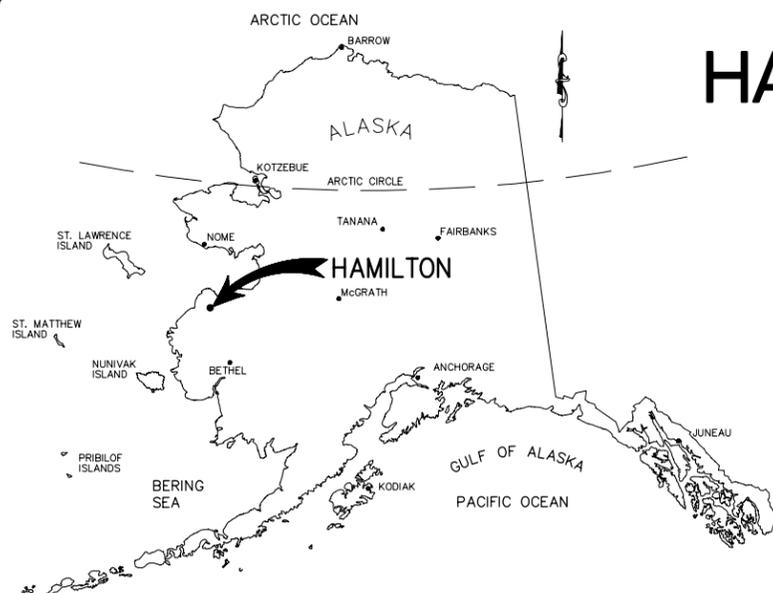


STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	3	32 N	78 W	SEWARD	2016

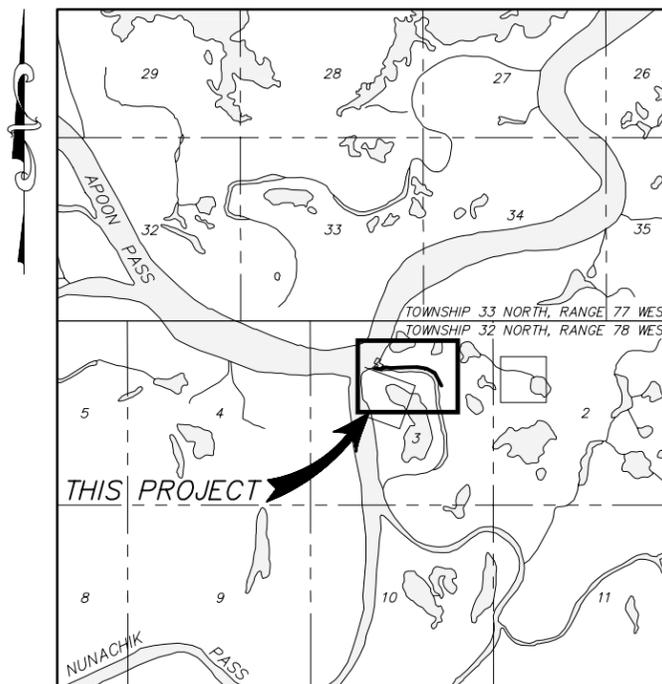
HAMILTON CEMETERY ACCESS BOARDROAD

ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS HAMILTON, ALASKA



PROJECT LOCATION MAP

PROJECT SUMMARY					
NAME OF ROAD SEGMENT	STATION RANGE	TTP ROUTE NUMBER	WIDTH OF PROJECT		LENGTH OF PROJECT ROAD SURFACE
			BOARDROAD	RIGHT-OF WAY	
CEMETERY ACCESS BOARDROAD	STA. 0+00.00 TO 22+00.00	1001/1003/1008	10'	20'	2,200.00'



VICINITY MAP

APPROXIMATE SCALE: 1" = 1/2 MILE
SOURCE MAP: USGS QUADRANGLE
KWIGUK (0-4) ALASKA

INDEX OF SHEETS	
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A.1	TITLE SHEET
A.2	GENERAL NOTES, LEGEND, ABBREVIATIONS AND SUMMARY OF QUANTITIES
A.3	PLAN SHEET KEY MAP
B	SURVEY CONTROL
B.1	SURVEY CONTROL DIAGRAM
B.2	SURVEY CONTROL MONUMENTATION AND POINT TABLE
B.3	PI DIAGRAM AND TANGENT TABLE
D	BOARDROAD DETAILS
D.1-D.3	BOARDROAD DETAILS
D.4	STRUCTURAL FASTENING DETAILS
D.5	BOARDROAD HANDRAIL DETAILS
D.6	BOARDROAD LANDING DETAILS
L	PLAN/PROFILE
L.1-L.2	PLAN AND PROFILE

SPECIFICATIONS:

ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2015 EDITION (U.S. CUSTOMARY UNITS)
ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS, STANDARD SPECIFICATIONS FOR CONSTRUCTION 2015 EDITION

TYPE OF CONSTRUCTION:

BOARDROAD CONSTRUCTION

NATIVE VILLAGE OF HAMILTON

ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS



Z:\AA_Jobs\ovp hamilton cemetery access-1541.m-12\iteration 4 (100%)\master\A01-A02 (legend and notes).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

HAMILTON CEMETERY ACCESS BOARDROAD
HAMILTON, ALASKA

TITLE SHEET

DESIGNED BY: BLP
DRAWN BY: JBK/JCS
APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: AS SHOWN

SHEET NO.
A.1

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	31	2 N	73 W	SEWARD	2016

GENERAL:

- EXISTING GROUND CONTOURS ARE BASED ON THE RODNEY P. KINNEY ASSOCIATES, INC. SURVEY PERFORMED IN SEPTEMBER 2012. THE CONTRACTOR SHALL VERIFY ALL SITE AND DESIGN CONDITIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE OWNER OF ANY CONFLICTS BEFORE THE WORK IS STARTED. ANY CONFLICTS IDENTIFIED AFTER CONSTRUCTION BEGINS AND RESULTING WORK REQUIRED TO RESOLVE THE CONFLICT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL VERIFY SITE CONDITIONS, DIMENSIONS, AND DETAILS PRIOR TO THE START OF CONSTRUCTION. IF ANY DISCREPANCIES AND/OR UNKNOWN CONDITIONS WHICH AFFECT THE PROJECT ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER. THE CONTRACTOR MAY BE REQUIRED TO SUBMIT MINOR LAYOUT CHANGES IN THE FIELD, SUBJECT TO APPROVAL BY THE ENGINEER.
- ALL CONSTRUCTION SHALL CONFORM TO THE ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS (AVCP) TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2010 EDITION); ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2015 EDITION) WITH MODIFICATIONS; AND THE SPECIAL PROVISIONS. FOR ANY DISCREPANCIES WITH CONSTRUCTION DOCUMENTS SEE SPECIFICATION SECTION 105-1.04 FOR RESOLUTION, ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH U.S. ENVIRONMENTAL PROTECTION AGENCY, ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION, AND STATE AND FEDERAL OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.
- THE LIMIT OF WORK FOR THE NEW CONSTRUCTION SHALL BE DESIGNED AT THE LIMIT OF FILL OR EXCAVATION AND WITHIN EXISTING RIGHT-OF-WAYS/EASEMENTS UNLESS OTHERWISE SHOWN. THE CONTRACTOR SHALL NOT WORK OUTSIDE THE LIMITS OF WORK WITHOUT PRIOR APPROVAL BY AVCP AND THE CITY OF HAMILTON. THE CONTRACTOR IS SOLELY LIABLE FOR ALL DAMAGES AND RESTITUTION FOR ANY DISTURBANCE OUTSIDE THE WORK LIMITS. THIS INCLUDES INDEMNIFICATION OF RODNEY P. KINNEY ASSOCIATES, INC., AVCP, THE NATIVE VILLAGE OF HAMILTON, AND THE CITY OF HAMILTON FROM LITIGATION ARISING FROM THE CONTRACTOR'S ACTIONS.
- THE CONTRACTOR SHALL SUBMIT A QUALITY CONTROL PLAN IN ACCORDANCE WITH SPECIFICATION SECTION 106-1.03.
- IF ANY ARCHAEOLOGICAL, HISTORICAL, OR CULTURAL RESOURCES ARE ENCOUNTERED WITHIN THE PROJECT AREA, INCLUDING ANY ARTIFACTS, FEATURES, OR HUMAN REMAINS, THE CONTRACTOR SHALL IMMEDIATELY CEASE WORK IN THE AREA AND NOTIFY AVCP OF THE FIND. AVCP WILL NOTIFY THE CONTRACTOR WHEN OPERATIONS MAY RESUME AT THE DISCOVERY SITE.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL SIGNS, BARRICADES AND WARNING LIGHTS AND OTHER PROTECTIVE DEVICES NECESSARY FOR SAFETY.
- THE SPECIFICATION OF A NAME BRAND PRODUCT, OR EQUAL, IS DONE TO ESTABLISH THE LEVEL OF QUALITY OF MATERIALS AND EQUIPMENT REQUIRED AND IS NOT A PRODUCT ENDORSEMENT. SUBMIT SUBSTITUTIONS IN WRITING FOR REVIEW AND APPROVAL, UNLESS "NO SUBSTITUTIONS" IS SPECIFIED.

PLAN LEGEND

EXISTING	PROPOSED	
		BUILDING
		BOARDROAD
		CENTERLINE OF BOARDROAD/GRAVEL ROAD
		CONTOUR (MAJOR)
		CONTOUR (MINOR)
		EASEMENT
		GRAVE SITE
		HANDRAIL
		NATIVE ALLOTMENT
		PROPERTY LINE
		SECTION LINE
		WATER
		3-1/4" BRASS CAP MONUMENT
		3-1/4" ALUMINUM CAP MONUMENT
		2" OR 3" ALUMINUM CAP

ABBREVIATIONS

ADOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	N/A	NOT APPLICABLE
AVCP	ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS	NO.	NUMBER
C OR CL	CENTERLINE	NTS	NOT TO SCALE
DIA./ø	DIAMETER	O.C.	ON CENTER
E	EASTING/EAST	PI	POINT OF INTERSECTION
ELEV./EL	ELEVATION	R	RECORD
FT	FEET	R.O.W.	RIGHT-OF-WAY
LB	POUND	S	SOUTH
M	MEASURED	SEC	SECTION
MAX.	MAXIMUM	STA.	STATION
MIN.	MINIMUM	TBM	TEMPORARY BENCH MARK
MPH	MILES PER HOUR	TYP.	TYPICAL
N	NORTHING/NORTH	V	VERTICAL
		W	WEST

ESTIMATE OF QUANTITIES*

PAY ITEM NUMBER	DESCRIPTION	PAY UNIT	ESTIMATED QUANTITY
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640(4)	WORKERS MEALS AND LODGING	LUMP SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
803(1)	BOARDROAD (10' WIDE)	LINEAR FOOT	2,200

* ALL QUANTITIES SHOWN WERE USED TO DEVELOP THE ENGINEER'S ESTIMATE. AVCP OR RPKA ASSUME NO RESPONSIBILITY FOR SUCH QUANTITIES OR ANY INCIDENTAL INFORMATION THAT MAY BE CONSTRUCTED AS QUANTITY OF WORK OR MATERIALS.



Z:\AA-Jobs\ovp hamilton cemetery access-1541.m-12\iteration 4 (100%)\master\A01-A02 (legend and notes).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

GENERAL NOTES, LEGEND,
ABBREVIATIONS AND
SUMMARY OF QUANTITIES

DESIGNED BY: BLP
DRAWN BY: JBK/JCS
APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: N/A

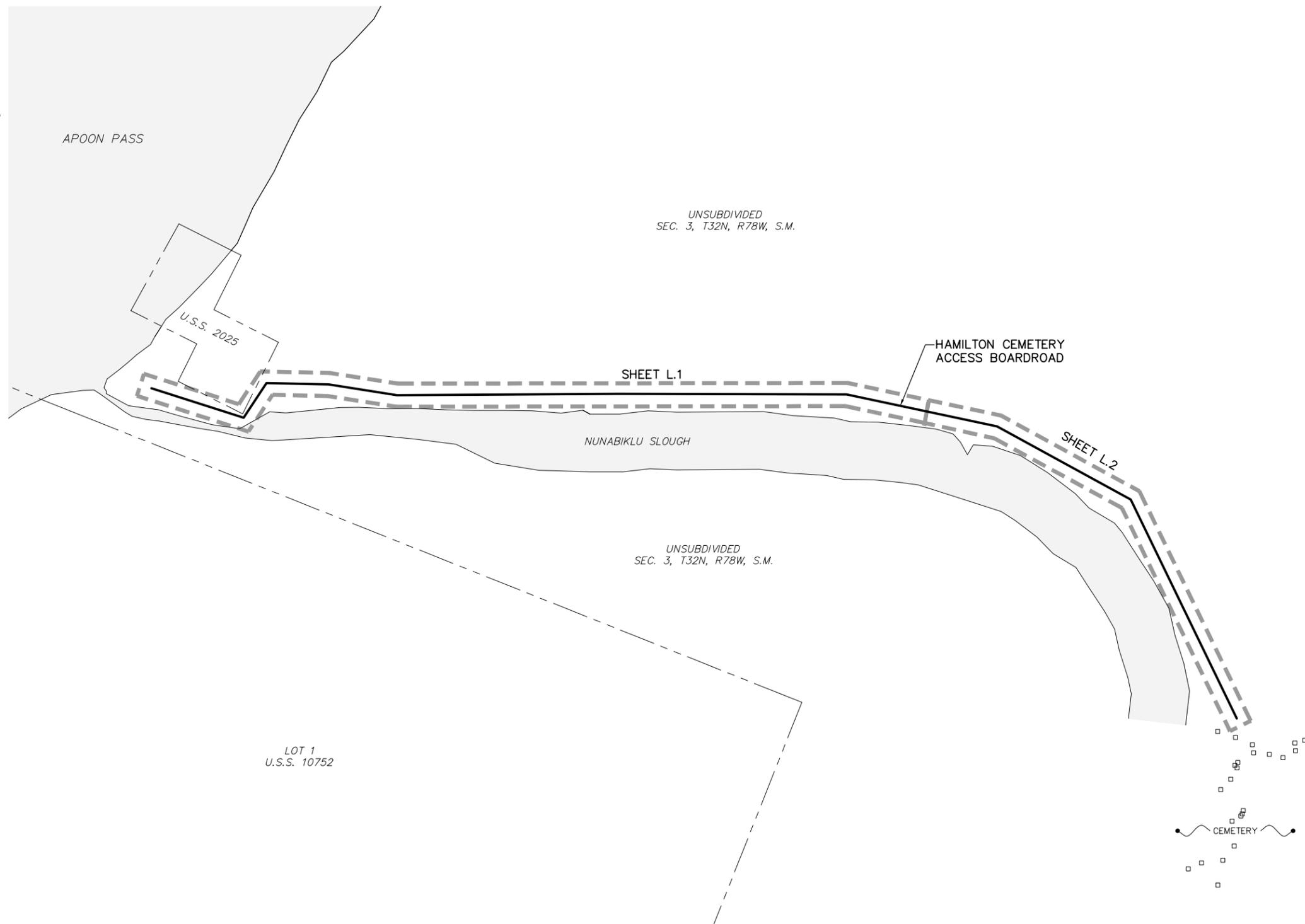
SHEET NO.

A.2

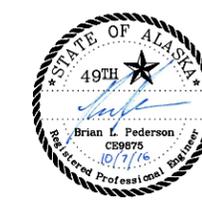
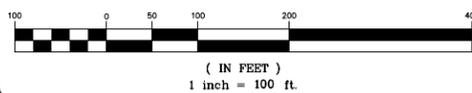
STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	31	2 N	73 W	SEWARD	2016

LEGEND
(THIS SHEET ONLY)

- — — — — PROPERTY LINE
- — — — — PROPOSED CENTERLINE
- - - - - SHEET LIMITS
- GRAVE SITE



GRAPHIC SCALE



Z:\AA_Jobs\ovp hamilton cemetery access-1541.m-12\iteration 4 (100%)\master\A03 (key map).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

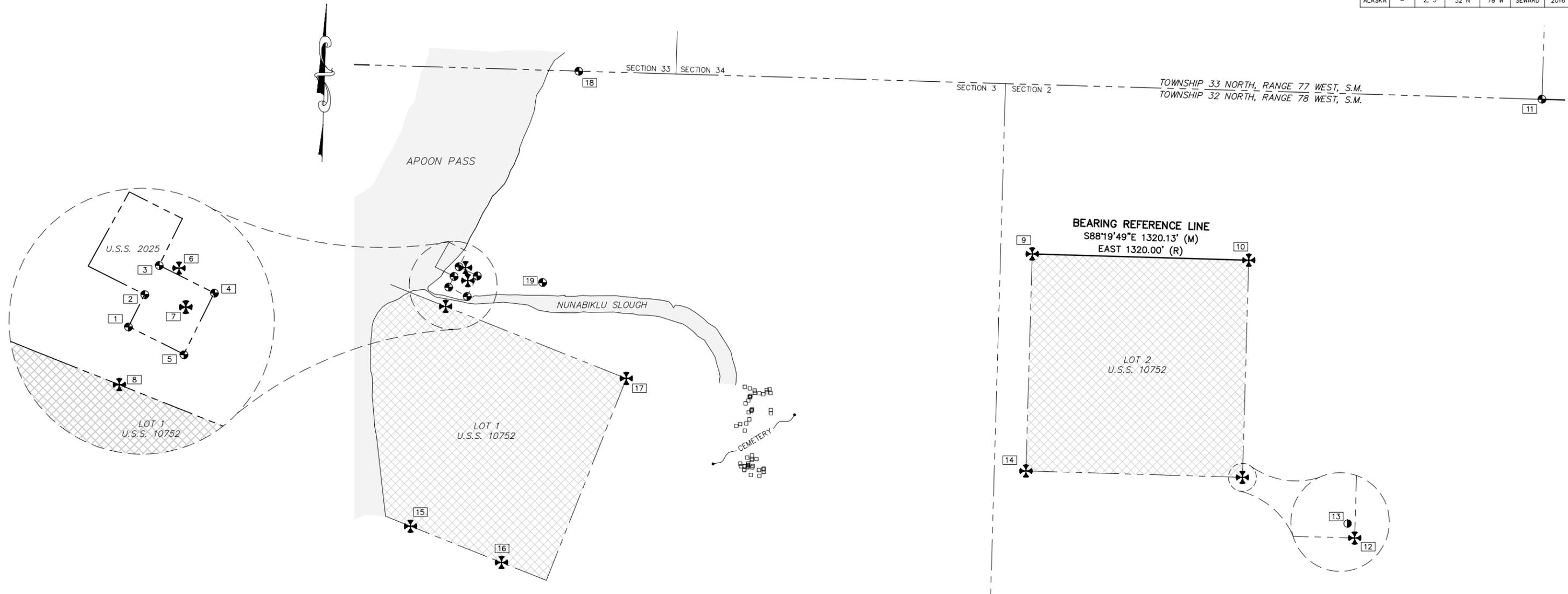
HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

PLAN SHEET
KEY MAP

DESIGNED BY: BLP
DRAWN BY: JBK/JCS
APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: 1"=100'

SHEET NO.
A.3

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	2, 3	32 N	78 W	SEWARD	2016



LEGEND
(THIS SHEET ONLY)

- 3-1/4" BRASS CAP
- 3-1/4" ALUMINUM CAP
- 2" COPPER WELD
- CONTROL POINT NUMBER
- BEARING REFERENCE LINE
- PROPERTY LINE
- SECTION LINE
- NATIVE ALLOTMENTS
- (M) MEASURED
- (R) RECORD PER U.S.S. 10752

BASIS OF HORIZONTAL AND VERTICAL CONTROL

THE BASIS OF BEARING ON THIS PROJECT IS GPS NORTH, DETERMINED BY A HIGH PRECISION GPS SURVEY USING TRIMBLE R8 RECEIVERS DIFFERENTIALLY CORRECTED AND PROCESSED USING TRIMBLE BUSINESS CENTER 2 SOFTWARE. A BEARING REFERENCE LINE IS SHOWN ON THIS SURVEY CONTROL SHEET TO ENABLE CALIBRATION TO THE PROJECT BASIS.

PROJECT COORDINATES WERE ESTABLISHED USING THE ONLINE POSITIONING USER SERVICE (OPUS) TO PERFORM A LEAST SQUARES ADJUSTMENT OF CONTROL POINTS TO THE CORS NETWORK.

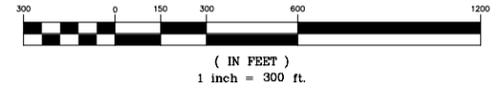
HORIZONTAL COORDINATES ARE IN NAD 83, ALASKA STATE PLANE, ZONE 7, FEET.

ELEVATIONS ARE IN NAVD 88, COMPUTED USING ALASKA GEOID12.

CORS BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE
DL6420	AB08 MEKORYUK__AK2008 CORS ARP	60° 23' 05.407" N	166° 12' 03.003" W
DK4091	BET1 BETHEL WAAS CORS ARP	60° 47' 16.508" N	161° 50' 30.123" W
DL6423	AB11 NOME_ANVILAK2006 CORS ARP	64° 33' 52.198" N	165° 22' 24.357" W

GRAPHIC SCALE



Z:\AA_Jobs\ovp hamilton cemetery access-1541.m-12\iteration 4 (100%)\master\B01 (survey control diagram).dwg

REV.	DATE	DESCRIPTION	BY



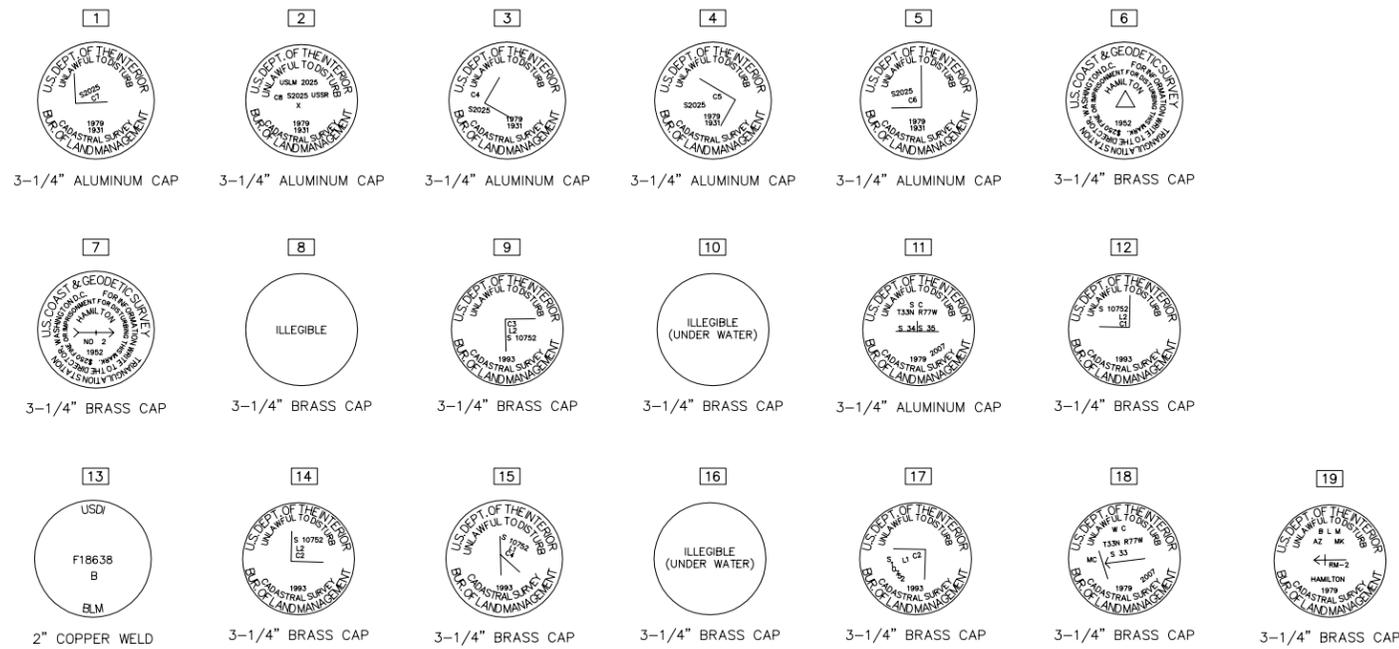
ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

SURVEY CONTROL
DIAGRAM

DESIGNED BY: CEK
DRAWN BY: JBK/JCS
APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: 1"=300'

SHEET NO.
B.1



SURVEY CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	3254953.698	1324319.420	12.77'	3-1/4" ALUMINUM CAP POE
2	3255019.156	1324352.445	15.68'	3-1/4" ALUMINUM CAP
3	3255078.158	1324381.927	13.98'	3-1/4" ALUMINUM CAP POE
4	3255022.214	1324493.873	14.40'	3-1/4" ALUMINUM CAP POE
5	3254897.322	1324432.033	11.67'	3-1/4" ALUMINUM CAP
6	3255072.904	1324422.080	14.56'	3-1/4" BRASS CAP POE
7	3254993.748	1324435.866	14.98'	3-1/4" BRASS CAP
8	3254836.779	1324300.795	11.28'	3-1/4" BRASS CAP
9	3255156.121	1327875.675	19.83'	3-1/4" BRASS CAP
10	3255117.655	1329195.240	16.43'	3-1/4" BRASS CAP
11	3256096.731	1330982.007	18.43'	3-1/4" BRASS CAP
12	3253798.040	1329156.623	18.45'	3-1/4" BRASS CAP
13	3253800.194	1329155.552	17.84'	2" COPPER WELD POE
14	3253836.645	1327837.163	20.55'	3-1/4" BRASS CAP
15	3253501.182	1324086.478	12.46'	3-1/4" BRASS CAP
16	3253280.807	1324641.315	10.56'	3-1/4" BRASS CAP
17	3254399.064	1325401.768	12.61'	3-1/4" BRASS CAP
18	3256266.488	1325112.516	12.88'	3-1/4" ALUMINUM CAP
19	3254982.243	1324891.743	13.75'	3-1/4" ALUMINUM CAP POE

Z:\AA_Jobs\ovp_hamilton_cemetery_access-1541.m-12\iteration 4 (100%)\master\B02 (monuments).dwg



REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

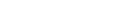
SURVEY CONTROL
MONUMENTATION
AND POINT TABLE

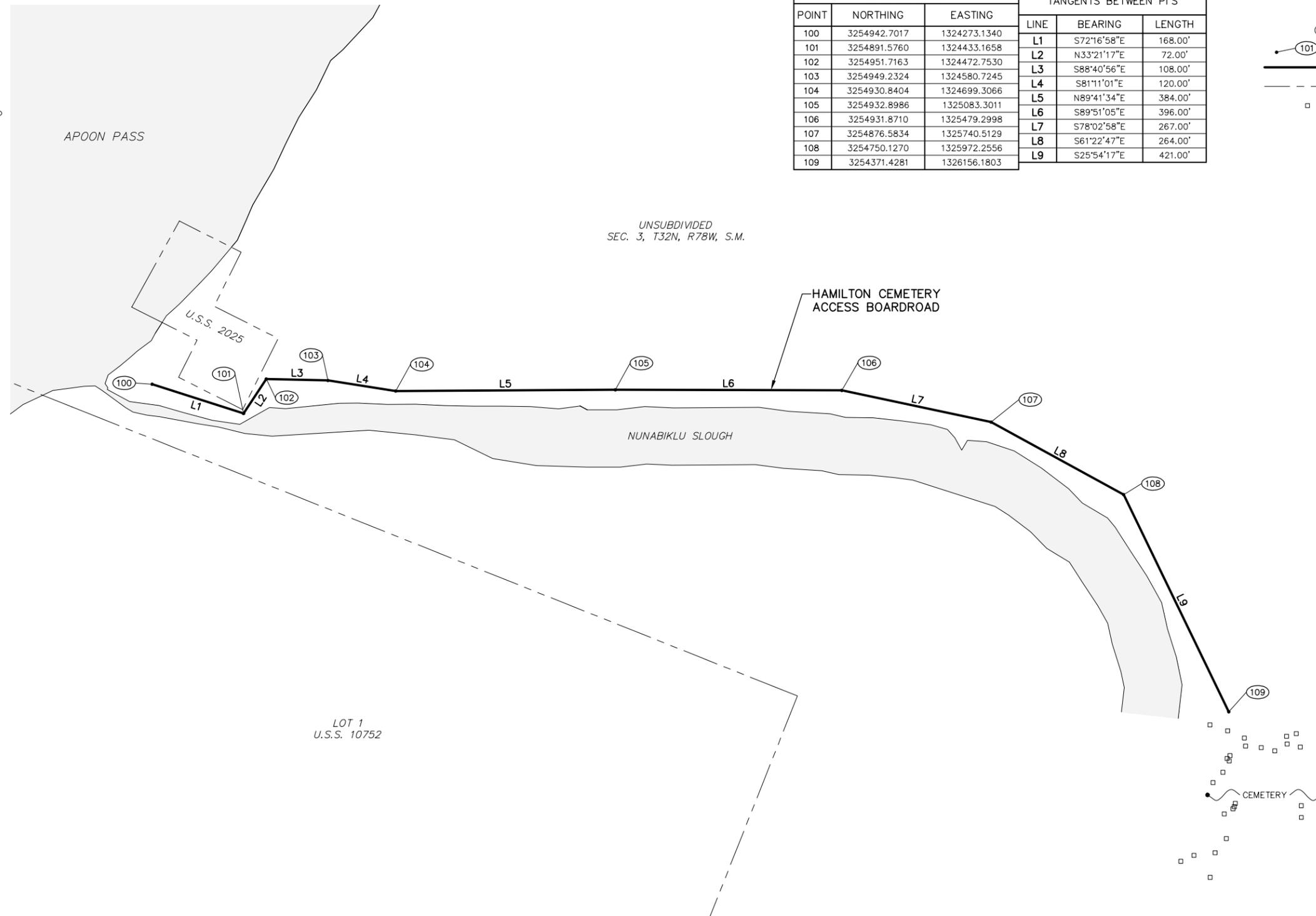
DESIGNED BY: CEK
DRAWN BY: JBK
APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: N/A

SHEET NO.
B.2

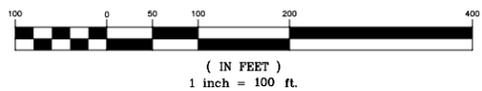
PI AND TANGENT TABLE					
POINT	PI COORDINATE		TANGENTS BETWEEN PI'S		
	NORTHING	EASTING	LINE	BEARING	LENGTH
100	3254942.7017	1324273.1340	L1	S72°16'58"E	168.00'
101	3254891.5760	1324433.1658	L2	N33°21'17"E	72.00'
102	3254951.7163	1324472.7530	L3	S88°40'56"E	108.00'
103	3254949.2324	1324580.7245	L4	S81°11'01"E	120.00'
104	3254930.8404	1324699.3066	L5	N89°41'34"E	384.00'
105	3254932.8986	1325083.3011	L6	S89°51'05"E	396.00'
106	3254931.8710	1325479.2998	L7	S78°02'58"E	267.00'
107	3254876.5834	1325740.5129	L8	S61°22'47"E	264.00'
108	3254750.1270	1325972.2556	L9	S25°54'17"E	421.00'
109	3254371.4281	1326156.1803			

LEGEND
(THIS SHEET ONLY)

-  PI CALLOUT
-  CENTERLINE TANGENTS
-  PROPERTY LINE
-  GRAVE SITE



GRAPHIC SCALE



Z:\AA_Jobs\ovp hamilton cemetery access-1541.m-12\iteration 4 (100%)\master\B03 (pi and tangent table).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

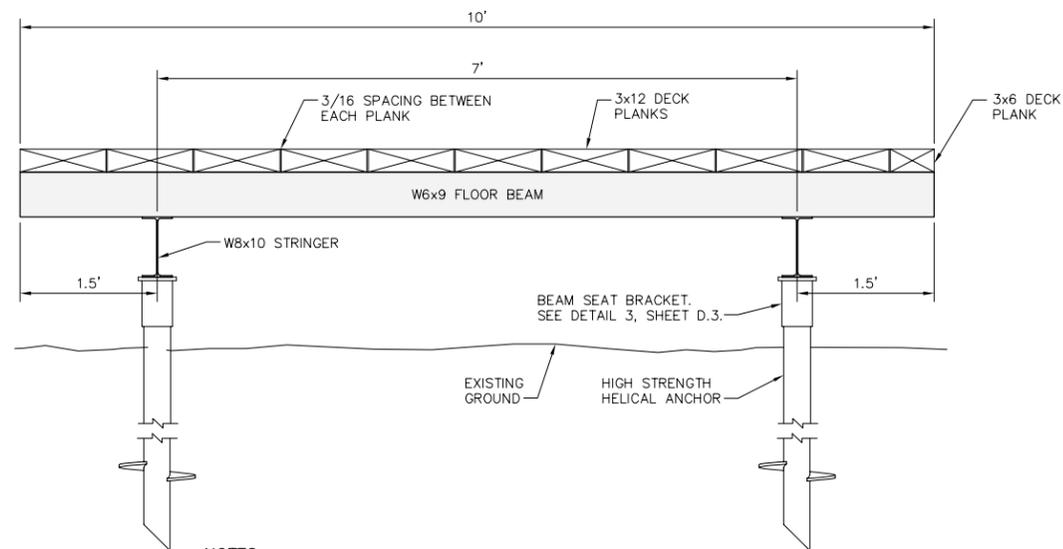
HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

PI DIAGRAM AND
TANGENT TABLE

DESIGNED BY: BLP
DRAWN BY: JCS
APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: 1"=100'

SHEET NO.
B.3

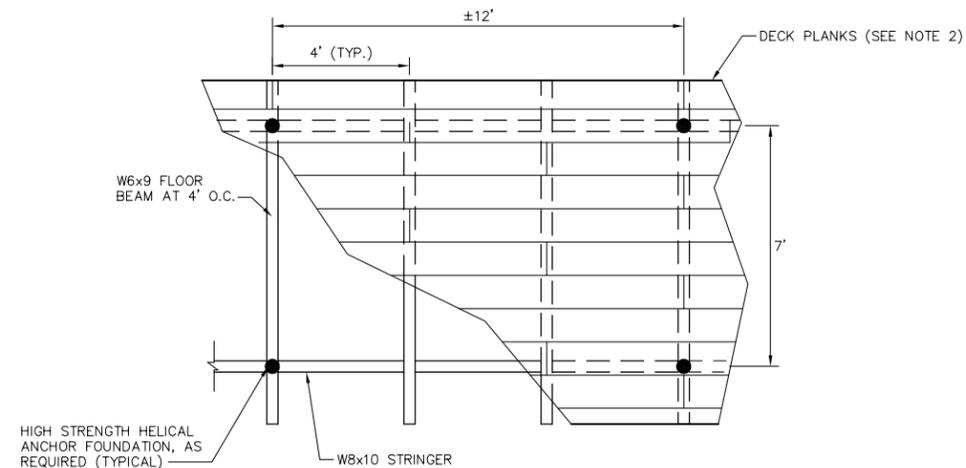
STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	31	2 N	73 W	SEWARD	2016



NOTES:

1. PLANK SPACING AND 3x6 EDGE PLANK SHOWN IN THIS DETAIL IS TYPICAL FOR ALL 10' BOARDROADS, BUT NOT SHOWN IN ALL DETAILS.
2. ADJUST PLANK SPACING SLIGHTLY, IF REQUIRED, TO ACHIEVE 10' OVERALL DECK WIDTH.
3. DECK PLANKS SHALL BE PRESSURE TREATED PER SPECIFICATION SECTION 803-2.01.
4. SEE SHEET D.4 FOR FASTENING DETAILS.
5. INSTALL 48" ORANGE DELINEATOR POST WITH BASE AT 12' ON CENTER BOTH SIDES U-LINE H-4466, OR EQUAL.

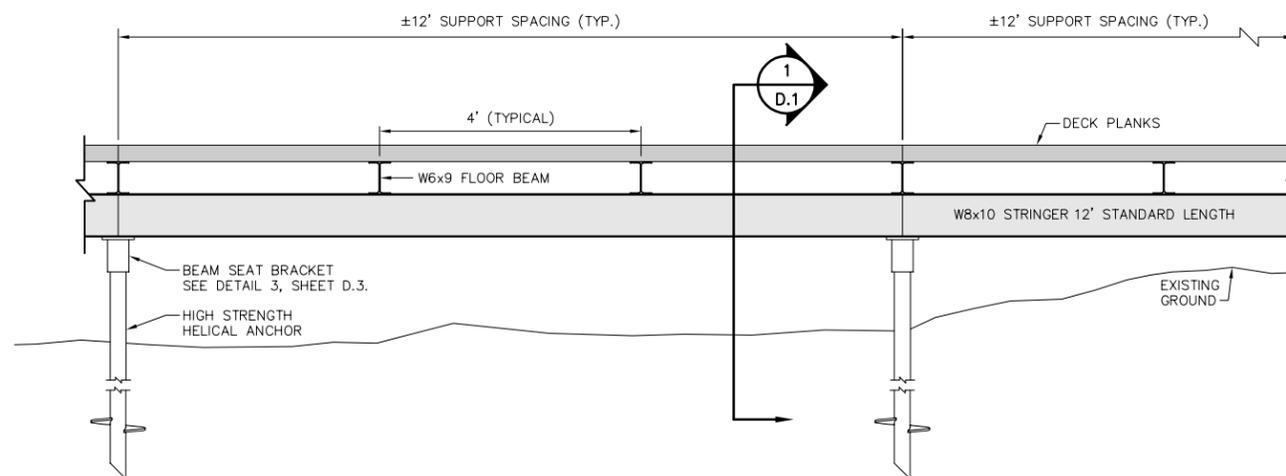
1 BOARDROAD (10') SECTION -NTS-



NOTES:

1. DISTANCE BETWEEN STRINGERS IS 7' FOR 10' WIDE BOARDROADS (SHOWN).
2. FOR A 10' WIDE BOARDROAD, DECK IS CONSTRUCTED WITH (10) 3"x12" PLANKS AND (1) 3x6 PLANK (SHOWN).
3. DECK PLANK END JOINTS WILL BE STAGGERED, AS SHOWN, TO PROVIDE THE FEWEST POSSIBLE JOINTS ON ANY GIVEN FLOOR BEAM.
4. SEE SHEET D.4 FOR FASTENING DETAILS.

2 BOARDROAD (10') PLAN -NTS-



NOTE:
SEE SHEET D.4 FOR FASTENING DETAILS.

3 BOARDROAD (10') PROFILE -NTS-



Z:\AA_Jobs\ovp hamilton cemetery access-1541.m-12\iteration 4 (100%)\master\DD1-D06 (boardwalk and road details).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

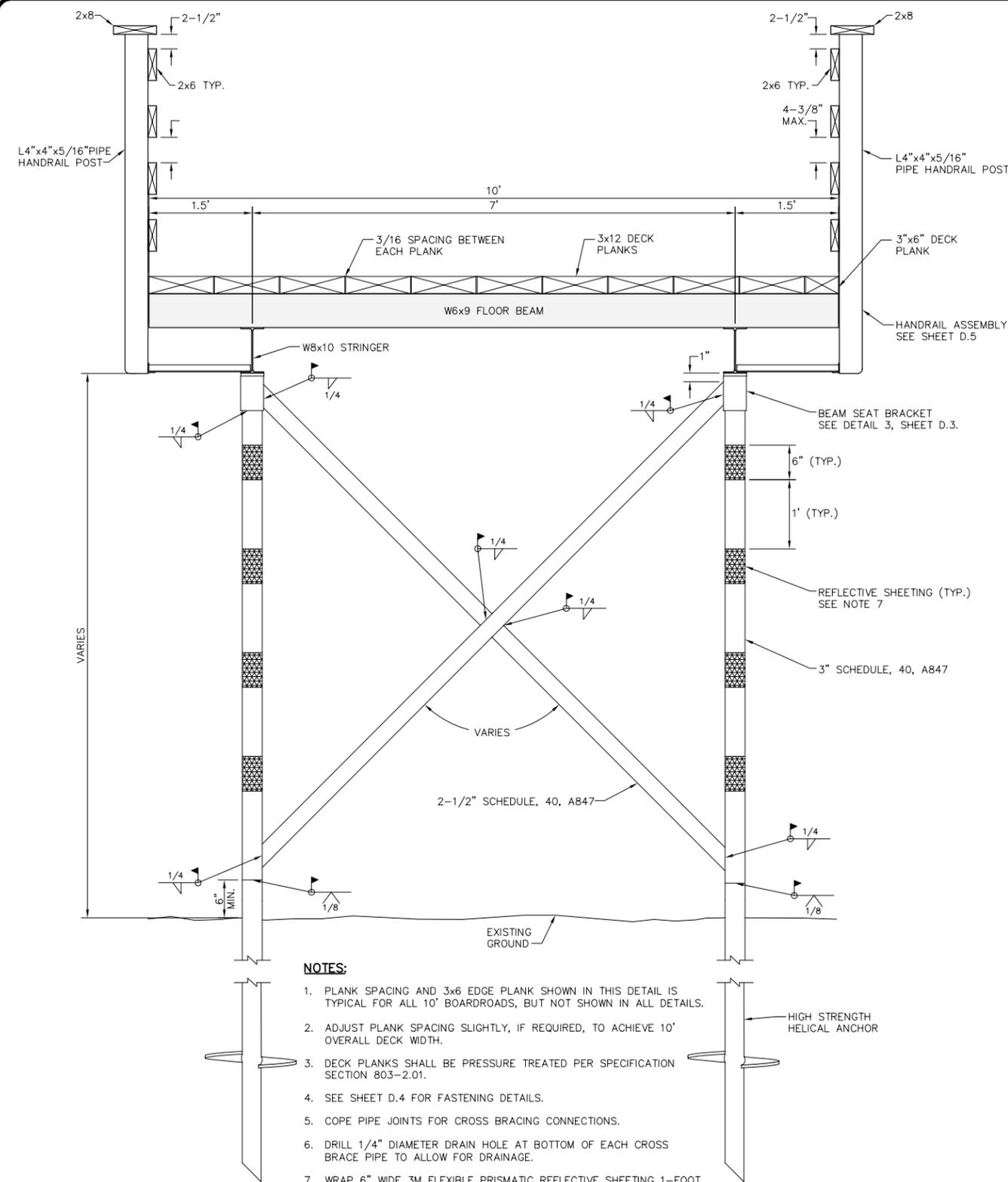
HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

BOARDROAD DETAILS

DESIGNED BY: BLP
DRAWN BY: JBK/JCS
APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: NTS

SHEET NO.
D.1

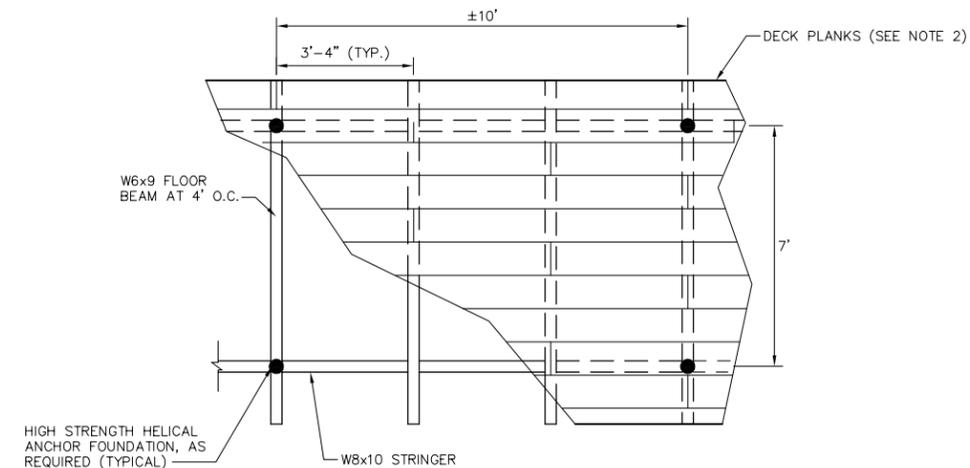
STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	31	2 N	73 W	SEWARD	2016



NOTES:

1. PLANK SPACING AND 3x6 EDGE PLANK SHOWN IN THIS DETAIL IS TYPICAL FOR ALL 10' BOARDROADS, BUT NOT SHOWN IN ALL DETAILS.
2. ADJUST PLANK SPACING SLIGHTLY, IF REQUIRED, TO ACHIEVE 10' OVERALL DECK WIDTH.
3. DECK PLANKS SHALL BE PRESSURE TREATED PER SPECIFICATION SECTION 803-2.01.
4. SEE SHEET D.4 FOR FASTENING DETAILS.
5. COPE PIPE JOINTS FOR CROSS BRACING CONNECTIONS.
6. DRILL 1/4" DIAMETER DRAIN HOLE AT BOTTOM OF EACH CROSS BRACE PIPE TO ALLOW FOR DRAINAGE.
7. WRAP 6" WIDE 3M FLEXIBLE PRISMATIC REFLECTIVE SHEETING 1-FOOT ON CENTER ON ALL VERTICAL SUPPORT POSTS.

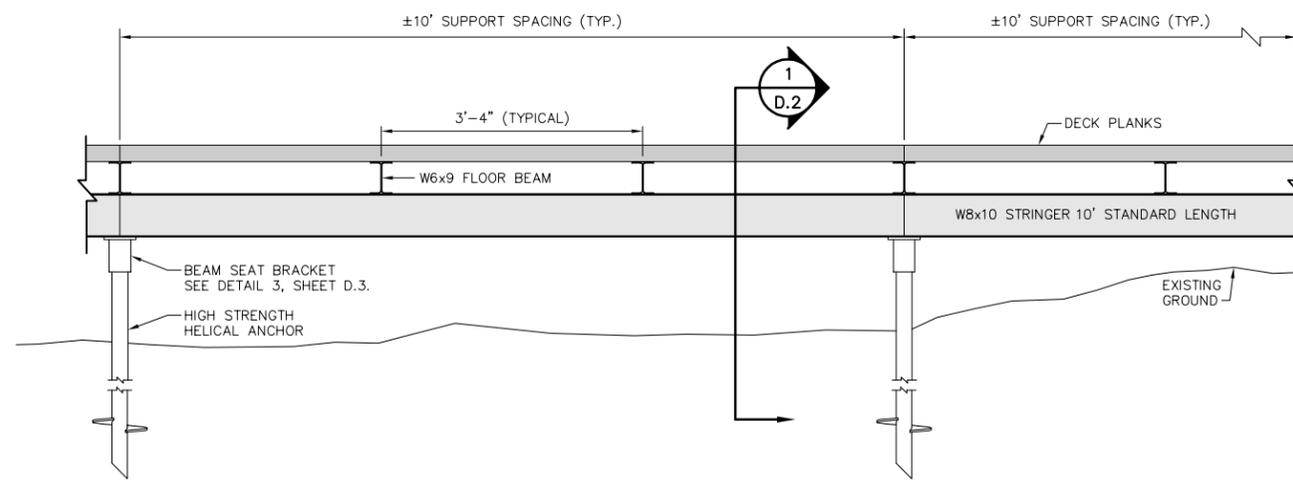
1
D.2 **BRACED BOARDROAD (10')**
SECTION
(STA. 21+00 TO 21+50) -NTS-



NOTES:

1. DISTANCE BETWEEN STRINGERS IS 7' FOR 10' WIDE BOARDROADS (SHOWN).
2. FOR A 10' WIDE BOARDROAD, DECK IS CONSTRUCTED WITH (10) 3"x12" PLANKS AND (1) 3"x6" PLANK (SHOWN).
3. DECK PLANK END JOINTS WILL BE STAGGERED, AS SHOWN, TO PROVIDE THE FEWEST POSSIBLE JOINTS ON ANY GIVEN FLOOR BEAM.
4. SEE SHEET D.4 FOR FASTENING DETAILS.

2
D.2 **BRACED BOARDROAD (10')**
PLAN
(STA. 21+00 TO 22+00) -NTS-



NOTE:

SEE SHEET D.4 FOR FASTENING DETAILS.

3
D.2 **BRACED BOARDROAD (10')**
PROFILE
(STA. 21+00 TO 22+00) -NTS-

Z:\AA-Jobs\ovp hamilton cemetery access-1541.m-12\iteration 4 (100%)\master\DD1-D06 (boardwalk and road details).dwg

REV.	DATE	DESCRIPTION	BY



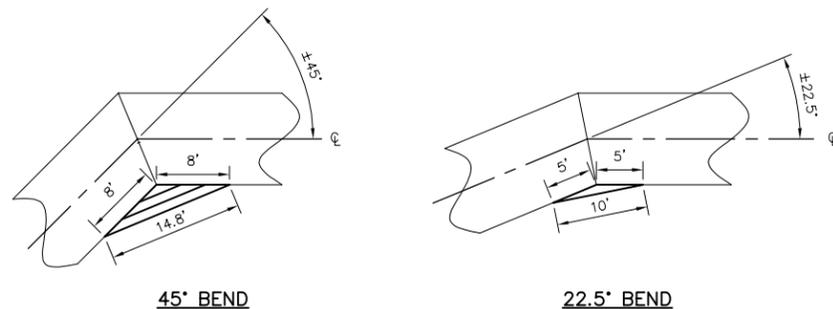
ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

BRACED BOARDROAD DETAILS

DESIGNED BY: BLP	SHEET NO. D.2
DRAWN BY: JBK/JCS	
APPROVED BY: BLP	
DATE: OCTOBER 07, 2016	
SCALE: NTS	

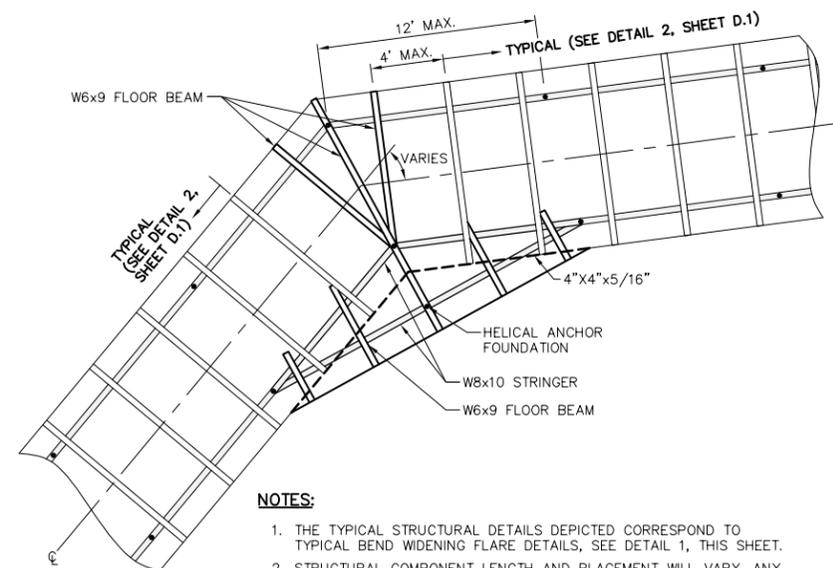




NOTES:

- WHERE HANDRAIL SECTIONS CROSSES, BEGINS, OR ENDS AT TYPICAL INTERSECTIONS, FULL HEIGHT HANDRAILS SHALL BE EXTENDED THROUGH THE BOARDROAD INTERSECTION FLARE AND A TRANSITION HANDRAIL SECTION INSTALLED ALONG THE INTERSECTING BOARDROAD.
- BENDS LESS THAN 22' DO NOT REQUIRE WIDENING FLARES.

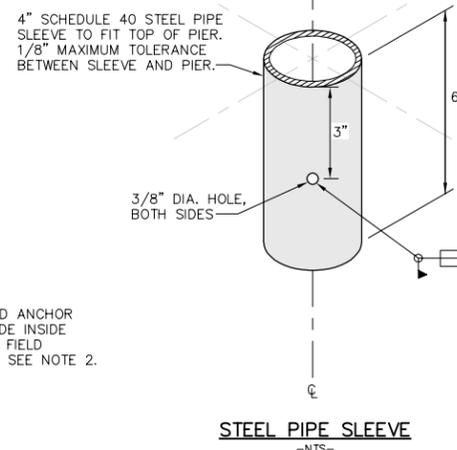
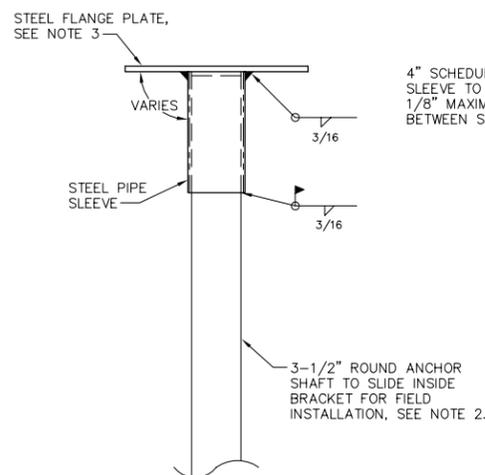
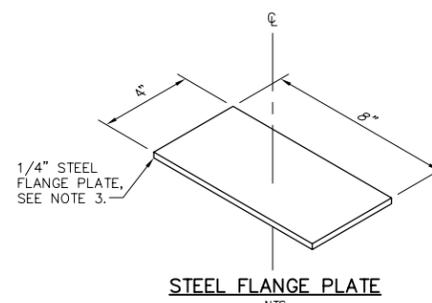
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D.3 **TYPICAL BEND WIDENING FLARE DETAILS** 1"=10'



NOTES:

- THE TYPICAL STRUCTURAL DETAILS DEPICTED CORRESPOND TO TYPICAL BEND WIDENING FLARE DETAILS, SEE DETAIL 1, THIS SHEET.
- STRUCTURAL COMPONENT LENGTH AND PLACEMENT WILL VARY. ANY INTERSECTIONS OR BENDS THAT REQUIRE WIDENING FLARES, IDENTIFIED DURING CONSTRUCTION, AND NOT NOTED ON THE PLANS, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- CUT STRINGERS AND BEAMS TO FIT AS REQUIRED, TYPICAL.

2
D.3 **TYPICAL BEND WIDENING FLARE STRUCTURAL LAYOUT** 1"=5'



NOTES:

- FLANGE PLATES AND PIPE SLEEVES SHALL BE PROVIDED FOR FIELD ASSEMBLY. THE NUMBER OF ADDITIONAL PLATES AND PIPE SLEEVES SHALL BE DETERMINED BY THE CONTRACTOR.
- BEAM SEAT BRACKET SHALL BE USED FOR CONNECTION TO SHAFTS. IF REQUIRED TRIM HELICAL ANCHOR SHAFT BY GRINDING THE TOP TO PROVIDE FOR SNUG FIT INSIDE STEEL PIPE SLEEVE.
- STEEL FLANGE PLATE BEAM SEAT SHALL BE BENT OR CLAMPED IN PLACE TO MATCH STRINGER SLOPE PRIOR TO WELDING TO STRINGERS. REFER TO SHEET D.4 FOR FASTENING DETAILS.
- ALL WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) 2011 STRUCTURAL WELDING CODE STEEL (D1.1).
- BEAM SEAT BRACKET STEEL SHALL BE WEATHERING (COR-TEN) STEEL PER ASTM A588 GRADE 50 FOR FLANGE PLATE AND ASTM A847 GRADE 50 FOR PIPE SLEEVE.
- SEE DETAIL 1, SHEET D.3 FOR STRUCTURAL STEEL FASTENING DETAILS.

3
D.3 **BEAM SEAT BRACKET** -NTS-



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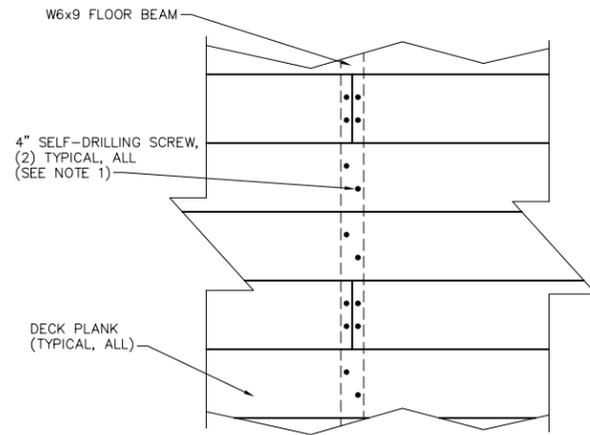
HAMILTON CEMETERY ACCESS BOARDROAD
HAMILTON, ALASKA

BOARDROAD DETAILS

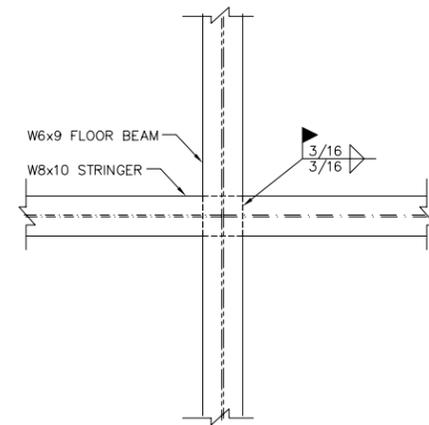
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APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: NTS

SHEET NO.
D.3

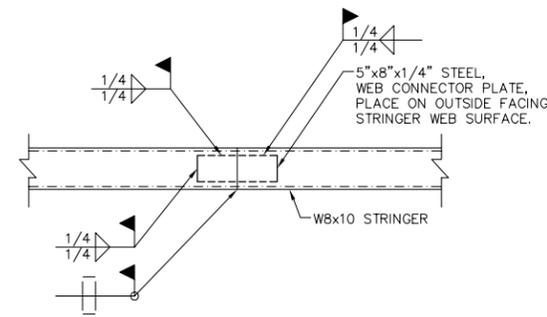
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ALASKA	-	31	2 N	73 W	SEWARD	2016



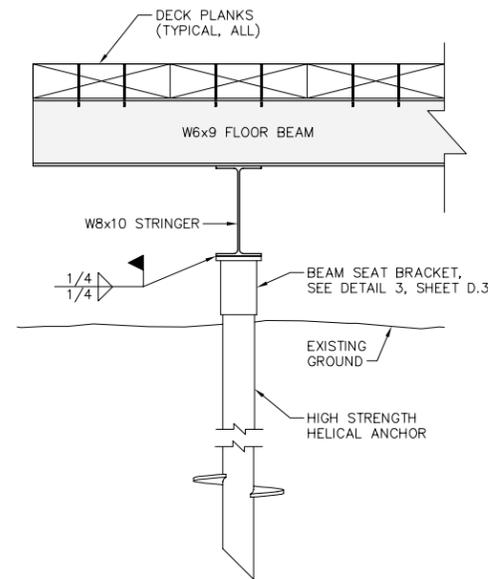
DECK PLANKS TO FLOOR BEAM CONNECTION



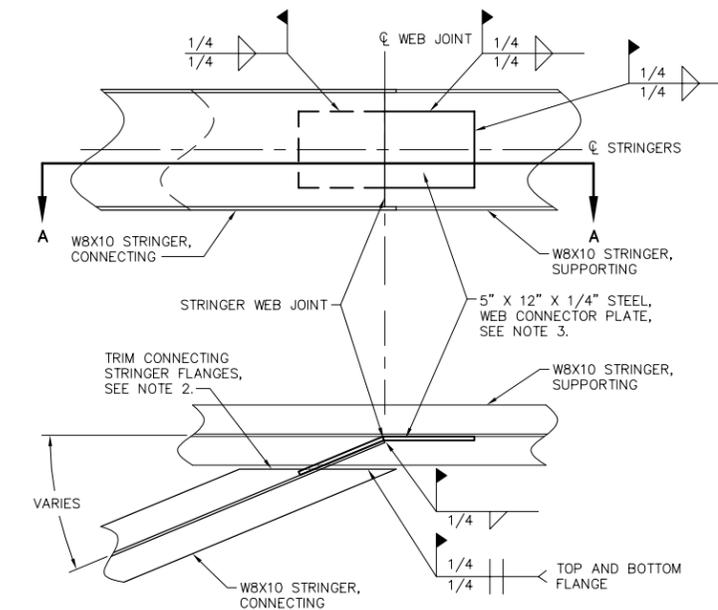
FLOOR BEAM TO STRINGER CONNECTION



END/END STRINGER TO STRINGER CONNECTION



STRINGER TO HELICAL ANCHOR CONNECTION



SECTION A-A

NOTES:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) 2006 STRUCTURAL WELDING CODE - STEEL (D1.1).
2. TRIM CONNECTING STRINGER FLANGES AS REQUIRED TO PROVIDE AN EVEN AND FLUSH FIT WITH THE SUPPORTING STRINGER FLANGES. CONNECTING STRINGER WEB SHALL EXTEND TO WITHIN 1/2" OF SUPPORTING STRINGER WEB.
3. WEB CONNECTOR PLATE SHALL BE ALIGNED/CENTERED WITH THE \bar{C} OF STRINGERS AND WEB JOINT. WEB CONNECTOR SHALL BE BENT TO PROVIDE FLUSH AND EVEN CONNECTION WITH BOTH STRINGER WEB SURFACES. WEB CONNECTOR SHALL BE WELDED TO THE INSIDE WEB SURFACE OF CONNECTING STRINGER AND THE OUTSIDE WEB SURFACE OF SUPPORTING STRINGER, AS SHOWN.

NOTES:

1. PLANK CONNECTION SCREWS - 4" SELF-DRILLING SCREWS, FASTENAL 1/4"28x4" UNSLOTTED HEX WASHER HEAD SELF-DRILLING SCREW #5 POINT EPOXY (SKU 0163769) OR APPROVED EQUAL. COUNTERSINK PLANK SCREW TO BE FLUSH WITH PLANK SURFACE. A MINIMUM OF (2) SCREWS SHALL BE USED PER PLANK CONNECTION.
2. WELDING SHALL BE THE PRIMARY MEANS OF FASTENING STRUCTURAL MEMBERS.
3. #10x5" CERAMIC-COATED SCREWS SHALL BE GRABBER TYPE XT II OR APPROVED EQUIVALENT. THIS SCREW SHALL BE USED ON ALL MUDSILLS, UNLESS OTHERWISE NOTED. SHALL BE COUNTERSUNK FLUSH WITH PLANK SURFACE.
4. ALL WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) 2006 STRUCTURAL WELDING CODE STEEL (D1.1).

1 FASTENING DETAILS PLAN VIEW -NTS-

2 ANGLED STRINGER TO STRINGER CONNECTION FASTENING DETAIL -NTS-



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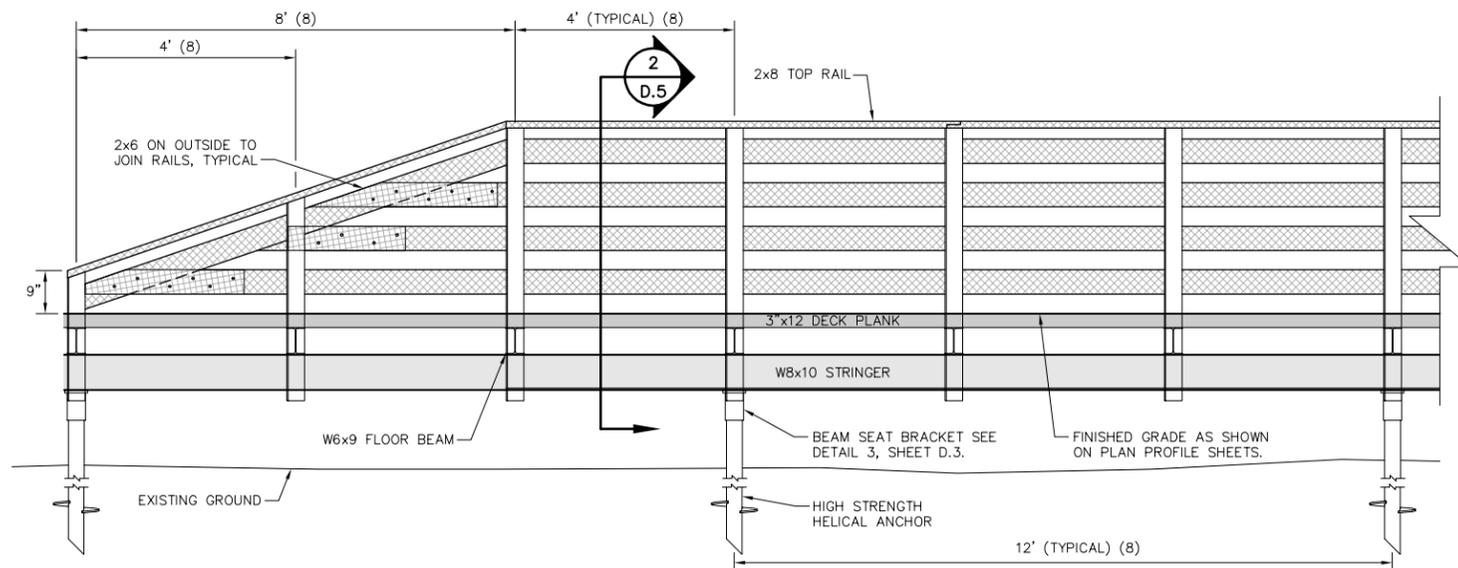
HAMILTON CEMETERY ACCESS BOARDROAD
HAMILTON, ALASKA

STRUCTURAL FASTENING DETAILS

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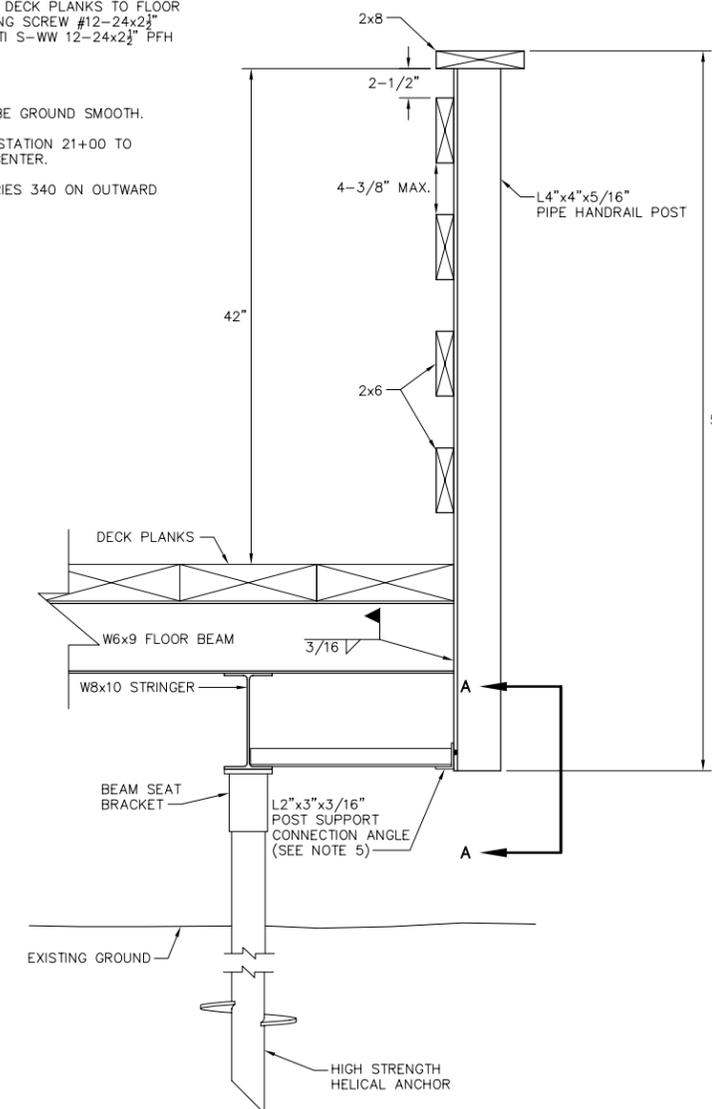
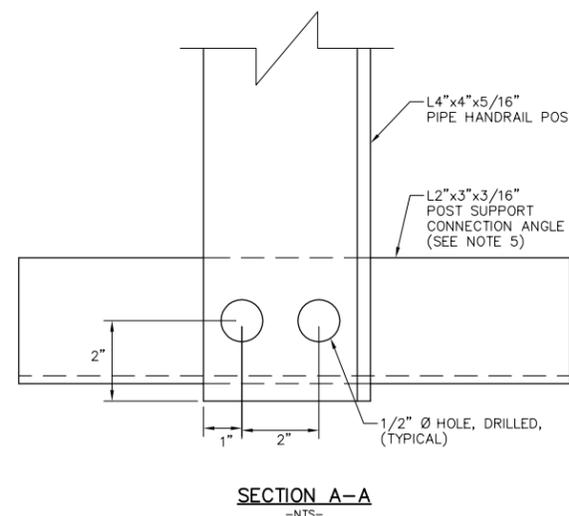
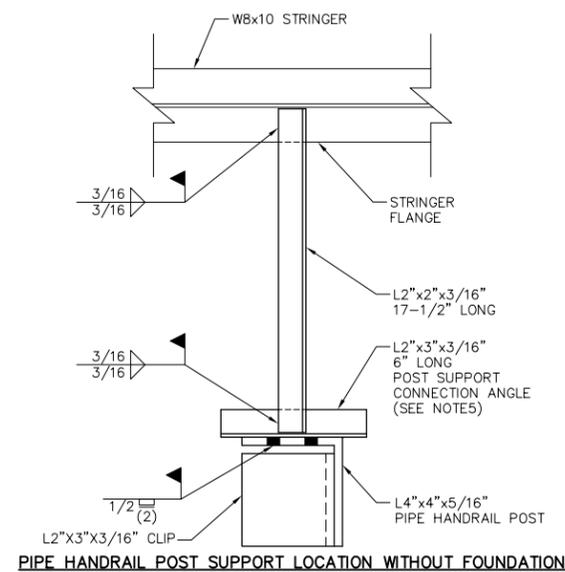
D.4



1 BOARDROAD HANDRAIL DETAIL
D.5 -NTS-

SHEET NOTES:

1. INSTALL RAILING ON ALL PORTIONS OF BOARDROAD ELEVATED MORE THAN 30 INCHES ABOVE GROUND LEVEL. RAILING SHALL START AND STOP AT A FLOOR BEAM.
2. ALL RAILS SHOULD BE CONSTRUCTED FROM 16' MATERIAL TO MINIMIZE THE NUMBER OF LAP JOINTS.
3. ALL RAIL JOINTS SHOULD OCCUR AT POST LOCATIONS, STAGGER JOINTS SO THAT NO MORE THAN 2 JOINTS OCCUR AT ONE POST.
4. ALL 3/16" STEEL TO 3/16" STEEL CONNECTIONS USE CORROSION RESISTANT SELF-DRILLING SCREW #12-24x1 1/4" HEX WASHER HEAD #5 POINT, (HILTI S-MD 12-24x1 1/4" HWH #5 KWIK-COTE OR APPROVED EQUIVALENT).
5. ALL WOOD TO STEEL CONNECTIONS OTHER THAN DECK PLANKS TO FLOOR BEAMS, USE CORROSION RESISTANT SELF-DRILLING SCREW #12-24x2 1/2" PHILLIPS FLAT HEAD #4 POINT WITH WINGS, (HILTI S-WW 12-24x2 1/2" PFH #4 WINGS OR APPROVED EQUIVALENT).
6. RAIL POSTS SHALL BE INSTALLED PLUMB.
7. SCREWS PROTRUDING FROM RAIL POSTS SHALL BE GROUND SMOOTH.
8. ADJUST DISTANCE TO 10' ON CENTER BETWEEN STATION 21+00 TO 22+00. POST SPACING REDUCED TO 3'-4" ON CENTER.
9. INSTALL 3M 4" LINEAR DELINEATION SYSTEM SERIES 340 ON OUTWARD FACING OF HANDRAILS, BOTH SIDES.



2 HANDRAIL POST DETAIL
D.5 -NTS-



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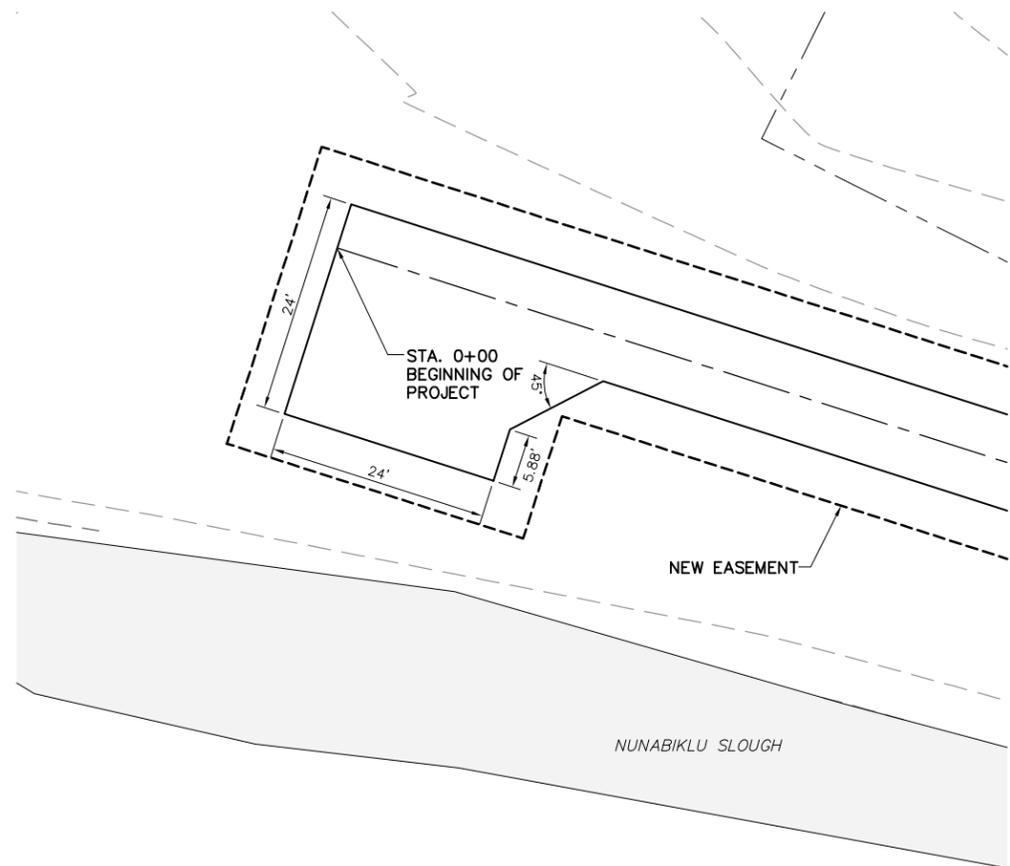
HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

BOARDROAD HANDRAIL DETAILS

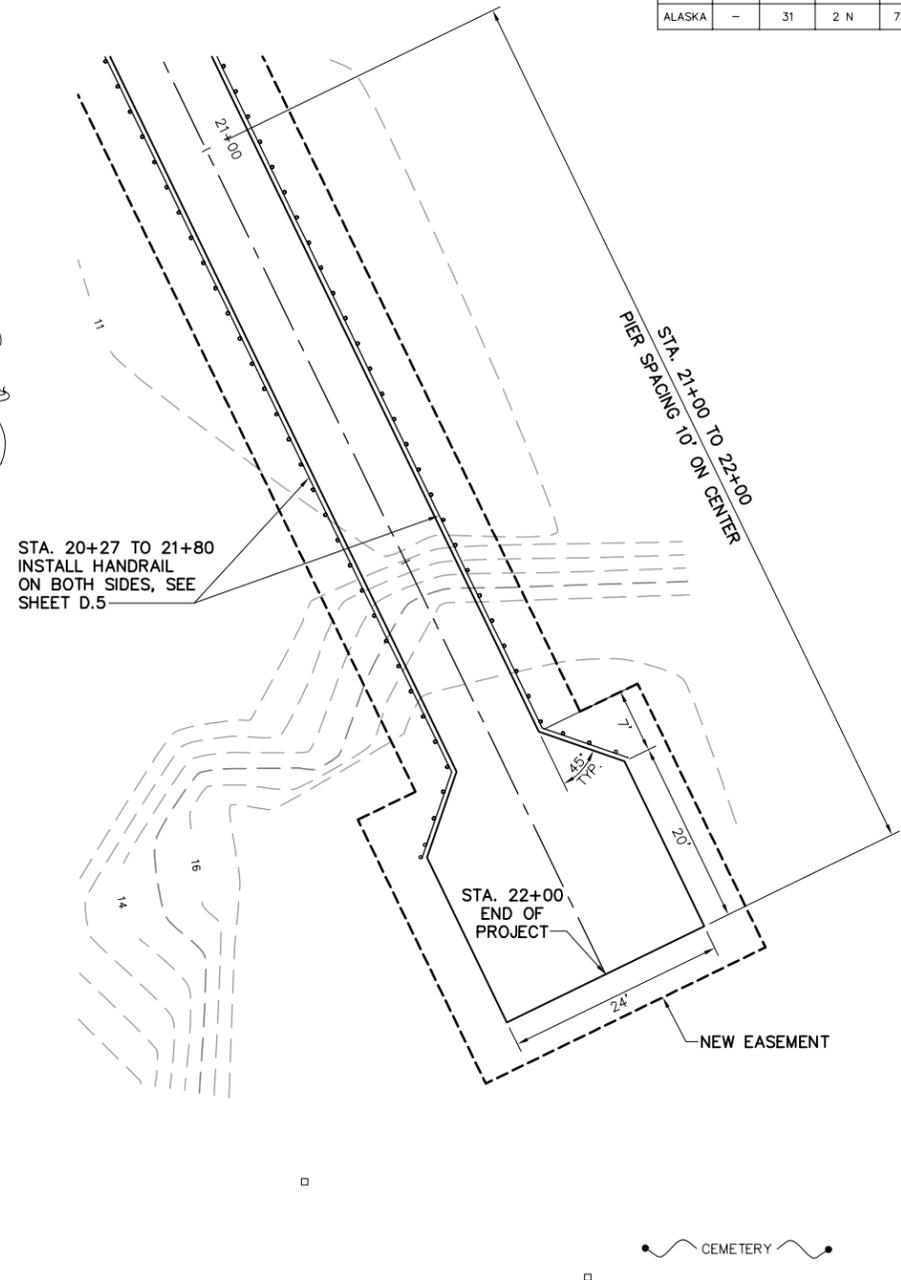
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SHEET NO.
D.5

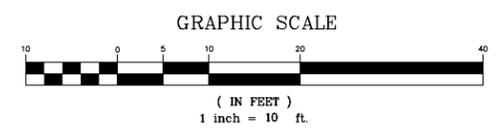
STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	31	2 N	73 W	SEWARD	2016



1
D.6 BOARDROAD LANDING
STATION 0+00 1"=10'



2
D.6 BOARDROAD LANDING
STATION 22+00 1"=10'



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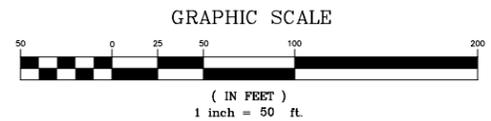
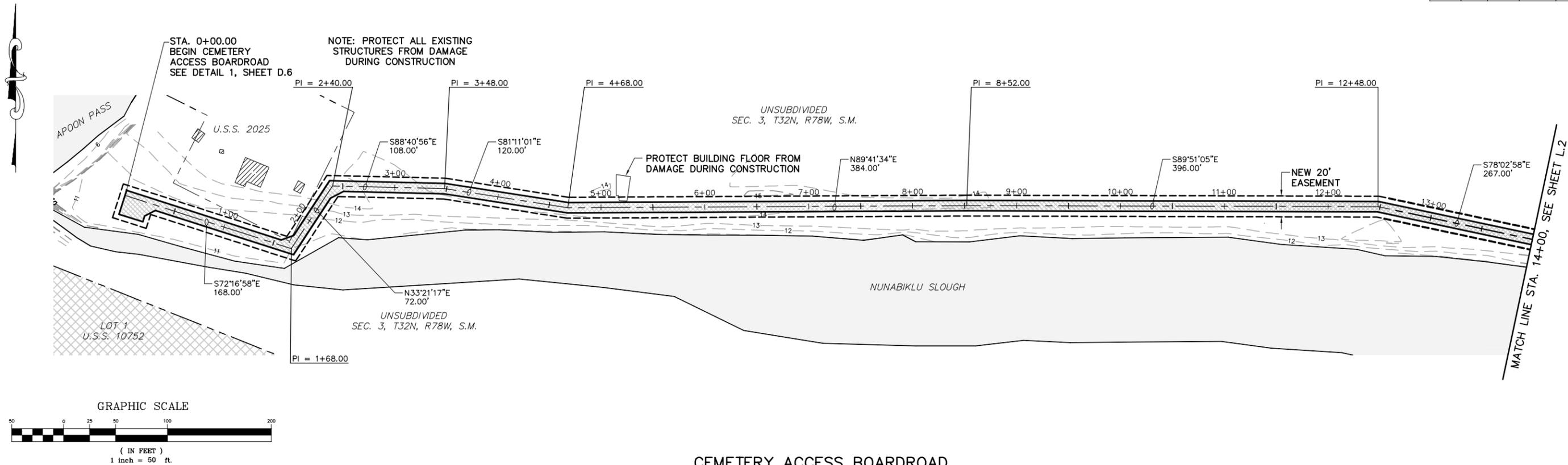
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HAMILTON, ALASKA

BOARDROAD LANDING DETAILS

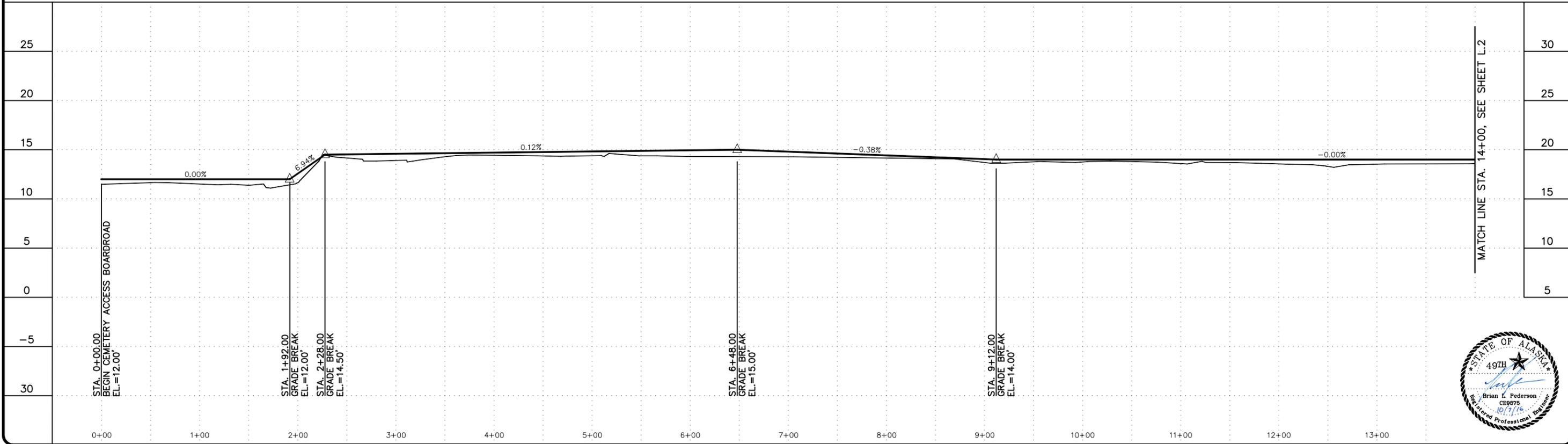
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D.6

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	3	T 32 N	R 78 W	SEWARD	2016



CEMETERY ACCESS BOARDROAD



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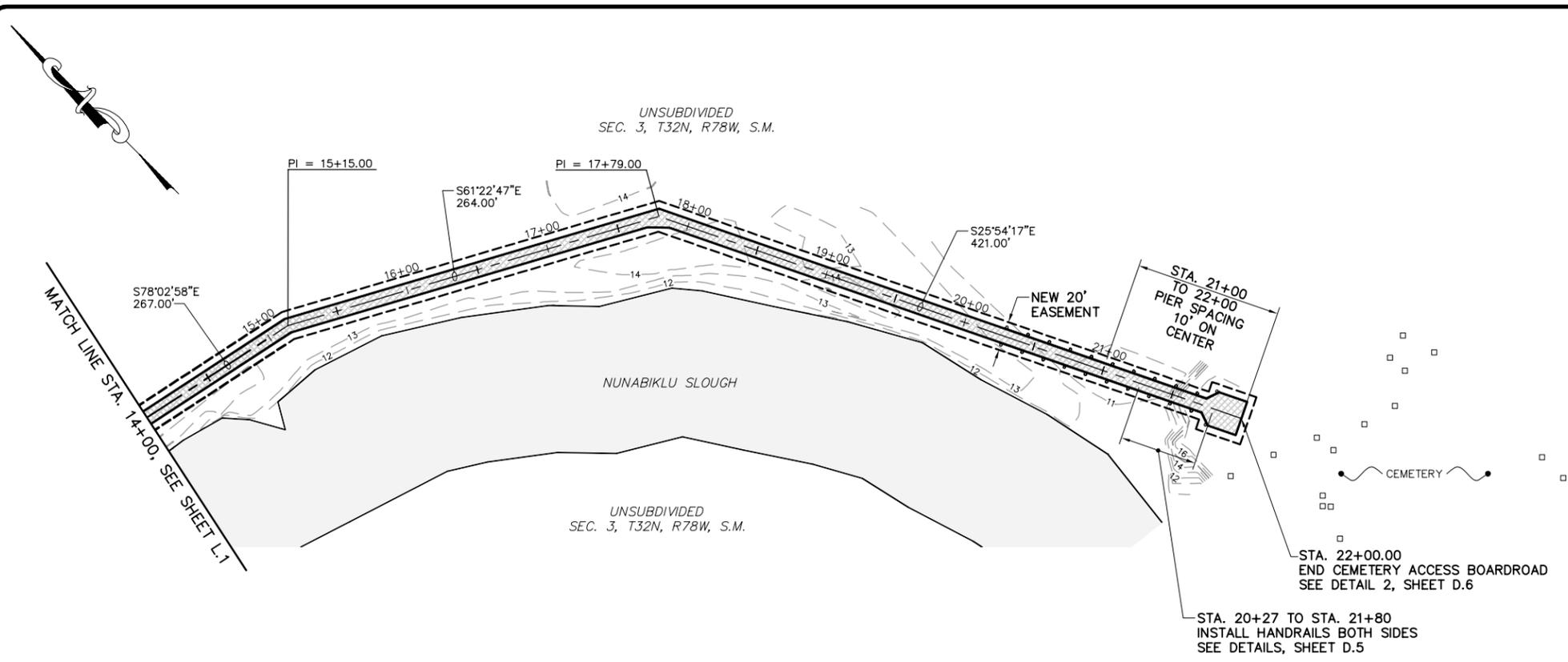
HAMILTON CEMETERY
ACCESS BOARDROAD
HAMILTON, ALASKA

PLAN/PROFILE
CEMETERY ACCESS BOARDROAD
STA. 0+00
TO
STA. 14+00

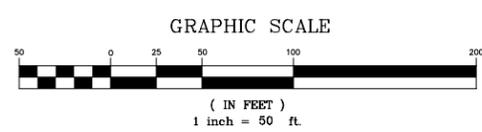
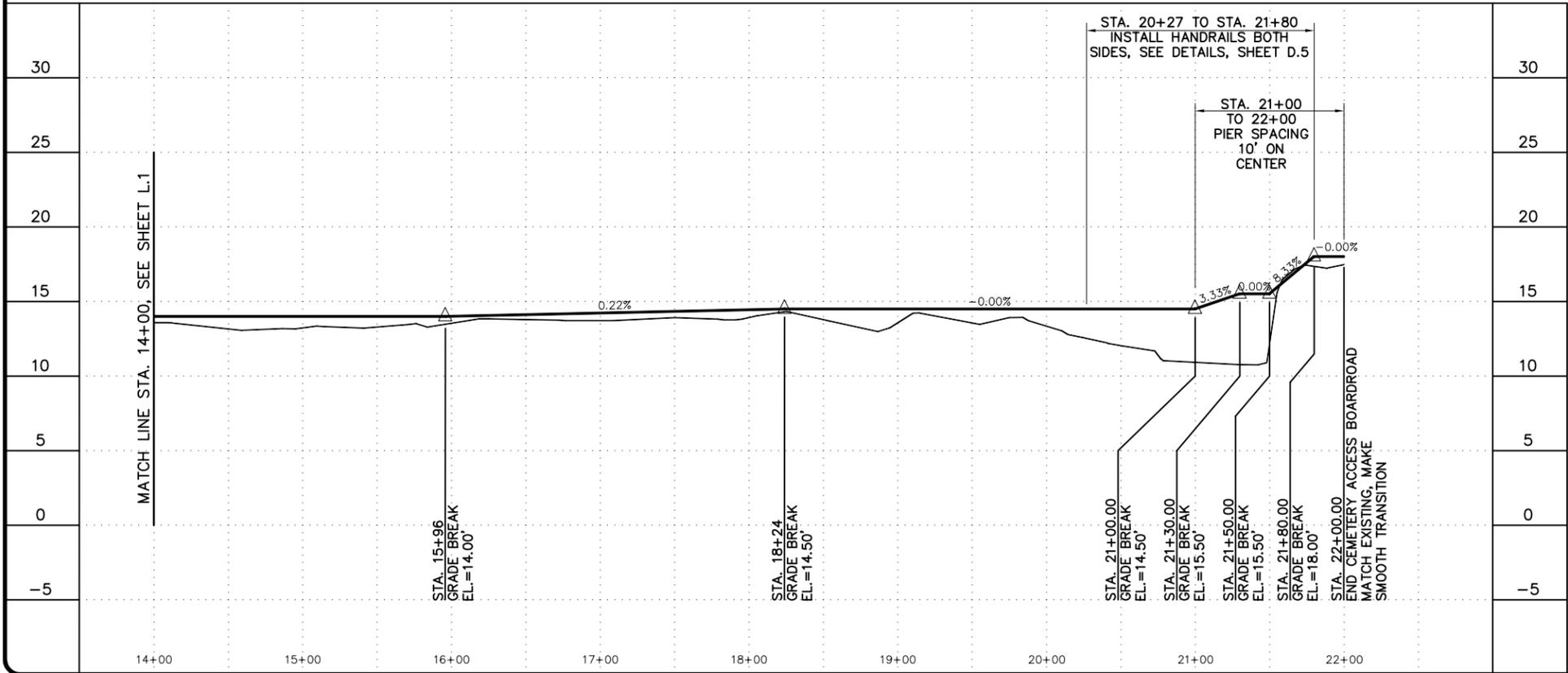
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APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: HORZ. 1"=50' VERT. 1"=5'

SHEET NO.
L.1

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	3	T 32 N	R 78 W	SEWARD	2016



CEMETERY ACCESS BOARDROAD



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STA. 14+00
TO
STA. 22+00

DESIGNED BY: BLP
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APPROVED BY: BLP
DATE: OCTOBER 07, 2016
SCALE: HORZ. 1"=50' VERT. 1"=5'

SHEET NO.
L.2