CONTACT INFORMATION

OWNER

OWNER: EAST CENTRAL COLLEGE
REPRESENTATIVE: JON BAUER
ADDRESS: 1964 PRAIRIE DELL ROAD
PHONE: (636) (636) 583-5195

WATER / SEWER

OWNER: CITY OF UNION
REPRESENTATIVE: JEFF VOSS
ADDRESS: WEST PARK RD. UNION MO. 63084
PHONE: (636) 583-4011

ELECTRIC

OWNER: AMEREN U.E.
REPRESENTATIVE: JEFF BROWN
ADDRESS: 500 E. INDEPENDENCE DRIVE UNION, MO. 63084
PHONE: (636) 583-7173

GAS

OWNER: LACLEDE GAS CO.
REPRESENTATIVE: PATRICK MCMILLAN
ADDRESS: 6 PROGRESS DRIVE, UNION, MO 63084
PHONE: (314) 575-4835

TELEPHONE

OWNER: AT&T
REPRESENTATIVE: TODD YENZER
ADDRESS: 507 EAST MAIN ST. UNION, MO 63084
PHONE: (314) 439-4140

ARCHITECTURAL / CIVIL

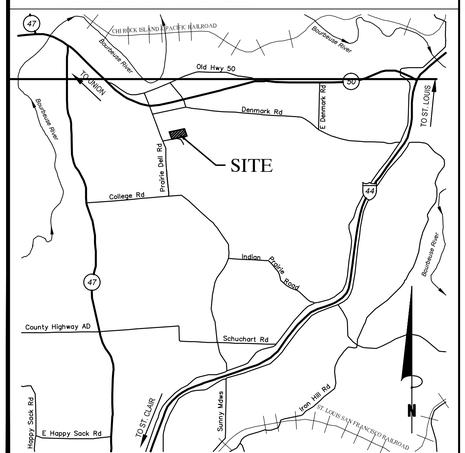
COCHRAN

530A E. Independence Drive
Union, Missouri 63084
(636) 584-0540
(636) 584-0512 FAX
Contact: Joe McGowan

STRUCTURAL / MECHANICAL / ELECTRICAL / PLUMBING

AEDIFICA CASE ENGINEERING

796 Merus CT
Fenton, Missouri 63026
(636) 349-1600
Contact: John Virtudazo



VICINITY MAP
NO SCALE

EAST CENTRAL COLLEGE

CENTER FOR ADVANCED MANUFACTURING AND WORKFORCE TRAINING
WELDING GAS PIPING BID PACKAGE
42 Prairie Dell Plaza Drive
Union, Missouri 63084

DRAWING INDEX

ARCHITECTURAL

A1.7 EQUIPMENT PLAN - HVAC & WELDING

PLUMBING

P1.0 PLUMBING SCHEDULES
P1.5 COMPRESSED AIR AND GAS PIPING PLAN

ELECTRICAL

E5.2 WELDING LAB POWER PLAN (FOR REFERENCE ONLY)

BUILDING DATA

Building Code:	2009 IBC as adopted by the City of Union, Missouri 2009 IBC as adopted by the Union Fire Protection District
Use Group:	E Educational B Business S Storage Non Separated
Construction Type:	IIB
Allowable Height (Per Table 503):	Two (2) Stories / 55 Feet± 20 foot and 1 story increase for sprinklers. Total allowable height Three (3) Stories / 75 feet
Actual Height:	One (1) Story / 27 Feet
Allowable Area (Per Table 503):	14,500 SF 300% increase allowed for sprinklers. (3 x 14,500=43,500) Perimeter increase allowed for sprinklers. ((1-.75)*30/30 = 10,875) Total allowable building area: 68,875 SF
Actual Area:	Total Area: 28,396 SF
Interior Fire Rated Components:	Section 603: Floor, wall and ceiling finish combustible materials are as required by sections 803 through 808. Section 803: Per table 803.9 for use Group E the following are class of finish material requirements: - Rooms and enclosed spaces: Class C - Corridors, exit passageways: Class B - Class B: Flame Spread Index 26-75 Smoke developed index 0-450 - Class C: Flame spread index 76-200 Smoke developed index 0-450
Fire Resistance Ratings For Building Elements: (Per 508.4)	0 hours for IIB construction 0 hours for exterior walls, (all exterior walls are greater than 10 feet from all property lines.)

Design Occupant Load: (per Table 1004.12)

FM Lab	: 5,487 net/50	=	110 occupants
IE Lab	: 2,704 net/50	=	54 occupants
Inspection	: 455 net/50	=	9 occupants
Welding Lab	: 1,171 net/50	=	24 occupants
HVAC Lab	: 2,763 net/50	=	46 occupants
Classroom 124	: 508 net/50	=	26 occupants
Classroom 125	: 502 net/50	=	26 occupants
Classroom 128	: 478 net/50	=	24 occupants
Classroom 129	: 478 net/50	=	24 occupants
Classroom 130	: 533 net/50	=	26 occupants
Classroom 131	: 592 net/50	=	30 occupants
Classroom 132	: 565 net/50	=	28 occupants
Office Areas	: 2,118/100	=	22 occupants
Storage Areas	: 1,183/300	=	4 occupants
Dock	: 722/300	=	3 occupants
Lounge	: 282 net/15	=	19 occupants
Total Design Occupant Load			475 occupants

Required Exits: (per Tables 1018.1 & 1018.2)

AREA	REQUIRED	PROVIDED
FM Lab	2	2
IE Lab	2	2
HVAC Lab	1	2
Welding Lab	1	2
Welding Lab	2	6

Egress Width: (per Table 1005.1)

AREA	OCC LOAD	REQUIRED	PROVIDED
Corridor	300	300 x .2 = 60.4"	84"
Main Entrance Doors	300	300 x .2 = 60.4"	72"

Exit Travel Distance: (per Table 1016.1)
Spaces/Buildings W/ One Exit (Table 1015.1):
Common Path of Egress Travel (Per Section 1014.3)

MAXIMUM	ACTUAL LONGEST
250'	120'

Automatic Fire Sprinklers: Section 903.2.3, Group E: Sprinklers are required for all fire areas exceeding 12,000 SF.
Section 903.4: A fire alarm control unit is required to monitor the sprinkler system that will sound an alarm upon sprinkler water flow.

Manual Fire Alarm: Required per Section 907.2.3

COCHRAN

- CIVIL ENGINEERING
- LAND SURVEYING
- ARCHITECTURE
- SITE DEVELOPMENT
- MASTER PLANNING
- GENERAL CONSULTING

530A E. INDEPENDENCE DRIVE, UNION, MISSOURI 63084
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mail@cochraneng.com

STATE OF MISSOURI
JOSEPH ANDREW MCGOWAN
NUMBER A-6973
12-23-15
REGISTERED ARCHITECT

12-23-15
Joseph A. McGowan No. A-6973
Registered Architect
State of Missouri
Cochran

Two working days prior to the start of any excavation on this site, contractor shall call 1-800-DIG-RITE for utility location information.

All OSHA rules & regulations established for the type of construction required by these plans shall be strictly followed (ie. Trenching, Blasting, etc.)

COVER SHEET

DATE: 12-23-15
SCALE: N.T.S.
PROJ. NO: 15-6038
EDA No. 05-01-05778
DWG. NO: CS

ISSUED BY:	DATE:	REVISION:	DWN. BY:	APP'D. BY:
JAM	10/20/16	Welding Gas Piping	JAM	JAM