



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/7/16 TIME: 1414 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-01

STATE: Florida LATITUDE: 28°15'30.45167"N LONGITUDE: 81°16'52.51675"

ADDRESS and/or INTERSECTION: FLORIDA AVE AND E. LAKE SHORE BLVD. CRABBY BILL'S ENTRANCE TO

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

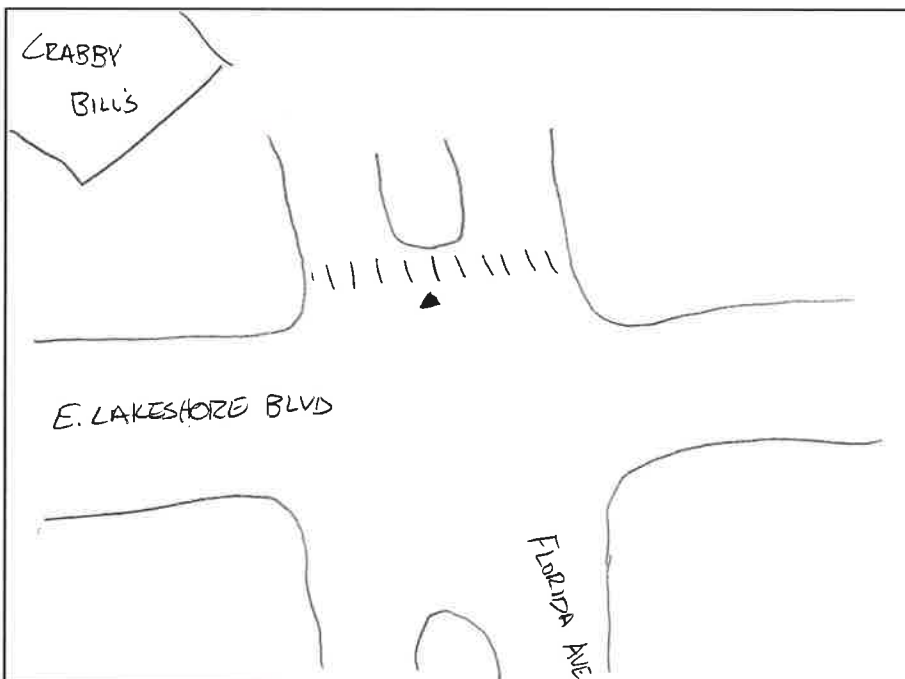
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/8/16 TIME: 0736 AM/PM

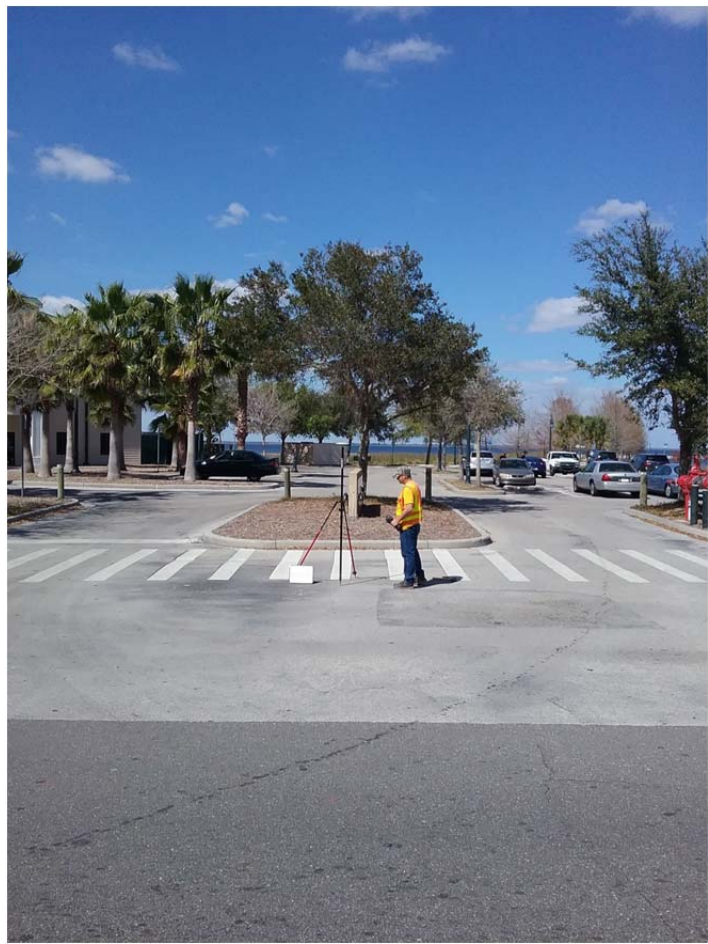
RE-CHECK PT. NUMBER: NVA-01 CHK



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISK REF 7137





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/7/16 TIME: 1515 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-02

STATE: Florida LATITUDE: 28°17'51.52708" LONGITUDE: 81°14'19.57648"

ADDRESS and/or INTERSECTION: N. NARCOOSSEE RD AND JONES RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

- ☒ Non-Vegetated Vertical Accuracy (NVA-#)
- ☐ Vegetated Vertical Accuracy (VVA-#)

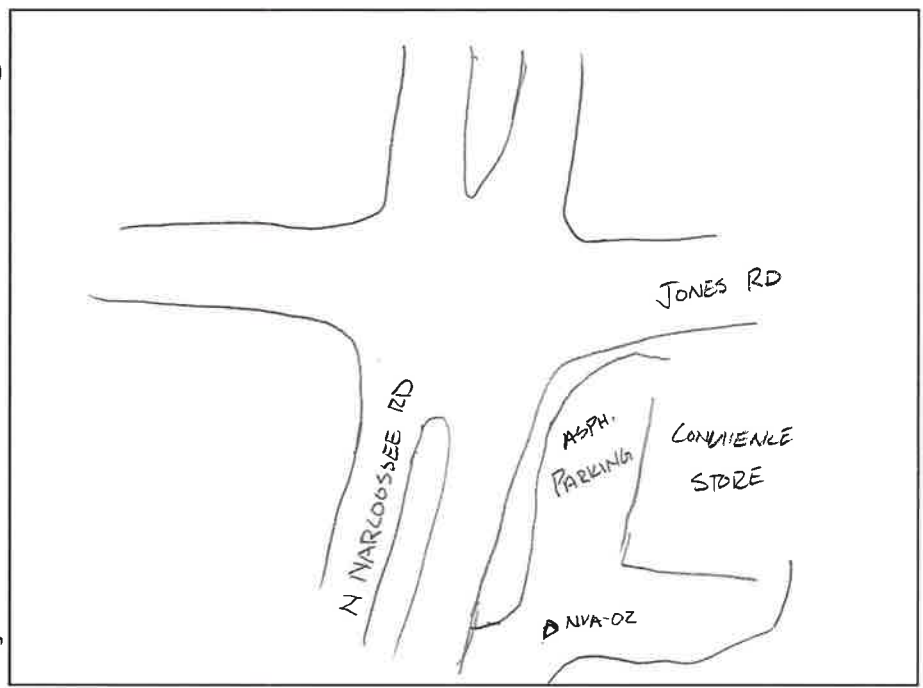
PICTURES:

☐ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/8/16 TIME: 0903 AM/PM

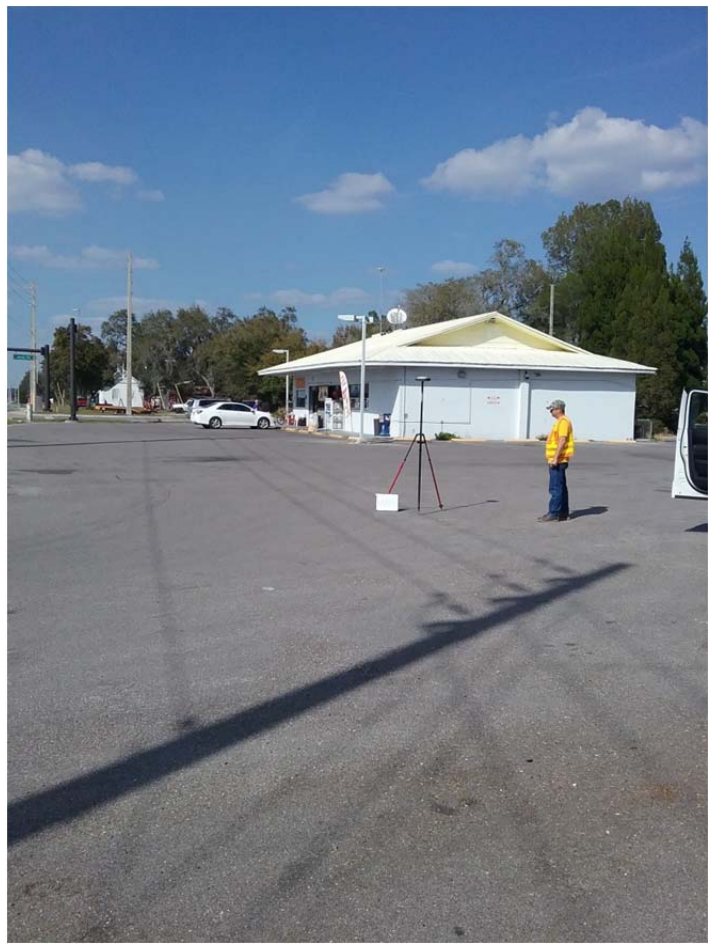
RE-CHECK PT. NUMBER: NVA-02 CHK



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC 137



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/7/16 TIME: 1545 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-03

STATE: Florida LATITUDE: 28°20'52.43226" LONGITUDE: 81°14'02.35949"

ADDRESS and/or INTERSECTION: BOGGY CREEK RD. AND N. NARCOOSSEE RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

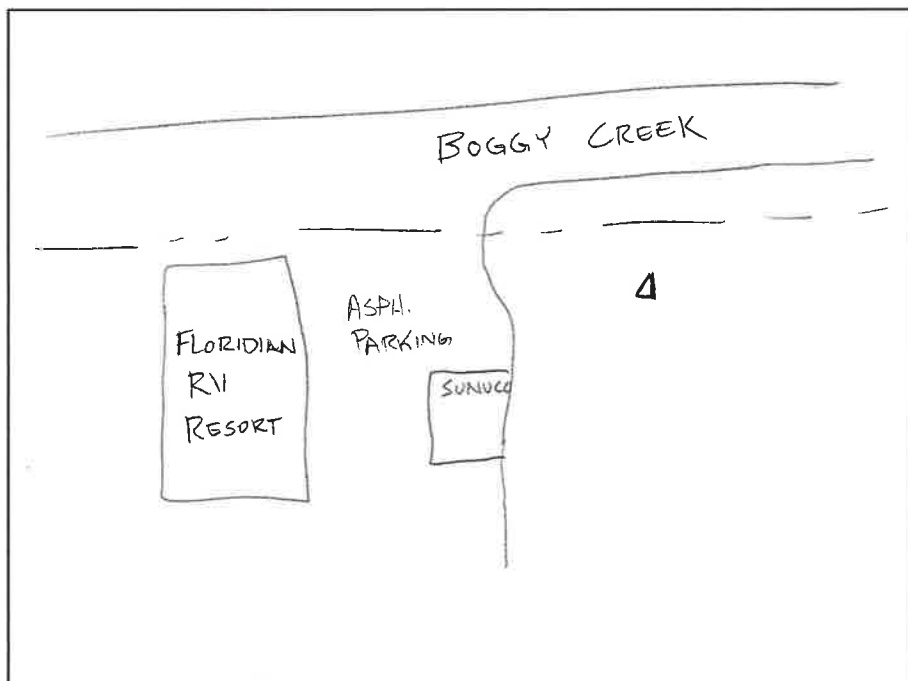
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/8/16 TIME: 0933 AM/PM

RE-CHECK PT. NUMBER: NVA-03



SKETCH AREA

DESCRIPTION OF POINT:

60-D NAIL IN GRASS





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/7/16 TIME: 1611 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-04

STATE: Florida LATITUDE: 28° 20' 01.36975 LONGITUDE: 81° 11' 55.68928

ADDRESS and/or INTERSECTION: CYRILS RD AND ABSHER RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

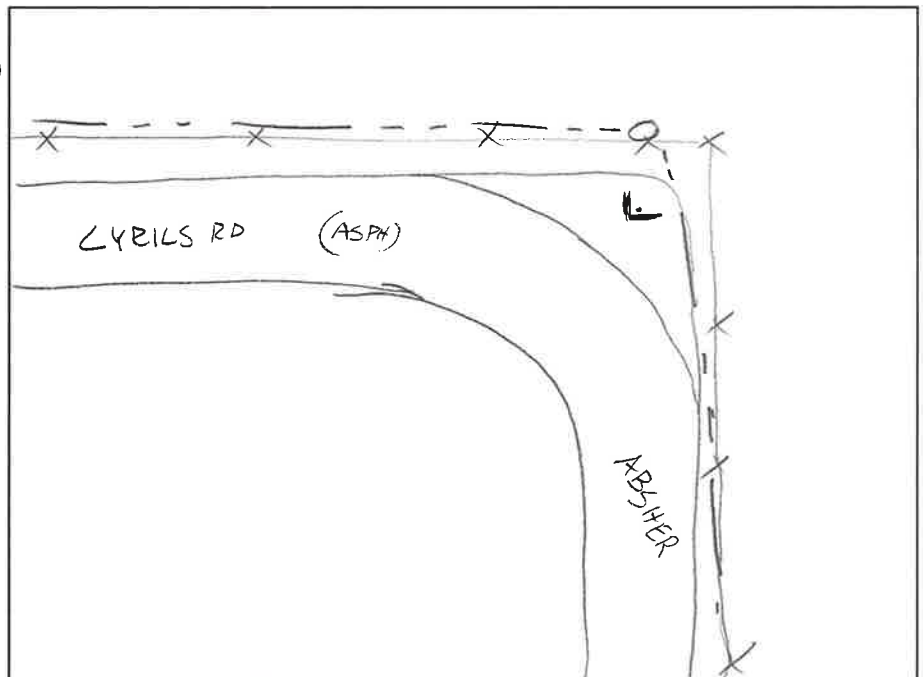
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/8/16 TIME: 0949 AM/PM

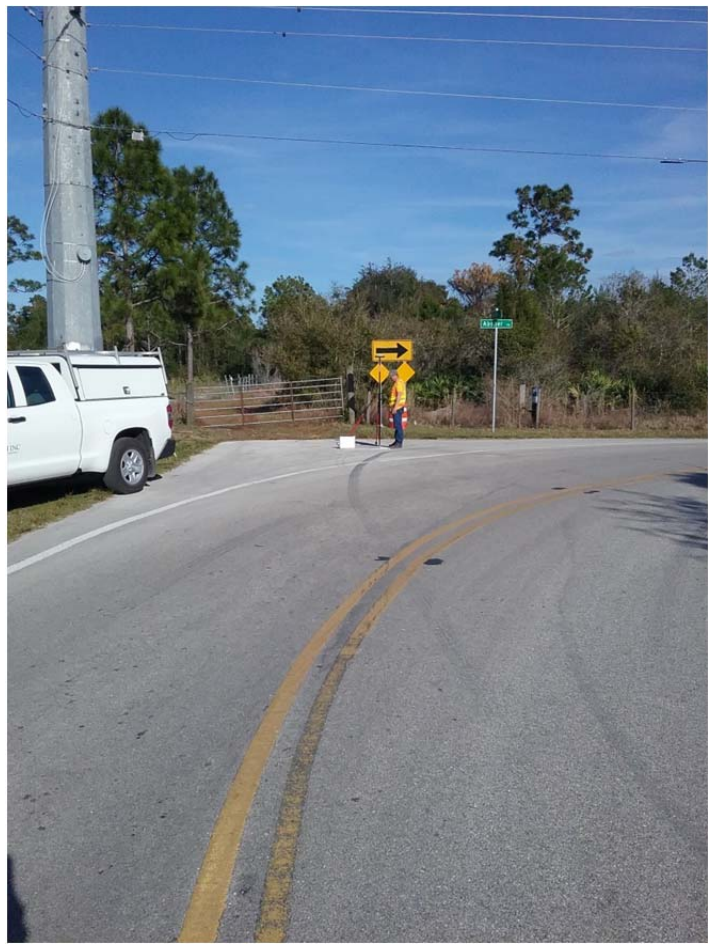
RE-CHECK PT. NUMBER: NVA-04



SKETCH AREA

DESCRIPTION OF POINT:

NAIL + DISC IN TARGET





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/6/16 TIME: 1651 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-05

STATE: Florida LATITUDE: 28°12'34.21488" LONGITUDE: 81°13'53.55681

ADDRESS and/or INTERSECTION: ALLIGATOR LAKE AND VEST RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

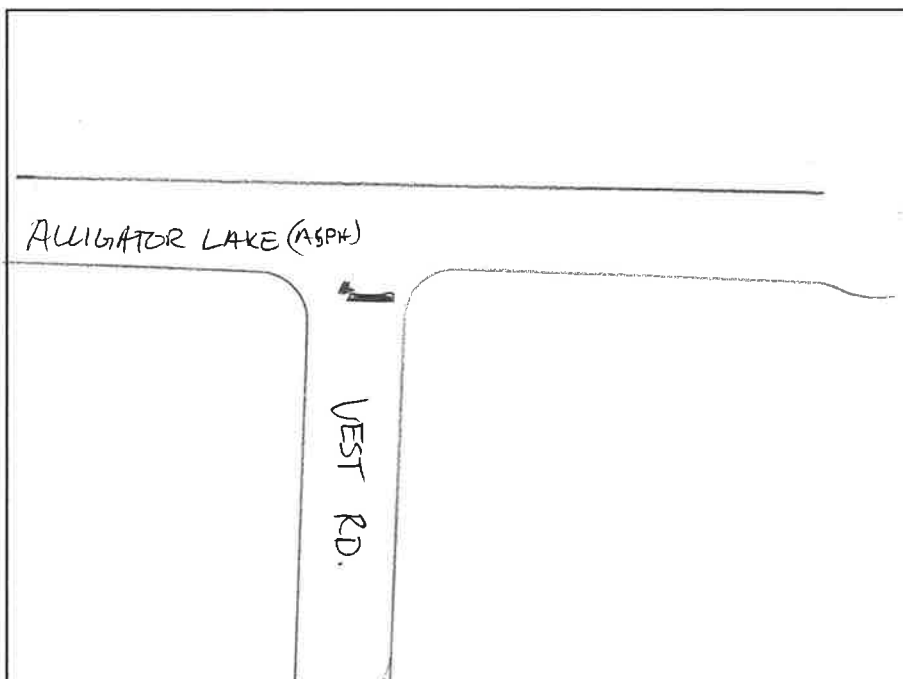
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/8/16 TIME: 1014 AM/PM

RE-CHECK PT. NUMBER: NVA-05 CHK
104 .075



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC @ NW CORNER OF STOP BAR





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/8/16 TIME: 1157 AM/PM EMPLOYEE NAME: Milo Kolberg
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-06 PT. 1025
 STATE: Florida LATITUDE: 28°15'06.77554 LONGITUDE: 81°10'45.21093"
 ADDRESS and/or INTERSECTION: WELLE CT CENTER OF CUL-DE-SAC

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
 PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
 PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

- ☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

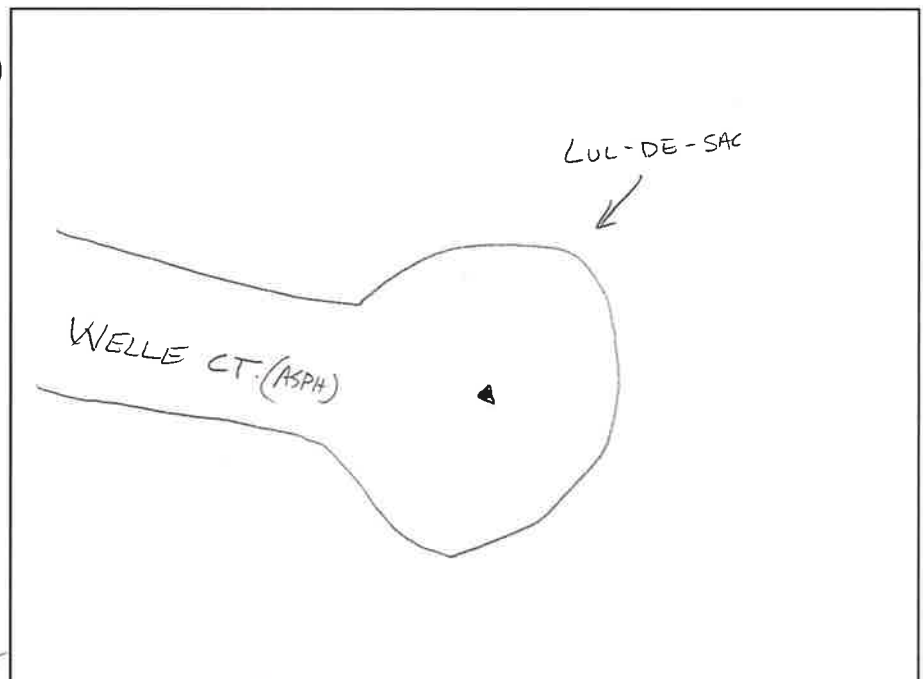
PICTURES:

- ☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/9/15 TIME: 1058 AM/PM

RE-CHECK PT. NUMBER: NVA-06 CHK
 PT. 1025



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/8/16 TIME: 1300 AM/PM EMPLOYEE NAME: Milo Kolberg
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-07 P1027
 STATE: Florida LATITUDE: 28°12'56.80651" LONGITUDE: 81°07'18.88289"
 ADDRESS and/or INTERSECTION: OLD MELBOURNE HWY AT DEAD END

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
 PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
 PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

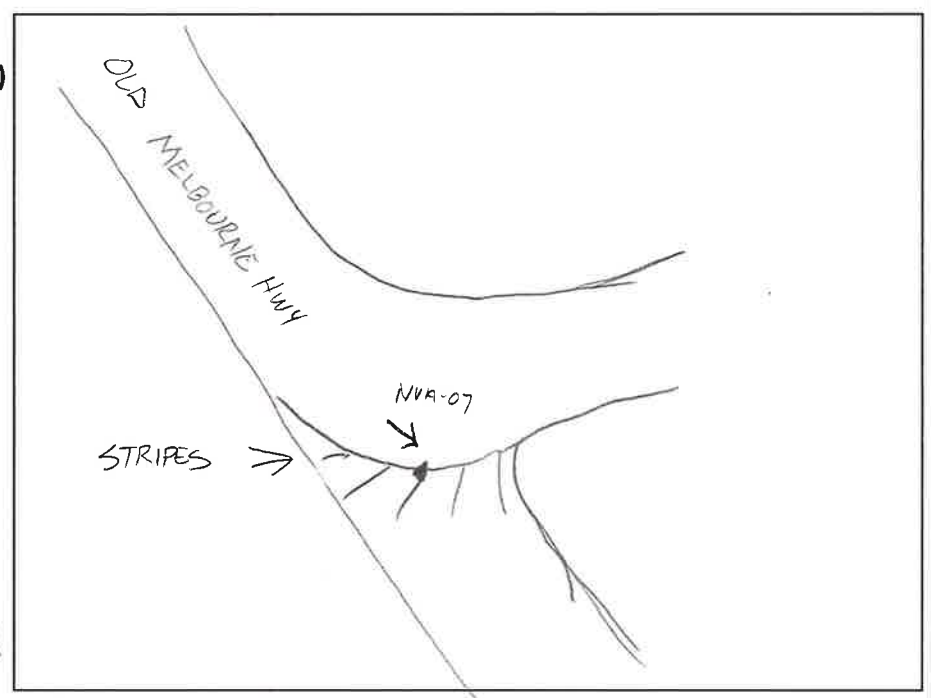
☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☐ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/9/16 TIME: 0951 AM/PM
 RE-CHECK PT. NUMBER: NVA-07 CHK



SKETCH AREA

DESCRIPTION OF POINT:

NAIL DKL ON STRIPE



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/9/16 TIME: 1440 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-08 1054

STATE: Florida LATITUDE: 28°20'42.63915" LONGITUDE: 80°55'30.15265

ADDRESS and/or INTERSECTION: NOVA RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

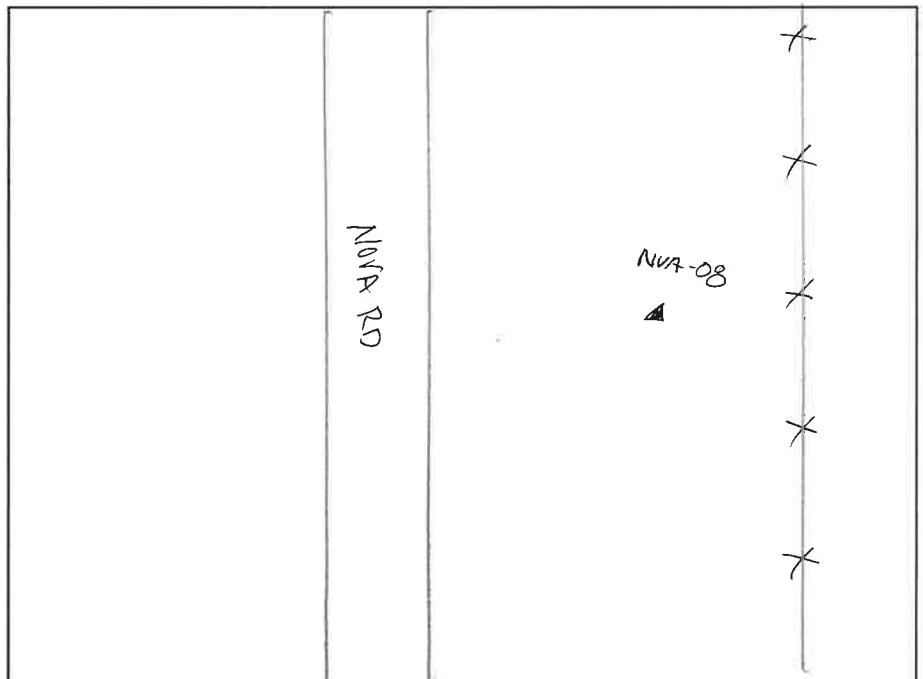
POINT RE-CHECK:

DATE: 3/10/16 TIME: 0947 AM/PM

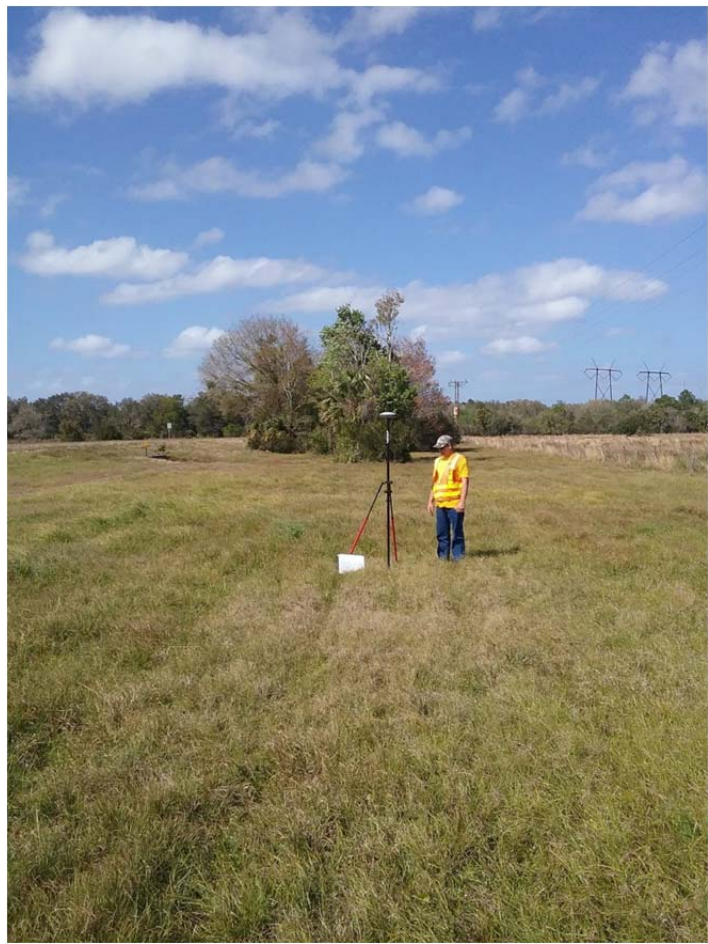
RE-CHECK PT. NUMBER: NVA-08 CHK
PT1065

DESCRIPTION OF POINT:

60-D NAIL



SKETCH AREA





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/8/16 TIME: 1437 AM/PM EMPLOYEE NAME: Milo Kolberg
JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-09 R-1029
STATE: Florida LATITUDE: 28°12'44.82804" LONGITUDE: 81°17'34.13815"
ADDRESS and/or INTERSECTION: 2903 CANOE CREEK RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN
☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM
☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

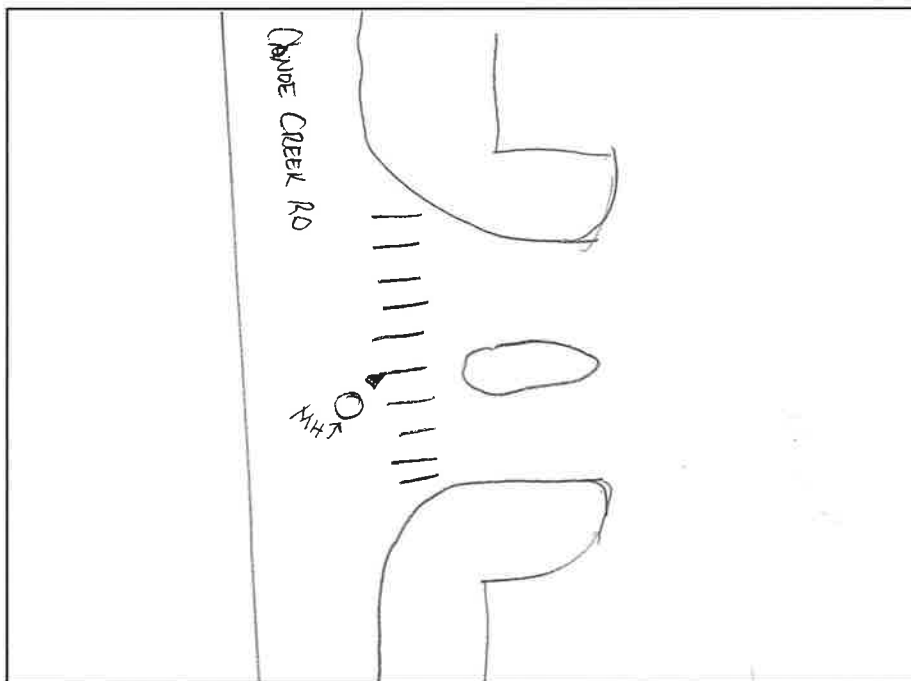
☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/9/16 TIME: 0834 AM/PM
RE-CHECK PT. NUMBER: NVA-09 CHK
PT 1040



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC ON CROSSWALK STRIP





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/8/16 TIME: 1502 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-10 PT 1030

STATE: Florida LATITUDE: 28°10'24.77747" LONGITUDE: 81°17'53.92960"

ADDRESS and/or INTERSECTION: FRIARS COVE RD AND ESPRIT LN

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

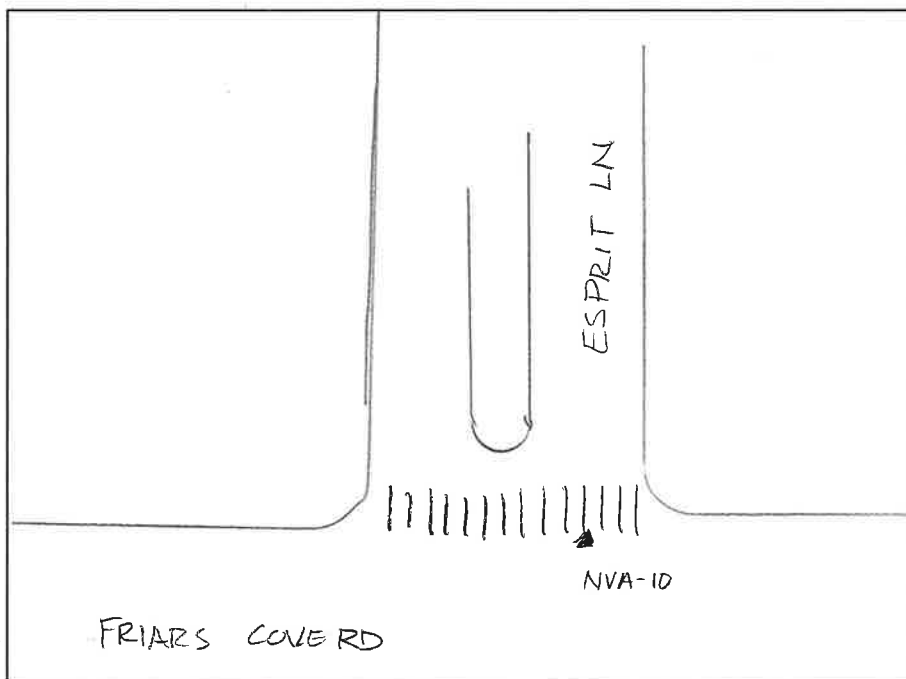
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/9/16 TIME: 0852 AM/PM

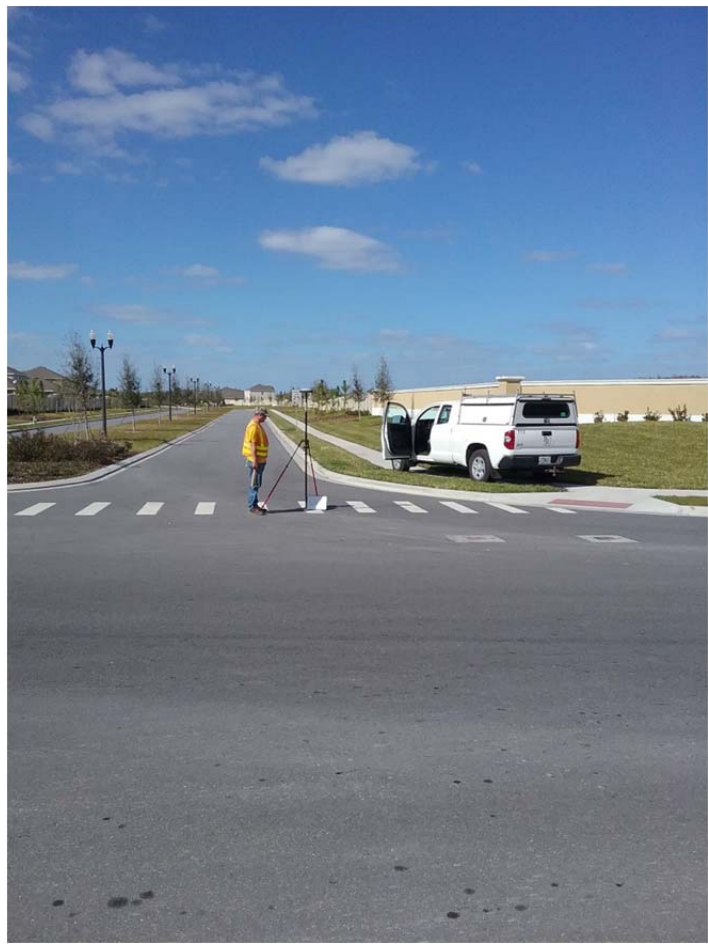
RE-CHECK PT. NUMBER: NVA-10 CHK
PT. 1041



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC ON CROSS WALK STRIP





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/8/16 TIME: 1540 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-11 PT. 1037

STATE: Florida LATITUDE: 28°13'02.17416" LONGITUDE: 81°20'24.89097"

ADDRESS and/or INTERSECTION: AT THE END OF CLAY WHALEY RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

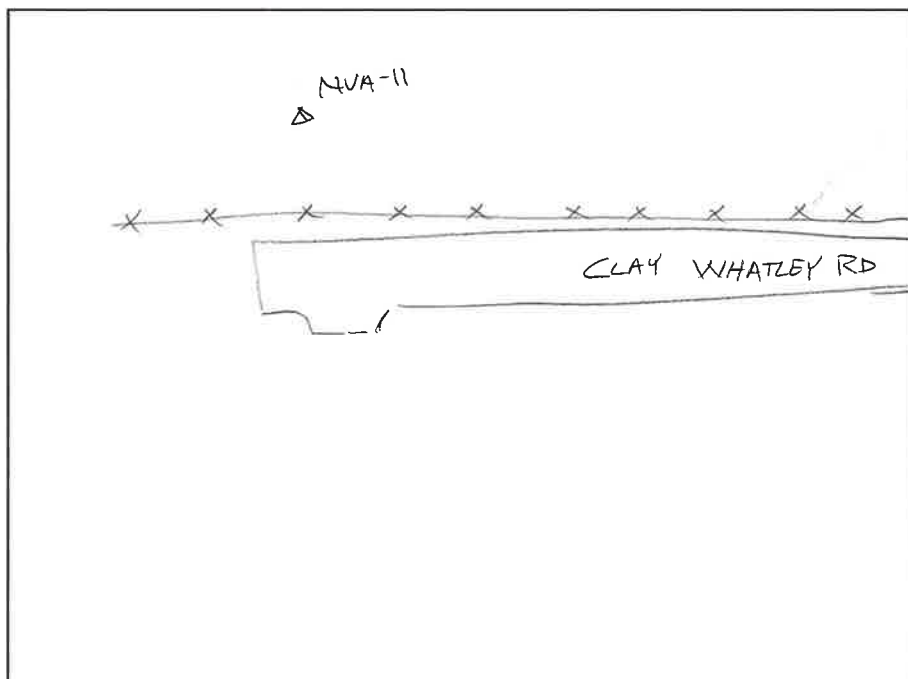
POINT RE-CHECK:

DATE: 3/9/16 TIME: 0730 AM/PM

RE-CHECK PT. NUMBER: NVA-11 1037

DESCRIPTION OF POINT:

100-D NAIL



SKETCH AREA





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/8/16 TIME: 1646 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-12 Pt. 1033

STATE: Florida LATITUDE: 28° 11' 55.50149" LONGITUDE: 81° 22' 33.41518

ADDRESS and/or INTERSECTION: END OF TOHOPEKALIGA DRIVE

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

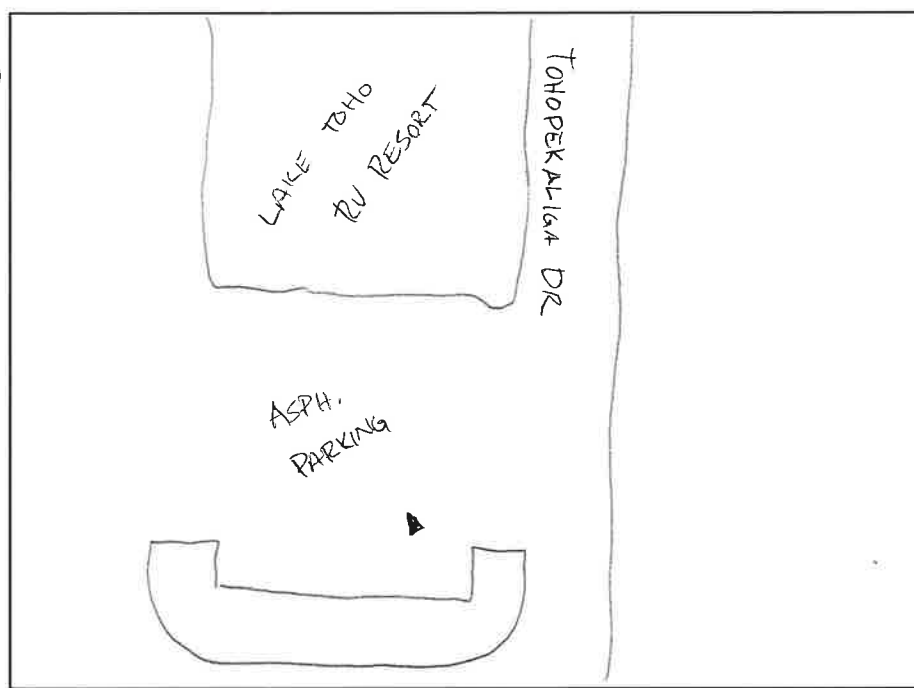
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/9/16 TIME: 0750 AM/PM

RE-CHECK PT. NUMBER: NVA-12CHK
Pt. 1033



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISK





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/12/16 TIME: 1323 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-13 PT 1098

STATE: Florida LATITUDE: 28°05'30.95389" LONGITUDE: 80°52'37.10185"

ADDRESS and/or INTERSECTION: SPACE COAST Rwy

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

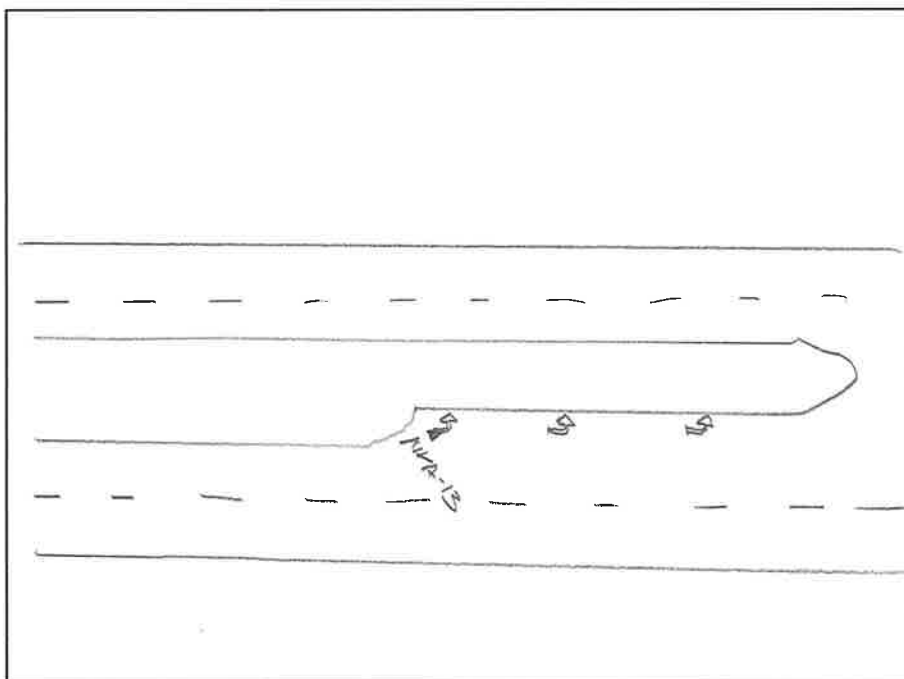
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/13/16 TIME: 1047 AM/PM

RE-CHECK PT. NUMBER: NVA-13 CHK
#1113



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISK IN CORNER TURN ARROW





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/12/13 TIME: 1358 AM/PM EMPLOYEE NAME: Milo Kolberg
JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-14 Pt 1100
STATE: Florida LATITUDE: 28°07'05.9165" LONGITUDE: 80°56'15.87104"
ADDRESS and/or INTERSECTION: SPACE COAST PRKY

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS
☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM
☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

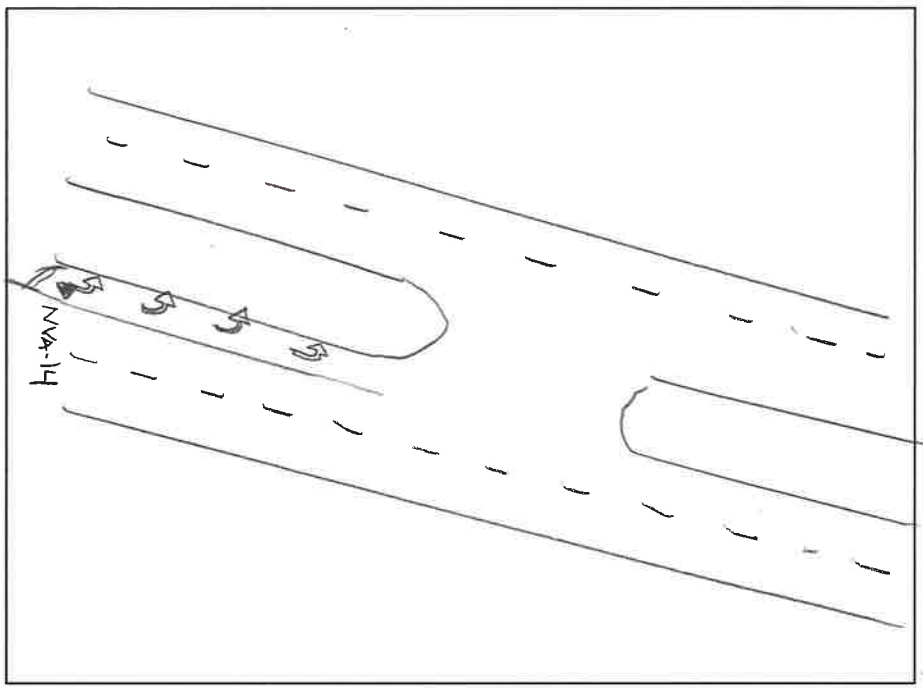
☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/13/14 TIME: 1103 AM/PM
RE-CHECK PT. NUMBER: NVA-14 CHK
Pt 1115



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND PISK ON TURN ARBUN





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/12/16 TIME: 1422 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-15 P1101

STATE: Florida LATITUDE: 28°07'37.67330" LONGITUDE: 80°53'47.23767"

ADDRESS and/or INTERSECTION: DEER PARK RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

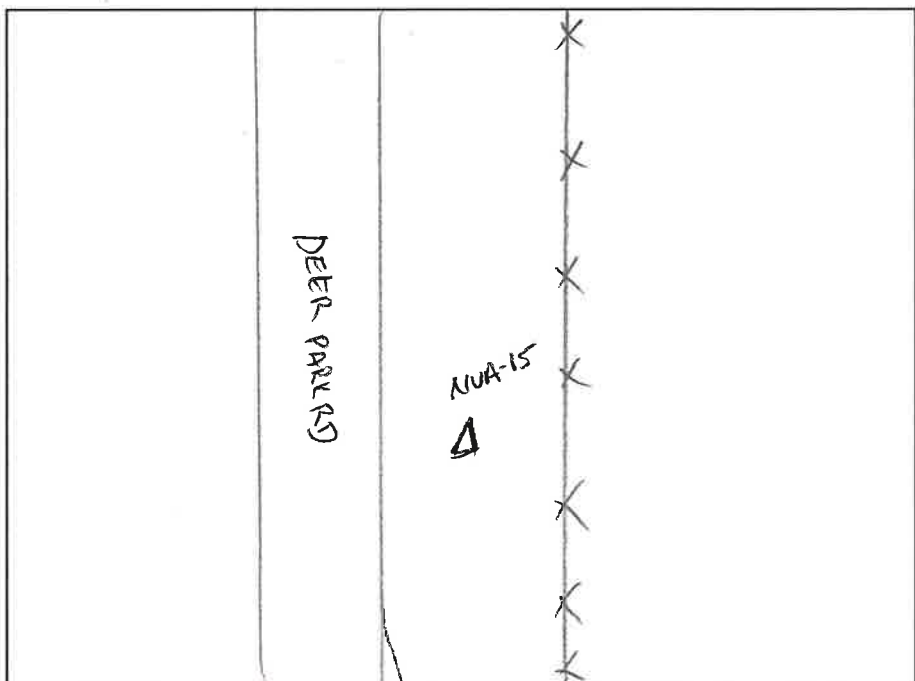
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/13/16 TIME: 1035 AM/PM

RE-CHECK PT. NUMBER: NVA-15 CHK
P1112



SKETCH AREA

DESCRIPTION OF POINT:

60-D NAIL





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/13/16 TIME: 1307 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-16 Pt 1119

STATE: Florida LATITUDE: 28°08'02.0884" LONGITUDE: 81°05'01.83252"

ADDRESS and/or INTERSECTION: 8801 COMMUNITY CENTER RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

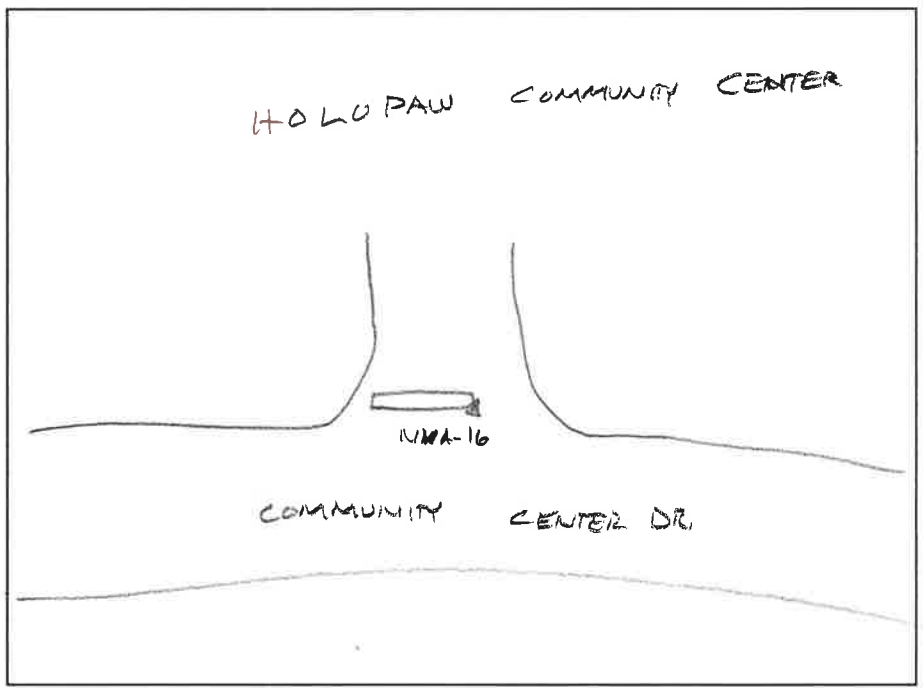
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/14/16 TIME: 0829 AM/PM

RE-CHECK PT. NUMBER: NVA-16 CHK
PT 1131



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC IN STOP BAR





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/13/16 TIME: 1327 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-17 PT 1120

STATE: Florida LATITUDE: 28°10'07.42643" LONGITUDE: 81°07'36.80346'

ADDRESS and/or INTERSECTION: HWY 192

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

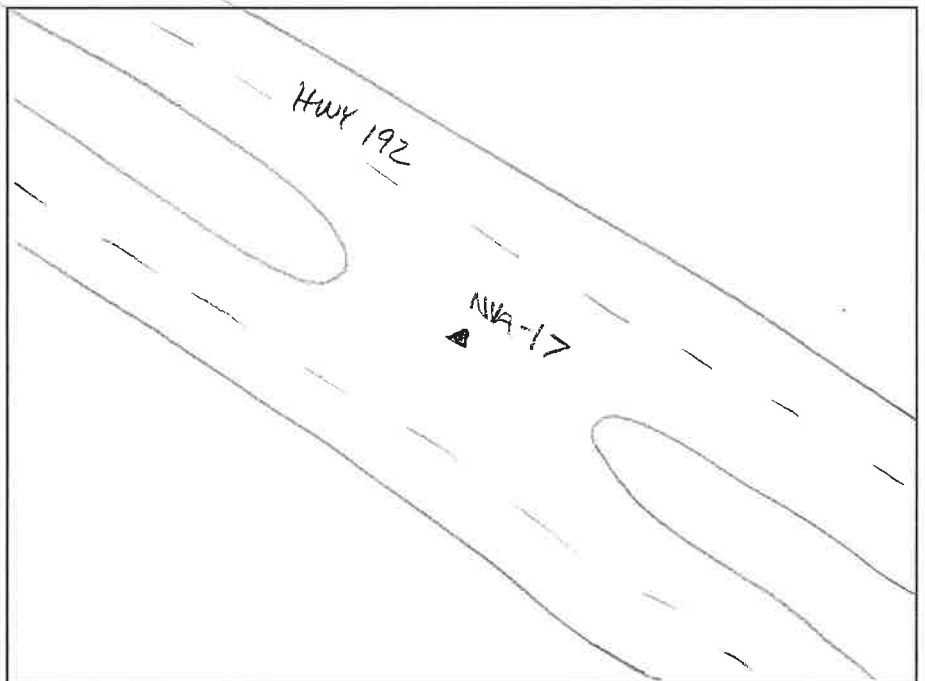
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/14/16 TIME: 0755 AM/PM

RE-CHECK PT. NUMBER: NVA-17 CHK
PT 1128



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DIST CENTER OF TURN AROUND





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CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/14/16 TIME: 1344 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-18 PT. 1140

STATE: Florida LATITUDE: 28°02'19.14434" LONGITUDE: 81°02'44.76975"

ADDRESS and/or INTERSECTION: N. KENANSVILLE RD AND ALLEN'S LN

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

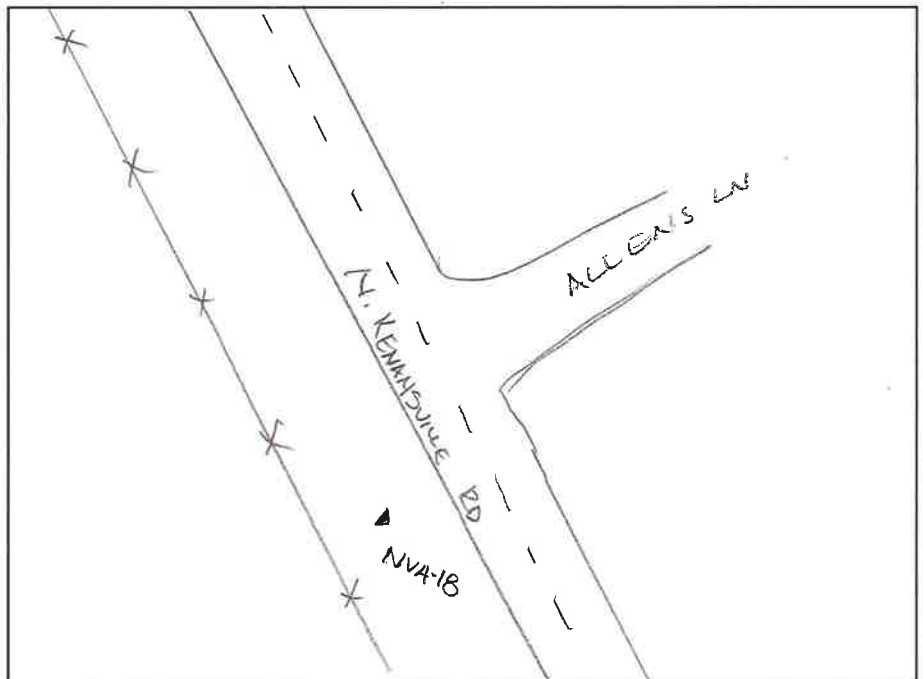
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/15/16 TIME: 0916 AM/PM

RE-CHECK PT. NUMBER: NVA-18 CHK
PT. 1150



SKETCH AREA

DESCRIPTION OF POINT:

60-D NAIL



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/14/16 TIME: 1450 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-19 Pt 1143

STATE: Florida LATITUDE: 27°57'12.91900" LONGITUDE: 81°00'02.38971"

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

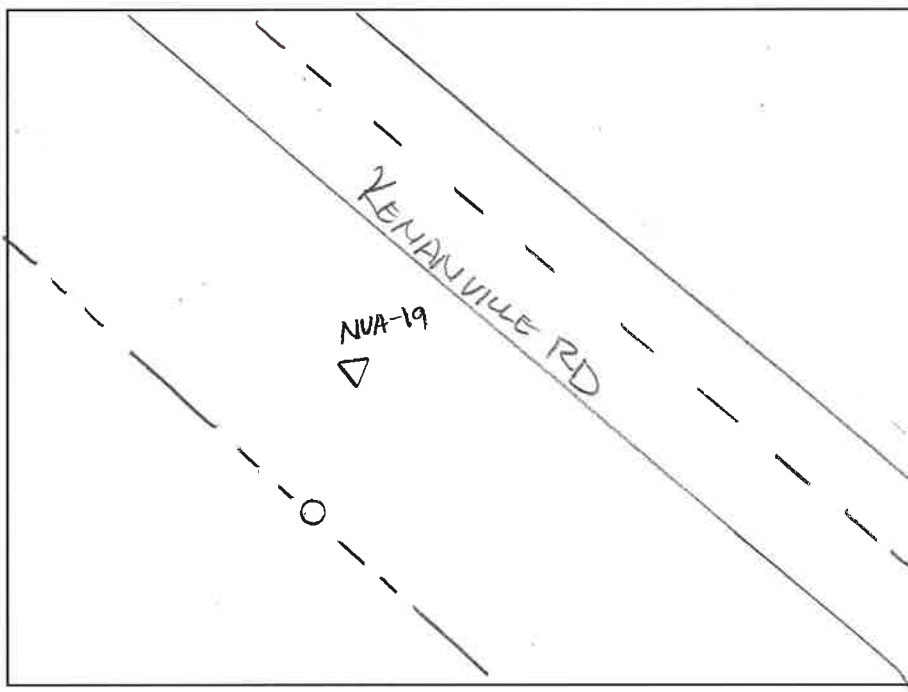
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/15/16 TIME: 1000 AM/PM

RE-CHECK PT. NUMBER: NVA-19 CHK
Pt 1153



SKETCH AREA

DESCRIPTION OF POINT:

60-D NAIL





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/11/16 TIME: 1412 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-20 PH087

STATE: Florida LATITUDE: 28°15'31.61562" LONGITUDE: 80°55'09.66567"

ADDRESS and/or INTERSECTION: DEER PARK RD

OBSERVATION METHOD:

☐ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

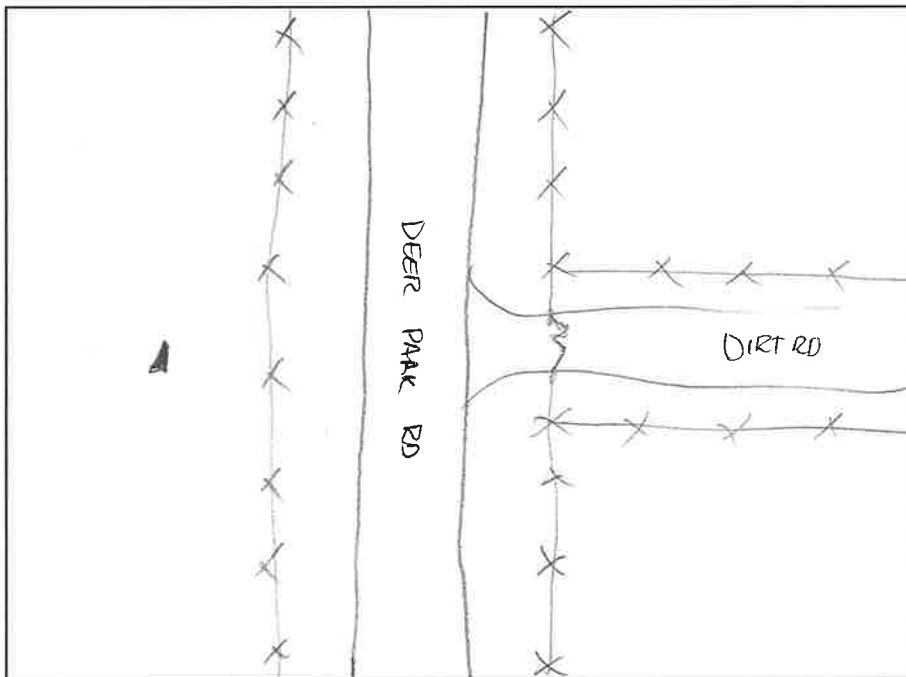
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/12/16 TIME: 0920 AM/PM

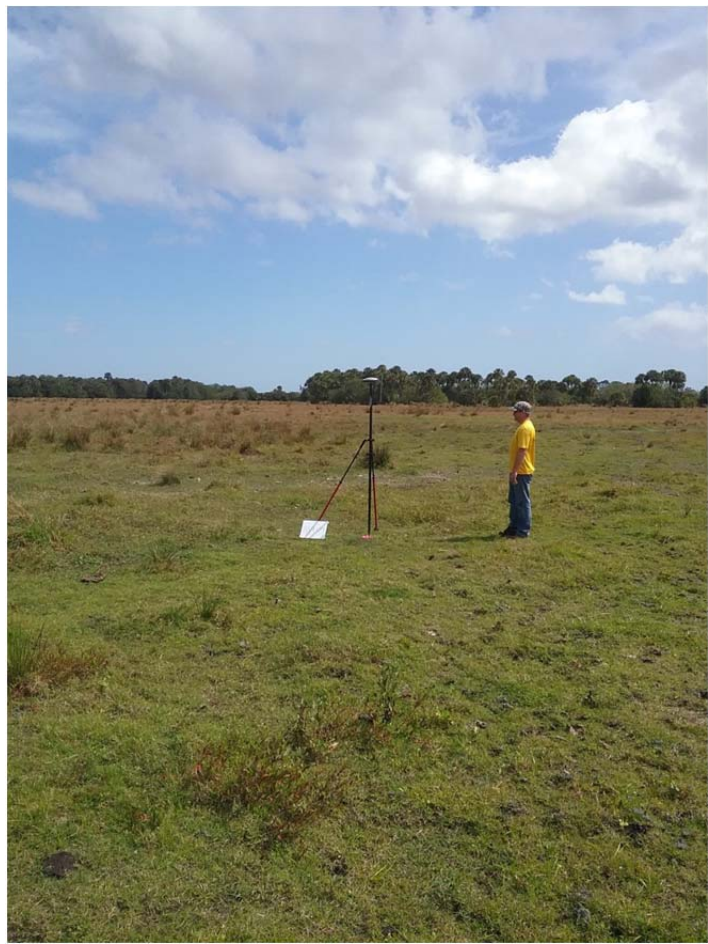
RE-CHECK PT. NUMBER: NVA-20CHK
PT 1094



SKETCH AREA

DESCRIPTION OF POINT:

60-D NAIL





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/14/16 TIME: 1538 AM/PM EMPLOYEE NAME: Milo Kolberg
JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-21 PT 1144
STATE: Florida LATITUDE: 27°54'41.41045" LONGITUDE: 80°59'45.23390
ADDRESS and/or INTERSECTION: N. KENANSVILLE RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS
☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM
☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

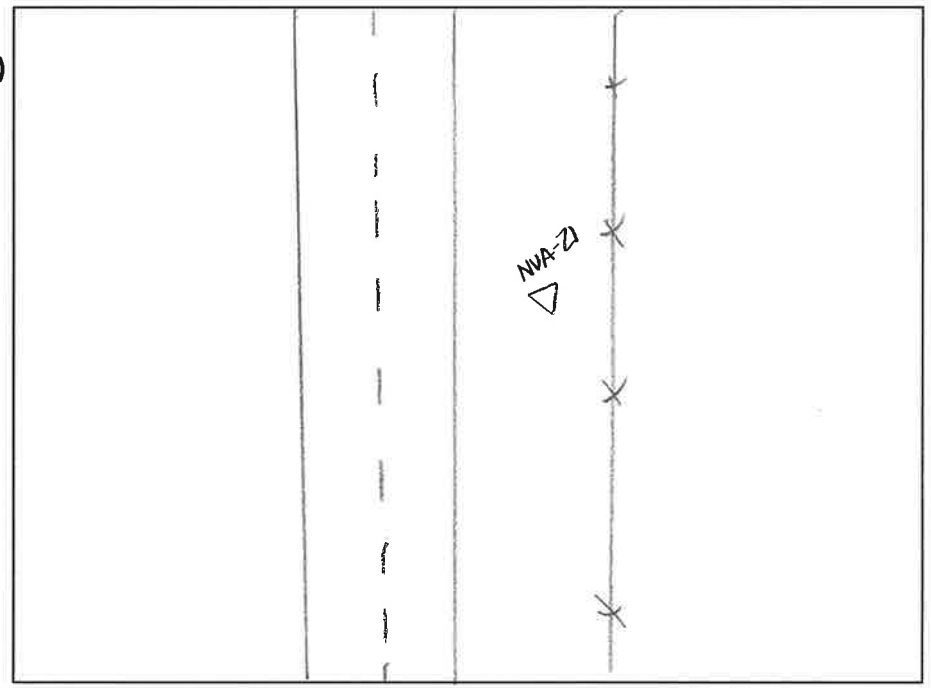
☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/15/16 TIME: 1019 AM/PM
RE-CHECK PT. NUMBER: NVA-21 CHK
PT 1154



SKETCH AREA

DESCRIPTION OF POINT:

60-D NAIL





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/15/16 TIME: 1407 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-22 PT 1158

STATE: Florida LATITUDE: 27° 57' 14.77002" LONGITUDE: 80° 52' 09.83239"

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 mins

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

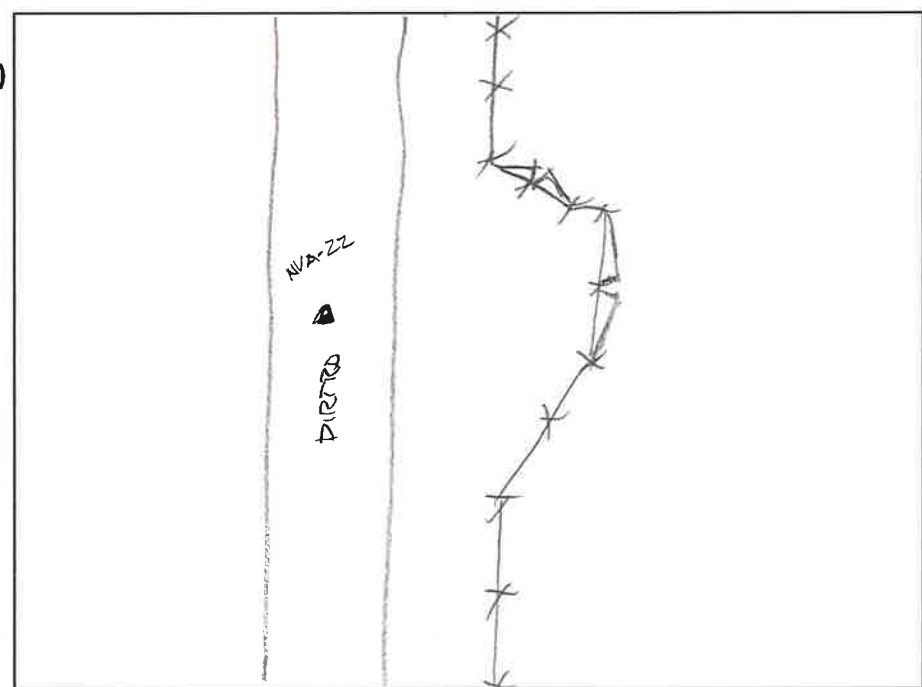
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

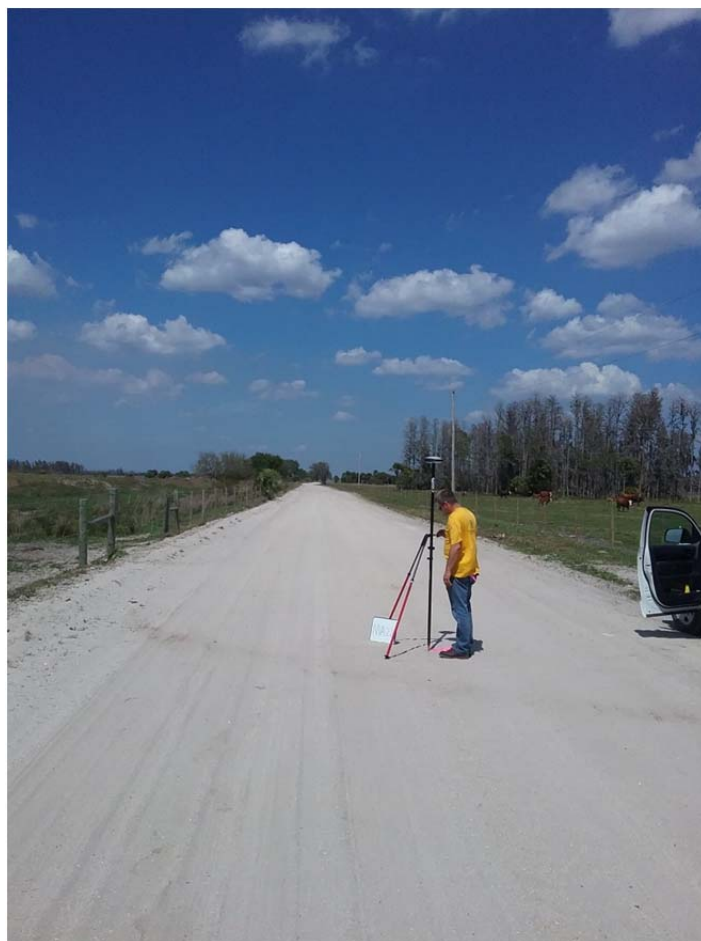
RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

GO-D NAIL



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/15/16 TIME: _____ AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-23 PT1160

STATE: Florida LATITUDE: 28°02'33.70016 LONGITUDE: 80°53'15.24905"

ADDRESS and/or INTERSECTION: KEMPPER RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

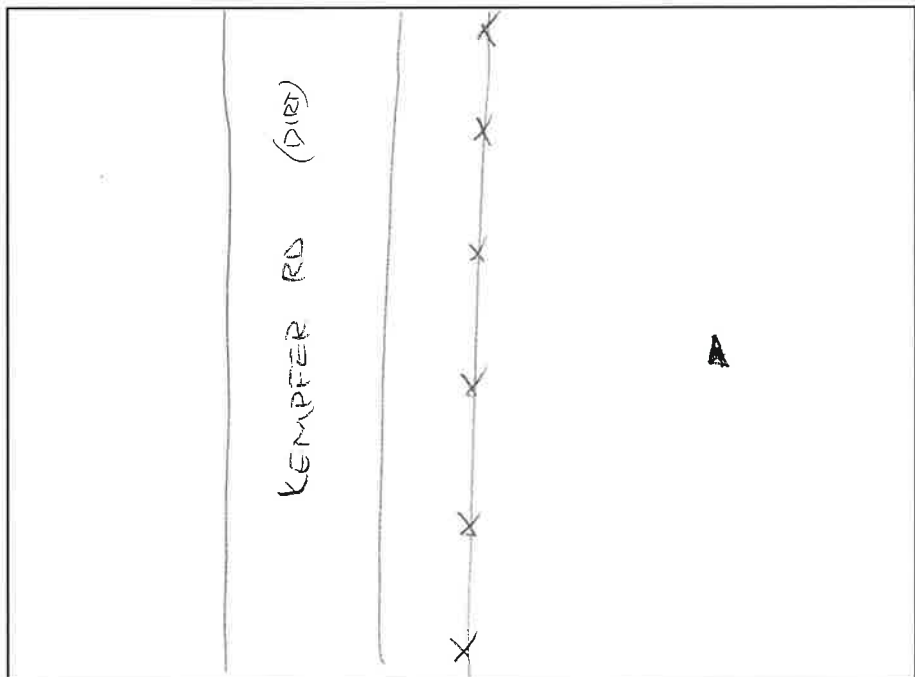
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

60D NAIL IN FIELD





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GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/15/16 TIME: 1243 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-24 P71162

STATE: Florida LATITUDE: 28°06'04.04907 LONGITUDE: 80°59'45.11754

ADDRESS and/or INTERSECTION: CRAB GRASS R

OBSERVATION METHOD:

☐ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

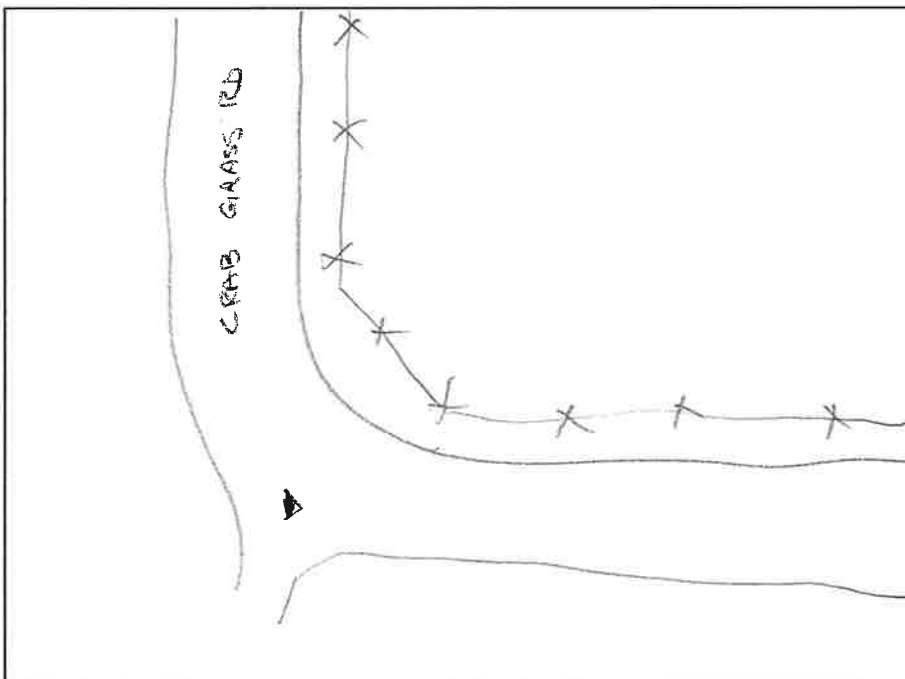
POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT:

60-D NAIL IN RD



SKETCH AREA





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/15/16 TIME: 1755 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-25

STATE: Florida LATITUDE: 28°04'42.31433 LONGITUDE: 80°56'13.17087"

ADDRESS and/or INTERSECTION: DIRT ROAD

OBSERVATION METHOD:

☐ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

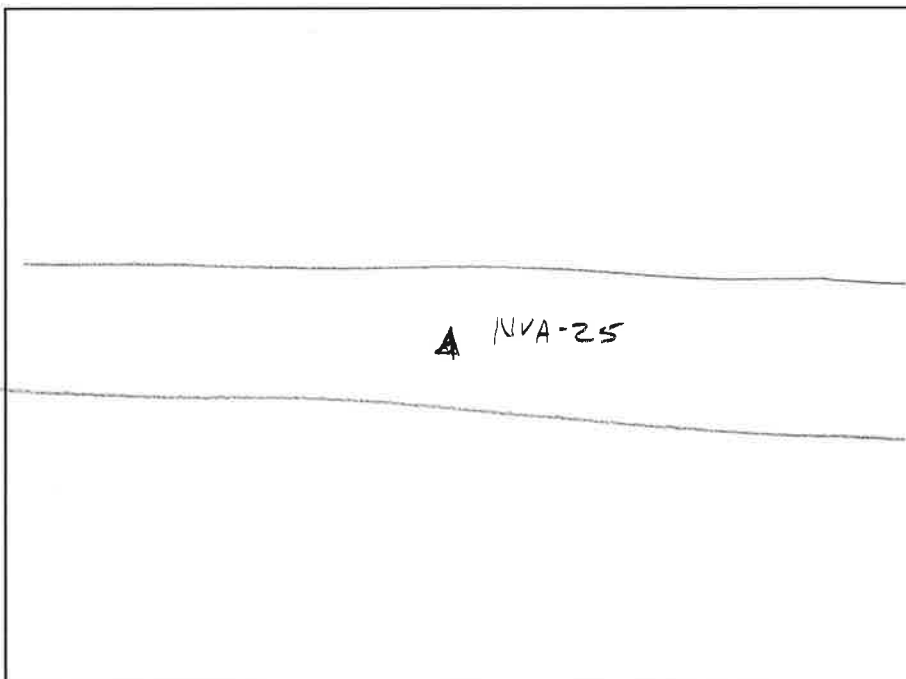
POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

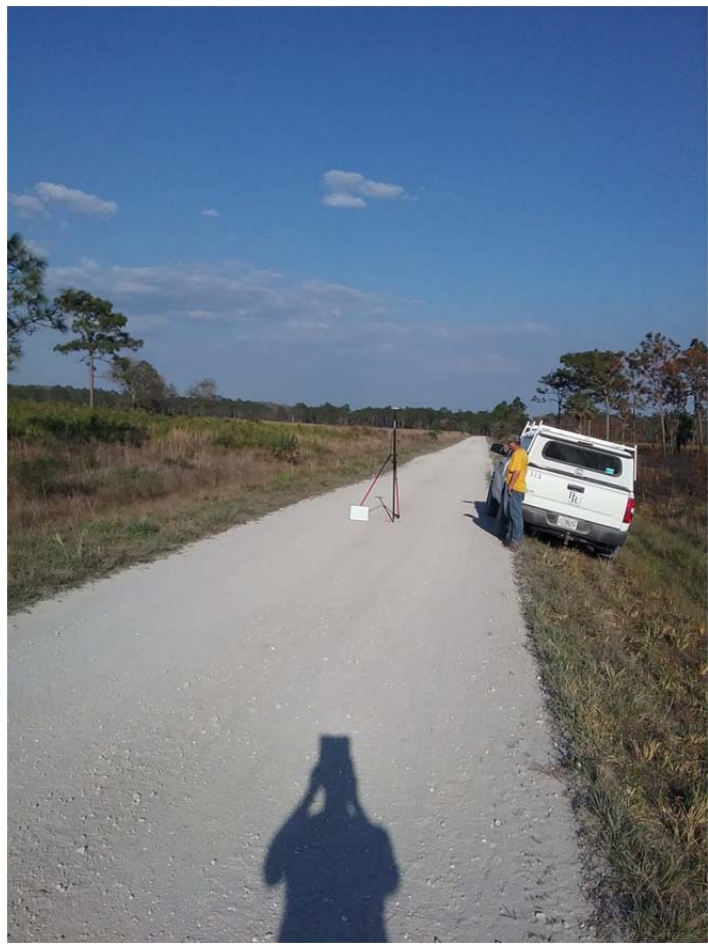
RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT:

60-D IN MIDDLE OF ROAD



SKETCH AREA





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CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/12/16 TIME: 0808 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-26 PRI085

STATE: Florida LATITUDE: 28°19'50.89480" LONGITUDE: 80°52'48.86217"

ADDRESS and/or INTERSECTION: PASTURE

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

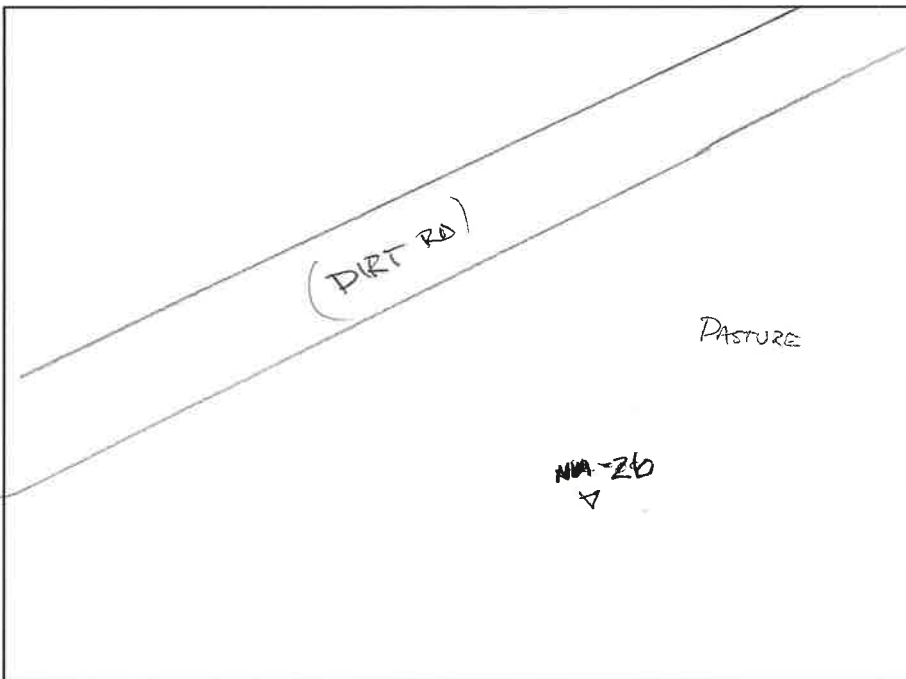
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/13/16 TIME: 0844 AM/PM

RE-CHECK PT. NUMBER: VVA-26 CHK
PRI08



SKETCH AREA

DESCRIPTION OF POINT:

60-D NAIL





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-17-16 TIME: 8:17 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 27

STATE: Florida LATITUDE: 28° 18' 10.46304" N LONGITUDE: 81° 25' 00.05006" W

ADDRESS and/or INTERSECTION: Town Corral Shopping Center

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: _____ DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

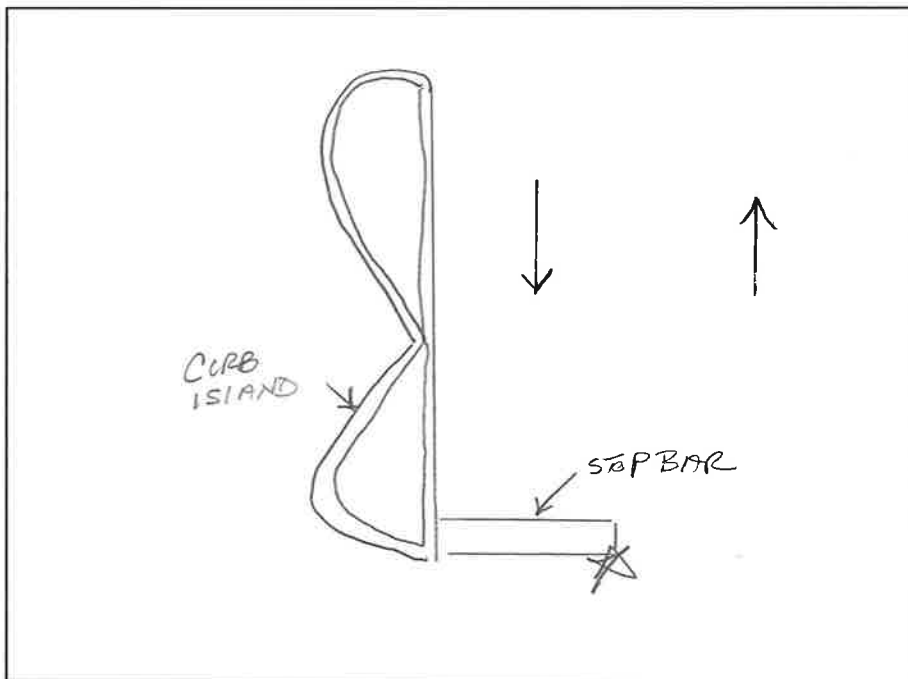
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

PK IN CORNER OF STOP BAR





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-17-16 TIME: 8:37 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NA 28

STATE: Florida LATITUDE: 28°16'28.52497"N LONGITUDE: 81°25'15.35242"W

ADDRESS and/or INTERSECTION: 1855 S. JOHN YOUNG PKWY

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: _____ V: _____ DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

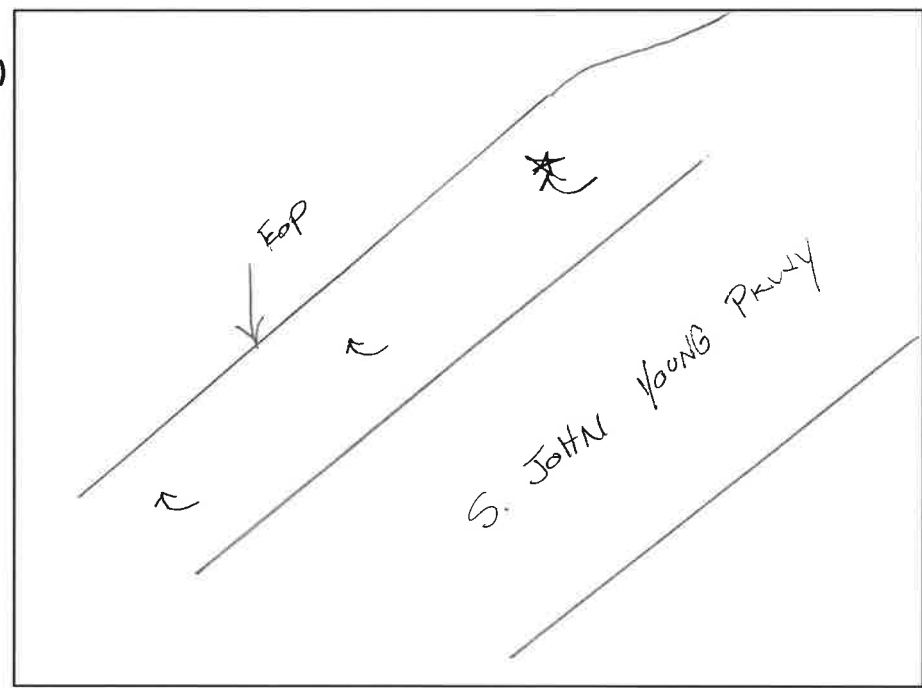
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

PK IN TIP OF TURN Arrow





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/7/16 TIME: 8:52 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 29

STATE: Florida LATITUDE: 28°14'50.10795"N LONGITUDE: 81°26'10.33863"W

ADDRESS and/or INTERSECTION: PLEASANT HILL & OAK HAMMOCK PRESERVE

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

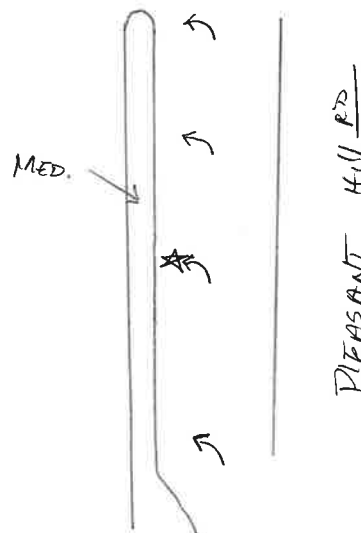
DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT:

P.K. AT TIP OF TURN AHEAD

OAK HAMMOCK
PRESERVE BLVD



SKETCH AREA



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-17-16 TIME: 9:03 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 30

STATE: Florida LATITUDE: 28°12'21.42097"N LONGITUDE: 81°26'25.06341"W

ADDRESS and/or INTERSECTION: Twilight & Pleasant H.

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

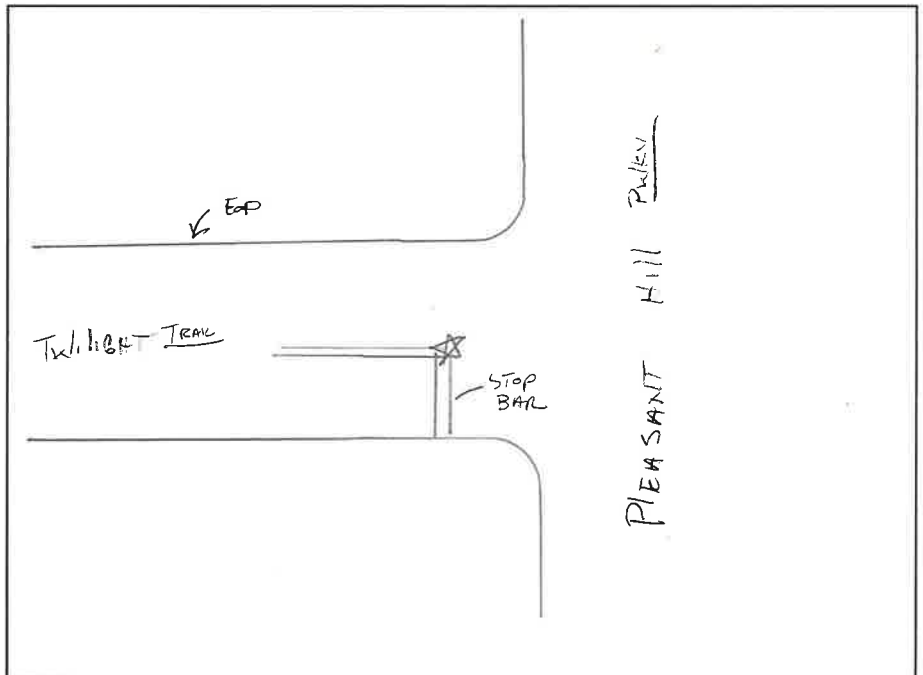
POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

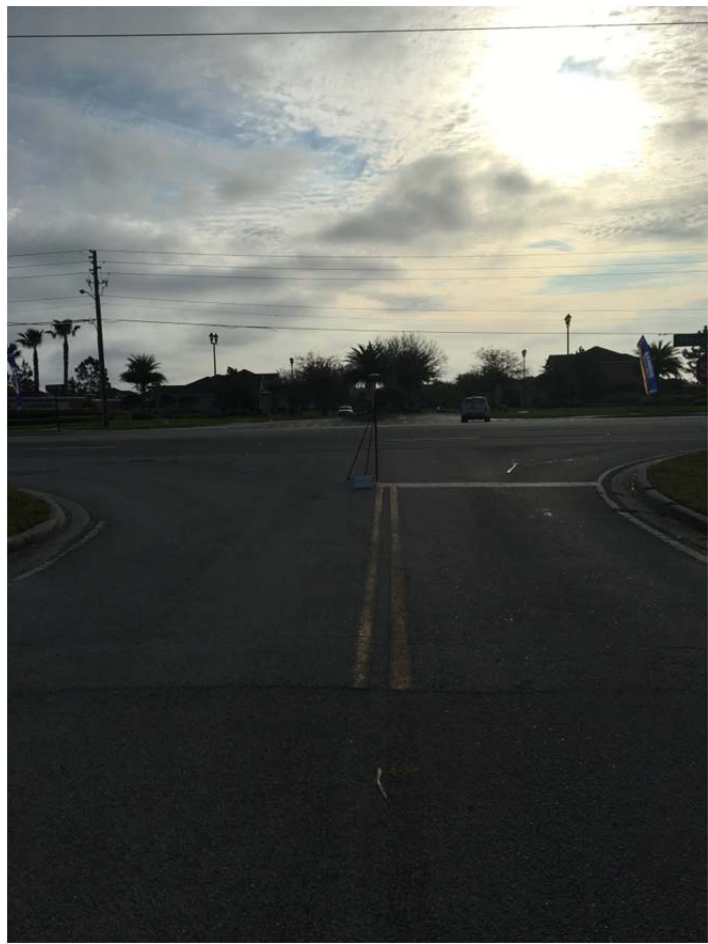
RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT:

P.K. IN CORNER OF STOP BAR



SKETCH AREA



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-16-16 TIME: 9:06 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: 111/A31

STATE: Florida LATITUDE: 28°09'15.96618"N LONGITUDE: 81°13'36.26915"W

ADDRESS and/or INTERSECTION: LAKE GENTRY BOAT RAMP

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

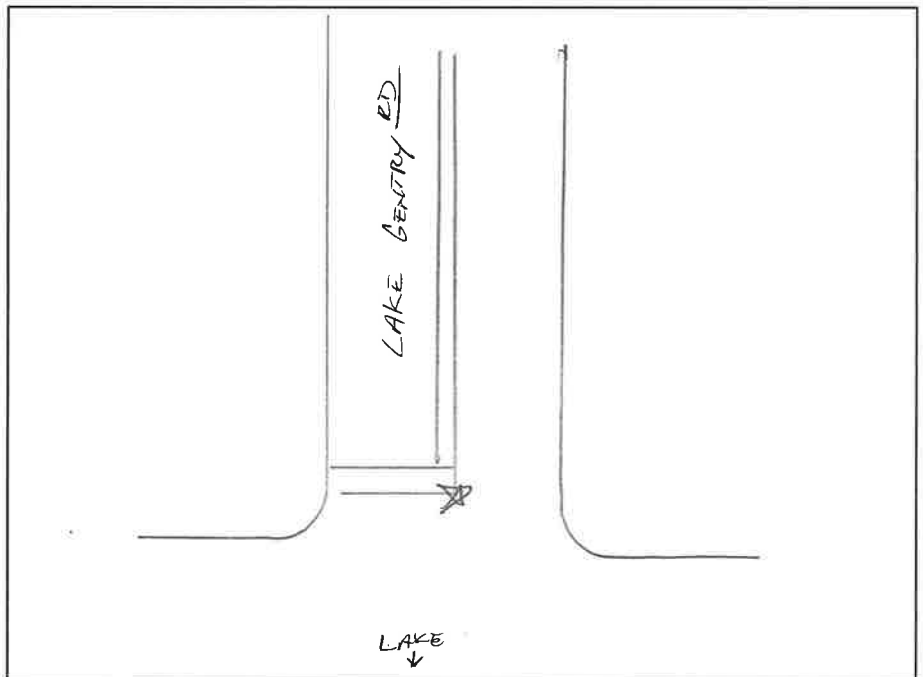
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

PK NAIL IN STOP BAR





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-14-16 TIME: 12:54 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA32

STATE: Florida LATITUDE: 27°53'35.61326" N LONGITUDE: 81°22'07.58844" W

ADDRESS and/or INTERSECTION: CAMP TRAIL RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

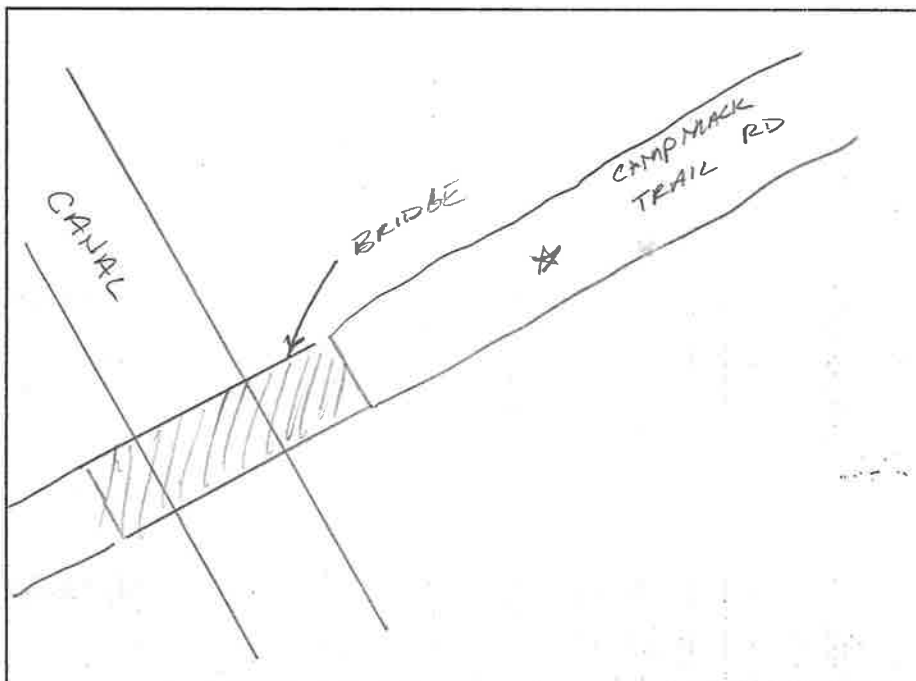
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-14-16 TIME: 5:00 AM/PM PM

RE-CHECK PT. NUMBER: NVA92-CHK



SKETCH AREA

DESCRIPTION OF POINT:

60D IN CENTER OF TRAIL ROAD





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-15-16 TIME: 9:57 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: X/NA 33

STATE: Florida LATITUDE: 28°00'58.77694" N LONGITUDE: 81°15'03.44790" W

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

- ☒ Non-Vegetated Vertical Accuracy (NVA-#)
- ☐ Vegetated Vertical Accuracy (VVA-#)

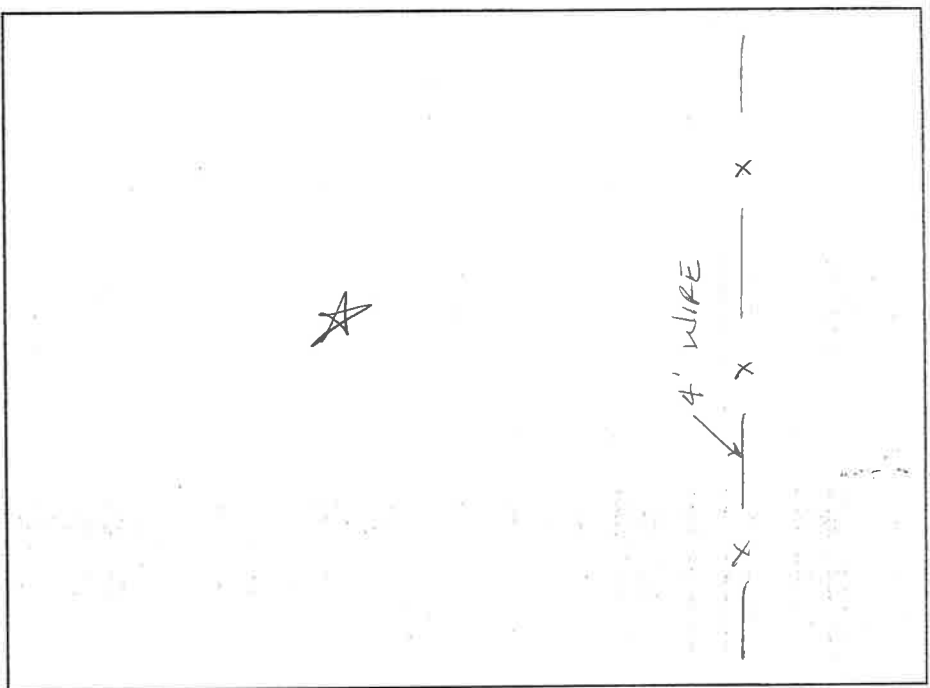
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

WOOD IN COW PASTURE





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-9-16 TIME: 12:56 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 34

STATE: Florida LATITUDE: 28°13'02.84199" N LONGITUDE: 81°25'13.05669" W

ADDRESS and/or INTERSECTION: END OF CUL-D-SAC WEST BOROUGHS LN

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

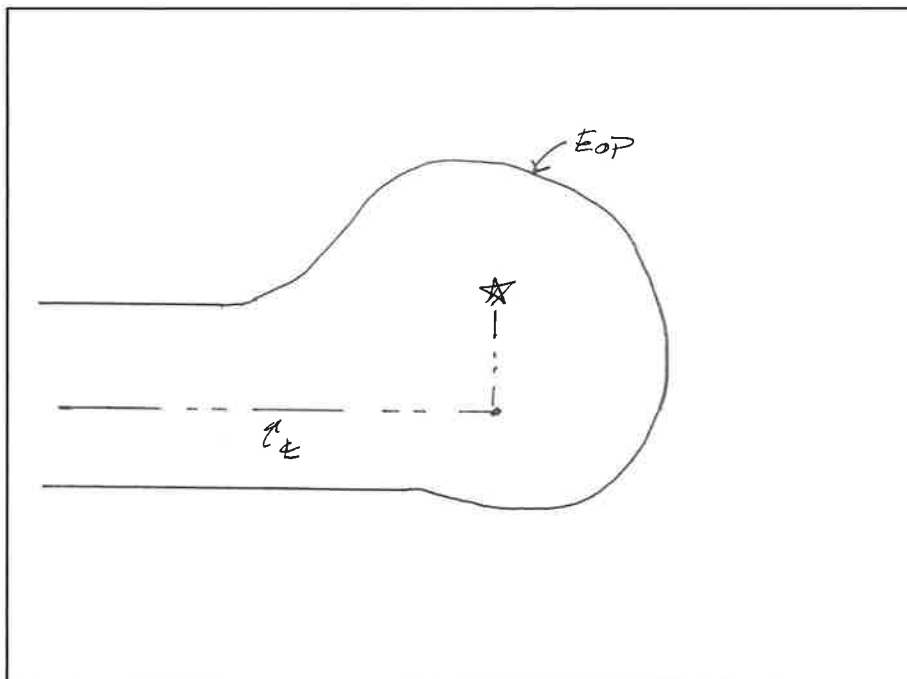
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-10-16 TIME: 12:45 AM/PM

RE-CHECK PT. NUMBER: NVA50-CHK



SKETCH AREA

DESCRIPTION OF POINT:

1" NAIL DISK 6605 LB IN CUL-D-SAC WEST BOROUGHS LN





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 6:15 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: N/A 35

STATE: Florida LATITUDE: 27°49'20.34473"N LONGITUDE: 80°52'08.87680"W

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

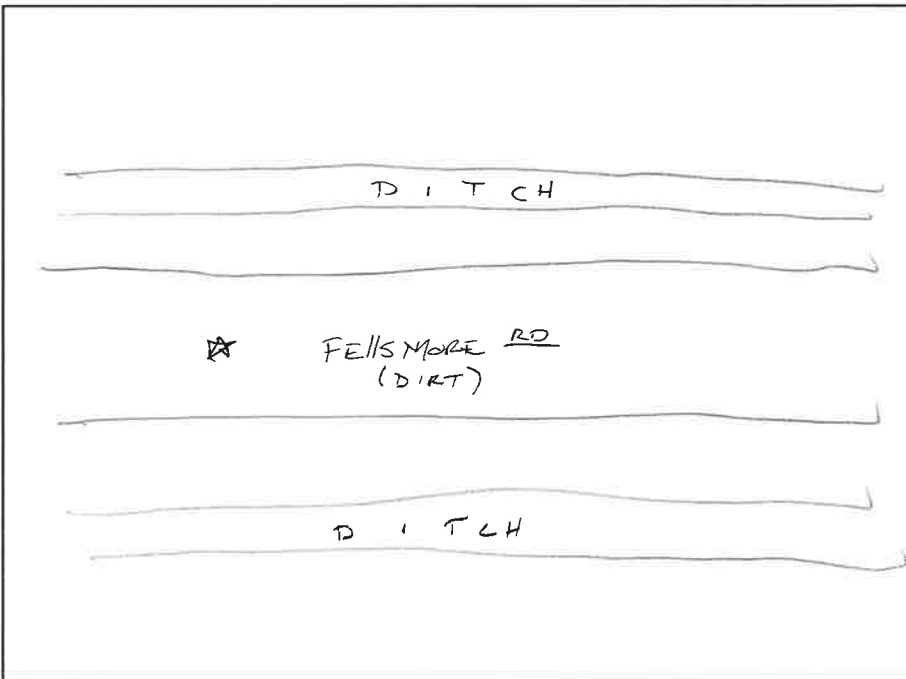
POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT:

60D IN CENTER OF DIRT RD



SKETCH AREA





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 5:53 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 36

STATE: Florida LATITUDE: 27°51'04.66629"N LONGITUDE: 80°52'14.62967"W

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

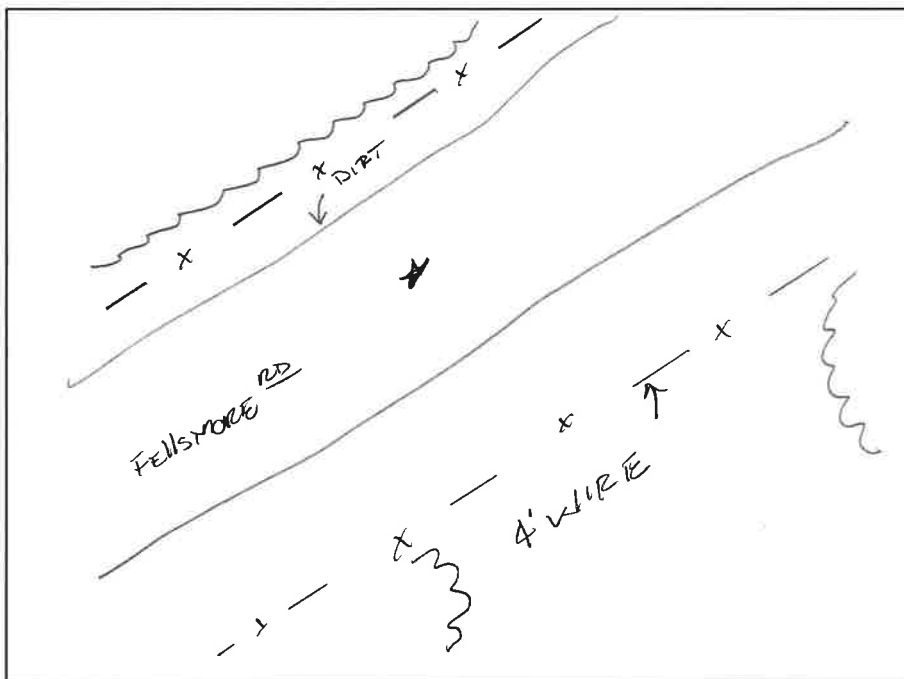
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

600 IN E OF DIRT RD





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 5:45 AM/PM (M) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 37

STATE: Florida LATITUDE: 27° 51' 21.65893" N LONGITUDE: 80° 56' 08.12234" W

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

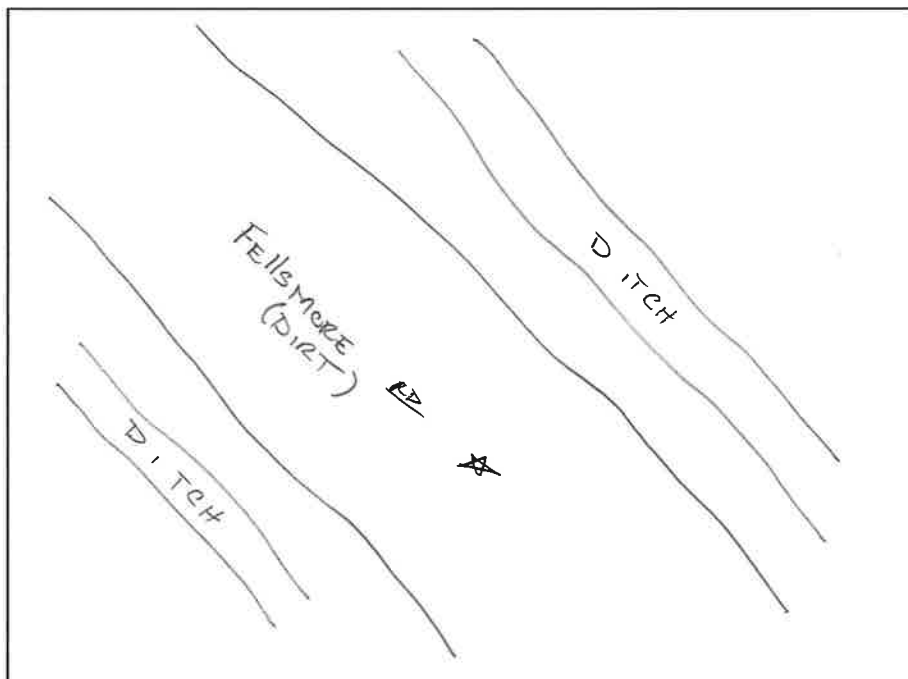
POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT:

WOOD IN DIRT RD



SKETCH AREA





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 2:23 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 38

STATE: Florida LATITUDE: 27°48'18.67922"N LONGITUDE: 81°13'35.65114"W

ADDRESS and/or INTERSECTION: 24203 SR 60

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

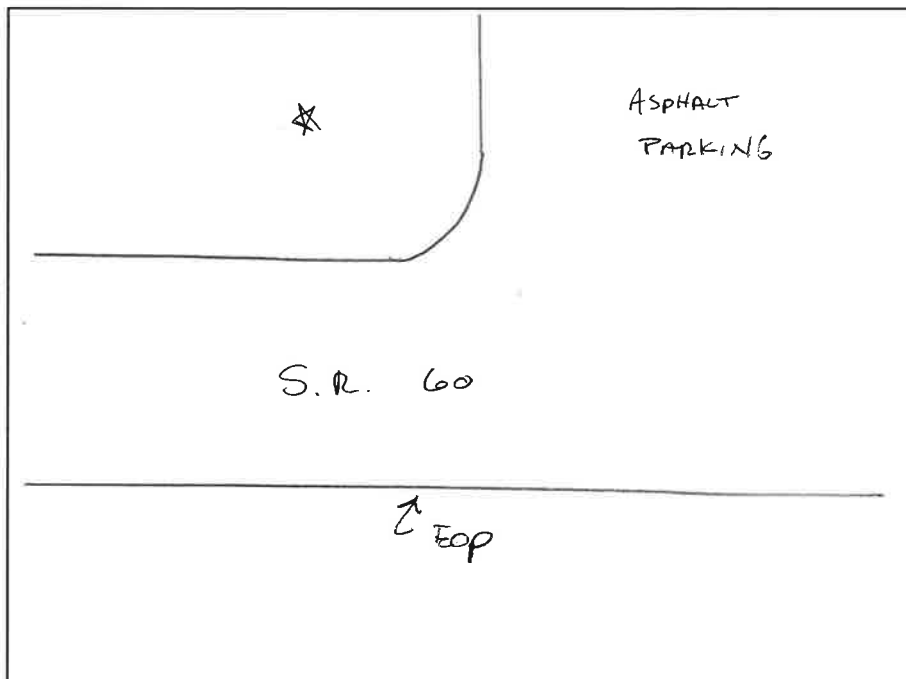
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

60D IN GRASS AREA





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 1:33 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 39

STATE: Florida LATITUDE: 27°47'22.76330"N LONGITUDE: 81°09'02.70597"W

ADDRESS and/or INTERSECTION: S.R. 60

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 min

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

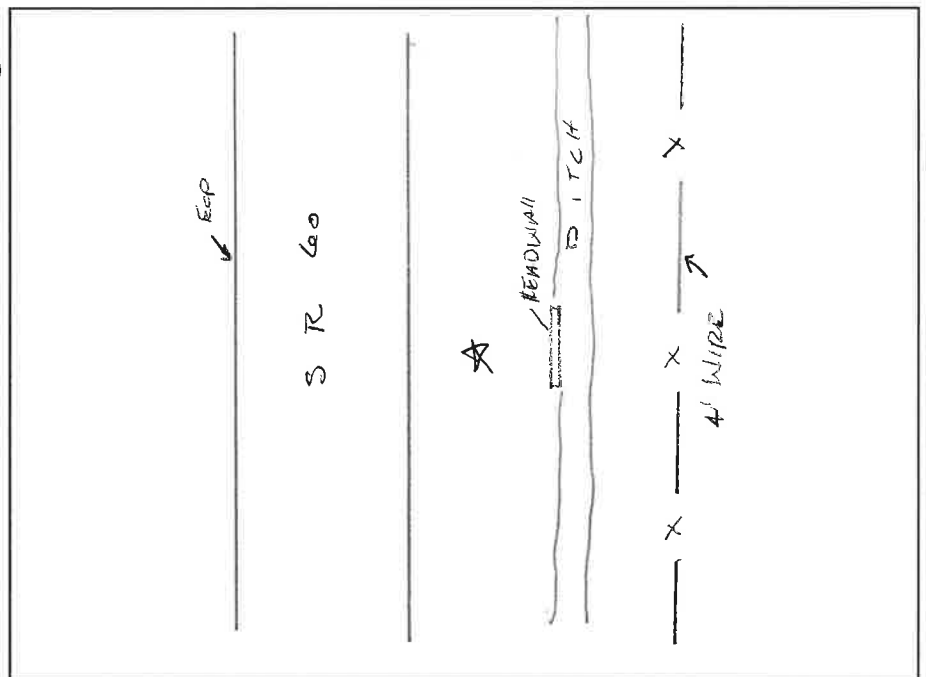
POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT:

ROAD IN GRASS SHOULDER



SKETCH AREA





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 1:25 AM/PM) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 40

STATE: Florida LATITUDE: 27° 46' 02.03467" N LONGITUDE: 81° 06' 12.40281" W

ADDRESS and/or INTERSECTION: STATE ROAD 600

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT:

GOOD ON GRASS SHOULDER

— x — x — x — 4' wire — x — x —

★

S.R. No. 600

↑ Eop

SKETCH AREA





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 9:53 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA #41

STATE: Florida LATITUDE: 28°18'11.70954" N LONGITUDE: 81°27'32.01165" W

ADDRESS and/or INTERSECTION: 4444 W. VINE ST

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 1/2 MINS.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

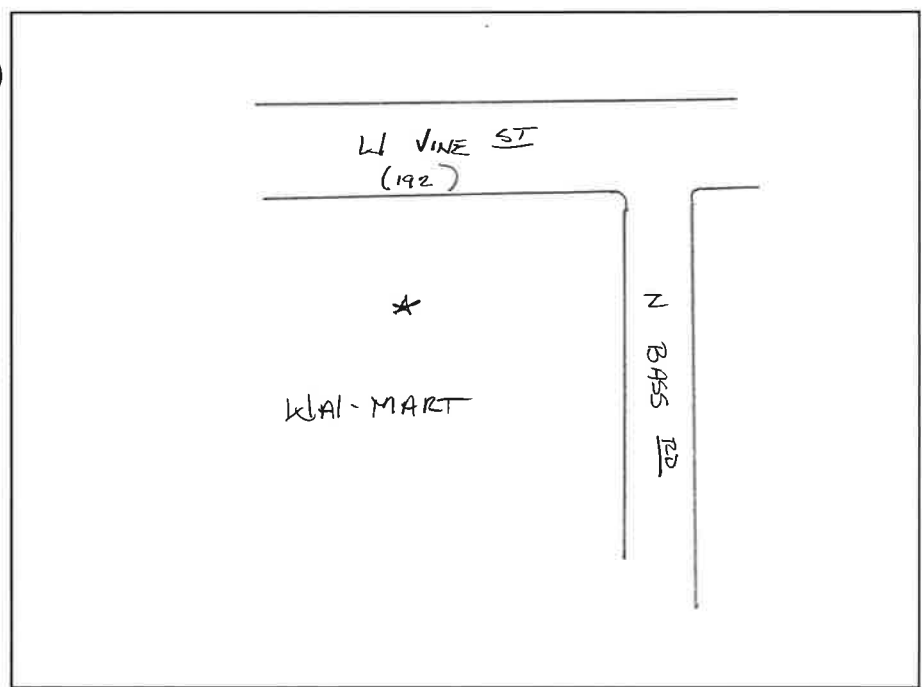
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 7:20 AM/PM

RE-CHECK PT. NUMBER: NVA-01CHK



SKETCH AREA

DESCRIPTION OF POINT:

END OF PARKING STRIPE





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 10:35 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA #42

STATE: Florida LATITUDE: 28°18'01.17945"N LONGITUDE: 81°24'36.53467"W

ADDRESS and/or INTERSECTION: OSCEOLA MEDICAL ARTS 720 OAK ST

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 1/2 Mins

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

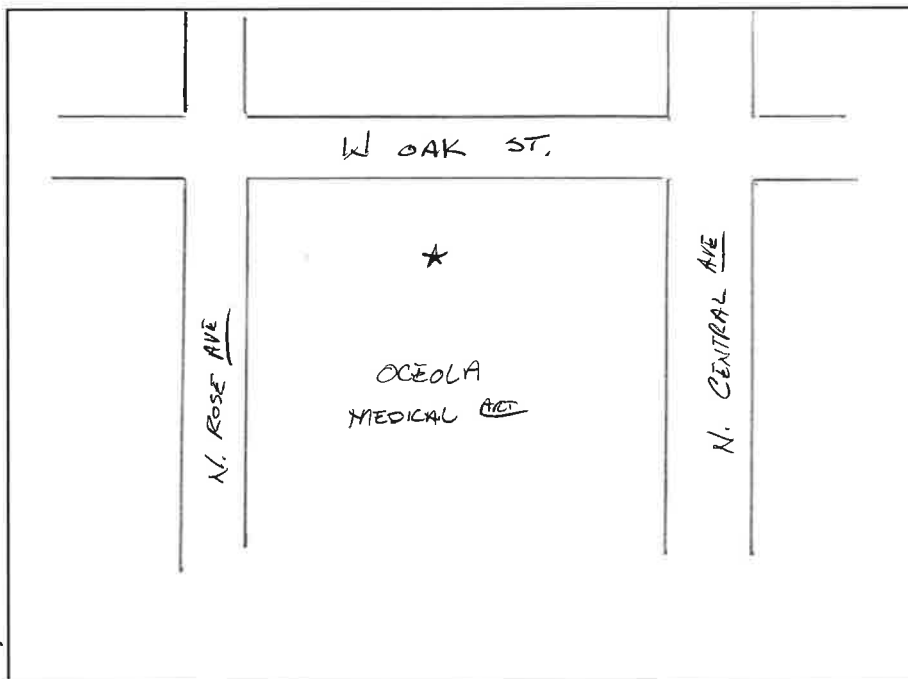
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 7:52 AM/PM

RE-CHECK PT. NUMBER: NVA42-OZCHK



SKETCH AREA

DESCRIPTION OF POINT:

SET P.V. IN PARKING LOT



2004



PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 11:16 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA #43

STATE: Florida LATITUDE: 28°18'02.04329" N LONGITUDE: 81°21'50.64586" W

ADDRESS and/or INTERSECTION: 1000 Bill Beck BVD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.03 DURATION: 3 1/2 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

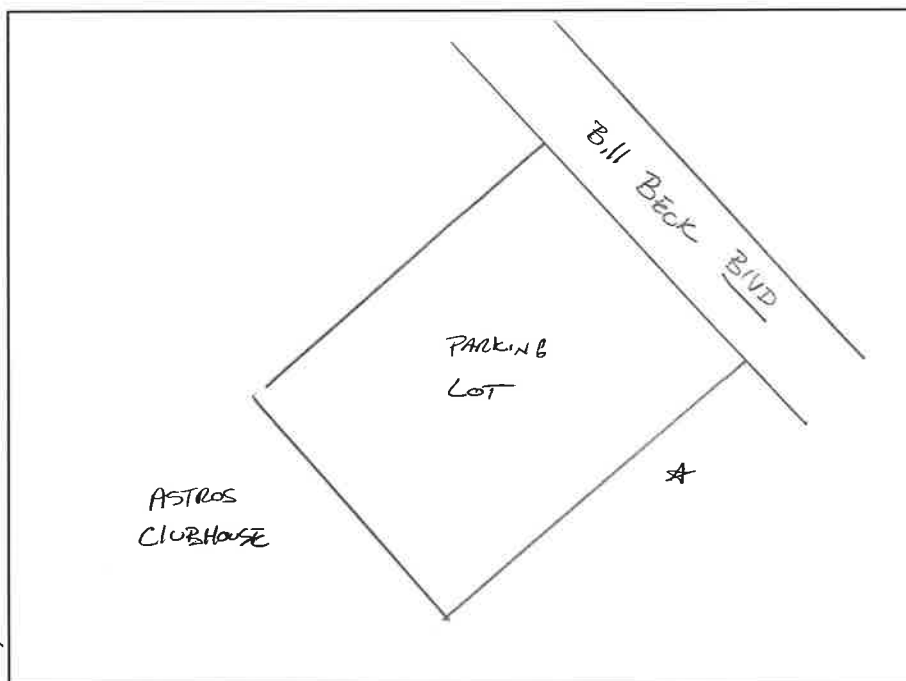
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 8:10 AM/PM

RE-CHECK PT. NUMBER: NVA43-03CHK



SKETCH AREA

DESCRIPTION OF POINT:

SET LOD IN GRASS AREA





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 11:38 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA #44

STATE: Florida LATITUDE: 28° 18' 15.53719" N LONGITUDE: 81° 19' 38.87510" W

ADDRESS and/or INTERSECTION: FORTUNE & KISSIMMEE BVD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.02 V: 0.03 DURATION: 3 1/2 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

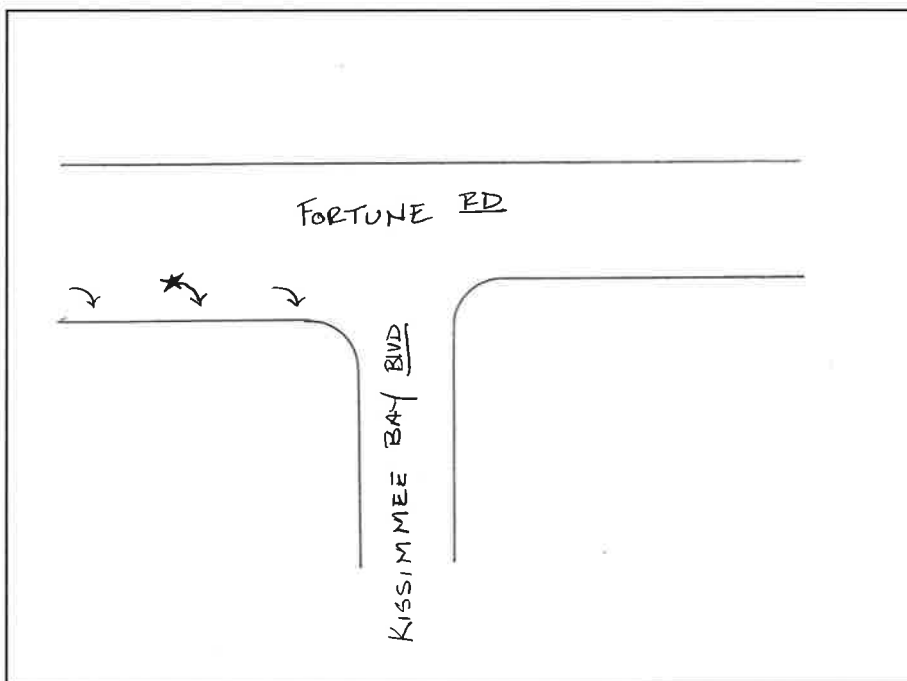
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 8:25 AM/PM

RE-CHECK PT. NUMBER: NVA44 O4CHK



SKETCH AREA

DESCRIPTION OF POINT:

CORNER OF TURN ARROW





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 12:01 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 45

STATE: Florida LATITUDE: 28°20'01.33078"N LONGITUDE: 81°17'15.71649"W

ADDRESS and/or INTERSECTION: Bobby Creek & SPRINGDALE VILLAGE BLVD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 1/2 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

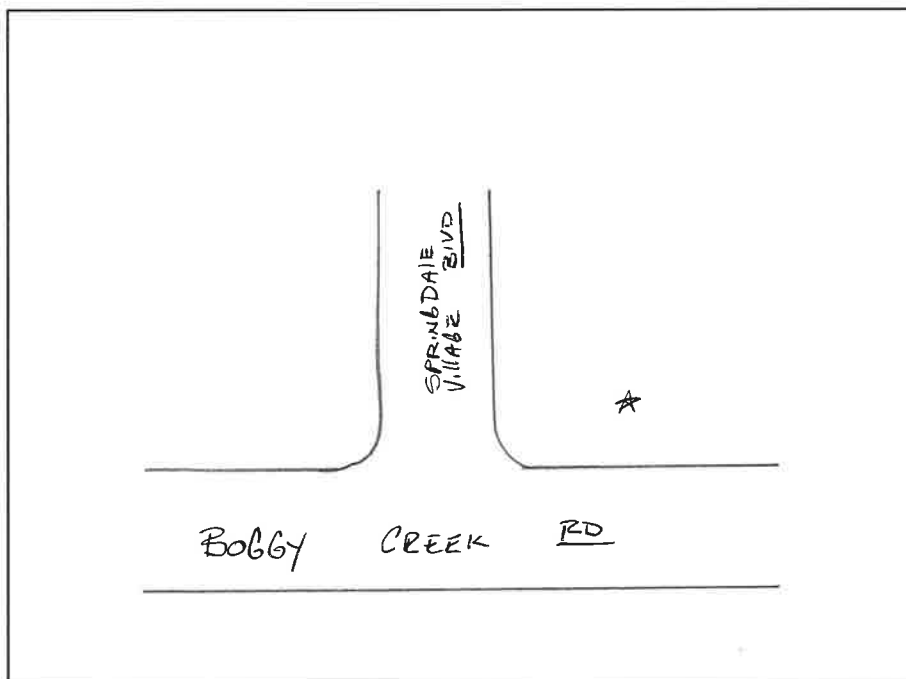
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 8:46 AM/PM AM

RE-CHECK PT. NUMBER: NVA45-OSCHK



SKETCH AREA

DESCRIPTION OF POINT:

GOOD IN GRASS





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 12:35 AM/PM PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 46

STATE: Florida LATITUDE: 28°20'47.72428" N LONGITUDE: 81°20'38.89321" W

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 1/2 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

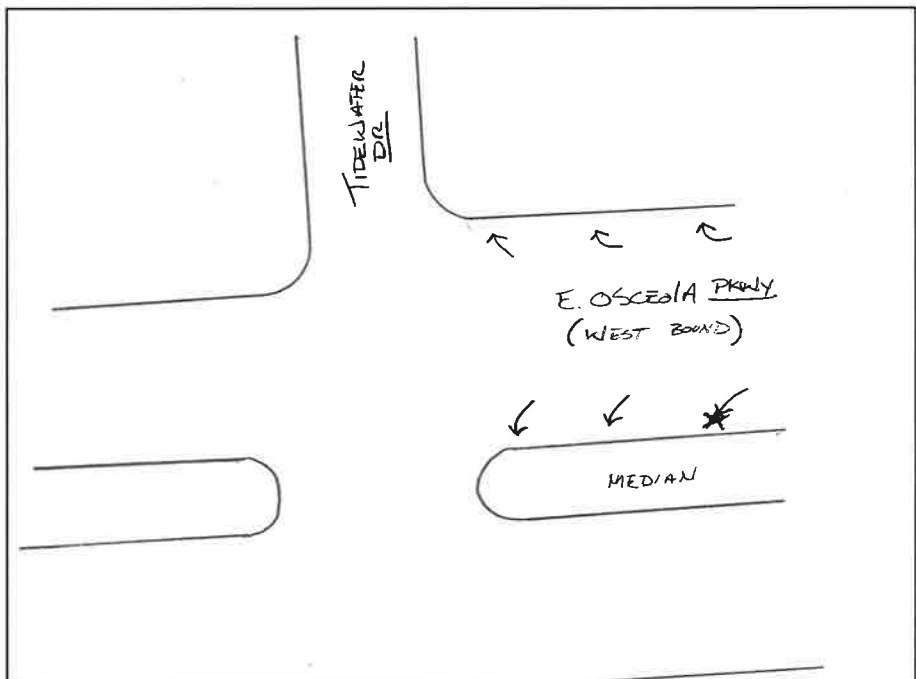
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 8:59 AM/PM PM

RE-CHECK PT. NUMBER: NVA46-06CHC



SKETCH AREA

DESCRIPTION OF POINT:

PK AT TIP OF TURN APPROX





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 2:45 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 47

STATE: Florida LATITUDE: 28°20'38.78676"N LONGITUDE: 81°28'14.30570"W

ADDRESS and/or INTERSECTION: OSCEOLA PKWY; STONEY LAKE RVD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.02 V: 0.03 DURATION: 3 1/2 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

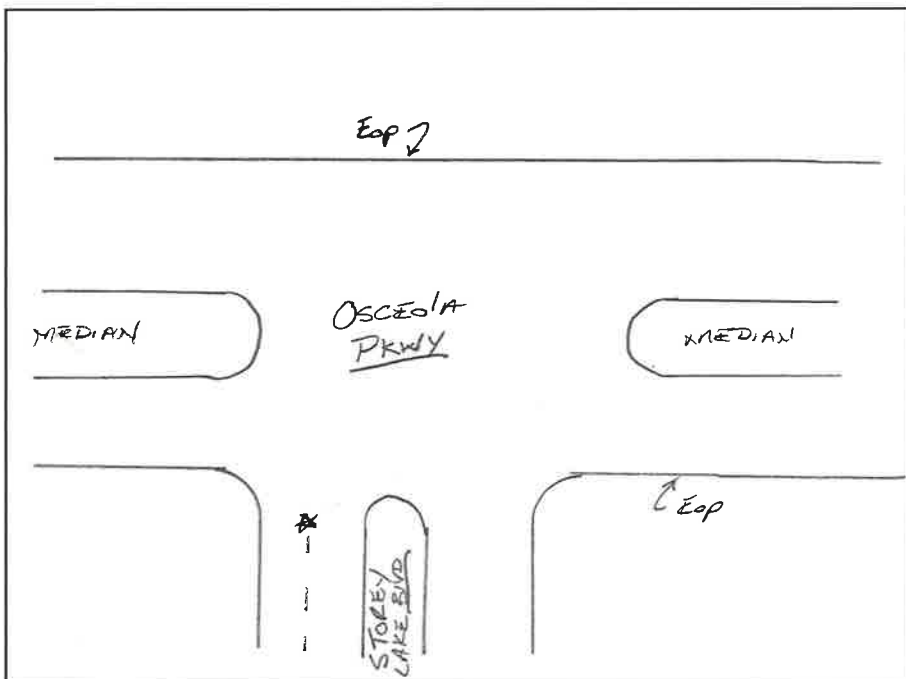
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 10:05 AM/PM

RE-CHECK PT. NUMBER: NVA47-09CHK



SKETCH AREA

DESCRIPTION OF POINT:

P.K. NAIL IN END OF PARKING STRIPE





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 2:10 AM/PM ~~PM~~ EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 48

STATE: Florida LATITUDE: 28°20'41.0491"N LONGITUDE: 81°31'37.61212"W

ADDRESS and/or INTERSECTION: GAYLORD PALMS RESORT

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 1/2 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

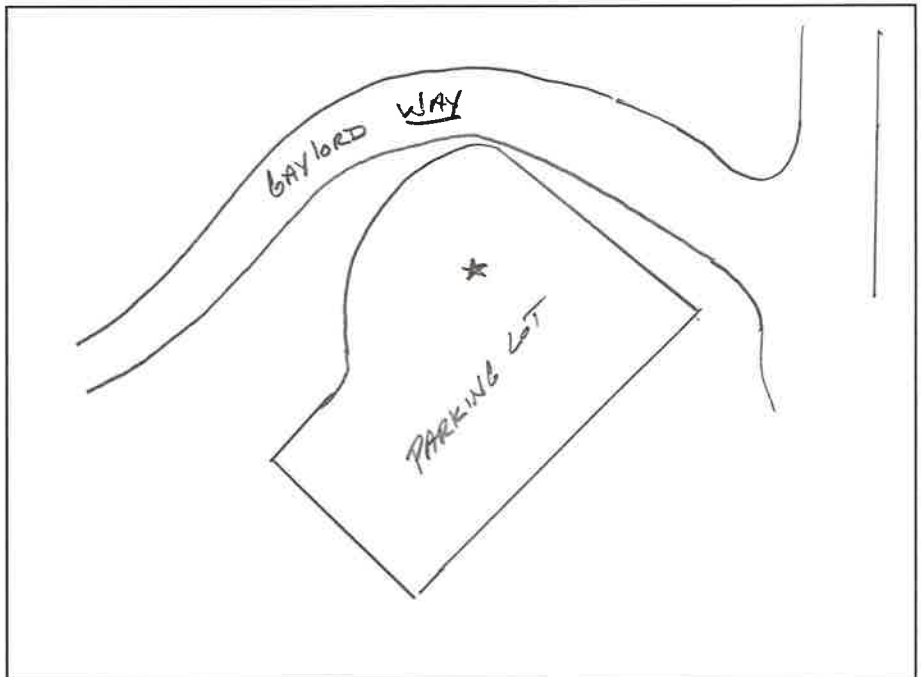
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 9:15 AM/PM ~~PM~~

RE-CHECK PT. NUMBER: NVA48-10CHK



SKETCH AREA

DESCRIPTION OF POINT:

STRIPES INTERSECTION (PK NAL)





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 3:40 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 49

STATE: Florida LATITUDE: 28°20'37.17539"N LONGITUDE: 81°35'23.96476"W

ADDRESS and/or INTERSECTION: GRASS AREA AT YMCA · 3261 SHERBERTH RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 1/2 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

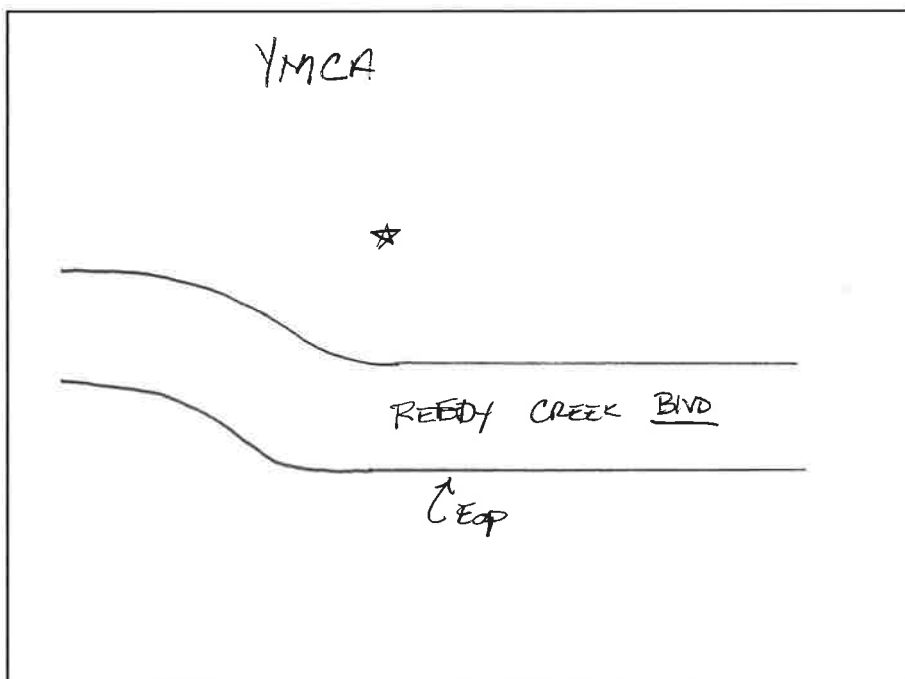
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 10:34 AM/PM AM

RE-CHECK PT. NUMBER: NVA 49-11CHK



SKETCH AREA

DESCRIPTION OF POINT:

GOOD IN GRASSED AREA





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 1:46 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA # 50

STATE: Florida LATITUDE: 28°20'45.74830"N LONGITUDE: 81°23'35.59529"W

ADDRESS and/or INTERSECTION: S. ORANGE AVE

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 1/2 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

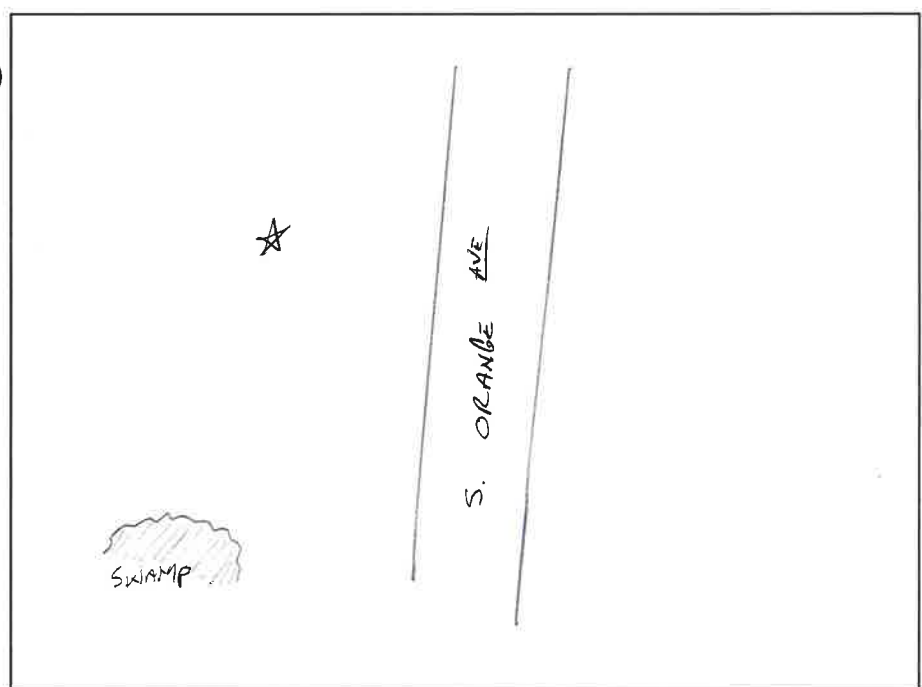
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-8-16 TIME: 9:30 AM/PM

RE-CHECK PT. NUMBER: NVA50-07CHK



SKETCH AREA

DESCRIPTION OF POINT:

60D IN GRASS





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-8-16 TIME: 11:22 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 51

STATE: Florida LATITUDE: 28° 17' 44.25455" N LONGITUDE: 81° 39' 15.26539" W

ADDRESS and/or INTERSECTION: TEACHER DR ENT. TO COMMUNITY FAITH CHURCH

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

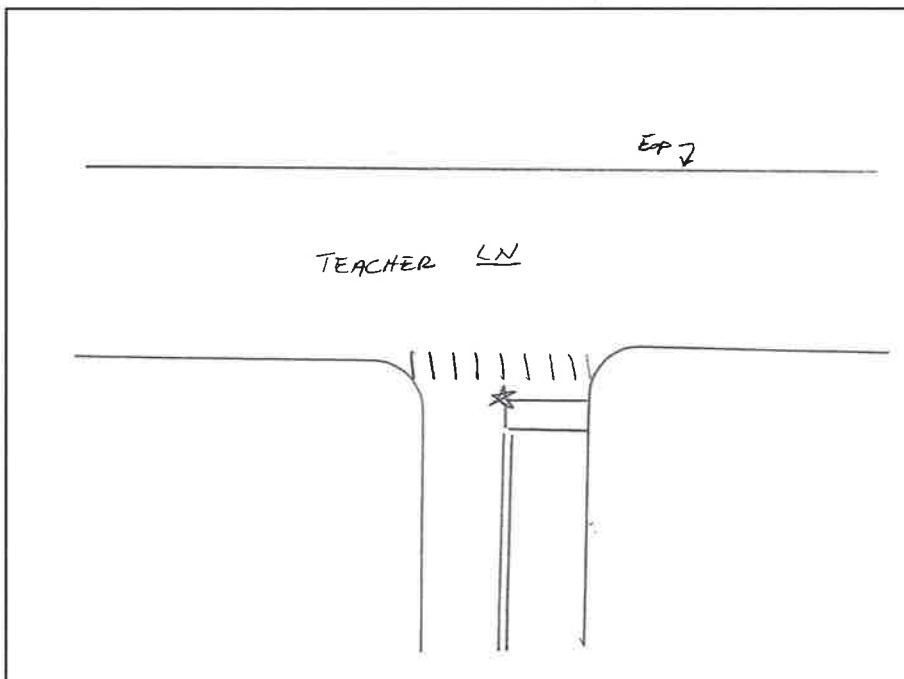
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-9-16 TIME: 7:40 AM/PM

RE-CHECK PT. NUMBER: NVA-13CHK



SKETCH AREA

DESCRIPTION OF POINT:

SET P.K NAIL IN CORNER OF STOPBAR





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-17-16 TIME: 9:50 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA52

STATE: Florida LATITUDE: 28°08'34.79298"N LONGITUDE: 81°23'27.14177"W

ADDRESS and/or INTERSECTION: W. South Port RD

OBSERVATION METHOD:

☐ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

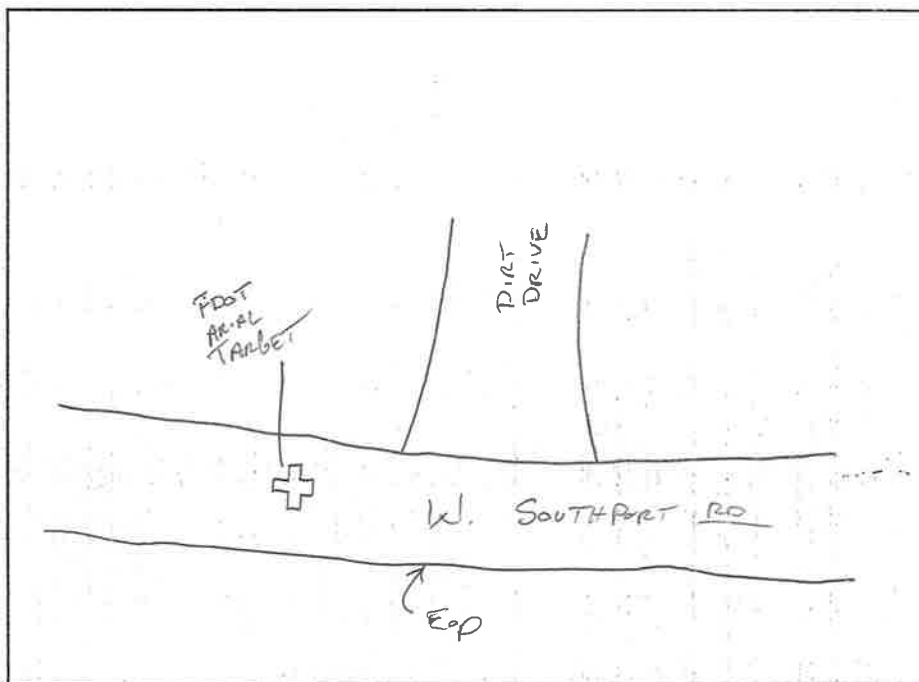
PICTURES:

☐ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

FND DOT NED WITH TARGET





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-8-16 TIME: 12:30 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 53

STATE: Florida LATITUDE: 28°15'45.35045" N LONGITUDE: 81°37'05.11366" W

ADDRESS and/or INTERSECTION: LEGENDS BVD & LAURA LN

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.02 V: 0.03 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

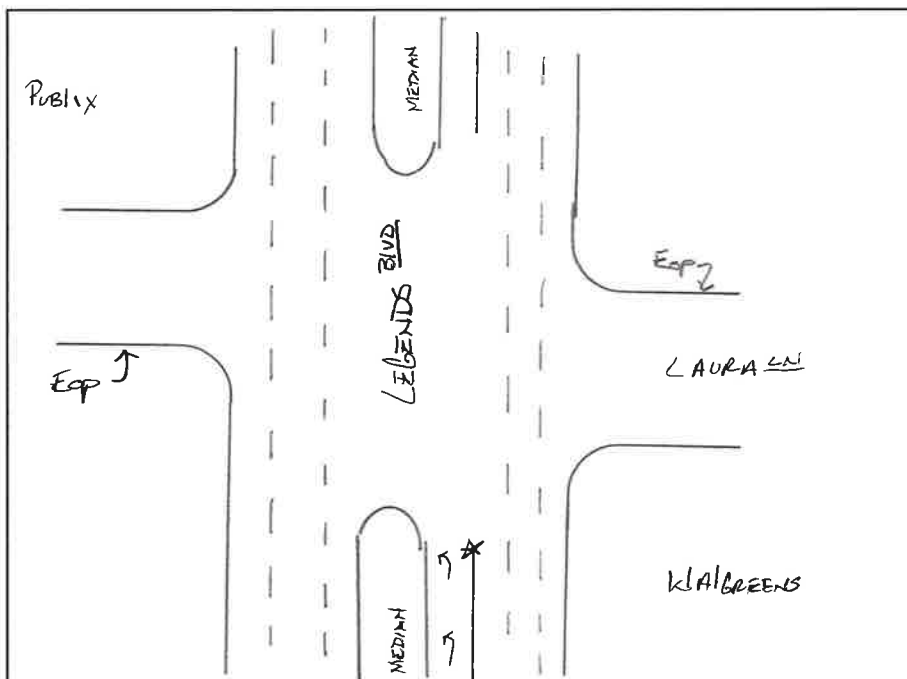
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-9-16 TIME: 8:51 AM/PM AM

RE-CHECK PT. NUMBER: NVA53-CHK



SKETCH AREA

DESCRIPTION OF POINT:

P.K. IN END OF TURN LANE STRIPE





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-9-16 TIME: 1:20 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 54

STATE: Florida LATITUDE: 28° 13' 17.86746" N LONGITUDE: 81° 27' 54.02793" W

ADDRESS and/or INTERSECTION: 2651 HAM BROWN RD (LOWE'S DIST. CENTER)

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

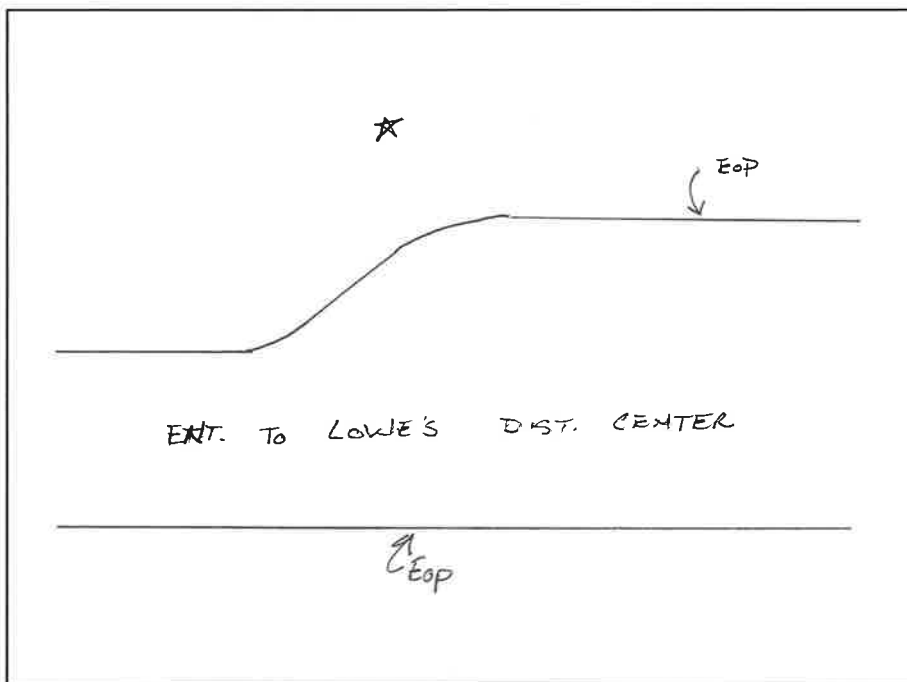
POINT RE-CHECK:

DATE: 3-10-16 TIME: 11:28 AM/PM

RE-CHECK PT. NUMBER: NVA 54 - CHK

DESCRIPTION OF POINT:

WOOD IN GRASS AREA



SKETCH AREA





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-8-16 TIME: 2:14 AM/PM (M) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 55

STATE: Florida LATITUDE: 28°17'58.55452"N LONGITUDE: 81°35'26.34995"W

ADDRESS and/or INTERSECTION: N OLD LAKE WILSON RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

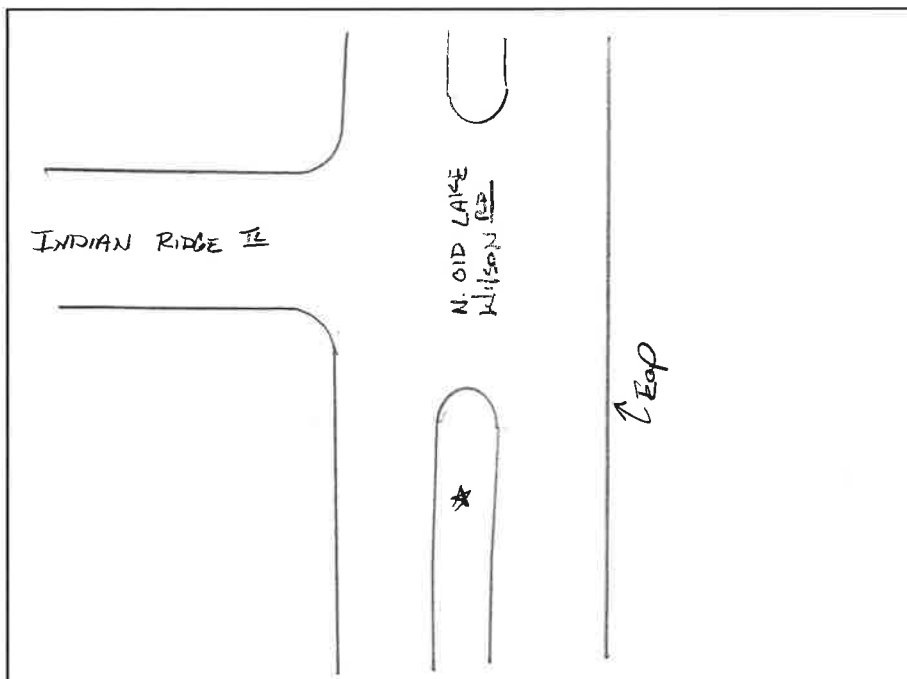
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-9-16 TIME: 9:38 AM/PM (M)

RE-CHECK PT. NUMBER: NVA 55-CHK



SKETCH AREA

DESCRIPTION OF POINT:

LOD IN GRASSED MEDIAN





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-8-16 TIME: 2:48 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 56

STATE: Florida LATITUDE: 28°17'59.13215" N LONGITUDE: 81°32'38.91111" W

ADDRESS and/or INTERSECTION: Aquila Loop & Golden Canna Ln

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

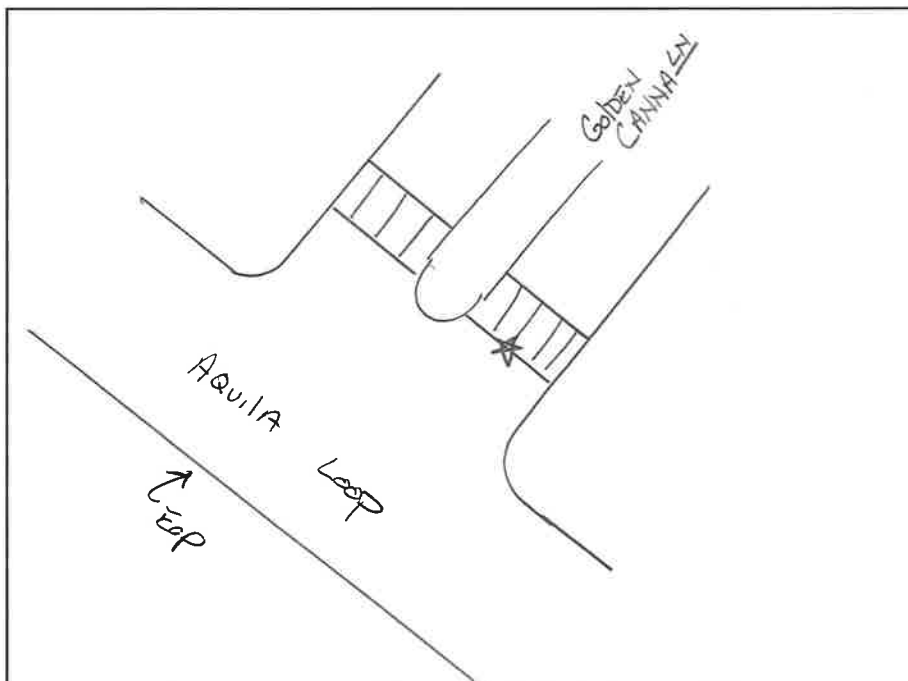
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-9-16 TIME: 10:00 AM/PM AM

RE-CHECK PT. NUMBER: NVA56-CHK



SKETCH AREA

DESCRIPTION OF POINT:

P.K AT CROSSWALK STRIPE





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-8-16 TIME: 3:44 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 57

STATE: Florida LATITUDE: 28°15'50.22773" N LONGITUDE: 81°31'23.92331" W

ADDRESS and/or INTERSECTION: 5837 ORANGE Blossom TL

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

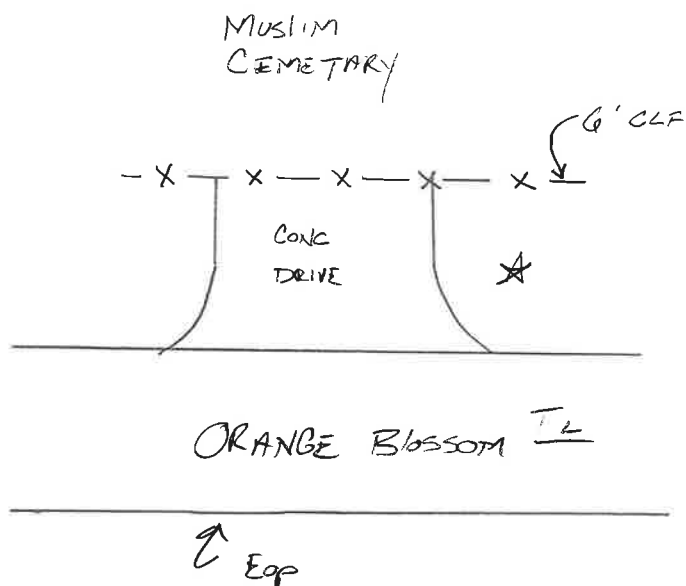
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-9-16 TIME: 10:30 AM/PM

RE-CHECK PT. NUMBER: NVA57-CHK



SKETCH AREA

DESCRIPTION OF POINT:

WOOD IN GRASS AREA





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-8-16 TIME: 4:13 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 58

STATE: Florida LATITUDE: 28°15'20.75593"N LONGITUDE: 81°23'05.15926"W

ADDRESS and/or INTERSECTION: UNIVERSAL DR

OBSERVATION METHOD:

☐ VRS GPS RMS: _____ H: 0.01 V: 0.03 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

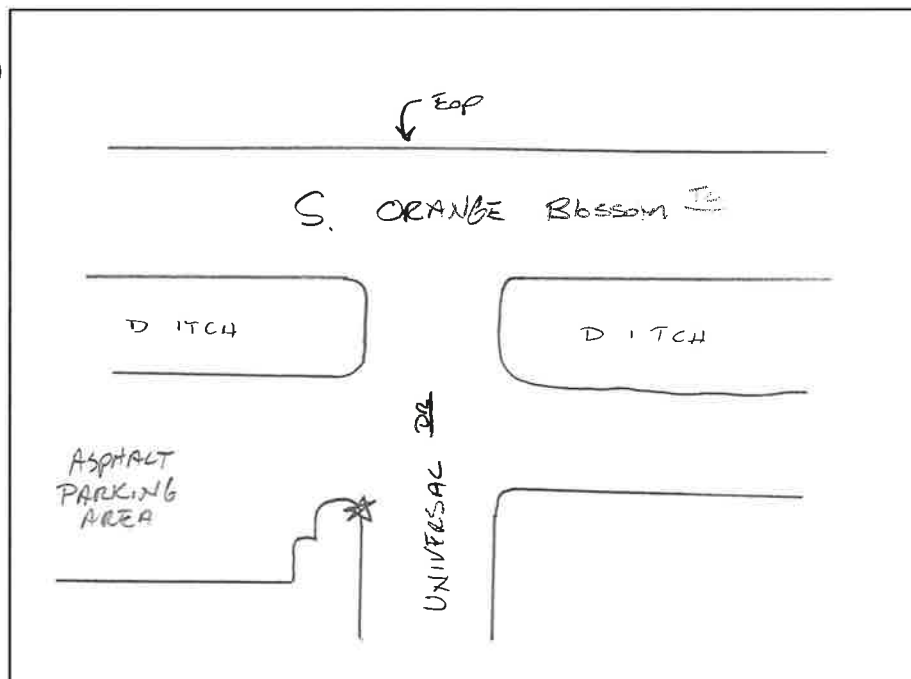
POINT RE-CHECK:

DATE: 3-9-16 TIME: 11:43 AM/PM AM

RE-CHECK PT. NUMBER: NVA58-CHK

DESCRIPTION OF POINT:

P.K NAIL AT CORNER OF PAVEMENT



SKETCH AREA





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-9-16 TIME: 2:00 AM/PM PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 59

STATE: Florida LATITUDE: 28°13'36.19661"N LONGITUDE: 81°32'09.03172"W

ADDRESS and/or INTERSECTION: KINNEY HARMON RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

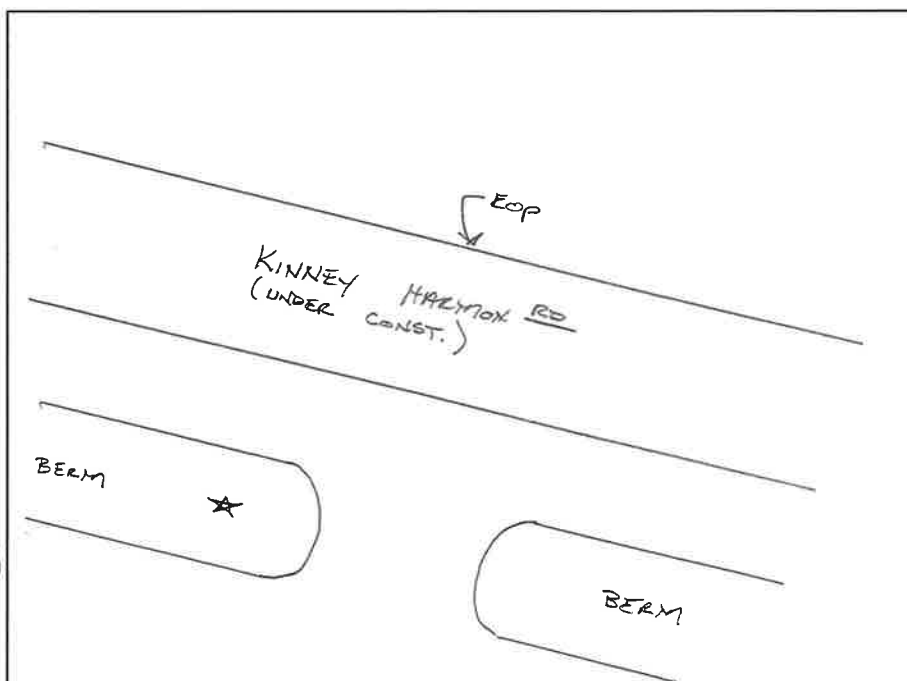
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-10-16 TIME: 1:40 AM/PM PM

RE-CHECK PT. NUMBER: NVA59-CHK



SKETCH AREA

DESCRIPTION OF POINT:

60D ON 50'± WIDE GRASSED BERM



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-8-16 TIME: 4:57 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 60

STATE: Florida LATITUDE: 28°15'37.72764"N LONGITUDE: 81°24'55.95870"W

ADDRESS and/or INTERSECTION: 1528 NATURE TR

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

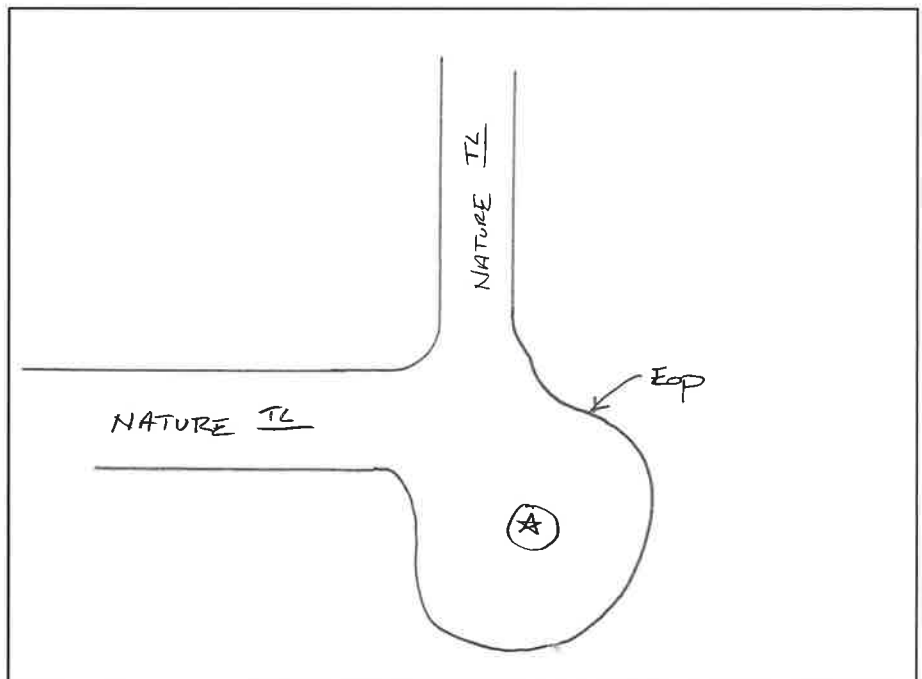
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-9-16 TIME: 11:09 AM/PM

RE-CHECK PT. NUMBER: NVA60-CHK



SKETCH AREA

DESCRIPTION OF POINT:

WOOD IN GRASS AREA IN CNTR. OF CUI-D-SAC





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-9-16 TIME: 3:00 AM/PM (M) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA61

STATE: Florida LATITUDE: 28°10'32.68482"N LONGITUDE: 81°29'14.08305"W

ADDRESS and/or INTERSECTION: ENT. TO BALL PARK ON LAUREL AVE.

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.02' DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

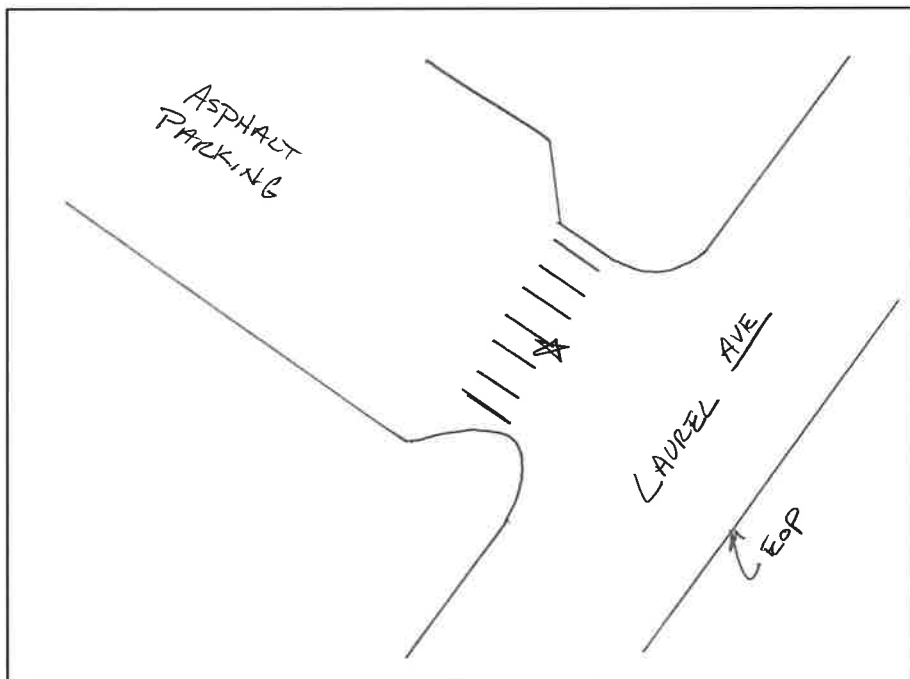
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-10-16 TIME: 8:39 AM/PM (M)

RE-CHECK PT. NUMBER: NVA61-CHK



SKETCH AREA

DESCRIPTION OF POINT:

P.K. NAIL IN CORNER OF CROSSWALK (E OF ENT.)





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-9-16 TIME: 3:41 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 602

STATE: Florida LATITUDE: 28°07'41.53947"N LONGITUDE: 81°27'46.40549"W

ADDRESS and/or INTERSECTION: 601 WALNUT ST

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

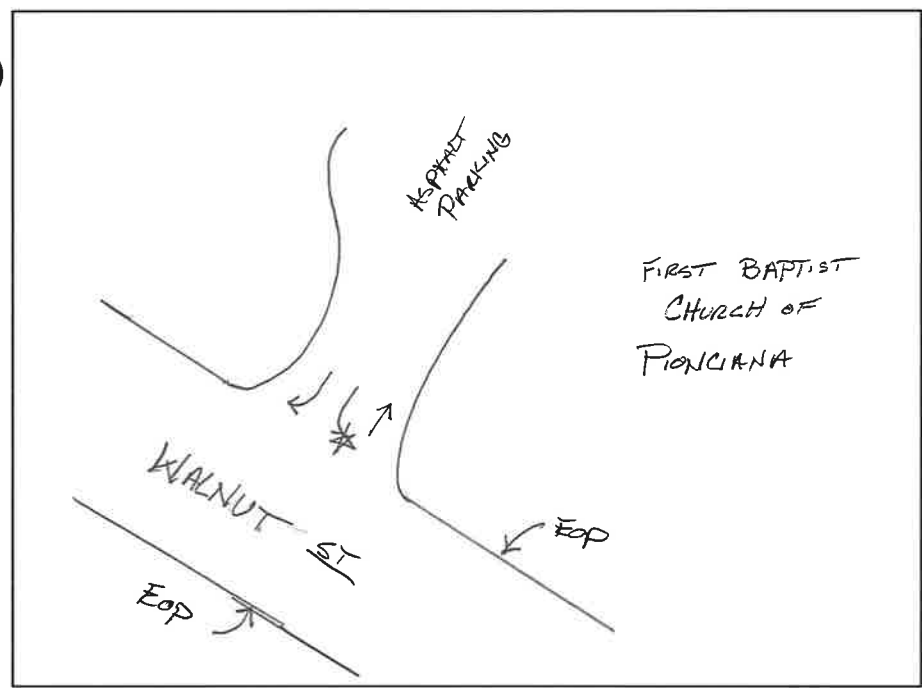
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-10-16 TIME: 8:08 AM/PM

RE-CHECK PT. NUMBER: NVA62-CHK



SKETCH AREA

DESCRIPTION OF POINT:

P.K AT TIP OF TURN ARROW





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-9-16 TIME: 4:11 AM/PM EMPLOYEE NAME: Warren Clark
JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 63
STATE: Florida LATITUDE: 28°10'13.17770" N LONGITUDE: 81°26'21.07545" W
ADDRESS and/or INTERSECTION: 4104 PLEASANT Hill RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN.
☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM
☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

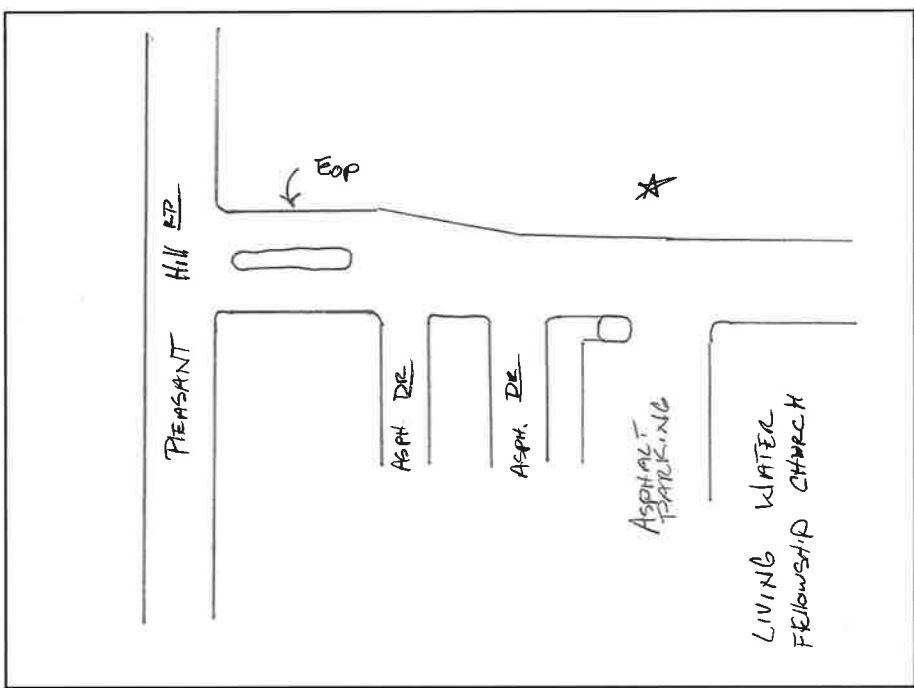
☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-10-16 TIME: 12:13 AM/PM
RE-CHECK PT. NUMBER: NVA 63-CHK



SKETCH AREA

DESCRIPTION OF POINT:

60D IN GRASS AREA



2087/c1



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 10:16 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 64

STATE: Florida LATITUDE: 28°25'44.5011" N LONGITUDE: 81°34'39.70129" W

ADDRESS and/or INTERSECTION: 5570 CENTER DR. (DISNEY UNIV.)

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3. MINS.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

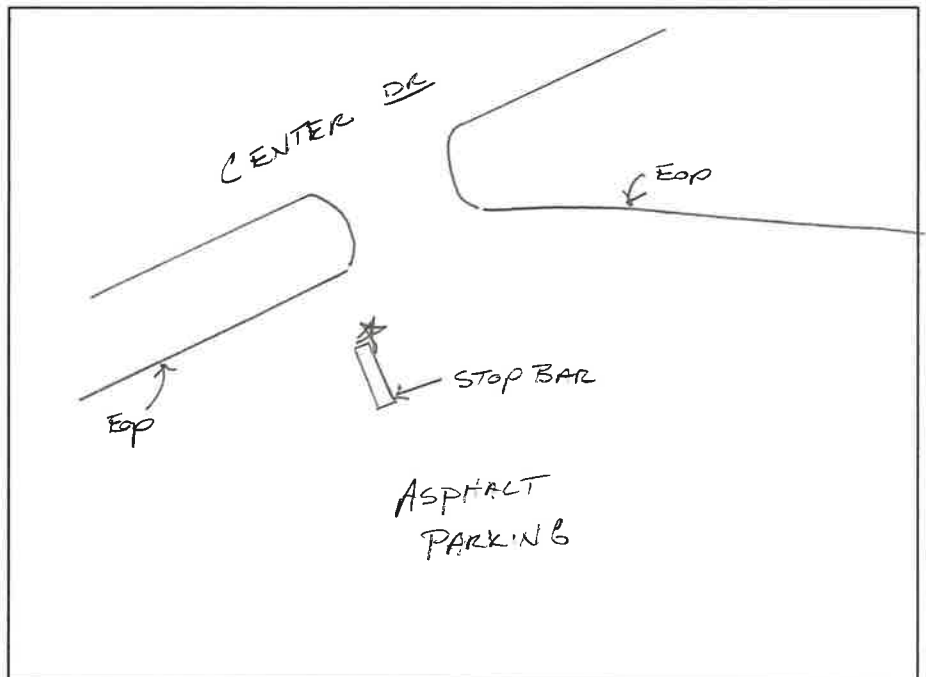
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-11-16 TIME: 2:17 AM/PM

RE-CHECK PT. NUMBER: NVA 64-CHK



SKETCH AREA

DESCRIPTION OF POINT:

P.K. IN TIP OF STOP BAR OF PARKING LOT AT DISNEY UNIV.





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 4:05 AM/PM PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 65

STATE: Florida LATITUDE: 28°07'40.15366"N LONGITUDE: 81°17'17.84438"W

ADDRESS and/or INTERSECTION: MEDIAN TURN AROUND

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

- ☒ Non-Vegetated Vertical Accuracy (NVA-#)
- ☐ Vegetated Vertical Accuracy (VVA-#)

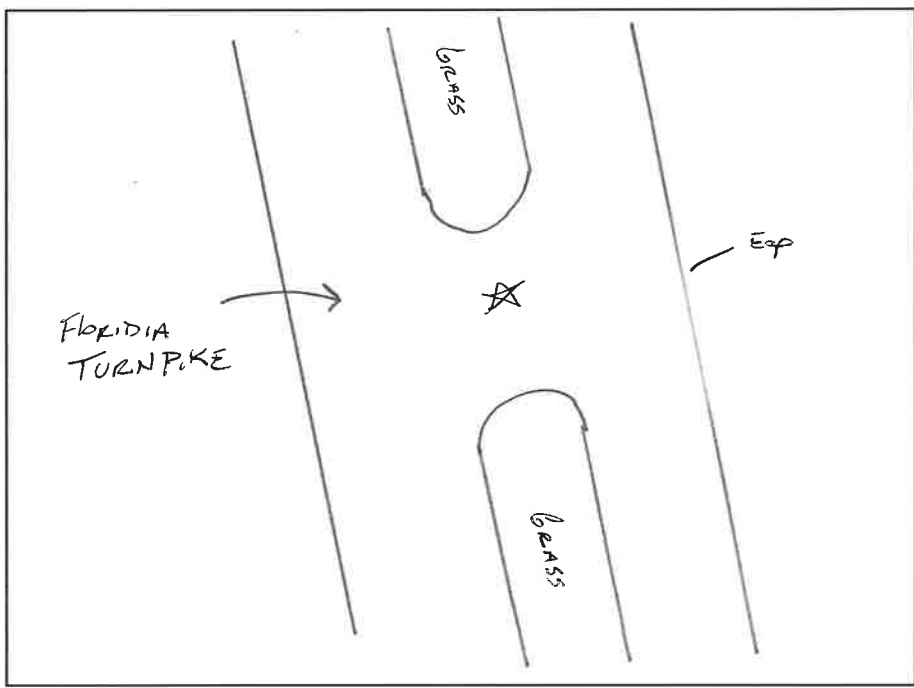
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 1:40 AM/PM PM

RE-CHECK PT. NUMBER: NVA 65-CHK



SKETCH AREA

DESCRIPTION OF POINT:

P.K. NAIL IN CENTER OF TURN-AROUND





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 4:35 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 66

STATE: Florida LATITUDE: 28°04'36.81748"N LONGITUDE: 81°15'12.10395"W

ADDRESS and/or INTERSECTION: CENTER OF MEDIAN TURN

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

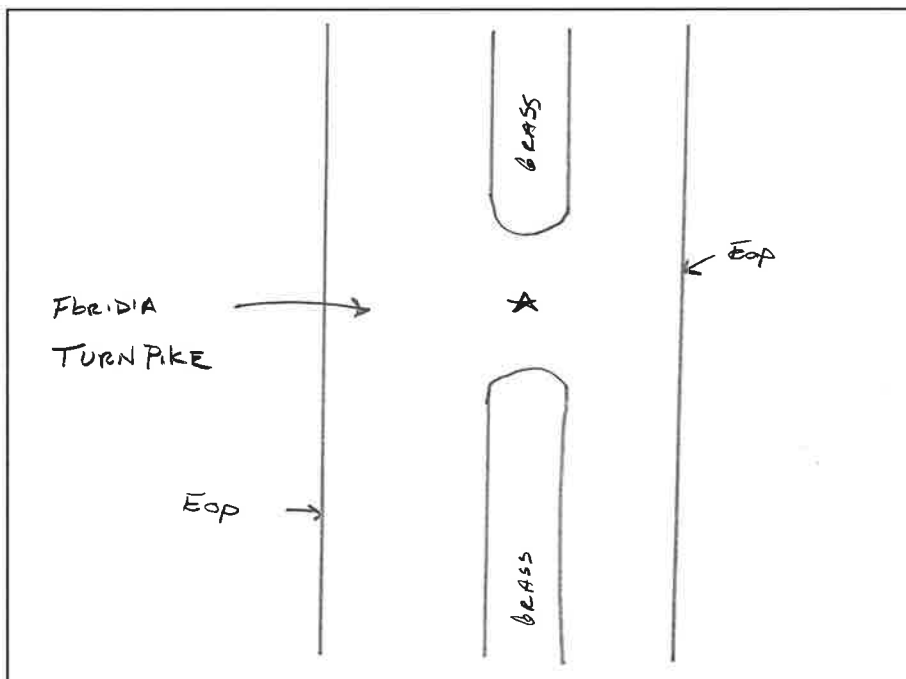
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 1:24 AM/PM AM

RE-CHECK PT. NUMBER: NVA 66-CHK



SKETCH AREA

DESCRIPTION OF POINT:

P.K IN MEDIAN TURN AROUND





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 4:50 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA67

STATE: Florida LATITUDE: 28°01'19.85703"N LONGITUDE: 81°10'56.77987"W

ADDRESS and/or INTERSECTION: CENTER OF MEDIAN TURN AROUND

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

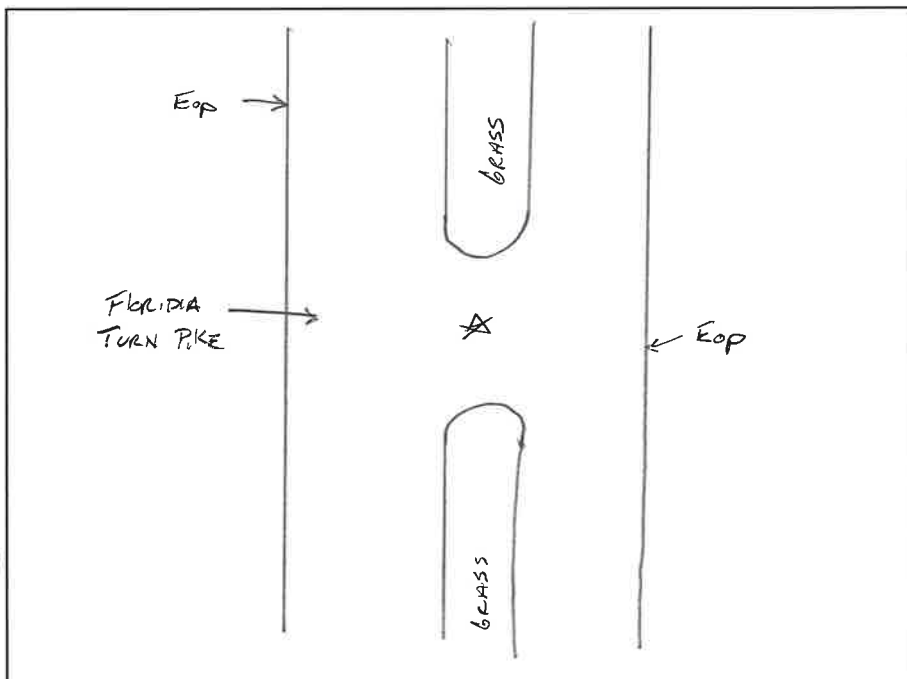
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 1:14 AM/PM

RE-CHECK PT. NUMBER: NVA67-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK NAIL IN CENTER OF TURN AROUND





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 5:05 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 68

STATE: Florida LATITUDE: 27°59'49.20087"N LONGITUDE: 81°08'05.04823"W

ADDRESS and/or INTERSECTION: MEDIAN TURN AROUND

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.02' DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

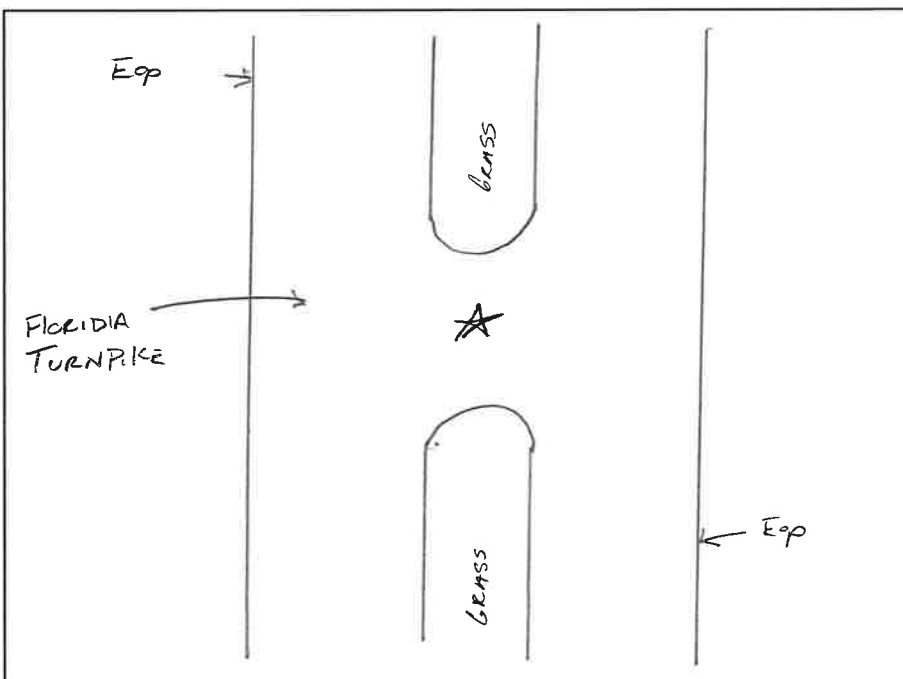
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 1:08 AM/PM

RE-CHECK PT. NUMBER: NVA68-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK NAIL IN CENTER OF TURN AROUND





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CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 5:19 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 69

STATE: Florida LATITUDE: 27° 56' 50.08359" N LONGITUDE: 81° 05' 03.43126" W

ADDRESS and/or INTERSECTION: MEDIAN TURN AROUND

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

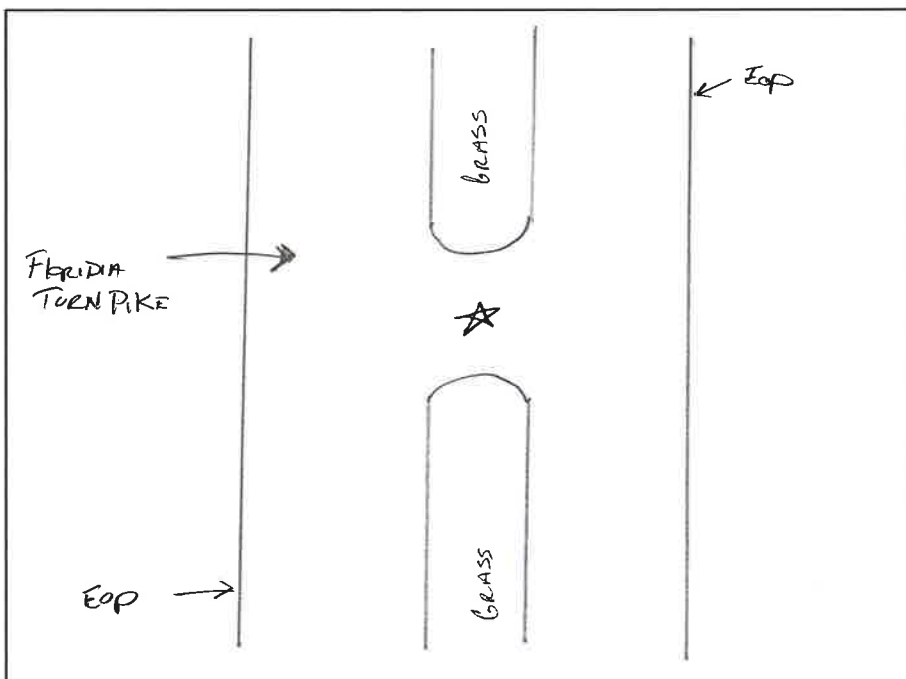
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12 TIME: 12:59 AM/PM AM

RE-CHECK PT. NUMBER: NVA 69-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK NAIL IN CENTER OF TURN AROUND





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 5:29 AM/PM PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 70

STATE: Florida LATITUDE: 27°54'55.21351" N LONGITUDE: 81°03'16.71915" W

ADDRESS and/or INTERSECTION: MEDIAN TURN AROUND

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

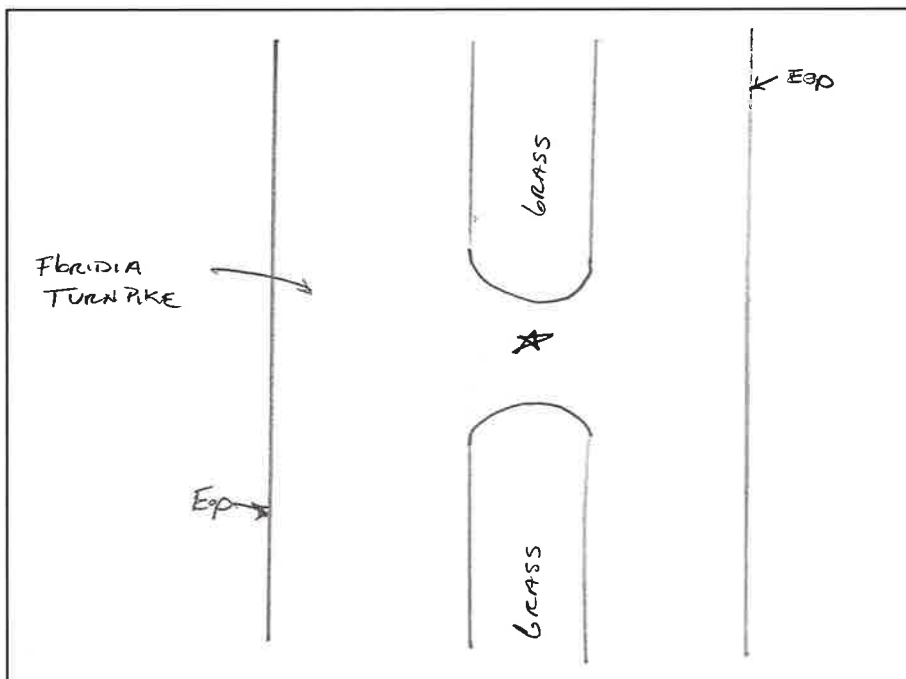
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 12:53 AM/PM PM

RE-CHECK PT. NUMBER: NVA7-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK NAIL IN CENTER OF TURN AROUND





PREBLE-RISH INC
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 5:41 AM/PM (AM) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 71

STATE: Florida LATITUDE: 27°49'20.55447"N LONGITUDE: 81°00'12.79869"W

ADDRESS and/or INTERSECTION: MEDIAN TURN AROUND

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

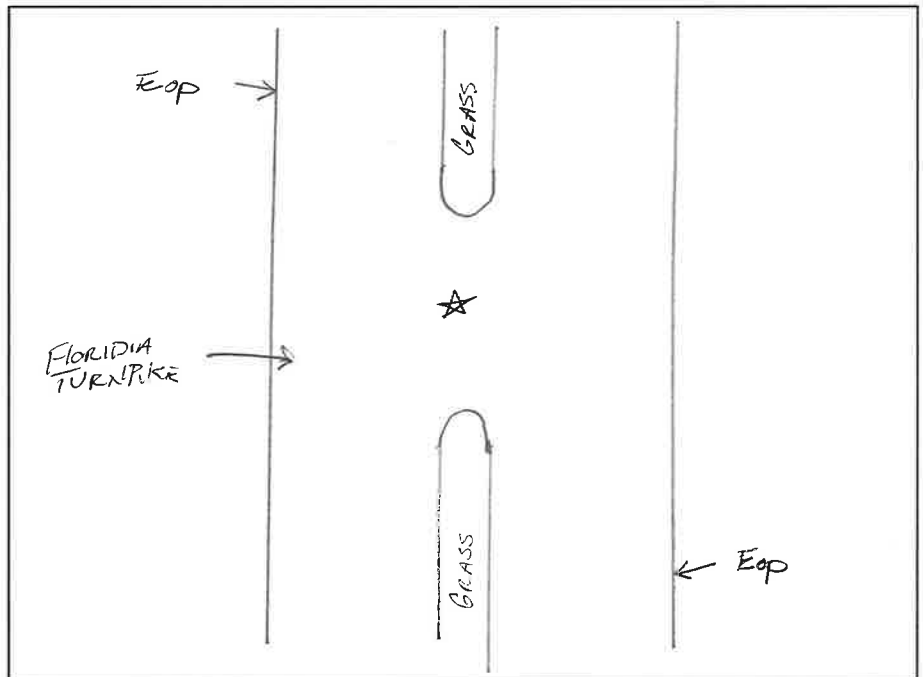
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12 TIME: 12:45 AM/PM (PM)

RE-CHECK PT. NUMBER: NVA71-CHK



SKETCH AREA

DESCRIPTION OF POINT:

CENTER OF MEDIAN TURN AROUND





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 5:52 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 72

STATE: Florida LATITUDE: 27°46'38.03268"N LONGITUDE: 80°58'03.43921"W

ADDRESS and/or INTERSECTION: MEDIAN TURN AROUND

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

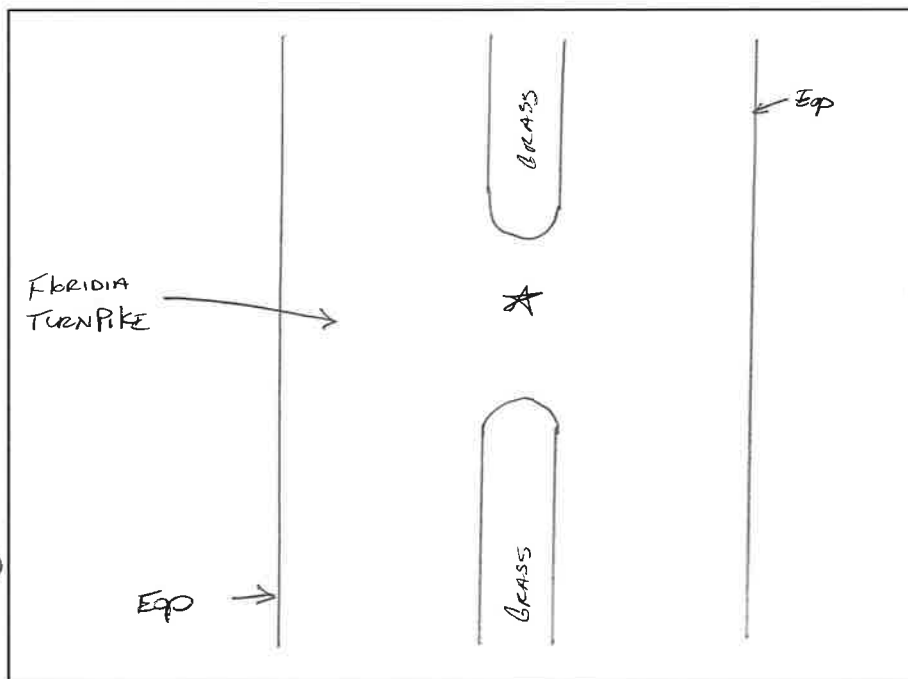
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 12:36 AM/PM

RE-CHECK PT. NUMBER: NVA72-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PR NAIL IN CENTER OF TURN AROUND





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-11-16 TIME: 6:15 AM/PM PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 73

STATE: Florida LATITUDE: 27°41'56.47759"N LONGITUDE: 80°54'06.68741"W

ADDRESS and/or INTERSECTION: 3025 SR 60, OKEECHOBEE

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

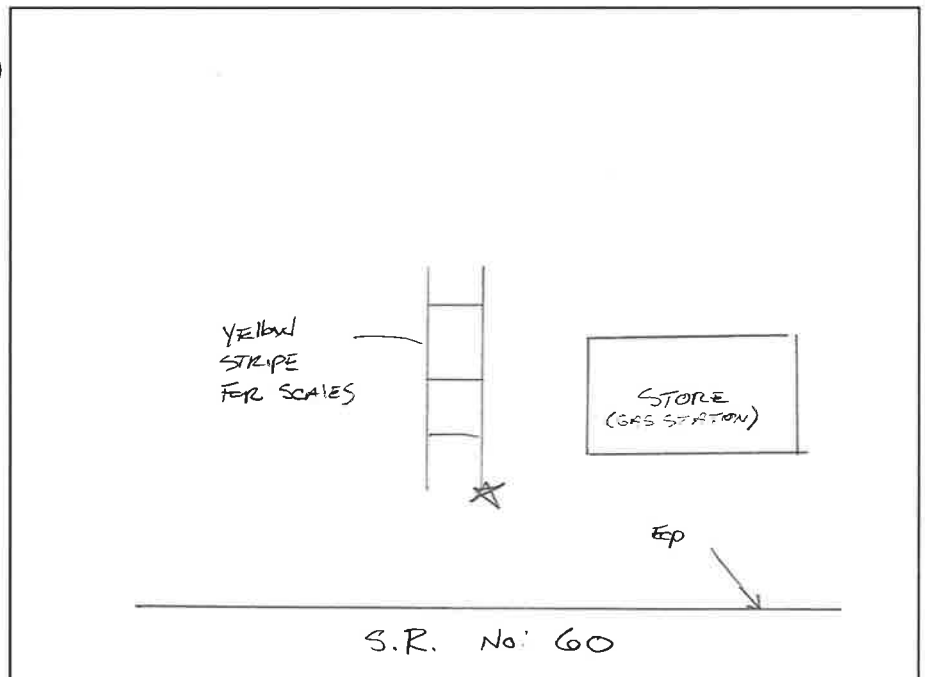
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 11:58 AM/PM AM

RE-CHECK PT. NUMBER: NVA73-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK AT END OF YELLOW STRIPE





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12 TIME: 8:14 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 74

STATE: Florida LATITUDE: 28° 05' 04.17497" N LONGITUDE: 81° 17' 33.80980" W

ADDRESS and/or INTERSECTION: LAKE CYPRESS RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP

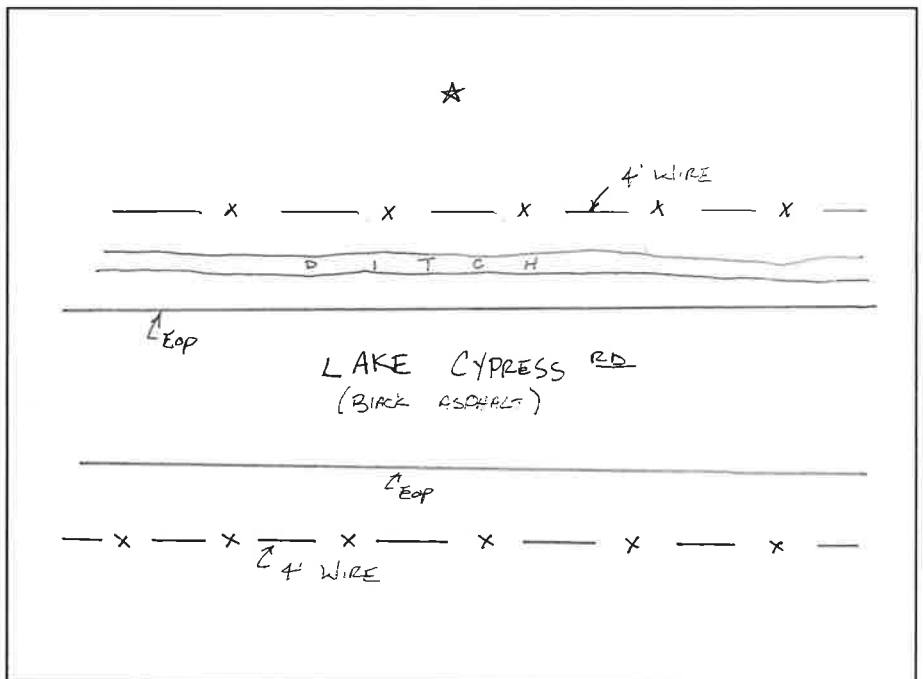
POINT RE-CHECK:

DATE: 3-12-16 TIME: 2:17 AM/PM

RE-CHECK PT. NUMBER: NVA 74-CHK

DESCRIPTION OF POINT:

GOOD IN GRASS AREA



SKETCH AREA





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 12-12-16 TIME: 9:32 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 75

STATE: Florida LATITUDE: 27°54'47.97551" N LONGITUDE: 81°06'34.10702" W

ADDRESS and/or INTERSECTION: N. CANE CREEK RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

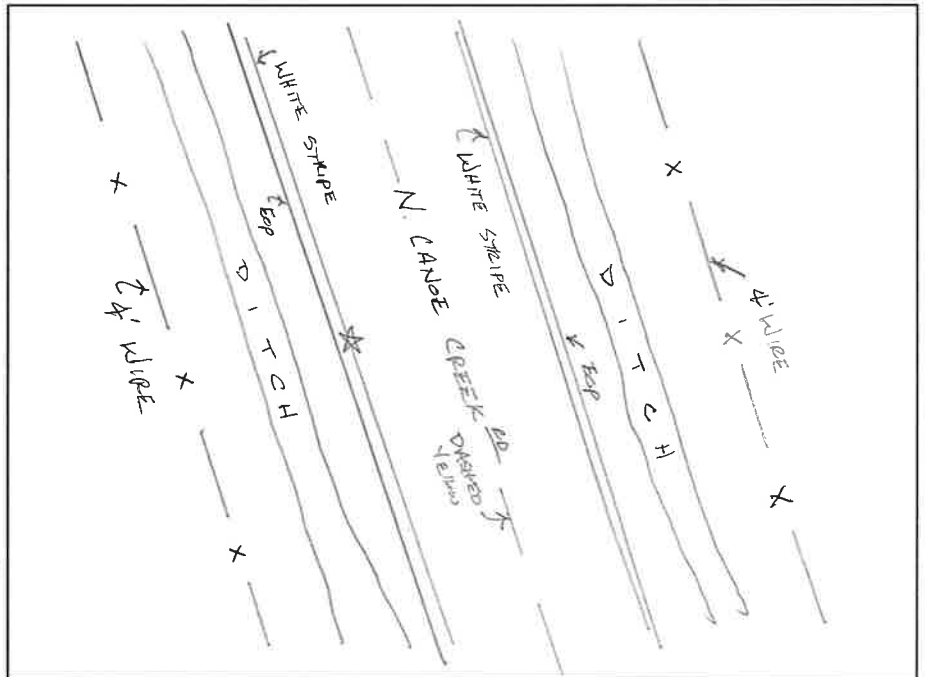
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 12-12-16 TIME: 3:11 AM/PM

RE-CHECK PT. NUMBER: NVA75-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK IN WHITE STRIPE





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 9:45 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 76

STATE: Florida LATITUDE: 27°52'35.87977"N LONGITUDE: 81°02'35.42832"W

ADDRESS and/or INTERSECTION: S. CANOE CREEK & ARNOLD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

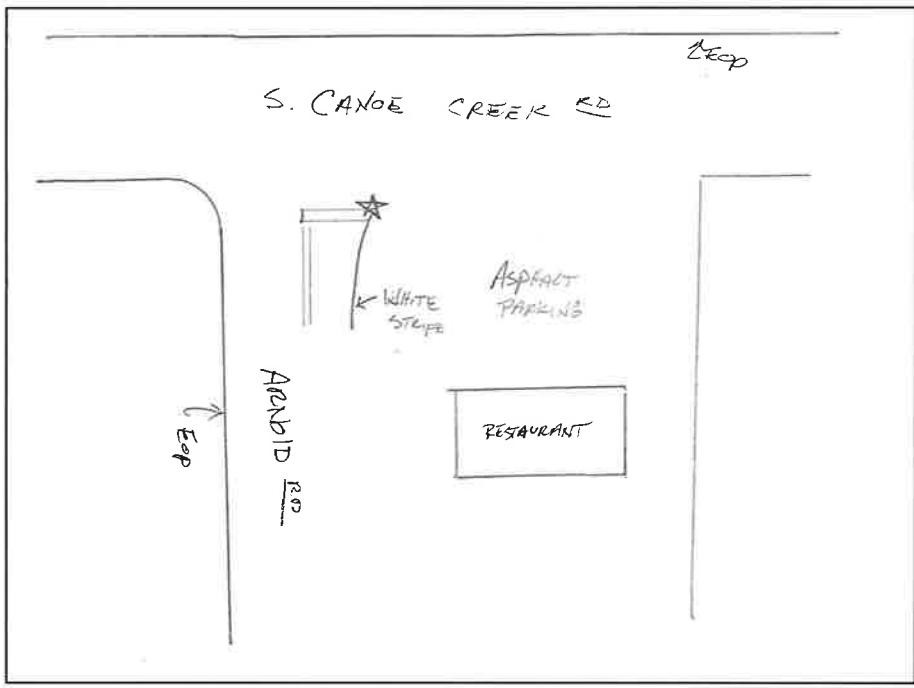
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 3:25 AM/PM

RE-CHECK PT. NUMBER: NVA76-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK IN CORNER OF STOP BAR





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 10:07 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 77

STATE: Florida LATITUDE: 27°52'15.71999"N LONGITUDE: 80°59'06.60710"W

ADDRESS and/or INTERSECTION: S. KENANSVILLE RD & FELLSMERE RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

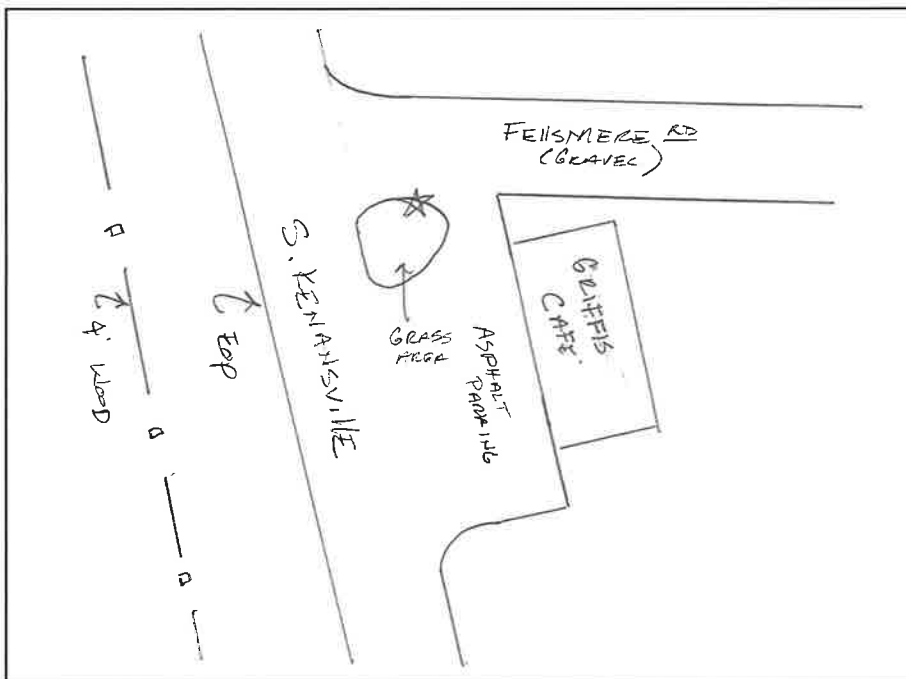
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 3:43 AM/PM

RE-CHECK PT. NUMBER: NVA77-CHK



SKETCH AREA

DESCRIPTION OF POINT:

WOOD IN GRASS ISLAND





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 10:19 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA78

STATE: Florida LATITUDE: 27°49'26.57708"N LONGITUDE: 80°57'30.53326"W

ADDRESS and/or INTERSECTION: S. KENANSVILLE RD

OBSERVATION METHOD:

☐ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

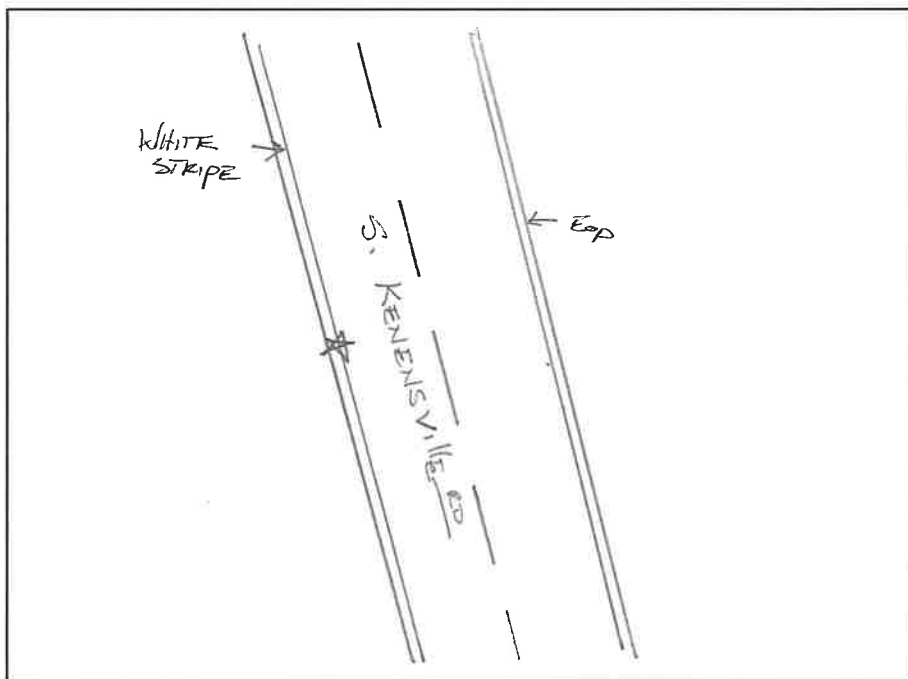
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 3:52 AM/PM

RE-CHECK PT. NUMBER: NVA78-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK NAIL IN WHITE STRIPE





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 10:35 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA79

STATE: Florida LATITUDE: 27°46'46.11901"N LONGITUDE: 80°55'29.15259"W

ADDRESS and/or INTERSECTION: S. KENANSVILLE RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.02 V: 0.03 DURATION: 2 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

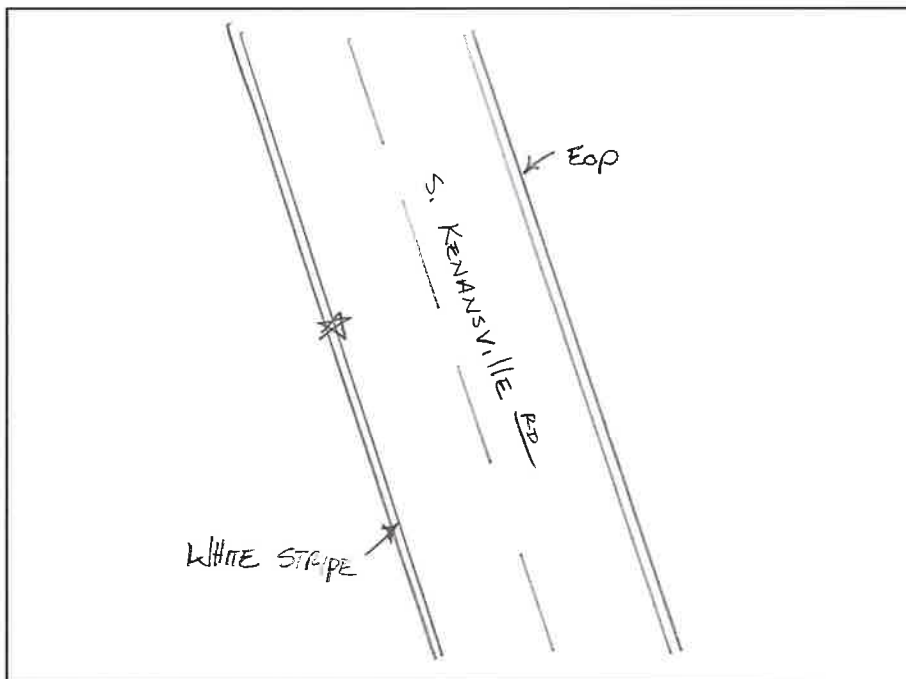
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-13 TIME: 4:00 AM/PM

RE-CHECK PT. NUMBER: NVA79-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PR NAK IN WHITE STRIPE





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 11:40 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA80

STATE: Florida LATITUDE: 27°38'32.59014"N LONGITUDE: 80°52'29.51260"W

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: _____ V: _____ DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

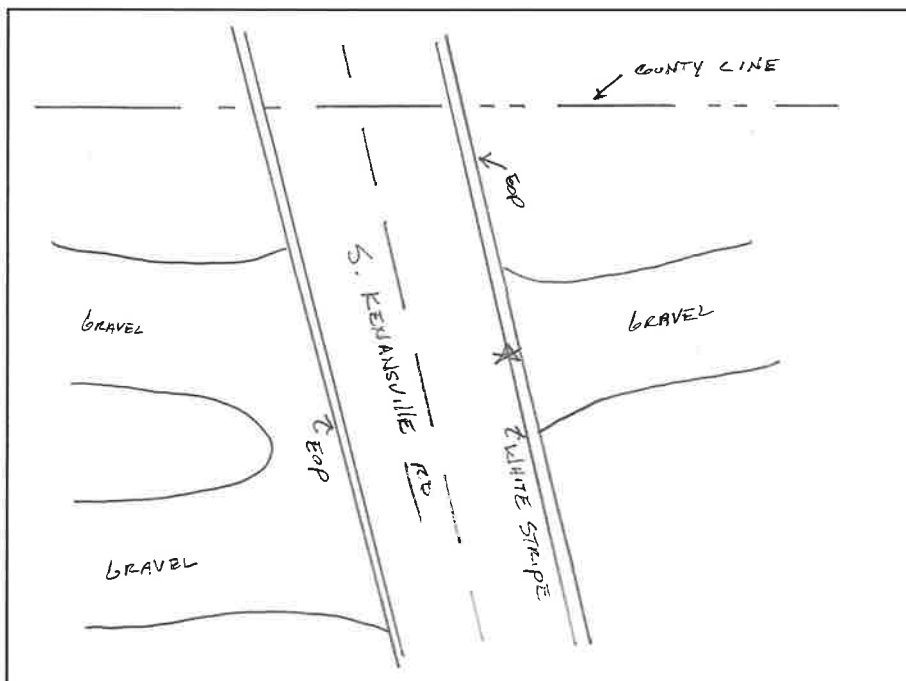
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-12-16 TIME: 4:30 AM/PM

RE-CHECK PT. NUMBER: NVA80-CHK



SKETCH AREA

DESCRIPTION OF POINT:

PK IN WHITE STRIPE & GRAVEL DR &





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 12/12/16 TIME: 4:55 AM/PM PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA81

STATE: Florida LATITUDE: 27°43'13.47915"N LONGITUDE: 80°57'55.93300"W

ADDRESS and/or INTERSECTION: SR 60

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.02 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

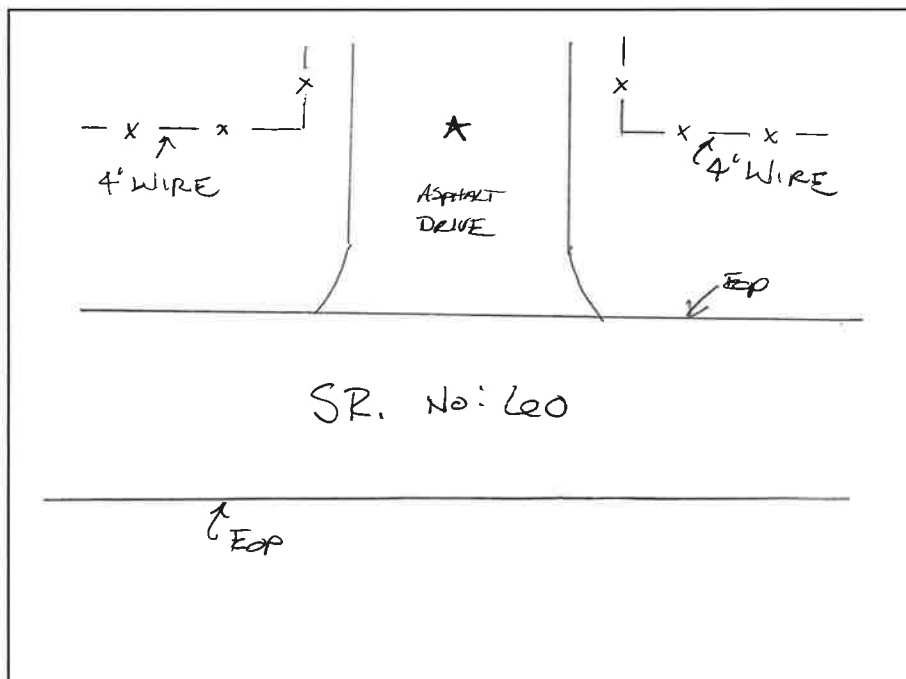
TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

☒ PICTURE(S) OF AREA & SETUP



POINT RE-CHECK:

DATE: 3-13-16 TIME: 4:33 AM/PM PM

RE-CHECK PT. NUMBER: NVA81-CHK

DESCRIPTION OF POINT:

PK NAK IN CENTER OF ASPHALT DRIVE

SKETCH AREA





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 5:14 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA82

STATE: Florida LATITUDE: 27°44'00.29091"N LONGITUDE: 81°01'24.77506"W

ADDRESS and/or INTERSECTION: PEAVINE RD & SR 60

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

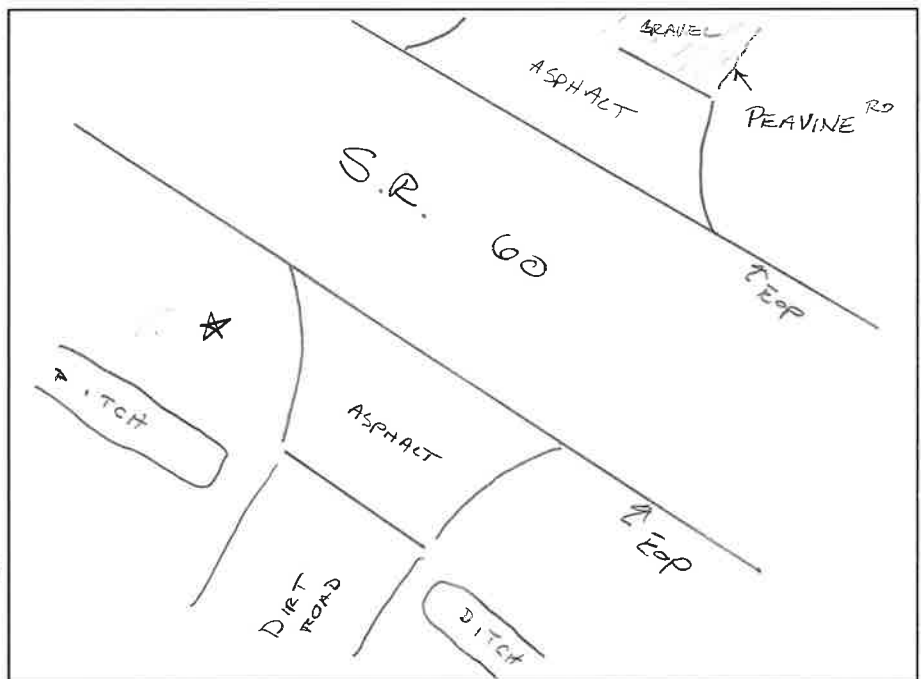
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-13-16 TIME: 4:47 AM/PM AM

RE-CHECK PT. NUMBER: NVA82-CHK



SKETCH AREA

DESCRIPTION OF POINT:

POD IN GRASS AREA





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 9:38 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 83

STATE: Florida LATITUDE: 27°59'04.35274" N LONGITUDE: 81°10'51.64088" W

ADDRESS and/or INTERSECTION: JOE OVERSTREET RD & VIDA RANCH RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

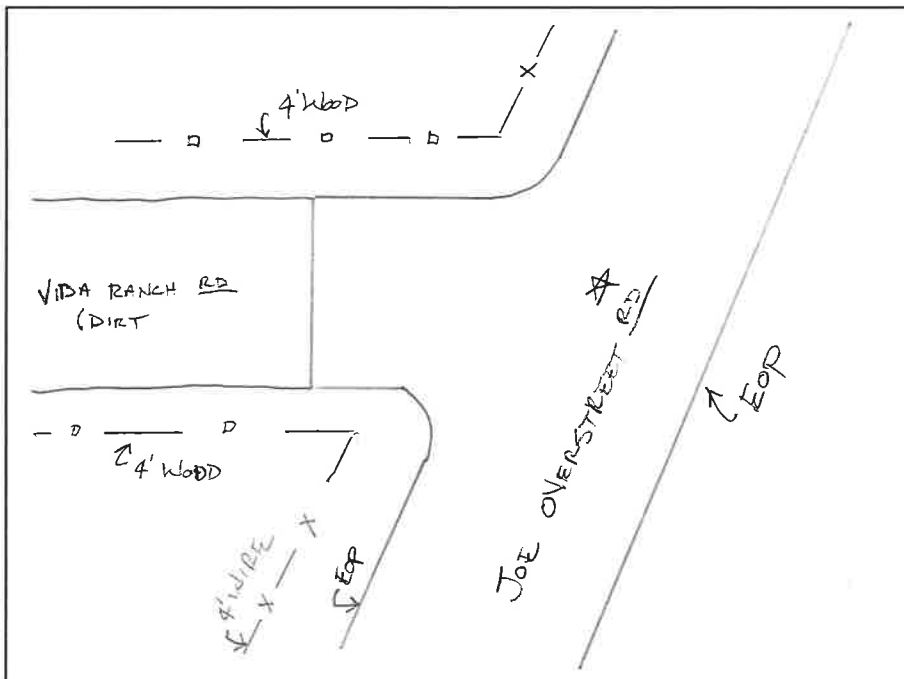
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-13-16 TIME: 7:35 AM/PM

RE-CHECK PT. NUMBER: NVA 83



SKETCH AREA

DESCRIPTION OF POINT:

P.R. MARK AT INT.





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 10:46 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA84

STATE: Florida LATITUDE: 27°57'26.43081"N LONGITUDE: 81°11'42.34998"W

ADDRESS and/or INTERSECTION: JOE OVERSTREET RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.01' DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

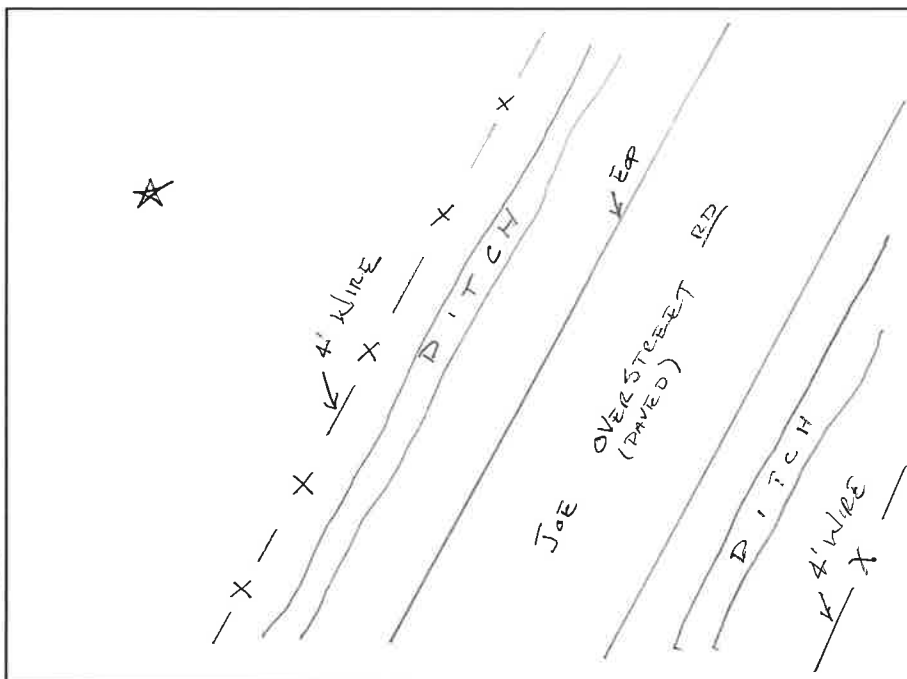
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-13-16 TIME: 7:29 AM/PM

RE-CHECK PT. NUMBER: NVA84-CHK



SKETCH AREA

DESCRIPTION OF POINT:

WOOD IN GRASS FIELD





PREBLE-RISH INC.
CONSULTING ENGINEERS & SURVEYORS

GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 12:49 AM/PM (P) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA85

STATE: Florida LATITUDE: 27°50'59.89939"N LONGITUDE: 81°02'44.38377"W

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01' V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

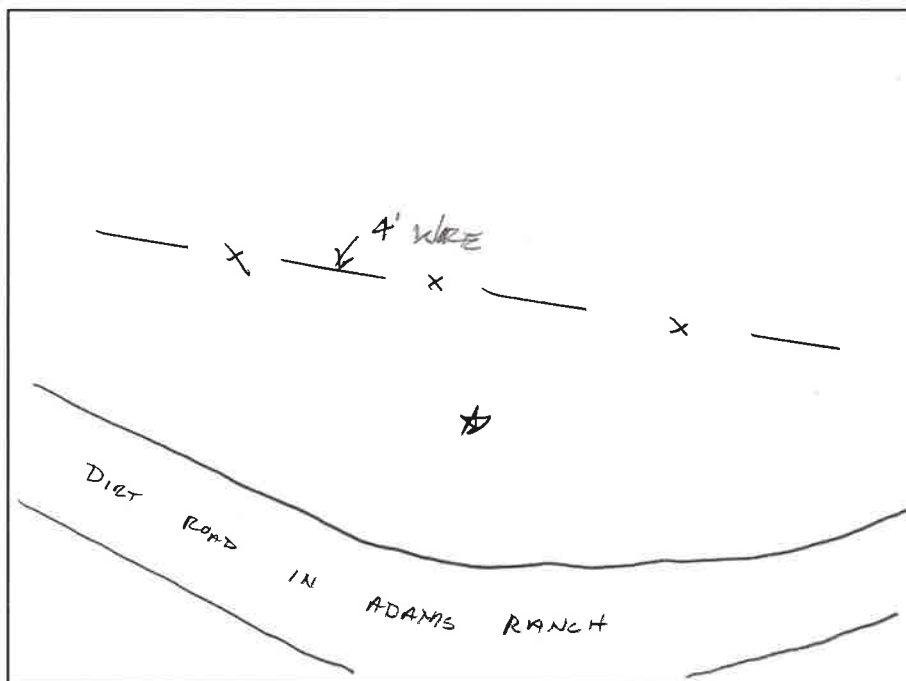
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3-15-16 TIME: 11:10 AM/PM (P)

RE-CHECK PT. NUMBER: NVA85-CHK



SKETCH AREA

DESCRIPTION OF POINT:

GOOD IN GRASS



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/17/16 TIME: 0758 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-86

STATE: Florida LATITUDE: 28°14'03.80712 LONGITUDE: 81°11'22.73021"

ADDRESS and/or INTERSECTION: ALLIGATOR LAKE SHORE E CULDESAC

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

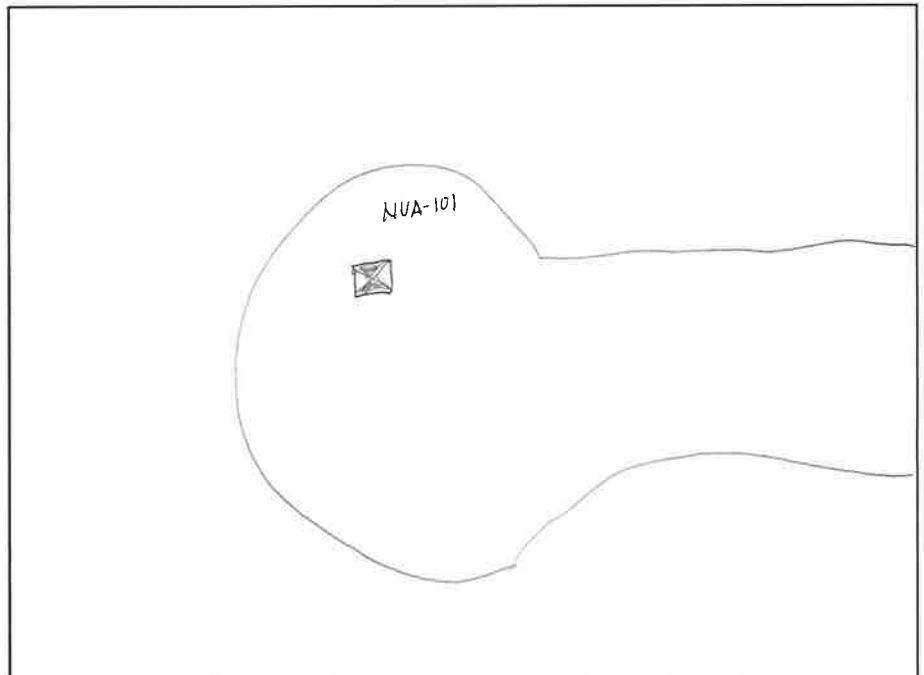
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC IN THE MIDDLE OF TARGET.



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/17/16 TIME: 0830 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-87

STATE: Florida LATITUDE: 28°07'53.10125 LONGITUDE: 81°00'32.31211"

ADDRESS and/or INTERSECTION: 1110 BRONSON MEMORIAL PRWY

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

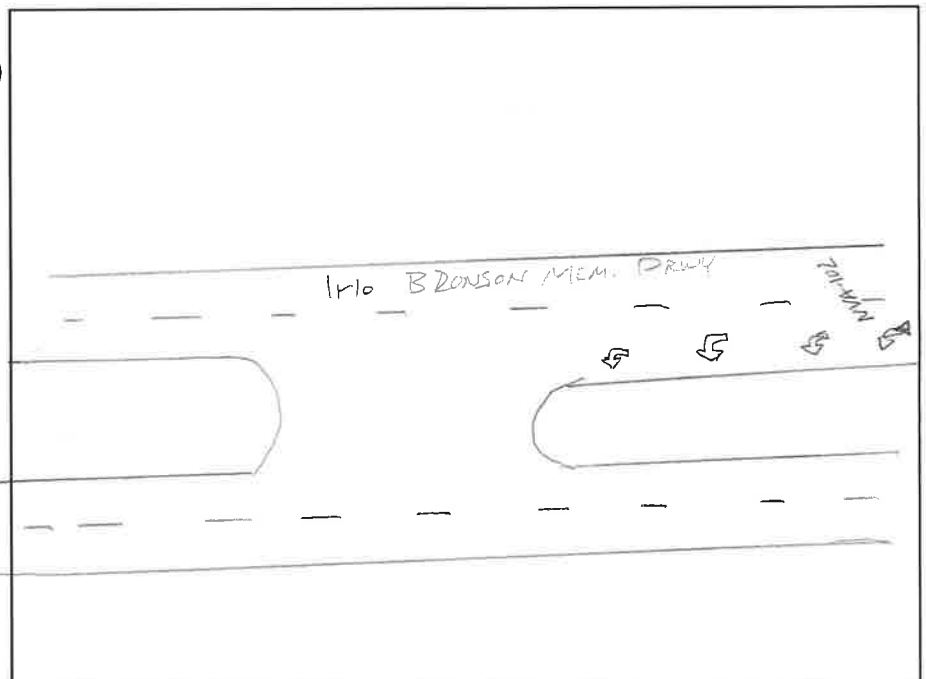
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC IN TURN ARROW



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/17/16 TIME: 0847 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-88

STATE: Florida LATITUDE: 28°06'04.92717 LONGITUDE: 80°53'52.47189"

ADDRESS and/or INTERSECTION: E BRONSON BRWY & DEER PARK RD

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

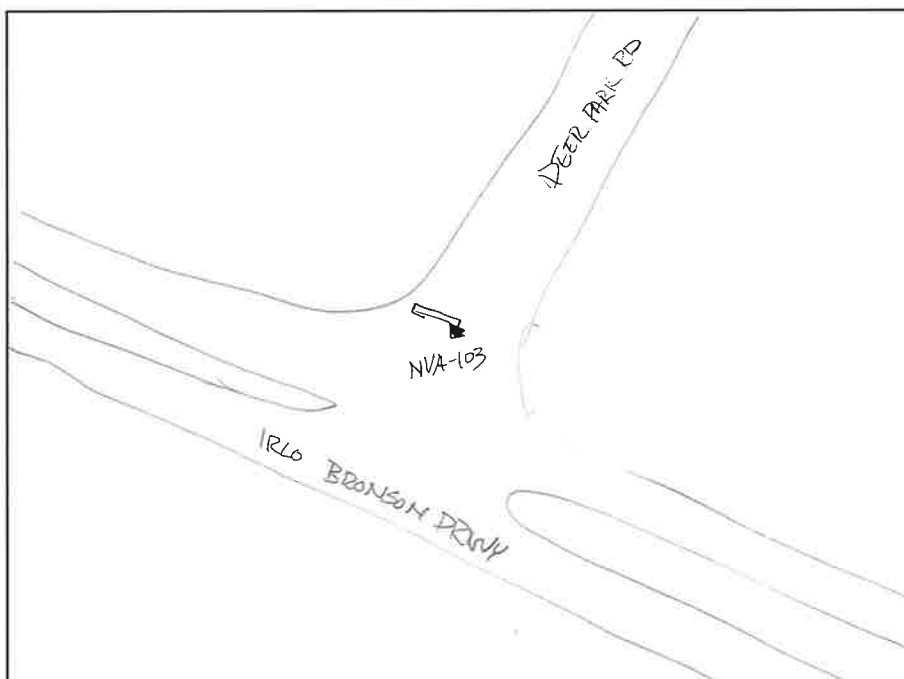
☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT: _____



SKETCH AREA



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/17/16 TIME: 0946 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA-89

STATE: Florida LATITUDE: 28°16'56.94040" LONGITUDE: 80°55'23.10096

ADDRESS and/or INTERSECTION: NOVA RD AND DEER PARK RD

OBSERVATION METHOD:

☒ AVRS GPS RMS: _____ H: 0.01 V: 0.02 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

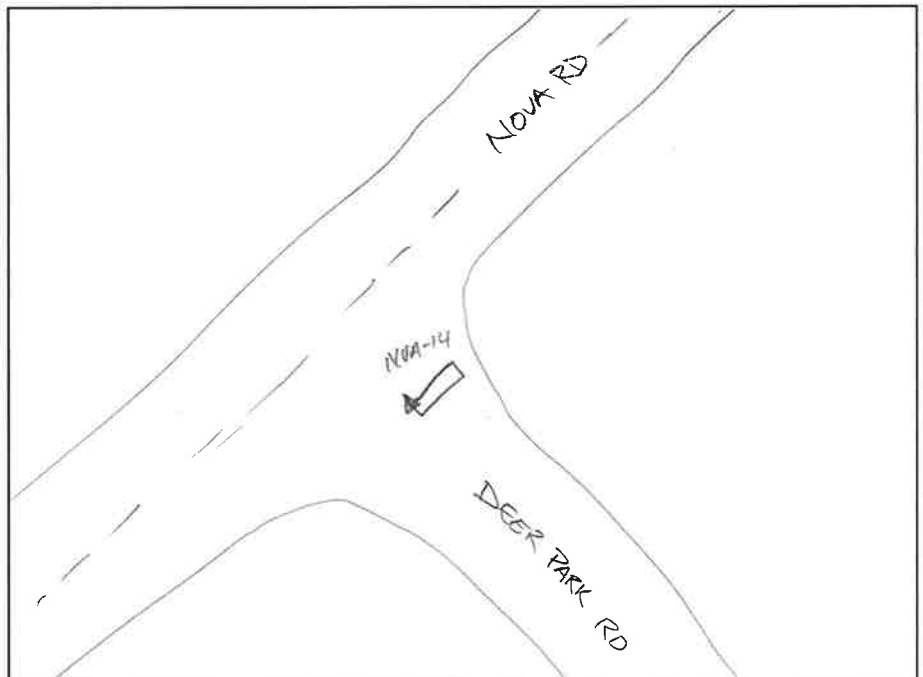
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

NAIL AND DISC IN STOP BAR



GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/17/16 TIME: 1021 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA - 90

STATE: Florida LATITUDE: 28°16'06.10138 LONGITUDE: 81°11'24.53947"

ADDRESS and/or INTERSECTION: NOVA PARK CT AND OAK SHORE DR.

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

PICTURES:

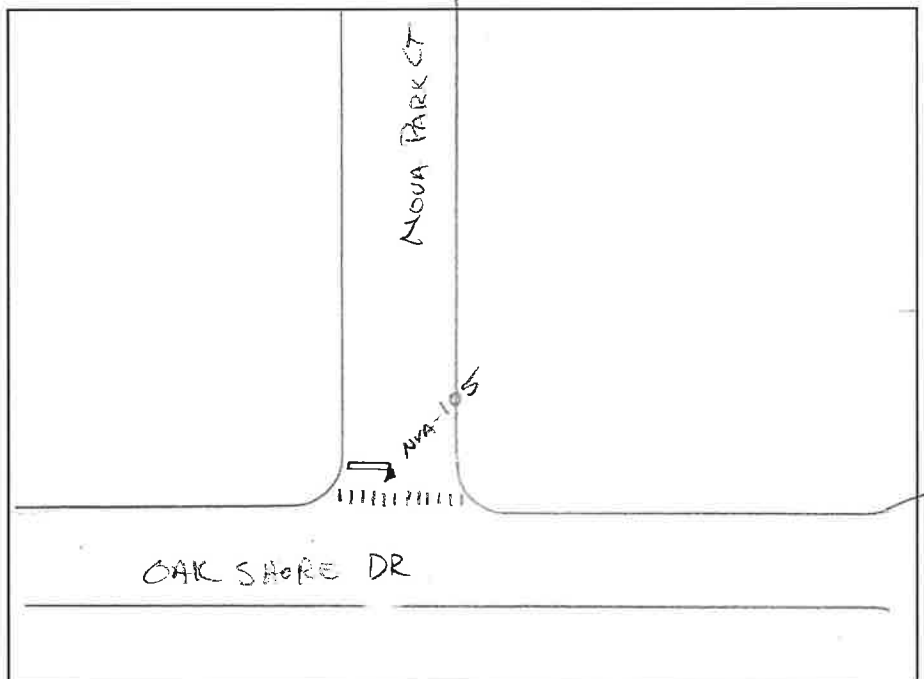
☐ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

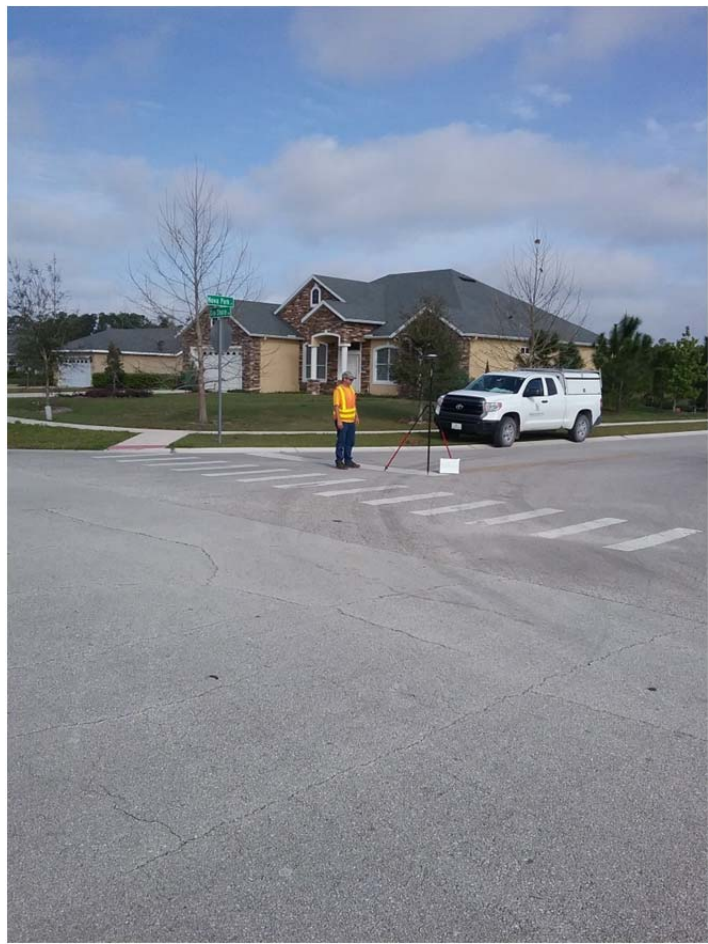
DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____

DESCRIPTION OF POINT: _____



SKETCH AREA





PREBLE-RISH INC.
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GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-17-16 TIME: 9:20 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 91

STATE: Florida LATITUDE: 28°09'13.20223"N LONGITUDE: 81°26'18.35595"W

ADDRESS and/or INTERSECTION: 4541 PLEASANT HILL RD (SOUTHPORT PLAZA)

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT _____ / _____ ☐ FS #/HT _____ / _____

☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE _____

☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

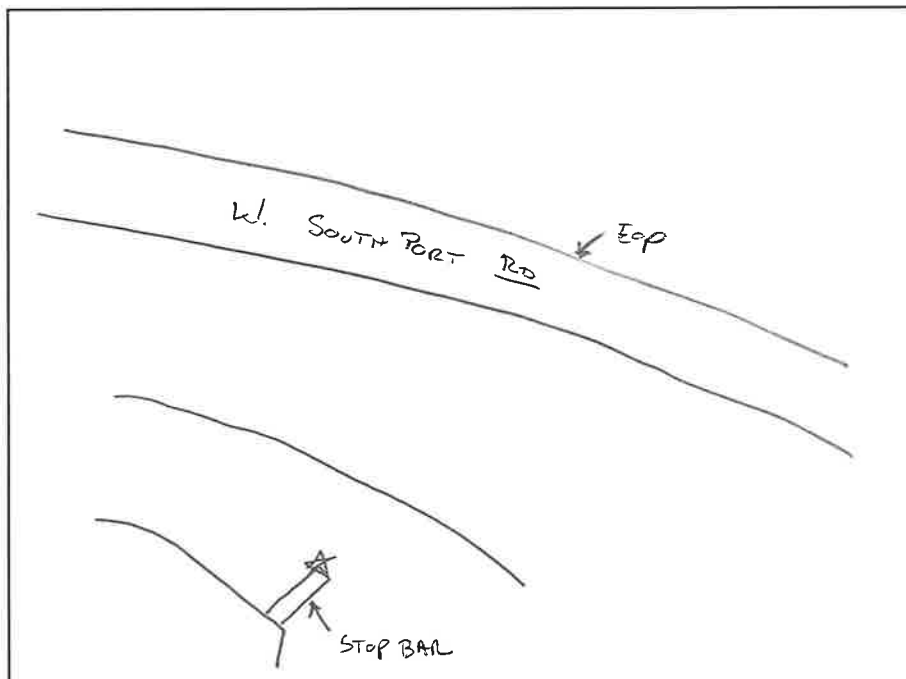
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

PK NAIL IN STOP BAR





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-16-16 TIME: 3:36 AM/PM (PM) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: NVA 92

STATE: Florida LATITUDE: 27°52'34.70026"N LONGITUDE: 80°59'16.23314"W

ADDRESS and/or INTERSECTION: _____

OBSERVATION METHOD:

☒ VRS GPS RMS: _____ H: 0.02 V: 0.03 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: _____ AM/PM END: _____ AM/PM

☐ CONVENTIONAL PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____
PT. No. _____ RMS: _____ H: _____ V: _____ DURATION: _____

(20 MIN) PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM
PT. No. _____ START TIME: _____ AM/PM END: _____ AM/PM

☐ OCCUPIED #/HT: _____ / _____ ☐ BS #/HT: _____ / _____ ☐ FS #/HT: _____ / _____
☐ BACK SITE DISTANCE: _____ ☐ ANGLE: _____ ☐ FS DISTANCE: _____
☐ FS ANGLE: _____ VERT. ANG: _____ SLOPE DIST.: _____ HORZ. DIST.: _____

TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)
☐ Vegetated Vertical Accuracy (VVA-#)

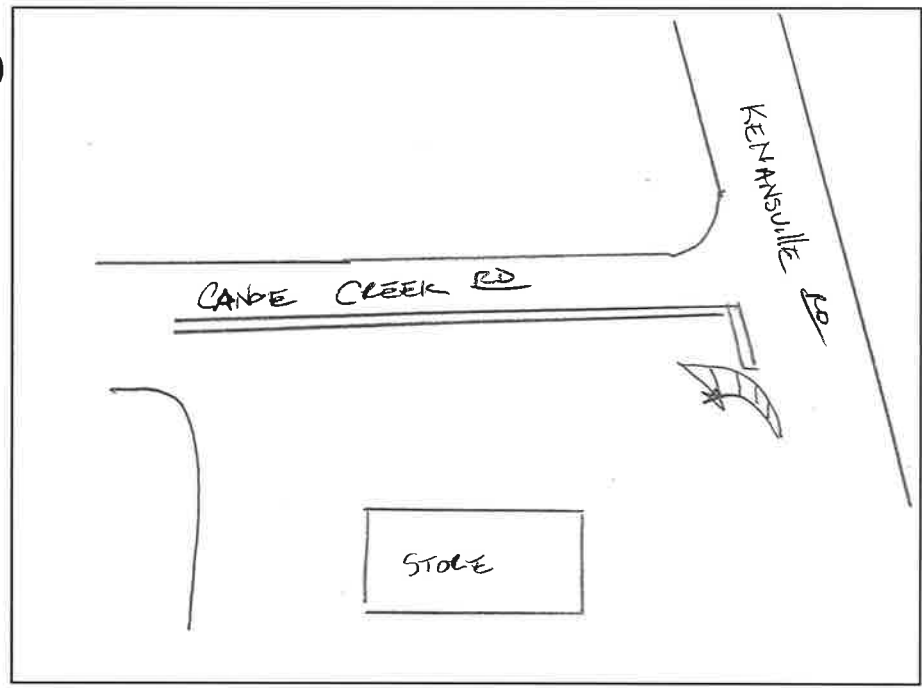
PICTURES:

☒ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: _____ TIME: _____ AM/PM

RE-CHECK PT. NUMBER: _____



SKETCH AREA

DESCRIPTION OF POINT:

PK IN CORNER OF HATCHING

