Survey Control

Reference and Recovery Data

George Mason University

Prince William Campus
Manassas, Virginia

Prepared For:

George Mason University
10900 University Blvd.
Manassas, Virginia 20110

Prepared By:

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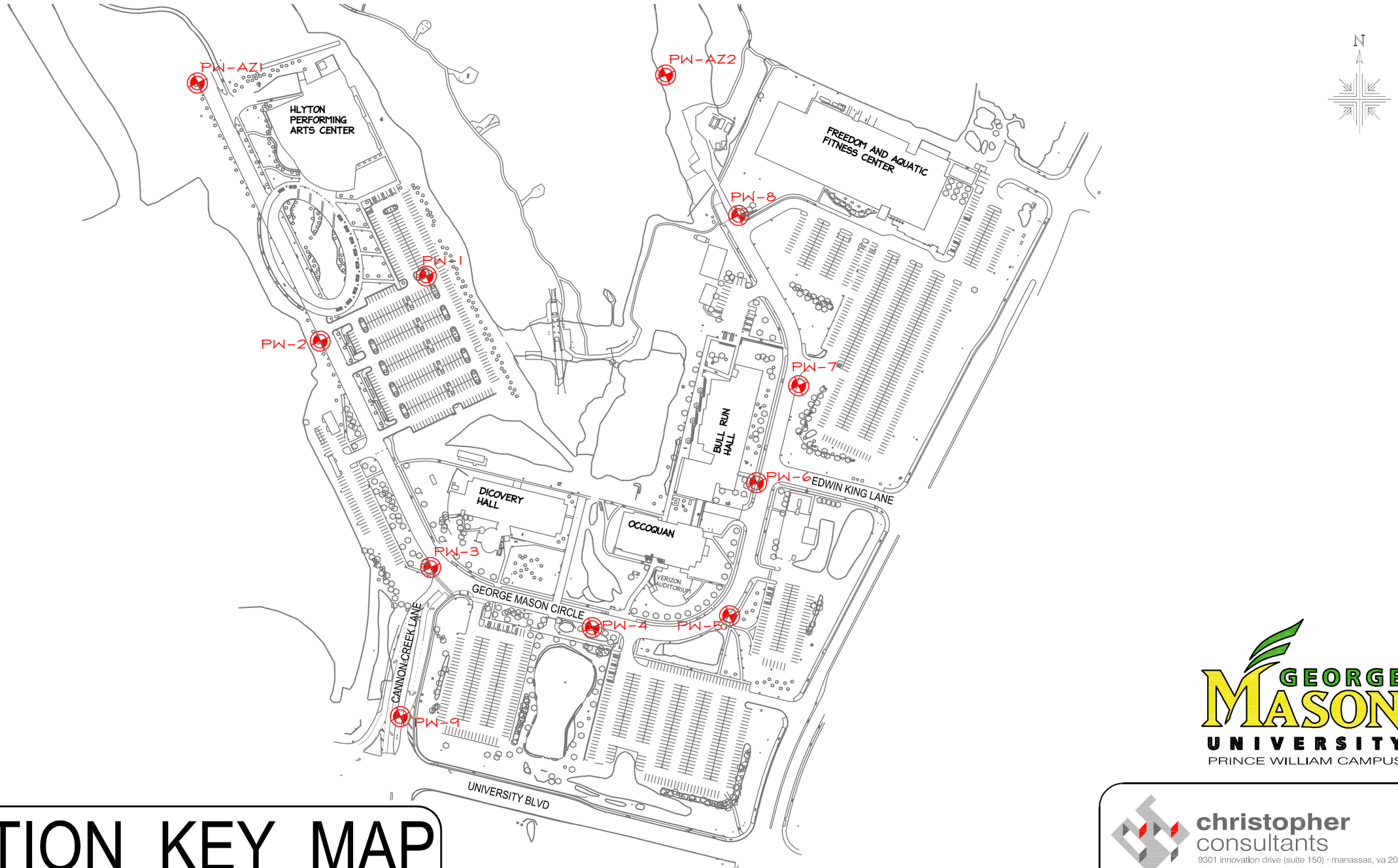
engineering surveying land planning
9301 innovation drive
manassas, virginia 20110

May 2013
Revised July 2018
ccl Project No. 83026.060.00

GEORGE MASON UNIVERSITY

GEODETIC SURVEY CONTROL



STATION KEY MAP

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

christopher consultants
9301 innovation drive (suite 150) · manassas, va 20110
phone 703.393.9887 · fax 703.273.6820

GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,960,719.72	11,761,390.58
LATITUDE:	LONGITUDE:
38°45'30.19524" N	77°31'24.30481" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,960,733.78	11,761,414.07

CONVERGENCE ( ): 00°36'34.21"
COMBINED FACTOR: 0.999945104
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

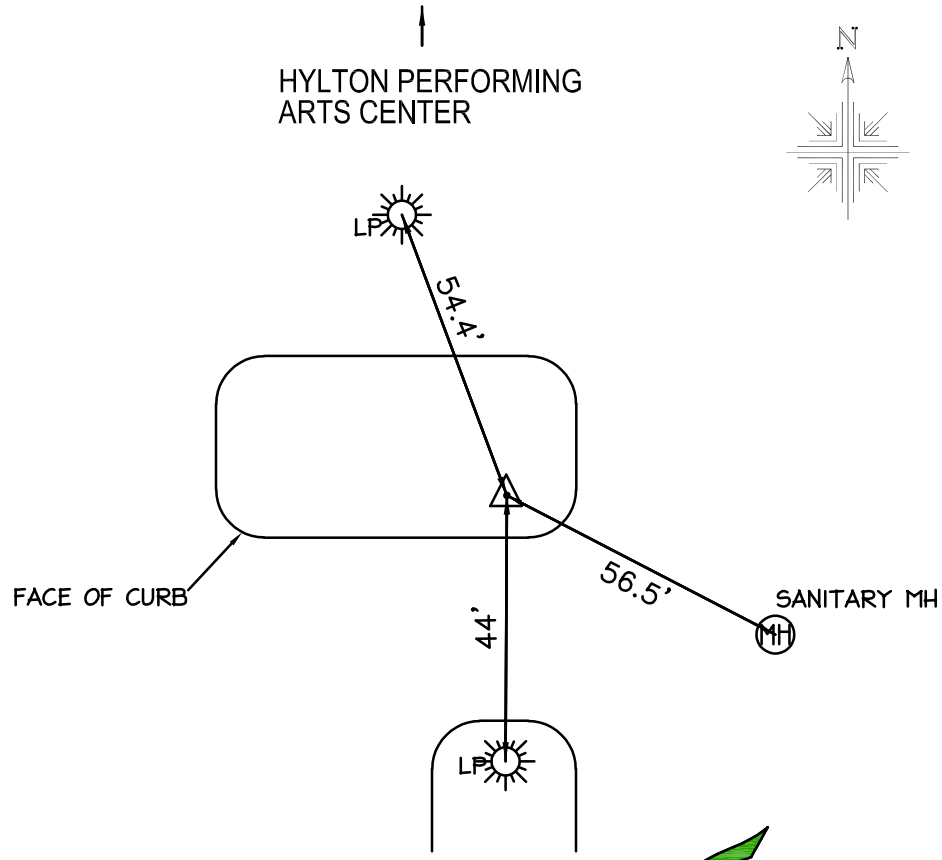
VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 236.39

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
4" x 4" x 2' CONCRETE MONUMENT WITH 2" STAMPED ALUMINUM CAP
DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-01

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED
BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,960,555.30	11,761,122.78
LATITUDE:	LONGITUDE:
38°45'28.59819" N	77°31'27.70757" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,960,569.37	11,761,146.27

CONVERGENCE ( ): 00°36'32.08"
COMBINED FACTOR: 0.999945058
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

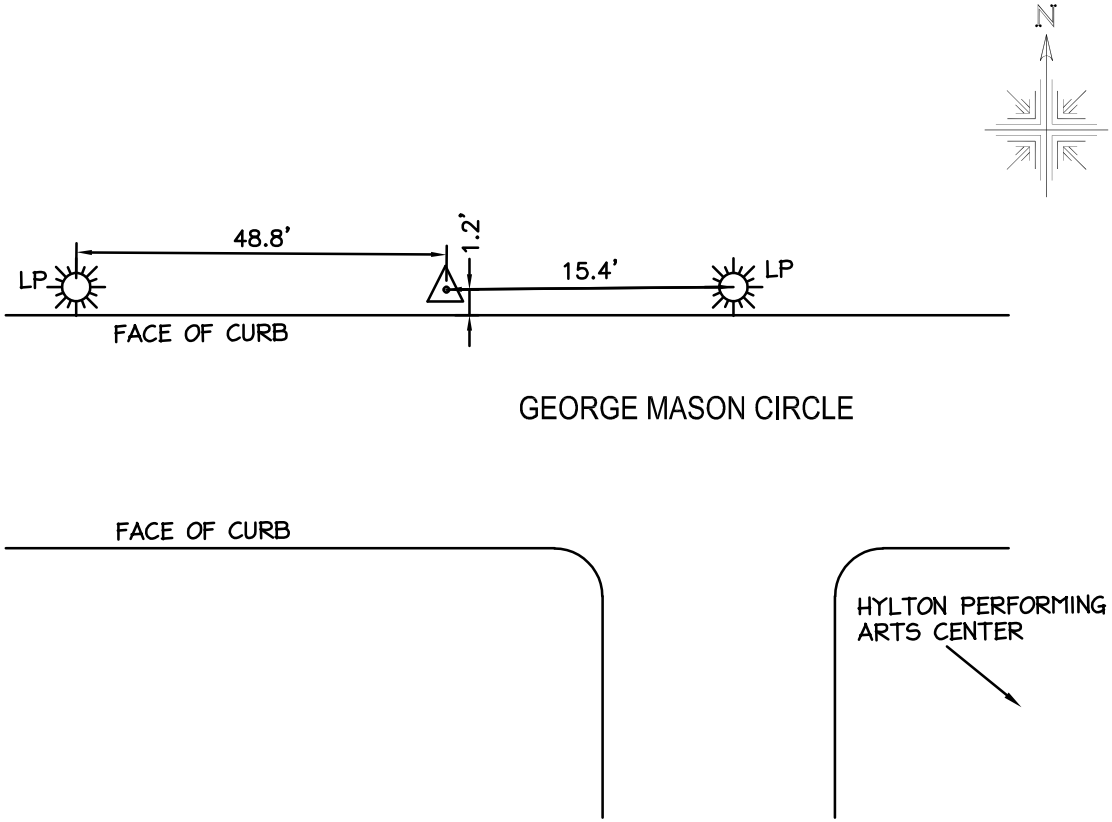
VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 236.96

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
4" x 4" x 2' CONCRETE MONUMENT WITH 2" STAMPED ALUMINUM CAP
DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-02

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY

GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT

HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983

COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,959,983.93	11,761,401.67
LATITUDE:	LONGITUDE:
38°45'22.92124" N	77°31'24.26364" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,959,997.99	11,761,425.14

CONVERGENCE ( ): ⊖ 00°36'34.23"

COMBINED FACTOR: 0.999945335

AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

VERTICAL DATA

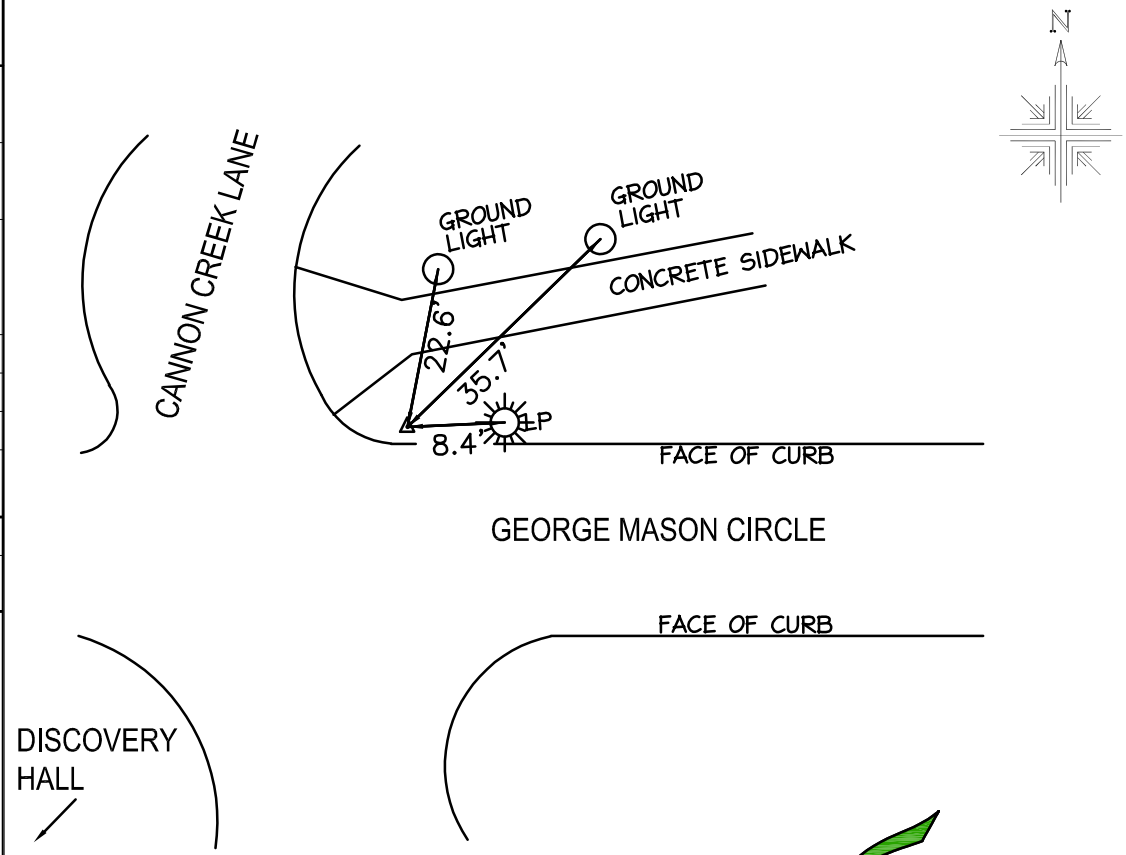
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)

ELEVATION: 229.76

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
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DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-03

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,959,832.37	11,761,809.11
LATITUDE:	LONGITUDE:
38°45'21.38029" N	77°31'19.14068" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,959,846.42	11,761,832.57

CONVERGENCE ( ): ⊖ 00°36'37.43"
COMBINED FACTOR: 0.999945316
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

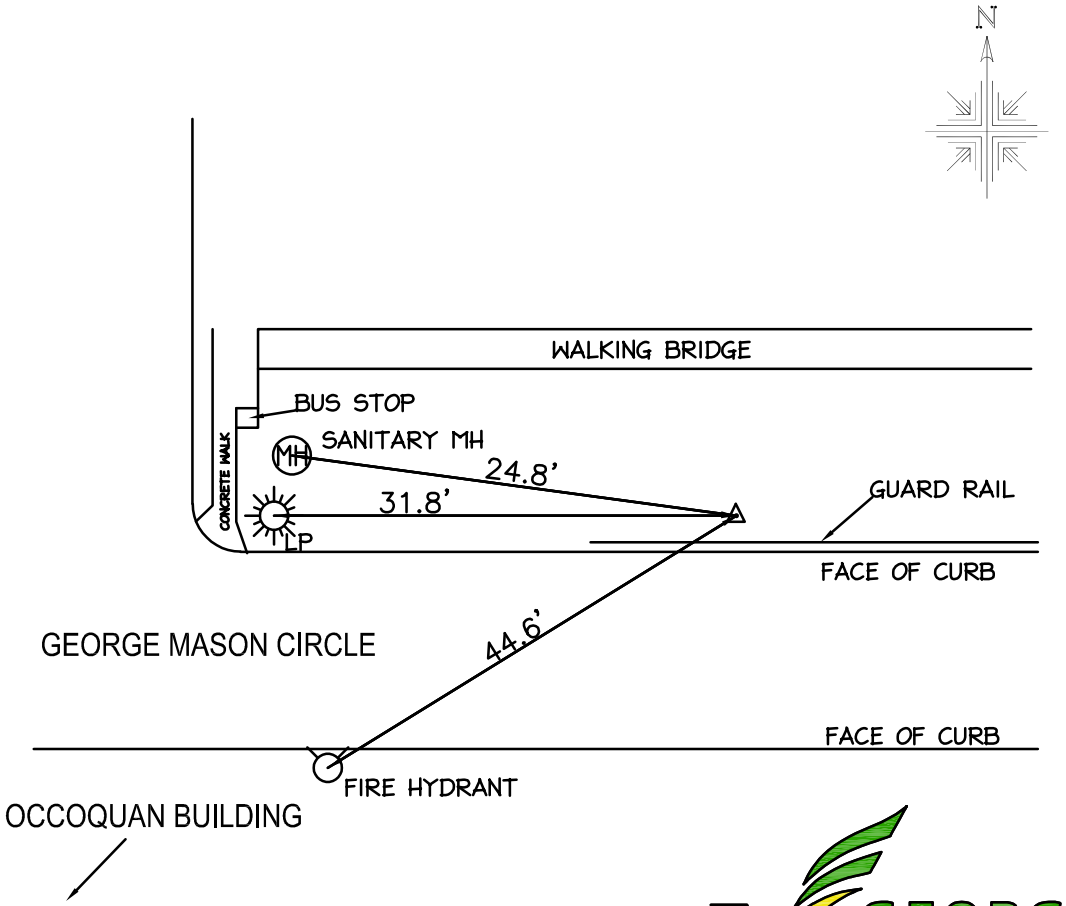
VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 229.79

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
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DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-04

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING: 6,959,862.33	GRID EASTING: 11,762,156.01
LATITUDE: 38°45'24.94961" N	LONGITUDE: 77°31'13.85445" W
GMU PROJECT NORTHING: 6,959,876.37	GMU PROJECT EASTING: 11,762,179.47

CONVERGENCE ( ): 00°36'40.73"
COMBINED FACTOR: 0.999945266
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 231.69

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)

MONUMENT:
4" x 4" x 2' CONCRETE MONUMENT WITH 2" STAMPED ALUMINUM CAP
DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-05

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,960,197.90	11,762,223.97
LATITUDE:	LONGITUDE:
38°45'27.35821" N	77°31'12.48186" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,960,211.94	11,762,247.44

CONVERGENCE ( ): ⊖ 00°36'41.59"
COMBINED FACTOR: 0.999945211
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

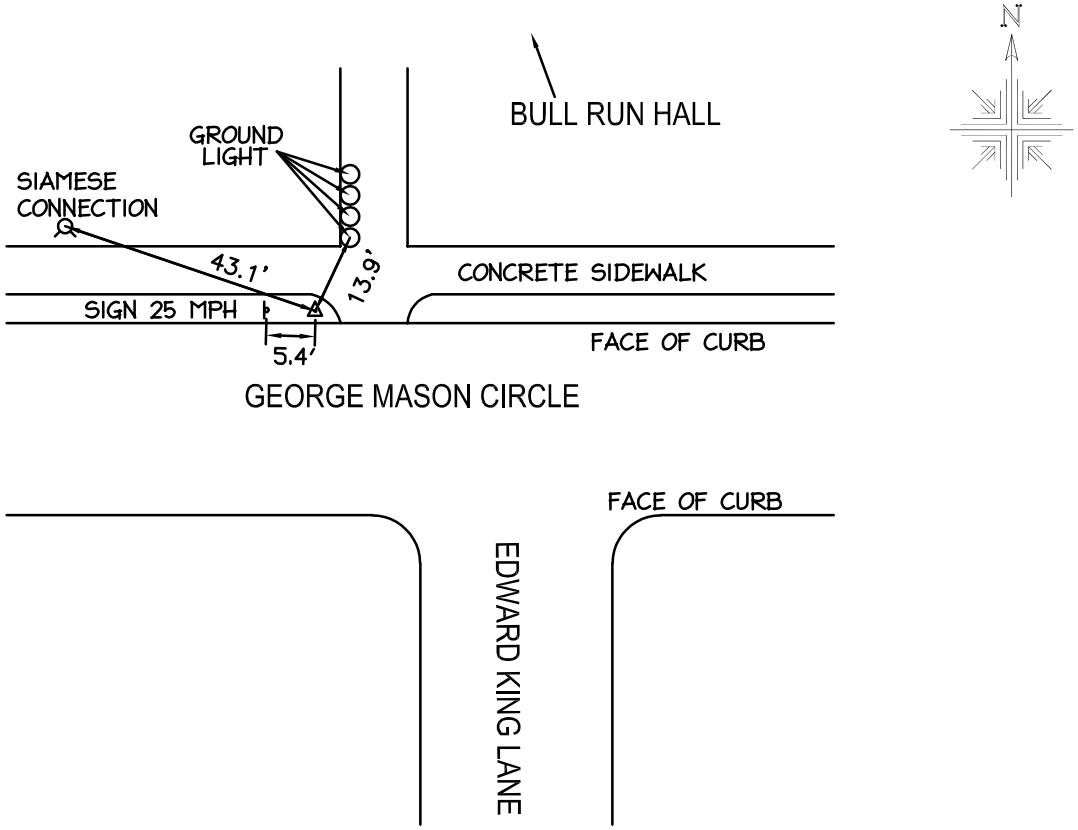
VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 233.44

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
4" x 4" x 2' CONCRETE MONUMENT WITH 2" STAMPED ALUMINUM CAP
DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-06

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,960,442.71	11,762,330.09
LATITUDE:	LONGITUDE:
38°45'27.35821" N	77°31'12.48186" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,960,456.74	11,762,353.58

CONVERGENCE ( ): 00°36'41.59"
COMBINED FACTOR: 0.999945014
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

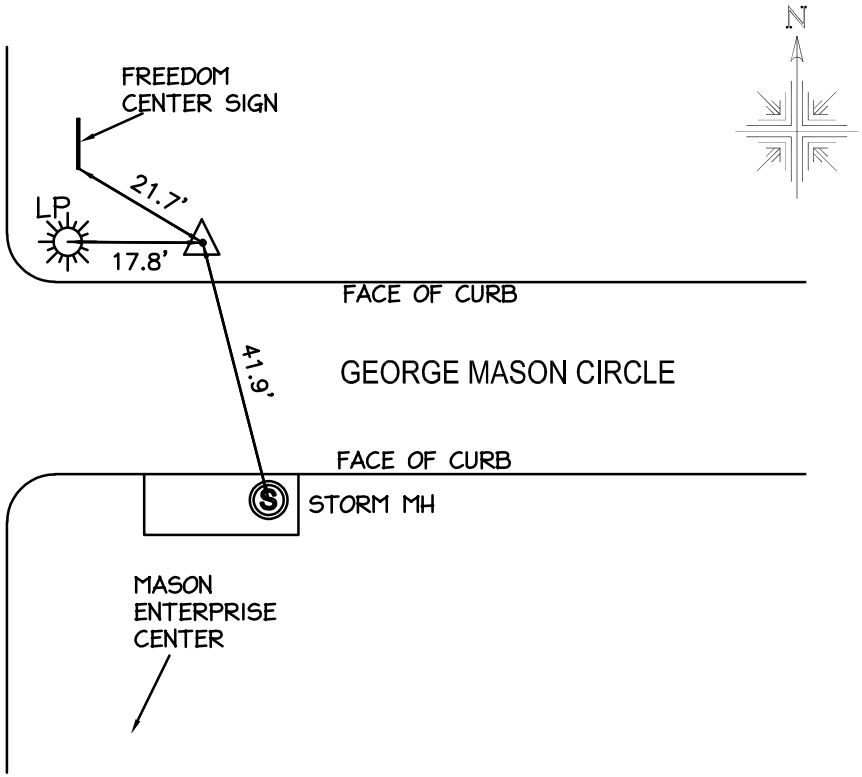
VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 237.57

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
4" x 4" x 2' CONCRETE MONUMENT WITH 2" STAMPED ALUMINUM CAP
DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-07

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,960,872.55	11,762,178.40
LATITUDE:	LONGITUDE:
38°45'31.62291" N	77°31'14.33886" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,960,886.59	11,762,201.89

CONVERGENCE ( ): ⊖ 00°36'40.43"
COMBINED FACTOR: 0.999945182
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

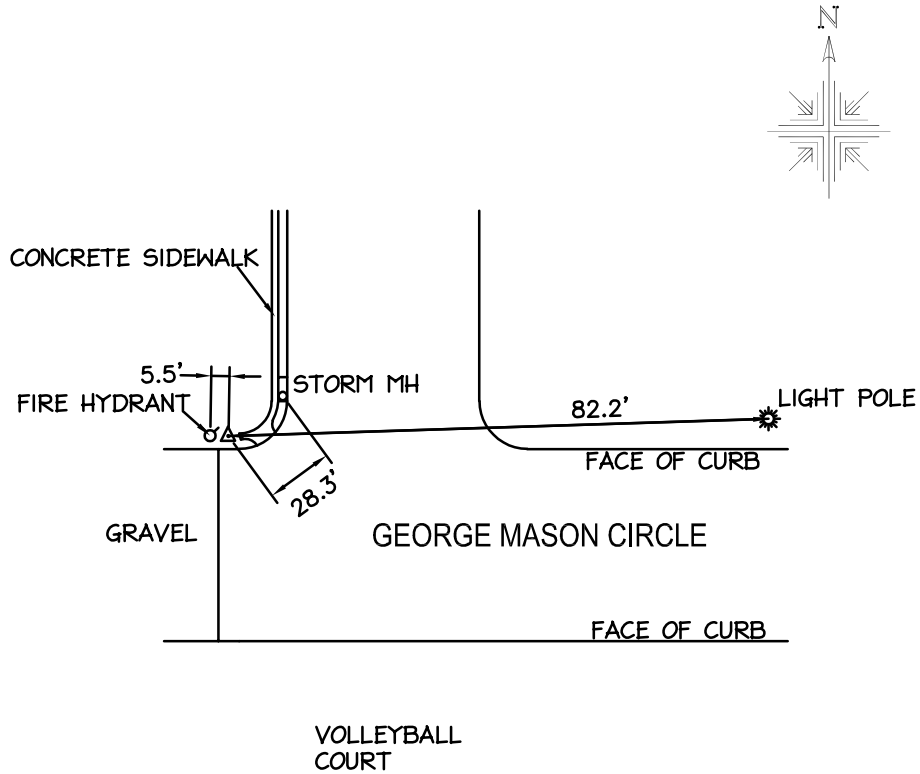
VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 235.11

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
4" x 4" x 2' CONCRETE MONUMENT WITH 2" STAMPED ALUMINUM CAP
DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-08

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED
BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,959,607.73	11,761,325.06
LATITUDE:	LONGITUDE:
38°45'19.21079" N	77°31'25.28120" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,959,621.80	11,761,348.52

CONVERGENCE ( ): 00°36'33.60"
COMBINED FACTOR: 0.999945265
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

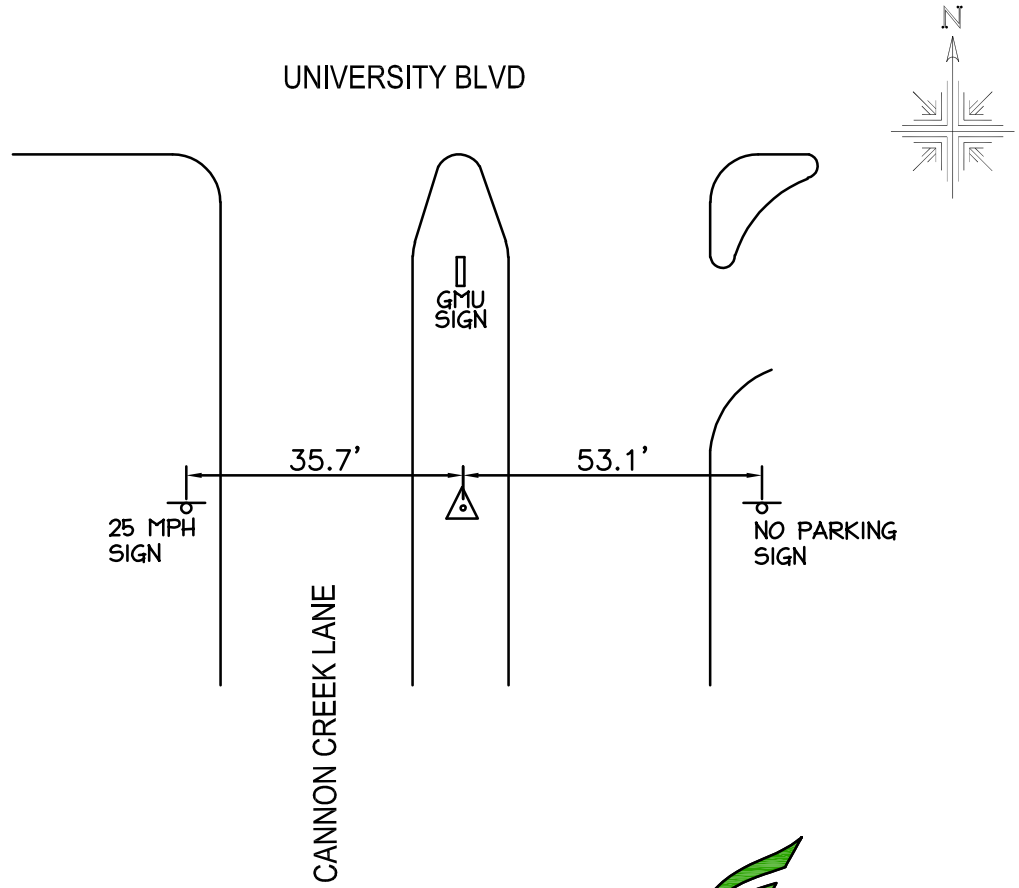
VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 230.33

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
4" x 4" x 2' CONCRETE MONUMENT WITH 2" STAMPED ALUMINUM CAP
DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-09

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,961,227.12	11,761,994.55
LATITUDE:	LONGITUDE:
38°45'35.14699" N	77°31'16.61208" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,961,241.17	11,762,018.05

CONVERGENCE ( ): ⊖ 00°36'39.01"
COMBINED FACTOR: 0.999945298
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

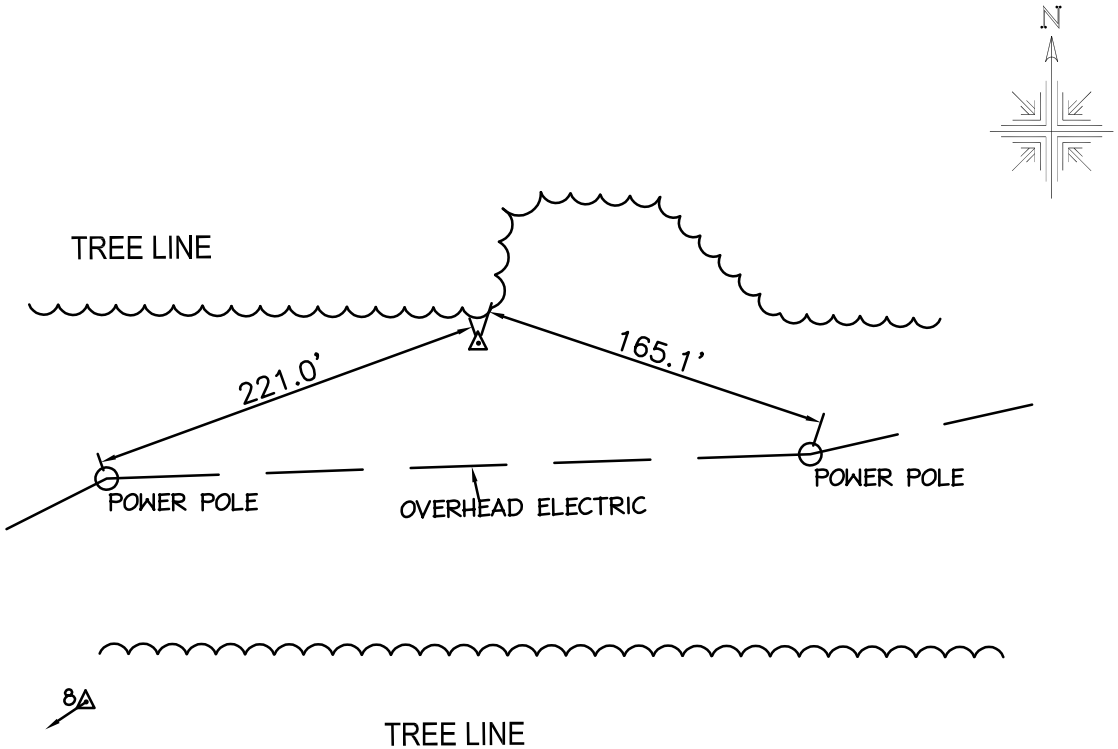
VERTICAL DATA

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 233.56

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)



MONUMENT:
4" x 4" x 2' CONCRETE MONUMENT WITH 2" STAMPED ALUMINUM CAP
DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-AZ2

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
FIELD BOOK(S) : FB. 508 PG. 19-24

RECOVERED BY : S. OSBURN
DATE : 4/17/18
REV. BY : M. SMITH

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GEORGE MASON UNIVERSITY
GEODETIC SURVEY CONTROL

HORIZONTAL DATA

MAP PROJECTION: LAMBERT
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983
COORDINATE SYSTEM: VIRGINIA COORDINATE SYSTEM - NORTH (4501)

GRID NORTHING:	GRID EASTING:
6,961,206.87	11,760,813.10
LATITUDE:	LONGITUDE:
38°45'35.07107" N	77°31'31.52957" W
GMU PROJECT NORTHING:	GMU PROJECT EASTING:
6,961,220.95	11,760,836.60

CONVERGENCE ( ): ⊖ 00°36'29.70"
COMBINED FACTOR: 0.999944807
AVG. COMBINED FACTOR: 0.999945245 (PROJECT)

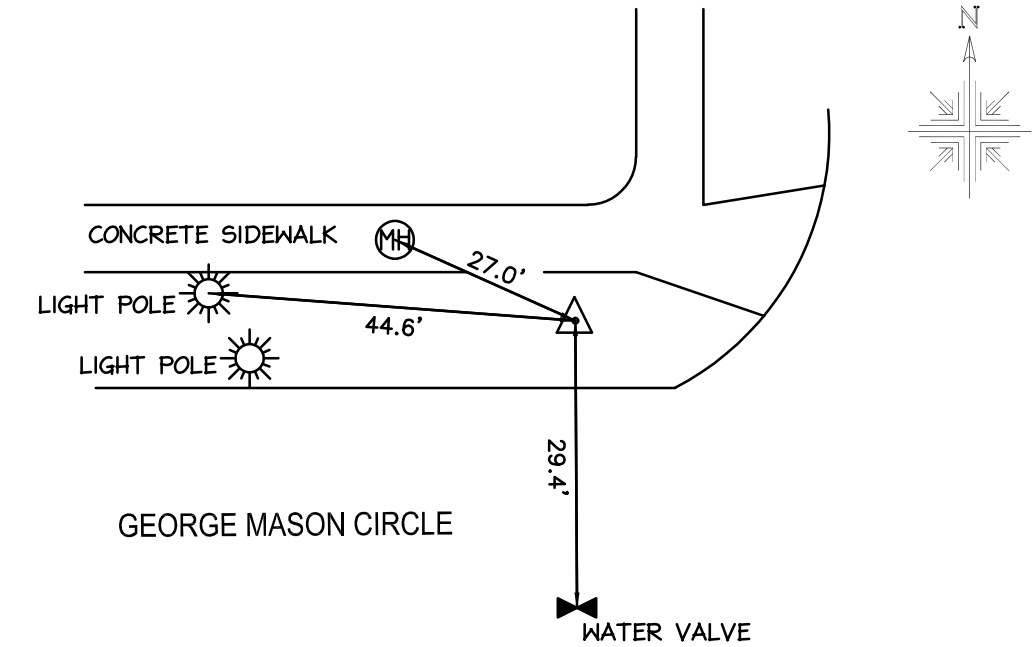
VERTICAL DATA

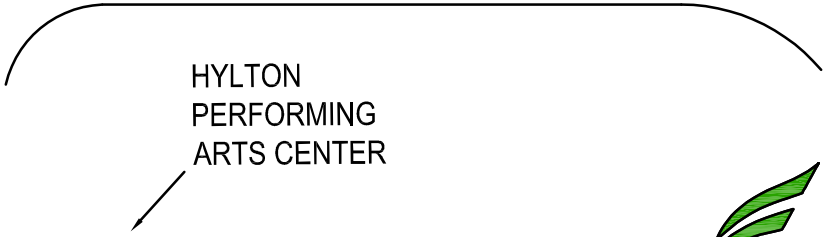
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 - GEOID 12B)
ELEVATION: 243.81

PHOTO AT STATION:

LOCATION SKETCH

(NOT TO SCALE)





MONUMENT:
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DATE SET: APRIL 2013

GEORGE MASON UNIVERSITY
PRINCE WILLIAM CAMPUS

STATION DESIGNATION

PW-AZ1

UNITS: U.S. SURVEY FOOT
CONVERSION: 1 FOOT = 0.3048 M

PROJECT NO. : 83026.060.00
SET BY : M. SCITES
PREPARED BY : C. SCHUSTER
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RECOVERED
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