Submitted by
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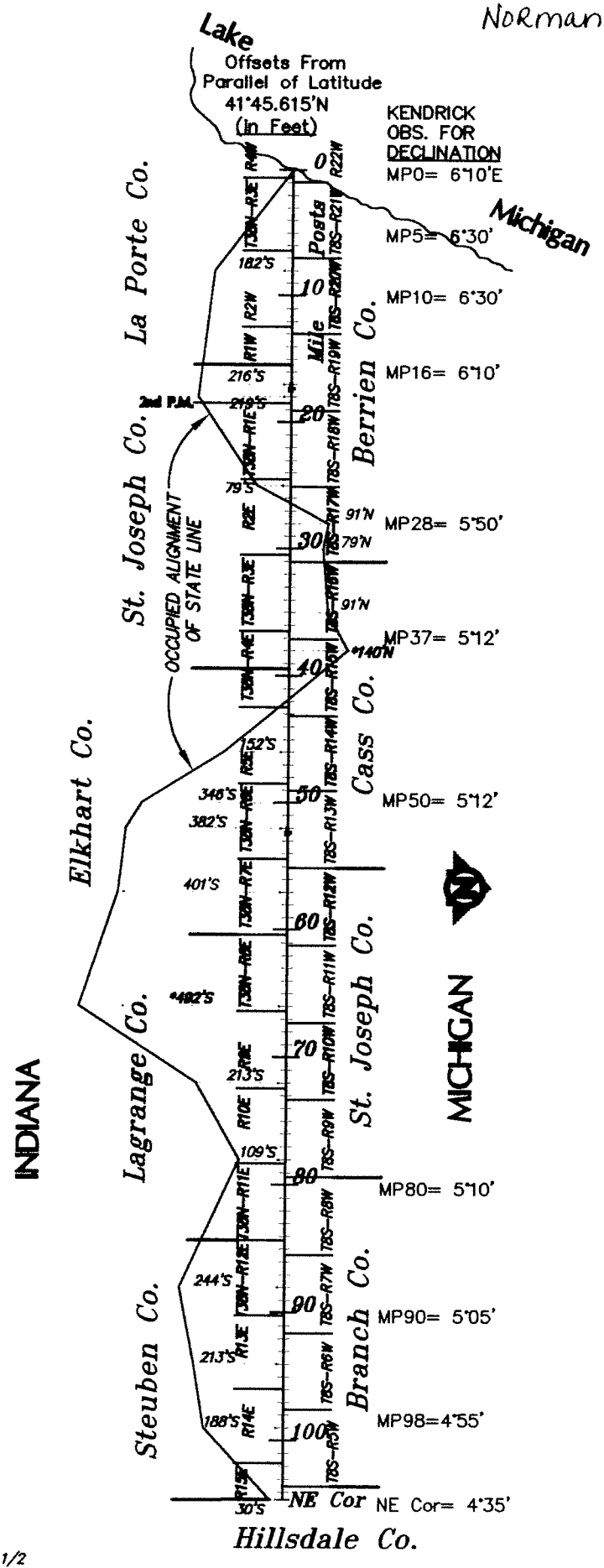
Offsets of Occupied Alignment Along State Line from Latitude of M.P. 0 (Vertical Exaggeration X75)

INDIANA RNG. LINE RUNOUTS–FT.	MICHIGAN RNG. LINE RUNOUTS–FT.
R04W 2845'N	R22W 3664'S
R03W 2836'N	R21W 3755'S
R02W 2418'N	R20W 3666'S
R01W 2917'N	R19W 2342'S
R01E 3126'N	R18W 3299'S
R02E 3071'N	R17W 2695'S
R03E 2522'N	R16W 2552'S
R04E 2281'N	R15W 2753'S
R05E 2068'N	R14W 2375'S
R06E 1794'N	R13W 2305'S
R07E 1469'N	R12W IN LAKE
R08E 1139'N	R11W 2531'S
R09E 924'N	R10W 2608'S
R10E 531'N	R09W 2670'S
R11E 419'N	R08W 2812'S
R12E 345'N	R07W 2857'S
R13E 132'N (~5410'N)	R06W 2762'S
R14E 5192'N	R05W 2614'S
R15E (~5030'N) IN LAKE	R04W



NCC 19SEP2005 SHT 1/2
1st REV DEC2006–NCC, JNO

State Line Summary

August/September 2005
revised,
February 2007, 31 August 2007, 7 September 2007, 24 September 2007,
10 November2007, 31 December 2007,9 January 2008, 21 January 2008, 4 February 2008,
8 February 2008, 7 April 2008, 15 July 2008, 18 Feb. 2009

Notation Formats
Coordinate values and Latitude & Longitude
Michigan South Zone (International Feet)
3 decimal = observed w/handheld GPS
7 decimal = observed w/survey quality GPS
Mile Stationing/decimals: 3 digit = scaled, 4 digit = recorded/observed
Monument Records = Monument Description/Surveyor/Remonumentation Liber-Page/Year
Coordinates to 1/10th foot are calculated Mile Post positions for search purposes

MILE Dec.Sta.	Latitude ° & ' North	Longitude ° & East	Description Identification, Source, Etc.
----------LaPorte County, Indiana/ Berrien County, Michigan ----------			
0	41* 45.617 104,637'+/-	86* 49.424 12,453,021'+/-	SEARCH POSITION.
.02	41* 45.6164851 104,636.14	86/49.412313 12,453,061.42	Lakeshore/Michiana Dr Harrison/TJH/1984 (GPS/Andrews, 2008)
.3938	.6156799 104,571.86	86/48.9640465 12,455,099.98	RL 3 & 4 W, IN Harrison/SCT/1984 (gps/Andrews, 2008)
		2079.0' from Mile Post '0'	
.5465	.6154051 104,547.89	86/48.7953888 12,455,865.66	Brass Cap in Mon. Box on State Line per plats Zwar/4-337/2002 (gps/Platz, 2007)
.6562			Stream Crossing N-S

(Note: It appears the winds have moved the sand dune & stream about 155 feet inland)

.894			N 1/4 sec. 7, R 3 W, IN. (no record 2006)
1	This may be the R/L position ?		
.0039	.6145681 104,472.74	86/48.2641975 12,458,280.22	RL 21/22 W, MI Clay Tile/Zwar/4-210/2001 (gps/Platz, 2007) 20.46' from Mile Post 1
.15	c/l Lakeside Road w. of RR		
.18	PENNSYLVANIA RAILROAD, NE		
.20	HIGHWAY U. S. #12, NE		
.438			cc: 7 & 8, R 3 W, IN. (no record 2006)
.502	.6133843 104,389.46	86/47.6850485 12,460,912.73	S 1/4 19, R 21 W. MI. Conc/Zwar/3-414/1996 gps/Strebs, 2007
.940			N 1/4 sec. 8, R 3 W, IN (no record 2006)
2	.611538 104,302.50	86/47.1063048 12,463,543.30	(gps/strebs/2007)

(1996, Zwar searched, found 6" post, Strebs, 2007 Berrien County remonumentation placed a reference monument and marked new reference trees, 11.22' West of Closing Corner 19 & 20)

.0021			cc 19/20, R 21 W MI
	.6115300	86/47.1038376	gps/Strebs/2007
	104,302.13	12,463,554.51	
			Conc/Zwar/3-413/1996
			11.22' from Mile Post 2
.08	CHESAPEAKE & OHIO RAILROAD, NE		
.25	.6108254	86/46.8101914	3" Iron Pipe
	104,259.54	12,464,889.27	gps/Keil/LaPorte, 2007
	425 WEST ROAD/SHECO ROAD		
.425			cc: 8 & 9, R 3 W, IN
			(no record 2006)
.502	.6093088	86/46.5210276	S 1/4 20, R 21 W, MI
	104,212.68	12,466,203.51	Conc/Zwar/4-211/2001
			(midpoint of 5300.82' mile)
			gps/Platz, 2007
.905	.6070688	86/46.0576736	N 1/4 9, R 3 W, IN
	104,138.90	12,468,309.48	(stone/iron/Zwar/2001)
			(???/Hendricks/2000)
	350 WEST ROAD		(Pipe/Thate/1999)
			gps/keil/2007
3	104,124.2	12,468,810.6	(SEARCH POSITION)
	41/45/36.420569	86/45/56.846381	
.0080	.6069731	86/45.9381518	cc 20/21, R 21 W MI
			Pipe/Zwar/4-212/2001
	104,122.82	12,468,852.80	gps/Platz/2007
	KULVER ROAD		(42.24' from Mile Post 3)
			(543.43' west to N 1/4 9)

(2636.64' East to S 1/4 21)

.403	.6055679 104,055.08	86/45.4804186 12,470,933.37	cc: 9 & 10, R 3 W, IN. Pipe & Stone/GLK/2005 Indiana Hwy Comm/1968 gps/Reynolds, 2007
.590	.6051841 104,037.00	86/45.3584060 12,471,487.97	S 1/4 21, R 21 W, MI. Conc/Zwar/4-213/2001 (2662..02' east to cc 21 & 22) Coords/Reynolds, 2007
.66	CHESAPEAKE & OHIO RAILROAD, NW		
.75	INTERSTATE HIGHWAY 94, NE		
.922	.6032065 .6031786 103,962.93 250 WEST ROAD	86/44.8773910 (K) 86/44.8773907 (R) 12,473,674.29 (mean)	N 1/4 10, R 3 W, IN Harrison/TJH/2005 Indiana Hwy Comm/1968 gps/Keil/LaPorte, 2007 gps/Reynolds, 2007
4	103,950.0 41/45/36.175288	12,474,074.4 86/44/47.362359	(SEARCH POSITION)

Zwar searched, did not find, 1996
(2006 Berrien County remonumentation searched again)

.0079	.6028624 103,947.51 ROSE CITY ROAD	86/44.7729722 (R) 12,474,148.91	cc 21/22, R 21 W MI Pipe/Zwar/3-336/1996 41.58' from Mile Post 4 (474.97' west to N 1/4 10) gps/Reynolds, 2007
.427			cc: 10 & 11, R 3 W, IN