

AERO-METRIC, INC.  
 4020 TECHNOLOGY PARKWAY  
 SHEBOYGAN, WISCONSIN 53083

RTK  
 BASE

PROJECT 1121109  
 OPERATOR WJN  
 DATE 11/27/12

SITE NUMBER 1  
 SITE NAME 101

TRACKING TIMES (LOCAL) MEASURE CST  
 START 12 22  
 STOP 15 43

SENSOR TYPE 500 9500 399 299  
 MEMORY CARD \_\_\_\_\_  
 BATTERY NO. \_\_\_\_\_  
 CONTROLLER NO. \_\_\_\_\_  
 SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT 299/399 0.441  
 399E/9500 0.389  
 500 0.360  
 4515  
 HEIGHT READINGS MTS FT  
1.193  
1.558

OBSTRUCTIONS: PPL W  
 STATION DESCRIPTIONS 3rd Rebar  
AND PLASTIC CAP

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
<u>18:22</u>		
<u>21:43</u>		

ROVER DOWN @ 9:41  
SENSOR DOWN @ 9:43

11/24 - START RTK

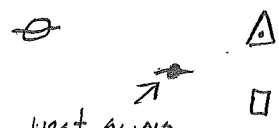
± 6' NE OF CEMETERY SIGN  
 ± 30' S. OF E NW 2350 RD  
 ± 52' W. OF E HWY 59  
 ± 18' E OF PPL # 370945

NW 2350 RD  
 GRAVEL

west side  
 cemetery sign

(59)

SKETCH



**AERO-METRIC, INC.**  
**4020 TECHNOLOGY PARKWAY**  
**SHEBOYGAN, WISCONSIN 53083**

PROJECT 1121109  
 OPERATOR WJN  
 DATE 11/28/12  
JULIAN 333

SITE NUMBER \_\_\_\_\_  
 SITE NAME 107

TRACKING TIMES (LOCAL) MEASURE CDT  
 START 10:30  
 STOP 2:13

SENSOR TYPE            500    9500    399    299  
 MEMORY CARD \_\_\_\_\_  
 BATTERY NO. \_\_\_\_\_  
 CONTROLLER NO. \_\_\_\_\_  
 SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT    299/399            0.441  
                           399E/9500        0.389  
                           500                    0.360  
                           6515

HEIGHT READINGS    MTS                    FT  
                           1.229                    \_\_\_\_\_

1.589

OBSTRUCTIONS: NO

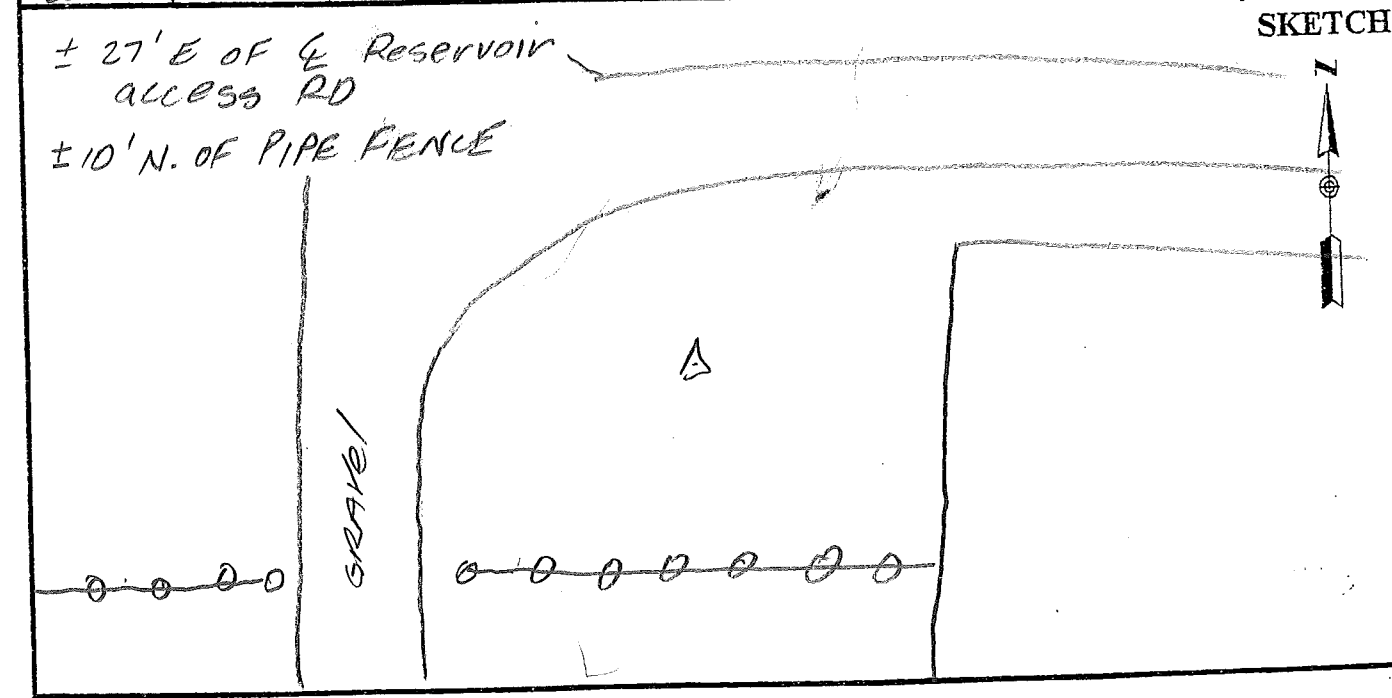
STATION DESCRIPTIONS 507 18" Rebar  
AND PLASTIC CAP

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
16:30		
20:13		

NEBE  
 PROBLEM    30 15 33.13071  
 9518 46.61925  
 276.1173



AERO-METRIC, INC.  
 4020 TECHNOLOGY PARKWAY  
 SHEBOYGAN, WISCONSIN 53083

MOIST  
 MONK  
 ZKCI

PROJECT 1121109  
 OPERATOR WIN  
 DATE 11/28/10  
JULIAN 334

SITE NUMBER \_\_\_\_\_  
 SITE NAME 113

TRACKING TIMES (LOCAL) MEASURE CST  
 START 10 51  
 STOP 15 22

SENSOR TYPE 500 9500 399 299  
 MEMORY CARD \_\_\_\_\_  
 BATTERY NO. \_\_\_\_\_  
 CONTROLLER NO. \_\_\_\_\_  
 SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT 299/399 0.441  
 399E/9500 0.389  
 500 0.360  
GS 15

HEIGHT READINGS MTS FT  
1.121

1.481

OBSTRUCTIONS: No

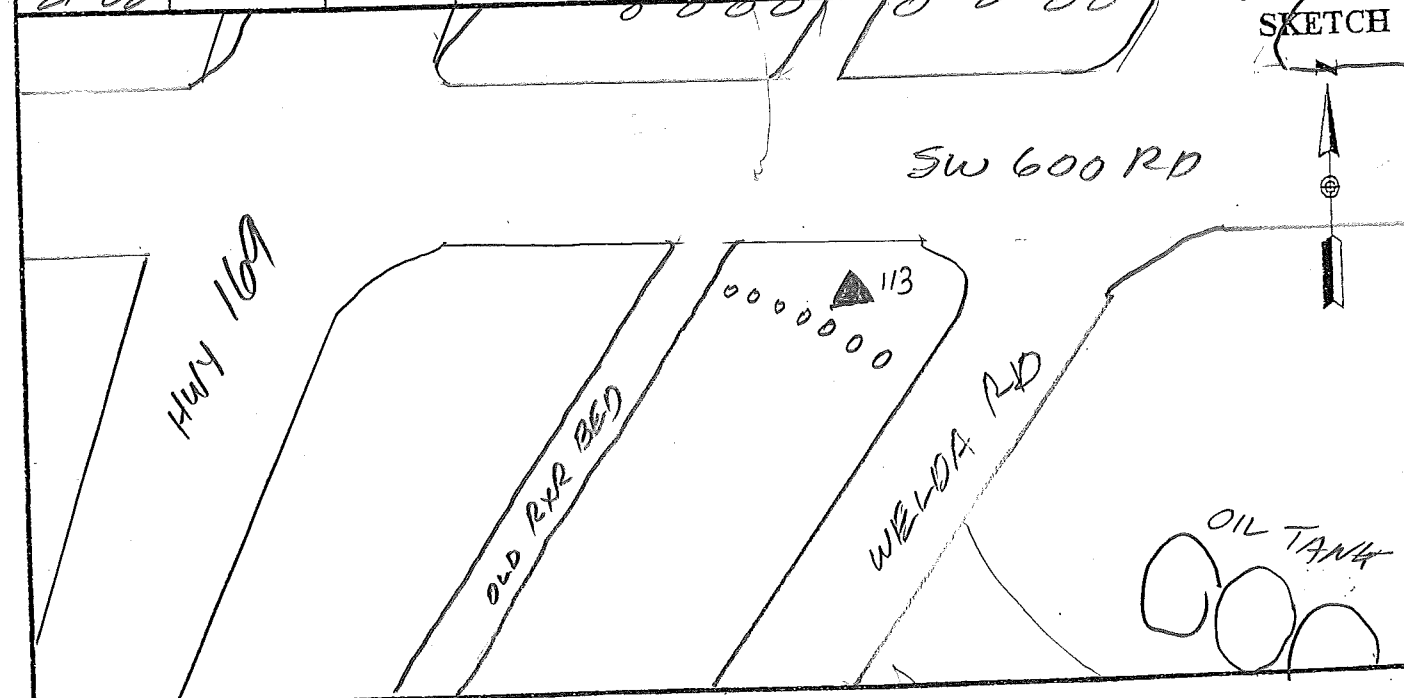
STATION DESCRIPTIONS SET 18"  
REBAR AND PLASTIC CAP  
± 35' S OF E SW 600 RD  
± 30' E OF OLD RXR BED  
± 6' NE OF 3RD POST FROM E.

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
<u>16 51</u>		
<u>21 22</u>		

38 06 40.30179  
95 20 55.57153  
301.9169



1.504  
 741.1

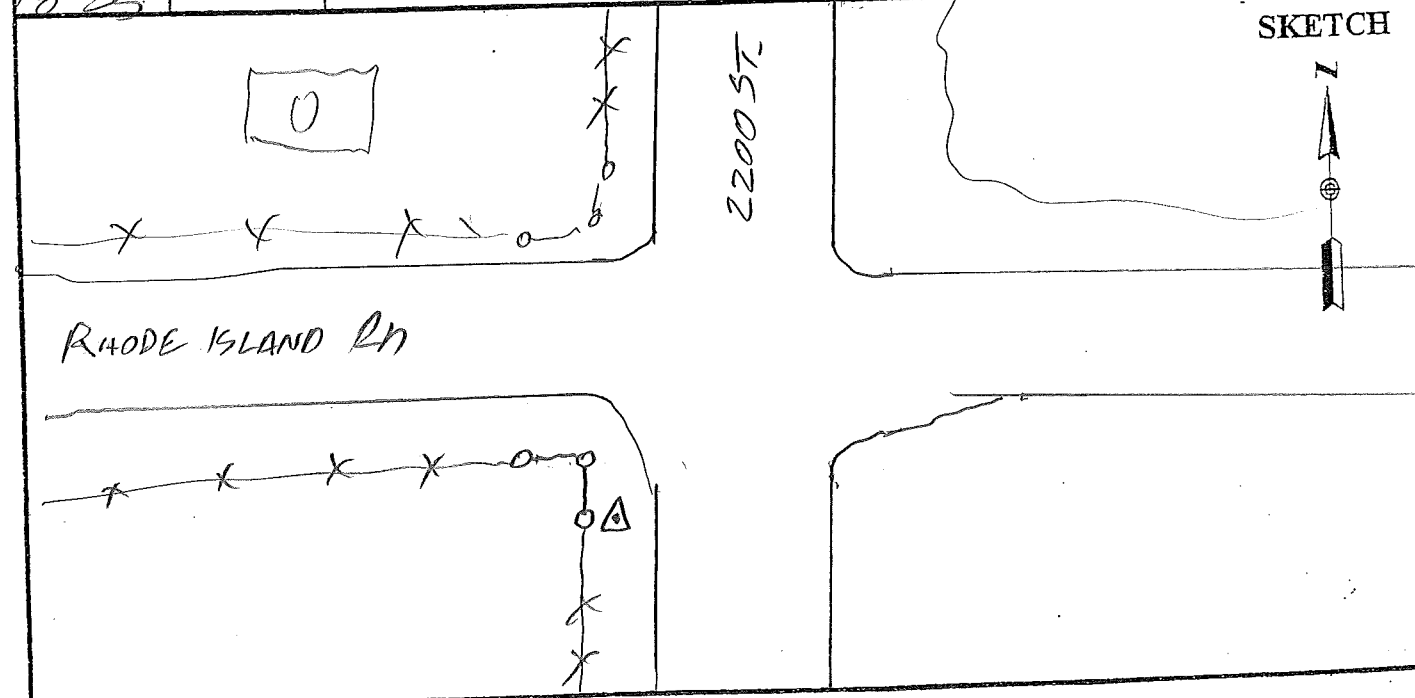
AERO-METRIC, INC.  
4020 TECHNOLOGY PARKWAY  
SHEBOYGAN, WISCONSIN 53083

PROJECT <u>1121109</u>	SITE NUMBER _____
OPERATOR <u>WJN</u>	SITE NAME <u>125</u>
DATE <u>11/30/12</u>	

TRACKING TIMES (LOCAL) MEASURE <u>CST</u>	SENSOR TYPE <u>500</u> <u>9500</u> <u>399</u> <u>299</u>
START <u>9:16</u>	MEMORY CARD _____
STOP <u>12:25</u>	BATTERY NO. _____
	CONTROLLER NO. _____
	SENSOR NO. _____

SENSOR CONSTANT    299/399            0.441 399E/9500            0.389 500 <u>0.360</u>  <u>9515</u>	OBSTRUCTIONS: <u>NO</u>  STATION DESCRIPTIONS <u>SET 18"</u> <u>REBAR AND PLASTIC CAP</u> <u>± 30' S OF G RHODE ISLAND RD</u> <u>± 20' W OF G 2200 ST</u> <u>3' E. OF 3' MOST BRACE POST</u>
HEIGHT READINGS    MTS                    FT  <u>1.184</u> _____  <u>1.544</u>	

SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
TIME	GDOP	SATELLITES	
<u>15 16</u>			<u>37 57 55.80053</u>
<u>18 25</u>			<u>95 20 08.66229</u> <u>283.7355</u>



AERO-METRIC, INC.  
 4020 TECHNOLOGY PARKWAY  
 SHEBOYGAN, WISCONSIN 53083

PROJECT 1121109  
 OPERATOR MIN  
 DATE 11/30/12  
JULIAN 335

SITE NUMBER \_\_\_\_\_  
 SITE NAME 134

TRACKING TIMES (LOCAL) MEASURE LST

START 1302  
 STOP 1544

SENSOR TYPE \_\_\_\_\_  
 MEMORY CARD \_\_\_\_\_  
 BATTERY NO. \_\_\_\_\_  
 CONTROLLER NO. \_\_\_\_\_  
 SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT 299/399 0.441  
 399E/9500 0.389  
 500 0.360  
6615

HEIGHT READINGS MTS FT  
1.191

OBSTRUCTIONS: BRACE POLE S.

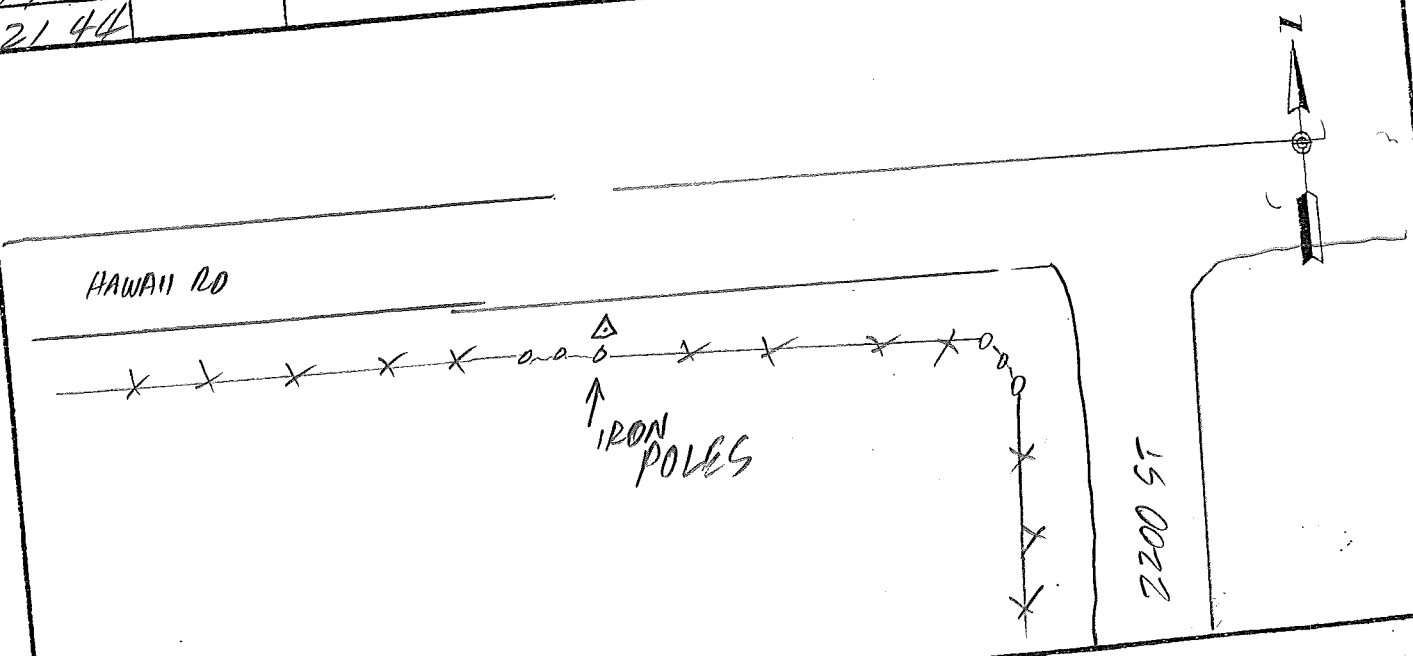
STATION DESCRIPTIONS SET REBAR  
AND PLASTIC CAP  
±275' W. OF INT AND 1200 ST  
±27' S OF E HAWAII RD  
3' N. OF E MOST BRACE POLE

SATELLITE OBSERVATIONS

TIME	GDOP	SATELLITES
<u>19 02</u>		
<u>21 44</u>		

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS  
37 49 12.61206  
95 20 38.43973  
277.3873

SKETCH



AERO-METRIC, INC.  
4020 TECHNOLOGY PARKWAY  
SHEBOYGAN, WISCONSIN 53083

PROJECT 1121109  
OPERATOR WJN  
DATE 12/01/12

SITE NUMBER \_\_\_\_\_  
SITE NAME 142

TRACKING TIMES (LOCAL) MEASURE EST  
START 757  
STOP 1329

SENSOR TYPE 500 9500 399 299  
MEMORY CARD \_\_\_\_\_  
BATTERY NO. \_\_\_\_\_  
CONTROLLER NO. \_\_\_\_\_  
SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT 299/399 0.441  
399E/9500 0.389  
500 0.360  
GS15

HEIGHT READINGS MTS FT  
1.228 \_\_\_\_\_  
  
1.588

OBSTRUCTIONS: WATER TWR NE

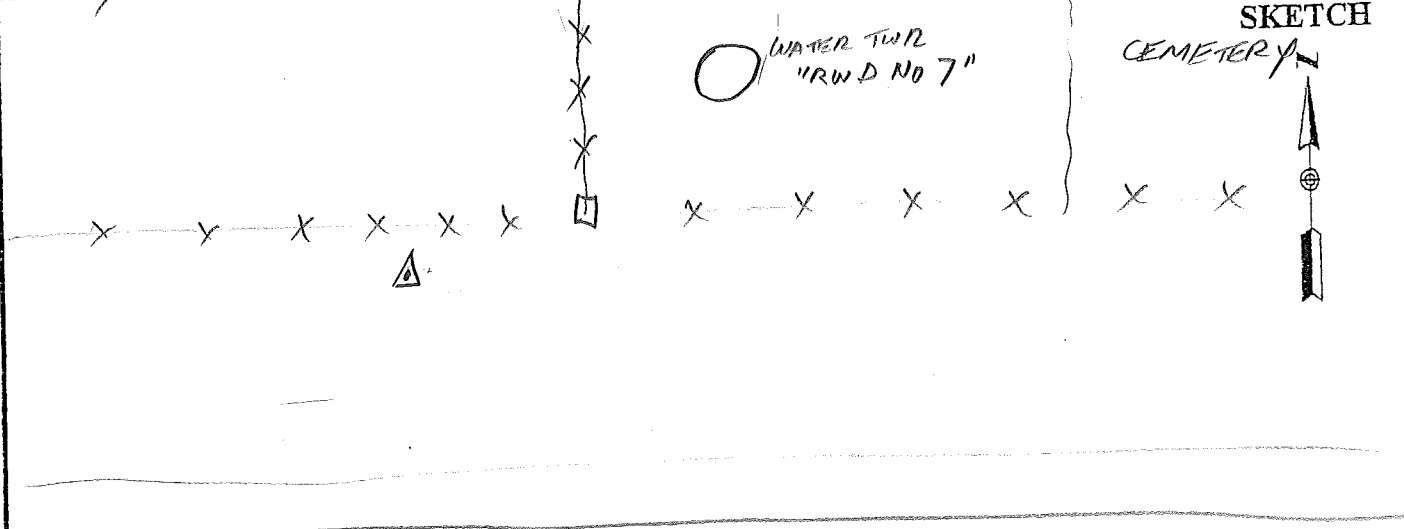
STATION DESCRIPTIONS Set ReBAR  
AND PLASTIC CAP  
± 100' N. OF Q HWY 39  
± 10' W OF INT FENCES E-W-N  
6' S OF N-R/W FEN

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
1357		
1929		

37 40 54 98436
95 20 16 26998
271.0653



(39)

AERO-METRIC, INC.  
4020 TECHNOLOGY PARKWAY  
SHEBOYGAN, WISCONSIN 53083

PROJECT 1121109  
OPERATOR W. W. W.  
DATE 12/01/12

SITE NUMBER \_\_\_\_\_  
SITE NAME 1001

TRACKING TIMES (LOCAL) MEASURE CST  
START RTK BASE  
STOP \_\_\_\_\_

SENSOR TYPE 500 9500 399 299  
MEMORY CARD \_\_\_\_\_  
BATTERY NO. \_\_\_\_\_  
CONTROLLER NO. \_\_\_\_\_  
SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT    299/399    0.441  
                          399E/9500    0.389  
                          500            0.360  
5515

HEIGHT READINGS    MTS            FT  
1.184                            \_\_\_\_\_  
  
1.544

OBSTRUCTIONS: NO

STATION DESCRIPTIONS SET 1B"  
12EBA2 AND PLASTIC CAP  
±60' S. OF Q HWY 47  
±20' E OF Q FIELD ACCESS  
5.5' ENE OF E. GATE POST

TIME	GDOP	SATELLITES

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS  
STATIC DATA NOT  
STORED - MALFUNCTION  
NOTE: THIS POINT IS UNUSUALLY  
NUMBERED BECAUSE IT WILL NOT

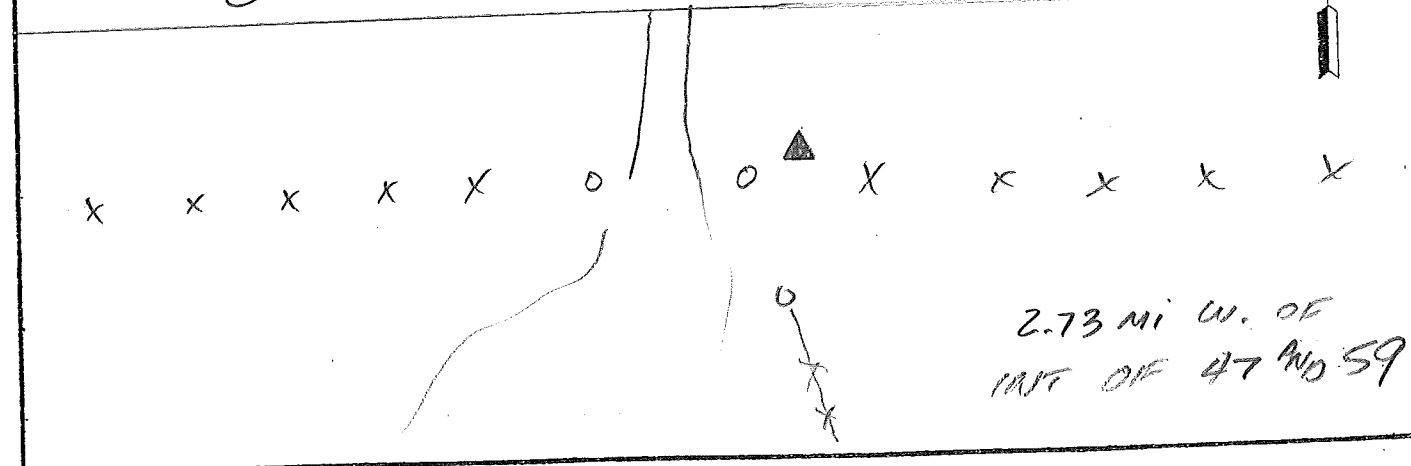
37 31 45. 38566  
95 19 10. 30492  
270.6061

(47)

DO NOT USE FOR TOPO.  
ONLY USED AS RTK BASE  
FOR POINT ACQUISITION

SKETCH

110th RD



AERO-METRIC, INC.  
 4020 TECHNOLOGY PARKWAY  
 SHEBOYGAN, WISCONSIN 53083

*RTK BASE*

PROJECT 1121109  
 OPERATOR WVN  
 DATE 12/02/12

SITE NUMBER \_\_\_\_\_  
 SITE NAME 1001

TRACKING TIMES (LOCAL) MEASURE CST  
 START 9:02  
 STOP 13:34

SENSOR TYPE      500      9500      399      299  
 MEMORY CARD \_\_\_\_\_  
 BATTERY NO. \_\_\_\_\_  
 CONTROLLER NO. \_\_\_\_\_  
 SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT      299/399      0.441  
                                  399E/9500      0.389  
                                  500      0.360  
                                  0.915

HEIGHT READINGS      MTS      FT  
                                  1.181      \_\_\_\_\_

OBSTRUCTIONS: NO

STATION DESCRIPTIONS Rebar and cap set 12/01/12

1.541

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
<u>1502</u>		
<u>1934</u>		

*As BEFORE DESC.*

SKETCH





**AERO-METRIC, INC.**  
**4020 TECHNOLOGY PARKWAY**  
**SHEBOYGAN, WISCONSIN 53083**

*RTR  
BASE*

PROJECT 1121109  
 OPERATOR WJN  
 DATE 12/2/12

SITE NUMBER \_\_\_\_\_  
 SITE NAME 156

TRACKING TIMES (LOCAL) MEASURE CST  
 START 1412  
 STOP 1540

SENSOR TYPE G915 500 9500 399 299  
 MEMORY CARD \_\_\_\_\_  
 BATTERY NO. \_\_\_\_\_  
 CONTROLLER NO. \_\_\_\_\_  
 SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT    299/399    0.441  
                           399E/9500    0.389  
                                500        0.360  
                                G915

HEIGHT READINGS    MTS            FT  
                                1.222            \_\_\_\_\_  
  
1.582

OBSTRUCTIONS: NO

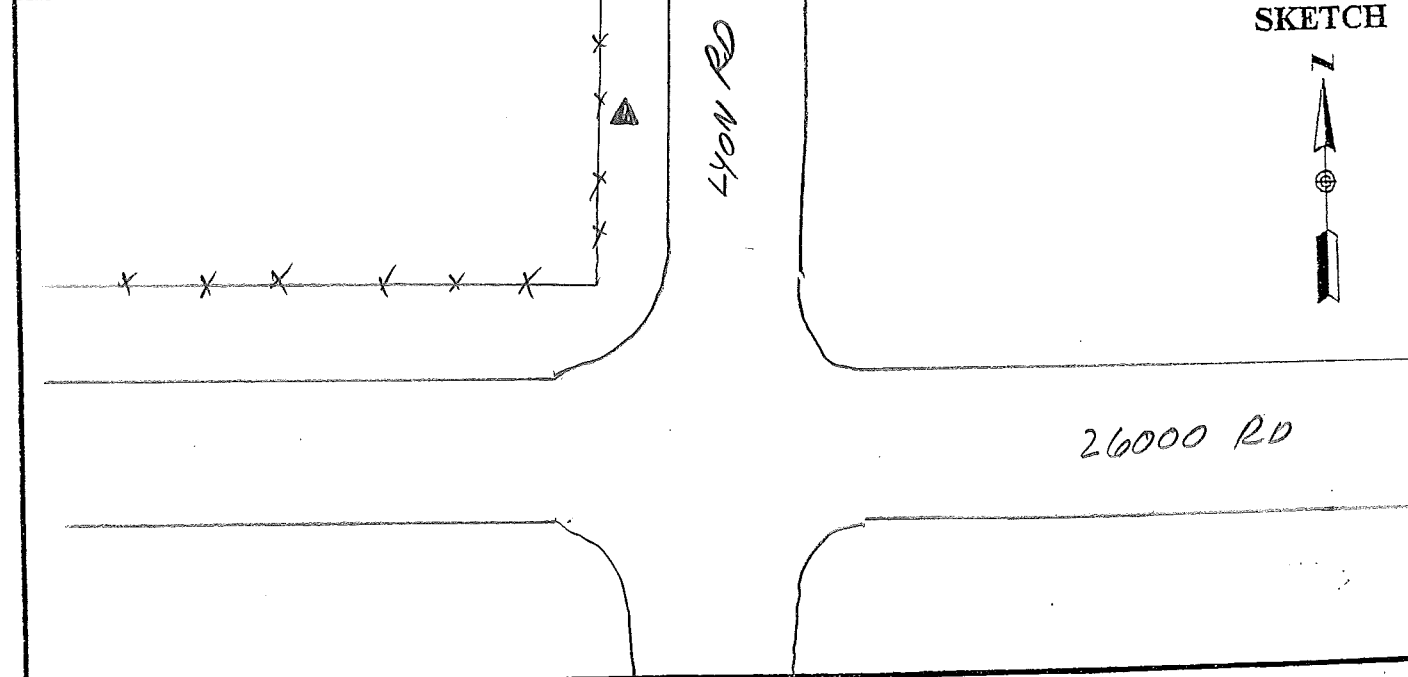
STATION DESCRIPTIONS SO + Rebar  
AND PLASTIC CAP  
± 75' N OF & 26000 RD, ± 30' W OF  
& LYON RD, ± 30' N OF  
FENCE COR, 3' E OF P/W FENCE

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES
<u>2012</u>		
<u>2140</u>		

37 22 09.63149  
95 19 19.13574  
250.3652



AERO-METRIC, INC.  
4020 TECHNOLOGY PARKWAY  
SHEBOYGAN, WISCONSIN 53083

PROJECT 1121109  
OPERATOR MJN  
DATE 12/3/12

SITE NUMBER \_\_\_\_\_  
SITE NAME 156

TRACKING TIMES (LOCAL) MEASURE CST  
START 8:46  
STOP 13:02

SENSOR TYPE            500    9500    399    299  
MEMORY CARD \_\_\_\_\_  
BATTERY NO. \_\_\_\_\_  
CONTROLLER NO. \_\_\_\_\_  
SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT    299/399            0.441  
                          399E/9500           0.389  
                          6515 500            0.360

HEIGHT READINGS        MTS                    FT  
                                  1.123                    \_\_\_\_\_

1.483

OBSTRUCTIONS: NO

STATION DESCRIPTIONS SET REBAR (18")  
AND PLASTIC CAP ON 12/2


SATELLITE OBSERVATIONS

TIME	GDOP	SATELLITES
<u>14 46</u>		
<u>19 02</u>		

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

AS BEFORE DESCRIBED

SKETCH



AERO-METRIC, INC.  
4020 TECHNOLOGY PARKWAY  
SHEBOYGAN, WISCONSIN 53083

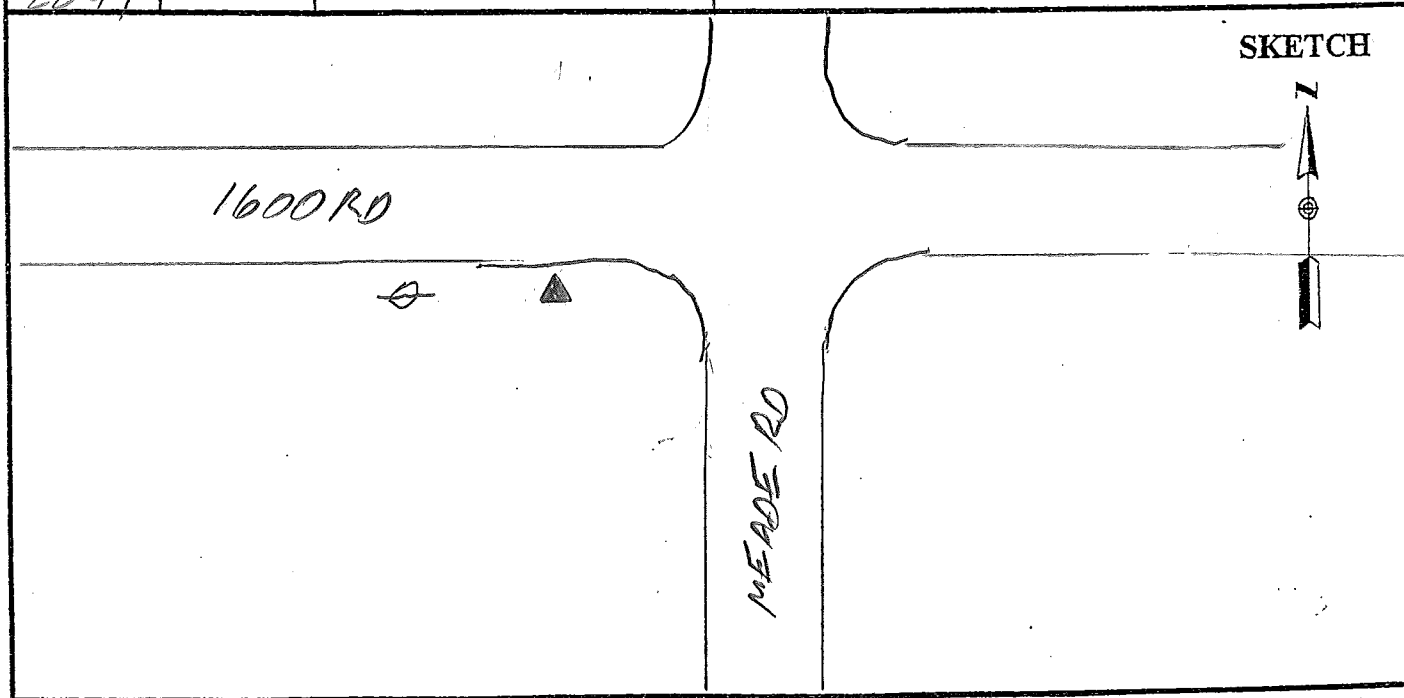
PROJECT <u>1121109</u>	SITE NUMBER _____
OPERATOR <u>WJN</u>	SITE NAME <u>174</u>
DATE <u>12/03/12</u>	

TRACKING TIMES (LOCAL) MEASURE <u>CST</u>	SENSOR TYPE <u>500 9500 399 299</u>
START <u>14:07</u>	MEMORY CARD _____
STOP <u>16:49</u>	BATTERY NO. _____
	CONTROLLER NO. _____
	SENSOR NO. _____

SENSOR CONSTANT    299/399    0.441 399E/9500    0.389 500         0.360	OBSTRUCTIONS: <u>PPL W</u>
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HEIGHT READINGS    MTS                    FT <u>1.152</u> _____  <u>1.512</u>	STATION DESCRIPTIONS <u>SET REBAR 18"</u> <u>AND PLASTIC CAP</u> <u>± 20' S. OF Q 1600 RD</u> <u>± 27' E. OF PPL (NO#)</u> <u>± 39' W. OF Q MEADE RD</u>
--	--

SATELLITE OBSERVATIONS			WEATHER CONDITIONS/IMPORTANT OBSERVATIONS
			<u>370437.35346</u>
TIME	GDOP	SATELLITES	<u>95 18 16.42341</u>
<u>20 07</u>			<u>243.1927</u>
<u>22 49</u>			



AERO-METRIC, INC.  
4020 TECHNOLOGY PARKWAY  
SHEBOYGAN, WISCONSIN 53083

RTK BASE

PROJECT <u>1121109</u>	SITE NUMBER _____
OPERATOR <u>WJN</u>	SITE NAME <u>130</u>
DATE <u>12/04/12</u>	

TRACKING TIMES (LOCAL) MEASURE <u>CST</u>	SENSOR TYPE <u>500 9500 399 299</u>
START <u>9 39</u>	MEMORY CARD _____
STOP <u>1400</u>	BATTERY NO. _____
	CONTROLLER NO. _____
	SENSOR NO. _____

SENSOR CONSTANT	299/399	0.441
	399E/9500	0.389
	500	<u>0.360</u>
	<u>GC 15</u>	
HEIGHT READINGS	MTS	FT
	<u>1.234</u>	
		<u>1.594</u>

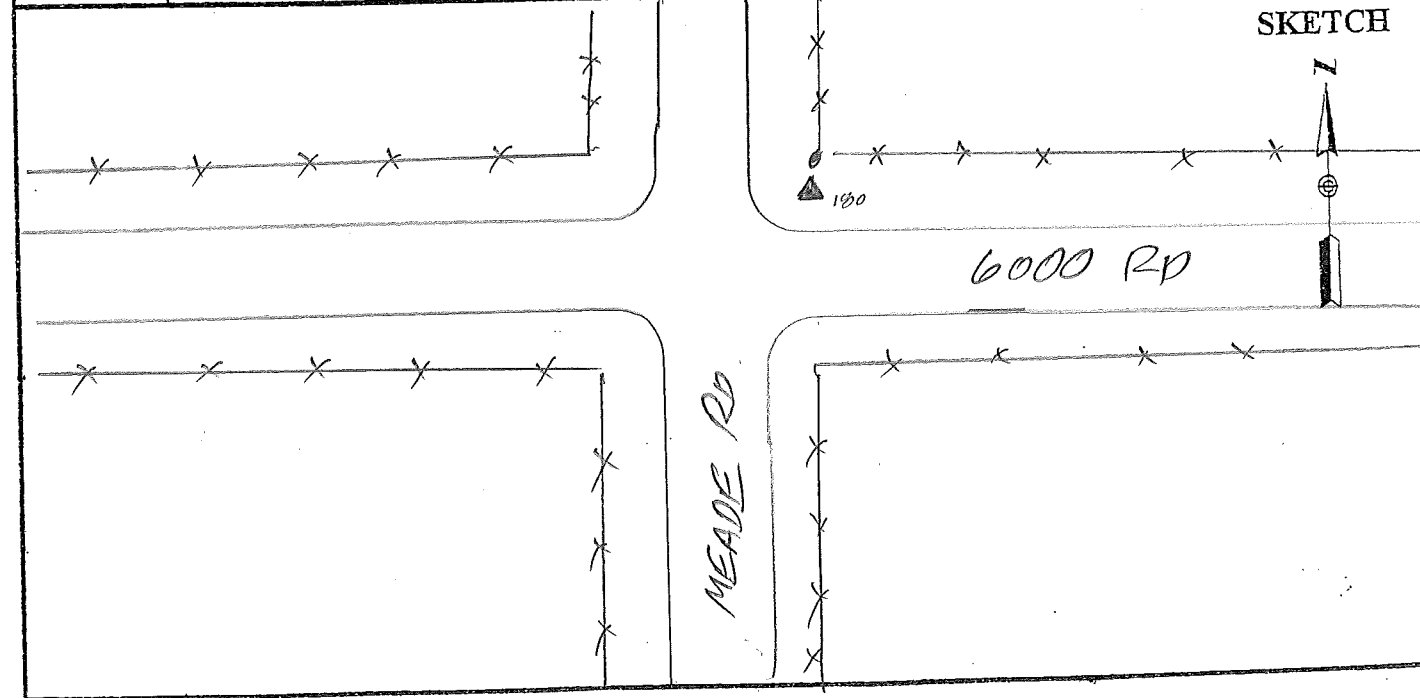
OBSTRUCTIONS: NO

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STATION DESCRIPTIONS set Rebar  
AND PLASTIC CAP  
±20' N. OF & 6000 RD.  
±21' E. OF & MEADE RD  
5' SSW OF STREET SIGN

SATELLITE OBSERVATIONS		
TIME	GDOP	SATELLITES
		370 & 37.35 & 46
		95 19 16 & 23 & 1
		243.1927

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS



AERO-METRIC, INC.  
4020 TECHNOLOGY PARKWAY  
SHEBOYGAN, WISCONSIN 53083

PROJECT 1121109  
OPERATOR WJN  
DATE 12/4/12

SITE NUMBER \_\_\_\_\_  
SITE NAME 187

TRACKING TIMES (LOCAL) MEASURE CSF  
START 14 27  
STOP 15 30

SENSOR TYPE 500 9500 399 299  
MEMORY CARD \_\_\_\_\_  
BATTERY NO. \_\_\_\_\_  
CONTROLLER NO. \_\_\_\_\_  
SENSOR NO. \_\_\_\_\_

SENSOR CONSTANT 299/399 0.441  
399E/9500 0.389  
500 0.360

OBSTRUCTIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

HEIGHT READINGS MTS FT  
1.172 \_\_\_\_\_

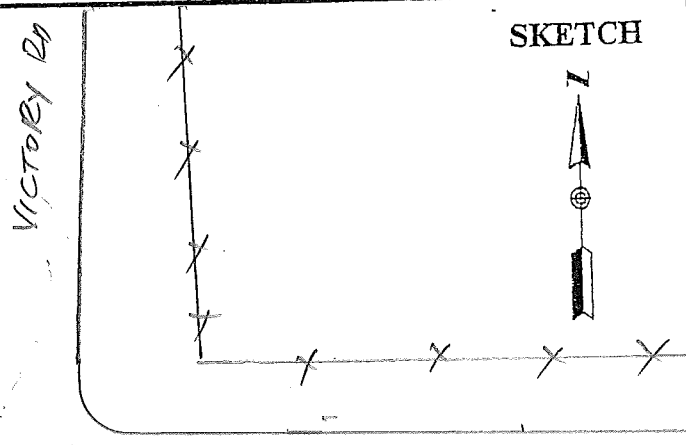
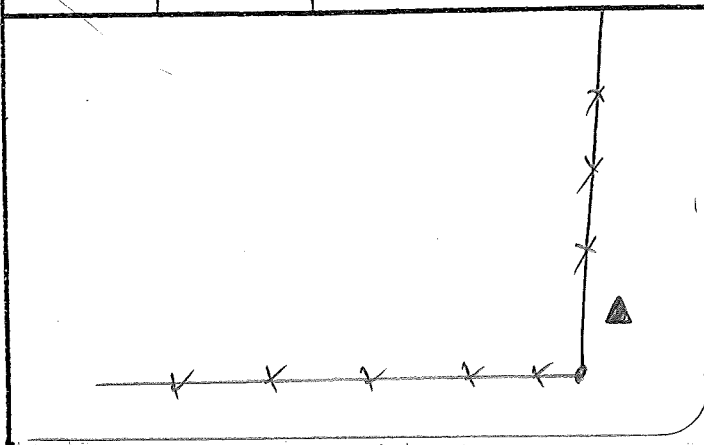
STATION DESCRIPTIONS Set 12"  
SPIKE  
± 95' N. OF E HWY 166  
± 46' W OF E VICTORY RD  
± 14' N AND ± 8' E OF FENCE COR

1.532

SATELLITE OBSERVATIONS

WEATHER CONDITIONS/IMPORTANT OBSERVATIONS

TIME	GDOP	SATELLITES



KS 166