

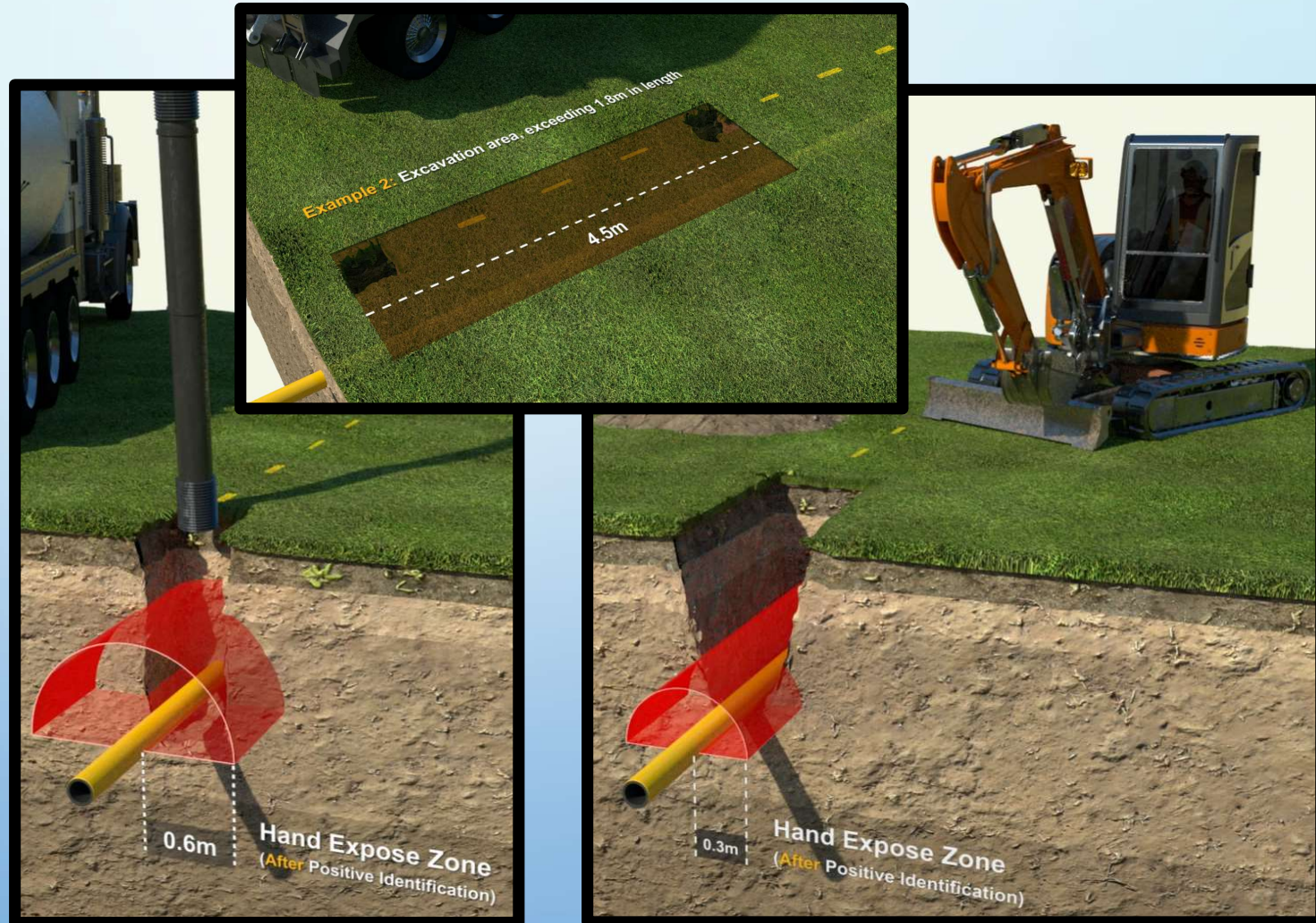
LOCATE PROCESSES AND APPLICATIONS DURING CONSTRUCTION

- CHANGES IN GROUND DISTURBANCE PROCEDURES AND PRACTICES
- CHALLENGES LOCATING
- MAINTAINING LOCATES

CHANGES IN GROUND DISTURBANCE PROCEDURES AND PRACTICES

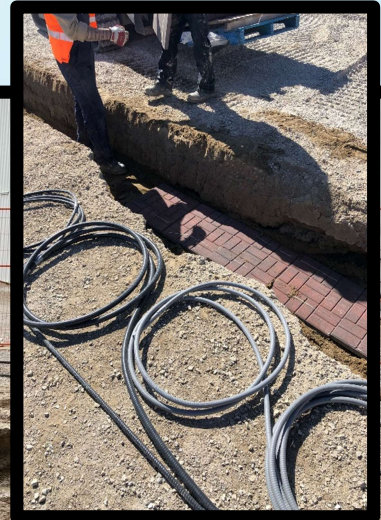
- LOCATE PROCESSES

- ONE CALL
- TOPSOIL
- SAFE EXCAVATION
DISTANCES BY PIPELINE TYPE
- 2 INDEPENDENT LOCATES
- 4 WAY SWEEPS BEFORE DIG



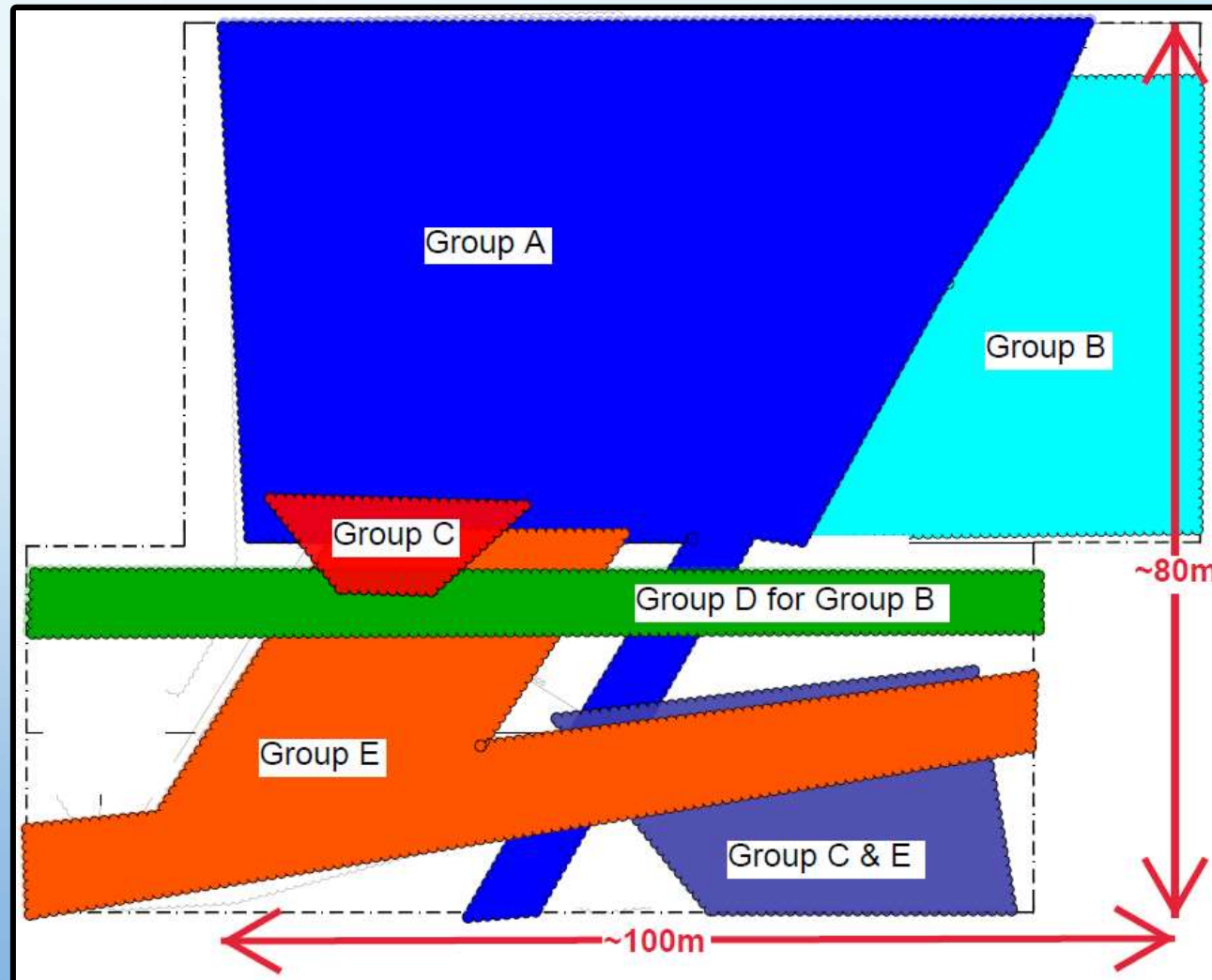
CHANGES IN GROUND DISTURBANCE PROCEDURES AND PRACTICES

- CONSTRUCTION PRACTICES
 - MARKER BALLS
 - PERIMETER TRENCH
 - IFK ATTACHMENTS
 - ABOVE GRADE TERMINATION OF WIRING
- AFTER THE LOCATE
 - PIPE SHIELDS
 - RED CONCRETE, PLANKS, MARKER TAPE



CHANGES IN GROUND DISTURBANCE PROCEDURES AND PRACTICES

- COMBINING INFRASTRUCTURE
 - COMMUNICATION BETWEEN GROUPS
 - CHANGES IN GROUPS PERFORMING LOCATES
 - SHARED STATIONS/INFRASTRUCTURE



CHALLENGES LOCATING

- RESOURCES
 - PROVIDING LOCATES FOR ALL ACTIVITY UNDERWAY
 - LOCATING LARGER AREAS
 - LOCATING COMPLEX SYSTEMS
- RESPONSE TIME
 - TIME BETWEEN AWARD AND START DATES
 - CONSTRUCTION SEASON
 - WEATHER DEPENDENT WORK – TILE
- COMPLETION
 - HAVE ALL LOCATES BEEN ACQUIRED?
 - CROSSING AGREEMENTS



CHALLENGES LOCATING

- INCOMPLETE RECORDS
 - OLDER SYSTEMS
 - WORK OVER INFRASTRUCTURE THAT HAS NOT BEEN UPDATED IN RECORDS



CHALLENGES LOCATING

- INCOMPLETE RECORDS
 - OLDER SYSTEMS
 - WORK OVER INFRASTRUCTURE THAT HAS NOT BEEN UPDATED IN RECORDS



CHALLENGES LOCATING

- ABANDONED INFRASTRUCTURE
 - DISCONNECTED TANK
 - PLATED PIPE (BOTH ENDS PLATED)
 - ABANDONED CABLE



CHALLENGES LOCATING

- ABANDONED INFRASTRUCTURE
 - DISCONNECTED TANK
 - PLATED PIPE (BOTH ENDS PLATED)
 - ABANDONED CABLE



CHALLENGES LOCATING

- COMPLEX SYSTEMS
 - OVERLAPPING CP
 - INFRASTRUCTURE FROM MULTIPLE COMPANIES IN CLOSE PROXIMITY



MAINTAINING LOCATES

- DELAYED EXECUTION
- ACCESS ISSUES
- COMBINED USE OF DRY VAC/WET VAC
- PLOUGHING



LOCATE PROCESSES AND CHALLENGES DURING CONSTRUCTION

- CHANGES IN GROUND DISTURBANCE PROCEDURES AND PRACTICES
- CHALLENGES LOCATING
- MAINTAINING LOCATES