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# SYSTEM REQUIREMENTS

IN ORDER TO USE PLAN ANALYST, YOU MUST HAVE THE FOLLOWING:

1. COMPUTER RUNNING WINDOWS XP, VISTA 7 OR 8.
2. HARD DRIVE WITH AT LEAST 5 MB AVAILABLE FOR PLAN ANALYST.
3. CD DRIVE (USED FOR INSTALLATION ONLY).
4. PRINTER.
5. MOUSE.

**NOTE:** THE MINIMUM SCREEN RESOLUTION REQUIRED IS 1280 X 1024 FOR STANDARD SCREENS AND 1360 X 768 FOR WIDE SCREENS.

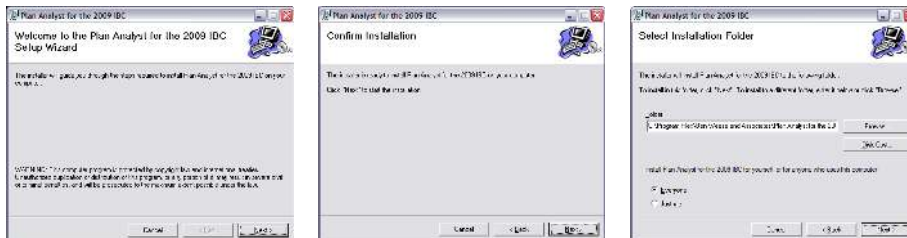
## USER REQUIREMENTS

PLAN ANALYST IS DESIGNED TO ASSIST THE USER IN DETERMINING HOW THE BUILDING CODE REQUIREMENTS APPLY TO A PROJECT AND CREATE CODE STUDIES AND CORRECTION REPORTS. THE USER SHOULD HAVE A BASIC UNDERSTANDING OF THE BUILDING CODE AND A COPY OF THE CODE AVAILABLE FOR ADDITIONAL RESEARCH.

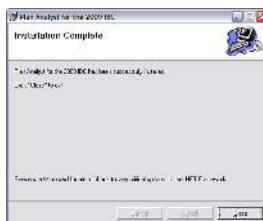
## INSTALLING PLAN ANALYST ON YOUR COMPUTER

1. FIRST INSERT THE PLAN ANALYST CD INTO YOUR CD DRIVE, USUALLY DRIVE D.
2. CLICK **START** LOCATED IN THE LOWER LEFT CORNER OF YOUR SCREEN.
3. CLICK **RUN**
4. IN THE BOX LABELED OPEN, TYPE **D:\SETUP** (MATCH THE LETTER TO YOUR CD DRIVE).
5. PRESS **ENTER** OR CLICK **OK**. **NOTE:** YOU MAY USE THE BROWSE... BUTTON.

**CLICK NEXT ON THE 1<sup>ST</sup> 3 SCREENS**



**CLICK CLOSE ON LAST SCREEN**



# RUNNING PLAN ANALYST FOR THE FIRST TIME

## THIS SCREEN WILL BE DISPLAYED

**NOTE:** THIS INFORMATION MUST BE FILLED OUT COMPLETELY BEFORE YOU CAN CONTINUE.

THE **INSTALLATION CODE** YOU WILL BE ASKED TO INPUT IS LOCATED ON THE **BACK OF THE SOFTWARE CASE NEAR THE BOTTOM.**

THE INFORMATION YOU ENTER MAY BE CHANGED AT A LATER TIME USING THE SETUP PART OF PLAN ANALYST.

## PLAN ANALYST FEATURES

### USING THE KEYBOARD

PRESSING **ENTER** WILL ACCEPT YOUR SELECTIONS AND MOVE CURSOR TO THE NEXT FIELD OR SCREEN.

PRESSING **ESC** WILL MOVE THE CURSOR BACK TO THE LAST FIELD OR SCREEN.

PRESSING **TAB** WILL MOVE THE CURSOR TO THE NEXT FIELD OR SCREEN.

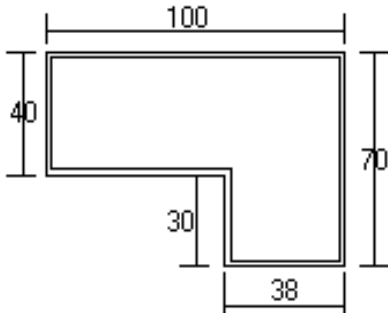
PRESSING **SHIFT+TAB** WILL MOVE THE CURSOR TO THE PREVIOUS FIELD OR SCREEN.

### TEXT BOXES

WHEN YOU ARE ENTERING INFORMATION INTO A TEXT BOX, ALL STANDARD EDITING CAPABILITIES ARE AVAILABLE, DELETE, INSERT, OVERTYPE, ETC. IF YOU NEED TO DELETE CHARACTERS AND TYPE NEW ONES IN THEIR PLACE, **HIGHLIGHT** THE CHARACTERS TO BE DELETED FIRST. YOU MAY DO THIS BY USING YOUR MOUSE TO **HIGHLIGHT** THE WORD OR **DRAW** THE MOUSE CURSOR OVER THE CHARACTERS WITH THE LEFT BUTTON PRESSED. THEN TYPE THE NEW REPLACEMENT CHARACTERS. **NOTE:** YOU MAY ALSO USE THIS METHOD TO DELETE CHARACTERS OR WORDS. HIGHLIGHT CHARACTERS/WORDS TO BE DELETED AND PRESS THE **DELETE** KEY.

### USING THE CALCULATOR

WHEN NUMBERS, SUCH AS DIMENSIONS AND SQUARE FOOTAGE, ARE REQUIRED, A FOUR-FUNCTION CALCULATOR IS BUILT INTO PLAN ANALYST. USE THE **+** FOR ADDITION **-** FOR SUBTRACTION **x** OR **\*** FOR MULTIPLICATION AND **/** FOR DIVISION. ALGEBRAIC LOGIC IS USED (I.E. DIVISION AND MULTIPLICATION ARE ALWAYS DONE BEFORE ADDITION AND SUBTRACTION)



**THERE IS NO NEED TO REACH FOR YOUR CALCULATOR.**  
WHEN ASKED FOR THE FLOOR AREA ENTER:  $100 \times 40 + 30 \times 38$  AND THE FLOOR AREA WILL BE CALCULATED FOR YOU.

### ENTERING DIMENSIONS

DIMENSIONS MAY BE ENTERED USING EITHER DECIMALS OF A FOOT (**10.4167**) OR BY USING THE FEET\_INCHES (**10\_5**) FORMAT. FOR 10 FEET 5 INCHES, YOU ENTER EITHER **10.4167** OR **10\_5**.

## CUT OR COPY AND PASTE USING THE WINDOWS CLIPBOARD

1. **HIGHLIGHT** THE WORD OR WORDS THAT YOU WANT TO MOVE TO OR FROM PLAN ANALYST.
2. IF YOU WANT TO DELETE THE HIGHLIGHTED WORDS AND COPY THEM TO THE CLIPBOARD, SIMPLY PRESS **SHIFT + DELETE** (**AT THE SAME TIME**).
3. TO COPY THE HIGHLIGHTED WORDS TO THE CLIPBOARD, SIMPLY PRESS **CTRL + INSERT** OR **CTRL + C** (**AT THE SAME TIME**).
4. MOVE THE CURSOR TO THE NEW LOCATION.
5. TO PLACE THE SELECTED TEXT AT THE NEW LOCATION, PRESS **SHIFT + INSERT** OR **CTRL+V** (**AT THE SAME TIME**).

## LOCATION OF PROJECT FILES

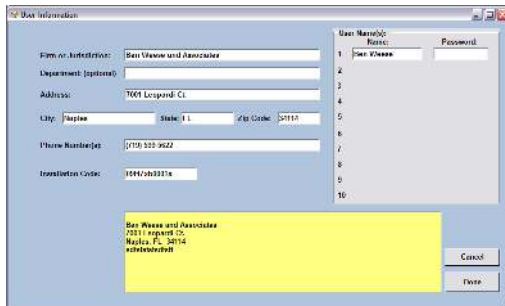
PLAN ANALYST CREATES A SUBDIRECTORY CALLED **PROJECTS** DURING THE SETUP PROCEDURE. IE. C:\PROGRAM FILES\BEN WEESE AND ASSOCIATES\PLAN ANALYST FOR THE 2009 IBC\PROJECTS THIS IS THE DEFAULT LOCATION FOR FILES. YOU MAY CHANGE THIS TO ANY LOCATION YOU PREFER.

## BUILDING SIZE LIMITS

THE MAXIMUM NUMBER OF FLOORS ALLOWED IS 100 (STORIES PLUS BASEMENTS).  
THE MAXIMUM NUMBER OF AREAS ALLOWED PER FLOOR IS 100.  
THE MAXIMUM NUMBER OF AREAS SHARING EXITS PER FLOOR IS 3.  
THE MAXIMUM NUMBER OF FIRE WALLS ALLOWED IS 3

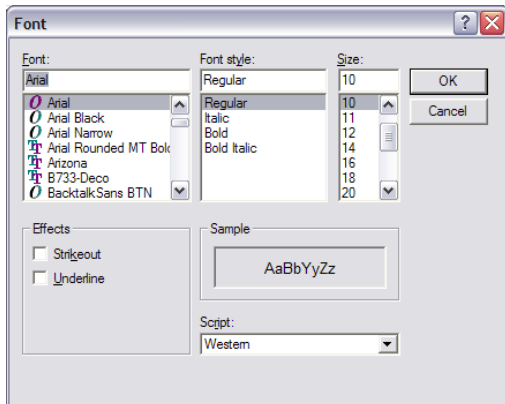
## SETUP PULL-DOWN MENU (LOCATED BELOW THE TITLE BAR)

### USER INFORMATION



THE INFORMATION ASKED ON THIS FORM IS NEEDED TO PRODUCE THE HEADER ON ALL PLAN ANALYST REPORTS. ONCE THIS INFORMATION IS INPUT IT WILL BE USED UNTIL YOU CHANGE IT. TO CHANGE THE HEADER INFORMATION SUCH AS A CHANGE IN ADDRESS, CONTACT NUMBERS OR CONTACT PERSON SIMPLY RETURN TO THIS FORM AND REPLACE THE OUTDATED INFORMATION.

### FONT SETUP



THIS ALLOWS YOU TO CHANGE THE FONT STYLE OR SIZE FOR ALL REPORTS. YOU SIMPLY CHOOSE THE FONT, STYLE AND SIZE. THEN CLICK **OK**.

## **USE SI (THE METRIC SYSTEM) AS DEFAULT (2009 GLOBAL VERSION ONLY)**

**WHEN YOU SELECT THIS, THE FOLLOWING FORM WILL BE SHOWN.**

Select Measurement System

Input measurements

☐ Use SI ( the metric system ) for input

☒ Use US standard measurements for input

Report measurements

☐ Use SI ( the metric system ) for reports

☒ Use US standard measurement for reports

Done

**IF YOU ARE ONLY USING SI UNITS, SELECT USE SI FOR BOTH INPUT AND REPORT.**

- 1. IF YOU ARE ONLY USING US UNITS, SELECT USE US FOR BOTH INPUT AND REPORT.**
  - 2. IF THE PLANS ARE IN SI BUT YOU NEED THE REPORT IN US UNITS, SELECT SI FOR INPUT AND US FOR REPORT.**
  - 3. IF THE PLANS ARE IN US BUT YOU NEED THE REPORT IN SI UNITS, SELECT US FOR INPUT AND SI FOR REPORT.**
- ALL CONVERSION OF UNITS WILL BE DONE FOR YOU.**

## **SET DEFAULTS FOR REPORT TYPE**

Select Report Detail

Code study report (output) options

Allowable Area

☐ Detailed

☒ Table Format

Exiting

☐ Detailed

☒ Table Format

Plumbing Fixtures (Number Required)

☐ Detailed

☒ Table Format

Building Accessibility

☐ Detailed

☒ Summary

Accessible Facilities

☐ Detailed

☒ Summary

Penetration Requirements

☐ Detailed

☒ Summary

Glazing

☐ Detailed

☒ Summary

Light and Ventilation

☐ Detailed

☒ Summary

DETAILED REPORT: When this selected, allowable area results, detailed exiting requirements and required plumbing fixtures are shown for each area and each floor.

EXAMPLE:

Office: Occupancy Group = B Actual floor area = 10,000.00 Sq.feet Allowed floor area = 21,388.89 Ratio = .47 (Table 503 and 506)

Number of occupants = 100.0 Based on 100.0 square feet per occupant. (1004.1.1)

Minimum number of exits = 2 (1015.1) Number of exits provided = 2 Number of exits ok.

Minimum exit width = 20.00 inches. (1005.1) Width of exits provided = 72.00 inches. Width of exits ok.

The maximum length of exit access is 200.00 feet. (Table 1016.1) The travel distance of 60.00 feet is ok.

Egress doors shall be of the pivoted or side-hinged swinging type. (1008.1.2)

Egress doors shall swing in the direction of egress travel. (1008.1.2)

Exception 9: Manually operated horizontal sliding doors are permitted from spaces with an occupant load of 10 or less.

Exits and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel. (1011.1)

Corridor(s) in this area are required to have a 1-hour fire-resistive rating. (1016.1)

Minimum number of plumbing fixtures: (2902.1)

Water closets: Male = 2 Female = 2 Lavatories: Male = 2 Female = 2 Drinking fountains = 1

Detailed requirements are shown for Building Accessibility, Accessible Facilities, Penetration Requirements, Glazing and Light and Ventilation.

TABLE REPORT: When this selected, tables show allowable area, exiting and/or required plumbing fixtures.

FL	NAME OF AREA	NUMB OF OCC	MIN EXIT	MIN WIDTH	PANIC HWDR	DOOR SWNG	FIRE RATING	CORRIDOR TRVL	MAX DIST	NOTES
F3	Open Office	485	2	97	no	OUT	N/A	300	1	
F3	Conference room	100	2	20	YES	OUT	N/A	250	1	12
	TOTAL 3rd FLOOR	585	3	117	YES	OUT	N/A	250	5	12
F2	Office	305	2	61	no	OUT	N/A	300	1	
F2	Office	25	1	5	no	any	N/A	300		
F2	Office	150	2	30	no	OUT	N/A	300	1	
F2	(A) Corridor	15	1	3	no	any	N/A	300		
F2	(A) Toilets	5	1	1	no	any	N/A	300		
	TOTAL 2nd FLOOR	480	2	96	no	OUT	NONE	300	5	

EXAMPLE OF A COMMON SETTING

Exiting = Detailed

All others = Summary

Set all to Detailed

Set all to Table/Summary

Done

**THIS SETS THE DEFAULTS FOR THE CODE STUDY REPORTS. YOU SHOULD SELECT THE OPTION THAT CREATES THE TYPE OF REPORT YOU PREFER MOST OF THE TIME. YOU WILL HAVE THE OPTION TO OVERRIDE THE DEFAULT EACH TIME YOU CREATE A REPORT.**

**FOR ALLOWABLE AREA, EXITING AND PLUMBING FIXTURES:**

- 1. IF SUMMARY IS SELECTED, THE REPORT WILL GROUP EACH SUBJECT TOGETHER IN A TABLE.**
  - 2. IF DETAIL FOR ALL IS SELECTED, INFORMATION WILL BE GROUPED BY AREA AND FLOOR.**
- SEE EXAMPLES IN YELLOW BOXES ABOVE.**

**FOR ALL GROUPS, LESS INFORMATION WILL BE PROVIDED IF SUMMARY IS SELECTED.**

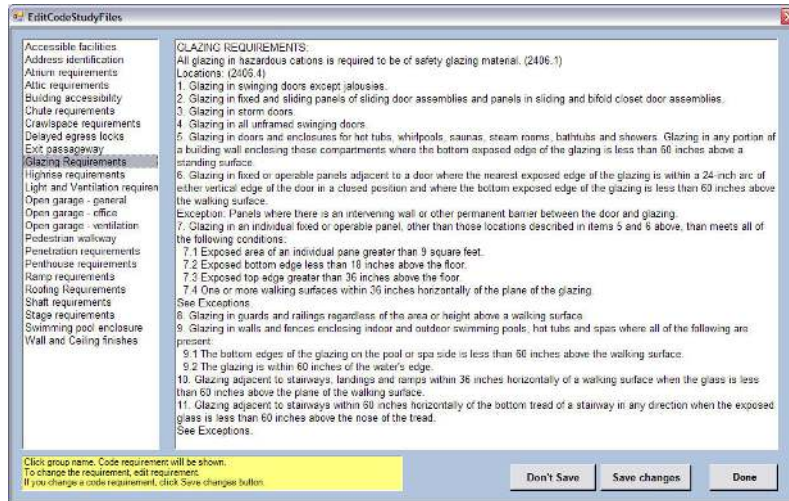
## **LOCATION OF PREVIOUS PROJECTS**

**THIS ALLOWS YOU TO SET A NEW LOCATION FOR FILES CONTAINING PREVIOUS PROJECTS.**

**NOTE:** IF YOU CHANGE THE LOCATION, YOU WILL NEED TO COPY EXISTING PROJECTS TO THE NEW LOCATION.

## EDIT CODE STUDY REQUIREMENTS

THIS ALLOWS YOU TO REVIEW OR CHANGE CODE REQUIREMENTS FOR CODE STUDIES.  
YOU CAN CHANGE WORDING TO MATCH LOCAL REQUIREMENTS OR YOUR PREFERRED WORDING.



CLICK **REQUIREMENT NAME** IN LEFT BOX.  
CORRESPONDING CODE REQUIREMENTS  
WILL BE SHOWN IN THE RIGHT BOX.

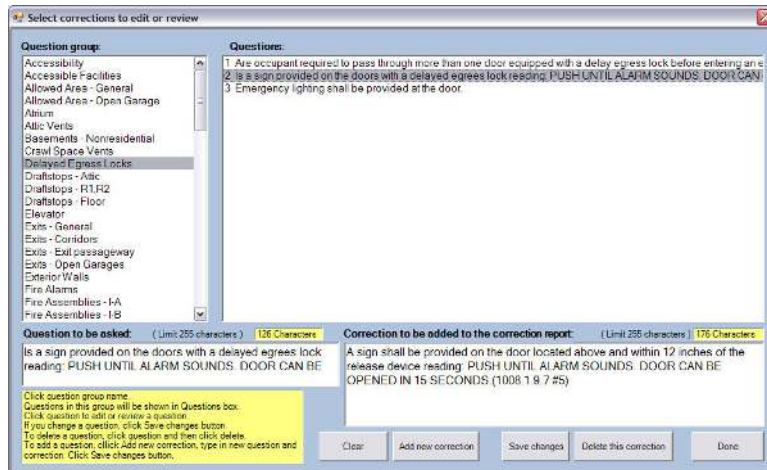
YOU MAY EDIT THE REQUIREMENT BEFORE  
SAVING.

CLICK THE **SAVE CHANGES** BUTTON AFTER  
EDITING EACH REQUIREMENT.

CLICK ANOTHER REQUIREMENT **NAME OR**  
CLICK THE **DONE** BUTTON.

## EDIT QUESTIONS FOR CORRECTION REPORT

YOU CAN ADD, MODIFY OR DELETE QUESTIONS ASKED DURING THE CREATION OF EACH NEW CORRECTION  
REPORT. THIS ALLOWS YOU TO ADJUST QUESTIONS TO SHOW LOCAL CONDITIONS OR PREFERENCES.



### TO EDIT A QUESTION

1. CLICK **QUESTION GROUP** ON THE LEFT  
THEN CLICK THE **QUESTION** YOU WANT  
TO EDIT ON THE RIGHT. THE QUESTION  
AND CORRECTION WILL SHOW IN THE  
BOTTOM BOXES READY FOR YOU TO  
EDIT.
2. EDIT QUESTION AND/OR CORRECTION
3. CLICK **SAVE CHANGES**.
4. WHEN YOU HAVE COMPLETED ALL  
CHANGES CLICK **DONE**

### TO DELETE A QUESTION

1. CLICK **QUESTION GROUP** ON THE LEFT, THEN CLICK **THE QUESTION YOU WANT TO DELETE** ON THE  
RIGHT. THE QUESTION AND CORRECTION WILL SHOW IN BOTTOM BOXES READY FOR YOU TO  
DELETE.
2. CLICK **DELETE THIS QUESTION**
3. CLICK **SAVE CHANGES**.
4. WHEN YOU HAVE COMPLETED ALL CHANGES **CLICK DONE**

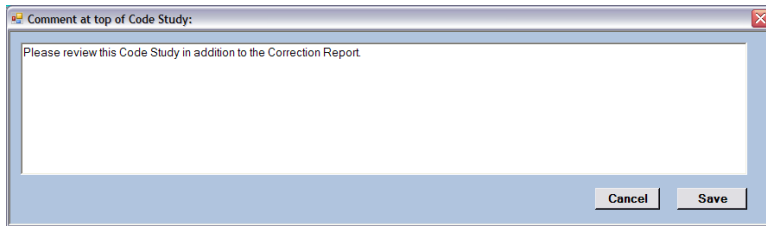
### TO ADD A NEW QUESTION AND CORRECTION

1. CLICK **QUESTION GROUP** ON THE LEFT.
2. CLICK THE **CLEAR** BUTTON.
3. TYPE IN THE NEW QUESTION AND NEW CORRECTION.
4. CLICK **ADD NEW CORRECTION** BUTTON
5. WHEN YOU HAVE COMPLETED ALL CHANGES **CLICK DONE**.



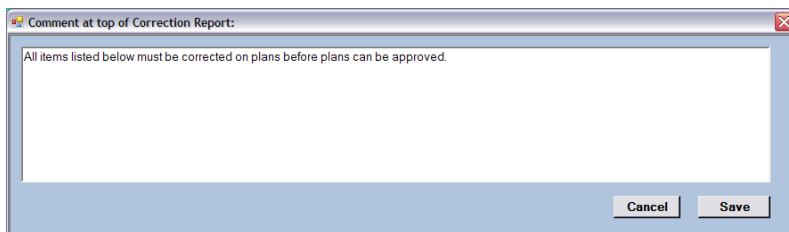
## EDIT CUSTOMIZED COMMENT FOR CODE STUDY REPORTS

INFORMATION ENTERED HERE SHOWS UP AT THE TOP OF ALL CODE STUDY REPORTS.  
THIS WOULD ALLOW YOU TO ENTER STANDARD INFORMATION OR DISCLAIMERS THAT YOU WANT TO SHOW ON ALL CODE STUDY REPORTS.



## EDIT CUSTOMIZED COMMENT FOR CORRECTION REPORT

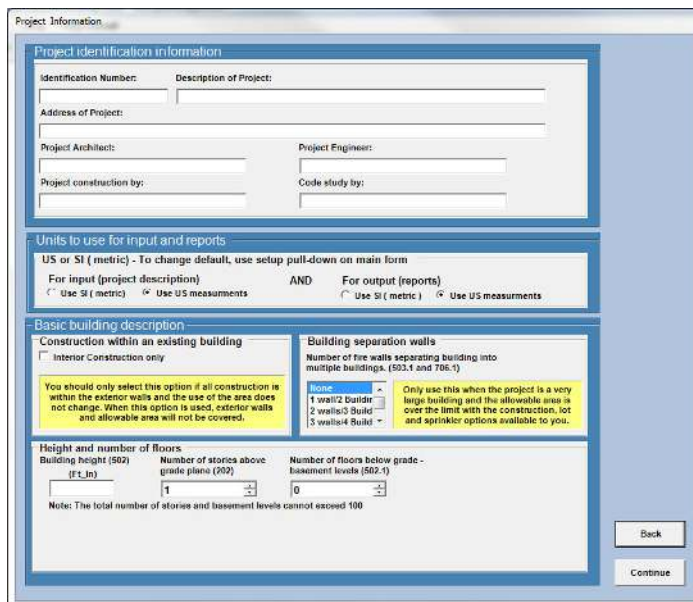
INFORMATION ENTERED HERE SHOWS UP AT THE TOP OF ALL CODE CORRECTION REPORTS.  
THIS WOULD ALLOW YOU TO ENTER STANDARD INFORMATION OR DISCLAIMERS THAT YOU WANT TO SHOW ON ALL CORRECTION REPORTS.



## ENTERING A PROJECT DESCRIPTION

CLICK THE **IBC PROJECT BUTTON** ON THE LEFT SIDE OF SCREEN OR CLICK **PROJECT** ON THE PULL-DOWN MENU, THEN CLICK **NEW PROJECT** AND CLICK **ALL OTHER IBC PROJECTS**.

### PROJECT INFORMATION



1. ENTER THE INFORMATION ABOUT THE PROJECT.
2. IF THIS IS A LARGE BUILDING REQUIRING FIRE WALLS TO SEPARATE THE BUILDING INTO MULTIPLE BUILDINGS, CLICK ON THE **NUMBER OF FIRE WALLS**. **NOTE:** FIREWALLS REQUIRED FOR USE SEPARATION, EXITS, LOCATION ON PROPERTY, ETC. ARE CALCULATED FOR YOU.
3. ENTER THE HEIGHT OF THE BUILDING.
4. CLICK **UP-DOWN** ARROWS TO SELECT THE NUMBER OF STORIES ABOVE GRADE
5. IF THERE ARE BASEMENT LEVELS, CLICK **UP-DOWN** ARROWS TO SELECT THE NUMBER OF FLOORS BELOW GRADE.
6. CLICK THE **CONTINUE** BUTTON.

**NOTE:** IF YOU DIVIDE THE BUILDING INTO MULTIPLE BUILDINGS WITH FIRE WALL(S), YOU WILL NEED TO ENTER 3, 4 AND 5 FOR EACH BUILDING.

### UNITS TO USE FOR INPUT AND REPORTS (2009 GLOBAL VERSION ONLY)

IF YOU ARE ONLY USING SI UNITS, SELECT USE SI FOR BOTH INPUT AND REPORT.

1. IF YOU ARE ONLY USING US UNITS, SELECT USE US FOR BOTH INPUT AND REPORT.

2. IF THE PLANS ARE IN SI BUT YOU NEED THE REPORT IN US UNITS, SELECT SI FOR INPUT AND US FOR REPORT.
  3. IF THE PLANS ARE IN US BUT YOU NEED THE REPORT IN SI UNITS, SELECT US FOR INPUT AND SI FOR REPORT.
- ALL CONVERSION OF UNITS WILL BE DONE FOR YOU.

## BUILDING INTERIOR

CLICK ON THE **FLOOR** THAT YOU ARE ENTERING OR EDITING.

### FOR EACH FLOOR

ENTER INFORMATION REQUESTED IN TOP 2 BOXES

### FOR EACH AREA ON THE FLOOR

1. CLICK THE **NAME OF THE AREA** IN THE INTENDED USE: LIST.
2. ENTER THE **FLOOR AREA**. **NOTE:** WHEN A NUMBER IS REQUIRED, PLAN ANALYST HAS A BUILT-IN CALCULATOR. IE. **20\_6 x 13** FOR 20'6" TIMES 13'
3. CLICK ANY **OTHER OPTION** THAT APPLIES TO THIS AREA. **NOTE:** SOME USES HAVE ADDITIONAL OPTIONS IN THE GRAY AREA BELOW "INTENDED USE" THAT ARE NOT SHOWN IN THIS EXAMPLE.
4. CLICK **ADD TO MAIN FLOOR** OR **ADD TO MEZZANINE** AFTER THE INFORMATION FOR EACH AREA IS COMPLETED.
5. WHEN ALL AREAS ON ALL FLOORS ARE COMPLETED, CLICK THE **CONTINUE** BUTTON.

## NOTES:

1. THE TOTAL FLOOR AREA IS SHOWN IN THE BOTTOM LEFT CORNER. MAKE SURE THAT THE TOTAL FLOOR AREA MATCHES THE PLANS. MOST FLOORS WILL HAVE A "NONHABITABLE AREA" TO ACCOUNT FOR WALLS, SHAFTS, ETC.
2. SOME USES ALLOW YOU TO SELECT FIXED SEATING. WHEN YOU SELECT FIXED SEATING, YOU WILL NEED TO ENTER THE **NUMBER** OF OCCUPANTS.
3. WHEN YOU SELECT **SKATING RINK** OR **SWIMMING POOL** YOU WILL BE ASKED FOR THE AREA OF THE POOL OR RINK. THIS IS BECAUSE THE POOL OR RINK HAS A DIFFERENT AREA PER OCCUPANT THAN THE AREA AROUND THE POOL OR RINK. IF THERE IS SPECTATOR SEATING, YOU WILL NEED TO ENTER THE TOTAL **NUMBER** OF OCCUPANTS **INCLUDING POOL OR RINK AND SPECTATOR AREA**.
4. PLAN ANALYST WILL DEFAULT TO THE CORRECT OCCUPANCY GROUP AND AREA PER OCCUPANT. THERE IS NO NEED TO CHANGE THESE.
5. OPTIONAL INFORMATION FOR THE FLOOR IN THE UPPER RIGHT CORNER AND AREA INFORMATION AT THE BOTTOM **MAY BE LEFT BLANK** BUT IF YOU ENTER THIS INFORMATION, THE CODE STUDY WILL ALSO **SHOW IF THE NUMBER OF EXITS, THE WIDTH OF EXITS, AND THE TRAVEL DISTANCES ARE CORRECT**. ENTERING THIS INFORMATION WILL ALSO ALLOW YOU TO ADD THESE PROBLEMS TO THE CORRECTION REPORT AUTOMATICALLY.
6. YOU MAY MOVE BACK AND FORTH THROUGH THE FLOORS AND AREAS BY CLICKING THE **NAME OF FLOOR OR AREA** IN THE LIST BOXES ON THE LEFT SIDE. WHEN AN AREA IS SELECTED, YOU MAY EDIT OR DELETE IT.
7. IF SOME OF THE AREAS ON A FLOOR SHARE THE SAME EXIT SYSTEM SUCH AS SUITE, DEPARTMENT, ETC. AND YOU WANT TO SEE THE EXIT REQUIREMENTS FOR THIS AREA ALONE, CLICK THE **EXIT SHARING** BUTTON.



## EXIT SHARING

The ExitSharing window displays a list of areas on the left, categorized into 'Areas not sharing exits' and three 'Shared exits' areas. The 'Areas not sharing exits' list contains 'Office 101' and 'Office 103'. 'Shared exits - Area 1' contains 'Office 102' and 'Conference room'. The other two shared exit areas are currently empty. Below the lists, there are checkboxes for 'Contains corridor' and input fields for 'Number of exits', 'Total width of exits', 'Common path travel distance', and 'Maximum travel distance'. A yellow instruction box at the bottom explains how to move areas between lists by dragging. A 'Done' button is at the bottom right.

Areas not sharing exits	Shared exits - Area 1	Shared exits - Area 2	Shared exits - Area 3
1 Office 101 3 Office 103	2 Office 102 4 Conference room		

(optional) Number of exits: 2  
(optional) Total width of exits: 72  
Common path travel distance:  
Maximum travel distance: 24

When areas share the same exits within a floor, move the name of an area from the list on the left to a shared exits list above.  
To do this, click on the name and drag it to the box containing the names of areas that it shares exits with.  
To remove an area from a shared exit list, click on it and press the delete key.

Done

1. WHEN YOU CLICK THE **EXIT SHARING** BUTTON THIS SCREEN WILL BE DISPLAYED.
2. ALL AREAS ON THIS FLOOR WILL BE DISPLAYED IN THE LEFT LIST BOX (AREAS NOT SHARING EXITS)
3. YOU MAY HAVE UP TO **3** DIFFERENT SHARED AREAS.
4. TO ADD AN AREA TO SHARED EXITS CLICK ON THE **NAME OF THE AREA** IN THE **AREAS NOT SHARING EXITS** BOX AND **HOLD THE MOUSE BUTTON DOWN** WHILE DRAGGING IT TO THE **SHARED EXITS 1** LIST BOX.
5. **RELEASE** THE MOUSE BUTTON
6. IN THIS EXAMPLE, I HAVE MOVED **OFFICE 102** AND THE **CONFERENCE ROOM** TO **SHARED EXITS 1**.
7. FILL IN THE INFORMATION FOR **SHARED EXITS 1** BELOW.
8. CLICK **DONE**.

**NOTE:** IN ADDITION TO SHOWING THE EXIT REQUIREMENTS FOR EACH AREA AND THE FLOOR, THE CODE STUDY WILL SHOW THE EXIT REQUIREMENTS FOR EACH SHARED EXIT AREA.

## PROPERTY DESCRIPTION (ALL EXCEPT 2012 IBC)

The Property/lot Description window is divided into two main sections. The top section, 'Information required to determine allowed area, frontage increase (506.2)', includes input fields for 'Perimeter of the entire building (feet)', 'Building perimeter that fronts on a public way or open space having 20 feet open measurement width (feet) (506.2)', and 'Width of public way or open space (feet) (506.2.1)'. A yellow note specifies that such open spaces must be either on the same lot or dedicated for public use and accessed from a street or approved fire lane. The bottom section, 'Information required to determine exterior wall requirements', lists four sides (North, East, South, West) with dropdown menus to select the boundary type (e.g., 'Lot line (702.1)', 'Street, an alley or public way (702.1)', 'Fire line (702.1)', 'Fire wall separating buildings (704.3)', 'Fire wall separating buildings (705.1)') and a text field for the distance 'To Property Line'. 'Quit', 'Back', and 'Continue' buttons are on the right.

Information required to determine allowed area, frontage increase (506.2)

Perimeter of the entire building (feet):  
Building perimeter that fronts on a public way or open space having 20 feet open measurement width (feet) (506.2):  
Width of public way or open space (feet) (506.2.1):

Such open spaces shall be either on the same lot or dedicated for public use and shall be accessed from a street or approved fire lane. (506.2.2)

Information required to determine exterior wall requirements

North Side: Lot line (702.1) To Property Line  
East Side: Fire line (702.1) To Property Line  
South Side: Lot line (702.1) To Property Line  
West Side: Lot line (702.1) To Property Line

Quit  
Back  
Continue

### TO ENTER THE PROPERTY DESCRIPTION

1. ENTER THE **PERIMETER** OF THE BUILDING, THE OPEN PERIMETER AND THE MINIMUM WIDTH OF ACCESSIBLE OPEN SPACE AROUND THE BUILDING.
2. FOR EACH SIDE, SELECT THE **BOUNDARY** (LOT LINE, STREET, ETC) AND **ENTER THE REQUIRED DISTANCE(S)**.
3. CLICK THE **CONTINUE** BUTTON.

## PROPERTY DESCRIPTION (2012 IBC VERSION)

This version of the Property/lot Description window includes additional input fields for 'Side length' and 'Side length' for each side. It also includes checkboxes for 'Side accessed from a street or approved fire lane (506.2.2)' and 'Side accessed from a street or approved fire lane (506.2.2)'. The 'Quit', 'Back', and 'Continue' buttons are at the bottom.

Property/lot Description

Used to determine exterior wall fire-resistance requirements and to determine allowed area frontage increase (506.2)

North Side: Lot line (702.1) To Property Line Side length: Side accessed from a street or approved fire lane (506.2.2)  
East Side: Lot line (702.1) To Property Line Side length: Side accessed from a street or approved fire lane (506.2.2)  
South Side: Lot line (702.1) To Property Line Side length: Side accessed from a street or approved fire lane (506.2.2)  
West Side: Lot line (702.1) To Property Line Side length: Side accessed from a street or approved fire lane (506.2.2)

Quit Back Continue

### TO ENTER THE PROPERTY DESCRIPTION

1. FOR EACH SIDE, SELECT THE **BOUNDARY** (LOT LINE, STREET, ETC) **ENTER THE REQUIRED DISTANCE(S)**. **ENTER THE LENGTH OF THE SIDE THAT FACES THE BOUNDARY**. **CLICK THE CHECK BOX IF THIS SIDE CAN BE ACCESSED FROM A STREET OR FIRE LANE**.
2. CLICK THE **CONTINUE** BUTTON.

## SELECTING CONSTRUCTION TYPE

1. YOU MAY EITHER CLICK A **BUTTON** TO CHECK MULTIPLE CONSTRUCTION TYPES OR CLICK **CHECK BOXES** BESIDES THE TYPE OF CONSTRUCTION THAT YOU ARE CHECKING.
2. IF THE BUILDING HAS A SPRINKLER SYSTEM, YOU MAY EITHER CLICK A **SPRINKLER** BUTTON OR **SPRINKLER CHECK** BOXES.
3. IF THERE IS MORE THAN ONE USE IN THE BUILDING, SELECT **SEPARATION OF USES**.

THIS SCREEN IS INTERACTIVE. THE ALLOWED TYPES OF CONSTRUCTION: LIST BOX WILL CHANGE TO SHOW THE ALLOWED TYPES OF CONSTRUCTION EACH TIME YOU MAKE A CHANGE. THIS ALLOWS YOU TO QUICKLY TRY DIFFERENT OPTIONS. THIS WILL HELP YOU QUICKLY DETERMINE IF YOU NEED TO SEPARATE USES OR ADD A SPRINKLER SYSTEM.

THE ALLOWED TYPES OF CONSTRUCTION WILL SHOW IN THE UPPER RIGHT CORNER.

SELECT THE **CONSTRUCTION TYPE** THAT YOU ARE USING.

IF YOU WANT TO CHECK ONLY ONE TYPE, SELECT **ONLY ONE TYPE** AND THEN THE **CONTINUE** BUTTON. THE REPORT WILL SHOW ALLOWABLE AREA, HEIGHT AND STORIES SO YOU WILL BE ABLE TO SEE IF THESE USES ARE ALLOWED IN THIS BUILDING.

## ADDITIONAL COMPONENTS

CLICK THE **CHECK BOX** FOR EACH **COMPONENT** THAT IS INCLUDED IN THIS PROJECT.

IF YOU WANT THE REQUIRED NUMBER OF PLUMBING FIXTURES TO BE INCLUDED IN THIS REPORT, CLICK THE BOX FOR **CODE STUDY TO INCLUDE REQUIRED NUMBER OF PLUMBING FIXTURES**

CLICK THE **NEXT** BUTTON.

THE PROJECT DESCRIPTION IS NOW COMPLETE AND THE CODE STUDY WILL BE CREATED. THE REPORT IS DISPLAYED ON THE MAIN SCREEN

YOU MAY SAVE AND OR PRINT THIS REPORT.

IF YOU SEE SOMETHING THAT YOU WANT TO CHANGE, CLICK **PROJECT**, THEN CLICK:

- EDIT GENERAL INFORMATION** (TO CHANGE PROJECT INFORMATION) OR
- EDIT AREA INFORMATION** (TO CHANGE INFORMATION ABOUT FLOORS OR AREA) OR
- EDIT PROPERTY/LOT INFORMATION** (TO CHANGE PERIMETER OR DISTANCE TO LOT LINES) OR
- EDIT CONSTRUCTION TYPE** (TO CHANGE CONST. TYPE, SPRINKLER INFO., OR USE SEPARATION) OR
- EDIT ADDITIONAL FEATURES** (TO CHANGES STAIRS, RAMPS, LOCKS, PENTHOUSE, ETC.)

# SAVING PROJECT DESCRIPTION AND CODE STUDY

1. **SAVE CURRENT PROJECT DESCRIPTION** — SAVES INPUT DESCRIPTION OF PROJECT. NEEDED TO EDIT PROJECT DESCRIPTION.
2. **SAVE CODE STUDY** — SAVES THE ACTUAL REPORT SO THAT YOU CAN SEND THE ACTUAL REPORT TO ANOTHER OFFICE OR LOAD INTO A WORD PROCESSOR LIKE MICROSOFT WORD. THE FILE IS SAVED IN THE PROJECTS FOLDER WITH THE EXTENSION OF .RTF (EG. MYPROJECT.RTF).

## CORRECTION REPORT

PLAN ANALYST CREATES A CHECKLIST FOR THIS PROJECT. THE QUESTIONS IN THE CHECKLIST ARE SELECTED BASED ON THE CODE STUDY SO YOU WILL NOT BE ASKED QUESTIONS THAT DO NOT APPLY TO THIS PROJECT.

YOU MAY EITHER SCROLL THROUGH THE LIST AND PICK QUESTIONS BASED ON YOUR REVIEW OF THE PLANS OR CLICK THE **GO THROUGH QUESTIONS ONE BY ONE** BUTTON AND PLAN ANALYST WILL LEAD YOU THROUGH EACH QUESTION ON THE CUSTOMIZED LIST.

TO ADD PROBLEMS NOTED IN THE CODE STUDY, CLICK THE **ADD PROBLEMS NOTED IN THE CODE STUDY BUTTON**. **NOTE: YOU WILL NEED TO ADD PLAN LOCATION AND PROJECT LOCATION TO THESE.**

The screenshot shows a software window titled "Create a report showing required plan corrections". It contains two main sections. The top section, "Questions to review for correction report", includes a yellow instruction box and a list of 14 questions. On the left of this section are three buttons: "Go through questions one by one", "Add problems noted in code study report", and "Add correction to the report that is not on the list". The bottom section, "Corrections added to report", shows two example entries: "A-2:Door 105:This opening is required to be protected with a 1 hour fire assembly since it is in an occupancy separation wall. (Table 715.4)" and "A-3:Door 207:The doors from this area are required to swing in the direction of exit travel. (1008.1.2)". To the left of this section are buttons for "Use these buttons to edit the report", "Sort by Plan Location", "Sort by Project Location", "Sort by order added to list", "Delete a correction", and "Edit a correction". A "Report complete" button is located at the bottom right.

WHEN YOU NOTE A PROBLEM ON THE PLANS, THE FOLLOWING SCREEN IS DISPLAYED. YOU ENTER THE PROBLEM ON THE PLANS AND IDENTIFY THE PROJECT LOCATION.

The screenshot shows a dialog box titled "Question Selected". It contains a text area with the question: "Do doors from areas with an occupant load of 50 or more and H areas swing out?". Below this is a "Correction input" section with two text boxes: "Plan Location:" (containing "A-3") and "Project Location:" (containing "Door 207"). To the right of these boxes is a text area for the "Correction required on plans:", which contains the text: "The doors from this area are required to swing in the direction of exit travel. (1008.1.2)". At the bottom of the dialog are four buttons: "Stop going through questions", "Don't add to report", "Add to top of report", and "Add to end of report".

WHEN YOU HAVE COMPLETED THE LIST OF QUESTIONS, CLICK THE **REPORT COMPLETE BUTTON**. THIS WILL CREATE THE CORRECTION REPORT. TO REVIEW THE CORRECTION REPORT, CLICK **THE REQUIRED CORRECTIONS TAB** ON THE MAIN SCREEN TO REVIEW THE REPORT.

## SAVING THE CORRECTION REPORT:

IN SAVE BOX, CLICK **CORRECTION REPORT** BUTTON OR **SAVE CORRECTION REPORT** UNDER THE **CORRECTION REPORT PULL-DOWN MENU**.

THIS WILL SAVE TWO FILES.

1. **.CSc** = DATA FILE NEEDED BY PLAN ANALYST TO RECREATE CORRECTION REPORT FOR EDITING.
2. **\_CR.RTF** = ACTUAL CORRECTION REPORT. USE THIS FILE TO SEND A REPORT TO ANOTHER OFFICE OR TO LOAD INTO A WORD PROCESSOR SUCH AS MICROSOFT WORD. (EG. MYPROJECT\_CR.RTF)

## OPEN PARKING GARAGE

### BASIC INFORMATION

Open garage description

Project identification information

Identification number: 1234-08 Description of project: Example of Open Garage

Address of project: 7001 Leopardi Ct.

Project architect: GGG Architects Project engineer: VVV Engineering

Project construction by: ZZZ Construction Code study by: Ben Wozniak

Size of garage

Number of tiers: 6 Floor area per tier: 2000 Square feet Height of garage: 5 Feet\_inches

Features of the garage

Use of garage:

☒ Public allowed on all levels.

☐ Public on ground level only

☐ Only attendants allowed - all levels

Access to tiers above grade:

☒ Access is by ramp

☐ Tiers are a continuous spiral

☐ Access is by mechanical device only

Additional characteristics:

☒ All floor areas are within 200 feet of exterior openings

☒ Has Elevator

☐ Has offices, waiting or toilets

☐ Has glass doors and/or windows

☐ Has pedestrian walkway

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1. **ENTER** INFORMATION ABOUT THE PROJECT.
2. **SELECT** USE OF GARAGE.
3. **SELECT** ACCESS TO UPPER LEVELS.
4. **ENTER** NUMBER OF TIERS.
5. **ENTER** FLOOR AREA PER TIER (NOTE: ALL TIERS ARE THE SAME SIZE)
6. **ENTER** THE HEIGHT OF GARAGE.

7. **SELECT** ADDITIONAL FEATURES.
8. **CLICK** THE **CONTINUE** BUTTON.

### PROPERTY AND EXTERIOR WALL

Open garage property desc

Site and exterior wall description

☒ Openings are 30 inches or more in height. All dimension are in Feet\_Inches All areas are in Square feet

North side

Lot line -- Section 702.1 To Property Line Length of exterior wall Length of openings Wall area per tier Opening area per tier

Street, an alley or public way -- Section 702.1 20 400 390 2800 1400

Imaginary line between two buildings -- Section 702.1

East side

Lot line -- Section 702.1 To Public Way To far side Length of exterior wall Length of openings Wall area per tier Opening area per tier

Street, an alley or public way -- Section 702.1 10 80 400 390 2800 1400

Imaginary line between two buildings -- Section 702.1

South side

Lot line -- Section 702.1 To Property Line Length of exterior wall Length of openings Wall area per tier Opening area per tier

Street, an alley or public way -- Section 702.1 40 400 390 2800 1400

Imaginary line between two buildings -- Section 702.1

West side

Lot line -- Section 702.1 To Public Way To far side Length of exterior wall Length of openings Wall area per tier Opening area per tier

Street, an alley or public way -- Section 702.1 10 30 400 390 2800 1400

Imaginary line between two buildings -- Section 702.1

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#### FOR EACH SIDE:

1. **SELECT** LOT LINE, STREET, ANOTHER BUILDING, ETC.
2. **ENTER** REQUIRED PROPERTY DISTANCES.
3. **ENTER** THE LENGTH OF WALL ON THIS SIDE.
4. **ENTER** TOTAL LENGTH OF OPENINGS ON THIS SIDE.
5. **ENTER** TOTAL WALL AREA PER TIER INCLUDING OPENINGS PER TIER.
6. **ENTER** TOTAL AREA OF OPENINGS PER TIER.
7. IF OPENINGS ARE 30 INCHES OR MORE IN HEIGHT, THEN **CHECK BOX**

### BUILDING CONSTRUCTION

Open garage construction type

Options

Building construction and sprinkler information

☒ Type I A ☐ Has sprinkler system

☒ Type I B ☐ Has Sprinkler system

☒ Type II A ☐ Has sprinkler system

☒ Type II B ☐ Has sprinkler system

☒ Type IV (H) ☐ Has sprinkler system

Select construction type(s), sprinkler system, etc. by clicking on check boxes or by using buttons on the left. Allowed types of construction will be shown on the right.

Allowed types of construction

IA

IB

IIA

IIB

Select the desired type of construction allowed and click continue.

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1. YOU MAY EITHER **CLICK** A BUTTON TO CHECK MULTIPLE CONSTRUCTION TYPES OR **CLICK CHECK BOXES** BESIDE THE TYPE OF CONSTRUCTION THAT YOU ARE CHECKING.
2. IF THE BUILDING HAS A SPRINKLER SYSTEM, YOU MAY EITHER **CLICK A SPRINKLER** BUTTON OR **SPRINKLER CHECK BOXES**.



## **THIS SCREEN IS INTERACTIVE**

THE LIST BOX WILL CHANGE TO SHOW THE ALLOWED TYPES OF CONSTRUCTION EACH TIME YOU MAKE A CHANGE. THIS ALLOWS YOU TO QUICKLY AND EFFICIENTLY TRY DIFFERENT OPTIONS.

THE ALLOWED TYPES OF CONSTRUCTION WILL SHOW ON THE RIGHT SIDE. SELECT **CONSTRUCTION TYPE** THAT YOU ARE USING. IF YOU WANT TO CHECK ONLY ONE TYPE, SELECT **ONLY ONE TYPE** AND THEN THE **CONTINUE** BUTTON.

THE PROJECT DESCRIPTION IS NOW COMPLETE AND THE CODE STUDY WILL BE CREATED.

THE REPORT IS DISPLAYED ON THE MAIN SCREEN.

THE REPORT IS DIFFERENT BUT THE USE OF THE CODE STUDY REPORT IS THE SAME AS DESCRIBED ABOVE.

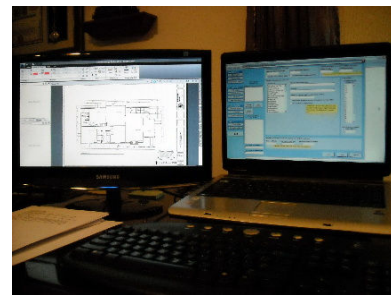
## **CORRECTION REPORT**

SEE DETAILS ABOVE ABOUT THE CORRECTION REPORT. THE QUESTIONS WILL BE DIFFERENT BUT THE PROCEDURE WILL BE THE SAME AS DESCRIBED ABOVE.

## **ALL DIGITAL (PAPERLESS) CODE STUDIES**

### **WHAT IS NEEDED?**

1. COMPUTER WITH 2 MONITORS CONNECTED (1 TO DISPLAY PLAN ANALYST AND 1 TO DISPLAY AUTODESK )
2. PLAN ANALYST SOFTWARE
3. AUTODESK DESIGN REVIEW SOFTWARE (CURRENTLY, FREE OF CHARGE FROM AUTODESK)



USE THE FEATURES OF AUTODESK DESIGN REVIEW TO GET INFORMATION (DIMENSIONS, SQUARE FEET, ETC). ENTER THE INFORMATION INTO PLAN ANALYST. AS YOU CREATE THE CORRECTION REPORT, COPY AND PASTE REQUIRED CORRECTIONS FROM PLAN ANALYST TO THE CALLOUT BOXES IN AUTODESK DESIGN REVIEW. USING THIS SYSTEM, YOU HAVE REVIEWED THE PLANS WITHOUT HANDLING A PAPER COPY OF THE PLANS.

THIS SYSTEM SPEEDS UP THE PLAN CHECK PROCESS, ADDS CONVENIENCE AND A POPULAR **GREEN FACTOR** FEATURE.

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