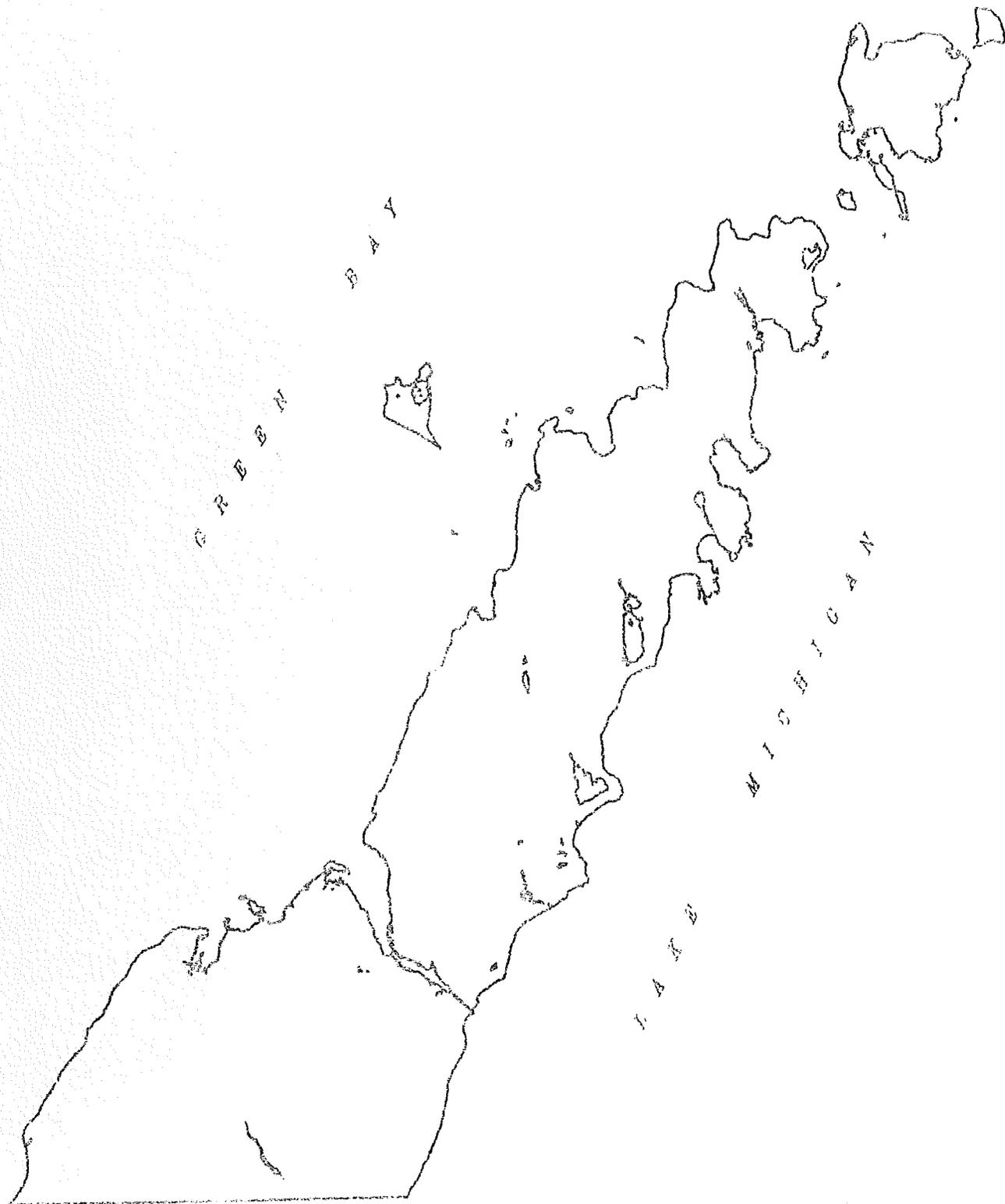
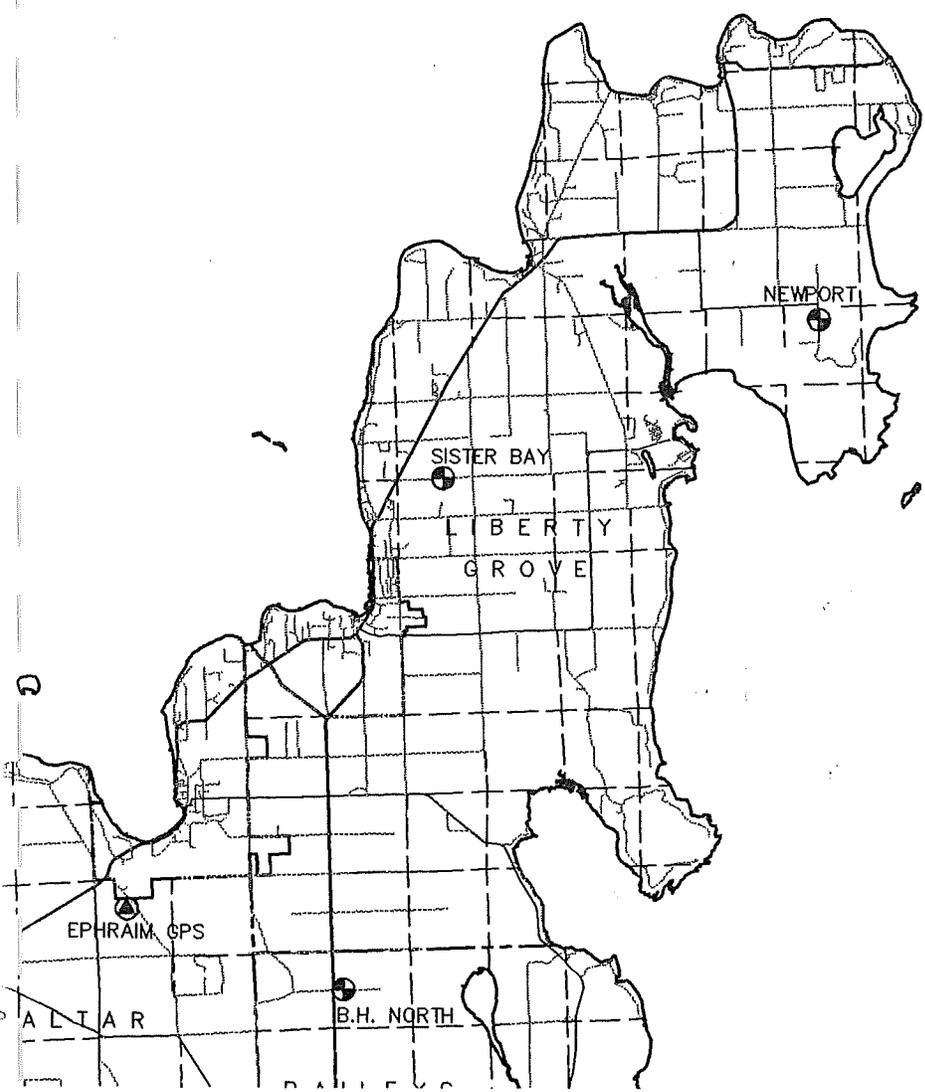
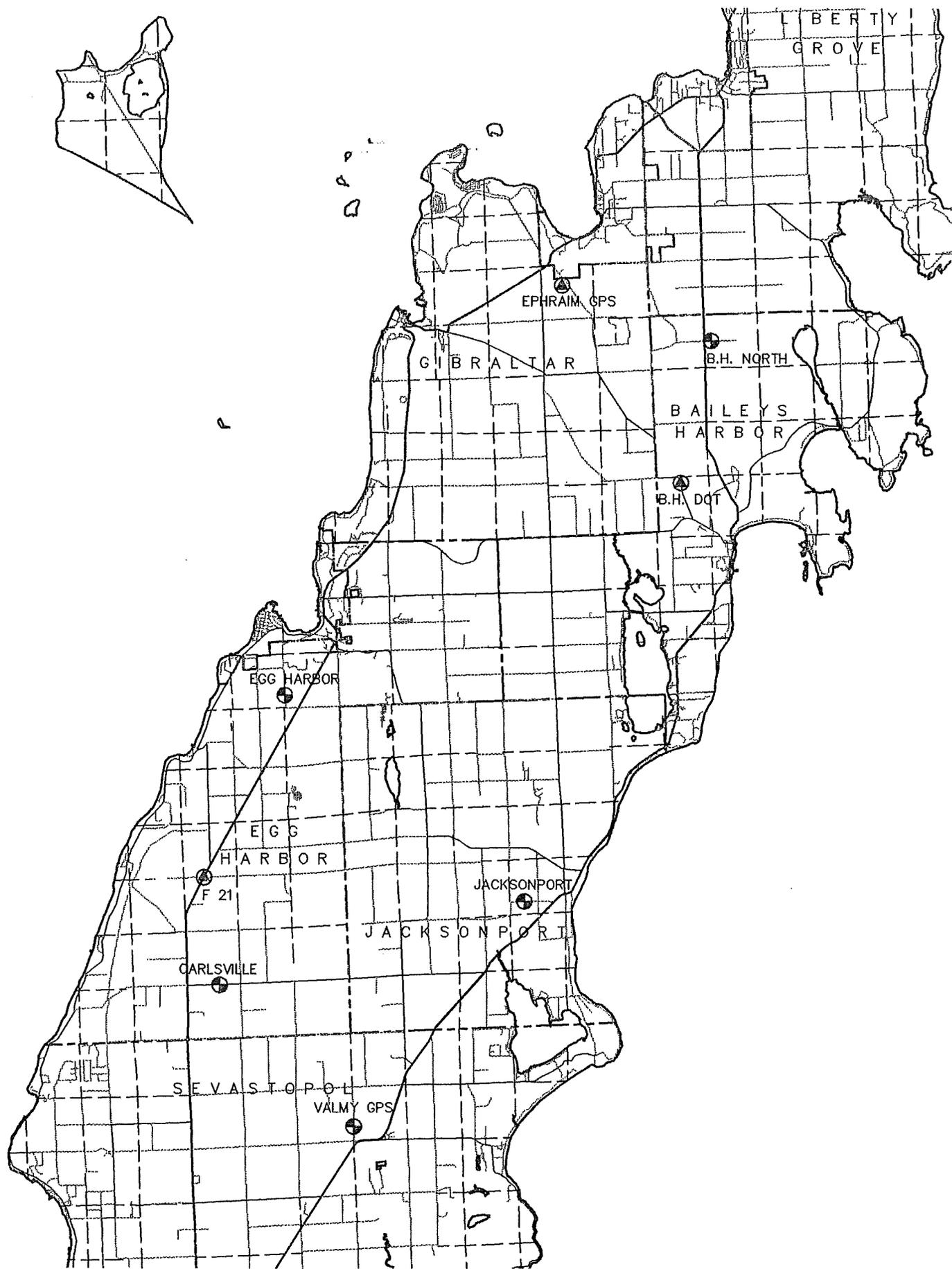


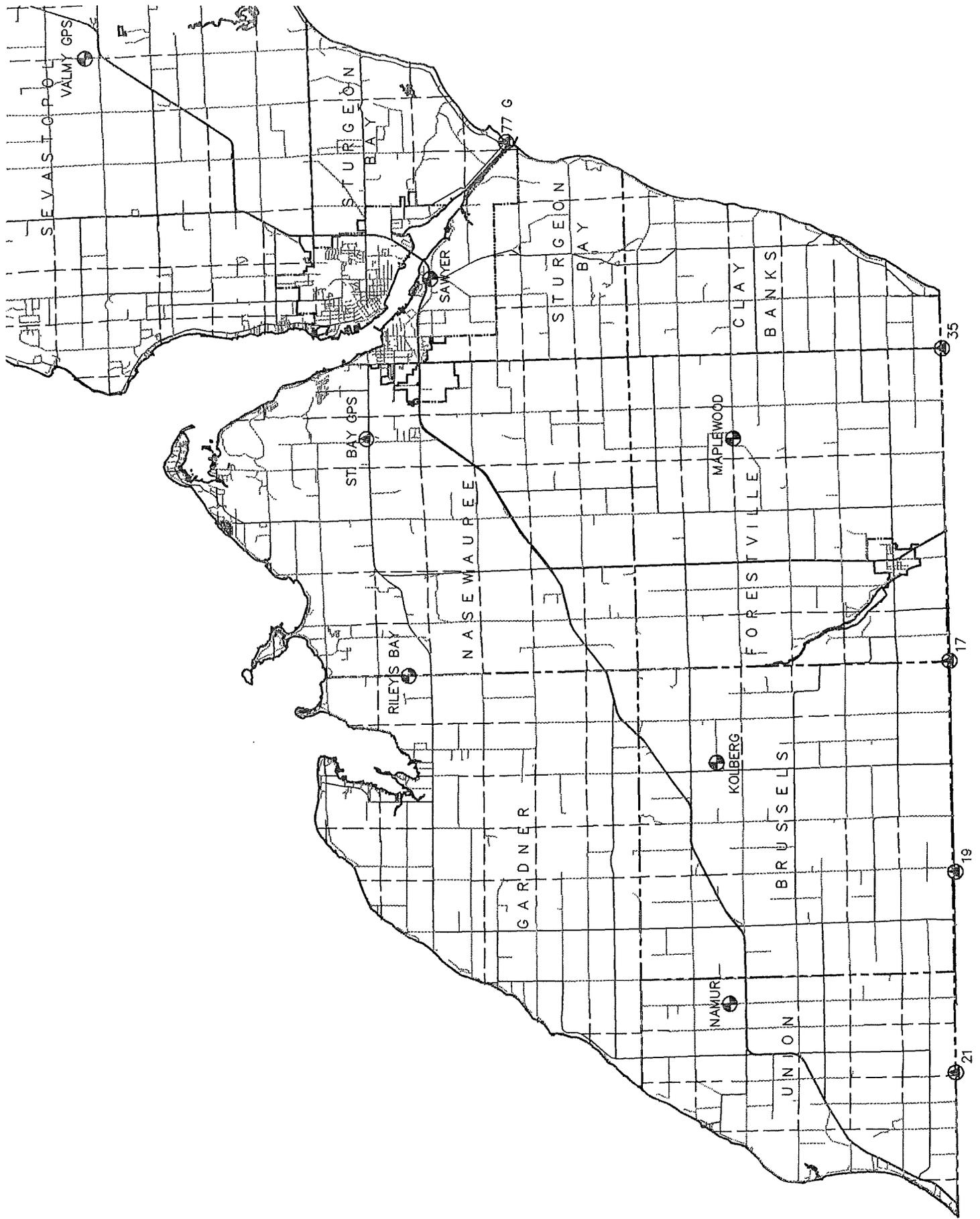
DOOR COUNTY HIGH-ACCURACY REFERENCE NETWORK



LOCATION MAPS







K E W A U N E E C O U N T Y

DOOR COUNTY DATA SHEETS

DATA SHEET BY OTHERS

1 National Geodetic Survey, Retrieval Date = OCTOBER 15, 1995

AA8058

AA8058 DESIGNATION - 77 G

AA8058 PID - AA8058

AA8058 STATE/COUNTY- WI/DOOR

AA8058 USGS QUAD - STURGEON BAY EAST (1981)

AA8058

AA8058 HORZ DATUM - NAD 83 (1994)

AA8058 VERT DATUM - NAVD 88

AA8058

AA8058 POSITION - 44 47 41.36850(N) 087 18 44.48426(W)

ADJUSTED

AA8058 94 minus 83 - +00.00434 +00.01053

NADCON

AA8058 83 minus 27 - -00.00326 +00.34542

NADCON

AA8058

AA8058

AA8058 HEIGHT - 178. (meters) 584. (feet)

SCALED

AA8058 88 minus 29 - -0. (+/- 2 cm)

VERTCON

AA8058. (NOTE - For assistance in applying shifts see file readme.dat)

AA8058

AA8058

AA8058 LAPLACE CORR- -1.80

DEFLEC93

AA8058 GEOID HEIGHT- -36.13

GEOID93

AA8058 ELLIP HEIGHT- 141.520

AA8058 X - 212,593.828

AA8058 Y - -4,528,798.101

AA8058 Z - 4,471,296.476

AA8058

AA8058

AA8058 HORZ ORDER - A

AA8058 ELLP ORDER - SECOND CLASS 1

AA8058

AA8058

AA8058.The horizontal coordinates were established by GPS observations

AA8058.and adjusted by the National Geodetic Survey in September 1995.

AA8058.This is a SPECIAL STATUS position. See SPECIAL STATUS under the

AA8058.DATUM ITEM on the data sheet items page.

AA8058

AA8058.The orthometric height was scaled from a topographic map.

AA8058

AA8058.The Laplace correction was computed from DEFLEC93 derived deflections.

AA8058

AA8058.The geoid height was determined by GEOID93.

AA8058

AA8058.The ellipsoidal height was determined by GPS observations

AA8058.and referenced to NAD 83.

AA8058

AA8058.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AA8058

AA8058;	North	East	Scale	
Converg.	362,066.019'	2,666,057.273'		
AA8058;SPC WI C	- 110,358.187 _m	812,615.882 _m	0.99994171	+1 53
46.8 MT				
AA8058;UTM 16	- 4,960,205.873	475,293.807	0.99960751	-0 13
12.3 MT				

AA8058

AA8058_STATION MARK IS A SURVEY DISK

AA8058_WITH SETTING: SET IN A RETAINING WALL OR CONCRETE LEDGE

AA8058_THE MARK IS STAMPED: 77-G 1977

AA8058_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AA8058_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AA8058+SATELLITE: SATELLITE OBSERVATIONS - August 01, 1994

AA8058

AA8058	HISTORY	- Year Condition	Recov. By
AA8058	HISTORY	- 1977 STATION MONUMENTED	US ENGINEERS
AA8058	HISTORY	- 1994 GOOD	NATIONAL GEODETIC

SURVEY

AA8058

STATION DESCRIPTION

AA8058

AA8058'DESCRIBED BY NATIONAL GEODETIC SURVEY 1994 (CFS)

AA8058'THE STATION IS LOCATED ABOUT 45 MI (72.4 KM) NORTHEAST OF GREEN BAY,

AA8058'10 MI (16.1 KM) NORTHWEST OF MAPLEWOOD, 3 MI (4.8 KM) SOUTHEAST OF

AA8058'STURGEON BAY, AT THE U.S. COAST GUARD STATION. OWNERSHIP--U.S.

AA8058'GOVERNMENT, U.S. COAST GUARD, BMC TIM WELLER, PHONE 414-743-3366,

AA8058'743-3367.

AA8058'

AA8058'TO REACH THE STATION FROM THE CENTER OF THE HIGHWAY 57, 42 BRIDGE OVER

AA8058'STURGEON BAY CANAL, GO NORTH FOR 0.6 MI (1.0 KM) TO A SIDE ROAD RIGHT,

AA8058'UTAH RD. TURN RIGHT AND GO EAST FOR 0.3 MI (0.5 KM) TO A FORK. BEAR

AA8058'RIGHT AND GO 0.3 MI (0.5 KM) ON COVE RD TO A SIDE ROAD ON LEFT, CANAL

AA8058'RD. TURN LEFT AND GO SOUTHERLY FOR 2.7 MI (4.3 KM) TO THE COAST GUARD

AA8058'STATION AND THE STATION ON LEFT.

AA8058'

AA8058'THE STATION IS A DISK SET INTO A DRILL HOLE IN THE TOP OF A SEAWALL.

AA8058'LOCATED 48.0 FT (14.6 M) EAST FROM THE APPROXIMATE CENTER OF ROAD,

AA8058'29.0 FT (8.8 M) NORTH FROM A STAIRWELL, 25.0 FT (7.6 M) SOUTHEAST FROM

AA8058'A TELEPHONE JUNCTION BOX, 20.0 FT (6.1 M) NORTH-NORTHEAST FROM A
AA8058'WARNING SIGN AND 3.0 FT (0.9 M) WEST-NORTHWEST FROM THE EDGE OF
A

AA8058'SEAWALL.

1 National Geodetic Survey, Retrieval Date = OCTOBER 15, 1995
QL0662

QL0662 DESIGNATION - EPHRAIM GPS
QL0662 PID - QL0662
QL0662 STATE/COUNTY- WI/DOOR
QL0662 USGS QUAD - EPHRAIM (1983)
QL0662
QL0662 HORZ DATUM - NAD 83 (1991)
QL0662 VERT DATUM - NAVD 88
QL0662
QL0662 POSITION - 45 08 11.00655(N) 087 11 09.48159(W)

ADJUSTED

QL0662 91 minus 83 - +00.00096 +00.00491

NADCON

QL0662 83 minus 27 - -00.03612 +00.39404

NADCON

QL0662

QL0662

QL0662 HEIGHT - 230.7 (meters) 757. (feet)

V_GPS OBS

QL0662 88 minus 29 - -0.0 (+/- 2 cm)

VERTCON

QL0662. (NOTE - For assistance in applying shifts see file readme.dat)

QL0662

QL0662

QL0662 LAPLACE CORR- -0.60

DEFLEC93

QL0662 GEOID HEIGHT- -36.62

GEOID93

QL0662 ELLIP HEIGHT- 193.790

QL0662 X - 221,268.288

QL0662 Y - -4,501,562.055

QL0662 Z - 4,498,190.985

QL0662

QL0662

QL0662 HORZ ORDER - B

QL0662 ELLP ORDER - FOURTH CLASS 1

QL0662

QL0662

QL0662.The horizontal coordinates were established by GPS observations
QL0662.and adjusted by the National Geodetic Survey in June 1991.

QL0662

QL0662.The NGVD 29 orthometric height was determined by GPS
observations.

QL0662.The NAVD 88 height was computed by applying the VERTCON shift
value to

QL0662.the NGVD 29 height.

QL0662

QL0662.The Laplace correction was computed from DEFLEC93 derived deflections.

QL0662

QL0662.The geoid height was determined by GEOID93.

QL0662

QL0662.The ellipsoidal height was determined by GPS observations

QL0662.and referenced to NAD 83.

QL0662

QL0662.The X, Y, and Z were computed from the position and the ellipsoidal ht.

QL0662

QL0662;		North	East	Scale	
Converg.		487,632.142'	2,674,533.367'		
QL0662;SPC WI C	-	148,630.574m	821,295.413m	0.99995100	+1 59
07.9 MT					
QL0662;UTM 16	-	4,998,118.680	485,377.763	0.99960263	-0 07
54.5 MT					

QL0662

QL0662	Pid	Reference Object	Distance	Geod.
AZ				
QL0662				
ddmmss.s				
QL0662	QL0665	EPHRAIM GPS AZ MK	386.367 METERS	15307

QL0662

QL0662

QL0662_STATION MARK IS A HORIZONTAL CONTROL DISK
 QL0662_WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
 QL0662_THE MARK IS STAMPED: EPHRAIM GPS 1989
 QL0662_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 QL0662+STABILITY: SURFACE MOTION
 QL0662_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 QL0662+SATELLITE: SATELLITE OBSERVATIONS - August 22, 1990

QL0662

QL0662	HISTORY	- Year Condition	Recov. By
QL0662	HISTORY	- 1989 STATION MONUMENTED	WI DEPT OF TRANSP
QL0662	HISTORY	- 1990 GOOD	NATIONAL GEODETIC

SURVEY

QL0662

STATION DESCRIPTION

QL0662

QL0662'DESCRIBED BY WI DEPT OF TRANSP 1989
 QL0662'THE STATION IS LOCATED ABOUT 2.43 KM (1.50 MI) SOUTHWEST OF EPHRAIM,
 QL0662'4.86 KM (3.00 MI) NORTHEAST OF FISH CREEK, 14.58 KM (9.05 MI)
 QL0662'NORTHEAST OF EGG HARBOR. OWNERSHIP--EPHRAIM-FISH CREEK AIRPORT.
 QL0662'THE STAION IS LOCATED AT THE EPHRAIM-FISH CREEK AIRPORT. TO REACH
 QL0662'FROM THE INTERSECTION OF STATE HIGHWAY 42 NORTH AND COUNTY ROAD A, GO

QL0662'NORTH FOR 0.32 KM (0.20 MI) ON STATE HIGHWAY 42 TO MAPLE GROVE ROAD.

QL0662'TURN RIGHT AND GO EAST FOR 0.64 KM (0.40 MI) ON MAPLE GROVE ROAD TO

QL0662'THE AIRPORT ENTRANCE AND THE STATION.

QL0662'STATION IS A STANDARD NGS HORIZONTAL CONTROL DISK STAMPED-- EPHRAIM GPS

QL0662'1989--, SET INTO THE TOP OF A 40 CM DIAMETER CONCRETE MONUMENT SET

QL0662'FLUSH WITH THE GROUND. LOCATED 39.62 M (130.0 FT) SOUTHEAST FROM THE

QL0662'EDGE OF THE TAXIWAY, 19.81 M (65.0 FT) SOUTHWEST FROM THE EDGE OF THE

QL0662'TARMAC, 13.41 M (44.0 FT) WEST FROM THE CENTER OF THE TETRAHEDRON.

QL0662

QL0662

STATION RECOVERY (1990)

QL0662

QL0662'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990

QL0662'THE STATION IS LOCATED ABOUT 14.6 KM (9.1 MI) NORTHEAST OF EGG HARBOR,

QL0662'4.9 KM (3.0 MI) NORTHEAST OF FISH CREEK, 2.4 KM (1.5 MI) SOUTHWEST OF

QL0662'EPHRAIM AND AT THE EPHRAIM-FISH CREEK AIRPORT. OWNERSHIP-VILLAGE OF

QL0662'EPHRAIM AND TOWNSHIP OF GIBRALTAR, P.O BOX 147, EPHRAIM, WI 54211.

QL0662'THE AIRPORT MANAGER IS JERRY COX, P.O.BOX 147, EPHRAIM, WI 54211,

QL0662'PHONE 414-854-2332.

QL0662'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 42 AND COUNTY

QL0662'ROAD A, ABOUT 2.7 KM (1.7 MI) SOUTH OF EPHRAIM, GO NORTH ON STATE

QL0662'HIGHWAY 42 FOR 0.32 KM (0.20 MI) TO A PAVED ROAD ON THE RIGHT. TURN

QL0662'RIGHT AND GO SOUTHEAST ON MAPLE GROVE ROAD FOR 0.64 KM (0.40 MI) TO A

QL0662'PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO SOUTHWEST ON THE AIRPORT

QL0662'ENTRANCE ROAD FOR 0.1 KM (0.1 MI) TO AN AIRPLANE PARKING APRON. TURN

QL0662'LEFT AND GO SOUTH ACROSS THE APRON FOR 0.1 KM (0.1 MI) TO THE

QL0662'TETRAHYDRON AND THE STATION ON THE RIGHT BETWEEN TWO OF THE POST QL0662'SURROUNDING THE TETRAHYDRON.

QL0662'THE STATION IS LOCATED 39.7 M (130.2 FT) SOUTHEAST FROM THE SOUTHEAST

QL0662'EDGE OF A TAXIWAY AND 19.8 M (65.0 FT) SOUTHWEST FROM THE SOUTHWEST

QL0662'EDGE OF THE AIRPLANE PARKING APRON. THE STATION IS FLUSH WITH THE

QL0662'GROUND AND ALSO THIS AIRPORT IS ATTENDED ONLY PART TIME.

1 National Geodetic Survey, Retrieval Date = OCTOBER 15, 1995

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QL0665
*****
QL0665 DESIGNATION - EPHRAIM GPS AZ MK
QL0665 PID - QL0665
QL0665 STATE/COUNTY- WI/DOOR
QL0665 USGS QUAD - EPHRAIM (1983)
QL0665
QL0665 HORZ DATUM - NAD 83 (1991)
QL0665 VERT DATUM - NAVD 88
QL0665
QL0665 POSITION - 45 07 59.84300(N) 087 11 01.48742(W)
ADJUSTED
QL0665 91 minus 83 - +00.00097 +00.00498
NADCON
QL0665 83 minus 27 - -00.03561 +00.39368
NADCON
QL0665
QL0665
QL0665 HEIGHT - 228.9 (meters) 751. (feet)
V_GPS OBS
QL0665 88 minus 29 - -0.0 (+/- 2 cm)
VERTCON
QL0665. (NOTE - For assistance in applying shifts see file readme.dat)
QL0665
*****
QL0665
QL0665 LAPLACE CORR- -0.66
DEFLEC93
QL0665 GEOID HEIGHT- -36.62
GEOID93
QL0665 ELLIP HEIGHT- 191.957
QL0665 X - 221,454.693
QL0665 Y - -4,501,796.157
QL0665 Z - 4,497,946.565
QL0665
QL0665
QL0665 HORZ ORDER - FIRST
QL0665 ELLP ORDER - FOURTH CLASS 1
QL0665
QL0665
QL0665.The horizontal coordinates were established by GPS observations
QL0665.and adjusted by the National Geodetic Survey in August 1991.
QL0665
QL0665.The NGVD 29 orthometric height was determined by GPS
observations.
QL0665.The NAVD 88 height was computed by applying the VERTCON shift
value to
QL0665.the NGVD 29 height.
QL0665
QL0665.The Laplace correction was computed from DEFLEC93 derived
deflections.
QL0665
QL0665.The geoid height was determined by GEOID93.
QL0665

```

3937 Feet
1200 meters

l' = .3048006096012 m
1m = 3,28083'

QL0665.The ellipsoidal height was determined by GPS observations
QL0665.and referenced to NAD 83.

QL0665

QL0665.The X, Y, and Z were computed from the position and the
ellipsoidal ht.

QL0665

Converg.	North	East	Scale	
QL0665;SPC WI C	486,522.209'	2,695,145.266'	0.99995076	+1 59
13.5 MT	148,292.226m	821,481.920m		
QL0665;UTM 16	4,997,773.793	485,551.581	0.99960257	-0 07
48.8 MT				

QL0665

QL0665	Pid	Reference Object	Distance	Geod.
QL0665				
QL0665				
QL0665	QL0662	EPHRAIM GPS	386.367 METERS	33307

QL0665

QL0665_STATION MARK IS AN AZIMUTH MARK DISK
 QL0665_WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
 QL0665_THE MARK IS STAMPED: EPHRAIM GPS 1989
 QL0665_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 QL0665+STABILITY: SURFACE MOTION
 QL0665_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 QL0665+SATELLITE: SATELLITE OBSERVATIONS - August 22, 1990

QL0665

QL0665	HISTORY	- Year Condition	Recov. By
QL0665	HISTORY	- 1989 STATION MONUMENTED	NATIONAL GEODETIC SURVEY
QL0665	HISTORY	- 1990 GOOD	NATIONAL GEODETIC SURVEY

QL0665

STATION DESCRIPTION

QL0665'DESCRIBED BY NATIONAL GEODETIC SURVEY 1990
 QL0665'THE STATION IS LOCATED ABOUT 14.6 KM (9.1 MI) NORTHEAST OF EGG HARBOR,
 QL0665'4.9 KM (3.0 MI) NORTHEAST OF FISH CREEK. 2.4 KM (1.5 MI) SOUTHWEST OF
 QL0665'EPHRAIM AND AT THE EPHRAIM-FISH CREEK AIRPORT. OWNERSHIP-VILLAGE OF
 QL0665'EPHRAIM AND TOWNSHIP OF GIBRALTAR, P.O BOX 147, EPHRAIM, WI 54211.
 QL0665'THE AIRPORT MANAGER IS JERRY COX, P.O.BOX 147, EPHRAIM, WI 54211,
 QL0665'PHONE 414-854-2332.
 QL0665'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 42 AND COUNTY

QL0665'ROAD A, ABOUT 2.7 KM (1.7 MI) SOUTH OF EPHRAIM, GO NORTH ON
 STATE
 QL0665'HIGHWAY 42 FOR 0.32 KM (0.20 MI) TO A PAVED ROAD ON THE RIGHT.
 TURN
 QL0665'RIGHT AND GO SOUTHEAST ON MAPLE GROVE ROAD FOR 0.64 KM (0.40 MI)
 TO A
 QL0665'PAVED ROAD ON THE RIGHT. TURN RIGHT AND GO SOUTHWEST ON THE
 AIRPORT
 QL0665'ENTRANCE ROAD FOR 0.1 KM (0.1 MI) TO A AIRPLANE PARKING APRON.
 TURN
 QL0665'LEFT AND CONTINUE SOUTHWEST ACROSS THE APRON AND ALONG A TAXIWAY
 FOR
 QL0665'0.1 KM (0.1 MI) TO THE RUNWAY. TURN LEFT AND GO SOUTHEAST ON
 THE
 QL0665'RUNWAY FOR 0.25 KM (0.16 MI) TO THE END OF THE RUNWAY AND THE
 STATION
 QL0665'ON THE RIGHT AT THE NORTHEAST EDGE OF A FIELD.
 QL0665'THE STATION IS LOCATED 38.4 M (126.0 FT) SOUTHWEST FROM THE
 CENTERLINE
 QL0665'OF THE RUNWAY, 3.1 M (10.2 FT) NORTHEAST FROM A CARSONITE
 WITNESS
 QL0665'POST AND IS FLUSH WITH THE GROUND. NOTE--THIS AIRPORT IS
 ATTENDED
 QL0665'PART TIME.

1 National Geodetic Survey, Retrieval Date = OCTOBER 15, 1995
 PM0068

PM0068 DESIGNATION - F 21
 PM0068 PID - PM0068
 PM0068 STATE/COUNTY- WI/DOOR
 PM0068 USGS QUAD - INSTITUTE (1981)
 PM0068
 PM0068 HORZ DATUM - NAD 83 (1991)
 PM0068 VERT DATUM - NAVD 88
 PM0068
 PM0068 POSITION - 44 58 49.36666(N) 087 19 45.92970(W)
 ADJUSTED
 PM0068 91 minus 83 - +00.00313 +00.00696
 NADCON
 PM0068 83 minus 27 - -00.02284 +00.37186
 NADCON
 PM0068
 PM0068
 PM0068 HEIGHT - 235.638 (meters) 773.09 (feet)
 ADJUSTED
 PM0068 88 minus 29 - -0.029 ADJ
 UNCH
 PM0068 DY minus 88 - -0.020
 COMPUTED
 PM0068. (NOTE - For assistance in applying shifts see file readme.dat)
 PM0068

PM0068

PM0068 LAPLACE CORR- -0.24
 DEFLEC93
 PM0068 GEOID HEIGHT- -36.38
 GEOID93
 PM0068 ELLIP HEIGHT- 198.793
 PM0068 X - 210,568.536
 PM0068 Y - -4,514,364.814
 PM0068 Z - 4,485,946.858
 PM0068 MODELED GRAV- 980,524.3

NAVD88
 PM0068
 PM0068
 PM0068 HORZ ORDER - FIRST
 PM0068 VERT ORDER - FIRST CLASS 2
 PM0068 ELLP ORDER - FOURTH CLASS 1
 PM0068
 PM0068

PM0068.The horizontal coordinates were established by GPS observations
 PM0068.and adjusted by the National Geodetic Survey in August 1991.

PM0068
 PM0068.The orthometric height was determined by differential leveling
 PM0068.and adjusted by the National Geodetic Survey in June 1991.

PM0068
 PM0068.The dynamic height is computed by dividing the NAVD 88
 PM0068.geopotential number by the normal gravity value computed on the
 PM0068.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 PM0068.degrees latitude (G = 980.6199 gals.).

PM0068
 PM0068.The Laplace correction was computed from DEFLEC93 derived
 deflections.

PM0068
 PM0068.The geoid height was determined by GEOID93.

PM0068
 PM0068.The ellipsoidal height was determined by GPS observations
 PM0068.and referenced to NAD 83.

PM0068
 PM0068.The X, Y, and Z were computed from the position and the
 ellipsoidal ht.

PM0068
 PM0068.The modeled gravity was interpolated from observed gravity
 values.

PM0068

PM0068;		North	East	Scale	
Converg.		429,533.035'	2,659,404.579'		
PM0068;SPC WI C	-	130,921.931m	810,588.137m	0.99994235	+1 53
03.5 MT					
PM0068;UTM 16	-	4,980,823.608	474,027.418	0.99960829	-0 13
58.3 MT					

PM0068
 PM0068_STATION MARK IS A BENCH MARK DISK
 PM0068_WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
 PM0068_THE MARK IS STAMPED: F 21 1934
 PM0068_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 PM0068+STABILITY: SURFACE MOTION

PM0068_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
PM0068+SATELLITE: SATELLITE OBSERVATIONS - August 17, 1990

PM0068
PM0068 HISTORY - Year Condition Recov. By
PM0068 HISTORY - 1934 STATION MONUMENTED COAST AND GEODETIC
SURVEY
PM0068 HISTORY - 1934 GOOD NATIONAL GEODETIC
SURVEY
PM0068 HISTORY - 1987 GOOD US POWER SQUADRON
PM0068 HISTORY - 1990 GOOD NATIONAL GEODETIC
SURVEY

PM0068

PM0068

STATION DESCRIPTION

PM0068

PM0068'DESCRIBED BY NATIONAL GEODETIC SURVEY 1934
PM0068'10.7 MI N FROM STURGEON BAY.
PM0068'10.7 MILES NORTH. 42 FT. EAST OF HIGHWAY 42, 35 FT. SOUTH OF
PM0068'COUNTY ROAD. IN FIELD CORNER, 2 FT WEST OF FENCE LINE. 115 FT.
PM0068'SOUTH OF A BROWN HOUSE OWNED BY FRED MARTEN.

PM0068

PM0068

STATION RECOVERY (1987)

PM0068

PM0068'RECOVERY NOTE BY US POWER SQUADRON 1987 (AB)
PM0068'RECOVERED IN GOOD CONDITION.

PM0068

PM0068

STATION RECOVERY (1990)

PM0068

PM0068'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990
PM0068'THE STATION IS LOCATED ABOUT 16.0 KM (9.9 MI) NORTH OF STURGEON
BAY,

PM0068'3.4 KM (2.1 MI) NORTH OF CARLSVILLE AND IN THE SOUTHEAST ANGLE
OF

PM0068'STATE HIGHWAY 42 AND SUNNY SLOPE ROAD. OWNERSHIP-WISCONSIN
PM0068'DEPARTMENT OF TRANSPORTATION, P.O BOX 7916, MADISON, WI 53707,
PHONE

PM0068'608-267-2462.

PM0068'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 42 AND
COUNTY

PM0068'ROAD I IN CARLSVILLE, GO NORTH ON STATE HIGHWAY 42 FOR 3.4 KM
PM0068'(2.1 MI) TO THE STATION ON THE RIGHT.

PM0068'THE STATION IS LOCATED 13.3 M (43.6 FT) EAST FROM THE CENTERLINE
OF

PM0068'STATE HIGHWAY 42, 8.5 M (27.9 FT) SOUTH FROM THE CENTER OF SUNNY

PM0068'SLOPE ROAD, 2.5 M (8.2 FT) NORTHEAST FROM A UTILITY POLE, 0.3 M

PM0068'(1.0 FT) WEST OF A CARSONITE WITNESS POST AND PROJECTS 10 CM

ABOVE

PM0068'THE GROUND.

1 National Geodetic Survey, Retrieval Date = OCTOBER 15, 1995

QL0668

QL0668 DESIGNATION - FAA WI47 A

QL0668 PID - QL0668

QL0668 STATE/COUNTY- WI/DOOR

QL0668 USGS QUAD - WASHINGTON ISLAND NW (1982)

QL0668
 QL0668 HORZ DATUM - NAD 83 (1991)
 QL0668 VERT DATUM - NAVD 88
 QL0668
 QL0668 POSITION - 45 23 04.55938(N) 086 55 26.35360(W)
 ADJUSTED
 QL0668 91 minus 83 - -00.00005 +00.00204
 NADCON
 QL0668 83 minus 27 - -00.06446 +00.42936
 NADCON
 QL0668
 QL0668
 QL0668 HEIGHT - 196.5 (meters) 645. (feet)
 V_GPS OBS
 QL0668 88 minus 29 - -0.0 (+/- 2 cm)
 VERTCON
 QL0668. (NOTE - For assistance in applying shifts see file readme.dat)
 QL0668

 QL0668
 QL0668 LAPLACE CORR- -0.76
 DEFLEC93
 QL0668 GEOID HEIGHT- -36.54
 GEOID93
 QL0668 ELLIP HEIGHT- 159.683
 QL0668 X - 240,796.153
 QL0668 Y - -4,480,912.850
 QL0668 Z - 4,517,584.069
 QL0668
 QL0668
 QL0668 HORZ ORDER - FIRST
 QL0668 ELLP ORDER - FOURTH CLASS 1
 QL0668
 QL0668
 QL0668.The horizontal coordinates were established by GPS observations
 QL0668.and adjusted by the National Geodetic Survey in August 1991.
 QL0668
 QL0668.The NGVD 29 orthometric height was determined by GPS
 observations.
 QL0668.The NAVD 88 height was computed by applying the VERTCON shift
 value to
 QL0668.the NGVD 29 height.
 QL0668
 QL0668.The Laplace correction was computed from DEFLEC93 derived
 deflections.
 QL0668
 QL0668.The geoid height was determined by GEOID93.
 QL0668
 QL0668.The ellipsoidal height was determined by GPS observations
 QL0668.and referenced to NAD 83.
 QL0668
 QL0668
 QL0668.The X, Y, and Z were computed from the position and the
 ellipsoidal ht.
 QL0668

QL0668'ROAD FOR 0.3 KM (0.2 MI) TO THE STATION ON THE RIGHT IN THE
 CENTER OF
 QL0668'A 1X1 FOOT EXPOSED AREA OF BEDROCK AND JUST BEFORE REACHING TWO
 QL0668'HANGARS.
 QL0668'THE STATION IS LOCATED 54.2 M (177.8 FT) NORTH-NORTHEAST FROM
 THE
 QL0668'NORTHEAST CORNER OF A HANGAR, 25.7 M (84.3 FT) NORTHWEST FROM
 THE
 QL0668'NORTHWEST CORNER OF A HANGAR AND 5.8 M (19.0 FT) WEST FROM THE
 CENTER
 QL0668'OF A GRAVELED ROAD AND PROJECTS 3CM ABOVE THE GROUND. NOTE--
 THIS
 QL0668'AIRPORT IS UNATTENDED.

1 National Geodetic Survey, Retrieval Date = OCTOBER 15, 1995

QL0669

QL0669 DESIGNATION - FAA WI47 B
 QL0669 PID - QL0669
 QL0669 STATE/COUNTY- WI/DOOR
 QL0669 USGS QUAD - WASHINGTON ISLAND NW (1982)
 QL0669
 QL0669 HORZ DATUM - NAD 83 (1991)
 QL0669 VERT DATUM - NAVD 88
 QL0669
 QL0669 POSITION - 45 23 13.00688 (N) 086 55 25.04872 (W)
 ADJUSTED
 QL0669 91 minus 83 - -00.00005 +00.00201
 NADCON
 QL0669 83 minus 27 - -00.06491 +00.42966
 NADCON
 QL0669
 QL0669
 QL0669 HEIGHT - 193.5 (meters) 635. (feet)
 V_GPS OBS
 QL0669 88 minus 29 - -0.1 (+/- 2 cm)
 VERTCON
 QL0669. (NOTE - For assistance in applying shifts see file readme.dat)
 QL0669

QL0669
 QL0669 LAPLACE CORR- -0.76
 DEFLEC93
 QL0669 GEOID HEIGHT- -36.54
 GEOID93
 QL0669 ELLIP HEIGHT- 156.730
 QL0669 X - 240,814.426
 QL0669 Y - -4,480,723.873
 QL0669 Z - 4,517,765.133
 QL0669
 QL0669
 QL0669 HORZ ORDER - FIRST
 QL0669 ELLP ORDER - FOURTH CLASS 1
 QL0669
 QL0669

QL0669.The horizontal coordinates were established by GPS observations
QL0669.and adjusted by the National Geodetic Survey in August 1991.

QL0669

QL0669.The NGVD 29 orthometric height was determined by GPS
observations.

QL0669.The NAVD 88 height was computed by applying the VERTCON shift
value to

QL0669.the NGVD 29 height.

QL0669

QL0669.The Laplace correction was computed from DEFLEC93 derived
deflections.

QL0669

QL0669.The geoid height was determined by GEOID93.

QL0669

QL0669.The ellipsoidal height was determined by GPS observations

QL0669.and referenced to NAD 83.

QL0669

QL0669.The X, Y, and Z were computed from the position and the
ellipsoidal ht.

QL0669

QL0669;		North	East	Scale	
Converg.		581,376.167'	2,758,727.826'		
QL0669;SPC WI C	-	177,203.810m	840,861.923m	0.99998043	+2 10
14.2 MT					
QL0669;UTM 16	-	5,025,939.535	505,978.892	0.99960044	+0 03
15.7 MT					

QL0669

QL0669	Pid	Reference Object	Distance	Geod.
QL0669				
QL0669				
QL0669	QL0668	FAA WI47 A	262.332 METERS	18613

QL0669

QL0669

QL0669_STATION MARK IS AN AZIMUTH MARK DISK

QL0669_WITH SETTING: SET IN ROCK OUTCROP

QL0669_THE MARK IS STAMPED: FAA WI47 B 1990

QL0669_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

QL0669+STABILITY: POSITION/ELEVATION WELL

QL0669_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

QL0669+SATELLITE: SATELLITE OBSERVATIONS - 1990

QL0669

QL0669	HISTORY	- Year Condition	Recov. By
QL0669	HISTORY	- 1990 STATION MONUMENTED	NATIONAL GEODETIC

SURVEY

QL0669

QL0669

STATION DESCRIPTION

QL0669

QL0669'DESCRIBED BY NATIONAL GEODETIC SURVEY 1990

QL0669'THE STATION IS LOCATED ABOUT 21.7 KM (13.5 MI) NORTHEAST OF
 GILLIS
 QL0669'ROCK, 3.7 KM (2.3 MI) NORTHWEST OF WASHINGTON ISLAND AND AT THE
 QL0669'WASHINGTON ISLAND AIRPORT. OWNERSHIP--CITY OF WASHINGTON
 ISLAND,
 QL0669'TOWN HALL, WASHINGTON ISLAND, WI 54246, PHONE 414-847-2522. THE
 QL0669'AIRPORT MANAGER IS JACK N. CORNELL, WASHINGTON ISLAND, WI 54246,
 QL0669'PHONE 414-847-2425.
 QL0669'TO REACH THE STATION FROM THE WASHINGTON ISLAND FERRY DOCK ON
 QL0669'WASHINGTON ISLAND, GO WEST, NORTH AND EAST ON LOBDELL ROAD FOR
 3.0 KM
 QL0669'(1.9 MI) TO A CROSSROAD. CONTINUE EAST ON DETROIT HARBOR ROAD
 FOR
 QL0669'0.8 KM (0.5 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO
 NORTH
 QL0669'ON AIRPORT ROAD FOR 2.4 KM (1.5 MI) TO A CROSSROAD. CONTINUE
 NORTH
 QL0669'ON AIRPORT ROAD FOR 0.7 KM (0.4 MI) TO A PAVED AND GRAVELED ROAD
 ON
 QL0669'THE LEFT. TURN LEFT AND GO WEST ON THE AIRPORT ENTRANCE ROAD
 FOR 0.2
 QL0669'KM (0.1 MI) TO A HANGAR AND THE AIRPORT OFFICE ON THE LEFT.
 TURN
 QL0669'RIGHT AND GO NORTH ACROSS A FIELD AND TURF RUNWAY FOR 0.25 KM
 QL0669'(0.16 MI) TO THE WINDSOCK AND THE STATION IN THE SOUTHWEST
 CORNER OF
 QL0669'THE CONCRETE BASE OF THE WINDSOCK. THE CONCRETE BASE IS
 ANCHORED TO
 QL0669'BEDROCK.
 QL0669'THE STATION IS LOCATED 1.2 M (3.9 FT) SOUTHWEST FROM THE
 WINDSOCK
 QL0669'POLE, 0.2 M (0.7 FT) NORTHEAST FROM THE SOUTHWEST EDGE OF THE
 QL0669'CONCRETE BASE AND 0.2 M (0.7 FT) NORTHWEST FROM THE SOUTHEAST
 EDGE OF
 QL0669'THE CONCRETE BASE AND FLUSH WITH THE GROUND. NOTE--THIS AIRPORT
 IS
 QL0669'UNATTENDED.

1 National Geodetic Survey, Retrieval Date = OCTOBER 15, 1995
 PM0591

PM0591	DESIGNATION	-	STURGEON BAY GPS	
PM0591	PID	-	PM0591	
PM0591	STATE/COUNTY-		WI/DOOR	
PM0591	USGS QUAD	-	STURGEON BAY WEST (1981)	
PM0591				
PM0591	HORZ DATUM	-	NAD 83 (1991)	
PM0591	VERT DATUM	-	NAVD 88	
PM0591				
PM0591	POSITION	-	44 50 10.53187(N)	087 25 34.87090(W)

ADJUSTED

PM0591	91 minus 83	-	+00.00515	+00.00936
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NADCON

PM0591	83 minus 27	-	-00.01270	+00.35150
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NADCON

PM0591
 PM0591
 PM0591 HEIGHT - 219.9 (meters) 721. (feet)
 V_GPS OBS
 PM0591 88 minus 29 - +0.0 (+/- 2 cm)
 VERTCON
 PM0591. (NOTE - For assistance in applying shifts see file readme.dat)
 PM0591

PM0591
 PM0591 LAPLACE CORR- -1.60
 DEFLEC93
 PM0591 GEOID HEIGHT- -36.13
 GEOID93
 PM0591 ELLIP HEIGHT- 183.407
 PM0591 X - 203,438.470
 PM0591 Y - -4,525,999.606
 PM0591 Z - 4,474,592.431
 PM0591
 PM0591
 PM0591 HORZ ORDER - B
 PM0591 ELLP ORDER - FOURTH CLASS 1
 PM0591
 PM0591

PM0591.The horizontal coordinates were established by GPS observations
 PM0591.and adjusted by the National Geodetic Survey in June 1991.
 PM0591

PM0591.The NGVD 29 orthometric height was determined by GPS
 observations.

PM0591.The NAVD 88 height was computed by applying the VERTCON shift
 value to

PM0591.the NGVD 29 height.

PM0591

PM0591.The Laplace correction was computed from DEFLEC93 derived
 deflections.

PM0591

PM0591.The geoid height was determined by GEOID93.

PM0591

PM0591.The ellipsoidal height was determined by GPS observations
 PM0591.and referenced to NAD 83.

PM0591

PM0591.The X, Y, and Z were computed from the position and the
 ellipsoidal ht.

PM0591

	North	East	Scale	
Converg.	376,206.505'	2,636,001.861'		
PM0591;SPC WI C	- 114,667.972 _m	803,454.974 _m	0.99994095	+1 48
57.3 MT				
PM0591;UTM 16	- 4,964,849.500	466,301.286	0.99961396	-0 18
02.2 MT				

PM0591

PM0591:	Primary Azimuth Mark	Grid Az
PM0591:SPC WI C	- STURGEON BAY GPS AZ MK	020 19

16.4

PM0591:UTM 16 - STURGEON BAY GPS AZ MK 022 26
15.9

PM0591
PM0591 |-----|
-----|
PM0591 | Pid Reference Object Distance Geod.
AZ |
PM0591 |
dddmms.s |
PM0591 | PM0595 STURGEON BAY GPS AZ MK 405.299 METERS
0220813.7 |
PM0591 |-----|

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PM0591
PM0591_STATION MARK IS A HORIZONTAL CONTROL DISK
PM0591_WITH SETTING: SET IN TOP OF CONCRETE MONUMENT (ROUND)
PM0591_THE MARK IS STAMPED: STURGEON BAY GPS 1989
PM0591_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
PM0591+STABILITY: SURFACE MOTION
PM0591_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
PM0591+SATELLITE: SATELLITE OBSERVATIONS - August 17, 1990
PM0591
PM0591 HISTORY - Year Condition Recov. By
PM0591 HISTORY - 1989 STATION MONUMENTED WI DEPT OF TRANSP
PM0591 HISTORY - 1990 GOOD NATIONAL GEODETIC

SURVEY

PM0591
PM0591 STATION DESCRIPTION
PM0591

PM0591'DESCRIBED BY WI DEPT OF TRANSP-1989
PM0591'THE STATION IS LOCATED ABOUT 5.49 KM (3.40 MI) SOUTHWEST OF
STURGEON
PM0591'BAY, 28.74 KM (17.85 MI) NORTH OF BRUSSELS, 11.62 KM (7.20 MI)
SOUTH
PM0591'OF CARLSVILLE. OWNERSHIP--DOOR COUNTY CHERRYLAND AIRPORT
PROPERTY.
PM0591'AIRPORT MANAGER, GEORGE MCQUEEN PH.414-743-3636.
PM0591'THE STATION IS LOCATED AT THE DOOR COUNTY CHERRYLAND AIRPORT. TO
REACH
PM0591'FROM THE INTERSECTION OF STATE HIGHWAY 57 AND PARK DRIVE IN
STURGEON
PM0591'BAY, GO WEST FOR 2.90 KM (1.80 MI) ON PARK DRIVE TO THE AIRPORT
PM0591'ENTRANCE. TURN RIGHT AND ENTER INTO THE AIRPORT PARKING AREA
PASSING
PM0591'THROUGH GATE LEADING TO THE HANGERS TO THE STATION.
PM0591'THE STATION IS A STANDARD NGS HORIZONTAL CONTROL DISK
PM0591'STAMPED--STURGEON BAY GPS 1989--, SET INTO THE TOP OF A 40 CM
DIAMETER
PM0591'CONCRETE MONUMENT SET FLUSH WITH THE GROUND. LOCATED 51.8 M
PM0591'(169.9 FT) NORTH FROM A EAST-WEST CYCLONE FENCE, 30.4 M (99.7
FT)
PM0591'WEST FROM A LINE OF LIMESTONE ROCK BLOCKS RUNNING NORTH-SOUTH,
61.3 M

PM0591' (201.1 FT) SOUTHEAST FROM THE SOUTHEAST CORNER OF THE FAA
 CHAPTER 630
 PM0591' BUILDING, 30.4 M (99.7 FT) SOUTH FROM THE SOUTH EDGE OF THE
 BLACK TOP
 PM0591' ASPHALT.
 PM0591
 PM0591 STATION RECOVERY (1990)
 PM0591
 PM0591' RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990
 PM0591' THE STATION IS LOCATED ABOUT 3.3 KM (2.1 MI) NORTHWEST OF
 STURGEON BAY
 PM0591' AND AT THE DOOR COUNTY CHERRYLAND AIRPORT. OWNERSHIP--DOOR
 COUNTY,
 PM0591' DOOR COUNTY AIRPORT, 3418 PARK DRIVE, STURGEON BAY, WI 54235,
 PHONE
 PM0591' IS 414-743-3636, THE AIRPORT MANAGER IS GEORGE MCQUEEN PHONE,
 PM0591' 414-743-3636.
 PM0591' TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAYS 42 AND
 57 AND
 PM0591' COUNTY ROADS C AND S IN SOUTHEAST STURGEON, GO NORTH ON COUNTY
 ROAD C
 PM0591' FOR 1.6 KM (1.0 MI) TO A CROSSROAD. TURN LEFT AND GO WEST ON
 COUNTY
 PM0591' ROAD C FOR 2.4 KM (1.5 MI) TO A CROSSROAD. TURN RIGHT AND GO
 NORTH
 PM0591' ON PARK DRIVE FOR 0.7 KM (0.4 MI) TO A PAVED ROAD ON THE RIGHT.
 TURN
 PM0591' RIGHT AND GO EAST ON THE AIRPORT ENTRANCE ROAD FOR FOR 0.3 KM
 PM0591' (0.2 MI) TO A PAVED ROAD AND GATE ON THE RIGHT. TURN RIGHT AND
 GO
 PM0591' SOUTH ON THE PAVED ROAD, PASSING THROUGH THE GATE, FOR 0.3 KM
 PM0591' (0.2 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO EAST ON
 THE
 PM0591' PAVED ROAD AND ALONG A TAXIWAY, PASSING BETWEEN THE HANGARS, FOR
 0.1
 PM0591' KM (0.1 MI) TO A TAXIWAY. TURN RIGHT AND GO SOUTHWEST ON THE
 TAXIWAY
 PM0591' FOR 0.15 KM (0.09 MI) TO AN APRON, BEAR RIGHT AND CONTINUE
 SOUTHWEST
 PM0591' ACROSS THE APRON FOR 0.1 KM (0.1 MI) AND THE STATION STRAIGHT
 AHEAD.
 PM0591' THE STATION IS LOCATED 51.8 M (169.9 FT) NORTHEAST FROM A
 CHAINLINK
 PM0591' FENCE, 61.3 M (201.1 FT) SOUTHEAST FROM THE SOUTHEAST CORNER OF
 THE
 PM0591' EAA BUILDING, 30.5 M (100.1 FT) SOUTHWEST FROM THE SOUTHWEST
 EDGE OF
 PM0591' THE APRON, 30.5 M (100.1 FT) WEST FROM THE WEST EDGE OF A 3-FOOT
 PM0591' SQUARE LIME STONE BLOCK AND IS FLUSH WITH THE GROUND.

1 National Geodetic Survey, Retrieval Date = OCTOBER 15, 1995

PM0595

PM0595 DESIGNATION - STURGEON BAY GPS AZ MK
 PM0595 PID - PM0595

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PM0595 STATE/COUNTY- WI/DOOR
PM0595 USGS QUAD - STURGEON BAY WEST (1981)
PM0595
PM0595 HORZ DATUM - NAD 83 (1991)
PM0595 VERT DATUM - NAVD 88
PM0595
PM0595 POSITION - 44 50 22.69357(N) 087 25 27.91706(W)
ADJUSTED
PM0595 91 minus 83 - +00.00511 +00.00930
NADCON
PM0595 83 minus 27 - -00.01296 +00.35196
NADCON
PM0595
PM0595
PM0595 HEIGHT - 220.5 (meters) 723. (feet)
V_GPS OBS
PM0595 88 minus 29 - -0.1 (+/- 2 cm)
VERTCON
PM0595. (NOTE - For assistance in applying shifts see file readme.dat)
PM0595
*****
PM0595
PM0595 LAPLACE CORR- -1.63
DEFLEC93
PM0595 GEOID HEIGHT- -36.14
GEOID93
PM0595 ELLIP HEIGHT- 184.030
PM0595 X - 203,579.180
PM0595 Y - -4,525,728.736
PM0595 Z - 4,474,859.090
PM0595
PM0595
PM0595 HORZ ORDER - FIRST
PM0595 ELLP ORDER - FOURTH CLASS 1
PM0595
PM0595
PM0595.The horizontal coordinates were established by GPS observations
PM0595.and adjusted by the National Geodetic Survey in August 1991.
PM0595
PM0595.The NGVD 29 orthometric height was determined by GPS
observations.
PM0595.The NAVD 88 height was computed by applying the VERTCON shift
value to
PM0595.the NGVD 29 height.
PM0595
PM0595.The Laplace correction was computed from DEFLEC93 derived
deflections.
PM0595
PM0595.The geoid height was determined by GEOID93.
PM0595
PM0595.The ellipsoidal height was determined by GPS observations
PM0595.and referenced to NAD 83.
PM0595

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PM0595' COUNTY ROADS C AND S IN SOUTHEAST STURGEON BAY, GO NORTH ON COUNTY

PM0595' ROAD C FOR 1.6 KM (1.0 MI) TO A CROSSROAD. TURN LEFT AND GO WEST ON

PM0595' COUNTY ROAD C FOR 2.4 KM (1.5 MI) TO A CROSSROAD. TURN RIGHT AND GO

PM0595' NORTH ON PARK DRIVE FOR 0.7 KM (0.4 MI) TO A PAVED ROAD ON THE RIGHT.

PM0595' TURN RIGHT AND GO EAST ON THE AIRPORT ENTRANCE ROAD FOR FOR 0.3 KM

PM0595' (0.2 MI) TO A PAVED ROAD AND GATE ON THE RIGHT. TURN RIGHT AND GO

PM0595' SOUTH ON THE PAVED ROAD, PASSING THROUGH THE GATE, FOR 0.3 KM

PM0595' (0.2 MI) TO A PAVED ROAD ON THE LEFT. TURN LEFT AND GO EAST ON THE

PM0595' PAVED ROAD AND ALONG A TAXIWAY, PASSING BETWEEN THE HANGARS, FOR 0.1

PM0595' KM (0.1 MI) TO A TAXIWAY. TURN LEFT AND GO NORTHEAST ON THE TAXIWAY

PM0595' FOR 0.1 KM (0.1 MI) TO THE STATION ON THE RIGHT.

PM0595' THE STATION IS LOCATED 60.0 M (196.8 FT) SOUTHWEST FROM THE SOUTHWEST

PM0595' EDGE OF A TAXIWAY, 34.4 M (112.9 FT) SOUTHEAST FROM THE SOUTHEAST

PM0595' EDGE OF A TAXIWAY, 30.5 M (100.1 FT) NORTHWEST FROM THE NORTHWEST

PM0595' EDGE OF THE RUNWAY AND 25.9 M (85.0 FT) NORTH-NORTHWEST FROM THE WEST

PM0595' ONE OF TWO VASI LIGHTS AND IS FLUSH WITH THE GROUND.

STATION: 0017

HORIZONTAL CONTROL DATA



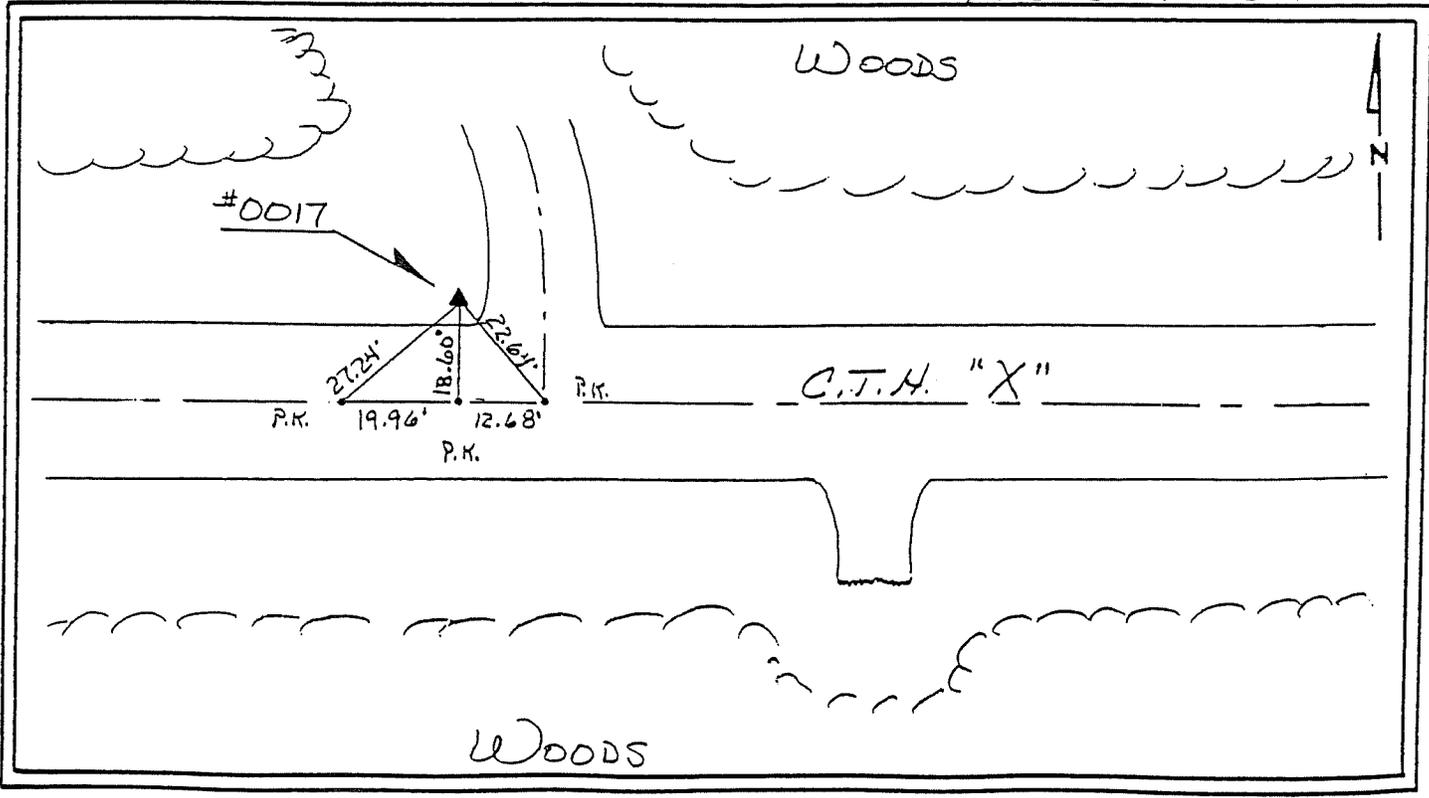
SET BY : Owen Ayres & Associates Inc.
2445 Darwin Road
Madison, WI 53704-3192, (608)249-0471

PROJECT : KEWAUNEE COUNTY WISCONSIN NO. 5256.00 STATION : 17
GPS FIRST ORDER TRAVERSE STATE : WISCONSIN
TYPE OF MARK : GPS GEODETIC MON. YEAR SET : 1993 COUNTY : KEWAUNEE
WISCONSIN 1983 SYSTEM OF PLANE COORDINATES WISCONSIN CENTRAL Zone
COMBINATION FACTOR : 0.99992698 QUADRANGLE : BRUSSELS
NORTHING : 316,785.895' EASTING : 2,613,631.617' THETA ANGLE : + 1° 44' 55"

To Station	North Azimuth	Bearing	Grid Distance
18	89° 26' 25"	N 89° 26' 25" E	1,829.34'

LOCALITY: NEAR THE NORTHWEST CORNER OF SECTION 6, T25N, R25E,
IN "MHNAPPEE" TOWNSHIP; ABOUT 6.0 AIR MILES NORTHWEST FROM
"ALGOMA";
ABOUT 0.5 MILE WEST FROM "ASH DRIVE";
THE STATION IS SET 0.1' LOWER THAN THE GROUND.

PANELED - PHOTO 7-02



STATION: 0018

HORIZONTAL CONTROL DATA



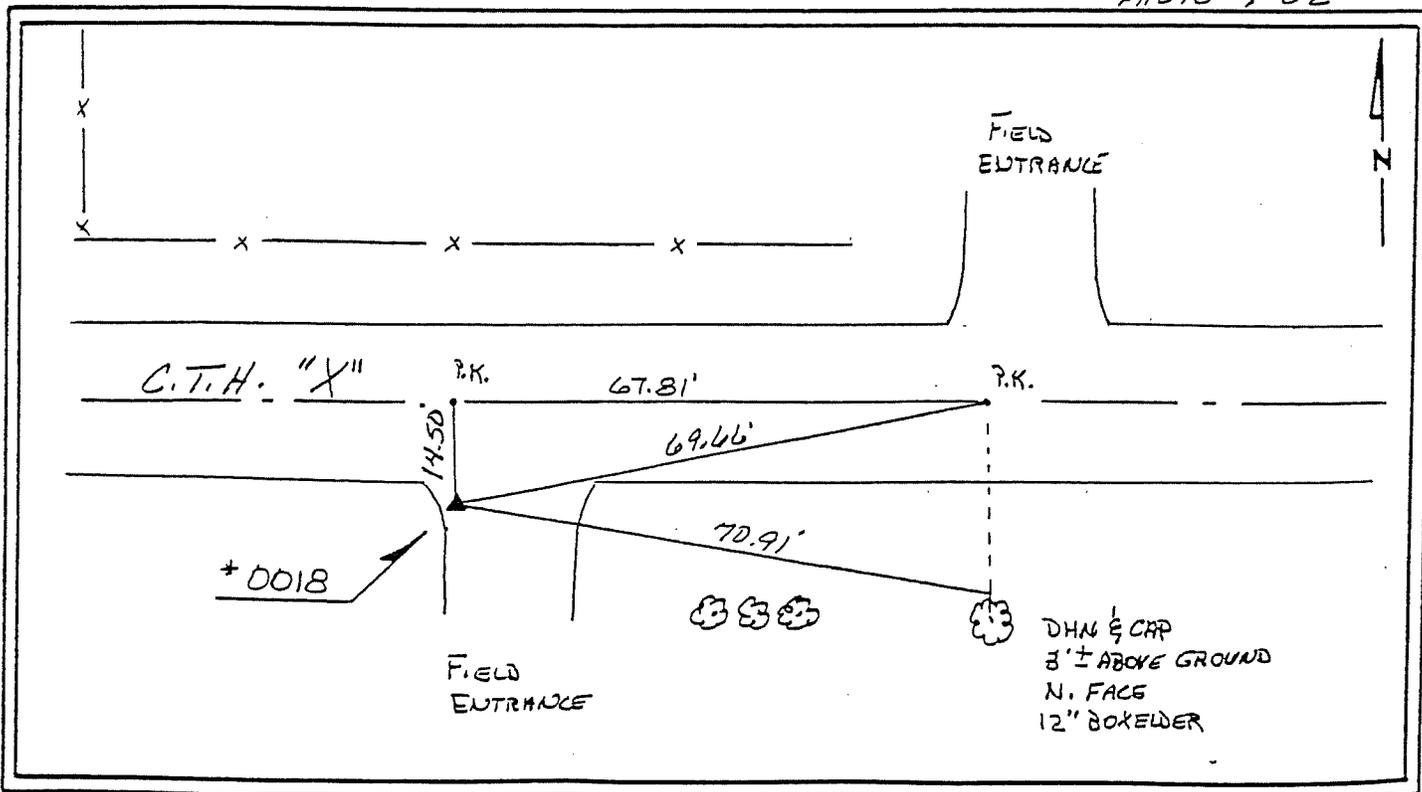
SET BY : Owen Ayres & Associates Inc.
 2445 Darwin Road
 Madison, WI 53704-3192, (608)249-0471

PROJECT : KEWAUNEE COUNTY WISCONSIN NO. 5256.00 STATION : 18
 GPS FIRST ORDER TRAVERSE STATE : WISCONSIN
 TYPE OF MARK : GPS GEODETIC MON. YEAR SET : 1993 COUNTY : KEWAUNEE
 WISCONSIN 1983 SYSTEM OF PLANE COORDINATES WISCONSIN CENTRAL Zone
 COMBINATION FACTOR : 0.99992698 QUADRANGLE : BRUSSELS
 NORTHING : 316,803.769' EASTING : 2,615,460.871' THETA ANGLE : + 1° 45' 14"

To Station	North Azimuth	Bearing	Grid Distance
17	269° 26' 25"	S 89° 26' 25" W	1,829.34'

LOCALITY: ABOUT 900' WEST FROM THE NORTH 1/4 CORNER OF SECTION 6,
T25N, R25E; IN "MHOXPEE" TOWNSHIP; ABOUT 3.5 AIR MILES
NORTHWEST FROM "ALGOMA";
ABOUT 900' WEST FROM "ASH DRIVE";
THE STATION IS SET 0.1' LOWER THAN THE GROUND.

PHOTO 7-02



STATION: 0019

HORIZONTAL CONTROL DATA



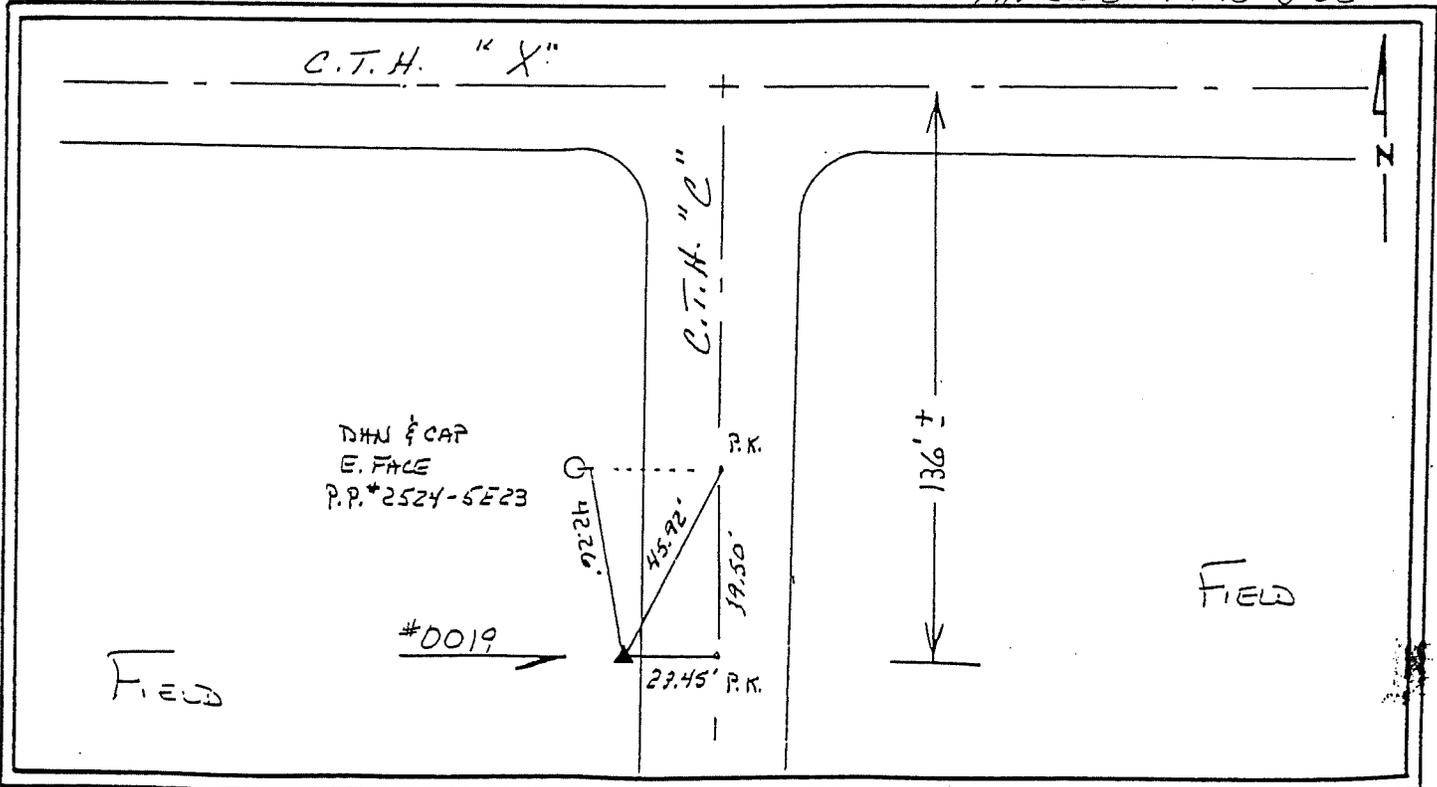
SET BY : Owen Ayres & Associates Inc.
2445 Darwin Road
Madison, WI 53704-3192, (608)249-0471

PROJECT : KEWAUNEE COUNTY WISCONSIN NO. 5256.00 STATION : 19
GPS FIRST ORDER TRAVERSE STATE : WISCONSIN
TYPE OF MARK : GPS GEODETIC MON. YEAR SET : 1993 COUNTY : KEWAUNEE
WISCONSIN 1983 SYSTEM OF PLANE COORDINATES WISCONSIN CENTRAL Zone
COMBINATION FACTOR : 0.99992698 QUADRANGLE : BRUSSELS
NORTHING : 316,099.588' EASTING : 2,592,175.137' THETA ANGLE : + 1° 41' 15"

To Station	North Azimuth	Bearing	Grid Distance
20	83° 36' 6"	N 83° 36' 6" E	1,447.70'

LOCALITY: NEAR THE NORTHWEST CORNER OF SECTION 4, T25N, R24E:
IN "LINCOLN" TOWNSHIP; ABOUT 9.1 AIR MILES NORTHWEST FROM
"ALGOMA";
THE STATION IS SET ON LOWER THAN THE GROUND.

PAVELED - PHOTO 5-02



STATION: 0020

HORIZONTAL CONTROL DATA

AYRES
ASSOCIATES

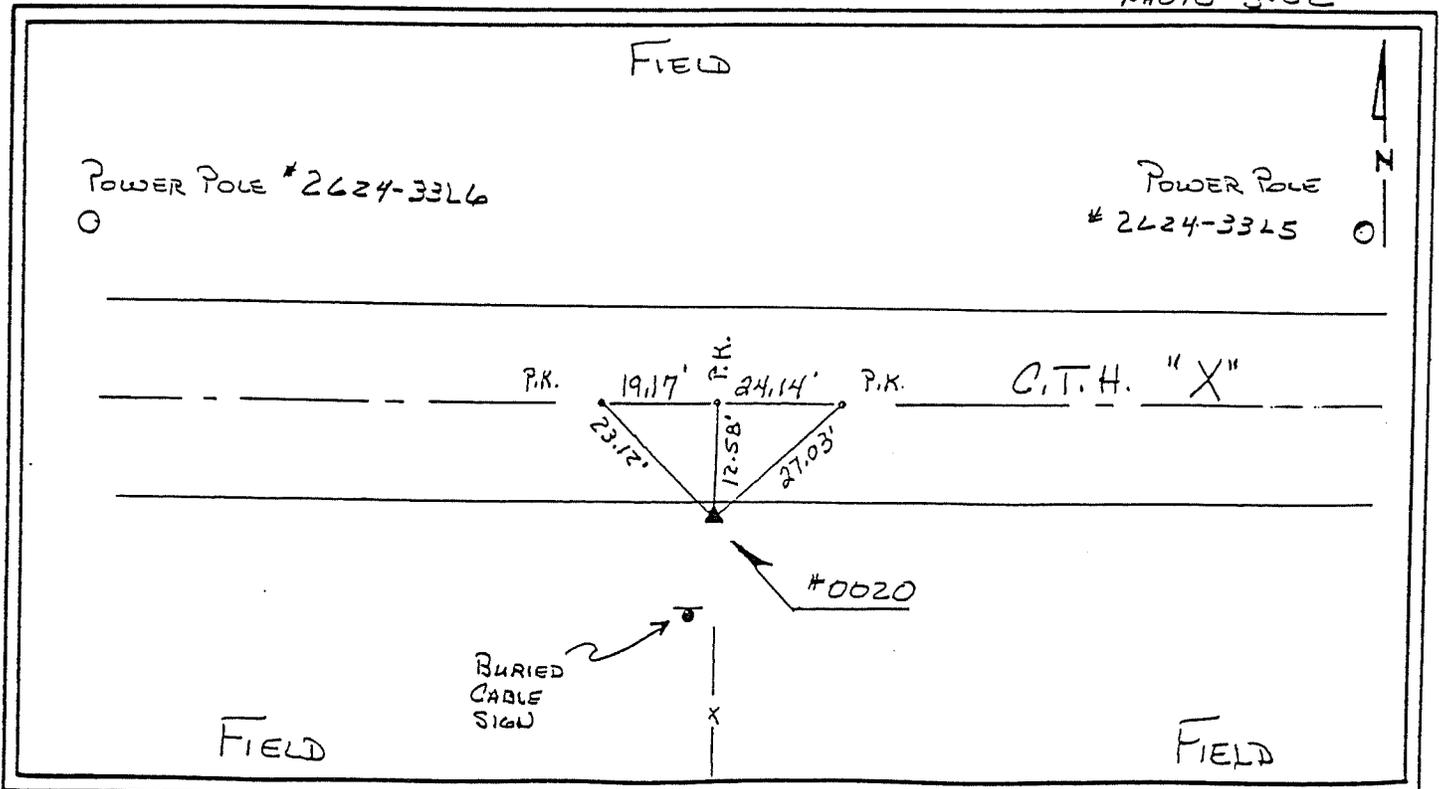
SET BY : Owen Ayres & Associates Inc.
2445 Darwin Road
Madison, WI 53704-3192, (608)249-0471

PROJECT : KEWAUNEE COUNTY WISCONSIN NO. 5256.00 STATION : 20
GPS FIRST ORDER TRAVERSE STATE : WISCONSIN
TYPE OF MARK : GPS GEODETIC MON. YEAR SET : 1993 COUNTY : KEWAUNEE
WISCONSIN 1983 SYSTEM OF PLANE COORDINATES WISCONSIN CENTRAL Zone
COMBINATION FACTOR : 0.99992698 QUADRANGLE : BRUSSELS
NORTHING : 316,260.919' EASTING : 2,593,613.819' THETA ANGLE : + 1° 41' 30"

To Station	North Azimuth	Bearing	Grid Distance
19	263° 36' 6"	S 83° 36' 6" W	1,447.70'

LOCALITY: ABOUT 0.25 MILE EAST FROM THE NORTHWEST CORNER OF SECTION 4;
T25N, R24E1 IN "LINCOLN" TOWNSHIP; ABOUT 9.0 AIR MILES
NORTHWEST FROM "ALGOMA";
ABOUT 0.25 MILE EAST FROM C.T.H. "C";
THE STATION IS SET ON LOWER THAN THE GROUND

PHOTO 5-02



HORIZONTAL CONTROL DATA



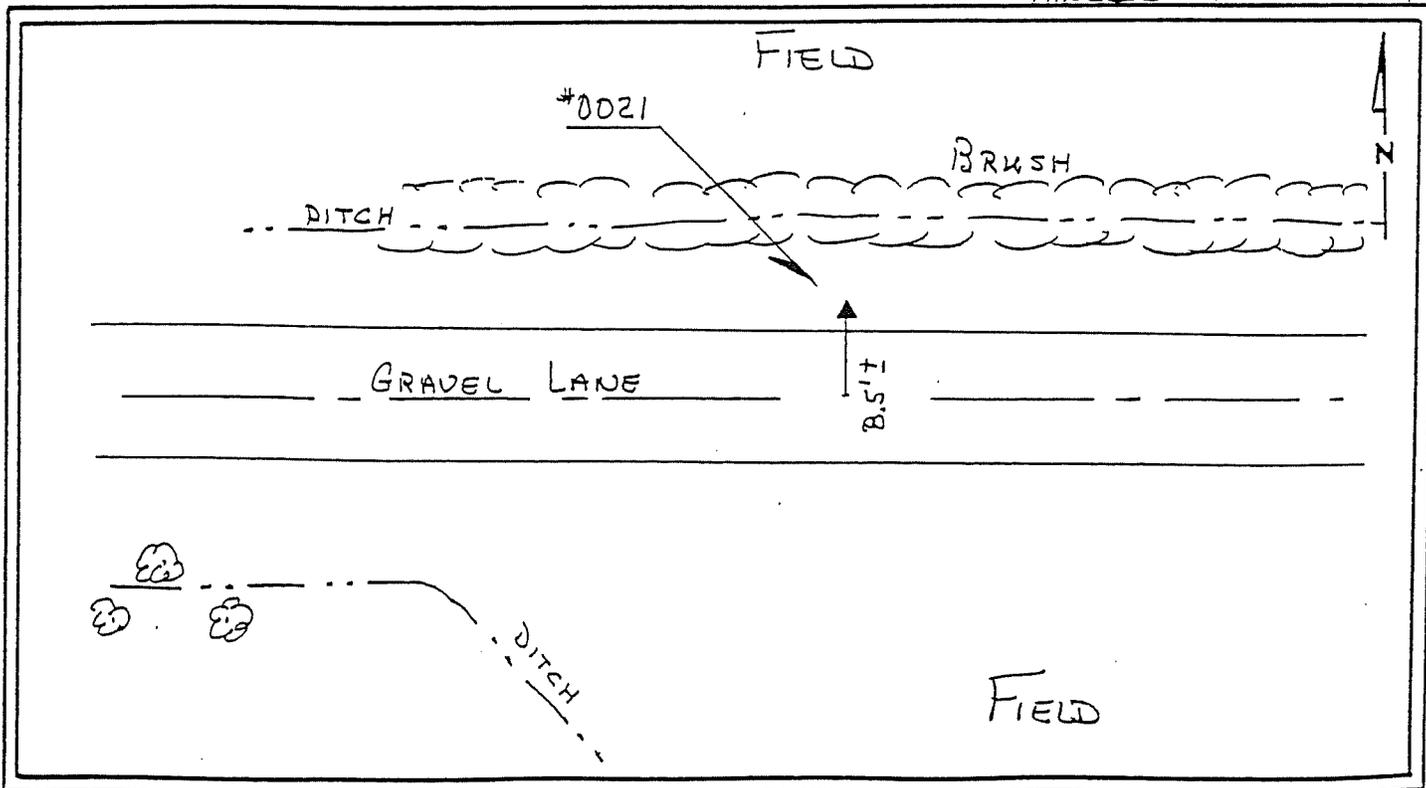
SET BY : Owen Ayres & Associates Inc.
 2445 Darwin Road
 Madison, WI 53704-3192, (608)249-0471

PROJECT : KEWAUNEE COUNTY WISCONSIN NO. 5256.00 STATION : 21
 GPS FIRST ORDER TRAVERSE STATE : WISCONSIN
 TYPE OF MARK : GPS GEODETIC MON. YEAR SET : 1993 COUNTY : KEWAUNEE
 WISCONSIN 1983 SYSTEM OF PLANE COORDINATES WISCONSIN CENTRAL Zone
 COMBINATION FACTOR : 0.99992698 QUADRANGLE : NAMUR
 NORTHING : 315,960.431' EASTING : 2,571,814.853' THETA ANGLE : + 1' 37' 46"

To Station	North Azimuth	Bearing	Grid Distance
22	268° 47' 7"	S 88° 47' 7" W	1,555.66'

LOCALITY: NEAR THE NORTHWEST CORNER OF SECTION 2, T25N, R23E;
(N) "RED RIVER" TOWNSHIP; ABOUT 9 AIR MILES NORTH FROM
"LUXEMBURG"; ABOUT 1.0 MILES FROM "ROCKY ROAD" ALONG
"DOOR & KEWAUNEE CO LINE ROAD";
THE STATION IS SET FLUSH WITH THE GROUND.

PAVELED - PHOTO 2-01



STATION: 0022

HORIZONTAL CONTROL DATA

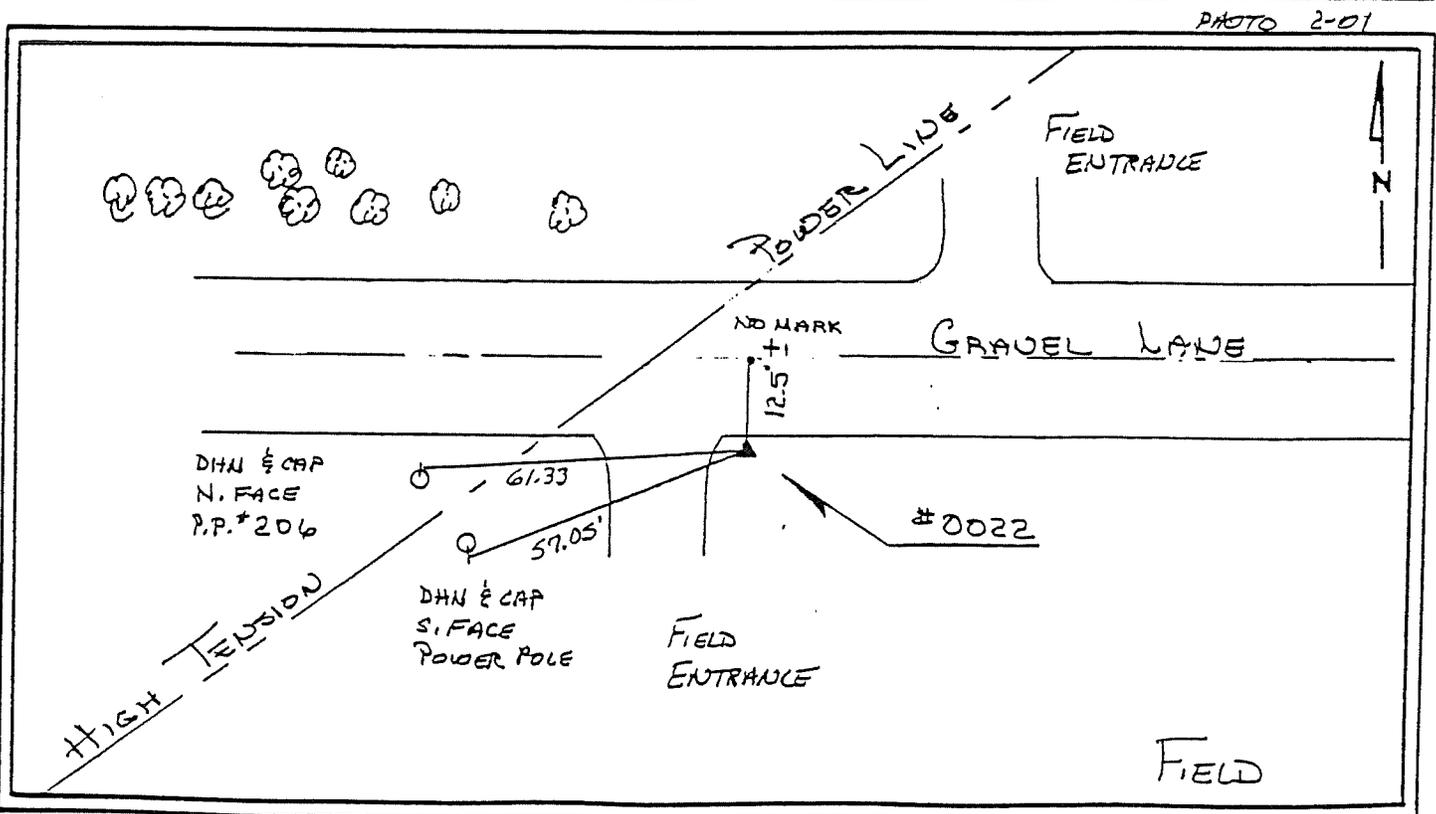
AYRES
ASSOCIATES

SET BY : Owen Ayres & Associates Inc.
2445 Darwin Road
Madison, WI 53704-3192, (608)249-0471

PROJECT : KEWAUNEE COUNTY WISCONSIN NO. 5256.00 STATION : 22
GPS FIRST ORDER TRAVERSE STATE : WISCONSIN
TYPE OF MARK : GPS GEODETIC MON. YEAR SET : 1993 COUNTY : KEWAUNEE
WISCONSIN 1983 SYSTEM OF PLANE COORDINATES WISCONSIN CENTRAL Zone
COMBINATION FACTOR : 0.99992698 QUADRANGLE : NAMUR
NORTHING : 315,927.449' EASTING : 2,570,259.541' THETA ANGLE : + 1° 37' 30"

To Station	North Azimuth	Bearing	Grid Distance
21	88° 47' 7"	N 88° 47' 7" E	1,555.66'

LOCALITY: ABOUT 0.25 MILE WEST FROM THE NORTHEAST CORNER OF SECTION 3,
T25N, R23E, IN "RED RIVER" TOWNSHIP; ABOUT 9 AIR MILES NORTH
FROM "LUXEMBOURG"; ABOUT 0.75 MILE EAST FROM "ROCKY ROAD" ALONG
DOOR AND KEWAUNEE CO LINE ROAD;
THE STATION IS SET 0.1' LOWER THAN THE GROUND



STATION: 0035

HORIZONTAL CONTROL DATA



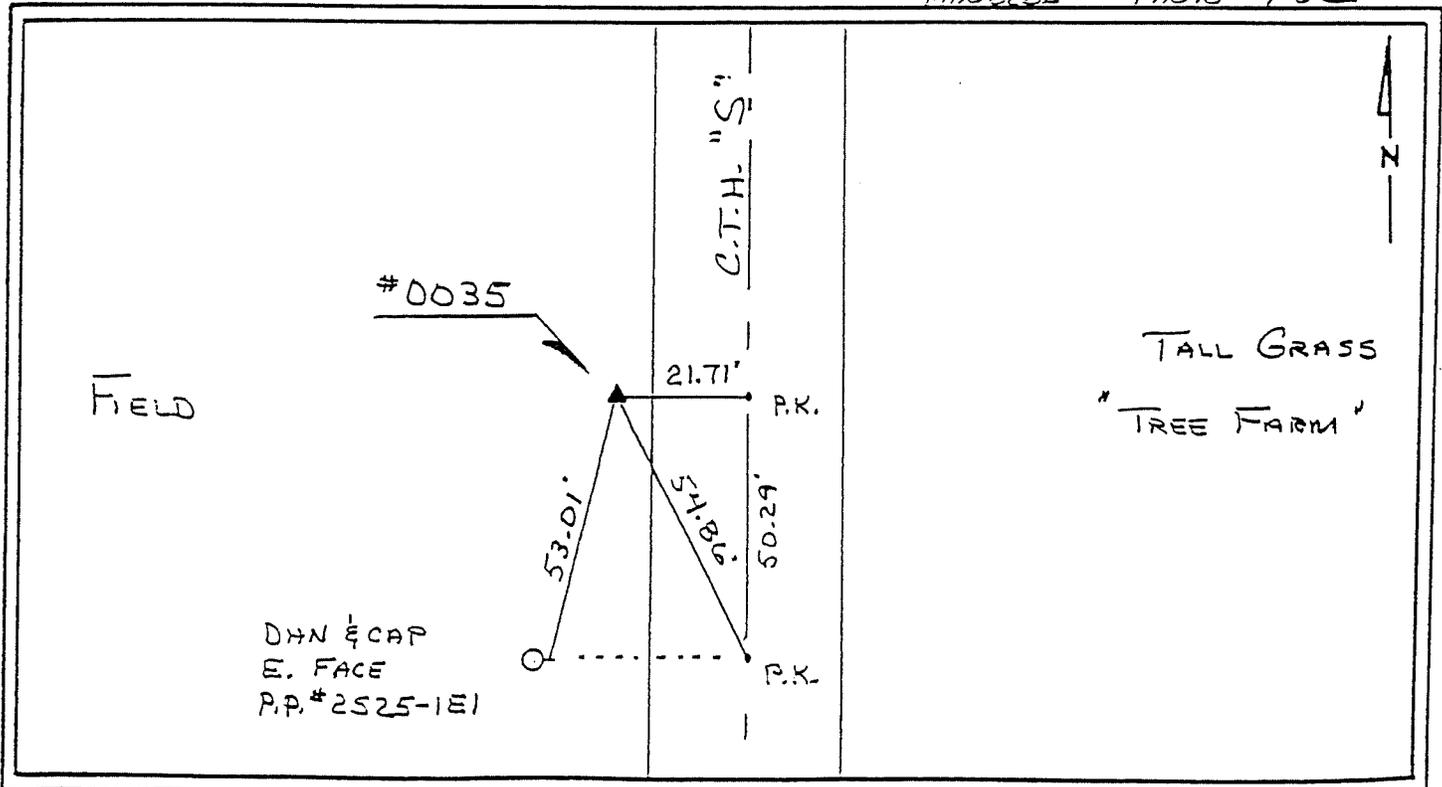
SET BY : Owen Ayres & Associates Inc.
2445 Darwin Road
Madison, WI 53704-3192, (608)249-0471

PROJECT : KEWAUNEE COUNTY WISCONSIN NO. 5256.00 STATION : 35
GPS FIRST ORDER TRAVERSE STATE : WISCONSIN
TYPE OF MARK : GPS GEODETIC MON. YEAR SET : 1993 COUNTY : KEWAUNEE
WISCONSIN 1983 SYSTEM OF PLANE COORDINATES WISCONSIN CENTRAL Zone
COMBINATION FACTOR : 0.99992698 QUADRANGLE : FORESTVILLE
NORTHING : 317,691.763' EASTING : 2,645,322.167' THETA ANGLE : + 1° 50' 20"

To Station	North Azimuth	Bearing	Grid Distance
36	178° 7' 4"	S 1° 52' 56" E	2,531.56'

LOCALITY: ABOUT 200' SOUTH FROM THE NORTHEAST CORNER OF
SECTION 1, T25N. R25E:
ABOUT 200' SOUTH FROM THE "DOOR COUNTY" AND
"KEWAUNEE COUNTY" LINE:
ABOUT 0.48 AIR MILES NNE FROM "ALGOMA"
THE STATION IS SET FLUSH WITH THE GROUND.

PANORAMA - PHOTO 9-02



STATION: 0036

HORIZONTAL CONTROL DATA



SET BY : Owen Ayres & Associates Inc.
2445 Darwin Road
Madison, WI 53704-3192, (608)249-0471

PROJECT : KEWAUNEE COUNTY WISCONSIN NO. 5256.00 STATION : 36
GPS FIRST ORDER TRAVERSE STATE : WISCONSIN
TYPE OF MARK : GPS GEODETIC MON. YEAR SET : 1993 COUNTY : KEWAUNEE
WISCONSIN 1983 SYSTEM OF PLANE COORDINATES WISCONSIN CENTRAL Zone
COMBINATION FACTOR : 0.99992698 QUADRANGLE : FORESTVILLE
NORTHING : 315,161.568' EASTING : 2,645,405.313' THETA ANGLE : + 1° 50' 20"

To Station	North Azimuth	Bearing	Grid Distance
35	358° 7' 4"	N 1° 52' 56" W	2,531.56'

LOCALITY: NEAR THE EAST 1/4 CORNER OF SECTION 1, T25N, R25E:
IN "AHNAPEE" TOWNSHIP:
ABOUT 4.3 AIR MILES NNE FROM "ALGOMA"
THE STATION IS SET 0.1' LOWER THAN THE GROUND
AT THE GRASS LINE AND SHOULDER.

