

Drainage Inlets

- ➔ General Overview of Placing Drainage Inlets in the field
 - Inlets may have to last 50 – 60 years
 - Small Details are Important
 - A few minutes of advance planning may save hours of construction time



Precast Inlets

⇒ Rule for Shop Drawings

- Don't need shop drawings if the Inlets match the standard drawings
- If the Inlets are different, they need shop drawings
- Field Modifications
 - Shouldn't be busting out walls to make the pipes fit
 - Doghouses



Precast Inlets

➔ Checklist for a fast installation:

- Make sure the pipes fit in the holes before the inlets arrive on the site
 - Pay special attention to diagonal pipes
- Use lifting holes
- Have adequate layout
 - Consider both alignment and orientation

Cast-in-Place Inlets

➔ Basic Rules

- Use Concrete, not block
- NO RED BRICK
 - New Castle County requires red brick for sanitary sewers, don't confuse that with state drainage inlets
- Don't forget steps
 - Take a minute to make sure the placement of the steps will allow easy access to the inlet

Cast-in-Place Inlets

➔ Even though it takes extra time:

- Tie the rebar, especially in the hoods
- Remove the forms and the foam inserts
 - The inlets won't work if the foam stops the water
- Don't put the grates on backwards

Backfill

➔ General Rules

- Use 8" – 12" lifts
- Use approved backfill material
 - Usually borrow, type C
- Dig out far enough from the walls of the inlet to get large enough compaction equipment in the hole

Backfill

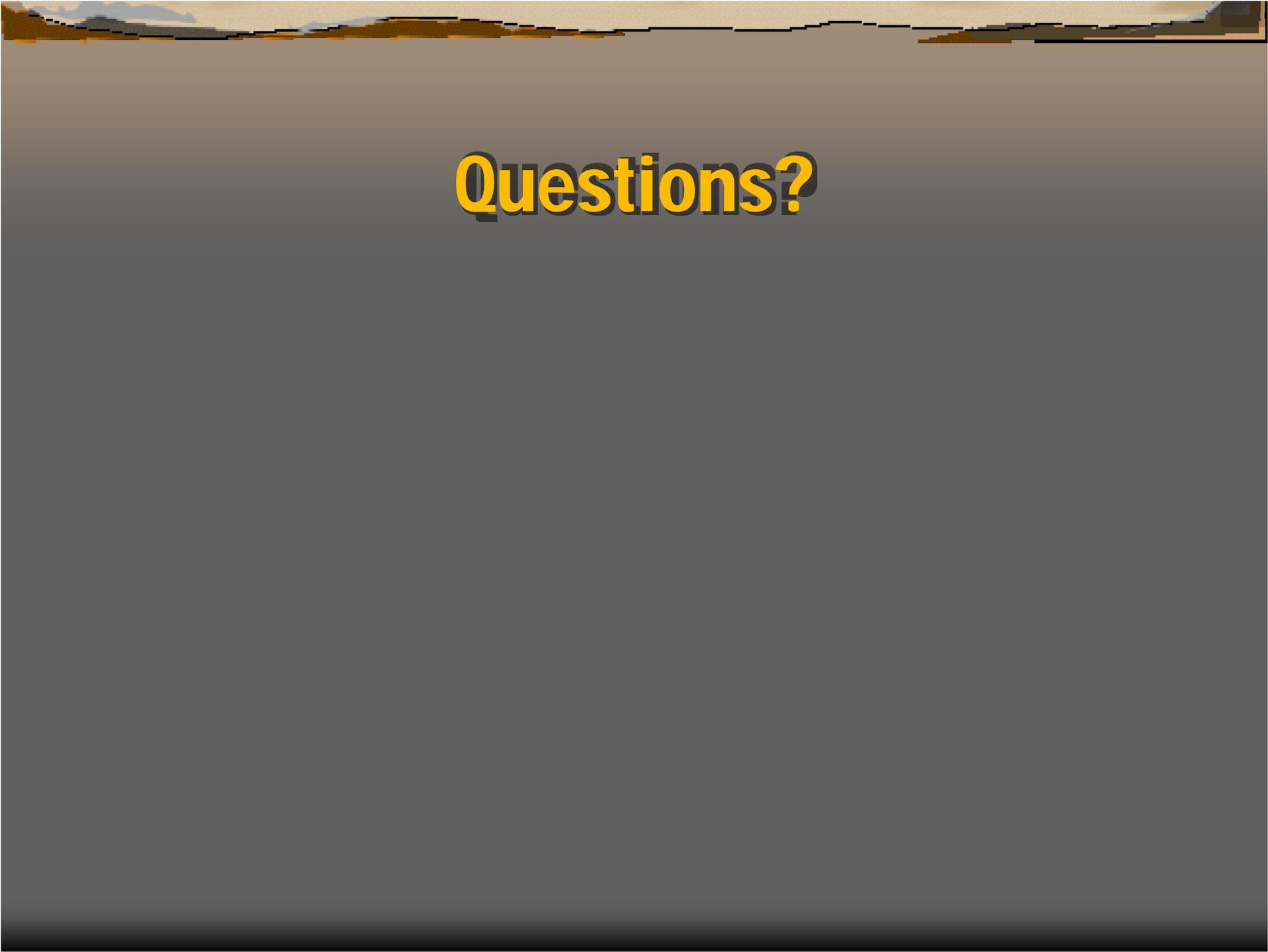
- ⇒ If backfilling with borrow type c is too time consuming or too difficult due to lack of space, consider using **FLOWABLE FILL**
 - You can use flowable fill to backfill part of an excavation

Confined Spaces

- ➔ Know the general rules
 - DeIDOT Confined Space Manual
 - 29 CFR Sec. 1910.146 (easy to find on OSHA's website)
 - If there is a potential for dangerous gas or lack of oxygen, use a sniffer and follow the rules
- ➔ Be extra careful in sanitary and combined inlets

Before the Final Inspection...

- ⇒ Pour flow channels
- ⇒ Clean out garbage, sediment and debris
- ⇒ Good looking drainage inlets are an easy way to make the whole job look good.



Questions?