Revised

CERTIFICATE OF SURVEY

PART OF GOV'T LOT 4, THE SW 1/4-NW 1/4, & THE SE 1/4-NW 1/4 ALL IN SECTION 6, TOWNSHIP 138 NORTH, RANGE 29 WEST CASS COUNTY, MINNESOTA

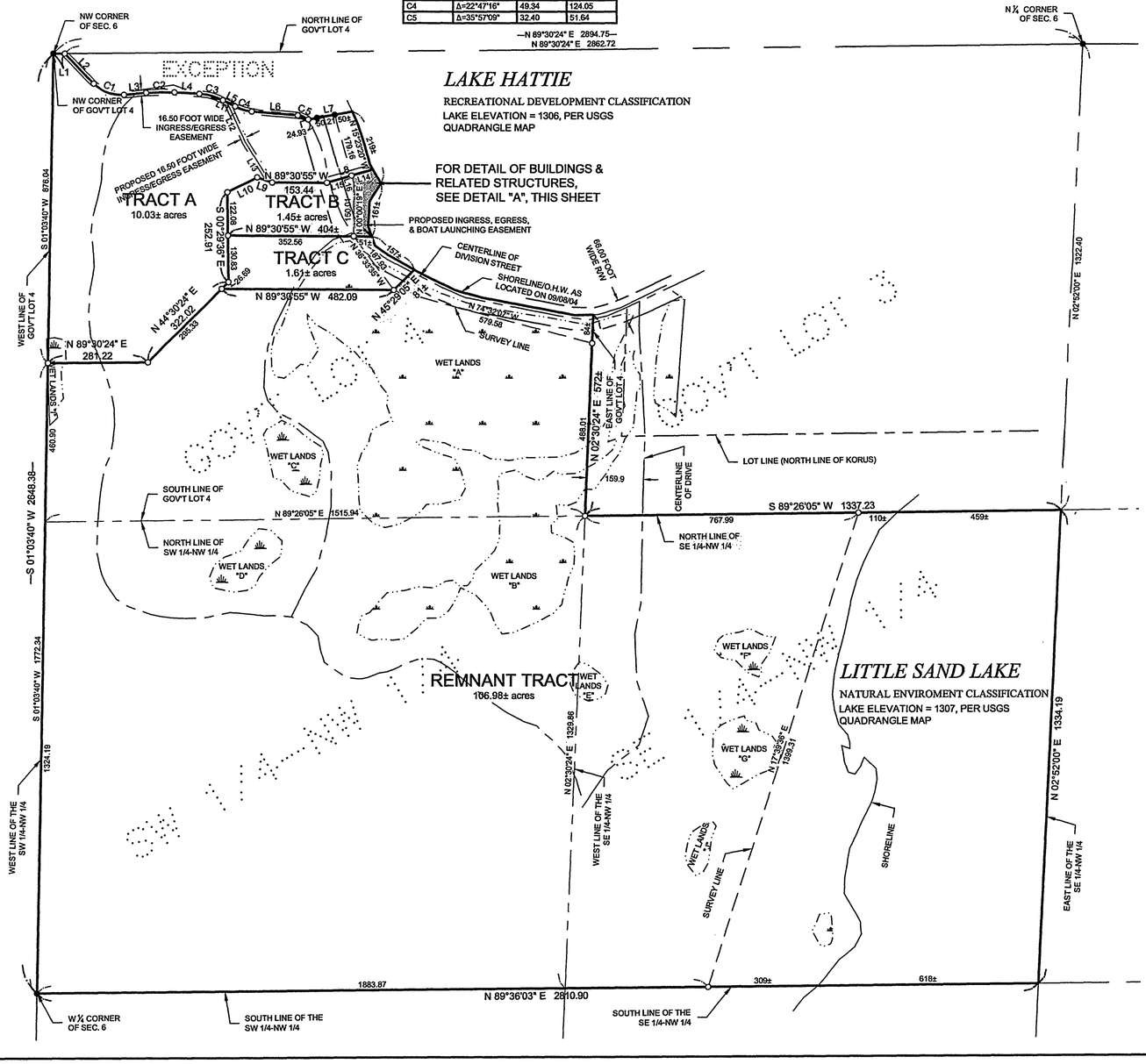
LEGEND

- ● DENOTES MONUMENT FOUND
- ○ DENOTES IRON MONUMENT SET MARKED BY LICENSE No. 17008

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE NORTH LINE OF GOV'T LOT 4 TO HAVE AN ASSUMED BEARING OF N 89°30'24" E.

LINE TABLE		
LINE	LENGTH	BEARING
L1	32.03	N 89°30'24" E
L2	117.28	S 43°53'52" E
L3	62.98	N 84°40'55" E
L4	69.34	S 86°40'19" E
L5	38.47	S 62°17'43" E
L6	129.53	S 85°04'59" E
L7	125±	N 79°30'24" E
L8	134±	S 73°34'37" W
L9	44.52	N 71°18'25" W
L10	92.66	S 63°38'13" W
L11	13.03	S 62°17'43" E
L12	124.10	S 24°32'49" E
L13	131.80	S 31°35'43" E
L14	62±	S 73°34'37" W
L15	72.13	S 73°34'37" W
L16	21.80	N 15°23'20" W

CURVE TABLE			
CURVE	DELTA	LENGTH	RADIUS
C1	Δ=51°25'13"	93.20	103.85
C2	Δ=8°38'45"	79.85	529.14
C3	Δ=24°22'36"	68.94	162.04
C4	Δ=22°47'16"	49.34	124.05
C5	Δ=35°57'09"	32.40	51.64



PROPOSED LEGAL DESCRIPTIONS

TRACT A

That part of Government Lot 4, Section 6, Township 138 North, Range 29 West, Cass County, Minnesota, described as follows:
Commencing at the Northwest corner of said Government Lot 4; thence South 01 degree 03 minutes 40 seconds West, assumed bearing, 876.04 feet along the West line of said Government Lot 4; thence North 89 degrees 30 minutes 24 seconds East 281.22 feet; thence North 44 degrees 30 minutes 24 seconds East 322.02 feet; thence North 00 degrees 29 minutes 36 seconds West 252.91 feet; thence North 63 degrees 38 minutes 13 seconds East 92.66 feet; thence South 71 degrees 18 minutes 25 seconds East 44.52 feet; thence South 89 degrees 30 minutes 55 seconds East 153.44 feet to the point of beginning of tract to be herein described; thence North 89 degrees 30 minutes 55 seconds West 153.44 feet; thence North 71 degrees 18 minutes 25 seconds West 44.52 feet; thence South 63 degrees 38 minutes 13 seconds West 92.66 feet; thence South 00 degrees 29 minutes 36 seconds East 252.91 feet; thence South 44 degrees 30 minutes 24 seconds West 322.02 feet; thence South 89 degrees 30 minutes 24 seconds West 281.22 feet to the West line of said Government Lot 4; thence North 01 degree 03 minutes 40 seconds East 876.04 feet along the West line thereof to the Northwest corner of said Government Lot 4; thence North 89 degrees 30 minutes 24 seconds East along the North line of said Government Lot 4 for a distance of 32.03 feet; thence South 43 degrees 53 minutes 52 seconds East 117.28 feet; thence Easterly 93.20 feet along a tangential curve concave to the Northeast, having a radius of 103.85 feet and a central angle of 51 degrees 25 minutes 13 seconds; thence North 84 degrees 40 minutes 55 seconds East tangent to said curve 62.98 feet; thence Easterly 79.85 feet along a tangential curve concave to the South, having a radius of 529.14 feet and a central angle of 08 degrees 38 minutes 45 seconds; thence South 86 degrees 40 minutes 19 seconds East 69.34 feet, tangent to last described curve; thence Easterly 68.94 feet along a tangential curve concave to the Southwest, having a radius of 162.04 feet and a central angle of 24 degrees 22 minutes 36 seconds; thence South 62 degrees 17 minutes 43 seconds East 38.47 feet tangent to last described curve; thence Easterly 49.34 feet along a tangential curve concave to the Northeast, having a radius of 124.05 feet and a central angle of 22 degrees 47 minutes 16 seconds; thence South 85 degrees 04 minutes 59 seconds East 129.53 feet, tangent to last described curve; thence Southeasterly 32.40 feet along a tangential curve concave to the Southwest, having a radius of 51.64 feet and a central angle of 35 degrees 57 minutes 09 seconds; thence North 79 degrees 30 minutes 24 seconds East 125 feet, more or less, to the shoreline of Lake Hattie; thence Southeasterly along said shoreline to the intersection with a line bearing North 73 degrees 34 minutes 37 seconds East from the point of beginning; thence South 73 degrees 34 minutes 37 seconds West 134 feet, more or less, to the point of beginning.

Subject to easements, restrictions, and reservations of record.

TRACT B

That part of Government Lot 4, Section 6, Township 138 North, Range 29 West, Cass County, Minnesota, described as follows:
Commencing at the Northwest corner of said Government Lot 4; thence South 01 degree 03 minutes 40 seconds West, assumed bearing, 876.04 feet along the West line of said Government Lot 4; thence North 89 degrees 30 minutes 24 seconds East 281.22 feet; thence North 44 degrees 30 minutes 24 seconds East 322.02 feet; thence North 00 degrees 29 minutes 36 seconds West 130.83 feet to the point of beginning of tract to be herein described; thence North 00 degrees 29 minutes 36 seconds West 122.08 feet; thence North 63 degrees 38 minutes 13 seconds East 92.66 feet; thence South 71 degrees 18 minutes 52 seconds East 44.52 feet; thence South 89 degrees 30 minutes 55 seconds East 153.44 feet; thence North 73 degrees 34 minutes 37 seconds East 134 feet, more or less, to the shoreline of Lake Hattie; thence Southerly along said shoreline to the intersection with a line bearing South 89 degrees 30 minutes 55 seconds East from the point of beginning; thence North 89 degrees 30 minutes 55 seconds West 404 feet, more or less, to the point of beginning.

Subject to easements, restrictions, and reservations of record.

TRACT C

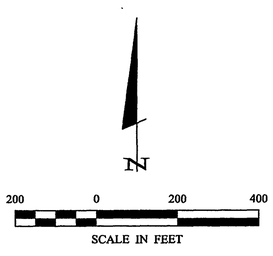
That part of Government Lot 4, Section 6, Township 138 North, Range 29 West, Cass County, Minnesota, described as follows:
Commencing at the Northwest corner of said Government Lot 4; thence South 01 degree 03 minutes 40 seconds West, assumed bearing, 876.04 feet along the West line of said Government Lot 4; thence North 89 degrees 30 minutes 24 seconds East 281.22 feet; thence North 44 degrees 30 minutes 24 seconds East 322.02 feet; thence North 00 degrees 29 minutes 36 seconds West 130.83 feet to the point of beginning of tract to be herein described; thence South 00 degrees 29 minutes 36 seconds East 130.83 feet; thence South 44 degrees 30 minutes 24 seconds West 26.69 feet; thence North 45 degrees 29 minutes 05 seconds East 81 feet more or less, to the shoreline of Lake Hattie; thence Northwesterly along said shoreline to the intersection with a line bearing South 89 degrees 30 minutes 55 seconds East from the point of beginning; thence North 89 degrees 30 minutes 55 seconds West 404 feet, more or less, to the point of beginning.

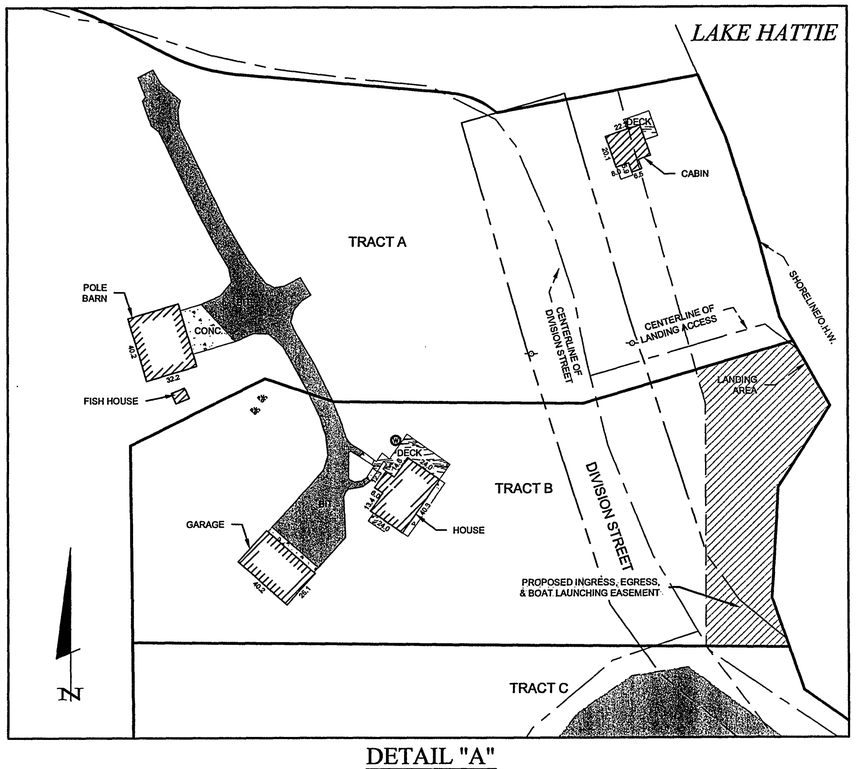
Subject to easements, restrictions, and reservations of record.

REMNANT TRACT

The Southwest Quarter of the Northwest Quarter and the Southeast Quarter of the Northwest Quarter, Section 6, Township 138 North, Range 29 West, Cass County, Minnesota, and that part of Government Lot 4, said Section 6, lying Southerly of the following described line:
Commencing at the Northwest corner of said Government Lot 4; thence South 01 degree 03 minutes 40 seconds West, assumed bearing, 876.04 feet along the West line thereof to the point of beginning of the line to be herein described; thence North 89 degrees 30 minutes 24 seconds East 281.22 feet; thence North 44 degrees 30 minutes 24 seconds East 295.33 feet; thence South 89 degrees 30 minutes 55 seconds East 482.09 feet; thence North 45 degrees 29 minutes 05 seconds East 81 feet, more or less, to the shoreline of Lake Hattie; thence Southeasterly along said shoreline to the East line of said Government 4 and said described line there terminating.

Subject to easements, restrictions, and reservations of record.





DETAIL "A"

SCALE: 1" = 50'

EXISTING ROADWAY EASEMENT (TO REMAIN FOR ACCESS)

A 16.50 ft wide rdwy easement, for ingress, egress and regress, over, under and across part of Govt Lot 4, Sec. 6-138N-29W of the 5th P.M. and part of Govt Lot 4, Sec. 31-138N-29W of the 5th P.M.

The centerline of said Rdwy Easement is described as follows: Commencing at the NE corner of Govt Lot 3 of said Sec. 6; thence W 2117.06 ft, initial bearing assigned, along the N line of said Govt Lot 3 and of said Govt Lot 4, Sec. 6; thence S 19°11'12" E 340.47 ft; thence S 72°41'19" W 123.59 ft to the centerline of the Twp Road as now laid out and traveled; thence N 16°19'46" W 148.03 ft along said centerline of the Twp Road to the point of beginning of the centerline of said Rdwy Easement; thence NWly 61.52 ft, along a tangential curve to the left, having a radius of 51.64 ft, a central angle of 68°15'38" and the chord of said curve bears N 50°27'35" W for a distance of 57.94 ft; thence N 84°35'23" W 129.53 ft, tangent to said curve; thence Wly 49.34 ft along a tangential curve to the right, having a radius of 124.05 ft and a central angle of 22°47'16"; thence N 61°48'07" W 38.47 ft tangent to the last described curve; thence Wly 68.94 ft along a tangential curve to the left, having a radius of 162.04 ft and a central angle of 24°22'36"; thence N 86°10'43" W 69.34 ft, tangent to the last described curve; thence Wly 79.85 ft along a tangential curve to the left, having a radius of 529.14 ft and a central angle of 8°38'45"; thence S 85°10'31" W 62.98 ft tangent to the last described curve; thence Wly 93.20 ft along a tangential curve to the right, having a radius of 103.85 ft and a central angle of 51°25'13"; thence N 43°24'16" W 117.28 ft tangent to the last described curve to the N line of said Govt Lot 4, Sec. 6; thence continue N 43°24'16" W 47 ft, more or less, to the W line of said Govt Lot 4, Sec. 31, and said Rdwy Easement centerline there terminating.

The side lines of said Rdwy Easement are prolonged or shortened to terminate on the Wly Right of Way Line, and the Nly extension thereof, of said Twp Road and on said W line of Govt Lot 3 of Sec. 31.

PROPOSED INGRESS-EGRESS EASEMENT DESCRIPTION (ACCESS TO TRACT B)

A 16.50 foot wide easement for ingress and egress purposes over, under, and across part of Government Lot 4, Section 6, Township 138 North, Range 29 West, Cass County, Minnesota, the centerline of said easement is described as follows:
Commencing at the Northwest corner of said Government Lot 4; thence North 89 degrees 30 minutes 24 seconds East along the North line of said Government Lot 4 for a distance of 32.03 feet; thence South 43 degrees 53 minutes 52 seconds East 117.28 feet; thence Easterly 93.20 feet along a tangential curve concave to the Northeast, having a radius of 103.85 feet and a central angle of 51 degrees 25 minutes 13 seconds; thence North 84 degrees 40 minutes 55 seconds East tangent to said curve 62.98 feet; thence Easterly 79.85 feet along a tangential curve concave to the South, having a radius of 529.14 feet and a central angle of 08 degrees 38 minutes 45 seconds; thence South 86 degrees 40 minutes 19 seconds East 69.34 feet, tangent to said last described curve; thence Easterly 68.94 feet along a tangential curve concave to the Southwest, having a radius of 162.04 feet and a central angle of 24 degrees 22 minutes 36 seconds; thence South 62 degrees 17 minutes 43 seconds East 13.03 feet tangent to said last described curve to the point of beginning of the centerline to be herein described; thence South 24 degrees 32 minutes 49 seconds East 124.10 feet; thence South 31 degrees 35 minutes 43 seconds East 131.80 feet and said centerline there terminating.
The sidelines of said easement shall be prolonged or shortened to terminate on a line bearing North 71 degrees 18 minutes 25 seconds West and South 71 degrees 18 minutes 25 seconds East from the point of termination.

PROPOSED INGRESS AND EGRESS BOAT LAUNCHING EASEMENT

An easement for ingress, egress, and boat launching purposes over, under, and across part of Government Lot 4, Section 6, Township 138 North, Range 29 West, Cass County, Minnesota, described as follows:
Commencing at the Northwest corner of said Government Lot 4; thence North 89 degrees 30 minutes 24 seconds East along the North line of said Government Lot 4 for a distance of 32.03 feet; thence South 43 degrees 53 minutes 52 seconds East 117.28 feet; thence Easterly 93.20 feet along a tangential curve concave to the Northeast, having a radius of 103.84 feet and a central angle of 51 degrees 25 minutes 13 seconds; thence North 84 degrees 40 minutes 55 seconds East tangent to said curve 62.98 feet; thence Easterly 79.85 feet along a tangential curve concave to the South, having a radius of 529.14 feet and a central angle of 08 degrees 38 minutes 45 seconds; thence South 86 degrees 40 minutes 19 seconds East 69.34 feet tangent to last described curve; thence Easterly 68.94 feet along a tangential curve concave to the Southwest, having a radius of 162.04 feet and a central angle of 24 degrees 22 minutes 36 seconds; thence South 62 degrees 17 minutes 43 seconds East 38.47 feet tangent to last described curve; thence Easterly 49.34 feet along a tangential curve concave to the Northeast, having a radius of 124.05 feet and a central angle of 22 degrees 47 minutes 16 seconds; thence South 85 degrees 04 minutes 59 seconds East 129.53 feet tangent to last described curve; thence Southeasterly 32.40 feet along a tangential curve concave to the Southwest, having a radius of 51.64 feet and a central angle of 35 degrees 57 minutes 09 seconds; thence North 79 degrees 30 minutes 24 seconds East 75.14 feet; thence South 15 degrees 23 minutes 18 seconds East 179.16 feet to the point of beginning of the easement to be herein described; thence continuing South 15 degrees 23 minutes 18 seconds East 21.81 feet; thence South 00 degrees 00 minutes 19 seconds West 150.01 feet; thence North 89 degrees 30 minutes 55 seconds West 51 feet, more or less, to the shoreline of Lake Hattie; thence Northerly and Northeasterly along said shoreline to the intersection with a line bearing North 73 degrees 34 minutes 37 seconds East from the point of beginning; thence South 73 degrees 34 minutes 37 seconds West 62 feet, more or less, to the point of beginning.

Landecker & Associates, Inc.
Engineering - Surveying - Planning
Proper Lake, MN 55472
Phone: 1-888-866-4940 Fax: 218-565-5404

I HEREBY CERTIFY THAT THIS SURVEY, PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND I AM A DULY LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.
PATRICK A. TROTTIER, PLS #41002
DATE 10-13-05 LIC. NO. 41002

REVISIONS		
DATE	DESCRIPTION	BY
10/13/05	REVISED TRACTS & LEGALS	JWR

DATE:	11/18/04
COMPUTER:	C041299.dwg
FIELD BOOK:	BOOK 259 PG. 18
SCALE:	HORZ. AS SHOWN
	VERT. NONE
FILE NO.	041299
PROJ. MGR.	KTM
CHECKED BY:	DSL
DRAWN BY:	JWR

CERTIFICATE OF SURVEY

Dave Figi
c/o Cangen-Anderson
5127A West 98th Street
Bloomington, MN 55437

SHEET 2 OF 2