FARMINGTON CORRECTION CENTER 1012 W COLUMBIA STREET FARMINGTON, MO 63640

FARMINGTON CORRECTIONAL CENTER - SERVICE ADD ELECTRICAL CIRCUITS TO EMERGENCY GENERATOR FOOD SERVICES WAREHOUSE

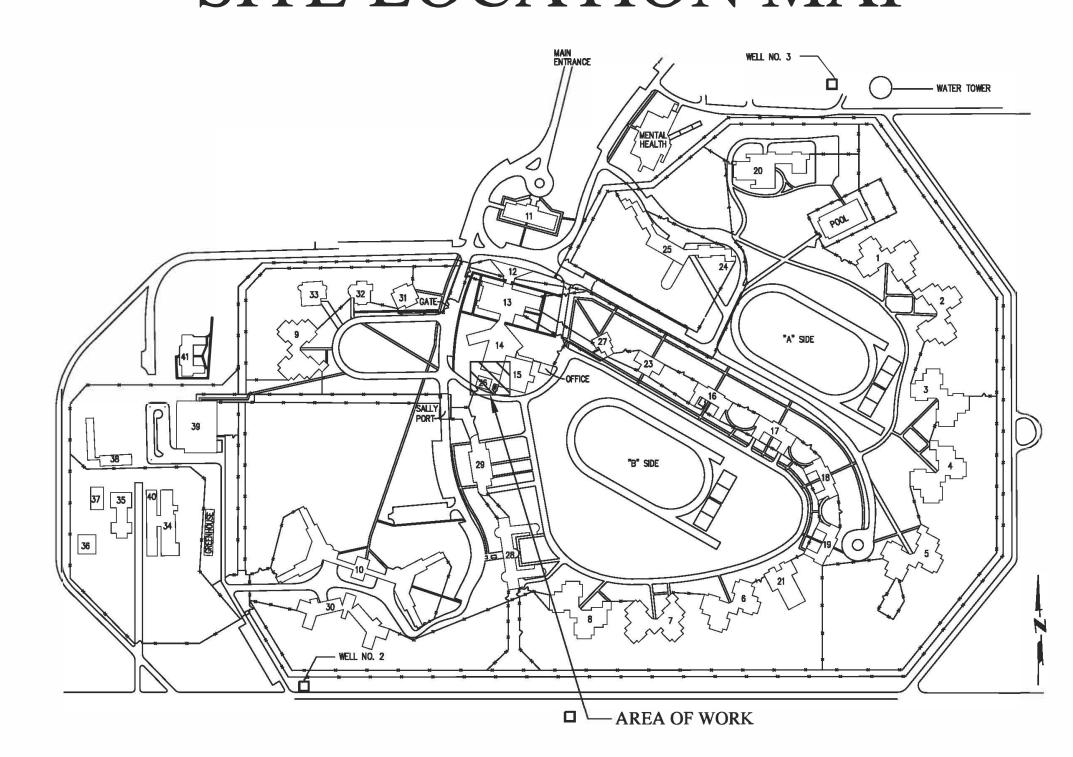
McClure Engineering

000 Clark Avenue Saint Louis. Missouri 63102

Missouri State Certificate of Authority #000087

T 314-645-6232 F 314-645-4128 www.McClureeng.com

SITE LOCATION MAP



SHEET INDEX:

GENERAL:

ELECTRICAL: CS-1

E0.0

COVER SHEET ELECTRICAL SYMBOLS AND ABBREVIATIONS

ONE-LINE - ELECTRICAL SITE PLAN - ELECTRICAL E1.0

OWNER:

STATE OF MISSOURI MIKE KEHOE, GOVERNOR

DEPARTMENT OF CORRECTIONS

PROJECT MANAGEMENT:

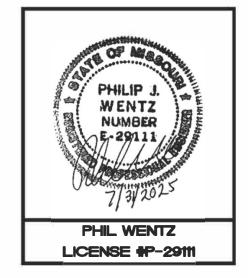
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

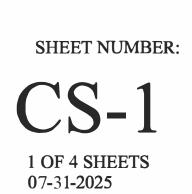
DESIGNER: PROJECT NUMBER:

SITE NUMBER:

MCCLURE ENGINEERING C2238-01 7008 FACILITY NUMBER: 9327008085

BID SET: JULY 31, 2025





ELECTRICAL SYMBOLS

SITE EQUIPMENT

MANHOLE HANDHOLE

GENERATOR

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AL ALUMINUM

ARC ALUMINUM RIGID CONDUIT AUX AUXILIARY BOF BOTTOM OF FIXTURE

C CONDUIT CB CIRCUIT BREAKER CKT CIRCUIT COF CENTER OF FIXTURE

EC ELECTRICAL CONTRACTOR

EMT ELECTRICAL METALLIC TUBING EWC ELECTRIC WATER COOLER GRC GALVANIZED RIGID CONDUIT G GROUND FAULT CIRCUIT INTERRUPTER

GRD GROUND IMC INTERMEDIATE METAL CONDUIT MCB MAIN CIRCUIT BREAKER

MLO MAIN LUG ONLY NC NORMALLY CLOSED NF NON FUSED NL UNSWITCHED NIGHT LIGHT

NO NORMALLY OPEN NTS NOT TO SCALE PVC PVC CONDUIT TOF TOP OF FIXTURE

U USB PORT UCR UNDER CABINET REFRIGERATOR UNO UNLESS NOTED OTHERWISE

WPI WEATHERPROOF IN-USE COVER MOUNTING HEIGHTS

OTHERWISE NOTED ON PLANS

SHEET IS PLOTTED TO SCALE IF ADJACENT LINE MEASURES 1 INCH

WP WEATHERPROOF COVER

ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE/

ALL MOUNTING HEIGHTS ARE AS GIVEN UNLESS

LIGHT FIXTURE, UNLESS OTHERWISE NOTED

COMMUNICATION DEVICES

SINGLE CONVENIENCE OUTLET, RECESSED 'COMMUNICATIONS' OUTLET, RECESSED WALL WALL MOUNTED +18" AFF, `UNO' ON FLOOR PLANS ✓ MOUNTED +18" AFF, `UNO' ON FLOOR PLANS SEE FLOOR PLANS FOR DEVICE TYPE AND DUPLEX CONVENIENCE OUTLET, RECESSED WALL MOUNTED +18" AFF, `UNO' ON FLOOR PLANS

NUMBER `COMMUNICATIONS' OUTLET, RECESSED WALL MOUNTED +44" AFF (ABOVE COUNTER), 'UNO' ON FLOOR PLANS SEE FLOOR PLANS FOR DEVICE TYPE AND NUMBER

'COMMUNICATIONS' OUTLET, RECESSED FLOOR MOUNTED SEE FLOOR PLANS FOR DEVICE TYPE AND NUMBER

'COMMUNICATIONS, RECESSED IN CEILING SEE FLOOR PLANS FOR DEVICE TYPE AND

COMMUNICATION DEVICE TYPE

★ = B BLANK COVERPLATE ROUGH - IN D DATA I INTERCOM ICS INTERCOM CALL-IN STATION

M MICROPHONE P PRINTER T TELEPHONE TV TELEVISION / MONITOR

WAP WIRELESS ACCESS POINT

FUTURE WIRELESS ACCESS POINT (WAP) PROVIDE 15'-0" SERVICE LOOP AT OUTLET, SERVICE LOOP SHALL BE COILED IN ACCESSIBLE CEILING SPACE. WHEN OUTLET IS LOCATED IN AREAS THAT ARE OPEN TO STRUCTURE, OUTLET SHALL BE MOUNTED TO STRUCTURE PROVIDE 15'-0" SERVICE LOOP AT OUTLET, SERVICE LOOP

MISCELLANEOUS CONTROL DEVICES

SHALL BE COILED AND TIED TO STRUCTURE

PUSH-BUTTON/PUSH PAD RECESSED WALL MOUNTED

MUSHROOM HEAD/EMERGENCY PUSH BUTTON RECESSED WALL MOUNTED +48" AFF

MOTOR CONTROL CENTER TRANSFORMER, SEE PLAN FOR TYPE AUTOMATIC TRANSFER SWITCH GENERATOR REMOTE ANNUNCIATOR FACTORY WIRED CONTROL PANEL VARIABLE FREQUENCY DRIVE SINGLE PHASE MANUAL MOTOR STARTER WITH PILOT LIGHT MAGNETIC STARTER 1 PHASE MAGNETIC STARTER 3 PHASE COMBINATION MAGNETIC STARTER/ DISCONNECT SWITCH 1 PHASE COMBINATION MAGNETIC STARTER/ DISCONNECT SWITCH 3 PHASE

POWER EQUIPMENT

PANELBOARD

DISTRIBUTION PANEL

SWITCHBOARD

AND SIZE

WEATHER HEAD

RELAY IN BOX

DISCONNECT SWITCH

LINE VOLTAGE THERMOSTAT

VAV JUNCTION BOX WITH TOGGLE

MAIN BONDING JUMPER; SIZE PER NEC 250.66 --GEC; SIZE PER NEC 250.66 SERVICE - — P | ENTRANCE PER NEC PER NEC 250.102C / 250.66 -250.102C / 250.66 — **၀ ၀ ၀ ၀ ၀ ၁** ၁ POLE ATS MAIN GROUNDING CONDUCTOR; SIZE PER NEC 250.122

RECEPTACLES

X-X

DUPLEX CONVENIENCE OUTLET, RECESSED

WALL MOUNTED ABOVE COUNTER +44" AFF

DOUBLE DUPLEX CONVENIENCE OUTLET,

DOUBLE DUPLEX CONVENIENCE OUTLET,

+44" AFF, `UNO' ON FLOOR PLANS

RECESSED WALL MOUNTED ABOVE COUNTER

SPECIAL PURPOSE OUTLET, RECESSED WALL

MOUNTED +18", 'UNO' ON FLOOR PLANS

DUPLEX RECEPTACLE, RECESSED FLOOR

DOUBLE DUPLEX RECEPTACLE, RECESSED

DEAD FRONT / FACELESS `GFCI' DEVICE

RECESSED WALL MOUNTED +48" AFF

WITH ENGRAVED COVERPLATE AS

RECESSED WALL MOUNTED +18" AFF,

'UNO' ON FLOOR PLANS

'UNO' ON FLOOR PLANS

CEILING MOUNTED

FLOOR MOUNTED

NOTED ON FLOOR PLAN

RECESSED FLOOR BOX

'UNO' ON FLOOR PLANS

G GROUND FAULT CIRCUIT INTERRUPTER

WPI WEATHERPROOF IN-USE COVER

RECEPTACLE SUBSCRIPT

HG HOSPITAL GRADE

U USB PORT

TR TAMPER RESISTANCE

WR WEATHER RESISTANCE WP WEATHERPROOF COVER

IG ISOLATED GROUND

? = FLOOR BOX TYPE (`A', ETC)

SEE FLOOR BOX SCHEDULE

RECESSED WALL MOUNTED +18" AFF

4"x4"x2" JUNCTION BOX WITH FINISHED BLANK COVER

4"x4"x2" JUNCTION BOX WITH FINISHED BLANK COVER

MOUNTED ABOVE ACCESSIBLE CEILING UNO

MOUNTING AND SIZE AS NOTED ON FLOOR PLAN

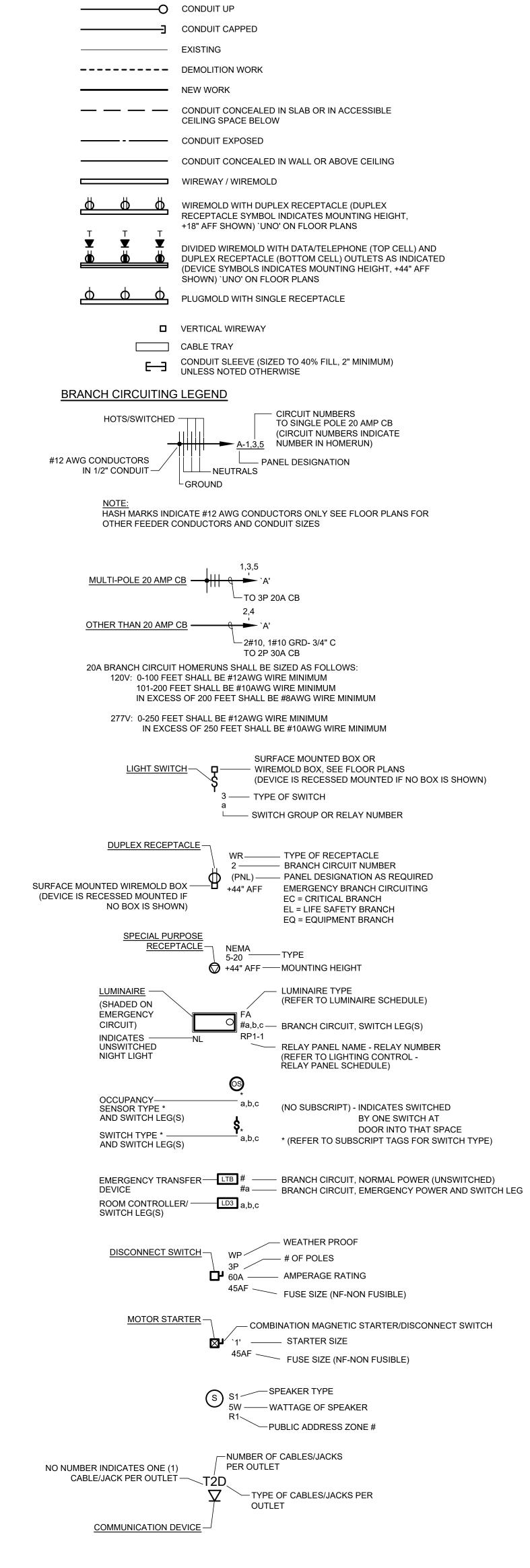
PULL BOX WITH FINISHED BLANK COVER

MOUNTED

NEMA SEE FLOOR PLANS FOR SIZE

WITH CIRCUIT BREAKER AT GENERATOR

NEC PARAGRAPH REFERENCES ARE TO NEC 2014 CODE.



WIRING SYMBOLS

CONDUIT DOWN

McClure ENGINEERING 1000 Clark Avenue Saint Louis, Missouri 63102 T 314-645-6232 MEP Engineers: McClure Engineering Professional Engineering Corporation Missouri State Certificate of Authority #000087

> - SERVIC GENCY HOUSE ΖШѮ CE TO ES ORRE Q K K NOL 'ARMING' ADD EL GENER

PHIL WENTZ STATE LIC. # - 029111

WENTZ

NUMBER

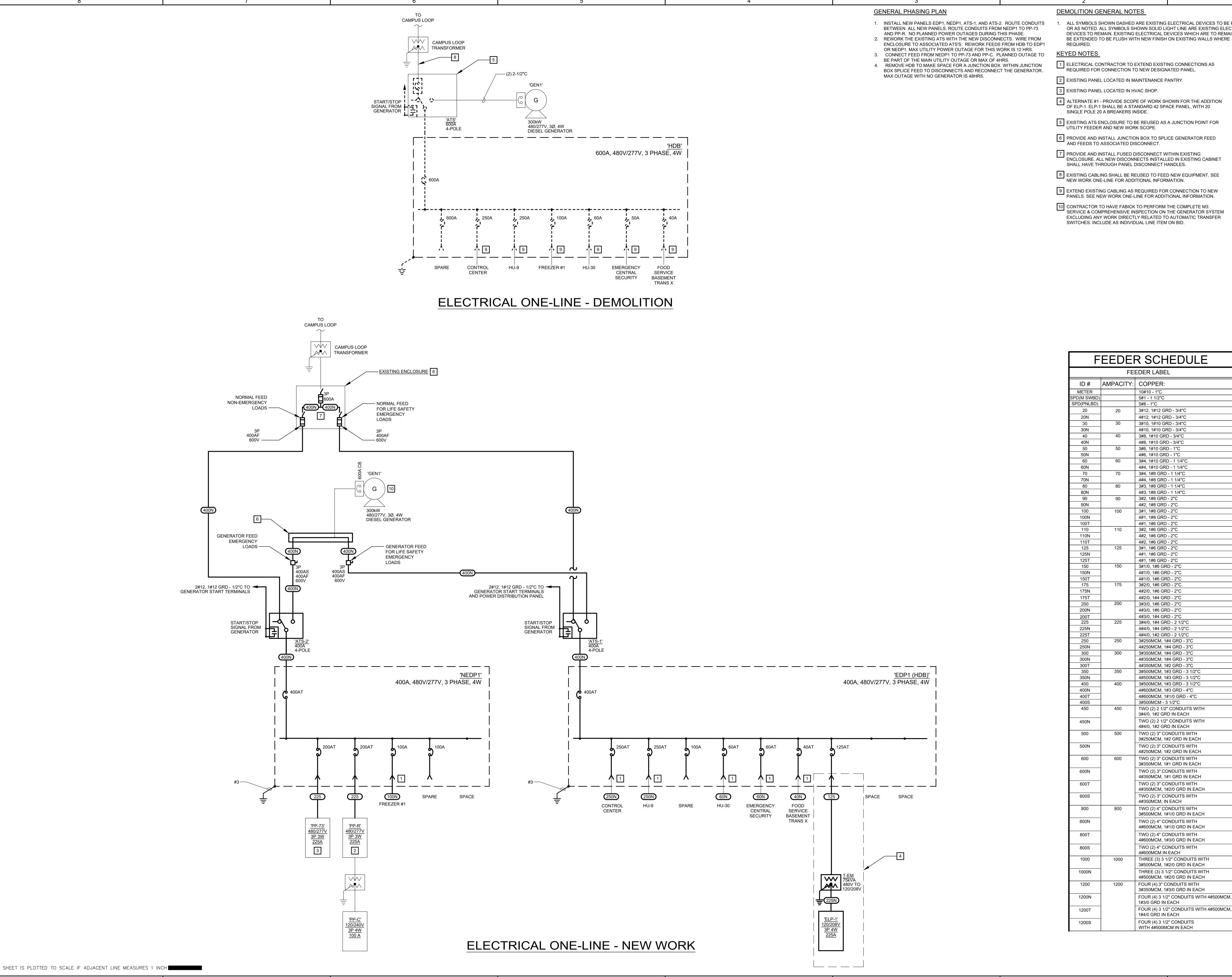
CHECKED BY: MW SYMBOLS, **ABBREVIATIONS** AND

PROJECT #: C2238-01

DRAWN BY:

DETAILS

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ALL SYMBOLS SHOWN DASHED ARE EXISTING ELECTRICAL DEVICES TO BE REMOVED OR AS NOTED. ALL SYMBOLS SHOWN SOLID LIGHT LINE ARE EXISTING ELECTRICAL DEVICES TO REMAIN. EXISTING ELECTRICAL DEVICES WHICH ARE TO REMAIN SHALL BE EXTENDED TO BE FLUSH WITH NEW FINISH ON EXISTING WALLS WHERE

1 ELECTRICAL CONTRACTOR TO EXTEND EXISTING CONNECTIONS AS

2 EXISTING PANEL LOCATED IN MAINTENANCE PANTRY.

4 ALTERNATE #1 - PROVIDE SCOPE OF WORK SHOWN FOR THE ADDITION OF ELP-1. ELP-1 SHALL BE A STANDARD 42 SPACE PANEL, WITH 20

5 EXISTING ATS ENCLOSURE TO BE REUSED AS A JUNCTION POINT FOR

6 PROVIDE AND INSTALL JUNCTION BOX TO SPLICE GENERATOR FEED

7 PROVIDE AND INSTALL FUSED DISCONNECT WITHIN EXISTING ENCLOSURE. ALL NEW DISCONNECTS INSTALLED IN EXISTING CABINET SHALL HAVE THROUGH PANEL DISCONNECT HANDLES.

8 EXISTING CABLING SHALL BE REUSED TO FEED NEW EQUIPMENT. SEE NEW WORK ONE-LINE FOR ADDITIONAL INFORMATION.

SERVICE & COMPREHENSIVE INSPECTION ON THE GENERATOR SYSTEM EXCLUDING ANY WORK DIRECTLY RELATED TO AUTOMATIC TRANSFER SWITCHES. INCLUDE AS INDIVIDUAL LINE ITEM ON BID.

> ENTER - SERVICE EMERGENCY WAREHOUSE CE TO ES SORRECTIONAL (
> RICAL CIRCUITS R FOOD SERVICE ON COF CTRIC/ TOR FO NOL ARMING-ADD EL GENER

McClure

1000 Clark Avenue

McClure Engineering

Authority #000087

T 314-645-6232

MEP Engineers:

Corporation

ENGINEERING

Saint Louis, Missouri 63102

Professional Engineering

Missouri State Certificate of

PHILIP J. WENTZ NUMBER E-29111 PHIL WENTZ STATE LIC. # - 029111

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ONE - LINE DIAGRAM



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