SAM LUCIDO: You guys, some of you I already know, and some of you have seen me before, and you've seen my giant head on the banner out there. That's the question I get asked the most. And the second question is, no, I didn't pay anybody to do that. I was about as surprised as you when I saw it. So anyway, Sheet Set Manager. I've done this for the last couple of years, and I've changed a few things over time, just because of--

Greg, how you doing, buddy? Just because of how things change with the software and how things have changed with my company and the way we do things, like Xrefs or templates. I went to a company, and they said templates only, templates only. And then slowly, we started hiring design-focused people, and they Xref a lot of things. So that's what came into play.

So I've got about 20-plus years using AutoCAD. My main focus is Civil 3D, so you'll see a lot of this. I mean, I remember a lot of people would say, how come you're not doing architectural stuff and Sheet Sets and so on and so forth? But it's the foundations here. You can change it for architectural, but I focus from a Civil background. So some of the drawings you're going to see are Civil related. Don't mind me, I'm getting my pointer.

OK, so my class summary-- and I think you guys know about me. You can read about me. You can find me on screencast. It's a tough group, putting pressure on me. Where? I can't do two things. That better? OK. All right, the Sheet Set Manager-- I'm not going to read my PowerPoint-- it's your ultimate document management tool. And that's what I always believed, because that's exactly what it does.

And I always say, if you use it-- my users, the first thing I do is just get them to put drawings in their sheets inside the Sheet Set Manager. That's fine. That's perfectly fine, if you even just use it for that way. You're still going to be able to navigate through things. And the three things I always say is most importantly, bring back value and knowledge to help you excel, because that's what I believe my job is. I just want to give you something you didn't know or something to spark your interest in something else, so when you go back to office, you can figure it out.

So what we're going to do today, we're going to understand, identify, and utilize advanced functions of the Sheet Set Manager. Yes, we're going to go through the basics, and then we're going to go through how to build a sheet. And then we're going to have some examples. All of the examples will be included in the data set that will be uploaded. So everything I do-- if you

lose me or I go too fast, it's there. It's there. It's all documented.

You're going to populate data through the entire project, create a Sheet Set Template to use as a company standard, and publish the entire drawing package to PDF, DWF, direct print. The three things I always say-- and I did this in a screencast-- is the ability to collect, organize your data, number two to change like-- why we don't have a total number of sheets as a default value in the Sheet Set Manager is beyond me. Because it's a Sheet Set Manager, right? It controls sheets. It should have current sheet set total. And I've talked to them about it, but for some reason it doesn't. So that's one field we'll create.

And then my last is printing. The ability to print an entire set, because having five different people print sets at the same time, we've all done it. If there's a lot of CAD managers in here and there's a lot of people, we've all done it. This way you can control. If you use a page setup override, it doesn't matter who's printing the drawing. The override controls the PDF print. Therefore, if it's an engineer or scientist, they just pick 11 by 17 PDF, and they're good to go.

So the past, the present, and future. I was going to take this out, but I kind of wanted to just go through it very quickly. So I mentioned Heidi. And this is also in the data set too. Heidi Hewett. And you'll see here in the AutoCAD booth downstairs. She wrote the document "10 Steps to Make Sheet Happen." If you haven't read this, read it. Look at the lab assistants. You've got Sean, who I'm sure you know between the lines, Volker, and Lee. They've been around with Autodesk for a very long time. That's a very solid group of people.

And this document remains true. 2005, that's a long time ago. It's a long time ago, and they haven't updated it. But since then, you'll see there's a lot of people that have tried. "The Ins and Outs," "Cleaning up Your Sheets," "Custom Solutions." Now, this person used a third-party software, which I don't want to do that. I mean, there's some great third-party software out there that can handle the Sheet Set Manager. But I look at it from a cost perspective, as to what I'm buying, and for the company, and how many do I need, and so on and so forth, and can I do it within the base product?

And then me is "No Sheet! You Can Do That With the SSM." There is one other person, Adam Dirig last year did-- we both taught a Sheet Set class at the same time. I didn't even know it. And a lot of people said, well, they like his a lot better than mine. He's architectural, so if you look him up-- and I think I included him in there-- he does a really good job with call up blocks and views and stuff like that. So I wanted to point that out. So he comes from a different type

of environment.

So I love this graphic over here on the right. I do a lot of research when I write documents and things like that. I always look on the Autodesk Knowledge Network, because they change. A lot of stuff just got updated in December 2015 in May, and you'll know someone's writing stuff along the way. And they came up with that little graphic there. And the only thing I did was I put a file cabinet in there, because that's what I believe. That's my theory on the Sheet Set. It's the file cabinet. Inside there are your folders, and then each layout is your sheet. So then you ask yourself in the simplest terms, can I have the same sheet twice in a sheet set? No, you have to make a copy, just like a piece of paper. So consider it a piece of paper.

OK, so the first thing I'm going to do is to create a new sheet set. And my PowerPoint isn't necessarily-- it's for me to keep time and to keep track of what we're doing. If you have any questions, let's try to hold it. I'll go slow and I'll go through it, and there's a couple of things I'll point out as I go. So I'm going to create a new sheet set, and I'm going to create it from the actual default from Autodesk. And I'm going to rename subsets. And I'm going place it in a folder. And I'm going to do this, and then I'm going to open up a drawing and go there. So I'll show you how to do that really quick. Any questions about the Sheet Set Manager itself? It's a DST file extension. Where you put that-- I put it in the root with my file. Some people put it in folders called sheets, or layouts, or whatever.

AUDIENCE: Can you set up [INAUDIBLE] coming from a civil background where we use [INAUDIBLE] and can different styles be set up to automate those?

SAM LUCIDO: Yes. If I understand your question, it's can you create different sheet sets for different disciplines? I think so. And so what we're going to do now is create-- so basically to answer your question, in my company I have one called Mechanical Architectural Civil. And basically, a sheet set's your skeleton. It's like what you ought to name your files. And it populates data depending on where your block and your data is.

So what I'm going to do here is I just use the wizard in AutoCAD. I went up on the application menu. And I selected New Sheet Set. And I'm just going to use Civil Imperial. I mean, I could have picked any one. And this is new from Autodesk. They have one that's called New Sheet Set. It's kind of plain, so it doesn't have anything in there. I'm going to use the Civil Imperial one.

And then what I'm going to do here is there's like four things I need to do. I need to actually

name this to AU2016 Project. So the first thing I'm going to do is name my sheet set. So what this is right here, this is the actual DST file name. So whatever I name it, that's going to be the name. That's your project. So AU2016 Project.

And then like I said, I'm a Civil 3D user. And if any of you guys use Civil 3D styles-- everything's based on styles-- please give it a description so the next guy knows. I mean, you get in there-- and I just got into one, there were 10 surfaces, and I had no idea where anything was just because there was no description. So you give it a description for the next person. So my sheet set at Autodesk University. And then right here the ellipsis, this is where your DST file is going to be located. I'm going to dump it into something called My Project. So that's there, and the hierarchy is just the subsets and the folders that come along with it. I'm going to hit Next. And I'm going to hit Finish.

And what I'm going to actually do is save this drawing file into that folder, just as a drawing file, just because I want to show you what it created. So it created a DST file. And then here's all my default folders for my project. That's just me saying-- you guys have your own default folders, right? You have DWF, Outputs, Print, Sheets, Layout, whatever you do. Some people put X. Basically, I bet you have Xrefs, Images, Templates.

I like putting a template file on there, because the main question I get about the sheet sets when we first start doing it, why can't we just put it on the network, Sam? You can put the root of it on the network. But when you make it for your project, there's project data that's specific that if you're going to create new sheets and new sets, you create it with that template. But your base is what we're going to be doing right now.

So it lies right there. And I'm going to put it in the root with my drawing. That drawing one's nothing right now. So basically you see right here I have a sheet set. And what I'm going to do is I'm going to rename the subsets, like I said. So I'm renaming Grading Plans to Title Sheet, Utility Plans to Site Plans, Roadways and Profiles to Details, and then Working Files and Sanitary and Storm Sewer.

So this one you see I just right clicked. I'm going to put Title Sheet. Not changing anything yet. Properties, Site Plans. Have to look back on my PowerPoint see what I said. Details, Working Files, and then I'm going to remove one. So I'm going to do this one as Details. And this is you going through your project and going, OK, I've got a list. I know there's some PNIDs, there's some slide plans. These subsets-- and this one I'm going to name working-- that was mid-

thought-- these subsets are just organizational tools.

So I'm going to call this one Working Files. And this, I'm going to put Do Not Publish, because sometimes I'll put the survey files in there, and then I'm going to delete this. Remove subset. Cool. And there's no Save button on these. They save as you go. So that's it, right? Well not exactly. There's a relationship between the DST and the DWT, it's like they get married, or boyfriend-girlfriend or whatever.

And they have to come together and share data. So that's when you bring in your title block. So you can see right here, I have my default title block. Actually, I'm going to get out of this one. Cancel. So you see I have a title block here. And it's just attributed data. Now, for you Xref folks, you would simply-- my understanding is how I would do it is I'm still going to have the line work in there to begin with to kind of get the positioning of my attributes and my fonts. They don't have to be attributes. They can be text. But they're going to be in the sheet.

And so what we want to do now is start actually putting this into the drawing and kind of making fields out of it. So what we're going to do now is-- back up to my PowerPoint. So we started the new drawing, and we're going to save it as 11/15 2016 G100. We're going to save it right in the same location. Because remember, it's all about a relationship with these two things. So I've got this template. I don't want to save the template file, because then you're saving your specific template file to something as project-specific.

So I'm going to do a File, Save As. I'm going to go to my project. I'm going to go 2016 11/15 and then underscore-- let's do underscores-- 11/15-G100 And this isn't actually the real name of it. And then I can actually delete this file. Let's get out of here. Right click. I love this right-click Open File Location. They didn't have it years ago. I'm going to delete this. I just want to show you where it was located.

So see we're in the same spot. We're kind of living together, hanging out together, we're friends. And now that they're in the same spot, I want to build a relationship between the two files. So how do I do that? Well, I can simply-- this is just a layout in paper space, and I can simply just right click and Import Layout as a Sheet. Browse to that drawing, my project, the first one. OK, available for import, import it. So it's right there.

I'm going to rename and renumber that. So I'm going to give it number one for my sheet number one. And the sheet title, I'm going to use G100. Now, this is all what you do for your company. You might not use C100, G100, A100, 200, that's national CAD standard stuff. You

could do one, two, three, four, or five or site plan. This is your title, and how you populate this stuff. That's why that field sheet that I gave you is important, if you can lay that out to how you--- I would even do that sometimes just for the project and then hand it to somebody and say, this is how it's set up, or put it in a folder project setup. It helps the people that are moving forward.

This over here, I don't want to prefect with the sheet number, because it's going to rename my layout. And over here if I started a new one, that will actually change your drawing name. So be very careful with this. If this isn't grayed out, that means you're creating a new drawing, and it'll actually create it on your hard drive. So I'm going to hit OK. And you'll see we have now the sheet set that's in here. If I double click it, it's just in there. Now, there's nothing done yet with it. But it's in our drawing set.

So now the first thing you want to do is the project manager gave us the project information. Most of the time when I get a project, it says, Sam, here's the project. Here's the location. Here's the name of it. You got to get that information up front from people. So we've got certain project information. So we're going to populate our data for information. So the number would be GEN9539_01.

The project name, we're going to use Autodesk University 2016. The phase. You know, Sheet Set Manager Project. You can use these however you want. And the milestone, I always use as the submittal date. It's the date on the title block. Not the Rev date, the actual date that's submitted. So 11/15. I must have thought I was teaching this yesterday. 2016. I'm not going worry about this stuff yet.

Any of this stuff up in here, we'll talk about this. This is why the advanced part of the sheet sets-- when you get sheet sets, you'll see that this stuff-- I swear, when I get them from companies, 80% of the time these are blank. Or they're defaulted like they are right here. Tier default. Nobody uses that. Well, I can't say nobody. But my favorite one up there is the Model View tab, and I'll show you why.

So we populated our project control data. That's the control data that comes from Autodesk. Now, then I just exited, so it's saving it. Now like I said, I really wish they'd put in there sheet total in there, because it doesn't really make a whole lot of sense not to have that up in there. But it doesn't right now, so we're going to create that. So now we've got some things in there, and now we're going to actually look on the properties of our drawing. And we're going to

actually-- what I'm doing is I'm right clicking the Sheet Set Manager and I'm clicking Properties.

So now the first thing I want to do, see down in here? This is what we want to do with this template. These are the custom properties that we're going to use for our company standard. There's two things we can do. We can add sheet custom properties and sheet set custom properties. So individual sheets drawn by, check by, or revisions even sometimes, or sheet set. When I first did this for the company, we did everything globally.

So the drawn by, check by was done globally. Next thing you know, I had different people working on the process work, had different people doing the electrical. And that didn't work. So we ended up using cheat custom fields. But that's sort of similar to just editing an attribute anyway, right? But you can just keep in mind, it's just a field. You can still edit it in a drawing, if that's the case. You're just back to the way you used to do it. There's different scenarios for different projects. Still hear me?

So I'm going to delete their custom data. I'm going to go in here and edit custom properties, and I'm going to delete everything they have. But you can keep it. I mean, it's up to you. So what we're going to do is we're going to edit, we're going to add some data. Not a whole bunch, because we don't have a lot of time. But to give you an example, I think the one I have for work has probably 50 fields in there.

And they're different. But they all work. But the problem is-- and you'll see when I start editing custom properties-- there's a reason why I hit Edit Custom Property and I'm going to hit Add. So what I'm going to do here is I had the option of the sheet or the sheet set. So I'm going to do the sheet. So I'm going to do 01 drawn by 02 checked by. Why the 01, 02? It doesn't sort it and you can't move it. And if I did drawn by and check by, it's going to be backwards on my thing. So there's some upfront thought that has to go into this. You have to stay organized as you go through it.

And I use numbering. Some people use letters. I use the numbering system. It seems to work pretty good for me. So I'm going to go 01, drawn by. And then the value. OK, let's talk about this really quick, because a couple of people in here actually had comments on here. So I've been using the code percent percent U, which basically is a blank field that underlines nothing.

There's another way to do it that a lot of people like better, which is if you have the number pad on your keyboard, Alt-0160. You've got to do Alt-0160. We'll do it both ways. That one seems to be more popular than the other one. They both work. I've tried them both, but there

have been certain cases where one doesn't work and the other one doesn't work. They both work, though. Because if you don't do the blank field, the percent percent U, Alt-0160, you're going to get the four dashes, and they'll print.

We used to print sheets for windfarms, and it was so annoying. And then they used to put them on layers and freeze them and things like that. So finally, we figured out, hey, we can use these different codes to get a blank field. So that comes up a lot. So what I'm doing is I'm hitting the Alt key, and I'm doing 0160 and hitting Enter. And you see how it move just a tad? I'm just going to do it for these two, and them I'm going to add another one, 02 check by.

And this is all in the handout. This is what I changed in the handout. I showed both ways. Whatever your preference is. Sometimes when I see the percent , I can see it, and I know it's been done. And when I first did it, I didn't have the number pad a keyboard. And then I thought to myself, I was thinking, I can't do that. Everybody has a number. They don't need it once you put it in, right? I was like, what was I thinking? But it works. So we're going to do Alt-0160. Hit OK. Hit OK.

And you'll see, I've got two fields that showed up in Here. on the sheet custom properties that are drawn by and checked by. So now we have to add sheet set custom properties. Oh see, here it's in the handout, if I showed you. Because I actually showed on page 22-- I showed how it actually gives us space in there. And thanks to the people online who helped me out with that, because it's very interesting. I always try to look for the most effective way, but they both work in my world. But they might not both work in yours, so you know you have two options.

So I'm going to hit OK. And basically, nothing happened yet. We're still just saving as we go in the Sheet Set Manager. We haven't done any linking yet. We've done are drawn by and check by. So here's where we come out to that piece where it says-- this one. So we're going to enter our data. So we're going to do 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13. And you see how that went?

So most of you have the sheet. If you don't have the sheet, it's in your actual handout. So we're going to do one, which is the current Sheet Set Project name, and two is the current-- well actually, this is a little backwards from the one you have-- and the current Sheet Set title. So basically what we're going to do is start populating this stuff. So I have my attributes there. So you're going to see here, this is my name.

So I'm going to double click this. I'm going to bring up the Enhanced Attribute Editor. There's other ways to get to this. I mean, however you get to it's fine. And so I've got Title Sheet and Drawing Index. So this is my current sheet name, right? So I'm going to hit the ellipsis to bring that up. You see it's a multiline text. Doesn't have to be. The restriction with the multiline text or the problem with it is sometimes in sheet sets it'll stretch. You can't lock it. You think you can, and you think you did it, and then you print, and your title's like that. So in some cases, just use dynamic text, one, two, three lines like I used to do. There's nothing wrong with that. But I'll just keep it for multiline for now.

So Insert Field, right click, Current Sheet Description. And you'll see it has the four lines. So the reason for the four lines is I haven't given it a name yet. So it's a field, I just haven't done anything yet. If I actually gave this drawing a name, like if I went in here and said Properties, Current Sheet Description. Well, this is my title sheet. Hit OK. Now if I do a regen, you see how it changes? So that's my title sheet.

So we've got another one here. We've got this one here. Autodesk University 2016. So this is current sheet set, project phase. Well, I've got current sheet's our project name and phase. So I'm going to go back to this. So I'm just going to highlight my text here, insert field. Current Sheet Set project name is Autodesk University. And then phase. And you know, these are just examples. And you see I have-- the same multiline text, but fields in both positions. Insert Field, Current Sheet Set Project Phase, Sheet Set Manager project. .

OK, well that looks good. We've got some of it done. So you see, now we know that they're connected, because everything is in there. So now what we want to do is start actually adding the other sheets to it. We want to add the sheet total, which is the first one. Now we're going to go from just the sheet custom properties to the ones that are already in there to the ones that we created.

So we're going to draw by and check by. So we're going to double click it. I'm going to hit Drawn By. And you see, this is just a piece of text. I'm going to delete it. I'm going to click Insert Field, current sheet custom. And when you pull it down, you'll see you have your two options available, drawn by. And you'll see how it added like a blank field in there kind of, and then check by. Nothing's going to show up, because we haven't gave anybody any rights to that sheet yet. And then right click, you can delete it or just override it. Insert Field, Current Sheet Set, Custom, Check By.

So that looks pretty good. So now that's move down the path. And we're going to go 00 Sheet Total, 01 Sheet Title, 02 Drawing Scale. So I'm just kind of going in sequence as to how this title block flows. So we've got sheet number is the next one right here. You'll see it's number one, so I'm going to right click. I'm going to Insert Field. Current sheet number. It's just a number right here. Current sheet number. And we know that's number one. And you can see that one actually populated, because we had it in one there. And I'll go right to the next one. I'm going to Insert Field.

Now remember, this is a Current Sheet Set Custom. I always get tongue twisted when I-- I mean, it gets crazy. So it's Sheet Set Custom Data. And you'll see we've got to add our data in there yet. So we're going to add. So we added that in there. We're going to hit OK. So now let's go and add our populated data up in here, because we only have the two. So we're going to add custom properties again, and we're going to add. And this time we're going to do sheet set. So we want 00 Sheet Total. And then this time, I'll do the percent percent you.

And Sheet Set, make sure you check that. Add 01 Sheet Title. And the reason I did one was for the title sheet at the end. And then we can call this-- we can actually give this a name, like No Sheet. My class was called No Sheet last year. I did this at AU. And that's where the sheet's at. And it doesn't-- it's not even being used, but it's there if I need it.

Like, the one I just did-- changes I've made recently are-- we have, on our projects, we'll have a project name. Then we added a custom fields for the address line one, the address line two, and then the city and the state. And then we put them in there. Whether we put it on there or not is a whole 'nother story. But they're there. So I'm going to go again.

So I have 01 Sheet Title, 02 Drawing Scale. And this was just in there just to be in there. We're going to default the value to, as shown, and I guess, or shown. And then we'll get to our revisions. And again this one's under debate for whether you do it per sheet or per the sheet set.

It's great if your revisions-- if you're submittals all go out at the same time every sheet, but that doesn't happen in a perfect world. I mean, we send out different sets at different times. So you might want to consider putting those in the actual sheet custom properties. How I handle that is, I have one called Global, and one Regular. So it'll control-- and then depending on which template they choose-- I know it sounds silly, but depending on which template they choose, it will control either one.

You can't control this. That's one of those things you really can't control on the submittals. You can't, because sometimes one sheet'll go out. So you just can't do it.

So I'm at the revision part of this whole deal. So, I'm going to do 03. And I did a, b, and c, and I did revision, Rev1, number. And I'll do the %%U sheet set. I'm going to add another one, 03b.

And the only reason being is because they're related to each other, is 03. So I don't go, 3, 4, 5. I want threes. Those three are together. There's no way you're going to ever revision one or not have a description and a date. At least I don't think so, but maybe I'm wrong.

So we have a revision description, so Rev-- Rev1 Description. And then %%U, and that's for the sheet set. Case doesn't matter, but I'm just being me. And then we're going to add 03C, Revision One, Date. And then %%U. Hit OK. And you see, we have this nice sheet set that we created for our company that has this default data populated that links to our title block.

This stuff up in here we talked about, the advanced stuff. You can't do that until you get your template-- your project set up. Because you don't know where the model view's going to be. You can't set that up anywhere. You don't want it on the C drive.

The model view's your folder, actually, and you can have more than one. Call up blocks, you can assign them per the sheet set, per the folder. Yes, you can put them on a network and kind of go that route, but I don't recommend doing that, actually. I like doing it in there.

So I'm going to hit OK. We're back to our actual-- these two are still building a relationship together and sharing things. So we're back to our total number of sheets where I was before. So I go down to Sheet Total, and now when I right click and I hit Insert Field, I go to Current Sheet Set Custom, and I have Sheet Total-- which I spelled wrong, which was great, but-- and you'll see there comes up %%U. And then we're going to go through everything. The revisions, right click, Insert Field, Revision A, Revision Description, Insert Field, Revision One Description. And then the last one, Insert Field, Revision Three, Date.

And then we had a scale in there somewhere. So right there is the scale, too. That one I just wanted to show you. So Drawing Scale, and you see how it's shown? I just wanted to show you how actually populate it. See how it shows up?

Oh, my miles-- I forgot one. I actually have two more. So I have my current sheet title, which is C100. Insert Field. So that's Sheet 1, Current Sheet Title, I want to do that, and then my

milestone. Insert Field. OK.

Looks pretty good. Everything's in there. You got it, so it's done, right? Not necessarily. But that's the basics of-- that's a very, very basic connection between two pieces of data. So what I want to do now, I've got this-- I usually test it. You know, I'll enter the fields, make sure they all work. If you get the hashtag or whatever, you know your attributes broken or your link is broken. If it doesn't fill out and it's blank, just check all that stuff before you move any forward.

So now what you want to do is, you've got these two things. So we've got this AU 2016 project, right? So I'm going to remove this. I'm going to actually save my drawing. And I'm going to remove it from my sheet set. And then I'm going to actually save this drawing as a template.

So what I'm going to end up doing is saving this as AU2016template, and I'm going to make it a DWT file. I'm not going to save it here. I'll show what happens. You can save it right here. So I'll make it AU2016template, just like that, what it's going to be called.

And then you can bring it up and call it whatever it is. My civil default folder sheet set. My generic folder sheet set. My figures. 11 by 17 sheet set. It's the basic template. Don't try to get too complicated in the beginning, because you have to make it project specific.

So where are these located? So when you right click and you hit Options, under Files, under Template Settings, you're going to place the DWTs of these files in these two folders. Now, you don't have to do that. Your templates may be put-- mine aren't put in that folder. They're put on a CAD 2016-- you know, handling all just templates. So you put them where your templates go. And then when you do a new drawing, or a new sheet set, it'll see it.

So let me show you where that's at. Let me go back to my PowerPoint and see how we're doing here. So, we edited our attribute data, and you have the handout for this. It's kind of just a guide. And like I said, I would just take the data I have, take my title block, and for you XREF people-- still do it that way, and then just get rid of all the lines. And call it your whatever you do, 22 or 34 border, 24 by 36. Mine's called-- what is it called? 22 by 34 xref, and the other one's called 22 by 34 data. Or something like-- 22 by 34 title block, and then 22 by 34 title block data. So the data is my sheet.

And consider sheets are just pieces of paper, like I said. A layout is a sheet. So the XREF thing-- it's a big deal. We got in a lot of fights at work over this thing. I'm telling you, it's a big deal.

But people don't believe Sheet Set Manager works because they say, oh, I can XREF it, Sam. Why do I need to do that? And in some cases, it's true. In some cases you can. So you can use a combination of the two. But you sure as heck can't remove sheets and add sheets like you can, without Sheet Set Manager.

So we did that. We removed the sheet, and we saved it to AU2016template, and we saved it in this location. Number one, and number two. So now you're feeling pretty awesome right now, because you just did it. You've got your templates. I have a very talented daughter does graphics stuff for me. She's great.

So you have two files, you've saved them. That's the basic first part of this class. I know I took my time. I wanted to go a little bit slow, but I wanted-- you've got to build the foundation before we jump right into some of the other stuff.

OK, so now what we're going to do-- now we're going to create a project with our template. And we're going to see how it works. So, we are going to-- there we go. We're going to create a new project. And we're going to start a new sheet set with the wizard.

And you notice how it shows up, that little DST file that we saved shows up there. And we're going to go through and-- I think I'm going to give up on this. We're going to go through and actually start making our project for our specific project in the dst location, and then sample it. So we'll do that right now.

So I'm actually going to get out of AutoCAD. I'm going to get out AutoCAD, get out of my sheet sets, and I'm going to reopen AutoCAD. I'm going to go back to that project folder real quick. I'm going to delete this stuff. You've got some XREFs in there.

This is my typical project folder. There's nothing in my template. So this is how-- OK, we start a project, I make a project number. So this is what we do up front. I got some blocks I'm going to use. I'm not going to use that.

There's the title of it. Some details, I have a detail sheet that I've XREF'd in there. Well, I haven't XREF'd. I've created views that we're going to place views on the drawing. Then we have a DWF, a D-W-F fax from client is usually what we have.

Images, PDFs, scripts, templates, and XREF. Pretty basic stuff. So that's where we're going to put our sheet set. So what we're going to do is go back to AutoCAD, launch it up again. And

you'll notice in the handout, this part of the handout is more or less like a tutorial. So it's going to have highlighted things, like steps 1, 2, 3, 4, 5, 6, 7, so you can create your own. So you can follow it along, even if you don't have the same version as me.

So, I'm going to actually do New Sheet Set from my Access Sheet Set Manager. If it's not there, hit Control-4, or you can actually hit it up here on the application menu, up here on the top. Example Sheet Set, AU2016project is what we created. And you're going to see my Sheet Set Properties. Isn't that cool? Everything's there that you did. Whatever you did is already there. We built that.

So I'm going to cancel out of there. And I want to call this AU2016projectproject. And then, this one, I just-- my sheet set template at Autodesk University. I'm going to right click that, and put it into the project folder. I'm going to keep this checked, because I want the hierarchy that we created.

If I don't check that, all those subsets go bye-bye. They go away, which-- some people don't like subsets, because I always say they're considered like fences. Like, when you right click and do a property on a sheet, you can go Next, Next, Next. If you have a subset there, you're not going Next. You're stopping. And I'll show you that.

Hit Next, and then hit OK. So you see, here's my data. Here's some of the stuff we did. You see how it's got blocks and call blocks attached to it too, but we'll go through that. So there's our project, right? Now, we have that relationship between the two files, and we sort of-- they went to live in separate places for a while. Now we're going to bring them back together, because they share they share things.

So now I'm going to do a new drawing. Just like I did a new sheet set, a drawing. And you're going to see that I have something called AU2016template, which is what we just created. Now, I don't want to make edits to this. I want to save this to my project folder, because that's what I want it to be. I want it to be in my project folder.

This is our first sheet. So what I want to do this-- well, let me take the viewport out of there. And then I'm going to do a File, Save As my project, and then we're kind of doing the same thing we did before. 2, 0, 1, 6, 11, 15, G-100. OK, so there's our project. I'm going to right-click my title sheet, Import Layout As Sheet. I'm going to browse for that drawing.

Now I'm going to insert it to my sheet set. I'm going to right-click. I'm going to rename and

renumber my Sheet 1 G-100. Now, I'm going to do a regen, and I want you to see everything changed. So now you see these-- see how we've got some blank. They're not going to print.

There's that Alt-1060. And the %%U up here just won't show up. So now this is actually part of our project now. This is kind of an important step, because now we have this dr-- now they're in there. They're in there. If I right-click-- if I right-click this, and I open my file location, this is exactly what I want to see.

I've got my DSD file and my DWG file, they're back together. They have a relationship now. Now, I want to create the template file for this specific project. Page Set Ups, Sheet Titles, whatever it might be. Something that changed. For here, it's just the Autodesk University thing, but this is where you would do your-- this is where you would do your project name, your city and state, the total number of sheets, all that kind of stuff, you would populate in here.

So the first thing I want to do-- and since I want to make this my project template, I want to actually start looking at Page Setup Overrides. So the first thing I'm going to do is type page, and then if you take page, you do Page Setup, Page Setup, whatever. I have a page setup in there. I'm going to hit modify, and just take a look at it. So it's a 22 by 34 PDF on monochrome.

Let's just say I want another one. I'm going to do new. I'm going to do the same-- it's going to pull the pop-- it's going to populate the same data from that one, 11 by 17 PDF. And I'm going to change just the 17 by 11. And then I'm do 1:2, because it's half the size. Everything else is OK. I'll just set 22 by 34 to current, hit Close, and there, that's our drawing for our actual project.

It's interesting in here, I didn't actually show where to put it-- how to save it. So the first thing we're going to do to this one is, we're going to-- now that we've got everything in there we want, we want to use this for Page Setup Overrides and other things. So we're going to save, do a Save As, put it in our template folder. I'm just going to save it as a drawing file first. Actually, I'll do a Save in this one first. And I'll do a File, Save As Template. I'm going to save it like that.

And then I'm going to do a File, Save As, and I'm going to save it as a DWT. It's going to default back there, but I want it in my project template, so I want it there. So, take that name. I'll just do it right here, DWT. And it's going to come up and this is going to say My New Project at AU.

And right here, this comes up with these saved layers as unreconciled [? erects. ?] The benefits of a DWT is that layer warning thing, if you have it set. If you save them all as unreconciled in the DWT, that won't show up. So there I've saved it. I'm going to actually just get out of there, and go back into my drawing. So now I have a template that I'm going to link.

So we created our drawing. We saved it in the project folder. And now I'm going to imp-- we imported it, and we created two page setups. Now, this is where-- and you can do this later, too. Say the project came up, and the guy says, oh, I want to print it 30 by-- 34 by 44. You can-- but your title box is kind of set. If you want to fit it to that, you can create another page setup through Page Setup Overrides, and you don't even have to be in that drawing anymore.

So we did all that data. We made our template. And now we're going to actually open up G-100 and save it three different times. We're going to save it to C-200, and C-100. So we've got G-100 open-- and I don't even care what the layout tabs mean. I'm going to save this as C-100. And then I'm going to do a File, Save As, C-200.

I'm going to open-- I'm going to close C-200, open up G-100 again, and close that drawing there. I'm going to open up C-100 and create to layout tabs. Say this is my site plan and I have three layouts. So I'm going to right-click, Move and Copy , Move to the End, Create a Copy. Right-click, Move or Copy, Create a Copy, Move to the End.

All right, looks pretty good. But these are all-- don't worry about naming that. Save it, your drawing. And then we have C-200 as well. But we only have one layout in C-200.

So our next step, now, if we go over to the PowerPoint, is, we want to import these into our sheet sets. So we made three layouts. And now we're going to import these, and we're going to come up with something like this, as shown. It won't look exactly like this, but it'll come up like that. So we want three site plans, and then a detail sheet.

So now we know we have five sheets. So I'm going to do alt-tab. We'll go back. And when I right-click here, if I right-click anywhere in here, it will insert that drawing underneath that subset. So import Layout as Sheet-- or since I'm in this, I can actually right-click here and import it too.

But I'm actually just going to save my drawing, right-click import Layout as Sheet, browse for drawings. Yes, I can select both of these at the same time. You can select 50 of them if you

want. If you really want to do that. I'm just going to select the one.

And you're going to see it's available for import, and I'm going to hit Import Checked. And you see how they all came in there? Like I said, I don't care about the names right now. We don't. It doesn't matter to us. Right-click details, Import Layout as Sheet, browse for drawings, C-200, Import Checked.

So we've got our drawings in there. So now what we got to do is we want to rename them. We want to rename it is C100, C101, C102, and C103. So I'm going to right click. How you do this, you right click, rename and remember, and this comes with a subset thing where I talked about before about you can't go any further.

So I know this is sheet 2. This is actually sheet C100. And then this is key right here.

Remember I told you don't worry about the layouts? Let the sheet set manager do that for you. Rename the sheet to this sheet title. So whatever this is, it's going to rename it. That's important, because even when we PDF, it's going to PDF to that name.

So whatever you name that as, that's what your PDF is going to be. You want to prefix it with the sheet number? That's your call. Some people do it. Some people don't. And then this would be grayed out.

So I'm going to hit Next. You see I have a next option? Sheet 3.

Actually, I don't think those are in the right order. But we're going to do that anyway. I'll check that.

So this is C101, hit Next. And this is sheet 4, C102. Hit OK. You notice I can't go Next.

Remember I told you that? Because look at I have details in here, and I'm going to hit OK. So I'm going to right click, rename and renumber the details to sheet 5, my details for C200. So now I can double click this. I didn't rename.

Let me rename it again. Wrong number. I noticed that in the labs, C200. Do a regenerate. You'll see that change to C200 down here.

I'll go back in to C100. The beauty of how quick this is-- and you'll notice when I do this, all this stuff is changing down here, the sheet numbers. Now I know I have five sheets. So I can say, OK Sam, I got five sheets. I'll put five in there.

That's cool. And then I'm going to do a resave all sheets. I love that option in sheet set manager. When it does it, boom. Your sheets change to 5.

You still have your dots up in there because we haven't given any names yet to anything. But this is our project. So the next thing we have to do is we have to give our sheet some names. So we're going to do-- the first one is going to be a legend, the notes, second one existing conditions, third one demolition plan, fourth one restoration. You know how I did sheet title, sheet number, sheet description?

However you see fit doing that. So rename and renumber. I'm sorry, I'm going into Properties. And you can't go next on this one. So this is title she and drawing index.

If I wanted to put drawn by myself and somebody else, I can at this point in time, since it's a sheet, or I can just leave it as is. I'm going to put existing conditions. And this one's going to be demolition plan. And this one restoration plan. Then this one details.

Resave all sheets, right click. You'll see my title will change up on there. And every sheet the title changed to what I put in the sheet set manager.

AUDIENCE: Sam.

SAM LUCIDO: Yeah?

AUDIENCE: What is that where you save all of the forms? Can you just refresh?

SAM LUCIDO: It just resaves everything. That's one of the things that's great about the sheets set manager. I can archive the entire sheet through that properties. I can resave all the sheets. If you have 100 sheets, it will go through each individual sheet and save it.

So you have to be careful with it. Or you can save them individually. I like the option of, if I'm working for 2 and 1/2 hours and I haven't locked up, I'll do I resave all sheets.

AUDIENCE: What if you don't have [INAUDIBLE]?

SAM LUCIDO: It doesn't matter. It'll save it.

AUDIENCE: [INAUDIBLE] get multiple users [INAUDIBLE].

SAM LUCIDO: It won't save it. It's locked. It's locked by the user. We work in a VDI environment now where

that will happen, and it'll just like you said, it'll skip it because it's locked.

So now we've got this in here, and that project manager said Sam, let's connect our template first. I'm getting ahead of myself. So now remember we did the page setup overrides and the sheet set template? So we created that template folder. And there is a reason for it for our project.

Say the project manager is that guy who wants our-- that gal wants a 11 by 17 all the time, no matter what, or a giant sheet of paper. So we created these page setups, and then we also created this template file. So now we have to put them somewhere where the sheet set manager knows where they are. So you see these two things here. Page setup overrides and the sheets are template creation.

This is where it gets more what I consider advanced, because you're taking it to the next level. We just did the basics, and now we're taking it to the next level. So we have this project.

Here, we'll just do this, just to show you. Open file location. You can see these are my drawings that have been saved at 6:51 PM because that's my time back on the East Coast. So they're saved in there.

So now we're going to link our templates. So we go to Properties. Right here, Page Set Up Override File. I'm going to hit that little window at the end. I'm going to go to my project.

I'm going to go to Template. I'm going to select my template. And it accepted it. If it comes up and says it can't do it, go back into that, check your page set ups to make sure they work. It sometimes will.

Sometimes you have to go back in there and check it. And then the sheet set template creation, same thing. I'm going to browse to that folder, My Project, Template. And I want it to create a template from that sheet. And the layout is going to be named G100.

I think what some people do is I was putting x dash 000, or 000, or new sheet or whatever. But it could be 0100, or whatever your code might be that would let people know, hey look, I'm creating a new sheet. I'm going to hit OK.

Apply changes to the nested subsets. These are the subsets. Yes, I want to apply to everything. And then again, I'm going to resave it because that's what I like to do.

And now the project manager came up to me and said Sam, I need another detail sheet. Well, I could easily go into here, C200, right click and create a new sheet. Do copy paste and import it. But actually I could just right click the subset, and hit New Sheet. And this is sheet number 6.

The sheet title, let's say it's C201. And then look down here. This is my file name. So be careful with that. This is going to be created on your hard drive.

So I'm going to call it 201611. I can't remember the seq-- 1115, C201. I'm actually creating a new sheet in that folder. I'm going to hit OK. You'll see it created it in there.

I'm going to double click it. I'm going to go back to my drawing. And there it is, my second detail sheet with all of the data that we populated from before. So that's pretty cool if you can do that. The only thing we haven't done is give it a title.

So we have this one is details. And we could just do one. And then we could do right click, Properties, Details too.

AUDIENCE: Any reason why you would do that rather than tabs?

SAM LUCIDO: No, no. No reason.

AUDIENCE: Can you create another sheet without creating another CAD file?

SAM LUCIDO: Can you create another sheet without necessarily creating another CAD file? Yes. You just create another layer. And then you'd have to save it. And then when you go to import, it will show you the ones that are available for import.

So like I said, I could have went into 200 and made 10 tabs and done it. I don't recommend making 10 tabs, but there's a lot of people that-- not to be off topic-- that like the one tab thing. And I think Autodesk doesn't recommend doing a bunch. But some of the work I do, I need three or four tabs because it's a continuous alignment.

And to separate it, it doesn't make sense to me. So sometimes we have quite a few. But the sheet set manager handles them pretty well. So now we're basically close to being done. What do we need?

We need an index table. We need a title. So we need to finish our title sheet, and then we need to print. So basically you can do all of this stuff. This is what I love about sheet set managers.

I could do all of this stuff before I really even start my project. I just need to know where the location is. I need to know what sheet set I'm getting. That's another case. Getting that info sometimes is hard.

But if you get the file location, the folders, the name of the drawing size, and that stuff like that, you can kind of get things set up. Then when you get the project, you can roll with it because a lot of what we do is last minute. So if you're ahead of the game, stay ahead of the project manager, the engineer, the whatever.

I've got to quit bashing on engineers. How many engineers in here? How many engineers? Oh, we got a few.

We got a few. Don't worry what? I've got a question.

AUDIENCE: Speaking of last minute--

SAM LUCIDO: Last minute.

AUDIENCE: Could we add new sheets and renumber it to change this?

SAM LUCIDO: Yeah.

AUDIENCE: Is there an out-of-box feature that you can renumber everything quickly [INAUDIBLE]?

SAM LUCIDO: You can't renumber it quickly. You have to go through and renumber, rename, and renumber. That's where I said some people get upset by putting subsets, and they don't like it. Because if I remove this subset, if I remove that, I can go through. And if I added a sheet, I could go through and do 1, 2, 3, 4, rename, rename, rename.

Because that happens a lot. And you just rename it. But there's no quicker way than that.

AUDIENCE: There's no way to automate the [INAUDIBLE]?

SAM LUCIDO: Not that I'm aware of. There are third party software programs that do do that. But you might be able to do it through LISP or something like that. But through the sheet set manager, you have to follow the sequence in the sheet set. You have to follow through that.

So what do we need to do now? We need a title and we need to sheet index. Sheet index is a big one. And the reason I created this class-- this was years ago, it was an engineer in New

York. And he had an Excel spreadsheet, and he was typing in all the data for a sheet set.

But remember I told you I just I wanted people just to get it to use it. He had everything in there, everything. He just didn't know you could add a sheet index table to it. He had no idea. Then he said no bleep, you can do that with the sheet set manager.

So we're going to go back to G100. I'm just going to insert a block. I'm going to browse. And I have my project, I have blocks, and I have a title. And I'm going explode it.

And I'm just going to insert it there. Whoops. I'll move it here. So there's my title of my sheet. Usually, we have an image or something for a reference.

And then I actually want it to actually create an index table now. So I have my project. So I remember we had a field in there for the name of the project? So I'm going to right click, I'm going to insert field. However you have these on your title sheets, these can be the same as what you have in your title block or they can be different, depending on your project, your company, the client.

So I'm going to insert field since we had one in there, custom field. Current sheet set custom. And it was our sheet title. So that's Autodesk University 2016. I'm going to right click, I'm going to resave.

Just because I like to do that all the time. And now I'm going to go into the part where we want to insert our sheet index table. And so what I like to do is I like to create the table first. So if I hit Table, I have a standard table. I don't have an actual table style created.

So it's just going to be a default table. But you'll see when I go to the completed project after this, we start doing views-- We start doing views then I'll show you how to do that. Timer went off. So I'm going to right click, I'm going to insert table.

And you'll see I have sheet number, sheet title. And I'm going to add one. I want to do sheet description. This is pretty much dependent on some of your custom fields in your fields. You can't really do it all.

So let's do sheet number. I'm going to change this sheet title. And I have a screencast on how to force these-- end of description-- to force these. And I'm going to call this drawing index.

Over here is what you want to include. I certainly don't want to include the working files. If this

isn't checked, it's not going to work. And hit OK. So I did something wrong already.

Does anybody know what I did wrong? I did something wrong. I'll give a prize.

Do I have a prize? I do have a prize. Does anybody know why this won't work?

AUDIENCE: [INAUDIBLE].

SAM LUCIDO: No, no. Where is this going to go?

AUDIENCE: [INAUDIBLE].

SAM LUCIDO: No, where am I putting it?

AUDIENCE: [INAUDIBLE].

SAM LUCIDO: You have to be on the sheet. So I'm actually not on it. So I'm going to cancel it and I'm going to do here. I want to be on my sheet.

So I want to right click, Insert Sheet List Table. And now I'm just going to add this. I'm not going to go through the whole description. I'm not going to go through changing that.

And then I'm going to check my subsets like here. See how they're not checked? Check them all. Make sure they're checked. And you'll see your sheet comes in there.

Now it's pretty. Or maybe I want to scale it up. Maybe I want to do whatever. That's where the table style comes into play.

Once you change it like this, you're good to go. I usually take my tables, and I usually use the properties palette over here, and I give it a middle center. And then I give it an indent about-- oh, middle left, I'm sorry-- of about 0.35. And you see how I do a horizontal margin of about 0.3. Moves it into there.

So I've got my sheet title, my sheet number. So what happens if I change the name of this? Hit Properties, Details, 22? I'm going to go to my sheet, regenerate. You see it says Details 22?

That didn't change. Even if I get out of AutoCAD and get back in, it won't change. But there is something I'm going to give you that will make it change. So basically what you need to do, you need to touch your sheet set, the contextual ribbon, download from Manager, you see it changed. Now that being said, there is a code that's in the data set that you can put in your

startup suite, which is right here.

I just have something for 82,0016. But I want to show you the list file. There it is. Datalink update UK.

So if you put this code in your startup suite, or if you do the APP load, or put it in your ACAD doc dot list, when you get out of the drawing, it will update it automatically. That way, like I said the engineers, the people that don't really know that-- because I've had people add sheets and we've printed the thing, and the title sheet is an updated. And that's kind of a bummer. But this code will work.

This code will work. And there's another code in there that I gave you that actually when you get the warning that it's already attached to another sheet set, you can't use it- so there's another LISP code in there called RSSM. And you see how this one is? It removes the sheet set data from the drawing.

Sometimes you'll be in a case when you're in it and you can't import it. And you're like, what the heck? It's not attached to anything. Somehow that relationship between it was saved somewhere. So you can upload that code.

If you're not familiar with LISP, it's just a way to automate certain processes. The ACAD doc dot list file loads every time you open a drawing. ACAD dot list every time you launch AutoCAD. So I'd recommend putting it in the dock or your startup suite. Startup suite will do it every time.

AUDIENCE: Did you close that file [INAUDIBLE] do you print from [INAUDIBLE] without reopening it, will it [INAUDIBLE]?

SAM LUCIDO: If I close the file and have that loaded, will it automatically print? So you're saying I--

AUDIENCE: [INAUDIBLE].

SAM LUCIDO: Yes.

AUDIENCE: [INAUDIBLE] and then just print from the sheet set [INAUDIBLE]

SAM LUCIDO: Yes, I believe so. I'm like 90% sure. Yeah. I like that code because the reason I do the sheet sets in what I do is because I'm a CAD manager.

But I'm fortunate enough-- well, fortunate-- that I still get to work on projects. So I have a goal, a direct hour target that I'm half managing a project, and I'm half managing a group. So anything I do, like that little code in there, it's important. It happened to me. And I'm non responsible for what goes out the door.

And then when you send a sheet out that has the wrong-- and someone says, why I thought you said the sheet set manager was the blank Sam? And I'm like, well, it is. And then so that code came across.

It's on a knowledge network. I think it was from Brian Benton showed me that. And if you ever follow Brian, he's really good at the sheet set stuff.

AUDIENCE: [INAUDIBLE].

SAM LUCIDO: Yeah. Yeah. The question was sheet number, sheet title, sheet description. That's your table style. So I'm going to insert sheet list table. What did you just-- You didn't want these.

Oh, the headers. The headers. So yeah, you'll have to go through in the table style in here and modify it.

AUDIENCE: [INAUDIBLE].

SAM LUCIDO: The headers here? Couldn't remove it? Let's talk about that later. I'll look into it. That's a very good question.

AUDIENCE: --get rid of the title, then merge the [INAUDIBLE].

SAM LUCIDO: See, you guys are awesome. You could do this by yourself. So now we need to print it. So there's a couple things we want to do. And then I want to jump into some completed ones because we don't have a whole lot of time. This goes by so fast.

So now we want to print it. So a lot of people don't-- see right click Options, I'm going to print and publish, and there's that Publish in the Background button. And a lot of people turn it off, but you can't continue to do work. Drives me crazy.

But there are some bugs in it sometimes. So a lot of people recommend not publishing in the background. But I haven't encountered too many problems publishing in the background. I like publish in the background because I can still do stuff. Now am I really doing hardcore work when I'm printing it?

Nah, I'm probably getting a cup of coffee or going to the bathroom or something. You know what I mean? Because I can print and go and know what's going to print.

So there's a system variable called Publish Collate that controls-- let's go back to my PowerPoint. So he inserted the table. That's a great question about the rows and stuff. I like that kind of stuff. That's good.

See, that's the kind of stuff where when I do these things, if it comes up in the real world when I'm doing them, it's not from it's tutorial, this is often projects. So I talked about the publishing thing. And I'm talk about this publish collate.

I like it at 0. It prints one sheet at a time. My users like it at one. And it prints the whole thing.

It's going to say Sam, where do you want this PDF file to go? It's going to default to a particular folder, and it's going to put it there. So that being said, let's print it and see what happens. So the first thing we're going to do, see publish-- If this is grayed out, this right here, that means you're not connected.

But the main thing you need to do in AutoCAD's 2016 and '17, these [INAUDIBLE] and PDF options changed. And other programs are different. So you want to browse.

It's asking you where do you want your PDF files to go? So I want them to go in a folder called PDF because otherwise it's going to go on to C, Documents, My Settings, or your Desktop or somewhere. And you're going to go where the heck did it go? You printed a bunch of stuff.

Another thing I like to do-- this is just a CAD manager tip-- I do not like including the layer information on my drawing files. I do not like it. And the reason I don't like it is because people can turn-- If you have a really good operator that's very disciplined in their layer control, he can take one drawing and make it into four just by turning layers on and off and send them out. And you won't even know. Then you're wondering what the heck happened?

I didn't do it. And then you didn't do anything. Someone else did it by using the PDF.

So I turn my layers off. That's just me. But I turn them off. But we do have some clients that request it. So there's that.

But as default-- I think that by default it's on. So now I'm going to right click. I can right click and do this, publish. I can right click a subset, and just publish that subset.

A lot of times I'll do this. I'll right click and I'll publish this. I'll do 11 by 17 PDF, and you'll notice it's just going to go Sam, I'm thinking about it. Now I just clicked the Detail sheets, so it's publishing in the background. And over here you're going to see a little icon saying Sam, publish is in progress.

Someone opened the file location and it's going to go to the PDF file. You'll see it there in a minute. But a lot of times if I'm working on detail, sometimes I'll work on details for standards and cleaning things up. I'll just need to publish the details. I don't want to print the whole thing.

So that's a benefit of the subset. I understand the reasons people are reluctant to use them. But I am a huge fan of being organized with your work because I believe that it helps in the long run. If you stay organized, this stuff all goes quicker.

So it's still printing. Printing page 2 of 2. So if I go into my PDF folder, you see what it printed? And the reason I wanted to show you this, is if you look at this, 5 and 6. In the 5 and 6, it prints exactly the way you name those.

So we had a question about the numbering of it. So if I want to print the whole set, I'm going to right click the project, and it will print these in order. And then what I do-- and you'll see it comes up and says Plot and Publish Complete. I bring up my drawing. And you can see it just prints it right in there just the way I want it.

And then I bind it together, so it gives me the opportunity to look at them. Now if I turn that variable the other way. Publish-- I like Auto Complete because some of these commands are pretty long. If I change that variable to 1, I'm going to right click, Publish, Page Set Up. Say I want it 22 by 34.

See how it says Sam what do you want to do? And you see how it defaulted to the actual name of the project. So this is where you go and say OK, my ditch design 1116, 2001 6 version 1.

And then you print it. And it prints the whole thing. And then you can email it.

We created a template. We kind of did basic stuff. So then we get to the advanced stuff. But some of it's basic, some of it is advanced.

The sheets set is built off the found-- you have to have a foundation. You have to stay

organized. If you're not organized, you're going to end up in a mess. If you have those fields, you're going to end up with fields that don't sort enter name.

I wish it was like the Bat Manager. You know how you can do Batman? You can move him up and down? If they would do that, it would save a lot of people a lot of grief in numbering things and sorting things. But for some reason, it doesn't work that way.

So what am I to do is get out of here, and go back into AutoCAD. And I want to show you two different projects. I want to do a little bit of the view thing here too. And some call out label blocks. So basically in your data set, you're going to get these folders to do it yourself with the default files.

And then you're going to get two completed projects. One of them we just did. And I'll show you. One of them is a regular with a template, and the other one is XREF. So you can kind of hack at it and see how it works.

I'll upload it tonight. I haven't uploaded it. Yet I'll upload it tonight. So I want to go into my completed project. This is what you're going to get when you go home.

And you're going to see OK, I've got a completed project there. This one's not an XREF I've got my sheet list table, my index, and everything is populated through the project. There's my site plan.

And you'll see that it's linked to the field. So let's go to my Details sheets. I'm going to remove these really quick and I want to show you what I did.

Don't worry, you'll get the ones that are actually in there. So what we have in the sheet set manager, in the more advanced functions, the first thing I want to talk about is the Model View Tab. Every user in my group, when they start a sheet set, I tell them to set this to the Project Folder. I don't like to go out to the C drive for anything. Everybody says be a lazy person, whatever.

I just want it to be efficient. So if I set that to that project folder, look what happens. I get everything I need. So then if I go into my Detail sheets, I got everything I need. So I'm going to go into blocks first.

Because we have these call out blocks. See, I have a sheet index table in there for you too that's populated. It's actually is this one here, where it's a little more polished. You see all

everything is capitalized? So I'm going to go into my model views again.

And I can open up anything from here. But I'm not in my sheet set. This is actually independent. So I'll opened up my call out blocks. So this is what I did.

You have call out blocks. These are standard from AutoCAD. I just modified a few things. I made this thing stretch. But it's view number, sheet number.

And this one is an actual block that stretches in one direction. And the only thing this one does, is if I double click it, you see there's a little bit of a field at the end of it. It's a formula. It's the sheet number plus 1. So if you have drawings that have consecutive sheets, and you need a match line, you put these match lines on there.

So how do we do those call out blocks? So you see up in the sheet list table we've gone to Properties. Remember I told you these ones aren't usually populated? So you go in to here. This is the Label view for the blocks.

What do I mean by label block for views? I mean my detail sheet, you'll see if I type view, I created Model views of an barb wired fence, hay bail sedimentation and stabilization. So in my world, we created one of these that had erosion control details. And it had about 20 details in it. We didn't need them all, but we created the view.

And remember I told you about Adam does the architectural one? If you create the view to a specific scale, when you bring it in, it will retain that scale unless you change it. So I have this detail sheet with these views. So what it does-- I want to go back to call out block.

It's associated with this block. View number, view title, viewport scale. So when I link that through here, right through here, you see how I linked it into here? All these model views? These are my call out blocks.

I selected the wrong one. And label view blocks. It's hard to see sometimes. So I want to select this one. So I chose the block as the call out view label.

So I chose that block. So what that did for me was, when I go back to my sheet set, I'm going to go to my sheet views. So I've got these sheet views. And what I mean by sheet views is not necessarily do they need to be like inserted this way. I used to use sheet views just for navigating around.

Like you'll see in this project, I used to create sheet views, like I want to look at the aerial image. Or I want to look at the table of contents. They're just views in space. And so this one has actual other different kinds of views. Site views and pond views.

So we're going to get out of here. And we're going to go into C200. Sheet views. So where is my Details sheet? So I have to go to my Model View tab.

And I'm going to go to my Details sheet. Let me pull this out, you guys, so you can see it. And all is I'm going to do is place on a sheet. So I connected the block to the view. So I'm going to place it on the sheet, and you'll see what it's going to do.

It's going to place it on the sheet, give it a name. And you've got to remember when this does this-- there's my barbed wire fence, placed on a sheet-- it's going to place it-- the border is going to be on the current border. And you'll see what happened here. Barbed wire fence, it's a 1 to 1 scale. So I'm like, well, that doesn't make any sense.

So this is where you do-- now that you've got them in here, you can rename and renumber. Just like before. You can go 1, 2, 3, hit OK, regenerate. You see how it renewed it? So that's how you do this.

Now this one, the north side topography and south site in the pond? Those are from the base map XREF. So if I go in here, the XREF for the base map, you'll see I have three views. I have a base map if I open it up. I just have views in here.

I have a pond, a north site, and a south site. So I've got to go back to my actual Model View tab, and right click in here. And under my sheet list-- I'm just going to put it in here so you can see what I'm doing. I'm going to Model Views, Place on Sheet. And you see I can right click when I place it, because obviously it was too big.

But I don't know what the scale was that I did it at. So we'll say 200. That's small. I'm right clicking again. Let's say 100.

That's about what I want. So you've placed a sheet view, it works. It will work. And then the match line thing, now that I've have got the call out block and the view in there, I can actually go back in here and place the match line on there as well.

Place call out block, place match line. And it will place the match line on there. And basically the match line is just our match line that works for our drawing.

I kind of covered that quickly at the end. But I want to show you part of the handout too. Because the real power behind this is what's given to you. I go fast. I know I go fast.

But the sheets-- like I said, there's a lot of data in there. There's so much you can do. And I know there's a couple of managers in here that use it. And you guys probably go through and spend hours and hours training your staff on how to do it. So under the handout--

Publish staff-- so the handout's 80-some pages. There's appendices in there. Fill out the class feedback and please don't give me one. The handouts are worth it too, aren't they? No, the surveys are good because like I was telling people before, they use the word feedback.

I used to take it pretty tough back years ago, but it actually helps. It helps if you do-- just be honest about everything. So fill it out. I don't know what the story is behind it anymore. And this is what I wanted to show you.

So you got this handout that you can download. There's additional materials to download. The data set will be uploaded. There's over 25 videos. I'm on the Knowledge Network, and I have a collection called Sheet Set Management.

And you'll see everything we talked about. Removing Headers and the SAN Table. I don't even know-- is that actually what we were talking about? That might be it! So I made a video on it and didn't even know it.

Isn't that awesome? Hey, I'll tell you something true, though. What happened, I was in Oakland, California. And we were working at a design job. And I was in the conference room, and we were doing a ditch to a channel.

And I was like, oh man. I can't remember how to do the slope. So I searched it and I found myself. An article. And I'm like this is completely-- I go obviously I know how to do it.

I don't know what-- I did find myself. I was like, I can't believe I did that. But anyway, I can't do everything in 90 minutes. I can give you the material you need for you to go back and succeed. That's my goal.

So check out the screencast site. The handout's hyperlinked. Everything in the handout will take you. All these videos are up there. They're free to use.

Have at it. You can download them. You can do whatever you want with them. So thanks

everybody. Thank you.

[APPLAUSE]