

ISU Senior Design Project Meeting Minutes

Date:	October 25, 2019
From:	
Subject:	Fairlawn TLC Projects Progress Meeting Notes
	Dial-in Number: +1 (816) 666-7054

Meeting Attendees:

BMcD	
Joey Enright	X
Grant Herrman	
Peter Jensen	

ISU	
Kaitlyn Ziska	X
Salvador Salazar-Garcia	X
Robert Huschak	X
Brian Mace	X
Justin Fischbach	X
Brandon Kaas	X
Professor McCalley	X

A summary for the meeting discussion provided below:

1. Agenda

a. Plan View

- i. Questions
- ii.

2. Action Items

- a. test full access to google drive
- b. First draft of one line by 10/4
- c.

Plan View Questions:

Justin: Is there an H frame example? How should we illustrate a termination tower with both lines and H frame

Joey: Most of the termination towers should use stand off insulators, transmission drops, use fittings to clamp cable to rigid bus.

Justin: does it have to be over the top of the breaker?

Joey: no, better if its not.

Joey: disconnects are mounted vertically transmission line drops to a vertical disconnect switch mounted on horz. beam , other side drops to bus using normal cable.

Joey: pick a flat piece of the bus and put it over that.

Robert: we need disconnect switches on each side of the breaker and at each line position?

Joey: yes. Reference comments of one line as well. Not needed but normally included.

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Brandon: touching base on the one line, Should we expect more comments on it?

Joey: no, it looks pretty good, and we are busy enough that we can move forward.

Sal: the scaling seems to be a little off on AutoCAD. Specifically with the bus cutting schedule.

Joey: I'm not sure but the scale wasn't a priority when picking examples. If your missing CAD cells let me know.

Justin: we will use the minimum distancing requirements as our scale.

Joey: you can also use the bus tubing as a dimension. Also, the phases on the disconnect should be a standard spacing you can use as well.

Robert: Are we worrying about building within a certain size? A specific lot size?

Joey: I tried to find a good plot near campus as a hypothetical, but couldn't find a specific one, but it should fit within a couple acres. Reasonable bounds.

Justin: we were also confused how to connect the transformer as well.

Joey: that's a good question, I'll try to find an example and send it to you, Breakers and in between them you need to tie in the Xformer. I can't picture it off the top of my head.

Brian: what sections views will we need?

Joey: it will depend on the drawing. Northwest corner, and southwest corner so you can see disconnect breaker and termination another showing xformer tie in on right hand side, But once you get the structure we can pick and choose the sections that give the most benefit.

Joey: Looks like the southside will need some between the breakers needs to be a line exit or a xformer. The way it is here, on the north piece of bus, and the south one will have something between them.

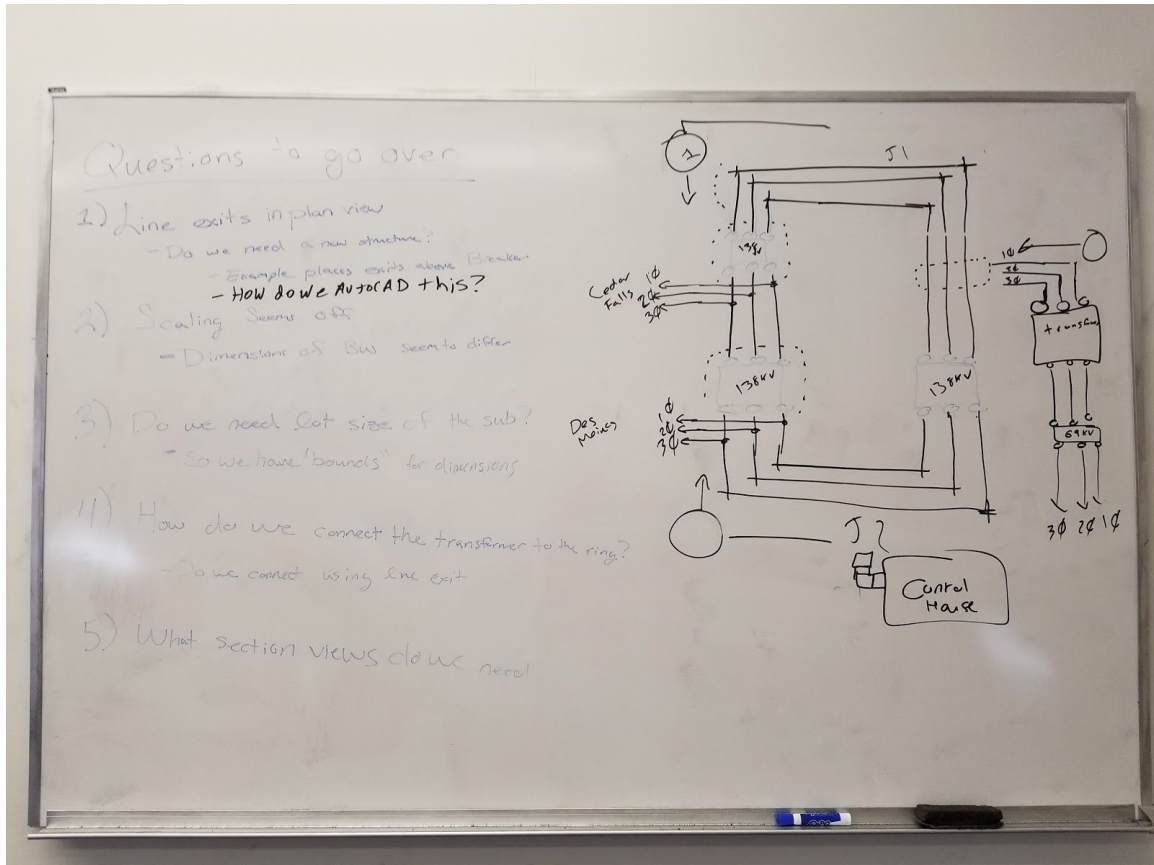
Justin: yeah, the only thing we haven't put in is the xformer tie in. But that sounds good.

Sal: what will be the next expectation for next friday?

Joey: Full Plan view and go ahead and put in two sections cuts with the most detail. Do you have CAD Cells for section view?

robert: yes, but on with the line exit above the ____, if we aren't doing that we will need another example.

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Please send any corrections or additions to the meeting notes to Bjkaas@iastate.edu