JAMES CITY COUNTY

PRIMARY SERVICE AREA
GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

AUGUST 1990

PREPARED BY:

ROUSE-SIRINE ASSOCIATES, LTD.
SURVEYORS • ENGINEERS • PLANNERS
333 OFFICE SQUARE LANE
VIRGINIA BEACH, VIRGINIA 23462
NOTICE TO USERS
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

Physical Description of Station Marks:

The stations consist of 3½" diameter domed alloy disks (with magnets) set in 6" diameter concrete posts. The disks are stamped with a "STATION" number and a point in the center of a triangle in the center of the disk. The posts are cast in place, 36" in depth, and contain a 3/4" diameter reinforcing bar 36" in length for stability. Each station is accompanied by two (2) nearby reference marks and one (1) distant reference/azimuth mark.

The reference monuments (including azimuths) are of same type of construction (with magnets) as the station monument, but are easily distinguished from the main stations by the size and markings of the disks. The reference mark disks are only 2" in diameter and are stamped REFERENCE MARK with a crossed arrow in the center pointing in the general direction to the main station monument.

The reference and recovery data sheets provide a complete and detailed description of the location of each individual main station and their respective reference marks and witness posts. To avoid unnecessary excavation, please note the location of the monument with respect to the witness post and pinpoint the location with the ties given on the reverse side of the reference and recovery data sheet before digging.

Units:

The coordinates of each main station refer to the Virginia Coordinate System of 1983–South Zone (1986 adjustment) and are provided in meters, U.S. survey feet and international feet; additionally, all bearings are state plane grid bearings. The conversions from meters to the respective feet values are as follows:

1. To convert from meters to international feet multiply meters by (100/2.54 x 12) exact, or 3.280839895 approximate.

2. To convert from meters to US survey feet multiply meters by (39.37/12) exact, or 3.280833333 approximate.

As you will note, the difference between the two conversions is very small, less than 1 part in 150,000, and can be ignored for conversions of most field measurements. The difference does become significant when converting numbers larger than 1,500 feet, i.e., meter coordinates.
Scale Factor:

The scale factor is used to convert field measurements to plane distances. Throughout the James City County project area the scale factor is slightly less than one and is a function of latitude (northing). For most small survey projects an average scale factor will produce adequate results. The scale factor at each control station is printed on the reverse side of the reference and recovery data sheet. All published distances are plane distances incorporating the scale factor.

Example:

A survey project is located approximately midway between Stations 305 and 306.

To determine an average scale factor for the survey project simply average the scale factors of Stations 305 and 306.

Scale factor of Sta. 305 = 0.999945413  
Scale factor of Sta. 306 = 0.999945402  
Project scale factor = 0.9999454075

To determine a reduced horizontal field measurement of 4863.20 feet to a plane distance, multiply the field measurement by the scale factor.

4863.20 field distance x 0.9999454075 = 4862.934 plane distance. The scale factor must be applied to all measured distances to compute plane coordinates.

Convergence:

The convergency angle is used to convert geodetic or astronomic\(^1\) azimuth to state plane azimuth. The convergence angle at each control station is printed on the reverse side of the reference–recovery sheet and is subtracted from an astronomic azimuth to determine the state plane azimuth of a line.

Example: An astronomic azimuth of a line from Station 305 to a monument is determined to be 176°16'45". The state plane azimuth equals the astronomic azimuth minus the convergence angle.

\[
\text{State Plane Azimuth} = 176°16'45" - 01°02'51" = 175°13'54"
\]
\[
\text{State Plane Grid Bearing} = S04°46'06"E
\]

\(^1\)While the geodetic azimuth and the astronomic azimuth are not exactly equal, the difference is negligible for most survey projects.
Vertical Datum:

The station elevations are based on the current published values for the following Federal Government and County of York vertical monuments which have been incorporated into the vertical network:

<table>
<thead>
<tr>
<th>Monument Name</th>
<th>Current Published Vertical Value (in Feet)</th>
<th>Date of Last Vertical Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>W264</td>
<td>128.08</td>
<td>1972</td>
</tr>
<tr>
<td>Y455</td>
<td>119.55</td>
<td>1972</td>
</tr>
<tr>
<td>York County 015</td>
<td>124.74</td>
<td>1989</td>
</tr>
<tr>
<td>York County 017</td>
<td>104.50</td>
<td>1989</td>
</tr>
<tr>
<td>BARRETT'S 1934</td>
<td>11.79</td>
<td>1972</td>
</tr>
<tr>
<td>K277</td>
<td>24.01</td>
<td>1972</td>
</tr>
<tr>
<td>R261</td>
<td>45.14</td>
<td>1972</td>
</tr>
</tbody>
</table>

These existing vertical monuments are well distributed throughout and adjacent to the County. The published values for these monuments were confirmed by conventional, accurate differential leveling methods. Additionally, all new stations were heighted by the same differential leveling methods and tied to these vertical monuments.

It appears that the adjustments to the datum by NGS have lowered the vertical plane by approximately 0.38' from the previous values published by Abrams Aerial Survey Corp in 1973 and 1974. Extreme caution should be exercised in attempting to integrate any previously published data with data contained herein.

Notification of disturbed or destroyed monuments:

Your assistance is requested in reporting any monument found to have been or subject to being moved, disturbed or destroyed. Please contact The Office of Real Estate Assessment, James City County, Virginia, at (804) 253–6650.

Use of Previously Published Data:

Again, extreme caution should be exercised in attempting to integrate previously published horizontal and vertical data with the data contained herein.
# JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td></td>
<td>3646184.089</td>
<td>1116782.629</td>
</tr>
<tr>
<td></td>
<td>Meters</td>
<td>11962522.297</td>
<td>3663977.676</td>
</tr>
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<td></td>
<td>U.S. Survey Ft.</td>
<td>11962546.222</td>
<td>3663985.004</td>
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</table>

<table>
<thead>
<tr>
<th>STA. AZIMUTH MARK</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>301 RM3 AZ.</td>
<td>Meters</td>
<td>3645578.988</td>
<td>1116948.857</td>
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<td>U.S. Survey Ft.</td>
<td>11960537.062</td>
<td>3664523.043</td>
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<tr>
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<td>Int'l Ft.</td>
<td>11960560.983</td>
<td>3664530.372</td>
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</tbody>
</table>

## REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
<td>S64°20'08&quot;E</td>
<td>40.52</td>
</tr>
<tr>
<td>RM2 RESET 1990</td>
<td>S22°29'21&quot;W</td>
<td>40.32</td>
</tr>
<tr>
<td>RM3 AZ.</td>
<td>N74°38'21&quot;W</td>
<td>2058.78</td>
</tr>
</tbody>
</table>

## LOCATION MAP (Scale: 1"=4000')

LOCATION SKETCH (Not to Scale)

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 99.58
Elevation of Azimuth Mark in Feet = 98.47

COUNTY / CITY
JAMES CITY COUNTY

DISTRICT
STONEHOUSE

STATION NUMBER
301

FIELD BOOKS
P.S. 365, P. 11–13, 32
STATION DESCRIPTION

STATION NO. 301:
A 3¼" disk in concrete, set approximately 8" below the ground surface, stamped "STATION NO. 301." The disk is located 21.6' north of the center line of the pavement of State Route 610 (Forge Road), 341.3' east of utility pole #17225, 54.1' west of utility pole #SR46, and 47.5' southwest of a wood sign (Vaux Hall #1928).

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 301 – REFERENCE MARK NO. 1." The disk is located 16.3' north of the center line of the pavement of State Route 610 (Forge Road), 15.1' west of utility pole #SR46, and 15.5' southwest of a wood sign (Vaux Hall #1928).

REFERENCE MARK NO. 2
RESET 1990:
A 2" disk in concrete, set approximately 18" below the ground surface, stamped "STATION NO. 301 – REFERENCE MARK NO. 2 RESET 1990." The disk is located 18.5' south of the center line of the pavement of State Route 610 (Forge Road), and 70.0' southwest of utility pole #SR46.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 301 – REFERENCE MARK NO. 3 AZ." The disk is located approximately 152' north of the center line of the pavement of State Route 610 (Forge Road) and 21.7' east of the center line of the pavement of State Route 603 (Diascum Road), 124.9' northeast of a "stop" sign.

STATION NAME: 301
Latitude (dms) 37 22 26.94657
Longitude (dms) 76 50 57.84491
State Plane Zone (4502) Virginia South
Scale 0.999945408
Convergence (dms) 1 00 06.441
STATION DESCRIPTION

STATION NO. 302: A 3¾" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 302." The disk is located 0.1 mile east of State Route 746 (Old Stage Road), 29.5' south of the center line of the pavement of the westbound lanes of State Route 30 (Rochambeau Drive), 66.1' southeast of a reflector sign, and 67.8' east of a "One Way" sign.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 302 – REFERENCE MARK NO. 1." The disk is located 24' north of the center line of the pavement of the westbound lanes of State Route 30 (Rochambeau Drive), 2.3' west of a "One Way" sign, and 70.2' southeast of a utility pole.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 302 – REFERENCE MARK NO. 2." The disk is located 23.4' north of the center line of the pavement of the eastbound lanes of State Route 30 (Rochambeau Drive), 11.0' northwest of a reflector sign, and 62.9' southeast of a "One Way" sign.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 302 – REFERENCE MARK NO. 3 AZ." The disk is located 20' south of the center line of the pavement of the westbound lanes of State Route 30 (Rochambeau Drive), and 127.6' north of a fire hydrant on the south side of State Route 30 (Rochambeau Drive).

STATION NAME: 302
Latitude (dms) 37 23 50.57293
Longitude (dms) 76 47 17.62009
State Plane Zone (4502) Virginia South
Scale 0.999945537
Convergence (dms) 1 02 20.101
## Virginia State Plane Coordinates - South Zone (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>303</td>
<td>Meters</td>
<td>3650184.031</td>
<td>1118630.804</td>
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<tr>
<td></td>
<td>U.S. Survey Ft.</td>
<td>11975645.441</td>
<td>3673041.288</td>
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<tr>
<td></td>
<td>Int'l Ft.</td>
<td>11975669.392</td>
<td>3670048.568</td>
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### STA. AZIMUTH MARK

<table>
<thead>
<tr>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meters</td>
<td>3650040.401</td>
<td>1118028.168</td>
</tr>
<tr>
<td>U.S. Survey Ft.</td>
<td>11975174.214</td>
<td>3668064.082</td>
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<tr>
<td>Int'l Ft.</td>
<td>11975198.164</td>
<td>3668071.418</td>
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</table>

### Reference and Azimuth Mark Locations

<table>
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<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
<td>S84°34'05&quot;W</td>
<td>62.74</td>
</tr>
<tr>
<td>RM2</td>
<td>N05°00'48&quot;W</td>
<td>53.84</td>
</tr>
<tr>
<td>RM3 AZ.</td>
<td>S13°24'20&quot;W</td>
<td>2032.53</td>
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</table>

### Vertical Data

- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 113.13
- Elevation of Azimuth Mark in Feet = 112.57

### County / City

- JAMES CITY COUNTY

### Station Number

- 303

### District

- STONEHOUSE

### Field Books

- P.S. 365, P. 17–19

### Location Sketch

- Not to Scale

### Location Map

- Scale: 1" = 4000

### Map Details

- Washington, DC
- RICHMOND
- TOANO
- ANDERSONS CORNER
- HANKINS IND PK
- WARREN MILL
- HUNTERS CREEK
- LAKE TOANO ESTS
- JAMES CITY BRIDGE
- HANKINS IND PK

---

- At 8231 O.2 Mile to
- ST ANDREW
- ST GEORGE
- ST MARY
- ST MICHAEL
- ST JOHN

---

- 0.2 MILE TO
- STATE ROUTE 759
- (INDUSTRIAL BLVD.)

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- ECONOMIC DEVELOPMENT BOARD
- JAMES CITY COUNTY
STATION DESCRIPTION

STATION NO. 303:
A 3¼" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 303." The disk is located 0.2 mile north of the intersection of U.S. Route 60 (Richmond Road) and State Route 754 (Industrial Boulevard), 33.1' east of the center line of the pavement of the westbound lanes of U.S Route 60 (Richmond Road), 53.1' north of Chesapeake & Potomac Telephone Company utility pole #1803.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 303 – REFERENCE MARK NO. 1." The disk is located 29.7' west of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 64.2' south of a reflector sign, and 904' from the center line of a median crossover.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 8" below the ground surface, stamped "STATION NO. 303 – REFERENCE MARK NO. 2." The disk is located 33.3' east of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 24.4' south of Chesapeake & Potomac Telephone Company utility pole #1802, and 18.4' southeast of a "One Way" sign.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 303 – REFERENCE MARK NO. 3 AZ." The disk is located 2.8' west of the guard rail on the west side of the westbound lanes of U.S. Route 60 (Richmond Road), 39.7' southeast of the corner of the eastbound bridge on U.S. Route 60 (Richmond Road), 44.5 north of the south end of the guardrail on the east side of the eastbound lanes of U.S. Route 60 (Richmond Road).

STATION NAME: 303
Latitude (dms) 37 23 24.58958
Longitude (dms) 76 48 13.93840
State Plane Zone (4502) Virginia South
Scale 0.999945479
Convergence (dms) 1 01 45.920
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETiC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>304</td>
<td>Meters</td>
<td>3650760.578</td>
<td>1117168.693</td>
</tr>
<tr>
<td></td>
<td>U.S. Survey Ft.</td>
<td>11977536.998</td>
<td>3665244.285</td>
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<tr>
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<td>Int'l Ft.</td>
<td>11977560.953</td>
<td>3665251.616</td>
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STA. AZIMUTH MARK

<table>
<thead>
<tr>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meters</td>
<td>3651291.307</td>
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<tr>
<td>U.S. Survey Ft.</td>
<td>11979278.231</td>
<td>3665241.467</td>
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<tr>
<td>Int'l Ft.</td>
<td>11979302.190</td>
<td>3665248.798</td>
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REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
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<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
<td>N70°12'00&quot;W</td>
<td>37.25</td>
</tr>
<tr>
<td>RM2</td>
<td>N20°38'37&quot;E</td>
<td>69.09</td>
</tr>
<tr>
<td>RM3 AZ.</td>
<td>S89°54'26&quot;E</td>
<td>1741.24</td>
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LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1"=4000')

VERiCAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 106.86
Elevation of Azimuth Mark in Feet = 102.95

FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE

COUNiTY / CITY

JAMES CiTY COUNTY

DISTRICT

STONEHOUSE

STATION NUMBER

FIELD BOOKS

304

P.S. 365, P. 9-11
STATION DESCRIPTION

STATION NO. 304:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 304." The disk is located near the intersection of U.S. Route 60 (Richmond Road) and State Route 1020, 3.5' from the back of the curb of the eastbound lanes of U.S. Route 60 (Richmond Road), 4.7' north of a 42" picket fence, 29' southwest of a "route" sign, and 11.7' southeast of the center of the catch basin.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 304 – REFERENCE MARK NO. 1." The disk is located 27.9' south of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 4.9' north of a 42" picket fence, and 24' northeast of utility pole #UB22 (Chesapeake & Potomac Telephone Company #1856).

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 304 – REFERENCE MARK NO. 2." The disk is located 44.5' south of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 41.5' north of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 89' east of the center line of the pavement of a median crossing, and 59.7' northeast of a reflector sign.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 304 – REFERENCE MARK NO. 3 AZ." The disk is located 21' south of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 12.8' east of Chesapeake & Potomac Telephone Company utility pole #1870, and 21.3' west of a telephone manhole.

STATION NAME: 304
Latitude (dms) 37 22 36.83176
Longitude (dms) 76 47 51.57450
State Plane Zone (4502) Virginia South
Scale 0.999945415
Convergence (dms) 1 01 59.493
**JAMES CITY COUNTY**
**PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK**
**JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA**

### VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>305</td>
<td>Meters</td>
<td>3652585.863</td>
<td>1117124.228</td>
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<tr>
<td></td>
<td>U.S. Survey Ft.</td>
<td>11984411.276</td>
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<td>Intl Ft.</td>
<td>11984453.245</td>
<td>3665105.735</td>
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### STA. AZIMUTH MARK

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>305 RM3 AZ.</td>
<td>Meters</td>
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<td>Intl Ft.</td>
<td>1198673.708</td>
<td>3667278.195</td>
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### VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 132.12

Elevation of Azimuth Mark in Feet = 113.53

### COUNTY / CITY

JAMES CITY COUNTY

### DISTRICT

STONEHOUSE

### STATION NUMBER

305

### FIELD BOOKS

P.S. 365, P. 7-9

### LOCATION SKETCH (Not to Scale)

![Location Sketch](image)

### LOCATION MAP (Scale: 1"=4000')

![Location Map](image)
STATION DESCRIPTION

STATION NO. 305: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 305." The disk is located approximately 0.3 mile northeast of U.S. Route 60 (Richmond Road), 1.5' southeast of a metal guardrail southeast of the pavement of State Route 607 (Croaker Road), 28.2' south of the southeast corner of the bridge on State Route 607 (Croaker Road).

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 305 – REFERENCE MARK NO. 1." The disk is located 2.7' southeast of a metal guardrail southeast of the pavement of State Route 607 (Croaker Road), and 72.1' south of the southeast corner of the bridge on State Route 607 (Croaker Road).

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 305 – REFERENCE MARK NO. 2." The disk is located 2' northwest of a metal guardrail northwest of the pavement of State Route 607 (Croaker Road), 28.3' west of the southwest corner of the bridge on State Route 607 (Croaker Road).

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 305 – REFERENCE MARK NO. 3 AZ." The disk is located at the intersection of State Route 607 (Croaker Road) and State Route 30 (Rochambeau Drive), 35.7' southeast of the center line of the pavement of the southbound lanes of State Route 607 (Croaker Road), 28.2' northwest of the center line of the pavement of the northbound lanes of State Route 607 (Croaker Road), 5.5' southwest of the center of a concrete headwall, and 7.9' east of a "route" sign.

STATION NAME: 305
Latitude (dms) 37 22 34.15554
Longitude (dms) 76 46 26.45298
State Plane Zone (4502) Virginia South
Scale 0.999945413
Convergence (dms) 1 02 51.156
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

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<th>STATION NO.</th>
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<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<tbody>
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<td>306</td>
<td>Miles</td>
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<td>U.S. Survey Ft.</td>
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<td>Int'l Ft.</td>
<td>11986428.328</td>
<td>3661147.868</td>
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<table>
<thead>
<tr>
<th>STA. AZIMUTH MARK</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<tbody>
<tr>
<td>306 RM3 AZ.</td>
<td>Miles</td>
<td>3653720.257</td>
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<td>U.S. Survey Ft.</td>
<td>11987247.211</td>
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<td>Int'l Ft.</td>
<td>11987271.186</td>
<td>3658856.493</td>
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**VERTICAL DATA**

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 100.40

Elevation of Azimuth Mark in Feet = 93.46

**FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE**

**COUNTY / CITY**

JAMES CITY COUNTY

**DISTRICT**

STONEHOUSE

**STATION NUMBER**

306

**FIELD BOOKS**

P.S. 365, P. 2-4

---

**REFERENCE AND AZIMUTH MARK LOCATIONS**

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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<tbody>
<tr>
<td>RM1</td>
<td>N41°52'08&quot;W</td>
<td>80.11</td>
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<tr>
<td>RM2</td>
<td>N36°05'31&quot;E</td>
<td>64.83</td>
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<tr>
<td>RM3 AZ.</td>
<td>S20°11'44&quot;E</td>
<td>2441.47</td>
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**LOCATION MAP** (Scale: 1"=4000')

**LOCATION SKETCH (Not to Scale)**

NORGE SCHOOL

EASTBOUND

RICHMOND ROAD

U.S. RTE. 60

WESTBOUND

TEXACO

MAIN STATION 306

---

FM TRACKS 306
STATION DESCRIPTION

STATION NO. 306: A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 306." The disk is located near the intersection of U.S. Route 60 (Richmond Road) and State Route 9634 (entrance to Norge School), 12.9' northeast of the back of the curb of U.S. Route 60 (Richmond Road), 50.8' southeast of utility pole #OH25, and 126.2' northwest of utility pole #OH23.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 306 – REFERENCE MARK NO. 1." The disk is located 5' northeast of the back of the curb of U.S. Route 60 (Richmond Road), 16.7' southeast of the "Texaco" sign, and 4.7' east of the center of a storm drain manhole.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 306 – REFERENCE MARK NO. 2." The disk is located 37.1' southwest of the railroad tracks, 91.5' southeast of the southeast corner of the Texaco parking lot, and 78.6' southeast of utility pole #OH25.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 306 – REFERENCE MARK NO. 3 AZ." The disk is located 70.4' south of a "No U-Turn" sign, 3.7' northeast of the back of the curb of the eastbound lanes of U.S. Route 60 (Richmond Road), and 4.8' southwest of the back of the curb of the westbound lanes of U.S. Route 60 (Richmond Road).

STATION NAME: 306
Latitude (dms) 37 21 54.66846
Longitude (dms) 76 46 02.66404
State Plane Zone (4502) Virginia South
Scale 0.999945402
Convergence (dms) 1 03 05.594
STATION DESCRIPTION

STATION NO. 307: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 307." The disk is located approximately 0.85 mile north of State Route 646 (Lightfoot Road) in the median of U.S. Route 60 (Richmond Road), 70.5' west of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 197.4' southeast of a "Stoplight Ahead" sign, 116.8' southwest of utility pole #QN35, and 139.2' north of a 24" magnolia.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 307 - REFERENCE MARK NO. 1." The disk is located 21.5' west of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 93.9' northwest of utility pole #QN54, 94.8' southwest of utility pole #QN35, and 97.0' northeast of a 24" magnolia.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 307 - REFERENCE MARK NO. 2." The disk is located 25.5' east of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 194.8' south of a "Stoplight Ahead" sign, and 144.8' northwest of a 24" magnolia.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 306 - REFERENCE MARK NO. 3 AZ." The disk is located 70.4' south of a "No U-Turn" sign, 3.7' east of the back of the curb of the eastbound lanes of U.S. Route 60 (Richmond Road), and 4.8' west of the back of the curb of the westbound lanes of U.S. Route 60 (Richmond Road).

STATION NAME: 307
Latitude (dms) 37 21 04.26870
Longitude (dms) 76 45 47.53261
State Plane Zone (4502) Virginia South
Scale 0.999945442
Convergence (dms) 1 03 14.777
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
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<th>NORTHING (Y)</th>
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<td>11987969.427</td>
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<td>Int'l Ft.</td>
<td>11987993.403</td>
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STA. AZIMUTH MARK

VEPCO #40 (1990)

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<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<tr>
<td>Meters</td>
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<td>11986495.601</td>
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REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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<tbody>
<tr>
<td>RM1</td>
<td>S43°53'58&quot;E</td>
<td>57.77</td>
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<tr>
<td>RM2</td>
<td>S33°14'34&quot;W</td>
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<td>VEPCO #40 (1990)</td>
<td>N43°23'14&quot;W</td>
<td>2180.43</td>
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LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1"=4000')

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 113.37
Elevation of Azimuth Mark in Feet = 98.04

COUNTY / CITY
JAMES CITY COUNTY

DISTRICT
POWHATAN

STATION NUMBER
308

FIELD BOOKS
P.S. 363, P. 76-77
STATION DESCRIPTION

STATION NO. 308:
A 3¼" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 308." The disk is located on the south side of State Route 614 (Centerville Road) in a Virginia Power right-of-way, 17.1' northwest of wooden utility pole #58–96, 181.5' east of metal utility pole #285/335, and 59.3' southwest of utility pole #209/370.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 308 – REFERENCE MARK NO. 1." The disk is located 41.5' southeast of wooden utility pole #58–96, 68.2' south of utility pole #209/370, and 94.0' east of a water valve manhole.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 308 – REFERENCE MARK NO. 2." The disk is located 5.9' northeast of a Newport News Water Transmission Main concrete monument (Sta. 163+10), and 10.2' north of a water valve manhole.

REFERENCE MARK NO. VEPCO #40 (1990):
A 3¼" disk in concrete, set flush with the ground surface, stamped "VEPCO #40." The disk is located 0.85 mile southwest of the intersection of U.S. Route 60 (Richmond Road) and State Route 614 (Centerville Road), 18.0' northwest of the center line of the pavement of State Route 614 (Centerville Road), 30.5' east of the southwest corner of a concrete slab, 10.6' southwest of utility pole #ND40, and 36.5' southwest of the center of an asphalt drive beside the Handy Ice building.

STATION NAME: 308
Latitude (dms)  37 19  59.56880
Longitude (dms)  76 45  45.92734
State Plane Zone (4502) Virginia South
Scale 0.999945579
Convergence (dms)  1 03 15.752
# JAMES CITY COUNTY

## PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<td>Meters</td>
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<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<td>309 RM3 AZ.</td>
<td>Meters</td>
<td>3651349.180</td>
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### VERTICAL DATA

- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 101.76
- Elevation of Azimuth Mark in Feet = 114.00

### COUNTY / CITY

- JAMES CITY COUNTY
- DISTRICT
- POWHATAN

### STATION NUMBER

- 309 RESET 1990

### FIELD BOOKS

- P.S. 363, P. 70-71
- P.S. 365, P. 30-31, 48

### LOCATION MAP (Scale: 1"=4000')

- Map showing station locations and reference marks.

### LOCATION SKETCH (Not to Scale)

- Sketch showing the relationship between station marks and roadways.

- CENTREVILLE ROAD
- RM1
- RM2
- RM3 AZ

- RM3 AZ 1542.87
- "STOP" SIGN
- "ROUTE" SIGN
- "ADAPT A HIGHWAY" SIGN

- MAIN STATION 309
STATION DESCRIPTION

STATION NO. 309 RESET 1990: A 3⅜" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 309 RESET 1990." The disk is located approximately 25' southeast of the center line of the pavement of State Route 614 (Centerville Road), 14.2' northeast of a "route" sign, and 49.2' southwest of a telephone manhole.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 309 - REFERENCE MARK NO. 1." The disk is located in a grass island, 2' west of the back of the curb on State Route 614 (Centerville Road), 12.5' southeast of utility pole #AC84, and 25.4' south of the concrete base of the "S.O.S. Market" sign.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 309 - REFERENCE MARK NO. 2." The disk is located 214' southwest of the center line of the pavement of State Route 612 (Long Hill Road), 57' east of a telephone manhole, 6.1' north of the "Adopt a Highway" sign, and 59.7' south of a "stop" sign in the concrete median at the intersection of State Route 614 (Centerville Road) and State Route 612 (Long Hill Road).

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 309 - REFERENCE MARK NO. 3 AZ." The disk is located 8.2' southeast of the east edge of the pavement of State Route 614 (Centerville Road), 58.5' northwest of a corner of the screened porch of residence #5400, and 72.7' northeast of utility pole #FG97.

STATION NAME: 309 RESET 1990
Latitude (dms) 37 18 58.23741
Longitude (dms) 76 47 22.70025
State Plane Zone (4502) Virginia South Scale 0.999945800
Convergence (dms) 1 02 17.018
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
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<td>Meters</td>
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<td>11985918.167</td>
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STA. AZIMUTH MARK

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<td>3653946.675</td>
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<td>Int'l</td>
<td>11988014.025</td>
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REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
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<th>OBJECT</th>
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<th>DISTANCE (FEET)</th>
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<tbody>
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<td>RM1</td>
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<tr>
<td>RM3 AZ.</td>
<td>N77°45'44&quot;E</td>
<td>2144.59</td>
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LOCATION MAP (Scale: 1"=2000)

LOCATION SKETCH (Not to Scale)
STATION DESCRIPTION

STATION NO. 310:
A 3¼" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 310." The disk is located near the intersection of State Route 612 (Long Hill Road) and State Route 1570 (Longhill Gate), 17.9' north of the center line of the pavement of State Route 612 (Long Hill Road) and 59.2' west of utility pole #MA55.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 310 – REFERENCE MARK NO. 1." The disk is located 27.8' south of the center line of the pavement of State Route 612 (Long Hill Road), 51.2' east of a concrete light pole located in the grass median of State Route 1570 (Longhill Gate), 37.4' west of utility pole #MA36, and 6.2' south of a "stop" sign.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 8" below the ground surface, stamped "STATION NO. 310 – REFERENCE MARK NO. 2." The disk is located 19.2' north of the center line of the pavement of State Route 612 (Long Hill Road) on the center line of the the median of State Route 1570 (Longhill Gate) extended, and 97.1' east of utility pole #MA63.

REFERENCE MARK NO. 3 AZ:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 310 – REFERENCE MARK NO. 3 AZ." The disk is located on the north side of State Route 612 (Long Hill Road) east of Lafayette High School entrance, 59.4' northeast of a fire hydrant, 6' north of the north edge of a 4' concrete walk, and 22.5' southwest of utility pole #QB52.

STATION NAME: 310
Latitude (dms) 37 18 48.31369
Longitude (dms) 76 46 13.26297
State Plane Zone (4502) Virginia South Scale 0.999945844
Convergence (dms) 1 02 59.161
## JAMES CITY COUNTY
### PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

### VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
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<td>Meters</td>
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<td>11986000.709</td>
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### STA. AZIMUTH MARK

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<th>UNITS</th>
<th>EASTING (X)</th>
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<tr>
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<td>Int'l Ft.</td>
<td>11982987.191</td>
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### VERTICAL DATA

- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 48.11

### FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE

### Elevation of Azimuth Mark in Feet = 57.89

### COUNTY / CITY
JAMES CITY COUNTY

### DISTRICT
POWHATAN

### STATION NUMBER
311

### FIELD BOOKS
P.S. 363, P. 66–67

### REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
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<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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<tbody>
<tr>
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<td>RM2</td>
<td>S56°55'59&quot;E</td>
<td>49.37</td>
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<tr>
<td>RM3 AZ.</td>
<td>N71°11'43&quot;W</td>
<td>3183.43</td>
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### LOCATION SKETCH (Not to Scale)

### LOCATION MAP (Scale: 1"=2000')

---

**STATION LOCATION**

---

**FORDS COLONY**
STATION DESCRIPTION

STATION NO. 311:
A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 311." The disk is located approximately 0.6 mile southeast of the intersection of John Pott Drive and Fords Colony Drive, 15.7' west of the center line of the pavement of John Pott Drive, 122.5' northwest of a telephone pedestal, and 55.5' southeast of an 18" oak.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 311 – REFERENCE MARK NO. 1." The disk is located 14.8' west of the center line of the pavement of John Pott Drive, 52.8' northwest of a telephone pedestal, 146.8' southeast of light pole #106, and 43.5' southeast of an 18" oak.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 311 – REFERENCE MARK NO. 2." The disk is located 31.8' east of the center line of the pavement of John Pott Drive, 8.0' north of a sanitary manhole, 108.1' northeast of a telephone pedestal and 98' southeast of another telephone pedestal.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 311 – REFERENCE MARK NO. 3 AZ." The disk is located approximately 0.5 mile southwest of the intersection of John Pott Drive and Fords Colony Drive, 8.4' southeast of the east edge of the pavement of Fords Colony Drive, 164.6' southeast of a fire hydrant, and 52.5' southeast of light pole #085.

STATION NAME: 311
Latitude (dms) 37° 18' 10.60264
Longitude (dms) 76° 46' 13.10618
State Plane Zone (4502) Virginia South
Scale 0.999946033
Convergence (dms) 1° 02' 59.256
**JAMES CITY COUNTY**
**PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK**
**JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA**

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>312</td>
<td>Meters</td>
<td>3654676.837</td>
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<td>U.S. Survey Ft.</td>
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<td>Int'l Ft.</td>
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<table>
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<tr>
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<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>312 RM3 AZ.</td>
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**REFERENCE AND AZIMUTH MARK LOCATIONS**

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<tr>
<th>OBJECT</th>
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<th>DISTANCE (FEET)</th>
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<tbody>
<tr>
<td>RM1</td>
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<td>RM2</td>
<td>N49°53'22&quot;W</td>
<td>61.38</td>
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<tr>
<td>RM3 AZ.</td>
<td>N25°47'26&quot;E</td>
<td>1082.84</td>
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**LOCATION SKETCH (Not to Scale)**

**LOCATION MAP (Scale: 1"=4000')**

**VERTICAL DATA**

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 74.23

**FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE**

Elevation of Azimuth Mark in Feet = 83.31

**COUNTY / CITY**
JAMES CITY COUNTY

**DISTRICT**
BERKELEY

**STATION NUMBER**
312

**FIELD BOOKS**
P.S. 363, P. 68–69
STATION DESCRIPTION

STATION NO. 312: A 3\(\frac{1}{4}\)" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 312." The disk is located on Williamsburg West Drive 0.45 mile east of the intersection of Williamsburg West Drive and Edinburgh Drive, 0.35 mile west of State Route 1510 (Country Club Drive), 29.1' southeast of the center line of the pavement of Williamsburg West Drive, 27' northwest of a telephone pedestal and 168.6' southwest of a fire hydrant.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 312 – REFERENCE MARK NO. 1." The disk is located 29.8' southeast of the center line of the pavement of Williamsburg West Drive and 89.5' northeast of a telephone pedestal.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 312 – REFERENCE MARK NO. 2." The disk is located 32.3' northwest of the center line of the pavement of Williamsburg West Drive and 176' northwest of a fire hydrant.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 312 – REFERENCE MARK NO. 3 AZ." The disk is located 46.8' northwest of the center line of the pavement of Williamsburg West Drive, 64.8' south of the northeast corner of a 72" wooden fence, and 116.6' southwest of a telephone pedestal.

STATION NAME: 312
Latitude (dms) 37 17 48.21189
Longitude (dms) 76 45 19.04517
State Plane Zone (4502) Virginia South
Scale 0.999946160
Convergence (dms) 1 03 32.067
## JAMES CITY COUNTY
### PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
#### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<td>313</td>
<td>Meters</td>
<td>3650.805811</td>
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<td>Int'l Ft.</td>
<td>11977.070355</td>
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<th>UNITS</th>
<th>EASTING (X)</th>
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<td>11977.639552</td>
<td>3633.667528</td>
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**REFERENCE AND AZIMUTH MARK LOCATIONS**

<table>
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<tr>
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<td>RM1</td>
<td>N87°59'02&quot;W</td>
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<td>RM2</td>
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<td>RM3 AZ.</td>
<td>S03°33'43&quot;W</td>
<td>1123.55</td>
</tr>
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**LOCATION SKETCH**

**LOCATION MAP** (Scale: 1"=2000)

---

**ELEVATION DATA**

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 97.45

Elevation of Azimuth Mark in Feet = 93.86

**COUNTY / CITY**

JAMES CITY COUNTY

**DISTRICT**

POWHATAN

**STATION NUMBER**

313

**FIELD BOOKS**

P.S. 363, P. 44-45
STATION DESCRIPTION

STATION NO. 313: A 3¾" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 313." The disk is located in grass median of Manchester Road (the service entrance for Fords Colony), 1.2' northeast of the back of the curb, 43.1' southwest of the "service entrance" sign and 48.3' southeast of a "stop" sign.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 313 – REFERENCE MARK NO. 1." The disk is located 7.8' northwest of the west edge of the pavement of State Route 614 (Centerville Road), 20.0' north of the north building line of building #4697, 9.0' northeast of a 12" dogwood, and 16.5' south of the south end of a 12" concrete pipe under an asphalt drive.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 313 – REFERENCE MARK NO. 2." The disk is located 40' southwest of the center line of the pavement of State Route 614 (Centerville Road), 6.8' northeast of the edge of the pavement, and 17.4' northwest of a "stop" sign.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 313 – REFERENCE MARK NO. 3 AZ." The disk is located 16.4' northwest of the center line of the pavement of State Route 614 (Centerville Road), 153.4' north of utility pole #TN37 and 127.3' northwest of utility pole #TN66.

STATION NAME: 313
Latitude (dms) 37 17 35.65808
Longitude (dms) 76 47 56.53611
State Plane Zone (4502) Virginia South
Scale 0.999946237
Convergence (dms) 1 01 56.482
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEOETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
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<th>EASTING (X)</th>
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<th>UNITS</th>
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<td></td>
<td>U.S. Survey Ft.</td>
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<td>11975803.793</td>
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VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 87.41

Elevation of Azimuth Mark in Feet = 75.15

COUNTY / CITY
JAMES CITY COUNTY

DISTRICT
POWHATAN

STATION NUMBER
314

FIELD BOOKS
P.S. 363, P. 42–43

REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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<tr>
<td>RM1</td>
<td>N20°26’32”E</td>
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<td>RM2</td>
<td>S72°20’39”E</td>
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<tr>
<td>RM3 AZ.</td>
<td>S15°22’06”W</td>
<td>1225.71</td>
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LOCATION MAP (Scale: 1”=4000')

STATION LOCATION

LOCATION SKETCH (Not to Scale)

[Map showing station location and surrounding area]
STATION DESCRIPTION

STATION NO. 314:
A 3 1/4" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 314." The disk is located near the intersection of State Route 614 (Centerville Road) and State Route 613 (News Road), 22.7' northwest of the center line of the pavement of State Route 614 (Centerville Road), 9.0' southeast of a 42" split rail fence and 49.5' northeast of utility pole #QH63.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 314 – REFERENCE MARK NO. 1." The disk is located 22.9' northwest of the center line of the pavement of State Route 614 (Centerville Road), 6.6' southeast of a 42" split rail fence and 75.1' south from the end of the 42" split rail fence.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 314 – REFERENCE MARK NO. 2." The disk is located 30.7' southeast of the center line of the pavement of State Route 614 (Centerville Road), 15' north of a "stop" sign at the southeast corner intersection of State Route 614 (Centerville Road) and State Route 613 (News Road), and 36.4' southwest of utility pole #QH85.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 314 – REFERENCE MARK NO. 3 AZ." The disk is located 21.2' southeast of the center line of the pavement of State Route 614 (Centerville Road) and 38.1' northeast of a telephone pedestal.

STATION NAME: 314
Latitude (dms) 37 16 53.58670
Longitude (dms) 76 48 17.04751
State Plane Zone (4502) Virginia South
Scale 0.999946521
Convergence (dms) 1 01 44.033
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
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<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
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<td>315</td>
<td>Meters</td>
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STA. AZIMUTH MARK

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REFERENCE AND AZIMUTH MARK LOCATIONS

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<tr>
<td>RM1</td>
<td>S66°06'04&quot;W</td>
<td>40.70</td>
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<td>RM2</td>
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<td>1205.60</td>
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LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1"=2000')

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 64.80
Elevation of Azimuth Mark in Feet = 55.88

COUNTY / CITY
JAMES CITY COUNTY

DISTRICT
JAMESTOWN

STATION NUMBER
315

FIELD BOOKS
P.S. 363, P. 40, 41
STATION DESCRIPTION

STATION NO. 315: A 3¼" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 315." The disk is located on State Route 614 (Centerville Road) approximately 0.5 mile north of State Route 5 (John Tyler Highway), 18.6' east of the center line of the pavement of State Route 614 (Centerville Road), 49.1' southeast of a utility pole, and 45.9' southeast of a 12' pine.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 315 – REFERENCE MARK NO. 1." The disk is located 22' west of the center line of the pavement of State Route 614 (Centerville Road), and 32.0' south of a utility pole.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 315 – REFERENCE MARK NO. 2." The disk is located 18.1' east of the center line of the pavement of State Route 614 (Centerville Road), 39.1' northeast of a utility pole, and 5.2' northwest of a 12' pine.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 315 – REFERENCE MARK NO. 3 AZ." The disk is located 19.2' east of the center line of the pavement of State Route 614 (Centerville Road), 65.0' northwest of a utility pole #SF55, and 52.6' southeast of a telephone pedestal.

STATION NAME: 315
Latitude (dms) 37 15 40.37138
Longitude (dms) 76 48 13.11142
State Plane Zone (4502) Virginia South
Scale 0.999947113
Convergence (dms) 1 01 46.422
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEOCENTRIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1983)

<table>
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<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<tbody>
<tr>
<td>316</td>
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<td>11981682.102</td>
<td>3612754.483</td>
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<th>NORTHING (Y)</th>
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<tbody>
<tr>
<td>RM3 AZ.</td>
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<td>11982491.214</td>
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</table>

VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 27.17
FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE
Elevation of Azimuth Mark in Feet = 26.63

COUNTY / CITY
JAMES CITY COUNTY

DISTRICT
BERKELEY

STATION NUMBER
316

FIELD BOOKS
P.S. 363, P. 38–39

REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
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<tr>
<th>OBJECT</th>
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<tbody>
<tr>
<td>RM1</td>
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<td>RM2</td>
<td>N39°22'02&quot;W</td>
<td>104.81</td>
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<tr>
<td>RM3 AZ.</td>
<td>S23°27'18&quot;E</td>
<td>2032.80</td>
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LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1"=2000')

STATION LOCATION
STATION DESCRIPTION

STATION NO. 316: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 316." The disk is located near the intersection of State Route 614 (Greensprings Road) and State Route 1150 (Mott Lane), 27.5' northeast of the center line of the pavement of State Route 614 (Greensprings Road), 36.1' west of the eastern building line extended of a one-story stone residence, and 135.6' northwest of utility pole #CF98.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 316 - REFERENCE MARK NO. 1." The disk is located 45.6' southwest of the center line of the pavement of State Route 614 (Greensprings Road), 21.4' northeast of a brick pillar, 1.8' east of a "route" sign, and 54.9' southeast of a fire hydrant.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 316 - REFERENCE MARK NO. 2." The disk is located 24.4' northeast of the center line of the pavement of State Route 614 (Greensprings Road) on the center line of the pavement extended of State Route 1150 (Mott Lane), and 87.1' northeast of a fire hydrant.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 316 - REFERENCE MARK NO. 3 AZ." The disk is located 20.7' southwest of the center line of the pavement of State Route 614 (Greensprings Road), and 67.8' northwest of utility pole #5–92.

<table>
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<th>STATION NAME:</th>
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<tbody>
<tr>
<td>Latitude (dms)</td>
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<td>Longitude (dms)</td>
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<tr>
<td>Convergence (dms)</td>
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</table>
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEOETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
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<th>STATION NO.</th>
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<tbody>
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<td>317</td>
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<td>Int'l Ft.</td>
<td>11984180.679</td>
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<table>
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<th>UNITS</th>
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<tbody>
<tr>
<td>316 RM3 AZ.</td>
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<td>Int'l Ft.</td>
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<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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<tbody>
<tr>
<td>RM1</td>
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<td>RM3 AZ.</td>
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LOCATION MAP (Scale: 1"=2000')

LOCATION SKETCH (Not to Scale)
STATION DESCRIPTION

STATION NO. 317:
A 3¾" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 317." The disk is located 300' ± west of State Route 31 (Jamestown Road), 17.5' south of the center line of the pavement of State Route 680 (4-H Club Road), 24' east of a sanitary manhole, and 14.5' north of utility pole #HC42.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 317 – REFERENCE MARK NO. 1." The disk is located 16.1' north of the center line of the pavement of State Route 680 (4-H Club Road), 32.2' east of utility pole #HC24, 36.2' north of a sanitary manhole, and 2.7' northwest of the west end of a 15" concrete pipe.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 317 – REFERENCE MARK NO. 2." The disk is located 16.5' ± south of the center line of the pavement of State Route 680 (4-H Club Road), and 83.1' south of a telephone pedestal.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 316 – REFERENCE MARK NO. 3 AZ." The disk is located 20.7' southwest of the center line of the pavement of State Route 614 (Greensprings Road), 67.8' northwest of utility pole #5–92, and 73.2' northwest of another utility pole.

STATION NAME: 317
Latitude (dms) 37 13 57.11013
Longitude (dms) 76 46 41.42540
State Plane Zone (4502) Virginia South
Scale 0.999948162
Convergence (dms) 1 02 42.068
STATION DESCRIPTION

STATION NO. 318:
A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 318." The disk is located near the intersection of State Route 31 (Jamestown Road) and State Route 615 (Ironbound Road), 21.6' south of the center line of the pavement of State Route 31 (Jamestown Road), 29.9' northeast of utility pole #51710, and 9.4' west of a "route" sign.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 318 – REFERENCE MARK NO. 1." The disk is located on the northwest corner of State Route 31 (Jamestown Road) intersection with State Route 615 (Ironbound Road), 21.2' northeast of an "Adopt a Highway" sign, 10' north of a telephone pedestal, and 33.1' southeast of a Virginia Department of Highways concrete monument.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 318 – REFERENCE MARK NO. 2." The disk is located 57' south of the center line of the pavement of State Route 31 (Jamestown Road), 31.4' southwest of a "route" sign, and 7.6' southeast of utility pole #51710.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 318 – REFERENCE MARK NO. 3 AZ." The disk is located on the north side of State Route 31 (Jamestown Road), 0.9' from the back of the curb return on the west side of the entrance to Jamestown Center, 24.2' northeast from the end of the curb, and 9.4' south of a utility pole.

STATION NAME: 318
Latitude (dms) 37 14 16.33119
Longitude (dms) 76 45 27.90179
State Plane Zone (4502) Virginia South
Scale 0.999947948
Convergence (dms) 1 03 26.692
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETiC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<td>11995919.117</td>
<td>3622521.654</td>
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<td></td>
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<td>11995943.109</td>
<td>3622528.899</td>
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STA. AZIMUTH MARK

<table>
<thead>
<tr>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<tbody>
<tr>
<td>Meters</td>
<td>3656012.886</td>
<td>1104240.209</td>
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<tr>
<td>U.S. Survey Ft.</td>
<td>11994768.944</td>
<td>3622828.085</td>
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<tr>
<td>Int'l Ft.</td>
<td>11994792.934</td>
<td>3622835.331</td>
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REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
<td>S12°09'22&quot;E</td>
<td>58.87</td>
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<tr>
<td>RM2</td>
<td>S66°16'28&quot;W</td>
<td>22.91</td>
</tr>
<tr>
<td>RM3 AZ.</td>
<td>N75°04'54&quot;W</td>
<td>1190.29</td>
</tr>
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</table>

LOCATION MAP (Scale: 1"=2000')
STATION DESCRIPTION

STATION NO. 319:
A 3¾" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 319." The disk is located at the southwest corner of the intersection of State Route 5 (John Tyler Highway) and State Route 199 (Strawberry Plains Road), 31.9' southwest of the center line of the pavement of the southbound lanes of State Route 199 (Strawberry Plains Road), 31.4' southeast of a metal traffic light pole, 30.3' east of the end of a 42" wooden and chainlink fence.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 319 – REFERENCE MARK NO. 1." The disk is located 35.4' southwest of the center line of the pavement of the southbound lanes of State Route 199 (Strawberry Plains Road), 22.9' northeast of a 42" wooden and chainlink fence, and 91.5' southeast of a metal traffic light pole.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 319 – REFERENCE MARK NO. 2." The disk is located 3.7' northeast of a 42" wooden and chainlink fence, 18.2' southeast of the end of the 42" wooden and chainlink fence, and 39.6' southwest of a metal traffic light pole.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 319 – REFERENCE MARK NO. 3 AZ." The disk is located on the north side of State Route 5 (John Tyler Highway), 12' northeast of the north edge of the pavement of State Route 5 (John Tyler Highway), 72' southwest of a metal reflector sign, and 30.8' northeast of a Virginia Department of Highways concrete monument.

STATION NAME: 319
Latitude (dms) 37 15 31.15078
Longitude (dms) 76 44 13.75267
State Plane Zone (4502) Virginia South
Scale 0.999947197
Convergence (dms) 1 04 11.695
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>320</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Miles</td>
<td>11986114.151</td>
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<tr>
<td></td>
<td>Feet</td>
<td>11986138.124</td>
<td>3618883.809</td>
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<table>
<thead>
<tr>
<th>STA. AZIMUTH MARK</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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</thead>
<tbody>
<tr>
<td>320 RM3 AZ.</td>
<td>Miles</td>
<td>11984529.688</td>
<td>3619005.786</td>
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<tr>
<td></td>
<td>Feet</td>
<td>11984553.658</td>
<td>3619013.024</td>
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REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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</thead>
<tbody>
<tr>
<td>RM1</td>
<td>N05°25'11&quot;E</td>
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<tr>
<td>RM2</td>
<td>S84°43'43&quot;E</td>
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<tr>
<td>RM3 AZ.</td>
<td>N85°20'16&quot;W</td>
<td>1589.72</td>
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VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 30.18
Elevation of Azimuth Mark in Feet = 21.05

COUNTY / CITY
JAMES CITY COUNTY
DISTRICT
JAMESTOWN

STATION NUMBER
320

FIELD BOOKS
P.S. 363, P. 48–50

LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1"=2000)
STATION DESCRIPTION

STATION NO. 320: A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 320." The disk is located approximately 44.9' southeast of the center line of the pavement of State Route 5 (John Tyler Highway), 51.1' southwest of a telephone pedestal.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 320 – REFERENCE MARK NO. 1." The disk is located 36.7' northwest of the center line of the pavement of State Route 5 (John Tyler Highway), and 6.4' northeast of utility pole #MP81.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 320 – REFERENCE MARK NO. 2." The disk is located 38.2' south of a telephone pedestal, and 16.2' west of utility pole #MP72½.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 320 – REFERENCE MARK NO. 3 AZ." The disk is located on the north side of State Route 5 (John Tyler Highway), 55.4' east of the center line extended of State Route 1438 (Saint Georges Boulevard), 11.8' northwest of the north edge of the pavement of State Route 5 (John Tyler Highway), 203.3' northeast of utility pole #IO85, and 59.4' northwest of utility pole #JO17.

STATION NAME: 320
Latitude (dms) 37 14 56.90896
Longitude (dms) 76 46 15.84623
State Plane Zone (4502) Virginia South
Scale 0.999947524
Convergence (dms) 1 02 57.593
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>321 RESET 1990</td>
<td>Meters</td>
<td>3654137.665</td>
<td>1104597.887</td>
</tr>
<tr>
<td>U.S. Survey Ft.</td>
<td>1198616.657</td>
<td>3624001.569</td>
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<tr>
<td>Int'l Ft.</td>
<td>1198640.634</td>
<td>3624008.817</td>
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</table>

<table>
<thead>
<tr>
<th>STA. AZIMUTH MARK</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meters</td>
<td>3653889.196</td>
<td>1104029.943</td>
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<tr>
<td>U.S. Survey Ft.</td>
<td>11987801.470</td>
<td>3622138.238</td>
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<td>Int'l Ft.</td>
<td>11987825.445</td>
<td>3622145.483</td>
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VERtical DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 78.72
FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE
Elevation of Azimuth Mark in Feet = 73.82

COUNTY / CITY
JAMES CITY COUNTY
DISTRICT
BERKELEY

STATION NUMBER
321 RESET 1990

FIELD BOOKS
P.S. 363, P. 50-52
P.S. 365, P. 29-30 & 32

LOCATION MAP (Scale: 1"=2000)

LOCATION SKETCH (Not to Scale)
**STATION DESCRIPTION**

**STATION NO. 321 RESET 1990:**
A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 321 RESET 1990." The disk is located on the west side of State Route 615 (Ironbound Road), north of the entrance to Powhatan Plantation, 0.25' mile south of its intersection with State Route 1465 (Old Field Road), 31.0' northwest of the end of the curb on the west side of State Route 615 (Ironbound Road), 11.8' north of utility pole #RJ05, and 12.5' northeast of the most northerly guy wire from utility pole #RJ05.

**REFERENCE MARK NO. 1**
**RESET 1990:**
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 321 – REFERENCE MARK NO. 1 RESET 1990." The disk is located 17.0' east of the east edge of the pavement of State Route 615 (Ironbound Road), 84' southwest of an approximate woods line.

**REFERENCE MARK NO. 2:**
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 321 – REFERENCE MARK NO. 2." The disk is located 22.4' southeast of the east edge of the pavement of State Route 615 (Ironbound Road), 10.4' south of a fire hydrant, 12.2' north of utility pole #RJ45.

**REFERENCE MARK NO. 3 AZ.:**
A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 321 – REFERENCE MARK NO. 3 AZ." The disk is located 30.3' northwest of the center line of the pavement of State Route 615 (Ironbound Road), 31.4' northeast of utility pole #PG53, and 21.5' northwest of the west end of an 18" concrete storm drain pipe.

<table>
<thead>
<tr>
<th>STATION NAME:</th>
<th>321 RESET 1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude (dms)</td>
<td>37 15 48.21344</td>
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<tr>
<td>Longitude (dms)</td>
<td>76 45 42.65852</td>
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<tr>
<td>State Plane Zone (4502) Virginia South</td>
<td></td>
</tr>
<tr>
<td>Scale</td>
<td>0.999947044</td>
</tr>
<tr>
<td>Convergence (dms)</td>
<td>1 03 17.736</td>
</tr>
</tbody>
</table>
STATION DESCRIPTION

STATION NO. 322: A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 322." The disk is located approximately 0.6 mile west of the intersection of State Route 615 (Ironbound Road) and State Route 1470 (Powhatan Secondary Road), 21.3' east of the center line of the pavement of State Route 1470 (Powhatan Secondary Road), 4.2' east of a metal guardrail, and 86.0' northeast of the end of a metal guardrail on the west side of State Route 1470 (Powhatan Secondary Road).

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 322 – REFERENCE MARK NO. 1." The disk is located on the east side of State Route 1470 (Powhatan Secondary Road), 7.6' east of a metal guardrail, and 41.5' north of the end of a metal guardrail.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 322 – REFERENCE MARK NO. 2." The disk is located on the west side of State Route 1470 (Powhatan Secondary Road), 2.8' west of a metal guardrail, and 86.6' north of the end of a metal guardrail.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 322 – REFERENCE MARK NO. 3 AZ." The disk is located 20.2' northwest of the center line of the pavement of State Route 615 (Ironbound Road), 45' northeast of a "speed limit" sign, and 63' ± southwest of the end of a group of pine trees.

STATION NAME: 322
Latitude (dms) 37 16 06.18041
Longitude (dms) 76 46 01.52381
State Plane Zone (4502) Virginia South
Scale 0.999946890
Convergence (dms) 1 03 06.286
STATION DESCRIPTION

STATION NO. 323:
A 3 ¼” disk in concrete, set approximately 2” below the ground surface, stamped "STATION NO. 323." The disk is located in a Virginia Power right-of-way approximately 0.1' west of State Route 1513 (King William Drive), 19.5' north of the center line of the pavement of State Route 658 (Old Towne Road), 17.8' northeast of a "25 MPH" sign, and 65.0' west of a Newport News Water Transmission Main concrete monument (Sta. 502+02).

REFERENCE MARK NO. 1:
A 2” disk in concrete, set approximately 3” below the ground surface, stamped "STATION NO. 323 – REFERENCE MARK NO. 1." The disk is located 52.2' south of the center line of the pavement of State Route 658 (Old Towne Road), 50.0' northwest of Vepco pole #58-111, and 76.2' southwest of a Newport News Water Transmission Main concrete monument (Sta. 502+62).

REFERENCE MARK NO. 2:
A 2” disk in concrete, set approximately 2” below the ground surface, stamped "STATION NO. 323 – REFERENCE MARK NO. 2." The disk is located 22' north of the center line of the pavement of State Route 658 (Old Towne Road), 85.4' east of a Newport News Water Transmission Main concrete monument (Sta. 701+65), and 42.5' northwest of a "25 MPH" sign.

REFERENCE MARK NO. 3 AZ.:
A 2” disk in concrete, set approximately 2” below the ground surface, stamped "STATION NO. 323 – REFERENCE MARK NO. 3 AZ." The disk is located in a grass median 21.2' east of the center line of the eastbound lanes of U.S. Route 60 (Richmond Road), 9.1' north of the north curb line extended of State Route 658 (Old Towne Road), and 8.2' southeast of a "One Way" sign.

STATION NAME: 323
Latitude (dms) 37 18 53.74312
Longitude (dms) 76 44 39.15693
State Plane Zone (4502) Virginia South
Scale 0.999945820
Convergence (dms) 1 03 56.276
STATION DESCRIPTION

STATION NO. 324: A 3\(\frac{3}{4}\)" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 324." The disk is located approximately 0.2 mile east of State Route 322 (Ashbury Road), 32.8' southeast of the center line of the pavement of State Route 612 (Long Hill Road), 34.8' northeast of a concrete pole, and 52.2' southwest of a telephone pedestal.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 324 – REFERENCE MARK NO. 1." The disk is located 40' northwest of a 72" chainlink fence, 20.0' southwest of a Chesapeake & Potomac Telephone Company utility pole #412G, and 8.7' southeast of a telephone pedestal.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 324 – REFERENCE MARK NO. 2." The disk is located 1.3' north of a 72" chainlink fence, 9.3' southeast of a concrete pole and 68.7' southwest of a telephone pedestal.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 324 – REFERENCE MARK NO. 3 AZ." The disk is located 27.5' northwest of the center line of the pavement of State Route 612 (Long Hill Road), 37.4' northeast of utility pole #GE51 (Chesapeake & Potomac Telephone Company #5GS), and 20.6' southwest of the "Assembly of God Church" sign.

STATION NAME: 324
Latitude (dms) 37 17 51.80651
Longitude (dms) 76 44 01.12400
State Plane Zone (4502) Virginia South
Scale 0.999946139
Convergence (dms) 1 04 19.359
**JAMES CITY COUNTY**
PRIMARY SERVICE AREA GEODETiC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>VIRGINIA STATE PLANE COORDINATES - SOUTH ZONE (NAD83)(1986)</th>
<th>VERTICAL DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STATION NO.</strong></td>
<td>Elevations refer to National Geodetic Vertical Datum (1929)</td>
</tr>
<tr>
<td>325</td>
<td>Elevation of Station in Feet = 110.67</td>
</tr>
<tr>
<td>STA. AZIMUTH MARK</td>
<td>FOR WRITTEN DESCRIPTION &amp; ADDITIONAL DATA SEE REVERSE SIDE</td>
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<tr>
<td>325 RM3 AZ.</td>
<td>Elevation of Azimuth Mark in Feet = 118.77</td>
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<table>
<thead>
<tr>
<th>OBJECT</th>
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</thead>
<tbody>
<tr>
<td>RM1</td>
<td>S61°04'53&quot;E</td>
<td>19.07</td>
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<tr>
<td>RM2</td>
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<td>48.40</td>
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<tr>
<td>RM3 AZ.</td>
<td>N10°00'08&quot;E</td>
<td>2334.22</td>
</tr>
</tbody>
</table>

**REFERENCE AND AZIMUTH MARK LOCATIONS**

**LOCATION SKETCH (Not to Scale)**

**LOCATION MAP (Scale: 1"=2000')**

**STATION LOCATION**
STATION DESCRIPTION

STATION NO. 325: A 3¾" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 325." The disk is located on the east side of State Route 615 (Ironbound Road) between Berkeley Elementary School entrance and State Route 616 (Strawberry Plains Road), 49.2' southeast of a metal traffic light pole, and 85.1' south of a storm drain manhole.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 325 – REFERENCE MARK NO. 1." The disk is located 98' southeast of a storm drain manhole, 3.6' northwest of a brick "school" sign, and 66.0' east of utility pole #GB25.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 325 – REFERENCE MARK NO. 2." The disk is located 2.3' east of utility pole #GB25, and 22.8' south of a metal traffic light pole.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 325 – REFERENCE MARK NO. 3 AZ." The disk is located 17.2' northwest of the center line of the pavement of State Route 615 (Ironbound Road), 36.1' northwest of a force main valve box, 109.7' north of a telephone pedestal, and 97.6' west of a fire hydrant.

STATION NAME: 325
Latitude (dms) 37 16 27.40524
Longitude (dms) 76 44 20.26054
State Plane Zone (4502) Virginia South
Scale 0.999946718
Convergence (dms) 1 04 07.745
STATION DESCRIPTION

STATION NO. 326: A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 326." The disk is located on the east side of State Route 1305 (Badische Entrance Road) 0.7 mile south of U.S. Route 60 (Pocahontas Trail), 20.5' east of the center line of the pavement of State Route 1305 (Badische Entrance Road), 17.2' west of the railroad tracks, 71.1' south of the center line of an 18" metal pipe at the concrete headwall.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 326 – REFERENCE MARK NO. 1." The disk is located 27' east of the center line of the pavement of State Route 1305 (Badische Entrance Road), 10.2' west of the railroad tracks, and 125.5' south of the center line of an 18" metal pipe at the concrete headwall.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 326 – REFERENCE MARK NO. 2." The disk is located 27' west of the center line of the pavement of State Route 1305 (Badische Entrance Road), 11.4' southeast of a nail in a 6" pine tree, and 85.9' southwest of the center line of a pipe at the concrete headwall.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 326 – REFERENCE MARK NO. 3 AZ." The disk is located 65' east of the center line of the pavement of State Route 1305 (Badische Entrance Road), 14.2' east of the railroad tracks, 48.2' northwest of a power box, and 26.9' northeast of utility pole #JN51.

STATION NAME: 326
Latitude (dms) 37 11 43.03864
Longitude (dms) 76 36 38.24793
State Plane Zone (4502) Virginia South
Scale 0.999949894
Convergence (dms) 1 08 48.152
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>327</td>
<td></td>
<td>3666820.918</td>
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<tr>
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<td>Meters</td>
<td>3607350.726</td>
<td>3607537.941</td>
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<table>
<thead>
<tr>
<th>STA. AZIMUTH MARK</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>327 RM3 AZ.</td>
<td></td>
<td>3606389.137</td>
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<tr>
<td></td>
<td>Meters</td>
<td>3608832.233</td>
<td>3608839.450</td>
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</table>

ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM (1929)
ELEVATION OF STATION IN FEET \( \approx 72.10 \)
ELEVATION OF AZIMUTH MARK IN FEET \( \approx 63.98 \)

COUNTY / CITY
JAMES CITY COUNTY

DISTRICT
ROBERTS

STATION NUMBER
327

FIELD BOOKS
P.S. 363, P. 4-5

REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
<td>N35°05'52&quot;W</td>
<td>44.21</td>
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<tr>
<td>RM2</td>
<td>S34°05'26&quot;W</td>
<td>55.27</td>
</tr>
<tr>
<td>RM3 AZ.</td>
<td>N47°25'29&quot;W</td>
<td>1923.71</td>
</tr>
</tbody>
</table>

LOCATION MAP (Scale: 1"=2000')

LOCATION SKETCH (Not to Scale)
STATION DESCRIPTION

STATION NO. 327:
A 3¾" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 327." The disk is located on the east side of U.S. Route 60 (Pocahontas Trail) approximately 120' south of Wisteria Drive (the entrance to Country Village Mobile Home Park) in the north end of a median adjacent to the 7–11 store parking lot, 25.2' north of utility pole #CE57, 3.9' northeast of the west curb of the median, 5.7' southeast of the center of the curb return, and 5.1' southwest of the east curb of the median.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 327 – REFERENCE MARK NO. 1." The disk is located on the east side of U.S. Route 60 (Pocahontas Trail), north of the 7–11 parking lot, 5' southwest of the 7–11 sign, 9.2' southeast of a utility pole, and 6.5' northeast of the curb.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 327 – REFERENCE MARK NO. 2." The disk is located 26' southwest of the center line of the pavement of U.S. Route 60 (Pocahontas Trail), 2.7' northwest of utility pole #CE31, and 49.5' southeast of a "Bus Stop" sign.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 327 – REFERENCE MARK NO. 3 AZ." The disk is located 24.5' southwest of the center line of the eastbound lanes of U.S. Route 60 (Pocahontas Trail) in front of residence #8701, 29.8' northwest of utility pole #FL79.

STATION NAME: 327
Latitude (dms) 37 12 56.41080
Longitude (dms) 76 37 13.12168
State Plane Zone (4502) Virginia South
Scale 0.999948894
Convergence (dms) 1 08 26.986
STATION DESCRIPTION

STATION NO. 328:
A 3¾" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 328." The disk is located in the median of U.S. Route 60 (Pocahontas Trail), 0.6 mile east of a water tower, 40.9' west of a "Keep Right" sign, 5.4' south of the back of the curb of the westbound lanes of U.S. Route 60 (Pocahontas Trail), 9.5' north of the back of the curb of the eastbound lanes of U.S. Route 60 (Pocahontas Trail).

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 328 – REFERENCE MARK NO. 1." The disk is located in the median of U.S. Route 60 (Pocahontas Trail), 18.4' northwest of the end of the curb of the eastbound lanes of U.S. Route 60 (Pocahontas Trail), 4.2' southwest of the end of the curb of the westbound lanes of U.S. Route 60 (Pocahontas Trail), and 9.3' southwest of the last reflector sign.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 328 – REFERENCE MARK NO. 2." The disk is located 28.6' north of the center line of the pavement of the westbound lanes of U.S. Route 60 (Pocahontas Trail), 16.9' northeast of a reflector sign, and 50.1' southwest of a utility pole.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 328 – REFERENCE MARK NO. 3 AZ." The disk is located 21.7' north of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Pocahontas Trail), 40.8' south of the center line of the pavement of the westbound lanes of U.S. Route 60 (Pocahontas Trail), 38.7' west of the center line of the pavement of a median crossover, and 25.6' east of a "No Left Turn" sign.

STATION NAME: 328
Latitude (dms) 37 14 14.42959
Longitude (dms) 76 38 15.03758
State Plane Zone (4502) Virginia South
Scale 0.999947968
Convergence (dms) 1 07 49.408
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODENTIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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</thead>
<tbody>
<tr>
<td>329</td>
<td>3662977.216</td>
<td>1103455.258</td>
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<tr>
<td>U.S. Survey Ft.</td>
<td>12017617.750</td>
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<td>Int'l Ft.</td>
<td>12017641.785</td>
<td>3620260.034</td>
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<thead>
<tr>
<th>OBJECT</th>
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<tr>
<td>RM1</td>
<td>S41°55′18″E</td>
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<td>RM2</td>
<td>S51°28′06″W</td>
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<tr>
<td>RM3 AZ.</td>
<td>S59°54′33″W</td>
<td>2077.98</td>
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LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1″=2000')

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 118.14
Elevation of Azimuth Mark in Feet = 81.75

COUNTY / CITY
JAMES CITY COUNTY
DISTRICT
ROBERTS

STATION NUMBER
329

FIELD BOOKS
P.S. 363, P. 9–10
STATION DESCRIPTION

STATION NO. 329:
A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 329." The disk is located north of the eastbound lanes of State Route 199 (South By-Pass), west of a bridge over U.S. Route 60 (Pocahontas Trail), 4.3' northwest of a metal guardrail, 9.3' southwest of an angle point in a concrete wall, 23.7' southeast of a metal guardrail on the south side of the westbound lanes of State Route 199 (South By-Pass).

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 329 – REFERENCE MARK NO. 1." The disk is located on the south side of the eastbound lanes of State Route 199 (South By-Pass), 2.5' southeast of a metal guardrail, 2.9' southwest of a concrete guardrail on the bridge over U.S. Route 60 (Pocahontas Trail).

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 329 – REFERENCE MARK NO. 2." The disk is located 3' northwest of a metal guardrail on the north side of the eastbound lanes of State Route 199 (South By-Pass), 23' southeast of a metal guardrail on the south side of the westbound lanes of State Route 199 (South By-Pass), and 79.0' from an angle point in a concrete wall.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 329 – REFERENCE MARK NO. 3 AZ." The disk is located 22' northwest of the center line of the pavement of the eastbound lanes of State Route 199 (South By-Pass), 4.8' southeast of a 30" concrete swale in the median, and 33.8' west of a drop inlet.

STATION NAME: 329
Latitude (dms) 37 15 04.63086
Longitude (dms) 76 39 45.93594
State Plane Zone (4502) Virginia South
Scale 0.999947448
Convergence (dms) 1 06 54.239
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETCIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTTHING (Y)</th>
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</thead>
<tbody>
<tr>
<td>330</td>
<td>Meters</td>
<td>3663692.388</td>
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<td></td>
<td>U.S. Survey Ft.</td>
<td>12019964.111</td>
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<td>12019881.511</td>
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<tr>
<th>STA. AZIMUTH MARK</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTTHING (Y)</th>
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REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
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<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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</thead>
<tbody>
<tr>
<td>RM1</td>
<td>N54°38'03&quot;W</td>
<td>53.67</td>
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<td>RM2</td>
<td>N26°19'05&quot;E</td>
<td>93.45</td>
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<tr>
<td>RM3 AZ.</td>
<td>S78°20'44&quot;E</td>
<td>1248.68</td>
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LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1"=2000')

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 95.65
Elevation of Azimuth Mark in Feet = 93.35

COUNTY / CITY
JAMES CITY COUNTY

DISTRICT
ROBERTS

STATION NUMBER
330

FIELD BOOKS
P.S. 363, P. 6-7
STATION DESCRIPTION

STATION NO. 330: A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 330." The disk is located 54.5' southwest of the center line of Warehams Pond Road, 0.1' mile east of John Wickham Road on top of a berm, and 201.5' southeast of a telephone pedestal.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 330 - REFERENCE MARK NO. 1." The disk is located 44.8' southwest of the center line of the pavement of Warehams Pond Road, and 147.8' southeast of a telephone pedestal.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 330 - REFERENCE MARK NO. 2." The disk is located 39.4' northeast of the center line of the pavement of Warehams Pond Road, 158.5' east of the center line of an asphalt entrance to a boat storage area, 19.3' southeast of an 8" holly, and 20.9' west of a 10" gum.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 330 - REFERENCE MARK NO. 3 AZ." The disk is located 41' northeast of the center line of the pavement of Warehams Pond Road on top of a berm, 154.3' northeast of a fire hydrant, and 121.3' east of a drop inlet.

STATION NAME: 330
Latitude (dms) 37 13 54.76826
Longitude (dms) 76 39 18.61668
State Plane Zone (4502) Virginia South
Scale 0.999948188
Convergence (dms) 1 07 10.820
# JAMES CITY COUNTY

## PRIMARY SERVICE AREA GEODETI C GROUND CONTROL NETWORK

### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<td>331</td>
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<td>3662454.867</td>
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### STA. AZIMUTH MARK

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<table>
<thead>
<tr>
<th>OBJECT</th>
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<th>DISTANCE (FEET)</th>
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<tbody>
<tr>
<td>RM1</td>
<td>N73°08‘46”W</td>
<td>95.21</td>
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<td>RM2</td>
<td>N09°38‘21”E</td>
<td>59.61</td>
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<tr>
<td>RM3 AZ.</td>
<td>S57°46‘26”E</td>
<td>1325.15</td>
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### LOCATION SKETCH (Not to Scale)

### LOCATION MAP (Scale: 1"=2000')
STATION DESCRIPTION

STATION NO. 331:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 331." The disk is located 26.5' southwest of the center line of the pavement of Mounts Bay Road, 47.3' northwest of a "Stop" sign at Randolphs Green, and 17.2' east of a wooden light pole.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 331 – REFERENCE MARK NO. 1." The disk is located 21.2' southwest of the center line of the pavement of Mounts Bay Road, 37.0' north of a storm drain manhole, and 51.7' west of a water valve.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 331 – REFERENCE MARK NO. 2." The disk is located 32.6' northeast of the center line of the pavement of Mounts Bay Road, 8.4' southeast of a water valve, 44' southwest of the southwest corner of a frame garage, and 11' northwest of a 12" sycamore.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 331 – REFERENCE MARK NO. 3 AZ." The disk is located 65.5' southwest of the center line of the southbound lanes of Mounts Bay Road, 46.2' northwest of the center line of Kingsmill Road, and 42.8' south of a wood sign for Kingsmill Resort and Conference Center.

STATION NO. 331:

| Latitude (dms) | 37 13 56.39791 |
| Longitude (dms) | 76 40 08.79259 |
| State Plane Zone (4502) Virginia South | |
| Scale | 0.999948170 |
| Convergence (dms) | 1 06 40.367 |
### JAMES CITY COUNTY
#### PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
#### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

**VIRGINIA STATE PLANE COORDINATES-SOUTH ZONE (NAD83)(1983)**

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
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<td>332</td>
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<td>12000733.221</td>
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**STA. AZIMUTH MARK**

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<tbody>
<tr>
<td>Meters</td>
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<td>Int'l Ft.</td>
<td>12002621.955</td>
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**REFERENCE AND AZIMUTH MARK LOCATIONS**

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
<td>N41°28'31&quot;W</td>
<td>118.21</td>
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<tr>
<td>RM2</td>
<td>N58°12'38&quot;E</td>
<td>51.36</td>
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<tr>
<td>RM3 AZ.</td>
<td>S52°35'42&quot;E</td>
<td>2377.67</td>
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**LOCATION SKETCH (Not to Scale)**

**LOCATION MAP (Scale: 1"=2000')**

**VERTICAL DATA**

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 71.71

**FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE**

Elevation of Azimuth Mark in Feet = 41.81

**COUNTY / CITY**

JAMES CITY COUNTY

**DISTRICT**

JAMESTOWN

**STATION NUMBER**

332

**FIELD BOOKS**

P.S. 363, P. 30–32
STATION DESCRIPTION

STATION NO. 332: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 332." The disk is located approximately 0.4 mile east of the intersection of State Route 617 (Lake Powell Road) and Marclay Road, 24.2' southwest of the center line of the pavement of Marclay Road, 5.7' west of a telephone pedestal, and 36.6' southwest of utility pole #QK78.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 332 – REFERENCE MARK NO. 1." The disk is located 15.5± northeast of the center line of the pavement of Marclay Road, and 3.3' southeast of utility pole #QK59.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 7" below the ground surface, stamped "STATION NO. 332 – REFERENCE MARK NO. 2." The disk is located 20.0± northeast of the center line of the pavement of Marclay Road, and 28± northeast of utility pole #QK78.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 332 – REFERENCE MARK NO. 3 AZ." The disk is located 62.7' east of the edge of the pavement, 121.6' southeast of the northeast corner of the metal hangar bay #10 & #11, 125' northeast of the southeast corner of metal hangar bay #10 & #11, and 75.2' south of the corner of the asphalt pavement.

STATION NAME: 332
Latitude (dms) 37 14 38.47004
Longitude (dms) 76 43 15.73045
State Plane Zone (4502) Virginia South
Scale 0.999947712
Convergence (dms) 1 04 46.910
# JAMES CITY COUNTY

## PRIMARY SERVICE AREA GEODETCIC GROUND CONTROL NETWORK

### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
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<tbody>
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<td>Int'l Ft.</td>
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### STA. AZIMUTH MARK

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<th>NORTHING (Y)</th>
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<tbody>
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<tr>
<td>Int'l Ft.</td>
<td>11997971.569</td>
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</table>

### VERTICAL DATA

- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 28.29

### FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE

- Elevation of Azimuth Mark in Feet = 24.86

### COUNTY / CITY

- JAMES CITY COUNTY

### DISTRICT

- JAMESTOWN

### STATION NUMBER

- **333**

### FIELD BOOKS

- P.S. 363, P. 32-34

---

### LOCATION MAP (Scale: 1"=2000)

- Location sketch (Not to Scale)
- Main Station 333
- 30' E 333
- 100' E 333
- 200' E 333

- Treasure Island Road
- State Route 617

- Location Location

- Station Location

- Map Scale: 1"=2000
STATION DESCRIPTION

STATION NO. 333:
A 3½" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 333." The disk is located approximately 0.6 mile south of State Route 618 (Lake Powell Road), 17.0' west of the center line of the pavement of State Route 617 (Treasure Island Road), 5.0' east of a 54" wooden fence, and 108.3' south of the corner of the 54" wooden fence.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 333 – REFERENCE MARK NO. 1." The disk is located 21.5' east of the center line of the pavement of State Route 617 (Treasure Island Road), 2.5' west of utility pole #LK15, and 58.3' southeast of the corner of a 54" wooden fence.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 333 – REFERENCE MARK NO. 2." The disk is located 25.9' east of the center line of the pavement of State Route 617 (Treasure Island Road), 2.6' west of a barbed wire fence, and 95.5' southwest of utility pole #LK15.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 333 – REFERENCE MARK NO. 3 AZ." The disk is located 15.7' east of the center line of the pavement of State Route 617 (Treasure Island Road), 3.0' west of a 54" wooden fence, and 36.8' northwest of utility pole #LI46.

STATION NAME: 333
Latitude (dms) 37° 13' 31.07661
Longitude (dms) 76° 43' 53.29560
State Plane Zone (4502) Virginia South
Scale 0.999948465
Convergence (dms) 1° 04' 24.111
# JAMES CITY COUNTY
## PRIMARY SERVICE AREA GEOETIC GROUND CONTROL NETWORK
### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
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<tr>
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<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<tbody>
<tr>
<td>334 RM3 AZ.</td>
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<tr>
<td></td>
<td>Int'l Ft.</td>
<td>11989154.175</td>
<td>3609503.053</td>
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### VERTICAL DATA
- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 9.76
- Elevation of Azimuth Mark in Feet = 14.59

### FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE

### COUNTY / CITY
- JAMES CITY COUNTY

### DISTRICT
- JAMESTOWN

### STATION NUMBER
- 334

### LOCATION MAP (Scale: 1"=2000')

### LOCATION SKETCH (Not to Scale)

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
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<td>RM2</td>
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<tr>
<td>RM3 AZ.</td>
<td>S35°51'58&quot;W</td>
<td>2787.94</td>
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### FIELD BOOKS
- P.S. 363, P. 26–28
STATION DESCRIPTION

STATION NO. 334:
A 3¼" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 334." The disk is located approximately 150' northeast of the entrance to Jamestown Marina, 0.1 mile west of State Route 1457 (Gate House Road), 13.9' northwest of the center line of the pavement of State Route 682 (Neck-O-Land Road), 54.6' southwest of the southwest corner of a one-story frame house, and 61.4' northwest of a 20" cedar.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 334 – REFERENCE MARK NO. 1." The disk is located 19.1' northwest of the center line of the pavement of State Route 682 (Neck-O-Land Road), 45.6' west of a telephone pedestal, and 59.9' southeast of the southeast corner of a one-story frame house.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 334 – REFERENCE MARK NO. 2." The disk is located 28.2' southeast of the center line of the pavement of State Route 682 (Neck-O-Land Road), 10.1' northwest of the corner of a 72" wooden fence, 90.1' west of utility pole #VA66, and 98' northeast of a telephone pedestal.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 334 – REFERENCE MARK NO. 3 AZ." The disk is located 11.5' southeast of the center line of the pavement of State Route 682 (Neck-O-Land Road), 21.5' west of a water meter, 35.1' northwest of utility pole #RK88 (Chesapeake & Potomac Telephone Company #78).

STATION NAME: 334
Latitude (dms) 37 13 45.66191
Longitude (dms) 76 45 19.97649
State Plane Zone (4502) Virginia South
Scale 0.999948293
Convergence (dms) 1 03 31.502
# JAMES CITY COUNTY
## PRIMARY SERVICE AREA GEODE蒂C GROUND CONTROL NETWORK
### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<tr>
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<th>STA. AZIMUTH MARK</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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### VERTICAL DATA
- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 43.62

### COUNTY / CITY
- JAMES CITY COUNTY
- DISTRICT JAMESTOWN

### FIELD BOOKS
- P.S. 363, P. 28–30

### LOCATION SKETCH (Not to Scale)

### LOCATION MAP (Scale: 1"=2000')

- SOUTH BY-PASS STATE ROUTE 199
- MAIN STATION 335
- 0.2 MILE TO STATE ROUTE 1201
- (KINGS POINT Access Rd.)
STATION DESCRIPTION

STATION NO. 335:
A 3½" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 335." The disk is located approximately 0.2 mile west of the Colonial Parkway in the median of State Route 199 (South By-Pass), 4.2' south of the curb of the westbound lanes of State Route 199 (South By-Pass), 7.5' north of the curb of the eastbound lanes of State Route 199 (South By-Pass), and 44.3' east of a "Keep Right" sign.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 335 – REFERENCE MARK NO. 1." The disk is located 21' north of the center line of the pavement of the westbound lanes of State Route 199 (South By-Pass), and 121.5' east of the end of a metal guardrail.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 335 – REFERENCE MARK NO. 2." The disk is located in the median of State Route 199 (South By-Pass), 5.1' south of the curb of the westbound lanes of State Route 199 (South By-Pass), 14.7' north of the curb of the eastbound lanes of State Route 199 (South By-Pass), 59.6' southwest of a metal reflector sign, and 60.3' northwest of another metal reflector sign.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 335 – REFERENCE MARK NO. 3 AZ." The disk is located in the median of State Route 199 (South By-Pass), 11.6' east of the back of the concrete median, 2.8' south of the curb of the westbound lanes of State Route 199 (South By-Pass), 3.1' north of the back of the curb of the eastbound lanes of State Route 199 (South By-Pass), and 61.6' east of a "Keep Right" sign.

STATION NAME: 335
Latitude (dms) 37 14 51.92585
Longitude (dms) 76 42 23.91602
State Plane Zone (4502) Virginia South
Scale 0.999947574
Convergence (dms) 1 05 18.357
STATION DESCRIPTION

STATION NO. 336:
A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 336." The disk is located approximately 14.6' southwest of the center line of the pavement of State Route 1125 (Sawmill Road), 10' northeast of a 36" wire fence, and 21.2' south of utility pole #CC96.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 336 – REFERENCE MARK NO. 1." The disk is located 20.3' southwest of the center line of the pavement of State Route 1125 (Sawmill Road), 4.5' northeast of a 36" wire fence, 3' south of a corner of the 36" wire fence, and 18.6' northeast of utility pole #CC96.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 336 – REFERENCE MARK NO. 2." The disk is located 28' southeast of the center line of the pavement of State Route 1125 (Sawmill Road), 63.3' southeast of a corner of a 36" wire fence, and 64' southwest of a 20' oak at the intersection of State Route 1125 (Sawmill Road) and State Route 613 (Brick Bat Road).

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 336 – REFERENCE MARK NO. 3 AZ." The disk is located 24' southeast of the center line of the pavement of State Route 1125 (Sawmill Road), 74.5' northeast of utility pole #92137, 3.9' northwest of a 48" wire fence, and 39.4' northwest of the south end of the 48" wire fence.

STATION NAME: 336
Latitude (dms) 37 16 06.03092
Longitude (dms) 76 49 21.58987
State Plane Zone (4502) Virginia South
Scale 0.999946891
Convergence (dms) 1 01 04.861
STATION DESCRIPTION

STATION NO. 337:

A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 337." The disk is located 0.4 mile west of Fifth Avenue, 4.6' north of the back of the curb on the north side of U.S. Route 60 (Pocahontas Trail), 52.2' southwest of Chesapeake & Potomac Telephone Company utility pole #14.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 337 – REFERENCE MARK NO. 1." The disk is located 3.2' north of the back of the curb on the north side of U.S. Route 60 (Pocahontas Trail), 8.3' east of a wooden "Welcome to Williamsburg" sign, and 21.1' south of the railroad tracks.

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 337 – REFERENCE MARK NO. 2." The disk is located 20.6' north of the railroad tracks, and 64.0' northwest of Chesapeake & Potomac Telephone Company utility pole #14.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 337 – REFERENCE MARK NO. 3 AZ." The disk is located on the south side of U.S. Route 60 (Pocahontas Trail), 10.6' north of the asphalt parking lot for Rocky's Gourmet Ice Cream Shop, 17.8' west of a fire hydrant, and 9.4' south of the north side of a 5' concrete walk.

STATION NAME: 337
Latitude (dms) 37 15 56.49090
Longitude (dms) 76 40 48.80957
State Plane Zone (4502) Virginia South
Scale 0.999946972
Convergence (dms) 1 06 16.080
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

Virginia State Plane Coordinates–South Zone (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<td>Meters</td>
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Sta. Azimuth Mark

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Reference and Azimuth Mark Locations

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<tr>
<td>RM1</td>
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<td>S46°25'53&quot;E</td>
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Location Sketch (Not to Scale)

LOCATION MAP (Scale: 1"=2000')

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 78.67
Elevation of Azimuth Mark in Feet = 78.61

County / City
James City County

District
Roberts

Station Number
338

Field Books
P.S. 363, P. 16–18 & 46

Note: The location number 23691 is not part of the main content and is likely a reference or additional data not fully transcribed or included in the main text.
STATION DESCRIPTION

STATION NO. 338: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 338." The disk is located approximately 0.8 mile west of Gate 13 of the U.S. Naval Weapons Station, 32.5' north of the center line of the pavement of State Route 143 (Merrimac Trail), 45.5' southeast of the center of a drop inlet, and 26.9' southwest of a 48" wire fence.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 338 – REFERENCE MARK NO. 1." The disk is located 52' north of the center line of the pavement of State Route 143 (Merrimac Trail), 7.5' south of a 48" wire fence, and 15.3' northwest of the center of a drop inlet.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 338 – REFERENCE MARK NO. 2." The disk is located 45.2' north of the center line of the pavement of State Route 143 (Merrimac Trail), 14.2' southwest of a 48" wire fence, and 70.4' east of the center of a drop inlet.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 338 – REFERENCE MARK NO. 3 AZ." The disk is located approximately 420' east of the point of curve of State Route 143 (Merrimac Trail), 27.5' south of the center line of the pavement of State Route 143 (Merrimac Trail), 1.6' southwest of a metal guardrail, 167±' east of a point opposite a railroad switch, and 38.5' west of a point opposite a railroad signal light.

STATION NAME: 338
Latitude (dms) 37 13 55.10362
Longitude (dms) 76 37 30.64993
State Plane Zone (4502) Virginia South
Scale 0.999948184
Convergence (dms) 1 08 16.348
# JAMES CITY COUNTY

## PRIMARY SERVICE AREA GEOETIC GROUND CONTROL NETWORK

### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
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<th>UNITS</th>
<th>EASTING (X)</th>
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### STA. AZIMUTH MARK

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### REFERENCE AND AZIMUTH MARK LOCATIONS

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<tr>
<td>RM1</td>
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<td>RM2</td>
<td>N76°56'18&quot;W</td>
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<td>RM3 AZ</td>
<td>S85°45'20&quot;E</td>
<td>4354.00</td>
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### LOCATION MAP (Scale: 1"=2000')

- MAIN STATION 339
- MERRIMAC TRAIL
- STATE ROUTE 113

### VERTICAL DATA

- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 60.23

- Elev. of Azimuth Mark in Feet = 68.62

### COUNTY / CITY

- JAMES CITY COUNTY

### DISTRICT

- ROBERTS

### STATION NUMBER

- 339

### FIELD BOOKS

- P.S. 363, P. 14–16
STATION DESCRIPTION

STATION NO. 339: A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 339." The disk is located approximately 0.6 mile west of Interstate 64, 56.4' south of the center line of the pavement of State Route 143 (Merrimac Trail), and 15.7' northwest of utility pole #OD69.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 339 – REFERENCE MARK NO. 1." The disk is located 27.8' west of utility pole #OD69, 23.8' north of the railroad tracks, and 34.8' north of a railroad switch.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 339 – REFERENCE MARK NO. 2." The disk is located 64.2' south of the center line of the pavement of State Route 143 (Merrimac Trail), 3.8' east of utility pole #OD39, and 29.2' north of the railroad tracks.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 339 – REFERENCE MARK NO. 3 AZ." The disk is located 36.6' north of the center line of the pavement of State Route 143 (Merrimac Trail), 79.9' west of a Newport News Water Transmission Main concrete monument with disk (Sta. 1119+63), 61.8' southwest of the southeast corner of an 84" chainlink fence around a Vepco substation, 64.7' southeast of the southwest corner of the 84" chainlink fence around the Vepco substation.

| STATION NAME: | 339 |
| Latitude (dms) | 37 12 49.84678 |
| Longitude (dms) | 76 35 57.65676 |
| State Plane Zone (4502) Virginia South | |
| Scale | 0.999948978 |
| Convergence (dms) | 1 09 12.788 |
# JAMES CITY COUNTY
## PRIMARY SERVICE AREA GEODETTIC GROUND CONTROL NETWORK
### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
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<th>STA. AZIMUTH MARK</th>
<th>UNITS</th>
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### VERTICAL DATA
- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 123.20
- Elevation of Azimuth Mark in Feet = 109.02

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<tr>
<th>COUNTY / CITY</th>
<th>DISTRICT</th>
<th>FIELD BOOKS</th>
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<tbody>
<tr>
<td>JAMES CITY COUNTY</td>
<td>STONEHOUSE</td>
<td>P.S. 365, P. 19–21</td>
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### REFERENCE AND AZIMUTH MARK LOCATIONS
<table>
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<tr>
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<tr>
<td>RM1</td>
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<td>56.95</td>
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<td>RM2</td>
<td>S58°58'53&quot;W</td>
<td>50.45</td>
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<tr>
<td>RM3 AZ.</td>
<td>N33°06'24&quot;W</td>
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### LOCATION SKETCH (Not to Scale)

### LOCATION MAP (Scale: 1"=4000)

- **EFIELD**
- **Richardson Millpond**
- **Bird Swamp**
- **STATION LOCATION**
  - **STATE ROUTE 20**
  - **OVERPASS ROAD**
  - **MAIN STATION 340**
  - **NORTHBOUND**
  - **SOUTHBOUND**
  - **DO NOT ENTER SIGN**
  - **NO TURNS LEFT SIGN**
  - **METAL GUARD RAIL**
  - **DO NOT ENTER SIGN**
  - **ONE WAY SIGN**
  - **DO NOT ENTER SIGN**
  - **RM 3 AZ**
  - **FRM 3 AZ**

- **Upper County Park**
- **TEMPLE HALL ESTATES**
- **BURNHAM WOODS**
- **ANDERSONS CORNER**
- **EXIT 53**

- **ANDERSONS CORNER**
- **TEMPLE HALL ESTATES**
- **BURNHAM WOODS**
- **ANDERSONS CORNER**
- **EXIT 53**
STATION DESCRIPTION

STATION NO. 340: A 3¾" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 340." The disk is located 22.4' east of the center line of the pavement of the northbound lanes of State Route 30 (Old Stage Road), and 1.6' south of the end of a metal guardrail.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 340 – REFERENCE MARK NO. 1." The disk is located 5.8' east of a metal guardrail on the east side of the northbound lanes of State Route 30 (Old Stage Road), and 35.0' southeast of a "Do Not Enter" sign.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 340 – REFERENCE MARK NO. 2." The disk is located in the median 28' west of the center line of the pavement of the northbound lanes of State Route 30 (Old Stage Road), 90.6' south of a "No Left Turn" sign, and 56' east of the center line of the pavement of the eastbound lanes of State Route 30 (Old Stage Road).

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 340 – REFERENCE MARK NO. 3 AZ." The disk is located at the intersection of State Route 30 (Old Stage Road) and Overpass Road, 9.0' north of the north edge of the pavement of a median crossing of State Route 30 (Old Stage Road), 22.2 southeast of a "Do Not Enter" sign, and 17.9' southwest of a "One Way" sign.

STATION NAME: 340
Latitude (dms) 37 25 09.63895
Longitude (dms) 76 49 21.01123
State Plane Zone (4502) Virginia South
Scale 0.999945809
Convergence (dms) 1 01 05.212
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEOETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1983)

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STA. AZIMUTH MARK

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REFERENCE AND AZIMUTH MARK LOCATIONS

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<td>RM1</td>
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<td>RM2</td>
<td>S33°42'18&quot;W</td>
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<tr>
<td>RM3 AZ</td>
<td>N56°21'30&quot;E</td>
<td>1437.85</td>
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LOCATION MAP (Scale: 1"=4000')

STATION LOCATION

LOCATION MARK (Scale: 1"=4000')

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 107.08
Elevation of Azimuth Mark in Feet = 100.06

COUNTY / CITY
JAMES CITY COUNTY
POWHATAN

DISTRICT

STATION NUMBER

FIELD BOOKS
P.S. 365, P. 5–7
STATION DESCRIPTION

STATION NO. 341: A 3¾" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 341." The disk is located approximately 280±' southwest of State Route 1615 (Telemark Drive), 17.3' northwest of the center line of the pavement of State Route 1610 (Nina Lane), 23.2' northeast of the center line of the driveway to residence #152, 56.0' southeast of the southeast corner of a one-story brick residence #152, and 53.6' south of the southwest corner of a one-story brick residence #150.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 341 – REFERENCE MARK NO. 1." The disk is located 18.7' southeast of the center line of the pavement of State Route 1610 (Nina Lane), 19.5' southwest of the center line of the driveway to residence #149, 58.8' northeast of the northeast corner of a two-story brick residence #151, and 47.0' northwest of the northwest corner of a one-story frame residence #149.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 341 – REFERENCE MARK NO. 2." The disk is located 17.6' southeast of the center line of the pavement of State Route 1610 (Nina Lane), 14.7' northeast of the center line of the driveway to residence #153, 56.3' northeast of the northeast corner of a one-story brick residence #153, 60.2' northwest of the northwest corner of a two-story brick residence #151.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 5" below the ground surface, stamped "STATION NO. 341 – REFERENCE MARK NO. 3 AZ." The disk is located 71.4' north of the east end of a 24" concrete pipe, 110.6' southeast of the southeast corner of a one-story brick residence #118, and 96.5' south of the southeast corner of a one-story masonry building.

STATION NAME: 341
Latitude (dms) 37 21 39.88392
Longitude (dms) 76 46 23.02719
State Plane Zone (4502) Virginia South
Scale 0.999945408
Convergence (dms) 1 02 53.235
# JAMES CITY COUNTY

## PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK

### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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<tbody>
<tr>
<td>342</td>
<td>Meters</td>
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### STA. AZIMUTH MARK

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### REFERENCE AND AZIMUTH MARK LOCATIONS

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<td>RM2</td>
<td>S35°19'32&quot;E</td>
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<td>RM3 AZ.</td>
<td>N52°00'36&quot;W</td>
<td>1777.63</td>
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### VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station in Feet = 88.86

Elevation of Azimuth Mark in Feet = 102.79

### COUNTY / CITY

JAMES CITY COUNTY

### DISTRICT

POWHATAN

### STATION NUMBER

342

### FIELD BOOKS

P.S. 363, P. 78-79

## LOCATION MAP (Scale: 1"=4000')
STATION DESCRIPTION

STATION NO. 342:

A 3½" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 342." The disk is located approximately 81.3' north of the northeast corner of a Vepco tower, 200.7' east of a Newport News Water Transmission Main concrete monument (Sta. 110+65), 46.0' west of utility pole #58/88, and 38.8' northwest of a guy wire from utility pole #58/88.

REFERENCE MARK NO. 1:

A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 342 – REFERENCE MARK NO. 1." The disk is located 2.0' west of the utility pole #209/362, and 33.8' south of a Newport News Water Transmission Main concrete monument (Sta. 365+86).

REFERENCE MARK NO. 2:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 342 – REFERENCE MARK NO. 2." The disk is located 9.6' northwest of the northeast corner of a Vepco tower, 30.0' north of the northwest corner of the tower, and 54.4' southwest of utility pole #58/88.

REFERENCE MARK NO. 3 AZ.:

A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 342 – REFERENCE MARK NO. 3 AZ." The disk is located 136.5' east of the southwest corner of a Vepco tower #285/327, 53.7' northeast of a Newport News Water Transmission Main concrete monument (Sta. 94+40), and 42.5' southwest of utility pole #58/85.

STATION NAME: 342
Latitude (dms) 37 20 35.47940
Longitude (dms) 76 46 28.66951
State Plane Zone (4502) Virginia South
Scale 0.999945491
Convergence (dms) 1 02 49.810
# JAMES CITY COUNTY
## PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

### VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
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<td>Meters</td>
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### STA. AZIMUTH MARK

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<tr>
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<td>Int'l Ft.</td>
<td>11993748.636</td>
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### VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 95.82
Elevation of Azimuth Mark in Feet = 82.00

### COUNTY / CITY

JAMES CITY COUNTY

### DISTRICT

BERKELEY

### REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
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<tr>
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<td>42.95</td>
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<td>RM2</td>
<td>S12°19'28&quot;E</td>
<td>38.22</td>
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<tr>
<td>RM3 AZ.</td>
<td>S84°38'55&quot;W</td>
<td>1611.79</td>
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### LOCATION MAP (Scale: 1"=2000')

- **STATION LOCATION**
- **EASTERN STATE**
- **LONGHILL WOODS**
- **Kevanis Municipal Park**
- **James Blair Int**
- **State Highway Administration**
- **CARRIAGE ROAD**
- **BLDG = 360**
- **MINSON RD.**
- **MAIN STATION 343**
- **BLOC 2 SIGN**
- **STOP SIGN**
- **STATE RD.**
- **RUSH ST.**
- **BEACH ST.**
- **FORD ST.**
- **FRED ST.**
- **FOCUS ST.**
- **EXPERIENCE ST.**
- **MAIN ST.**
- **WESSTIC ST.**
- **CHISEL RUN**
- **Church of the Nazarene**

### LOCATION SKETCH (Not to Scale)
STATION DESCRIPTION

STATION NO. 343: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 343." The disk is located at the intersection of Schmidt Road and Minson Road on the grounds of Eastern State Hospital, 26' west of the center line of the pavement of Schmidt Road, 13.4' northwest of a fire hydrant, and 77.9' southwest of a light pole.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 343 – REFERENCE MARK NO. 1." The disk is located 17' east of the center line of the pavement of Schmidt Road, 18.1' northwest of a storm drain manhole, 4.3' west of the west side of a 6' concrete walk, and 56.2' northwest of a "Stop" sign.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 343 – REFERENCE MARK NO. 2." The disk is located 8.2' north of a building sign, 4.8' northwest of a light pole, and 28.9' southwest of a fire hydrant.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 343 – REFERENCE MARK NO. 3 AZ." The disk is located 15.3' west of the center line of the pavement of Minson Road, 13.1' northwest of a fire hydrant, 39.1' south of the edge of a 7' concrete walk, and 71.5' southeast of the southeast corner of building #36.

STATION NAME: 343
Latitude (dms) 37 17 23.81337
Longitude (dms) 76 44 18.41817
State Plane Zone (4502) Virginia South Scale 0.999946313
Convergence (dms) 1 04 08.863
STATION DESCRIPTION

STATION NO. 344: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 344." The disk is located approximately 0.15 mile west of concrete post #K-33, 40.5' north of the center line of the pavement of the Colonial Parkway, 43±' southeast of a split 12" gum tree and 15" oak tree.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 344 - REFERENCE MARK NO. 1." The disk is located 46.7' south of the center line of the pavement of the Colonial Parkway, 42.5±' north of a 30" cedar tree, and 75±' northeast of another 30" cedar tree.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 344 - REFERENCE MARK NO. 2." The disk is located 42.1' north of the center line of the pavement of the Colonial Parkway, and 47.6' southwest of a split 12" gum tree and 15" oak tree.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 344 - REFERENCE MARK NO. 3 AZ." The disk is located 36.2' south of the center line of the pavement of the Colonial Parkway, 102.2' west of the southwest corner of the Neck-Of-Land Overlook area parking lot, and 45.5±' southeast of the approximate beginning of the curve entering into the Neck-Of-Land Overlook area.

STATION NAME: 344
Latitude (dms) 37 13 11.83170
Longitude (dms) 76 45 56.71559
State Plane Zone (4502) Virginia South
Scale 0.999948700
Convergence (dms) 1 03 09.204
STATION DESCRIPTION

STATION NO. 345: A 3¼" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 345." The disk is located approximately 0.4' mile from concrete post #K-30, 35.6' south of the center line of the pavement of the Colonial Parkway, and 152.4' west of "Glebe Gut" sign.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 345 – REFERENCE MARK NO. 1." The disk is located 36.9' south of the center line of the pavement of the Colonial Parkway, and 213.5' west of a "Glebe Gut" sign.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 345 – REFERENCE MARK NO. 2." The disk is located 28.1' north of the center line of the pavement of the Colonial Parkway, and 218.6' northwest of "Glebe Gut" sign.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 345 – REFERENCE MARK NO. 3 AZ." The disk is located approximately 220' west of a gravel entrance to the National Memorial Park, 32.6' south of the center line of the pavement of the Colonial Parkway, and 91.3' southeast of concrete post #K-30.

STATION NAME: 345
Latitude (dms) 37 12 49.38891
Longitude (dms) 76 44 19.07485
State Plane Zone (4502) Virginia South
Scale 0.999948984
Convergence (dms) 1 04 08.465
STATION DESCRIPTION

STATION NO. 346:
A 3¾" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 346." The disk is located approximately 1.6 mile south of State Route 199 (South By-Pass) on the Colonial Parkway, 33' southeast of the center line of the pavement of the Colonial Parkway, and 31' south of a "45 MPH" sign.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 346 – REFERENCE MARK NO. 1." The disk is located 854' southeast of the center line of the pavement of the Colonial Parkway, 31.6' north of a wooden sign at the James River Overlook, and 59.1' northeast of the end of the curb of the James River Overlook.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 346 – REFERENCE MARK NO. 2." The disk is located 38.6' northwest of the center line of the pavement of the Colonial Parkway, and 78.4' southwest of concrete marker post #K27.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 346 – REFERENCE MARK NO. 3 AZ." The disk is located 39.3' southeast of the center line of the pavement of the Colonial Parkway, 91.1' southeast of "College Creek" sign, 2.8' southeast of a wooden guardrail, and 12.6' northeast of the end of the wooden guardrail.

STATION NAME: 346
Latitude (dms) 37 13 12.43202
Longitude (dms) 76 41 54.79121
State Plane Zone (4502) Virginia South
Scale 0.999948692
Convergence (dms) 1 05 36.034
# JAMES CITY COUNTY

## PRIMARY SERVICE AREA GEODETIc GROUND CONTROL NETWORK

### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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### STA. AZIMUTH MARK

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### REFERENCE AND AZIMUTH MARK LOCATIONS

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### LOCATION SKETCH (Not to Scale)

- Bridge
- State Route 199
- West Bound
- East Bound

### LOCATION MAP (Scale: 1"=2000')

- Station Location
- James City Center Golf Complex
- Riverlake
- Golden Horseshoe GC

---

**VERTICAL DATA**

Elevations refer to National Geodetic Vertical Datum (1929)
Elevation of Station in Feet = 35.04

**FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE**

Elevation of Azimuth Mark in Feet = 87.53

**COUNTY / CITY**

JAMES CITY COUNTY

**DISTRICT**

JAMESTOWN

**STATION NUMBER**

347

**FIELD BOOKS**

P.S. 363, P. 11-12
STATION DESCRIPTION

STATION NO. 347:
A 3½" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 347." The disk is located approximately 33.4' northeast of the center line of the pavement of State Route 199 (South By-Pass), 29.1' southwest of a 72" chainlink fence, and 190.1' southeast of the west end of the 72" chainlink fence.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 347 - REFERENCE MARK NO. 1." The disk is located 49.9' northeast of the center line of the pavement of State Route 199 (South By-Pass), 12' southwest of a 72" chainlink fence, and 178.5' southeast of the west end of the 72" chainlink fence.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 347 - REFERENCE MARK NO. 2." The disk is located 29.9' northeast of the center line of the pavement of State Route 199 (South By-Pass), 34' southwest of the east end of a 72" chainlink fence, and 1.9' northeast of the end of a metal guardrail.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 347 - REFERENCE MARK NO. 3 AZ." The disk is in the median of State Route 199 (South By-Pass) west of Carters Grove Country Road, 6.7' west of the point where a metal guardrail meets the bridge over Carters Grove Country Road, 2' southwest of the guardrail, and 12' northeast of a 3' concrete swale.

STATION NAME: 347
Latitude (dms)  37 14 51.45543
Longitude (dms)  76 41 26.17627
State Plane Zone (4502) Virginia South
Scale 0.999947579
Convergence (dms) 1 05 53.401
# JAMES CITY COUNTY
## PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
### JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

<table>
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<th>UNITS</th>
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### VERTICAL DATA
- Elevations refer to National Geodetic Vertical Datum (1929)
- Elevation of Station in Feet = 13.79

### FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE
- Elevation of Azimuth Mark in Feet = 11.79

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<thead>
<tr>
<th>COUNTY / CITY</th>
<th>DISTRICT</th>
</tr>
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<tbody>
<tr>
<td>JAMES CITY COUNTY</td>
<td>POWHATAN</td>
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### REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
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<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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<tbody>
<tr>
<td>RM1</td>
<td>S66°47'43&quot;E</td>
<td>98.21</td>
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<td>RM2</td>
<td>S30°03'13&quot;W</td>
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<td>N88°36'57&quot;W</td>
<td>1499.68</td>
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### LOCATION SKETCH (Not to Scale)

### LOCATION MAP (Scale: 1"=2000')
STATION DESCRIPTION

STATION NO. 348: A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 348." The disk is located 1.5 miles east of State Route 613 (Brick Bat Road), 0.3 miles west of the Chickahominy River, 35.0' northeast of the center line of the pavement of State Route 5 (John Tyler Highway), 14' southwest of a 42" wooden split rail fence, 143.5' southeast of utility pole #EJ49, and 102.0' northwest of a reflector sign.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 8" below the ground surface, stamped "STATION NO. 348 – REFERENCE MARK NO. 1." The disk is located 43.2' northeast of the center line of the pavement of State Route 5 (John Tyler Highway), 5.2' southwest of a 42" wooden split rail fence, and 205.5' northwest of utility pole #F28.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 6" below the ground surface, stamped "STATION NO. 348 – REFERENCE MARK NO. 2." The disk is located 26.6' southwest of the center line of the pavement of State Route 5 (John Tyler Highway), 79.8' southeast of a telephone pedestal, and 105.5' west of a metal reflector sign.

BARRETTS 1934 (1990): A 2" disk in concrete, set approximately 1" above the ground surface, stamped "BARRETTS 1934." The disk is located on the south side of State Route 5 (John Tyler Highway), 8.7' south of a 60" wire fence, 63' south of utility pole #7248, 34.0' east of the northeast corner of a two-story frame residence #1379.

STATION NAME: 348
Latitude (dms) 37 15 50.55561
Longitude (dms) 76 52 03.07298
State Plane Zone (4502) Virginia South Scale 0.999947023
Convergence (dms) 0 59 26.853
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

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<td>349</td>
<td>Meters</td>
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STA. AZIMUTH MARK

<table>
<thead>
<tr>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTING (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meters</td>
<td>3648730.940</td>
<td>1120022.639</td>
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</table>

| U.S. Survey Ft. | 11970878.091 | 3674607.609 |
| Int'l Ft.     | 11970902.033 | 3674614.959 |

REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
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</thead>
<tbody>
<tr>
<td>RM1</td>
<td>S02°47'12&quot;W</td>
<td>47.01</td>
</tr>
<tr>
<td>RM2</td>
<td>N72°13'32&quot;W</td>
<td>54.48</td>
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<tr>
<td>RM3 AZ.</td>
<td>S85°49'32&quot;E</td>
<td>4153.50</td>
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</table>

LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1"=2000')
STATION DESCRIPTION

STATION NO. 349: A 3¾" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 349." The disk is located approximately 0.4 mile west of State Route 1030, 20.0' north of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 22.8' south of a 48" split rail fence, and 65.4' southwest of the east end of the 48" split rail fence.

REFERENCE MARK NO. 1: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 349 – REFERENCE MARK NO. 1." The disk is located in the median, 27.0' south of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 41.5' north of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 90.5' northeast of a reflector sign.

REFERENCE MARK NO. 2: A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 349 – REFERENCE MARK NO. 2." The disk is located 33.4' north of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 9.3' southeast of utility pole #WF48 (Chesapeake & Potomac Telephone Company #33), and 21.8' east of a telephone pedestal.

REFERENCE MARK NO. 3 AZ.: A 2" disk in concrete, set approximately 4" below the ground surface, stamped "STATION NO. 349 – REFERENCE MARK NO. 3 AZ." The disk is located in the median 16.7' south of the center line of the pavement of the westbound lanes of U.S. Route 60 (Richmond Road), 50.7' north of the center line of the pavement of the eastbound lanes of U.S. Route 60 (Richmond Road), 255.4' northeast of a reflector sign, and 71.4' northwest of the end of a metal guard rail.

STATION NAME: 349  
Latitude (dms)  37 24 14.28904  
Longitude (dms)  76 50 03.26435  
State Plane Zone (4502) Virginia South  
Scale  0.999945603  
Convergence (dms)  1 00 39.567
JAMES CITY COUNTY
PRIMARY SERVICE AREA GEODETIC GROUND CONTROL NETWORK
JULY 1990 SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD83)(1986)

<table>
<thead>
<tr>
<th>STATION NO.</th>
<th>UNITS</th>
<th>EASTING (X)</th>
<th>NORTHING (Y)</th>
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</thead>
<tbody>
<tr>
<td>350</td>
<td></td>
<td>3668252.826</td>
<td>1098499.951</td>
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<tr>
<td></td>
<td>Meters</td>
<td>12034926.148</td>
<td>3603995.257</td>
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<td></td>
<td>Int'l Ft.</td>
<td>12034982.18</td>
<td>3604002.465</td>
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STA. AZIMUTH MARK

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Meters</td>
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<td>1098757.084</td>
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<tr>
<td>U.S. Survey Ft.</td>
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<td>3604838.867</td>
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<tr>
<td>Int'l Ft.</td>
<td>12036246.015</td>
<td>3604846.077</td>
</tr>
</tbody>
</table>

REFERENCE AND AZIMUTH MARK LOCATIONS

<table>
<thead>
<tr>
<th>OBJECT</th>
<th>BEARING</th>
<th>DISTANCE (FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM1</td>
<td>N74°45'02&quot;W</td>
<td>31.36</td>
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<tr>
<td>RM2</td>
<td>N00°06'45&quot;E</td>
<td>101.25</td>
</tr>
<tr>
<td>RM3 AZ.</td>
<td>N56°56'04&quot;E</td>
<td>1546.21</td>
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</tbody>
</table>

LOCATION SKETCH (Not to Scale)

LOCATION MAP (Scale: 1"=2000')

STATION LOCATION 23185
STATION DESCRIPTION

STATION NO. 350:
A 3¼" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 350." The disk is located on the east side of Blow Flats Road, approximately 0.1 mile south of U.S. Route 60 (Pocahontas Trail), 15' east of the center line of the pavement of Blow Flats Road, 113.2' northeast of utility pole #208–34, and 57.9' southeast of the center of a sanitary manhole in Blow Flats Road.

REFERENCE MARK NO. 1:
A 2" disk in concrete, set approximately 2" below the ground surface, stamped "STATION NO. 350 – REFERENCE MARK NO. 1." The disk is located on the west side of Blow Flats Road, 16.3' west of the center line of the pavement of Blow Flats Road, 150.1' northeast of power pole #LN70/208–12, and 54.8' west of the center of a sanitary manhole in Blow Flats Road.

REFERENCE MARK NO. 2:
A 2" disk in concrete, set approximately 3" below the ground surface, stamped "STATION NO. 350 – REFERENCE MARK NO. 2." The disk is located on the east side of Blow Flats Road, 17' east of the center line of the pavement of Blow Flats Road, 44.1' northeast of the center of a sanitary manhole in Blow Flats Road, and 285.3' south of a "Stop Ahead" sign.

REFERENCE MARK NO. 3 AZ.:
A 2" disk in concrete, set approximately 1" below the ground surface, stamped "STATION NO. 350 – REFERENCE MARK NO. 3 AZ." The disk is located 23' northeast of the center line of the pavement of U.S. Route 60 (Pocahontas Trail), 121.8' southeast of a telephone pedestal, and 109.5' northwest of utility pole #208–7.

STATION NAME: 350
Latitude (dms)  37  12  20.53187
Longitude (dms)  76  36  15.93127
State Plane Zone (4502) Virginia South
Scale 0.999949368
Convergence (dms)  1  09  01.696