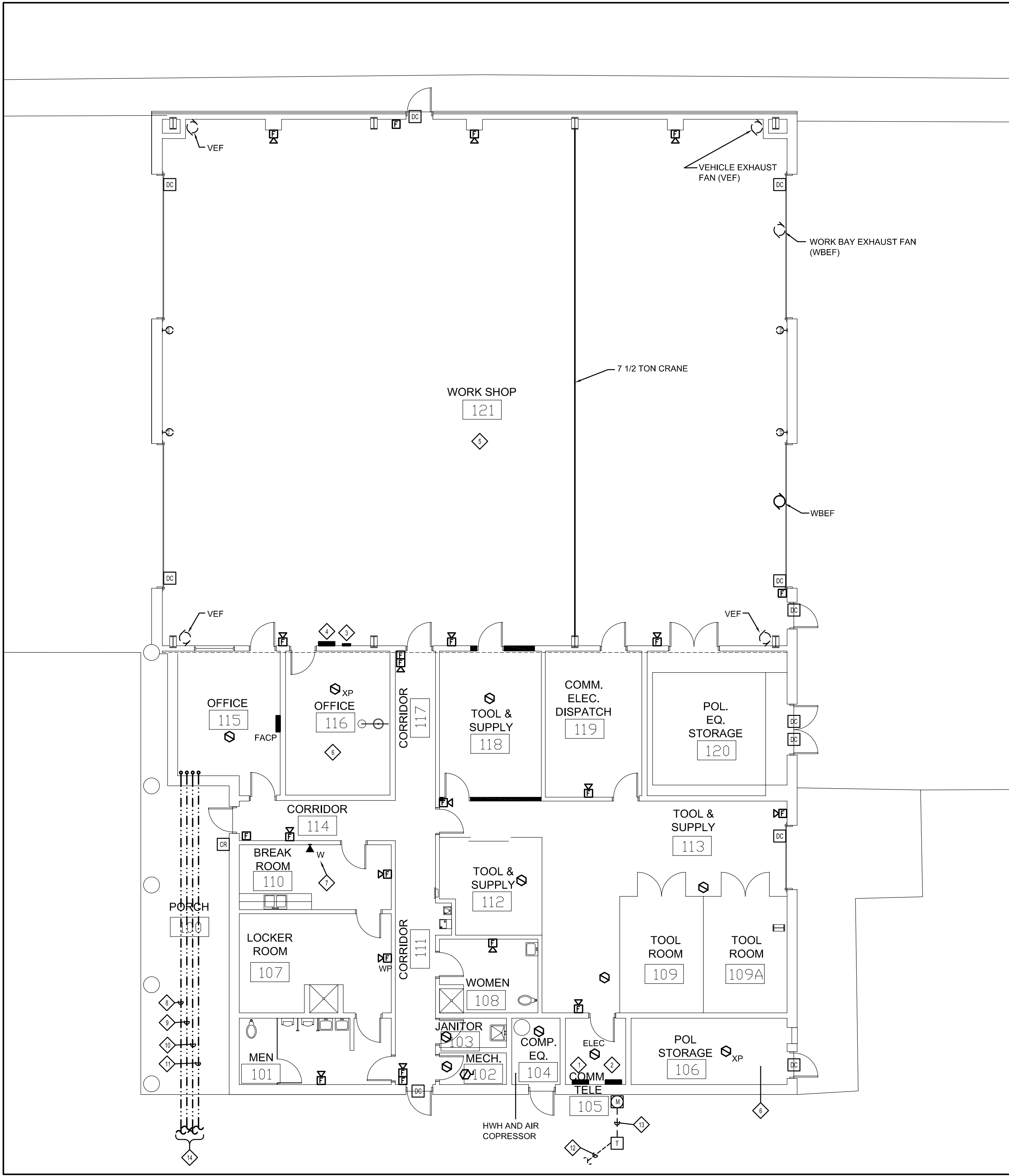
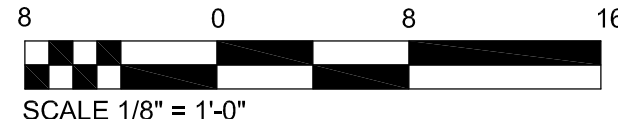
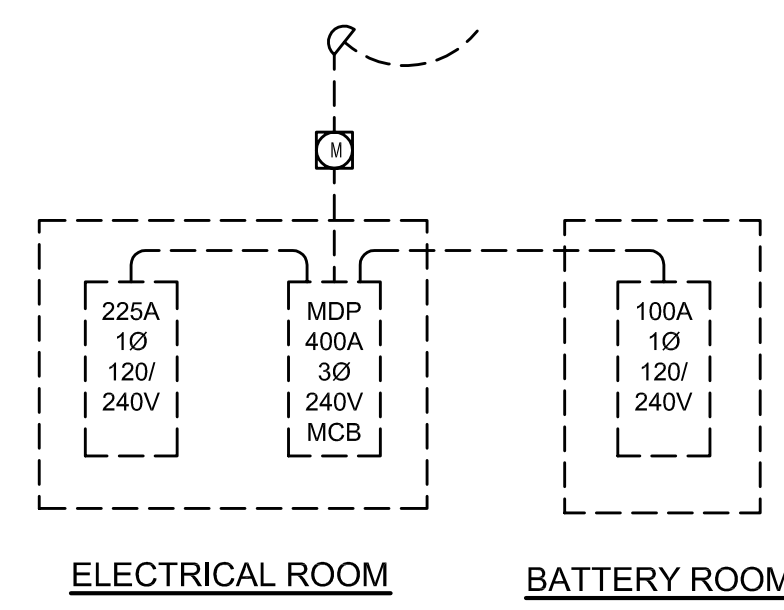
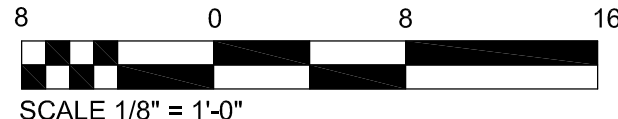


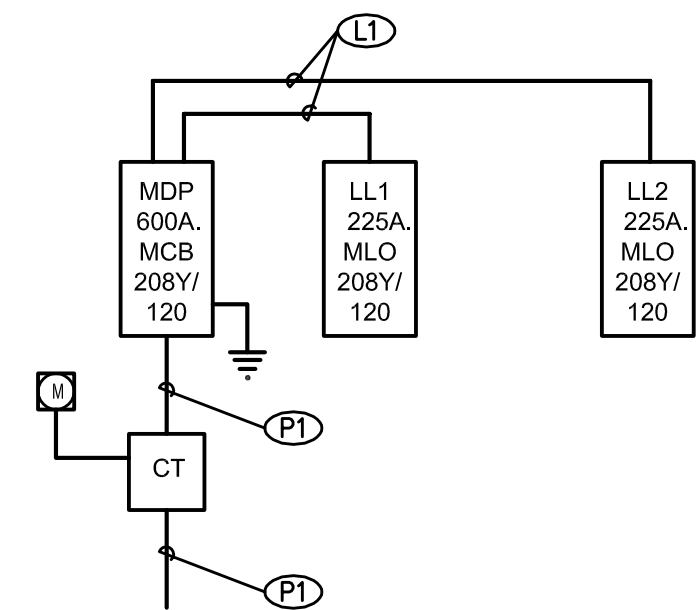
1 DEMOLITION ELECTRICAL SCOPE - OMS 12 VEHICLE MAINTENANCE FACILITY



2 NEW ELECTRICAL SCOPE - OMS 12 VEHICLE MAINTENANCE FACILITY



3 EXISTING ONE-LINE (OMS12)  
SCALE: NTS



4 REVISED ONE-LINE (OMS12)  
SCALE: NTS

GENERAL NOTES (OMS 12)

- FINAL DESIGN-BUILD CONTRACTOR SHALL VISIT THE SITE TO INVESTIGATE EXISTING CONDITIONS, SYSTEMS, CONSTRUCTION, ETC. THE FOLLOWING ITEMS SHALL BE PART OF THE CONTRACTORS SCOPE:
  - REMOVE EXISTING 240-VOLT, 3-PHASE, CLOSED DELTA SERVICE. REPLACE OVERHEAD SERVICE WITH NEW UNDERGROUND SERVICE. PROVIDE NEW 288V/208V, 3-PHASE 1500VA PAD-MOUNTED TRANSFORMER AND THE INTO NEW CAMPUS ELECTRICAL DISTRIBUTION SYSTEM. COORDINATE TRANSFORMER LOCATION WITH THE OWNER. REFERENCE INFRASTRUCTURE DRAWINGS BY OTHERS.
  - REMOVE EXISTING TELEPHONE, DATA, SECURITY, FIRE ALARM AND CATV SERVICE. REPLACE OVERHEAD SERVICE WITH UNDERGROUND SERVICE TO NEAREST COMMUNICATION HANDHOLE. PROVIDE CONDUITS AND CONDUCTORS AS NECESSARY TO THE INTO THE CAMPUS INFRASTRUCTURE. REFERENCE INFRASTRUCTURE DRAWINGS BY OTHERS.
  - REPLACE ELECTRICAL DISTRIBUTION SYSTEM IN ITS ENTIRETY INCLUDING ALL PANELBOARDS, DISCONNECT SWITCHES, TOGGLE SWITCHES, RECEPTACLES, LIGHT FIXTURES, BATTERY CHARGER, PAGING SYSTEM, TELEPHONE NOTIFICATION SYSTEM, TELEPHONE SYSTEM, FIRE ALARM SYSTEM, CONDUCTORS AND CABLES. EXISTING CONDUITS AND BOXES IN SLAB AND WALLS MAY BE REUSED AS INSTALLATION AND CONSTRUCTION ALLOWS. REPLACE ALL EXPOSED CONDUIT AND BOXES, AS WELL AS ALL CONDUIT AND BOXES IN SHEETROCK WALL OR ABOVE ACCESSIBLE CEILINGS.
  - REPLACE EXISTING LIGHT FIXTURES ONE-FOR-ONE IN KIND. FIXTURES IN HAZARDOUS / CLASSIFIED AREAS (SUCH AS THE BATTERY ROOM AND FLAMMABLE STORAGE) SHALL BE EXPLOSION PROOF, LISTED FOR THE APPROPRIATE CLASS AND DIVISION.
  - PROVIDE NEW FIRE ALARM SYSTEM AS ILLUSTRATED ON DRAWINGS.
  - PROVIDE ROUGHINS FOR SECURITY SYSTEM COMPONENTS AS ILLUSTRATED ON DRAWINGS.
  - PROVIDE ADDITIONAL DEVICES AND / OR FIXTURES AS NOTED ON DRAWINGS.
  - PROVIDE LIGHTNING PROTECTION SYSTEM FOR BUILDING.
  - COORDINATE WORK WITH OTHER TRADES, PARTICULARLY MECHANICAL CONTRACTOR. SINGLE EQUIPMENT VOLTAGES WILL CHANGE FROM 240-VOLTS TO 208-VOLTS.
- REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL ELECTRICAL SCOPE REQUIREMENTS.
- ALL NEW ELECTRICAL DEVICES, EQUIPMENT, ETC. SHALL BE MOUNTED A MINIMUM OF 48-INCHES ABOVE FINISHED FLOOR.
- ALL PANEL ENCLOSURES SHALL BE NEMA 4X, STAINLESS STEEL, MOUNTED AS HIGH AS POSSIBLE WITHOUT EXCEEDING MAXIMUM HEIGHTS ALLOWED BY CODE.

SPECIFIC NOTES (OMS 12)

- ◇ REPLACE EXISTING MAIN DISTRIBUTION PANEL WITH NEW 4-LINE TYPE, 600-AMP, 3-PHASE, 4-WIRE, 208-VOLT DISTRIBUTION PANEL WITH INTEGRAL TVSS. CONNECT ONLY 3-PHASE LOADS AND SINGLE-PHASE DISTRIBUTION PANEL FEEDERS. LABEL PANEL WITH WARNING OF HIGH "STINGER" PHASE. PROVIDE CIRCUIT BREAKERS TO MATCH EXISTING. ADD CIRCUIT BREAKERS FOR NEW MECHANICAL EQUIPMENT AS NOTED ON MECHANICAL PLAN.
- ◇ REPLACE EXISTING SINGLE PHASE PANEL WITH NEW 42-POLE, 225-AMP, THREE-PHASE, 4-WIRE, 288V/120-VOLT PANEL. PROVIDE CIRCUIT BREAKERS TO MATCH EXISTING. ADD CIRCUIT BREAKERS FOR ADDITIONAL LIGHTING AND RECEPTACLE LOADS AS NECESSARY.
- ◇ REPLACE EXISTING SINGLE PHASE PANEL WITH NEW 42-POLE, 225-AMP, THREE-PHASE, 4-WIRE, 288V/120-VOLT PANEL. PROVIDE CIRCUIT BREAKERS TO MATCH EXISTING. ADD CIRCUIT BREAKERS FOR EXISTING AND ADDITIONAL LOADS IN THE VEHICLE WORK AREA AS NECESSARY. RELOCATE PANEL TO OTHER SIDE OF WALL.
- ◇ REPLACE EXISTING DC BATTERY CHARGER IN KIND. RELOCATE TO OTHER SIDE OF WALL.
- ◇ ALL NEW 120-VOLT RECEPTACLES IN WORK BAYS SHALL BE GFY-TYPE.
- ◇ ALL NEW LIGHTS, SWITCHES, RECEPTACLES, OR OTHER ELECTRICAL DEVICE / EQUIPMENT INSTALLED IN THIS ROOM SHALL BE EXPLOSION PROOF AND LISTED BY CLASS AND DIVISION FOR THE TYPE OF AREA IN WHICH IT IS TO BE INSTALLED.
- ◇ ADD WALL PHONE.
- ◇ DIRECTIONAL BORE HDPE CONDUITS WITH PULL STRINGS A MINIMUM OF 4' BELOW GRADE FOR SECURITY SYSTEMS.
- ◇ DIRECTIONAL BORE HDPE CONDUITS WITH PULL STRINGS A MINIMUM OF 4' BELOW GRADE FOR EMS.
- ◇ DIRECTIONAL BORE HDPE CONDUITS WITH CABLES A MINIMUM OF 4' BELOW GRADE FOR FIRE ALARM SYSTEM.
- ◇ DIRECTIONAL BORE HDPE CONDUITS WITH PULL STRINGS A MINIMUM OF 4' BELOW GRADE FOR TELECOMMUNICATIONS SYSTEMS.
- ◇ DIRECTIONAL BORE (1) 5" HDPE CONDUITS WITH 25KV MEDIUM VOLTAGE CABLE A MINIMUM OF 8' BELOW GRADE FROM NEAREST MEDIUM VOLTAGE SWITCHGEAR TO OIL-FILLED TRANSFORMER. ROUTE AN ADDITIONAL 5" HDPE CONDUIT WITH PULL CORD TO MEDIUM VOLTAGE SWITCHGEAR FOR FUTURE. REFERENCE INFRASTRUCTURE DRAWINGS FOR NEAREST MEDIUM VOLTAGE SECTIONALIZING CABINET LOCATION.
- ◇ DIRECTIONAL BORE HDPE CONDUITS WITH CONDUCTORS A MINIMUM OF 8' BELOW GRADE FOR ELECTRICAL SERVICE. SEE ONE-LINE RISER DIAGRAMS FOR CONDUIT AND CONDUCTOR INFORMATION.
- ◇ TO NEAREST LOW VOLTAGE/COMMUNICATIONS SYSTEM MANHOLE. REFERENCE INFRASTRUCTURE DRAWINGS FOR NEAREST MANHOLE LOCATION.

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2/22/06	PROG. REVIEW #1
3/10/06	PROG. REVIEW #2
3/27/06	PROG. REVIEW #3
4/10/06	PROG. REVIEW #4
5/3/06	PRELIM. DESIGN

MARK DATE DESCRIPTION  
DRAWING ISSUED: 05/03/2006

NGB PROJECT NO.: 220027

PRELIMINARY DESIGN

DRAWING TITLE:  
ELECTRICAL SCOPE  
OMS 12 VEHICLE  
MAINTENANCE  
FACILITY (ALT #3)

DRAWING NUMBER:

E161  
SHEET 99 OF 106

These drawings are conceptual in nature and are not suitable for construction. It is the intent of these documents to clearly delineate the baseline minimum scale, scope and quality of the project. It is the responsibility of the design-builder that his proposal provides for a complete and functional facility responding to relative Army National Guard criteria, recognized industry standards and applicable building codes regardless of the content of these conceptual drawings. Further, it will be the responsibility of the successful design-builder and his architect of record to prepare complete construction documents responding to the fullest intent of the conceptual drawings and specifications.