

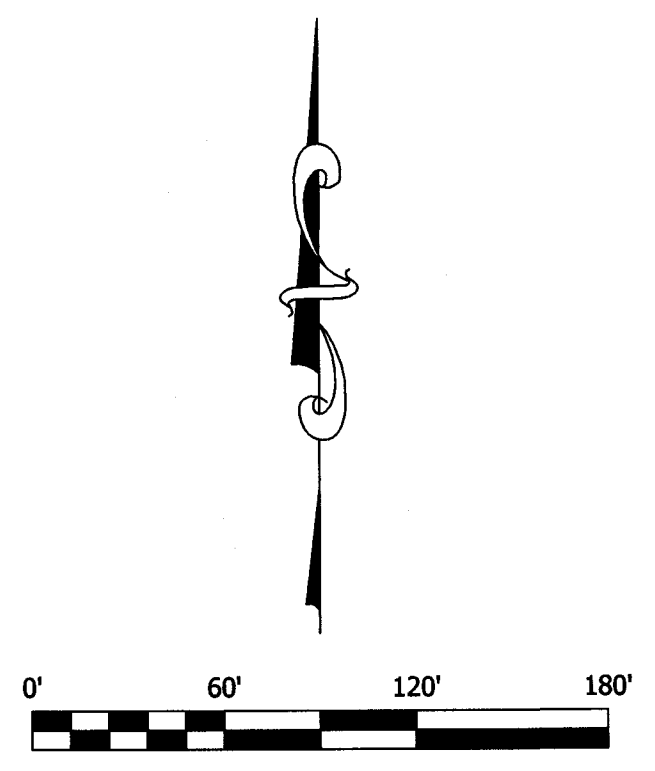
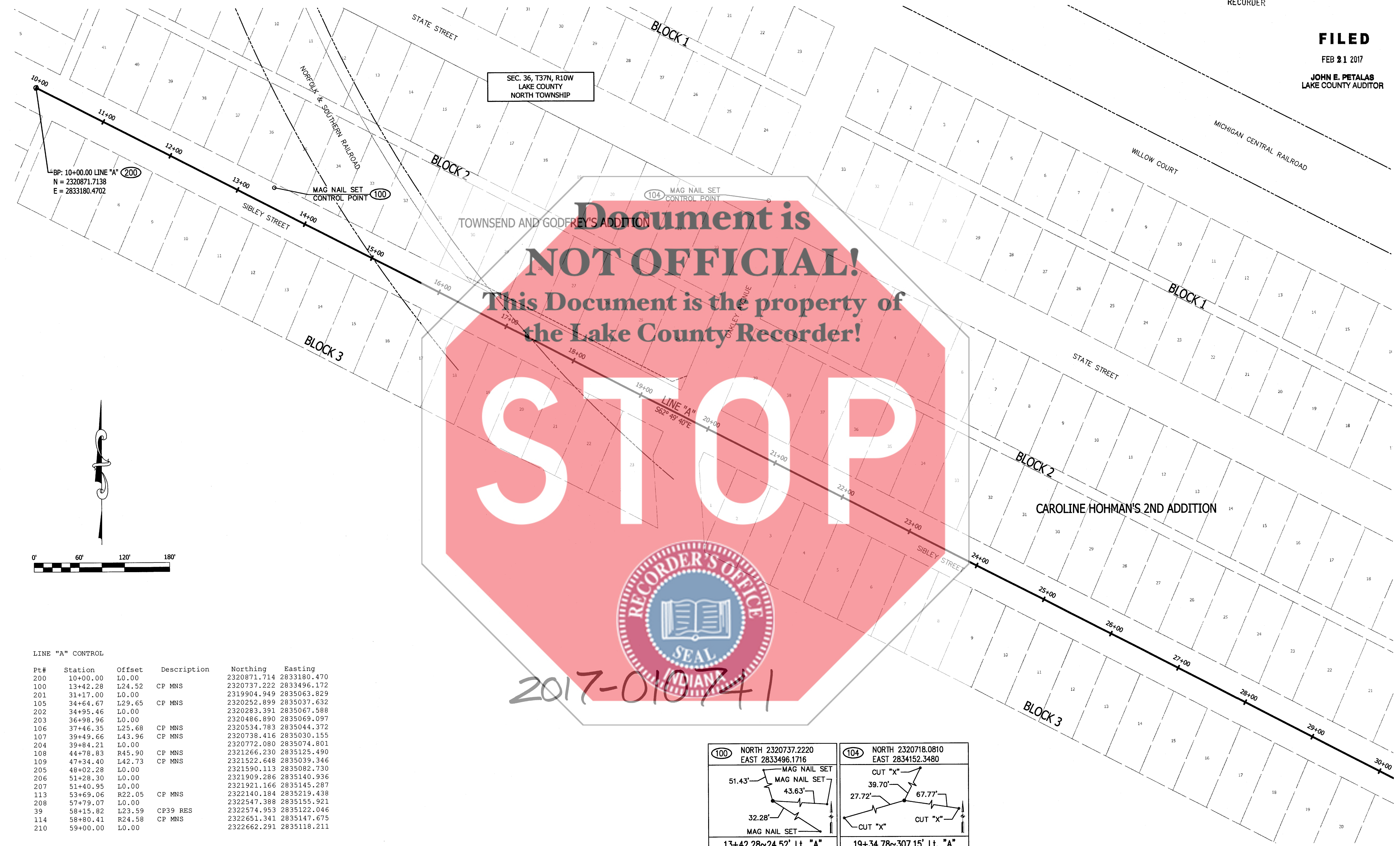
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50.00
M.C.
ChargE 1:7

29 FEB 67

2017 010741

STATE OF INDIANA
LAKE COUNTY
FILED FOR RECORD
2017 FEB 21 AM 11:46
MICHAEL B. BROWN
RECORDER

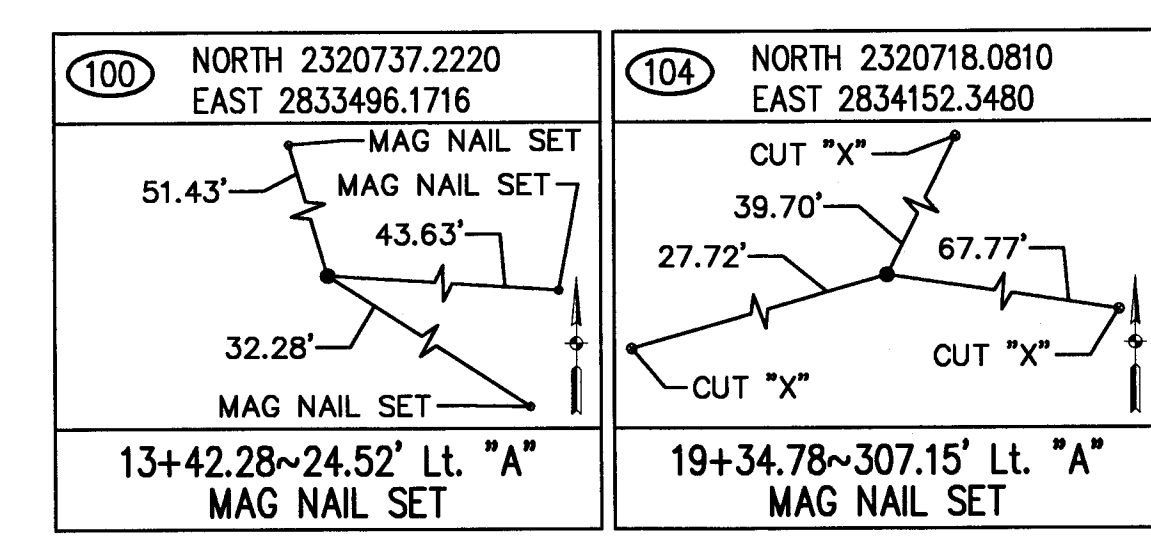
FILED
FEB 21 2017
JOHN E. PETALAS
LAKE COUNTY AUDITOR



LINE "A" CONTROL

Pt#	Station	Offset	Description	Northing	Easting
200	10+00.00	L0.00		2320871.714	2833180.470
100	13+42.28	L24.52	CP MNS	2320737.222	2833496.172
201	31+17.00	L0.00		2319904.949	2835063.829
105	34+64.67	L29.65	CP MNS	2320252.899	2835037.632
202	34+95.46	L0.00		2320283.391	2835067.588
203	36+98.96	L0.00		2320486.890	2835069.097
106	37+46.35	L25.68	CP MNS	2320534.783	2835044.372
107	39+49.66	L43.96	CP MNS	2320738.416	2835030.155
204	39+84.21	L0.00		2320772.080	2835074.801
108	44+78.83	R45.90	CP MNS	2321266.230	2835125.490
109	47+34.40	L42.73	CP MNS	2321522.648	2835039.346
205	48+02.28	L0.00		2321590.113	2835082.730
206	51+28.30	L0.00		2321909.286	2835140.936
207	51+40.95	L0.00		2321921.166	2835145.287
113	53+69.06	R22.05	CP MNS	2322140.184	2835219.438
208	57+79.07	L0.00		2322547.388	2835155.921
39	58+15.82	L23.59	CP39 RES	2322574.953	2835122.046
114	58+80.41	R24.58	CP MNS	2322651.341	2835147.675
210	59+00.00	L0.00		2322662.291	2835118.211

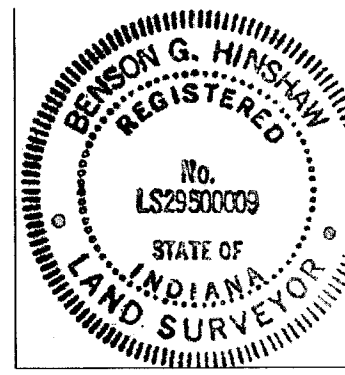
2017-010741



SURVEY STARTED	
08/15/2016	
SURVEY COMPLETED	
09/30/2016	
ROUTE PLAT SHEETS	
1	of 7

FIRST GROUP ENGINEERING, INC.
5925 LAKESIDE BLVD.
INDIANAPOLIS, IN 46278
PHONE: 317-290-9549

FIELD SURVEYOR STATEMENT
THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 IAC 1-12-20 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



RECOMMENDED FOR APPROVAL
Brandon R. Hines 2/1/2017
PROFESSIONAL SURVEYOR DATE
DESIGNED: J. HINES DRAWN: J. HINES
CHECKED: B. HINSHAW CHECKED: B. HINSHAW

INDIANA DEPARTMENT OF TRANSPORTATION
MARQUETTE GREENWAY
LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1"=60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1601145
SURVEY BOOK	SHEETS
N/A	1 of 7
CONTRACT	PROJECT
N/A	1601145

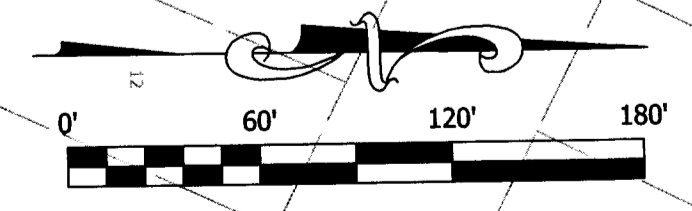
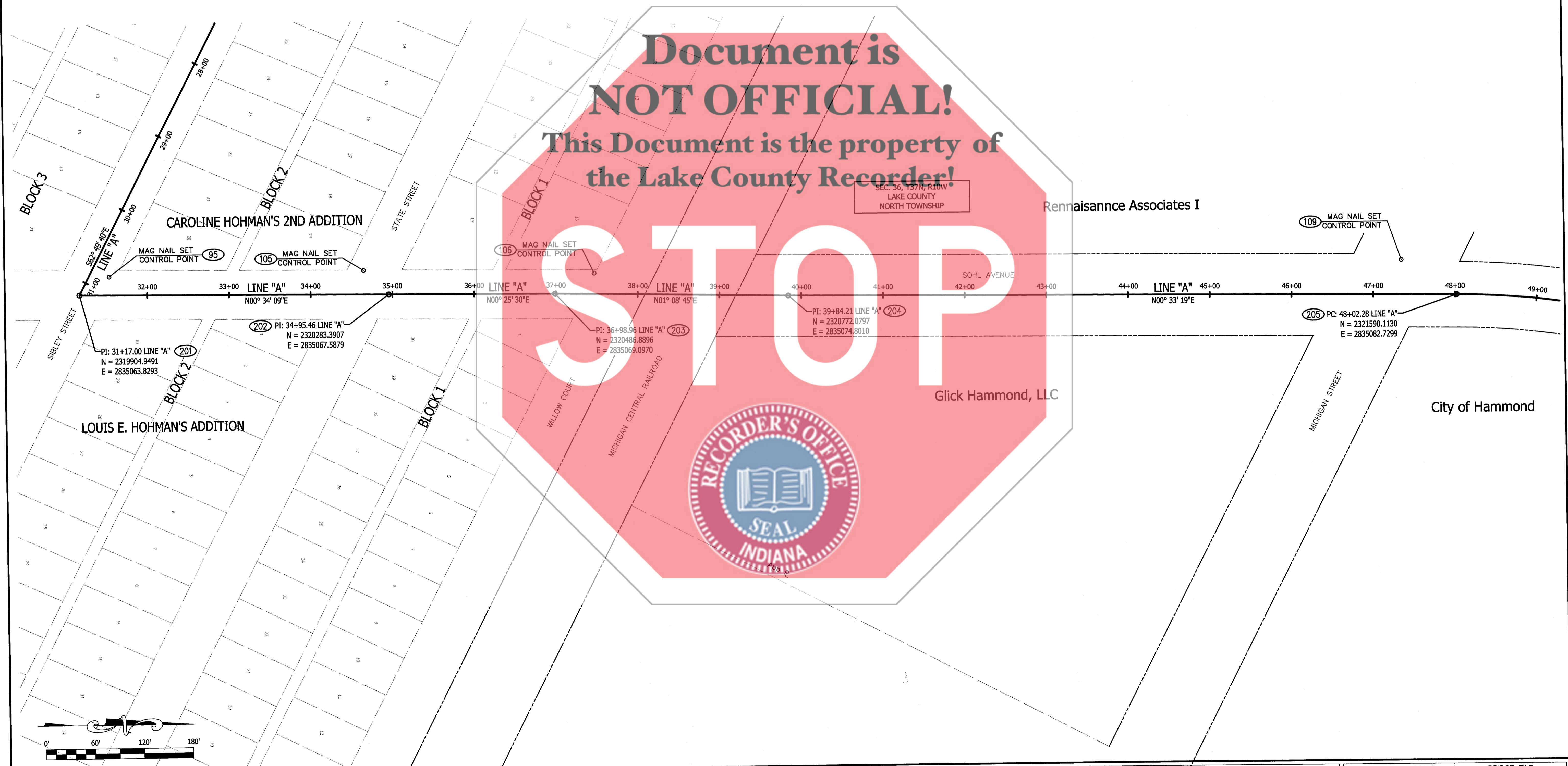
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BOOK 29 PAGE 67

2017 010741

STATE OF INDIANA
LAKE COUNTY
FILED FOR RECORD
2017 FEB 21 AM 11:46
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RECORDER

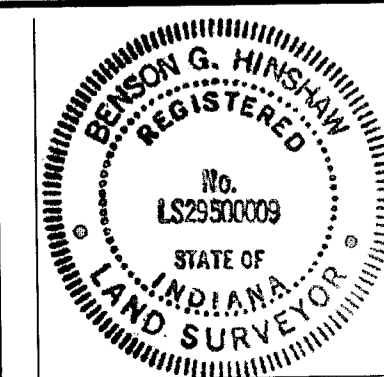
<p>95 NORTH 2319941.4400 EAST 2835041.5290</p> <p>30+80.49~22.28' Lt. "A" MAG NAIL SET</p>	<p>105 NORTH 2320252.8084 EAST 2835037.6702</p> <p>34+64.58~29.61' Lt. "A" MAG NAIL SET</p>	<p>106 NORTH 2320534.9017 EAST 2835034.3748</p> <p>37+46.47~25.68' Lt. "A" MAG NAIL SET</p>	<p>109 NORTH 2321522.6240 EAST 2835039.3368</p> <p>47+34.37~42.74' Lt. "A" MAG NAIL SET</p>
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SURVEY STARTED	08/15/2016
SURVEY COMPLETED	09/30/2016
ROUTE PLAT SHEETS	2 of 7

FIRST GROUP ENGINEERING, INC.
5925 LAKESIDE BLVD.
INDIANAPOLIS, IN 46278
PHONE: 317-290-9549

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RECOMMENDED FOR APPROVAL	<i>Brandon G. Hines</i>	2/1/2017	
PROFESSIONAL SURVEYOR		DATE	
DESIGNED:	J. HINES	DRAWN:	J. HINES
CHECKED:	B. HINSHAW	CHECKED:	B. HINSHAW

INDIANA DEPARTMENT OF TRANSPORTATION
MARQUETTE GREENWAY
LOCATION CONTROL ROUTE SURVEY

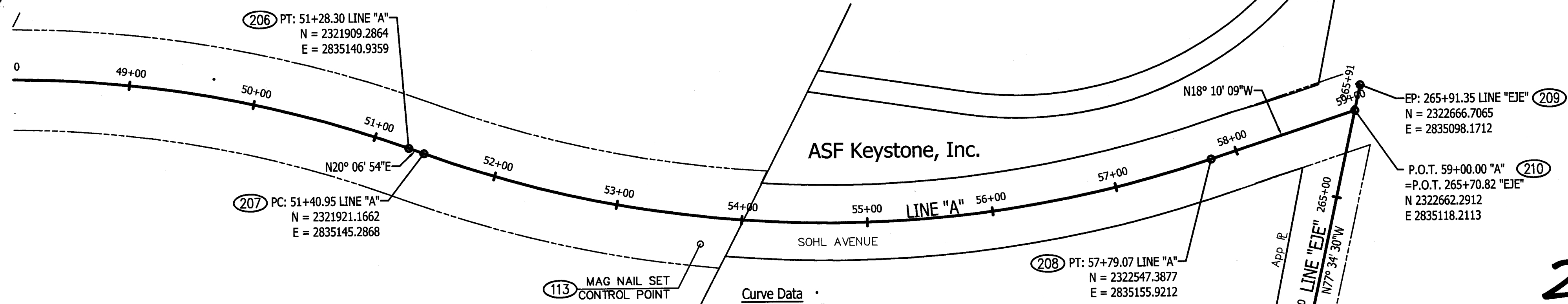
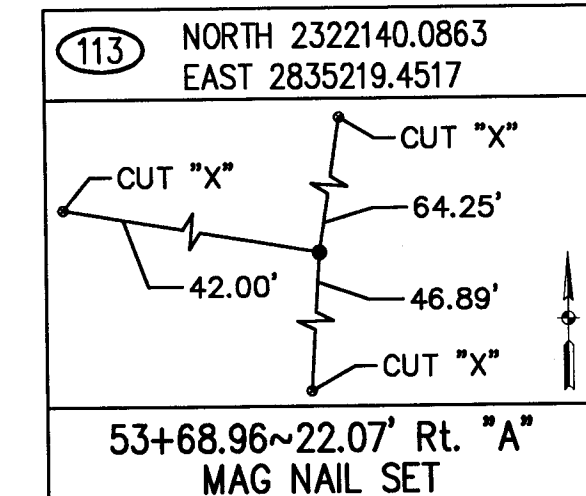
HORIZONTAL SCALE	1"=60'
VERTICAL SCALE	N/A
SURVEY BOOK	N/A
CONTRACT	N/A
BRIDGE FILE	N/A
DESIGNATION	1601145
SHEETS	2 of 7
PROJECT	1601145

3:7

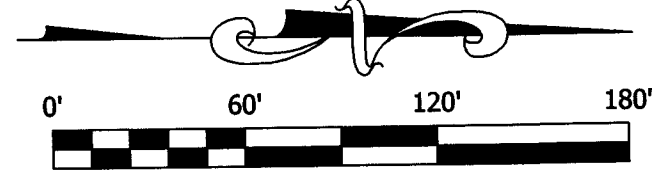
29 67

2017 010741

STATE OF INDIANA
LAKE COUNTY
FILED FOR RECORD
2017 FEB 21 AM 11:46
MICHAEL B. BROWN
RECORDER



2017-010741



SURVEY STARTED	08/15/2016
SURVEY COMPLETED	09/30/2016
ROUTE PLAT SHEETS	3 of 7

FIRST GROUP ENGINEERING, INC.
5925 LAKESIDE BLVD.
INDIANAPOLIS, IN 46278
PHONE: 317-290-9549

FIELD SURVEYOR STATEMENT

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 IAC 1-12-20 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



RECOMMENDED FOR APPROVAL
Benjamin G. Hines 2/1/2017
PROFESSIONAL SURVEYOR DATE

DESIGNED: J. HINES DRAWN: J. HINES
CHECKED: B. HINSHAW CHECKED: B. HINSHAW

INDIANA DEPARTMENT OF TRANSPORTATION

MARQUETTE GREENWAY
LOCATION CONTROL ROUTE SURVEY

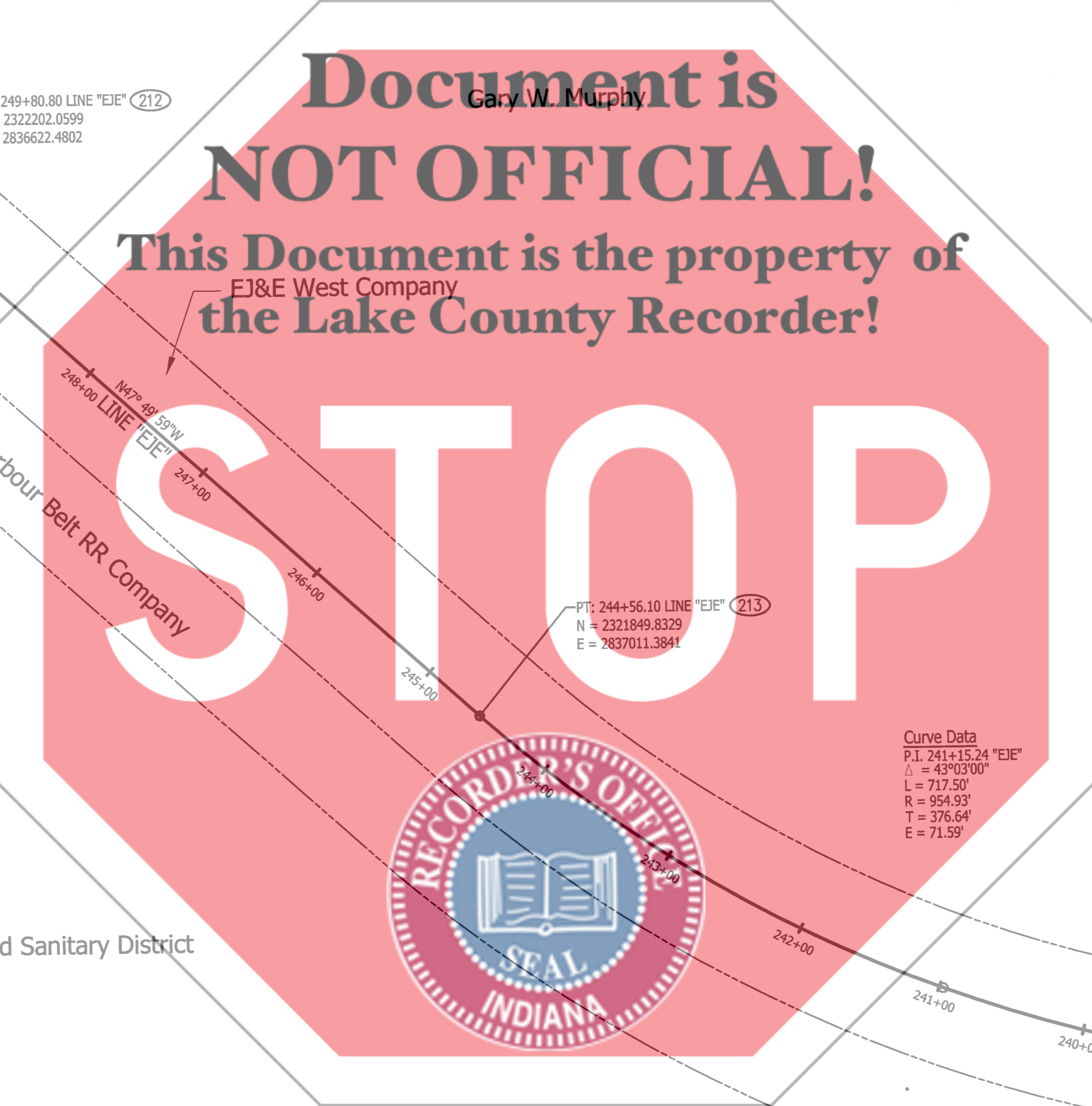
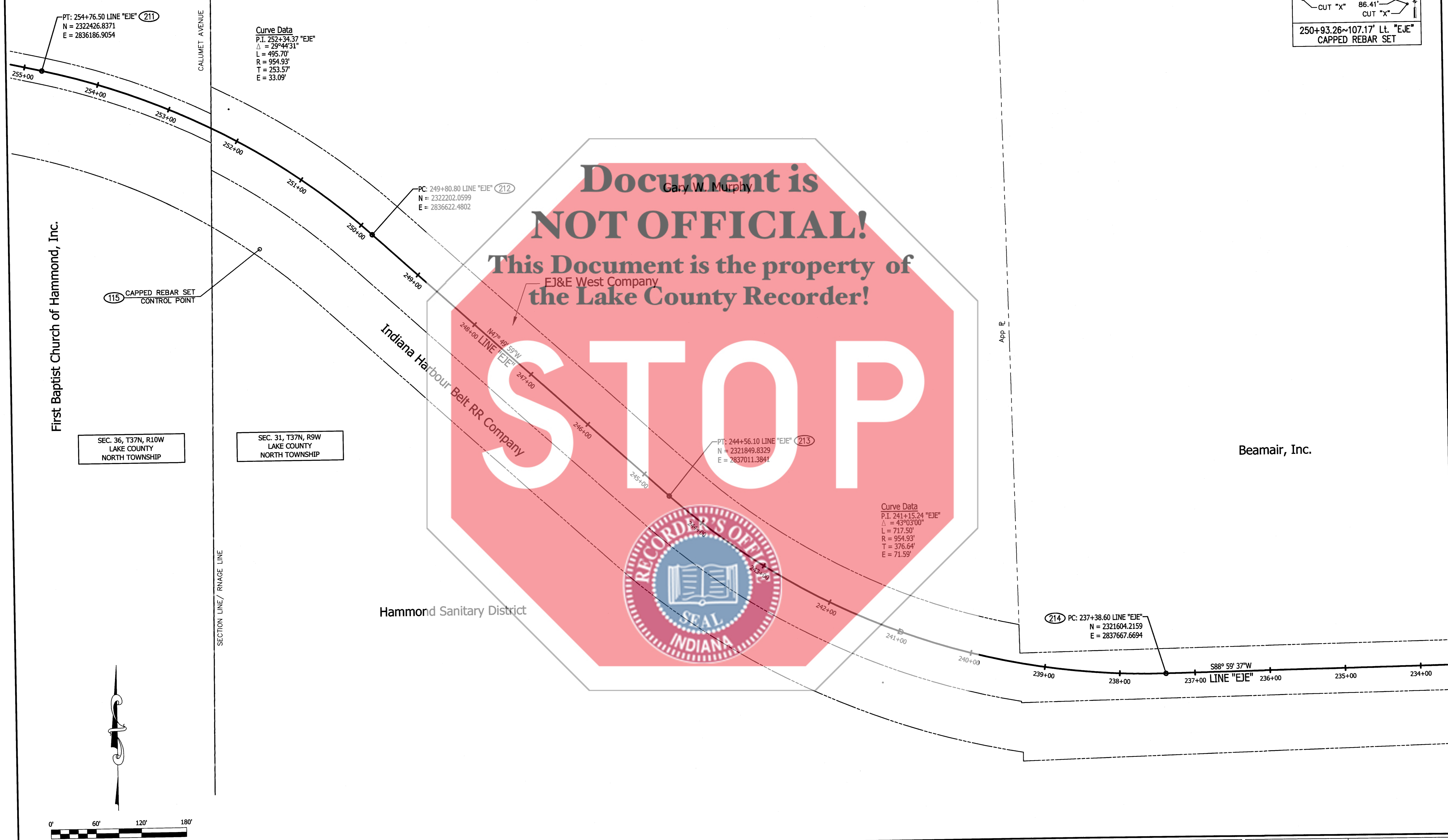
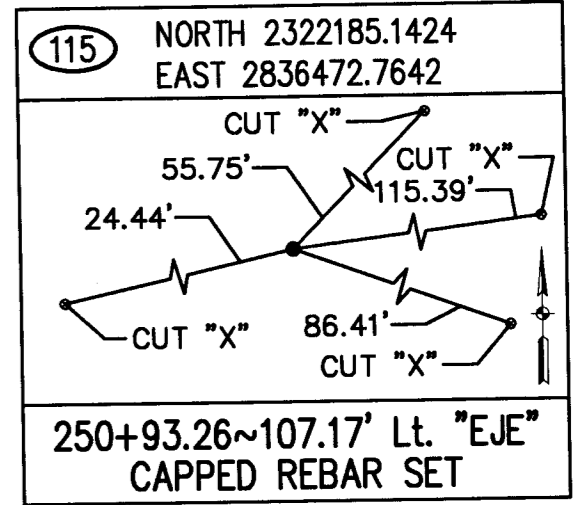
HORIZONTAL SCALE	BRIDGE FILE
1"=60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1601145
SURVEY BOOK	SHEETS
N/A	3 of 7
CONTRACT	PROJECT
N/A	1601145

4:7

29 67

2017 010741

STATE OF INDIANA
LAKE COUNTY
FILED FOR RECORD
2017 FEB 21 AM 11:46
MICHAEL B. BROWN
RECORDER



SURVEY STARTED 08/15/2016 SURVEY COMPLETED 09/30/2016 ROUTE PLAT SHEETS 4 of 7		FIRST GROUP ENGINEERING, INC. 5925 LAKESIDE BLVD. INDIANAPOLIS, IN 46278 PHONE: 317-290-9549		FIELD SURVEYOR STATEMENT THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 IAC 1-12-20 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.		RECOMMENDED FOR APPROVAL <i>Benjamin G. Hinchshaw</i> 2/1/2017 PROFESSIONAL SURVEYOR DATE		INDIANA DEPARTMENT OF TRANSPORTATION MARQUETTE GREENWAY LOCATION CONTROL ROUTE SURVEY		HORIZONTAL SCALE 1"=60' VERTICAL SCALE N/A SURVEY BOOK N/A CONTRACT N/A		BRIDGE FILE N/A DESIGNATION 1601145 SHEETS 4 of 7 PROJECT 1601145	
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5:7

BOOK 29 67

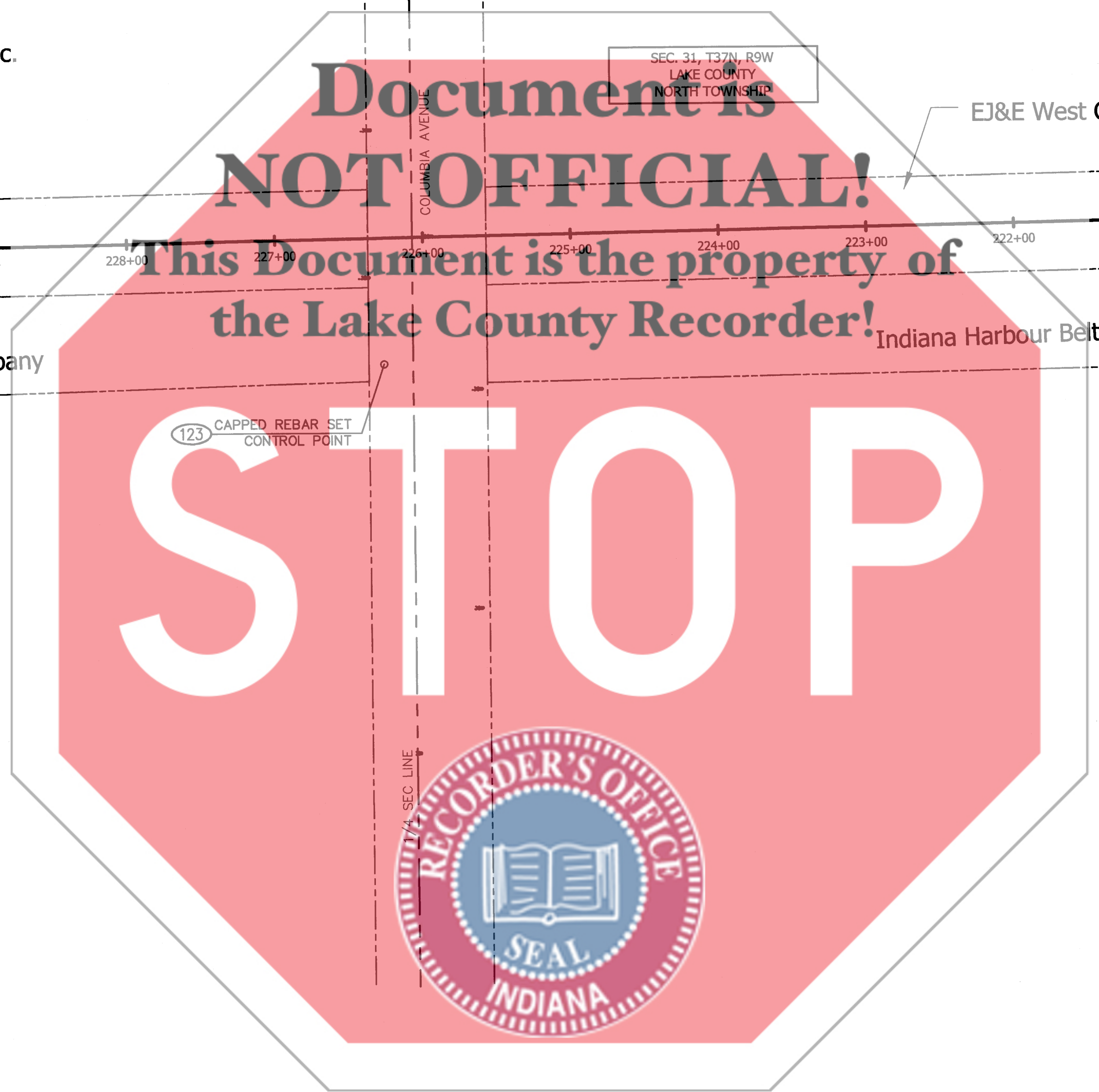
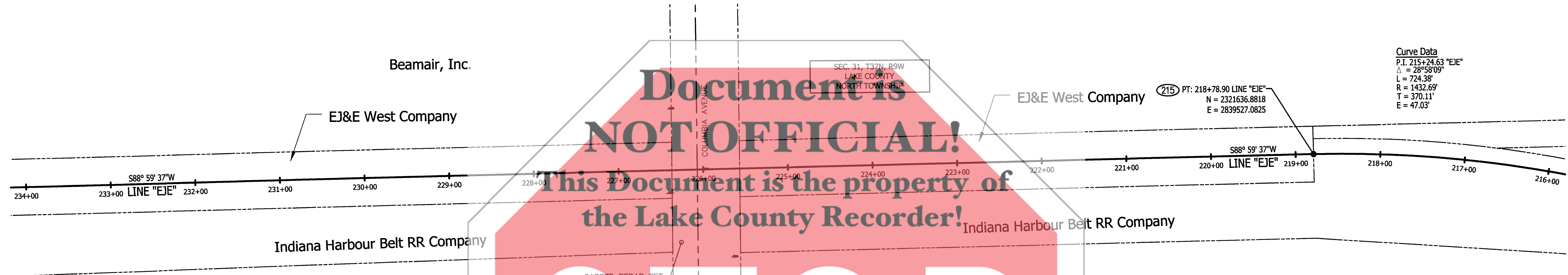
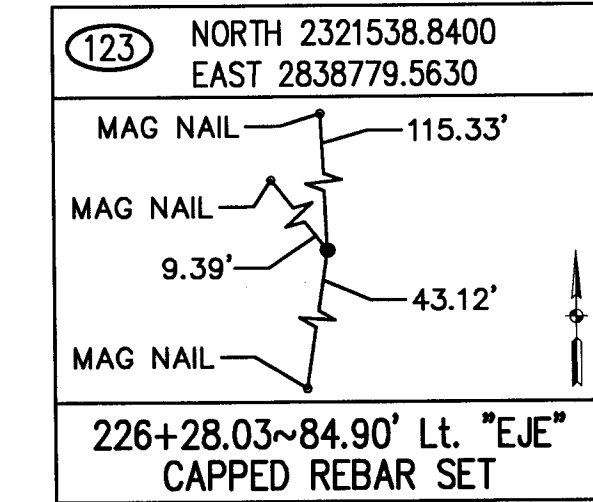
2017 010741

STATE OF INDIANA
LAKE COUNTY
FILED FOR RECORD

2017 FEB 21 AM 11:46

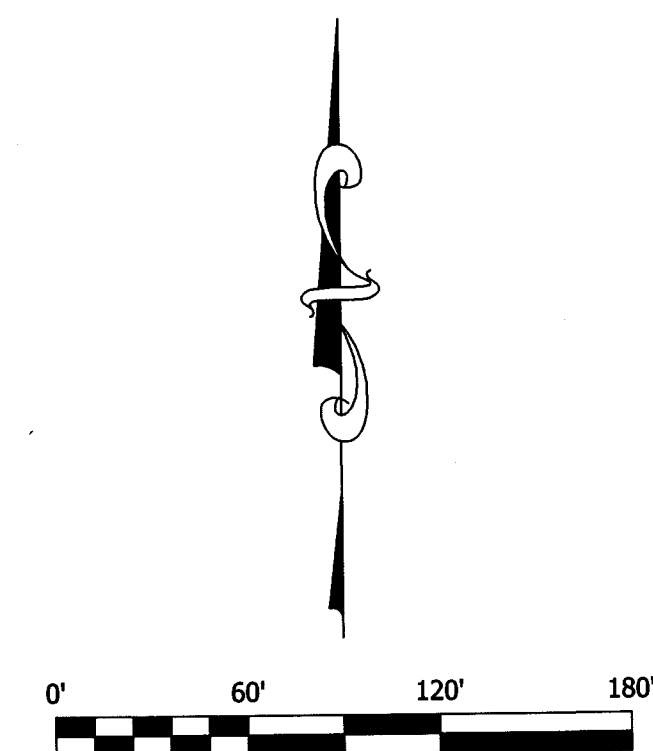
MICHAEL B. BROWN
RECORDER

2017-010741



CONTROL LINE E&J

Pt#	Station	Offset	Description	Northing	Easting
218	195+83.72	L0.00		2320883.685	2841663.066
131	196+27.54	R33.95	CP RBCS	2320918.950	2841620.831
133	200+18.57	R51.75	CP133 RES	2321004.917	2841252.150
130	201+23.75	R51.85	CP RBCS	2321040.312	2841157.176
217	202+60.80	L0.00		2321050.777	2841013.413
216	211+54.52	L0.00		2321469.840	2840224.033
215	218+78.90	L0.00		2321636.882	2839527.082
123	226+28.04	L84.89	CP RBCS	2321538.840	2838779.547
40	230+82.49	L96.76	CP40 RES	2321518.996	2838325.376
214	237+38.60	L0.00		2321604.216	2837667.669
213	244+56.10	L0.00		2321849.833	2837011.384
116	249+29.59	L56.76	CP116	2322125.612	2836622.332
212	249+80.80	L0.00		2322202.060	2836622.480
117	252+80.30	L39.54	CP117 SPIRE NAIL	2322329.238	2836356.641
119	253+22.46	R34.50	CP MNS	2322413.792	2836346.761
211	254+76.50	L0.00		2322426.837	2836186.905
114	265+39.70	L4.35	CP MNS	2322651.341	2835147.675
39	265+48.29	L84.47	CP39 RES	2322574.953	2835122.046
210	265+70.82	L0.00		2322662.291	2835118.211
209	265+91.35	L0.00		2322666.706	2835098.171



SURVEY STARTED	
08/15/2016	
SURVEY COMPLETED	
09/30/2016	
ROUTE PLAT SHEETS	
5	of 7

FIRST GROUP ENGINEERING, INC.
 5925 LAKESIDE BLVD.
 INDIANAPOLIS, IN 46278
 PHONE: 317-290-9549

FIELD SURVEYOR STATEMENT
 THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 IAC 1-12-20 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



RECOMMENDED FOR APPROVAL	
<i>Benson G. Hines</i> 2/1/2017	
PROFESSIONAL SURVEYOR DATE	
DESIGNED: J. HINES	DRAWN: J. HINES
CHECKED: B. HINSHAW	CHECKED: B. HINSHAW

INDIANA DEPARTMENT OF TRANSPORTATION
 MARQUETTE GREENWAY
 LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1"=60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1601145
SURVEY BOOK	SHEETS
N/A	5 of 7
CONTRACT	PROJECT
N/A	1601145

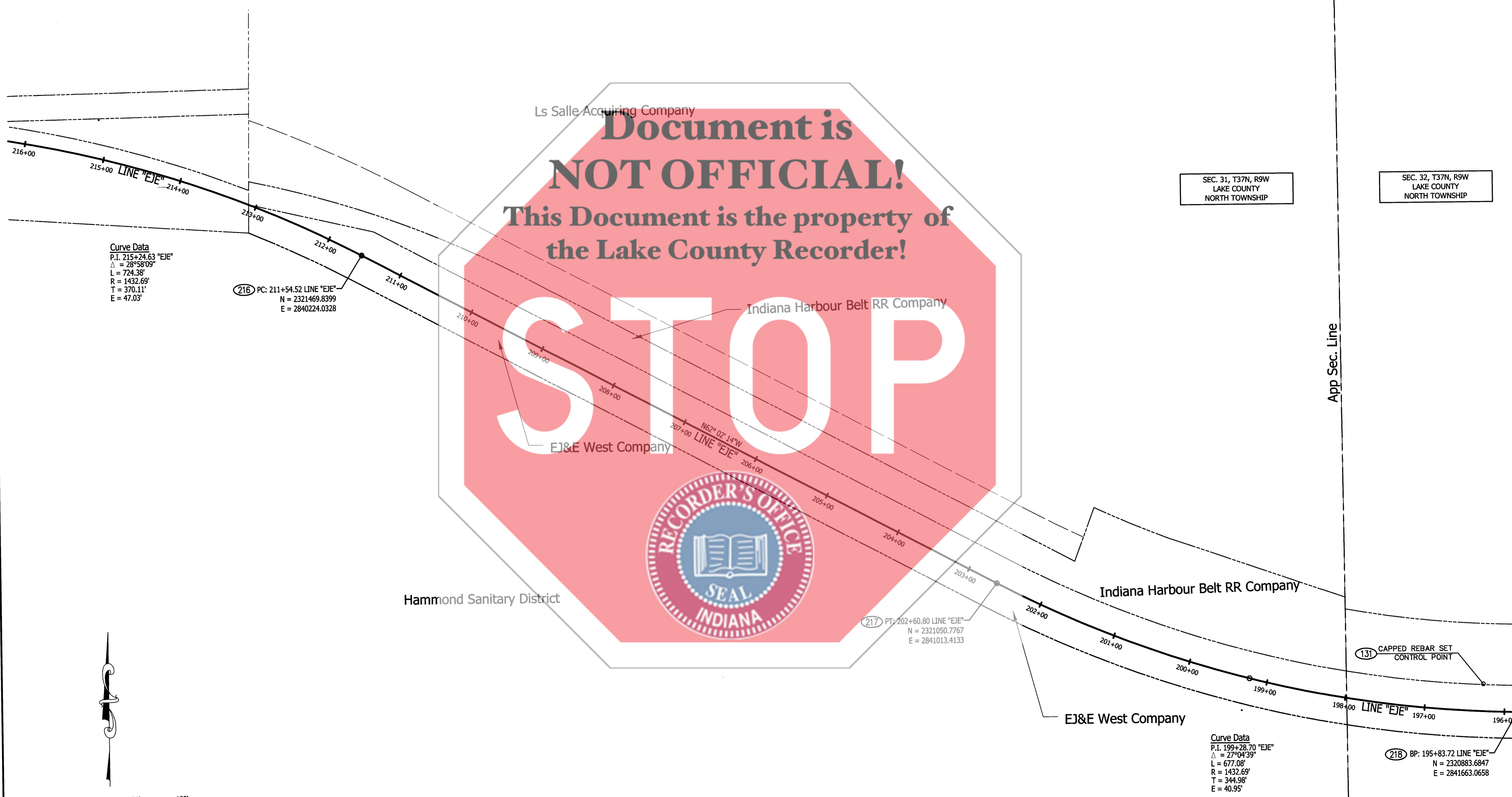
6:7

BOOK 29-67

2017 010741

STATE OF INDIANA
LAKE COUNTY
FILED FOR RECORD
2017 FEB 21 AM 11:46
MICHAEL B. BROWN
RECORDER

131 NORTH 2320918.9500
EAST 2841620.8310
NO REFERENCES AVAILABLE
196+27.54~33.95' Rt. "EJE"
CAPPED REBAR SET



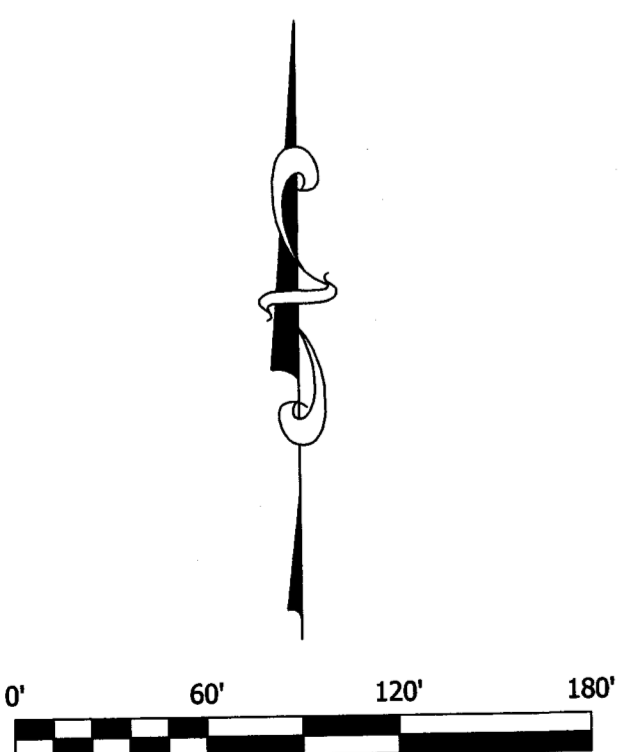
Curve Data
P.I. 215+24.63 "EJE"
 $\Delta = 28^{\circ}58'09''$
L = 724.38'
R = 1432.69'
T = 370.11'
E = 47.03'

216 PC: 211+54.52 LINE "EJE"
N = 2321469.8399
E = 2840224.0328

217 PT: 202+60.80 LINE "EJE"
N = 2321050.7767
E = 2841013.4133

Curve Data
P.I. 199+28.70 "EJE"
 $\Delta = 27^{\circ}04'39''$
L = 677.08'
R = 1432.69'
T = 344.98'
E = 40.95'

218 BP: 195+83.72 LINE "EJE"
N = 2320883.6847
E = 2841663.0658

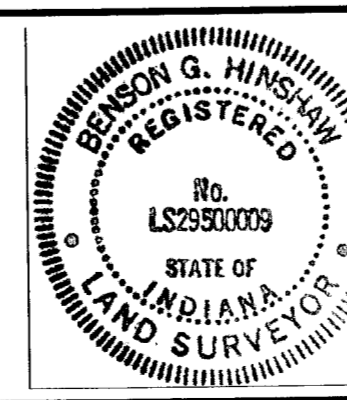


SURVEY STARTED	
08/15/2016	
SURVEY COMPLETED	
09/30/2016	
ROUTE PLAT SHEETS	
6	of 7

FIRST GROUP ENGINEERING, INC.
5925 LAKESIDE BLVD.
INDIANAPOLIS, IN 46278
PHONE: 317-290-9549

FIELD SURVEYOR STATEMENT

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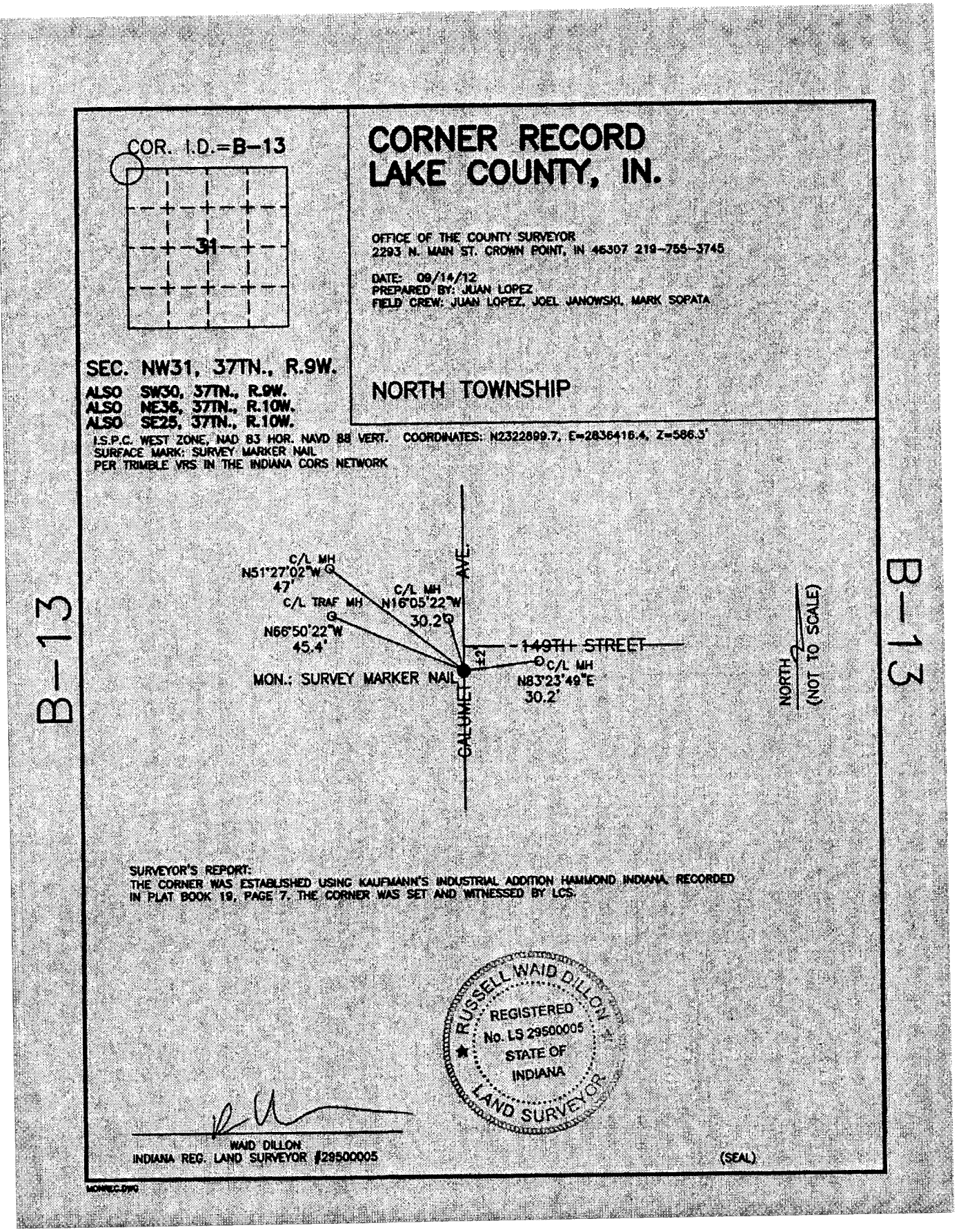
RECOMMENDED FOR APPROVAL	
<i>Brandon G. Hinchey</i> 2/1/2017	
PROFESSIONAL SURVEYOR DATE	
DESIGNED: J. HINES	DRAWN: J. HINES
CHECKED: B. HINSHAW	CHECKED: B. HINSHAW

INDIANA DEPARTMENT OF
TRANSPORTATION

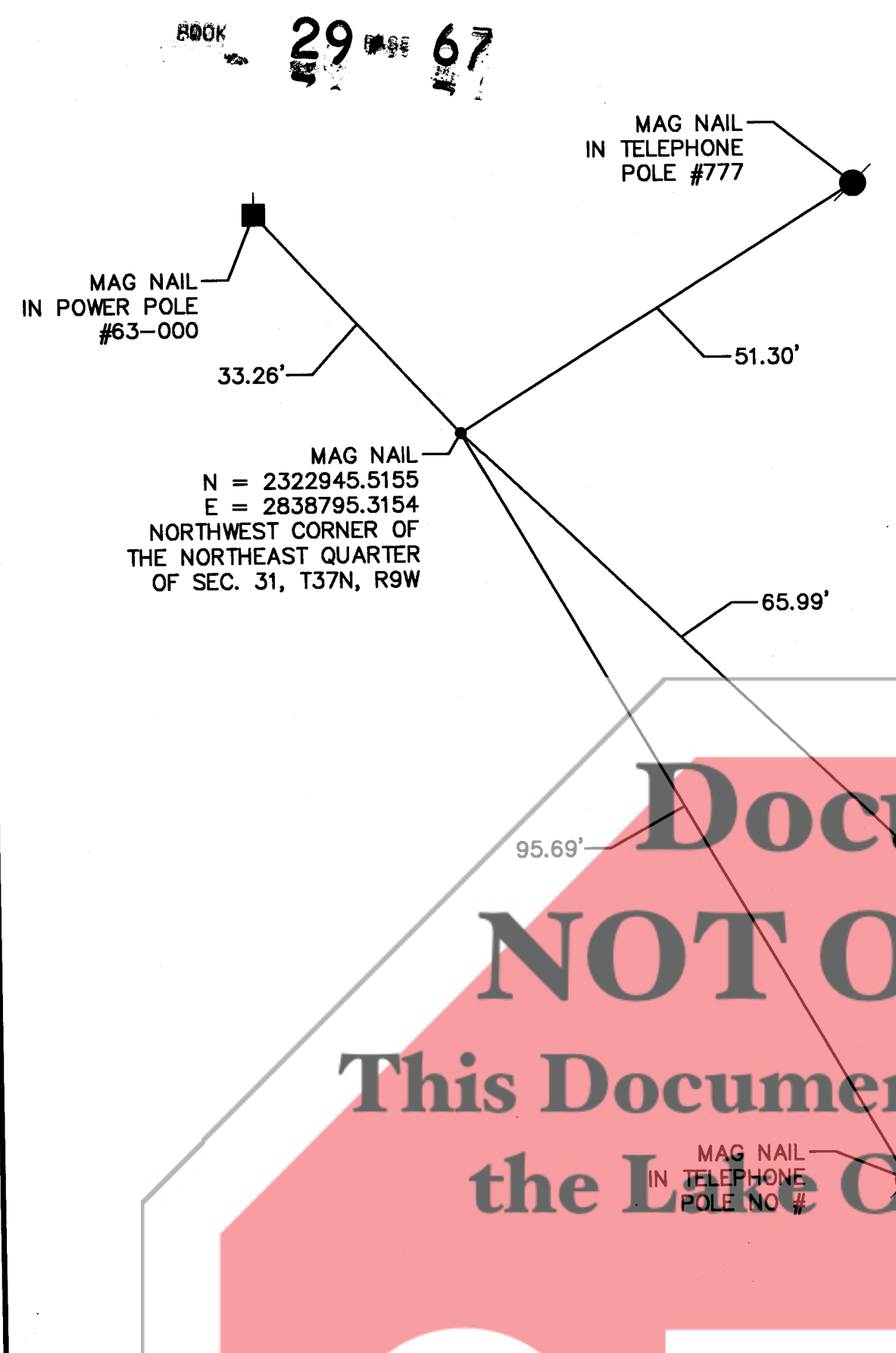
MARQUETTE GREENWAY
LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1"=60'	N/A
VERTICAL SCALE	DESIGNATION
N/A	1601145
SURVEY BOOK	SHEETS
N/A	6 of 7
CONTRACT	PROJECT
N/A	1601145

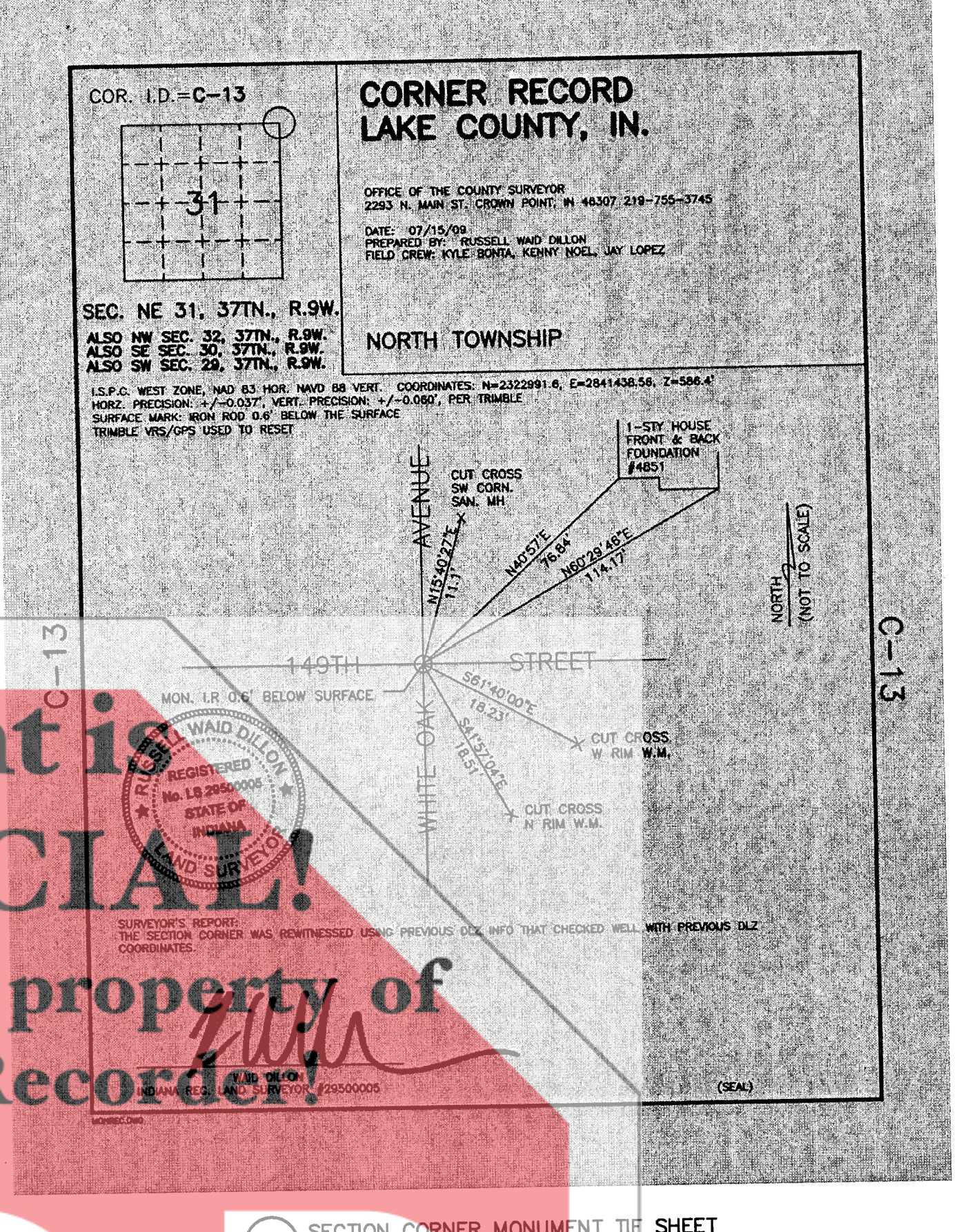
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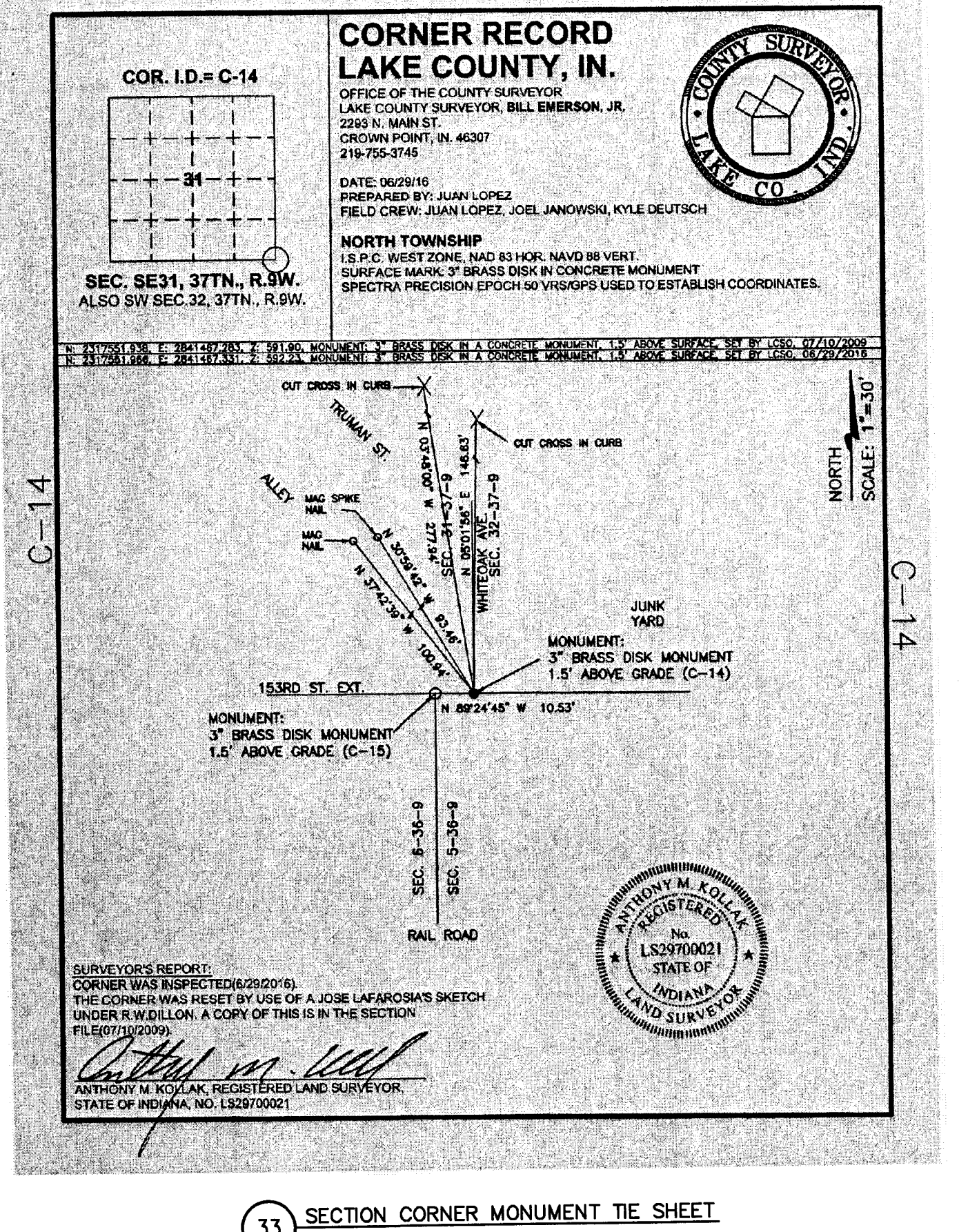
30 SECTION CORNER MONUMENT TIE SHEET



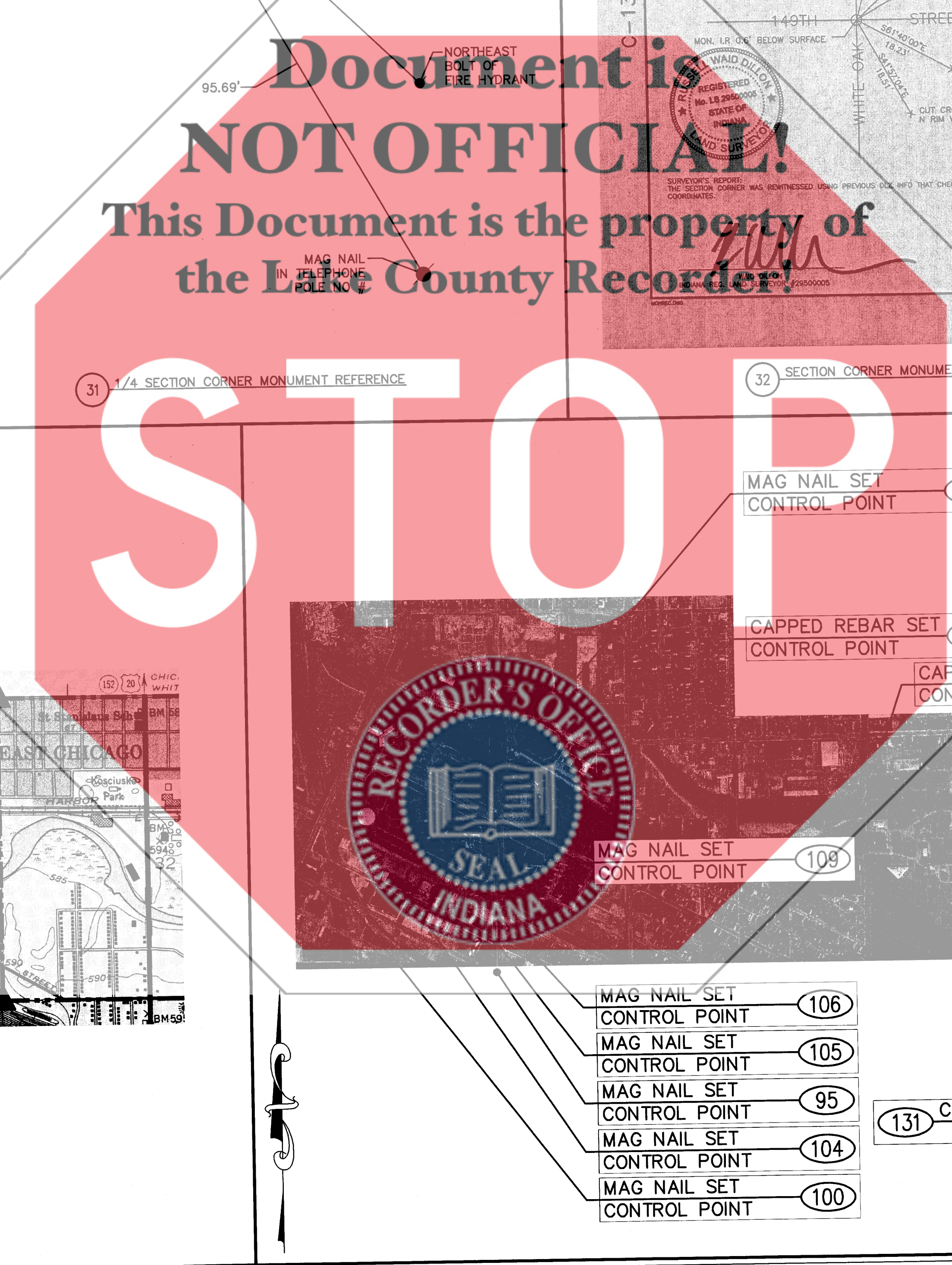
31 1/4 SECTION CORNER MONUMENT REFERENCE



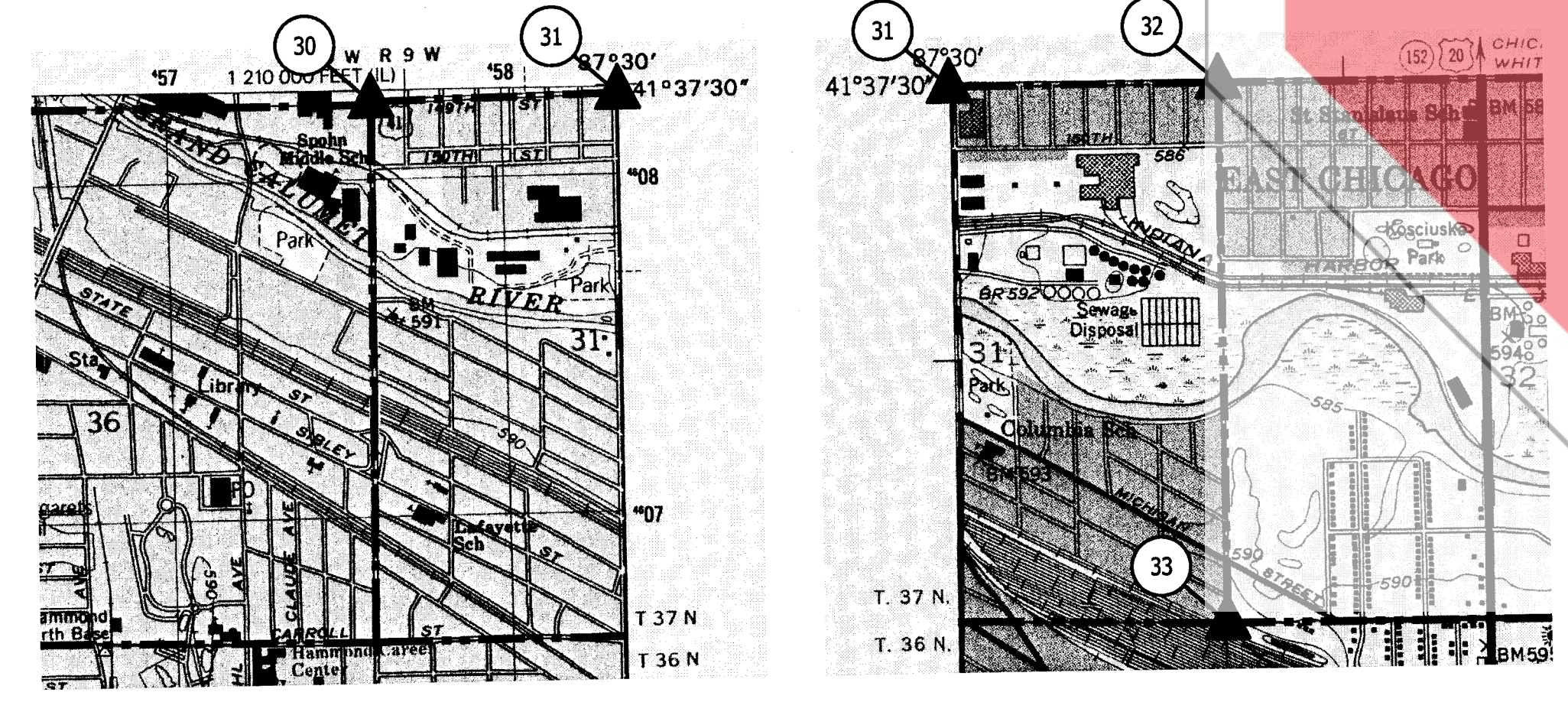
32 SECTION CORNER MONUMENT TIE SHEET



33 SECTION CORNER MONUMENT TIE SHEET



2017-010741



- MAG NAIL SET CONTROL POINT (113)
- CAPPED REBAR SET CONTROL POINT (115)
- CAPPED REBAR SET CONTROL POINT (123)
- MAG NAIL SET CONTROL POINT (109)
- MAG NAIL SET CONTROL POINT (106)
- MAG NAIL SET CONTROL POINT (105)
- MAG NAIL SET CONTROL POINT (95)
- MAG NAIL SET CONTROL POINT (104)
- MAG NAIL SET CONTROL POINT (100)
- (131) CAPPED REBAR SET CONTROL POINT

SURVEYOR'S REPORT
 Located in the Section 36, Township 37 North, Range 10 West and Sections 31 and 32, Township 37 North Range 10 West of the Second Principal Meridian, Lake County, Indiana.

The purpose of this survey is to collect data for the preparation of construction and right of way plans. This is not a property retracement survey. Any apparent property, subdivision, or easement lines and corners are based on the last deeds of record per the County Recorder's Office or occupation lines determined in the field. These lines in no way represent property, subdivision, or easement lines that could be determined from a property retracement survey. No monuments were set to represent same. In addition, any monuments depicted on this plat indicated as being found or set should be used only for the above stated purpose.

Field measurements for this survey were in accordance with the specifications outlined in IAC 865 1-12. Measurements are shown to the nearest 0.01 feet, coordinates to the nearest 0.000 feet, and the bearings to the nearest 1 second, not to indicate the precision of the work, but to allow for closure and adjustment by others if desired. Units are U.S. Survey Foot unless otherwise noted.

HORIZONTAL DATUM
 The Horizontal Datum is based on a State Plane Coordinates Indiana West Zone as determined by the INDOT CORS network utilizing an R-6 Trimble receiver.

RECORD ALIGNMENTS AND RIGHT OF WAY
 The alignment and stationing for this project was created by First Group Engineering and is a random line created this survey along the approximate route of the proposed trail to describe any proposed right of way. Line "EJE" is a recreation of Line "EJE" as shown on the plans of the Elgin, Joliet and Eastern Railway Corporation. No tracks were present and it is estimated that the uncertainty of this line is 3 feet more or less. The purpose of this line is to establish the existing right of way of the EJ & E Railway and in turn recreate the right of way of the Indiana Harbour Belt. The alignment shown is not the centerline of the proposed trail.

REFERENCED MONUMENTATION
 Control Points:
 The centerline for this project was not staked in the field. A control network was established and tied to the alignment by station and offsets and State Plane Coordinate values and are shown.

USPLS Corners
 See the references for the USPLS corners found. Should additional corners be needed, they should be reestablished and tied into this survey. The USPLS corners found were per the Lake County Surveyor, and were tied in using a Trimble R6 receiver utilizing the INCORS Network. The estimated uncertainty in these location are 3 feet more or less.

I AFFIRM UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER, UNLESS REQUIRED BY LAW

Bonnie S. Hines

STATE OF INDIANA - LAKE COUNTY FILED FOR RECORD 2017 FEB 21 AM 11:46 MICHAEL B. BROWN RECORDER

SURVEY STARTED 08/15/2016 SURVEY COMPLETED 09/30/2016 ROUTE PLAT SHEETS 7 of 7	FIRST GROUP ENGINEERING, INC. 5925 LAKESIDE BLVD. INDIANAPOLIS, IN 46278 PHONE: 317-290-9549	FIELD SURVEYOR STATEMENT THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 IAC 1-12-20 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.	RECOMMENDED FOR APPROVAL <i>Bonnie S. Hines</i> 2/1/2017 PROFESSIONAL SURVEYOR DATE DESIGNED: J. HINES DRAWN: J. HINES CHECKED: B. HINSHAW CHECKED: B. HINSHAW	INDIANA DEPARTMENT OF TRANSPORTATION MARQUETTE GREENWAY LOCATION CONTROL ROUTE SURVEY	<table border="1"> <tr> <td>HORIZONTAL SCALE 1"=60'</td> <td>BRIDGE FILE N/A</td> </tr> <tr> <td>VERTICAL SCALE N/A</td> <td>DESIGNATION 1601145</td> </tr> <tr> <td>SURVEY BOOK N/A</td> <td>SHEETS 7 of 7</td> </tr> <tr> <td>CONTRACT N/A</td> <td>PROJECT 1601145</td> </tr> </table>	HORIZONTAL SCALE 1"=60'	BRIDGE FILE N/A	VERTICAL SCALE N/A	DESIGNATION 1601145	SURVEY BOOK N/A	SHEETS 7 of 7	CONTRACT N/A	PROJECT 1601145
HORIZONTAL SCALE 1"=60'	BRIDGE FILE N/A												
VERTICAL SCALE N/A	DESIGNATION 1601145												
SURVEY BOOK N/A	SHEETS 7 of 7												
CONTRACT N/A	PROJECT 1601145												