Establishing an Alumni Geodatabase Using ArcGIS

(WPAOG "Brick and Paver")

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Geospatial Information Science Program

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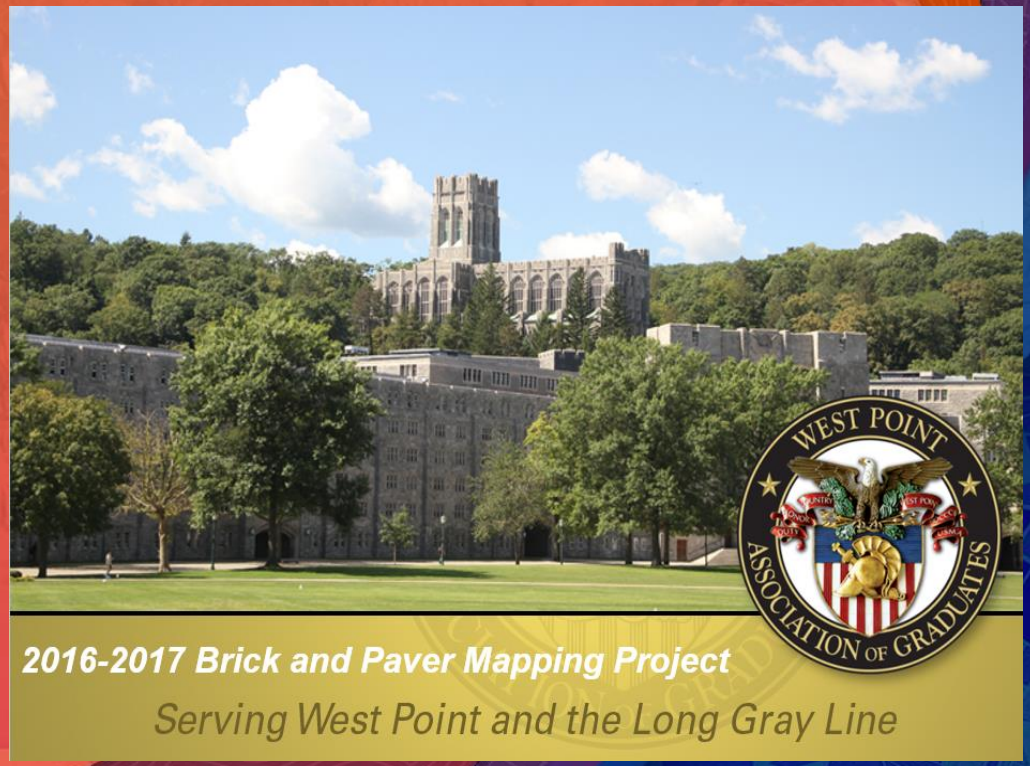


Bricks and Pavers Program (B&PP) Background

- Historically, the B&PP has been tracked using an Excel spreadsheet.
- Several years ago, that spreadsheet was filtered incorrectly. The majority of data was rendered useless.
- The program was moved many times since its inception in 1992.
- With no standard operating procedures (SOP), the data in the system is now either not available or not easily reported.
- When asked about where specific bricks or pavers are located, it is often difficult to determine without physically walking out to the patios and checking.

B&PP Expansion Efforts

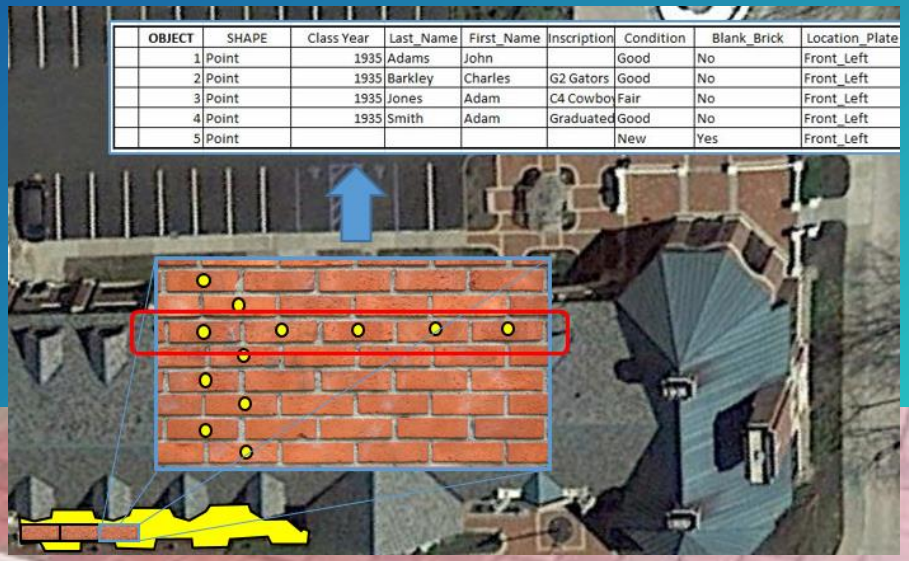
- Originally, only standard 4”x8” red bricks were offered.
- Today, 8”x 8” and 12”x 12” gray granite pavers were introduced. Bricks and pavers are considered donations that support the Herbert Hall Building.
- Costs range from $500-$2,500 and are tax deductible donations. A certificate and tax receipt are sent to the donor for their records.
- Installations occur in the spring for graduation and reunions and in the fall based on the football season and class reunions.

B&PP Expansion Effort: "*A Clarion Call for GIS*"

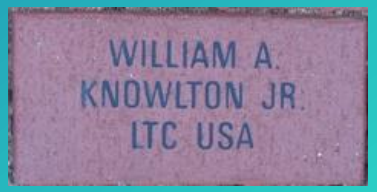
- Since its inception, the layout of the bricks and pavers has been redone several times to accommodate program growth.
- The installation area has expanded to surround the building to accommodate the more than 600 engraved pavers and 4,500 engraved bricks.
- Classes are represented from 1879 to the present. More growth space is being identified
- The Class of 2020 will occupy the final open space.

The GIS Project Using ArcGIS

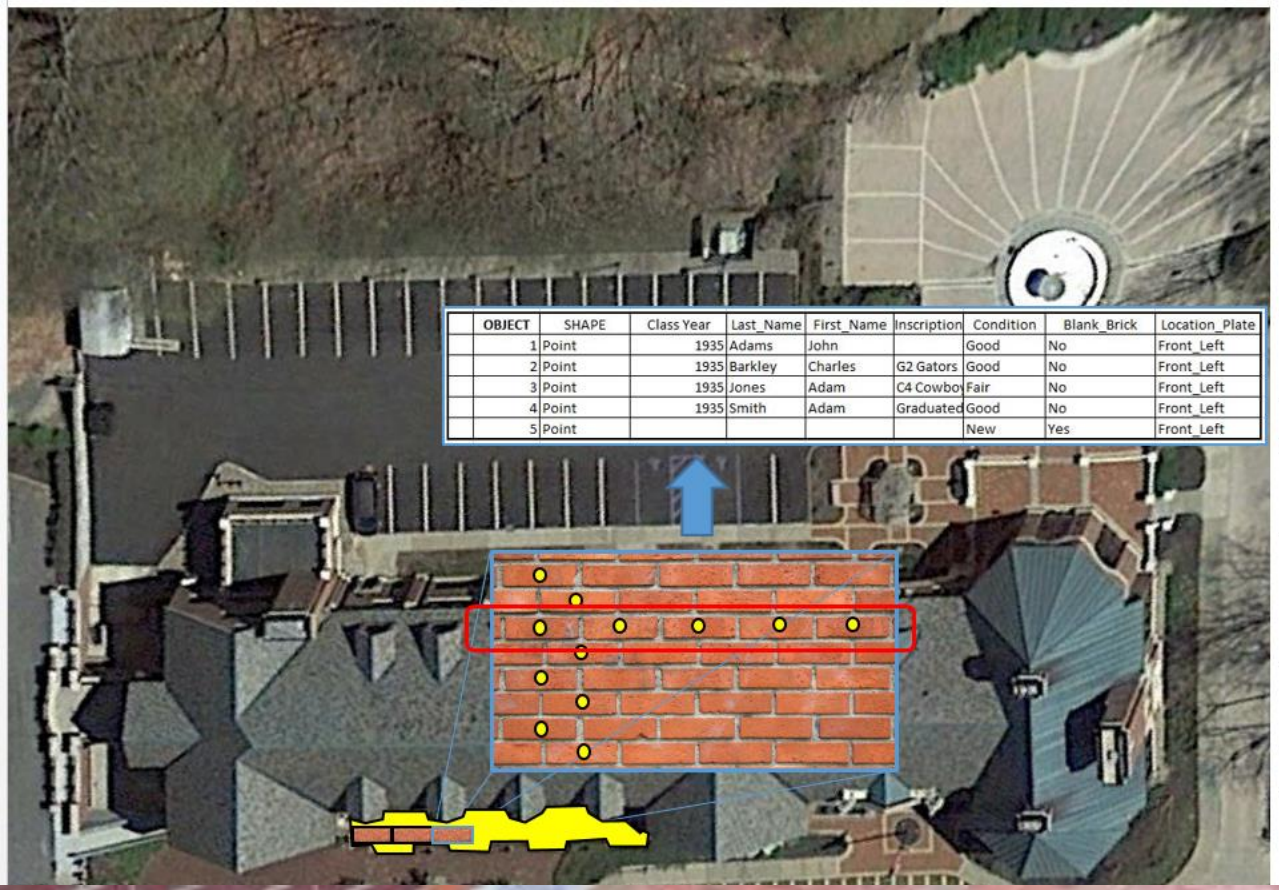
- The West Point Association of Graduates (WPAOG) Brick and Paver Program (B&PP) staff initiates a project with the United States Military Academy's (USMA) Department of Geography and Environmental Engineering to develop an GIS tracking system for the 10,000+ bricks and pavers surrounding the building.
- This project will allow graduates, friends, and family to request brick or paver information from anywhere in the world.
- They will be able to enter key criteria and identity the brick matching that.
- Once they select their own brick or paver they will be able to see an actual photograph of the item.



OBJECT	SHAPE	Class Year	Last_Name	First_Name	Inscription	Condition	Blank_Brick	Location_Plate
1	Point	1935	Adams	John		Good	No	Front_Left
2	Point	1935	Barkley	Charles	G2 Gators	Good	No	Front_Left
3	Point	1935	Jones	Adam	C4 Cowboy	Fair	No	Front_Left
4	Point	1935	Smith	Adam	Graduated	Good	No	Front_Left
5	Point					New	Yes	Front_Left



Establishing the Criteria



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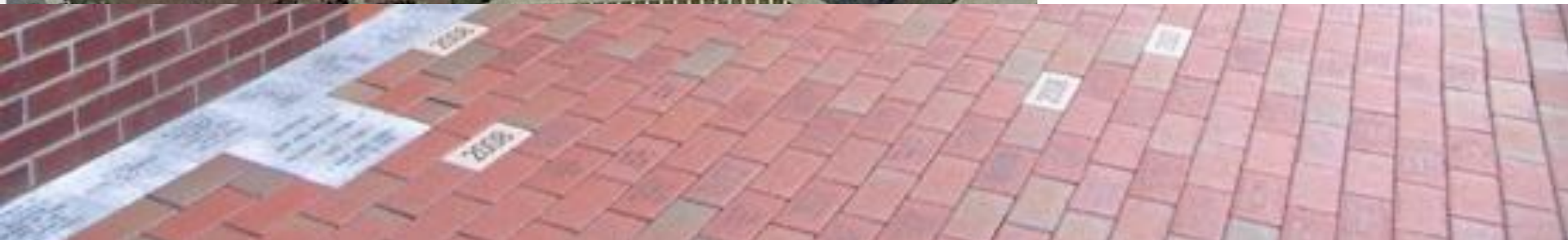
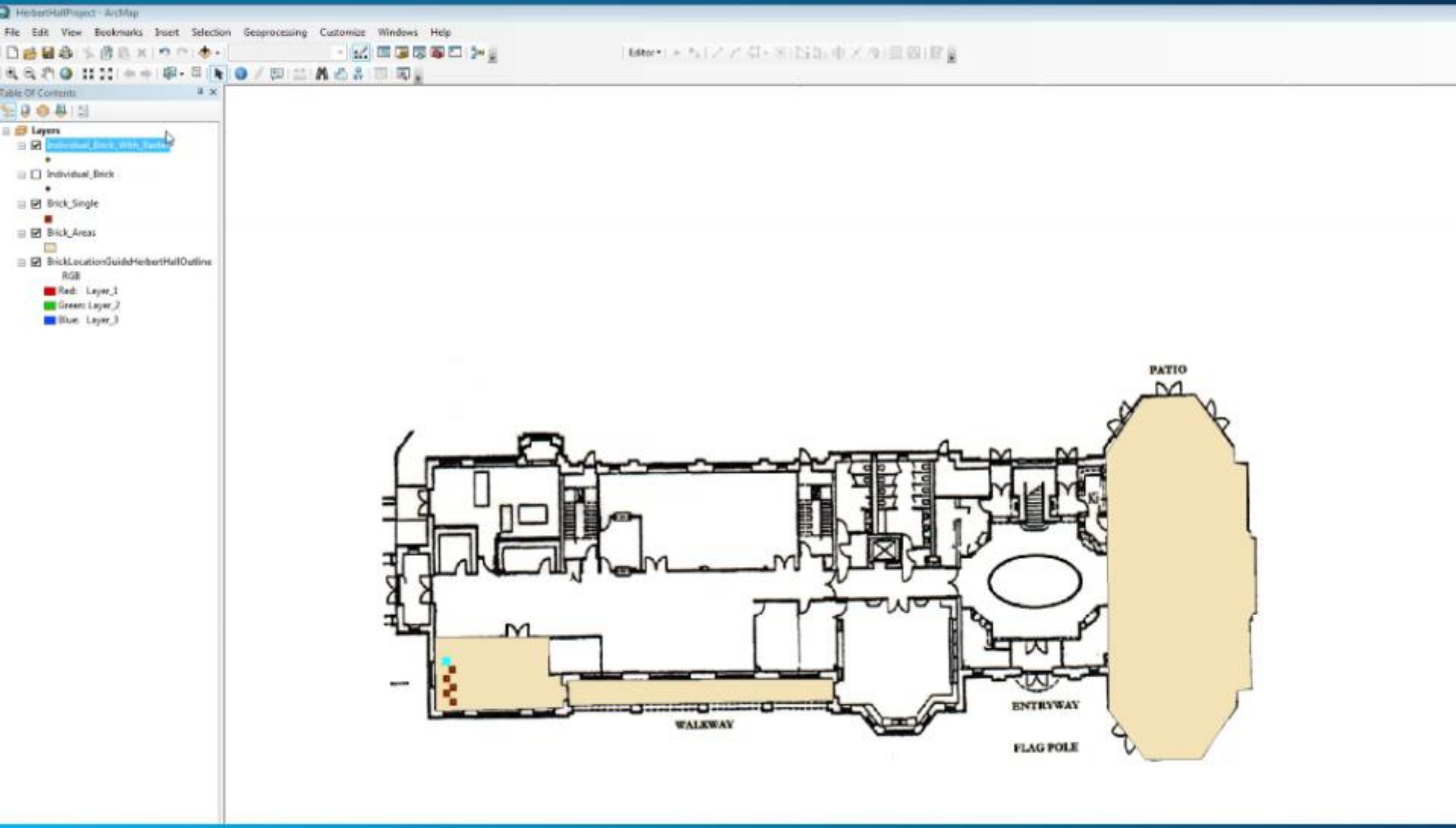
4	Point	1935	Smith	Adam	Graduated	Good	No	Front_Left
5	Point					New	Yes	Front_Left

- Each individual brick or paver as a point file
- Make a large polygon area the size of the Herbert Hall area
- Raster image of each area, make a mosaic and put it into the work area
- Put raster mosaics in place, and consider making a polygon as well.
- Digitize the points for each brick
- Add information to the attribute table as required
- Develop the database, and then link it to the html Graphical User Interface for any queries.
- Each individual brick or paver as a point file
- Add to attribute table as required
- Raster image of each area, make a mosaic and put it into the work area



Video

Prototype Testing: Developing the Data and Checking Locations



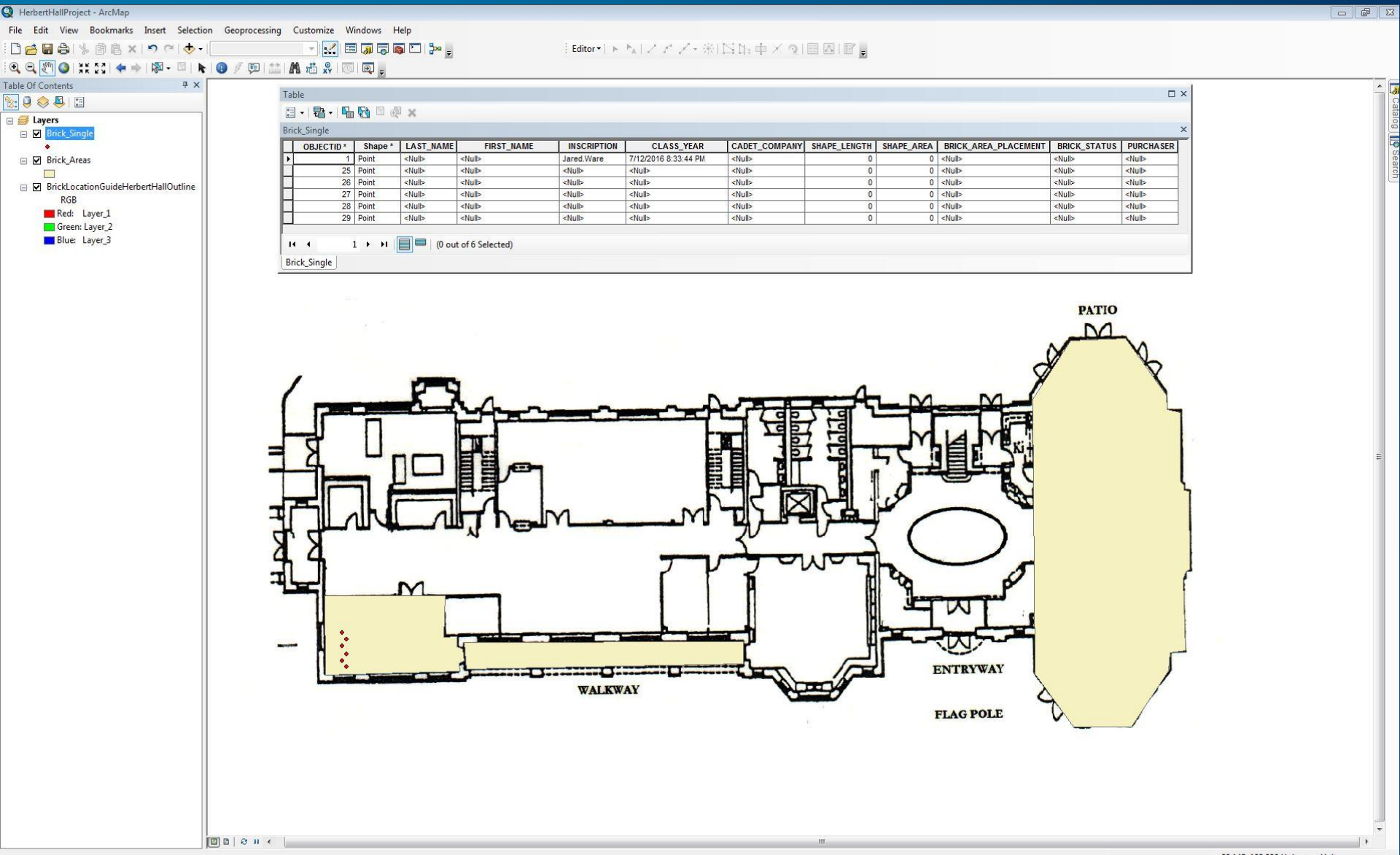
Locating and Identifying The Bricks and Pavers

- Photos were taken of each brick and paver in a grid process
- The Excel database was updated and converted from Excel to a .csv file and then imported into ArcGIS
- Edits were made to the attribute files and to the location of each brick

32 DAVID K. HEWETT: MY ETERNAL LOVE:LOVE CAROL
33 DAVID K. HEWETT: MY DAD MY HERO:LOVE DAWN
34 WILLIAM:HOAGLAND: CO F-2
35 COL G HUBERT: FAMILY 1967:BEAT NAVY
36 SFC S HUSSEY:3/A/1-505PIR:THANKS, MAH
37 AL & HELEN:JANSEN:1967
38 RAY & CHERYL: JONES
39 PAUL J KERN
40 RANDY:KINNARD:CLASS OF '67
41 MR & MRS: WILLIAM P.:KOCH
42 IN MEMORY OF: PAUL RICHARD: KOKONOWSKI
43 GEORGE &: FRAN: KOLESAR
44 ANDREW: &DORIS:KOMBLEVITZ
45 LANDGRAF: JOHN '67: JAY '02
46 COLD WAR: VICTORS: (RVN ROK FRG)
47 IN MEMORY OF:MIKE LASCHER: 1945-2000
48 COL HARTMUT: & BARBARA: LAU
49 BOB & RONI: LENZ
50 FREED &: VICTORIA:LOWREY
51 EVERETT &: MARGARET: LUCAS
52 MACPHERSON:1 800- BEAT IRS
53 HONORING MY: DEAR PARENTS: ED MARION'67
54 IN MEMORY OF: LARRY MARLIN
55 C B MEYER 09:C R MEYER 37:C R MEYER 67
56 KARL W. MILLS: IN LOVING:MEMORY-CAROL
57 COL & MRS: GERALD J. MOLNAR
58 DON & LESLIE: NELSON
59 BARRY & PAM:NICKERSON: FOLLOW JESUS

	A	B	C	D	E	F	G	H	I	J	K	L
1	**2016 Brick and Paver Program**											
2	Cons ID	Cons Code	Cons Last Name	Cons Name	Cons First Name	Project Name	When Donated/ Original Order Da	Section	Status (New or replacement)	Date Installed	Date Replaced	Donor
3	2785-1879		Cruse	Thomas Cruse	Thomas	Brick & Paver Program		1879				
4	2802-1879		Lewis	Thomas Jefferson Lewis	Thomas	Brick & Paver Program		1879				
5	2873-1880		Goode	George W Goode	George	Brick & Paver Program		1880				
6	2932-1882		Burr	Edward Burr	Edward	Brick & Paver Program		1882				
7	2944-1882 5268-1914		Treat	Charles G. Treat Joseph B Treat	Charles, Joseph	Brick & Paver Program	3/16/1993	1882				14564-1945:Archibald Arnold Jr.
8	3432-1891		Hines	John Hines	John	Brick & Paver Program		1891				
9	3513-1893		Kutz	Charles Kutz	Charles	Brick & Paver Program		1893				
10	3610-1894		Wells	Briant Wells	Briant	Brick & Paver Program	2/24/1993	1894	Replaced		6/1/2007	8264-1928: Thomas J. Wells
11	3624-1895		White	Herbert White	Herbert	Brick & Paver Program		1895				
12	3968-1900		Amos	Frank Amos	Frank	Brick & Paver Program	3/2/1993	1900	Replaced		6/1/2007	10994-1937:Arthur K. Amos
13	4070-1902		Longley	Francis Longley	Francis	Brick & Paver Program	4/5/1993	1902	Replaced		6/1/2007	602459:Mrs. Janet M. Carsey
14	4135-1903		Adams	Lewis Adams	Lewis	Brick & Paver Program	3/2/1993	1903	New			11782-1939:Milton B. Adams
15	4227-1904		McIlroy	James McIlroy	James	Brick & Paver Program		1904				
16	4283-1904		Drysdale	Walter S. Drysdale Walter S Drysdale Jr	Walter	Brick & Paver Program		1904				
17	4246-1904		Stilwell	Joseph Stilwell	Joseph	Brick & Paver Program		1904				
18	4246-1904		Stilwell	Joseph Stilwell	Joseph	Brick & Paver Program		1904				
19	4463-1906		Burleson	Richard Burleson	Richard	Brick & Paver Program		1906				
20	4459-1906		Ardery	Edward Ardery	Edward	Brick & Paver Program		1906				
21	4457-1906		Daley	Edmund Daley	Edmund	Brick & Paver Program		1906				
22	4510-1906		Kieffer	Pierre Kieffer	Pierre	Brick & Paver Program	3/8/1993	1906	Replaced		6/1/2006	10470-1936:Pierre V. Kieffer
23	4525-1906		Selton	Hugo Selton	Hugo	Brick & Paver Program		1906				
24	4569-1907		Chilton	Alexander Chilton	Alexander	Brick & Paver Program		1907				
25	4556-1907		Cruse	Fred Cruse	Fred	Brick & Paver Program		1907				
26	4779-1909		Crissy	Dana Crissy	Dana	Brick & Paver Program	2/25/1993	1909	Replaced		6/1/2007	626182:Mrs. David X. Angluin
27	4771-1909		Erlenkotter	Herman Erlenkotter	Herman	Brick & Paver Program		1909				
28	4850-1909		Simpson	William Simpson	William	Brick & Paver Program	8/23/1993	1909				14564-1945:Mrs. William Simpson
29	4758-1909		North	Earl North	Earl	Brick & Paver Program		1909				
30	5077-1912 14564-1945 29964-1971		Arnold	Archibald Arnold Sr. Archibald Arnold Jr. Arnold Archibald III	Archibald	Brick & Paver Program	3/16/1993	1912				14564-1945: Archibald Arnold Jr.
31	5246-1914		Burr	William Burr	William	Brick & Paver Program		1914				
32	5216-1914		Cowgill	Allen Cowgill	Allen	Brick & Paver Program		1914				
33	5265-1914		Haskell	James Haskell	James	Brick & Paver Program	3/9/1993	1914	Replaced		6/1/2007	11339-1939:John S. Samuel
34	5445-1915		Finley	Charles Finley	Charles	Brick & Paver Program		1915				
35	5383-1915		Summers	Iverson Summers	Iverson	Brick & Paver Program		1915				
36	5649-1917		Beurket	George Beurket	George	Brick & Paver Program		April 1917				
37	5739-1917		Helm	Malcolm Helm	Malcolm	Brick & Paver Program		April 1917				
38	5615-1917		Schroeder	Henry Schroeder	Henry	Brick & Paver Program		April 1917				
39	5707-1917		Sinkler	Thomas Sinkler	Thomas	Brick & Paver Program		April 1917				
40	5760-1917		Buechler	Theodore Buechler	Theodore	Brick & Paver Program		August 1917				
41	5789-1917 20208-1955		Hasbrouck	Robert Hasbrouck Sr. Robert Hasbrouck Jr.	Robert	Brick & Paver Program	5/3/1993	August 1917				20208-1955: Robert Hasbrouck Jr

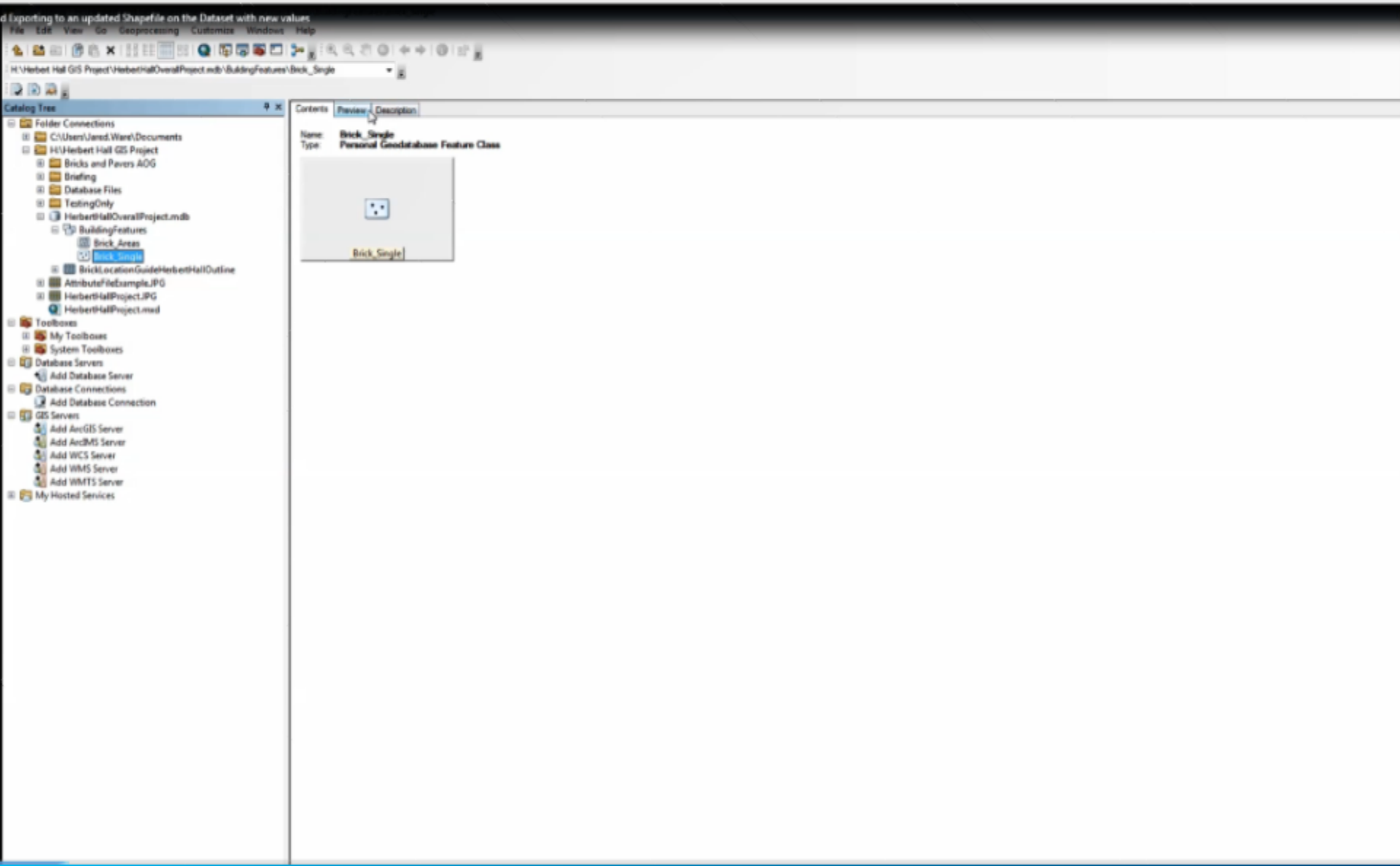
Creating the Feature Class from the Criteria



OBJECTID *	Shape *	LAST_NAME	FIRST_NAME	INSCRIPTION	CLASS_YEAR	CADET_COMPANY	SHAPE_LENGTH	SHAPE_AREA	BRICK_AREA_PLACEMENT	BRICK_STATUS	PURCHASER
1	Point	<Null>	<Null>	Jared.Ware	7/12/2016 8:33:44 PM	<Null>	0	0	<Null>	<Null>	<Null>
25	Point	<Null>	<Null>	<Null>	<Null>	<Null>	0	0	<Null>	<Null>	<Null>
26	Point	<Null>	<Null>	<Null>	<Null>	<Null>	0	0	<Null>	<Null>	<Null>
27	Point	<Null>	<Null>	<Null>	<Null>	<Null>	0	0	<Null>	<Null>	<Null>
28	Point	<Null>	<Null>	<Null>	<Null>	<Null>	0	0	<Null>	<Null>	<Null>
29	Point	<Null>	<Null>	<Null>	<Null>	<Null>	0	0	<Null>	<Null>	<Null>

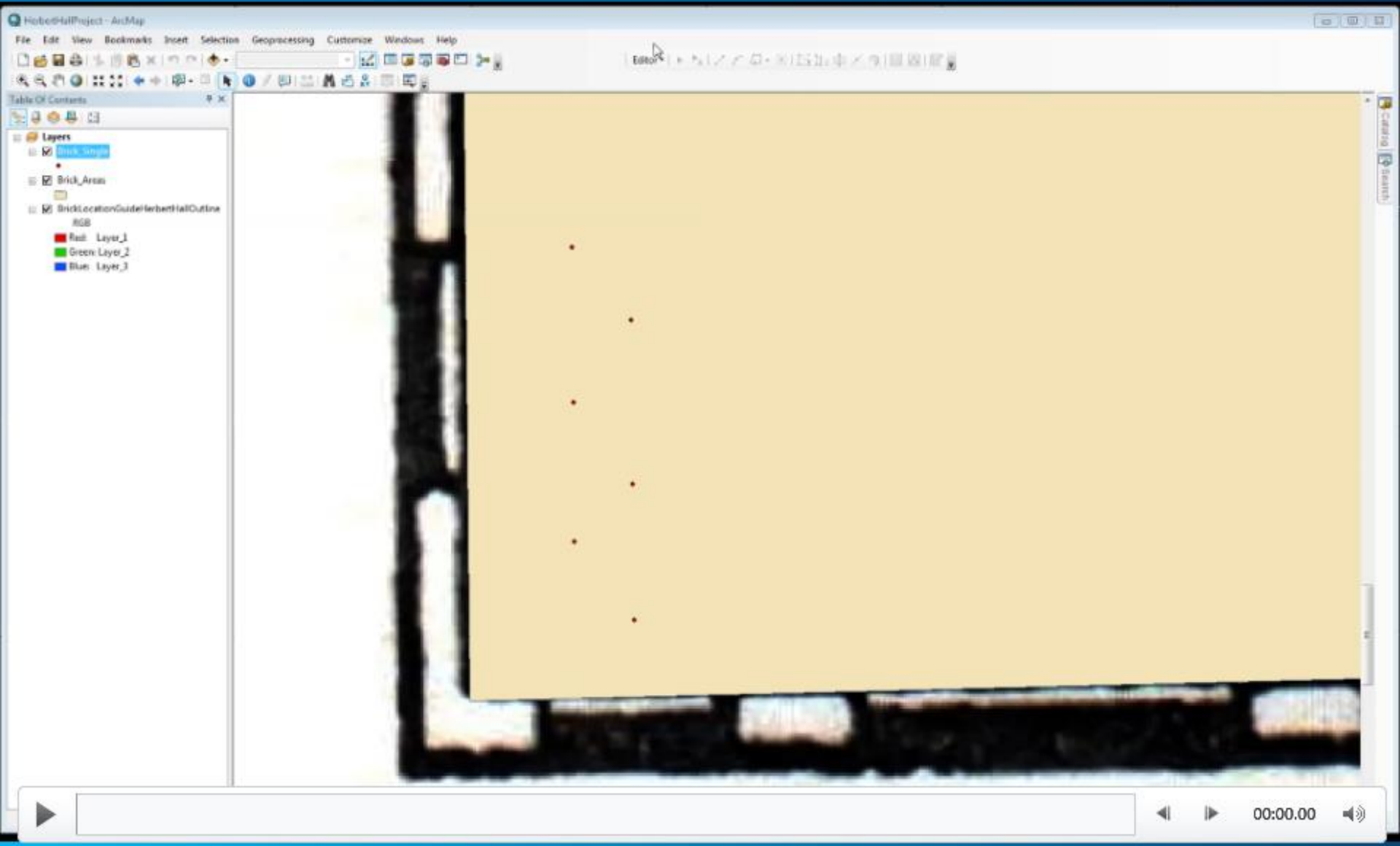
Video

Prototype: Updating the Geodatabase According to the Criteria



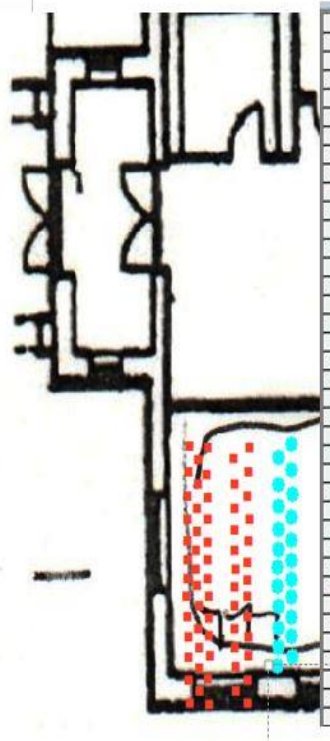
Video

Prototype Testing: Adding to Image to the Database



Editing the Data by Graduation Class and Placing the Bricks

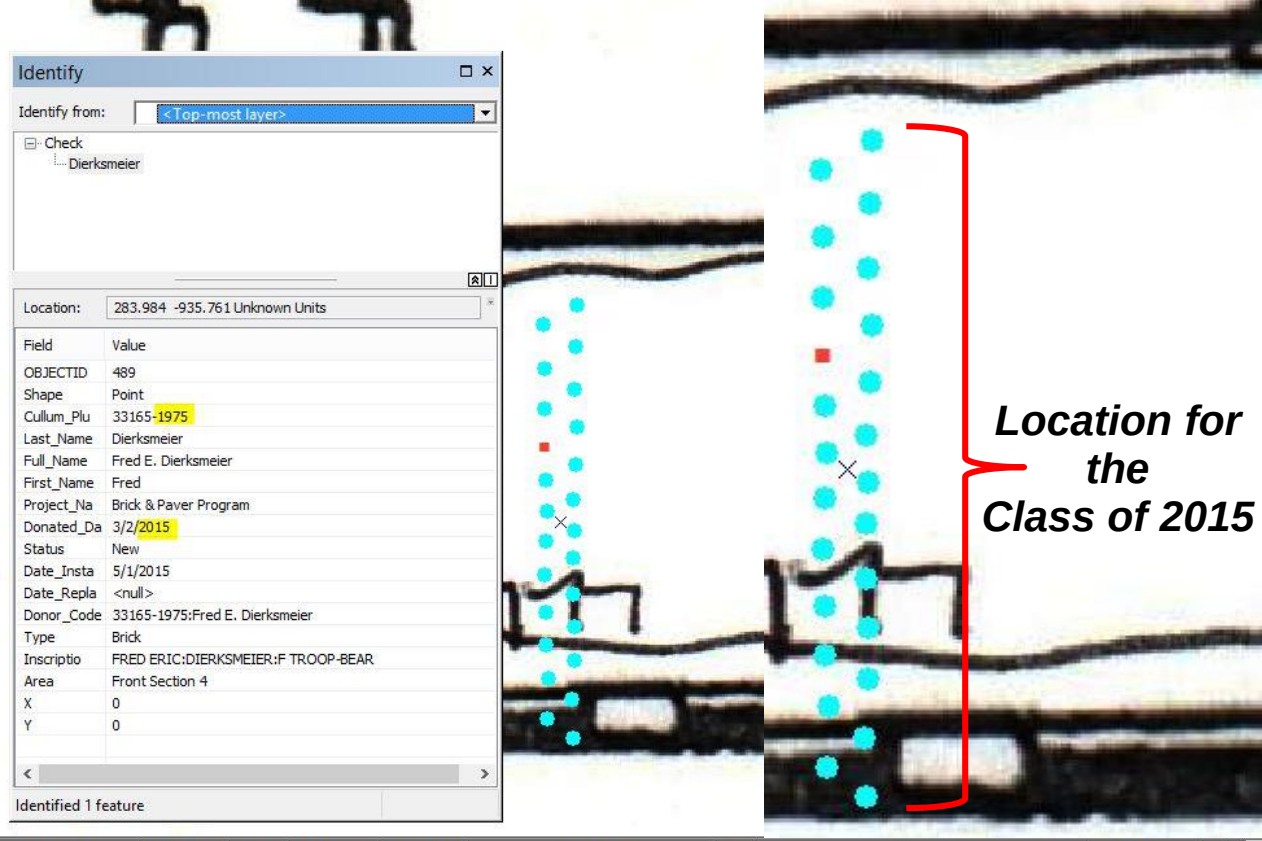
- Matching the brick on the patio to the information in the database
- Make sure the Editing mode has been started
- Open Attribute Table and select a record (it is now highlighted)
- Check it against the brick photos and the move it into the correct position in relation to the bricks labeled for each graduating class
- Continue the process and check for any inconsistencies in the database



OBJECTID *	Shape *	Cullum_Plu	Last_Name	Full_Name	First_Name	Project_Na	Donated_Da	Status	Date_Insta	Date_Repla	Donor_Code	Type	Inscriptio	Area	X	Y
451	Point	69934-2013	Peguillan	Brain C. Peguillan	Brian	Brick & Paver Program	3/11/2013	New	5/1/2013	<Nul>	447705:John P. Peguillan	Brick	2LT PEGUILLAN:DEFENDING:THE DREAM	Front Section 4	0	0
452	Point	69979-2013	Reichert	Brett A. Reichert	Brett	Brick & Paver Program	3/1/2013	New	5/1/2013	<Nul>	922876:Tamara S. Reichert	Brick	BRETT A. :REICHERT:2013	Front Section 4	0	0
454	Point	70014-2013	Rupert	Bryan E. Rupert	Bryan	Brick & Paver Program	2/27/2013	New	5/1/2013	<Nul>	901067:John F. Rupert	Brick	BRYAN E RUPERT:TROUT RUN, PA:I-3 ICEMAN	Front Section 4	0	0
455	Point	70036-2013	Sbarbaro	Sara K. Sbarbaro	Sara	Brick & Paver Program	12/18/2012	New	5/1/2013	<Nul>	906272:John A. Sbarbaro	Brick	SARA:SBARBARO:CLASS 2013	Front Section 4	0	0
456	Point	70114-2013	Sullivan	Dana L. Sullivan	Dana	Brick & Paver Program	1/17/2013	New	5/1/2013	<Nul>	689621:Stephanie Sullivan	Brick	DANA L. :SULLIVAN A4:TEXAS 2013	Front Section 4	0	0
457	Point	70142-2013	Todd	John R. Todd	John	Brick & Paver Program	1/30/2013	New	5/1/2013	<Nul>	901129:John C. Todd	Brick	JOHN R. TODD:DALLAS, TEXAS:INFANTRY 2013	Front Section 4	0	0
458	Point	70164-2013	VanBuren	Schuyler P. VanBuren	Schuyler	Brick & Paver Program	1/30/2013	New	5/1/2013	<Nul>	905842:Denise D. VanBuren	Brick	SCHUYLER P.:VANBUREN:2013	Front Section 4	0	0
453	Point	70277-2013	Rivera	Anthony M. Rivera	Anthony	Brick & Paver Program	1/31/2013	New	5/1/2013	<Nul>	906372:Anthnoy Rivera	Brick	ANTHONY:"SPARTACUS":RIVERA	Front Section 4	0	0
460	Point	70310-2014	Ange	Walter J. Ange	Walter	Brick & Paver Program	2/20/2014	New	5/1/2014	<Nul>	909596:Jeffrey N. Ange	Brick	WALTER :JEFFREY:ANGE	Front Section 4	0	0
461	Point	70429-2014	Caruso	Anthony S. Caruso	Anthony	Brick & Paver Program	2/28/2014	New	5/1/2014	<Nul>	909695:Frank S. Caruso	Brick	ANTHONY S.:CARUSO:2014 I-1	Front Section 4	0	0
462	Point	70527-2014	De Rosa	Philip M. De Rosa	Philip	Brick & Paver Program	2/21/2014	New	5/1/2014	<Nul>	685877:Paul A. De Rosa	Brick	PHILIP DE ROSA:BLUE SKIES: 2014	Front Section 4	0	0
463	Point	70537-2014	Dixon	Chelsea R. Dixon	Chelsea	Brick & Paver Program	1/22/2014	New	5/1/2014	<Nul>	910191:Huw T. Dixon	Brick	CHELSEA R:DIXON 2014:GO COWBOYS!	Front Section 4	0	0
464	Point	70541-2014	Dore	Timothy A. Dore	Timothy	Brick & Paver Program	2/19/2014	New	5/1/2014	<Nul>	910519:Ted A. Dore	Brick	GO ARMY!:TIM DORE:USMA 2014	Front Section 4	0	0
465	Point	70542-2014	Doty	Dylan B. Doty	Dylan	Brick & Paver Program	2/27/2014	New	5/1/2014	<Nul>	913013:Patricia J. Doty	Brick	DYLAN B DOTY:COMPANY A-1:INFANTRY	Front Section 4	0	0
466	Point	70544-2014	Downing	Sara M. Downing	Sara	Brick & Paver Program	2/28/2014	New	5/1/2014	<Nul>	911600:Stephen E. Downing	Brick	SARA DOWNING:USMA 2014:Ps. 66 8-12	Front Section 4	0	0
467	Point	70554-2014	E-Nunu	Teminiro T. E-Nunu	Teminiro	Brick & Paver Program	3/11/2014	New	5/1/2014	<Nul>	912853:Mac E-Nunu	Brick	HONOR & GLORY:BELONGS TO GOD:E-NUNU FAMILY	Front Section 4	0	0
468	Point	70752-2014	Johnson	Caleb E. Johnson	Caleb	Brick & Paver Program	2/25/2014	New	5/1/2014	<Nul>	688550:Russell Johnson	Brick	CALEB:ERK:JOHNSON '14	Front Section 4	0	0
469	Point	70770-2014	Kellogg	Tyler J. Kellogg	Tyler	Brick & Paver Program	1/27/2014	New	5/1/2014	<Nul>	664405:Joseph K.K. Kellogg	Brick	TYLER JOSEPH:KELLOGG	Front Section 4	0	0
470	Point	70873-2014	Machinski	Scott V. Machcinski	Scott	Brick & Paver Program	1/22/2014	New	5/1/2014	<Nul>	928130:William Pfeifer	Brick	SCOTT:MACHCINSKI:CLASS OF 2014	Front Section 4	0	0
481	Point	70880-2014	Malinda	James P. Malinda	James	Brick & Paver Program	4/16/2014	New	5/1/2014	<Nul>	911552:Paul F. Malinda	Brick	JAMES PAUL:MALINDA:CLASS OF 2014	Front Section 4	0	0
471	Point	70900-2014	Mathieson	Greg E. Mathieson	Greg	Brick & Paver Program	1/23/2014	New	5/1/2014	<Nul>	907935:Greg E. Mathieson	Brick	GREG E. MATHESON JR: H-1 1ST REG	Front Section 4	0	0
472	Point	70923-2014	McKendree	Carson F. McKendree	Carson	Brick & Paver Program	2/7/2014	New	5/1/2014	<Nul>	912906:Lisa McKendree	Brick	CARSON F.:McKENDREE:"Follow Me"	Front Section 4	0	0
473	Point	70930-2014	McNamara	Kelly R. McNamara	Kelly	Brick & Paver Program	2/28/2014	New	5/1/2014	<Nul>	911206:James A. McNamara	Brick	KELLY:RAIN:McNAMARA	Front Section 4	0	0
474	Point	70966-2014	Moore	Brandon J. Moore	Brandon	Brick & Paver Program	3/10/2014	New	5/1/2014	<Nul>	909572:Bruce J. Moore	Brick	CADET CAPT:BRANDON MOORE" E3 2014	Front Section 4	0	0
475	Point	71030-2014	Pashko	Steven T. Pashko	Steven	Brick & Paver Program	2/28/2014	New	5/1/2014	<Nul>	909995:Gary T. Pashko	Brick	STEVEN :PASHKO	Front Section 4	0	0
476	Point	71076-2014	Reece	Trent J. Reece	Trent	Brick & Paver Program	3/4/2014	New	5/1/2014	<Nul>	909983:Randall K. Reece	Brick	TRENT J. REECE:"14"PRO PATRIA	Front Section 4	0	0
477	Point	71084-2014	Rice	Gregory B. Rice	Gregory	Brick & Paver Program	2/28/2014	New	5/1/2014	<Nul>	909938:Gregory B. Schmidt	Brick	GREG RICE JR:C2 ADA<3GIKF:Phil 3:13-14	Front Section 4	0	0
478	Point	71146-2014	Schmidt	Havana S. Schmidt	Havana	Brick & Paver Program	3/5/2014	New	5/1/2014	<Nul>	909772:James K. Schmidt	Brick	HAVANA STAR:SCHMIDT:GATOR 4 LIFE	Front Section 4	0	0
479	Point	71199-2014	Steckler	Jake A. Steckler	Jake	Brick & Paver Program	2/25/2014	New	5/1/2014	<Nul>	909898:Robert E. Steckler	Brick	STECKLER:FAMILY:FOREVER ONE TEAM	Front Section 4	0	0
480	Point	71372-2014	Tengito	Nicholas A. Tengito	Nicholas	Brick & Paver Program	1/27/2014	New	5/1/2014	<Nul>	912776:Oscar Tengtio	Brick	NICK TENGTIO:"TANK":I-1 2014	Front Section 4	0	0
482	Point	71464-2015	Beauregard	Patrick F. Beauregard	Patrick	Brick & Paver Program	3/3/2015	New	5/1/2014	<Nul>	916275:Jeffrey Beauregard	Brick	PATRICK F:BEAUREGARD:ROOTHAWG	Front Section 4	0	0
502	Point	71464-2015	Beauregard	Patrick F. Beauregard	Patrick	Brick & Paver Program	3/3/2015	New	5/1/2015	<Nul>	916275:Jeffrey Beauregard	Brick	PATRICK F:BEAUREGARD:A ROOTHAWG	Front Section 4	0	0
483	Point	71470-2015	Bermudez	Gabriella J. Bermudez	Gabriella	Brick & Paver Program	12/11/2014	New	5/1/2015	<Nul>	917352:Beatrice Boeglin	Brick	GABRELLA J.:BERMUDEZ:2015	Front Section 4	0	0
484	Point	71499-2015	Boyland	Joseph F. Boyland	Joseph	Brick & Paver Program	2/20/2015	New	5/1/2015	<Nul>	916323:Joseph F. Boyland	Brick	JOSEPH F.:BOYLAND IV:F-3:2015	Front Section 4	0	0
486	Point	71524-2015	Burnstad	Brianna C. Burnstad	Brianna	Brick & Paver Program	2/24/2015	New	5/1/2015	<Nul>	21848-1958:John M. Daley	Brick	BRIANNA C.:BURNSTAD: '06 '31 '58	Front Section 4	0	0
488	Point	71561-2015	Claxton	Andrew R. Claxton	Andrew	Brick & Paver Program	10/23/2014	New	5/1/5015	<Nul>	916403:Roger Claxton	Brick	ANDREW REID:CLAXTON:A4 SCALPEM	Front Section 4	0	0
491	Point	71678-2015	Ford	Andrew N. Ford	Andrew	Brick & Paver Program	2/20/2015	New	5/1/2015	<Nul>	916534:Joseph M. Ford	Brick	ANDREW:NICHOLAS:FORD	Front Section 4	0	0

Right Said Fred?

- GIS data management
- One brick is placed in the incorrect location for a particular class
- Purchased in 2015, but for the Class of 1975.
- Report the information and log the inconsistency



OBJECTID *	Shape *	Cullum_Plu	Last_Name	Full_Name	First_Name	Project_Na	Donated_Da	Status	Date_Insta	Date_Repla	Donor_Code	Type	Inscriptio	Area	X	Y
317	Point	64269-2008	Clark	Scott A. Clark	Scott	Brick & Paver Program	12/9/2010	New	5/1/2011	<Null>	914006:Brent J. Clark	Brick	SCOTT CLARK:G-3 MICHIGAN:WRESTLING	Front Section 3	0	0
488	Point	71561-2015	Claxton	Andrew R. Claxton	Andrew	Brick & Paver Program	10/23/2014	New	5/1/5015	<Null>	916403:Roger Claxton	Brick	ANDREW REID:CLAXTON:A4 SCALPEM	Front Section 4	0	0
56	Point	56733-2000	Coats	Jason A.P. Coats	Jason	Brick & Paver Program	6/6/2000	Replaced	8/1/2000	6/1/2007	647300:Allen A. Coats	Brick	JASON COATS:STEWARTSTOWN:NH	Front Section 3	0	0
410	Point	67307-2011	Cohick	Martin Cohick	Martin	Brick & Paver Program	3/2/2011	New	5/1/2011	<Null>	639426:Donald M. Cohick	Brick	MARTIN COHICK:WITH LOVE:MOM & DAD	Front Section 4	0	0
14	Point	55807-1999	Cole	Geoffrey J. Cole	Geoffrey	Brick & Paver Program	5/13/1999	Replaced	8/1/1999	6/1/2007	646291:Arthur E. Cole	Brick	GEOFFREY:JASON:COLE	Front Section 2	0	0
213	Point	61481-2005	Colgary	Anthony F. Colgary	Anthony	Brick & Paver Program	5/27/2005	Replaced	8/1/2005	6/1/2007	660189:Anthony F. Colgary	Brick	CHIP COLGARY:28 MAY 2005	Front Section 3	0	0
152	Point	59596-2003	Collins	Matthew R. Collins	Matthew	Brick & Paver Program	5/16/2003	Replaced	8/1/2003	6/1/2007	655177:Keith J. Collins	Brick	MATT COLLINS:'03/G3/#10BB:*DETERMINED*	Front Section 3	0	0
258	Point	62398-2006	Collins	David T. Collins	David	Brick & Paver Program	3/16/2006	New	8/1/2006	<Null>	661622:Thomas D. Collins	Brick	DAVID THOMAS:COLLINS - 06:VERO BEACH FL	Front Section 3	0	0
314	Point	64280-2008	Colvin	Alan S. Colvin	Alan	Brick & Paver Program	3/3/2008	New	5/1/2008	<Null>	664547:William D. Colvin	Brick	ALAN:SHUDA:COLVIN	Front Section 3	0	0
535	Point	72589-2016	Combs	Dalton J. Combs	Dalton	Brick & Paver Program	3/1/2016	New	5/1/2016	<Null>	921879:David Combs	Brick	DALTON JA:COMBS:C1-2016-INF	Front Section 4	0	0
191	Point	60502-2004	Concannon	Andrew M. concannon	Andrew	Brick & Paver Program	6/7/2004	Replaced	8/1/2004	6/1/2007	656739:Patrick J. Concannon	Brick	ANDREW M:CONCANNON:G1 2004	Front Section 3	0	0
515	Point	72592-2016	Connolly	Shane W. Connolly	Shane	Brick & Paver Program	11/23/2015	New	5/1/2016	<Null>	920203:John Connolly	Brick	S.W.CONNOLLY:A-1 AVIATION:BHAW	Front Section 4	0	0
442	Point	69402-2013	Copeland	Daniel J. Copeland	Daniel	Brick & Paver Program	2/5/2013	New	5/1/2013	<Null>	906387:William J. Copeland	Brick	DANIEL JOHN:COPELAND	Front Section 4	0	0
16	Point	55821-1999	Corliss	Christopher D. Corliss	Christopher	Brick & Paver Program	12/19/2006	New	6/1/2007	<Null>	55821-1999:Christopher D. Corliss	Brick	CHRISTOPHER:D. CORLISS:PSALM 144:1	Front Section 2	0	0
519	Point	72602-2016	Coughlan	Matthew K. Coughlan	Matthew	Brick & Paver Program	2/29/2016	New	5/1/2016	<Null>	920087:Kevin M. Coughlan	Brick	MATTHEW K:COUGHLAN:2016 MAV	Front Section 4	0	0
315	Point	64302-2008	Crabtree	Jason G. Crabtree	Jason	Brick & Paver Program	3/6/2008	New	5/1/2008	<Null>	664630:Glen A. Crabtree	Brick	JASON GLEN:CRABTREE:1ST CAPTAIN	Front Section 3	0	0
99	Point	57719-2001	Crain	John K. Crain	John	Brick & Paver Program	9/22/2014	New	5/1/2015	<Null>	648658:Kathleen H. Crain	Brick	JOHN K CRAIN:ARKANSAS:2001	Front Section 3	0	0
292	Point	63590-2007	Cullen	Sara M. Cullen	Sara	Brick & Paver Program	2/12/2015	New	5/1/2015	<Null>	662548:William B. Knutson	Brick	IN MEMORY OF:SARA KNUTSUN:KIA 03/11/13	Front Section 3	0	0
293	Point	63590-2007	Cullen	Sara M. Cullen	Sara	Brick & Paver Program	2/6/2016	New	5/1/2016	<Null>	Corbin Forum	Brick	KNUTSON:CULLEN, SARA:DIED AFG 2013	Front Section 3	0	0
153	Point	59616-2003	Cunningham	Craig R. Cunningham	Craig	Brick & Paver Program	6/3/2003	Replaced	8/1/2003	6/1/2007	655204:C.R. Cunningham	Brick	CRAIG R.:CUNNINGHAM:G-1 & FAMILY	Front Section 3	0	0
17	Point	55842-1999	Day	Joseph P. Day	Joseph	Brick & Paver Program	6/3/1999	Replaced	8/1/1999	6/1/2007	646334:Joseph H. Day	Brick	IN HONOR OF:JOSEPH P DAY:MOM DAD &KC	Front Section 2	0	0
389	Point	66291-2010	De Rosa	Alexander De Rosa	Alexander	Brick & Paver Program	1/12/2010	New	5/1/2010	<Null>	685877:Paul A. De Rosa	Brick	ALEX DE ROSA:GO DUKES!:2010	Front Section 4	0	0
462	Point	70527-2014	De Rosa	Philip M. De Rosa	Philip	Brick & Paver Program	2/21/2014	New	5/1/2014	<Null>	685877:Paul A. De Rosa	Brick	PHILIP DE ROSA:BLUE SKIES: 2014	Front Section 4	0	0
242	Point	62067-2005	Deaton	Kimberly A. Deaton	Kimberly	Brick & Paver Program	3/21/2006	Replaced	8/1/2006	6/1/2007	62067-2005:Kimberly A. Deaton	Brick	KIMBERLY:SOER	Front Section 3	0	0
361	Point	65297-2009	Dedmon	Matthew T. Dedmon	Matthew	Brick & Paver Program	2/24/2009	New	5/1/2009	<Null>	37134-1979:James F. Dedmon	Brick	MATTHEW:DEDMON:E-1 2009	Front Section 4	0	0
362	Point	65298-2009	Del Castillo	Dimitri A. Del Castillo	Dimitri	Brick & Paver Program	3/4/2009	New	5/1/2009	<Null>	665322:Carlos E. Del Castillo	Brick	DIMITRI:ALEJANDRO:DEL CASTILLO	Front Section 4	0	0
192	Point	60552-2004	Devine	Timothy S. Devine	Timothy	Brick & Paver Program	5/12/2004	Replaced	8/1/2004	6/1/2007	654540:Hugh A. Devine	Brick	TIMOTHY:SAMUEL:DEVINE	Front Section 3	0	0
81	Point	57751-2001	Dickerson	Robert W. Dickerson	Robert	Brick & Paver Program	8/11/2006	New	6/1/2007	<Null>	650258:Robert F. Dickerson	Brick	ROBERT W:DICKERSON:ST MARK'S GRP	Front Section 3	0	0
489	Point	33165-1975	Dierksmeier	Fred E. Dierksmeier	Fred	Brick & Paver Program	3/2/2015	New	5/1/2015	<Null>	33165-1975:Fred E. Dierksmeier	Brick	FRED ERIC:DIERKSMEIER:F TROOP-BEAR	Front Section 4	0	0
463	Point	70537-2014	Dixon	Chelsea R. Dixon	Chelsea	Brick & Paver Program	1/22/2014	New	5/1/2014	<Null>	910191:Huw T. Dixon	Brick	CHELSEA R:DIXON 2014:GO COWBOYS!	Front Section 4	0	0
490	Point	72413-2015	Doehling	Shelbi D. Doehling	Shelbi	Brick & Paver Program	11/3/2014	New	5/1/2015	<Null>	916468:John M. Doehling	Brick	SHELBI D.:DOEHLING:MANHATTAN KS	Front Section 4	0	0
193	Point	60558-2004	Dolan	Michael E. Dolan	Michael	Brick & Paver Program	5/28/2004	Replaced	8/1/2004	6/1/2007	656892:Edward A. Dolan	Brick	MIKE E DOLAN:GG-3 GOPHERS:MOM & DAD	Front Section 3	0	0
464	Point	70541-2014	Dore	Timothy A. Dore	Timothy	Brick & Paver Program	2/19/2014	New	5/1/2014	<Null>	910519:Ted A. Dore	Brick	GO ARMY!:TIM DORE:USMA 2014	Front Section 4	0	0
465	Point	70542-2014	Doty	Dylan B. Doty	Dylan	Brick & Paver Program	2/27/2014	New	5/1/2014	<Null>	913013:Patricia J. Doty	Brick	DYLAN B DOTY:COMPANY A-1:INFANTRY	Front Section 4	0	0

Twice As Nice?

- Two entries are created for one person after converting the Excel file
- Were 2 bricks actually purchased, or is it a data entry error?
- There are 2 bricks with similar inscriptions!

	OBJECTID *	Shape *	Cullum_Plu	Last_Name	Full_Name	First_Name	Project_Na	Donated_Da	Status	Date_Insta	Date_Repla	Donor_Code	Type	Inscriptio	Area	X	Y
	462	Point	70527-2014	De Rosa	Philip M. De Rosa	Philip	Brick & Paver Program	2/21/2014	New	5/1/2014	<Null>	685877:Paul A. De Rosa	Brick	PHILIP DE ROSA:BLUE SKIES: 2014	Front Section 4	0	0
	463	Point	70537-2014	Dixon	Chelsea R. Dixon	Chelsea	Brick & Paver Program	1/22/2014	New	5/1/2014	<Null>	910191:Huw T. Dixon	Brick	CHELSEA R:DIXON 2014:GO COWBOYS!	Front Section 4	0	0
	464	Point	70541-2014	Dore	Timothy A. Dore	Timothy	Brick & Paver Program	2/19/2014	New	5/1/2014	<Null>	910519:Ted A. Dore	Brick	GO ARMY!:TIM DORE:USMA 2014	Front Section 4	0	0
	465	Point	70542-2014	Doty	Dylan B. Doty	Dylan	Brick & Paver Program	2/27/2014	New	5/1/2014	<Null>	913013:Patricia J. Doty	Brick	DYLAN B DOTY:COMPANY A-1:INFANTRY	Front Section 4	0	0
	466	Point	70544-2014	Downing	Sara M. Downing	Sara	Brick & Paver Program	2/28/2014	New	5/1/2014	<Null>	911600:Stephen E. Downing	Brick	SARA DOWNING:USMA 2014:Ps. 66 8-12	Front Section 4	0	0
	467	Point	70554-2014	E-Nunu	Teminiro T. E-Nunu	Teminiro	Brick & Paver Program	3/11/2014	New	5/1/2014	<Null>	912853:Mac E-Nunu	Brick	HONOR & GLORY:BELONGS TO GOD:E-NUNU FAMILY	Front Section 4	0	0
	468	Point	70752-2014	Johnson	Caleb E. Johnson	Caleb	Brick & Paver Program	2/25/2014	New	5/1/2014	<Null>	688550:Russell Johnson	Brick	CALEB:ERIK:JOHNSON '14	Front Section 4	0	0
	469	Point	70770-2014	Kellogg	Tyler J. Kellogg	Tyler	Brick & Paver Program	1/27/2014	New	5/1/2014	<Null>	664405:Joseph K.K. Kellogg	Brick	TYLER JOSEPH:KELLOGG	Front Section 4	0	0
	470	Point	70873-2014	Machinski	Scott V. Machcinski	Scott	Brick & Paver Program	1/22/2014	New	5/1/2014	<Null>	928130:William Pfeifer	Brick	SCOTT:MACHCINSKI:CLASS OF 2014	Front Section 4	0	0
	481	Point	70880-2014	Malinda	James P. Malinda	James	Brick & Paver Program	4/16/2014	New	5/1/2014	<Null>	911552:Paul F. Malinda	Brick	JAMES PAUL:MALINDA:CLASS OF 2014	Front Section 4	0	0
	471	Point	70900-2014	Mathieson	Greg E. Mathieson	Greg	Brick & Paver Program	1/23/2014	New	5/1/2014	<Null>	907935:Greg E. Mathieson	Brick	GREG E.:MATHIESON JR: H-1 1ST REG	Front Section 4	0	0
	472	Point	70923-2014	McKendree	Carson F. McKendree	Carson	Brick & Paver Program	2/7/2014	New	5/1/2014	<Null>	912906:Lisa McKendree	Brick	CARSON F.:McKENDREE:"Follow Me"	Front Section 4	0	0
	473	Point	70930-2014	McNamara	Kelly R. McNamara	Kelly	Brick & Paver Program	2/28/2014	New	5/1/2014	<Null>	911206:James A. McNamara	Brick	KELLY:RAIN:McNAMARA	Front Section 4	0	0
	474	Point	70966-2014	Moore	Brandon J. Moore	Brandon	Brick & Paver Program	3/10/2014	New	5/1/2014	<Null>	909572:Bruce J. Moore	Brick	CADET CAPT:BRANDON MOORE" E3 2014	Front Section 4	0	0
	475	Point	71030-2014	Pashko	Steven T. Pashko	Steven	Brick & Paver Program	2/28/2014	New	5/1/2014	<Null>	909995:Gary T. Pashko	Brick	STEVEN :PASHKO	Front Section 4	0	0
	476	Point	71076-2014	Reece	Trent J. Reece	Trent	Brick & Paver Program	3/4/2014	New	5/1/2014	<Null>	909983:Randall K. Reece	Brick	TRENT J. REECE:'14"PRO PATRIA	Front Section 4	0	0
	477	Point	71084-2014	Rice	Gregory B. Rice	Gregory	Brick & Paver Program	2/28/2014	New	5/1/2014	<Null>	909938:Gregory B. Schmidt	Brick	GREG RICE JR:C2 ADA<3GIKF:Phil 3:13-14	Front Section 4	0	0
	478	Point	71146-2014	Schmidt	Havana S. Schmidt	Havana	Brick & Paver Program	3/5/2014	New	5/1/2014	<Null>	909772:James K. Schmidt	Brick	HAVANA STAR:SCHMIDT:GATOR 4 LIFE	Front Section 4	0	0
	479	Point	71199-2014	Steckler	Jake A. Steckler	Jake	Brick & Paver Program	2/25/2014	New	5/1/2014	<Null>	909898:Robert E. Steckler	Brick	STECKLER:FAMILY:FOREVER ONE TEAM	Front Section 4	0	0
	480	Point	71372-2014	Tengito	Nicholas A. Tengito	Nicholas	Brick & Paver Program	1/27/2014	New	5/1/2014	<Null>	912776:Oscar Tengtio	Brick	NICK TENGTIO:"TANK"-I-1 2014	Front Section 4	0	0
	482	Point	71464-2015	Beauregard	Patrick F. Beauregard	Patrick	Brick & Paver Program	3/3/2015	New	5/1/2014	<Null>	916275:Jeffrey Beauregard	Brick	PATRICK F:BEAUREGARD:ROOTHAWG	Front Section 4	0	0
	502	Point	71464-2015	Beauregard	Patrick F. Beauregard	Patrick	Brick & Paver Program	3/3/2015	New	5/1/2015	<Null>	916275:Jeffrey Beauregard	Brick	PATRICK F:BEAUREGARD:A ROOTHAWG	Front Section 4	0	0
	483	Point	71470-2015	Bermudez	Gabriella J. Bermudez	Gabriella	Brick & Paver Program	12/11/2014	New	5/1/2015	<Null>	917352:Beatrice Boeglin	Brick	GABRIELLA J.:BERMUDEZ:2015	Front Section 4	0	0
	484	Point	71499-2015	Boyland	Joseph F. Boyland	Joseph	Brick & Paver Program	2/20/2015	New	5/1/2015	<Null>	916323:Joseph F. Boyland	Brick	JOSEPH F.:BOYLAND IV:F-3 2015	Front Section 4	0	0
	486	Point	71524-2015	Burnstad	Brianna C. Burnstad	Brianna	Brick & Paver Program	2/24/2015	New	5/1/2015	<Null>	21848-1958:John M. Daley	Brick	BRIANNA C.:BURNSTAD: '06 '31 '58	Front Section 4	0	0
	488	Point	71561-2015	Claxton	Andrew R. Claxton	Andrew	Brick & Paver Program	10/23/2014	New	5/1/5015	<Null>	916403:Roger Claxton	Brick	ANDREW REID:CLAXTON:A4 SCALP'EM	Front Section 4	0	0
	491	Point	71676-2015	Ford	Andrew N. Ford	Andrew	Brick & Paver Program	2/20/2015	New	5/1/2015	<Null>	916534:Joseph M. Ford	Brick	ANDREW:NICHOLAS:FORD	Front Section 4	0	0
	492	Point	71739-2015	Hamilton	Hunter G. Hamilton	Hunter	Brick & Paver Program	3/3/2015	New	5/1/2015	<Null>	917703:Peter G. Hamilton	Brick	HUNTER G:HAMILTON:ROSWELL, GA	Front Section 4	0	0
	503	Point	71809-2015	Jarrell	Peyton A. Jarrell	Peyton	Brick & Paver Program	5/21/2015	New	8/1/2015	<Null>	916695:Joseph H. Jarrell	Brick	PEYTON: JARRELL:FINANCE E-3	Front Section 4	0	0
	493	Point	71811-2015	Jennings	Biran T. Jennings	Brian	Brick & Paver Program	6/8/2015	New	5/1/2015	<Null>	916696:Jon T. Jennings	Brick	BRIAN T:JENNINGS:G2 2015	Front Section 4	0	0
	506	Point	71857-2015	Kilner	Aaron J. Kilner	Aaron	Brick & Paver Program	12/8/2015	New	5/1/2016	<Null>	47575-1990:Catherine C. Kilner	Brick	AARON KILNER	Front Section 4	0	0
	494	Point	72013-2015	Mihail	Renee Mihail	Renee	Brick & Paver Program	1/28/2015	New	5/1/2015	<Null>	916895:R. Clifford Mihail	Brick	RENEE-MARIE:MIHAIL AWSD: B4 GO BUFFS	Front Section 4	0	0
	495	Point	72055-2015	Newsome	Alexander S. Newsome	Alexander	Brick & Paver Program	3/2/2015	New	5/1/2015	<Null>	917113:Kenneth R. Newsome	Brick	ALEXANDER:NEWSOME:ARMY LAX #4	Front Section 4	0	0
	496	Point	72150-2015	Reyhan	Leora N. Reyhan	Leora	Brick & Paver Program	11/5/2014	New	5/1/2015	<Null>	924459:Patricia Reyhan	Brick	LEORA REYHAN:CO.F4:OUR PRIDE	Front Section 4	0	0
	504	Point	72162-2015	Roberto	Michael J. Roberto	Michael	Brick & Paver Program	5/1/2015	New	8/1/2015	<Null>	914804:Nicholas P. Roberto	Brick	MICHAEL J.:ROBERTO: F1 2015	Front Section 4	0	0
	497	Point	72186-2015	Sacenti	Gregory G. Sacenti	Gregory	Brick & Paver Program	3/3/2015	New	5/1/2015	<Null>	905463:Michael R. Sacenti	Brick	GREGE SACENTI:"RELENTLESS":LONGMEADOW MA	Front Section 4	0	0
	498	Point	72226-2015	Shin	Andrew M. Shin	Andrew	Brick & Paver Program	2/18/2015	New	5/1/2015	<Null>	917257:Young C. Shin	Brick	ANDREW SHIN:YOUNG & BOK:HENRY 2015	Front Section 4	0	0
	487	Point	72229-2015	Shumaker	Stephen J. Shumaker	Stephen	Brick & Paver Program	2/24/2015	New	5/1/2015	<Null>	21848-1958:John M. Daley	Brick	STEPHEN JH:SHUMAKER:FOOTBALL #70	Front Section 4	0	0
	499	Point	72242-2015	Smith	Spencer C. Smith	Spencer	Brick & Paver Program	2/27/2015	New	5/1/2015	<Null>	916191:Brian B. Smith	Brick	SPENCER:CLEVELAND:SMITH	Front Section 4	0	0
	505	Point	72278-2015	Taylor	Michael A. Taylor	Michael	Brick & Paver Program	3/10/2015	New	5/1/2015	<Null>	917241:Monroe A. Taylor	Brick	MICHAEL:TAYLOR:SPRING TEXAS	Front Section 4	0	0
	500	Point	72289-2015	Thompson	Zachary T. Thompson	Zachary	Brick & Paver Program	2/25/2015	New	5/1/2015	<Null>	917255:David J. Thompson	Brick	ZACHARY TED:THOMPSON:MAY 2015	Front Section 4	0	0
	501	Point	72307-2015	Vaccaro	Mary A. Vaccaro	Mary	Brick & Paver Program	1/22/2015	New	5/1/2015	<Null>	916744:Salvatore Vaccaro	Brick	MARY VACCARO:COMPANY I-4:2015	Front Section 4	0	0
	485	Point	72401-2015	Brattain	William P. Brattain	William	Brick & Paver Program	2/24/2015	New	5/1/2015	<Null>	916325:Kenneth W. Brattain	Brick	WILLIAM:BRATTAIN:GO CYBER	Front Section 4	0	0
	490	Point	72413-2015	Doehling	Shelbi D. Doehling	Shelbi	Brick & Paver Program	11/3/2014	New	5/1/2015	<Null>	916468:John M. Doehling	Brick	SHELBI D.:DOEHLING:MANHATTAN KS	Front Section 4	0	0
	509	Point	72434-2016	Abdelkhalek	Samir S. Abdelkhalek	Samir	Brick & Paver Program	11/3/2015	New	5/1/2016	<Null>	921433:Janice Abdelkhalek	Brick	SAMIR SAFWAT:ABDELKHALEK:E-1 DAMMIE!	Front Section 4	0	0
	540	Point	72441-2016	Alexander	Ryan J. Alexander	Ryan	Brick & Paver Program	3/7/2016	New	5/1/2016	<Null>	653902:Elizabeth Alexander	Brick	RYAN J.:ALEXANDER:I1 INFANTRY	Front Section 4	0	0
	510	Point	72458-2016	Auten	Michael R. Auten	Michael	Brick & Paver Program	2/29/2016	New	5/1/2016	<Null>	920760:George Auten	Brick	MIKE AUTEN:HICKORY NC:USMC	Front Section 4	0	0
	538	Point	72471-2016	Barnes	John G. Barnes	John	Brick & Paver Program	3/1/2016	New	5/1/2016	<Null>	920843:Suzannah Barnes	Brick	JOHN GORDON:JG BARNES:C4 COWBOY EN	Front Section 4	0	0
	539	Point	72486-2016	Beck	Andrew T. Beck	Andrew	Brick & Paver Program	3/1/2016	New	5/1/2016	<Null>	921190:Clinton D. Beck	Brick	ANDREW BECK:ARMY DISTANCE:ISIAH 6:8	Front Section 4	0	0

Final Thoughts

- Data management expansion transitions into a GIS project (From Excel to ArcGIS)
- If the project entails has some sort of spatial component, consider GIS as a solution
- Project engineer it up front – establish the criteria early to avoid changes later
- Issues with moving from a legacy system to a digital system (start up costs)
- Data conversion and storing data in a geodatabase – know the formats required

Project Team

- Amy Hagan: Program Manager, WPAOG Brick and Paver Program
- Jamie Rainelli: Project Manager, WPOAG Brick and Paver Program
- Alexandra Elfers: Intern, WPOAG Brick and Paver Program
- Amy Dillon: Intern, WPAOG Brick and Paver Program

https://www.westpointaog.org/brickandpaver

It's not where you start, it's where you finish

(and it started with this .pdf map right here)