GENERAL ELECTRICAL NOTES:

GENERAL DRAWING DESIGNATIONS: ALL NUMBERS SHOWN ON THE ELECTRICAL DRAWINGS OR OCCUR IN THE TEXT SHALL BE CHANGED TO REFLECT THE USE OF THIS CONTRACT DOCUMENT.

CONSTRUCTION NOTES AND CONVENTIONS WITH ALL TRADES IN THE PROJECT:

1. DRAWINGS SHOULD BE A DECENT DETAIL OF THE ITEMS SHOWN ON THE CONTRACT DOCUMENTS TO ENSURE THAT EACH ITEM SHALL BE ACCURATE AND COMPLETE.

2. THE PROGRESS RECORDS SHOWN ON ALL TRADES AND THE CONTRACT DOCUMENTS SHALL BE KEPT IN SEGMENTED REGISTERS OF ALL DRAWINGS AND SPELLING OF ITEMS SHOWN ON THE CONTRACT DOCUMENTS.


5. ALL TRADES SHALL BE ADVISED OF THE WORK REQUIREMENTS AND SHALL BE ADVISED OF THE IMPORTANT OF THE WORK.

6. ALL TRADES SHALL BE ADVISED OF THE IMPORTANT OF THE WORK AND SHALL BE ADVISED OF THE WORK REQUIREMENTS.

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ELECTRICAL SPECIFICATIONS CONTINUED:

H. INTERFENCES
1. BEFORE THE INSTALLATION OF ANY TYPE-CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY ASSESS THAT IT DOES NOT INTERFERE WITH THE INSTALLATION OF DUCTWORK, AIR-CONDITIONING, PIPING OR OTHER CONSTRUCTION AS SHOWN ON THE DRAWING. SHOULD ANY INTERFENCES OCCUR, THE ELECTRICAL CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR CORRECTING THE CONDITIONS CAUSED BY THE UNSTATED INTERFENCES UPON THE CONSTRUCTION SITE BEFORE SUCH CONDITIONS ARE MADE.

I. QUALITY ASSURANCE
1. ALL MATERIALS AND EQUIPMENT MUST BE OF THE TYPE AND QUALITY SPECIFIED. VARIATION IN MATERIAL AND EQUIPMENT, ARRAYS OR OTHER PERFORMANCE, MUST BE COMMUNICATED IN WRITING BEFORE OR IMMEDIATELY AFTER INSTALLATION. THE MATERIAL AND EQUIPMENT SHALL BE ENSURED TO MEET THE REQUIREMENTS OF THE DRAWINGS AS SHOWN, AND ALL MATERIALS AND EQUIPMENT SHALL BE OF GOOD QUALITY AND EQUALLY UNIFORM. NO MATERIALS OR EQUIPMENT NOTED ON THE DRAWINGS SHALL BE INSTALLED AT THE DISCRETION OF THE ELECTRICAL CONTRACTOR UNLESS SPECIFIED.

K. MOUNTING ACCESSORIES
1. THE ELECTRICAL CONTRACTOR SHALL HANG AND INSTALL ALL MOUNTING BRACKETS, HOLES, AND SUPPORTS, HANDLES, MOUNTING ACCESSORIES, MOUNTING HOLES, MOUNTING HDC. UNLESS NOTED ON THE DRAWINGS, AND ALL MOUNTING ACCESSORIES, WHETHER SPECIFIED OR UNSPECIFIED.

L. EXECUTION
1. THE ELECTRICAL WORK FOR CONSTRUCTION PURPOSES SHALL CONFORM TO ALL RULES, REGULATIONS, AND STANDARDS THAT ARE APPLICABLE IN THE AREA AND SPECIFIED IN THE CONTRACT DRAWINGS.

M. MATERIALS AND QUALITY OF WORK
1. ALL MOUNTING ACCESSORIES MUST BE INSTALLED IN A PROFESSIONAL AND PROFESSIONAL MANNER, BY MEANS OF HOLES IN THE DESIGNERS, WHERE SPECIFIED.

R. OUTLET BOXES
1. USE STEEL BOXES, 20X20X20 SIZE OF COPPER, FOR CONNECTORS, INTERIOR WORK. USE 20X22X20 SIZE OF COPPER, FOR EXPOSED INTERIOR WORK, AND FOR EXPOSED CONDUIT BOXES LOCATED IN THE WORK AREA. ALL CONDUIT BOXES SHOULD BE 설치ERED BY DISCONNECTING THE POWER SOURCE OR USING SAFETY DEVICES SUCH AS OVERCURRENT DEVICES.
2. ALL BOXES SHALL BE INSTALLED IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC) INSTALLATION REQUIREMENTS.
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DEMOlITION KEYNOTES

1. REMOVE EXISTING ELECTRICAL CONNECTION TO LOCAL FAN ASSOCIATED WITH EXHAUST ARM associated WITH EXHAUST SYSTEM. MAKE A MINIMUM OF 9 EXISTING CIRCUITS TO SERVE NEW LIGHTING. TO VERIFY NEW LIGHTING IS LESS THAN 800W PER BAY FOR THIS CONFIGURATION. MAINTAIN A MINIMUM OF 9 EXISTING CIRCUITS TO SERVE NEW LIGHTING. TO VERIFY NEW LIGHTING IS LESS THAN 800W PER BAY FOR THIS CONFIGURATION.

2. DEMOLITION SHALL BE DEPLETED BACK TO PANEL, TURNED OFF, AND CIRCUIT BREAKER LABELED SPARE. WHERE THE LIGHT WATTAGE IS GREATER THAN 800W, A DEDICATED DEMOLITION CIRCUIT SHALL BE UTILIZED FOR EACH LIGHT.
1. PROVIDE POWER CONNECTION TO ARM LIGHTING. ARM LIGHT IS INTEGRAL TO DUST COLLECTOR ARM FURNISHED BY MECHANICAL CONTRACTOR. EC TO PROVIDE INSTALLATION. REUSE EXISTING CIRCUITS SAVED DURING DEMOLITION, SPLICE AND EXTEND AS NECESSARY. (1) CIRCUIT SHALL SERVE 2 LIGHT FIXTURES AS NOTED ON THE DEMOLITION PLAN. PROVIDE NEW SWITCH, WIRE, AND CONDUIT TO CONTROL LIGHT FROM WALL, COORDINATE WITH EXISTING SUPPORT ALREADY MOUNTED IN THIS LOCATION.

2. PROVIDE CONNECTION TO NEW DUST COLLECTOR LOCATED EXTERIOR OF BUILDING. VFD AND DISCONNECT FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY EC. PROVIDE NEW UNISTRUT FRAME ATTACHED TO TABLE TO MOUNT SWITCH. POWER FEED TO EXTEND DOWN FROM CEILING. REFER TO ADJACENT UNISTRUT MOUNTING ON EXISTING TABLE.

3. PROVIDE POWER CONNECTION TO ARM LIGHTING. ARM LIGHT IS INTEGRAL TO DUST COLLECTOR ARM FURNISHED BY MECHANICAL CONTRACTOR. EC TO PROVIDE INSTALLATION. REUSE EXISTING CIRCUIT SAVED DURING DEMOLITION, SPLICE AND EXTEND AS NECESSARY TO NEW LOCATION. PROVIDE NEW UNISTRUT SUPPORT MOUNTED ON TABLE TO THE AREA POWER FEED TO EXTEND DOWN FROM CEILING, COORDINATE WITH EXISTING SUPPORT ALREADY MOUNTED IN THIS LOCATION.

4. PROVIDE POWER CONNECTION TO ARM LIGHTING. ARM LIGHT IS INTEGRAL TO DUST COLLECTOR ARM FURNISHED BY MECHANICAL CONTRACTOR. EC TO PROVIDE INSTALLATION. REUSE EXISTING CIRCUIT IN EXISTING UNISTRUT MOUNTING ON TABLE IN THIS AREA. ELECTRICAL PANELS MOUNTED ON CEILING, COORDINATE WITH EXISTING SUPPORT ALREADY MOUNTED IN THIS LOCATION.

5. PROVIDE POWER CONNECTION TO ARM LIGHTING. ARM LIGHT IS INTEGRAL TO DUST COLLECTOR ARM FURNISHED BY MECHANICAL CONTRACTOR. EC TO PROVIDE INSTALLATION. REUSE EXISTING CIRCUIT SAVED DURING DEMOLITION, SPLICE AND EXTEND AS NECESSARY TO NEW LOCATION. PROVIDE NEW UNISTRUT SUPPORT MOUNTED ON TABLE TO THE AREA. POWER FEED TO EXTEND DOWN FROM CEILING, COORDINATE WITH EXISTING SUPPORT ALREADY MOUNTED IN THIS LOCATION.

6. PROVIDE POWER CONNECTION TO ARM LIGHTING. ARM LIGHT IS INTEGRAL TO DUST COLLECTOR ARM FURNISHED BY MECHANICAL CONTRACTOR. EC TO PROVIDE INSTALLATION. REUSE EXISTING CIRCUIT SAVED DURING DEMOLITION, SPLICE AND EXTEND AS NECESSARY TO NEW LOCATION. PROVIDE NEW UNISTRUT SUPPORT MOUNTED ON TABLE TO THE AREA. ELECTRICAL PANEL MOUNTED ON CEILING, COORDINATE WITH EXISTING SUPPORT ALREADY MOUNTED IN THIS LOCATION.

7. PROVIDE POWER FEED TO NEW DUST COLLECTOR VIA NEW 100A-3P CIRCUIT IN MAIN SWITCHBOARD #2 LOCATED ON 2ND FLOOR ELECTRICAL MEZZANINE. CIRCUIT SHALL BE (3) #1 & (1) #8G IN 1 1/2" CONDUIT. ROUTE POWER FEED OVERHEAD IN ADJACENT HIGH-BAY SPACE.
A.1. MECHANICAL WORK:  ALL WORK REQUIRED FOR INSTALLATION INCLUDING INSTALLATION OF NEW MANIFOLD WELD EXHAUST DUCT SYSTEM MODEL ERGO-L, NEDERMAN INC., PLYMOVENT INC., LINCOLN ELECTRIC.

A.2. AIR BALANCING -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.

A.3. INSTALLATION OF NEW MANIFOLD WELD EXHAUST DUCT SYSTEM MODEL ERGO-L, NEDERMAN INC., PLYMOVENT INC., LINCOLN ELECTRIC.

A.4. INSTALLATION OF NEW MANIFOLD WELD EXHAUST DUCT SYSTEM MODEL ERGO-L, NEDERMAN INC., PLYMOVENT INC., LINCOLN ELECTRIC.

A.5. INSTALLATION OF NEW MANIFOLD WELD EXHAUST DUCT SYSTEM MODEL ERGO-L, NEDERMAN INC., PLYMOVENT INC., LINCOLN ELECTRIC.

B. PERFORMANCE OF WORK -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.

C. INSTALLATION OF NEW MANIFOLD WELD EXHAUST DUCT SYSTEM MODEL ERGO-L, NEDERMAN INC., PLYMOVENT INC., LINCOLN ELECTRIC.

D. PERFORMANCE OF WORK -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.

E. PERFORMANCE OF WORK -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.

F. PERFORMANCE OF WORK -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.

G. PERFORMANCE OF WORK -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.

H. PERFORMANCE OF WORK -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.

I. PERFORMANCE OF WORK -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.

J. PERFORMANCE OF WORK -- ALL SQUARE ELBOWS SHALL BE FITTED WITH DOUBLE WALL TURNING DEVICES OR HAVE CLAMP RINGS.
DEMOLITION DRAWING KEY NOTES:

1. REMOVE EXISTING WELDING EXHAUST ARM AND ASSOCIATED FILTRATION UNIT LOCATED ABOVE WELDING BOOTH.

2. REMOVE DUCTWORK TO ACCOMMODATE NEW WELDING EXHAUST DUCTWORK FOR NEW AREA.
1. Line supply duct with 2" thick acoustical liner.
2. Cut opening into existing concrete panel and route duct through wall, install sleeve, flush and counter all around openings and seal water tight.
3. On-off switch location for central dust collection system.
4. Connect 1" compressed air line to dust collector to exhaust 1-1/2" compressed air line. Run 1" line to dust collector in 45° at collector.
5. Transition from 40/36 to 30/59 inch inlet. Transition from 44/24 outlet (remove hood) to 40/36 duct.
6. Install (3) pipe bollards per detail on M-3.0. 6'-0" spacing on center. Keep clear from dust collector filter and control panel access.
7. Insulate exterior exhaust air ductwork with 2" mineral fiber board with Alumaguard jacketing or approved equal.
EX. CONC. WALL PANEL
CMU INFILL DOOR BEYOND
NEW EXISTING GRADE / PAVING

46/36 EA
26" Ø EA
SG-1

DUCT SUPPORT STAND, SEE DETAIL
NEW 5'X10' CONC. PAD, SEE DETAIL

DC
1
20 GALLON COLLECTION DRUM
1" CA CONNECTED TO COLLECTOR.
PROVIDE DIRT LEG, BALL VALVE AND UNION.

DRAWING KEY NOTES:
1. SUPPORT DUCT EITHER IN KNEE BRACE SUPPORTS FROM WALL OR HANG FROM ROOF STEEL ABOVE.
2. OFFSET EXHAUST DUCT DEPENDING TO AVOID BUSS DUCT AND KEEP EXHAUST AWAY FROM BLOCKING ANY EXHAUST, BREAKERS AND BUSS DUCT.

COMMUNITY COLLEGE OF ALLEGHENY COUNTY
800 Allegheny Avenue
Pittsburgh, Pennsylvania 15233

WEST HILLS CENTER
1000 McKee Road, Oakdale, PA 15071
Replace Welding Lab Exhaust System
Sections & Elevations

PROFESSIONAL
DAVID C. PRICE
No. PE081572
ENGINEER
REGISTERED
A1F081572
Replace Welding Lab Exhaust System

1000 McKee Road, Oakdale, PA 15071

DAVID C. PRICE
CWW
PROFESSIONAL
REGISTERED
Pittsburgh, Pennsylvania 15233

800 Allegheny Avenue

NOTE:
1. SEE SPECIFICATIONS FOR AIRS.
2. HANG BAG TO WALL
   AT SAME LOCATION AS WELD ARMS.
3. NO SET LOCATIONS. THIS AIR IS STRAIGHT OUT ONLY AT TRANSITION. DO NOT LOCATE TAKE-OFFS OR TERMINAL DUCTS AT TRANSITION. SEE CHEMICAL EXHAUST SYSTEM.

4. EA-3 - RTD to EA-12 WELD ARM

5. EA-1 THROUGH 18 LIGHTS

6. M-3.0 VFD

7. EA-12 LIGHTS

8. EA-10 LIGHTS

9. EA-11 LIGHTS

10. EA-9 LIGHTS

11. EA-8 LIGHTS

12. EA-7 LIGHTS

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