

CONSTRUCTION AND INFECTION CONTROL



CHASE HILDEBRAND

PROJECT MANAGER AT BOLDT CONSTRUCTION

LIVES IN: OSHKOSH, WI

ASSOCIATE MEMBER OF WHEA – CHAPTER III

EDUCATION AND PROFESSIONAL DEVELOPMENT COMMITTEE

WHAT IS THE PURPOSE OF ICRA?

- PROTECT PATIENTS
- PROTECT HOSPITAL STAFF
- PROTECT THE PUBLIC
- PROTECT CONSTRUCTION TEAMS

PROTECT PATIENTS

- TAKE A MOMENT TO THINK OF THE PATIENT POPULATION IN A HOSPITAL
 - DIVERSE EMOTIONS
 - WIDE RANGE OF LIFESTYLES
 - HIGH STRESS

PROTECT PATIENTS

- IMMUNOCOMPROMISED PATIENTS
 - HEALTHCARE-ASSOCIATED INFECTION (HAI)
 - INFECTIOUS AGENTS
 - NEWBORNS OR PEMATURELY BORN BABIES
 - OPEN WOUNDS
 - SPECIALIZED EQUIPMENT

PROTECT HOSPITAL STAFF

- HIGH STRESS WORK ENVIRONMENT
- HAZARDS TO PATIENTS ARE ALSO HAZARDS TO STAFF
- WORKING IN "THEIR HOUSE"

PROTECT THE PUBLIC

- CONSTRUCTION ZONES ARE DANGEROUS
- NEED TO ENSURE THAT HOSPITAL REMAINS SECURE
- UNDERSTAND SECURITY PROTOCOLS
- CONTAINMENTS SHOULD ALWAYS BE REVIWED BY SECURITY STAFF

PROTECT THE CONSTRUCTION TEAM

- WORK HAZARDS
- COMMON HAZARDS IN HOSPITAL WORK
 - Biohazards / Infectious Agents
 - Chemicals / Lead / Asbestos
 - Magnetic Fields / Radiation
 - Silica

IMPLEMENTING ICRA MEASURES











PROJECT CONCEPTION



PROJECT LOCATION



SIZE OF PROJECT (FOOTPRINT)



PHASING

DESIGN

- NORTH, SOUTH, EAST, WEST
- ABOVE BELOW
- WHAT DOES THIS PROJECT REQUIRE FROM AN MEP STANDPOINT
 - UTILITIES CLOSE BY
 - ADEQUATE SIZING OF UTILITIES

DESIGN

- LAYOUT SHOULD BE DONE WITH ICRA CONTAINMENTS IN MIND
 - ANTE ROOMS
 - CORRIDORS
 - PATIENT AND STAFF PATHS



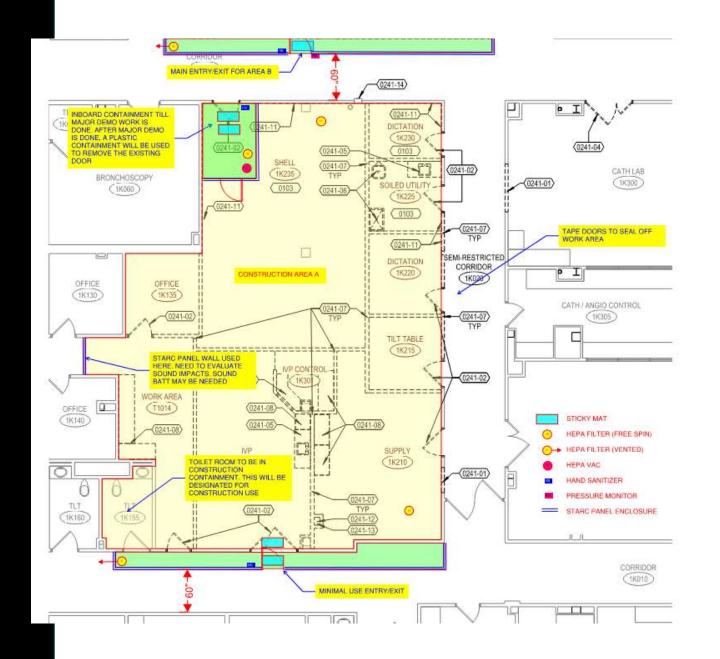
CONTRACTOR TO PROVIDE FLOOR PLAN SHOWING AFFECTED AREAS

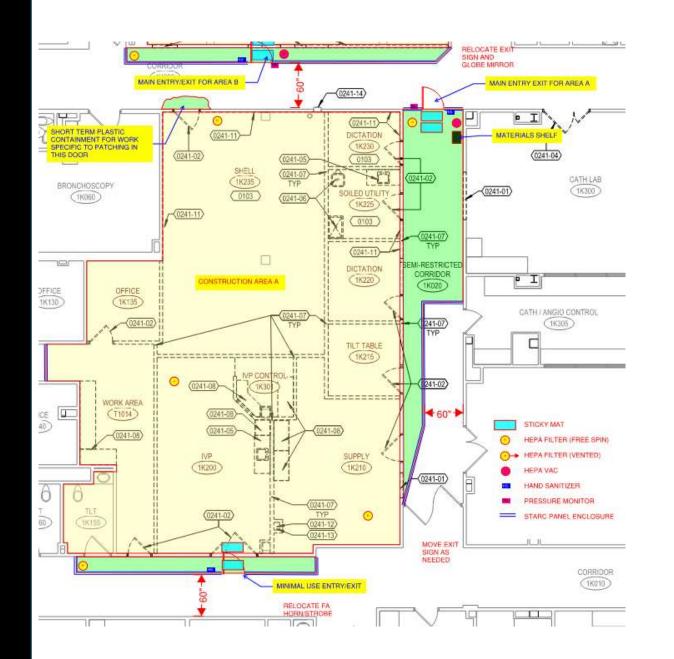


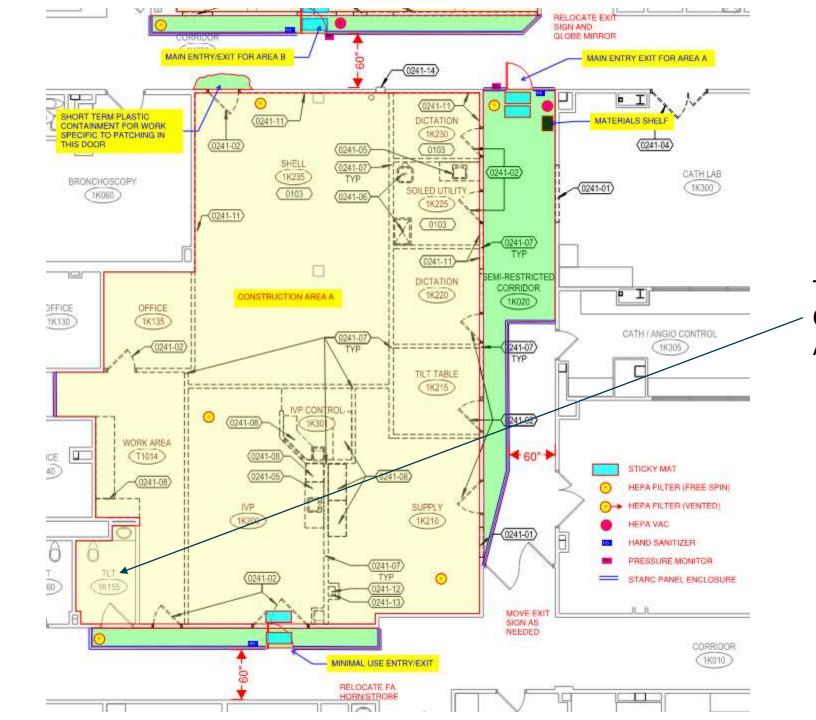
OWNER TO PROVIDE THE "RIGHT PEOPLE" IN THE ROOM



REVIEW MEPS AROUND MAIN AREA

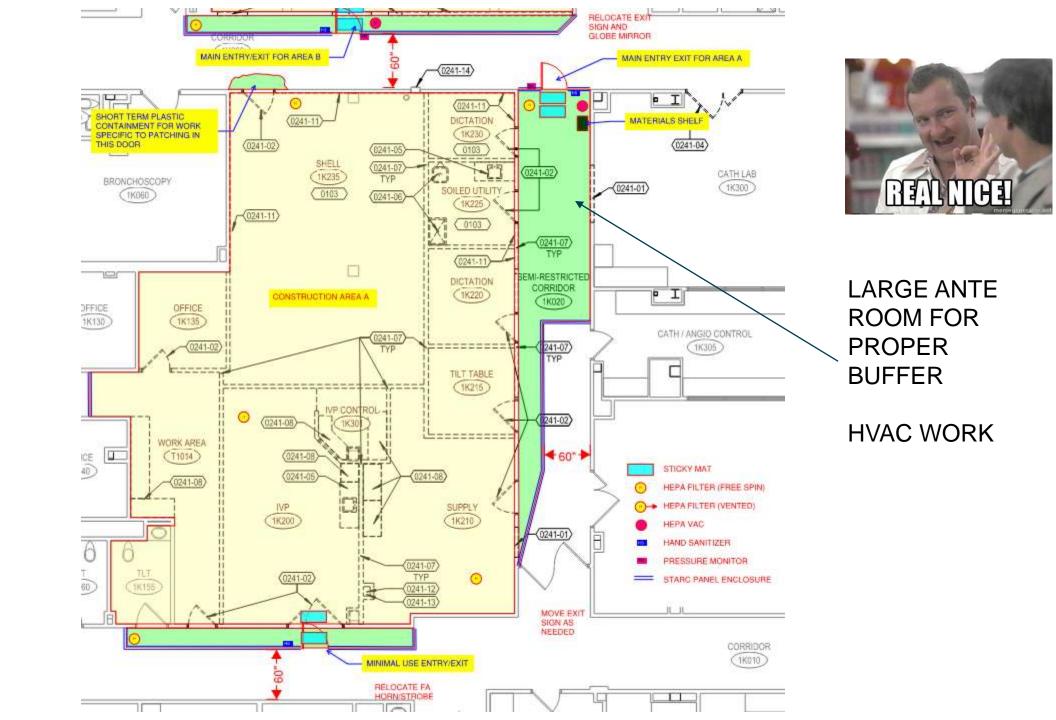


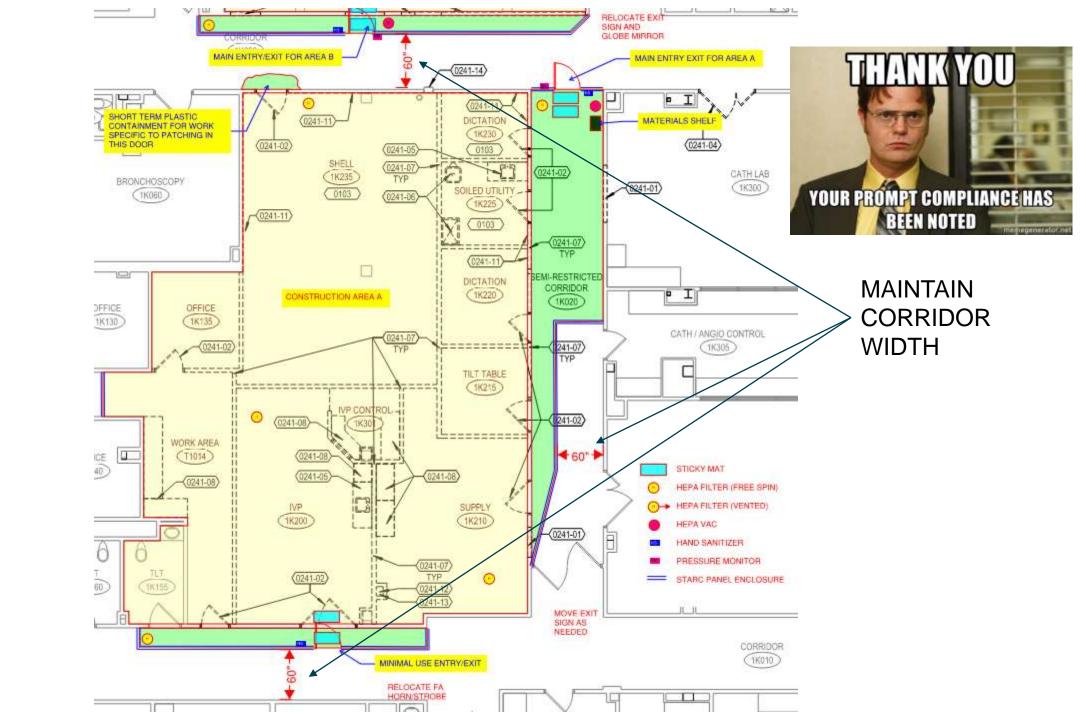






TOILET ROOM IN CONSTRUCTION AREA

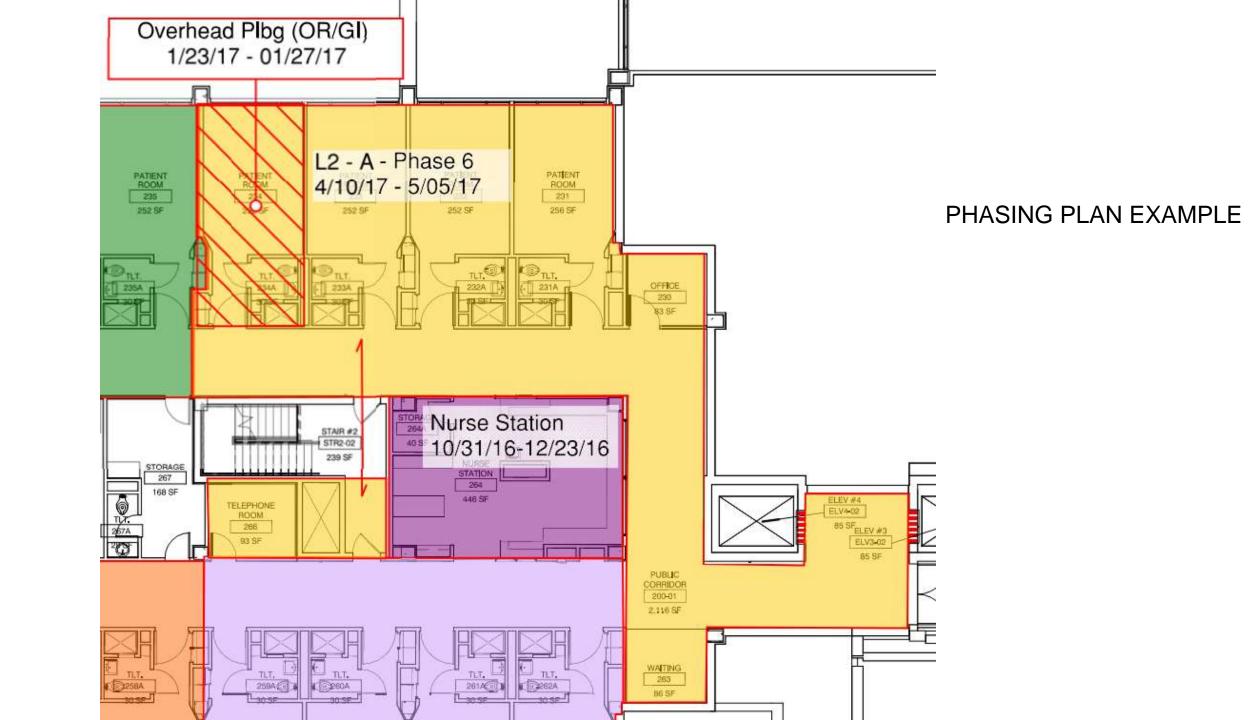


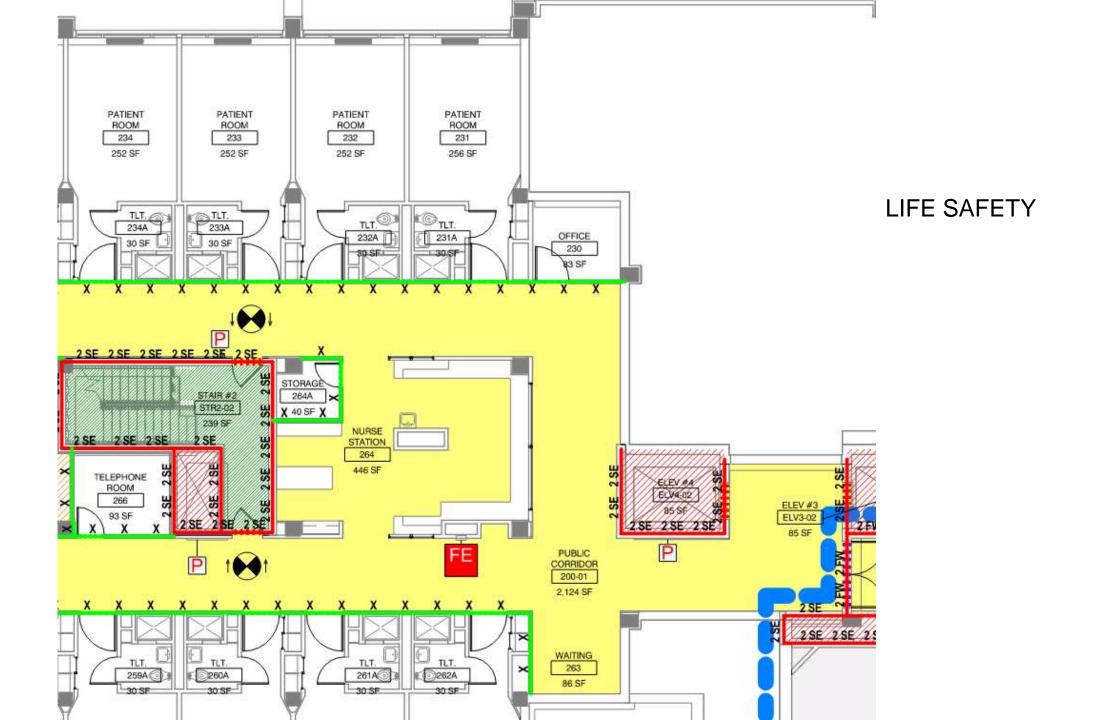


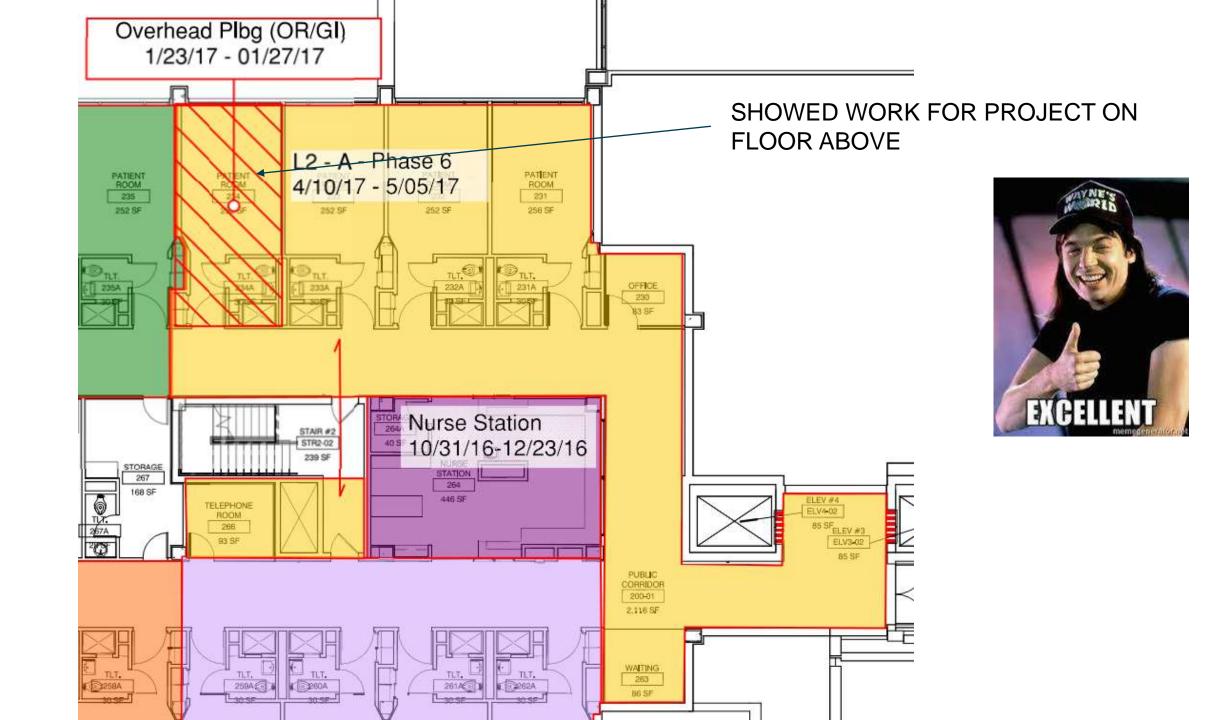
- REVIEW MEPS AROUND MAIN AREA
 - DUCT ROUTING
 - ELECTRICAL CONDUITS
 - PLUMBING
 - NEW SCOPE AND DEMO

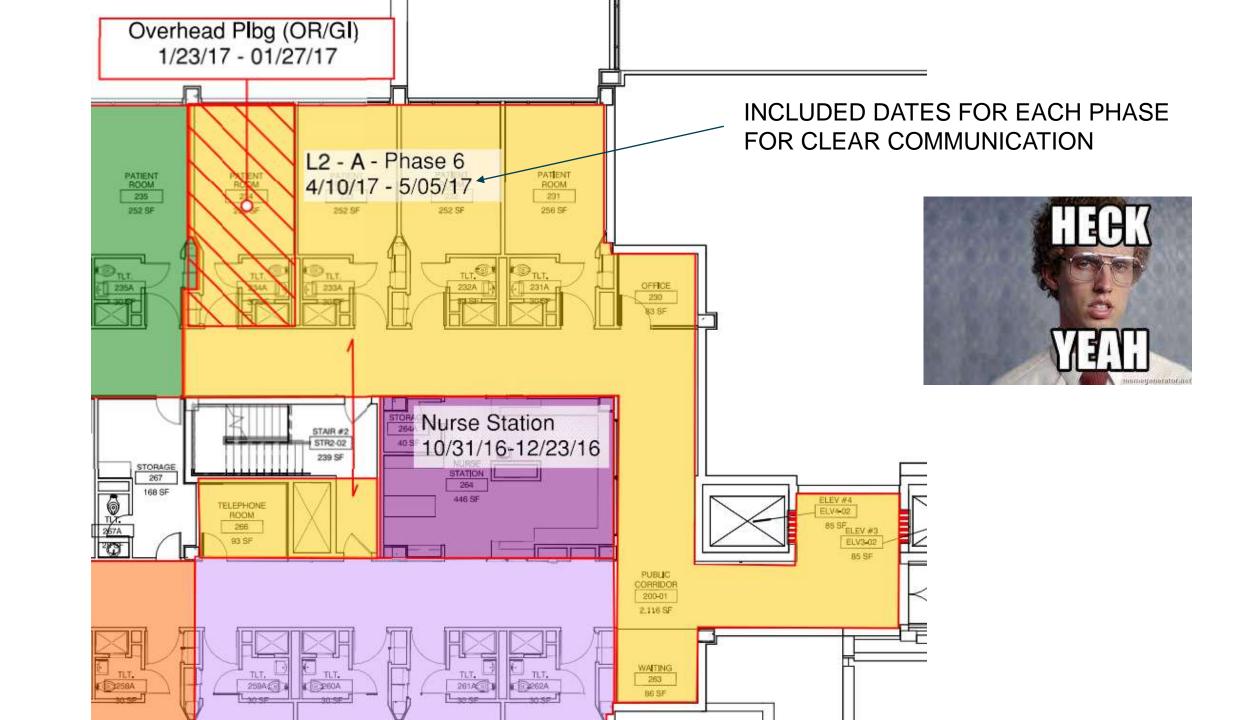
- REVIEW MEPS AROUND MAIN AREA
 - DEAD LEGS
 - DUCT CLEANING
 - SURROUNDING AREAS
 - SHUTDOWNS

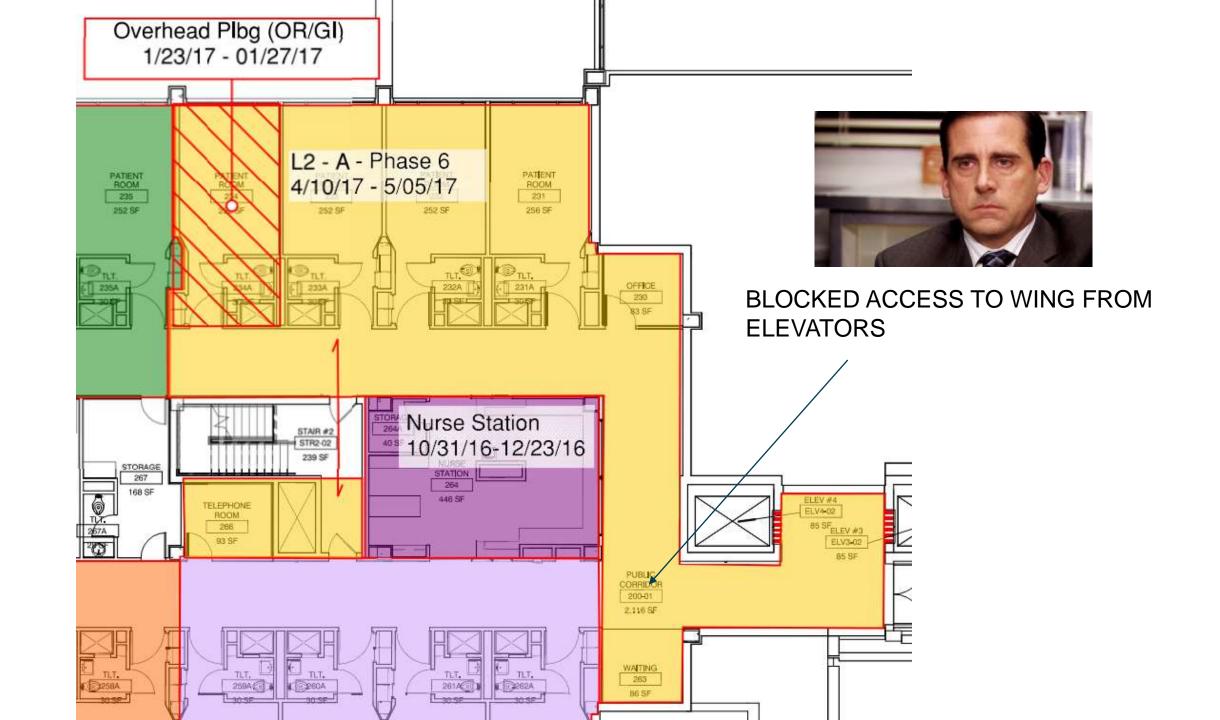
- REVIEW LIFE SAFETY
 - RATED WALLS
 - DAMPERS
 - EGRESS

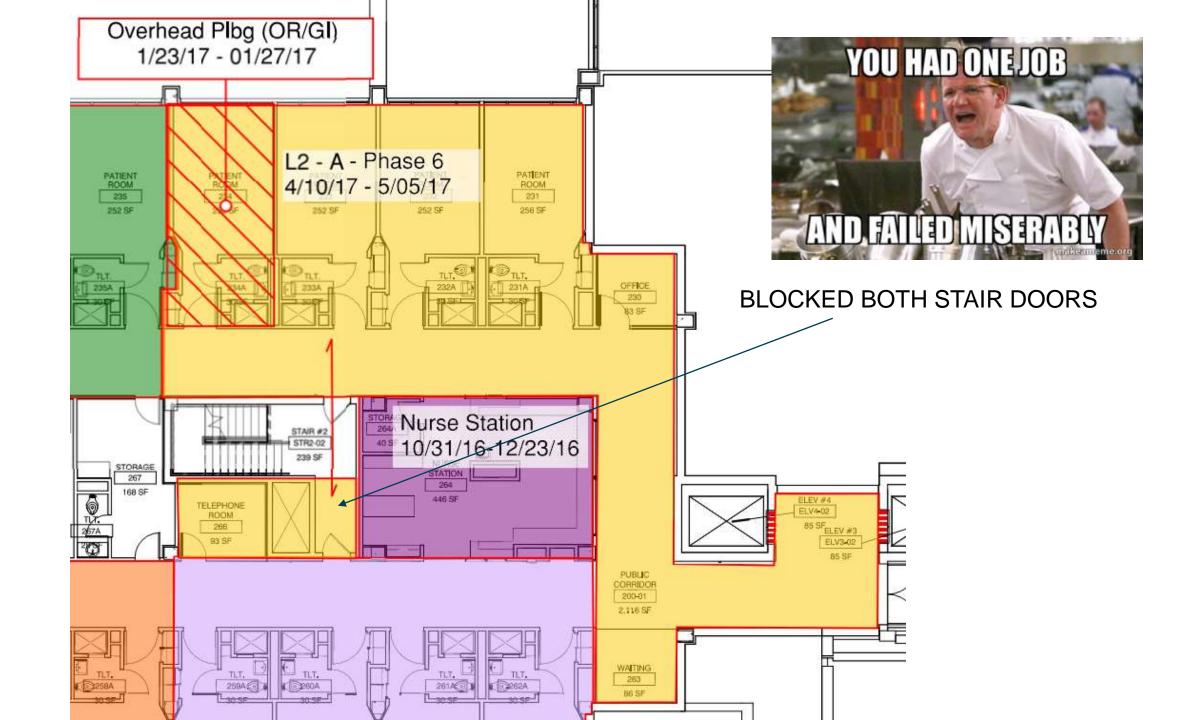












- MAINTAIN BARRIERS
 - CLEAN
 - QUIET
 - PROFESSIONAL

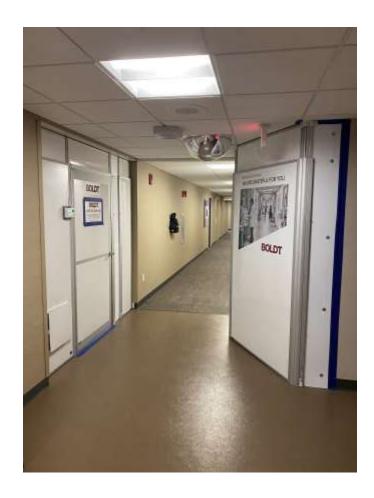
- CLEAN
 - CONTAINMENT TYPES
 - DRYWALL
 - PANELS
 - PLASTIC



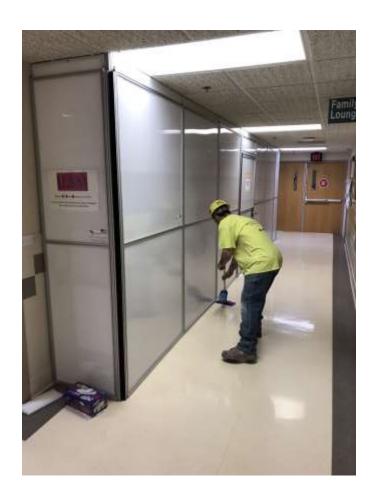




- CLEAN
 - EXAMPLE OF STARC PANELS



- CLEAN
 - EXAMPLE OF EDGEGUARD PANELS



- CLEAN
 - NEGATIVE AIR
 - ELECTRONIC MONITORING
 - LOGGING



- QUIET
 - INSULATION
 - PHASING / WORKING HOURS
 - WHITE NOISE

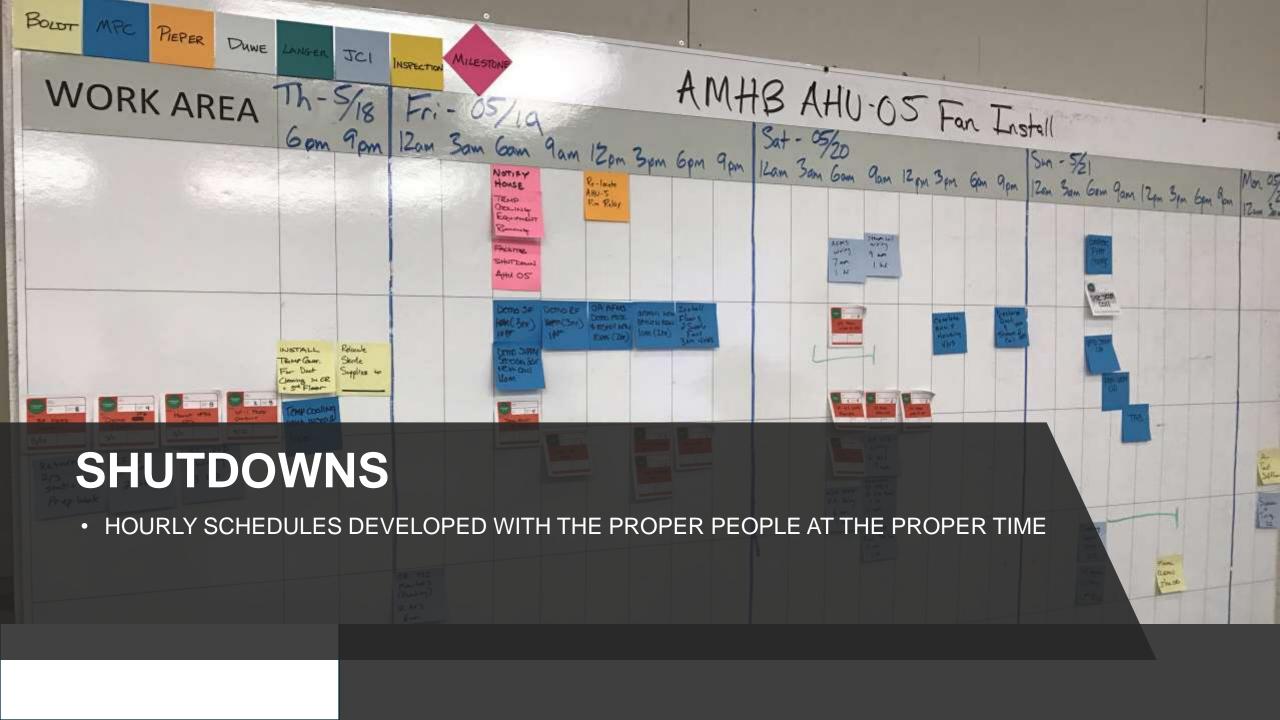
- PROFESSIONAL
 - CLEAN CLOTHES
 - PROPER LANGUAGE
 - RESPECTFUL

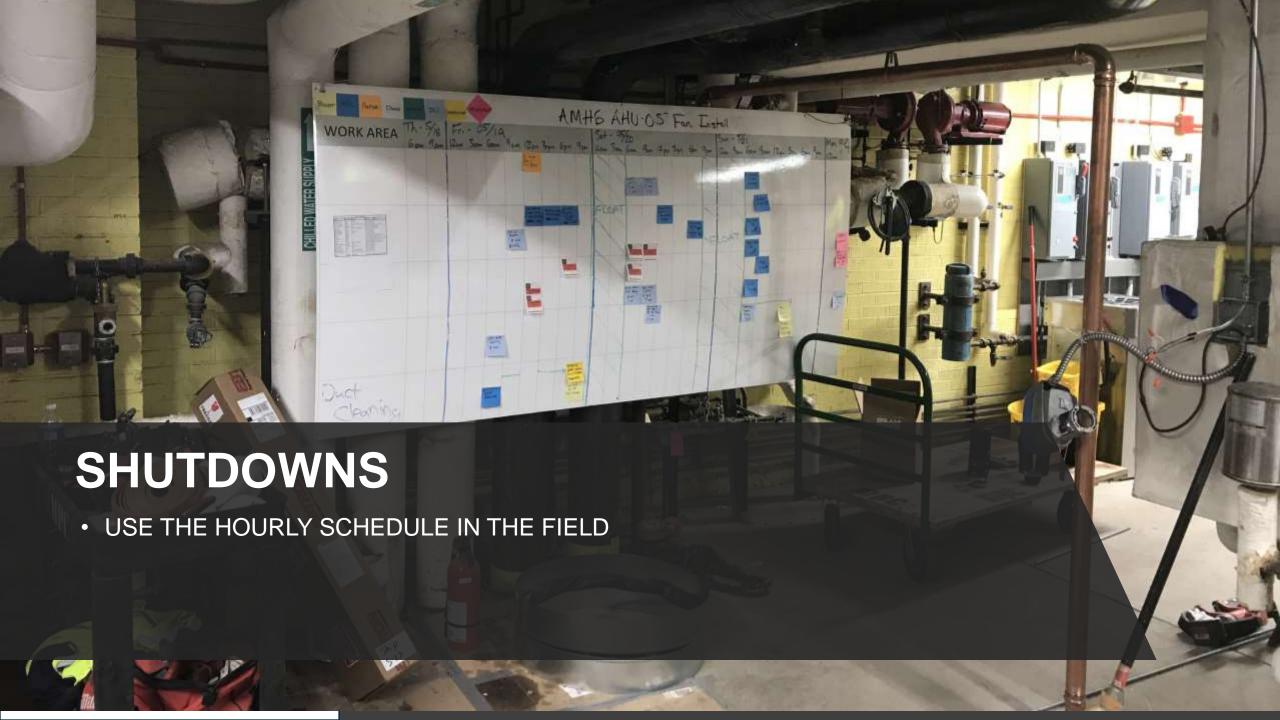
- PROFESSIONAL
 - PROVIDE PATIENTS
 AND STAFF WITH
 INFORMATION
 ABOUT WHAT IS
 GOING ON



- COORDINATION
 - **RIGHT INFORMATION**, TO THE
 - **RIGHT PEOPLE**, AT THE
 - RIGHT TIME

- PLANING AHEAD
- BRING UP SHUTDOWNS WELL IN ADVANCE
- ALWAYS COVERED IN WEEKLY MEETINGS







- ICRA AND SHUTDOWNS
 - DO WE KNOW EVERYTHING THIS WILL AFFECT?
 - HAVE MITIGATION EFFORTS BEEN PUT INTO PLACE?
 - HOW ARE WE CONTAINING HAZARDS?

- ICRA AND SHUTDOWNS
 - MOCK SHUTDOWNS
 - PROPER PEOPLE TO SURVEY AFTERWARDS
 - DID EVERYTHING START BACK UP?
 - WHO VERIFIES?
 - IS SOMEONE AVAILABLE IF SOMETHING DOESN'T START UP?



POST-CONSTRUCTION

- FINAL CLEAN TIMING
- WHEN CAN THE ICRA CONTAINMENTS COME DOWN?
- COMISSIONING / TESTING
- 3RD PARTY VENDORS

POST-CONSTRUCTION

- LESSONS LEARNED
- TURNOVER OF ALL DAILY REPORTS TO OWNER FOR RECORD
- TURNOVER OF LOGS FOR RECORD

QUESTIONS?

CONTACT INFO:

CHASE HILDEBRAND

920-412-8964

CHASE.HILDEBRAND@BOLDT.COM