



SITE NAME
146TH & GRAY
 BUN NUMBER
873892

STREET ADDRESS:
 4540 EAST 146TH STREET
 WESTFIELD, IN 46074
 HAMILTON COUNTY
 USA

®

PROJECT DIRECTORY

APPLICANT
 CROWN CASTLE
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317

CIVIL ENGINEER
 FIRST GROUP ENGINEERING INC.
 5925 LAKESIDE BLVD.
 INDIANAPOLIS, INDIANA 46278
 PHONE (317) 290-9549
 FAX (317) 290-9560

DRAWING SCALE NOTE: THE DRAWINGS ARE DESIGNED FOR 11"x17" (TABLOID/LEGAL) SIZED PAPER. WHERE MUNICIPALITIES REQUIRE 24"x36" COPIES OF PRINTS, FIRST GROUP SHALL PLOT THE DRAWINGS AT A RATIO OF 2:1. ALL SUCH COPIES SHALL HAVE A SCALE 1/2 THE SHOWN SIZE.

GENERAL NOTES

DO NOT SCALE DRAWINGS
 CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS AT THE PROJECT SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

THIS SEAL CERTIFIES ONLY THE CIVIL ENGINEERING DESIGN AND RELATED DETAILS SHOWN ON THESE PLANS. THIS SEAL DOES NOT CERTIFY ANY ARCHITECTURAL, ELECTRICAL, MECHANICAL, STRUCTURAL DESIGN, AND RELATED DETAILS INCLUDED IN THESE PLANS.

FOR SITES WHERE A CRANE IS NECESSARY, THE CONTRACTOR SHALL CONFIRM UNOBSTRUCTED ROUTE FOR THE CRANE FROM PUBLIC ROAD TO TOWER SITE PRIOR TO CONSTRUCTION. NO AERIAL OBSTRUCTIONS UNDER FIFTEEN FEET ABOVE GRADE, INCLUDING AERIAL UTILITY LINES, ARE ALLOWED ALONG SAID CRANE ROUTE.



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 www.call811.com

NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN OR INTRODUCED INTO A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS (ELECTRONIC, MECHANICAL, PHOTO COPYING, RECORDING, OR OTHERWISE), OR FOR ANY PURPOSE, WITHOUT THE EXPRESS WRITTEN PERMISSION OF FIRST GROUP ENGINEERING INC.

PROJECT INFORMATION

TYPE OF CONSTRUCTION:
 PROJECT TYPE: REMOVE EXISTING 100' WOODPOLE TOWER
 REPLACE WITH 100' STEEL MONOPOLE TOWER

TOWER INFORMATION:
 (LATITUDE & LONGITUDE BASED ON NAD 1983)
 LATITUDE: 40° 00' 05.38"
 LONGITUDE: -86° 05' 35.83"

PROPERTY OWNERS:
 CROWN CASTLE
 2000 CORPORATE DRIVE
 CANONSBURG, PA 15317

TOWER INFORMATION:
 1. TOWER IS LOCATED IN HAMILTON COUNTY, INDIANA.
 2. TOWER DESIGNED FOR EXPOSURE B TO THE TIA-222-G STANDARD.
 3. TOWER DESIGNED FOR A 90 MPH BASIC WIND IN ACCORDANCE WITH THE TIA-222-G STANDARD.
 4. TOWER IS ALSO DESIGNED FOR A 40 MPH BASIC WIND WITH 1.00 IN ICE. ICE IS CONSIDERED TO INCREASE IN THICKNESS WITH HEIGHT.
 5. DEFLECTIONS ARE BASED UPON A 60 MPH WIND.
 6. TOWER STRUCTURE CLASS II.
 7. TOPOGRAPHIC CATEGORY 1 WITH CREST HEIGHT OF 0.00 FT
 8. TOWER RATING: 59.6%

TOWER INFORMATION:
 ADDITIONAL PARKING REQUIRED: NONE
 EXISTING PARKING MODIFICATIONS: NONE REQUIRED



CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES:

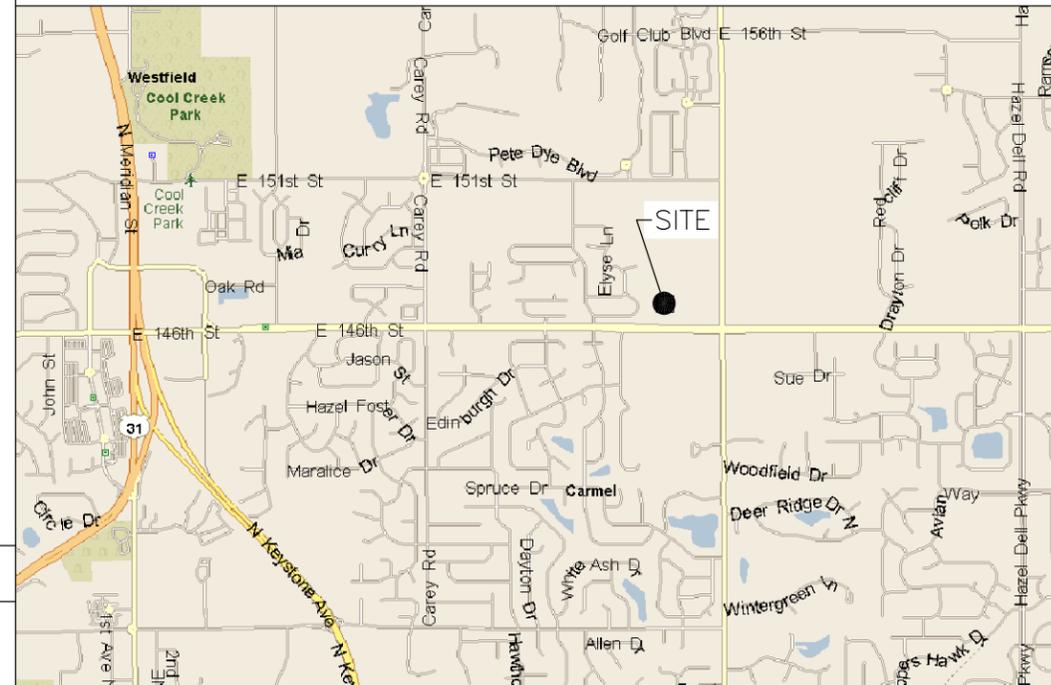
- 2014 INDIANA BUILDING CODE: (2006 IBC WITH INDIANA AMENDMENTS)
- 2013 INDIANA ELECTRICAL CODE: (2008 NEC WITH AMENDMENTS)
- 2014 INDIANA MECHANICAL CODE: (2012 WITH INDIANA AMENDMENTS)
- 2014 INDIANA PLUMBING CODE
- 2014 INDIANA FIRE PREVENTION CODE (2012 WITH AMENDMENTS)
- CITY/COUNTY ORDINANCES
- LOCAL BUILDING CODE
- IOSHA

DRAWING INDEX

- T-1 TITLE SHEET
- S-1 SURVEY (BY OTHERS) (FOR INFORMATION ONLY)
- S-1A PARCEL PLAN
- S-2 SURVEY (BY OTHERS) (FOR INFORMATION ONLY)
- A-1 TOWER ELEVATION
- A-2 SITE PLAN
- A-3 LANDSCAPE PLAN

APPROVALS

OPERATIONS	DATE
RF ENGINEER	DATE
ZONING ADMINISTRATOR	DATE
SITE ACQUISITION	DATE
CROWN CASTLE CONSTRUCTION MANAGER	DATE
PROPERTY OWNER	DATE
POWER APPROVAL	DATE
TELCO APPROVAL	DATE



VICINITY MAP

NOT TO SCALE

DIRECTIONS TO SITE:

DEPART INDIANAPOLIS INTERNATIONAL AIRPORT ON LOCAL ROAD(S) (NORTH) 0.2 MI., TURN RIGHT (NORTH-EAST) ONTO LOCAL ROAD(S) 0.2 MI., MERGE ONTO LOCAL ROAD(S) 109 YDS, MERGE ONTO COLONEL H WEIR COOK MEMORIAL DR 1.2 MI., KEEP STRAIGHT ONTO RAMP 0.2 MI., KEEP LEFT TO STAY ON RAMP 0.2 MI., KEEP LEFT TO STAY ON RAMP 0.5 MI., TAKE RAMP (LEFT) ONTO I-70 3.0 MI., AT EXIT 73B, TAKE RAMP (RIGHT) ONTO I-465 [I-74] 15.2 MI., TURN OFF ONTO RAMP 0.2 MI., TAKE RAMP (RIGHT) ONTO I-465 [US-52] 5.5 MI., AT EXIT 31, TURN RIGHT ONTO RAMP 0.4 MI., KEEP LEFT TO STAY ON RAMP 43 YDS, KEEP STRAIGHT ONTO LOCAL ROAD(S) 32 YDS, ROAD NAME CHANGES TO US-31 [N MERIDIAN ST] 6.1 MI., TURN RIGHT (EAST) ONTO E GREYHOUND PASS 0.4 MI., TURN LEFT (EAST) ONTO E 146TH ST 1.8 MI., TURN LEFT (NORTH) ONTO N GRAY RD, THEN IMMEDIATELY TURN LEFT (WEST) ONTO E 146TH ST 0.2 MI., TURN RIGHT (NORTH) ONTO LOCAL ROAD(S) 142 YDS, ARRIVE AT SITE.



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NO.	DATE	DESCRIPTION	BY	
			MWL	MWL
1	04/27/15	ISSUED FOR LEASE EXHIBIT		
2	04/28/15	ISSUED FOR ZONING REVIEW		
3	06/30/15	ISSUED FOR ZONING REVIEW		

DRAWN BY: MWL
 CHECKED BY: M.A.N.
 AUDIT DATE: 04/22/15

SITE AUDIT INFORMATION

AUDIT CO: KGN
 AUDIT DATE: 12/18/07

SITE NAME

146TH & GRAY

BUSINESS UNIT NUMBER

873892

SITE ADDRESS

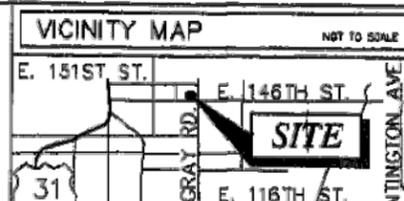
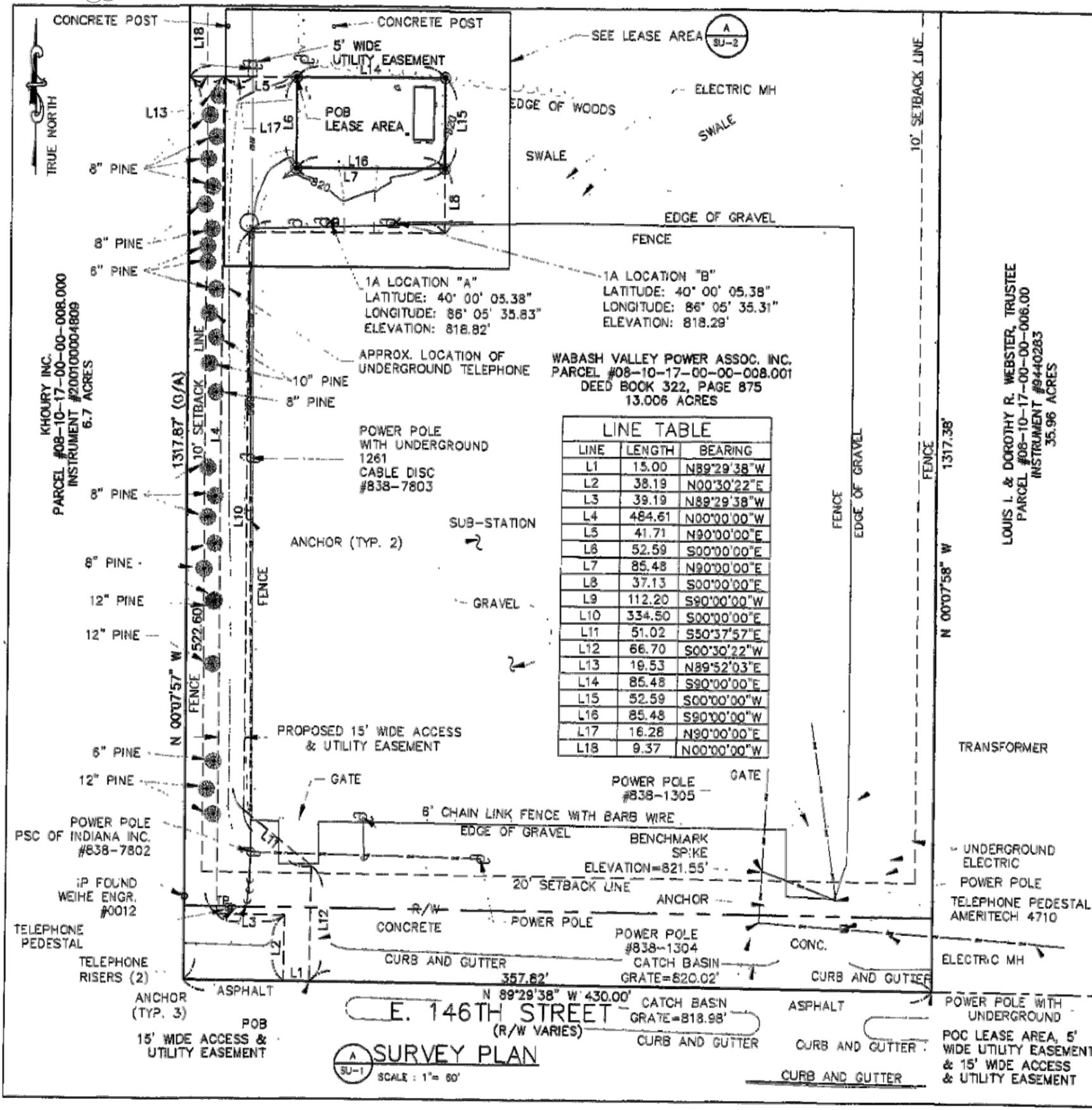
4540 EAST 146TH STREET
 WESTFIELD, IN 46074
 HAMILTON COUNTY
 USA

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1



GENERAL NOTES

- VERTICAL DATUM: NAVD 83
- HORIZONTAL DATUM: NAD 83
- 1A LOCATION "A" LATITUDE: 40°00'05.38" LONGITUDE: 86°05'35.83" ELEVATION: 818.82'
- 1A LOCATION "B" LATITUDE: 40°00'05.38" LONGITUDE: 86°05'35.31" ELEVATION: 818.29'
- SITE NO: 3018.19
- SITE NAME: WESTFIELD
- APPLICANT: LATTICE COMMUNICATIONS, LLC 441 VINE ST., SUITE 3900 CINCINNATI, OHIO 45202
- OWNER: WABASH VALLEY POWER ASSOC INC 4550 E. 146TH STREET CARMEL, IN 46033
- JURISDICTION: TOWN OF WESTFIELD & WASHINGTON TOWNSHIP
- PARCEL: 08-10-17-00-00-008.001
- ZONING DISTRICT: SF-3 (SINGLE FAMILY 3)
- TRUE NORTH: OPS OBSERVATION
- DATE OF SURVEY: 11/14/01
- THE PROPOSED LEASE AREA LIES WITHIN ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN, AS SHOWN ON THE FLOOD INSURANCE RATE MAP, TOWN OF WESTFIELD, HAMILTON COUNTY, INDIANA, COMMUNITY PANEL NUMBER 180023 CODED EFFECTIVE DATE 05/11/03, FEDERAL EMERGENCY
- ALL UNDERGROUND UTILITY INFORMATION SHOWN HEREON WAS DETERMINED FROM SURFACE EVIDENCE. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL LINES AT 1-800-382-8344 A MINIMUM OF 48 HOURS PRIOR TO PLANNED ACTIVITY.

PLAN REFERENCES

- BEARINGS BASED ON: TRUE NORTH
- DEED REFERENCE: D.S. 322, PG. 675

FAA CERTIFICATION

I HEREBY CERTIFY THAT THE LATITUDE, LONGITUDE AND ELEVATIONS PRESENTED HEREON MEET THE REQUIREMENTS OF THE FAA WITH THE FOLLOWING ACCURACIES:

+/- THREE (3) FEET VERTICALLY
 +/- FIFTEEN (15) FEET HORIZONTALLY

REGISTERED LAND SURVEYOR _____ DATE _____

ZONING INFORMATION

ZONING DISTRICT: SF-3 (SINGLE FAMILY)

MINIMUM	REQUIRED	EXISTING
LOT AREA:	NA	NA
ROAD FRONTAGE:	NA	NA
FRONT YARD SETBACK:	20'	NA
SIDE YARD SETBACK:	10'	NA
REAR YARD SETBACK:	10'	NA

MAXIMUM:
 MAXIMUM BUILDING HEIGHT: NA NA
 MAXIMUM TOWER HEIGHT: NA NA

TECTONIC ENGINEERING & SURVEYING CONSULTANTS P.C.
 9100 Centre Pointe Drive, Suite 100
 West Chester, OH 45069
 Phone: (513) 942-9530
 www.tectonicengineering.com

Lattice Communications, LLC
 441 Vine Street
 Suite 3900
 Cincinnati, Ohio 45202
 Tel. 513 381-7775
 Fax. 513 381-1292

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO LATTICE COMMUNICATIONS, LLC IS STRICTLY PROHIBITED.

PROJECT: WESTFIELD

4550 E. 146TH STREET
 CARMEL, INDIANA 46033

PROJECT NO: 3018.19
 DRAWN BY: KTB CHECKED BY: AJR

SUBMITTALS

NO.	DATE	DESCRIPTION
△	4/20/04	REVISED EASEMENTS
△	2/16/04	AS-BUILT
△	6/11/03	REVISED SURVEY
△	1/10/02	ADDED 17 LOCATIONS
△	11/28/01	ISSUED FOR COMMENT

FOR INFORMATION ONLY

REGISTERED LAND SURVEYOR _____ DATE _____

ZONING INFORMATION

ZONING DISTRICT: SF-3 (SINGLE FAMILY)

MINIMUM	REQUIRED	EXISTING
LOT AREA:	NA	NA
ROAD FRONTAGE:	NA	NA
FRONT YARD SETBACK:	20'	NA
SIDE YARD SETBACK:	10'	NA
REAR YARD SETBACK:	10'	NA

MAXIMUM:
 MAXIMUM BUILDING HEIGHT: NA NA
 MAXIMUM TOWER HEIGHT: NA NA

SHEET TITLE: SURVEY PLAN
 SHEET NUMBER: SU-1

NO.	DATE	DESCRIPTION	BY	
			MWL	MWL
1	04/27/15	ISSUED FOR LEASE EXHIBIT		
2	04/29/15	ISSUED FOR ZONING REVIEW		
3	06/30/15	ISSUED FOR ZONING REVIEW		

DRAWN BY: MWL
 CHECKED BY: M.A.N.
 AUDIT DATE: 04/22/15

SITE AUDIT INFORMATION

AUDIT CO: KGN
 AUDIT DATE: 12/18/07

SITE NAME
 146TH & GRAY

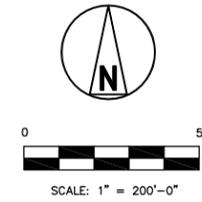
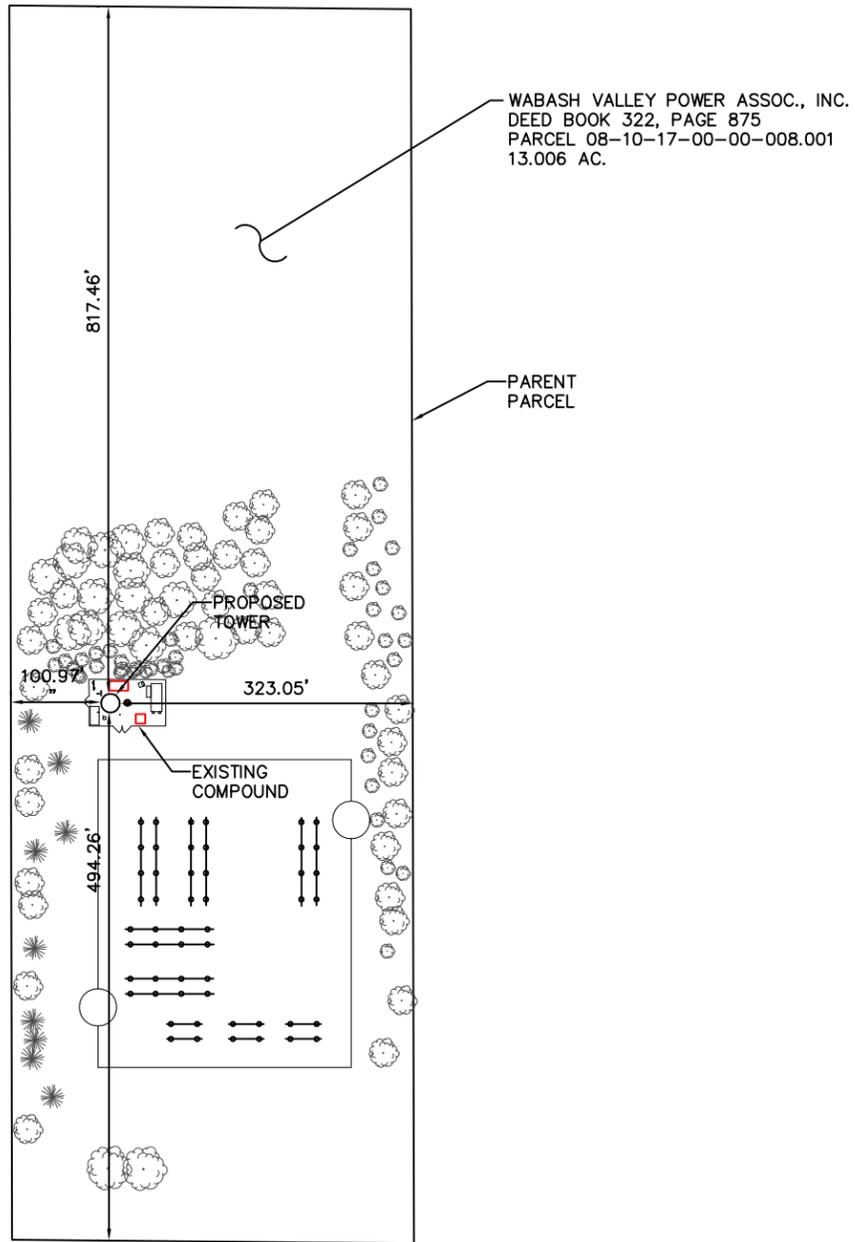
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 SURVEY

SHEET NUMBER
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REVISIONS		BY	MWL	MWL					
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SHEET TITLE

PARCEL PLAN

SHEET NUMBER

S-1A

TECTONIC
PLANNING
ENGINEERING
SURVEYING
CONSTRUCTION MANAGEMENT

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9100 Centre Pointe Drive, Suite 100
West Chester, OH 45088
Phone: (513) 842-9330
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WESTFIELD

4550 E. 146TH STREET
CARMEL, INDIANA 46033

PROJECT NO: 3018.19

DRAWN BY: KTB CHECKED BY: AJR

SUBMITTALS		
NO.	DATE	DESCRIPTION
E	4/20/04	REVISED EASEMENTS
D	2/16/04	AS-BUILT
C	6/11/03	REVISED SURVEY
B	1/10/02	ADDED 1A LOCATIONS
A	11/21/01	ISSUED FOR COMMENT

ENGINEER SEAL

SHEET TITLE
LEASE AREA & LEGALS

SHEET NUMBER
SU-2

NO.	DATE	DESCRIPTION	BY	REVISIONS		
			MWL	MWL	MWL	MWL
1	04/27/15	ISSUED FOR LEASE EXHIBIT	MWL			
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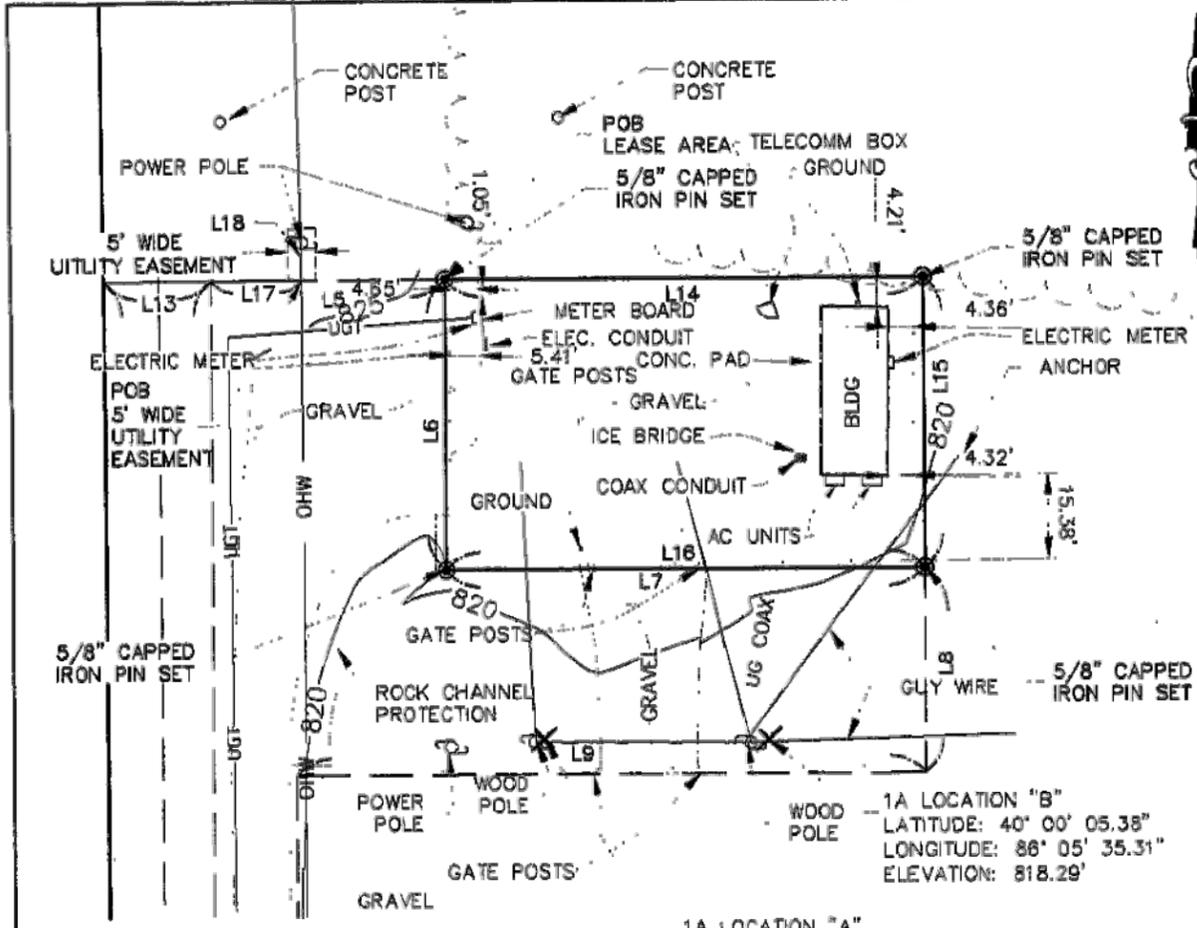
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SHEET TITLE
SURVEY

SHEET NUMBER



LEASE AREA
SCALE: 1" = 30'

LINE	LENGTH	BEARING
L5	41.71	N90°00'00"E
L6	52.59	S00°00'00"E
L7	85.48	N90°00'00"E
L8	37.13	S00°00'00"E
L9	112.20	S90°00'00"W
L14	85.48	S90°00'00"E
L15	52.59	S00°00'00"W
L16	85.48	S90°00'00"W
L18	9.37	N00°00'00"W

LEASE AREA
Sited in the west half of the southeast quarter of the southeast quarter of Section 17, Township 18 North, Range 4 east, Washington Township, Hamilton County, State of Indiana, being a portion of a 13.006 acre tract as conveyed to Wabash Valley Power Assoc. Inc by Deed Book 322, Pg. 875 as recorded in Hamilton County Recorder's Office and containing 4,495.8452 square feet (0.1032 acres) of land and being more particularly described as follows:

Commencing at a the southeast corner of said 13.006 acre tract; thence, along the southerly property line of said 13.006 acre tract, N89°29'38"W, 430.00 feet to a point at the southwest corner of said 13.006 acre tract; thence, along the westerly property line of said 13.006 acre tract, N00°07'57"W, 522.60 feet to a point; thence, through and across said 13.006 acre tract, N89°52'03"E, 19.53 feet to a point; thence, along the northerly line of said lease area, S90°00'00"E, 85.48 feet to an iron pin set at the northeast corner of said lease area; thence, along the easterly line of said lease area, S00°00'00"W, 52.59 feet to an iron pin set at the southeast corner of said lease area; thence, along the southerly line of said lease area, S90°00'00"W, 85.48 feet to an iron pin set at the southwest corner of said lease area; thence, along the westerly line of said lease area, N00°00'00"W, 52.59 feet to the point of beginning. Subject to any and all easements, rights-of-way, and restrictions of record.

5' WIDE UTILITY EASEMENT
Sited in the west half of the southeast quarter of the southeast quarter of Section 17, Township 18 North, Range 4 east, Washington Township, Hamilton County, State of Indiana, being a portion of a 13.006 acre tract as conveyed to Wabash Valley Power Assoc. Inc by Deed Book 322, Pg. 875 as recorded in Hamilton County Recorder's Office and containing 46.8260 square feet (0.0011 acres) of land being a 5 foot wide utility easement (2.5 foot both sides) the centerline of which is more particularly described as follows:

Commencing at a the southeast corner of said 13.006 acre tract; thence, along the southerly property line of said 13.006 acre tract, N89°29'38"W, 430.00 feet to a point at the southwest corner of said 13.006 acre tract; thence, along the westerly property line of said 13.006 acre tract, N00°07'57"W, 522.60 feet to a point; thence, through and across said 13.006 acre tract, N89°52'03"E, 19.53 feet to a point; thence, along the northerly line of said lease area, S90°00'00"E, 18.28 feet to the POINT OF BEGINNING; thence, along the centerline of said 5 foot wide utility easement, N00°00'00"W, 9.37 feet to the point of terminus of said 5 foot wide utility easement. Subject to any and all easements, rights-of-way, and restrictions of record.

15' WIDE ACCESS AND UTILITY EASEMENT
Sited in the west half of the southeast quarter of the southeast quarter of Section 17, Township 18 North, Range 4 east, Washington Township, Hamilton County, State of Indiana, being a portion of a 13.006 acre tract as conveyed to Wabash Valley Power Assoc. Inc by Deed Book 322, Pg. 875 as recorded in Hamilton County Recorder's Office and containing 12,413.3242 square feet (0.2850 acres) of land, being a 15 foot wide access and utility easement which is more particularly described as follows:

Commencing at a the southeast corner of said 13.006 acre tract; thence, along the southerly property line of said 13.006 acre tract, N89°29'38"W, 357.82 feet to the POINT OF BEGINNING; thence, along the said southerly property line and said 15' wide access and utility easement, N89°29'38"W, 15.00 feet to a point; thence, N00°30'22"E, 38.19 feet to a point; thence, N89°29'38"W, 39.19 feet to a point; thence, N00°00'00"W, 484.61 feet to a point; thence, N90°00'00"E, 41.71 feet to an iron pin set at the northwest corner of the above described lease area; thence, along the westerly line of said lease area, S00°00'00"E, 52.59 feet to an iron pin set at the southwest corner of said lease area; thence, along the southerly line of said lease area, N90°00'00"E, 85.48 feet to an iron pin set at the southeast corner of the above described lease area; thence, S90°00'00"E, 37.13 feet to a point; thence, S90°00'00"W, 112.20 feet to a point; thence, S00°00'00"E, 354.50 feet to a point; thence, S50°37'57"E, 51.02 feet to a point; thence, S00°00'00"W, 56.70 feet to the point of beginning of said 15 foot wide access and utility easement. Subject to any and all easements, rights-of-way, and restrictions of record.

THIS SURVEY PLAN IS NOT THE RESULT OF A FULL BOUNDARY SURVEY. IT IS THE RESULT OF COMPILATION OF RECORD INFORMATION AND LOCATION OF AVAILABLE MONUMENTATION.

ANTHONY J. ROBINSON
INDIANA REG. SURVEYOR NO. LS2030009

