

5520

210107

AERO/D7

Cold's Co

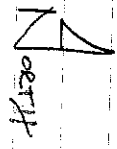
2-29-2012

141

600  
5525dk

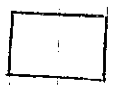
2  
MAG  
5531ck

1900N



450E

1700N

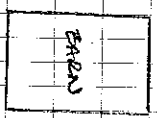
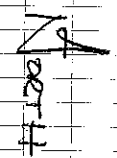


• 5524  
• 5523  
Δ 5520

• 5521

PL 1  
2  
ROAD  
BARN

450E



• 5530  
• 5529  
Δ 5526

• 5527

PL 3  
4  
ROAD  
SHOOT GRASS

210107

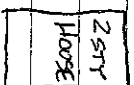
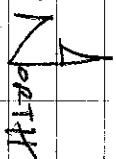
3

Good

SS38 ck

WOOD

3001



5537

5536

5535

5532



5533

Pic 5 Road  
to Tall GRASS

AEPO/D7  
Coles Co

2-29-2012

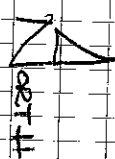
171

4

Good

SS44 ck

WOOD



5543  
BRUSH

5539

5542

5540

WOOD

Pic 7 Road  
to BRUSH

210107

AERO/07

2-29-2012

181

10  
WOOD  
SS504C

5  
MANG  
SS504C

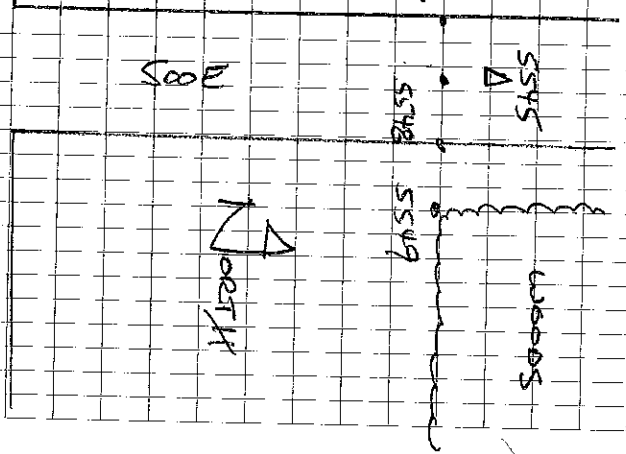
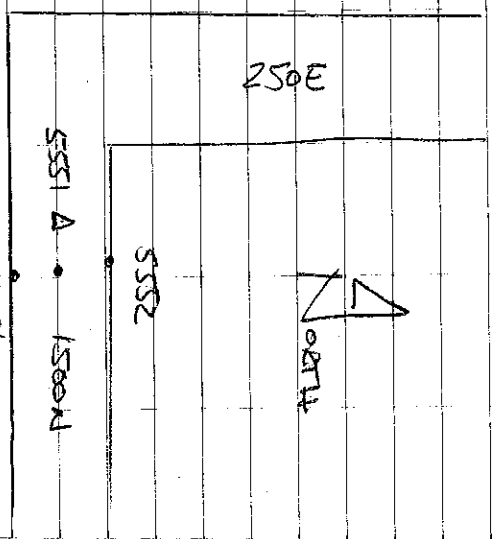
1STY  
HOUSE

Pic 11 Road  
12 Glass SHOOT

Pic 9 Road  
10 Woods

SS55  
SHOOT GLASS

1500W

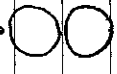
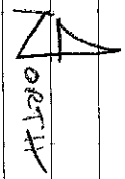


210107

7

600

55622K



55161

55500

5557 Δ • 1520W

55558

2080

2001

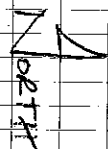
Pic 13 Road  
14 Silo

AERO/D7  
Coles Co

8

600

554821C



5547

5543 Δ • 1520W

5546

5547

BAUSA

2001

Pic 15 BAUSA  
14 Road

210107

AREO/D7

Col's Co

2-29-2012

201

9

600

5575dk

5574

Trail Grass

5573

5572

5571 Δ

5570

1170N



100E

Pic 17 Road

18 Trail Grass

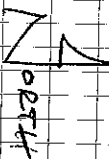
10

600

5581dk

16 paces 200E

16 paces 200E



25ft House

5580

5579

5576 Δ

5577

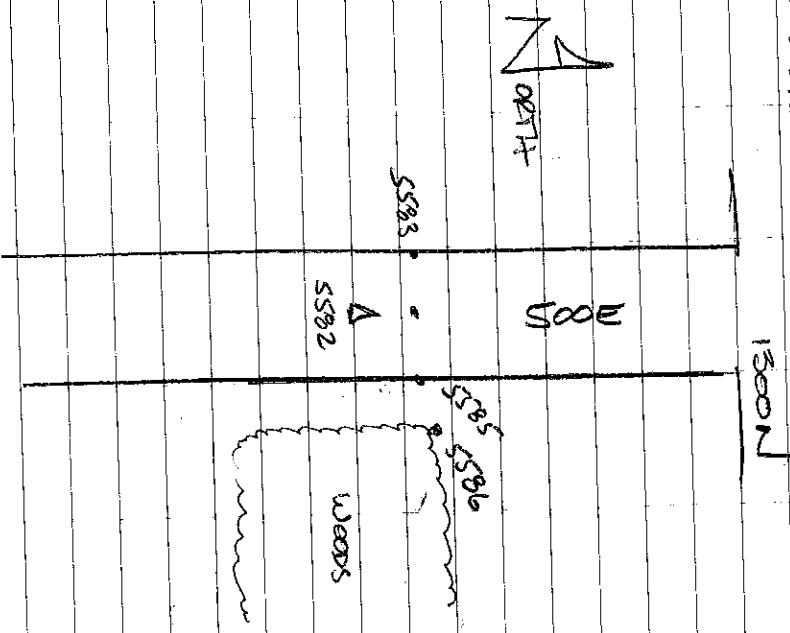
1100N

Pic 18 Road

20 House

210107

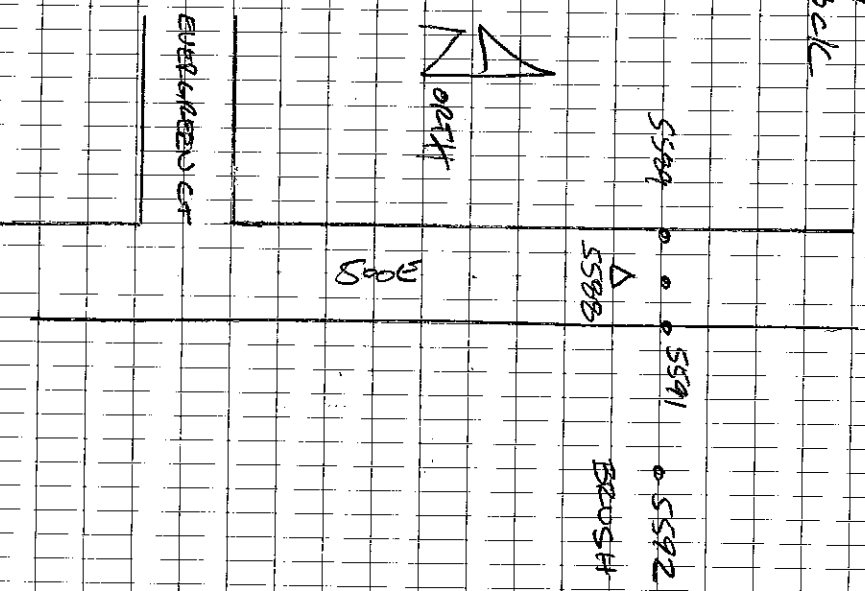
11  
600  
55876K



PIC 21 Road  
22 WOODS

AREO 107  
GOLF C

12  
MAY  
55836K



PIC 23 Road  
24 BRUSH

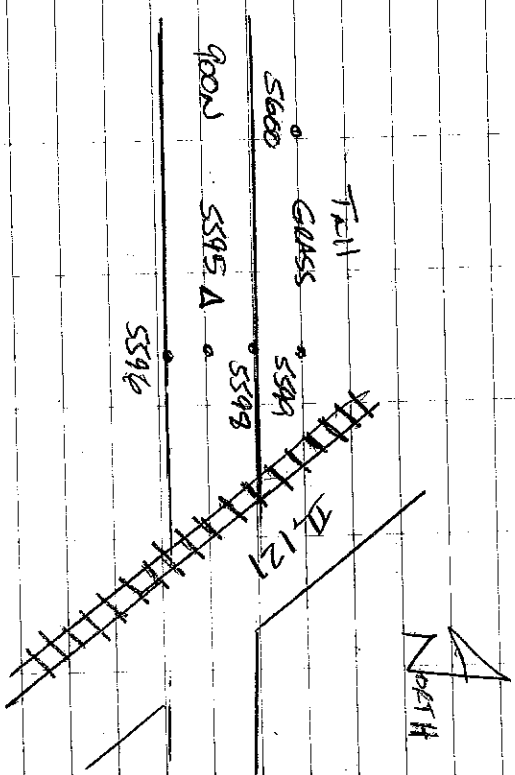
2-29-2012

210107

13

NRG

Spool CK



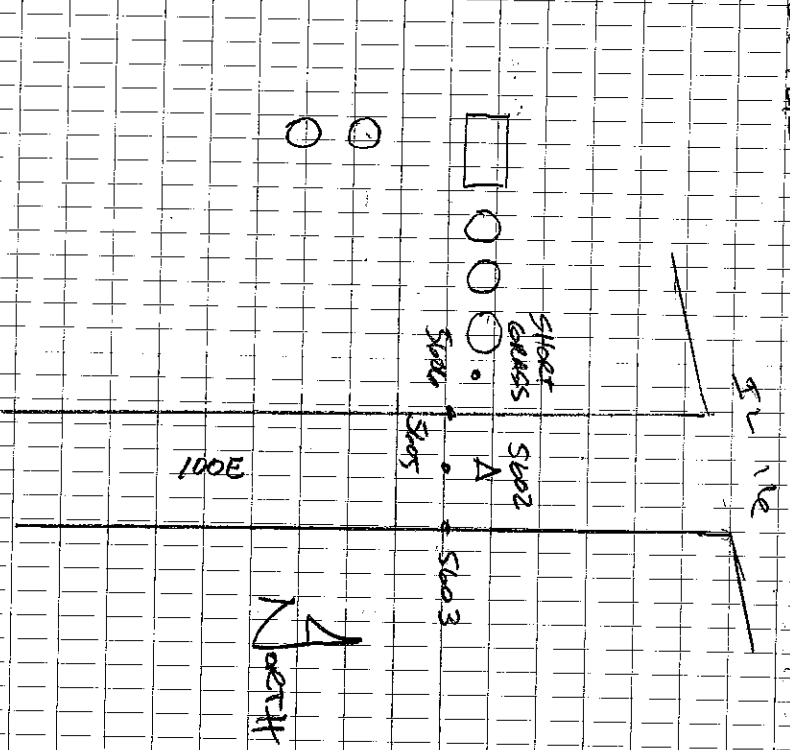
Pic 25 Road

26 Tall Grass

14

NRG

Spool CK



Pic 27 Road

28 Short Grass

Keppel

coke co

2-29-2012

24

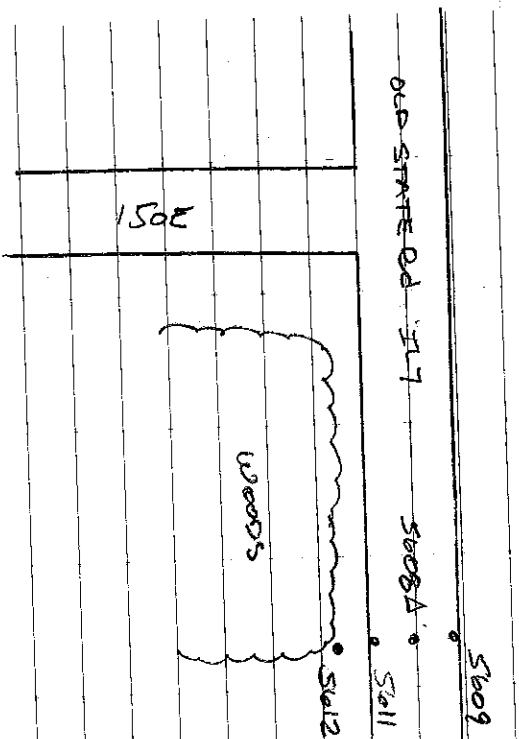
210167

15

MAY

Sta 13 CK

North



Pic 29 Road  
30 Woods

23/

2-28-2012

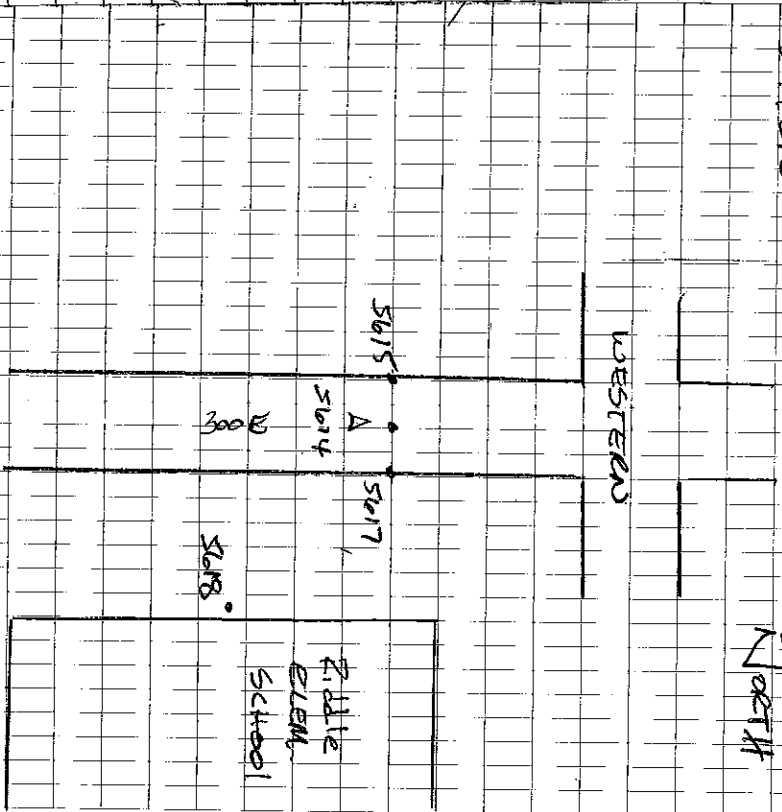
AERO/D7  
Colts Co

16

MAY

Sta 19 CK

North



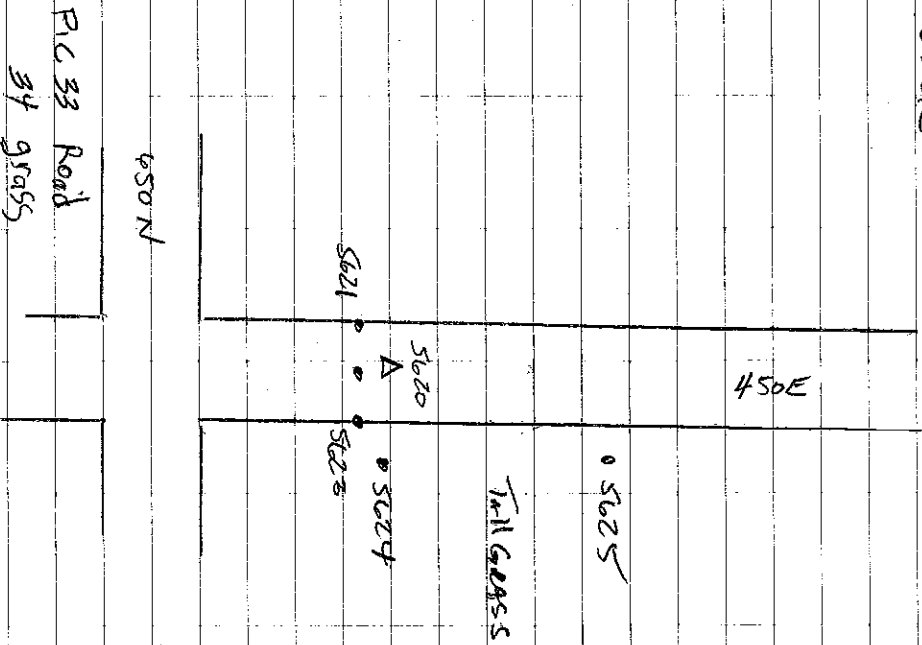
Pic 31 Road  
32 School



210107

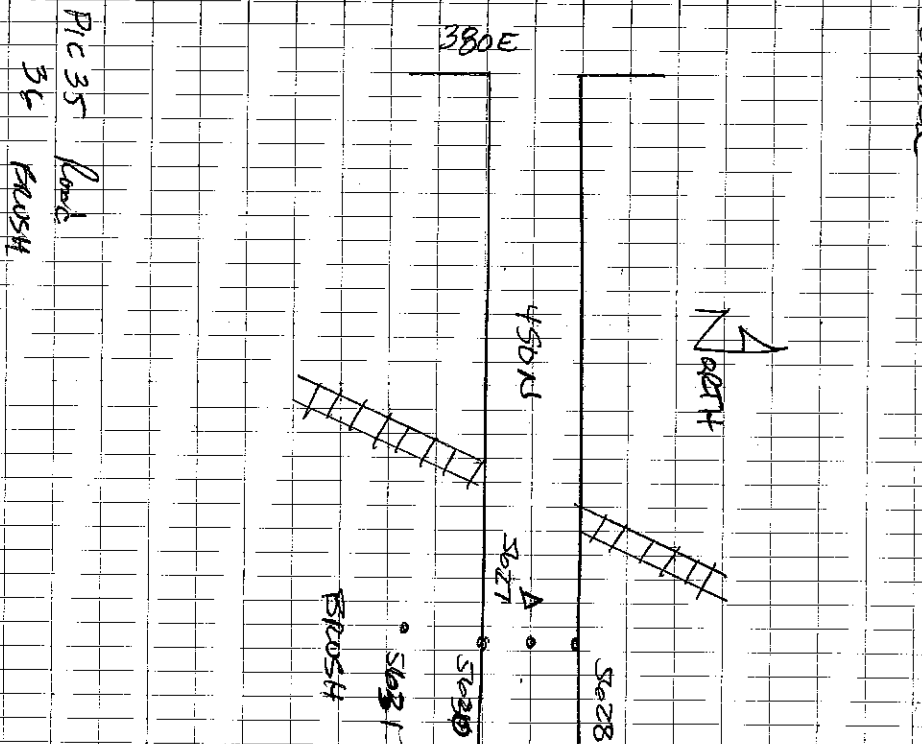
17

MES  
Sedolic



18

WOOD  
Sedolic



AERO/D7  
Coles Co

291  
3-1-2012

210107

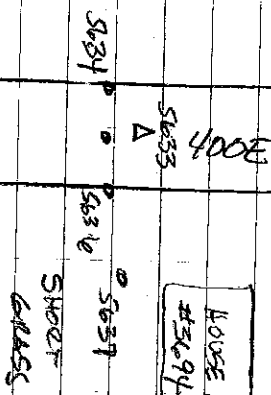
19

Lead

5638K

400N

North



PIC 37 Lead

38 SHOOT GRASS

220107  
Coles Co

3-1-2012

25/

20

Lead

5452K

North

100E

250N

2080



PIC 39

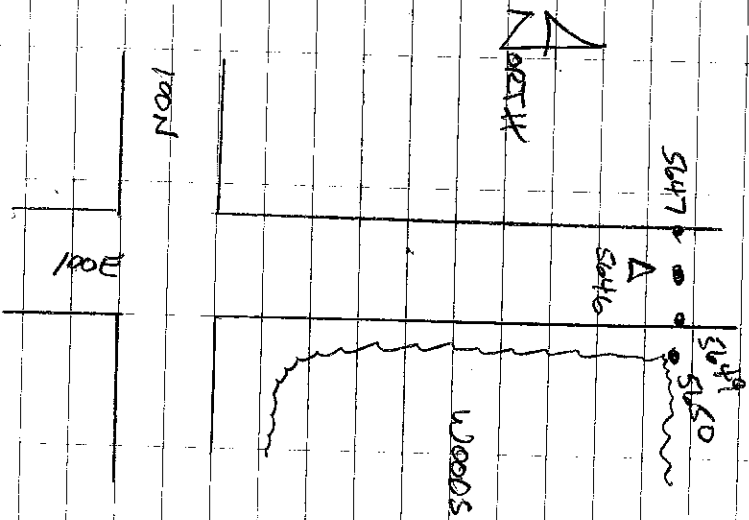
40 SHOOT GRASS

210107

21

MAY

SUSICK



Pic 41 Road  
42 Woods

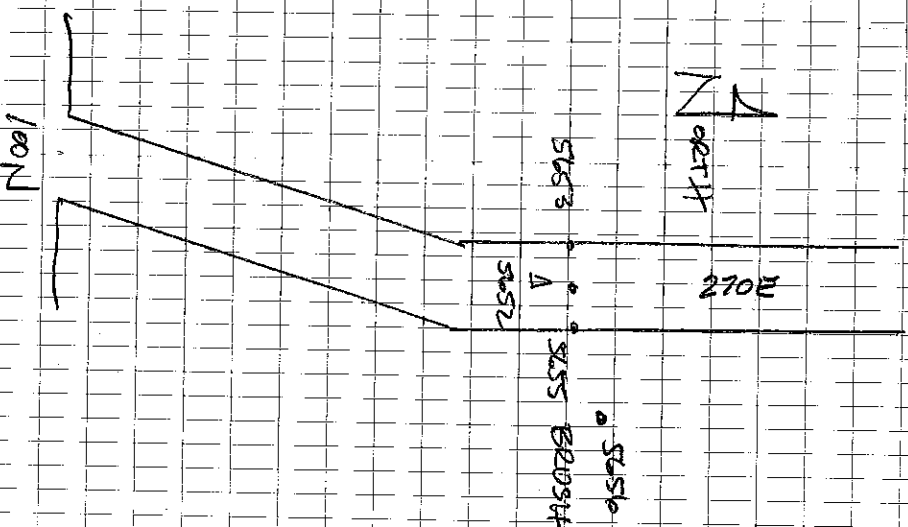
ASPP 107

Poles Co

22

MAY

SUSICK



Pic 43 Road  
44 Woods

24

3-1-2012

210167

23

NAS

SU4DL

SU63 Tall  
GRASS SU62

SU61

SU58 Δ

100N

100E

SU59

North

SU71

Pic 45 Road  
4/8 Tall Grass

AERO/D7  
Colts Co

3-1-2012

27/

24

600

SU20DL

300E

100N

North

SU66

Δ SU65

SU68

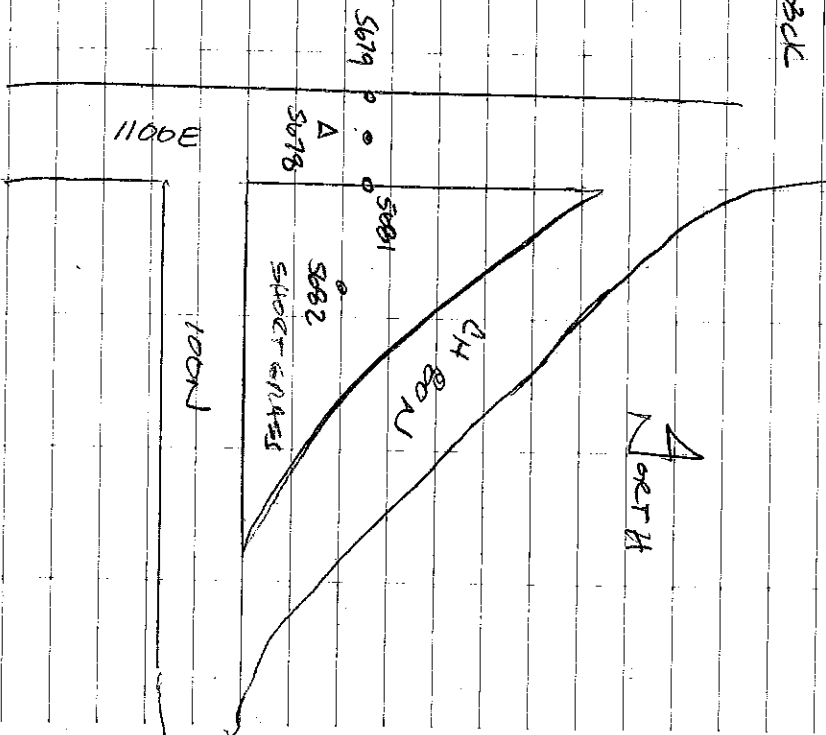
SU69

Woods

Pic 47 Road  
4/8 Woods

210167

210  
LOAD  
SUBCK



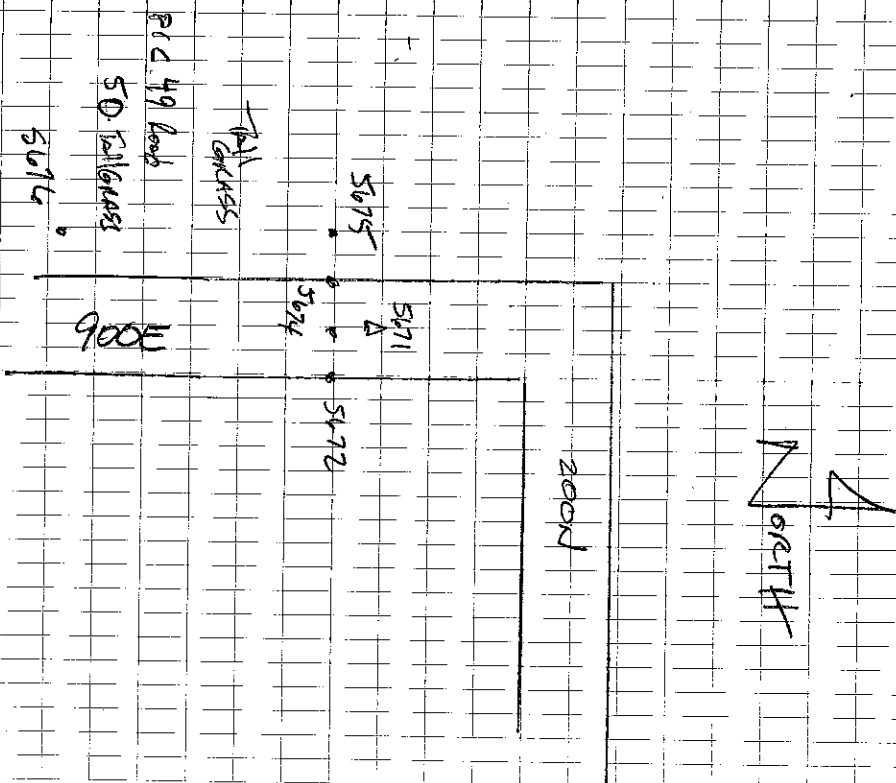
PIC 58 Road  
52 SHOOT GRASS

28/

AREPA/D7  
Coles Co

3-1-2012

25  
LOAD  
5677c



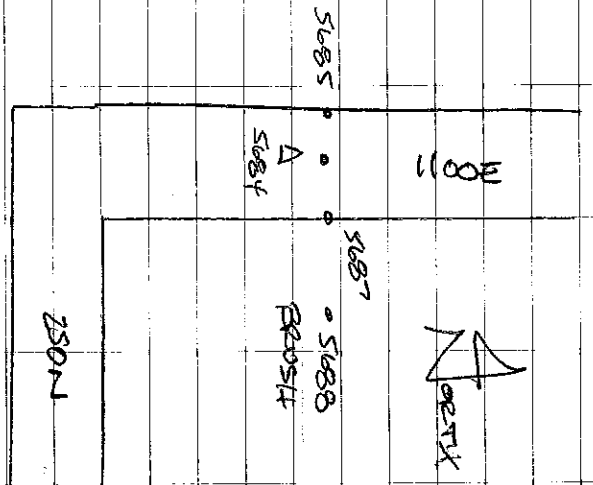
PIC 49 Road  
50 SHOOT GRASS  
5676

210107

27

600

5689C/C



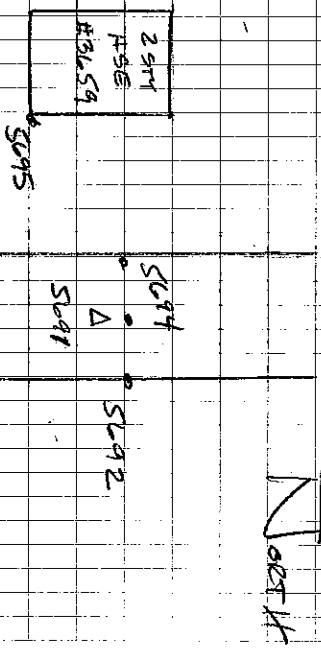
PIC 53 Road  
54 BRUSH

AEP20107  
Colles Co

28

MAC

5496H/C



PIC 55 Road  
56 HOUSE

350M

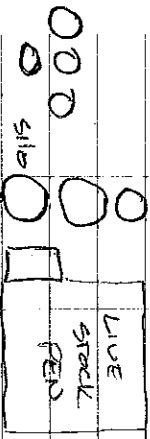
210107

29

MAG

5702ck

North



5701

5700

450N

5499

Ric 57 Road  
58 Silo very Tall

ASPE 107

3-1-2012

3/

30

MAG

5709ck

North

1100E

5708

Tall  
CLASS

5706

5707

5703

5704

450N

1000E

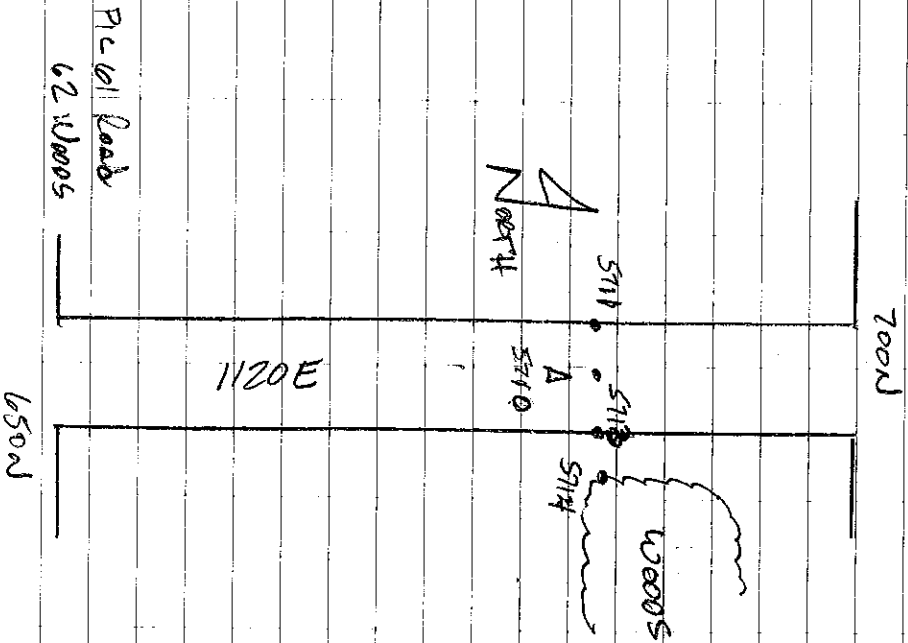
Ric 59 Road  
66 Tall CLASS

210107

31

MKG

5715-1C



APR 10 07

Colts Co

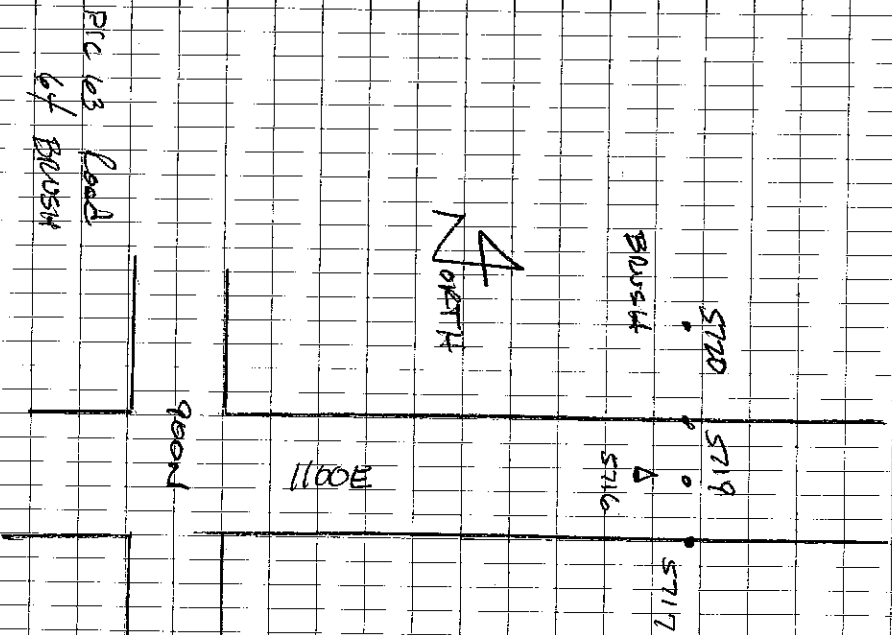
3-1-2012

31

32

MKG

5721-1C



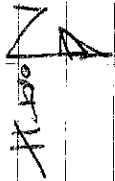


210167

33

MAG

5727CK



woods

5726

5725

5724

5723

870E

800N

PICKS Road  
44 Woods

34

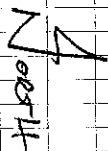
MAG

5729CK

Area 107  
Cells 2

3-1-2012

32/



700E

5729

5728

5727

5726

SHORT GRASS

900N

PICKS Road  
68 SHORT GRASS

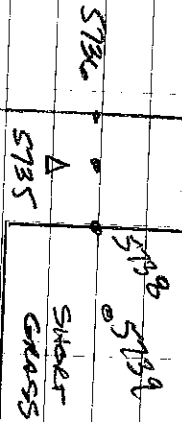
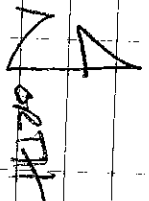
210107

ARL0107  
Colts Co

33/  
3-1-202

35  
MAG  
5740 CIC

FAIRWAY LAKE



GREEN BELT  
DIR

PICUP Road  
70 SHOOT GRASS

LIST # USED  
5741 MOTTOWN AIRPORT BASE

2-29-12  
LM  
SSO SURVY  
+ wind

210107  
AEROYD7  
File: GotesD

↑  
N  
|

PNT 36

1800 N

600  
Δ  
8658

8659  
X  
x60  
x61

X8662

Beige  
Metal  
BLDG

silos

8663 CK 8658

Photos: 101-4090 Road  
4091 BLDG

8/61

Coles Co.  
GPS "D"

↑  
N  
|

PNT 37

1800 N

600  
Δ  
8664

8665  
X  
x66  
X8667

short

X8668

8669 CK 8664

Photos: 101-4092 Road  
4093 Start

2-29-12  
LM  
550 Sunny  
+ wind

210107  
AERO/DT  
COTES D

↑  
N  
|

PNT 38

X 8675

Tall

X 8674

X 73

60D  
Δ  
8670

1700N

X 72

X

8671

8676 CK 8670

Photos: 101-4094 Road  
4095 Tall

8/62

PNT 39

↑  
N  
|

R.R.

Brush

X 8681

X 8680

Mag

Δ  
8677

1700N

X 79

X

8678

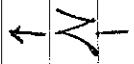
8682 CK 8677

Photos: 101-4096 Road  
4097 Brush

2-29-12  
LM  
55° Sunny  
+  
wind

210107  
AERO/07  
COLESD

PNT 40



700 F

x 8684

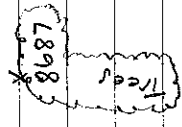
x 85

Mag

Δ 8683

x 86

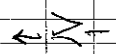
1700 N



8688 CK 8683

Photos: 101-4098 Road  
4099 Trees

8/63



PNT 41

x 8690

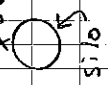
x 91

Δ 8689

60 D

x 92

x 8693



1900 N

8694 CK 8689

Photos: 101-4100 Road  
101-4101 BLDG

2-29-12  
LM  
SSO Windy

210107  
AERO/07  
COLESD

↑  
N  
↓

PNT 412

X 8696  
X 97  
X 98

△ 600  
8695

-1800N

short  
X 8699

8700 C K 8695

Photos, 101-4102 Road  
4103 Short

8/64

↑  
N  
↓

PNT 413

X 8702  
X 03  
X 04

600  
△  
8701

1700N

X 8705

Beige
Metal
Beige
w/white
Doors

8706 C K 8701

Photos, 101-4104 Road  
4105 BLDG

2-29-12

LM

550 very  
windy

210103

AERONAUT

COLLECTED

PNT 44

↑  
N  
↓

8712

x

x 8711

Tall

x<sub>10</sub>

600

Δ

8707

1700 N

x

8708

8713 CK 8707

Photos: 101-4106 Road

4107 Tall

8/65

↑  
N  
↓

PNT 45

600

Δ

8714

8715 x

x

16

x 8717

Brush

x

8718

1650 F

8719 CK 8714

Photos: 101-4108 Road

4109 Brush

2-29-12  
LM  
SS° Windy

210107  
AERO/D7  
COLESO

↑  
N

PNT 46

8721  
X

X22 Δ<sup>600</sup>  
8720

X23

1700N

X  
8724  
Trees

8725 CK 8720

Photos: 101-4110 Road  
4111 Trees

8/66

↑  
N

PNT 47

600  
Δ  
8726

Short

X  
8730

X29 28

X 8727

1500N

8731 CK 8726

8732 CK CL505 R.R. Spike

Photos: 101-4112 Road  
4113 Short



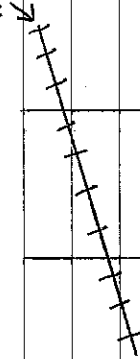
2-29-12  
LM  
55° very  
windy

210107  
AERO/07  
GOLFSD

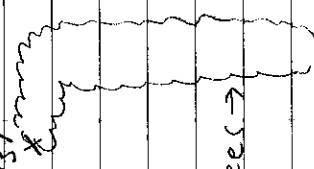
↑  
N

PANT 48

R.R.



8737



X 36 X 35 X 8734

Mag

△

8733

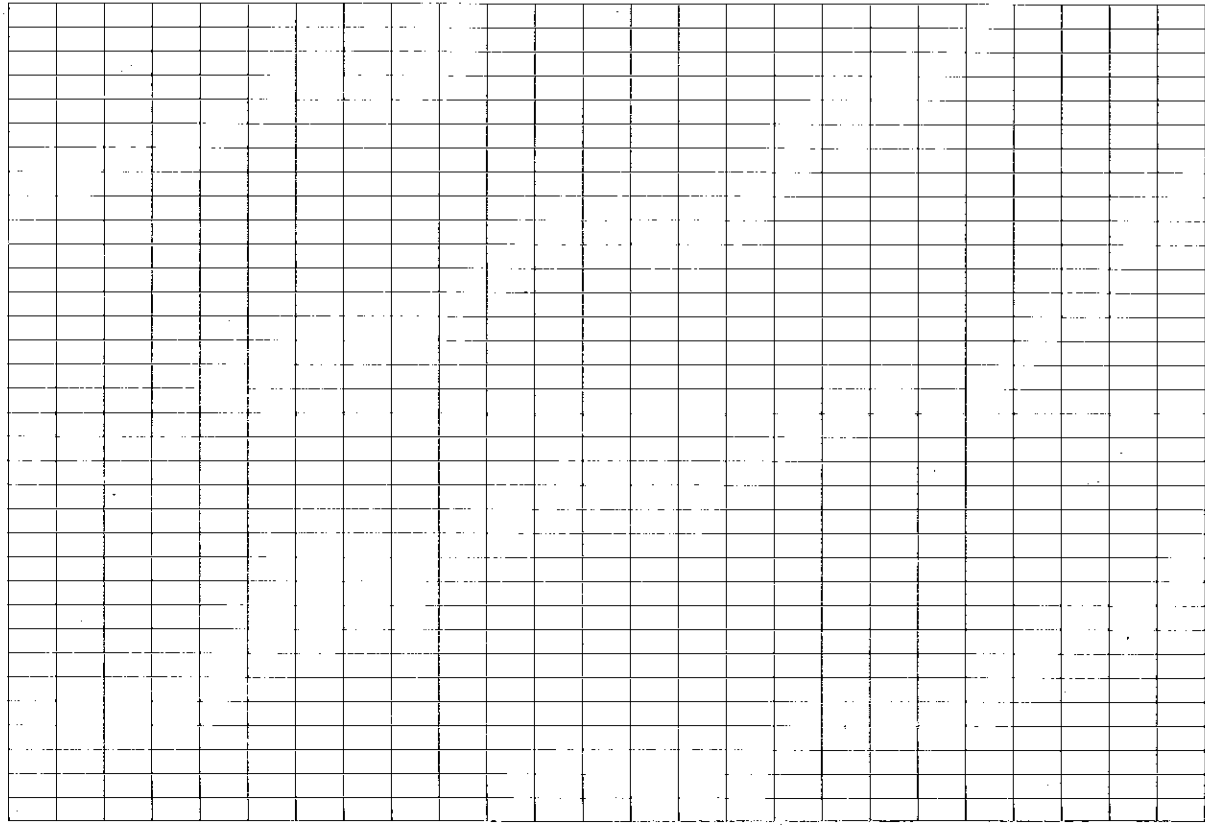
Trees →

1700F

8738 CK 8733

Photos: 101-4114 Road  
4115 Trees

8/67



3-1-12  
LM  
55° Sunny

210107  
AERO/D7  
File: COLES D

↑  
N  
↓

PNT 49

X 8745

600  
Δ  
8740

Tall

43 X  
600 X  
8742 X  
8741 X

X  
8744

1400E

8739 CK D 177 Mon.  
8746 CK 8740

Photos: 101-4116 Road  
4117 Tall

8/68  
Coles Co.  
GPS "D"

↑  
N  
↓

PNT 50

White  
Metal  
Barra  
w/ teal  
Doors

X 8751  
49 X  
50 X  
8748 X

Mag  
Δ  
8747

500E

8752 CK 8747

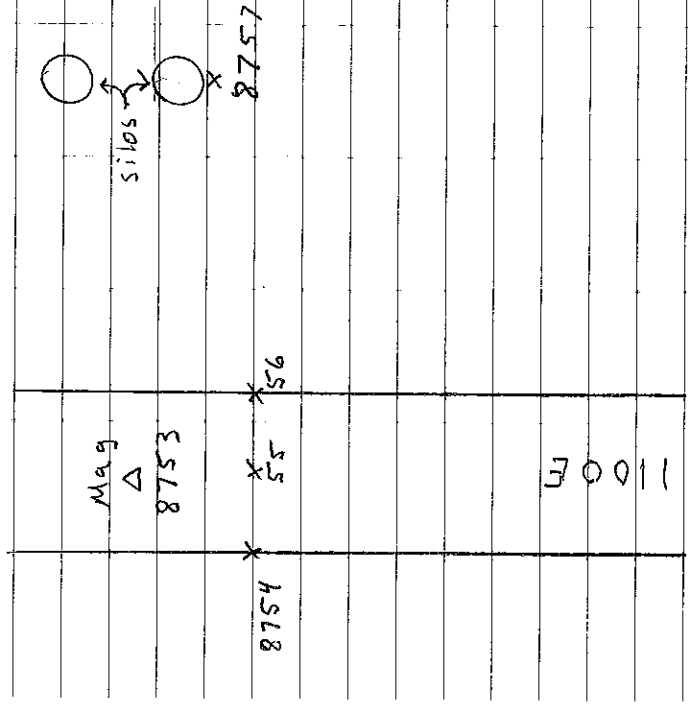
Photos: 101-4118 Road  
4119 8740

3-1-12  
LM  
55° sunny

210107  
AERO/D7  
COLESD

↑  
N

PNT 51



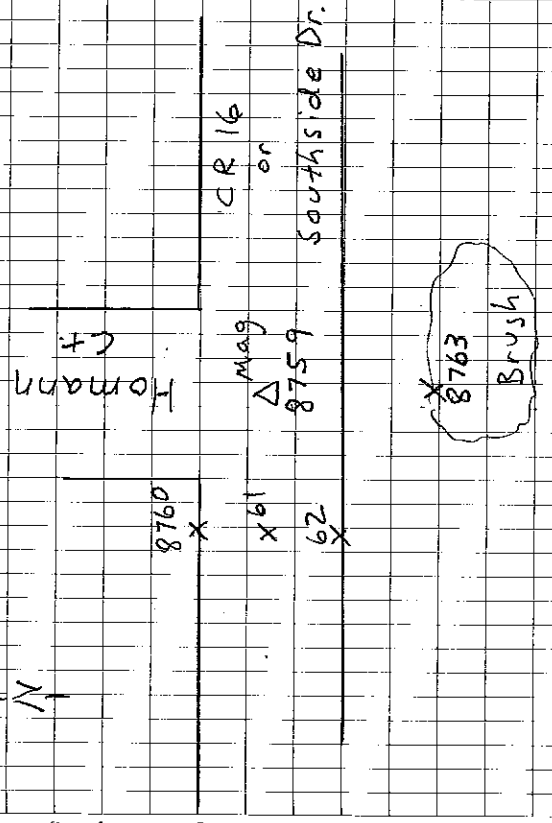
8758 CK 8753

Photos: 101-4120 Road  
4121 BLDG

8/69

PNT 52

↑  
N



8764 CK 8759

Photos: 101-4122 Road  
4123 Brush

3-1-12

LM

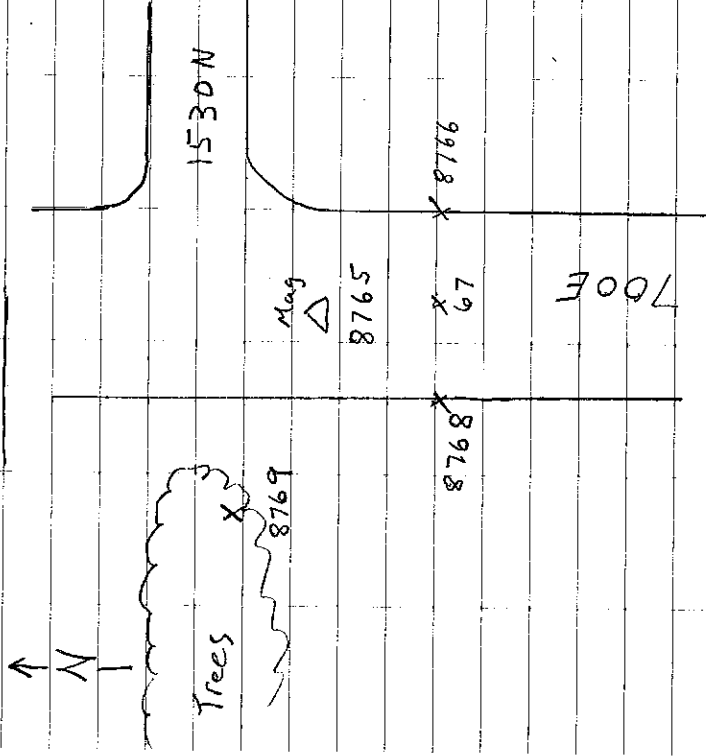
55<sup>th</sup> Survey

210107

AERO/D7

COLES D

PNT 53



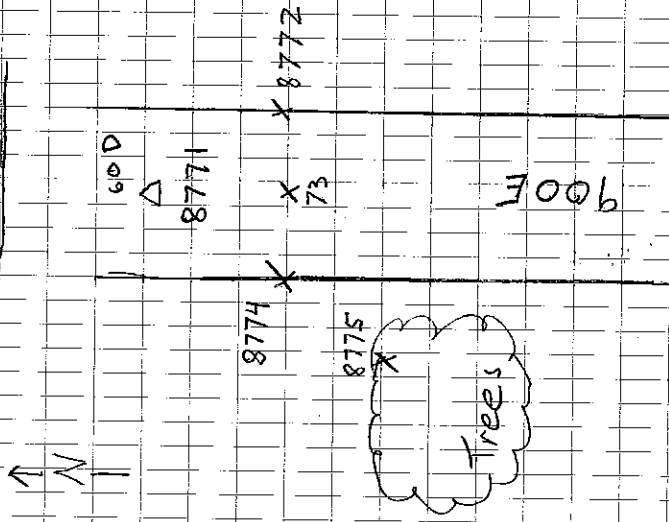
8770 CK 8765

Photos: 101-4124 Road

4125 Trees

8/70

PNT 54



8776 CK 8771

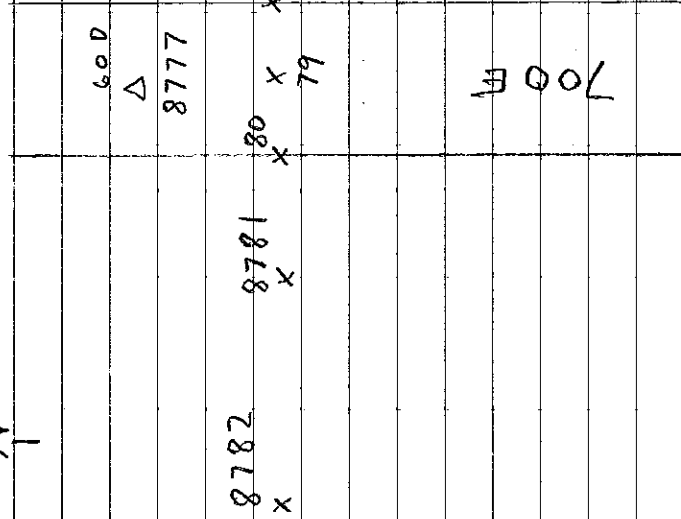
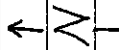
Photos: 101-4126 Road

4127 Trees

3-1-12  
LM  
55° sunny

210107  
AERO/07  
COLESD

PNT 55

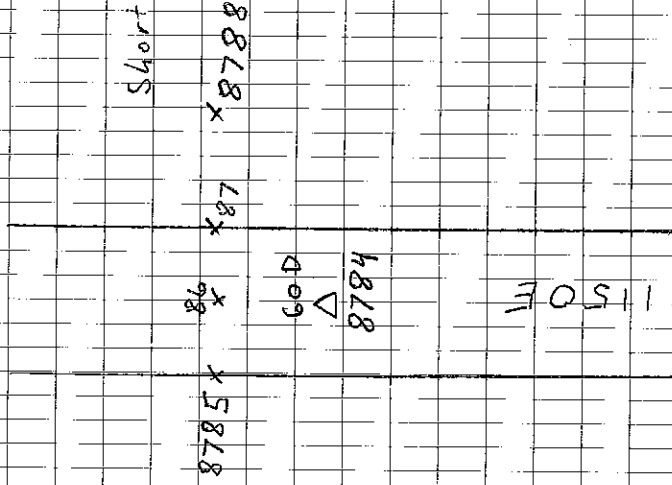
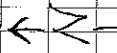


8783 CK 8777

Photos: 101-4128 Road  
4129 Tall

8/71

PNT 56



8789 CK 8784

Photos: 101-4130 Road  
4131 Short

3-1-12  
LM  
55° sunny

210107  
AERO/D7  
COLESD

↑  
N  
↓

PNT 57

X  
8791

X<sup>92</sup> 600  
Δ 8790

1200 N

X<sup>93</sup>

X  
8794

Brush

8795 CK 8790

Photos: 101-4132 Road  
4133 Brush

8/72

PNT 58

X  
8797

Mag  
Δ 8796

1300 N

X<sup>98</sup>

X<sup>99</sup>

Short

X 8800

8801 CK 8796

Photos: 101-4134 Road  
4135 Short

3-1-12

210107

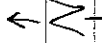
LM

AERO/D7

55° Sunny

COLESD

PNT 59



R.R.



8803



600

X04



8802

X05

1100 N

X8806

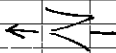
8807 CK 8802

Photos: 101-4136 Road

4137 Brush

8/73

PNT 60



Mus



8808

8809 X

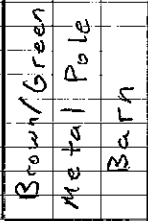


10

X8811



8812



CR6  
60  
1650E

8813 CK 8808

Photos: 101-4138 Road

4139 B206

3-1-12

2M

SSO Sunny

210107

AERO/D07

COLES D

↑  
N

PWT 61

CL504  
Δ

8814

8815 X

X 16

X 17

SOOSI

8818

Trees

8819 CK CL504

Photos: 101-4140 Road

4141 Trees

8/74

PWT 62

8825 X

8824 X

23 X

22 X

X 8821

Tee11

Marg

Δ

8820

8826 CK 8820

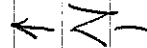
Photos: 101-4142 Road

4143 Tall

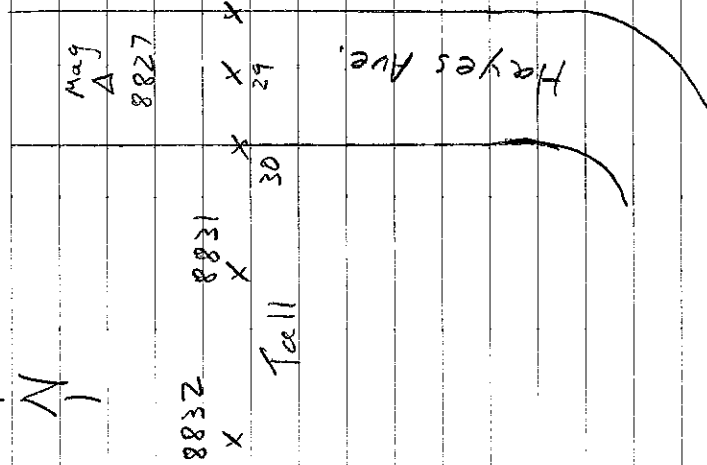


3-1-12  
LM  
55° Sunny

210107  
AERO/D7  
COIESD



PNT 63



8832 X  
8831 X  
Fall 30  
X 29  
X 8828

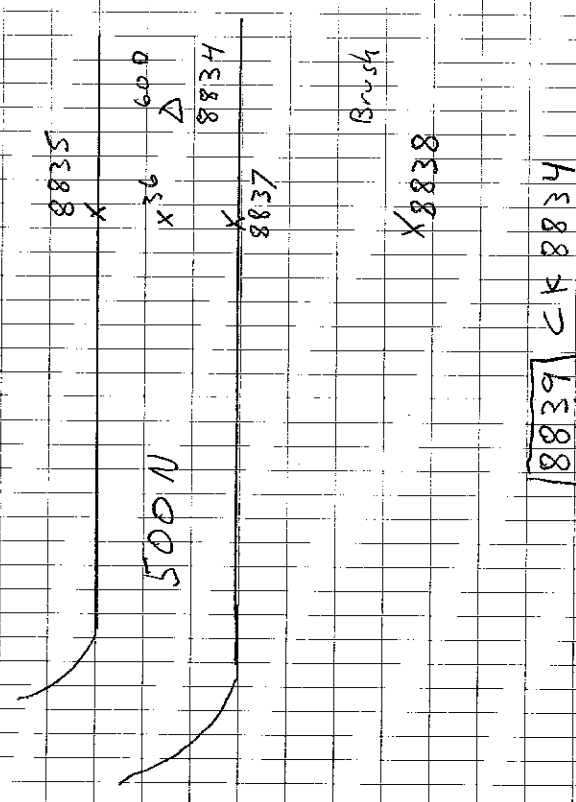
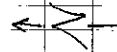
Hayes Ave.

8833 CK 8827

Photos: 101-4144 Road  
4145 Tall

8/75

PNT 64



8835 X  
X 36  
600 Δ  
8834 X  
8837 X

Brush

X 8838

8839 CK 8834

Photos: 101-4146 Road  
4147 Brush

8/76

PNT 66

White Metal  
horse barn

X 8850

X 8849

X 848

X

8847

GP P  
Δ  
8846

150 N

8851 CK 884

Photos: 101-4150 Road  
4151 8206

210107  
AERO 107  
COLESO

3-1-12  
LM  
60° sunny

PNT 65

Trees

42  
X

8841 X

X 8843

X 8844

Mag  
Δ

8840

1270 E

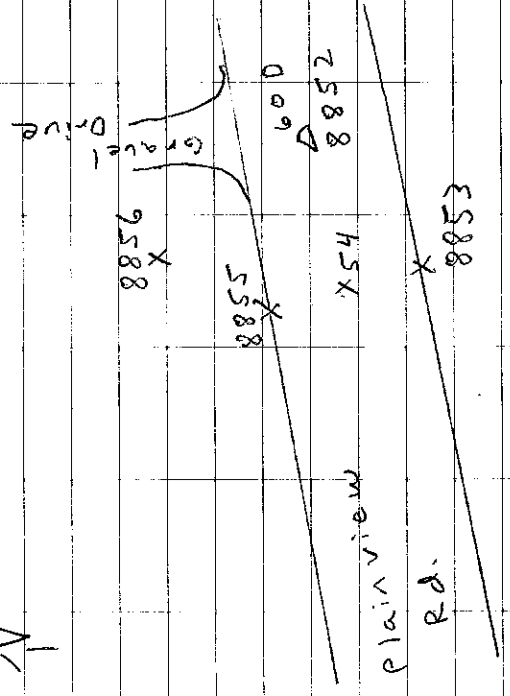
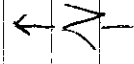
8845 CK 8840

Photos: 101-4178 Road  
4149 Trees

3-1-12  
LM  
60° Sunny

210107  
AEROVOT  
COZESD

PNT 67



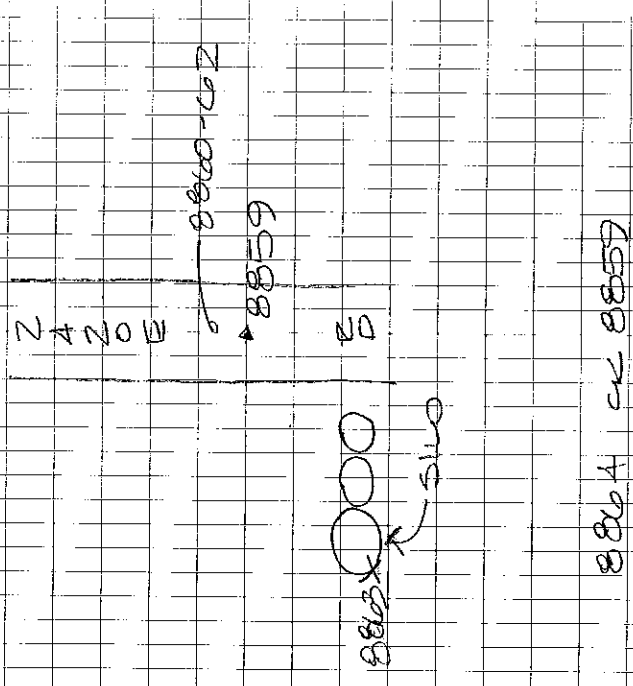
8857 CK 8852

Photos: 101-4152 Road  
4153 short

8/77

3/8/12  
(COVERED)

#89



8864 CK 8859

PHOTOS 101-4154 ROAD  
55 BUDG

3/2/12

2101107

COVES CO.

# 90

x 8869

8866-68

↑

N

|

x 8865

RD

8870 CK ~~8865~~

8865

PHOTOS 101-4156 ROAD

57 SHORT

8/78

#18

↑

x 8875

100N

x 8871

RD

8872-74

8876 CK 8871

8877 CK COL 01A

PHOTOS 101-4158 ROAD

59 FRESH

3/2/12

Z10107

CAVES CO.

#49

x 8883

350N ↗ 8879 RD

8880-82

x 8884

8878 ↙ ↙ 503

8885 ↙ ↙ 8879

PHOTOS 101-4160 ROAD

601 TRAIL (NW)

602 " (SE)

8/19

#70

x 8880

550N ↗ 8886 RD

8887-89

8881 ↙ ↙ 8886

PHOTOS 101-4163 ROAD

604 STREET

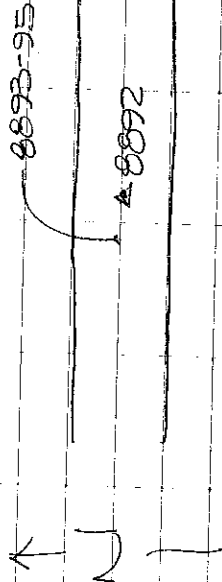
8/80

3/2/22

210107

Garrett Co.

#100



X 8896

8897 CK 8892

PHOTOS 101 - ALCO ROAD

660 ~~START~~

# CURVE TABLES

## HOW TO USE CURVE TABLES

Table I. contains Tangents and External to a 1° curve. Tan. and Ext. to any other radius may be found nearly enough, by dividing the Tan. or Ext. opposite the given Central Angle by the given degree of curve. To find Deg. of Curve, having the Central Angle and Tangent: Divide Tan. opposite the given Central Angle by the given Tangent. To find Deg. of Curve, having the Central Angle and External: Divide Ext. opposite the given Central Angle by the given External. To find Nat. Tan. and Nat. Ex. Sec. for any angle by Table I.: Tan. or Ext. of twice the given angle divided by the radius of a 1° curve will be the Nat. Tan. or Nat. Ex. Sec.

### EXAMPLE

Wanted a Curve with an Ext. of about 12 ft. Angle of Intersection or I. P. = 23° 20' to the R. at Station 542+72.

Ext. in Tab. I opposite 23° 20' = 120.87  
 120.87 ÷ 12 = 10.07. Say a 10° Curve.

Tan. in Tab. I opp. 23° 20' = 1183.1  
 1183.1 ÷ 10 = 118.31.

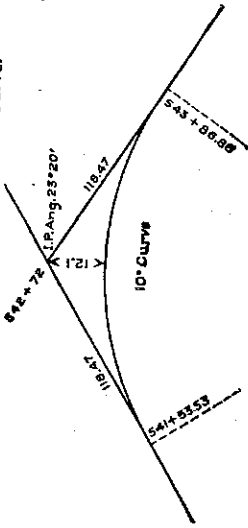
Correction for A. 23° 20' for a 10° Cur. = 0.16  
 118.31 + 0.16 = 118.47 = corrected Tangent.

(If corrected Ext. is required find in same way)

2° 19½' = def. for sta.	542	I. P. = sta.	542+72
4° 49½' = " " "	+50	Tan. =	1. 18.47
7° 19½' = " " "	543	B. C. = sta.	541+53.53
9° 49½' = " " "	+50	L. C. =	2. 33.33
11° 40' = " " "	543+	E. C. = Sta.	543+86.86

100 - 53.53 = 46.47 X 3/2 (def. for 1 ft. of 10° Cur.) = 139.41' =  
 2° 19½' = def. for sta. 542.

Def. for 50 ft. = 2° 30' for a 10° Curve.  
 Def. for 36.86 ft. = 1° 50½' for a 10° Curve.



210107

AERO 107

COLES CO.

JOB = COLES B, UNIT B

PNT 71

2600E

6638-6640 ROAD

6641 BRUSH

6642 CK 6637

△  
6637

2050N

PIC 132-1650 ROAD

075

132-1651 BRUSH

076

38/6

PNT 72

6644-6646

ROAD

6647-6648

TALL

6649 CK 6643

△  
6643

PIC 132-1652

077

ROAD TALL

078

210107  
AERO/D7

PNT-73

6651-6653 ROAD  
6654 WOODS  
6655 CK 6650

Pic 132-6654 ROAD  
132-6655 WOODS

6650 Δ

x

079  
080

39/c

PNT-74

6657-6659 ROAD

6660- BLDG

6661 CK 6656

6654 Δ

x

Pic  
132-6656 ROAD 081  
132-6657 BLDG 082

→ 40.2



20107  
AERO / D7

PNT 76

X  
BRUSH

2706 E

6668 Δ 1200N

6669 - 6670 ROAD  
6671 BRUSH  
6672 CR 6666

PIC 132-1660 ROAD  
1661 BRUSH

085  
086

402 →

→ 411

406

PNT 75

X GRASS

1350N Δ 6662

6663 - 6665 ROAD  
6666 SHEET  
6667 CR 6662

PIC 132-1658 ROAD  
1659 SHEET

083  
084

2700 E

391 →

→ 401

210117  
AERO / D7

PNT 77

6675-6677  
ROAD

6678-6679  
TALL

6680 CK 6674

PIC 132-1662 ROAD 087  
132-1663 TALL 088

461 →

PNT 78

TO 49

990N  
6682 Δ

6683-6685 ROAD

6686 WOODS

6687 CK 6682

132-1664 ROAD 089  
132-1665 WOODS 090

→

→

41/6

210107  
AERO/D7

PNT 80

6688

X SHORT

6689-6691

ROAD

6692 SHORT

6693 CK 6688

750N

2600

PIC 132-666  
- 667

ROAD 091  
SHORT 092

N

42/6

PNT 79

866N

2420E

6694

6695-6697

ROAD

6698 BLDG

6699 CK

6694

PIC 132-668 ROAD

132-669 BLDG

093  
094

LAST

N

X

210107

AERO / D-7

COLES B

PNT 81N

2250 E

720 N

Δ 6700

6701 - 6703 ROAD

6704 BRUSH

6705 CK 6700

PIC 132 - 1672 ROAD

1673 BRUSH

PIC 097  
098

43/c

PNT 82

X

Δ 6706

850 N

6707 - 6709 ROAD

6710 - 6711 TALL

6712 CK 6706

8088

PIC 132 - 1674 ROAD

1675 TALL

099  
098

210107  
AERO / D7

PNT 83

N  
A

2100E

6715-6717 ROAD

6718 WOODS

6719 CK 6713

A  
6713

670N

x

PIC 132- 1676 ROAD 101  
132- 1677 WOODS 102

446

PNT-84

600N

N  
A

2300E

6721-6723

ROAD

6724 BLDG

6725 CK 6720

Δ

6720

x

PIC 132- 1678 ROAD 103  
132- 1679 BLDG 104

210107  
AERO / D-7

PWT 85  
470N

N

2000E

6727-6729 ROAD

6730 SHORE

6731 CK 6726

Δ  
6726

PIC 132-1680 ROAD 105  
132-1681 SHORE 106

45/6

PWT 86  
N

6733-6735 ROAD

6736 BRUSH

6737 CK 6732

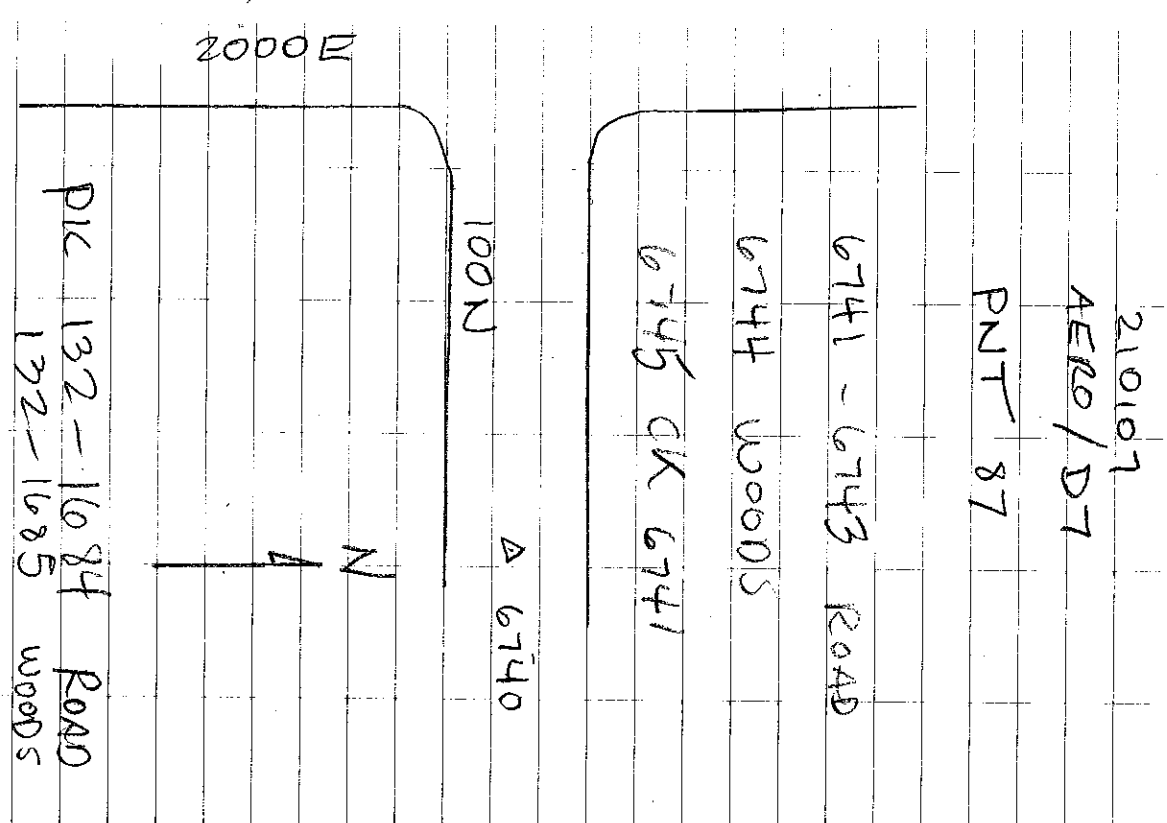
300N Δ 6732

X

PIC 132-1682 ROAD 107  
132-1683 BRUSH 108

1920

K



210107

AERO/D7

PNT 87

6741 - 6743 ROAD

6744 WOODS

6745 CK 6741

1000 N

Δ 6740

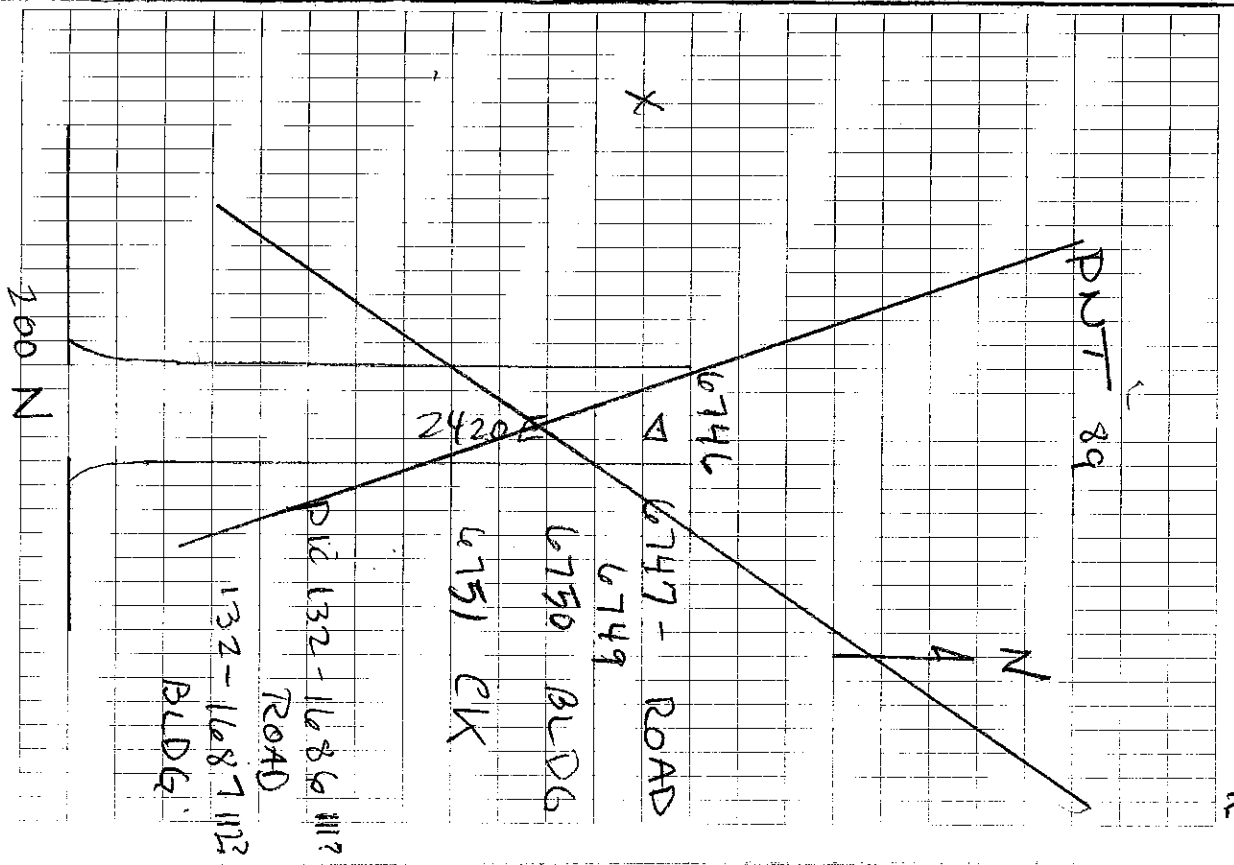
N

P1C 132-1684 ROAD

132-1685 WOODS

109  
110

466



PNT 89

6746

Δ 6747 - ROAD

6749

6750 BLDG

6751 CK

2420

P1C 132-1686 BLDG

132-1687 BLDG

200 N

N

K

210107

AERO / D7

PNT 88

6758-6760 ROAD

6761-6762

TALL

6763 CK 6757

2300E

300N

△ 6757

152  
116

Pic 132-1690  
132-1691

~~116~~

47/c

PNT 91

6765-6767

ROAD

6768 BLDG

6769 CK 6764 X

△ 6764

1200N

Pic 132-1692

ROAD 117  
132-1693 118

BLDG

N



210107  
AERO / D7

PNT: 92

1550 N

6771-6773

ROAD

6774-6775

TALL

6776 CR 6770

2230 E

A

6770

X

N

PIC 132- 1694 119  
132- 1695 120

48/C

PNT: 93

6778-6780 ROAD

6781 BRUSH

6782 CR 6777

2300 E

A

1700 N

6777

X

N

PIC 132- 1696 ROAD 121  
1697 BRUSH 122

6783 LAST

210107

AERO 157

COLESB

PWT 94

67847

133

49/c

PWT 95

6791-6793

ROAD

6794 SHORT

6795 CLK 6790

6785-6787

ROAD

6788 WOODS

6789 CLK -

6785

6784

Δ

6790

PIC 132-1700

ROAD

132-1701

SHORT

2300E

2350E

LINCOLN

x PIC 132-1698

x 132-1699

125  
126

+

210107  
AERO / D7

PNT 96

1950 E

6797 - 6799 ROAD  
6800 - 6801 TALL  
6802 CK 6796

6796 Δ 1800 N

x

PIC 1322 - 1702 ROAD  
1322 - 1703 TALL

127  
128

596

PNT 97

2000 E

x

Δ 6803

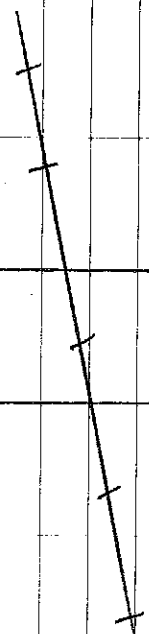
PIC 1322 - 1704 ROAD  
1322 - 1705 BLDG

129  
130

210107.

AERO 107

PNT 98



6810-6812

ROAD

6809

Δ

6813 BRUSH

6814 CK 6809

PIC 132-1706

ROAD

W  
0  
88  
88

132-1707

BRUSH

131

132

5/6

PNT 99

6815  
Δ

6816-6818  
ROAD  
WOODS  
6819  
6820 CK 6815

1320 N

PIC 132-1708  
ROAD  
TREES  
1709

133  
134