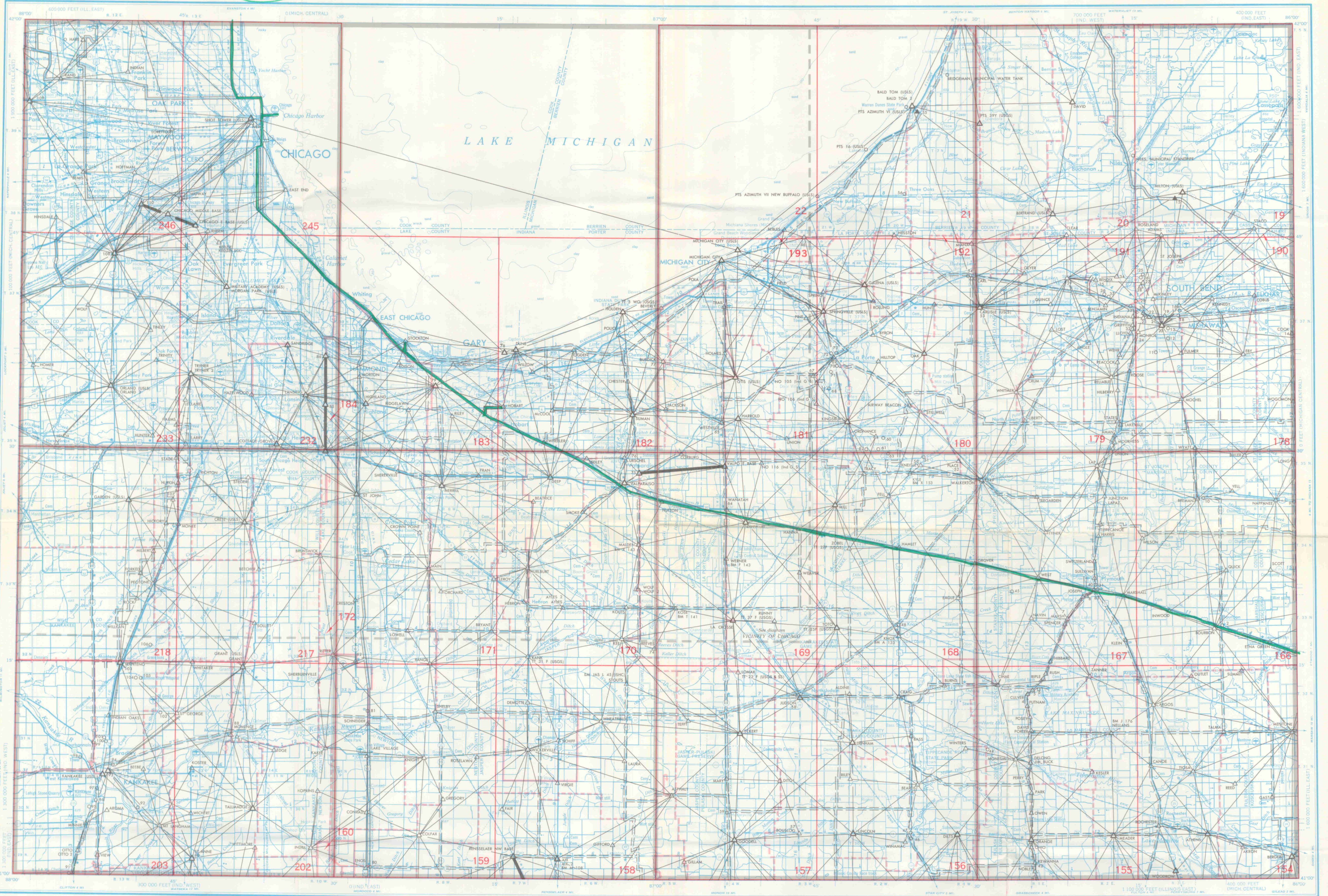


L-23087
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GEODETIC CONTROL DIAGRAM

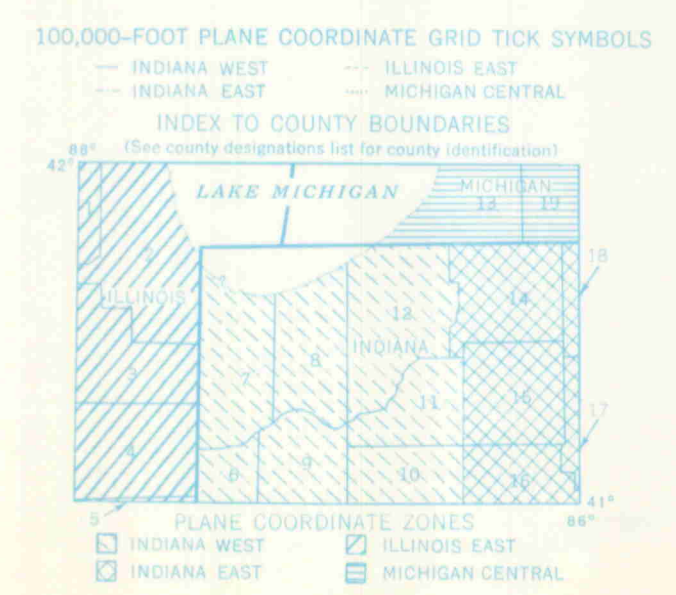


CHICAGO, ILLINOIS; INDIANA, MICHIGAN (NK 16-8)

Base Prepared by the Army Map Service (AGSM), Corps of Engineers, U.S. Army, Washington, D.C. Compiled in 1954 by development methods. Coastal hydrography compiled from USGS Chart No. 75, 1954 (revisable). Horizontal and vertical control by USGS and USNS. Aerial photography 1953. Photography field annotated 1953.

HORIZONTAL CONTROL VERTICAL CONTROL

Scale 1:250,000



- | | | | |
|--|--|--|--------------------------|
| | National Ocean Survey | | Geological Survey |
| | Monumented Point - First Order | | First Order |
| | Monumented Point - Second Order | | Second Order |
| | Monumented Point - Third Order | | Third Order |
| | Located Object - Third Order | | |
| | Station reported not recovered | | |
| | Measured Base - Electronic or Taped | | |
| | Line of triangulation observed | | |
| | Line of triangulation observed from sea and only | | |
| | Measured Length - Electronic or Taped | | |
| | Theodolite Traverse - Electronic Distance | | |
| | Transit Traverse - Taped Distance Third Order | | |
| | Transit Traverse and Leveling Third Order | | |

TRANSVERSE MERCATOR PROJECTION

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

TOWNSHIP OR RANGE LINE
 LAND GRANT BOUNDARY

LEGEND
 ROAD DATA 1953

	ROADS		RAILROADS
	Heavy duty		Single track Double or Multiple
	Two lanes wide Federal route marker		Narrow gauge
	Hard surface, medium duty		Standard gauge
	More than two lanes wide		BOUNDARIES
	Two lanes wide State route marker		International
	Improved light duty		State
	Unimproved dirt		County
	Trail		Park or reservation
			LANDMARKS
			School; Church; Other
			Horizontal control point
			Spot elevation in feet
			Marsh or swamp
			Intermittent or dry stream
			Power line

NATIONAL OCEAN SURVEY
 THIRTY MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES

ORDER CONTROL DATA, SHOWN IN BLACK, BY 30 MINUTE QUADRANGLE UNITS FROM NATIONAL OCEAN SURVEY, NOAA, ROCKVILLE, MARYLAND 20852.

GEOLOGICAL SURVEY
 FIFTEEN MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES

ORDER CONTROL DATA, SHOWN IN RED, BY 15 MINUTE QUADRANGLE UNITS FROM DIRECTOR, GEOLOGICAL SURVEY, WASHINGTON, D.C. 20241

CHICAGO, ILLINOIS; INDIANA; MICHIGAN (NK 16-8)

U. S. DEPT. OF COMMERCE
 COAST AND GEODETIC SURVEY
 WASHINGTON, D. C.
 FORM - 6471 (1-63)
 DATE

JAN 1961 REVISED MAR 1976

INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the
 Coast and Geodetic Survey

PAGE 4
 QUADS 410861-2-3-4 & 410871-2-3-4
 IND-ILL-MICH
 LATITUDE 41° 00' TO 42° 00'
 LONGITUDE 86° 00' TO 88° 00'
 DIAGRAM NK 16-8 CHICAGO

KEY NO.	STATION NAME	QUAD. NO.	STATION NO.	KEY NO.	STATION NAME	QUAD. NO.	STATION NO.
1	NO 140 IND GEOD S	410862	1052	32	STUDEBAKER	410861	1048
1	ROCHESTER CTY COURTHOUSE CLOCKTOWER	410862	1088	33	SOUTH BEND STUDEBAKER CORP TANK	410861	1074
1	ROCHESTER MUN WATER TANK	410862	1089	34	MARQUETTE	410861	1029
2	BOURBON MUN STANDPIPE	410862	1073	35	BENDIX FIELD ST JOSEPH AIRPORT BEACON	410861	1054
3	ARGOS MUN WATER TANK	410862	1072	36	SOUTH BEND BENDIX AVIATION CORP BEACON	410861	1060
4	CULVER MUN WATER TANK	410862	1079	37	SOUTH BEND BENDIX CORP STACK	410861	1061
5	RANDOLPH	410862	1048	38	COR SECTS 14 15 22 23 T8S R18W USLS	410861	1007
6	CULVER MILITARY ACAD CHURCH SPIRE	410862	1077	39	LYDICK	410861	1027
6	CULVER MILITARY ACAD WATER TANK	410862	1078	40	PLYMOUTH CTY COURTHOUSE CLOCKTOWER	410862	1083
7	TWIN	410862	1064	41	PLYMOUTH MUN WATER TANK	410862	1084
8	STARKE	410862	1055	41	PLYMOUTH MUN WATER WORKS STACK	410862	1085
9	NAPPANEE WEST WATER TANK	410862	1082	42	KEWANNA BAPT CHURCH SPIRE	410862	1080
10	BREMEN MUN STANDPIPE	410862	1074	43	TIPPECANOE RIVER STATE PARK LOOKOUT TOWER	410863	1005
10	BREMEN ST PAULS LUTH CHURCH SPIRE	410862	1075	44	MONTEREY ST ANNS CATH CHURCH SPIRE	410862	1081
11	SOUTH BEND RADIO STATION WSBT MAST 1	410861	1068	45	CONVENT ANCILLA DOMINI SPIRE	410862	1076
11	SOUTH BEND RADIO STATION WSBT MAST 2	410861	1069	46	WINAMAC PULASKI CO COURTHOUSE CLOCKTOWER	410863	1055
11	SOUTH BEND RADIO STATION WSBT MAST 3	410861	1070	47	WINAMAC MUNICIPAL STANDPIPE	410863	1056
11	SOUTH BEND RADIO STATION WSBT MAST 4	410861	1071	48	KNOX COUNTY COURTHOUSE CLOCKTOWER	410863	1048
11	SOUTH BEND RADIO STATION WSBT MAST 5	410861	1072	48	KNOX MUNICIPAL STANDPIPE	410863	1049
12	MISHAWAKA MICROWAVE RELAY KSA 43 LIGHT	410861	1056	49	WALKERTON MUN WATER TANK	410862	1090
13	SOUTH BEND ST FRANCIS CONVENT WATER TANK	410861	1073	50	TT 41F USGS	410863	1023
14	NO 223 IGS	410861	1012	51	KINGSBURY ORD PLANT WATER TANK NO 5	410863	1047
15	COR SECTS 4 5 8 9 T8S R16W USLS	410861	1030	52	TT 42F USGS	410863	1033
16	BATTELL	410861	1004	53	CARLISLE LATITUDE STATION USLS	410861	1009
16	MISHAWAKA BATTELL SCHOOL STACK	410861	1055	54	NEW CARLISLE CHRISTIAN CH USLS	410864	1059
17	MISHAWAKA BALL BAND CO POWER PLT STACK	410861	1057	54	NEW CARLISLE M E CHURCH USLS	410864	1060
17	MISHAWAKA ST JOSEPH CATH CHURCH SPIRE	410861	1058	54	NEW CARLISLE MUNICIPAL TANK	410864	1061
19	SOUTH BEND EAST BASE	410861	1044	55	BERRIEN CO SE COR SEC 35 T6S R20W USLS	410864	1001
20	PENN USLS	410861	1035	56	THREE OAKS FEATHERBONE CO WATER TANK	410864	1065
20	PENN MAGNETIC STATION	410861	1035	57	BENCH MARK PUL L 70 ISHC	410863	1006
21	SOUTH BEND WEST BASE	410861	1045	58	NORTH JUDSON SS CYRIL METHODIUS CH DOME	410863	1052
22	LINCOLN	410861	1024	59	MEDARYVILLE MUNICIPAL WATER TANK	410863	1051
23	SOUTH BEND	410861	1043	60	KINGSBURY ORD PLANT WATER TANK NO 2	410864	1042
24	SOUTH BEND JAMES MONROE SCHOOL STACK	410861	1062	61	KINGSBURY ORD PLANT WATER TANK NO 3	410864	1043
24	SOUTH BEND S MOORE MUNICIPAL WATER TANK	410861	1076	62	KINGSBURY ORD PLANT WATER TANK NO 1	410864	1041
25	SOUTH BEND NOTRE DAME U WATER TANK	410861	1067	63	KINGSBURY ORD PLANT WATER TANK NO 4	410863	1046
26	SOUTH BEND U OF NOTRE DAME DOME USLS	410861	1064	65	BENCH MARK E 149	410864	1036
26	SOUTH BEND U OF N D ADMIN BLDG DOME	410861	1065	66	MERRICK	410864	1020
26	SOUTH BEND U OF N D SACRED HEART CH	410861	1066	67	LAPORTE MAGNETIC	410864	1018
27	NOTRE DAME	410861	1034	68	LAPORTE MUNI AIRPORT BEACON	410864	1049
27	NOTRE DAME AZIMUTH MARK	410861	1034	69	LAPORTE	410864	1017
29	SOUTH BEND STANDPIPE USLS	410861	1077	69	LAPORTE LAPORTE CO COURTHOUSE CLOCK TOWER	410864	1046
30	BUD	410861	1008	69	LAPORTE N IND PUB SERV CO STACK	410864	1051
30	SOUTH BEND N IND PUBLIC SERVICE CO GAS TK	410861	1063	70	LAPORTE BACHMANN WOOLEN MILLS STACK	410864	1045
31	SOUTH BEND STUDEBAKER PLANT NO 3 STACK	410861	1075	71	LAPORTE MAPLE TERRACE WATER TANK	410864	1047

INDEX TO NUMBERED HORIZONTAL CONTROL STATIONS

by the
 Coast and Geodetic Survey

KEY NO.	STATION NAME	QUAD (U)	STATION NO.
72	LAPORTE ALLIS CHALMERS MFG CO STACK	410864	1044
73	LAPORTE N IND PUB SERV CO RAD MAST	410864	1050
74	TT 35 F USGS	410872	1032
75	VALPO WEST BASF	410872	1045
76	BENCH MARK R 151	410872	1043
77	TT 4 WO USGS	410864	1006
78	MILLERS USLS	410871	1010
79	ROOSEVELT	410871	1017
80	ENOS GRAIN CO ELEVATOR	410872	1054
81	SCHNEIDER STRATTON GRAIN CO ELEVATOR	410872	1062
82	BELSHAW	410872	1004
83	PLYMOUTH N IND PUB SER CO RADIO MAST	410862	1086
83	PLYMOUTH SCHOOLHOUSE FLAGPOLE	410862	1087
83	STUBEN	410862	1056
84	BENCH MARK A 90	410873	1009
84	HAMMOND S BASE	410873	1009
85	HAMMOND BASF A STATION	410874	1015
85	HAMMOND BASE B STATION	410874	1015
86	HAMMOND N BASE	410874	1015
87	MOMENCE MUN WATER TANK	410873	1057
88	BENCH MARK 75 A 1 USGS	410873	1017
89	COTTAGE GROVE 2	410874	1008
90	BENCH MARK 50W USGS	410873	1026
90	BENCH MARK 74A USGS	410873	1026
90	ST ANNE USLS	410873	1027
90	ST ANNE MUN WATER TANK	410873	1061
91	CHEBANSE MUN WATER TANK	410873	1082
92	AROMA PK MUN WATER TANK	410873	1036
93	KANKAKEE	410873	1014
93	KANKAKEE MUN WATER TANK	410873	1046
94	KANKAKEE GENL FOODS CO WATER TANK	410873	1045
95	KANKAKEE SIMONIZ CO WATER TANK	410873	1081
96	KANKAKEE A A SMITH CORP WATER TANK	410873	1080
97	KANKAKEE STATE HOSP POWER PLANT STACK	410873	1048
98	KANKAKEE RADIO STA WKAN MAST	410873	1047
99	KANKAKEE WATER TANK	410873	1049
100	BRADLEY ARMOUR CO LAB STACK	410873	1037
101	BRADLEY N ILL PUB SERV CO WATER TANK	410873	1038
102	ST GEORGE CATHOLIC CHURCH SPIRE	410873	1062
103	MANTENO USLS	410873	1019
103	MANTENO MUN WATER TANK	410873	1053
103	MANTENO ST JOSEPH CATH CHURCH SPIRE	410873	1054
104	MANTENO STATE HOSP WATER TANK	410873	1056
105	MANTENO STATE HOSP ADMIN BLDG TOWER	410873	1055
106	VORTAC PEOTONE EON	410873	1074

KEY NO.	STATION NAME	QUAD NO.	STATION NO.
107	DUNLOP	410873	1071
108	WILLOW SPRINGS USLS	410874	1053
109	LOMBARD	410874	1032
109	LOMBARD USLS	410874	1031
110	CHICAGO WEST BASE USLS	410874	1007