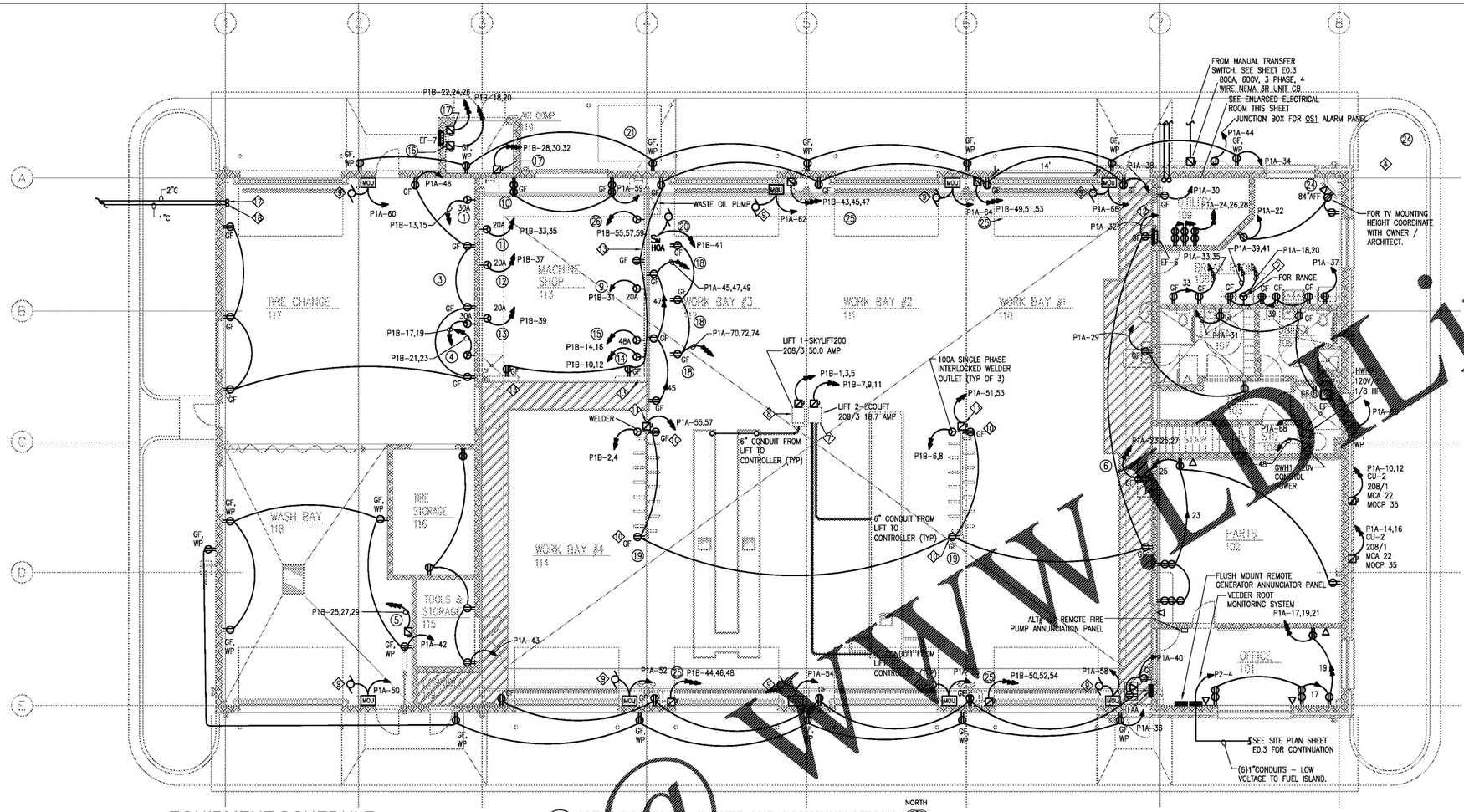
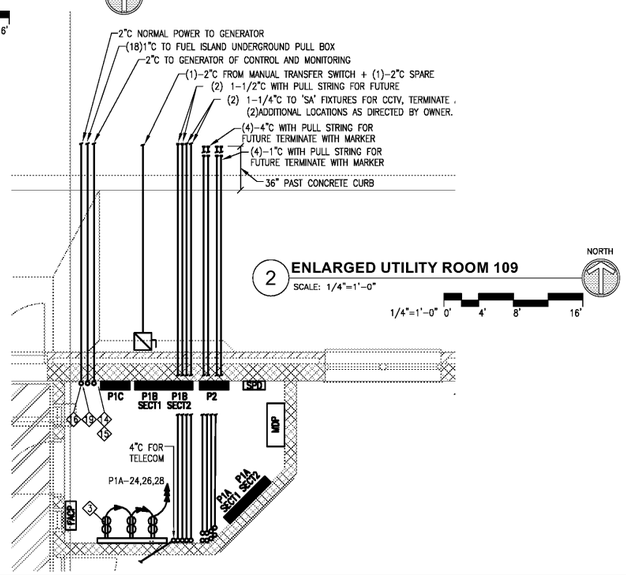


EQUIPMENT SCHEDULE

EQUIP NO.	DESCRIPTION
(1)	TIRE BALANCER
(2)	TIRE INFLATION CAGE
(3)	TIRE CHANGER
(4)	TIRE CHANGER
(5)	PRESSURE WASHER
(6)	INSPECTION MACHINE
(7)	VEHICLE LIFT – TYPE 2
(8)	VEHICLE LIFT – TYPE 1
(9)	BAND SAW
(10)	BENCH GRINDER
(11)	DRILL PRESS
(12)	HYDRAULIC BR
(13)	PARTS WASHER
(14)	WELDER
(15)	PLASMA CUTTER
(16)	AIR DRYER for AIR COMP
(17)	AIR COMPRESSOR
(18)	MOBILE COLUMN LIFTS
(19)	LUBE RACK
(20)	WASTE OIL RECEPTACLE/PUMP
(21)	WASTE OIL STORAGE TANK
(22)	EMERGENCY GENERATOR
(23)	OIL/WATER SEPARATOR
(24)	TRAINING VIDEO MONITOR
(25)	VEHICLE EXH REMOVAL FAN
(26)	VERTICAL MILLING MACHINE
(27)	TIRE STOR RACKS
(28)	TIRE STOR RACKS

1 1ST FLOOR PLAN - POWER AND COMMUNICATIONS
SCALE: 1/8"=1'-0"



2 ENLARGED UTILITY ROOM 109
SCALE: 1/4"=1'-0"

GENERAL NOTES:

A. COORDINATE DEVICE LOCATIONS WITH FINAL FURNITURE ARRANGEMENT AND ARCHITECT.

B. FIRE STOP ALL PENETRATIONS AT RATED ASSEMBLIES.

C. RECEPTACLES AT WET LOCATIONS SHALL BE GROUND FAULT PROTECTED.

D. VERIFY CONNECTION REQUIREMENTS OF ALL APPLIANCES AND EQUIPMENT WITH ARCHITECT PRIOR TO ROUGH-IN. FINAL CONNECTION TO THE EQUIPMENT SHALL BE BY THE CONTRACTOR PROVIDING THE EQUIPMENT.

E. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT AND FEEDER.

F. SEE SHEET E4.0 FOR ELECTRICAL EQUIPMENT CONNECTION DETAIL.

G. FOR INTERIOR AND EXTERIOR RECEPTACLES, DO NOT INSTALL RECEPTACLE OUTLETS BACK TO BACK, MAINTAIN MINIMUM 12 INCHES SIDE TO SIDE CLEARANCE. SEE DETAIL 2 ON E4.0.

H. ALL EXTERIOR MOUNTED RECEPTACLES AND DATA OUTLETS SHALL BE UL LISTED AS RAIN TIGHT WHILE IN USE.

I. COORDINATE LOCATION OF WATER COOLER RECEPTACLE WITH CONTRACTOR TO MINIMIZE DAMAGE FROM LEAKAGE OR SPLASHING WATER.

J. ALL RECEPTACLES IN SHOP AREAS, WORK BAY 110, 111, 112, 114 AND MACHINE SHOP 113 ARE DESIGNATED AS CLASS 1, DIVISION 2 AREAS, SHALL BE GFCI AND MOUNTED AT 40" AFF MIN. PROVIDE CONDUIT SEALS IN ACCORDANCE WITH NEC ARTICLE 511.9. THE CLARIFIED AREA EXTENT ASSOCIATED WITH THE BELOW-GRADE PITS DEPICTED WITHIN DRAWING S.1 WORK BAYS 2&3, DRAWING S4 DETAIL 4 (NEC ART 511.3.D(3))

K. SEE SHEET A3-SHOP EQUIPMENT PLAN FOR EXACT LOCATION, DESCRIPTION AND REQUIREMENTS OF ALL EQUIPMENT.

L. RECEPTACLES LOCATIONS TO BE IN A READILY ACCESSIBLE LOCATION (I.E. NOT LOCATED DIRECTLY BEHIND THE EQUIPMENT) EACH GFCI RECEPTACLE IDENTIFIED FOR INTERCONNECTION WITH APPLIANCES INCLUSIVE OF ELECTRIC DRINKING WATER FOUNTAIN AND VENDING MACHINES (SEE DRAWING A1 FOR APPLIANCE LOCATIONS).

KEY NOTES:

1. CCTV HEAD END BY OWNER
2. PROVIDE 14-50R RANGE RECEPTACLE AND MATCHING PIGTAIL. COORDINATE WITH ACTUAL RANGE PROVIDER (MAYBE GAS RANGE)
3. PROVIDE INTERSYSTEM / COMMUNICATIONS GROUNDING BAR CENTERED ON WALL IN UTILITY 109. FROM EACH GROUNDING BAR, PROVIDE #6 AWG - 1"C. AND BOND TO MAIN BUILDING SERVICE GROUND. GROUNDING BAR SHALL BE AS MANUFACTURED BY LEGRAND MODEL OR-GB2X12TC6. OR EQUAL. FINAL APPROVAL OF GROUNDING BAR TYPE AS DIRECTED BY THE OWNER'S IT DEPARTMENT AND PERSONNEL. PROVIDE ON SHEET OF 4'-0" WIDE BY 8'-0" HIGH FIRE RETARDANT PLYWOOD. DO NOT PAINT OVER THE FIRE RETARDANT LABELS. LEAVE, AT LEAST, ONE LABEL VISIBLE TO THE INSPECTOR.
4. COORDINATE POWER REQUIREMENTS WITH P.C. FOR ALARMS AT OIL/WATER SEPARATOR.
5. CONDUITS FOR SECURITY AND ANTENNA SERVICES. SEE SITE PLAN FOR CONTINUATION.
6. (3) 4" CONDUITS FOR COMMUNICATIONS. SEE SITE PLAN FOR CONTINUATION.
7. MOUNT AT 54" AFF FOR TELEPHONE.
8. PROVIDE CONNECTION COMPATIBLE WITH ALARM PANEL. COORDINATE EXACT REQUIREMENTS WITH P.C.
9. GARAGE DOOR OPENER, COORDINATE FINAL LOCATION WITH DOOR VENDOR AND G.C.
10. MOUNT OUTLET TO LUBE RACK, COORDINATE MOUNTING LOCATION WITH OWNER AND LUBE RACK VENDER.
11. POWER TO LUBE RACK ELECTRICAL REELS "ER," MOUNT DISCONNECT TO LUBE RACK, COORDINATE MOUNTING LOCATION WITH OWNER AND LUBE RACK VENDOR.
12. G.C. SHALL PROVIDE PANIC HARDWARE ON UTILITY ROOM DOOR.
13. LOW WALL, NO CONDUIT SHALL EXIT TOP OF THE WALL, ROUTE TO FULL HEIGHT WALL.
14. ROUTE 1"C'S TO PANEL P2, SEE PANELBOARD SCHEDULE.
15. ALL FUEL ISLAND POWER SHALL BE CONNECTED TO EMERGENCY POWER OFF SWITCH.
16. CONNECT TO CIRCUIT P1C-37,39,41.
17. ROUTE 2" CONDUIT OVERHEAD TO MDP IN ALT #G1
18. ROUTE 1" CONDUIT OVERHEAD TO ANN. PANEL AND 1"C TO FIRE ALARM PANEL IN ALT #G1.
19. 2"C FOR GENERATOR CONTROL AND MONITORING

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BIDDING DOCUMENTS
SEALED 08/30/2017

DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS, PLLC
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919.755.1199 FAX 919.755.0008
PROJECT MANAGEMENT CONSTRUCTION MANAGEMENT

CONSULTANT:
DEVITA
ATLANTA | CHARLOTTE | GREENSBORO | RALEIGH
DEVITA ENGINEERING, PLLC
NC FIRM LICENSE # C-0933

DRAWING TITLE / DESCRIPTION:
ELECTRICAL FIRST FLOOR PLAN - POWER

PROJECT TITLE:
LUMBERTON EQUIPMENT SHOP
NCDOT HIGHWAY DIVISION 6
872 NC 711 HIGHWAY
LUMBERTON, NORTH CAROLINA 28360

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER: CO.# 78 SITE.# 06 BLDG.# 00

REVISIONS NO.	DATE

DATE ISSUED: 12/15/2017
DRAWN BY: MKT
CHECKED BY: MWH
SHEET NO.
E1.0