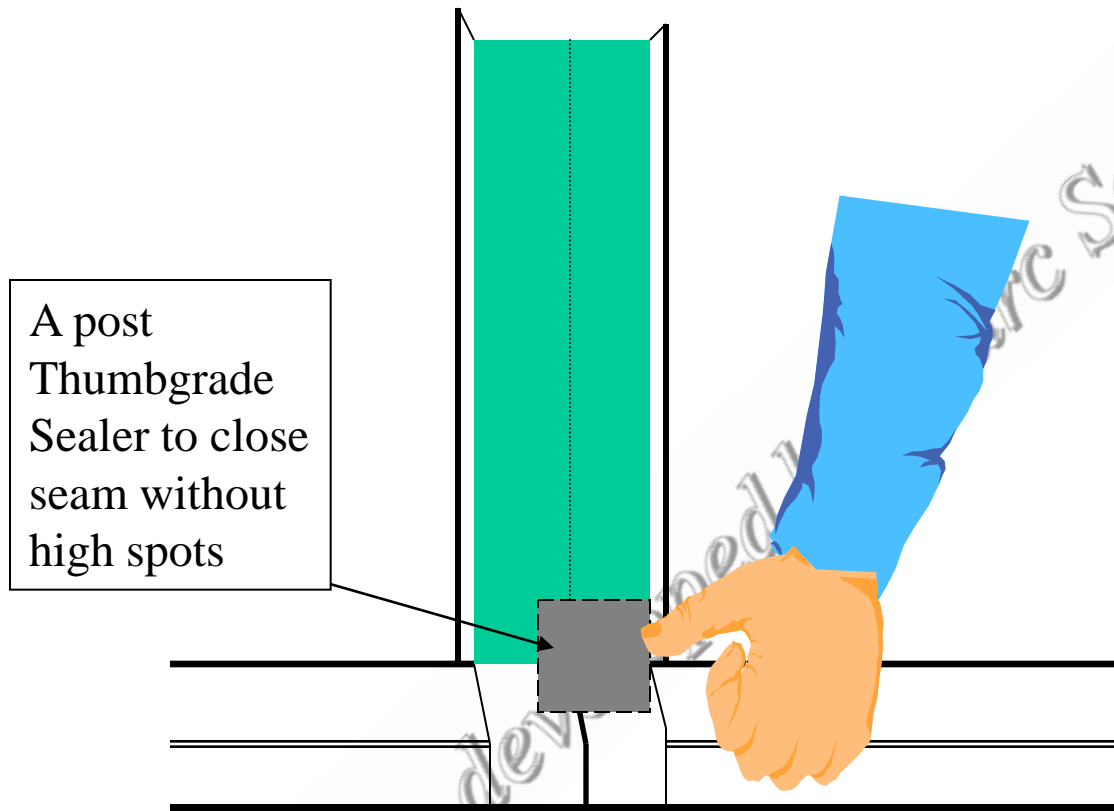


# PUMPABLE THUMBGRADE SEALER



A post  
Thumbgrade  
Sealer to close  
seam without  
high spots

Where there is an open mind, there is always a frontier.  
- Charles Kettering

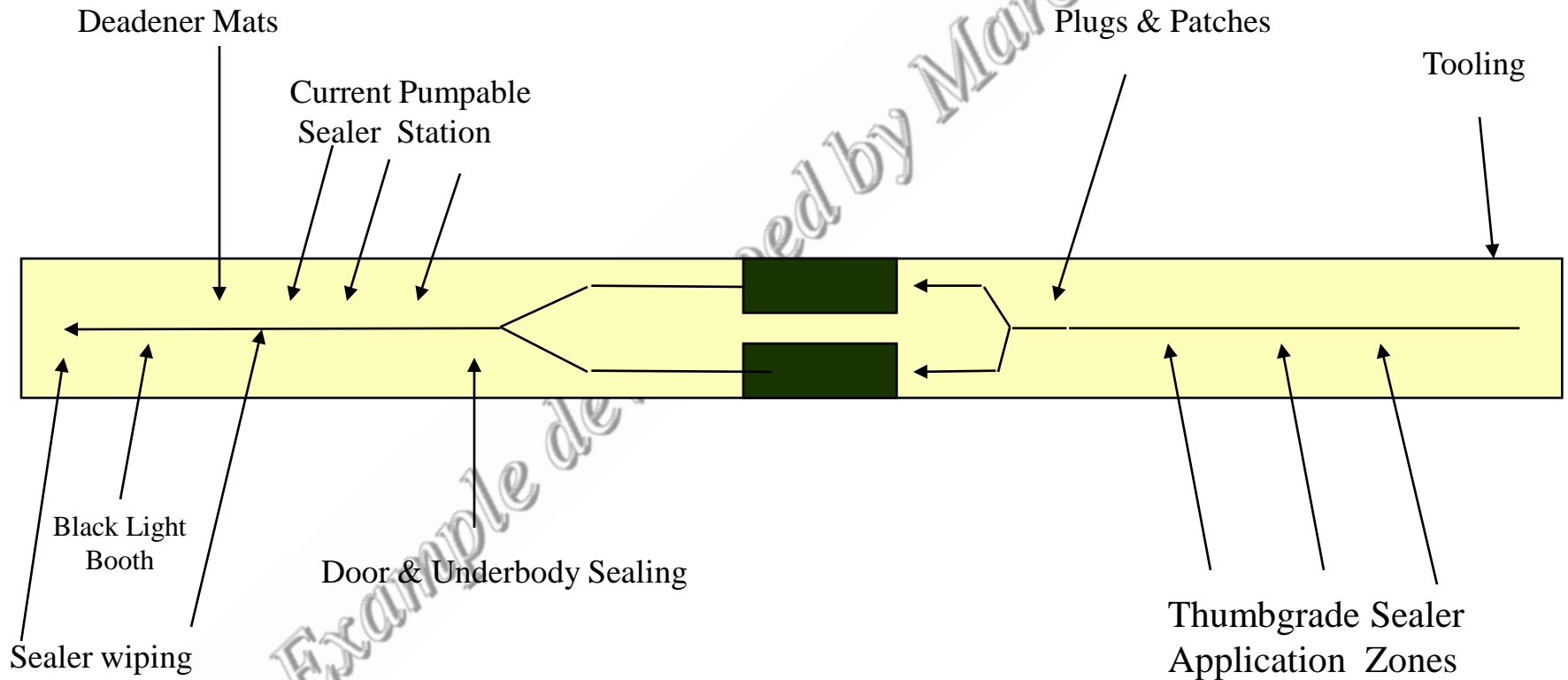
The enclosed project required a total of about 8 months from concept to implementation. It was initiated to improve quality by reducing water leaks from sealed joints. There were 34 different positions on the unit that required to be sealed to prevent water penetration (17 on each side). A team was formed led by me that attacked each location to correct the sealing process and eliminate leaks. Area by area was addressed and monitored. At the time a new pumpable product from Cemedine was introduced that flowed almost like a putty and was able to “bridge” gaps. After reengineering work stations and man-assignments, changes were implemented with the help of UAW technicians on three shifts. The team even had old pumps reconditioned to dispense the material at a much lower cost. The results on all accounts were excellent and are enclosed.

# PUMPABLE THUMBGRADE SEALER CURRENT MAN-ASSIGNMENT

MANUAL SEALER

ROBOTIC SEALER

LOW SEAL DECK

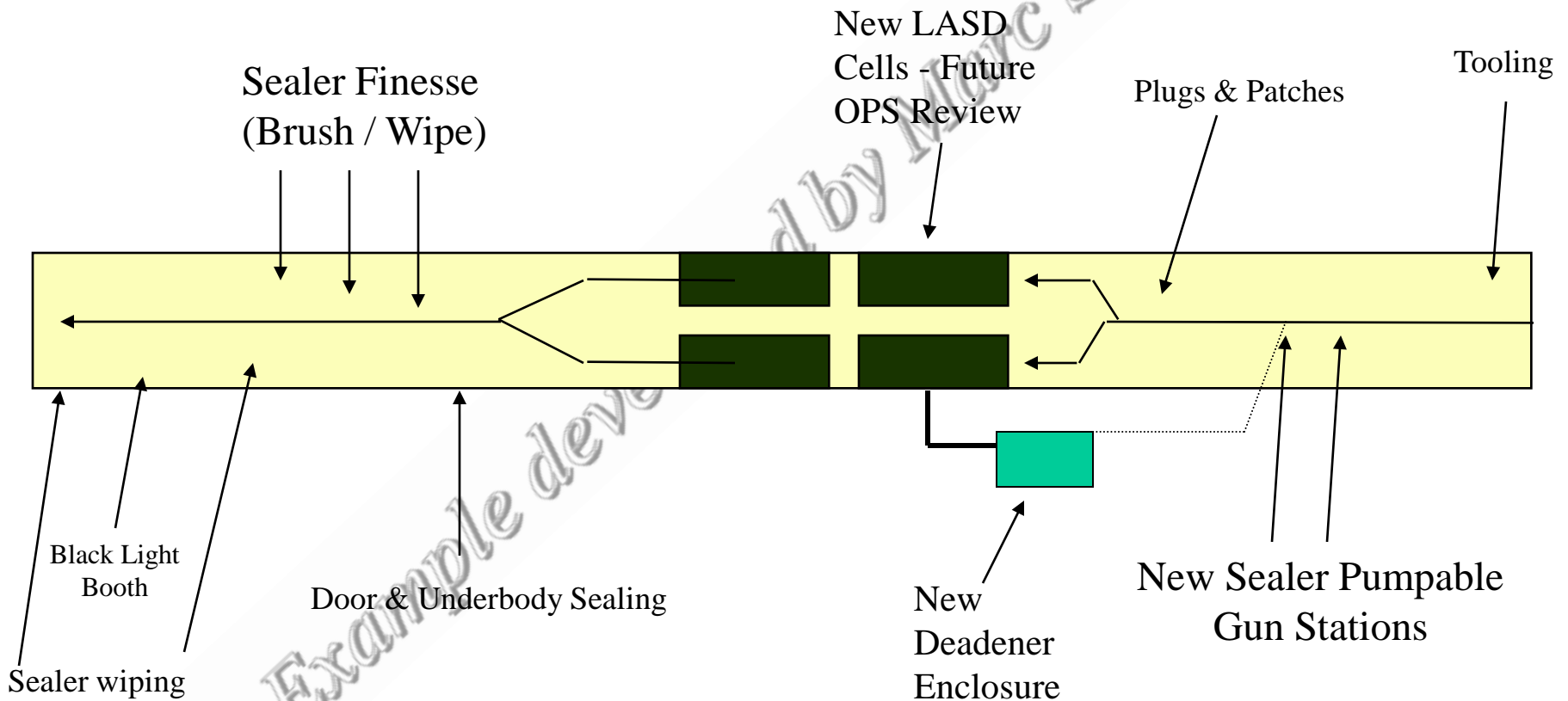


# SEALER SYSTEM REENGINEERED

MANUAL SEALER

ROBOTIC SEALER

LOW SEAL DECK

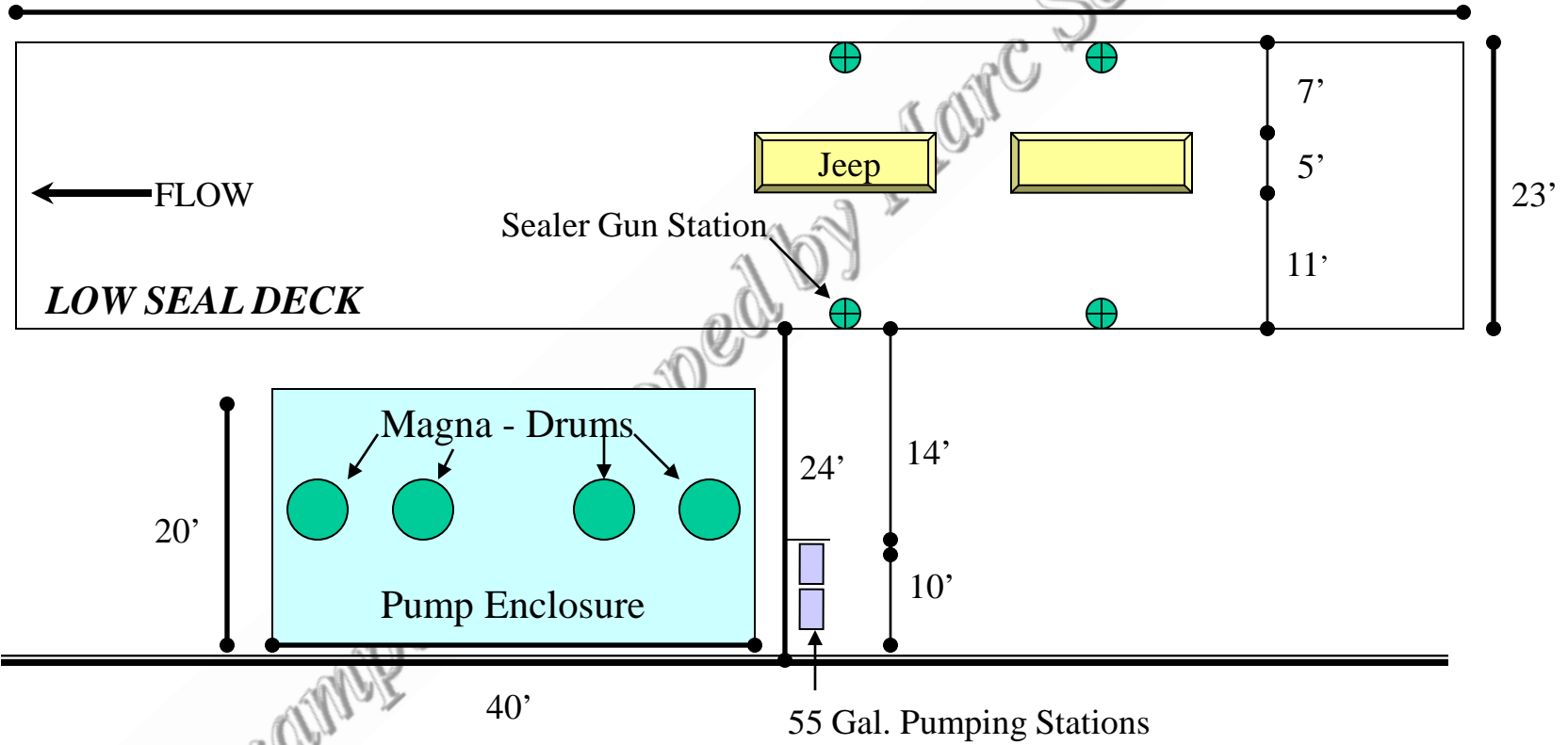


# PUMPABLE THUMBGRADE PUMPING STATIONS FOR LOW SEAL

STATIONS

..... 6.....5.....4.....3.....2.....1.....

120'



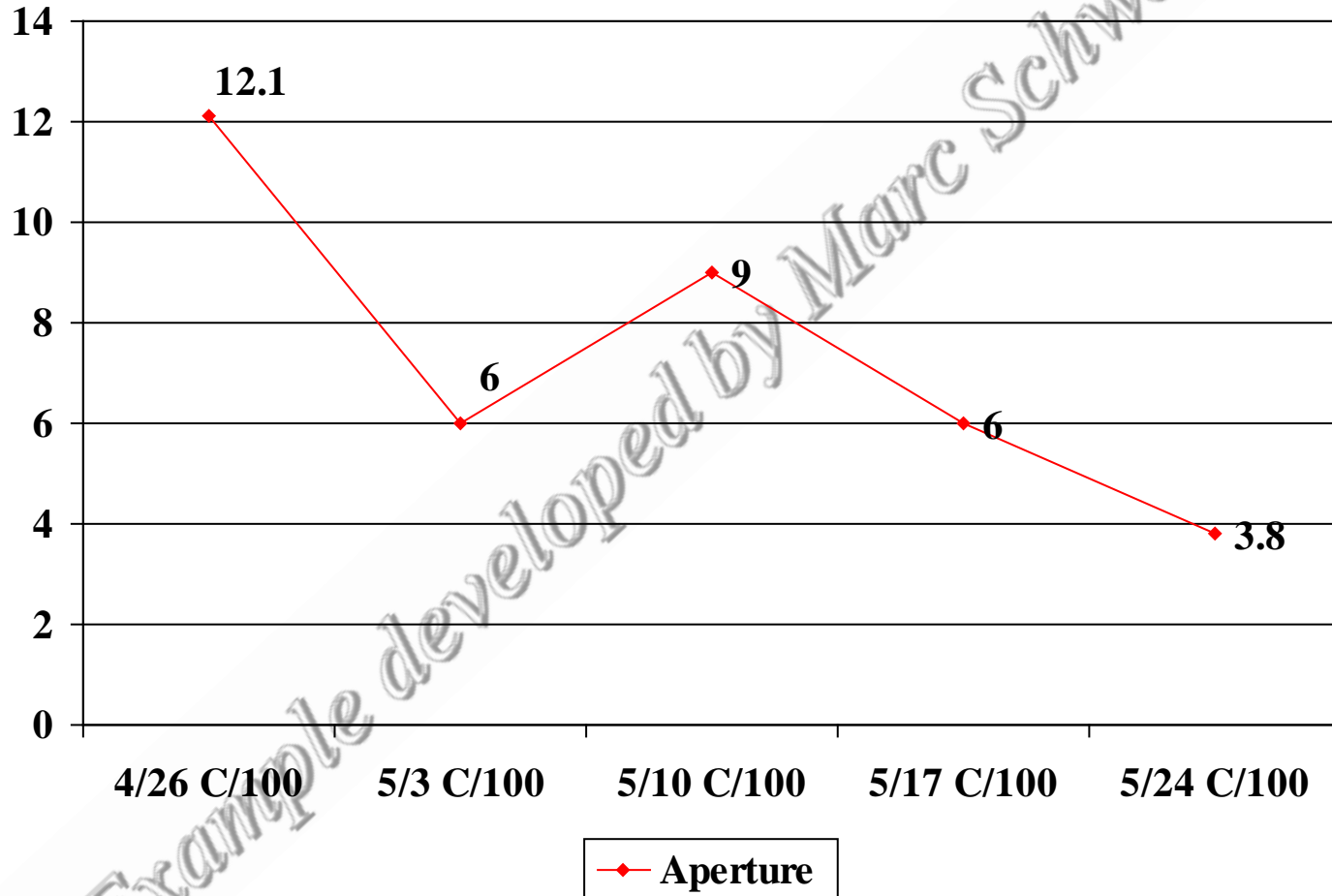
PB AISLE

21

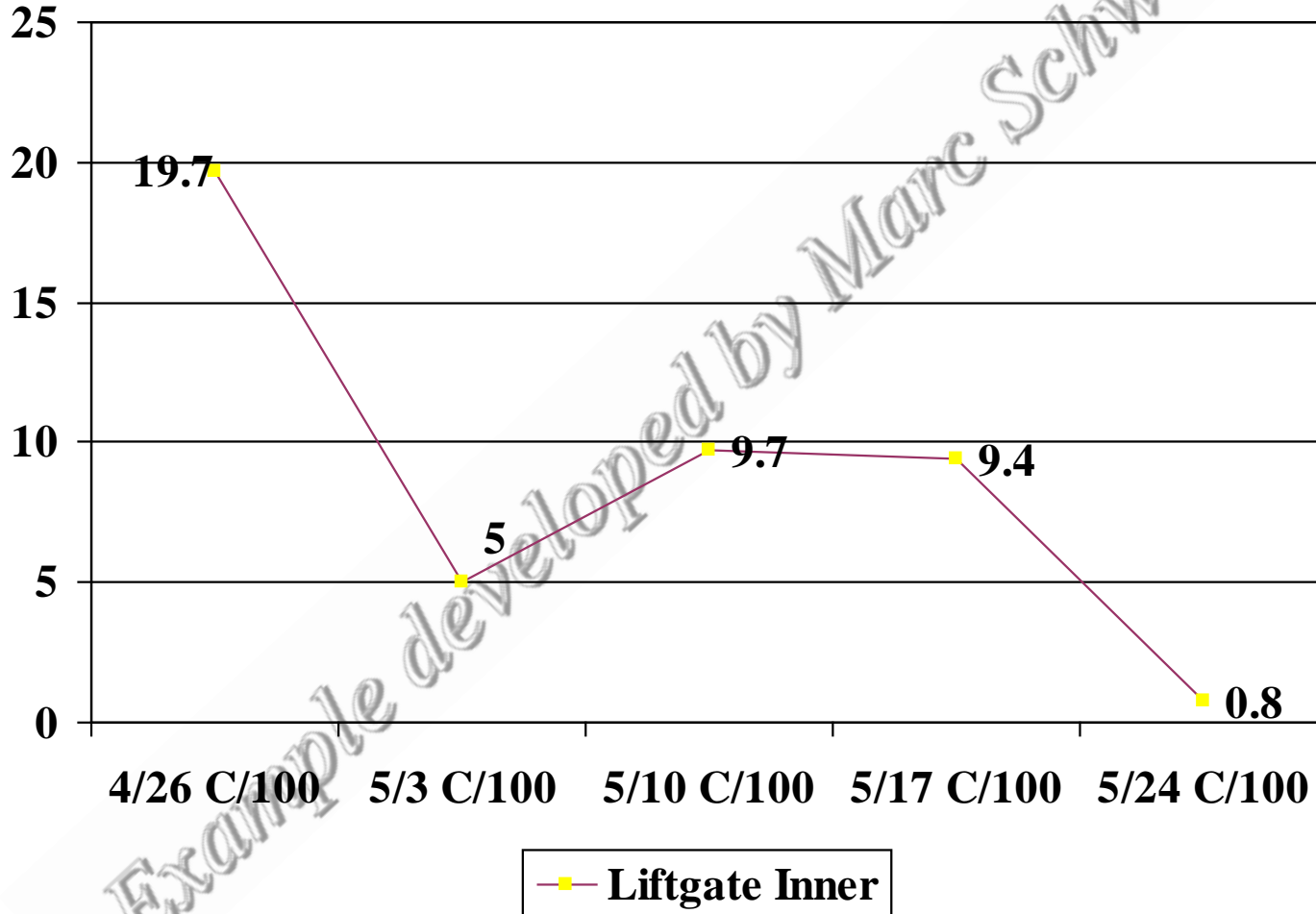
22

23

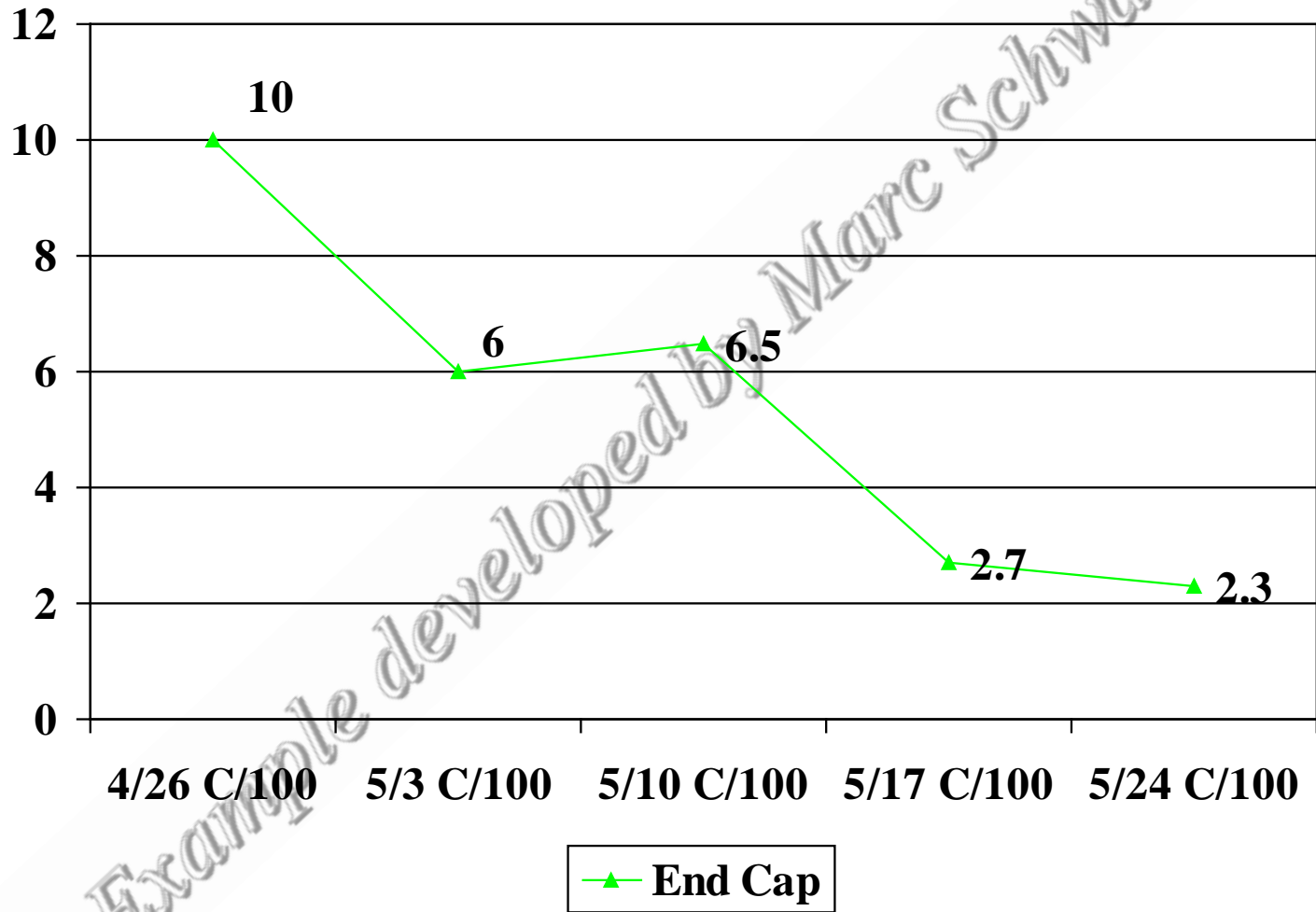
# THUMBGRADE SEALER ISSUES



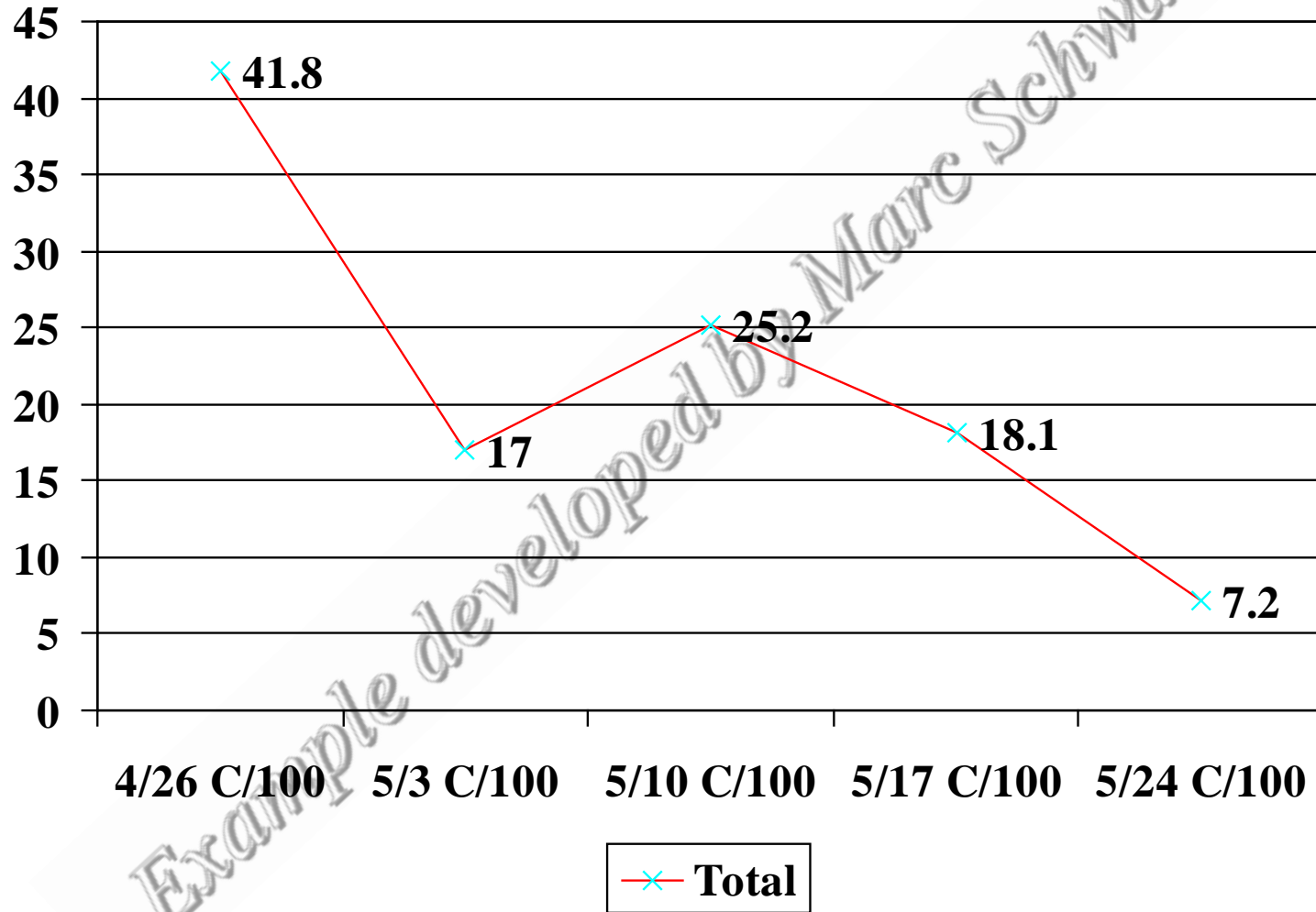
# THUMBGRADE SEALER ISSUES



# THUMBGRADE SEALER ISSUES



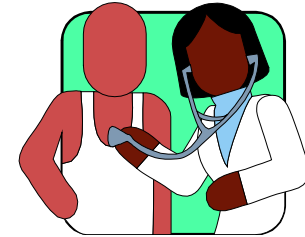
# THUMBGRADE SEALER ISSUES





# OVERALL BENEFITS OF REPLACING THUMBGRADE SEALER

- Health & Safety Improvements - removing use of hands as tools replaced by sealer brush, sealer wipe, or use of gun
- General appearance improvement
- Water integrity improvements (A & D Pillar)
- Cost reduction



# PUMPABLE THUMBGRADE SEALER SUMMARY

Averaged - 56 water leaks each month for the 3 months prior to Installation  
- Month of AUGUST HAD 3 LEAKS TOTAL!

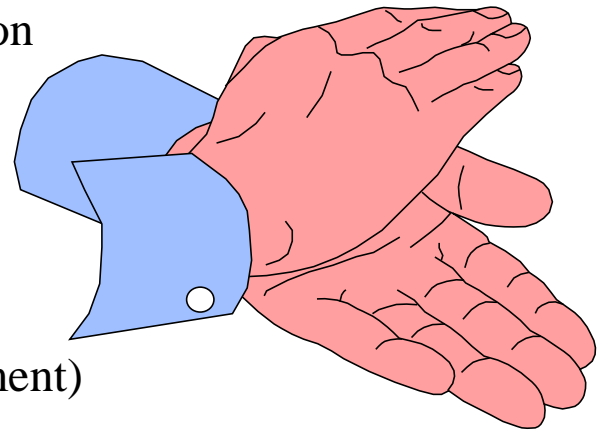
**PAINT AVERAGED 15% of WATER LEAKS - NOW UNDER 1%**

Process required about 8 months from concept to completion

Improved Appearance on “B Class” surfaces

Reduced injuries to metal + reduced medical visits

Continue to work on sealer clean-up (continuous improvement)



Example developed by Marc Schwartz