

As part of Vertical Access' investigation of buildings and structures, we typically prepare a detailed and comprehensive Condition Survey Report. VA documents existing conditions using a combination of digital still color photography keyed to annotated drawings. To record existing conditions, Vertical Access has developed the Tablet PC Annotation System (TPAS®) that allows on-site annotation directly in AutoCAD. TPAS allows Vertical Access to input both graphical and numerical data directly into AutoCAD, on site, using tablet computers and digital cameras. We submit to the project client the Condition Survey Report in two formats: 1) a bound report with a written narrative, color photographs and annotated drawings and 2) a DVD or flash drive with digital files of all of the deliverables.

VA's Condition Survey Report contains the following components:

Report Narrative: The Report Narrative is a written narrative that describes the findings of the survey and investigation. Typically, it is divided into the following sections: 1) executive summary; 2) description of the deliverables; 3) description of the scope of work; 4) general observations, including a brief historical and architectural description of the structure; 5) description of specific conditions, with photographs of conditions referenced; 6) conclusion. The Report Narrative is submitted digitally as a .PDF document.

Photographs: During the survey, VA takes high resolution photographs of representative conditions and other notable conditions using digital still cameras. These photographs are included in a Photographs section of the report, typically six photographs per 8-1/2"x11" sheet of paper. The photographs are named with the type of condition and have a specific numeric (x-y coordinates) nomenclature that corresponds to the coordinates within the AutoCAD drawing where the conditions are located. In the digital format, the photographs are hyperlinked to the AutoCAD drawing so that they can be accessed from the drawing and viewed easily as digital files. The photographs are submitted digitally as .JPG files.

Drawings: During the field survey and investigation, VA annotates elevation and plan drawings in AutoCAD using a library of pre-defined graphic and code blocks for each material present. The severity and amount of each condition is recorded in the field as attributes of the block so that the drawings are used to both document and quantify the existing conditions. With the bound report, VA includes a 24"x36" set of drawings as well as reduced-scale 11"x17" set. The digital AutoCAD .DWG and drawing .PDF files are submitted with the final report as part of the project deliverables.

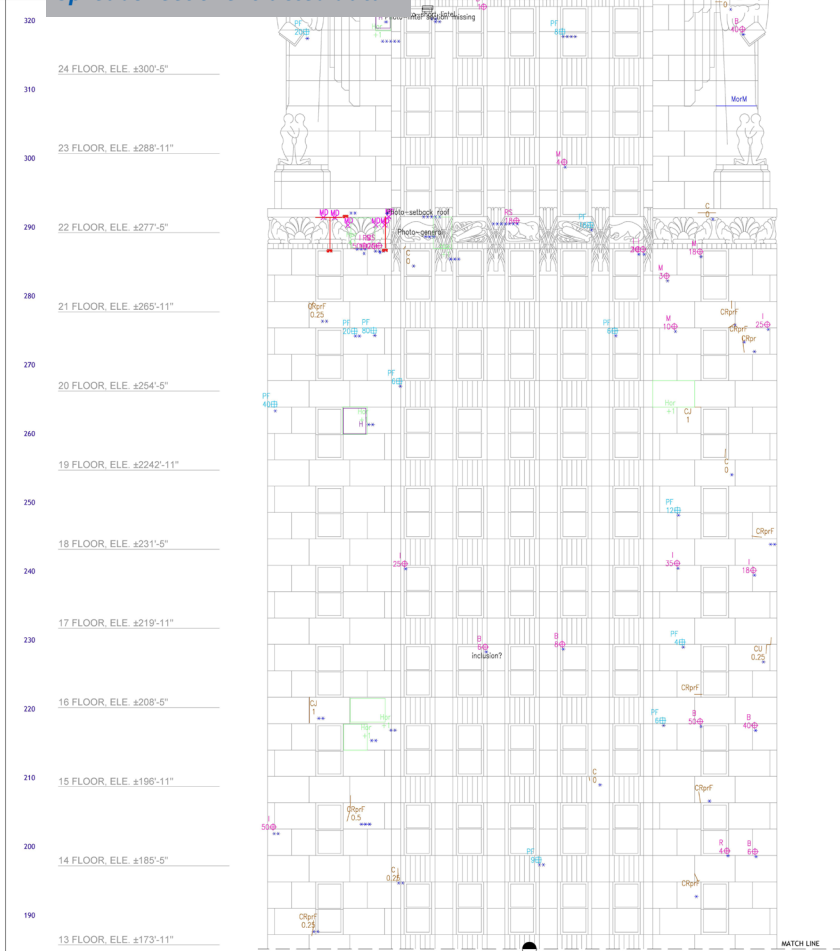
Spreadsheet of Extracted Data: VA includes in the bound report a spreadsheet containing the numerical survey data such as crack length and area of soiling that are recorded in the annotated AutoCAD drawings. The spreadsheet is also submitted digitally as an .XLS file that can be further formatted according to the various needs of the project.

Video Documentation: When VA provides video documentation as part of a project, the digital video footage is transferred to DVD for the project deliverable. Hi-definition video is used for a larger and better quality image.

Extracted Survey Conditions								
Block Name	Condition	X	Y	Code	Severity	Amount	Priority	Photo
Stone_SurfLoss	Chipped	1802	385	Chp	1	2.8	P2	Yes
Stone_SurfLoss	Chipped	196	22	Chp	1	0.8	P2	Yes
Stone_SurfLoss	Chipped	1804	351	Chp	2	2.8	P2	Yes
Stone_SurfLoss	Chipped	1283	308	Chp	0.5	0.1	P2	No
Stone_SurfLoss	Chipped	1231	85	Chp	1	0.5	P2	Yes
Stone_SurfLoss	Chipped	718	148	Chp	2	0.2	P2	Yes
Stone_SurfLoss	Chipped	1276	351	Chp	2	0.0	P2	No
Stone_SurfLoss	Chipped	1272	401	Chp	1	0.0	P2	Yes
Stone_SurfLoss	Chipped	1262	91	Chp	2	4.8	P2	Yes
Stone_SurfLoss	Chipped	1263	275	Chp	1	0.5	P2	Yes
Stone_SurfLoss	Chipped	1258	73	Chp	3	0.4	P2	Yes
Stone_SurfLoss	Chipped	215	179	Chp	1	0.2	P2	Yes
Stone_SurfLoss	Chipped	1271	249	Chp	1	1.0	P2	Yes
Stone_SurfLoss	Chipped	1275	348	Chp	2.5	0.3	P2	Yes
Stone_SurfLoss	Chipped	1277	132	Chp	1	0.6	P2	Yes
Stone_SurfLoss	Chipped	1284	161	Chp	0.5	0.2	P2	Yes
Stone_SurfLoss	Chipped	1288	126	Chp	0.5	23.4	P2	Yes
Stone_SurfLoss	Chipped	1289	310	Chp	0.5	0.1	P2	No
Stone_SurfLoss	Chipped	1285	130	Chp	0.5	1.9	P2	No
Stone_SurfLoss	Chipped	1288	248	Chp	1	0.1	P2	Yes
Stone_SurfLoss	Chipped	1283	296	Chp	1	0.5	P2	Yes
Stone_SurfLoss	Chipped	1280	244	Chp	1	0.1	P2	No
Stone_SurfLoss	Chipped	1285	198	Chp	0.5	0.2	P2	Yes
Stone_SurfLoss	Chipped	1271	232	Chp	1	0.0	P2	No
Stone_SurfLoss	Delamination	1737	184	H	2	0.2	P2	Yes
Stone_SurfLoss	Exfoliation	640	81	Ext	0.5	4.9	P2	Yes
Stone_Unsecured	Hollow	1289	323	H		5.8	P2	No
Stone_Unsecured	Hollow	1299	49	H		2.7	P2	No
Stone_Unsecured	Hollow	246	105	H		2.0	P2	No
Stone_Unsecured	Hollow	1289	198	H		22.8	P2	No
Stone_Unsecured	Hollow	1302	135	H		10.3	P2	No
Stone_Unsecured	Hollow	1288	294	H		22.5	P2	No
Stone_Unsecured	Hollow	1293	300	H		5.4	P2	No
Stone_Unsecured	Hollow	1302	159	H		5.5	P2	No
Stone_Unsecured	Hollow	1299	199	H		4.4	P2	No
Stone_Unsecured	Hollow	244	32	H		1.9	P2	No
Stone_Unsecured	Hollow	1738	78	H		2.9	P2	Yes
Stone_Unsecured	Hollow	1733	75	H		10.0	P2	No
Stone_Unsecured	Hollow	1430	74	H		18.8	P2	No
Stone_Unsecured	Hollow	1382	46	H		1.2	P2	No
Stone_Unsecured	Hollow	1776	69	H		6.3	P2	No
Stone_Unsecured	Hollow	1780	370	H		2.7	P2	No
Stone_Unsecured	Hollow	1784	407	H		7.4	P2	No
Stone_Unsecured	Hollow	1712	71	H		22.8	P2	No
Stone_Unsecured	Hollow	1807	52	H		1.5	P2	No
Stone_Unsecured	Hollow	1275	398	H		1.3	P2	No
Stone_Unsecured	Hollow	211	261	H		12.4	P2	No
Stone_Unsecured	Hollow	214	320	H		6.8	P2	Yes
Stone_Unsecured	Hollow	213	167	H		8.0	P2	No
Stone_Unsecured	Hollow	213	165	H		8.4	P2	No
Stone_Unsecured	Hollow	1271	141	H		10.1	P2	Yes
Stone_Unsecured	Hollow	1255	223	H		2.8	P2	No
Stone_Unsecured	Hollow	1282	403	H		7.9	P2	Yes
Stone_Unsecured	Hollow	1265	85	H		23.8	P2	No

Louisiana State Capitol Vertical Access LLC
 Exterior Investigation Job Number 16-1794
 Baton Rouge, LA 35 of 36 July 1, 2016

Spreadsheet of extracted data



KEY TO SYMBOLS

Each TPS annotation is comprised of a graphical symbol and text label.

Four types of graphical symbols are used:

- Target symbols depict faults having discrete locations, such as spalls or patch repairs.
- Box symbols are rectangular symbols delineating conditions that span an area too large to be effectively represented with target symbols.
- Polyline symbols depict cracks and specific joint pointing.
- Picture Link symbols indicate the location of survey photographs.

Text labels include a code describing the type of condition, and if applicable, a severity code and a Picture Link.

This target symbol indicates a 20 square inch spall, which was removed during the survey and photographed.

This box symbol indicates an area of biological staining, which was not photographed.

This polyline indicates a crack system following a joint path, 3/16 inch wide, which was photographed.

Each condition is annotated with a severity code and a picture link. The severity code is a number from 1 to 4, indicating the severity of the condition. The picture link is a number from 1 to 4, indicating the location of the photograph. The picture link is also a color code: Blue for Biological Staining, Green for Cracks, Red for Spalls, and Yellow for Other.

Severity — 10 X Picture Link

Severity — 10 X Picture or Video Link

Bio

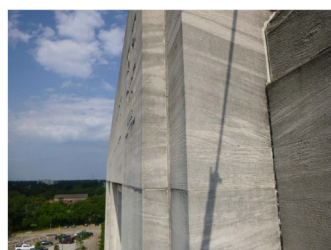
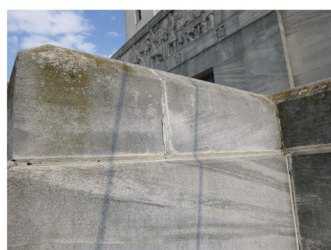
Crack

Spall

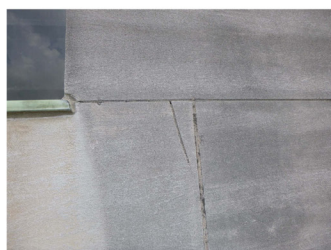
Other

KEY TO SURVEY CODES: METALS					
Condition	Symbol	Fail Type	Severity	Amount	
Seams		Seam Failures	Not applicable	Length in in. ft.	
Unconcerned		Not applicable	Not applicable	Length in sq. ft.	

KEY TO SURVEY CODES: MASONRY, GLASS					
Condition	Symbol	Fail Type	Severity	Amount	
	C	Crack	Within 1/16" increments		
	CJ	Crack joints: joints	0	None	
	CJ	Crack joints: joints	1	Medium to 1/32 inch	Length in ft.
	Cracks	Crack in ft. Units & Joints	1	1/16 to 1/8 inch	
	Crack	Crack in ft. Units & Joints	2	1/8 to 1/4 inch	
	Crack	Crack in ft. Units & Joints	3	1/4 to 1/2 inch	
	Crack	Crack in ft. Units & Joints	4	1/2 to 1 inch	
	Crack	Crack in ft. Units & Joints	5	1 inch to 1 1/2 inch	
	Crack	Crack in ft. Units & Joints	6	1 1/2 to 2 inch	
	Crack	Crack in ft. Units & Joints	7	2 to 3 inch	
	Crack	Crack in ft. Units & Joints	8	3 to 4 inch	
	Crack	Crack in ft. Units & Joints	9	4 to 6 inch	
	Crack	Crack in ft. Units & Joints	10	6 to 12 inch	
	Crack	Crack in ft. Units & Joints	11	12 to 24 inch	
	Crack	Crack in ft. Units & Joints	12	24 to 48 inch	
	Crack	Crack in ft. Units & Joints	13	48 to 96 inch	
	Crack	Crack in ft. Units & Joints	14	96 to 192 inch	
	Crack	Crack in ft. Units & Joints	15	192 to 384 inch	
	Crack	Crack in ft. Units & Joints	16	384 to 768 inch	
	Crack	Crack in ft. Units & Joints	17	768 to 1536 inch	
	Crack	Crack in ft. Units & Joints	18	1536 to 3072 inch	
	Crack	Crack in ft. Units & Joints	19	3072 to 6144 inch	
	Crack	Crack in ft. Units & Joints	20	6144 to 12288 inch	
	Crack	Crack in ft. Units & Joints	21	12288 to 24576 inch	
	Crack	Crack in ft. Units & Joints	22	24576 to 49152 inch	
	Crack	Crack in ft. Units & Joints	23	49152 to 98304 inch	
	Crack	Crack in ft. Units & Joints	24	98304 to 196608 inch	
	Crack	Crack in ft. Units & Joints	25	196608 to 393216 inch	
	Crack	Crack in ft. Units & Joints	26	393216 to 786432 inch	
	Crack	Crack in ft. Units & Joints	27	786432 to 1572864 inch	
	Crack	Crack in ft. Units & Joints	28	1572864 to 3145728 inch	
	Crack	Crack in ft. Units & Joints	29	3145728 to 6291456 inch	
	Crack	Crack in ft. Units & Joints	30	6291456 to 12582912 inch	
	Crack	Crack in ft. Units & Joints	31	12582912 to 25165824 inch	
	Crack	Crack in ft. Units & Joints	32	25165824 to 50331648 inch	
	Crack	Crack in ft. Units & Joints	33	50331648 to 100663296 inch	
	Crack	Crack in ft. Units & Joints	34	100663296 to 201326592 inch	
	Crack	Crack in ft. Units & Joints	35	201326592 to 402653184 inch	
	Crack	Crack in ft. Units & Joints	36	402653184 to 805306368 inch	
	Crack	Crack in ft. Units & Joints	37	805306368 to 1610612736 inch	
	Crack	Crack in ft. Units & Joints	38	1610612736 to 3221225472 inch	
	Crack	Crack in ft. Units & Joints	39	3221225472 to 6442450944 inch	
	Crack	Crack in ft. Units & Joints	40	6442450944 to 12884901888 inch	
	Crack	Crack in ft. Units & Joints	41	12884901888 to 25769803776 inch	
	Crack	Crack in ft. Units & Joints	42	25769803776 to 51539607552 inch	
	Crack	Crack in ft. Units & Joints	43	51539607552 to 103079215104 inch	
	Crack	Crack in ft. Units & Joints	44	103079215104 to 206158430208 inch	
	Crack	Crack in ft. Units & Joints	45	206158430208 to 412316860416 inch	
	Crack	Crack in ft. Units & Joints	46	412316860416 to 824633720832 inch	
	Crack	Crack in ft. Units & Joints	47	824633720832 to 1649267441664 inch	
	Crack	Crack in ft. Units & Joints	48	1649267441664 to 3298534883328 inch	
	Crack	Crack in ft. Units & Joints	49	3298534883328 to 6597069766656 inch	
	Crack	Crack in ft. Units & Joints	50	6597069766656 to 13194139533312 inch	
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265-75 Stone_Displacement Horizontal and Vertical
2016-2

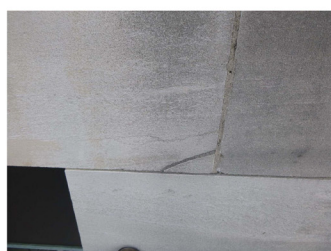
265-81 Stone Spall Bonded 2016-1



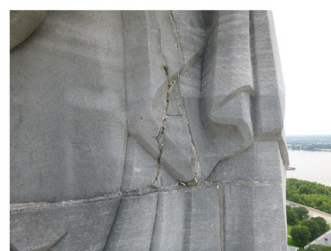
265-276 Stone Crack Repair failed 2016-1



265-336 Stone Spall Missing 2016-1



266-274 Stone Crack Repair failed 2016-1



266-318 Stone Spall Bonded 2016-1

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