

## Blueprint Interpretation

### 1. Mechanical Demolition Plan

1. Symbol for a thermostat (DM 1)
  - Diamond
  - Circle with shaded sections
  - Square with T inside
  - Circle with T inside
  - Box with X
2. DM-3's drawing area is divided into modules. Find module between lines 10, 12, a & b. How many CFM can the supply duct handle?
  - 12
  - 20
  - 144
  - 500
  - 1000
3. What is sheet P-3 used for?
  - Demolition
  - Mechanical
  - Plumbing
  - Painting
  - Fire Protection
4. What is the symbol for an exit sign? (DE-1)
  - Circle with triangle
  - Triangle with half shaded
  - Box with backward S
  - Square with JB inside
  - Circle with two quadrants shaded
5. These plans are for the demolition and remodeling of part of the Rowan student center. What is shown in E-2?
  - Offices
  - Owl's Nest
  - Cafeteria
  - Balcony
  - Parking

### 2. Charles City County Landfill

1. Sheet 3 shows the existing topography of Landfill Phase 1. What is the highest contour in the phase?
  - 110 feet
  - 140 feet
  - 180 feet
  - 200 feet
  - 240 feet
2. On Sheet 4 there is a small circle with an "A" & "20" in it. Pointing at the circle is a dashed-line arrow bent 90°. What is it?
  - Monitoring well location 20 A
  - Section line (detail 20, Sheet A)
  - Flare Tower A 20
  - Section line (detail A, Sheet 20)
  - Leachate Inlet A 23
3. Use Engineer's Scale & graphic scale to estimate width (East-West) of Phase IV | What is proper scale to use? (Sheet 4).
  - 120 feet | 20
  - 120 feet | 40
  - 930 feet | 20
  - 930 feet | 60
  - 930 feet | 40
4. Similarly, calculate the North to South slope of the Phase IV liner (as a fraction). Don't write on map!
  - 20 feet per 800 feet
  - 20 feet per 80 feet
  - 2 feet per 80 feet
  - 4 feet per 800 feet
  - 40 feet per 800
5. Two roads span the top of Sheet 12. One has a dotted line running along its center. What is the dashed line?
  - Lane separator
  - Storm Drainage Pipe
  - Sanitary Sewer
  - Water Main
  - Contour line

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### 3. Bishops Gate Corporate Center

1. Percent of site covered with impervious materials? | Maximum allowable percent? (Overall Site Plan)
  - 36 | 20
  - 64 | 80
  - 3.3 | 50
  - 16 | 40
  - 20 | 45
2. Elevation difference between curbs & gutters in parking lot? (Grading Plan)
  - 0.25 ft
  - 0.4 ft
  - 0.5 ft
  - 0.75 ft
  - 1 ft
3. What does a line interrupted with an ST mean? (Grading Plan)
  - Sanitary Sewer
  - Storm Drain
  - Water Main
  - Gate Valve
  - Contour Line
4. Amount of compacted aggregate base under decorative pavement? (Construction Details, lower right corner)
  - 2"
  - 4"
  - 6"
  - 8"
  - 10"
5. How are grates in inlet types E & B different? The grates are at street level. They let water into the inlet. (Last Sheet)
  - Different Length
  - Only one is next to a curb
  - Different Width
  - 4000 PSI concrete
  - 8" pipe

### 4. Country Walk

1. How many feet does an inch represent on Sheet 5?
  - 25 feet
  - 50 feet
  - 100 feet
  - 150 feet
  - 200 feet
2. Use an Engineer's Scale to measure the width of the proposed houses on Sheet 5 | What is proper scale to use?
  - 60 | 10
  - 60 | 50
  - 40 | 10
  - 40 | 50
  - 50 | 50
3. What is the slope of the sewer from Inlet #102 to Inlet #101 in the parking lot on Sheet 8?
  - 0.0021
  - 0.0053
  - 0.003
  - 0.0028
  - 0.01
4. What utilities are buried in the road called Court B? (Sheet 8)
  - Storm Drain (RCP)
  - Sanitary Sewer
  - Water Main
  - All three
  - Sanitary Sewer and Water Main
5. Look at the last sheet. How wide must the sanitary sewer trench be in the SDR – 35 PVC Sanitary Sewer Trench Detail?
  - D
  - 12 "
  - 6 "
  - 16 "
  - D + 16"

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### 5. Rowan Competition Pool

1. What scale format is used in S1?
  - Metric
  - Civil Engineering
  - Architectural
  - Graphical
  - Scale Factor
2. What is the view direction of Section 3/S2 on Sheet S2?
  - N
  - E
  - S
  - W
  - Up
3. In detail 3/S2, what is the radius of the fillet where pool sides meet the pool bottom (deep end)?
  - 2 feet
  - 3 feet
  - 4 feet
  - 5 feet
  - 6 feet
4. On sheet S3, what does the number 3 in a circle indicate?
  - 2.5 inch diameter PVC Capped
  - 8 inch drain (return)
  - Skimmer Return
  - 4 inch diameter
  - 10 inch diameter from Backwash
5. On sheet S4, what does the number 4.1 in a hexagon indicate?
  - A note for a detail
  - A note for the entire sheet
  - A note for the sheet set
  - 4.1 inches
  - 4.1 feet

### 6. Leachate System Improvements Phase II

1. Where is the leachate treatment facility relative to the landfill cell (In terms of N, E, S, W, given the North symbol on the sheet)? (C01)
  - N
  - E
  - S
  - W
  - UP
2. Do you think the North direction is indicated consistently on Sheets C01 and C02?
  - Yes
  - No
3. What is the scale of detail D C05? (C05)
  - 1 inch = 120 feet
  - As Noted
  - 1/4 inch = 1 foot
  - 1/2 inch = 1 foot
  - 1 inch = 10 feet
4. What is L1 in Detail D C05? Look at detail just below D C05. (C05)
  - Jamb
  - Side Elevation
  - Front Elevation
  - Interior Wall
  - Lintel
5. How wide is the bottom of the foundation footing in Detail F C05? (C05)
  - 1 feet
  - 2 feet
  - 3 feet
  - 4 feet
  - 5 feet

Note: **red** and **green** comments on these sheets are Engineer's corrections, for draftsman.