CARTWAY SKETCH

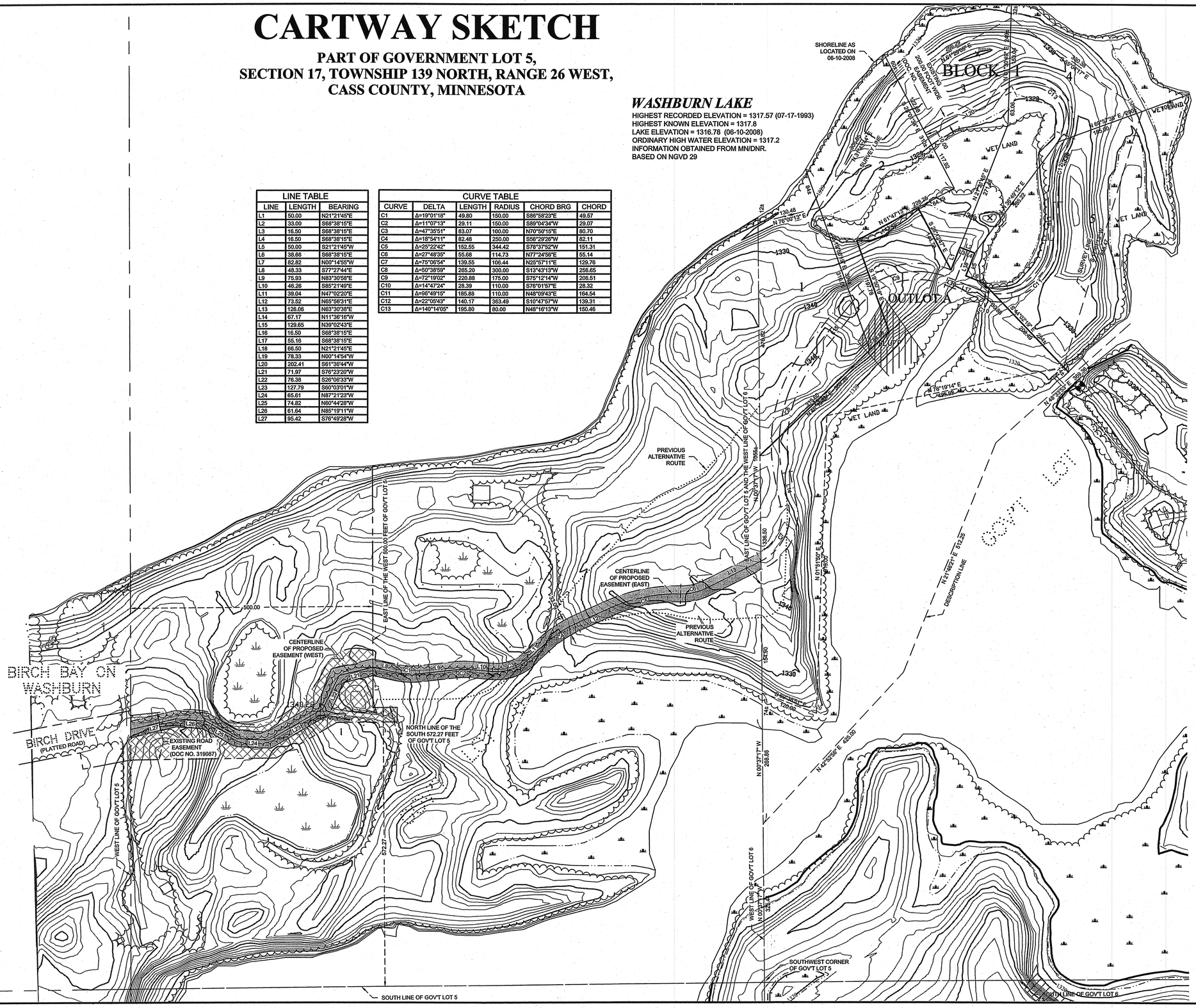
PART OF GOVERNMENT LOT 5, SECTION 17, TOWNSHIP 139 NORTH, RANGE 26 WEST, CASS COUNTY, MINNESOTA

WASHBURN LAKE

HIGHEST RECORDED ELEVATION = 1317.57 (07-17-1993)
HIGHEST KNOWN ELEVATION = 1317.8
LAKE ELEVATION = 1316.78 (06-10-2008)
ORDINARY HIGH WATER ELEVATION = 1317.2
INFORMATION OBTAINED FROM MN/DNR.
BASED ON NGVD 29

LINE TABLE		
LINE	LENGTH	BEARING
L1	50.00	N21°21'45"E
L2	33.00	S68°38'15"E
L3	16.50	S68°38'15"E
L4	16.50	S68°38'15"E
L5	50.00	S21°21'45"W
L6	38.66	S68°38'15"E
L7	82.82	N00°14'55"W
L8	48.33	S77°27'44"E
L9	75.93	N83°30'58"E
L10	46.26	S85°21'49"E
L11	39.04	N47°02'20"E
L12	73.52	N65°56'31"E
L13	126.06	N63°30'38"E
L14	67.17	N11°36'16"W
L15	129.65	N39°02'43"E
L16	16.50	S68°38'15"E
L17	55.16	S68°38'15"E
L18	66.50	N21°21'45"E
L19	78.33	N00°14'54"W
L20	202.41	S61°36'44"W
L21	71.97	S76°23'20"W
L22	76.38	S26°05'33"W
L23	127.79	S60°03'01"W
L24	65.61	N87°21'23"W
L25	74.82	N60°44'28"W
L26	61.64	N85°19'11"W
L27	95.42	S76°49'28"W

CURVE TABLE					
CURVE	DELTA	LENGTH	RADIUS	CHORD BRG	CHORD
C1	Δ=19°01'18"	49.80	150.00	S86°58'23"E	49.57
C2	Δ=11°07'13"	29.11	150.00	S89°04'34"W	29.07
C3	Δ=47°35'51"	83.07	100.00	N70°50'15"E	80.70
C4	Δ=18°54'11"	82.48	250.00	S56°29'26"W	82.11
C5	Δ=25°22'42"	152.55	344.42	S78°37'52"W	151.31
C6	Δ=27°48'35"	55.68	114.73	N77°24'56"E	55.14
C7	Δ=75°06'54"	139.55	106.44	N25°57'11"E	129.78
C8	Δ=50°38'59"	265.20	300.00	S13°43'13"W	256.65
C9	Δ=72°19'02"	220.88	175.00	S75°12'14"W	206.51
C10	Δ=14°47'24"	28.39	110.00	S76°01'57"E	28.32
C11	Δ=96°49'15"	185.88	110.00	N48°09'43"E	164.54
C12	Δ=22°05'43"	140.17	363.49	S10°47'57"W	139.31
C13	Δ=146°14'05"	195.80	80.00	N48°16'13"W	150.46



EXISTING EASEMENT DESCRIPTION

CONTAINING 51,899± sq.ft.

DOCUMENT #319087 FROM CASS COUNTY RECORDERS OFFICE

A perpetual easement for roadway purposes over and across that part of Government Lot 5, Section 17, Township 139, Range 26, Cass County, Minnesota, described as follows:
Commencing at a point on the West line of said Government Lot 5, which said point is the Southeast corner of Lot 1, Block 1, BIRCH BAY ON WASHBURN LAKE, according to the plat thereof on file and of record in the office of the County Recorder in and for said Cass County, Minnesota; thence South 0 degrees 14 minutes 56 seconds East along the West line of said Government Lot 5, 10.00 feet to the actual point of beginning of the tract of land to be described; thence North 84 degrees 00 minutes East 100.51 feet; thence Southeasterly 103.17 feet along a tangential curve, concave to the Southwest, having a central angle of 32 degrees 50 minutes 19 seconds and a radius of 180.00 feet; thence Easterly 103.81 feet along a reverse curve, concave to the North, having a central angle of 54 degrees 04 minutes 18 seconds and a radius of 110.00 feet; thence Northeasterly 145.80 feet along a compound curve, concave to the Northwest, having a central angle of 37 degrees 27 minutes 42 seconds and a radius of 223.00 feet; thence Northeasterly 94.15 feet along a reverse curve, concave to the Southeast, having a central angle of 75 degrees 16 minutes 30 seconds and a radius of 71.66 feet; thence South 79 degrees 25 minutes 11 seconds East, tangent to the last described curve 22.27 feet to the East line of the West 500.00 feet of said Government Lot 5; thence South 0 degrees 14 minutes 56 seconds East along said East line of the West 500.00 feet of Government Lot 5, 116.30 feet to the North line of the South 572.27 feet of said Government Lot 5; thence North 89 degrees 26 minutes 46 seconds East along said North line of the South 572.72 feet of Government Lot 5, 50.00 feet to the East line of the West 550.00 feet of said Government Lot 5; thence South 0 degrees 14 minutes 56 seconds East along said East line of the West 550.00 feet of Government Lot 5, 30.00 feet; thence South 89 degrees 26 minutes 46 seconds West 125.00 feet; thence South 59 degrees 42 minutes 39 seconds West 144.40 feet; to the North line of the South 470.65 feet of said Government Lot 5; thence South 89 degrees 26 minutes 46 seconds West along said North line of the South 470.65 feet of Government Lot 5, 300.00 feet to the West line of said Government Lot 5; thence North 0 degrees 14 minutes 56 seconds West along said West line 91.62 feet to the actual point of beginning, subject to restrictions, reservations and easement of record, if any.

PROPOSED CARTWAY EASEMENT DESCRIPTIONS

PROPOSED EASEMENT DESCRIPTION (EAST)

CONTAINING 28442± sq.ft.

A 33.00 foot wide easement for ingress, egress, and utility purposes over, under, and across that part of Government Lot 5, Section 17, Township 139 North, Range 26 West, Cass County, Minnesota, the centerline of said easement is described as follows:
Commencing at the intersection of the North line of the South 572.27 feet of said Government Lot 5 and the East line of the West 500.00 feet of said Government Lot 5; thence North 00 degrees 14 minutes 55 seconds West, assumed bearing, along said East line 82.82 feet to the point of beginning of the centerline to be herein described; thence South 77 degrees 27 minutes 44 seconds East 48.33 feet; thence Easterly 49.80 feet along a tangential curve concave to the North having a radius of 150.00 feet and a central angle of 19 degrees 01 minute 18 seconds; thence North 83 degrees 30 minutes 58 seconds East tangent to said curve 75.93 feet; thence Easterly 29.11 feet along a tangential curve concave to the South having a radius of 150.00 feet and a central angle of 11 degrees 07 minutes 13 seconds; thence South 85 degrees 21 minutes 49 seconds East tangent to said last described curve 46.26 feet; thence Northeasterly 83.07 feet along a tangential curve concave to the Northwest having a radius of 100.00 feet and a central angle of 47 degrees 35 minutes 51 seconds; thence North 47 degrees 02 minutes 20 seconds East tangent to said last described curve 39.04 feet; thence Northeasterly 82.48 feet along a tangential curve concave to the Southeast having a radius of 250.00 feet and a central angle of 18 degrees 54 minutes 11 seconds; thence North 65 degrees 56 minutes 31 seconds East tangent to said last described curve 73.52 feet; thence Easterly 152.55 feet along a tangential curve concave to the South having a radius of 344.42 feet and a central angle of 25 degrees 22 minutes 42 seconds to a point of reverse curvature; thence Easterly 55.68 feet along said reverse curve concave to the North having a radius of 114.73 feet and a central angle of 27 degrees 48 minutes 35 seconds; thence North 63 degrees 30 minutes 38 seconds East tangent to said last described curve 126.06 feet, more or less, to the East line of said Government Lot 5 and said described centerline there terminating.
The sidelines of said easement shall be prolonged or shortened to terminate on said East line of the West 500.00 feet and on said East line of Government Lot 5.

PROPOSED EASEMENT DESCRIPTION (WEST)

CONTAINING 18930± sq.ft.

A 33.00 foot wide easement for ingress, egress, and utility purposes over, under, and across that part of Government Lot 5, Section 17, Township 139 North, Range 26 West, Cass County, Minnesota, the centerline of said easement is described as follows:
Commencing at the intersection of the North line of the South 572.27 feet of said Government Lot 5 and the East line of the West 500.00 feet of said Government Lot 5; thence North 00 degrees 14 minutes 55 seconds West, assumed bearing, along said East line 82.82 feet to the point of beginning of the centerline to be herein described; thence South 76 degrees 23 minutes 20 seconds West 71.97 feet; thence South 26 degrees 06 minutes 33 seconds West 76.38 feet; thence South 60 degrees 03 minutes 01 second West 127.79 feet; thence North 87 degrees 21 minutes 23 seconds West 65.61 feet; thence North 60 degrees 44 minutes 28 seconds West 74.82 feet; thence North 85 degrees 19 minutes 11 seconds West 61.64 feet; thence South 76 degrees 49 minutes 28 seconds West 95.42 feet, more or less, to the West line of said Government Lot 5 and said described centerline there terminating.
The sidelines of said easement shall be prolonged or shortened to terminate on said East line of the West 500.00 feet and on said West line of Government Lot 5.

RECEIVED
#4165
MAR 24 2009
CASS COUNTY SURVEYOR

100 0 100 200
SCALE IN FEET

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE EAST LINE OF THE WEST 500.00 FEET OF GOVERNMENT LOT 5 TO HAVE AN ASSIGNED BEARING OF N 00°14'55" W.

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Landecker & Associates, Inc.
Engineering - Surveying - Planning
Walker, MN 56484
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I HEREBY CERTIFY THAT THIS SURVEY, PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
Terry L. Freeman, PLS #21367
DATE 2/12/09 LIC. NO. 21367

REVISIONS		
DATE	DESCRIPTION	BY
2/12/09	Add Proposed East & West Easement	CMW

DATE: 09-18-2008	SCALE: HORZ. 1" = 100' VERT. NONE
PROJECT No.: 082049	FILE NAME: S082049-1.dwg
FIELD BOOK: BOOK 296 PG. 60	
PROJECT MANAGER: TLF	CHECKED BY: TLF
DRAWN BY: WAG	

CARTWAY SKETCH

David Harrington
15906 Siskin Lane NE
Bemidji, MN 56601

SHEET 1 OF 1

Terry Freeman 2/12/2009 5:00 PM - F:\Drawings\2008\082049 HARRINGTON\dwg\S082049-1.dwg