



**WOLVERINE ENGINEERS
AND SURVEYORS, INC.**

312 North St., Mason, MI 48854
(517) 676-9200 Fax (517) 676-9396

04-0401-A

JOB SEC 6 VEWAY TWP

SHEET NO. _____ OF _____

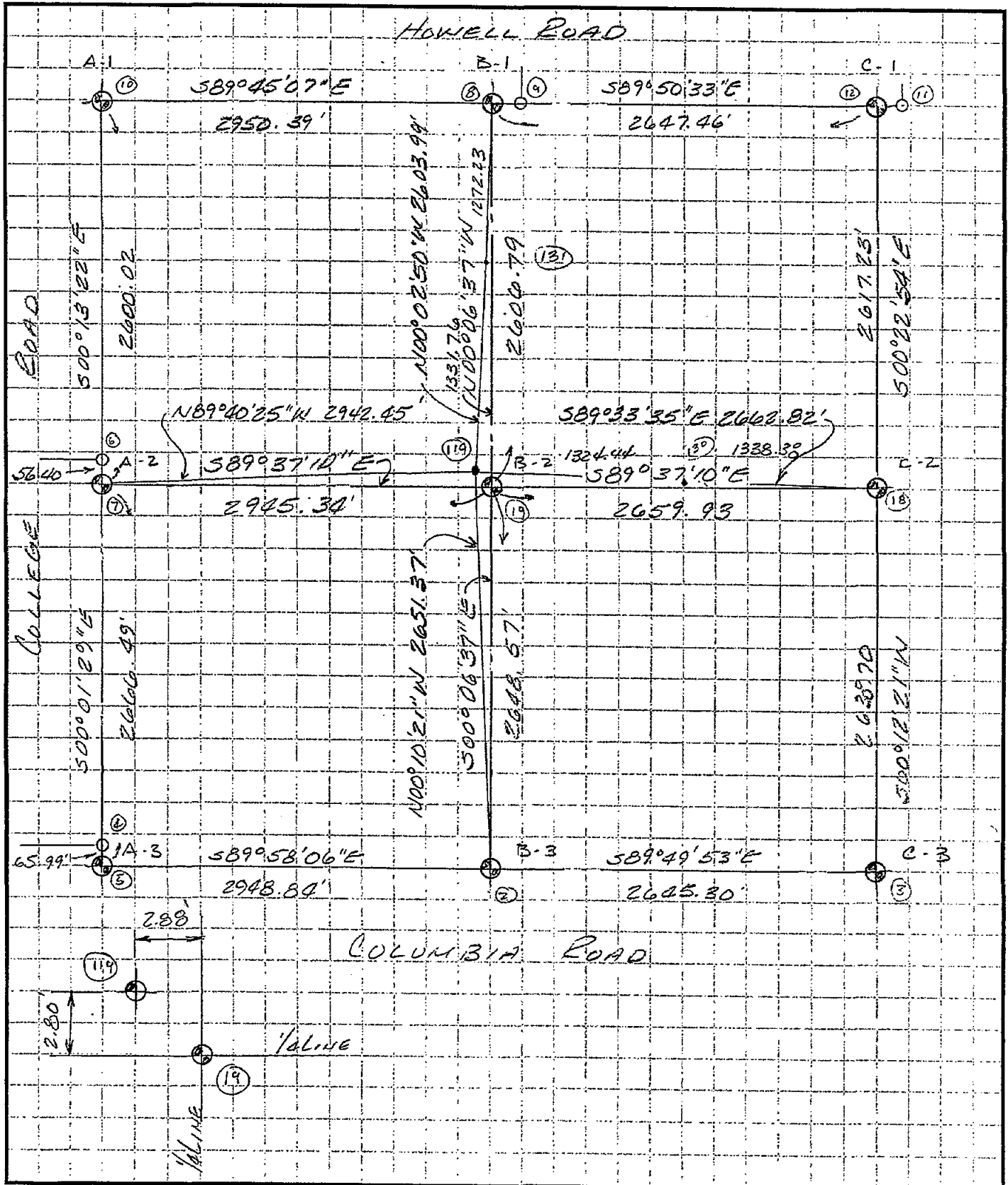
CALCULATED BY M.H.M

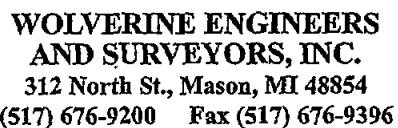
DATE 4-13-05

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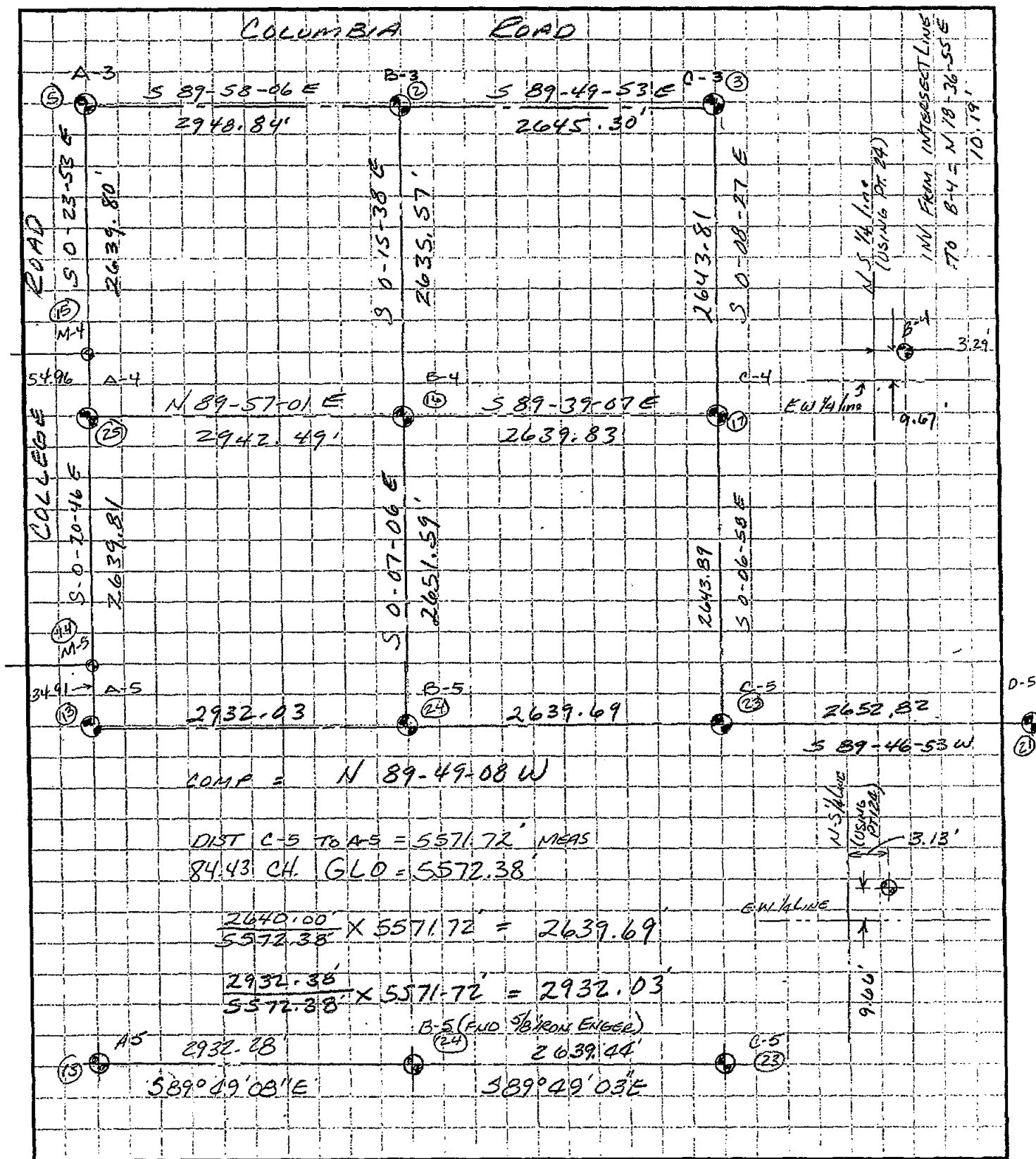
DATE _____

SCALE _____





SCALE SSC 7 TZN-RIW VEVAY TWP



PROJECT:
DESCRIPTION:
FILE: 04-0401-ab.cgo
UNITS: U.S. SURVEY FOOT

Wednesday, April 13, 2005
11:36 AM
PAGE 1

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New Cogo File
File Name: untitled
Size: 100
Created: 03-16-2005
Last Edited: 03-16-2005
Project No.:
Description:

Using North Azimuths

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LIST	2	10000.0000	2077.6282	
LIST	3	10851.6724	8680.0556	
LIST	4	10297.1204	8679.5774	
LIST	5	9988.9192	4565.0317	
LIST	6	10000.0000	8679.3212	
LIST	7	10000.0000	7358.6424	
LIST	8	10000.0000	4718.1353	
LIST	100	10000.0000	4565.0317	
LIST	101	9988.2373	4718.1020	
LIST	106	9997.0589	8679.3187	
LIST	107	9994.1177	7358.6366	
LIST	108	9988.2373	4718.1020	
LIST	201	11313.8085	9673.5857	
LIST	202	11349.3041	8601.0329	
LIST	203	10490.8303	8909.8322	
LIST	204	11819.6390	8008.5789	
LIST	205	12180.5028	7641.5028	
LIST	206	12630.2908	6546.7078	
LIST	207	12638.4016	2287.0555	
LIST	208	11404.6251	2574.8154	
LIST	209	10197.5066	3126.0146	
LIST	210	9827.8359	3284.9019	
LIST	211	9951.8752	2714.0219	
LIST	212	9932.4645	3630.2608	
LIST	213	9969.6314	2093.6160	
LIST	215	10624.2721	8696.6644	
LIST	216	10645.8675	8582.6007	
LIST	217	10397.3210	8188.8192	
LIST	218	10262.6673	7843.3969	
LIST	219	10141.4606	7656.9040	
LIST	220	9888.1057	3757.4896	
LIST	221	9904.2396	4484.8906	
LIST	222	9988.2379	4718.1047	
LIST	225	6669.2296	4717.0308	
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LIST	229	6100.7293	4965.3080	
LIST	230	5260.3375	5188.7936	
LIST	231	4732.1258	4714.9684	

PROJECT:
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LIST	232	4808.0238	3808.2310
LIST	233	4352.5448	3382.9168
LIST	234	4627.5854	2687.2757
LIST	235	4767.3010	2505.4444
LIST	236	4732.4560	2086.0294
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LIST	241	9347.6319	3509.8721
DELETE	1	10000.0000	10000.0000
DELETE	2	10000.0000	2077.6282
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DELETE	4	10297.1204	8679.5774
DELETE	5	9988.9192	4565.0317
DELETE	6	10000.0000	8679.3212
DELETE	7	10000.0000	7358.6424
DELETE	8	10000.0000	4718.1353
DELETE	9	-	-
DELETE	10	-	-
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DELETE	45	-	-
DELETE	46	-	-
DELETE	47	-	-

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PROJECT:
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DELETE	48	-	-
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DELETE	104	-	-
DELETE	105	-	-
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DELETE	107	9994.1177	7358.6366
DELETE	108	9988.2373	4718.1020
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FILE: 04-0401-ab.cgo
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DELETE	201	11313.8085	9673.5857
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DELETE	216	10645.8675	8582.6007
DELETE	217	10397.3210	8188.8192
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DELETE	233	4352.5448	3382.9168
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PROJECT:
DESCRIPTION:
FILE: 04-0401-ab.cgo
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DELETE	272	-	-	
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LIST	3	9965.1239	13230.0766	796.95 C3
LIST	4	10040.5281	7635.5296	786.67 M3
LIST	5	9974.5356	7635.9527	787.33 A3
LIST	6	12697.4219	7634.3901	789.89 M2
LIST	7	12641.0239	7634.4147	789.61 A2
LIST	8	15228.2522	10574.6683	772.66 B1
LIST	9	15228.5211	10613.5011	771.98 B13
LIST	10	15241.0269	7624.3073	779.21 A1
LIST	11	15220.6483	13269.5250	781.49 C13
LIST	12	15220.9775	13222.1161	781.73 C1
LIST	13	4695.0404	7670.2387	783.73 A5
LIST	14	4729.9411	7670.1499	783.83 M5
LIST	15	7389.7614	7653.9591	798.11 M4
LIST	16	7337.3620	10596.7824	804.65 B4
LIST	17	7321.3200	13236.5720	798.97 C4
LIST	18	12603.8089	13239.5568	785.65 C2

INSTRUMENT SETUP

Instrument point: 1 10000.0001 10000.0000 794.12 TRAV PT 1
Backsight point: 1 10000.0001 10000.0000 794.12 TRAV PT 1
Backsight Bearing: N 00°00'00.0" E Distance: 0.000
Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
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PROJECT:
 DESCRIPTION:
 FILE: 04-0401-ab.cgo
 UNITS: U.S. SURVEY FOOT

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INV	1	6	N 41°15'01.5" W	3587.784	12697.4219	7634.3901
INV	6	4	S 00°01'28.5" E	2656.894	10040.5281	7635.5296
INV	4	15	S 00°23'54.0" E	2650.831	7389.7614	7653.9591
INV	15	14	S 00°20'55.6" E	2659.870	4729.9411	7670.1499
INV	14	13	S 00°08'44.8" E	34.901	4695.0404	7670.2387
INV	13	5	N 00°22'19.5" W	5279.607	9974.5356	7635.9527
INV	5	7	N 00°01'59.0" W	2666.489	12641.0239	7634.4147
INV	7	10	N 00°13'21.8" W	2600.023	15241.0269	7624.3073
INV	10	10	N 00°00'00.0" E	0.000	15241.0269	7624.3073
INV	10	6	S 00°13'37.6" E	2543.625	12697.4219	7634.3901
INV	6	10	N 00°13'37.6" W	2543.625	15241.0269	7624.3073
INV	10	8	S 89°45'06.9" E	2950.389	15228.2522	10574.6683
INV	8	9	N 89°36'11.7" E	38.834	15228.5211	10613.5011
INV	9	12	S 89°50'03.5" E	2608.626	15220.9775	13222.1161
INV	12	13	S 27°48'33.4" W	11900.365	4695.0404	7670.2387
INV	13	12	N 27°48'33.4" E	11900.365	15220.9775	13222.1161
INV	12	18	S 00°22'54.5" E	2617.227	12603.8089	13239.5568
INV	18	3	S 00°12'21.1" W	2638.702	9965.1239	13230.0766
INV	3	17	S 00°08'26.8" E	2643.812	7321.3200	13236.5720
INV	17	16	N 89°39'06.5" W	2639.838	7337.3620	10596.7824
INV	16	2	N 00°15'38.3" W	2635.571	9972.9059	10584.7933
INV	2	3	S 89°49'53.2" E	2645.295	9965.1239	13230.0766
INV	3	2	N 89°49'53.2" W	2645.295	9972.9059	10584.7933
INV	2	5	N 89°58'06.0" W	2948.841	9974.5356	7635.9527
INV	5	12	N 46°47'46.6" E	7663.575	15220.9775	13222.1161
INV	12	11	S 89°36'07.8" E	47.410	15220.6483	13269.5250
INV	11	18	S 00°39'22.1" W	2617.011	12603.8089	13239.5568
INV	18	4	S 65°25'14.4" W	6162.429	10040.5281	7635.5296
INV	4	5	S 00°22'02.4" E	65.994	9974.5356	7635.9527
INV	5	6	N 00°01'58.4" W	2722.887	12697.4219	7634.3901
INV	6	7	S 00°01'30.0" E	56.398	12641.0239	7634.4147
BB	Bearing-Bearing intersection at point 30					
	6	30	S 00°01'28.5" E	56.398	12697.4219	7634.3901
	30	7	N 89°58'31.5" E	0.000	12641.0239	7634.4143
BB	Bearing-Bearing intersection at point 31					
	4	31	S 00°23'54.0" E	65.994	10040.5281	7635.5296
	31	5	S 89°36'06.0" W	0.036	9974.5356	7635.9884
					9974.5356	7635.9527

INSTRUMENT SETUP

Instrument point: 8 15228.2522 10574.6683 772.66 B1
 Backsight point: 8 15228.2522 10574.6683 772.66 B1
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	8	12	S 89°50'33.2" E	2647.458	15220.9775	13222.1161

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PROJECT:
 DESCRIPTION:
 FILE: 04-0401-ab.cgo
 UNITS: U.S. SURVEY FOOT

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Open Cogo File

File Name: 04-0401-ab.cgo
 Size: 241
 Created: 03-16-2005
 Last Edited: 03-16-2005
 Project No.:
 Description:

Using North Azimuths

INSTRUMENT SETUP

Instrument point: 12 15220.9775 13222.1161 781.73 C1
 Backsight point: 12 15220.9775 13222.1161 781.73 C1
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	12	18	179°37'05.5"AR	2617.227	12603.8089	13239.5568
INV	18	12	N 00°22'54.5" W	2617.227	15220.9775	13222.1161
BB	Bearing-Bearing intersection at point 19					
	7				12641.0239	7634.4147
	7	19	S 89°37'10.5" E	2945.341	12621.4689	10579.6906
	19	8	N 00°06'37.4" W	2606.788	15228.2522	10574.6683

TYPE	POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
EDITPT	54	9957.7930	10584.9400	791.69	2
EDITPT	20	2078.3960	7685.9660	796.07	M6
EDITPT	21	4687.5560	15894.7310	784.23	D-5
EDITPT	22	6082.3930	13211.3900	794.95	TP22

INSTRUMENT SETUP

Instrument point: 19 12621.4689 10579.6906
 Backsight point: 18 12603.8089 13239.5568 785.65 C2
 Backsight Bearing: S 89°37'10.5" E Distance: 2659.925
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	19	18	S 89°37'10.5" E	2659.925	12603.8089	13239.5568
INV	18	19	N 89°37'10.5" W	2659.925	12621.4689	10579.6906
INV	19	2	S 00°06'37.4" E	2648.568	9972.9059	10584.7933
INV	2	19	N 00°06'37.4" W	2648.568	12621.4689	10579.6906
INV	19	7	N 89°37'10.5" W	2945.341	12641.0239	7634.4147
INV	7	19	S 89°37'10.5" E	2945.341	12621.4689	10579.6906
INV	19	8	N 00°06'37.4" W	2606.788	15228.2522	10574.6683
DD	Distance Distance intersection at point 124					
	14				4729.9411	7670.1499
	14	124	N 61°42'22.6" E	2932.690	6120.0123	10252.4691
	124	22	S 89°16'17.7" E	2959.160	6082.3930	13211.3900
DD	Distance Distance intersection at point 124					
	22				6082.3930	13211.3900

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	22	124	S 61°50'22.3" W	2959.160	4685.8387	10602.5083
	124	14	N 89°08'18.0" W	2932.690	4729.9411	7670.1499
DD	Distance intersection at point 23					
		21			4687.5560	15894.7310
	21	23	S 89°46'53.1" W	2652.820	4677.4354	13241.9303
	23	17	N 00°06'58.0" W	2643.890	7321.3200	13236.5720
INV	8	23	S 14°11'14.0" E	10882.740	4677.4354	13241.9303
INV	23	13	N 89°49'08.3" W	5571.719	4695.0404	7670.2387
INV	13	124	S 89°49'12.7" E	2932.284	4685.8387	10602.5083
INV	124	23	S 89°49'03.3" E	2639.435	4677.4354	13241.9303

INSTRUMENT SETUP

Instrument point: 23 4677.4354 13241.9303
 Backsight point: 13 4695.0404 7670.2387 783.73 A5
 Backsight Bearing: N 89°49'08.3" W Distance: 5571.719
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
TRAV	23	24	N 89°49'08.3" W	2785.860	4686.2379	10456.0845
INV	24	124	S 89°50'37.6" E	146.424	4685.8387	10602.5083

INSTRUMENT SETUP

Instrument point: 23 4677.4354 13241.9303
 Backsight point: 13 4695.0404 7670.2387 783.73 A5
 Backsight Bearing: N 89°49'08.3" W Distance: 5571.719
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
TRAV	23	24	N 89°49'08.3" W	2639.690	4685.7761	10602.2535
INV	24	124	N 76°11'48.1" E	0.262	4685.8387	10602.5083

TYPE	POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
LIST	1	10000.0001	10000.0000	794.12	TRAV PT 1
LIST	2	9972.9059	10584.7933	791.53	B3
LIST	3	9965.1239	13230.0766	796.95	C3
LIST	4	10040.5281	7635.5296	786.67	M3
LIST	5	9974.5356	7635.9527	787.33	A3
LIST	6	12697.4219	7634.3901	789.89	M2
LIST	7	12641.0239	7634.4147	789.61	A2
LIST	8	15228.2522	10574.6683	772.66	B1
LIST	9	15228.5211	10613.5011	771.98	B13
LIST	10	15241.0269	7624.3073	779.21	A1
LIST	11	15220.6483	13269.5250	781.49	C13
LIST	12	15220.9775	13222.1161	781.73	C1
LIST	13	4695.0404	7670.2387	783.73	A5
LIST	14	4729.9411	7670.1499	783.83	M5
LIST	15	7389.7614	7653.9591	798.11	M4
LIST	16	7337.3620	10596.7824	804.65	B4
LIST	17	7321.3200	13236.5720	798.97	C4
LIST	18	12603.8089	13239.5568	785.65	C2
LIST	19	12621.4689	10579.6906		

PROJECT:
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LIST	20	2078.3960	7685.9660	796.07 M6
LIST	21	4687.5560	15894.7310	784.23 D-5
LIST	22	6082.3930	13211.3900	794.95 TP22
LIST	23	4677.4354	13241.9303	
LIST	24	4685.7761	10602.2535	
LIST	30	12641.0239	7634.4143	
LIST	31	9974.5358	7635.9884	
LIST	54	9957.7930	10584.9400	791.69 2
LIST	124	4685.8387	10602.5083	

INSTRUMENT SETUP

Instrument point: 5 9974.5356 7635.9527 787.33 A3
 Backsight point: 24 4685.7761 10602.2535
 Backsight Bearing: S 29°17'12.2" E Distance: 6063.820
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	5	15	S 00°23'56.9" E	2584.837	7389.7614	7653.9591

INSTRUMENT SETUP

Instrument point: 15 7389.7614 7653.9591 798.11 M4
 Backsight point: 14 4729.9411 7670.1499 783.83 M5
 Backsight Bearing: S 00°20'55.6" E Distance: 2659.870
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	15	25			-	-

INSTRUMENT SETUP

Instrument point: 15 7389.7614 7653.9591 798.11 M4
 Backsight point: 14 4729.9411 7670.1499 783.83 M5
 Backsight Bearing: S 00°20'55.6" E Distance: 2659.870
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
TRAV	15	25	S 00°20'55.6" E	54.960	7334.8024	7654.2936
BB	Bearing-Bearing intersection at point 116					
	25	116	S 89°51'41.8" E	2939.371	7334.8024	7654.2936
	116	124	S 00°11'31.1" E	2641.879	7327.7032	10593.6564
					4685.8387	10602.5083

24

4685.776 10602.254

0.06

0.25

0.06
 127
 27
 0.25

Drawing Name: computation
 Project Name: 05-0401
 Project Path: S:\Projects\2005\05-0401\
 Username: maurya

Number	Northing	Easting	Elevation	Raw Desc	Full Desc
1	10000.0001	10000.0000	794.12	TRAV PT 1	TRAV PT 1
2	9972.9059	10584.7933	791.53	B3	B3
3	9965.1239	13230.0766	796.95	C3	C3
4	10040.5281	7635.5296	786.67	M3	M3
5	9974.5356	7635.9527	787.33	A3	A3
6	12697.4219	7634.3901	789.89	M2	M2
7	12641.0239	7634.4147	789.61	A2	A2
8	15228.2522	10574.6683	772.66	B1	B1
9	15228.5211	10613.5011	771.98	B13	B13
10	15241.0269	7624.3073	779.21	A1	A1
11	15220.6483	13269.5250	781.49	C13	C13
12	15220.9775	13222.1161	781.73	C1	C1
13	4695.0404	7670.2387	783.73	A5	A5
14	4729.9411	7670.1499	783.83	M5	M5
15	7389.7614	7653.9591	798.11	M4	M4
16	7337.3620	10596.7824	804.65	B4	B4
17	7321.3200	13236.5720	798.97	C4	C4
18	12603.8089	13239.5568	785.65	C2	C2
19	12621.4689	10579.6906	.		
24	4685.776	10602.254			

AURELIOS TWP.

~~$\pi @ M-5 (14)$
 $B/S @ M-6 (20) \quad 2651.59$
 $F/S @ B-5 (24)$~~

~~$271^{\circ}12'17'' \quad 2932.44$~~

$\pi @ 22, B/S @ C4 (17) \quad 1239.18$
 $F/S @ B-5 (24)$

$240^{\circ}40'35'' \quad 2959.41$

Points

Project : 04-0401-a

User name	PaulF	Date & Time	7:44:31 AM 3/28/2005
Coordinate System	Default	Zone	Default
Project Datum	WGS 1984		
Vertical Datum		Geoid Model	Not selected
Coordinate Units	International feet		
Distance Units	International feet		
Height Units	International feet		

Point listing

Name	Northing	Easting	Elevation	Feature Code
1	10000.000	10000.000	794.116	TRAV PT 1
2	9972.906	10584.793	791.526	B3
3	9965.124	13230.077	796.953	C3
4	10040.528	7635.530	786.673	M3
5	9974.536	7635.953	787.330	A3
6	12697.422	7634.390	789.894	M2
7	12641.024	7634.415	789.608	A2
8	15228.252	10574.668	772.662	B1
9	15228.521	10613.501	771.982	B13
10	15241.027	7624.307	779.208	A1
11	15220.648	13269.525	781.483	C13
12	15220.978	13222.116	781.731	C1
13	4695.040	7670.239	783.734	A5
14	4729.941	7670.150	783.830	M5
15	7389.761	7653.959	798.113	M4
16	7337.362	10596.782	804.655	B4
17	7321.320	13236.572	798.970	C4
18	12603.809	13239.557	785.654	C2
54	9957.793	10584.940	791.689	2
20	2078.396	7685.966	796.070	M6
21	4687.556	15894.731	784.228	D5
22	6082.393	13211.390	794.947	TRAV PT 22

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22.17 = 1239.15 per TOTAL STATION
1239.18 per GPS

SET C5 distance distance ④ C4, D5

TO 22, B/S @ C4 (17)

C5 (23) 177°35'25" 1405.28

Drawing Name: 04-0401-a_gps_3-15-05

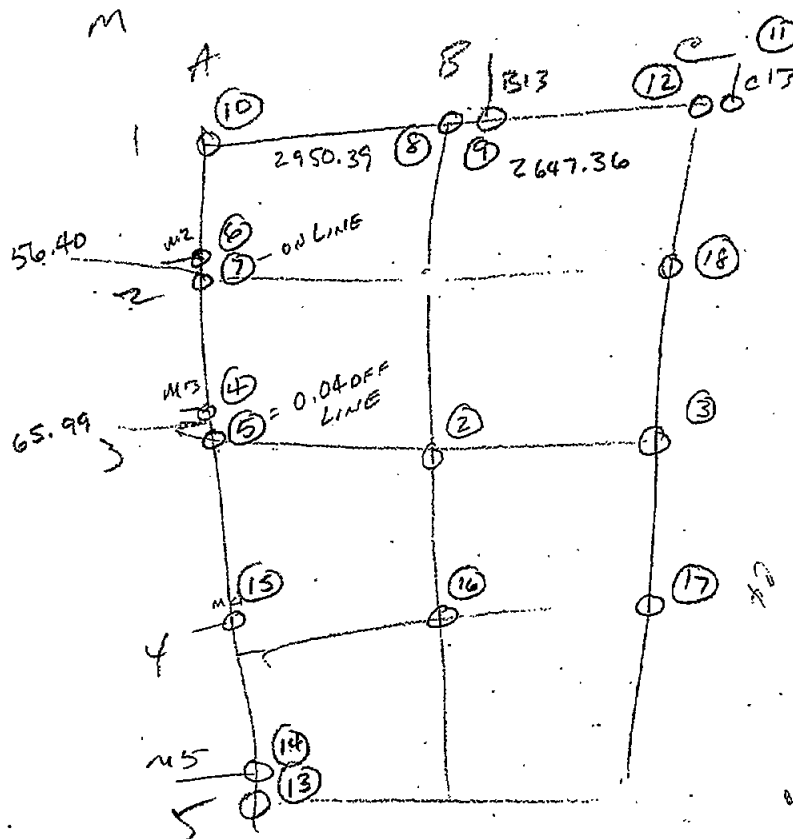
Project Name: 04-0401

Project Path: S:\Projects\2004\04-0401\

Username: PaulF

VEVAY

Number	Northing	Easting	Elevation	Raw Desc	Full Desc
1	10000.0001	10000.0000	794.12	TRAV PT 1	TRAV PT 1
2	9972.9059	10584.7933	791.53	B3	B3
3	9965.1239	13230.0766	796.95	C3	C3
4	10040.5281	7635.5296	786.67	M3	M3
5	9974.5356	7635.9527	787.33	A3	A3
6	12697.4219	7634.3901	789.89	M2	M2
7	12641.0239	7634.4147	789.61	A2	A2
8	15228.2522	10574.6683	772.66	B1	B1
9	15228.5211	10613.5011	771.98	B13	B13
10	15241.0269	7624.3073	779.21	A1	A1
11	15220.6483	13269.5250	781.49	C13	C13
12	15220.9775	13222.1161	781.73	C1	C1
13	4695.0404	7670.2387	783.73	A5	A5
14	4729.9411	7670.1499	783.83	M5	M5
15	7389.7614	7653.9591	798.11	M4	M4
16	7337.3620	10596.7824	804.65	B4	B4
17	7321.3200	13236.5720	798.97	C4	C4
18	12603.8089	13239.5568	785.65	C2	C2



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INSTRUMENT SETUP

Instrument point: 1 10000.0001 10000.0000 794.12 TRAV PT 1
 Backsight point: 1 10000.0001 10000.0000 794.12 TRAV PT 1
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	1	6	N 41°15'01.5" W	3587.784	12697.4219	7634.3901
INV	6	4	S 00°01'28.5" E	2656.894	10040.5281	7635.5296
INV	4	15	S 00°23'54.0" E	2650.831	7389.7614	7653.9591
INV	15	14	S 00°20'55.6" E	2659.870	4729.9411	7670.1499
INV	14	13	S 00°08'44.8" E	34.901	4695.0404	7670.2387
INV	13	5	N 00°22'19.5" W	5279.607	9974.5356	7635.9527
INV	5	7	N 00°01'59.0" W	2666.489	12641.0239	7634.4147
INV	7	10	N 00°13'21.8" W	2600.023	15241.0269	7624.3073
INV	10	10	N 00°00'00.0" E	0.000	15241.0269	7624.3073
INV	10	6	S 00°13'37.6" E	2543.625	12697.4219	7634.3901
INV	6	10	N 00°13'37.6" W	2543.625	15241.0269	7624.3073
INV	10	8	S 89°45'06.9" E	2950.389	15228.2522	10574.6683
INV	8	9	N 89°36'11.7" E	38.834	15228.5211	10613.5011
INV	9	12	S 89°50'03.5" E	2608.626	15220.9775	13222.1161
INV	12	13	S 27°48'33.4" W	11900.365	4695.0404	7670.2387
INV	13	12	N 27°48'33.4" E	11900.365	15220.9775	13222.1161
INV	12	18	S 00°22'54.5" E	2617.227	12603.8089	13239.5568
INV	18	3	S 00°12'21.1" W	2638.702	9965.1239	13230.0766
INV	3	17	S 00°08'26.8" E	2643.812	7321.3200	13236.5720
INV	17	16	N 89°39'06.5" W	2639.838	7337.3620	10596.7824
INV	16	2	N 00°15'38.3" W	2635.571	9972.9059	10584.7933
INV	2	3	S 89°49'53.2" E	2645.295	9965.1239	13230.0766
INV	3	2	N 89°49'53.2" W	2645.295	9972.9059	10584.7933
INV	2	5	N 89°58'06.0" W	2948.841	9974.5356	7635.9527
INV	5	12	N 46°47'46.6" E	7663.575	15220.9775	13222.1161
INV	12	11	S 89°36'07.8" E	47.410	15220.6483	13269.5250
INV	11	18	S 00°39'22.1" W	2617.011	12603.8089	13239.5568
INV	18	4	S 65°25'14.4" W	6162.429	10040.5281	7635.5296
INV	4	5	S 00°22'02.4" E	65.994	9974.5356	7635.9527
INV	5	6	N 00°01'58.4" W	2722.887	12697.4219	7634.3901
INV	6	7	S 00°01'30.0" E	56.398	12641.0239	7634.4147
BB	Bearing-Bearing intersection at point 30					
		6			12697.4219	7634.3901
	6	30	S 00°01'28.5" E	56.398	12641.0239	7634.4143
	30	7	N 89°58'31.5" E	0.000	12641.0239	7634.4147
BB	Bearing-Bearing intersection at point 31					
		4			10040.5281	7635.5296
	4	31	S 00°23'54.0" E	65.994	9974.5358	7635.9884
	31	5	S 89°36'06.0" W	0.036	9974.5356	7635.9527

INSTRUMENT SETUP

Instrument point: 8 15228.2522 10574.6683 772.66 B1
 Backsight point: 8 15228.2522 10574.6683 772.66 B1
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

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TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	8	12	S 89°50'33.2" E	2647.458	15220.9775	13222.1161

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New Cogo File
File Name: untitled
Size: 100
Created: 03-16-2005
Last Edited: 03-16-2005
Project No.:
Description:

Using North Azimuths

LIST	1	10000.0000	10000.0000	G-11
LIST	2	10000.0000	2077.6282	
LIST	3	10851.6724	8680.0556	
LIST	4	10297.1204	8679.5774	
LIST	5	9988.9192	4565.0317	
LIST	6	10000.0000	8679.3212	
LIST	7	10000.0000	7358.6424	
LIST	8	10000.0000	4718.1353	
LIST	100	10000.0000	4565.0317	
LIST	101	9988.2373	4718.1020	
LIST	106	9997.0589	8679.3187	
LIST	107	9994.1177	7358.6366	
LIST	108	9988.2373	4718.1020	
LIST	201	11313.8085	9673.5857	
LIST	202	11349.3041	8601.0329	
LIST	203	10490.8303	8909.8322	
LIST	204	11819.6390	8008.5789	
LIST	205	12180.5028	7641.5028	
LIST	206	12630.2908	6546.7078	
LIST	207	12638.4016	2287.0555	
LIST	208	11404.6251	2574.8154	
LIST	209	10197.5066	3126.0146	
LIST	210	9827.8359	3284.9019	
LIST	211	9951.8752	2714.0219	
LIST	212	9932.4645	3630.2608	
LIST	213	9969.6314	2093.6160	
LIST	215	10624.2721	8696.6644	
LIST	216	10645.8675	8582.6007	
LIST	217	10397.3210	8188.8192	
LIST	218	10262.6673	7843.3969	
LIST	219	10141.4606	7656.9040	
LIST	220	9888.1057	3757.4896	
LIST	221	9904.2396	4484.8906	
LIST	222	9988.2379	4718.1047	
LIST	225	6669.2296	4717.0308	
LIST	226	7332.9460	4420.9868	
LIST	227	7343.4476	2488.2653	
LIST	228	7374.9661	2076.2892	
LIST	229	6100.7293	4965.3080	
LIST	230	5260.3375	5188.7936	
LIST	231	4732.1258	4714.9684	

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LIST	232	4808.0238	3808.2310
LIST	233	4352.5448	3382.9168
LIST	234	4627.5854	2687.2757
LIST	235	4767.3010	2505.4444
LIST	236	4732.4560	2086.0294
LIST	237	7375.7781	850.2944
LIST	238	7376.7383	-556.8653
LIST	240	8348.8460	3957.0749
LIST	241	9347.6319	3509.8721
DELETE	1	10000.0000	10000.0000
DELETE	2	10000.0000	2077.6282
DELETE	3	10851.6724	8680.0556
DELETE	4	10297.1204	8679.5774
DELETE	5	9988.9192	4565.0317
DELETE	6	10000.0000	8679.3212
DELETE	7	10000.0000	7358.6424
DELETE	8	10000.0000	4718.1353
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DELETE	47	-	-

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DELETE	48	-	-
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DELETE	99	-	-
DELETE	100	10000.0000	4565.0317
DELETE	101	9988.2373	4718.1020
DELETE	102	-	-
DELETE	103	-	-

PROJECT:
DESCRIPTION:
FILE: 04-0401-AB.CGO
UNITS: U.S. SURVEY FOOT

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DELETE	104	-	-
DELETE	105	-	-
DELETE	106	9997.0589	8679.3187
DELETE	107	9994.1177	7358.6366
DELETE	108	9988.2373	4718.1020
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DELETE	159	-	-

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DELETE	216	10645.8675	8582.6007
DELETE	217	10397.3210	8188.8192
DELETE	218	10262.6673	7843.3969
DELETE	219	10141.4606	7656.9040
DELETE	220	9888.1057	3757.4896
DELETE	221	9904.2396	4484.8906
DELETE	222	9988.2379	4718.1047
DELETE	223	-	-
DELETE	224	-	-
DELETE	225	6669.2296	4717.0308
DELETE	226	7332.9460	4420.9868
DELETE	227	7343.4476	2488.2653
DELETE	228	7374.9661	2076.2892
DELETE	229	6100.7293	4965.3080
DELETE	230	5260.3375	5188.7936
DELETE	231	4732.1258	4714.9684
DELETE	232	4808.0238	3808.2310
DELETE	233	4352.5448	3382.9168
DELETE	234	4627.5854	2687.2757
DELETE	235	4767.3010	2505.4444
DELETE	236	4732.4560	2086.0294
DELETE	237	7375.7781	850.2944
DELETE	238	7376.7383	-556.8653
DELETE	239	-	-
DELETE	240	8348.8460	3957.0749
DELETE	241	9347.6319	3509.8721
DELETE	242	-	-
DELETE	243	-	-
DELETE	244	-	-
DELETE	245	-	-
DELETE	246	-	-
DELETE	247	-	-
DELETE	248	-	-
DELETE	249	-	-
DELETE	250	-	-
DELETE	251	-	-
DELETE	252	-	-
DELETE	253	-	-
DELETE	254	-	-
DELETE	255	-	-
DELETE	256	-	-
DELETE	257	-	-
DELETE	258	-	-
DELETE	259	-	-
DELETE	260	-	-
DELETE	261	-	-
DELETE	262	-	-
DELETE	263	-	-
DELETE	264	-	-
DELETE	265	-	-
DELETE	266	-	-
DELETE	267	-	-
DELETE	268	-	-
DELETE	269	-	-
DELETE	270	-	-
DELETE	271	-	-

PROJECT:
 DESCRIPTION:
 FILE: 04-0401-AB.CGO
 UNITS: U.S. SURVEY FOOT

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DELETE	272	-	-	
DELETE	273	-	-	
DELETE	274	-	-	
DELETE	275	-	-	
DELETE	276	-	-	
DELETE	277	-	-	
DELETE	278	-	-	
DELETE	279	-	-	
DELETE	280	-	-	
DELETE	281	-	-	
DELETE	282	-	-	
DELETE	283	-	-	
DELETE	284	-	-	
DELETE	285	-	-	
DELETE	286	-	-	
DELETE	287	-	-	
DELETE	288	-	-	
DELETE	289	-	-	
DELETE	290	-	-	
DELETE	291	-	-	
DELETE	292	-	-	
DELETE	293	-	-	
DELETE	294	-	-	
DELETE	295	-	-	
DELETE	296	-	-	
DELETE	297	-	-	
DELETE	298	-	-	
DELETE	299	-	-	
DELETE	300	-	-	
LIST	1	10000.0001	10000.0000	794.12 TRAV PT 1
LIST	2	9972.9059	10584.7933	791.53 B3
LIST	3	9965.1239	13230.0766	796.95 C3
LIST	4	10040.5281	7635.5296	786.67 M3
LIST	5	9974.5356	7635.9527	787.33 A3
LIST	6	12697.4219	7634.3901	789.89 M2
LIST	7	12641.0239	7634.4147	789.61 A2
LIST	8	15228.2522	10574.6683	772.66 B1
LIST	9	15228.5211	10613.5011	771.98 B13
LIST	10	15241.0269	7624.3073	779.21 A1
LIST	11	15220.6483	13269.5250	781.49 C13
LIST	12	15220.9775	13222.1161	781.73 C1
LIST	13	4695.0404	7670.2387	783.73 A5
LIST	14	4729.9411	7670.1499	783.83 M5
LIST	15	7389.7614	7653.9591	798.11 M4
LIST	16	7337.3620	10596.7824	804.65 B4
LIST	17	7321.3200	13236.5720	798.97 C4
LIST	18	12603.8089	13239.5568	785.65 C2

INSTRUMENT SETUP

Instrument point: 1 10000.0001 10000.0000 794.12 TRAV PT 1
 Backsight point: 1 10000.0001 10000.0000 794.12 TRAV PT 1
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
------	------	----	-----------	----------	----------	---------

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INSTRUMENT SETUP

Instrument point: 8 15228.2522 10574.6683 772.66 B1
 Backsight point: 8 15228.2522 10574.6683 772.66 B1
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	8	12	S 89°50'33.2" E	2647.458	15220.9775	13222.1161

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Open Cogo File

File Name: 04-0401-AB.CGO
 Size: 241
 Created: 03-16-2005
 Last Edited: 03-16-2005
 Project No.:
 Description:

Using North Azimuths

TYPE	POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
EDITPT	130	12614.0910	11901.2090		
EDITPT	131	13956.0220	10575.7170		
EDITPT	19	12621.4689	10579.6906		

INSTRUMENT SETUP

Instrument point: 18 12603.8089 13239.5568 785.65 C2
 Backsight point: 18 12603.8089 13239.5568 785.65 C2
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	18	130	270°26'24.6"AR	1338.387	12614.0910	11901.2090
INV	130	18	S 89°33'35.4" E	1338.387	12603.8089	13239.5568
INV	18	130	N 89°33'35.4" W	1338.387	12614.0910	11901.2090
INV	130	19	N 89°40'48.5" W	1321.539	12621.4689	10579.6906
INV	19	8	N 00°06'37.4" W	2606.788	15228.2522	10574.6683
INV	8	131	S 00°02'50.0" E	1272.231	13956.0220	10575.7170
INV	131	19	S 00°10'14.1" E	1334.559	12621.4689	10579.6906
INV	19	7	N 89°37'10.5" W	2945.341	12641.0239	7634.4147
INV	7	18	S 89°37'10.5" E	5605.266	12603.8089	13239.5568
BB	Bearing-Bearing intersection at point 119					
		18			12603.8089	13239.5568
	18	119	N 89°33'35.4" W	2662.821	12624.2659	10576.8148
	119	8	N 00°02'50.0" W	2603.987	15228.2522	10574.6683

INSTRUMENT SETUP

Instrument point: 18 12603.8089 13239.5568 785.65 C2
 Backsight point: 18 12603.8089 13239.5568 785.65 C2
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
TRAV	18	219	N 89°33'35.4" W	2676.775	12624.3731	10562.8612
BB	Bearing-Bearing intersection at point 132					
		219			12624.3731	10562.8612
	219	132	N 00°15'35.3" E	1331.694	13956.0529	10568.8996
	132	131	S 89°44'24.7" E	6.817	13956.0220	10575.7170

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INSTRUMENT SETUP

Instrument point: 19 12621.4689 10579.6906
 Backsight point: 19 12621.4689 10579.6906
 Backsight Bearing: N 00°00'00.0" E Distance: 0.000
 Remarks:

TYPE	FROM	TO	DIRECTION	DISTANCE	NORTHING	EASTING
INV	19	218			-	-
INV	218	219			-	-
INV	219	18	S 89°33'35.4" E	2676.775	12603.8089	13239.5568
INV	18	19	N 89°37'10.5" W	2659.925	12621.4689	10579.6906
INV	19	219	N 80°12'32.6" W	17.078	12624.3731	10562.8612
INV	219	18	S 89°33'35.4" E	2676.775	12603.8089	13239.5568
INV	18	119	N 89°33'35.4" W	2662.821	12624.2659	10576.8148
INV	119	19	S 45°47'46.2" E	4.012	12621.4689	10579.6906
INV	19	7	316°10'35.7"AR	2945.341	12641.0239	7634.4147
INV	7	19	00°00'00.0"AR	2945.341	12621.4689	10579.6906
INV	19	119	43°49'24.3"AR	4.012	12624.2659	10576.8148
INV	119	7	N 89°40'25.3" W	2942.448	12641.0239	7634.4147
INV	7	19	S 89°37'10.5" E	2945.341	12621.4689	10579.6906
INV	19	119	N 45°47'46.2" W	4.012	12624.2659	10576.8148
INV	119	18	S 89°33'35.4" E	2662.821	12603.8089	13239.5568
INV	18	119	N 89°33'35.4" W	2662.821	12624.2659	10576.8148
INV	119	8	N 00°02'50.0" W	2603.987	15228.2522	10574.6683

Points

Project : 04-0401-a

*1/19/04 Ham Co
Removal*

User name	PaulF	Date & Time	1:23:38 PM 4/18/2005
Coordinate System	Default	Zone	Default
Project Datum	WGS 1984		
Vertical Datum		Geoid Model	Not selected
Coordinate Units	International feet		
Distance Units	International feet		
Height Units	International feet		

Point listing

Name	Northing	Easting	Elevation	Feature Code
1	10000.000	10000.000	794.116	TRAV PT 1
2	9972.906	10584.793	791.526	B3
3	9965.124	13230.077	796.953	C3
4	10040.528	7635.530	786.673	M3
5	9974.536	7635.953	787.330	A3
6	12697.422	7634.390	789.894	M2
7	12641.024	7634.415	789.608	A2
8	15228.252	10574.668	772.662	B1
9	15228.521	10613.501	771.982	B13
10	15241.027	7624.307	779.208	A1
11	15220.648	13269.525	781.488	C13
12	15220.978	13222.116	781.731	C1
13	4695.040	7670.239	783.734	A5
14	4729.941	7670.150	783.830	M5
15	7389.761	7653.959	798.113	M4
16	7337.362	10596.782	804.655	B4
17	7321.320	13236.572	798.970	C4
18	12603.809	13239.557	785.654	C2
54	9957.793	10584.940	791.689	2
20	2078.396	7685.966	796.070	M6
21	4687.556	15894.731	784.228	D5
22	6082.393	13211.390	794.947	TRAV PT 22
30	12614.091	11901.209	797.719	IRON 31504 ROOSTEN
31	13956.022	10575.717	779.6504	IN STEEL FENCE POST

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*(19) N
12621.469 10579.691
(19) 12624.266 10576.815
2.80N 2.88W*