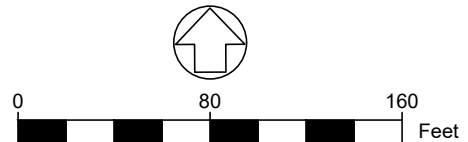


010-4347-00010 CL			
Number	Radius	Length	Line/Chord Direction
L1		71.29	S10° 32' 41"E
C101	80.00	81.61	Δ58° 26' 43" S38° 24' 43"E
C102	23.00	57.78	Δ143° 55' 48" S5° 55' 09"E
L2		44.42	S73° 20' 35"W

NOTE: PARCEL DESCRIPTIONS TAKEN FROM ST. LOUIS COUNTY PROPERTY DETAILS REPORT. DUE TO SNOW CONDITIONS, PROPERTY CORNERS COULD NOT BE LOCATED. ST. LOUIS COUNTY GIS PARCEL LINES ARE USED.

BASIS OF BEARING:
SLCTM 96



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DATE 04/08/2019 5:13:01 PM
GREGORY STOEWER

010-4347-00010

15513.349

DULUTH TRAVERSE TRAIL

1 of 2

A PERMANENT EASEMENT FOR DULUTH TRAVERSE TRAIL IN PARCEL ID 010-4347-00010

A TWENTY-FIVE FOOT WIDE EASEMENT OVER, UNDER AND ACROSS ALL THAT PART OF LOTS 3 AND 4 OF UNIVERSITY PARK DIVISION ACCORDING TO THE RECORDED PLAT THEREOF, CITY OF DULUTH, ST. LOUIS COUNTY, MINNESOTA CENTERED ON THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE NORTHWEST CORNER OF SAID LOT 4;

THENCE NORTH 79 DEGREES 57 MINUTES 32 SECONDS EAST 45.92 FEET ALONG THE NORTH LINE OF SAID LOT 4, BEARINGS REFERENCED TO THE ST. LOUIS COUNTY TRANSVERSE MERCATOR 1996 COORDINATE SYSTEM, TO THE POINT OF BEGINNING AT CENTERLINE STATION 0+00;

THENCE SOUTH 10 DEGREES 32 MINUTES 41 SECONDS EAST 71.29 FEET;

THENCE SOUTHEASTERLY 81.61 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE NORTHEAST, RADIUS 80.00 FEET, CENTRAL ANGLE OF 58 DEGREES 26 MINUTES 43 SECONDS, AND A CHORD BEARING SOUTH 38 DEGREES 24 MINUTES 43 SECONDS EAST;

THENCE SOUTHEASTERLY AND SOUTHWESTERLY 57.78 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 23.00 FEET, CENTRAL ANGLE OF 143 DEGREES 55 MINUTES 48 SECONDS, AND A CHORD BEARING SOUTH 5 DEGREES 55 MINUTES 09 SECONDS EAST;

THENCE SOUTH 73 DEGREES 20 MINUTES 35 SECONDS WEST 44.42 FEET MORE OR LESS TO THE SOUTH LINE OF SAID LOT 4, CENTERLINE STATION 2+55 AND SAID LINE THERE TERMINATING.

THE NORTHERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE NORTH LINE OF SAID LOT 4.

THE SOUTHERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE SOUTH LINES OF SAID LOTS 3 AND 4.



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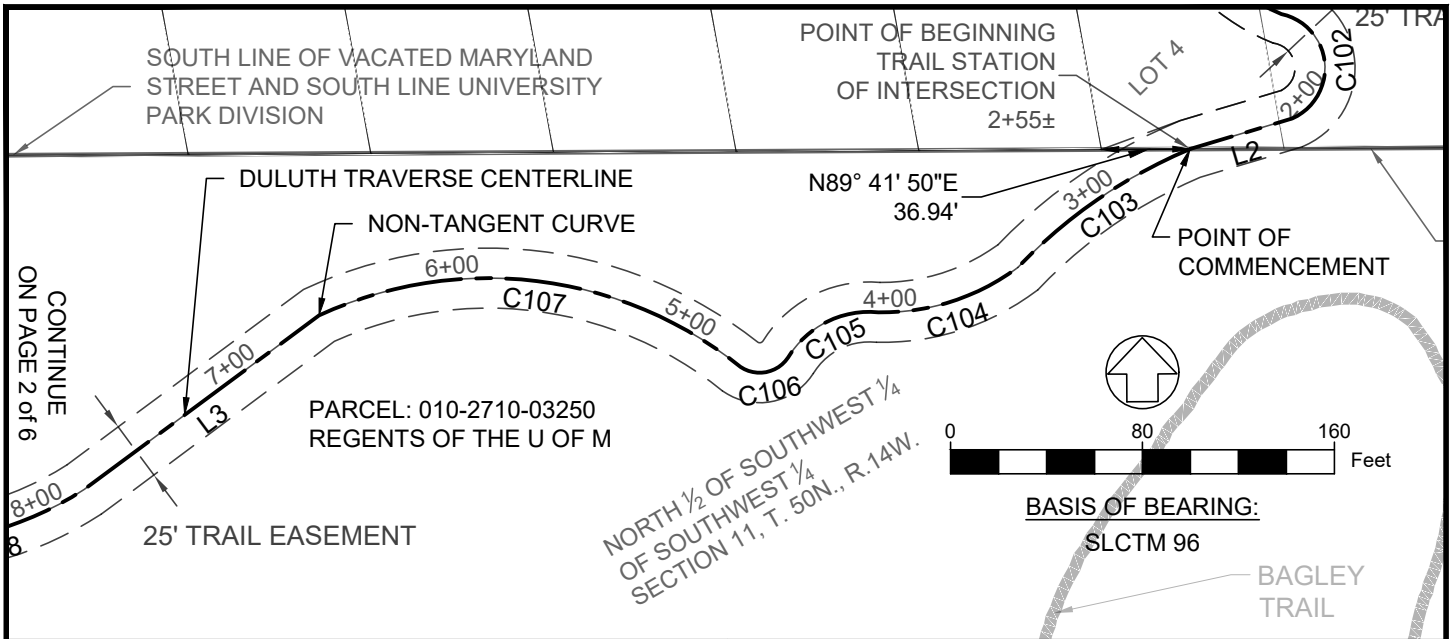
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04/08/2019 5:13:22 PM

010-4347-00010
LEGAL DESCRIPTION

15513.349

DULUTH TRAVERSE TRAIL

2 of 2



010-2710-03250 CL			
Number	Radius	Length	Line/Chord Direction
C103	212.47	87.77	Δ23°40'12" S55° 30' 27"W
C104	94.43	62.11	Δ37°41'10" S72° 09' 39"W
C105	39.58	44.40	Δ64°16'27" S63° 25' 26"W
C106	14.19	22.44	Δ90°38'36" S78° 57' 45"W
C107	167.84	186.34	Δ63°36'40" N83° 02' 38"W
L3		121.82	S53° 27' 18"W
C108	140.53	90.05	Δ36°42'51" S75° 22' 39"W
C109	31.97	66.62	Δ119°22'46" S52° 32' 54"W
C110	26.33	29.71	Δ64°40'03" S19° 19' 51"W
L4		34.56	N89° 42' 30"W
L5		24.48	N59° 13' 32"W
L6		36.93	S79° 25' 25"W
C111	64.81	60.13	Δ53°09'41" S85° 11' 53"W
C112	228.99	137.03	Δ34°17'11" S68° 05' 28"W

010-2710-03250 CL			
Number	Radius	Length	Line/Chord Direction
C113	52.47	90.77	Δ99°06'20" S38° 57' 29"W
L7		37.86	S28° 12' 18"E
C114	23.72	26.48	Δ63°57'39" S4° 22' 38"W
C115	98.80	172.81	Δ100°12'58" S12° 24' 00"E
L8		143.51	S60° 32' 34"E
C116	128.97	125.11	Δ55°34'59" S24° 15' 48"E
L9		21.68	S29° 34' 42"E
L10		54.46	S3° 35' 47"W
L11		66.68	S0° 15' 50"W
C117	67.64	65.57	Δ55°32'33" S23° 02' 06"E
C118	16.56	27.95	Δ96°42'56" S30° 01' 37"E
L12		86.35	S23° 51' 30"W
L25		90.65	S14° 36' 15"W

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PLOT DATE: Apr 30, 2019 - 10:55am
FILE NAME: P:\Herrmann\Town-Office\Projects\TKDA\15513.349 UMD DT Trail\04_Production\01_CAD\01_Xrefs\15513.349 Duluth Traverse - UMD Survey.dwg

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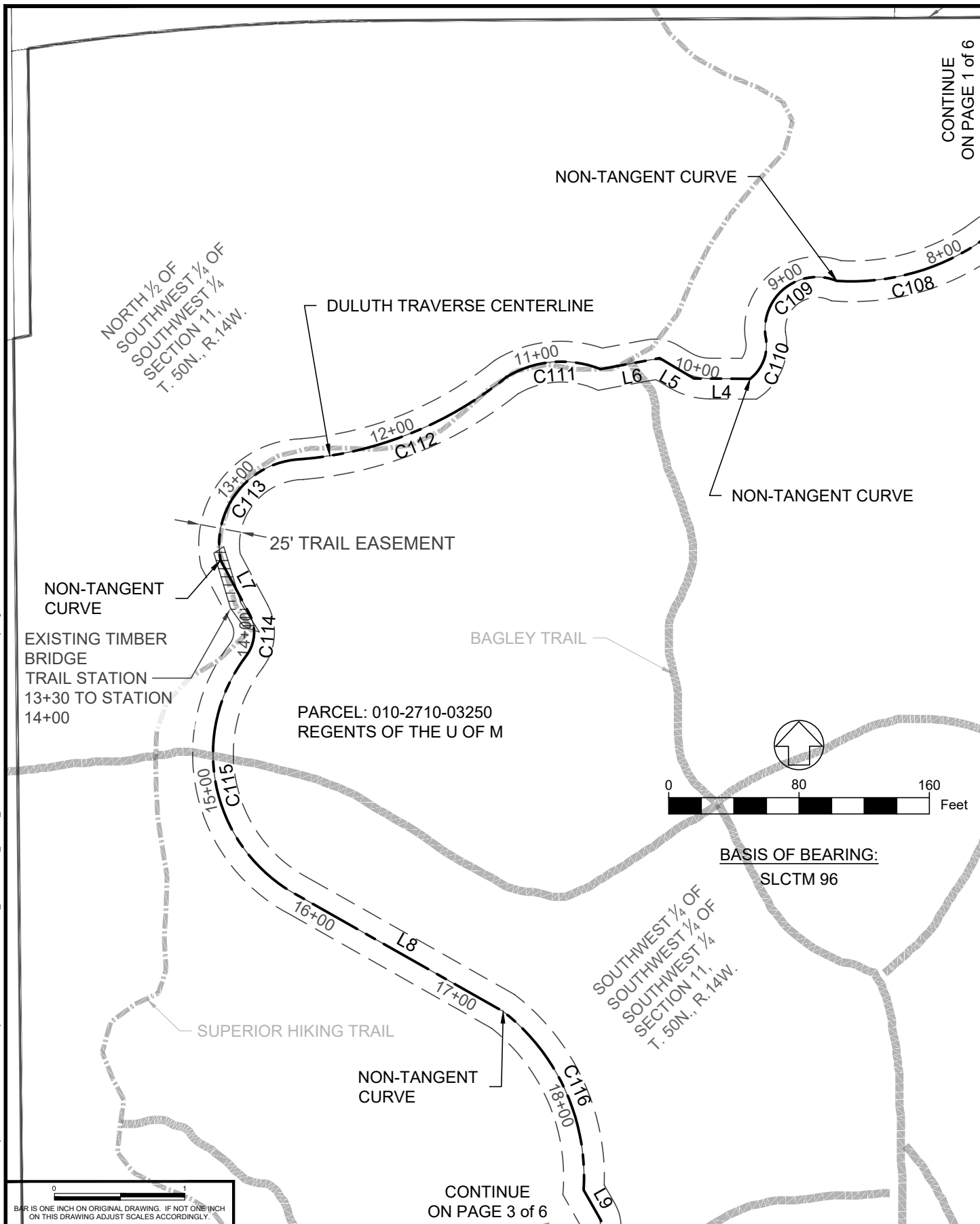


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010-2710-03250	15513.349
DULUTH TRAVERSE TRAIL	1 of 6

PLOT DATE: Apr 30, 2019 - 10:55am
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CONTINUE
ON PAGE 1 of 6

CONTINUE
ON PAGE 3 of 6

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For Review

010-2710-03250	15513.349
DULUTH TRAVERSE TRAIL	2 of 6

CONTINUE
ON PAGE 2 of 6

TRAIL STATION
OF INTERSECTION
18+97.25

25' TRAIL
EASEMENT

EAST LINE OF
SOUTHWEST 1/4 OF
SOUTHWEST 1/4 OF
SECTION 11,
T.50N., R.14W.

SOUTHWEST 1/4
SOUTHWEST 1/4 OF
SECTION 11,
T.50N., R.14W.

NON-TANGENT
CURVE

PARCEL: 010-2710-03250
REGENTS OF THE U OF M

DULUTH TRAVERSE
LOT T2 ACCESS TRAIL

POINT OF ENDING
TRAIL STATION
3+55±

SOUTH LINE OF THE SOUTHWEST 1/4 OF
THE SOUTHWEST 1/4 OF SOUTHWEST 1/4
SECTION 11, T.50N., R.14W.

TRAIL STATION
OF INTERSECTION
22+68±

N89° 56' 07"W
330.57'

SOUTHEAST CORNER OF SOUTHWEST 1/4 OF
SOUTHWEST 1/4 OF SOUTHWEST 1/4 SECTION
11, T.50N., R.14W.

010-2710-03250 CL - SPUR

Number	Radius	Length	Line/Chord Direction
C119	93.55	50.49	Δ30°55'30" S24° 09' 22"E
C120	16.11	27.75	Δ98°40'29" S58° 43' 12"E
C121	24.87	20.13	Δ46°22'12" S84° 24' 18"E
L15		69.04	S54° 23' 32"E
C122	103.27	72.84	Δ40°24'44" S69° 12' 25"E
C123	300.85	114.50	Δ21°48'21" S75° 18' 16"E



BASIS OF BEARING:

SLCTM 96

ST. LOUIS COUNTY CASDASTRAL DATA

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GREGORY STOEVE

010-2710-03250
SPUR LAYOUT

15513.349

DULUTH TRAVERSE TRAIL

3 of 6

PLOT DATE: Apr 30, 2019 - 10:55am
FILE NAME: P:\Herrmann\Town-Office\Projects\TKDA\15513 Land Survey\15513.349 UMD DT Trail\04_Production\01_CAD\01_Xrefs\15513.349 Duluth Traverse - UMD Survey.dwg

A PERMANENT EASEMENT FOR DULUTH TRAVERSE TRAIL IN PARCEL ID 010-2710-03250

A TWENTY-FIVE FOOT WIDE EASEMENT OVER, UNDER AND ACROSS ALL THAT PART OF THE NORTH HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11, TOWNSHIP 50 WEST, RANGE 14 WEST OF THE FOURTH PRINCIPAL MERIDIAN, AND THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 11 CENTERED ON THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE SOUTHWEST CORNER OF LOT 4 OF UNIVERSITY PARK DIVISION ACCORDING TO THE RECORDED PLAT THEREOF, CITY OF DULUTH, ST. LOUIS COUNTY, MINNESOTA; THENCE NORTH 89 DEGREES 41 MINUTES 50 SECONDS EAST ALONG THE SOUTH LINE OF SAID LOT 4 A DISTANCE OF 36.94 FEET, BEARINGS REFERENCED TO THE ST. LOUIS COUNTY TRANSVERSE MERCATOR 1996 COORDINATE SYSTEM, TO THE POINT OF BEGINNING AT CENTERLINE STATION 2+55;

THENCE SOUTHWESTERLY 87.77 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE SOUTHEAST, RADIUS 212.47 FEET, CENTRAL ANGLE OF 27 DEGREES 40 MINUTES 12 SECONDS, AND A CHORD BEARING SOUTH 55 DEGREES 30 MINUTES 27 SECONDS WEST;

THENCE SOUTHWESTERLY 62.11 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE NORTHWEST, RADIUS 94.43 FEET, CENTRAL ANGLE OF 37 DEGREES 41 MINUTES 10 SECONDS, AND A CHORD BEARING SOUTH 72 DEGREES 09 MINUTES 39 SECONDS WEST;

THENCE SOUTHWESTERLY 44.40 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE SOUTHEAST, RADIUS 39.58 FEET, CENTRAL ANGLE OF 64 DEGREES 16 MINUTES 27 SECONDS, AND A CHORD BEARING SOUTH 63 DEGREES 25 MINUTES 26 SECONDS WEST;

THENCE SOUTHWESTERLY AND NORTHWESTERLY 22.44 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE NORTH, RADIUS 14.19 FEET, CENTRAL ANGLE OF 90 DEGREES 38 MINUTES 36 SECONDS, AND A CHORD BEARING SOUTH 78 DEGREES 57 MINUTES 45 SECONDS WEST;

THENCE WESTERLY 186.34 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE SOUTH, RADIUS 167.84 FEET, CENTRAL ANGLE OF 63 DEGREES 36 MINUTES 40 SECONDS, AND A CHORD BEARING SOUTH 83 DEGREES 02 MINUTES 38 SECONDS WEST;

THENCE SOUTH 53 DEGREES 27 MINUTES 18 SECONDS WEST 121.82 FEET;

THENCE WESTERLY 90.05 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE NORTH, RADIUS 140.53 FEET, CENTRAL ANGLE OF 36 DEGREES 42 MINUTES 51 SECONDS, AND A CHORD BEARING SOUTH 75 DEGREES 22 MINUTES 29 SECONDS WEST;

THENCE SOUTHWESTERLY 66.62 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE SOUTHEAST, RADIUS 31.97 FEET, CENTRAL ANGLE OF 119 DEGREES 22 MINUTES 46 SECONDS, AND A CHORD BEARING SOUTH 52 DEGREES 32 MINUTES 54 SECONDS WEST;

THENCE SOUTHERLY 29.71 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 26.33 FEET, CENTRAL ANGLE OF 64 DEGREES 40 MINUTES 03 SECONDS, AND A CHORD BEARING SOUTH 19 DEGREES 19 MINUTES 51 SECONDS WEST;

THENCE NORTH 89 DEGREES 42 MINUTES 30 SECONDS WEST 34.56 FEET;

THENCE NORTH 59 DEGREES 13 MINUTES 32 SECONDS WEST 24.48 FEET;

THENCE SOUTH 79 DEGREES 25 MINUTES 25 SECONDS WEST 36.93 FEET;

THENCE WESTERLY 60.13 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE SOUTH, RADIUS 64.81 FEET, CENTRAL ANGLE OF 53 DEGREES 09 MINUTES 41 SECONDS, AND A CHORD BEARING SOUTH 85 DEGREES 11 MINUTES 53 SECONDS WEST;

THENCE SOUTHWESTERLY 137.03 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE NORTHWEST, RADIUS 228.99 FEET, CENTRAL ANGLE OF 34 DEGREES 17 MINUTES 11 SECONDS, AND A CHORD BEARING SOUTH 68 DEGREES 05 MINUTES 28 SECONDS WEST TO TRAIL STATION 12+58.50;

THENCE WESTERLY AND SOUTHERLY 90.77 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE SOUTHEAST, RADIUS 52.47 FEET, CENTRAL ANGLE OF 99 DEGREES 06 MINUTES 20 SECONDS, AND A CHORD BEARING SOUTH 38 DEGREES 57 MINUTES 29 SECONDS WEST TO TRAIL STATION 13+49.29, AND A TRAIL BRIDGE STARTING AT STATION 13+30;

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GREGORY STOEWER
DATE 04/08/2019

010-2710-03250 LEGAL
DESCRIPTION (PT 1 of 3)

15513.349

DULUTH TRAVERSE TRAIL

4 of 6

THENCE SOUTH 28 DEGREES 12 MINUTES 18 SECONDS EAST 37.86 FEET TO TRAIL STATION 13+91.63;
 THENCE SOUTHERLY 26.48 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 23.72 FEET, CENTRAL ANGLE OF 63 DEGREES 57 MINUTES 39 SECONDS, AND A CHORD BEARING SOUTH 4 DEGREES 22 MINUTES 38 SECONDS WEST TO TRAIL STATION 14+13.60, AND SAID TRAIL BRIDGE ENDING AT STATION 14+00;
 THENCE SOUTHERLY 172.81 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE EAST, RADIUS 98.80 FEET, CENTRAL ANGLE OF 100 DEGREES 12 MINUTES 58 SECONDS, AND A CHORD BEARING SOUTH 12 DEGREES 24 MINUTES 00 SECONDS EAST;
 THENCE SOUTH 60 DEGREES 32 MINUTES 34 SECONDS EAST 143.51 FEET;
 THENCE SOUTHERLY 125.11 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 128.97 FEET, CENTRAL ANGLE OF 55 DEGREES 34 MINUTES 59 SECONDS, AND A CHORD BEARING SOUTH 24 DEGREES 15 MINUTES 48 SECONDS EAST;
 THENCE SOUTH 29 DEGREES 34 MINUTES 42 SECONDS EAST 21.68 FEET;
 THENCE SOUTH 3 DEGREES 35 MINUTES 47 SECONDS EAST 16.12 FEET TO CENTERLINE STATION 18+97.25, BEING THE BEGINNING OF A SOUTHEASTERLY SPUR LINE TO PARKING LOT T2;
 THENCE CONTINUING SOUTH 3 DEGREES 35 MINUTES 47 SECONDS EAST 38.34 FEET;
 THENCE SOUTH 0 DEGREES 15 MINUTES 50 SECONDS WEST 66.68 FEET;
 THENCE SOUTHERLY 65.57 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE EAST, RADIUS 67.64 FEET, CENTRAL ANGLE OF 55 DEGREES 32 MINUTES 33 SECONDS, AND A CHORD BEARING SOUTH 23 DEGREES 02 MINUTES 06 SECONDS EAST;
 THENCE SOUTHEASTERLY AND SOUTHERLY 27.95 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 16.56 FEET, CENTRAL ANGLE OF 96 DEGREES 42 MINUTES 56 SECONDS, AND A CHORD BEARING SOUTH 30 DEGREES 01 MINUTES 37 SECONDS EAST;
 THENCE SOUTH 23 DEGREES 51 MINUTES 30 SECONDS WEST 86.35 FEET;
 THENCE SOUTH 14 DEGREES 36 MINUTES 15 SECONDS WEST 90.64 FEET MORE OR LESS TO A POINT ON THE SOUTH LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11 THAT IS 330.57 FEET WEST OF THE SOUTHEAST CORNER OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11, DESCRIBED LINE ENDS AT CENTERLINE STATION 22+68 MORE OR LESS AND SAID LINE THERE TERMINATING.

THE NORTHERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE SOUTH LINE OF SAID LOT 4.

THE SOUTHERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE SOUTH LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11.

AND ALSO

A TWENTY-FIVE FOOT WIDE EASEMENT OVER, UNDER AND ACROSS ALL THAT PART OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11, CONNECTING THE ABOVE DESCRIBED CENTERLINE TO PARKING LOT T2, AND CENTERED ON THE FOLLOWING DESCRIBED LINE:

BEGINNING AT SAID STATION 18+97.25 AND START SPUR LINE STATION 0+00;
 THENCE SOUTHEASTERLY 67.25 FEET ALONG A CURVE CONCAVE TO THE SOUTHWEST, RADIUS 93.55 FEET, CENTRAL ANGLE OF 41 DEGREES 11 MINUTES 06 SECONDS, AND A CHORD BEARING SOUTH 29 DEGREES 17 MINUTES 10 SECONDS EAST;
 THENCE SOUTHEASTERLY AND EASTERLY 27.75 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE NORTHEAST, RADIUS 16.11 FEET, CENTRAL ANGLE OF 98 DEGREES 40 MINUTES 29 SECONDS, AND A CHORD BEARING SOUTH 58 DEGREES 43 MINUTES 12 SECONDS EAST;
 THENCE EASTERLY 20.13 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE SOUTH, RADIUS 24.87 FEET, CENTRAL ANGLE OF 46 DEGREES 22 MINUTES 12 SECONDS, AND A CHORD BEARING SOUTH 84 DEGREES 24 MINUTES 18 SECONDS EAST;

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 GREGORY STOEWER
 04/08/2019 5:13:22 PM

010-2710-03250 LEGAL
 DESCRIPTION (PT. 2 of 3)

15513.349

DULUTH TRAVERSE TRAIL

5 of 6

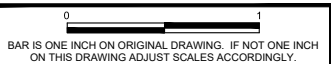
THENCE SOUTH 54 DEGREES 23 MINUTES 32 SECONDS EAST 69.04 FEET;
 THENCE SOUTHEASTERLY 72.84 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE NORTHEAST, RADIUS 103.27 FEET, CENTRAL ANGLE OF 40 DEGREES 24 MINUTES 44 SECONDS, AND A CHORD BEARING SOUTH 69 DEGREES 12 MINUTES 25 SECONDS EAST;
 THENCE EASTERLY 114.50 FEET MORE OR LESS ALONG A TANGENTIAL CURVE CONCAVE TO THE SOUTH, RADIUS 300.85 FEET, CENTRAL ANGLE OF 21 DEGREES 48 MINUTES 21 SECONDS, AND A CHORD BEARING SOUTH 75 DEGREES 18 MINUTES 16 SECONDS EAST TO THE EAST LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11, CENTERLINE STATION 3+55 MORE OR LESS AND SAID LINE THERE TERMINATING.

THE NORTHWESTERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE EAST LINE OF MAIN LINE EASEMENT.

THE SOUTHEASTERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE NORTH LINE OF PARKING LOT T2 AND THE EAST LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11.

SAID TRAIL BRIDGE REMAINS PROPERTY OF REGENTS OF THE UNIVERSITY OF MINNESOTA AND BRIDGE MAINTENANCE REMAINS RESPONSIBILITY OF SAID REGENTS.

PLOT DATE: Apr 30, 2019 - 10:55am
 FILE NAME: P:\Herrmann\Town-Office\Projects\TKDA\15513 Land Surveys\15513.349 UMD DT Trail\04_Production\01_CAD\01_Xrefs\15513.349 Duluth Traverse - UMD Survey.dwg



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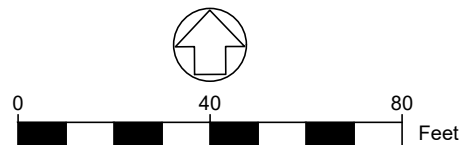
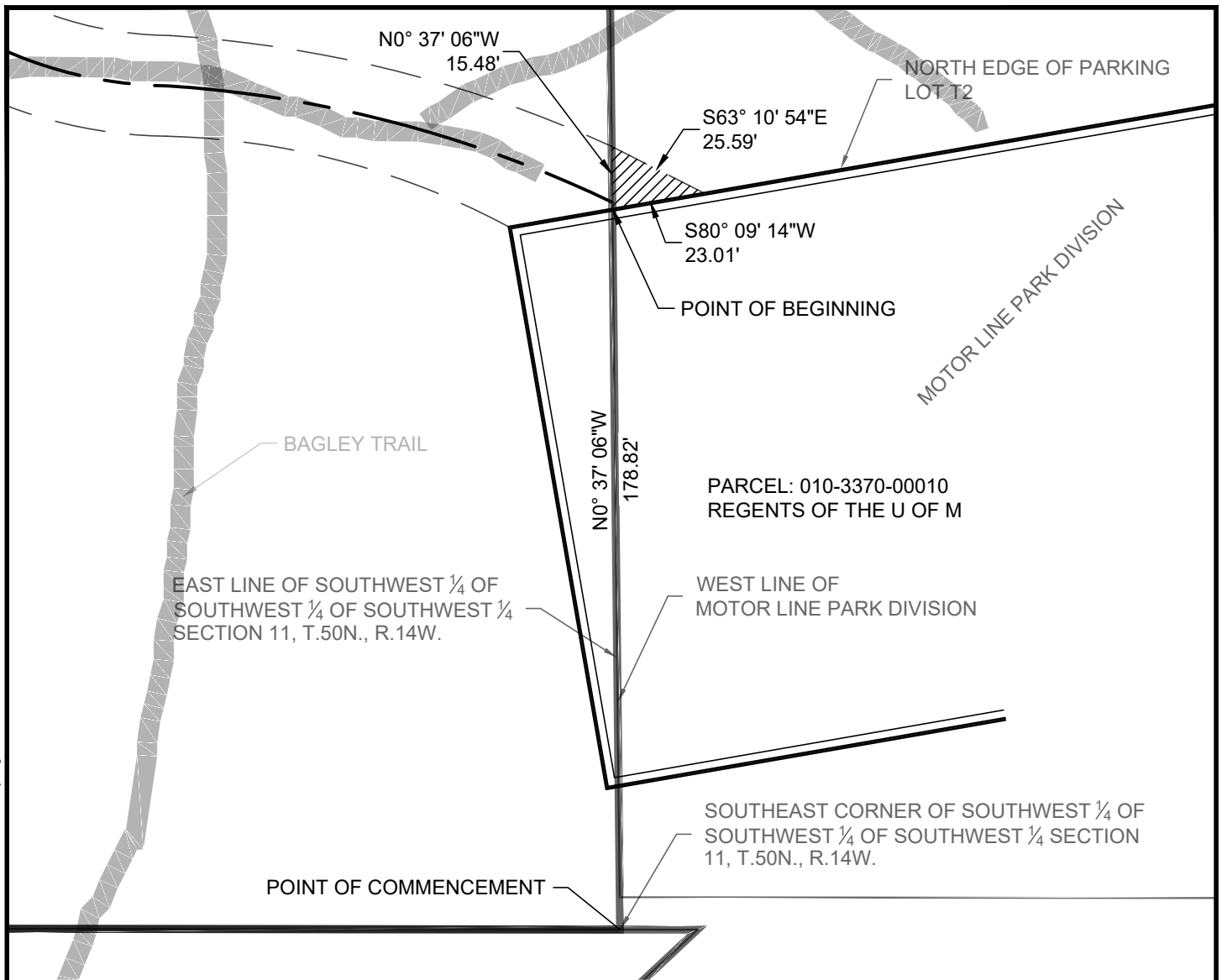
010-2710-03250 LEGAL
 DESCRIPTION (PT 3 OF 3)

15513.349

DULUTH TRAVERSE TRAIL

6 of 6

PLOT DATE: Apr 30, 2019 - 10:55am
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BASIS OF BEARING:

SLCTM 96

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ST. LOUIS COUNTY GIS PARCEL LINES ARE USED.

////// DULUTH TRAVERSE TRAIL EASEMENT

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DATE 04/08/2019 5:13:23 PM
GREGORY STOEVE

010-3370-00010

15513.349

DULUTH TRAVERSE TRAIL

1 of 2

A PERMANENT EASEMENT FOR DULUTH TRAVERSE TRAIL IN PARCEL ID 010-3370-00010

AN EASEMENT OVER, UNDER AND ACROSS ALL THAT PART OF MOTOR LINE PARK DIVISION ACCORDING TO THE RECORDED PLAT THEREOF, CITY OF DULUTH, ST. LOUIS COUNTY, MINNESOTA, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11, TOWNSHIP 50 WEST, RANGE 14 WEST OF THE FOURTH PRINCIPAL MERIDIAN;

THENCE NORTH 0 DEGREES 37 MINUTES 06 SECONDS WEST ALONG THE EAST LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11, ALSO BEING THE WEST LINE OF SAID MOTOR LINE PARK DIVISION, A DISTANCE OF 178.82 FEET TO THE NORTH LINE OF PARKING LOT T2, FOR A POINT OF BEGINNING, BEARINGS REFERENCED TO THE ST. LOUIS COUNTY TRANSVERSE MERCATOR 1996 COORDINATE SYSTEM;

THENCE CONTINUING NORTH 0 DEGREES 37 MINUTES 06 SECONDS WEST ALONG THE EAST LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11 A DISTANCE OF 15.48 FEET;

THENCE SOUTH 63 DEGREES 10 MINUTES 54 SECONDS EAST 25.59 FEET TO THE NORTH LINE OF PARKING LOT T2;

THENCE SOUTH 80 DEGREES 00 MINUTES 14 SECONDS WEST ALONG THE NORTH LINE OF PARKING LOT T2 TO THE POINT OF BEGINNING.

PLOT DATE: Apr 30, 2019 - 10:55am
FILE NAME: P:\Herrnstown-Office\Projects\TKDA\15513.349 UMD DT Trail\04_Production\01_CAD\01_Xrefs\15513.349 Duluth Traverse - UMD Survey.dwg

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04/30/2019 5:13:23 PM
DATE 04/08/2019

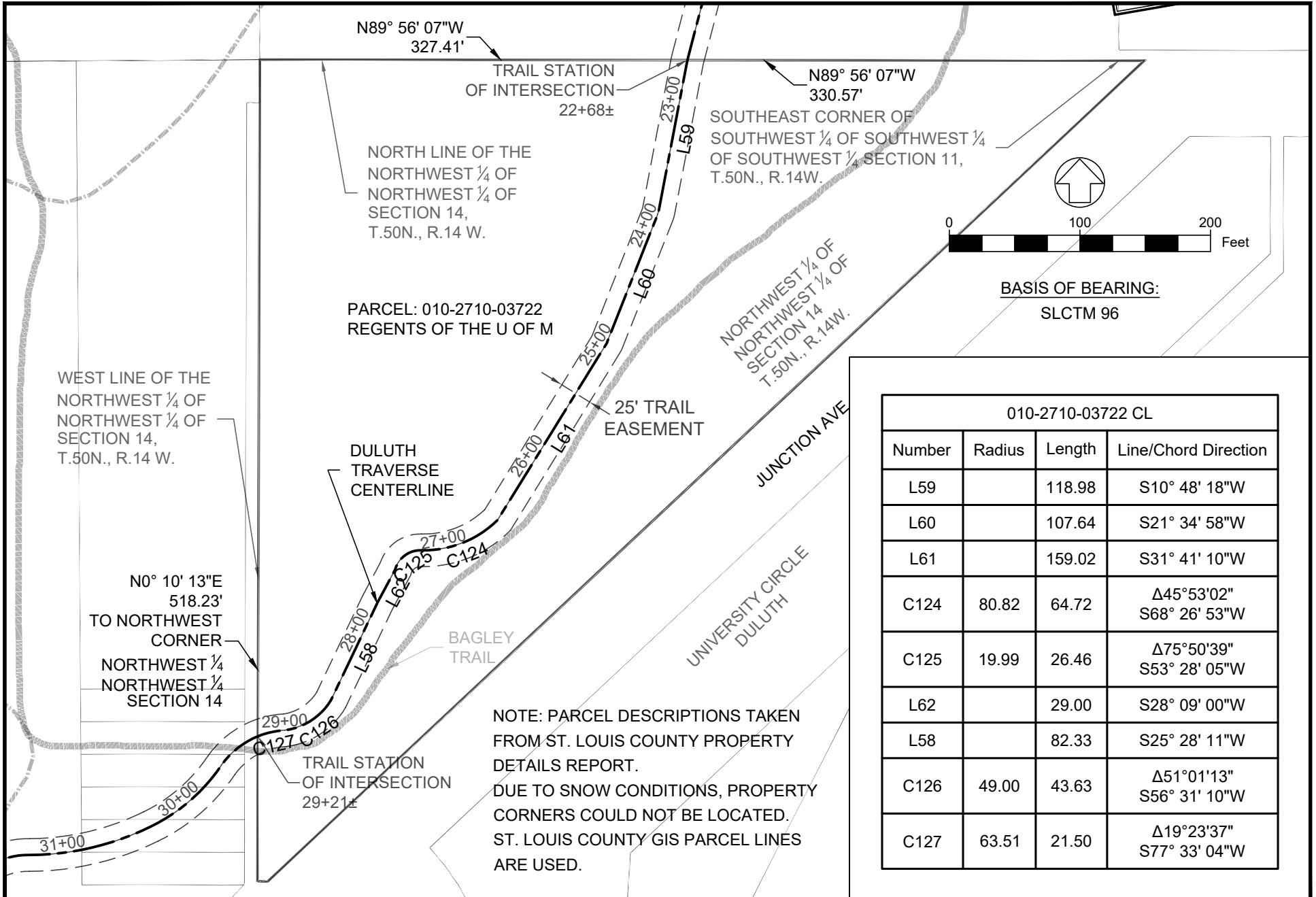
010-3370-00010
LEGAL DESCRIPTION

15513.349

DULUTH TRAVERSE TRAIL

2 of 2

PLOT DATE: Apr 30, 2019 - 10:55am
FILE NAME: P:\Hermantown-Office\Projects\TKDA\15513.349 UMD DT Trail\04_Production\01_CAD\01_Xref\15513.349 Duluth Traverse - UMD Survey.dwg



BASIS OF BEARING:
SLCTM 96

010-2710-03722 CL			
Number	Radius	Length	Line/Chord Direction
L59		118.98	S10° 48' 18"W
L60		107.64	S21° 34' 58"W
L61		159.02	S31° 41' 10"W
C124	80.82	64.72	Δ45°53'02" S68° 26' 53"W
C125	19.99	26.46	Δ75°50'39" S53° 28' 05"W
L62		29.00	S28° 09' 00"W
L58		82.33	S25° 28' 11"W
C126	49.00	43.63	Δ51°01'13" S56° 31' 10"W
C127	63.51	21.50	Δ19°23'37" S77° 33' 04"W

NOTE: PARCEL DESCRIPTIONS TAKEN FROM ST. LOUIS COUNTY PROPERTY DETAILS REPORT.
DUE TO SNOW CONDITIONS, PROPERTY CORNERS COULD NOT BE LOCATED.
ST. LOUIS COUNTY GIS PARCEL LINES ARE USED.



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GREGORY STOEWER

DATE 03/11/2019

010-2710-03722
LAYOUT

DULUTH TRAVERSE TRAIL

15513.349

1 of 2

A PERMANENT EASEMENT FOR DULUTH TRAVERSE TRAIL IN PARCEL ID 010-2710-03722

A TWENTY-FIVE FOOT WIDE EASEMENT OVER, UNDER AND ACROSS ALL THAT PART OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 14, TOWNSHIP 50 WEST, RANGE 14 WEST OF THE FOURTH PRINCIPAL MERIDIAN CENTERED ON THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11, TOWNSHIP 50 WEST, RANGE 14 WEST OF THE FOURTH PRINCIPAL MERIDIAN; THENCE NORTH 89 DEGREES 56 MINUTES 07 SECONDS WEST ALONG THE SOUTH LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11 A DISTANCE OF 330.57 FEET, BEARINGS REFERENCED TO THE ST. LOUIS COUNTY TRANSVERSE MERCATOR 1996 COORDINATE SYSTEM, TO THE POINT OF BEGINNING, CENTERLINE STATION 22+68;

THENCE SOUTH 10 DEGREES 48 MINUTES 18 SECONDS WEST 118.98 FEET;

THENCE SOUTH 21 DEGREES 34 MINUTES 58 SECONDS WEST 107.64 FEET;

THENCE SOUTH 31 DEGREES 41 MINUTES 10 SECONDS WEST 159.02 FEET;

THENCE SOUTHWESTERLY 64.72 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE NORTHWEST, RADIUS 80.82 FEET, CENTRAL ANGLE OF 45 DEGREES 53 MINUTES 02 SECONDS, AND A CHORD BEARING SOUTH 68 DEGREES 26 MINUTES 53 SECONDS WEST;

THENCE SOUTHWESTERLY 26.46 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE SOUTHEAST, RADIUS 19.99 FEET, CENTRAL ANGLE OF 75 DEGREES 50 MINUTES 39 SECONDS, AND A CHORD BEARING SOUTH 53 DEGREES 28 MINUTES 05 SECONDS WEST;

THENCE SOUTH 28 DEGREES 09 MINUTES 00 SECONDS WEST 29.00 FEET;

THENCE SOUTH 25 DEGREES 27 MINUTES 46 SECONDS WEST 82.33 FEET;

THENCE SOUTHWESTERLY 77.12 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE NORTHWEST, RADIUS 108.03 FEET, CENTRAL ANGLE OF 40 DEGREES 54 MINUTES 11 SECONDS, AND A CHORD BEARING SOUTH 48 DEGREES 04 MINUTES 24 SECONDS WEST TO A POINT ON THE WEST LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 14 THAT IS 540.78 FEET SOUTH OF THE NORTHWEST CORNER OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 14, CENTERLINE STATION 29+21 MORE OR LESS AND SAID LINE THERE TERMINATING.

THE NORTHERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON SAID SOUTH LINE OF SAID SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 11.

THE WESTERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE WEST LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 14.

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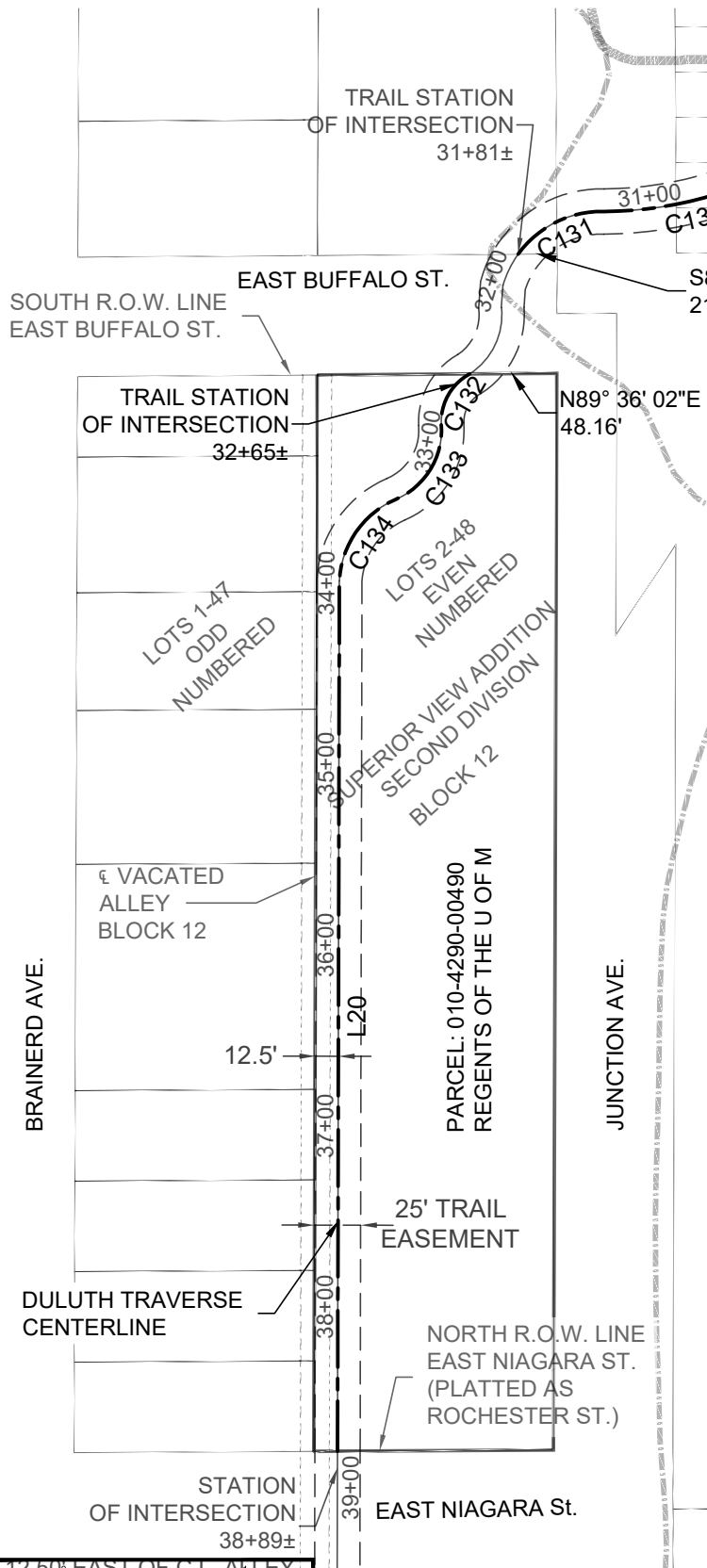
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LEGAL DESCRIPTION

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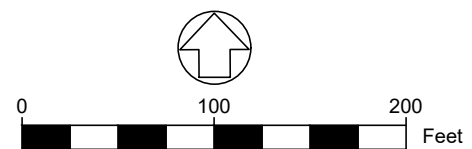
DULUTH TRAVERSE TRAIL

2 of 2

PLOT DATE: Apr 30, 2019 - 10:56am
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010-4290-00490 CL			
Number	Radius	Length	Line/Chord Direction
C132	30.19	33.55	$\Delta 63^{\circ}39'25''$ S29° 30' 27"W
C133	41.60	51.91	$\Delta 71^{\circ}30'34''$ S31° 06' 28"W
C134	51.87	57.79	$\Delta 63^{\circ}49'48''$ S34° 37' 38"W
L20		480.97	S0° 07' 17"W



BASIS OF BEARING:
 SLCTM 96

NOTE: PARCEL DESCRIPTIONS TAKEN FROM ST. LOUIS COUNTY PROPERTY DETAILS REPORT. DUE TO SNOW CONDITIONS, PROPERTY CORNERS COULD NOT BE LOCATED. ST. LOUIS COUNTY GIS PARCEL LINES ARE USED.

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 GREGORY STOEVEBERG
 DATE: 04/08/2019

010-4290-00490

15513.349

DULUTH TRAVERSE TRAIL

1 of 2

A PERMANENT EASEMENT FOR DULUTH TRAVERSE TRAIL IN PARCEL ID 010-4290-00490

A TWENTY-FIVE FOOT WIDE EASEMENT OVER, UNDER AND ACROSS ALL THAT PART OF VACATED BLOCK 12 ALLEY AND EVEN-NUMBERED LOTS 2 THROUGH 48 OF BLOCK 12, SUPERIOR VIEW ADDITION SECOND DIVISION ACCORDING TO THE RECORDED PLAT THEREOF, CITY OF DULUTH, ST. LOUIS COUNTY, MINNESOTA CENTERED ON THE FOLLOWING DESCRIBED LINE:

COMMENCING AT A POINT ON THE NORTH LINE OF SAID BLOCK 12 THAT IS DISTANT 48.16 FEET WEST OF THE NORTHEAST CORNER OF SAID BLOCK 12, SAID POINT IS POINT OF BEGINNING AT LINE STATION 39+55;

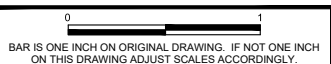
THENCE SOUTHERLY 33.55 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE EAST, RADIUS 30.19 FEET, CENTRAL ANGLE OF 63 DEGREES 39 MINUTES 25 SECONDS, AND A CHORD BEARING SOUTH 29 DEGREES 30 MINUTES 27 SECONDS WEST;

THENCE SOUTHWESTERLY 51.91 FEET ALONG A REVERSE CURVE CONCAVE TO THE NORTHWEST, RADIUS 41.60 FEET, CENTRAL ANGLE OF 71 DEGREES 30 MINUTES 34 SECONDS, AND A CHORD BEARING SOUTH 31 DEGREES 06 MINUTES 28 SECONDS WEST;

THENCE SOUTHERLY 57.79 FEET ALONG A REVERSE CURVE CONCAVE TO THE SOUTHEAST, RADIUS 51.87 FEET, CENTRAL ANGLE OF 63 DEGREES 49 MINUTES 48 SECONDS, AND A CHORD BEARING SOUTH 34 DEGREES 37 MINUTES 38 SECONDS WEST TO A POINT THAT IS 12.50 FEET EAST OF THE CENTERLINE OF SAID VACATED ALLEY OF BLOCK 12;

THENCE SOUTH 0 DEGREES 07 MINUTES 17 SECONDS WEST ALONG A LINE PARALLEL WITH AND DISTANT EAST 12.50 FEET FROM SAID CENTERLINE OF VACATED ALLEY A DISTANCE OF 480.97 FEET MORE OR LESS TO THE SOUTH LINE OF SAID BLOCK 12, CENTERLINE STATION 38+89 MORE OR LESS AND SAID LINE THERE TERMINATING.

THE NORTHERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE NORTH LINE OF SAID BLOCK 12.



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GREGORY STOEVE
04/08/2019 5:13:23 PM

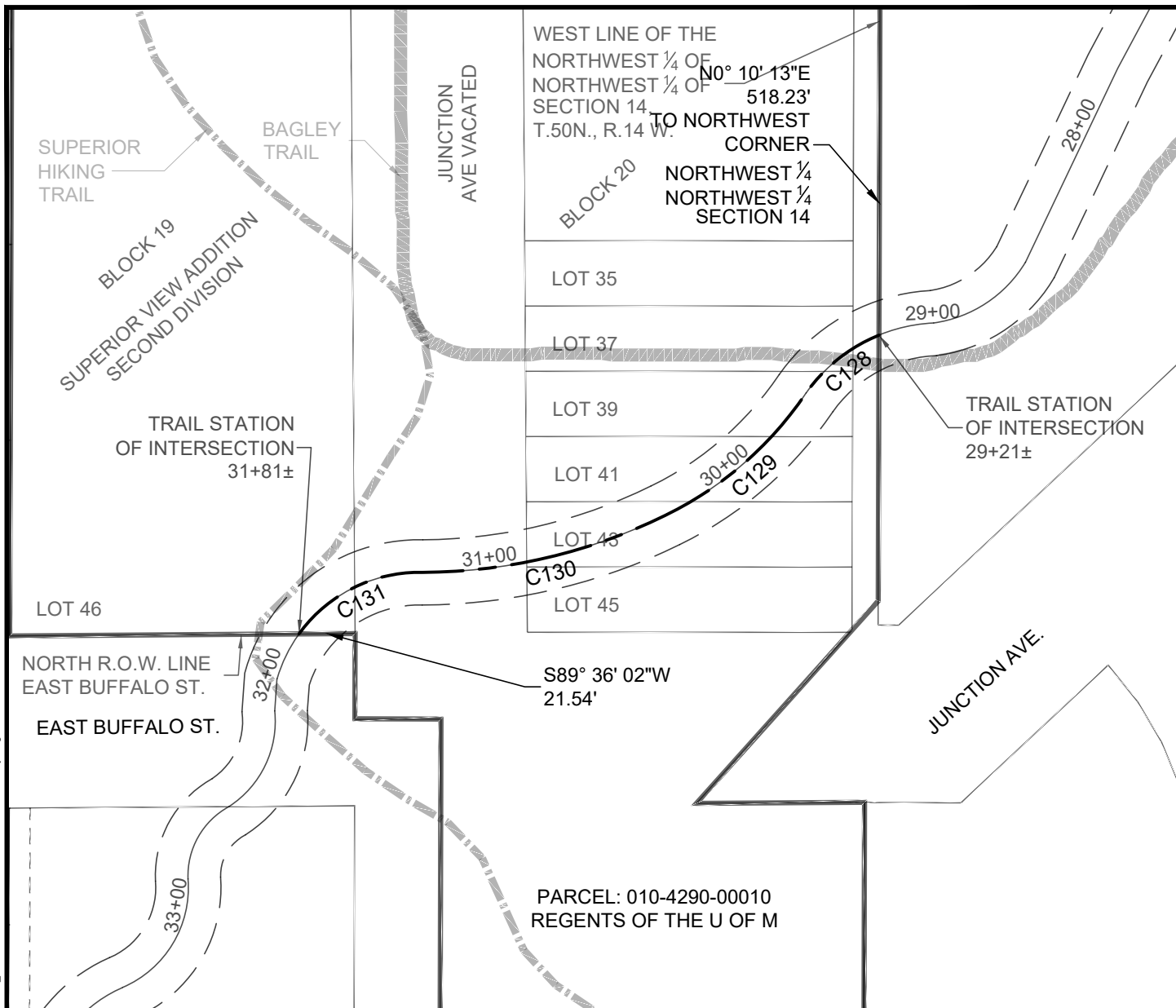
010-4290-00490
LEGAL DESCRIPTION

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DULUTH TRAVERSE TRAIL

2 of 2

PLOT DATE: Apr 30, 2019 - 10:56am
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010-4290-00010 CL			
Number	Radius	Length	Line/Chord Direction
C128	63.18	36.18	$\Delta 32^{\circ}48'44''$ S51° 32' 11"W
C129	137.61	72.29	$\Delta 30^{\circ}05'47''$ S49° 01' 21"W
C130	212.92	96.35	$\Delta 25^{\circ}55'40''$ S76° 46' 28"W
C131	56.80	55.03	$\Delta 55^{\circ}31'01''$ S63° 32' 48"W

0 1
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 DATE 04/08/2019

010-4290-00010

15513.349

DULUTH TRAVERSE TRAIL

1 of 2

A PERMANENT EASEMENT FOR DULUTH TRAVERSE TRAIL IN PARCEL ID 010-4290-00010

A TWENTY-FIVE FOOT WIDE EASEMENT OVER, UNDER AND ACROSS ALL THAT PART OF VACATED BLOCK 20 ALLEY, VACATED JUNCTION AVENUE, LOT 46 OF BLOCK 19 AND LOTS 37, 39, 41, 43 AND 45 OF BLOCK 20, SUPERIOR VIEW ADDITION SECOND DIVISION ACCORDING TO THE RECORDED PLAT THEREOF, CITY OF DULUTH, ST. LOUIS COUNTY, MINNESOTA CENTERED ON THE FOLLOWING DESCRIBED LINE:

BEGINNING AT A POINT ON THE WEST LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 14, TOWNSHIP 50 NORTH, RANGE 14 WEST, DISTANT 540.78 FEET SOUTH OF THE NORTHWEST CORNER OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 14, CENTERLINE STATION 29+21 MORE OR LESS; THENCE SOUTHWESTERLY 36.18 FEET ALONG A NON-TANGENTIAL CURVE CONCAVE TO THE SOUTHEAST, RADIUS 63.18 FEET, CENTRAL ANGLE OF 32 DEGREES 48 MINUTES 44 SECONDS, AND A CHORD BEARING SOUTH 51 DEGREES 32 MINUTES 11 SECONDS WEST;

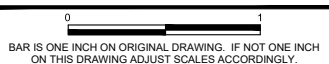
THENCE SOUTHWESTERLY 72.29 FEET ALONG A REVERSE CURVE CONCAVE TO THE NORTHWEST, RADIUS 137.61 FEET, CENTRAL ANGLE OF 30 DEGREES 05 MINUTES 47 SECONDS, AND A CHORD BEARING SOUTH 49 DEGREES 01 MINUTES 21 SECONDS WEST;

THENCE WESTERLY 96.35 FEET ALONG A TANGENT CURVE CONCAVE TO THE NORTH, RADIUS 212.92 FEET, CENTRAL ANGLE OF 25 DEGREES 55 MINUTES 40 SECONDS, AND A CHORD BEARING SOUTH 76 DEGREES 46 MINUTES 28 SECONDS WEST;

THENCE SOUTHWESTERLY 55.03 FEET ALONG A REVERSE CURVE CONCAVE TO THE SOUTHEAST, RADIUS 56.80 FEET, CENTRAL ANGLE OF 55 DEGREES 31 MINUTES 01 SECONDS, AND A CHORD BEARING SOUTH 63 DEGREES 32 MINUTES 48 SECONDS WEST TO A POINT THAT IS ON THE SOUTH LINE OF SAID LOT 46 THAT IS 21.54 FEET WEST OF THE SOUTHEAST CORNER OF LOT 46, AT CENTERLINE STATION 31+81 MORE OR LESS, SAID LINE THERE TERMINATING.

THE EASTERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE WEST LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 14.

THE WESTERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE SOUTH LINE OF SAID LOT 46.



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GREGORY STOEVEBERG
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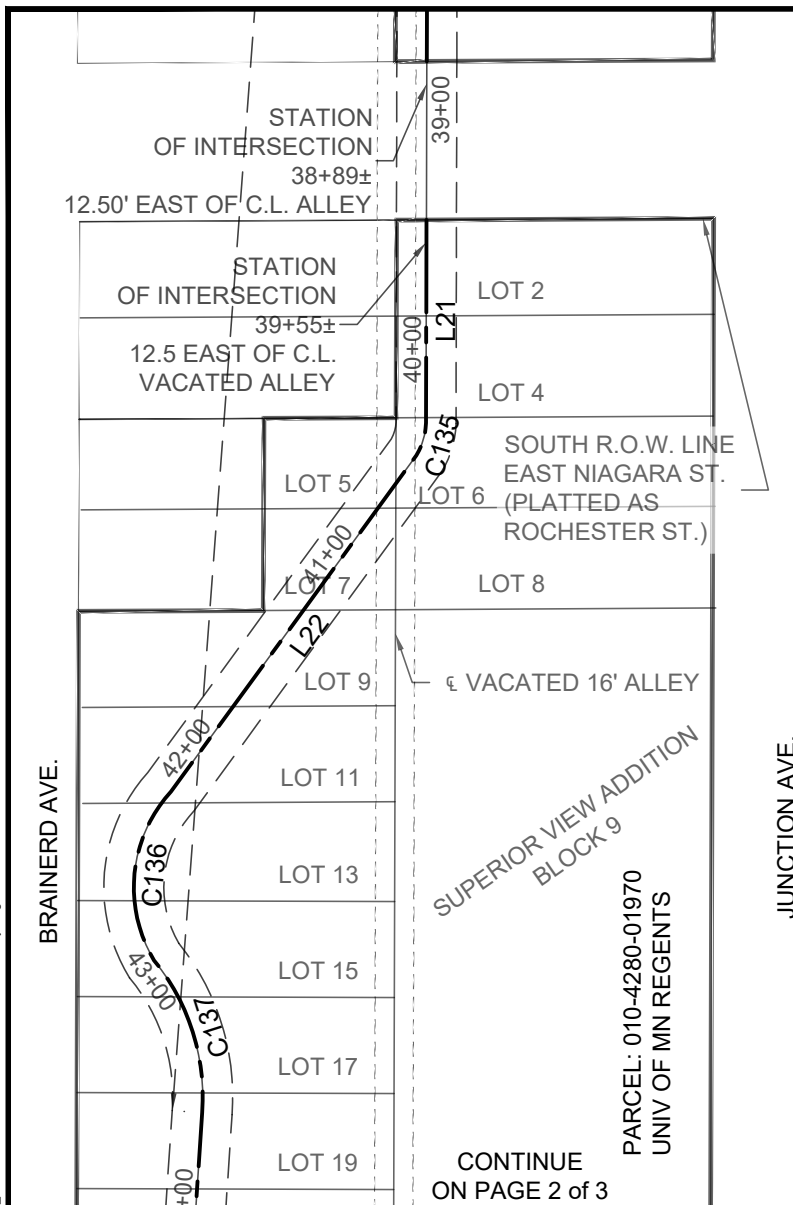
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LEGAL DESCRIPTION

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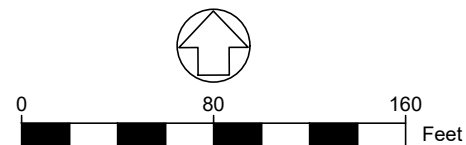
DULUTH TRAVERSE TRAIL

2 of 2

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010-4260-01970 CL			
Number	Radius	Length	Line/Chord Direction
L21		84.55	S0° 07' 12"W
C135	28.20	14.23	Δ28°55'26" S16° 25' 24"W
L22		173.46	S36° 07' 43"W
C136	59.12	75.75	Δ73°24'42" S5° 43' 40"W
C137	89.58	68.13	Δ43°34'26" S17° 31' 21"E
L23		209.06	S3° 47' 29"W
C138	70.85	51.93	Δ42°00'03" S24° 08' 58"W
C139	68.11	54.50	Δ45°50'48" S23° 32' 12"W
L24		35.43	S5° 46' 35"E
C140	45.94	45.71	Δ57°00'53" S34° 59' 16"E
C141	17.43	37.14	Δ122°04'15" S11° 03' 32"E
C142	36.54	40.73	Δ63°52'17" S18° 56' 42"W
C143	52.67	43.78	Δ47°37'50" S13° 11' 09"W
C144	12.57	11.43	Δ52°07'36" S65° 58' 51"W



BASIS OF BEARING:
SLCTM 96

NOTE: PARCEL DESCRIPTIONS TAKEN FROM
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REPORT.
DUE TO SNOW CONDITIONS, PROPERTY
CORNERS COULD NOT BE LOCATED.
ST. LOUIS COUNTY GIS PARCEL LINES ARE
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GREGORY STOEVEBERG
DATE 04/08/2019

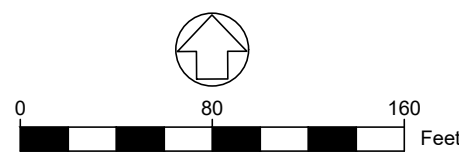
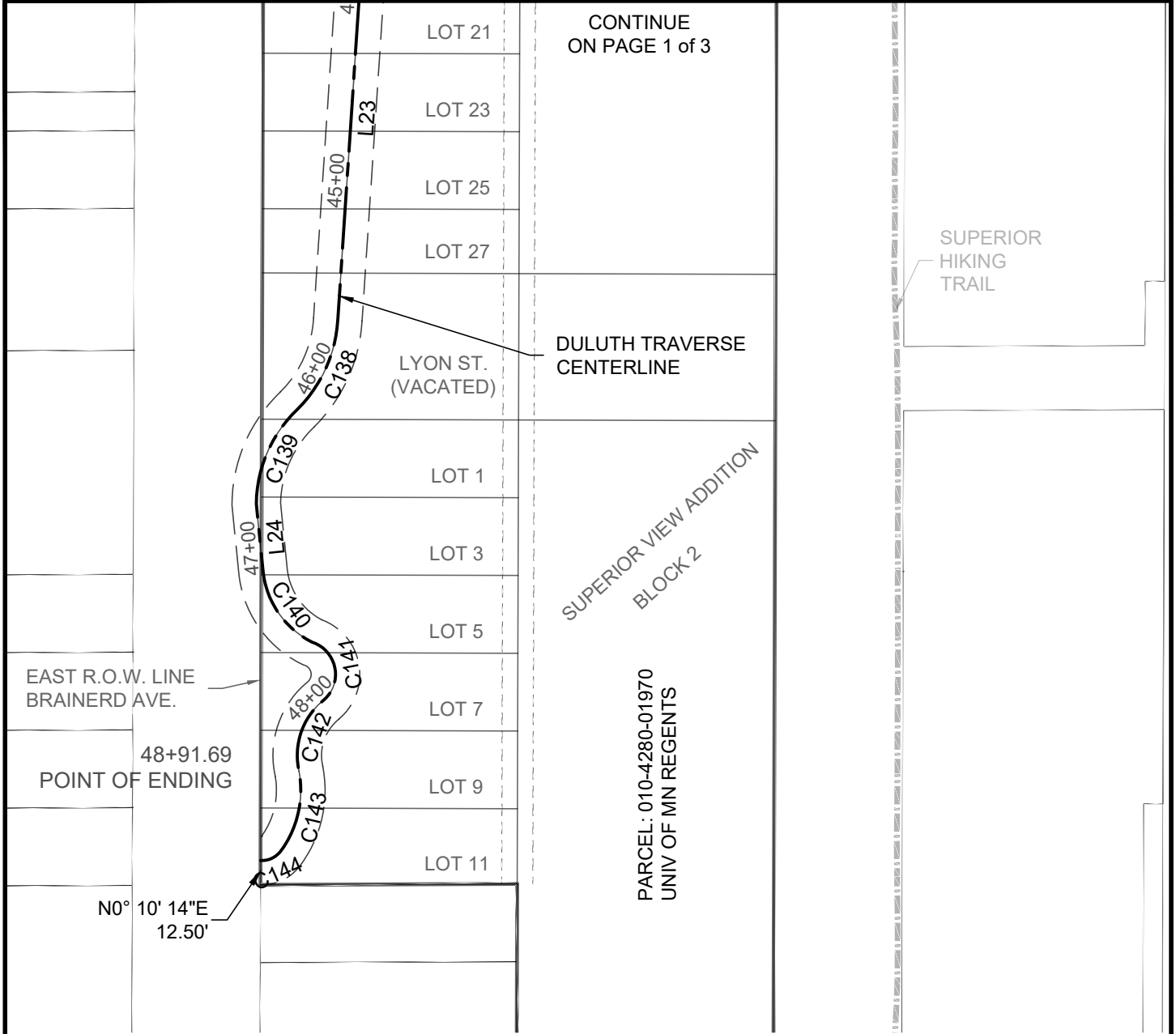
010-4280-01970

15513.349

DULUTH TRAVERSE TRAIL

1 of 3

PLOT DATE: Apr 30, 2019 - 10:56am
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BASIS OF BEARING:

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DATE 04/08/2019
5:13:23 PM

010-4280-1970	15513.349
DULUTH TRAVERSE TRAIL	2 of 3

A PERMANENT EASEMENT FOR DULUTH TRAVERSE TRAIL IN PARCEL ID 010-4280-01970

A TWENTY-FIVE FOOT WIDE EASEMENT OVER, UNDER AND ACROSS ALL THAT PART OF VACATED BLOCK 9 ALLEY, VACATED LYONS STREET, LOTS 2, 4, 6 AND ODD-NUMBERED LOTS 5 THROUGH 27 OF BLOCK 9 AND ODD-NUMBERED LOTS 1 THROUGH 11 OF BLOCK 2, SUPERIOR VIEW ADDITION ACCORDING TO THE RECORDED PLAT THEREOF, CITY OF DULUTH, ST. LOUIS COUNTY, MINNESOTA CENTERED ON THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE INTERSECTION OF THE NORTH LINE OF SAID BLOCK 9 WITH A LINE THAT IS PARALLEL WITH AND 12.50 FEET EAST OF THE CENTERLINE OF VACATED BLOCK 9 ALLEY FOR A POINT OF BEGINNING AT LINE STATION 39+55; THENCE SOUTH 0 DEGREES 07 MINUTES 12 SECONDS WEST ALONG SAID PARALLEL LINE 84.55 FEET, BEARINGS REFERENCED TO THE ST. LOUIS COUNTY TRANSVERSE MERCATOR 1996 COORDINATE SYSTEM; THENCE SOUTHERLY 14.23 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 28.20 FEET, CENTRAL ANGLE OF 28 DEGREES 55 MINUTES 26 SECONDS, AND A CHORD BEARING SOUTH 16 DEGREES 25 MINUTES 24 SECONDS WEST; THENCE SOUTH 36 DEGREES 07 MINUTES 43 SECONDS WEST 173.46 FEET, THENCE SOUTHERLY 75.75 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE EAST, RADIUS 59.12 FEET, CENTRAL ANGLE OF 73 DEGREES 24 MINUTES 42 SECONDS, AND A CHORD BEARING SOUTH 5 DEGREES 43 MINUTES 40 SECONDS WEST; THENCE SOUTHERLY 68.13 FEET ALONG A REVERSE CURVE CONCAVE TO THE WEST, RADIUS 89.58 FEET, CENTRAL ANGLE OF 43 DEGREES 34 MINUTES 26 SECONDS, AND A CHORD BEARING SOUTH 17 DEGREES 31 MINUTES 21 SECONDS EAST; THENCE SOUTH 3 DEGREES 47 MINUTES 29 SECONDS WEST 209.06 FEET; THENCE SOUTHERLY 51.93 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE WEST, RADIUS 70.85 FEET, CENTRAL ANGLE OF 42 DEGREES 00 MINUTES 03 SECONDS, AND A CHORD BEARING SOUTH 24 DEGREES 08 MINUTES 58 SECONDS WEST; THENCE SOUTHERLY 54.50 FEET ALONG A REVERSE CURVE CONCAVE TO THE EAST, RADIUS 68.11 FEET, CENTRAL ANGLE OF 45 DEGREES 50 MINUTES 48 SECONDS, AND A CHORD BEARING SOUTH 23 DEGREES 32 MINUTES 12 SECONDS WEST; THENCE SOUTH 5 DEGREES 46 MINUTES 35 SECONDS EAST 35.43 FEET; THENCE SOUTHEASTERLY 45.71 FEET ALONG A TANGENTIAL CURVE CONCAVE TO THE NORTHEAST, RADIUS 45.94 FEET, CENTRAL ANGLE OF 57 DEGREES 00 MINUTES 53 SECONDS, AND A CHORD BEARING SOUTH 34 DEGREES 59 MINUTES 16 SECONDS EAST; THENCE SOUTHERLY 37.14 FEET ALONG A REVERSE CURVE CONCAVE TO THE WEST, RADIUS 17.43 FEET, CENTRAL ANGLE OF 122 DEGREES 04 MINUTES 15 SECONDS, AND A CHORD BEARING SOUTH 11 DEGREES 03 MINUTES 32 SECONDS EAST; THENCE SOUTHERLY 40.73 FEET ALONG A REVERSE CURVE CONCAVE TO THE EAST, RADIUS 36.54 FEET, CENTRAL ANGLE OF 63 DEGREES 52 MINUTES 17 SECONDS, AND A CHORD BEARING SOUTH 18 DEGREES 56 MINUTES 42 SECONDS WEST; THENCE SOUTHERLY 43.78 FEET ALONG A REVERSE CURVE CONCAVE TO THE WEST, RADIUS 52.67 FEET, CENTRAL ANGLE OF 47 DEGREES 37 MINUTES 50 SECONDS, AND A CHORD BEARING SOUTH 13 DEGREES 11 MINUTES 09 SECONDS WEST; THENCE SOUTHWESTERLY 11.43 FEET MORE OR LESS ALONG A REVERSE CURVE CONCAVE TO THE NORTHWEST, RADIUS 12.57 FEET, CENTRAL ANGLE OF 52 DEGREES 07 MINUTES 36 SECONDS, AND A CHORD BEARING SOUTH 65 DEGREES 58 MINUTES 51 SECONDS WEST TO THE WEST LINE OF SAID BLOCK 2, CENTERLINE STATION 49+00.95 AND SAID LINE THERE TERMINATING.

THE WESTERLY SIDELINES OF SAID EASEMENT ARE PROLONGED OR SHORTENED TO TERMINATE ON THE WEST LINE OF SAID BLOCK 2.

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BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH
ON THIS DRAWING ADJUST SCALES ACCORDINGLY.



11 E. Superior Street, Suite 420
Duluth, MN 55802
218.724.8578
tkda.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICALLY THIS
REPORT WAS PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A LICENSED SURVEYOR
UNDER THE LAWS OF THE STATE OF MINNESOTA
GREGORY STOEWER 04/08/2019 5:13:23 PM

010-4280-1970 LEGAL
DESCRIPTION

15513.349

DULUTH TRAVERSE TRAIL

3 of 3