

NATIONAL ORGANIZATION  
SONS OF UNION VETERANS OF THE CIVIL WAR  
CIVIL WAR MEMORIAL ASSESSMENT FORM

PLEASE:

1. Type or print, using a ball-point pen, when filling out this form. Legibility is critical.
2. Do not guess at the information. An answer of, "Unknown," is more helpful. Include a photograph of each viewable side and label it with name & direction of view.

- Thank You.

Type of Memorial

- Monument with Sculpture  Monument with Cannon  
 Monument without Sculpture  Historical Marker  Plaque  
 Other ( flag pole, G.A.R. buildings, stained glass windows, etc.)

Affiliation

- G.A.R. (Post Name & No. \_\_\_\_\_)  M.O.L.L.U.S.  
 SUVCW (Camp Name & No. McPHERSON Camp #1, GA + SC.) (Please describe below)  
 WRC (Corps Name & No. \_\_\_\_\_)  
 ASUVCW (Aux Name & No. \_\_\_\_\_)  
 DUVCW (Tent Name & No. \_\_\_\_\_)  
 LGAR (Circle Name & No. \_\_\_\_\_)  
 Other \_\_\_\_\_

Original Dedication Date \_\_\_\_\_ Please consult any/all newspaper archives for a local paper's article that would have information on the first dedication ceremony and/or other facts on the memorial. Please submit a copy of your findings with full identification of the paper & date of publication. Thank you.

Location

The Memorial is currently located at:  
 Street/Road address or site location 1400 MCPHERSON AVENUE SE  
 City/Village ATLANTA Township \_\_\_\_\_ County FULTON  
 State GEORGIA 30316

The front of the Memorial faces:  North  South  East  West

Government Body, Agency, or Individual Owner (of private cemetery that Memorial is located in)

*SEE BELOW*  
 Name CITY OF ATLANTA (BUT THEY HAVE NO FILE), GEORGIA HISTORICAL SOCIETY FOR BIAE OF TENN  
 Dept./Div. PARKS AND RECREATION  
 Street Address 55 TRINITY CITY HWY City \_\_\_\_\_  
ATLANTA State GA Zip Code 30303 Contact Person \_\_\_\_\_  
*SEE BELOW* Telephone (404) 546-6788

If the Memorial has been moved, please list former location(s).

N/A

\* BUILT IN 1877 BY FEDERAL TROOPS OCCUPYING ATLANTA, IT WAS DEEDDED TO THE SOCIETY OF THE ARMY OF THE TENNESSEE WITH "SHERMAN AND HIS HEIRS." THE CITY OF ATLANTA CLAIMS IT, MAINTAINS IT, AND HAS CONTRIBUTED TO IT'S REFRUBISHMENT. THE CITY DOES OWN THE PARK IN WHICH THE MONUMENT STANDS

**Physical Details**

Material of Monument or base under a Sculpture or Cannon = Stone <sup>MARBLE</sup>  Concrete  Metal  Undetermined If known, name specific material (color of granite, marble, etc.) Dark grey

**SUVCW -- CIVIL WAR**

Material of the Sculpture =  Stone  Concrete  Metal  Undetermined  
If known, name specific material (color of granite, marble, etc.) GRAY MARBLE, GRAY CONCRETE  
If the Sculpture is of metal, is it solid cast or "hollow?" CANNON BARREL AND BRONZE PLAQUE MOUNTED ON THE SECRET MOUNTAIN

Material of Plaque or Historical Marker / Tablet = BRONZE

Material of Cannon =  Bronze  Iron - Consult known Ordnance Listing to confirm  
Markings on muzzle = UNABLE TO SEE

Markings on Left Trunion WS Right Trunion 1837

Is inert ammunition a part of the Memorial? NO If so, describe CANNON BALL WAS STOLEN. 24 LB. GEEGE GUN BARREL.

**Approximate Dimensions** (indicate unit of measure) - taken from tallest / widest points  
Monument or Base: Height 8 FEET Width 4 FEET Depth \_\_\_\_\_ or Diameter \_\_\_\_\_  
Sculpture: Height N/A Width \_\_\_\_\_ Depth \_\_\_\_\_ or Diameter \_\_\_\_\_

For Memorials with multiple Sculptures, please record this information on a separate sheet of paper for each statue and attach to this form. Please describe the "pose" of each statue and any weapons/implements involved (in case your photos become separated from this form). Thank you!

**Markings/Inscriptions** (on stone-work / metal-work of monument, base, sculpture)

Maker or Fabricator mark / name? If so, give name & location found "MCPHERSON" ON NORTH FACE.

The "Dedication Text" is formed: \_\_\_\_\_ cut into material \_\_\_\_\_ raised up from material face

Record the text (indicate any separation if on different sides) Please use additional sheet if necessary.  
MONUMENT IMAGES MAY BE LOCATED AT "MCPHERSON MONUMENT ATLANTA GEORGIA"  
ONE SIDE HAS "MCPHERSON" CARVED ON THE MARBLE BASE

**Environmental Setting**

(The general vicinity and immediate locale surrounding a memorial can play a major role in its overall condition.)

**Type of Location**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Cemetery           | <input type="checkbox"/> Park           | <input type="checkbox"/> Plaza/Courtyard |
| <input type="checkbox"/> "Town Square"      | <input type="checkbox"/> Post Office    | <input type="checkbox"/> School          |
| <input type="checkbox"/> Municipal Building | <input type="checkbox"/> State Capitol  | Other: <u>WEST POCKET NEIGHBORHOOD</u>   |
| <input type="checkbox"/> Courthouse         | <input type="checkbox"/> College Campus | <u>PARK</u>                              |
| <input type="checkbox"/> Traffic Circle     | <input type="checkbox"/> Library        |  |

**General Vicinity**

Rural (low population, open land)  
 Town

Suburban (residential, near city)  
 Urban / Metropolitan

**Immediate Locale** (check as many as may apply)

Industrial  Commercial  
 Street/Roadside within 20 feet  Tree Covered (overhanging branches)  
 Protected from the elements (canopy or enclosure, indoors)  
 Protected from the public (fence or other barrier)  
 Any other significant environmental factor \_\_\_\_\_

**Condition Information**

**Structural Condition** (check as many as may apply)

The following section applies to Monuments *with* Sculpture, and Monuments without Sculpture - including the base for Monuments with *Cannon*. Instability in the sculpture and its base can be detected by a number of factors. Indicators may be obvious or subtle. Visually examine the sculpture and its base.

	<b>Sculpture</b>	<b>Base</b>
If hollow, is the internal support unstable/exposed? (Look for signs of exterior rust)	—	—
Any evidence of structural instability? (Look for cracked joints, missing mortar or caulking or plant growth)	—	<input checked="" type="checkbox"/>
Any broken or missing parts? (Look for elements (i.e., sword, musket, hands, arms, etc. - missing due to vandalism, fluctuating weather conditions, etc.)	—	—
Any cracks, splits, breaks or holes? (Also look for signs of uneven stress & weakness in the material)	—	<input checked="" type="checkbox"/>

**Surface Appearance** (check as many as may apply)

	<b>Sculpture</b>	<b>Base</b>
Black crusting	—	—
White crusting	—	—
Etched, pitted, or otherwise corroded (on metal)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Metallic staining (run-off from copper, iron, etc.)	<input checked="" type="checkbox"/>	—
Organic growth (moss, algae, lichen or vines)	—	<input checked="" type="checkbox"/>
Chalky or powdery stone	—	—
Granular eroding of stone	—	<input checked="" type="checkbox"/>
Spalling of stone (surface splitting off)	—	—
Droppings (bird, animal, insect remains)	—	<input checked="" type="checkbox"/>
Other (e.g., spray paint graffiti) - Please describe...	—	—

Does water collect in recessed areas of the Memorial?  Yes  No  Unable to tell

**Surface Coating**

Does there appear to be a coating? \_\_\_ Yes  No \_\_\_ Unable to determine  
If known, identify type of coating.

\_\_\_ Gilded \_\_\_ Painted \_\_\_ Varnished \_\_\_ Waxed \_\_\_ Unable to determine  
Is the coating in good condition? \_\_\_ Yes \_\_\_ No \_\_\_ Unable to determine

**Basic Surface Condition Assessment (check one)**

In your opinion, what is the general appearance or condition of the Memorial? \_\_\_ Well maintained \_\_\_  
Would benefit from treatment  In urgent need of treatment \_\_\_ Unable to determine

**Overall Description**

Briefly describe the Memorial (affiliation / overall condition & any concern not already touched on).

REINFORCE WITH CARBON FIBER AND CONCRETE PERIMETER WITH METAL RAIL  
MARKING THE SPOT WHERE GENERAL McPHERSON WAS KILLED DURING  
THE BATTLE OF ATLANTA. THE CONCRETE IS CHIPPING AND FLAKING, AND THE  
METAL IS RUSTING AND FLAKING. A NEST HOLE MARK ENCLOSED THE MONUMENT  
NEEDS PLANE TABLES REMOVED AND BE REMOVED. A CANNON BRADLE IS SET  
ON THE MARBLE BASE. IT IS PITTED AND CORRODING. INSCRIPTION IS BECOMING ILLEGIBLE.  
THE MONUMENT BASE.

**Supplemental Background Information**

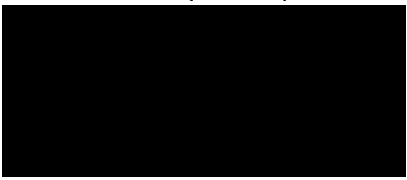
In addition to your on-site survey, any additional information you can provide on the described Memorial will be welcomed. Please label each account with its source (author, title, publisher, date, pages). Topics include any reference to the points listed on this questionnaire, plus any previous conservation treatments - or efforts to raise money for treatment. Thank you.

**Inspector Identification**

Date of On-site Survey SEPTEMBER 23, 2015, AND MARCH 18TH, 2016  
Your Name RAYMOND WOZNIAK  
Address 2527 KINCAID COURT City LAURENCEVILLE  
State GA Zip Code 30043 Telephone [REDACTED]

What Order or Organization is submitter a member of? DEPARTMENT OF GA & SC, SNUCV  
PLEASE CONTACT BRO. WOZNIAK WITH ANY QUESTIONS. (770) 882-3004, MCPHERSON CAMP.  
Please send this completed form to [REDACTED]

Walt Busch, PDC, Chair



Thank you for your help, and attention to detail. SONS OF UNION V

CIVIL WAR VETERANS OF THE National Civil War Memorials Committee







## DEATH OF MCPHERSON

The monument in the enclosure was erected by U. S. Army Engineers to mark the site where Maj. Gen. James B. McPherson was killed during the Battle of Atlanta, July 22, 1864.

McPherson rode S. from the Ga. R. R. when he heard firing in Sugar Cr. valley, where the rear attack by Walker's & Bate's divs. fell upon Dodge's 16th A. C. After pausing to observe this part of the battle, he galloped toward the left of the 17th A. C. (Flat Shoals & Glenwood), on a road through the pines.

At this point he was assailed by skirmishers of Cleburne's div.; refusing to surrender he was shot while attempting to escape.

CEG-47

GEORGIA

HISTORICAL

COMMISSION

1956





Last photo by [Davidalanbagwell](#)



## Battle of Atlanta Monuments Restoration Budget/Program

### Phase I and II – Research, Assessment, Planning, Groundwork

Historic Research	\$3550	COMPLETE
As Built Surveys	1220	COMPLETE
Conservator/Technical Assessment Stone and Metal	6300	COMPLETE
Civil Engineering Assessment	3837	COMPLETE
Construction Documents and Landscaping Plans	8000	COMPLETE
Urban Design Commission, Parks and Multi-Community Work submittal and meetings	2000	COMPLETE
RFP, Administration, Consultant Coordination	2619	COMPLETE
<b>TOTAL</b> (Ga.DNR-SHPO 60-40% Matching Grant)	<b>\$27,526</b>	<b>COMPLETE</b>

*INCLUDES all approvals from City of Atlanta, State of Georgia and 5 Community Groups – Work can proceed to Phase III.*

### Phase III – Restoration and Preservation for two Monuments/Sites

Demolition/Site Prep	\$2970
Civil Construction (sidewalk, curb, street, utilities)	15,525**
Cannon Removal (crane and scaffolding)	6750
Cannon Restoration (metal)	4725***
Replace Retaining Wall	2127*
Monument Foundations	10,125*
Stone Cleaning and Setting	4388
New Tiered Granite Steps	11,340*
New Cannonball Replacements	3375
Reset Monument Bases and Steps	2700
New Construction (Footings, Posts, Steel Rails, Benches Surrounds, Walls as detailed below)	104,622
Footings	\$7559*
Posts	8978 (Granite)
Rails	2495
Surrounds/Benches	45,090 (Granite)
Walls	40,500 (Granite)
Erosion Control (Construction)	945
Landscaping	12,420
Signage	9619
<b>TOTAL</b>	<b>\$191,631</b>

*INCLUDES all contractor and management fees.*

*Total items with \**

\*These are priority items to restore the monument infrastructure. They are critical to the restoration effort and vital to the future structural integrity of the monuments. The total for the items with asterisks is \$31,151 and has been covered.

\*\*These items totaling \$15,525 are also priority and have been covered.

\*\*\*Cannon Restoration has been covered.

*Note the figures above do not cover the cost to repave the sidewalks from Moreland Avenue to the McPherson Monument which the city is planning to do.*



**SONS OF UNION VETERANS OF THE CIVIL WAR  
CIVIL WAR MEMORIAL FUND REQUEST**  
(FORM CWM #62)

**REQUESTOR INFORMATION** (Please print or type)

CAMP AND DEPARTMENT NAME: Dept of GA & SC

NAME/ TITLE OF CONTACT PERSON: Ray Wozniak

ADDRESS: 2527 Kiner Ct

CITY: Lawrenceville STATE: GA ZIP CODE: 30043

PHONE(S): 770-822-3004 E-MAIL: bigheadxray@yahoo.com

SIGNATURE: //signed//

**NAME OF MEMORIAL/MONUMENT** McPherson Monument

**NAME, NUMBER & STREET ADDRESS OF CEMETERY OR OTHER LOCATION**

Monument Ave SE, Atlanta

LOCATION DESCRIPTION (i.e. corner of 3<sup>rd</sup> and Lincoln St) Small park at Intersection of Monument Ave SE and McPherson Ave SE

GPS N \_\_\_\_\_ W \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

**WAS FORM CWM-61: GAR MONUMENTS/CIVIL WAR MEMORIALS ASSESSMENT SUBMITTED? Y X N**

X EXISTING MONUMENT    \_\_\_\_\_ NEW MONUMENT    \_\_\_\_\_ LAST SOLDIER PROJECT

RESTORATION COST \$ 191,631 (entire project; see supporting docs) AMOUNT RAISED \$ \_\_\_\_\_  
REQUESTED \$ 2,000

**CHECK PAYABLE TO:** Dept of GA & SC,

ADDRESS: c/o Mark Hale, PDC, 101 Fox Fire Terrace

CITY: Jonesboro State: GA ZIP CODE: 30238

Memorial Grant Committee Use Only					
Grant Request # _____			Amount Approved \$ _____		
Approve	Deny	Table	Name Committee Member	Signature	Date

*Check box, sign, date & return completed email to Committee Chair, who will send to National Treasurer for payment.*

**MONUMENT/ MEMORIAL INFORMATION**

WHEN WAS IT BUILT: 1880 WHO OWNS IT: City of Atlanta

WHO IS FINANCIALLY RESPONSIBLE? Battle of Atlanta Monuments (B\*ATL)

ARE MATCHING CONTRIBUTIONS AVAILABLE?      FROM WHERE:     

ARE OTHER SOURCES OF FUNDS AVAILABLE? Y FROM WHERE: B\*ATL

WAS A GRANT FROM THE SUVCW PREVIOUSLY RECEIVED FOR THIS PROJECT? No

DATE:      AMOUNT:     

DESCRIBE THE WORK THE GRANT IS NEEDED FOR (Be specific, use continuation sheet if needed)

This grant will be part of a larger project to restore the McPherson Monument and park. It is sponsored by B\*ATL and the city of Atlanta. Details of the project are in the supporting documentation

WHO EVALUATED THE NEED FOR THE WORK AND WHAT ARE THEIR QUALIFICATIONS? See supporting documentation

WHO WILL DO THE DESCRIBED WORK, AND WHAT ARE THEIR QUALIFICATIONS? B\*ATL contracted architects and general contractors

WHO WILL RECEIVE FUNDS IF GRANTED? B\*ATL through the Dept of GA & SC

LIST WHAT THE CAMP/DEPARTMENT HAS AND/OR WILL DO TO ACCOMPLISH THE PROJECT

Fund raising and other support to B\*ATL as required.

**PRELIMINARY DESIGN SUMMARY**

**Prepared For**

**Mr. Henry Bryant, Chairperson  
B-ATL, The Battle of Atlanta Commemorization Organization, Inc.  
1340 Metropolitan Avenue, SE  
Atlanta, GA 30316**

**For**

**McPherson and Walker Civil War Monuments  
Preservation Assessment and Restoration Plan Services**



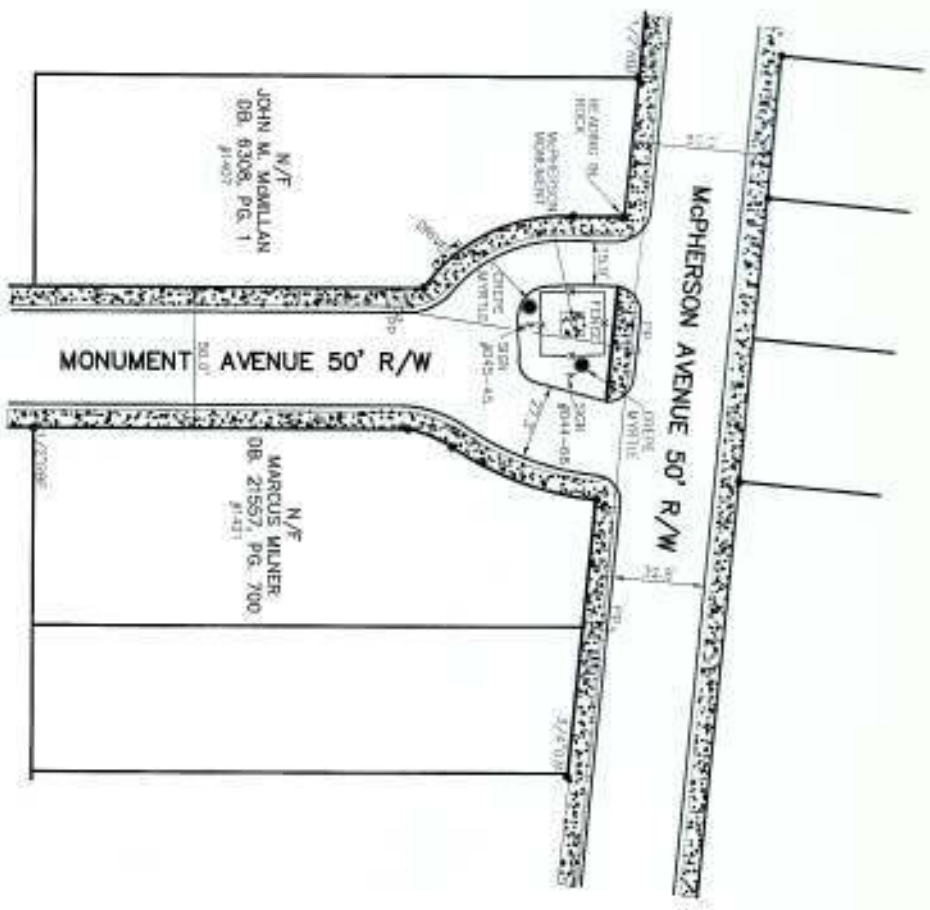
**Submitted by**



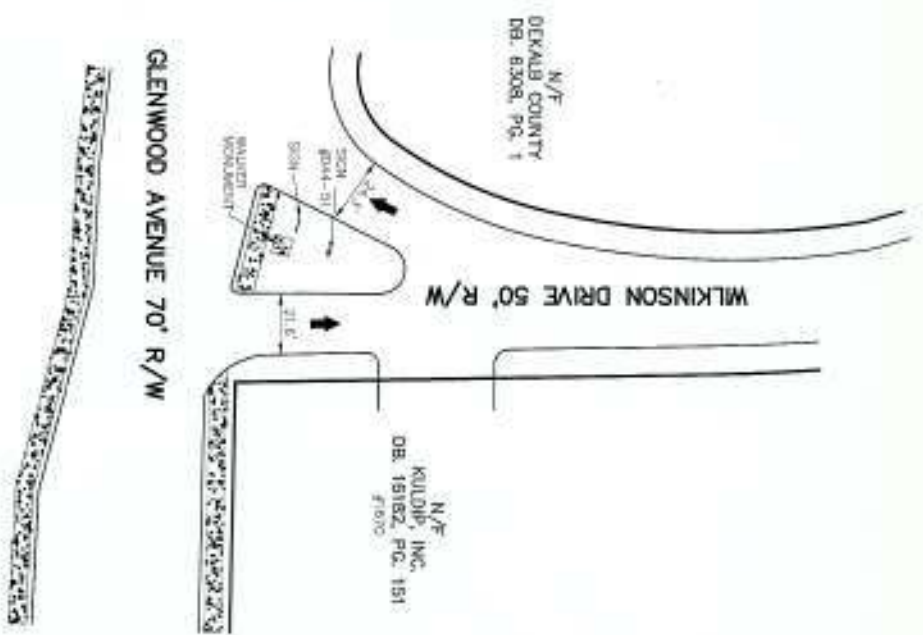
1383 Spring Street, NW  
Atlanta, Georgia 30309  
404 875 1517

**05.24.2012**





McPHERSON MONUMENT SURVEY



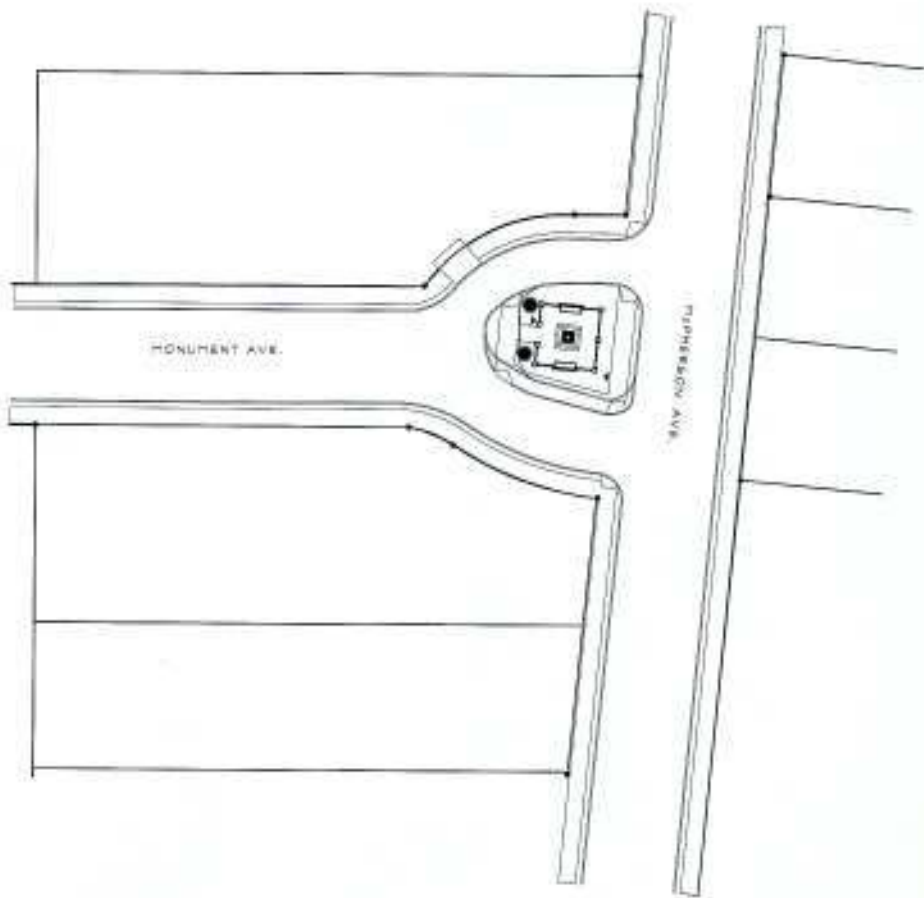
GLENWOOD MONUMENT SURVEY

25' BATTLE OF ATLANTA MONUMENTS

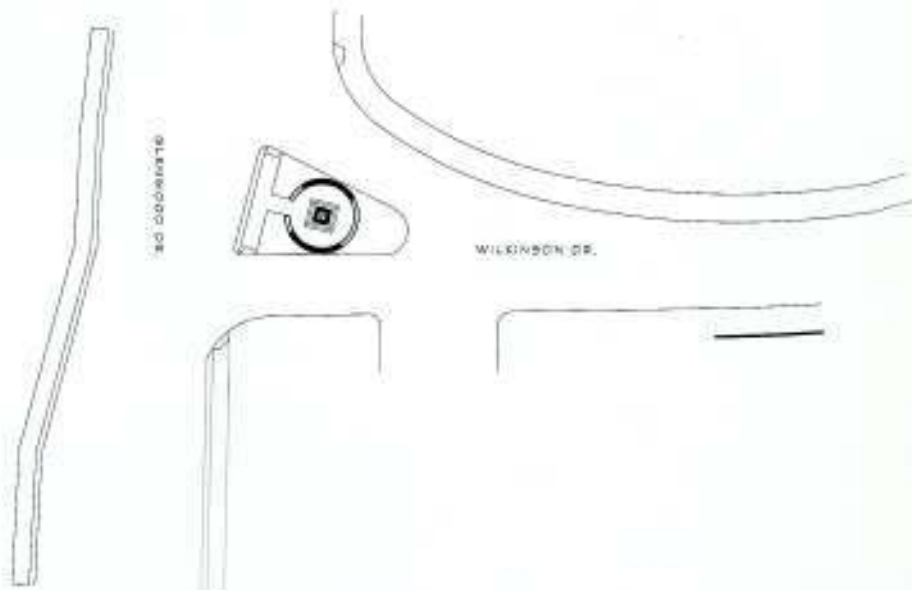
<p><b>BATTLE OF ATLANTA MONUMENTS</b></p>	<p>PROJECT NO. _____</p>
	<p>DATE _____</p>
<p>SCALE _____</p>	<p>BY _____</p>
<p>CHECKED BY _____</p>	<p>DATE _____</p>
<p>APPROVED BY _____</p>	<p>DATE _____</p>
<p>PROJECT NO. _____</p>	<p>DATE _____</p>
<p>BY _____</p>	<p>DATE _____</p>
<p>CHECKED BY _____</p>	<p>DATE _____</p>
<p>APPROVED BY _____</p>	<p>DATE _____</p>

A1.0

PROBLEY & MOSE  
 SURVEYORS & ENGINEERS, P.C.  
 1000 W. ALLEY STREET, S.W.  
 ATLANTA, GA 30331  
 PHONE 404.525.4400  
 FAX 404.525.4401



MATHERESON MONUMENT SITE PLAN  
1/2000



GLENWOOD MONUMENT SITE PLAN  
1/2000

DATE: 1/2000  
DRAWN BY: [illegible]  
CHECKED BY: [illegible]

A1.1

ARCHITECTURAL  
SITE PLAN

NO.	DATE	REVISIONS

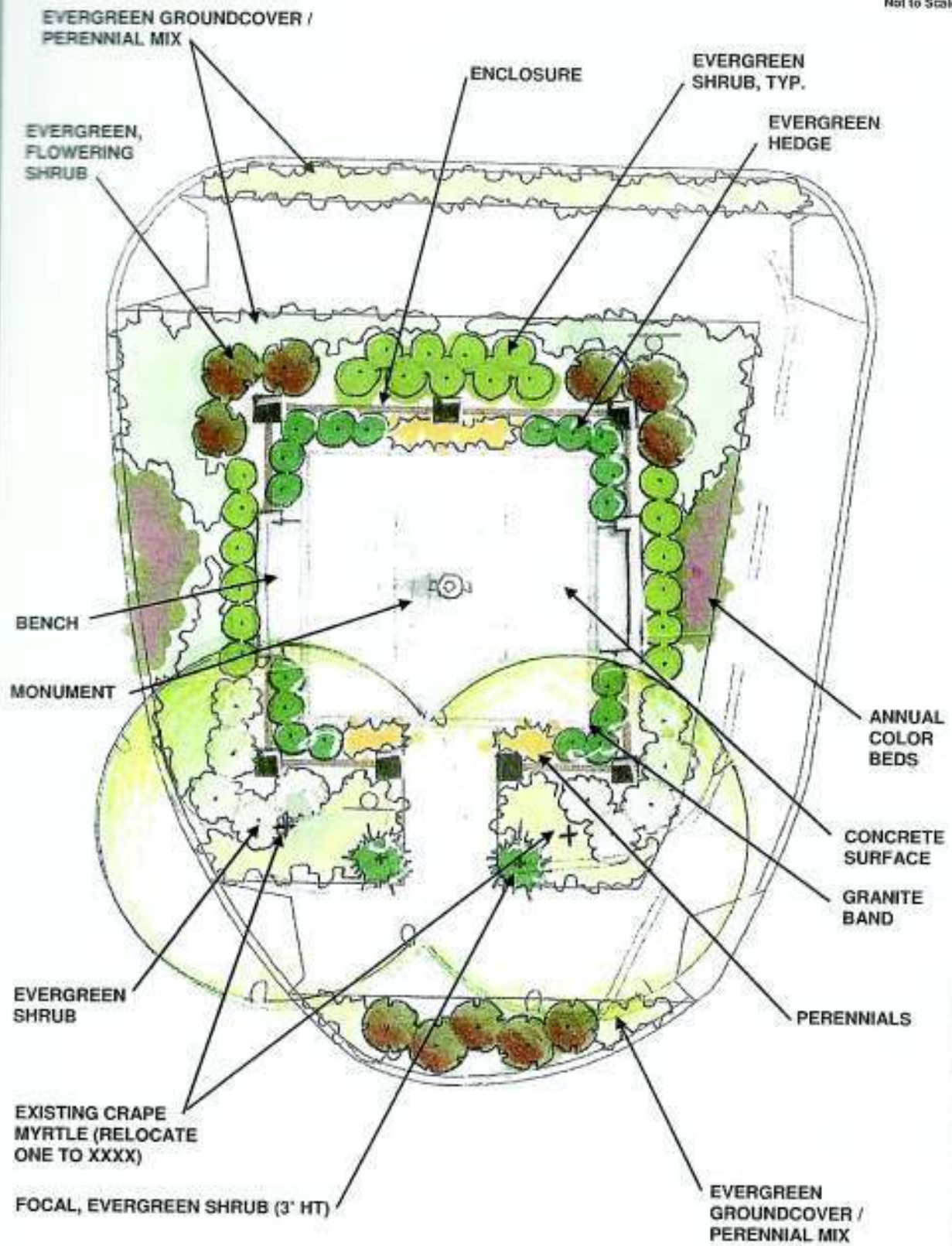
**BATTLE OF ATLANTA  
MONUMENTS**

PROFESSIONAL ARCHITECT  
 REGISTERED ARCHITECT  
 1000 N. WILKINSON DR.  
 ATLANTA, GA 30309  
 PHONE: 404.525.1234  
 FAX: 404.525.1235  
 WWW: WWW.PEPPERLAW.COM

# McPherson Monument Concept

April 2012

Not to Scale

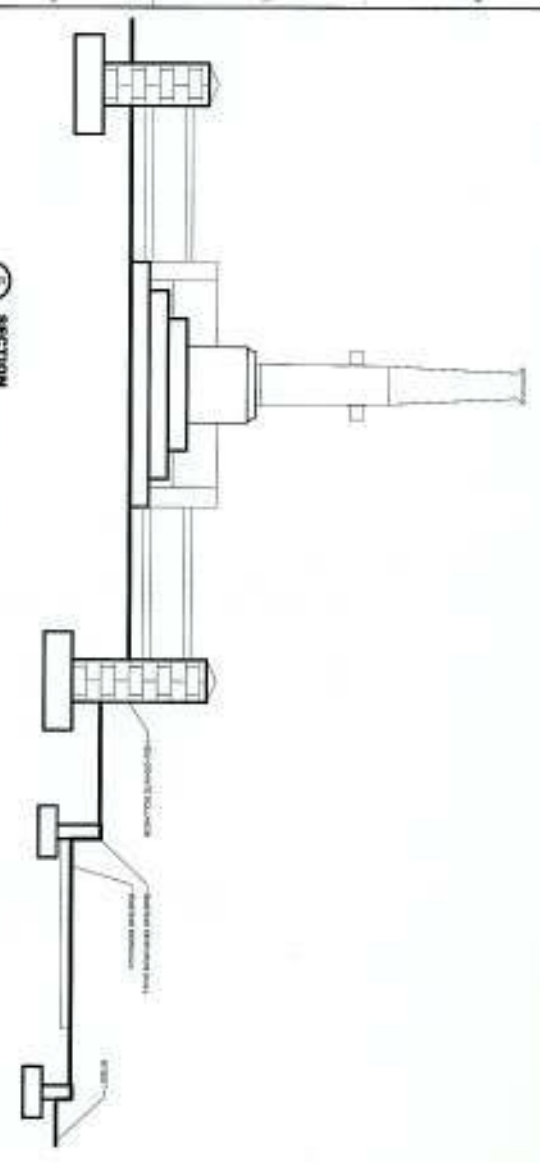


**PRELIMINARY**

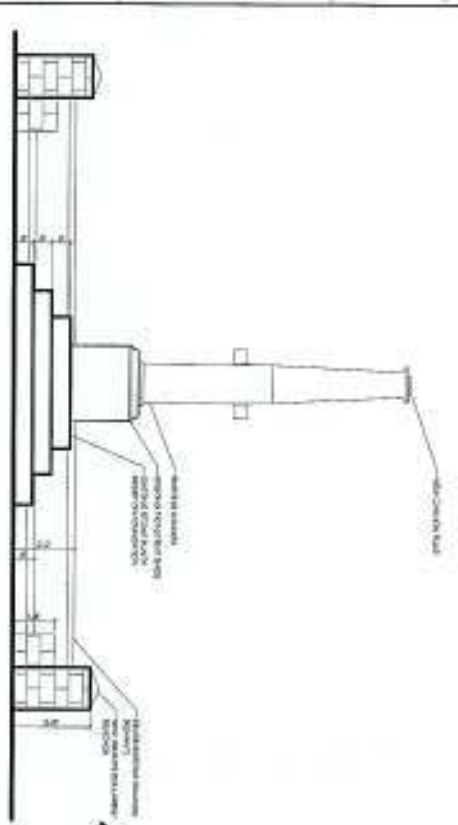




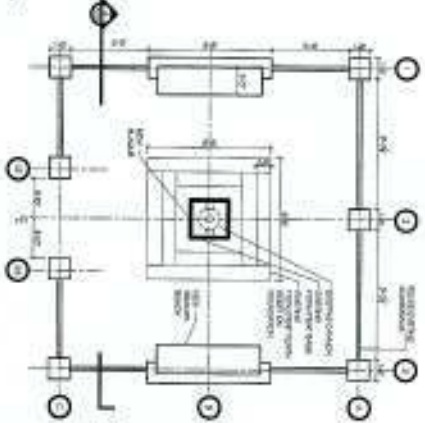
**SECTION**  
12'-0" = 1"



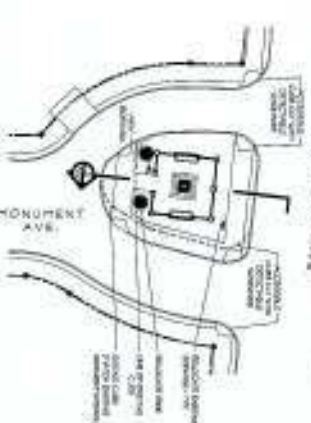
**ELEVATION**  
12'-0" = 1"



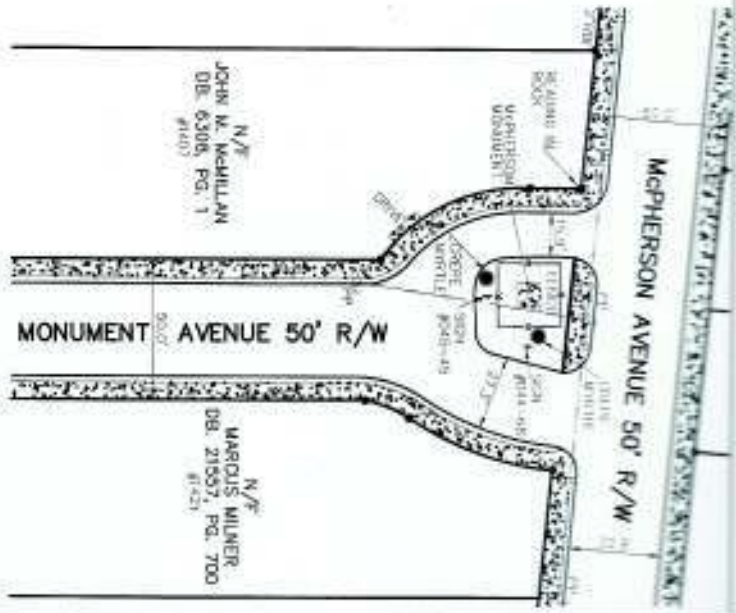
**PROPOSED PLAN**  
1/4" = 1'-0"



**ARCHITECTURAL SITE PLAN**  
1/8" = 1'-0"



**SURVEYING CONDITIONS**  
1/8" = 1'-0"

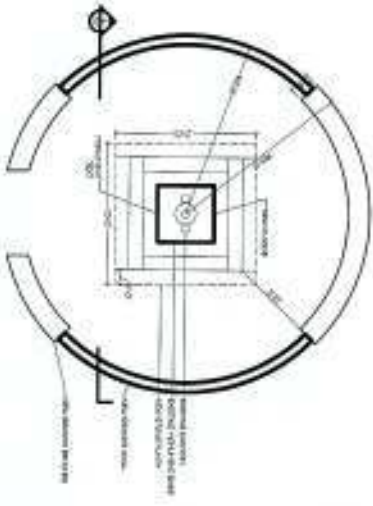


**A2.0**  
FLANG &  
ELEVATIONS  
MCPHERSON

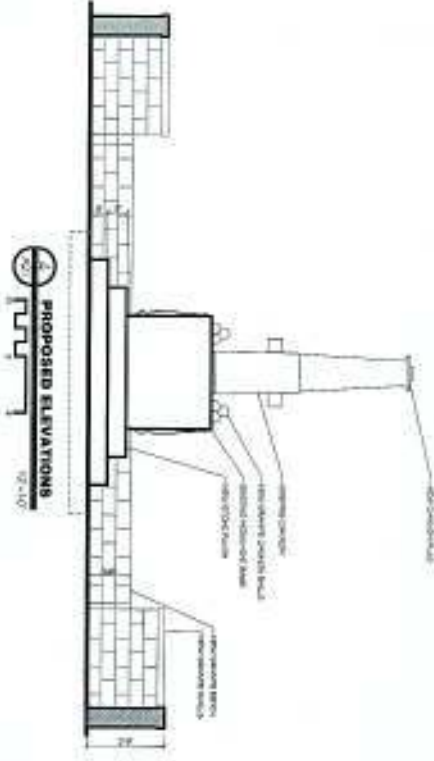
**BATTLE OF ATLANTA MONUMENTS**

**PHILADELPHIA + HOORN**  
ARCHITECTS P.C.  
PHILADELPHIA, PA  
1500 MARKET STREET, SUITE 200  
PHILADELPHIA, PA 19102  
TEL: 215-575-1000  
WWW.PHILADELPHIAHOORN.COM

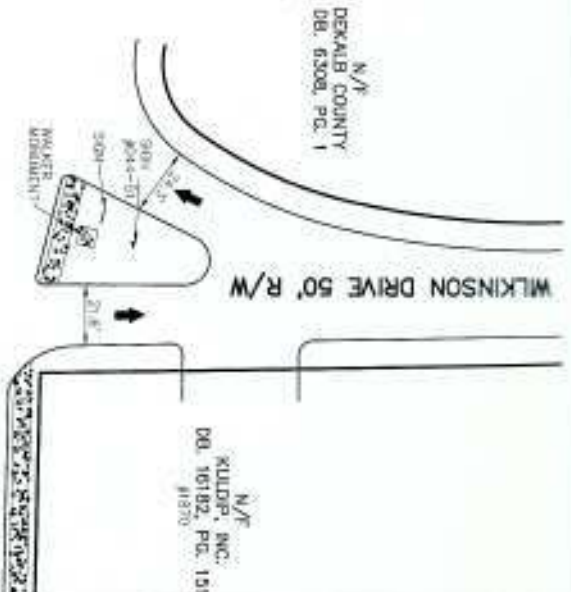
**PROPOSED PLAN**  
SCALE



**PROPOSED ELEVATIONS**  
SCALE



**ARCHITECTURAL SITE PLAN**  
SCALE



UNIVERSITY OF GEORGIA  
ARCHITECTURAL SERVICES  
KULDER, INC.

**BATTLE OF ATLANTA  
MONUMENTS**

A2.1

UNIVERSITY OF GEORGIA ARCHITECTURAL SERVICES



February 1, 2012

Mr. Henry Bryant, Chairperson  
B-ATL - The Battle of Atlanta Commemorization Organization, Inc.  
1340 Metropolitan Avenue, SE  
Atlanta, GA 30316

**McPherson and Walker Civil War Monument  
Preliminary Preservation Assessment and Restoration Report**

**Project Background**

Pimsler Hoss Architects, Inc. with the support of consulting professionals has reviewed existing conditions at two historic battlefield monument sites in Atlanta, Georgia. The McPherson Monument is located at the intersection of McPherson Avenue, SE and Monument Avenue, SE. The Walker Monument is located at the intersection of Wilkinson Drive, SE and Glenwood Avenue, SE.

The monuments are "bookends" with McPherson Monument predating the Walker Monument by approximately twenty five years. While the monuments themselves are quite similar, each containing a steel cannon placed vertically on a granite pedestal, the site conditions are quite different. Each site is approximately two thousand square feet of area.

The McPherson Monument is placed within the East Atlanta Neighborhood on relatively quiet city streets. The monument itself rests atop a base of marble steps, which are visible at this time. The monument is surrounded by a planted area containing Juniper bushes, a steel / concrete enclosure and areas for annual plantings. A plastic bench adorns the site as well.



**view south (park)  
McPherson Monument**



**view north (monument)  
McPherson Monument**



The Walker Monument sits on a relatively small grassed site within the right of way entry ramp to Interstate Twenty, heading west. There is no planting, fencing or context at this time and the pedestal base sits directly on the grass without the marble steps.



**view east (park)  
Walker Monument**



**view west (monument)  
Walker Monument**

This first phase of work focuses on developing a Conservation Assessment, which includes the evaluation of existing conditions and plan for treatment and preservation of the two monuments. Phase two, which will follow at a later date, is a Restoration and Design Engineering Analysis, focused on developing a plan for restoration of the monuments and the related site surrounds.

Appendix A of this report includes existing drawings of the two monuments.

### **McPherson Monument**

The McPherson Monument is a nine foot tall, likely a Pattern 1819, 24-pounder iron siege gun, placed vertically, with an open bore or barrel and muzzle facing upward to the sky. The cannon sits on a marble pedestal that is two foot six inches in height, depth and width. The top of the pedestal is flat with no signs of additional decorative elements. The sides are contoured at the top edge of the pedestal. The north face of the pedestal is inscribed with the name 'McPherson'. Below the marble pedestal are three steps of marble which support the pedestal and cannon above.



**pedestal base and steps**



**pedestal inscription**

3. Preliminary Preservation Assessment and Restoration Report  
02.01.2012

The stone base of the monument has some staining from the rust of the steel cannon above. The pedestal and the steps also have mildew evident on all surfaces.



**pedestal rust stains and mildew**



The cannon has identifying marks on each face of the trunnions. 'WF' is inscribed on one face and the other face has a date of 1837.



**trunnion inscription (east)**



**trunnion inscription (west)**

The upper most edge of the cannon has a contoured muzzle, rather than maintaining the shape of the barrel of the cannon. The body of the cannon itself appears to have been coated at some time. This is apparent as one studies the texture of the cannon, where the corrosion is readily evident beneath.



**flared cannon muzzle**



**cannon shaft corrosion**



The base of the cannon, as it meets the stone pedestal shows signs of heavy pitting and corrosion with rust particles noted to be flaking off of the cannon at this time.



**cannon base corrosion**

The McPherson Monument is located in a park like setting, surrounded immediately by the public right of way streets, amidst homes in the East Atlanta Neighborhood. The area immediately adjacent to the base of the monument is covered with dense juniper ground cover. Two steel pipes run horizontally, inbedded in concrete columns which are topped with bricks, form a fence around the monument. Additional Crepe Myrtles flank the north and south boundaries of the monument, along with two National Park Service Markers to the south and east edges of the site.



**view at north along McPherson**



**view at east**



**view at south**



**view at west**

# S<sup>e</sup> STABILITY ENGINEERING

431 W. Ponce de Leon Ave. Ste 4, Decatur, GA 30030 Ph: 404-377-9316

December 1, 2011

Randy Pimsler  
Pimsler Hoss Architects  
1383 Spring St NW, Suite B  
Atlanta, GA 30309

RE: Inspection Letter for the Battle of Atlanta Battlefield Monuments  
Inspection Date: 11/15/11  
Se#11296

## **Battle of Atlanta Battlefield Monuments Project**

### **Phase I – Conservation Assessment: Structural**

#### I. McPherson Monument

The McPherson Monument consists of a vertical cannon barrel placed on a stone pedestal with surrounding stone steps. A steel and concrete/masonry fence is constructed around the monument, enclosing a 20ftx20ft (approximate) space. My report will outline the observed and assumed condition of all structural elements at this time.

#### Cannon

The cannon barrel is approximately 9'-6" tall and 16" diameter at the base. It is not clear how the barrel is attached to the stone pedestal. There is a lot of visual rust and corrosion at the base of the barrel where it rests against the stone pedestal. This area easily traps moisture which is accelerating the corrosion. It was also mentioned on site that the top of the cannon is not capped and allows water/debris to collect in the barrel.

The Metals and Materials engineers on our project team will be conducting tests to identify the condition of the cannon and extent of corrosion. We will review their findings and assess if structural repairs are required on the cannon. Additionally, we may need to coordinate during phase II on recommendations for capping the cannon and affixing it to the pedestal. Measures should also be taken to eliminate areas which trap moisture against the steel and cause corrosion. Using grout filler around the base of the cannon could provide positive drainage of water away from the base.

#### Stone Pedestal and Stairs

The base of the monument consists of 3 stairs and a center solid stone pedestal. The pedestal is approximately 2'-8" square and 2'-8" tall. The upper stone stair is also a solid stone, 4'-8" square and 9.5" tall. These two stone pieces are in good condition with no visible structural defects. The lower two stairs are constructed with long strips of stone surrounding the upper



pedestal. These stairs have cracked mortar joints and are settling away from the center pedestal. Looking through some of the small cracks in the mortar joints, it appears that the center pedestal sits on some form of stacked stone foundation and the outer stairs likely just sit on grade. Therefore, the outer stone stairs are subject to settlement while the center appears to have a more solid foundation. I did not see any signs of settlement or leaning of the center stone pedestal.

Using a soil probe, I was able to determine that there is firm soil approximately 12" below grade. I also found that there may be a 4<sup>th</sup> stone stair buried under grade. All the way around the perimeter of the lower stair, I hit solid stone just under the soil surface. I believe that another layer of stairs may have been buried over time.

I recommend as part of the restoration process, that they excavate around the perimeter of the stairs. This will reveal if there is another buried stair and will also give us further information as to the foundation for the monument. I also recommend that the lower stairs be removed for visual inspection of the center pedestals foundation and also to correct the existing settlement in these stairs. If a poor foundation is found under the center pedestal, remedial efforts may be required to support it. This repair could include pouring new concrete foundations, or possibly just using mortar to repair degraded masonry foundations. We can investigate this further once the lower stairs are removed for inspection.

(see attached sketch for more information)

#### Steel and Concrete/Masonry Fence

The fence surrounding the McPherson monument consists of 8 concrete/masonry piers with steel pipes between the piers. The concrete piers are approximately 2'-8" tall and 12" square. They appear to be unreinforced concrete with bricks at the top. In general, the fence is in mediocre condition. Many of the piers are cracked at the base and/or where the steel tube connects. The piers were poured on top of a previous granite curb and it appears that there is little to no foundation for the piers. Although the fence has minor structural defects, it still functions as a barrier. Repairing the fence is not feasible and if modifications are going to be made, I recommend removing this structure completely and starting anew.

#### II. Walker Monument

The Walker Monument consists of a vertical 7ft tall cannon barrel placed on a solid stone pedestal. My report will outline the observed and assumed condition of all structural elements at this time.

#### Cannon

The cannon barrel is approximately 7'-0" tall and 16" diameter at the base. It is not clear how the barrel is attached to the stone pedestal, however it appears to be embedded and encased to a certain depth. There is surface rust on the barrel, but no major corrosion is visible.

The Metals and Materials engineers on our project team will be conducting tests to identify the condition of the steel cannon. We will review their findings and assess if structural repairs are

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required. At this time I do not see any need to modify the attachment to the stone base. I do recommend that the top of the cannon is capped to keep water and debris from filling the barrel.

Stone Pedestal and foundation

The Walker cannon is attached to a 4ft square by 3ft tall granite pedestal base. This pedestal sits on top of a larger, 6'-5", square stone foundation. The pedestal is not attached to this foundation and is currently sitting out of plumb. It appears that a vehicle collision has shifted the pedestal on its stone foundation. There is no sign of settlement at this monument.

Using a soil probe around the base of the stone foundation, I found that there is a solid layer approximately 3ft below grade. This could be a widened stone foundation or some type of concrete foundation. I recommend as part of the restoration process, that they excavate around the perimeter of the base to determine what lies beneath.

There are no apparent structural defects with the Walker Monument, but I do recommend that the pedestal be attached to the stone foundation. This can be designed as part of the restoration process.

If you have any questions or if I can be of further assistance, please call me.

Sincerely,  
Stability Engineering, Inc.

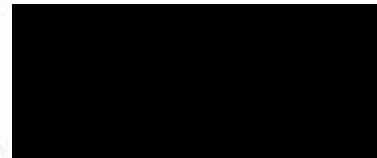


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## Examination and Proposed Treatment

Monument One - McPherson Monument,  
corner of McPherson and Monument Streets

The cannon was examined from the ground on January 29, 2012.



### Condition

The tube has been inserted vertically, bore up, into a stone plinth, which appears to be a rougher grade of Georgia marble. There appears to be a collar of mortar or Portland cement at the junction of steel tube and stone. The iron is particularly corroded at this junction (photo). It is uncertain how much bedding exists below the surface.

The tube has been coated at some time with green "verdigris" paint, typically used in artillery preservation in the 1950's and 1960's. This coating is now chalking, friable, and failing. There appears to be only one coating application. The steel surface is pitted throughout (photo). The failed coating and the differential aeration is stimulating galvanic corrosion of the steel in the pits (large cathode/small anode). With magnification, shinier active ferrous chloride is evident in the pits. Additionally, there are scratches on the surface at eye level.

### Proposed Treatment

The existing paint layer should be removed using blasting and an appropriate medium at low pressure. Media to be considered include ground walnut shell, sponge blasting, and dry ice mist. Loose scale, paint residues, and media need to be thoroughly collected.



An industrial/marine coating system should be selected, based not only on cost but the skill and experience of a contractor with these systems. The primer and topcoat must come from the same vendor. Technical advice should be sought from the manufacturer, and instructions followed exactly. Industrial coating systems used in conservation of historic artillery include those from Rustoleum, Sherwin Williams, and PPG.

The junction of steel/stone at the base will need to be re-worked, perhaps using silicone, to deflect water.

Finally, a tampon for the bore will need to be created to keep rainwater away. A fiberglass disc would be suitable, but it should be flanged with a collar to sit inside the bore and caulked at the edge. With a thin profile, the plug would be invisible from the street. Or, a historically accurate tampon could be created, based on research.

### **Treatment Concerns**

Water issues will need to be addressed throughout the preservation effort.

Standing water is likely in the bore and will need to be removed using a submersible pump and wet/dry vacuum.

To drive moisture from the interior, desiccant sachets used in marine cargo containers could be packed down the bore and then removed, or drum heater bands could be wrapped around the exterior tube to gently heat mass of steel. Heating rods or infra-red lamps could be inserted into the bore overnight.

The blasting medium should be gentle. An order of hardness, higher to lower Mohs value, is as follows: glass > plastic beads > baking soda > sponge > dry ice.

Removal of blasting media will be more complicated. Selected coating systems will need to cure in an enclosed space with higher humidity. Both primer and topcoat will need to be sprayed onto interior surfaces.

Long-term, epoxy will be degraded by ultra-violet light. Epoxy topcoats are not recommended, but epoxy primer systems may be used.

### **Recommended Products and Vendors**

C.W. Reynolds, Mobile Media Blasting, 404/955.4397 Specializes in sponge blasting.

Eco-Clean, Austell, 770/948-2287 Blasting and coating, but may not have on-site capability. Experienced in vintage auto restoration.

ColdSweep, Utah 801/ 876-5432 Experienced in dry ice blasting of large historic objects, but not local.

EnviroTech Blasting, Atlanta 404/835-2303 Specializes in sponge blasting.

Gator Soda Blasting, Young Harris, 706/897-0316 Specializes in soda blasting. On-site capability. Also can provide "Hold Tight" pre-treatment before applying industrial coatings.

PPG <http://ppgamercoat.us.ppgpmc.com>  
Amercoat systems

Rustoleum Industrial Brands <http://www.rustoleumibg.com/>  
High performance lines of epoxy primers and alkyd and polyurethane topcoats

Sherwin Williams <http://protective.sherwin-williams.com/coatings/>  
Macropoxy primer system with Hi-solids Polyurethane topcoat