Onsite Leadership

“Learning from the Past . . . . Preparing for the Future”

Images from the decades
Seat belts!

- Provided in vehicles only as an option
- Now standard and a legal requirement
Safety Belts

- Replaced the fall protection method of ‘holding on’ with your hands!
Single Lanyard

- Single lanyard connected a safety belt to a support as a required fall protection

... Although a single lanyard cannot provide 100% fall protection!
Fall Protection

- Safety Harness, with double lanyard
- Allowed for sufficient time needed for extraction without suffocation
- Double Lanyard enabled true 100%
  Fall Protection
Electronic Mail, now E Mail

- Supplemented written communication
- Telex’s, then faxes, then email
- Evolved to include attachment capability
Blueprints

- Were actually ‘blue’
- Hand lettered
- Templates and straight edges used
8 Track Tapes

- Major advancement from reel to reel
Cassette Tapes

- Big advancement from 8-track tapes
Bluetooth

- Wireless connections
Dot-matrix printer

- Big advancement from images made by striking against an ink ribbon
Driverless vehicles

- Exist now
Drones

- Unmanned aircraft vehicles
Big advancement from plastic tape . . . .

Beginning from reel to reel devices, to

8 track tapes to cassette tapes to plastic media such as DVD’s and CD’s
Floppy disks

- Plastic storage components
- Rewritable and non-rewritable
- 5 ¼” then 3 ½”, now extinct
Internet

- Global electronic connection
- World Wide Web
Communication

- First was telephone and telegraph
- Now Email, Skype, Sametime, WhatsApp, Line, Texts, and more
Weather forecast

- Look up in the sky
- A real issue that impacted construction sites, safety, and progress
Weather channel

- 24/7 global coverage
- On your Smart Device, phone, car and television
Microwave Ovens

- Enabled more flexible menu for staff and workers
Personal Computer

- Replaced reliance on main frame computers
Laptop computer

From main frames to personal computers . . . . To laptops, notebooks, ipads, and other devices
Smart phone

- Apps Apps Apps
- Also alarm clock, video and still photo camera, tracking device, encyclopedia, and so many other uses . . . Even has personal assistant!
Advanced Laptop

- Were thick and heavy, with big batteries
- Evolved to be lightweight with detachable screens
Robots were fictional characters from "Lost in Space" or the "Jetsons"
Now they perform many routine and complicated functions
Long before next 50 year ECC celebration, we will have ‘craft-bots’ construction our jobs
Robotics

- Became commercial and now expanding
Philadelphia Rod

- Used by surveyors together with a level to determine existing elevations and layout new
OSHA

- President Nixon signing OSHA into law
- Created a new agency in the Dept of Labor; a new governance and standard for plant and personnel safety
Slide rule

- Preceded the calculator for math calculations
Chalkboard

- ... With chalk
White board

- Replaced black board and chalk
Smart board

- Black board to white board to smart board!
Surveyor’s Tool

- A ‘chain’ used to measure horizontal distances
Surveyor’s Chain

- For horizontal measurements
- No electronics, no GPS
- Held manually together with a plumb-bob to measure distances; reading had to be manually adjusted for temperature
Measuring Tape

- With convenient handle and crank mechanism to recoil
Telex machine

- Provided typed messages thru phone line
- Note rotary dial which also disappeared in the 70's
Theodolite Transit

- Surveyors best friend
- Accurately measures angles, both horizontal and vertical
- Centuries old, but only in recent decades was modernized
Wifi

- Household word
- Long way from Hi-Fi
Yellow Pages

- Business telephone listing
- Best friend for procurement and buyers
- There were white pages too!
Electric Typewriter

- Initial was just electric
- Then with memory
- Programmable
Equal Opportunity

- EEO, Affirmative Action and all HR
Basic Calculator

- Basic functions with LED
- Then rechargeable
- Then scientific functions
- Then programmable
- Then quartz crystal
- Then solar charging
Vocabulary expansion

- Bytes, kilobytes, megabytes, zegabytes
- Wifi, Bluetooth,
- CD, DVD
- USB, HDMI,
- Modularization!
- Work packaging . . . Advanced Work Packaging!
- Human Relations / Human Resources
- EEO, Affirmative Action, Diversity
- ISO 9000