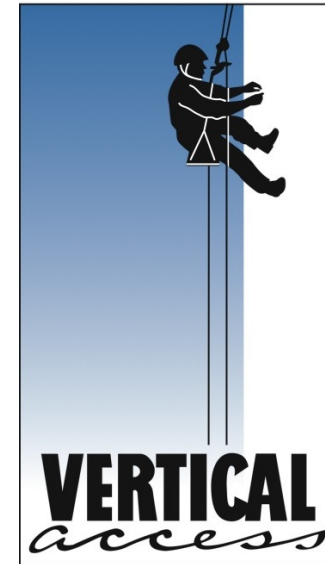


TPAS Web Portal User's Guide

Tablet PC Annotation System (TPAS™)

Updated January 2015



About TPAS

The Tablet PC Annotation System (TPAS) allows digital collection of survey data in the field using AutoCAD, streamlining the preparation of reports, cost estimates, and design documents. The TPAS Web Portal allows interactive viewing and analysis of project data, drawings, and photographs, and collaboration among multiple project team members.



With the TPAS Web Portal you don't need AutoCAD to be able to view and analyze survey data in numerical and visual formats. The Portal can be accessed anywhere with a web connection – from your desktop, laptop, tablet or smartphone.

The Portal's user-friendly interface makes it easy to collaborate with multiple project team members.

Survey data can be uploaded to the Portal in near real-time during a survey project, allowing same-day viewing of conditions data, photographs, and drawings by remote team members.

The TPAS Web Portal is optimized for use with Chrome, Firefox, and Safari. Internet Explorer is not recommended.

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Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

[Filters](#)

PRIORITY ⇒		NA	Pr1	Pr2	Pr3	Total
North	0	0	4	3	1	8
South	0	2	3	38	4	47
East	0	27	10	1177	133	1347
Default	1	0	0	0	0	1
Total	1	29	17	1218	138	1403

Summary of Condition Types

[Views](#)

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
ArchMetal	Coating	Coating Failed	1	0.01 FT ²
	Corrosion	Pitted	3	36880012 FT ²

Overview Tab

Clients can access multiple projects through a single portal using the drop-down project menu.

In the Overview window, two summary tables facilitate numerical analysis.

The first table summarizes survey conditions by priority and by location on the drawing.

The second table gives the quantity of each condition arranged by material type.

Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

[Filters](#)

PRIORITY ⇒		NA	Pr1	Pr2	Pr3	Total
North	0	0	4	3	1	8
South	0	2	3	38	4	47
East	0	27	10	1177	133	1347
Default	1	0	0	0	0	1
Total	1	29	17	1218	138	1403

Summary of Condition Types

[Views](#)

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
ArchMetal	Coating	Coating Failed	1	0.01 FT ²
	Corrosion	Pitted	3	36880012 FT ²

Summary Tables

Use the Filters feature to create customized table views.

Filters are cumulative. Add or remove filters to select only the data you want to focus on.

Example:

Let's say we want to look at only the cracks in Terra Cotta that are greater than 1/16 inch, and we don't want to look at failed crack repairs.

First, we'll filter out all of the conditions that aren't cracks.

Step 1: Select Add Filters

Summary of PRIORITY by Drawing View

Filters ▾

PRIORITY ⇒		✓ CLASS [17]	is		Total
North					8
South	0				47
East	0				1347
Default	1				1
Total	1				1403

TIME [10]

DATE [3]

AMOUNT [463]

TYPE [8]

CODE [70]

CONDITION [43]

SEVERITY [43]

REPAIR [1]

PRIORITY [4]

PHOTO [755]

MATERIAL [8]

NOTES [1]

Link [805]

Summary Tables

Step 2: Select “Class” and “Crack”

Summary of PRIORITY by Drawing View

Filters ▾

PRIORITY ⇒		✓ CLASS [17]	is		Total
North					8
South					
East					1347
Default					1
Total					1403

SurfLoss

Crack

Repair

SoilStain

Spall

Joints

Note

Ferrous

MATERIAL	CLAS		
ArchMetal	Coat	0.01	FT ²

Summary of Condition Ty

Summary Tables

The tables now show only Crack instances, but there are documented cracks in glass and stone as well as in terra cotta.

Now, we'll add a filter to select only terra cotta.

Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

Filters (1)▼

PRIORITY ⇒	NA	Pr1	P		Total
North	0	1	0	0	1
South	0	0	18	0	18
East	1	1	256	1	259
Total	1	2	274	1	278

+ Add
✗ CLASS is Crack

Step 3: Select Add Filters

Summary of Condition Types

View: custom▼

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
Glass	Crack	Cracked pane	2	
Stone	Crack	Repair failed	1	0.638 FT
		Repair sound	3	2.266 FT
		Single unit	5	1.911 FT

Step 4: Select “Material” and “Terra Cotta”

Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

Filters (1) ▾

PRIORITY ⇒	MATERIAL [8]	is		Total
North	<div> <div>✓</div> <div>MATERIAL [8]</div> <div>is</div> <div></div> </div>	<div> <div>TerraCotta</div> <div>Picture Link</div> <div>Stone</div> <div>Concrete</div> <div>ArchMetal</div> <div>SheetMetal</div> <div>Glass</div> <div>TC</div> </div>		
South				18
East				259
Total				278

Summary of Condition Ty

MATERIAL	CLASS		Measurement
Glass	Crack		
Stone	Crack		0.638 FT
	Repair sound	3	2.266 FT
	Single unit	5	1.911 FT

✗ CLASS is Crack

Summary of PRIORITY by Drawing View

Filters (2) ▾

PRIORITY ⇒	SEVERITY [43]	is	Total
North			1
South			18
East	1		245
Total	1		263

Summary Tables

Next, we'll filter out all of the cracks with a width of less than 1/16 inch.

Step 5: Select Add Filter

Step 6: Select "Severity" ">=" "1"

Summary of PRIORITY by Drawing View

Filters (2) ▾

PRIORITY ⇒	SEVERITY [43]	>=	1	Total
North			5	1
South			2	18
East			1	248
Total			10	267

MATERIAL	al Measurement
TerraCotta	0.249 FT
	54.98 FT
	17.76 FT
	12.66 FT
System units	6 3.71 FT

Summary of PRIORITY by Drawing View

Filters (3) ▾

PRIORITY ⇒	CONDITION [43] ▾	is	
North	✓ CLASS is Crack	is not	
East	✗ MATERIAL is TerraC	matches	
Total	✗ SEVERITY >= 1	does not match	
		>=	
		>	
		<=	
		<	
		is one of	
		near condition #	

Summary Tables

Finally, we'll filter out all of the crack conditions that are failed repairs.

Step 7: Select Add Filter

Step 8: Select "Condition" "is not" "Repair failed"

Summary of PRIORITY by Drawing View

Filters (3) ▾

PRIORITY ⇒	CONDITION [43] ▾	is not	
North			
East			
Total			
			Chipped
			Repair failed
			Patch Sound
			Patch Failed
			Atmospheric
			Missing
			Mortar Failed
			Single unit
			Repair sound

Summary of Cond

MATERIAL			
TerraCotta			
			al Measurement
		2.805	FT
		3.927	FT
		2.668	FT

Summary Tables

Both tables now show only the Cracks in Terra Cotta that are not failed repairs and that are greater than 1/16" in width.

Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

Filters (4) ▾

PRIORITY ⇒	Pr1	Pr2	Total
North	1	0	1
East	0	21	21
Total	1	21	22

Summary of Condition Types

View: custom ▾

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
TerraCotta	Crack	Single unit	17	3.927 FT
		System units	4	2.668 FT
		System units and joints	2	5.097 FT

Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

Filters (4) ▾

PRIORITY ⇒	Pr1	Pr2	Total
North	1	0	1
East	0	21	21
Total	1	21	22

Summary of Condition Types

View: custom ▾

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
TerraCotta	Crack	Single unit	17	3.927 FT
		System units	4	2.668 FT
		System units and joints	2	5.097 FT

Summary Tables

Summary tables can be further customized by selecting only annotations from a portion of the drawing – for example, conditions at a particular building corner or other area of concern – to be uploaded to the TPAS Web Portal.

Contact the TPAS Program Manager to discuss this option.

Condition Details and Photographs

Click on any table cell or group of cells to show all of the conditions and photographs of that particular material, class, condition, priority, or combination thereof.

Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

Filters (4) ▾

PRIORITY ⇒	Pr1	Pr2	Total
North	1	0	1
East	0	21	21
Total	1	21	22

Example: Click in the Priority 1 column of the Totals row to see all of the Priority 1 conditions.

Summary of Condition Types

View: custom ▾

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
TerraCotta	Crack	Single unit	17	3.927 FT
		System units	4	2.668 FT
		System units and joints	2	5.097 FT

Condition Details and Photographs

Summary of Condition Types

View: custom ▾

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
TerraCotta	Crack	Single unit	17	3.927 FT
		System units	4	2.668 FT
		System units and joints	2	5.097 FT

Example: Click in the Material column to see all of the conditions and photographs of a selected material.

Summary of Condition Types

View: custom ▾

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
TerraCotta	Crack	Single unit	17	3.927 FT
		System units	4	2.668 FT
		System units and joints	2	5.097 FT

Example: To see only the conditions and photographs of cracks in units and joints, click in the “System units and joints” cell.

Condition Details and Photographs

To view all conditions and photographs, select the Total amount from the first summary table.

Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

Filters ▾

PRIORITY ⇒		NA	Pr1	Pr2	Pr3	Total
North	0	0	4	3	1	8
South	0	2	3	38	4	47
East	0	27	10	1177	133	1347
Default	1	0	0	0	0	1
Total	1	29	17	1218	138	1403

Summary of Condition Types

Views ▾

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
ArchMetal	Coating	Coating Failed	1	0.01 <small>FT²</small>

Condition Details and Photographs

Terra Cotta Facade Inspection

Attribute Filters

- MATERIAL is TerraCotta
- CLASS is Crack
- CONDITION is System units

Showing 1 - 5 of 5

Update Comments

PDF

Share...

✖ ☐ TerraCotta_Crack

East Elevation [96.3, 19.6]

CONDITION System units

PRIORITY Pr2

SEVERITY 1

AMOUNT 0.644

CLASS Crack

CODE CU

MATERIAL TerraCotta

TYPE SInt

REMARKS

1 of 1



96.3-19.6-1.jpg 📷 📷

In this example, we've selected to view conditions and photographs of Terra Cotta unit crack systems. The selected filters are shown at the top of the photograph view page.

Click on the photo thumbnail to open a full-size version of the photo.

Right-click on the thumbnail or full-size photograph and select "save image as" to save it as a high-resolution .jpg image.

The web address for each full-size photograph can be copied from the address bar and shared via email as a link.

Condition Details and Photographs

Terra Cotta Facade Inspection

Attribute Filters

- MATERIAL is TerraCotta
- CLASS is Crack
- CONDITION is System units

Showing 1 - 5 of 5

Update Comments PDF Share...

✖ TerraCotta_Crack

East Elevation [96.3, 19.6]

CONDITION System units

PRIORITY Pr2

SEVERITY 1

AMOUNT 0.644

CLASS Crack

CODE CU

MATERIAL TerraCotta

TYPE SInt

REMARKS

1 of 1



96.3-19.6-1.jpg 📷 📷

Use the PDF button to create a printable PDF document showing the selected conditions and photographs. The PDF can be customized with the client's letterhead.

To save the PDF as a digital file, right click on the PDF and select "save as."

The web address of any PDF can be copied from the address bar and shared via email as a link.

Inspection

units

Share...

Crack

System units

Pr2

1

0.644

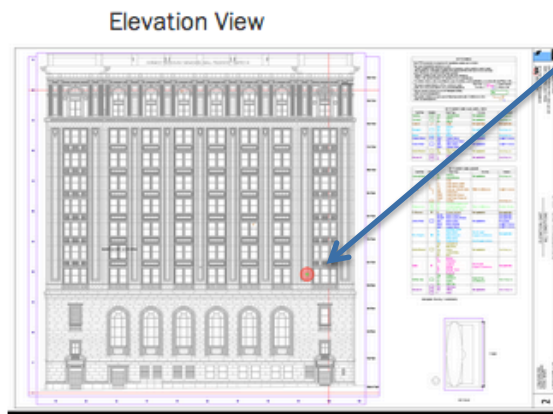
Crack

CU

TerraCotta

Slnt

East Elevation [96.3, 19.6]



You are HERE 📍📍

Condition Details and Photographs

Click on the drawing coordinates above any photograph to see that condition's location on the AutoCAD drawing. The location of the condition is circled in red.

Click anywhere on the drawing thumbnail to open the full-size drawing.

Condition Details and Photographs

Terra Cotta Facade Inspection

Attribute Filters

- MATERIAL is TerraCotta
- CLASS is Crack
- CONDITION is System units

Showing 1 - 5 of 5

Update Comments

PDF

Share...

✖ ☐ TerraCotta_Crack

East Elevation [96.3, 19.6]

CONDITION System units

PRIORITY Pr2

SEVERITY 1

AMOUNT 0.644

CLASS Crack

CODE CU

MATERIAL TerraCotta

TYPE SInt

REMARKS

Jane, this is the condition I called you about

Elevation View



You are HERE 📍📍

Use the Remarks feature to share notes and observations with other team members. Type comments into the box and click the Update Comments button.

Drawing View

From the photographs page, open the full-size drawing view by clicking on the drawing thumbnail.

✖
☐ TerraCotta_Crack

[East Elevation \[96.3, 19.6 \]](#)

CONDITION	System units
PRIORITY	Pr2
SEVERITY	1
AMOUNT	0.644
CLASS	Crack
CODE	CU
MATERIAL	TerraCotta
TYPE	Slnt

Elevation View

You are HERE 📍📍

Summary of PRIORITY by Drawing View

Filters (4) ▾

PRIORITY ⇒	Pr1	Pr2	Total
North	1	0	1
East	0	21	21
Total	1	21	22
















From the Overview page, click on any of the drawing views in the first summary table.

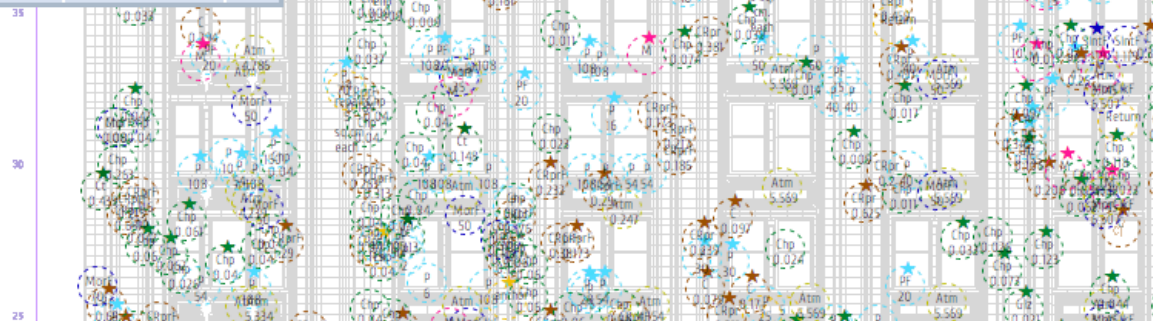
Drawing View

East

Use the drop-down menu to toggle between drawing views (typically arranged by elevation.)

The sliding bar controls the density of the background drawing for ease of viewing.

PRIORITY ▾		NA	Pr1	Pr2	Pr3	Total
CLASS ▾						
	Coating			12	2	14
	Corrosion			8		8
	Crack	1	1	256	1	259
	Damaged			4		4
	Displacement		2	1		3
	Ferrous			16		16
	Joints			98		98
	Note	26		28		54
	Repair		2	240	21	263
	SealantFailed			4		4
	Seam			3		3
	SoilStain			17	109	126
	Spall		3	110		113
	SurfLoss			376		376
	Unsecured		2	4		6
Total		27	10	1177	133	1347



Drawing View

East

East

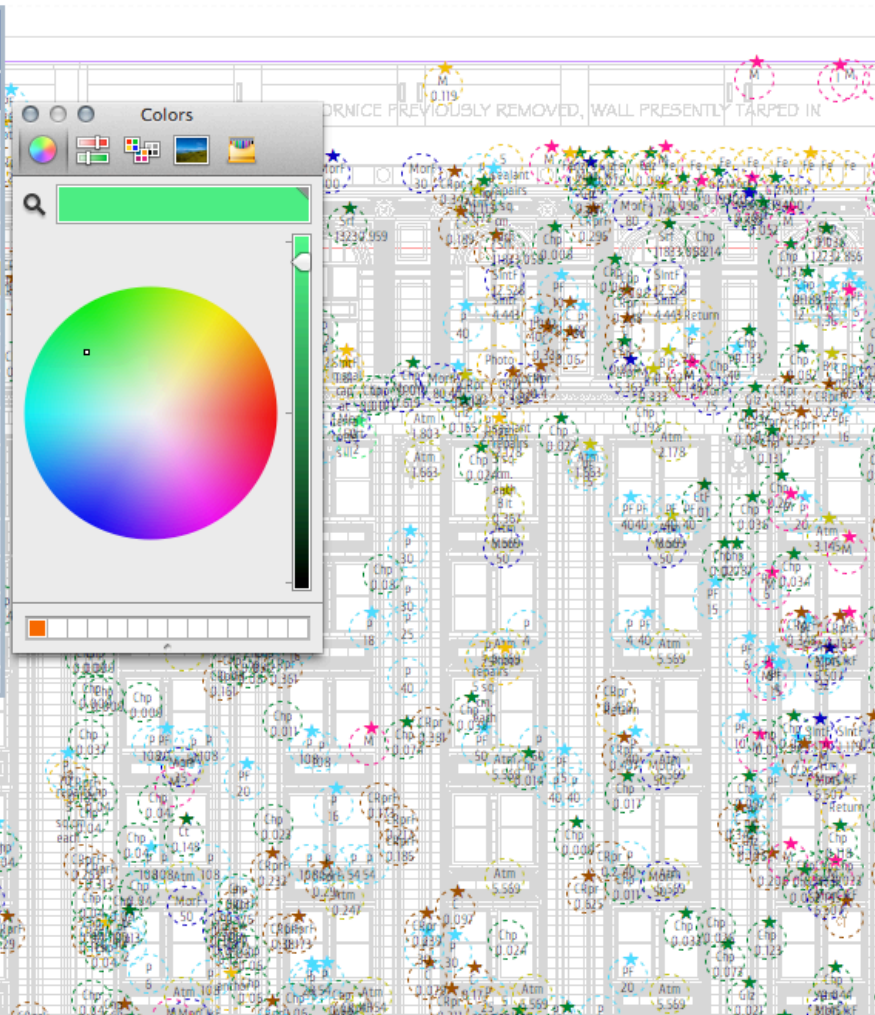


Click on the colored rectangles in the summary table to customize the notation color-coding.

Use the “s” key on the keyboard to hide or display the summary table.



PRIORITY	NA	Pr1	Pr2	Pr3	Total
CLASS	70685, 49469				
Coating	12	2	14		
Corrosion		8	8		
Crack	1	1	256	1	259
Damaged	4		4		
Displacement	2	1	3		
Ferrous	16		16		
Joints	98		98		
Note	26	28	54		
Repair	2	240	21	263	
SealantFailed	4	4			
Seam	3	3			
SoilStain	17	109	126		
Spall	3	110	113		
SurfLoss	376		376		
Unsecured	2	4	6		
Total	27	10	1177	133	1347



Drawing View

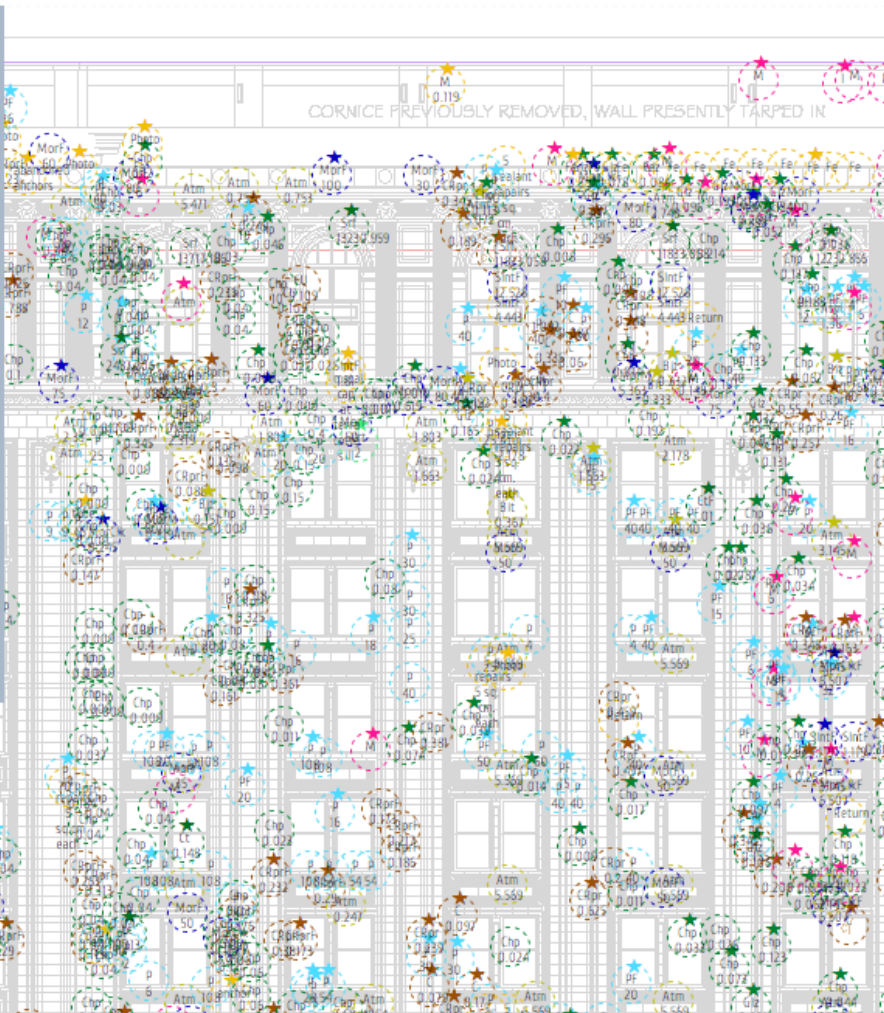
Use the drop-down menus to customize the numerical table view.

East

East



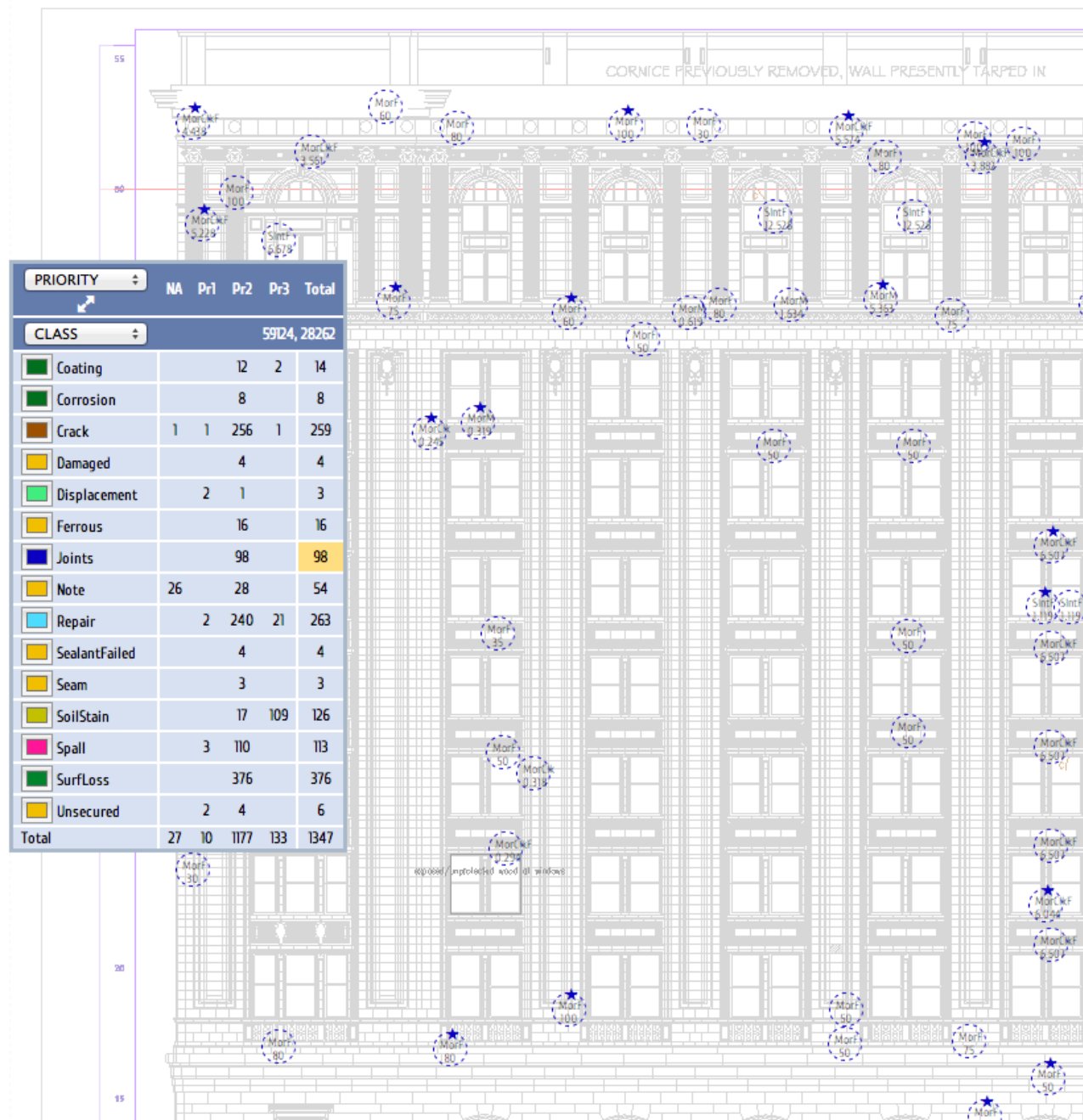
CONDITION	NA	Pr1	Pr2	Pr3	Total
✓ PRIORITY					
SEVERITY					
AMOUNT					
CLASS					
CODE					
DATE					
MATERIAL					
REPAIR					
TIME					
TYPE					
PHOTO					
Ferrous					
Joints					
Note					
Repair					
SealantFailed					
Seam					
SoilStain					
Spall					
SurfLoss					
Unsecured					
Total					



Drawing View

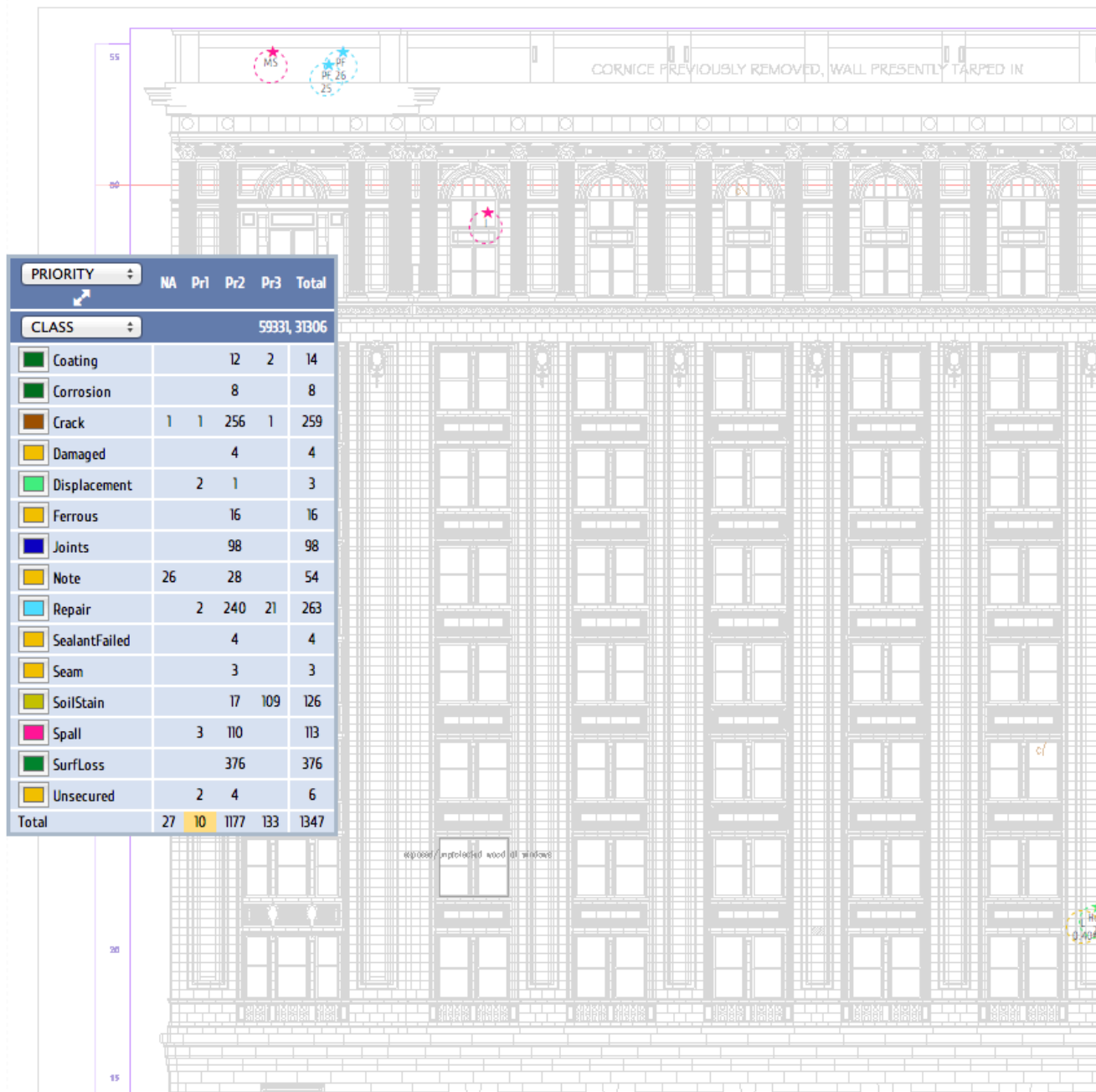
Click on any numerical value in the table to show only the selected condition notations on the drawing.

In this example, all of the joint conditions are shown.



Drawing View

In this example, only the Priority 1 conditions are selected.



Drawing View

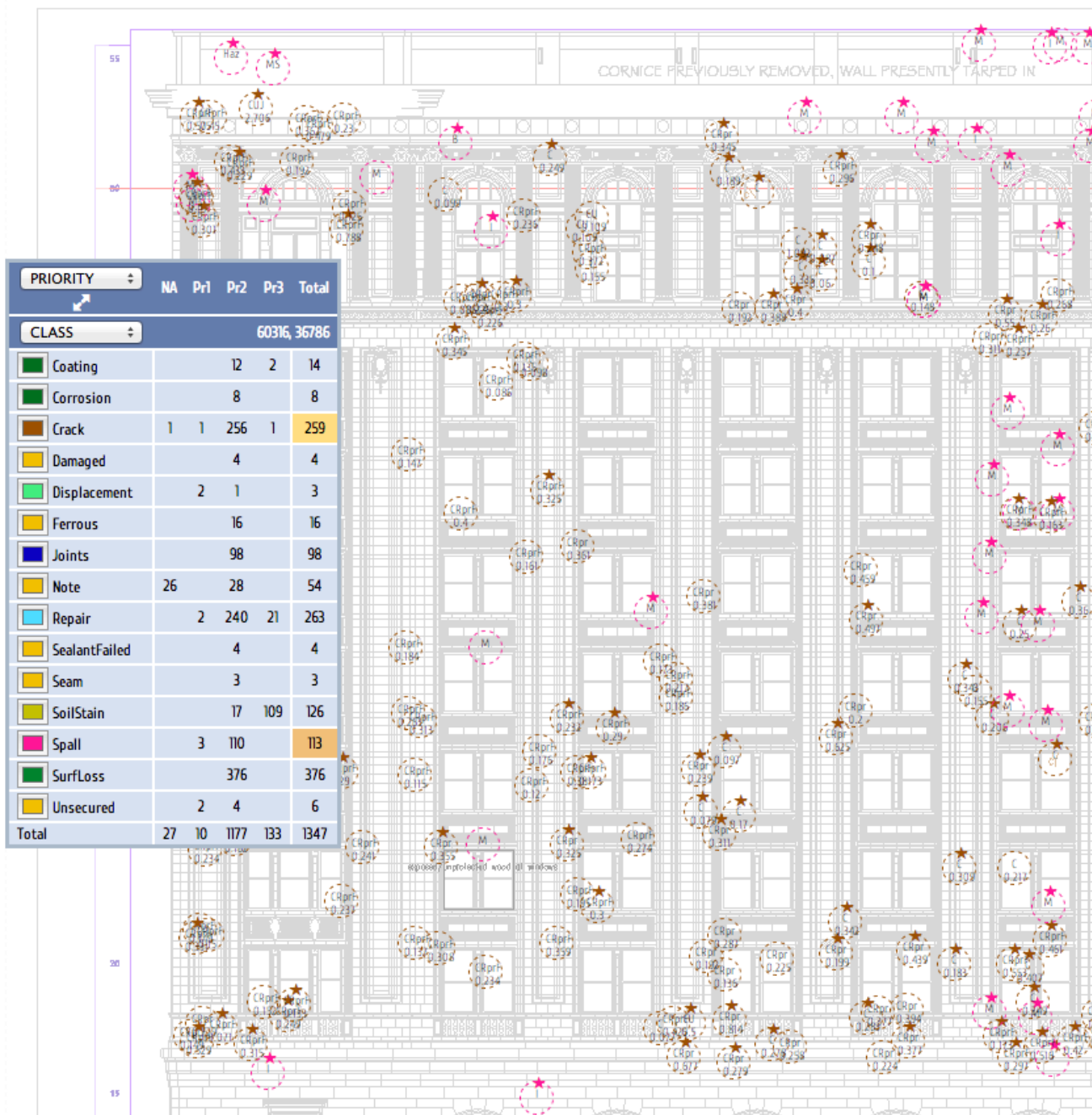
Change the table layout with the drop-down menus in order to make different combinations of data values available for viewing.

In this example, by ordering the table to show the conditions arranged by class and material, we are able to select only the crack conditions in stone.

MATERIAL	ArchMetal	Concrete	Glass	SheetMetal	Stone	TerraCotta	Total
CLASS	56117, 47592						
Coating	1				13		14
Corrosion	8						8
Crack		2			9	248	259
Damaged	3			1			4
Displacement					3		3
Ferrous					3	13	16
Joints					11	87	98
Note	1				16	37	54
Repair					35	228	263
SealantFailed	4						4
Seam				3			3
SoilStain				2	9	115	126
Spall		11			12	90	113
SurfLoss					11	365	376
Unsecured	2			1		3	6
Total	19	11	2	7	106	1202	1347

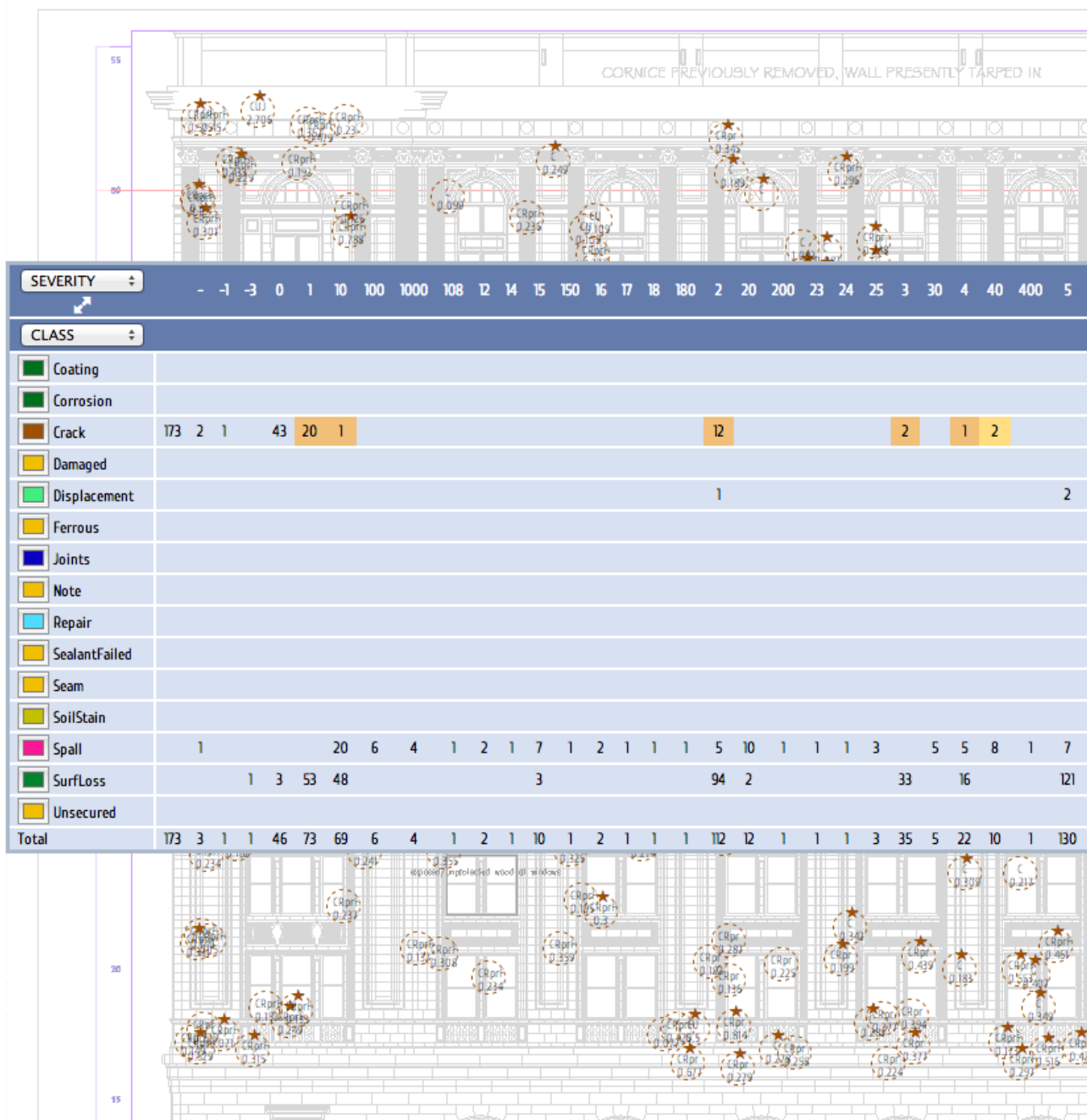
Drawing View

Hold down the control key (CTRL) to select multiple groups of conditions from the table. In this example, we're viewing all of the crack conditions and all of the spall conditions.



Drawing View

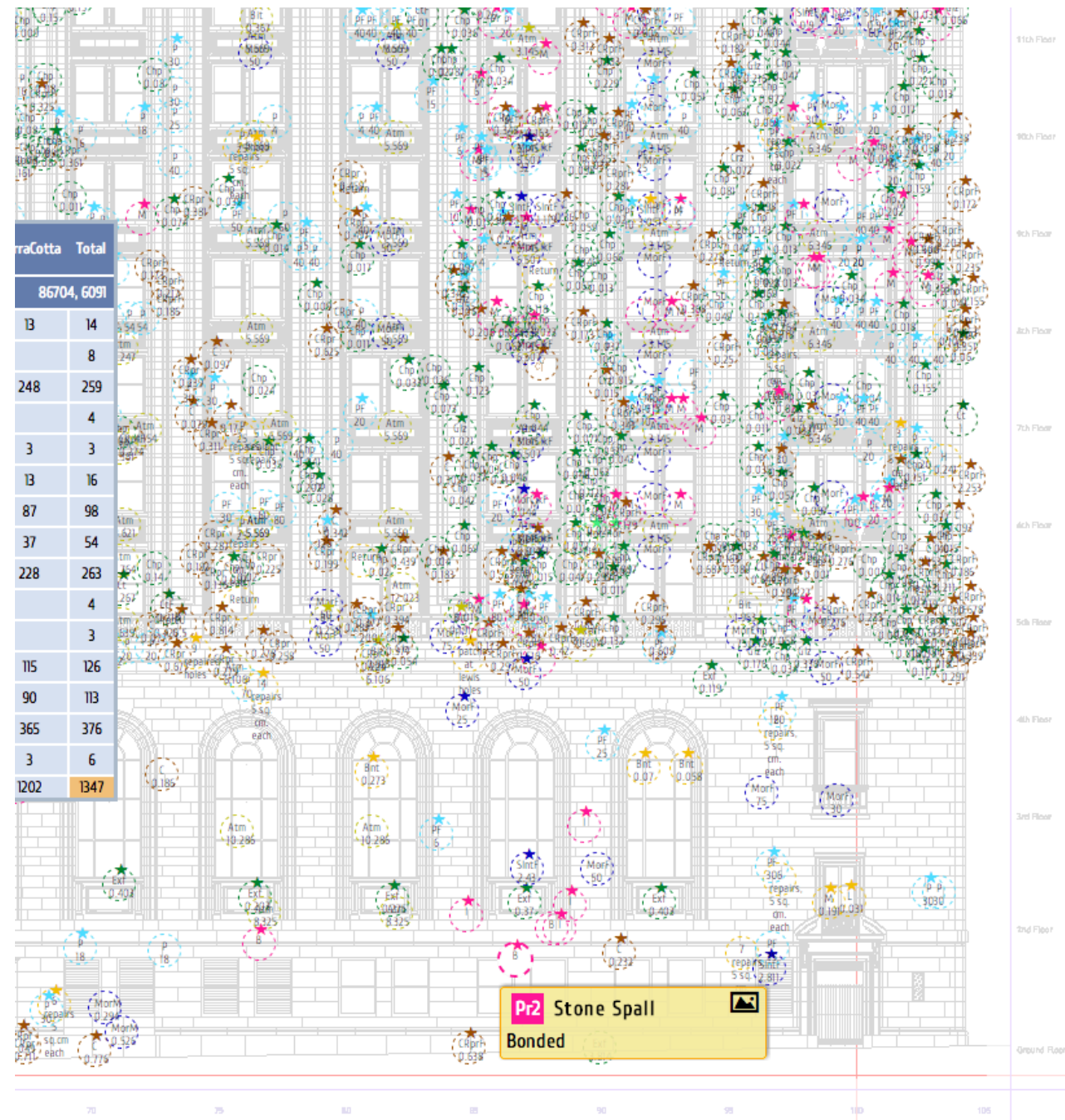
In this example, by ordering the table by class and severity, we are able to use to control (CTRL) key to select all of the crack conditions that are 1/16 inch or greater in width.

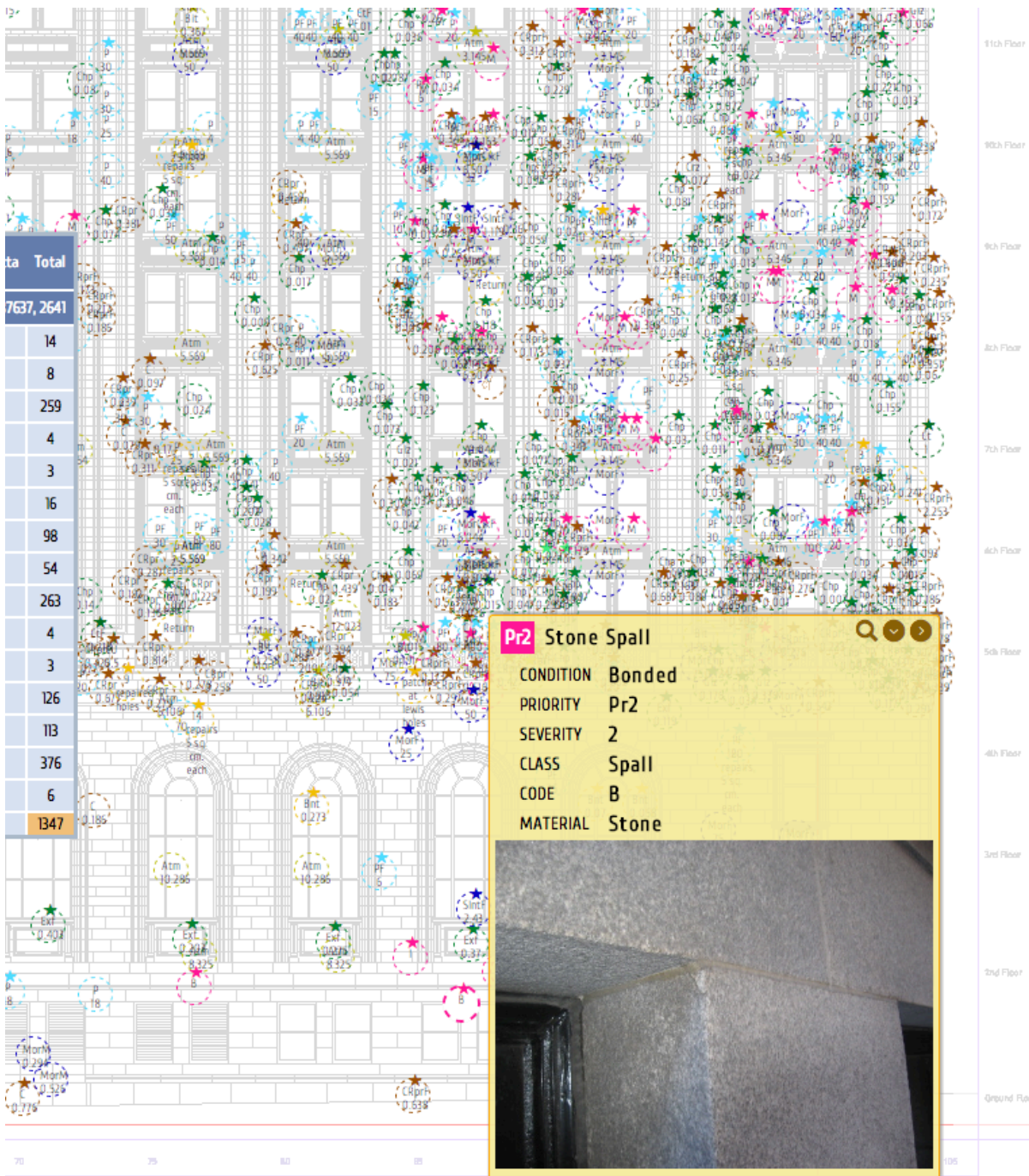


Drawing View

Place the mouse cursor over any notation on the drawing to show a “quick view” box about that notation.

For standard notations, this information will include the material, class, condition, and priority. An icon will appear to indicate that there is a photograph associated with this notation.





Drawing View

Click on the “quick view” box to open a detail view box showing a thumbnail photograph of the condition and additional attributes including severity and code.

Click on the RAW or XLS tabs to export data to a spreadsheet.

Client	
Project	Terra Cotta Facade Inspection
Location	
Description	Heritage Façade Restoration and Cornice Replacement

Summary of PRIORITY by Drawing View

[Filters](#)

PRIORITY ⇒		NA	Pr1	Pr2	Pr3	Total
North	0	0	4	3	1	8
South	0	2	3	38	4	47
East	0	27	10	1177	133	1347
Default	1	0	0	0	0	1
Total	1	29	17	1218	138	1403

Summary of Condition Types

[Views](#)

MATERIAL	CLASS	CONDITION	Quantity	Total Measurement
ArchMetal	Coating	Coating Failed	1	0.01 FT ²
	Corrosion	Pitted	3	36880012 FT ²

TPAS annotations can be customized to match our clients' project nomenclature and data capture needs.

TPAS is primarily used for existing conditions documentation, but its applications are as limitless as your reporting needs. The TPAS Web Portal's collaborative features and go-anywhere accessibility make it ideal for construction administration and other multi-user project applications.

We welcome your feedback as we continually work to improve TPAS and the Web Portal interface. Please share your comments and suggestions with Kelly Streeter, kelly@tpasllc.com.

To schedule a TPAS demo webinar or for questions regarding licenses, call the TPAS Program Manager:

Kelly Streeter
917.749.0998
kelly@tpasllc.com

For technical questions, please contact the TPAS Technical Manager:

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mike@tpasllc.com

For the latest TPAS news, visit the [TPAS website](#) and [TPAS blog](#).