



**Survey Control Report for
Lubbock Orthophotography**

Robby Christopher, RPLS, LSLs
April 23rd, 2020



Introduction

This control report is a record of the observed control for the City of Lubbock's Orthophotography Project. Bohannon Huston provided Hugo Reed and Associates (HRA) with the previous control. This control was surveyed, repaneled, and replaced where necessary. Some of the Bohannon Huston Control, noted as "BH" in the following control sheets, were found to have been destroyed/disturbed and were reset by HRA for this project. The new control was stamped with the control point number. The control was established with a Virtual Reference Station, Real-Time Kinematic, averaged double observations.

Project Control Specifications

Units:	US Survey Foot
Horizontal Datum:	NAD83(2011) EPOCH:2010
Vertical Datum:	NAVD88
Geoid Model:	Geoid 18
Projection:	Lambert Conformal
State Plane Zone:	Texas North-Central (4202)
Basis of Bearing:	Grid Bearings
Field Methodology:	VRS and RTK
Equipment Used:	Leica GPS Equipment
Control Set Date:	April 7 - April 23, 2020
Observation Date:	April 7 - April 23, 2020
Adjustment Publication Date:	April 23rd, 2020

Coordinates are relative to the Texas Coordinate System of 1983 (2011) Epoch 2010.0, North-Central Zone, U.S. Survey Feet.

Surveyed on the ground,
April 23rd, 2020



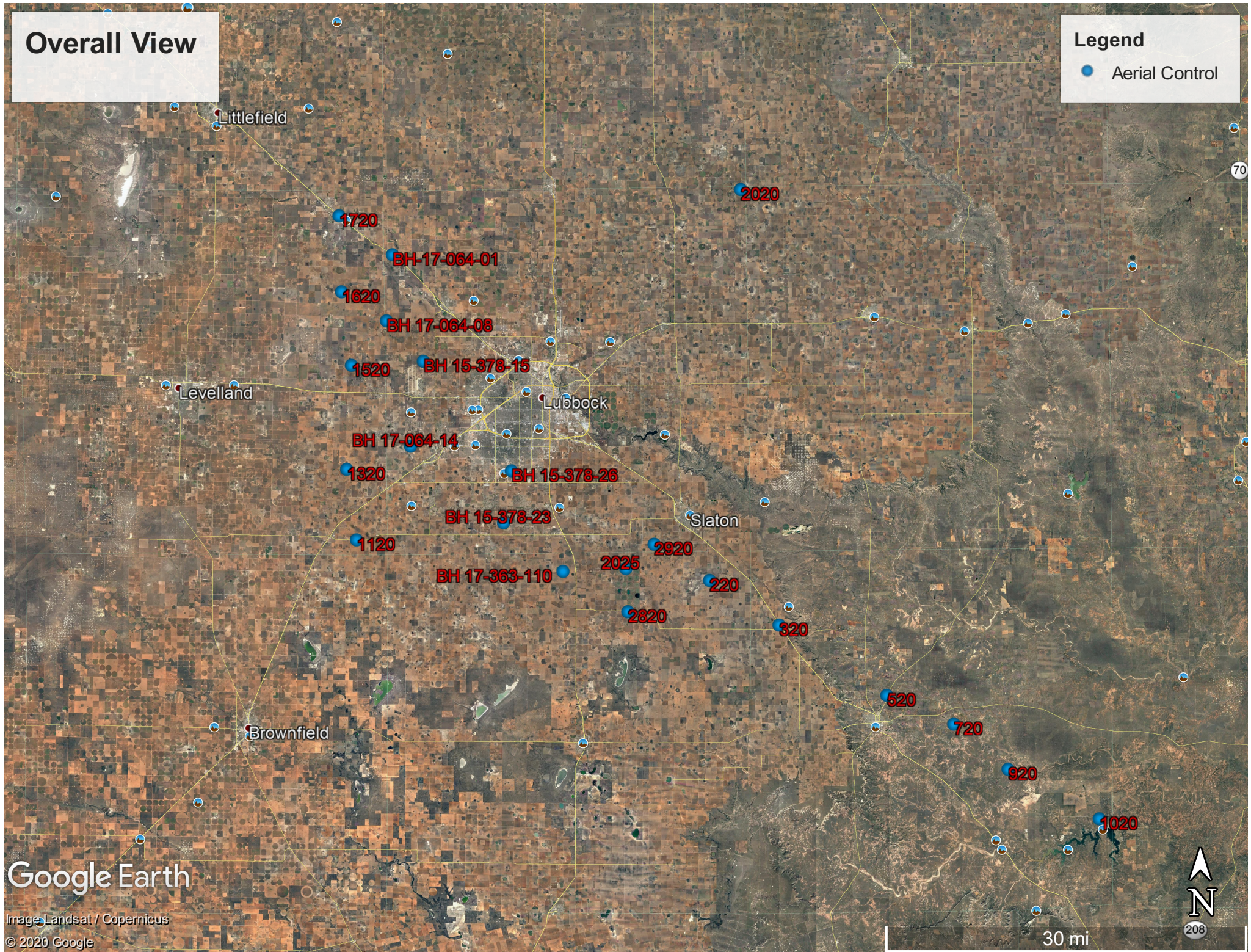
Robert A. Christopher
Registered Professional Land Surveyor No. 5167
Licensed State Land Surveyor
State of Texas



Overall View

Legend

- Aerial Control



Google Earth

Image Landsat / Copernicus
© 2020 Google

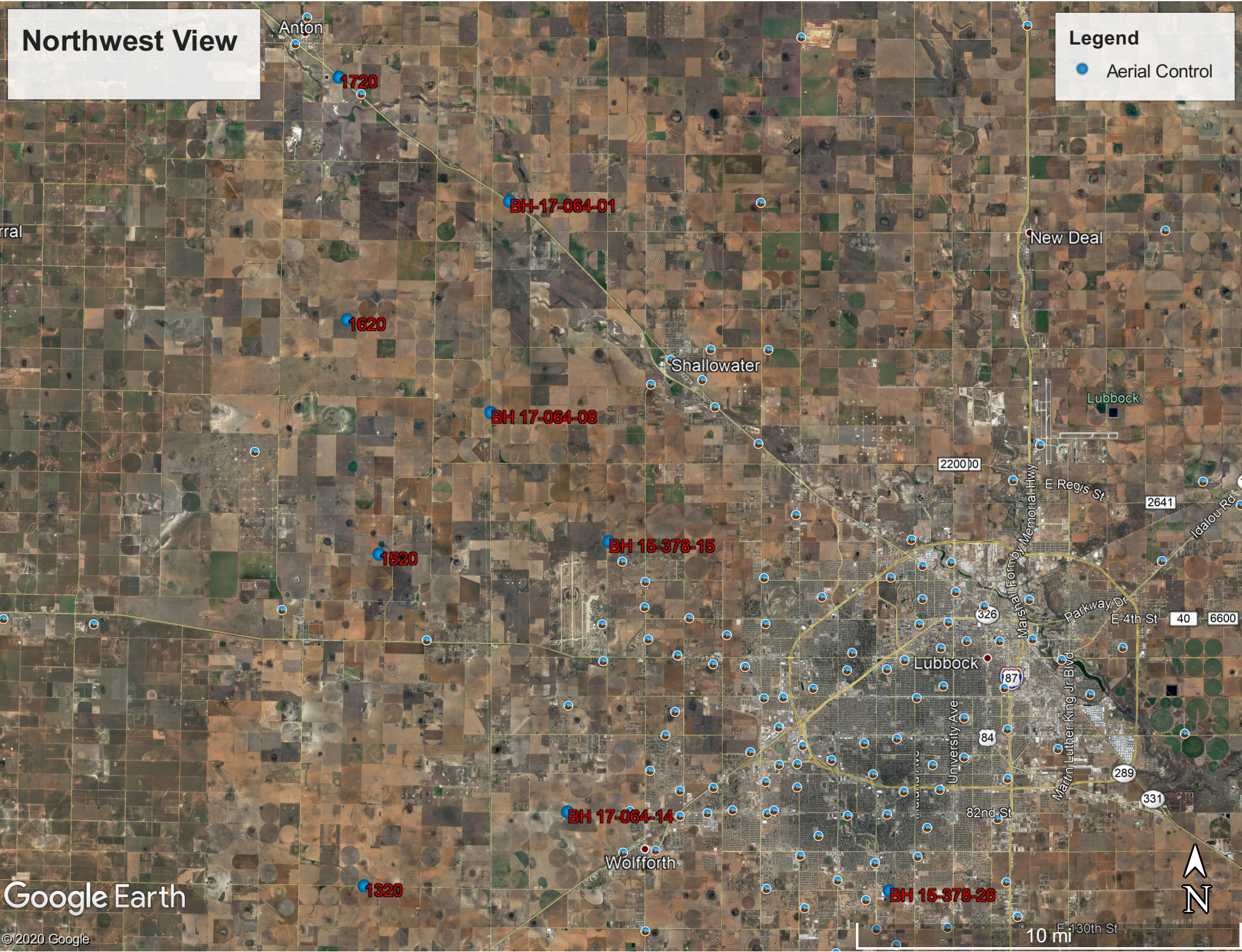


30 mi

Northwest View

Legend

- Aerial Control



Google Earth

© 2020 Google

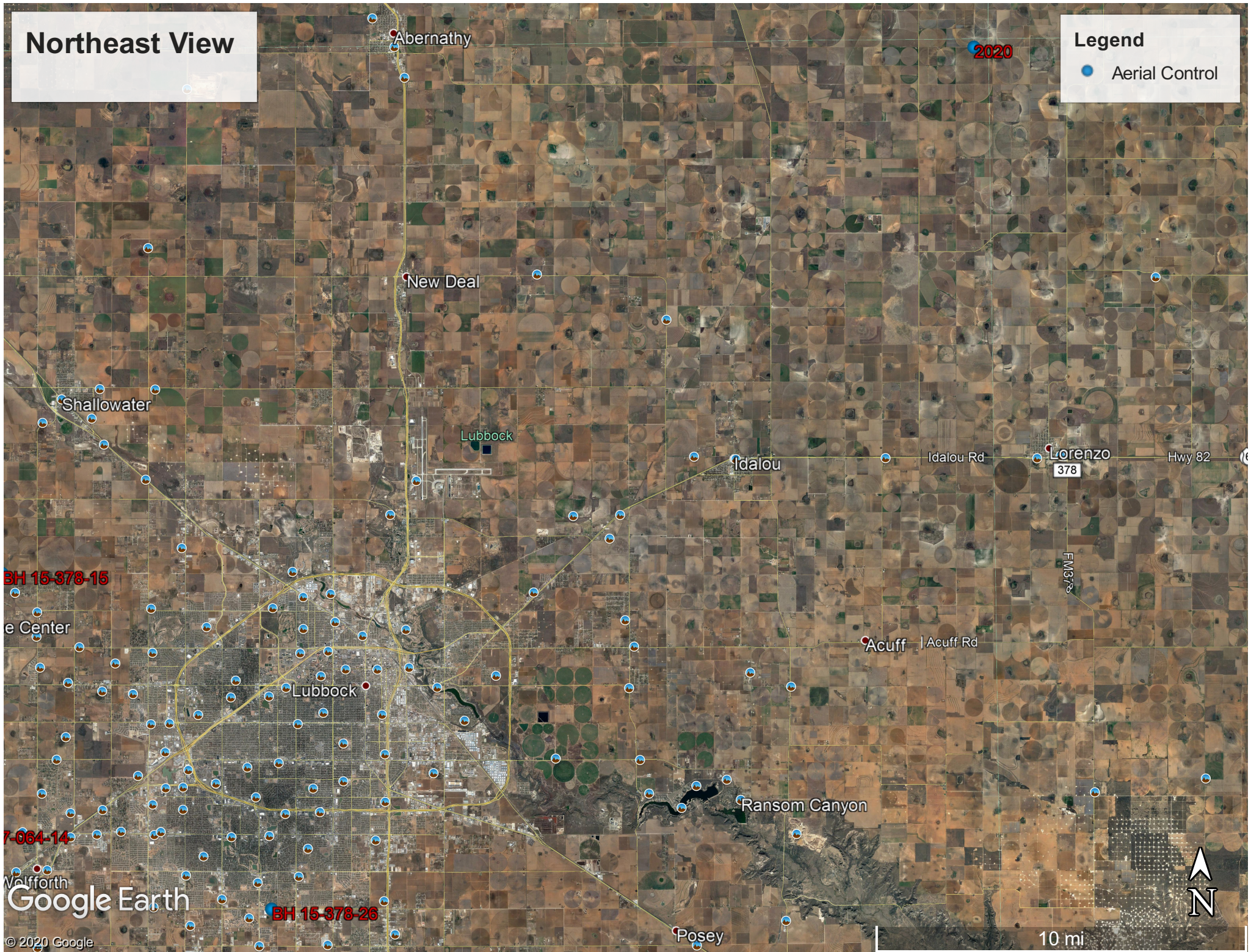
10 mi



Northeast View

Legend

- Aerial Control



BH 15-378-15

e Center

7-064-14

Wafforth
Google Earth

BH 15-378-26

2020

Lorenzo
378

FM 378

Hwy 82

Acuff | Acuff Rd

Ransom Canyon


Posey

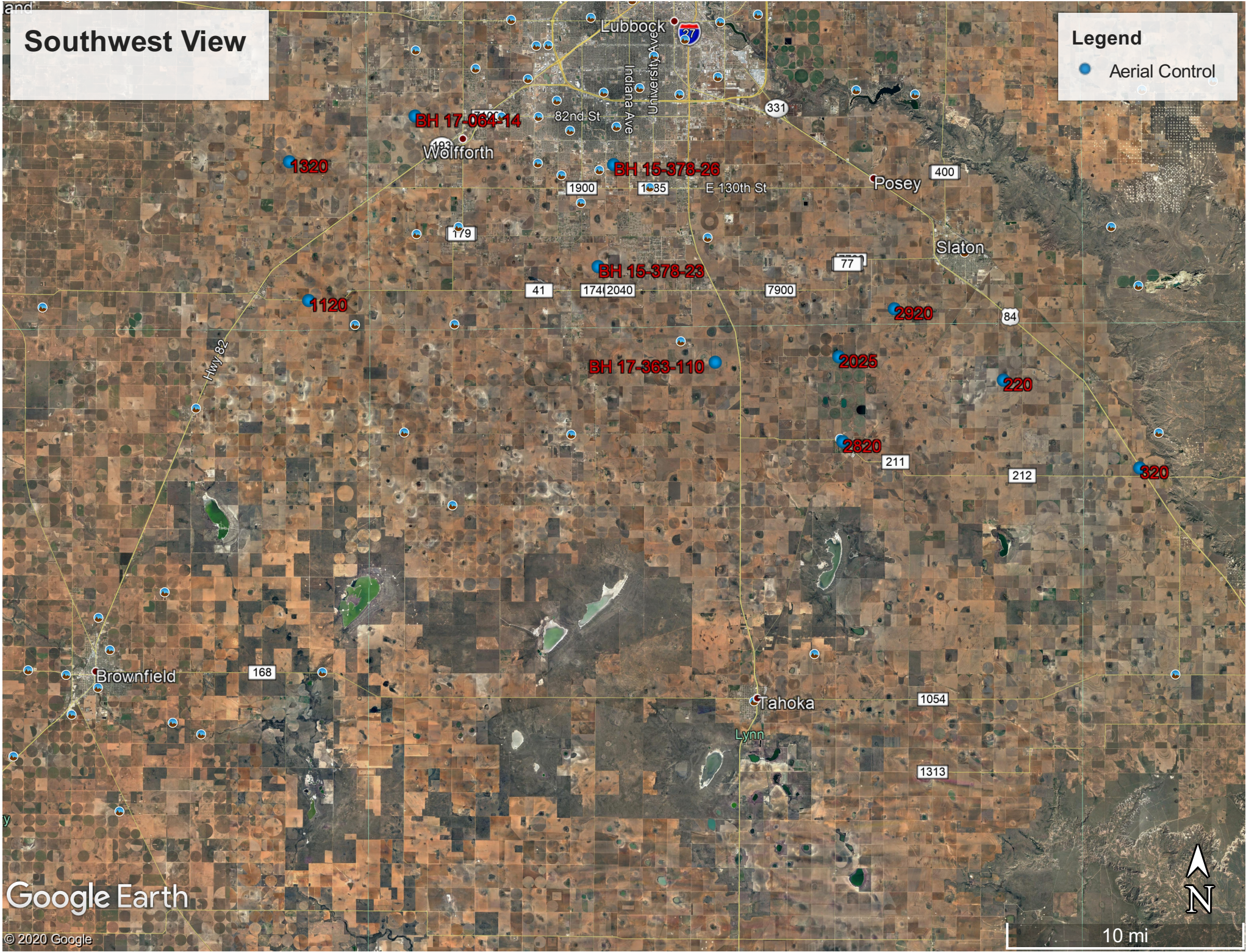
10 mi



Southwest View

Legend

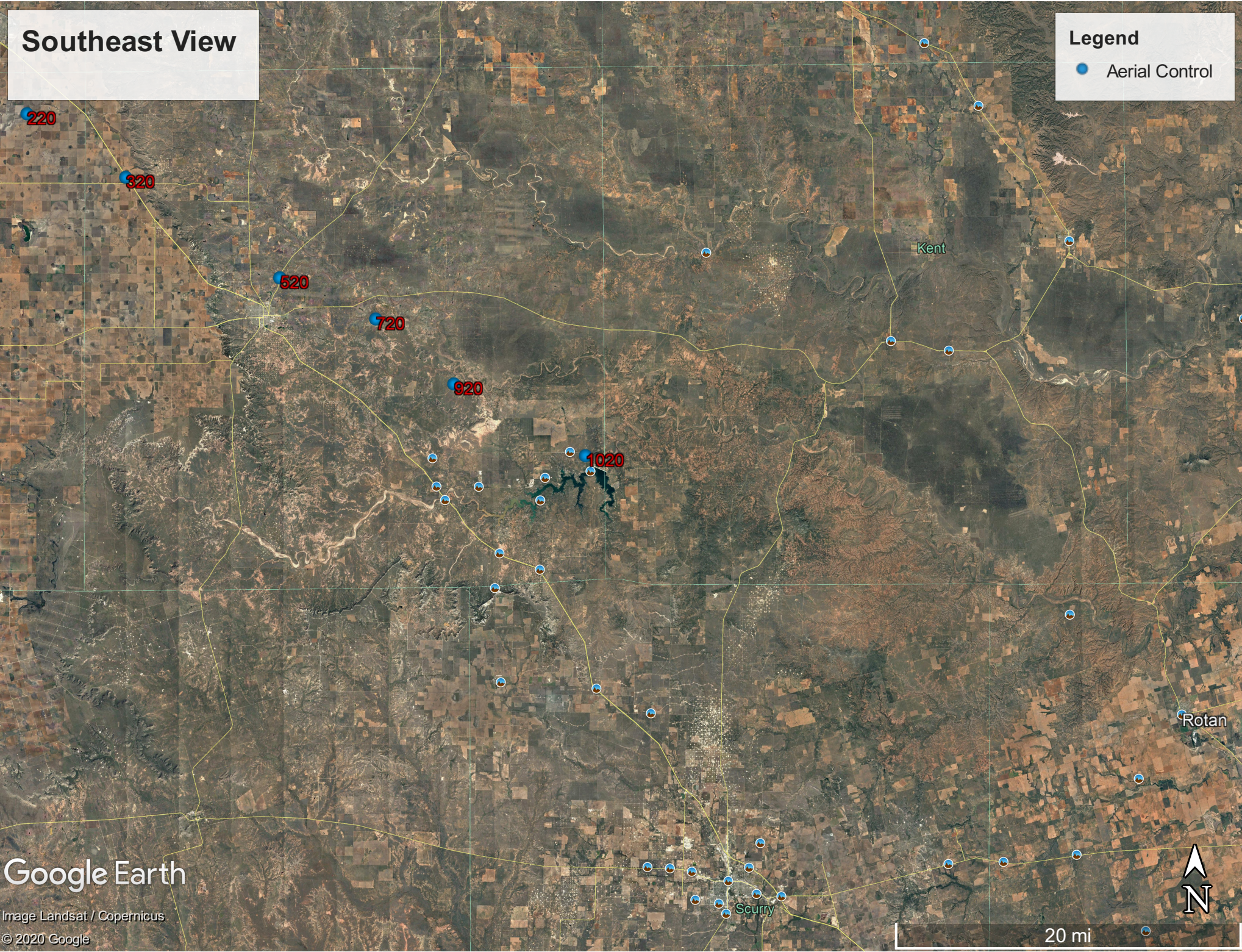
-  Aerial Control



Southeast View

Legend

- Aerial Control



Google Earth

Image Landsat / Copernicus
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20 mi

Control Station Data

Name of Station: 220

Established Group: Hugo Reed and Associates

Observation Date: 9-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 220 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°21'36.5250"N	101°36'53.8457"W

Northing	Easting
7191876.18	1017586.16

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
2967.64	3049.84

Location

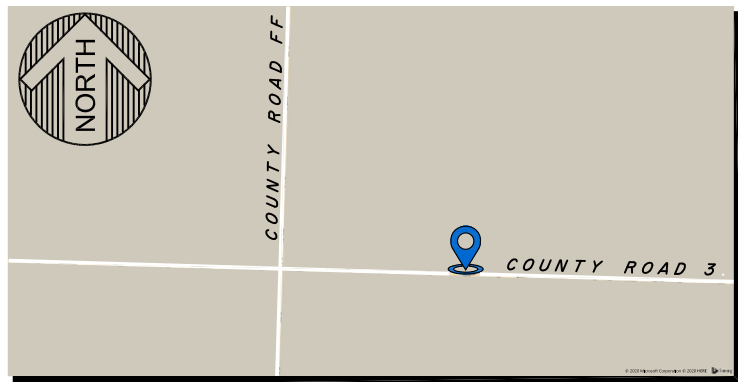
County, State: Lynn, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section: J/9

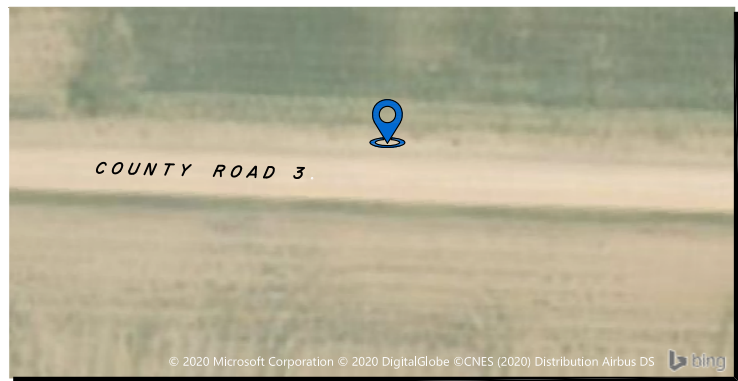
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 320

Established Group: Hugo Reed and Associates

Observation Date: 9-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 320 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°18'24.4897"N	101°30'56.3012"W

Northing	Easting
7171591.32	1047339.78

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
2903.16	2985.78

Location

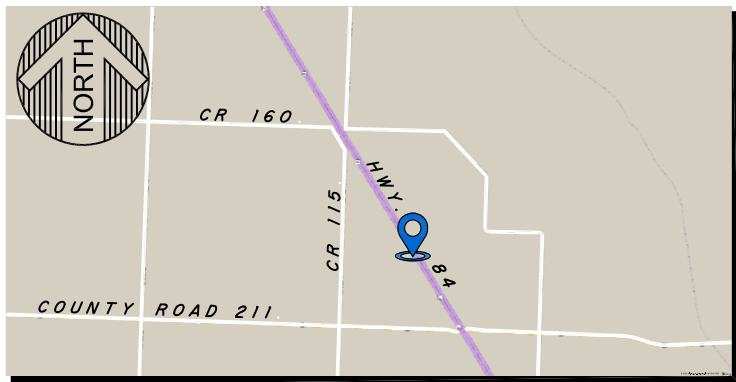
County, State: Garza, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section:

Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 520

Established Group: Hugo Reed and Associates

Observation Date: 9-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 520 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°13'20.8972"N	101°21'41.5460"W

Northing	Easting
7139603.71	1093563.31

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
2436.75	2519.66

Location

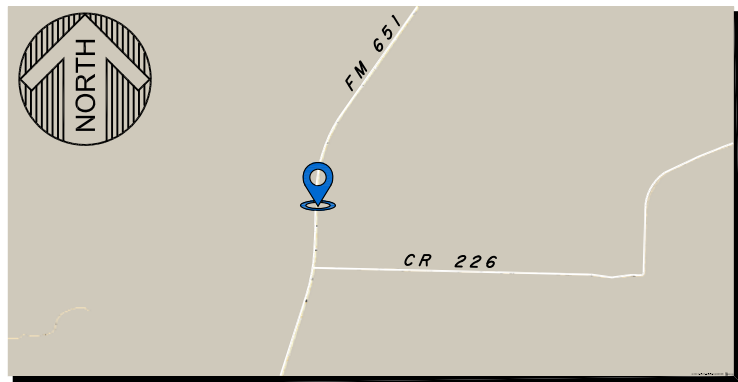
County, State: Garza, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section:

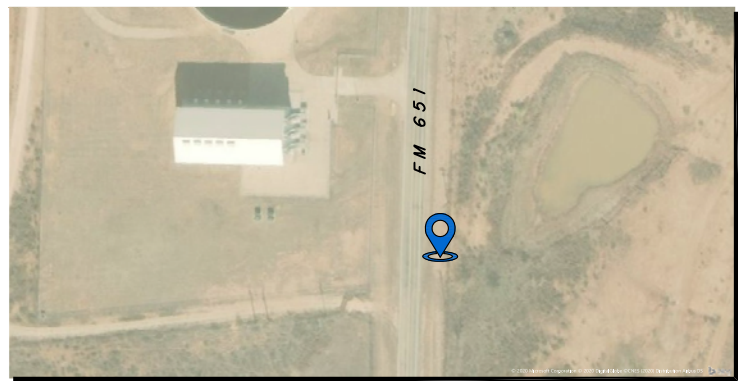
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 720

Established Group: Hugo Reed and Associates

Observation Date: 9-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 720 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

Latitude	Longitude
33°11'16.0873"N	101°15'56.6639"W

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Northing	Easting
7126209.93	1122516.11

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
2300.84	2383.96

Location

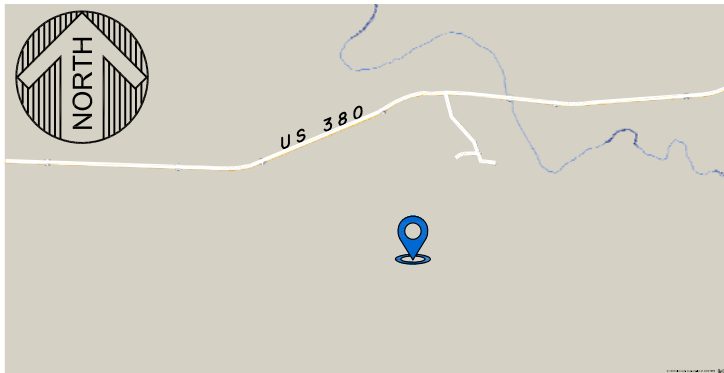
County, State: Garza, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section: 5/66

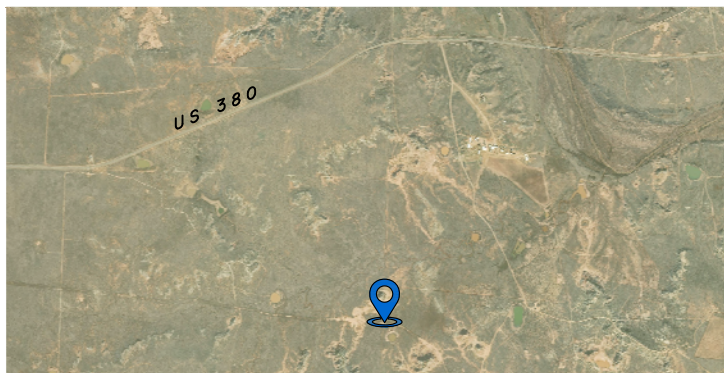
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 920

Established Group: Hugo Reed and Associates

Observation Date: 9-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 920 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°08'0.232"N	101°11'17.0197"W

Northing	Easting
7105806.15	1145764.85

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
2192.88	2276.46

Location

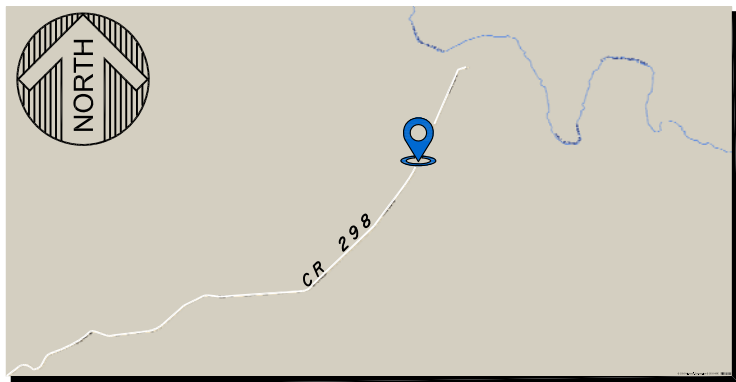
County, State: Garza, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section: 5/127

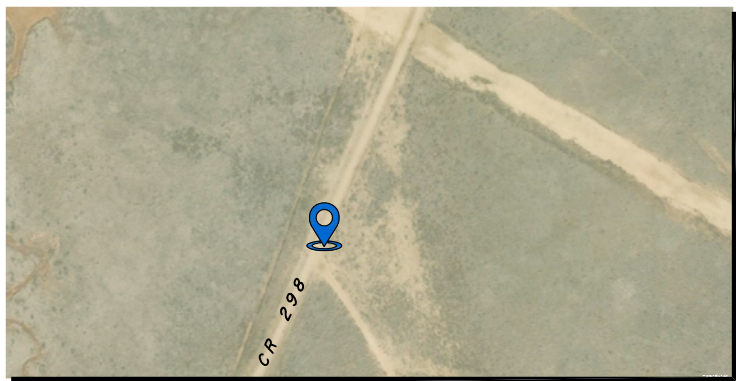
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 1020

Established Group: Hugo Reed and Associates

Observation Date: 9-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 1020 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°04'23.1903"N	101°03'26.4368"W

Northing	Easting
7082879.41	1185231.56

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
2217.41	2302.00

Location

County, State: Garza, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section: 5/79

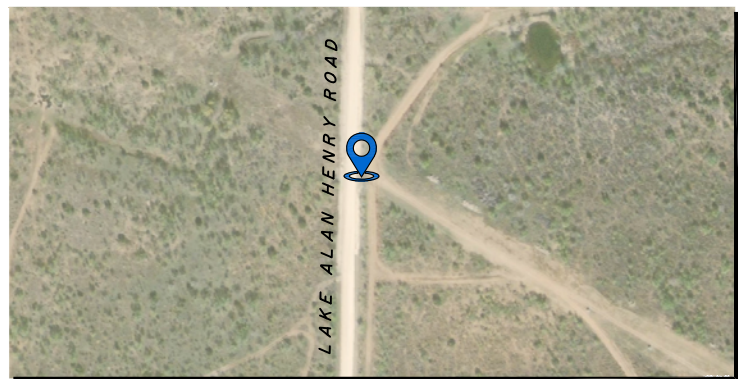
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 1120

Established Group: Hugo Reed and Associates

Observation Date: 7-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 1120 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°24'26.7167"N	102°07'13.9764"W

Northing	Easting
7214014.47	863891.90

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3270.42	3349.64

Location

County, State: Hockley, Texas

Land Grant: None

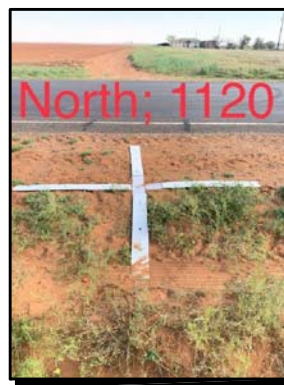
Notes: Plastic Panel

Block/Section: 0/6

Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 1320

Established Group: Hugo Reed and Associates

Observation Date: 10-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 1320 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°29'30.1017"N	102°08'6.4509"W

Northing	Easting
7244812.45	860507.34

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3275.41	3354.90

Location

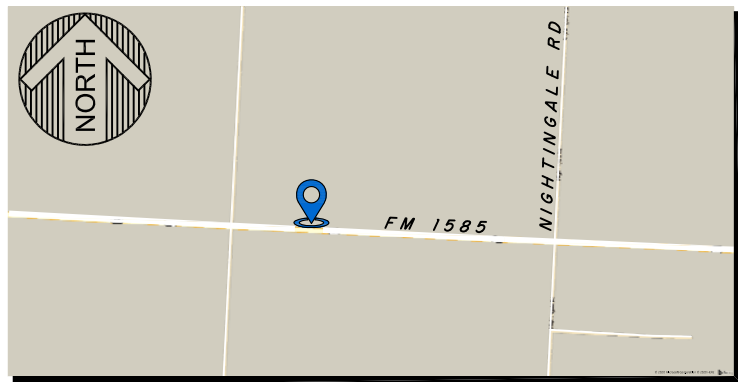
County, State: Hockley, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section:

Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 1520

Established Group: Hugo Reed and Associates

Observation Date: 10-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 1520 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°36'57.8017"N	102°07'44.7531"W

Northing	Easting
7289971.87	863906.55

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3290.42	3370.66

Location

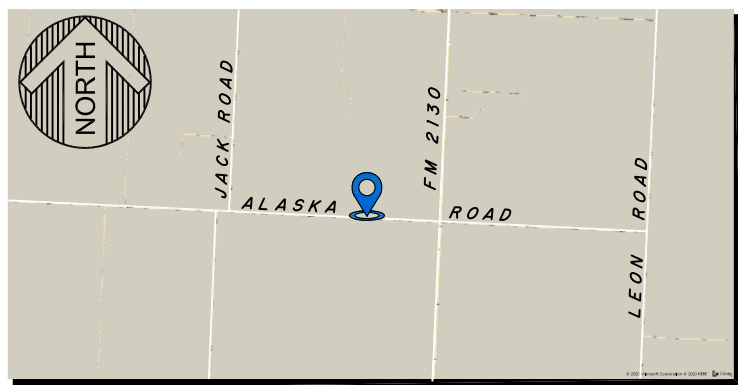
County, State: Hockley, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section: A/10

Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 1620

Established Group: Hugo Reed and Associates

Observation Date: 10-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 1620 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

Latitude	Longitude
33° 42' 13.7463" N	102° 08' 38.1934" W

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Northing	Easting
7322043.33	860497.58

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3319.70	3400.36

Location

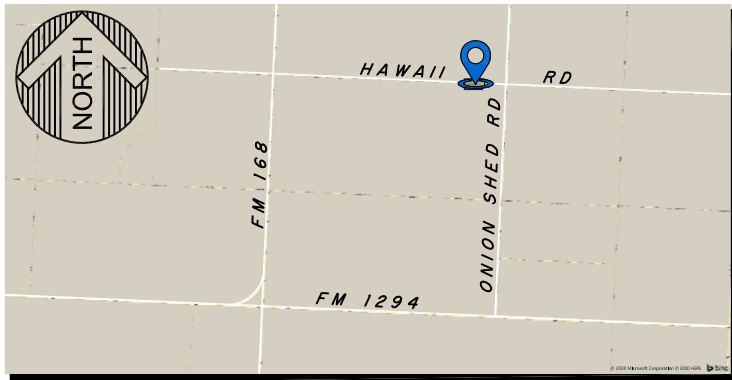
County, State: Hockley, Texas

Land Grant: None

Notes: Platic Panel

Block/Section: A/50

Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 1720

Established Group: Hugo Reed and Associates

Observation Date: 10-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 1720 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33° 47' 41.1160" N	102° 08' 53.8670" W

Northing	Easting
7355159.46	860323.19

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3290.24	3371.38

Location

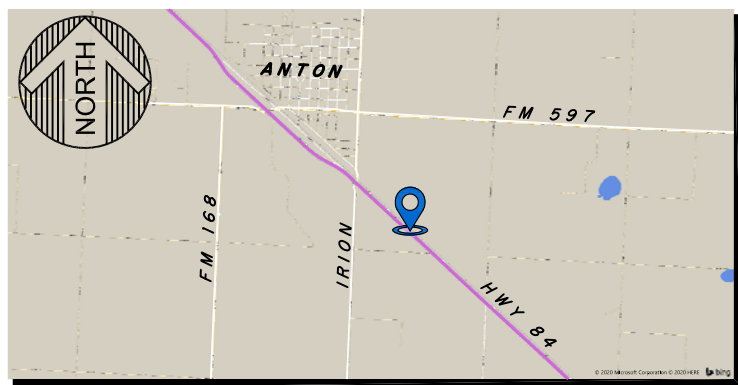
County, State: Hockley, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section: A/105

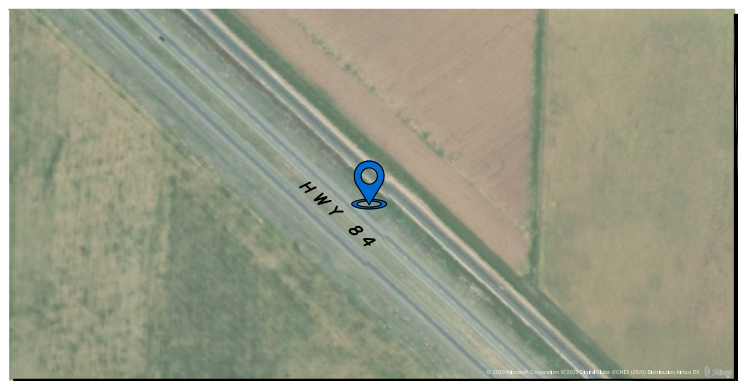
Location Map:



Vicinity Photo (Looking South)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 2020

Established Group: Hugo Reed and Associates

Observation Date: 10-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 2020 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°49'37.9594"N	101°34'12.4723"W

Northing	Easting
7361349.32	1036232.34

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3140.89	3225.65

Location

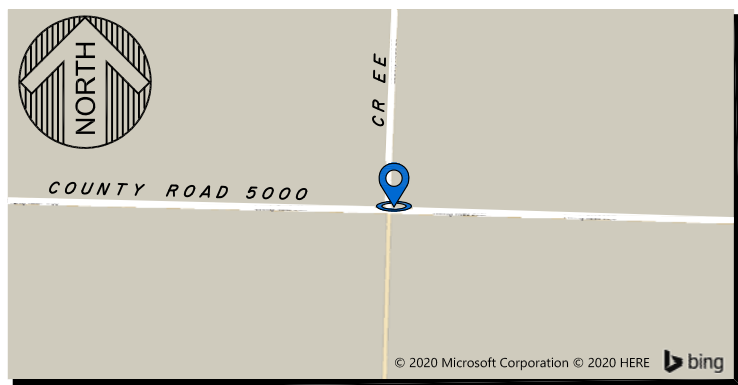
County, State: Lubbock, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section: C/68

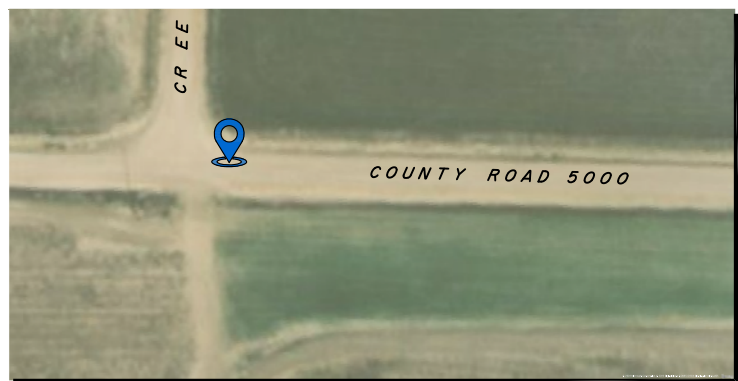
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 2025

Established Group: Hugo Reed and Associates

Observation Date: 10-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 2025 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°22'27.1736"N	101°44'4.9153"W

Northing	Easting
7198097.32	981201.17

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3045.16	3126.56

Location

County, State: Lynn, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section:

Location Map:



Vicinity Photo (Looking South)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 2820

Established Group: Hugo Reed and Associates

Observation Date: 8-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: Nail w/Shiner

Station Height: 0.00 US FT

Stamping: Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°19'21.8656"N	101°43'54.4669"W

Northing	Easting
7179350.56	981510.69

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3040.44	3121.77

Location

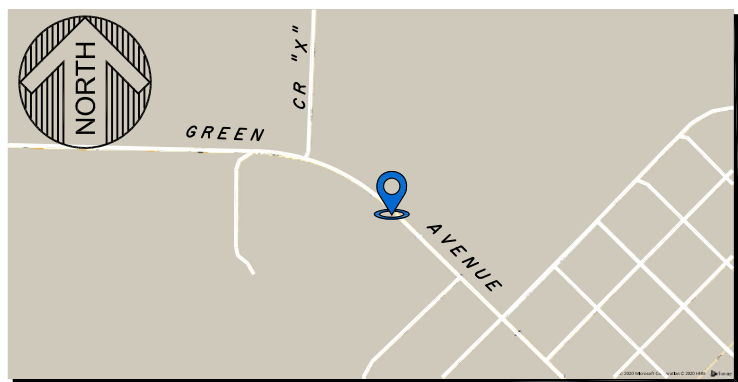
County, State: Lynn, Texas

Land Grant: None

Notes: White Paint

Block/Section:

Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: 2920

Established Group: Hugo Reed and Associates

Observation Date: 8-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: 2920 Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

Latitude	Longitude
33°24'12.3049"N	101°41'39.6375"W

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Northing	Easting
7208340.84	993837.57

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3041.79	3123.52

Location

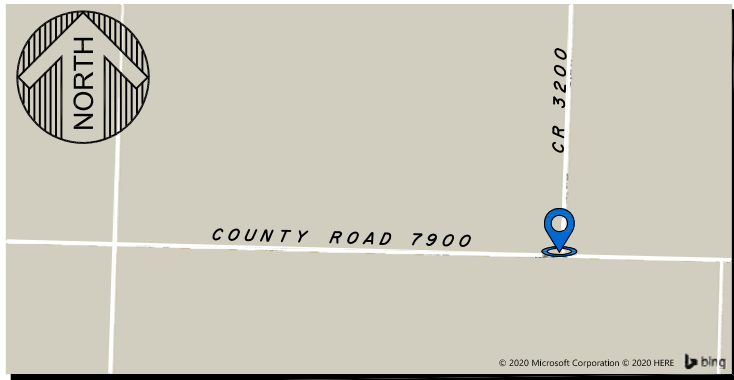
County, State: Lubbock, Texas

Land Grant: None

Notes: Plastic Panel

Block/Section: 24/28

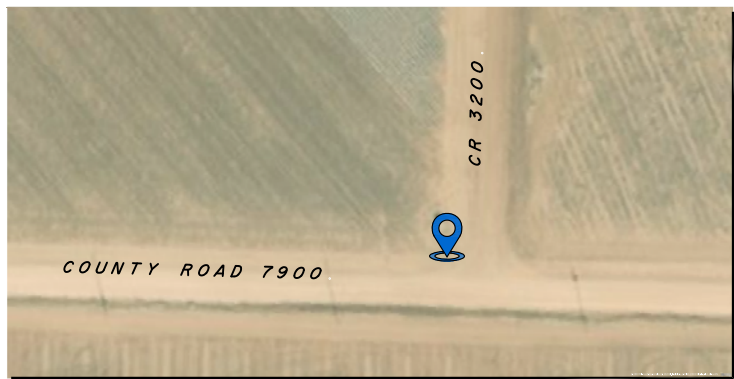
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: BH 15-378-15

Established Group: Hugo Reed and Associates

Observation Date: 13-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: Triangle w/ Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

Latitude	Longitude
33°37'16.2862"N	102°01'32.7237"W

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Northing	Easting
7290768.00	895411.45

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3231.88	3312.87

Location

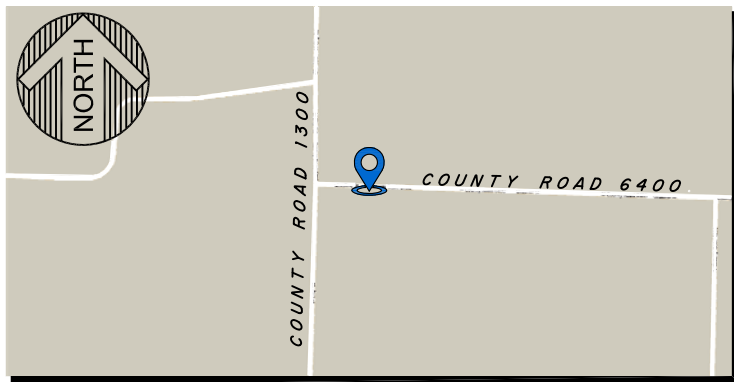
County, State: Lubbock, Texas

Land Grant: 0.00 US FT

Notes: Plastic Panel

Block/Section: JS/19

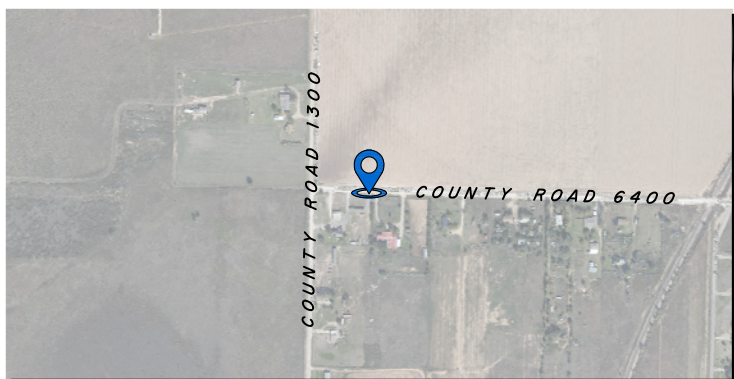
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: BH 15-378-23

Established Group: Hugo Reed and Associates

Observation Date: 13-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: Triangle w/ Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°25'43.2282"N	101°54'35.8775"W

Northing	Easting
7219593.41	928367.23

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3154.99	3235.50

Location

County, State: Lubbock, Texas

Land Grant: 0.00 US FT

Notes: PLASTIC PANEL

Block/Section: 20/32

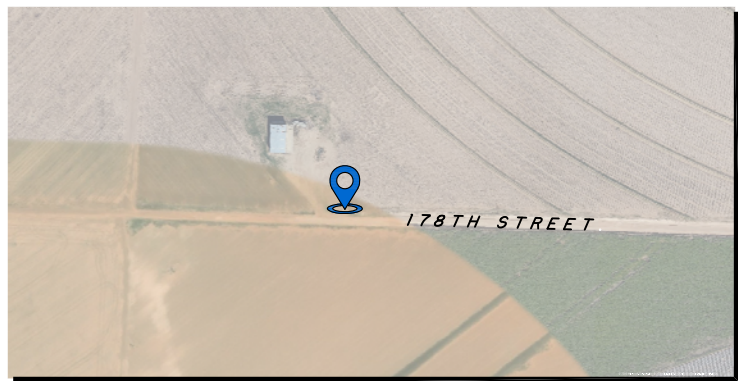
Location Map:



Vicinity Photo (Looking South)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: BH 15-378-26

Established Group: Hugo Reed and Associates

Observation Date: 13-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.0 US FT

Stamping: Triangle w/Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

Latitude	Longitude
33°29'26.3264"N	101°53'56.0326"W

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Northing	Easting
7242020.54	932471.50

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3151.40	3232.28

Location

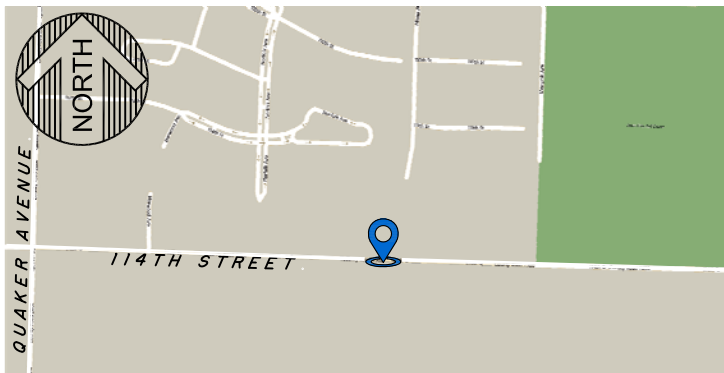
County, State: Lubbock, Texas

Land Grant: 0.00 US FT

Notes: PLASTIC PANEL

Block/Section: E2/22

Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: BH-17-064-01

Established Group: Hugo Reed and Associates

Observation Date: 23-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: Nail w/Shiner

Station Height: 0.00 US FT

Stamping: Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33° 44' 54.5163" N	102° 04' 15.7633" W

Northing	Easting
7337523.08	883206.88

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3252.62	3334.06

Location

County, State: Lubbock, Texas

Land Grant: None

Notes: White Paint

Block/Section: P/43

Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: BH 17-064-08

Established Group: Hugo Reed and Associates

Observation Date: 13-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: Nail w/Shiner

Station Height: 0.00 US FT

Stamping: Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

Latitude	Longitude
33°40'09.5334"N	102°04'44.7097"W

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Northing	Easting
7308817.66	879782.96

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3282.14	3363.05

Location

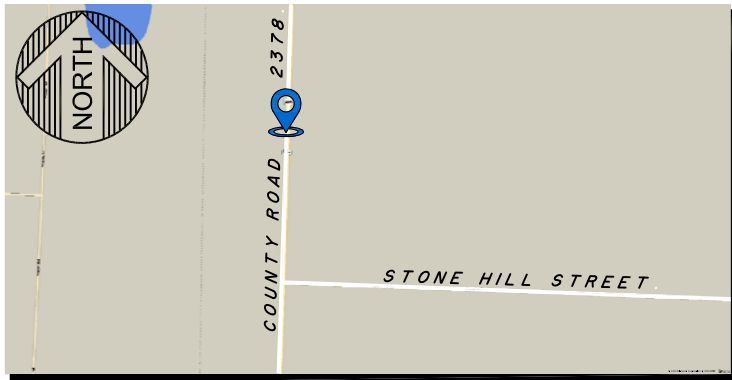
County, State: Lubbock, Texas

Land Grant: 0.0 US FT

Notes: White Paint

Block/Section: D/12

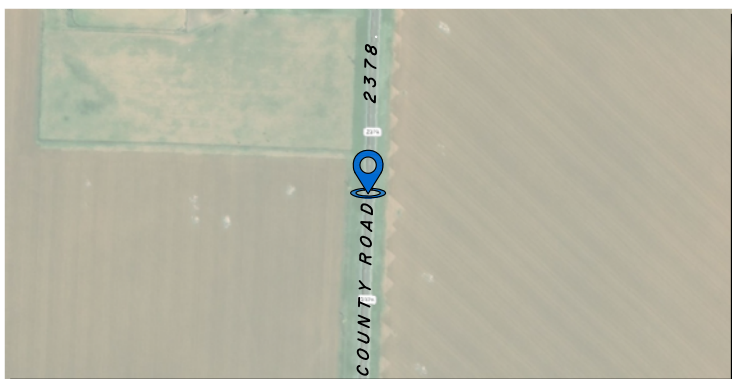
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: BH 17-064-14

Established Group: Hugo Reed and Associates

Observation Date: 13-April-2020

HRA Project #: 20200468

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: Triangle w/ Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°31'11.2287"N	102°02'37.4040"W

Northing	Easting
7254075.70	888700.82

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3237.11	3317.30

Location

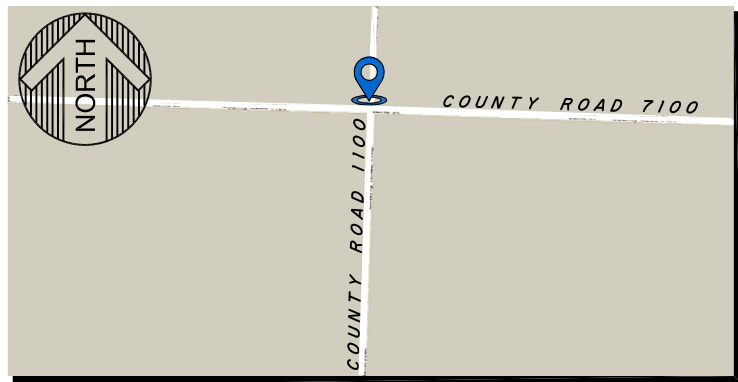
County, State: Lubbock, Texas

Land Grant: 0.00 US FT

Notes: PLASTIC PANEL

Block/Section: D6/19

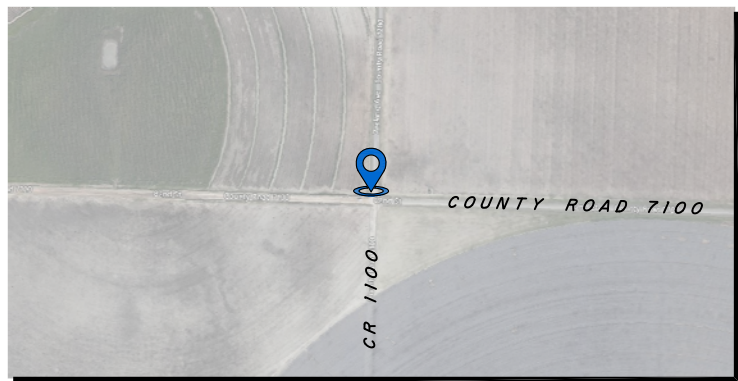
Location Map:



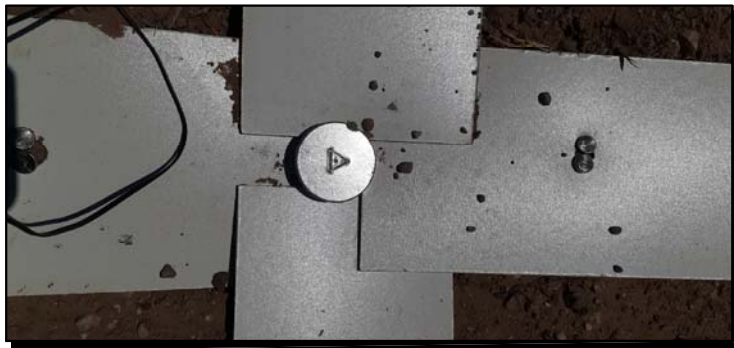
Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:



Control Station Data

Name of Station: BH 17-363-110

Established Group: Hugo Reed and Associates

Observation Date: 15-April-2020

HRA Project #: 23423432

Project Name: Lubbock Orthophotography

Station Data

Type/ Composition: 2" Aluminum Cap

Station Height: 0.00 US FT

Stamping: Triangle w/ Center Punch

Horizontal Method: Real-Time Kinematic

Vertical Method: Real-Time Kinematic

Coordinate Data

Geodetic Coordinates

Coordinates are based on WGS84

State Plane Coordinates

NAD83 - Texas North-Central Zone, 4202 - U.S. Survey Feet

Latitude	Longitude
33°22'14.8454"W	101°49'28.6130"W

Northing	Easting
7197708.75	953726.50

Vertical Datum

U.S. Survey Feet

Ellipsoid (GRS80)	Orthometric (NAVD88, Geoid18)
3112.74	3193.56

Location

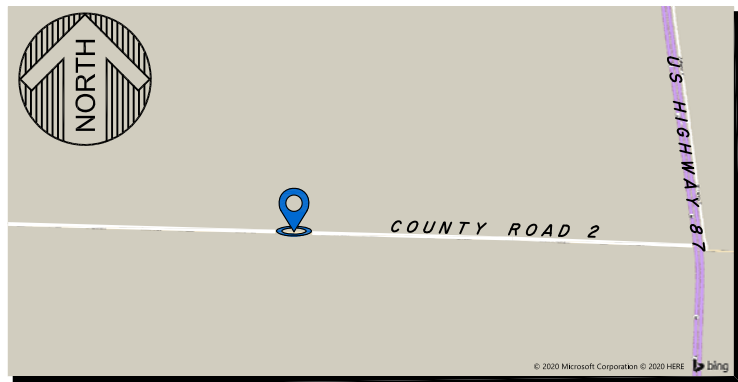
County, State: Lynn, Texas

Land Grant: 0.00 US FT

Notes: PLASTIC PANEL

Block/Section: 21/422

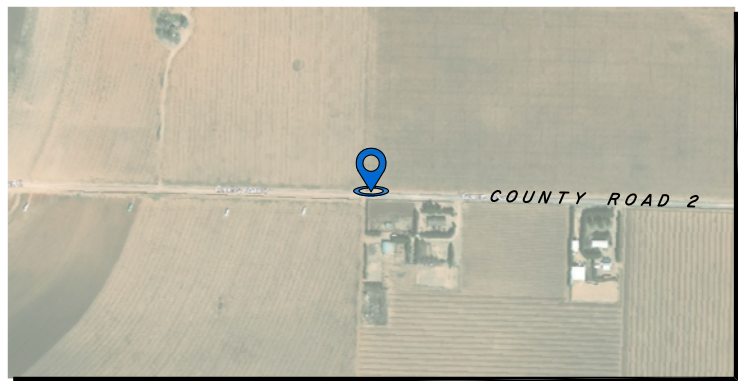
Location Map:



Vicinity Photo (Looking North)



Vicinity Map:



Close Up Photo:

