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What to talk about

1. ERRS Systems
   - Hydrants on construction sites
   - Maintenance of private hydrants
   - FDC’s
   - Two ways In/Out for subdivisions
Situation for Capt. Ebbt

- Finds victim, running out of air.
- Vibralert is going off. He does not have a lot of time. Last of the alarms. GET OUT NOW!!!
- Listen to importance of his radio
- He is “roasting” his air bottle
- Taught to make noise on radio if you cannot talk. It is what he does. Radio ID will show what walkie it is.
- His walkie is “Engine 8A”
Typical Bi-Directional Amplifier System

Modern steel/concrete/tinted glass buildings are essentially “radio opaque”... signals do not penetrate in or out.

The loss works in both directions...!
Water Supply

- **OFC 3312.1**
  - 3312.1 states, “An approved water supply for fire protection either temporary or permanent, shall be made available as soon as combustible material arrives on site.”

- **400’ travel distance rule is used.**
  - Measured as the fire apparatus will lay hose from hydrant to building.

  Have hydrants face street, not building…. 
Need Two ways In/out
Appendix is used in Columbus

D107.1 One or two family dwelling residential developments. “Development of one or two family dwellings where the number of dwelling units exceeds 30 shall be provided with two separate and approved fire apparatus access roads.”

- Sprinkler the houses, no limit
- Future access roads as determined by the Fire Official.
Hide and Go Seek FDCs
2509.8.6 Strobe. A blue colored lens strobe warning devices located above the FDC at a height of 10’ from grade shall be provided. A lower height may be approved by the fire code official. The strobe shall operate with any fire alarm activation within the building.

2509.8.7 Access. The FDC shall be located so that firefighters and fire apparatus can make immediate access. Obstructions such as fences, bushes, trees, walls, electrical transformers, dumpsters, vehicles, gas meters, automobiles or other similar objects shall not be permitted for new or existing installations. There shall be 6 feet of clearance around each FDC.

2509.8.9 Sign. Each FDC shall be provided with a sign to indicate the pressure required at the inlets to deliver the standpipe and/or sprinkler system demand.

FDC must go on the front address side, or approaching side of building.

Location signage is a must
FDC Signage

- Red sign, white letters. Reflective
- FDC in 6” letters
- 2” letters underneath stating
  - Location system services if more than 1 FDC
  - System(s) FDC serves
  - Operating pressure and gallons
FDC
AUTO SPRINKLER/STANDPIPE
170 GPM/148 PSI

(FOR A STRIP MALL)
FDC
AUTO SPRINKLER
148 & 160 W. BROAD ST
80 GPM/90 PSI

(PARKING GARAGE)
FDC
DRY SPRINKLER/STANDPIPE
150 GPM/130 PSI
2505.04 Fire hydrant locations. This chapter of the Columbus Fire Prevention Code shall include in its entirety, and as changed from time to time, the Ohio Fire Code Appendix C, Fire Hydrant Locations and Distribution.

Exception: Fire hydrants on streets shall be spaced at 400’ for residential areas and 300’ for commercial areas.
2505.12 Private fire hydrants painting and color coding. All new private hydrant installations the developer shall color code the hydrant(s) to designate the level of service being provided by that hydrant.

2505.12.1 Installation color. All private hydrants shall arrive on site painted the standard red color. The contractor will perform flow tests to determine the gallons per minute (GPM) available at each hydrant.

2505.12.2 Flow testing. The contractor will provide a copy of the flow testing results to the fire code official.

2505.12.3 Identification. The contractor shall paint the bonnet of the hydrant according to the flow ranges as stated below.

2505.12.4 Color codes. All fire hydrants are also color coded as set forth in NFPA Standards, to indicate the expected fire flows from the hydrant during normal operation.

2505.12.5 Reflective tape. In addition to painting of the bonnet of the hydrant the contractor shall apply a matching Flexible Micro-Prismatic Reflective Tape 3M 973, or equal, on the barrel of the hydrant just below the bonnet and above the outlet on the hydrant.
# Flow Chart

<table>
<thead>
<tr>
<th>FLOW</th>
<th>Color</th>
<th>Match Color Paint</th>
<th>Reflective Band</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 1500 GPM</td>
<td>Light Blue</td>
<td>Sherwin Williams Industrial Enamel Laser Blue SW4079*</td>
<td>3M 973-75* &lt;br&gt;NFPA Blue</td>
</tr>
<tr>
<td>1000 to 1500 GPM</td>
<td>Green</td>
<td>Sherwin Williams Industrial Enamel Safety Green SW4085*</td>
<td>3M 973-77* &lt;br&gt;NFPA Green</td>
</tr>
<tr>
<td>500 to 999 GPM</td>
<td>Orange</td>
<td>Sherwin Williams Industrial Enamel Safety Orange SW4083*</td>
<td>3M 973-74* &lt;br&gt;NFPA Orange</td>
</tr>
<tr>
<td>Less than 500 GPM</td>
<td>Red</td>
<td>Sherwin Williams Industrial Enamel Safety Red SW4081</td>
<td>3M 973-72* &lt;br&gt;NFPA Red</td>
</tr>
</tbody>
</table>
NFPA 241

- NFPA 58 for propane storage
- Is propane heavier or lighter than air?
- Lot lines, building distances hard or impossible to meet.
  - We understand, but propane does not care
- I have seen natural gas pumped in.
Demo for Propane
Heart attacks are more likely to occur on Monday.

ABBA turned down 1 Billion dollars to do a reunion tour

It's possible to lead a cow upstairs...but not downstairs

TYPEWRITER is the longest word that can be made using the letters only on one row of the keyboard