

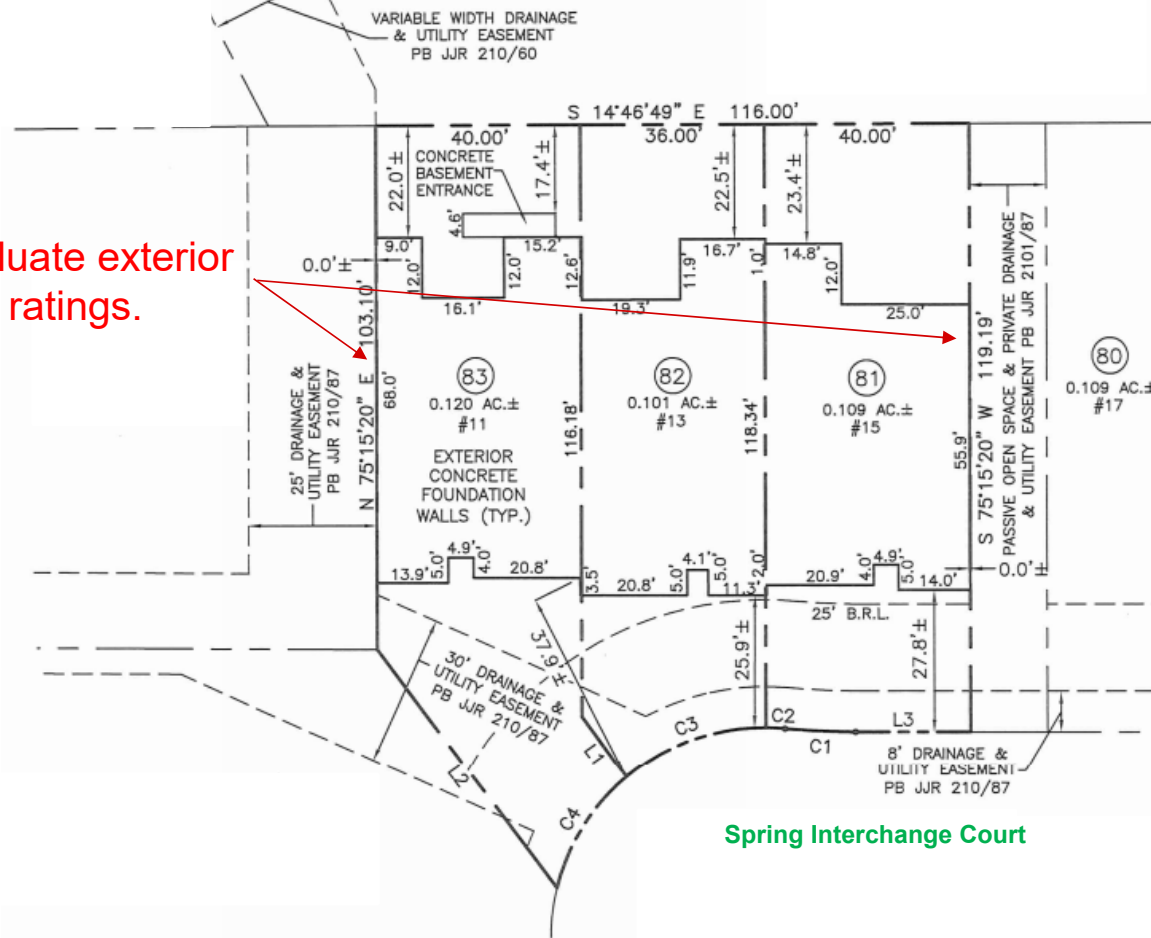


# Plan Review Exercise Handout



# Spring Interchange Court – Site Plan

Evaluate exterior wall ratings.



Spring Interchange Court





# Practice Exercise 1

## 10 Minutes



# Practice Exercise 1

- Based on the plans, determine which Jurisdiction the home is being constructed in?

# Practice Exercise 1

1. Identify the ground snow load indicated on the plans and the required ground snow load from Table R301.2 (1).

Plans \_\_\_\_\_ Figure R301.2(4) \_\_\_\_\_

2. Identify the wind speed indicated on the plans and the min design wind speed From Table R301.2 (1).

Plans \_\_\_\_\_ Figure R301.2 (2) \_\_\_\_\_

3. Identify the minimum fire separation distance for each of the four cardinal directions.

North \_\_\_\_\_ East \_\_\_\_\_ South \_\_\_\_\_ West \_\_\_\_\_

# Practice Exercise 1

4. Do the plans have a critical error that would prevent you from continuing with plan review?
  
  
  
  
  
  
  
  
  
  
5. Do the plans provide for the proper slope form the foundation?



# Practice Exercise 2

## 10 Minutes



## Practice Exercise 2

1. What is the ceiling height identified on the plans and where on the plans is that notation made?
2. Do the bathrooms have the proper ventilation?
3. For Bedroom-4 how what is the minimum required net free ventilation opening?





# Practice Exercise 3

## 10 Minutes



## Practice Exercise 3

1. Locate three hazardous glazing locations and identify if the glazing is compliant.
  
  
  
  
  
  
  
  
  
  
2. What type of garage protection has been provided.



# Practice Exercise 4

## 10 Minutes



## Practice Exercise 4

1. Can compliance with EERO requirements be ascertained from the plans?
2. Is window fall protection required? If so, do the plans have sufficient information to demonstrate compliance?

## Practice Exercise 4

3. Are the stairs in compliance with egress provisions?
4. Are the handrails and guards in compliance with applicable provisions of Chapter 3?



# Practice Exercise 5

## 10 Minutes



## Practice Exercise 5

1. Are smoke alarms required for this dwelling?
2. Are carbon monoxide alarms required? If so why?
3. Identify the locations of smoke and CO alarms and assess if these are located per the 2021 IRC.

## Practice Exercise 5

4. Review smoke alarm and carbon monoxide alarm details from plans and identify and deficiencies.





# Practice Exercise 6

## 10 Minutes



## Practice Exercise 6

1. Identify a minimum of two locations where wood may be subject to decay?
2. What type of method was used to protect wood from decay.

## Practice Exercise 6

3. Is draftstopping required on the floor systems? Is it required?.
4. Are the floors required to be fire protected? Why?



# Practice Exercise 7

## 10 Minutes



# Practice Exercise 7

1. Identify the correct climate zone for this project.
2. Identify the Compliance method that was indicated on the plans?
3. Is there enough documentation provided to be able to complete an energy review based on the compliance method indicated?

# Practice Exercise 7

4. Assuming the compliance method is *R*-value alternative what would the min *R* values be and the Max *U* Factors for each building thermal envelope component.

Component	Table Value	Plan Value
Fenestration <i>U</i>		
Skylight <i>U</i>		
Glazed Fenestration SHGC <i>U</i>		
Ceiling <i>R</i>		
Wood Frame Wall <i>R</i>		
Mass Wall <i>R</i>		
Floor <i>R</i>		
Basement Wall <i>R</i>		
Slab <i>R</i>		
Crawl Space Wall <i>R</i>		

## Practice Exercise 7

5. Would this project comply with *R*-value alternative method?
6. Identify the lighting control from the plans?
7. Identify the conflict on the cover sheet for ceiling insulation value and the cross section provided on page A-5.