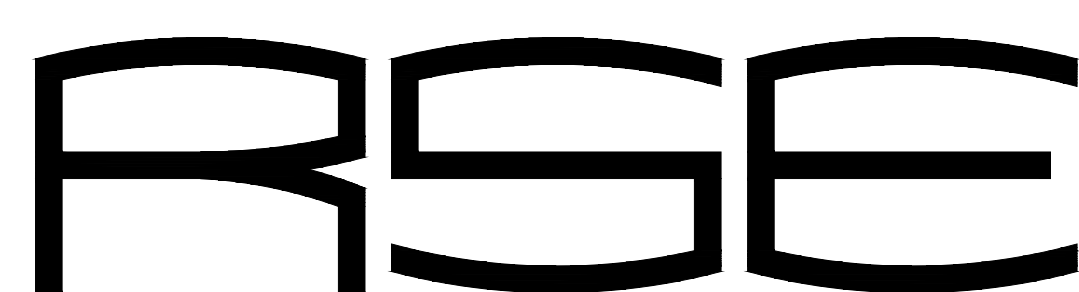


REPLACE EMERGENCY GENERATOR,  
INFRASTRUCTURE  
ST. LOUIS FORENSIC TREATMENT CENTER - SOUTH  
ST. LOUIS, MISSOURI

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ROGERS-SCHMIDT ENGINEERING CO., P.C.

CONSULTING ENGINEERS  
MISSOURI STATE CERTIFICATE  
OF AUTHORITY #000408

OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR  
  
DEPARTMENT OF MENTAL HEALTH

PROJECT  
MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNERS: MECHANICAL/ELECTRICAL  
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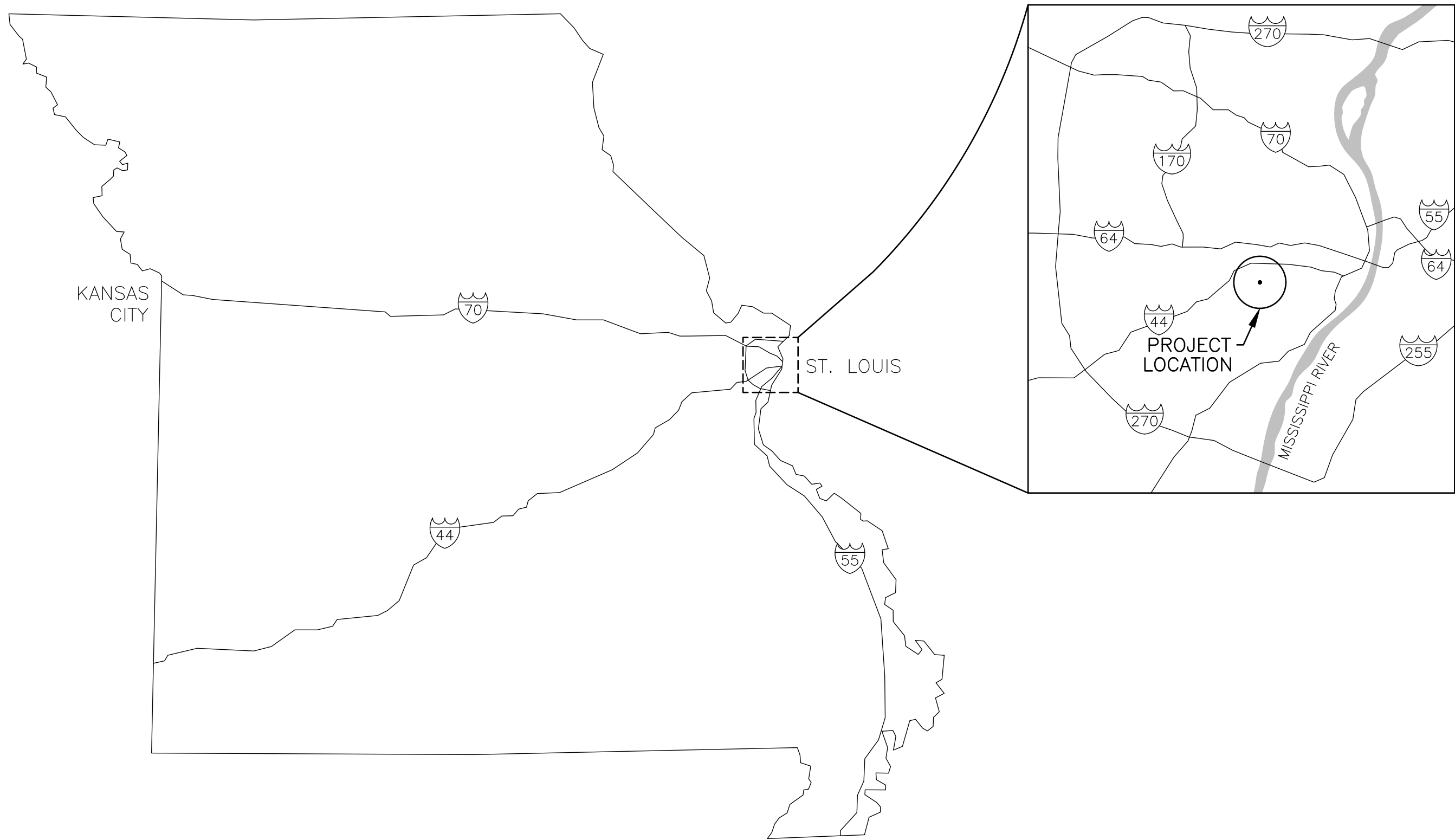
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SITE NUMBER: 7355  
ASSET NUMBER: 6517335013

SHEET NUMBER:

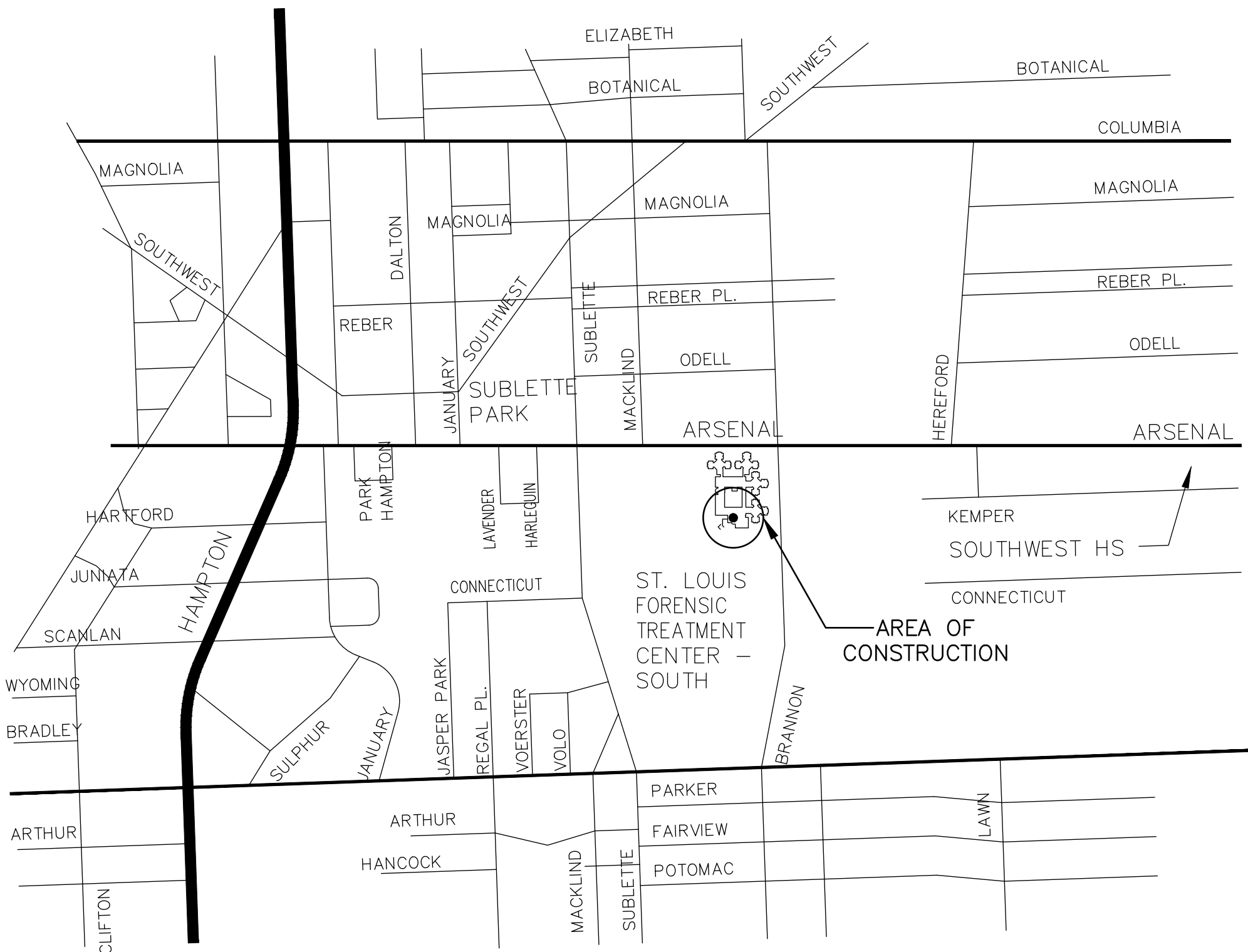
G-001

01 OF 26 SHEETS  
JUNE 22, 2022



LOCATION MAP  
NO SCALE

NORTH



SITE MAP  
NO SCALE

PLAN NORTH

DRAWING INDEX			
DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
G-001	COVER SHEET	ED-601	ONE-LINE DIAGRAM - DEMOLITION
G-002	SITE MAPS AND DRAWING INDEX	E-101	ELECTRICAL PLAN - FIRST FLOOR - AREA C
G-003	CONSTRUCTION LIMITS, SCHEDULE & PHASING	E-102	ELECTRICAL PLAN - FIRST FLOOR - AREA B
S-100	GENERAL NOTES	E-103	ELECTRICAL PLAN - SECOND FLOOR
S-101	SPECIAL INSPECTIONS & ABBREVIATIONS	E-401	ENLARGED ELECTRICAL PLANS - FIRST FLOOR
S-200	GENERATOR FOUNDATION PLAN & SECTIONS	E-501	ELECTRICAL DETAILS
MS-102	MECHANICAL SITE PLAN - DEMOLITION & NEW WORK	E-601	ONE-LINE DIAGRAM
E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES	E-602	ONE-LINE DIAGRAM
ES-101	ELECTRICAL SITE PLAN - DEMOLITION	E-603	PANEL SCHEDULES - LIFE SAFETY BRANCH
ES-102	ELECTRICAL SITE PLAN - NEW WORK	E-604	PANEL SCHEDULES - CRITICAL BRANCH
ED-101	ELECTRICAL PLAN - DEMOLITION	E-605	PANEL SCHEDULES - CRITICAL BRANCH
ED-401	ENLARGED ELECTRICAL PLANS - DEMOLITION	E-606	PANEL SCHEDULES - EQUIPMENT BRANCH
		E-607	PANEL SCHEDULES - EQUIPMENT BRANCH
		E-608	PANEL SCHEDULES - EQUIPMENT BRANCH

STATE OF MISSOURI  
MICHAEL L. PARSON,  
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Registered Professional Engineer  
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DESIGN AND CONSTRUCTION

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PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

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CHECKED BY: B D F  
DESIGNED BY: B D F

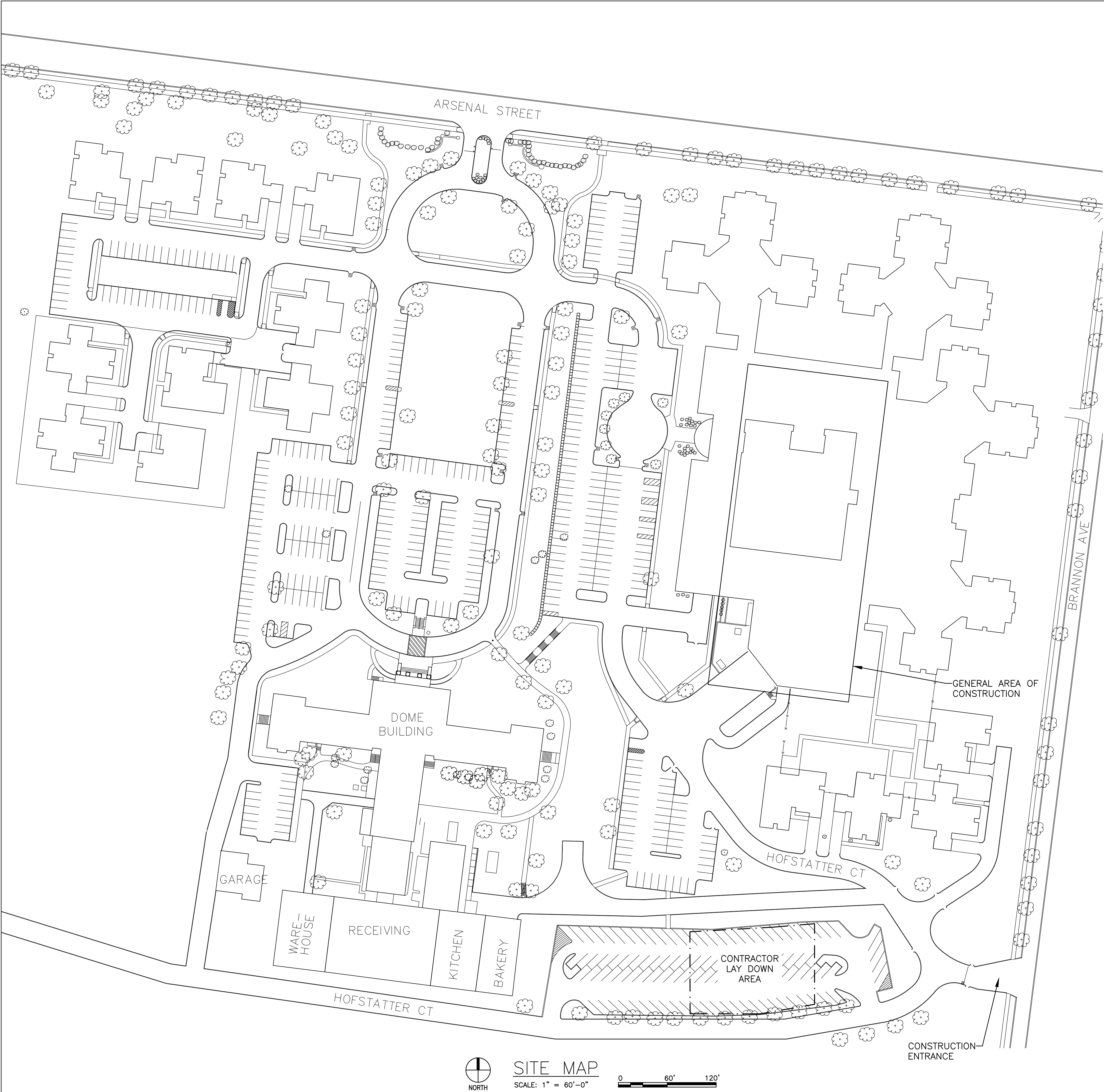
SHEET TITLE:  
SITE MAPS AND  
DRAWING INDEX

SHEET NUMBER:

G-002

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JUNE 22, 2022





PROJECT GENERAL NOTES:

- A. COORDINATE CONSTRUCTION FENCE, LAYDOWN AREA AND CONTRACTOR PARKING WITH CONSTRUCTION REPRESENTATIVE.
- B. LAYDOWN AREA SHALL BE APPROVED BY THE CONSTRUCTION REPRESENTATIVE & RESTORED TO ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE.
- C. CONTRACTOR SHALL NOT BLOCK ACCESS TO ANY MANHOLE OR VALVE BOX.
- D. USE RUBBER TIRE EQUIPMENT IN PLANTED AREAS.
- E. DO NOT STORE EQUIPMENT OR MATERIAL IN AREA OF TREES. PROTECT TREES FROM DAMAGE UNLESS NOTED OTHERWISE. TRIM TREES AS REQUIRED PRIOR TO CONSTRUCTION, SUBJECT TO APPROVAL OF CONSTRUCTION REPRESENTATIVE.
- F. INSTALL CONSTRUCTION FENCING AROUND THE DRIP LINES OF ALL TREES IN WORK AREAS.
- G. DOCUMENT EXISTING CONDITIONS WITH PHOTOGRAPHS PRIOR TO PROCEEDING.
- H. REPAIR ALL DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION TO SATISFACTION OF THE CONSTRUCTION REPRESENTATIVE. MATCH EXISTING CONSTRUCTION AND FINISH.
- I. COMPLY WITH THE INTERNATIONAL FIRE CODE INCLUDING THE REQUIREMENTS FOR FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION AND FOR WELDING AND OTHER HOT WORK. MAINTAIN A HOT WORK PROGRAM PERMIT SYSTEM.
- J. MINIMIZE HOT WORK WITHIN BUILDINGS.
- K. PROVIDE A FIRE WATCH FOR ALL DEMOLITION AND CONSTRUCTION HOT WORK (CUTTING, GRINDING, WELDING, SOLDERING, ETC.). MAINTAIN FIRE WATCH FOR AT LEAST 4 HOURS AFTER COMPLETION OF HOT WORK.
- L. IDENTIFY & PROTECT ALL CONSTRUCTION AREAS WITH SIGNS AND SAFETY BARRIERS TO THE SATISFACTION OF THE CONSTRUCTION REPRESENTATIVE.
- M. SECURE ALL CONSTRUCTION AREAS WITH BARRIERS & LOCKS AS REQUIRED TO PREVENT ACCESS BY RESIDENTS OR UNAUTHORIZED PERSONS AT ALL TIMES.
- N. SECURE ALL MECHANICAL & ELECTRICAL ROOMS WHEN UNOCCUPIED.
- O. SECURE ALL HAND TOOLS IN LOCKED TOOL BOXES & LOCK ALL EQUIPMENT WHEN NOT IN USE.
- P. ALL UNSECURED MATERIAL, TOOLS, ETC. MUST BE REMOVED FROM THE FACILITY AT THE END OF EACH WORK DAY.
- Q. AVAILABLE INFORMATION INDICATES PROJECT WORK AREAS HAVE BEEN ASBESTOS ABATED. FIELD VERIFY WITH ASBESTOS SURVEY OF APPLICABLE WORK AREAS PRIOR TO PROCEEDING.

CONSTRUCTION PHASING & SCHEDULING:

- 1. THE PROJECT SHALL BE COMPLETED AS NECESSARY TO PROVIDE UNINTERRUPTED OPERATION OF THE FACILITY. THE SEQUENCING, PHASING AND SCHEDULING OF ALL WORK SHALL BE DEPENDENT ON AND SUBJECT TO FACILITY OPERATIONS.
- 2. THE NATURE OF THIS PROJECT REQUIRES A HIGH LEVEL OF COORDINATION BY CONTRACTOR WITH OWNER.
- 3. ALL WORK SHALL BE SCHEDULED WITH THE CONSTRUCTION REPRESENTATIVE AND BE SUBJECT TO THE FACILITY'S APPROVAL PRIOR TO PROCEEDING.
- 4. THE PROJECT REQUIRES OUTAGES TO BUILDING SYSTEMS. CONTRACTOR SHALL COMPLETE ALL RELATED WORK TO THE MAXIMUM EXTENT POSSIBLE PRIOR TO THE START OF OUTAGES. CONTRACTOR SHALL HAVE ALL REQUIRED MATERIALS ON SITE PRIOR TO START OF OUTAGES.
- 5. TIE-INS TO BUILDING SYSTEMS SHALL BE MADE DURING APPROVED OUTAGES AND WORK SHALL BE DONE AROUND-THE-CLOCK UNTIL THE TIE-IN IS COMPLETED.
- 6. PROVIDE A TEMPORARY GENERATOR FOR ANY POWER OUTAGE LONGER THAN 4 HRS TO AVOID THE OWNER HAVING TO CONDUCT FIRE WATCHES IN AREAS WHERE FIRE PROTECTION, FIRE ALARM, DEDICATED TELEPHONE, OR EMERGENCY MANAGEMENT SYSTEMS WILL BE OUT OF SERVICE DUE TO THE POWER OUTAGE.
- 7. OUTAGES SHALL BE COORDINATED WITH THE CONSTRUCTION REPRESENTATIVE AND ARE WEATHER DEPENDENT. CONTRACTOR SHALL NOTIFY CONSTRUCTION REPRESENTATIVE TWO (2) WEEKS IN ADVANCE OF DESIRED OUTAGE TIME. CONSTRUCTION REPRESENTATIVE WILL GIVE CONTRACTOR 72 HOURS ADVANCE NOTICE OF ACTUAL TIME FOR OUTAGE.
- 8. OUTAGES SHALL BE COMPLETED DURING ACCEPTABLE WEATHER CONDITIONS (50°F TO 80°F OUTDOOR AIR TEMPERATURE), UNLESS APPROVED OTHERWISE BY CONSTRUCTION REPRESENTATIVE.
- 9. LIMIT EMERGENCY GENERATOR (EG) REPLACEMENT OUTAGE TO NO MORE THAN 10 WORKING DAYS. EG SHALL BE FULLY OPERATIONAL WITHIN 10 WORKING DAYS OF START OF EG OUTAGE. PROVIDE ≥400kW TEMPORARY EG DURING THE PERIOD OF TIME THE FACILITY'S EG IS OUT OF SERVICE.
- 10. ALL SITE CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO 7:00 AM TO 3:30 PM ON MONDAY THRU FRIDAY, UNLESS APPROVED OTHERWISE IN ADVANCE BY CONSTRUCTION REPRESENTATIVE.
- 11. NO WORK IS TO TAKE PLACE ON WEEKENDS OR STATE OBSERVED HOLIDAYS UNLESS APPROVED IN WRITING IN ADVANCE BY CONSTRUCTION REPRESENTATIVE.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

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PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

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DESIGNED BY: BDF

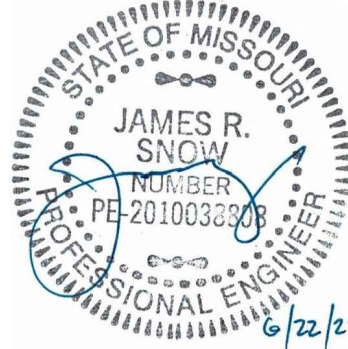
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CONSTRUCTION  
LIMITS, SCHEDULE,  
& PHASING

SHEET NUMBER:

G-003

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JUNE 22, 2022



DIVISION 1 - GENERAL REQUIREMENTS		
1.1 CONSTRUCTION MEANS AND METHODS		
A. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD OWNER AND STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR ENGINEER.		
B. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER WILL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.		
C. ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.		
D. ENGINEER SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ENGINEER SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.		
E. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED AND PROVIDED BY CONTRACTOR. REFER TO DIV.1 SECTION 1.4 PAR H FOR ADDITIONAL REQUIREMENTS.		
F. PRIOR TO COMMENCING WITH REMOVAL OF EXISTING SOIL OR CONCRETE, CONTRACTOR SHALL:		
1. REVIEW THE EFFECT OF SOIL OR CONCRETE REMOVAL ON THE INTEGRITY OF THE EXISTING STRUCTURE AND EXISTING UTILITIES TO AVOID/PREVENT INSTABILITY AND/OR INTERRUPTION OF FUNCTION AND SERVICE.		
2. PROVIDE SHORING OF EXISTING STRUCTURAL MEMBERS AND TEMPORARY SUPPORT AND/OR PROTECTION OF ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING (I.E. AMEP) COMPONENTS AS NECESSARY FOR MEMBERS AND COMPONENTS TO REMAIN IN PLACE AND/OR IN SERVICE DURING CONSTRUCTION.		
3. TEMPORARILY RELOCATE AND/OR REMOVE AND REINSTALL AMEP COMPONENTS AS REQUIRED FOR STRUCTURAL REPAIRS AND INSTALLATION OF THE WORK. SUBMIT PLAN AND/OR LIST OF ITEMS WITH LOCATIONS OF ITEMS TO BE TEMPORARILY RELOCATED AND/OR REMOVED AND REINSTALLED TO OWNER'S REPRESENTATIVE FOR REVIEW AND COORDINATION PRIOR TO PERFORMING WORK. REINSTALL COMPONENTS AS SHOWN ON DRAWINGS AND/OR IN ACCORDANCE WITH CURRENT BUILDING CODE REQUIREMENTS OF THE CITY OF ST. LOUIS, MISSOURI.		
4. DEMOLISH AND REMOVE EXISTING AMEP COMPONENTS SHOWN TO BE REMOVED ON DRAWINGS AND/OR DETERMINED TO BE ABANDONED IN PLACE. SUBMIT PLAN AND/OR LIST OF ITEMS WITH LOCATIONS OF ABANDONED COMPONENTS AND COMPONENTS TO BE DEMOLISHED TO APPROPRIATE OWNER'S REPRESENTATIVE FOR REVIEW AND COORDINATION PRIOR TO PERFORMING WORK.		
5. INSTALL TEMPORARY CONSTRUCTION BARRIERS AS REQUIRED TO PREVENT UNAUTHORIZED ACCESS TO THE CONSTRUCTION SITE AND FOR PROTECTION OF PERSONNEL AND VEHICLES.		
1.2 JOB CONDITIONS		
A. THESE DRAWINGS HAVE BEEN PREPARED BASED SOLELY ON INFORMATION GATHERED IN THE FIELD AND FROM AVAILABLE EXISTING ORIGINAL CONSTRUCTION DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND INFORMATION SHOWN ON DRAWINGS BEFORE AND DURING THE COURSE OF WORK ON THIS PROJECT.		
B. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THE EXECUTION OF THE WORK.		
C. THE JOBSITE IS AN OPERATING FACILITY AND AS SUCH, EVERY EFFORT SHALL BE TAKEN TO ENSURE MINIMAL INTERRUPTION TO NORMAL OPERATIONS.		
D. NO WORK THAT WILL PRODUCE EXCESSIVE NOISE, DUST, DEBRIS AND/OR FUMES SHALL BE PERFORMED WITHOUT OWNER PRIOR APPROVAL. IF PERMITTED BY OWNER OR MANAGER, ALL WORK THAT WILL PRODUCE EXCESSIVE NOISE, DUST, DEBRIS AND/OR FUMES SHALL BE COORDINATED AT TIMES ACCEPTABLE WITH MANAGEMENT (OWNER). ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE DAILY UNLESS SPECIFICALLY APPROVED IN ADVANCE BY OWNER.		
1. EXISTING VENTILATION INTAKES FOR THE BUILDING ARE IN VARIOUS LOCATIONS. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL AIR INTAKES FOR THE BUILDING AND PLAN AND COORDINATE ALL SMOKE-, DUST-, FUME-, AND ODOR-PRODUCING WORK TO PREVENT THESE AIR-BORNE PARTICLES OR GASSES FROM BEING PULLED INTO ANY OF THESE AIR INTAKES.		
E. COORDINATE WORK THAT WILL REQUIRE TEMPORARY CLOSURE OF SIDEWALKS, PARKING SPACES OR DRIVE LANES WITH THE OWNER.		
1. PROVIDE AND INSTALL TRAFFIC CONTROL SIGNALS AS REQUIRED TO COORDINATE WITH OWNER'S PERSONNEL ACCESS TO PARKING AREAS NOT CURRENTLY UNDER CONSTRUCTION DURING THE VARIOUS PROJECT PHASES.		
F. CONTRACTOR SHALL COORDINATE AND SUBMIT TO OWNER IN WRITING ALL CONNECTIONS TO, AND USE OF, EXISTING UTILITIES FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.		
G. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY UTILITIES NOT PROVIDED BY OWNER. OBSTRUCTIONS, EXTENSION CORDS AND HOSES ARE NOT PERMITTED IN AREAS TRAVELED BY OWNER'S OR MANAGER'S EMPLOYEES OR THE PUBLIC EXCEPT DURING HOURS SPECIFIED BY OWNER.		
1.3 SUBMITTALS		
A. CONTRACTOR SHALL REVIEW SUBMITTALS PREPARED BY SUBCONTRACTORS PRIOR TO SUBMITTING TO ENGINEER.		
B. PRODUCT DATA: FOR EACH TYPE OF MANUFACTURED MATERIAL AND PRODUCT INDICATED IN CONSTRUCTION DOCUMENTS.		
C. MATERIAL TEST REPORTS: FROM A QUALIFIED TESTING AGENCY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE WITH REQUIREMENTS INDICATED, BASED ON COMPREHENSIVE TESTING OF CURRENT MATERIALS.		
D. SHOP DRAWINGS: FOR EACH STRUCTURAL COMPONENT AS INDICATED ON CONSTRUCTION DOCUMENTS.		
E. WARRANTIES: SUBMIT MANUFACTURER'S AND INSTALLER'S SAMPLE WARRANTIES FOR EACH TYPE OF MANUFACTURED MATERIAL AND PRODUCT INDICATED IN CONSTRUCTION DOCUMENTS.		
F. ALL SUBMITTALS REVIEWED BY ENGINEER ARE REVIEWED FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. ANY ACTION INDICATED IS SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CORRELATING AND CONFIRMING DIMENSIONS AT THE JOB SITE, CHOICE OF FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION AND COORDINATION OF THE WORK WITH THAT OF OTHER TRADES.		
G. THE CONTRACTOR SHALL REVIEW AND APPROVE THE SHOP DRAWINGS AND SUBMITTALS PRIOR TO SUBMITTING THEM FOR REVIEW BY THE ENGINEER.		
1. THE CONTRACTOR SHALL PROVIDE ELECTRONIC PDF FILES OF SHOP DRAWINGS AND SUBMITTALS TO THE ENGINEER AND ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW PRIOR TO FABRICATION.		
1.4 QUALITY ASSURANCE		
A. INSTALLER QUALIFICATIONS: AN EXPERIENCED INSTALLER WHO HAS COMPLETED WORK SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WHOSE WORK HAS RESULTED IN CONSTRUCTION WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.		
B. REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEET THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.		
C. THESE CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION.		
D. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION OR CODE, WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS, SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, ENGINEER, CONTRACTOR, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO ENGINEER OR ANY OF ENGINEER'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.		
E. ALL OMISSIONS AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK. DO NOT PROCEED WITH PERFORMING THE WORK UNTIL A WRITTEN RESPONSE IS RECEIVED FROM ENGINEER.		
F. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER IN WRITING PRIOR TO PROCEEDING WITH THE WORK.		
G. DETAILS LABELED "TYPICAL" ON CONTRACT DOCUMENTS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS.		
H. CONTRACTOR DESIGNED ELEMENTS SHALL BE PREPARED BY LICENSED PROFESSIONAL ENGINEERS REGISTERED IN THE STATE WHERE PROJECT IS LOCATED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS WERE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. THE LICENSED PROFESSIONAL ENGINEER SHALL SEAL AND SIGN ALL DOCUMENTS NOTED. IF CRITERIA INDICATED ARE NOT SUFFICIENT, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO ENGINEER. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE CONTRACTOR DESIGNED AND INSTALLED:		
1. TEMPORARY BRACING AND SHORING		
A. SHORING DESIGN SHALL PREVENT OVERLOAD OF SUPPORTING STRUCTURAL ELEMENTS AND LOSS OF SOIL SUPPORT FROM BENEATH SUPPORTED FOUNDATIONS. REFER TO REFERENCE DRAWINGS FOR AVAILABLE INFORMATION ON EXISTING CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SHORING DESIGN AND INSTALLATION.		
2. TEMPORARY DUST, DEBRIS AND NOISE PROTECTION		
A. CONTRACTOR SHALL INSTALL AND MAINTAIN ALL VERTICAL PARTITIONS AND HORIZONTAL MEMBRANE BARRIERS REQUIRED TO PREVENT MATERIALS AND EXTERIOR ATMOSPHERIC CONDITIONS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES FROM ENTERING, NEGATIVELY IMPACTING AND/OR DAMAGING OWNER-OCCUPIED SPACES AND EQUIPMENT.		
B. CONTRACTOR SHALL PROVIDE ALL BARRIERS AND FILTERED VENTILATION EQUIPMENT REQUIRED TO COMPLY WITH OSHA RESPIRABLE CRYSTALLINE SILICA REGULATIONS AT BOTH THE STRUCTURE INTERIOR AND EXTERIOR.		
3. TEMPORARY WEATHER PROTECTION		
I. SEE DIVISION 1 SPECIFICATIONS FOR ADDITIONAL GENERAL REQUIREMENTS.		
1.5 STATEMENT OF SPECIAL INSPECTIONS		
A. STRUCTURAL INSPECTIONS SHALL BE IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE.		
1. THE CONTRACTOR SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705.		
A. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.		
B. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 110 OF THE CODE.		
B. SPECIAL INSPECTION REPORTS SHALL BE FURNISHED TO BUILDING OFFICIAL, OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR, AND IF NOT CORRECTED, SHALL BE REPORTED TO BUILDING OFFICIAL, OWNER, ARCHITECT, AND STRUCTURAL ENGINEER.		
C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING THAT THE STRUCTURAL WORK WAS, TO THE BEST OF THE SPECIAL INSPECTOR'S KNOWLEDGE, PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.		
D. CONTRACTOR RESPONSIBILITY		
1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR WIND OR SEISMIC RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT.		
2. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING		
A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.		
B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.		
C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS		
D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.		
E. SPECIAL INSPECTIONS ARE REQUIRED AS FOLLOWS:		
1. DESIGNATED SEISMIC SYSTEMS IN STRUCTURES ASSIGNED TO SDG D.		
A. PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING FLAMMABLE, COMBUSTIBLE OR HIGHLY TOXIC MATERIALS.		
B. ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER SYSTEMS.		
2. STEEL CONSTRUCTION: REFER TO SECTION 1705.2 AND THE ATTACHED TABLE.		
3. CONCRETE CONSTRUCTION: REFER TO SECTION 1705.3 AND THE ATTACHED TABLE.		
4. SOILS: REFER TO SECTION 1705.6 AND THE ATTACHED TABLE.		
1.6 DESIGN CRITERIA:		
A. THE EMERGENCY GENERATOR SUPPORT STRUCTURE AND ANCHORAGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, IBC, 2018 EDITION.		
B. GRAVITY LOADS:		
1. DESIGN IS BASED ON THE CAT C32 DIESEL GENERATOR SET HAVING A DRY WEIGHT OF 14,700 LBS, AN ENCLOSURE WEIGHT OF 5,600 LBS AND A FILLED FUEL TANK WEIGHT OF 24,500 LBS, WITH 20% INCREASE FOR IMPACT AND A 10% INCREASE FACTOR TO ALLOW FOR A HEAVIER GENERATOR SET FROM AN ALTERNATE MANUFACTURER.		
C. LATERAL LOADS:		
1. WIND LOADS FOR OTHER STRUCTURES		
A. RISK CATEGORY: IV		
B. IMPORTANCE FACTOR: 1.0		
C. BASIC WIND SPEED: 120 MPH		
D. WIND DIRECTIONALITY FACTOR: 0.9		
E. EXPOSURE: B		
F. TOPOGRAPHIC FACTOR: 1.0		
G. GUST-EFFECT FACTOR: 0.85		
H. VELOCITY PRESSURE EXPOSURE COEFFICIENT: 0.57		
I. VELOCITY PRESSURE: 18.9 PSF		
J. FORCE COEFFICIENT: 1.3		
K. DESIGN WIND PRESSURE: 20.9 PSF		
2. EARTHQUAKE LOAD:		
A. RISK CATEGORY: IV		
B. MAPPED SPECTRAL ACCELERATION AT SHORT PERIODS, SD: 0.446G		
C. MAPPED SPECTRAL ACCELERATION AT 1 SECOND, S1: 0.160G		
D. DESIGN SPECTRAL ACCELERATION AT SHORT PERIODS, SDS: 0.429G		
E. DESIGN SPECTRAL ACCELERATION AT 1-SECOND, SD1: 0.243G		
F. IMPORTANCE FACTOR: 1.5		
G. SITE CLASS: D		
H. SEISMIC DESIGN CATEGORY: D		
I. COMPONENT TYPE: VIBRATION ISOLATED COMPONENTS		
J. COMPONENT AMPLIFICATION FACTOR, AP: 2.5		
K. COMPONENT RESPONSE MODIFICATION FACTOR, RP: 2.0		
L. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE		
DIVISION 2 – GEOTECHNICAL		
2.1 GENERAL		
A. BEARING CAPACITY OF EXISTING FOUNDATIONS IS STATED IN STRUCTURAL NOTES ON DRAWING S0.1 OF ORIGINAL CONSTRUCTION DRAWINGS BY BOOKER ASSOCIATES DATED 3-1-1994, AS FOLLOWS:		
1. MAXIMUM STATIC BEARING PRESSURE OF 2.5 KSF FOR COLUMN FOOTINGS AND 2.0 KSF FOR WALL FOOTINGS.		
B. CONTRACTOR'S GEOTECHNICAL ENGINEER SHALL CERTIFY THE BEARING MEDIUM AND FILL COMPACTION.		
C. EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.		
2.2 BRACING AND SHORING		
A. CONTRACTOR SHALL DESIGN SHORING OF EXISTING CONSTRUCTION AND PROTECT EXISTING FOUNDATIONS OR SIDEWALKS BEARING ON SOIL ADJACENT TO EXCAVATIONS AS REQUIRED TO PREVENT LOSS OF BEARING SUPPORT AND SETTLEMENT.		
2.3 EXCAVATION		
A. REMOVE EXISTING SITE FILL MATERIALS AS SPECIFIED IN SECTION 311000 - SITE CLEARING.		
2.4 FILL		
A. PROVIDE AND INSTALL FILL MATERIAL AS SPECIFIED IN SECTION 312000 – EARTH MOVING.		
DIVISION 3 - REINFORCED CONCRETE		
3.1 SUMMARY		
A. THIS SECTION INCLUDES CAST-IN-PLACE CONCRETE, INCLUDING FORMWORK, REINFORCEMENT, CONCRETE MATERIALS, MIX DESIGN,, PLACEMENT PROCEDURES, FINISHES, AND CURING.		
3.2 GENERAL		
A. PERFORM CONCRETE WORK IN ACCORDANCE WITH THE FOLLOWING DIVISION 3 SPECIFICATION SECTIONS:		
1. SECTION 031000 – CONCRETE FORMING AND ACCESSORIES		
2. SECTION 032000 – CONCRETE REINFORCEMENT		
3. SECTION 033000 – CAST-IN-PLACE CONCRETE		
DIVISION 4 - CONCRETE MASONRY – NOT USED		
DIVISION 5 – METALS		
5.1 STRUCTURAL STEEL		
A. GENERAL		
1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AISC 303-16 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND RCSC (2014) "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS".		
2. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE.		
A. ANCHOR RODS	ASTM F1554, GRADE 36 WITH ASTM F436 WASHERS AND ASTM A563 HEAVY HEX NUTS	
3. ANCHOR BOLTS: INSTALL ANCHOR BOLTS AND OTHER CONNECTORS REQUIRED FOR SECURING STRUCTURAL STEEL TO FOUNDATIONS AND OTHER IN-PLACE WORK. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING BOLTS AND OTHER ANCHORS TO ACCURATE LOCATIONS.		
DIVISION 6 – WOOD – NOT USED		
DIVISION 7 – THERMAL AND MOISTURE PROTECTION – NOT USED		
END OF STRUCTURAL GENERAL NOTES		
STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR		
		
JAMES R. SNOW Registered Professional Engineer MO # PE- 2010038808 Expires 12-31-2022		
ROGERS-SCHMIDT ENGINEERING CO., P.C. CONSULTING ENGINEERS 1736 WEST PARK CENTER DR. SUITE 204 ST. LOUIS, MO 63026 PHONE: 636-600-1551 MISSOURI STATE CERTIFICATE OF AUTHORITY #000408		
<b>ABS Consulting</b> 55 Westport Plaza, Suite 700 St. Louis, MO 63146 Phone (314) 819-1550 Fax (314) 819-1551 www.absconsulting.com MISSOURI STATE CERTIFICATE OF AUTHORITY #2004000080		
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION		
DEPARTMENT OF MENTAL HEALTH		
REPLACE EMERGENCY GENERATOR, INFRASTRUCTURE ST. LOUIS FORENSIC TREATMENT CENTER - SOUTH 5300 ARSENAL STREET ST. LOUIS, MO 63139		
PROJECT # M1908-01 SITE # 7355 FACILITY # 6517335013		
REVISION: _____ DATE: _____ REVISION: _____ DATE: _____ REVISION: _____ DATE: _____		
ISSUE DATE: 06-22-2022		
CAD DWG FILE: M1908-01-7355-6517335013- S-100.DWG DRAWN BY: CPG CHECKED BY: JRS DESIGNED BY: SHS		
SHEET TITLE: GENERAL NOTES		
SHEET NUMBER:		
S-100		
04 OF 26 SHEETS JUNE 22, 2022		



[illegible]

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	-	X
2. Verify excavations are extended to proper depth and have reached proper material.	-	X
3. Perform classification and testing of compacted fill materials.	-	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	-
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	-	X

TYPE	SPECIAL INSPECTION		REFERENCED STANDARD
	CONTINUOUS	PERIODIC	
1. Material verification of high-strength bolts, nuts and washers:			
a. Material markings conforming to ASTM standards specified in the approved construction documents.		X	Applicable ASTM material specifications; AISC 360, Section A3.3, N5.1, N5.2
b. Manufacturer's certificate of compliance required.	-	X	



ADNLL	ANCHOR BOLT	MAS	MASONRY
ADH	ADDITIONAL	MAX	MAXIMUM
AFF	ADHESIVE	MC	MOMENT CONNECTION
ALT	ABOVE FINISH FLOOR	MECH	MECHANICAL
ANCH	ALTERNATE	MEZZ	MEZZANINE
APPROX	ANCHOR, ANCHORAGE	MFR	MANUFACTURER
ARCH	APPROXIMATE	MID	MIDDLE
	ARCHITECT	MIN	MINIMUM
		MISC	MISCELLANEOUS
B	BOTTOM		
B/	BOTTOM OF	(N)	NEW
BAL	BALANCE	NF	NEAR FACE
BL	BRICK LEDGE	NIC	NOT IN CONTRACT
BLDG	BUILDING	NS	NEAR SIDE
BLKG	BLOCKING	NTS	NOT TO SCALE
BM	BEAM		
BMD	BOTTOM OF METAL DECK	OO	OUT TO OUT
BOT	BOTTOM	OC	ON CENTER
BP	BOTTOM OF PIER	OD	OUTSIDE DIAMETER
BRG	BEARING	OPNG	OPENING
BT	BENT	OPP	OPPOSITE
BTWN	BETWEEN	OPP.HAND, OH	OPPOSITE HAND
CJ	CONSTRUCTION OR CONTROL JOINT	P NAIL	PNEUMATIC NAIL
CL	CENTER-LINE	P/C	PRECAST
CLR	CLEAR	PC	PIER CAP, PILE CAP
CMU	CONCRETE MASONRY UNIT	PL	PLATE
COL	COLUMN, COLUMNS	PLYWD	PLYWOOD
CONC	CONCRETE	PREFAB	PREFABRICATED
CONN	CONNECT, CONNECTION	PSF	POUND PER SQUARE FOOT
CONST	CONSTRUCTION	PSI	POUND PER SQUARE INCH
CONT	CONTINUE, CONTINUOUS	PT	POINT
CONTR	CONTRACTOR		
COR	CHANGE ORDER REQUEST	RAD	RADIUS
CTR	CENTER		
		REF	REFER, REFERENCE
DBA	DEFORMED BAR ANCHOR	REINF	REINFORCING OR REINFORCEMENT
DEG	DEGREE	REQD	REQUIRED
DIA	DIAMETER	RTU	ROOF TOP UNIT
DIAG	DIAGONAL		
DL	DEAD LOAD	SOG	SLAB-ON-GRADE
DN	DOWN	SS	STAINLESS STEEL
DWG	DRAWING	SCHED	SCHEDULE
DWL	DOWEL	SFOR	STRUCTURAL FIELD OBSERVATION
			REPORT
EA	EACH	SECT	SECTION
EF	EIFS FACE	SIGHT	SIGHT
EJ	EXPANSION JOINT	SHTMTL	SHEET METAL
EL	ELEVATION	SM	SIMILAR
EMBED, EMB	EMBEDMENT	SP	SPECIAL
ENG	ENGINEER	SPA	SPACE
EQ	EQUAL	SPEC	SPECIFICATIONS
EW	EACH WAY	SQ	SQUARE
(E)	EXISTING	STD	STANDARD
EXP	EXPANSION	STIFF	STIFFENER
EXT	EXTERIOR	STL	STEEL
		STRUC	STRUCTURAL
FDN	FOUNDATION	SW	SHEAR WALL
FF	FAR FACE	SYM	SYMMETRICAL
FIN	FINISH, FINISHED		
FLG	FLANGE	T	TOP
FLR	FLOOR	TI	TOP OF
FRP	FIBER-REINFORCED POLYMER	T/P	TOP OF PIER CAP
FS	FAR SIDE	T&B	TOP & BOTTOM
FTG	FOOTING	TBR	TO BE REMOVED
		TC	TOP OF CONCRETE
GA	GAUGE	TERM	TERMINATION
GALV	GALVANIZED	TF	TOP OF FOOTING
GB	GRADE BEAM	THD	THREAD, THREADED
GLB	GLUE-LAMINATED BEAM	THK	THICK, THICKNESS
GR	GRADE	TM	TOP OF MASONRY
		TOS	TOP OF SLAB
		TS	TOP OF STEEL
HD	HEADED	TW	TOP OF WALL
HK	HOOK	TYP	TYPICAL
HORIZ, HOR	HORIZONTAL		
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	VIF	VERIFY IN FIELD
INFO	INFORMATION	V8	VERTICAL BRACE
INT	INTERIOR	VT OR VERT	VERTICAL, VERTICALLY
JST	JOIST	w/	WITH
JT	JOINT	WAS	WELDED ACHOR STUD
		WD	WOOD
KB	KNEE BRACE	WF	WIDE FLANGE
		WWF	WELDED WIRE FABRIC
LG	LONG	WP	WORK POINT
LLH	LONG LEG HORIZONTAL	W.P.	WATERPROOFING
LLV	LONG LEG VERTICAL		
LP	LOW POINT		

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DEPARTMENT OF  
MENTAL HEALTH

REPLACE EMERGENCY  
GENERATOR,  
INFRASTRUCTURE  
ST. LOUIS FORENSIC  
TREATMENT CENTER -  
SOUTH  
5300 ARSENAL STREET  
ST. LOUIS, MO 63139

PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

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DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013- S-101.DWG

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DRAWN BY: CPG  
CHECKED BY: JRS  
DESIGNED BY: SHS

SHEET TITLE:  
SPECIAL  
INSPECTIONS &  
ABBREVIATIONS

SHEET NUMBER:

S-101

05 OF 26 SHEETS  
JUNE 22, 2022









CHRISTOPHER L. BARTH  
Registered Professional Engineer  
MO # E-28880  
Expires 12-31-2023

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CAD DWG FILE: M1908-01-7355-  
6517335013- MS-102.DWG  
DRAWN BY: CLB  
CHECKED BY: CLB  
DESIGNED BY: CLB

SHEET TITLE:  
MECHANICAL SITE  
PLAN -  
DEMOLITION &  
NEW WORK

SHEET NUMBER:

MS-102

07 OF 26 SHEETS  
JUNE 22, 2022

NEW EMERG/STANDBY GENERATOR.  
SEE ELECTRICAL DRAWINGS.

### KEY NOTES:

1. REMOVE 1" FUEL OIL SUPPLY (FOS) TO EXISTING EMERGENCY GENERATOR DAY TANK.
2. BURIED FOS TO REMAIN. BURIED FOS APPEARS TO BE 1" STEEL CARRIER PIPE WITHIN 4" STEEL CONTAINMENT PIPE.
3. REMOVE 1" FUEL OIL RETURN (FOR) FROM EXISTING EMERGENCY GENERATOR DAY TANK OVERFLOW.
4. BURIED FOR TO REMAIN. ACTUAL ROUTING OF BURIED FOR IS UNKNOWN. FIELD VERIFY.
5. BURIED FOR APPEARS TO BE  $\pm 1$ " PVC CARRIER PIPE WITHIN  $\pm 4$ " PVC CONTAINMENT PIPE. FIELD VERIFY.
6. INSTALL NEW 1" FOS TO NEW EMERGENCY GENERATOR FUEL OIL PUMPS.
7. INSTALL NEW 1" FOR FROM NEW EMERGENCY GENERATOR FUEL OIL TANK OVERFLOW CONNECTION.
8. RELOCATE BURIED FOR RISER TO CLEAR NEW EMERGENCY GENERATOR.
  - 8.1. NOTIFY ENGINEER WHEN PIPING IS EXPOSED PRIOR TO REMOVAL
  - 8.2. ALLOW ENGINEER TO OBSERVE PRIOR TO REMOVAL.
9. REPLACE CONCRETE PAVEMENT AS REQUIRED.
10. 6", SCH 40, GALVANIZED STEEL PIPE SLEEVE. FILL ANNULAR GAP WITH BACKER ROD & EXTERIOR GRADE SEALANT.
11. INSTALL NEW VALVES ON FOS TO EMERGENCY GENERATOR. FIELD VERIFY & MATCH EXISTING PIPE SIZE.
12. REPLACE INSULATION & JACKET AS REQUIRED.
13. INSTALL FLEXIBLE CONNECTORS AT EG PIPING CONNECTIONS.
14. INSTALL ON MINIMUM 6" OF WELL-COMPACTED SAND OR WELL-GRADED CRUSHED STONE BEDDING.
15. LEAK TEST PRIMARY AND SECONDARY CONTAINMENT PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, LISTING, OR NFPA 30.
  - 15.1. REVIEW TEST PROCEDURES WITH ENGINEER PRIOR TO PROCEEDING.
  - 15.2. INSTALL TEMPORARY BLINDS AT TANK AS REQUIRED.
16. REMOVE & PROPERLY DISPOSE OF FUEL OIL, ENGINE LUBRICANTS, COOLANT, ETC.

### MECHANICAL SITE PLAN — DEMOLITION

SCALE: 3/8"=1'-0" 0 1' 4'

NORTH

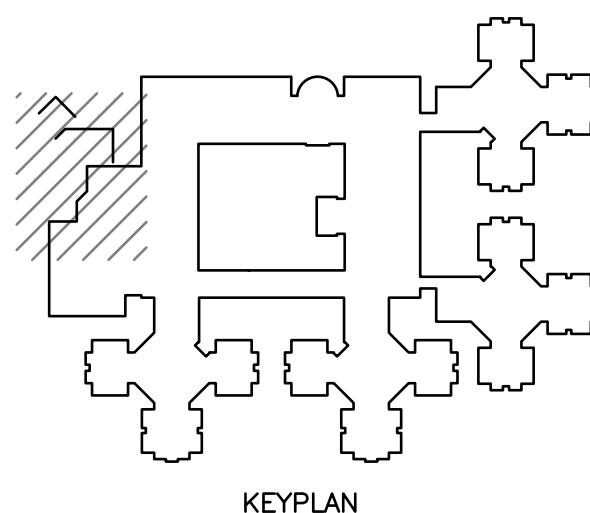
### MECHANICAL SITE PLAN — NEW WORK

SCALE: 3/8"=1'-0" 0 1' 4'

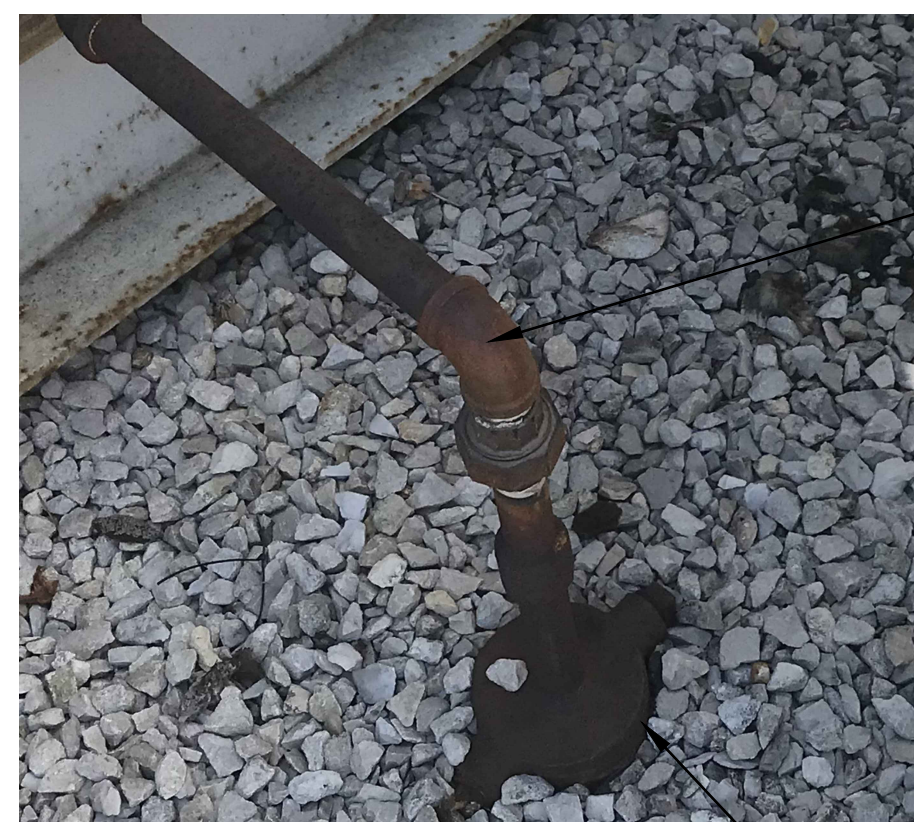
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### GENERAL NOTES:

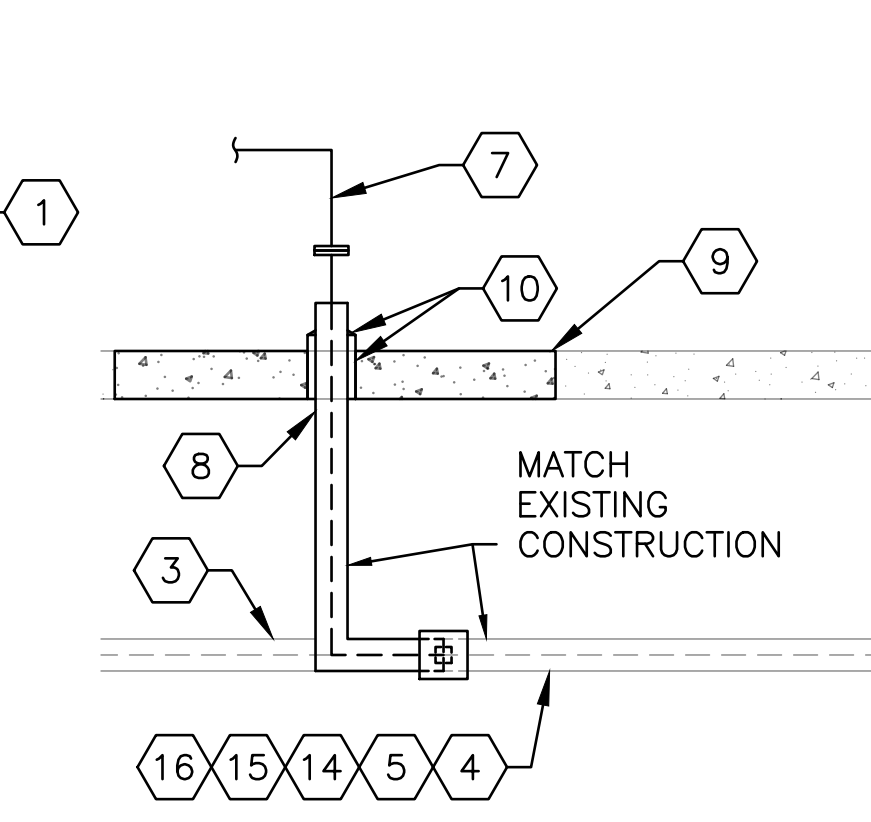
- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. COORDINATE WITH FACILITY STAFF TO PRIME ALL BOILER AND EG FUEL OIL PUMPS AFTER CONSTRUCTION IS COMPLETE.



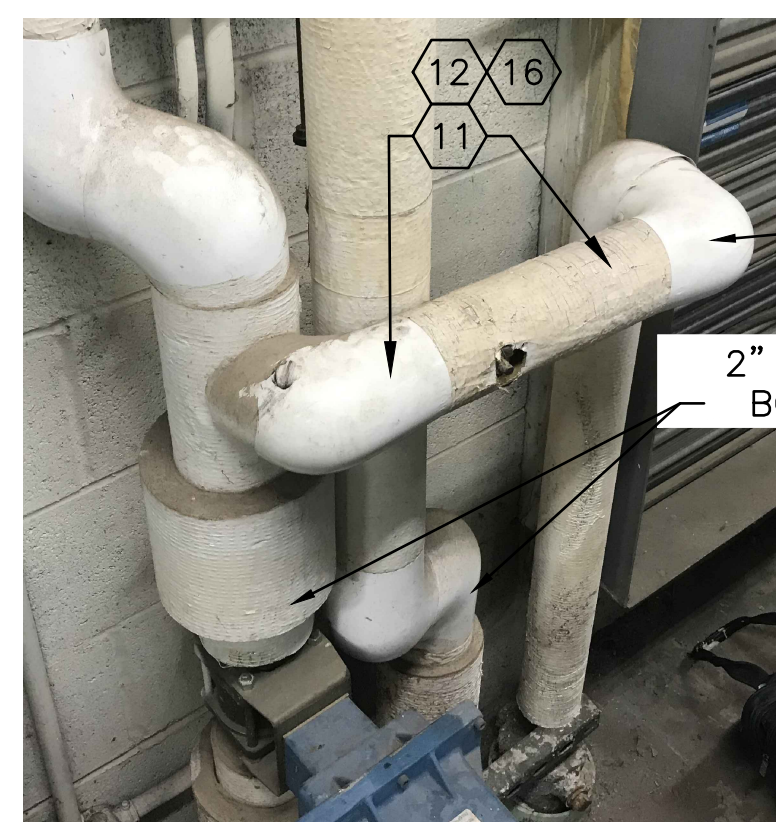
D201  
MS102  
SCALE: NTS  
DETAIL-EXIST FOR



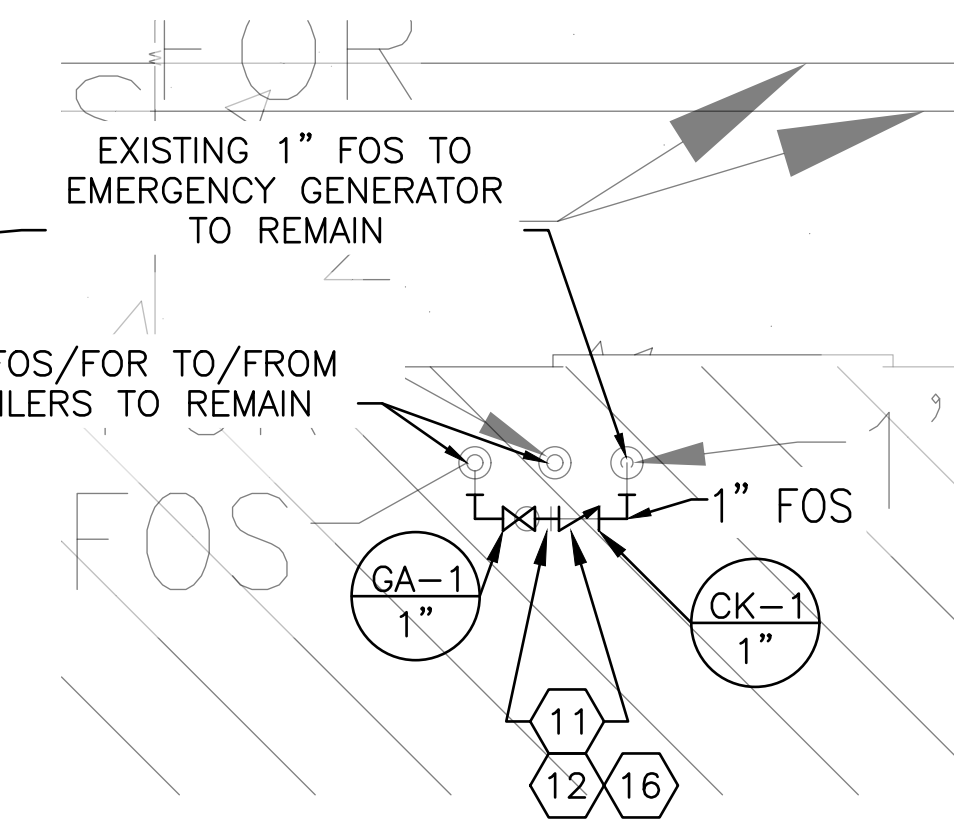
D202  
MS102  
SCALE: NTS  
DETAIL-EXIST FOS



D203  
MS102  
SCALE: NTS  
DETAIL-NEW FOR FROM EG



D204  
MS102  
SCALE: NTS  
DETAIL-EXIST FOS TO EG

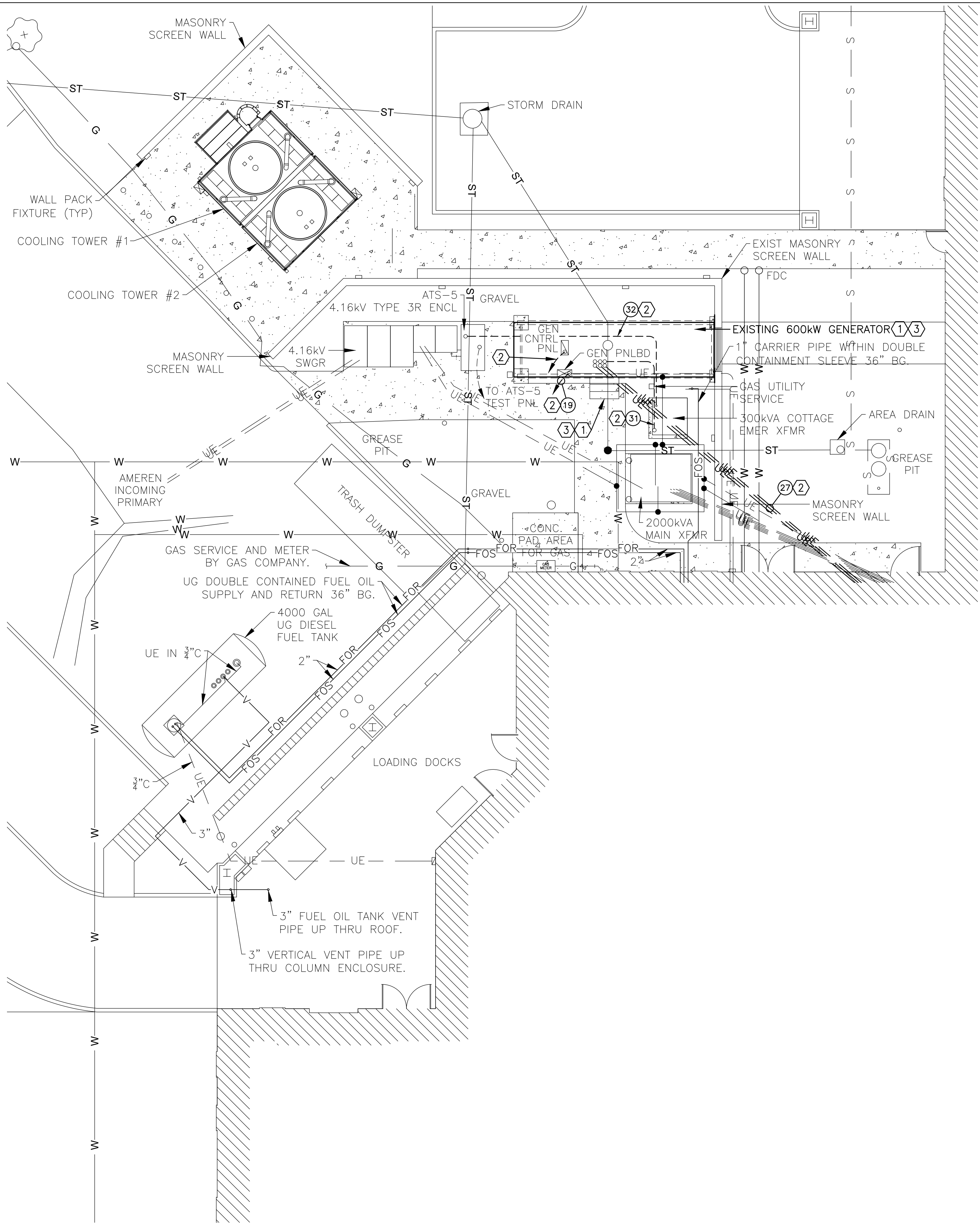


D205  
MS102  
SCALE: NTS  
DETAIL-NEW FOS VALVES









GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE FEEDER SCHEDULE ON DWG ED-601.
- C. SEE DWG ED-101 FOR BLDG ELEC DEMO PLAN.

KEY NOTES:

- 1. EXIST ITEM(S) TO BE REMOVED.
- 2. REMOVE CONDUCTORS FROM EXIST CONDUIT(S). CONDUIT(S) TO REMAIN.
- 3. SALVAGE AND TURN OVER TO OWNER PER SPECIFICATION SECTION 260505.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BARRY D. FREINER  
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MO # E-24220  
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PROJECT # M1908-01  
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FACILITY # 6517335013

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ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013- ES-101.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

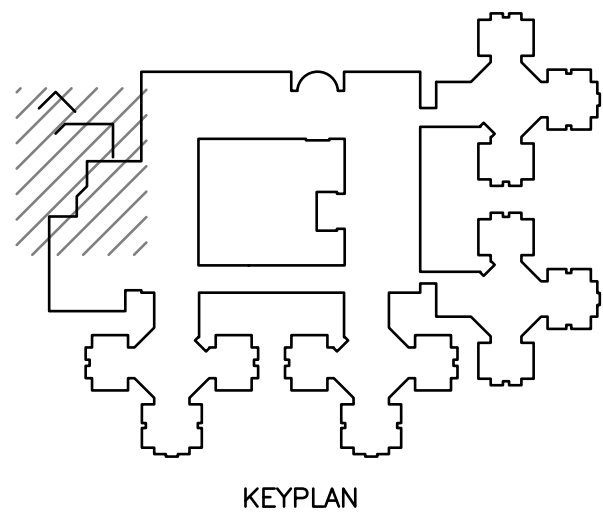
SHEET TITLE:  
ELECTRICAL SITE  
PLAN -  
DEMOLITION

SHEET NUMBER:

ES-101

09 OF 26 SHEETS  
JUNE 22, 2022

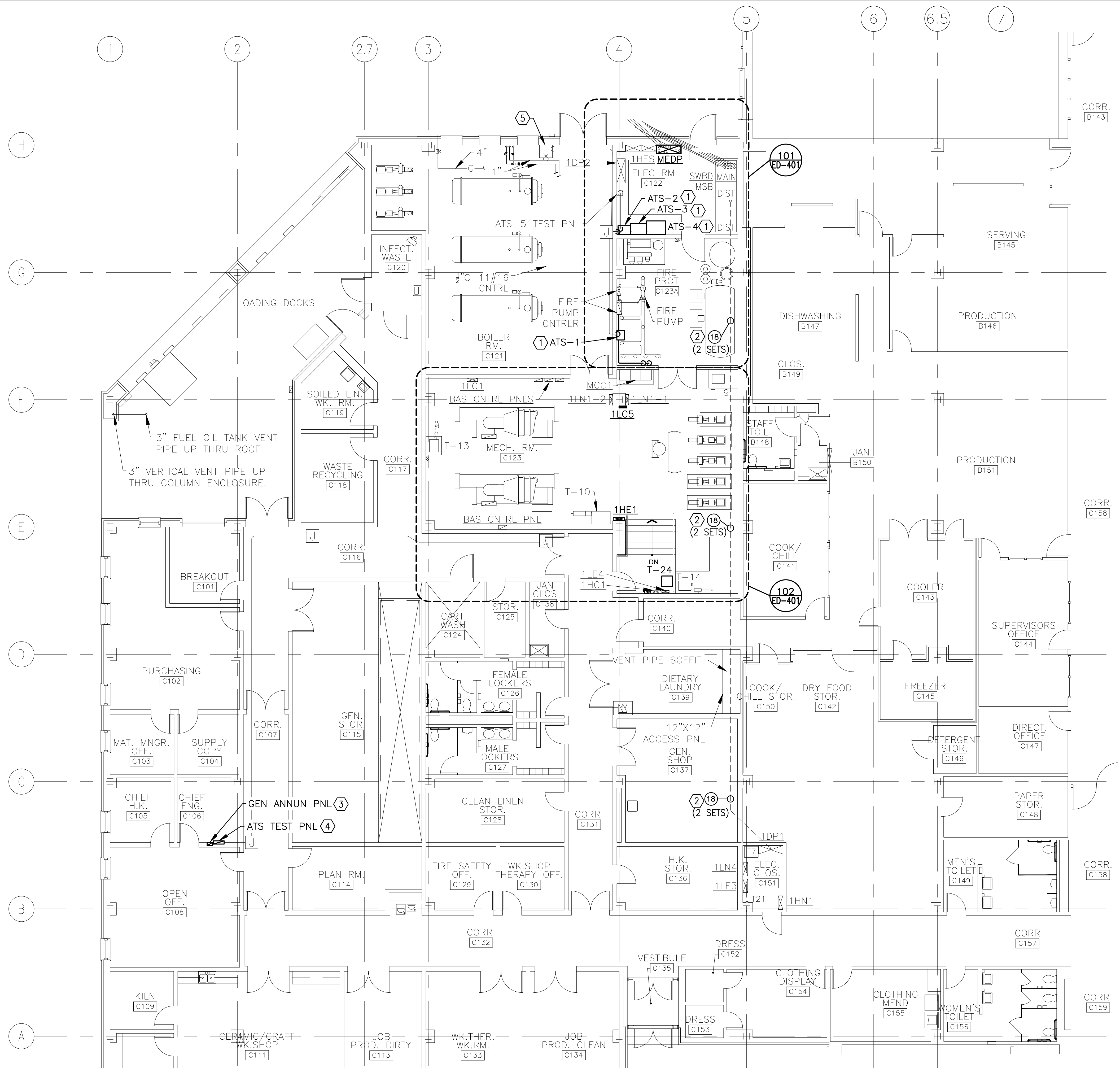
ELECTRICAL SITE DEMOLITION PLAN  
SCALE: 1/8"=1'-0"











GENERAL NOTES:

- A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- B. SEE FEEDER SCHEDULE ON DWG ED-601.

KEY NOTES:

1. EXIST ITEM(S) TO BE REMOVED.
2. REMOVE CONDUCTORS FROM EXIST CONDUIT(S). CONDUIT(S) TO REMAIN.
3. REMOVE EXIST GRAP & EPO STATION. PATCH GYPSUM BOARD AND PAINT TO MATCH EXIST.
4. REMOVE EXIST REMOTE CNTRL PNL FOR EXIST ATS-1, -2, -3 & -4. REMOTE TEST PNL FOR ATS-5 TO REMAIN.
5. 8"x8"x4"D CNTRL J-BOX W/ 1"C-45#16 CNTRL & 1/2"C-11#16 CNTRL IN TOP & W/ 1"C-32#16 CNTRL & 1"C-44#16 CNTRL OUT BOTTOM TO EXIST GCP.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

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ISSUE DATE: 06-22-2022

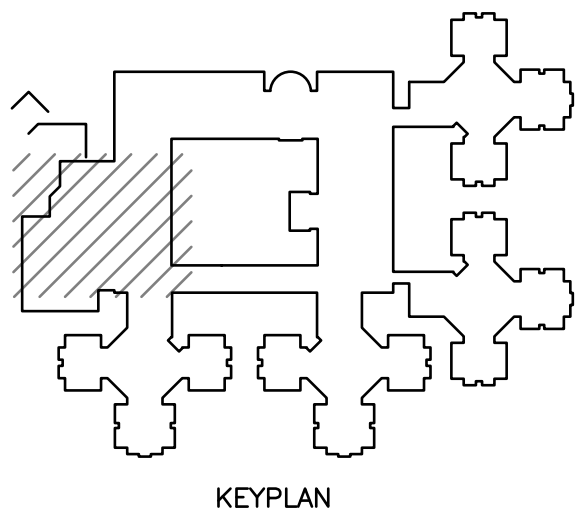
CAD DWG FILE: M1908-01-7355-  
6517335013- ED-101.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
ELECTRICAL PLAN  
- DEMOLITION

SHEET NUMBER:

ED-101

11 OF 26 SHEETS  
JUNE 22, 2022



ELECTRICAL DEMOLITION PLAN  
SCALE: 1/8"=1'-0"  
NORTH





BARRY D. FREINER  
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DEPARTMENT OF  
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REPLACE EMERGENCY  
GENERATOR,  
INFRASTRUCTURE  
ST. LOUIS FORENSIC  
TREATMENT CENTER -  
SOUTH  
5300 ARSENAL STREET  
ST. LOUIS, MO 63139

PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION:  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013-ED-401.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
ENLARGED  
ELECTRICAL  
PLANS -  
DEMOLITION

SHEET NUMBER:

ED-401

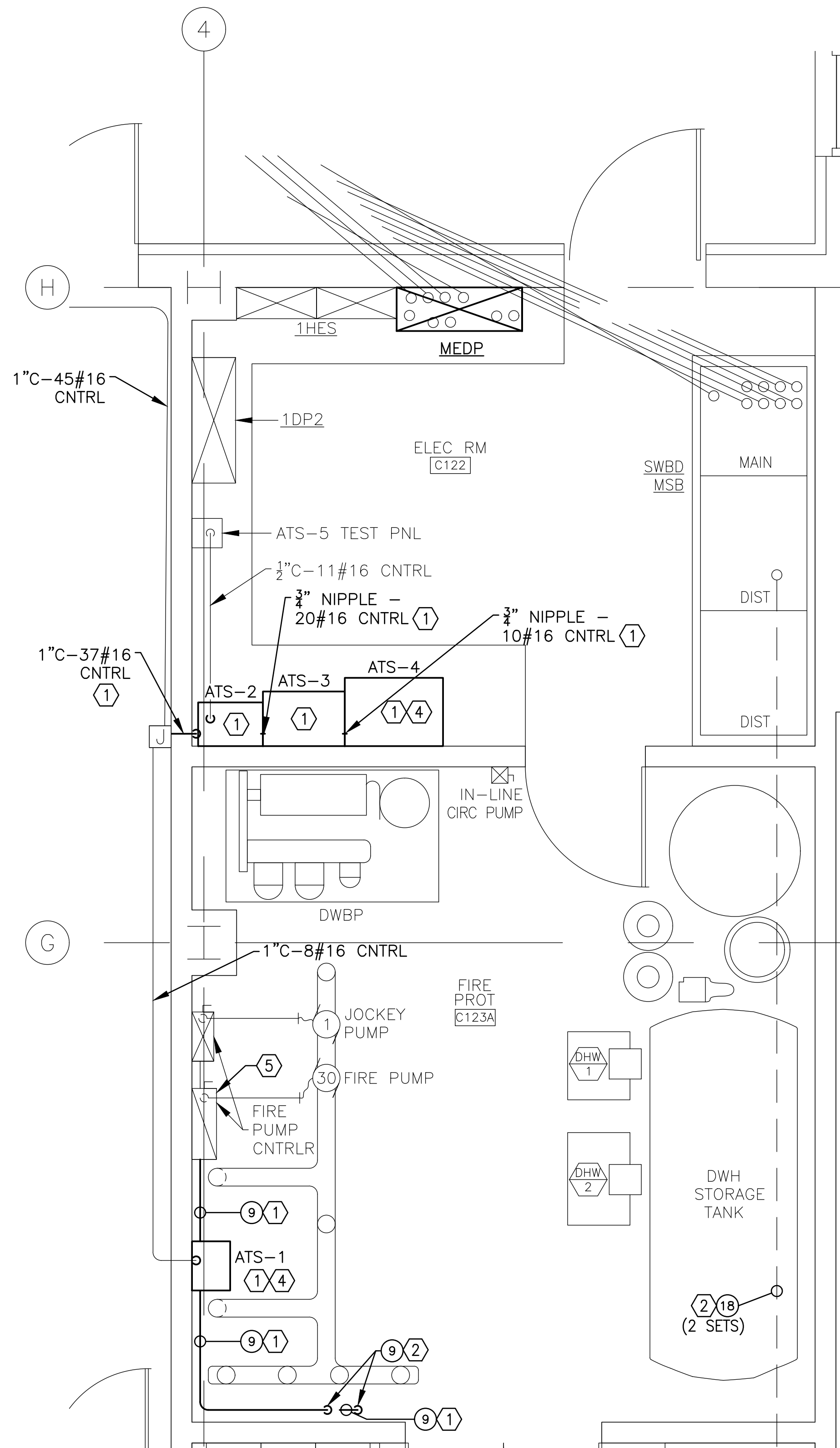
12 OF 26 SHEETS  
JUNE 22, 2022

### GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- SEE FEEDER SCHEDULE ON DWG ED-601.

### KEY NOTES:

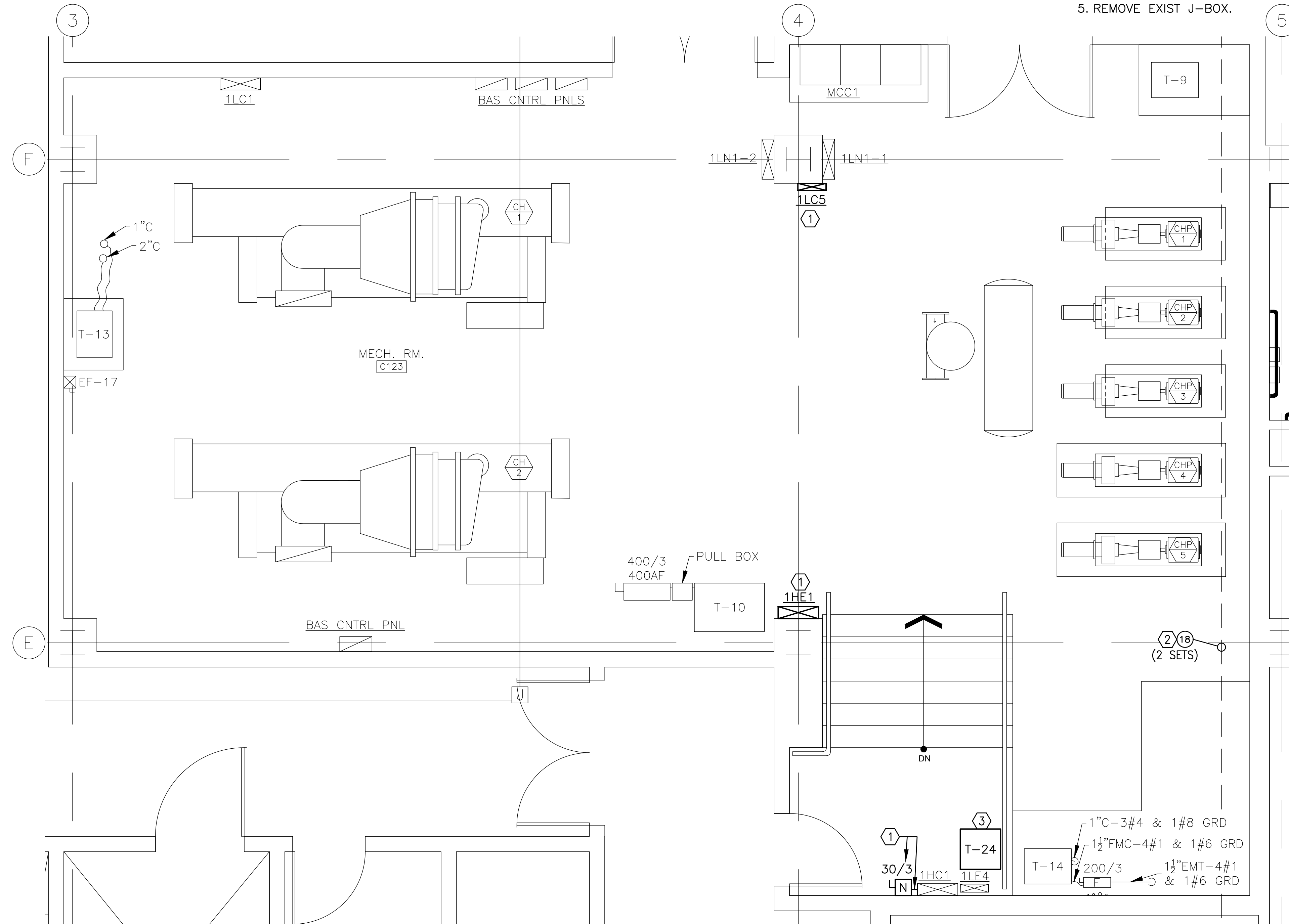
- EXIST ITEM(S) TO BE REMOVED.
- REMOVE CONDUCTORS FROM EXIST CONDUIT(S). CONDUIT(S) TO REMAIN.
- REMOVE CONDUIT & WIRING BETWEEN EXIST XFMR T-24 & EXIST PNLBD 1LE4. REMOVE CONDUCTORS FROM EXIST 1"C BETWEEN EXIST PNLBD 1HE1 & XFMR T-24 & DISCONNECT 1"C FROM XFMR T-24 TO ALLOW FOR RELOCATION OF XFMR. SEE DWG E-401.
- SALVAGE ITEM AND TURN OVER TO OWNER PER SPECIFICATION SECTION 260505.
- REMOVE EXIST J-BOX.



ENLARGED ELECTRICAL DEMOLITION PLAN

— ELEC RM & FIRE PROTECTION RM

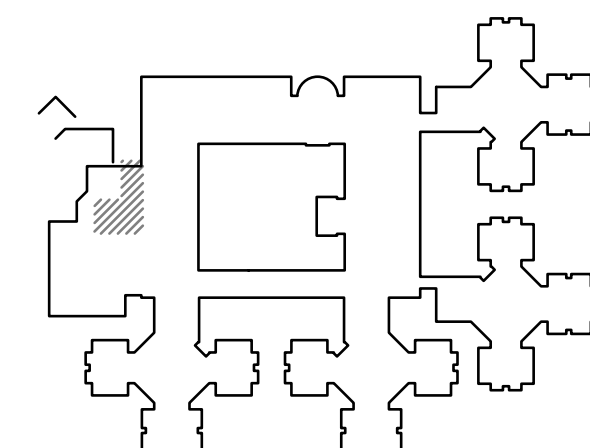
101  
ED-401  
SCALE: 3/8" = 1'-0"



102  
ED-401  
SCALE: 3/8" = 1'-0"

ENLARGED ELECTRICAL DEMOLITION PLAN — MECH RM

0 2' 6'



KEYPLAN



- ① 3-500KCM, 1#3 GRD, 3°C
- ② 4-500KCM, 1#3 GRD, 4°C
- ③ 3#4, 1#8 GRD, 1°C
- ④ 3#10, 1#10 GRD, 3/4°C
- ⑤ 3#6, 1#10 GRD, 1°C
- ⑥ 3#8, 1#10 GRD, 3/4°C
- ⑦ 3#12, 1#12 GRD, 3/4°C
- ⑧ 2#6, 1#10 GRD, 3/4°C
- ⑨ 3#2/0, 1#6 GRD, 2°C
- ⑩ 3#2, 1#6 GRD, 1-1/2°C
- ⑪ 4#1, 1#6 GRD, 2°C OR 1-1/2°C
- ⑫ 4#4/0, 1#4 GRD, 2-1/2°C
- ⑬ 4#2/0, 1#6 GRD, 2°C
- ⑭ 4#3, 1#8 GRD, 1-1/2°C
- ⑮ 3#4/0, 1#4 GRD, 2°C
- ⑯ 2 SETS OF 3-350KCM, 1#1/0 GRD, 3°C
- ⑰ 2 SETS OF 4-500KCM, 1#3/0 GRD, 4°C
- ⑱ 4-350KCM, 1#1/0 GRD, 3°C
- ⑲ 4#6, 1#10 GRD, 1°C
- ⑳ 3#2/0, 1#1/0, 1#6 GRD, 2°C
- ㉑ 5-350KCM, 1#4 GRD, 3-1/2°C
- ㉒ 3#3, 1#8 GRD, 1°C
- ㉓ 5-500KCM, 1#3 GRD, 4°C
- ㉔ 5#4/0, 1#4 GRD, 3°C
- ㉕ 3#1, 1#6 GRD, 1-1/2°C
- ㉖ 3-350KCM, 1#1/0 GRD, 3°C
- ㉗ 3 SETS OF 4-500KCM, 1#3/0 GRD, 4°C
- ㉘ (2) 1/C 1#1 5KV, 1#6 GRD IN CABLE DUCT
- ㉙ (3) 1/C 750KCM 5KV, 5°C
- ㉚ (3) 1/C 1#1 5KV NON-SHLD, 1#6 GRD, 4°C
- ㉛ 3-500KCM, 1#1/0 GRD, 3°C
- ㉜ (3) 1/C 1#1/0 5KV NON-SHLD, 1#6 GRD

PANEL LEGEND			
FLOOR	VOLTAGE	TYPE	SEQUENCE
1	H-480Y/277 OR 480	N-NORMAL	1
2	L-208Y/120 OR 120/240	C-CRITICAL	2
		E-EMERGENCY	3



## KEY NOTES:

1. EXIST MSB HAS GROUND FAULT INDICATION AND TRIPPING ON ALL BREAKERS, EXCEPT FP CB, AND ZONE INTERLOCKING BETWEEN MAIN AND FEEDER BREAKERS.
2. EXIST MEDP HAS GROUND FAULT INDICATION AND ALARM FOR ALL CIRCUIT BREAKERS BUT BREAKERS DO NOT TRIP FOR GROUND FAULT.
3. THERE ARE (5)-225A/2P CIRCUIT BREAKERS MOUNTED IN TRANSFORMER SECONDARY WIRING COMPARTMENT FOR BUILDING FEEDS.
4. THERE IS 1 CABLE-3#4/0 W/ 1#4 GRD TYPE USE - DIRECT BURIED TO EACH COTTAGE.
5. EXIST ITEM(S) TO BE REMOVED.
6. REMOVE CONDUCTORS FROM EXIST CONDUIT(S). CONDUIT(S) TO REMAIN.
7. ILLEGIBLE NAMEPLATE.
8. NO GRD CONDUCTOR.
9. UNKNOWN LOAD AND/OR FDR.
10. REMOVE EXIST TRIP RATING PLUG AND RETURN TO OWNER.
11. REMOVE INTERIOR FROM EXIST PNLBD TO CONVERT TO A J-BOX FOR EXTENDING EXIST FDRS INTO NEW PNLBD 2HCS. SEE DWG E-602.
12. ABAND CONDUITS IN PLACE.
13. RELOCATE EXIST CB TO POSITION 5 IN THIS SWBD.
14. REMOVE 1 $\frac{1}{2}$ "C-3#1 & 1#3 NEUT.
15. REMOVE EXIST CB AND RETURN TO OWNER.
16. REMOVE 1 $\frac{1}{2}$ "C-6#6 & 1#10 GRD.
17. SALVAGE ITEM AND TURN OVER TO OWNER PER SPECIFICATION SECTION 260505.

BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

**ROGERS-SCHMIDT  
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PHONE: 636-600-1551  
MISSOURI STATE CERTIFICATE  
OF AUTHORITY #000408**

**OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION**

DEPARTMENT OF  
MENTAL HEALTH

REPLACE EMERGENCY  
GENERATOR,  
INFRASTRUCTURE  
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ST. LOUIS, MO 63139

PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-6517335013-ED-601.DWG

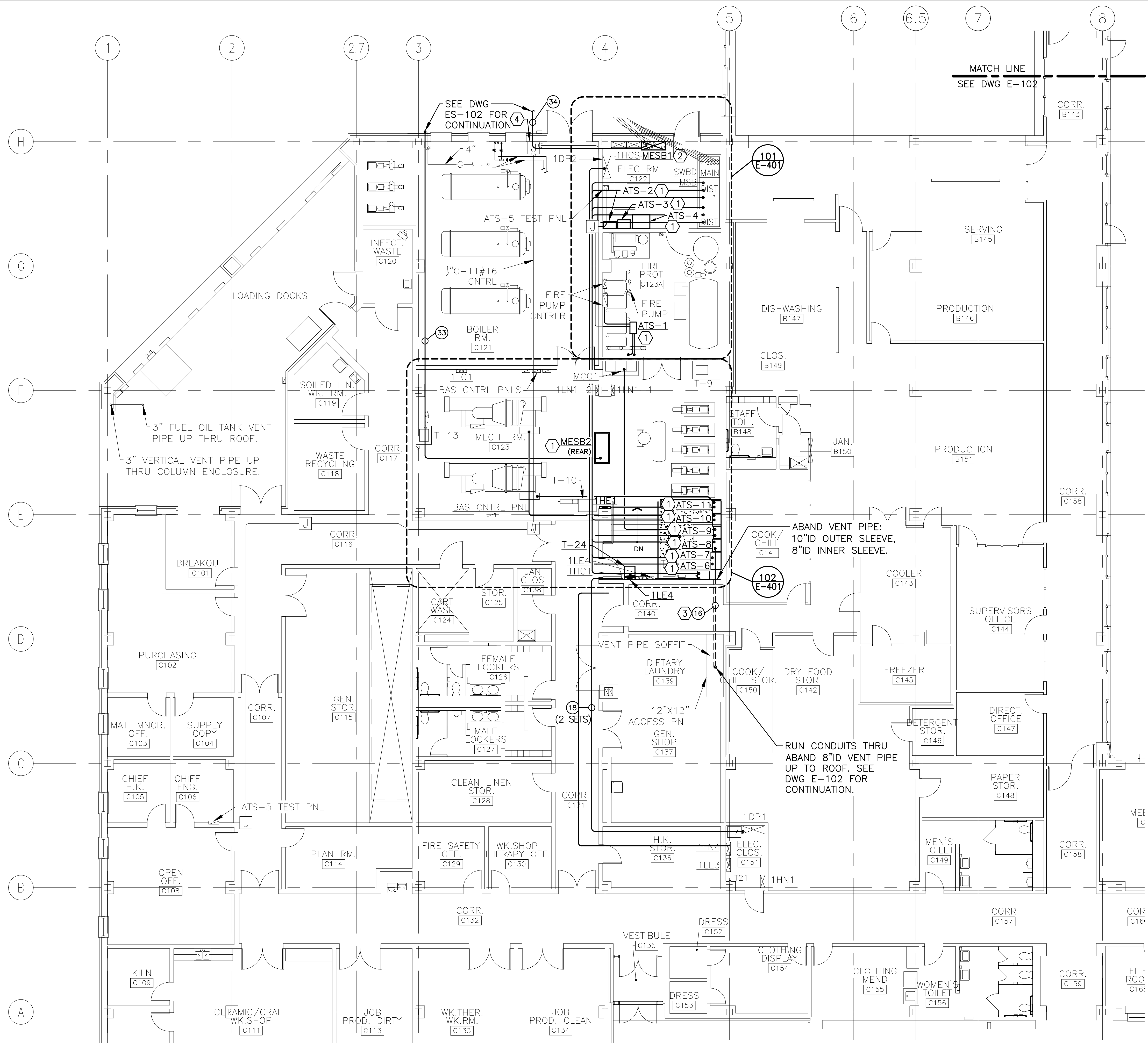
DRAWN BY:	K E T
CHECKED BY:	B D F
DESIGNED BY:	B D F

SHEET TITLE:  
ONE-LINE  
DIAGRAM -  
DEMOLITION

SHEET NUMBER:

ED-601





GENERAL NOTES:

A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.

B. SEE FEEDER SCHEDULE ON DWGS E-601 & E-602.

C. ANY SPRAY-APPLIED FIRE-RESISTIVE MATERIALS REMOVED FROM STRUCTURAL MEMBERS IN EXECUTION OF THIS PROJECT MUST BE REPAIRED BY A MANUFACTURER APPROVED AND LICENSED CONTRACTOR OR NFCA ACCREDITED CONTRACTOR USING THE SAME OR COMPATIBLE MATERIALS TO MAINTAIN THE APPROVED UL DESIGN AND FIRE RESISTANCE RATING OF THE EXISTING BUILDING.

KEY NOTES:

1. PROVIDE NEW ELECT EQUIP PER DIVISION 26 SPECIFICATIONS.

2. MODIFY EXIST EQUIP PER DWG E-602.

3. RUN CONDUITS THRU ABAND 8"ID VENT PIPE.

4. EXIST 8"x8"x4"D CNTRL J-BOX AND ALL ASSOC CONDUITS TO REMAIN FOR USE FOR CONTROL WIRING FOR NEW GENERATOR. SEE DWG ED-101. AUTO START CKT FOR FP ATS MUST BE RUN IN A DEDICATED CONDUIT, WITH NO OTHER WIRING, TO THE GCP. SEE DWG E-401.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR

STATE OF MISSOURI  
BARRY D. FREINER  
REGISTERED PROFESSIONAL ENGINEER  
MO # E-24220  
6-22-22

BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

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PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013


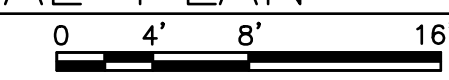
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DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-6517335013-E-101.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
ELECTRICAL PLAN  
- FIRST FLOOR -  
AREA C

SHEET NUMBER:  
E-101  
14 OF 26 SHEETS  
JUNE 22, 2022

KEYPLAN

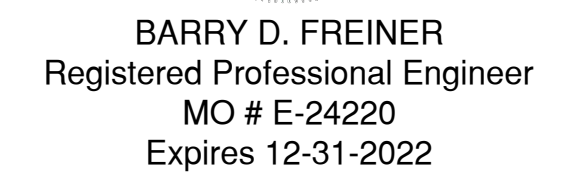
 **ELECTRICAL PLAN – FIRST FLOOR – AREA C**  
SCALE: 1/8"=1'-0" 



A. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.

B. ANY SPRAY-APPLIED FIRE-RESISTIVE MATERIALS REMOVED FROM STRUCTURAL MEMBERS IN EXECUTION OF THIS PROJECT MUST BE REPAIRED BY A MANUFACTURER APPROVED AND LICENSED CONTRACTOR OR NFCA ACCREDITED CONTRACTOR USING THE SAME OR COMPATIBLE MATERIALS TO MAINTAIN THE APPROVED UL DESIGN AND FIRE RESISTANCE RATING OF THE EXISTING BUILDING.

1. 1" C-4#14 (1 RED & 3 BLACK) & 1  
CABLE (BELDEN #9842) TO GCP.  
ROUTE ABOVE SUSPENDED CEILING.  
SEE DWG ES-102.



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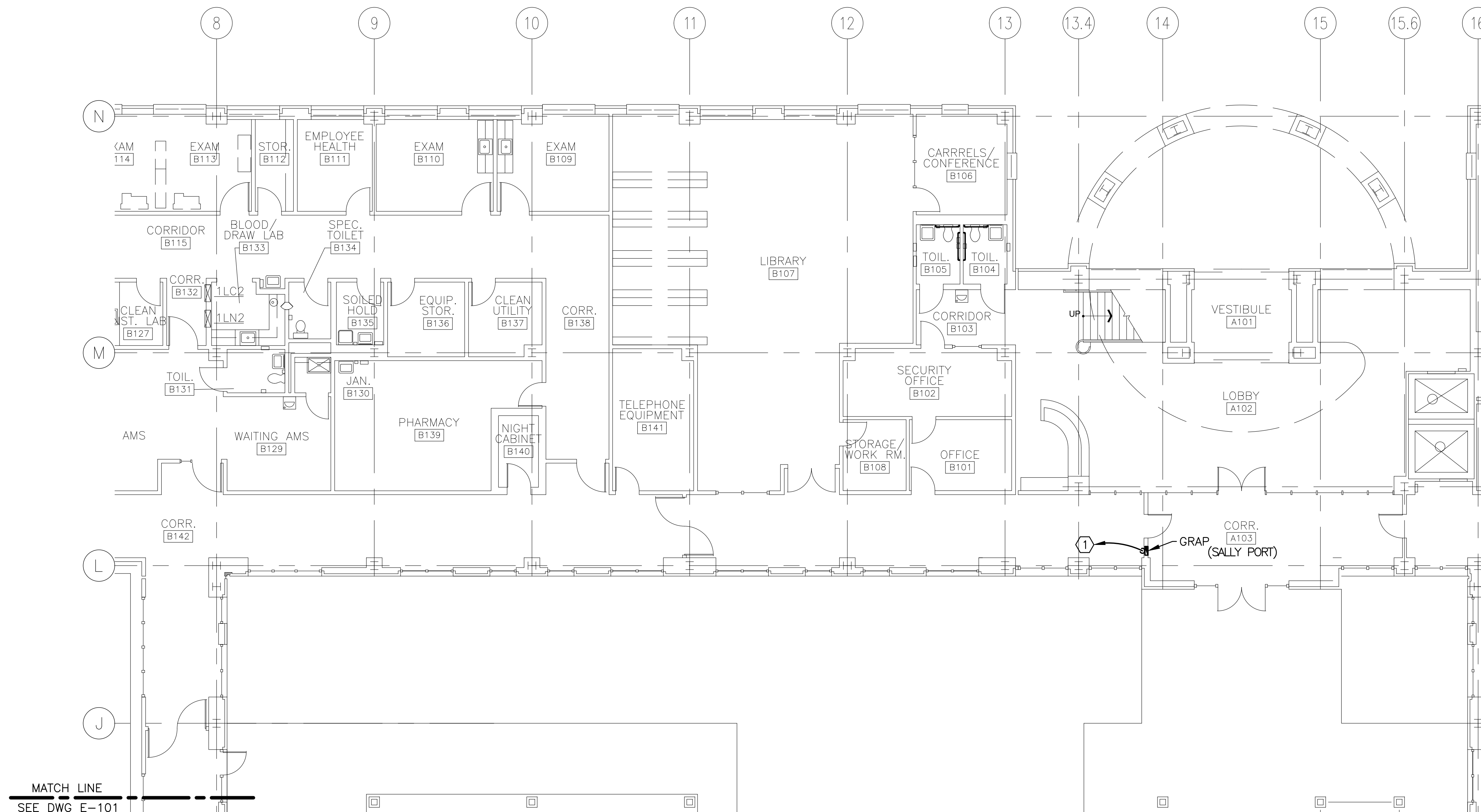
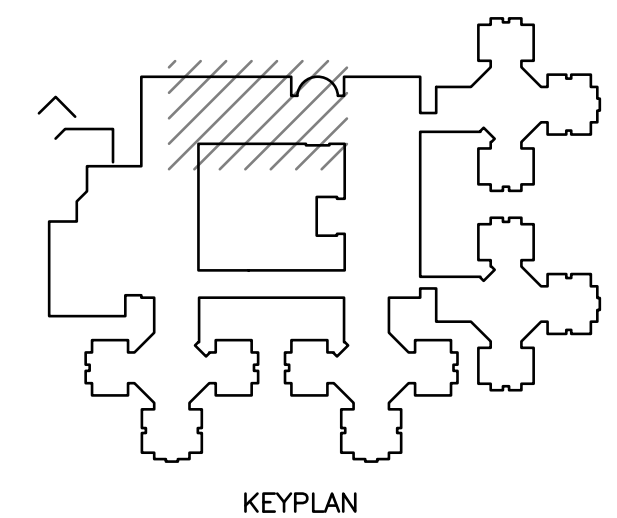
REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_



CAD DWG FILE: M1908-01-7355-6517335013-E-102.DWG

DRAWN BY:	K E T
CHECKED BY:	B D F
DESIGNED BY:	B D F

SHEET NUMBER:

15 OF 26 SHEETS  
JUNE 22, 2022



 ELECTRICAL PLAN — FIRST FLOOR — AREA B  
SCALE: 1/8"=1'-0" 





BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

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MISSOURI STATE CERTIFICATE  
OF AUTHORITY #000408

## GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- SEE FEEDER SCHEDULE ON DWGS E-601 & E-602.
- ANY SPRAY-APPLIED FIRE-RESISTIVE MATERIALS REMOVED FROM STRUCTURAL MEMBERS IN EXECUTION OF THIS PROJECT MUST BE REPAIRED BY A MANUFACTURER APPROVED AND LICENSED CONTRACTOR OR NFCA ACCREDITED CONTRACTOR USING THE SAME OR COMPATIBLE MATERIALS TO MAINTAIN THE APPROVED UL DESIGN AND FIRE RESISTANCE RATING OF THE EXISTING BUILDING.
- PROTECT THE ROOF AS REQUIRED DURING CONSTRUCTION SO AS NOT TO VOID THE ROOF WARRANTY. COORDINATE WITH ROOFING CONTRACTOR FOR PROTECTION REQUIREMENTS.

## KEY NOTES:

- PROVIDE LINK SEAL AT CONDUIT PENETRATION THROUGH WALL.
- PROVIDE ROOF TOP CONDUIT SUPPORTS IN ACCORDANCE WITH SPECIFICATION 260529 EVERY 10' AND WITHIN 3' OF ALL BLDG PENETRATIONS. HEIGHT OF CONDUIT ABOVE ROOF SHALL BE 1'-0" TO BOTTOM OF CONDUIT.
- CONDUIT SUPPORT SHALL BE FURNISHED AND INSTALLED AS REQUIRED TO MAINTAIN EXISTING ROOF WARRANTY. SUPPORTS AND INSTALLATION SHALL BE REVIEWED AND APPROVED BY ROOFING CONTRACTOR. COORDINATE AS REQUIRED.
- PROVIDE CONDUIT EXPANSION FITTING IN EACH CONDUIT IN ACCORDANCE WITH SPECIFICATION 260533.13.
- PROVIDE WEATHERTIGHT FLASHING FOR TOP OF EXIST ABAND 8"ID VENT PIPE AT PULL BOX INTERFACE.
- PROVIDE LB FITTING IN EACH CONDUIT. CONDUITS SHALL PENETRATE ROOF AND PASS THRU EXTERIOR OVERHANG SOFFIT SPACE. SEE ROOF PENETRATION DETAIL ON DWG E-501.
- EXIST FIRESTONE ROOFING SYSTEM IS UNDER WARRANTY. A FIRESTONE CERTIFIED ROOFING CONTRACTOR SHALL COMPLETE ROOFING WORK AS REQD TO MAINTAIN THE EXIST WARRANTY.

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PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION:  
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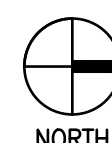
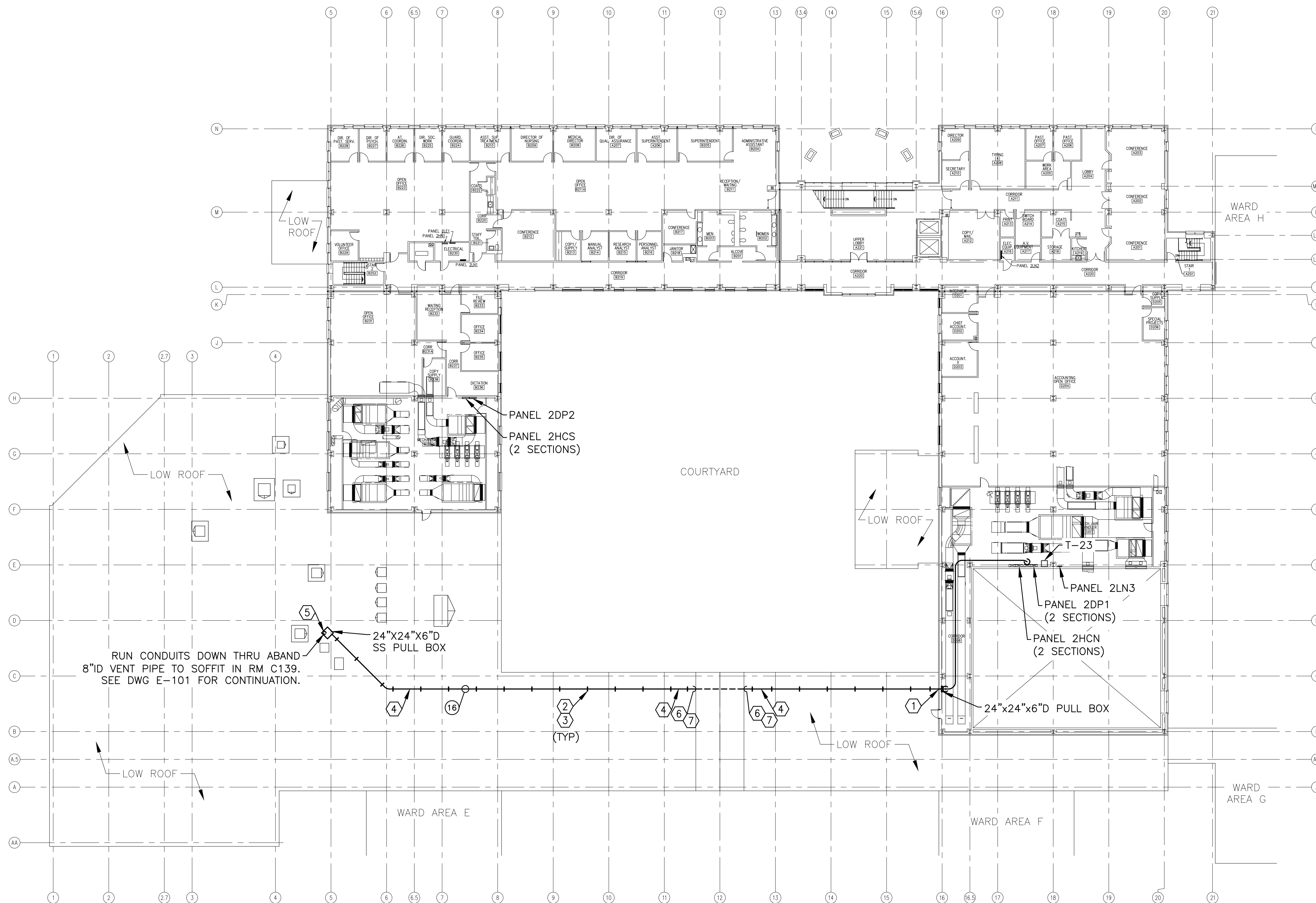
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6517335013-E-103.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
ELECTRICAL PLAN  
- SECOND FLOOR

SHEET NUMBER:

E-103

16 OF 26 SHEETS  
JUNE 22, 2022



ELECTRICAL PLAN - SECOND FLOOR

SCALE: 1"=20'-0"

0 10' 20' 40'



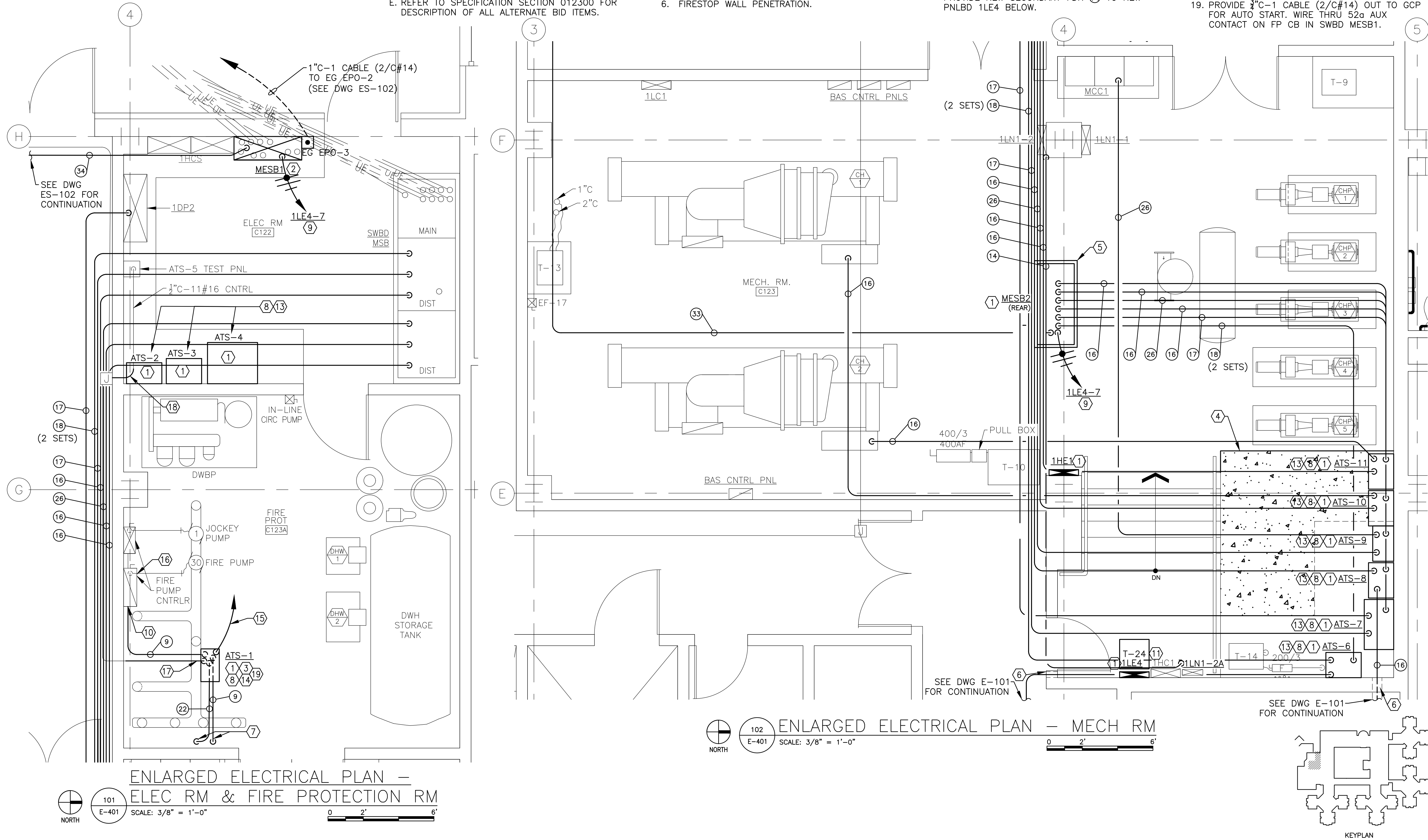
## GENERAL NOTES:

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING.
- SEE FEEDER SCHEDULE ON DWGS E-601 & E-602.
- ANY SPRAY-APPLIED FIRE-RESISTIVE MATERIALS REMOVED FROM STRUCTURAL MEMBERS IN EXECUTION OF THIS PROJECT MUST BE REPAIRED BY A MANUFACTURER APPROVED AND LICENSED CONTRACTOR OR NFCA ACCREDITED CONTRACTOR USING THE SAME OR COMPATIBLE MATERIALS TO MAINTAIN THE APPROVED UL DESIGN AND FIRE RESISTANCE RATING OF THE EXISTING BUILDING.
- ALL CONDUIT CONNECTIONS TO FPATS, FP CONTROLLER & FP CONTROLLER J-BOX MUST BE WITH GROUNDING TYPE THREADED CONDUIT HUBS.
- REFER TO SPECIFICATION SECTION 012300 FOR DESCRIPTION OF ALL ALTERNATE BID ITEMS.

## KEY NOTES:

- PROVIDE NEW ELECT EQUIP PER DIV 26 SPECIFICATIONS.
- MODIFY EXIST EQUIP PER DWG E-602 & PROVIDE 1" C-1 CABLE (2/C#16) TO BAS CNTRL PNL TO INDICATE WHEN THE ATS-1 CB IS OPEN.
- BOLT ENCLOSURE LEGS TO CONC FLOOR. PROVIDE U-STRUT SUPPORT RACK IF/AS REQD BY EQUIP MANUFACTURER.
- PROVIDE CONCRETE TO MATCH ELEVATION OF EXIST CONCRETE HOUSEKEEPING PAD (APPROX 3 1/2" H) SHOWN BY DASHED LINE.
- 3/4" H CONC HOUSEKEEPING PAD W/ 1" CHAMFERED EDGE.
- FIRESTOP WALL PENETRATION.
- EXTEND EXIST 2" C TO NEW ATS-1.
- PROVIDE COMMUNICATIONS MODULE & CAT 6 ETHERNET CABLE IN 3/2" C FROM ATSS TO BAS CNTRL PNL IN RM C123 TO ALLOW FOR MONITORING THE STATUS OF EACH ATS WITH THE EXIST NIAGARA BAS. PROVIDE A GRAPHIC SCREEN SHOWING ALL ATS's AND A SCREEN FOR EACH INDIVIDUAL ATS.
- ALT BID NO. 1: 120VAC FOR CB SHUNT TRIP UNITS.
- RUN FDR THRU NEW J-BOX BELOW EXIST FP CONTROLLER.
- RELOCATE EXIST XFMR T-24 TO NEW U-STRUT WALL RACK ABOVE NEW PNLBD 1LE4. XFMR SHALL BE 7'-6" AFF TO BOTTOM & 6" OFF WALL TO BACK. REWORK EXIST FDR 3 CONDUIT FROM PNLBD 1HE1 TO T-24 & PROVIDE NEW SECONDARY FDR 1 TO NEW PNLBD 1LE4 BELOW.

- PROVIDE NEW 70A/3P CB AT POSITIONS 26/28/30 TO MATCH EXIST.
- PROVIDE 3/2" C-1 CABLE (2/C#14) BETWEEN EACH ATS AND OUT TO GCP FOR AUTO START.
- ALL CONDUITS SHALL CONNECT TO BOTTOM OF ENCLOSURE AT LOCATION INDICATED ON THE EQUIP DWGS.
- 1" C-2 CABLES (2/C#14) TO FP CB IN MESB1.
- PROVIDE 12"X12"X6"D NEMA 4 J-BOX BELOW FP CONTROLLER. LOCATE SUCH THAT COVER IS READILY ACCESSIBLE FOR REMOVAL.
- EXTEND EXIST CNTRL CONDUIT INTO NEW FPATS.
- REWORK EXIST CONDUIT & WIRING TO CONNECT DIRECTLY TO EXIST J-BOX.
- PROVIDE 3/2" C-1 CABLE (2/C#14) OUT TO GCP FOR AUTO START. WIRE THRU 52a AUX CONTACT ON FP CB IN SWBD MESB1.



STATE OF MISSOURI  
MICHAEL L. PARSON,  
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BARRY D. FREINER  
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Expires 12-31-2022

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PROJECT # M1908-01  
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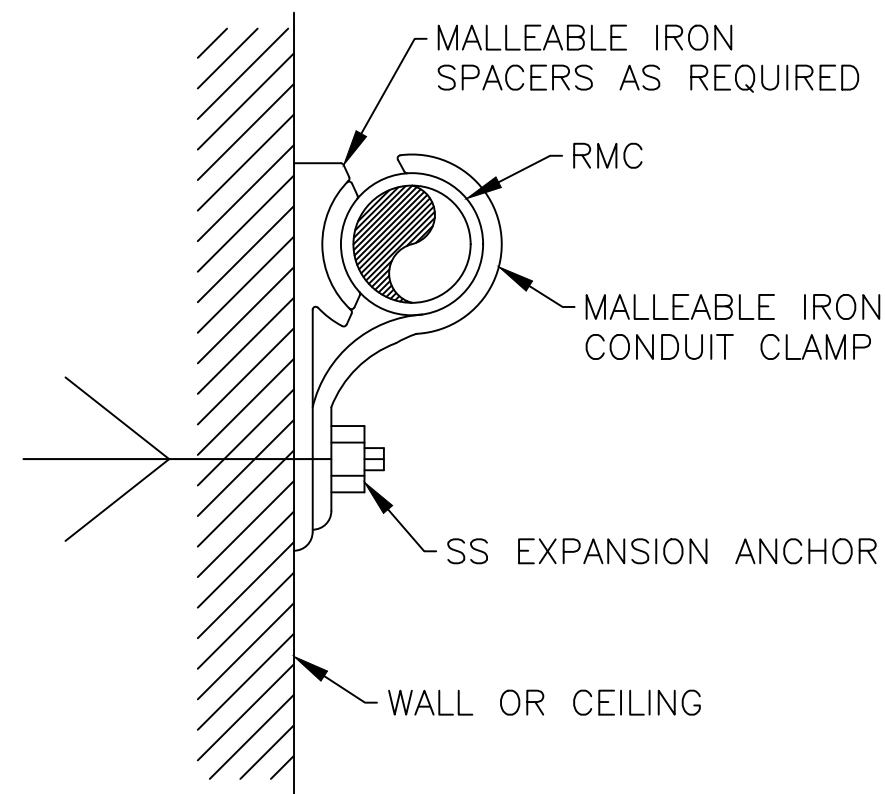
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ELECTRICAL  
PLANS - FIRST  
FLOOR

SHEET NUMBER:

E-401

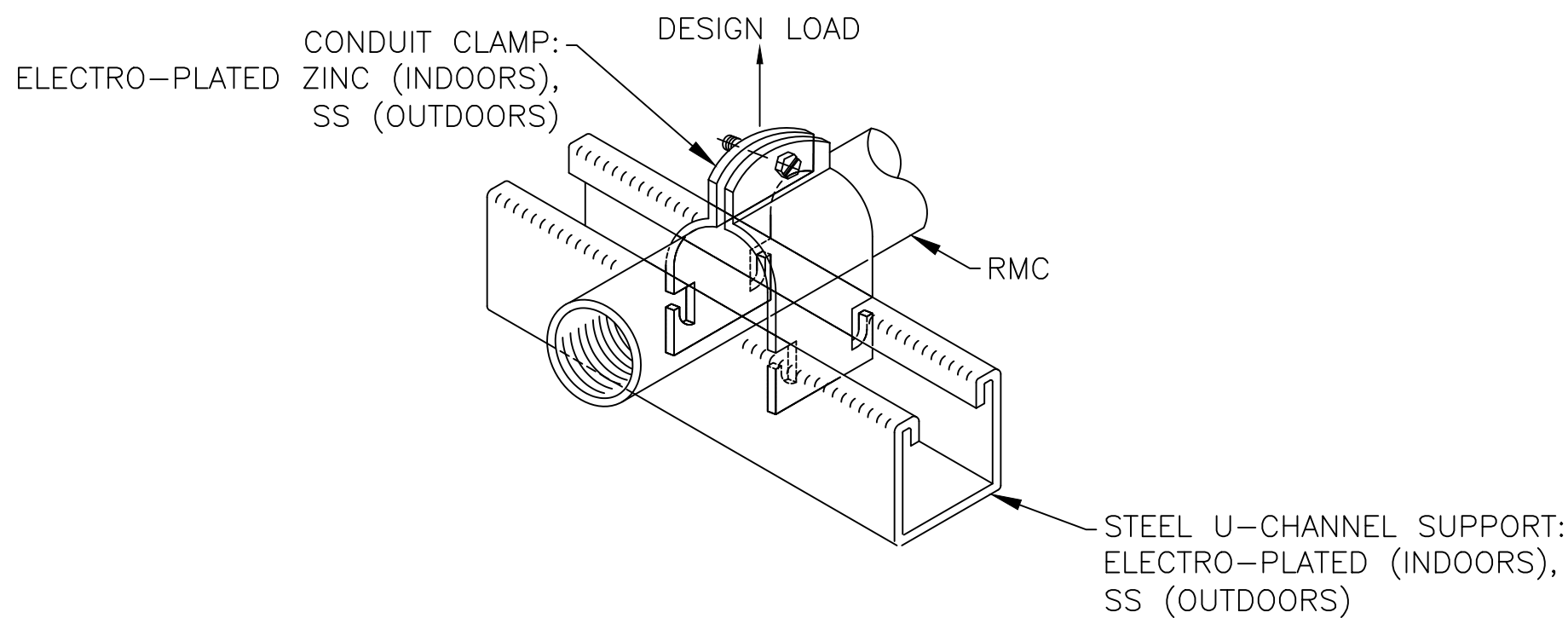
17 OF 26 SHEETS  
JUNE 22, 2022





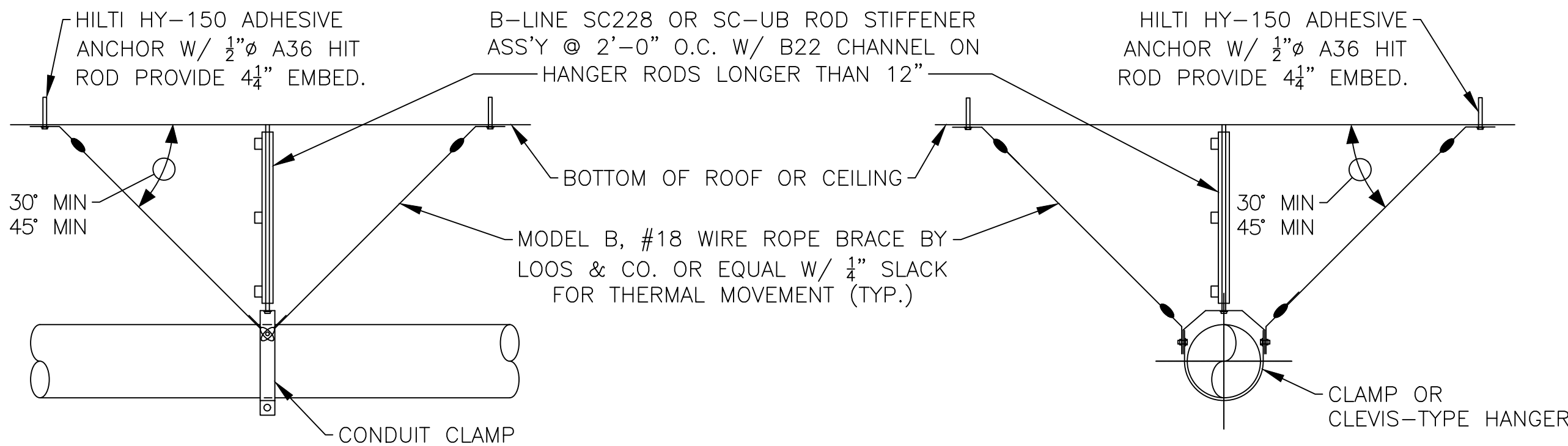
CONCRETE/MASONRY WALL/CEILING  
CONDUIT MOUNTING DETAIL

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E-501  
NO SCALE



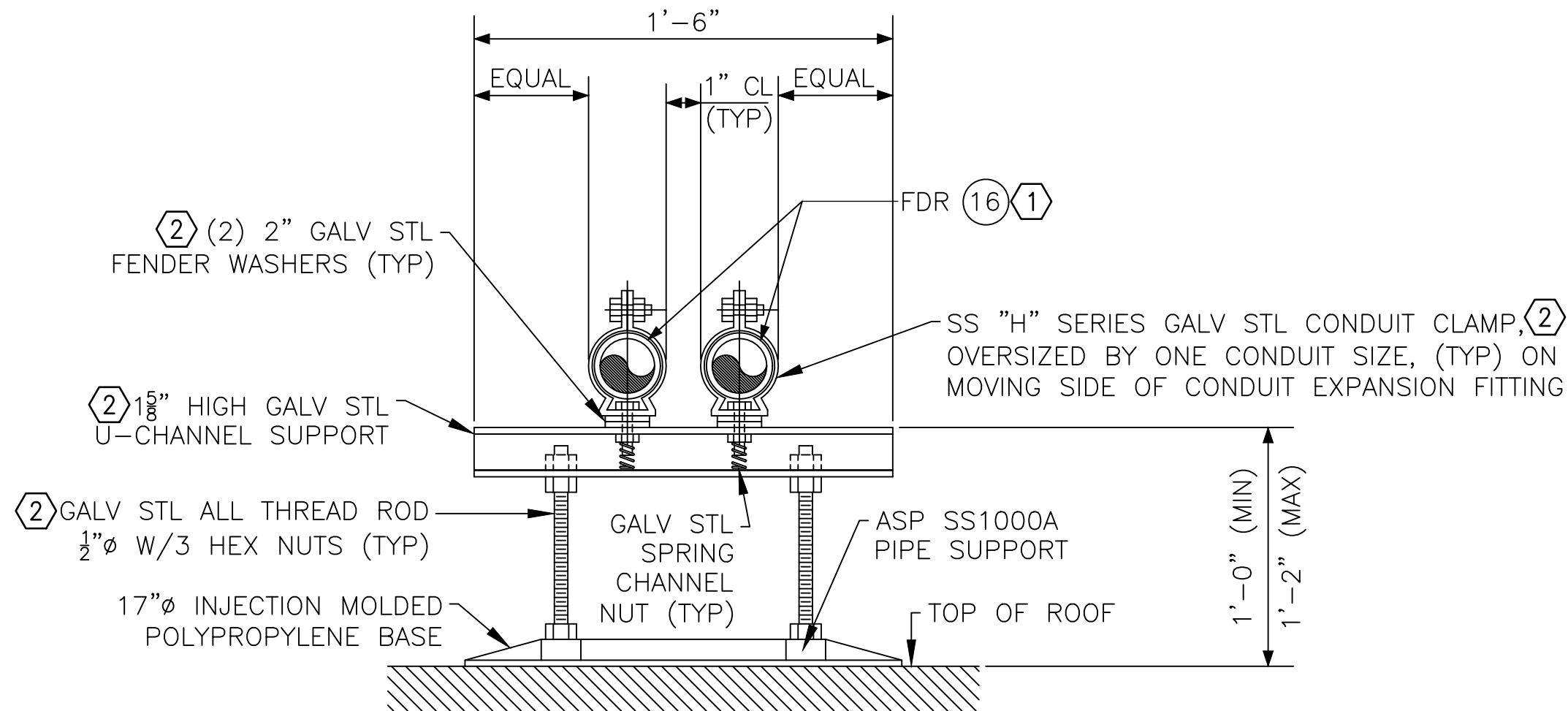
U-CHANNEL CONDUIT  
SUPPORT MOUNTING DETAIL

102  
E-501  
NO SCALE



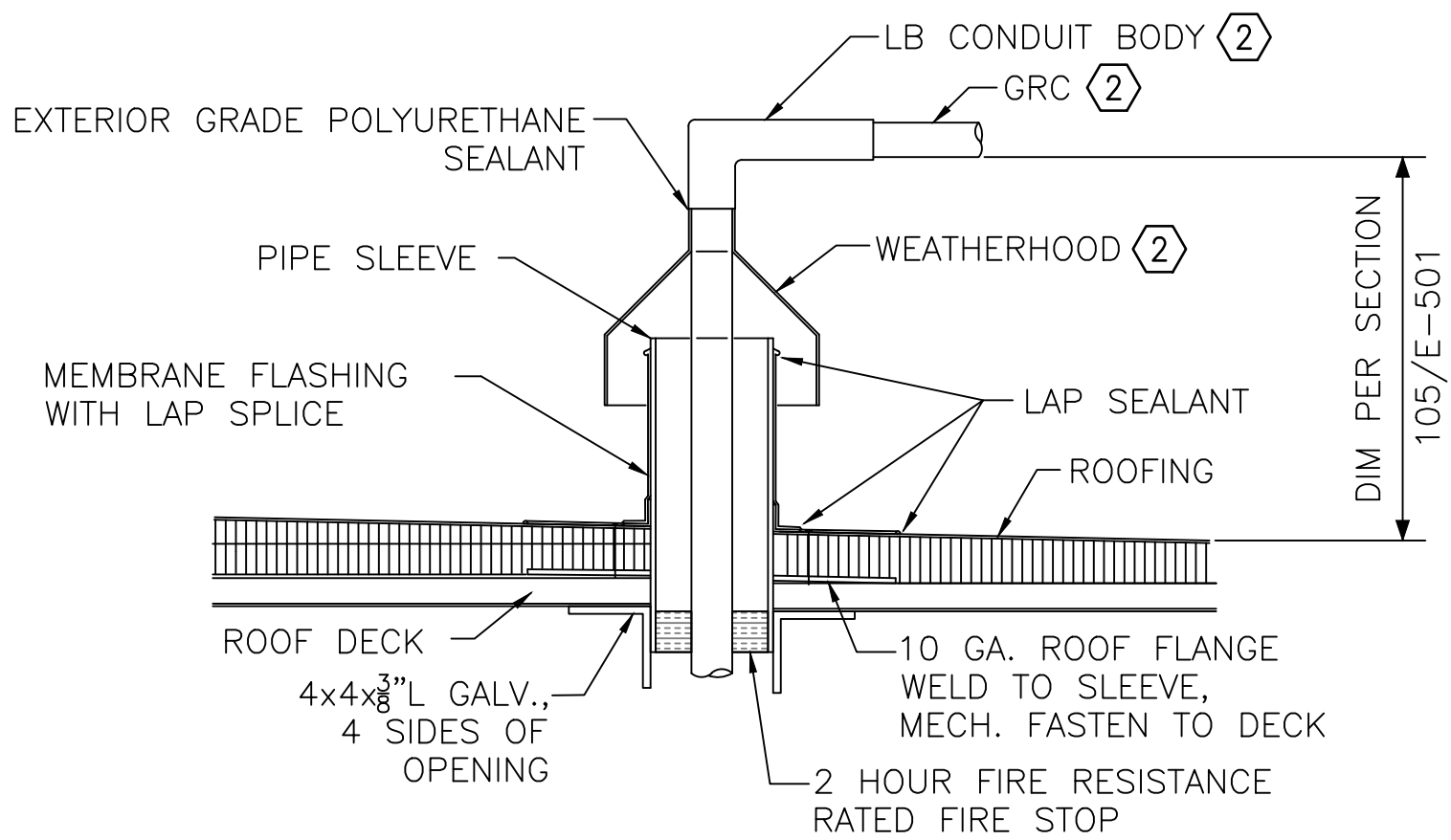
TYPICAL LONGITUDINAL  
CONDUIT BRACING DETAIL

103  
E-501  
NO SCALE



SECTION

105  
E-501  
NO SCALE



CONDUIT ROOF PENETRATION

106  
E-501  
NO SCALE

TYPICAL TANSVERSE  
CONDUIT BRACING DETAIL

104  
E-501  
NO SCALE

## GENERAL NOTES:

1. SEISMIC CONDUIT BRACING REQUIREMENTS ARE IN ADDITION TO NORMAL CONDUIT SUPPORT REQUIREMENTS OF SPECIFICATION SECTION 16190.
2. CONDUITS SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (LATEST EDITION).

## KEY NOTES:

1. SEE FEEDER SCHEDULE ON DWG E-601.
2. PAINT PER SPECIFICATION SECTION 099100.
3. CONDUIT ROOF PENETRATION SUBJECT TO APPROVAL OF THE FIRESTONE CERTIFIED ROOFING CONTRACTOR.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BARRY D. FREINER  
Registered Professional Engineer  
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MENTAL HEALTH

REPLACE EMERGENCY  
GENERATOR,  
INFRASTRUCTURE  
ST. LOUIS FORENSIC  
TREATMENT CENTER -  
SOUTH  
5300 ARSENAL STREET  
ST. LOUIS, MO 63139

PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013-E-501.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
ELECTRICAL  
DETAILS

SHEET NUMBER:

E-501

18 OF 26 SHEETS  
JUNE 22, 2022

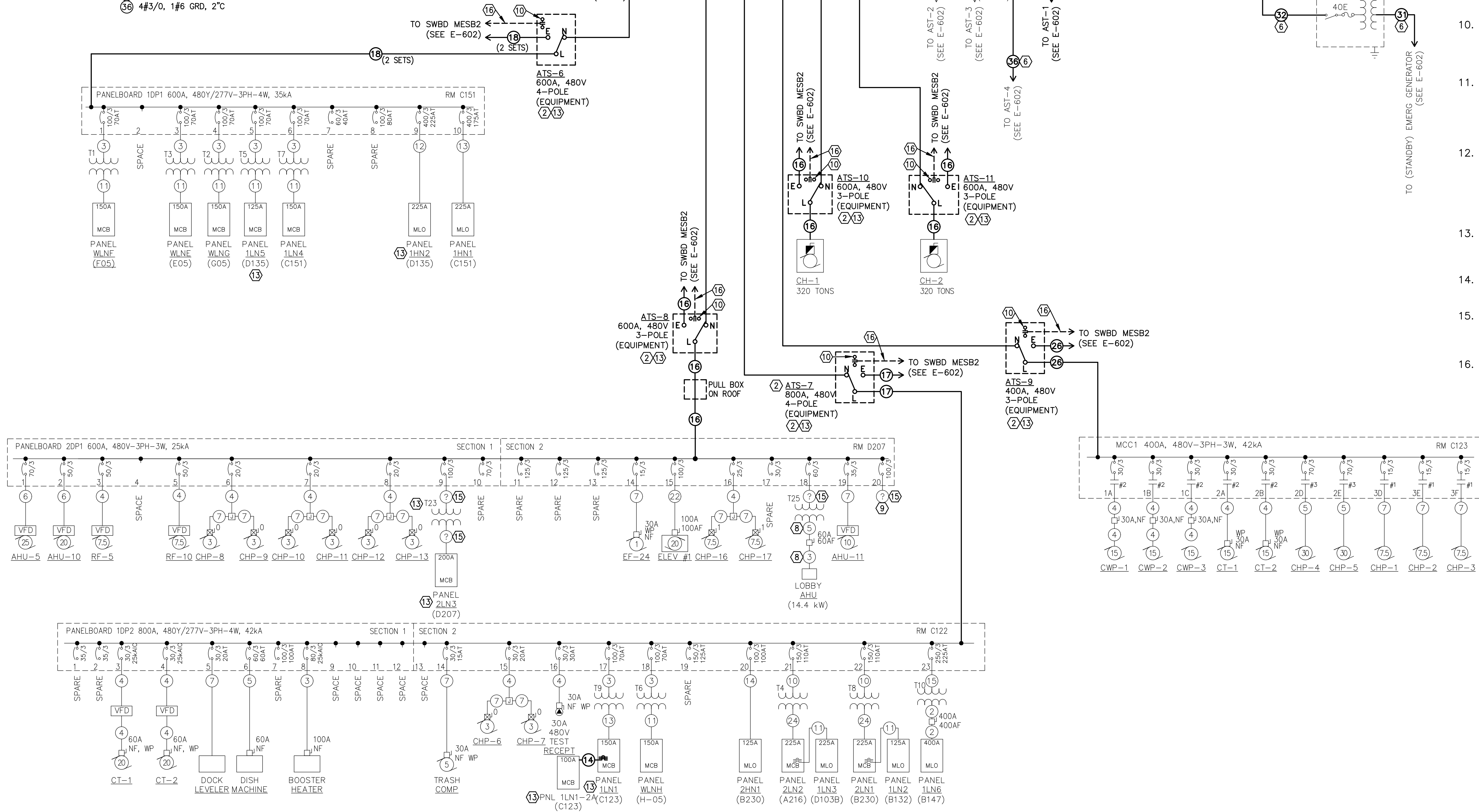


## FEEDER SCHEDULE

- 1 3-500KCM, 1#3 GRD, 3°C
- 2 4-500KCM, 1#3 GRD, 4°C
- 3 3#4, 1#8 GRD, 1°C
- 4 3#10, 1#10 GRD, 3/4°C
- 5 3#6, 1#10 GRD, 1°C
- 6 3#8, 1#10 GRD, 3/4°C
- 7 3#12, 1#12 GRD, 3/4°C
- 8 2#6, 1#10 GRD, 3/4°C
- 9 3#2/0, 1#6 GRD, 2°C
- 10 3#2, 1#6 GRD, 1-1/2°C
- 11 4#1, 1#6 GRD, 2°C OR 1-1/2°C
- 12 4#4/0, 1#4 GRD, 2-1/2°C
- 13 4#2/0, 1#6 GRD, 2°C
- 14 4#3, 1#8 GRD, 1-1/2°C
- 15 3#4/0, 1#4 GRD, 2°C
- 16 2 SETS OF 3-350KCM, 1#1/0 GRD, 3°C
- 17 2 SETS OF 4-500KCM, 1#3/0 GRD, 4°C
- 18 4-350KCM, 1#1/0 GRD, 3°C
- 19 4#6, 1#10 GRD, 1°C
- 20 3#2/0, 1#1/0, 1#6 GRD, 2°C
- 21 5-350KCM, 1#4 GRD, 3-1/2°C
- 22 3#3, 1#8 GRD, 1-1/2°C
- 23 5-500KCM, 1#3 GRD, 4°C
- 24 5#4/0, 1#4 GRD, 3°C
- 25 3#1, 1#6 GRD, 1-1/2°C
- 26 3-350KCM, 1#1/0 GRD, 3°C
- 27 3 SETS OF 4-500KCM, 1#3/0 GRD, 4°C
- 28 (2) 1/C #1 5KV, 1#6 GRD IN CABLE DUCT
- 29 (3) 1/C 750KCM 5KV, 5°C
- 30 (3) 1/C #1/0 5KV SHLD, 1#1/0 GRD, 4°C
- 31 3-500KCM, 1#1/0 GRD, 3°C
- 32 (3) 1/C #1/0 5KV SHLD, 1#1/0 GRD, 2-1/2°C
- 33 4#3/0, 1#6 GRD, 2°C

DESIG.	SIZE	VOLTAGE	REMARKS	FEEDS	% Z
T1	45 KVA	480-120/208		WLNf	4.0%
T2	45 KVA	480-120/208		WLNf	4.0%
T3	45 KVA	480-120/208		WLNf	4.0%
T4	75 KVA	480-120/208	K-RATED	2LN2,1LN3	3.52%
T5	45 KVA	480-120/208		1LN5	4.0%
T6	45 KVA	480-120/208		WLNH	4.0%
T7	45 KVA	480-120/208		1LN4	4.0%
T8	75 KVA	480-120/208	K-RATED	2LN1,1LN2	3.52%
T9	45 KVA	480-120/208		1LN1	4.2%
T10	112.5 KVA	480-120/208		1LN6	(7)
T11	30 KVA	480-120/208		1LC2	4.4%
T12	15 KVA	480-120/208		1LC3	5.2%
T13	45 KVA	480-120/208		1LC1	4.0%
T14	45 KVA	480-120/208		1LC4	4.0%
T15	15 KVA	480-120/208		WLCF	5.2%
T16	30 KVA	480-120/208		WLCG	4.4%
T17	15 KVA	480-120/208		WLCB	5.2%
T18	15 KVA	480-120/208		WLCF	5.2%
T19	15 KVA	480-120/208		2LE1	5.2%
T20	30 KVA	480-120/208		1LE2	4.4%
T21	15 KVA	480-120/208		1LE3	5.2%
T22	300 KVA	480-4160	PAD-MTD	ATS-5	3.8%
T23	75 KVA	480-120/208		2LN3	3.61%
T24	45 KVA	480-120/208		1LE4	6.2%
T25	45 KVA	480-120/208		LOBBY AHU	4.9%

FLOOR	VOLTAGE	TYPE	SEQUENCE
1	H-480Y/277 OR 480	N-NORMAL	1
2	L-208Y/120 OR 120/240	C-CRITICAL E-EMERGENCY	2 3



## GENERAL NOTES:

- A. ALL CONDUCTORS/CABLES ARE COPPER UNLESS NOTED OTHERWISE.
- B. PROVIDE ARC FLASH HAZARD WARNING LABEL ON ALL ELECTRICAL EQUIPMENT PER SPECIFICATION SECTIONS 260553 & 260573.
- C. REFER TO SPECIFICATION SECTION 012300 FOR DESCRIPTION OF ALL ALTERNATE BID ITEMS.
- D. PROVIDE LABEL INDICATING MAX AVAILABLE FAULT CURRENT AND DATE OF CALCULATION ON EACH SWBD, PNLD & MCC PER NEC 408.6 & 430.99.

## KEY NOTES:

1. EXIST MSB HAS GROUND FAULT INDICATION AND TRIPPING ON ALL BREAKERS, EXCEPT FP CB, & ZONE INTERLOCKING BETWEEN MAIN AND FEEDER BREAKERS.
2. PROVIDE NEW ATS PER SPECIFICATION 263623.
3. THERE ARE (5)-225A/2P CIRCUIT BREAKERS MOUNTED IN TRANSFORMER SECONDARY WIRING COMPARTMENT FOR BUILDING FEEDS.
4. THERE IS 1 CABLE-3#4/0 W/ 1#4 GRD TYPE USE - DIRECT BURIED TO EACH COTTAGE.
5. PROVIDE NEW ABB-GE TJL6S-TS20LIGT2Z1-TR6S600J CB AS SHOWN.
6. PROVIDE NEW FEEDER IN EXIST CONDUIT(S).
7. ILLEGIBLE NAMEPLATE.
8. NO GRD CONDUCTOR.
9. UNKNOWN LOAD. TRACE CKT AND UPDATE PNLD CKT DIRECTORY PER SPECIFICATION 260553 FOR COMPLIANCE WITH NEC 408.4(A).
10. ALT BID NO. 1: ANTI-PARALLELING RELAY CONTACT CLOSURES AFTER 100ms TO TRIP EMERGENCY SOURCE CIRCUIT BREAKER.
11. PROVIDE LABEL INDICATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE THE FAULT CURRENT CALCULATION WAS PERFORMED PER NEC 110.24(A).
12. ALT BID NO. 3: PERFORM PREVENTATIVE MAINTENANCE ON THIS EQUIP PER SPECIFICATION SECTION 260115 AFTER NEW 1000kW EG IS FULLY INSTALLED AND FULLY OPERATIONAL.
13. PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATE PER SPECIFICATION SECTION 260553.
14. ADJUST CURRENT SETTING DIAL TO 0.8X (200A).
15. FIELD VERIFY AND INDICATE CONDUIT AND CONDUCTOR SIZES ON AS-BUILT DWGS.
16. ALT BID NO. 1: 3/4"C-1 CABLE (2/C#14)

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

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PHONE: 636-600-1551  
MISSOURI STATE CERTIFICATE  
OF AUTHORITY #000408

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
MENTAL HEALTH

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PROJECT # M1908-01  
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FACILITY # 6517335013

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DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013-E-601.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

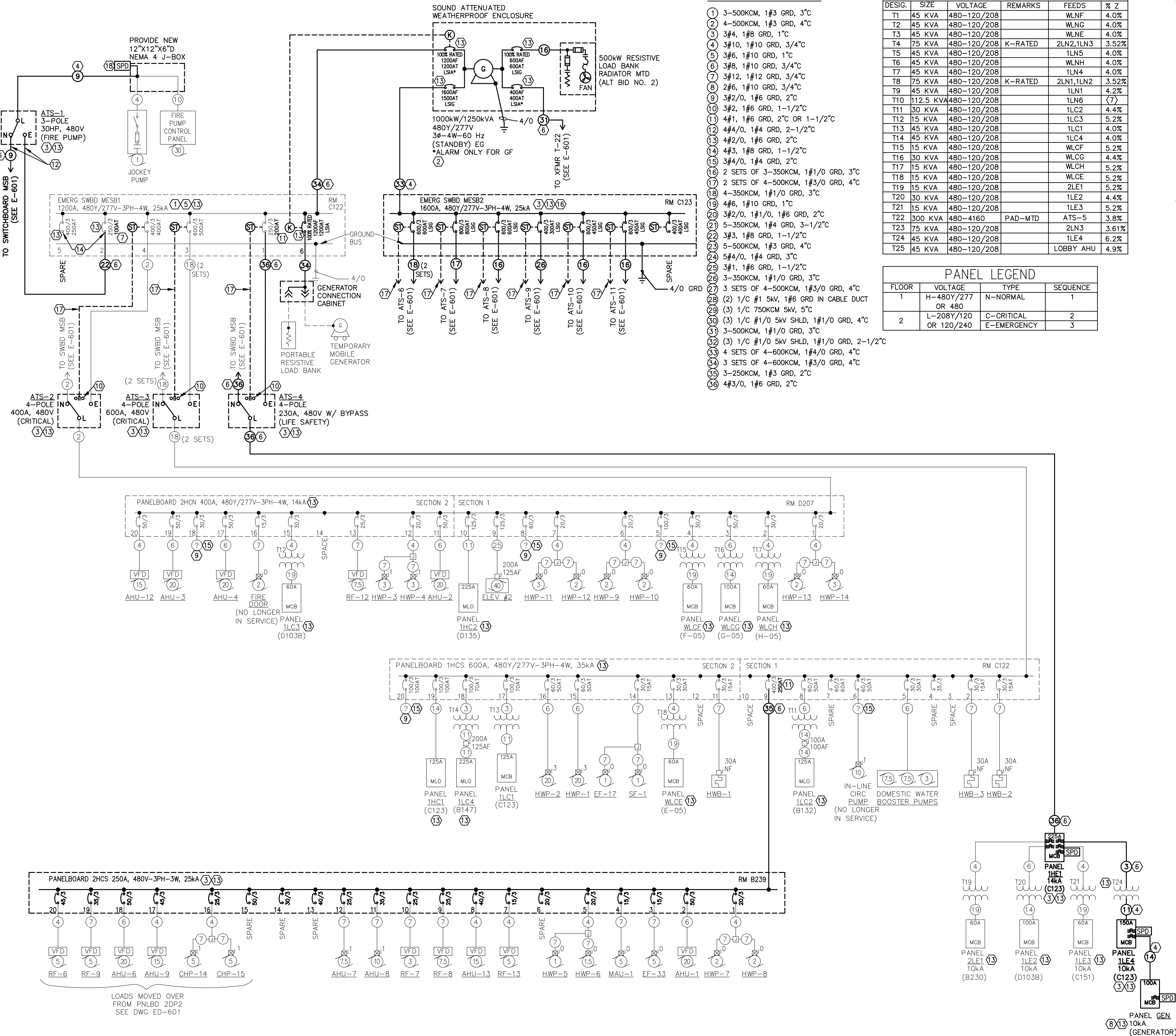
SHEET TITLE:  
ONE-LINE  
DIAGRAM

SHEET NUMBER:

E-601

19 OF 26 SHEETS  
JUNE 22, 2022





## GENERAL NOTES:

- ALL CONDUCTORS/CABLES ARE COPPER UNLESS NOTED OTHERWISE.
- PROVIDE ARC FLASH HAZARD WARNING LABEL ON ALL ELECTRICAL EQUIPMENT PER SPECIFICATION SECTIONS 260553 & 260573.
- REFER TO SPECIFICATION SECTION 012300 FOR DESCRIPTION OF ALL ALTERNATE BID ITEMS.
- PROVIDE LABEL INDICATING MAX AVAILABLE FAULT CURRENT AND DATE OF CALCULATION ON EACH SWBD AND PNLD PER NEC 408.6.

## KEY NOTES:

- EXIST MESB1 HAS GROUND FAULT INDICATION AND ALARM FOR ALL CIRCUIT BREAKERS BUT BREAKERS DO NOT TRIP FOR GROUND FAULT.
- PROVIDE NEW DIESEL-ENGINE-DRIVEN EG SET PER SPECIFICATION SECTION 263213.13.
- PROVIDE NEW ELECT EQUIP PER DIVISION 26 SPECIFICATIONS.
- PROVIDE NEW FEEDER AS SHOWN.
- PROVIDE NEW 35kA CB W/ ELECTRONIC TRIP & 120VAC SHUNT TRIP UNIT AND NEW 120VAC SHUNT TRIP UNITS FOR EXIST GE TYPE SFHA & SGHA CBs AS SHOWN. (ALL SHUNT TRIP UNITS ARE P/O ALT BID NO. 1.) REMOVE THE 2.75" DEAD FRONT BELOW EXIST CBs AND MOVE ALL CBs DOWN 2.75" TO MAKE ROOM FOR NEW 1200A CB.
- PROVIDE NEW FEEDER IN EXIST CONDUIT(S).
- PROVIDE THE FOLLOWING NEW ITEMS FOR EXIST GE TYPE SGHA CB: TRIP RATING PLUG AS SHOWN, (2) 52a/52b AUX CONTACTS WITH RED LED ALARM PILOT LIGHT TO INDICATE WHEN THE CB IS TRIPPED OR OPEN (OFF), AND PADLOCKING MECHANISM THAT ALLOWS LOCKING THE CB IN THE CLOSED (ON) AND OPEN (OFF) POSITIONS. THE PROVISION FOR LOCKING THE CB MUST REMAIN IN PLACE WITH OR WITHOUT THE LOCK INSTALLED.
- PROVIDED W/ NEW GENERATOR SET.
- UNKNOWN LOAD. TRACE CKT AND UPDATE PNLD CKT DIRECTORY PER SPECIFICATION 260553 FOR COMPLIANCE WITH NEC 408.4(A).
- ALT BID NO. 1: ANTI-PARALLEL RELAY CONTACT CLOSURES AFTER 100ms TO TRIP EMERGENCY SOURCE CIRCUIT BREAKER.
- PROVIDE NEW RATING PLUG FOR EXIST GE CB AS SHOWN.
- EXTEND EXIST BELOW FLR CONDUIT INTO NEW ATS-1.
- PROVIDE NEW ENGRAVED LAMINATED PLASTIC NAMEPLATE PER SPECIFICATION SECTION 260553.
- MV THE FEEDER CONDUCTORS FROM THE CB IN POSITION 5 TO THE CB IN POSITION 2.
- FIELD VERIFY AND INDICATE CONDUIT AND CONDUCTOR SIZES ON AS-BUILT DWGS.
- ALT BID NO. 1: PROVIDE SHUNT TRIP UNIT ON EACH CB.
- ALT BID NO. 1: 3/4" C-1 CABLE (2/C#14)
- PROVIDED W/ FPATS. INSTALL IN CONDUIT HUB IN BOTTOM OR SIDE OF J-BOX.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

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PROJECT # M1908-01  
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DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022  
CAD DWG FILE: M1908-01-7355-  
6517335013-E-602.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
ONE-LINE  
DIAGRAM

SHEET NUMBER:

E-602

20 OF 26 SHEETS  
JUNE 22, 2022



(RM C-123)										① NEW PANELBOARD SCHEDULE										14 kA					
PANEL: 1HE1										277/480				V 3 PH 4 W				MAIN: 225A MCB				MOUNTING: SURFACE			
CKT NO.	POLE	BRKR. SIZE	LOAD				WIRING	LOAD				POLE	BRKR. SIZE	CKT NO.											
			DESCRIPTION		KVA	KVA		DESCRIPTION		KVA															
1	1	20	LTG. 1ST. FLOOR AREA A, B				3.9	A	3.0	LTG. 2ND FLOOR AREA B, C				1	20	2									
3	1	20	LTG. 1ST. FLOOR AREA D				3.9	B	3.5	LTG. 2ND. FLOOR AREA A, D				1	20	4									
5	1	20	LTG. MECH AREAS, AREA C				2.9	C	2.7	LTG. WARD F				1	20	6									
7	1	20	LTG. WARD E, AREA B				4.1	A	2.7	LTG. WARD G				1	20	8									
9	1	20						B	2.7	LTG. WARD H				1	20	10									
11	3	50	TRANSFORMER T20 FOR PANEL 1LE2				3.6	C						1	20	12									
13							3.6	A						1	20	14									
15							3.6	B						1	20	16									
17	3	20	TRANSFORMER T21 FOR PANEL 1LE3				1.0	C						1	20	18									
19							3.3	A		SPD				3	30	20									
21							3.0	B								22									
23	3	20	TRANSFORMER T19 FOR PANEL 2LE1				1.7	C								24									
25							3.5	A		TRANSFORMER T24 FOR PANEL 1LE4				3	70	26									
27							2.5	B								28									
29	1	20	SPARE					C								30									
			SUBTOTAL							SUBTOTAL															
TOTAL CONNECTED LOAD: _____ KVA																									

(RM B-230)					EXISTING PANELBOARD SCHEDULE					10 kA	
PANEL: 2LE1		120/208		V 3 PH 4 W		MAIN: 60A MCB		MOUNTING: SURFACE			
CKT NO.	POLE	BRKR. SIZE	LOAD		PHASE	LOAD		POLE	BRKR. SIZE	CKT NO.	
			DESCRIPTION	KVA		DESCRIPTION	KVA				
1	1	20	SMOKE DAMPERS	1.3	A	1.2	FIRE SHUTTER B147	1	20	2	
3	1	20	SMOKE DAMPERS	1.3	B	1.2	FIRE SHUTTER B146	1	20	4	
5	1	20	PAGING SYSTEM	1.7	C			1	20	6	
7	1	20	TELEPHONE OUTLET	1.0	A			1	20	8	
9	1	20			B			1	20	10	
11	1	20			C			1	20	12	
13	1	20			A			1	20	14	
15	1		SPACE		B			1	20	16	
17	1		SPACE		C			1	20	18	
19	1		SPACE		A		SPACE	1		20	
21	1		SPACE		B		SPACE	1		22	
23	1		SPACE		C		SPACE	1		24	
SUBTOTAL						SUBTOTAL					
TOTAL CONNECTED LOAD: _____ KVA											

(GENERATOR)										NEW PANELBOARD SCHEDULE										10 kA											
PANEL: GEN										120/208 V_3_PH_4_W										MAIN: 100A MCB										MOUNTING: SURFACE	
CKT NO.	POLE	BRKR. SIZE	LOAD					KVA	PHASE	LOAD					KVA	POLE	BRKR. SIZE	CKT NO.													
			DESCRIPTION							DESCRIPTION																					
2	1	1	20	GENERATOR WINDING HEATER					.5	A	3.5	JACKET WATER HEATER & CIRC PUMP					2	60	2												
2	3	2	25	ENCLOSURE UNIT HEATER					2.0	B	3.5								4												
	5								2.0	C	1.2	BATTERY CHARGER					1	20	6												
	7	1	20	GFCI RECPTS					.36	A	.5	BATTERY HEATERS					1	20	8												
4	2	9	1	LOAD BANK CONTROLS					.5	B		SPARE					1	20	10												
2	11	1	15	LOUVER ACTUATORS					.5	C	1.0	FUEL PUMP					1	20	12												
	13	1	20	SPARE					.36	A		SPD					3	30	14												
	15	1	20	SPARE					.5	B									16												
	17	1	15	SPARE					.5	C									18												
SUBTOTAL								5.9		9.7	SUBTOTAL																				
TOTAL CONNECTED LOAD: 15.6 KVA																															

(RM D-103B)										EXISTING PANELBOARD SCHEDULE										10 kA			
PANEL: 1LE2				120/208				v_3 PH 4 W				MAIN: 100A MCB				MOUNTING: SURFACE							
CKT NO.	POLE	BRKR. SIZE	LOAD				PHASE	LOAD				POLE	BRKR. SIZE	CKT NO.									
			DESCRIPTION			KVA		KVA	DESCRIPTION						KVA								
1	1	20	SMOKE DAMPERS			1.3	A	0.8	ELEVATOR #2 PIT			1	20	2									
3	1	20	SMOKE DAMPERS			1.3	B	0.8	ELEVATOR #1 PIT			1	20	4									
5	1	20	F.A.TRP MODULE			1.0	C	1.0	ELEVATOR #1 CONTROLS			1	20	6									
7	1	20	F.A. CONTROL PANEL			1.0	A	1.0	ELEVATOR #2 CONTROLS			1	20	8									
9	1	20	AUDITORIUM P.A. SYSTEM			1.0	B	0.9	WARD F F.A. ANNUN., EMER. CALL.			1	20	10									
11	1	20				1.0	C	0.9	WARD G F.A. ANNUN., EMER. CALL.			1	20	12									
13	1	20					A	0.9	WARD H F.A. ANNUN., EMER. CALL.			1	20	14									
15	1	20					B	0.6	WARD F INTERCOM /DOOR ENTRY, P.A.			1	20	16									
17	1	20					C	0.6	WARD G INTERCOM /DOOR ENTRY, P.A.			1	20	18									
19	1	20					A	0.6	WARD H INTERCOM /DOOR ENTRY, P.A.			1	20	20									
21	1		SPACE				B	0.4	DOOR CONTROLS			1	20	22									
23	1		SPACE				C	1.3	FIRE SHUTTER RM A212			1	20	24									
25	1		SPACE				A		SPACE			1		26									
27	1		SPACE				B		SPACE			1		28									
29	1		SPACE				C		SPACE			1		30									
SUBTOTAL								SUBTOTAL															
TOTAL CONNECTED LOAD: _____KVA																							

(RM C-151)					EXISTING PANELBOARD SCHEDULE					10 kA		
PANEL: 1LE3			120/208		v_3_ph_4_w		MAIN: 60A MCB			MOUNTING: SURFACE		
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	LOAD			POLE	BRKR. SIZE	CKT NO.
			DESCRIPTION	KVA			DESCRIPTION	KVA				
1	1	20	SMOKE DAMPERS	1.3	A	1.0	F.A. TRP MODULE		1	20	2	
3	1	20	SMOKE DAMPERS	0.9	B	.9	WARD E F.A. ANNUN., EMER. CALL, P.A.		1	20	4	
5	1	20	SMOKE DAMPERS	0.6	C	.4	WARD E INTERCOM / DOOR ENTRY		1	20	6	
7	1	20	SMOKE DAMPERS	1.0	A				1	20	8	
9	1	20	DOOR CONTROL UNIT POWER	1.2	B				1	20	10	
11	1	20	TIME SWITCH	0.3	C				1	20	12	
13	1	20			A				1	20	14	
15	1	20			B				1	20	16	
17	1		SPACE		C				1	20	18	
19	1		SPACE		A				1	20	20	
21	1		SPACE		B		SPACE		1		22	
23	1		SPACE		C		SPACE		1		24	
SUBTOTAL						SUBTOTAL						
TOTAL CONNECTED LOAD: _____ KVA												

(RM C-123)										① NEW PANELBOARD SCHEDULE										10 kA											
PANEL: 1LE4										120/208 v_3_ph_4_w										MAIN: 150A MCB										MOUNTING: SURFACE	
CKT NO.	POLE	BRKR. SIZE	LOAD				PHASE	LOAD				POLE	BRKR. SIZE	CKT NO.																	
			DESCRIPTION		KVA			KVA	DESCRIPTION																						
② 1	3	80	EMERGENCY GENERATOR POWER PANEL		4.9	A	TEMP GENERATOR DOCKING STATION SHORE PWR		1	30	2																				
3					6.0	B	TEMP GENERATOR DOCKING STATION SHORE PWR		1	30	4																				
5					4.7	C	TEMP GENERATOR DOCKING STATION SHORE PWR		1	20	6																				
② 7	1	20	SWBD MESB1 & MESB2 SHUNT TRIP PWR		0.3	A	SPARE		2	30	8																				
9	1	20	SPARE			B					10																				
11	1	20	SPARE			C	SPARE		1	20	12																				
13	1	20	SPARE			A	SPARE		1	20	14																				
15	1	20	SPARE			B	SPARE		1	20	16																				
17	1	20	SPARE			C	SPARE		1	20	18																				
19	1	20	SPARE			A	SPARE		1	20	20																				
21	1	20	SPARE			B	SPARE		1	20	22																				
23	1	20	SPARE			C	SPARE		1	20	24																				
25	1	20	SPARE			A	SPD		3	30	26																				
27	1	15	SPARE			B					28																				
29	1	15	SPARE			C					30																				
SUBTOTAL							SUBTOTAL																								
TOTAL CONNECTED LOAD: _____ KVA																															

GENERAL NOTES:

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553 WITH THE LOAD(S) SERVED BY EACH CIRCUIT IDENTIFIED PER NEC 408.4(A).
- C. REFER TO SPECIFICATION SECTION 012300 FOR DESCRIPTION OF ALL ALTERNATE BID ITEMS

KEY NOTES:

1. PROVIDE NEW PANELBOARD WITH INTEGRALLY MOUNTED SPD PER SPECIFICATION SECTION 262416.
2. PROVIDE DEVICE THAT PREVENTS CB FROM BEING TURNED OFF BUT ALLOWS CB TO TRIP.
3. PROVIDED WITH NEW GENERATOR SET.
4. ALT BID NO. 2.

STATE OF MISSOURI  
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GOVERNOR



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Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

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PHONE: 636-600-1551  
MISSOURI STATE CERTIFICATE  
OF AUTHORITY #000408

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
MENTAL HEALTH

REPLACE EMERGENCY  
GENERATOR,  
INFRASTRUCTURE  
ST. LOUIS FORENSIC  
TREATMENT CENTER -  
SOUTH  
5300 ARSENAL STREET  
ST. LOUIS, MO 63139

PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013-E-603.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
PANEL SCHEDULES  
- LIFE SAFETY  
BRANCH

SHEET NUMBER:

E-603

21 OF 26 SHEETS  
JUNE 22, 2022



(RM C-123) PANELBOARD SCHEDULE												25 kA		
PANEL: 1HC1			277/480 V_3_PH_4_W			MAIN: 125A MLO			MOUNTING: SURFACE					
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	KVA	LOAD			POLE	BRKR. SIZE	CKT NO.	
			DESCRIPTION					DESCRIPTION						
1	1	20	MECH. ROOM AREAS			3.0	A	4.2	LTG. WARD E E08,14,17,21,22,27-30(WING 108)			1	20	2
3	1	20	LTG. DINING/FOOD SERVICE			3.6	B	2.0	LTG. WARD E E86-106(WING 108)			1	20	4
5	1	20	DIETARY			2.5	C	2.0	LTG. WARD E E36-56(WING 58)			1	20	6
7	1	20	LTG. DENTAL,B109,110,B139-141,B102-106			3.0	A	2.7	LTG. WARD E E59-82(WING 85)			1	20	8
9	1	20	LTG. MECH. RM. B239			1.9	B	2.6	VAV 179-182, 184-186, 188, 189			1	15	10
11	1	20	SPARE				C	2.5	VAV 183, 187, 190-192, 198			1	15	12
13	1	20	SPARE				A	2.4	VAV 193-197			1	15	14
15	1	20	SPARE				B	2.7	VAV 1-9, 11-14 WARD "E"			1	15	16
17	1	20	SPARE				C	2.4	VAV 103-108, 113, 114, 117, 120			1	15	18
19	1	20	SPARE				A	2.2	VAV 109-112, 115, 116, 119, 121			1	15	20
21	1	20	SPARE				B	3.0	VAV 135-147			1	15	22
23	1	20	SPARE				C	3.3	VAV 123-133			1	15	24
25	1	20	SPARE				A	1.7	VAV 10, 15-18 WARD "E"			1	15	26
27	1	20	SPARE				B	SPARE			1	20	28	
29	1	20	SPARE				C	SPARE			1	20	30	
SUBTOTAL								SUBTOTAL						
TOTAL CONNECTED LOAD: _____ KVA														

(RM D-136) PANELBOARD SCHEDULE												14 kA		
PANEL: 1HC2			277/480 V_3_PH_4_W			MAIN: 225A MLO			MOUNTING: SURFACE					
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	LOAD			POLE	BRKR. SIZE	CKT NO.		
			DESCRIPTION				KVA	DESCRIPTION					KVA	
1	1	20	LTG. WARD F F08,14,17,21,22,27-30			4.2	A	2.0	LTG WARD F F86-106,(WING F108)			1	20	2
3	1	20	LTG. WARD F F36-56,(WING F58)			2.0	B	2.7	LTG. WARD F F59-82,(WING F85)			1	20	4
5	1	20	LTG. WARD G G08,14,17,21,22,27-30			4.2	C	2.0	LTG. WARD G G86-106,(WING G108)			1	20	6
7	1	20	LTG. WARD G G36-56,(WING G58)			2.0	A	2.7	LTG. WARD G G59-82,(WING G85)			1	20	8
9	1	20	LTG. WARD H H08,14,17,21,22,27-30			4.2	B	2.0	LTG WARD H H86-106,(WING H108)			1	20	10
11	1	20	LTG. WARD H H 36-56,(WING H58)			2.0	C	2.7	LTG. WARD H H59-82,(WING H85)			1	20	12
13	1	20	LTG. MECH. RM. D207			2.5	A	3.0	VAV 158-160, 164, 166, 167			1	15	14
15	1	20					B	3.1	VAV 163, 165, 168, 169			1	15	16
17	1	20					C	2.2	VAV 170-177			1	15	18
19	1	20					A	3.1	VAV 19-28, 30-32 WARD "F"			1	15	20
21	1	20					B	2.7	VAV 37-46, 48-50 WARD "G"			1	15	22
23	1	15	VAV 29, 33-36 WARD "F"			1.7	C	2.7	VAV 55-64, 66-68 WARD "H"			1	15	24
25	1	15	VAV 47, 51-54 WARD "G"			1.7	A	2.7	VAV 77-85			1	15	26
27	1	15	VAV 65, 69-72 WARD "H"			1.7	B	2.2	VAV 86-95			1	15	28
29	1		SPACE			3.0	C	2.2	VAV 96-101			1	15	30
31	1		SPACE				A					1	15	32
33	1		SPACE				B		SPACE			1		34
35	1		SPACE				C		SPACE			1		36
37	1		SPACE				A		SPACE			1		38
39	1		SPACE				B		SPACE			1		40
41	1		SPACE				C		SPACE			1		42
SUBTOTAL								SUBTOTAL						
TOTAL CONNECTED LOAD: _____						KVA								

(RM C-123) PANELBOARD SCHEDULE												10 kA	
PANEL: 1LC1			120/208 V_3_PH_4_W			MAIN: 125A MCB			MOUNTING: FLUSH				
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	KVA	LOAD			POLE	BRKR. SIZE	CKT NO.
			DESCRIPTION					DESCRIPTION					
1	2	50	SPARE			A	.8	AHU 8 CONTROLS			1	20	2
3						B	.8	AHU 13 CONTROLS			1	20	4
5	1	30	SPARE			C	.8	AHU 7 CONTROLS			1	20	6
7	1	30	SPARE			A	.6	EMCS CONTROL POWER			1	20	8
9	1	20	SPARE			B	.8	VALVES B239			1	20	10
11	1	20	COOLING TOWER VALVES			C	.8	SPARE			3	60	12
13	1	20	LOUVERS			A	.8						14
15	1	20	HWB 1,2 CONTROLS			B	1.2						16
17	1	20	HWB 3 CONTROLS			C	.6	VALVES			1	20	18
19	1	20	SIEMIC SENSOR/VALVES			A	1.0	SPARE			1	20	20
21	1	20	FUEL OIL TANK MONITOR			B	.6	2.0 WATER HEATER			1	30	22
23	1	20	OXYGEN DEPRIVATION MONITOR			C	.6	2.0 WATER HEATER			1	30	24
25	1		SPACE			A	1.0	TEMP VALVE SENSOR			1	20	26
27	1		SPACE			B		EMCS			1	20	28
29	1		SPACE			C		SPARE			1	20	30
SUBTOTAL								SUBTOTAL			1	20	30
TOTAL CONNECTED LOAD: _____						KVA							

(RM B-132) PANELBOARD SCHEDULE												10 kA	
PANEL: 1LC2			120/208 V_3_PH_4_W			MAIN: 125A MLO			MOUNTING: FLUSH				
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	KVA	LOAD			CKT NO.		
			DESCRIPTION					DESCRIPTION					
1	1	20	RECPT. B110 EXAM. RM.			.4	A	RECPT. B102 SECURITY OFFICE			1 20 2		
3	1	20	RECPT. B109 EXAM. RM.			.4	B	RECPT. B102 SECURITY OFFICE			1 20 4		
5	1	20	RECPT. B112 DENTAL EQUIP.			.2	C	RECPT. A102 LOBBY DESK			1 20 6		
7	1	20	RECPT. B112 DENTAL EQUIP.			.2	A	RECPT. B141 TELEPHONE EQUIP. RM.			1 20 8		
9	1	20	RECPT. B113, B114 DENTAL EXAM.			.6	B	RECPT. B141 TELEPHONE EQUIP. RM.			1 20 10		
11	1	20	RECPT. B113, B114 DENTAL EXAM.			.4	C	RECPT. B140 NIGHT CABINET			1 20 12		
13	1	20	RECPT. B133 BLOOD DRAW/LAB.			.8	A	RECPT. B139 PHARMACY			1 20 14		
15	1	20	RECPT. B127 CLEAN INSTR. LAB			.6	B	RECPT. B139 PHARMACY			1 20 16		
17	1	20	RECPT. B126 DARK RM.			.6	C	RECPT. B139 PHARMACY			1 20 18		
19	1	20	DOOR ELECT. CONTROL L-1 SOUTH-WEST			.5	A	RECPT. 136A			1 20 20		
21	1	20	DOOR ELECT. CONTROL L-2 SOUTH-WEST			.5	B	PHARMACY REFRIGERATOR			1 20 22		
23	1	20					C	SPACE			1 20 24		
25	1	20					A	SPACE			1 20 26		
27	1	20					B				2 70 28		
29	1	20					C				30		
			SUBTOTAL					SUBTOTAL					
TOTAL CONNECTED LOAD: _____ KVA													

(RM D-1038) PANELBOARD SCHEDULE 10 kA											
PANEL: 1LC3			120/208 V_3_PH_4_W			MAIN: 60A MCB			MOUNTING: SURFACE		
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	KVA	LOAD			CKT NO.
			DESCRIPTION					DESCRIPTION			
1	1	20	DOOR ELECT. CONTROL L-1 NORTH-WEST			.5 A	.5	DOOR ELECT. CONTROL L-1 NORTH-WEST			1 20 2
3	1	20	RECEPT. L-2 A214			.8 B	.6	RECEPT. L-2 A214			1 20 4
5	1	20	DOOR ELECT. CONTROL L-1 NORTH-WEST			.6 C					1 20 6
7	1	20	RECEPT. L-2 A214			.6 A					1





BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

ROGERS-SCHMIDT  
ENGINEERING CO., P.C.  
CONSULTING ENGINEERS  
1736 WEST PARK CENTER DR.  
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ST. LOUIS, MO 63026  
PHONE: 636-600-1551  
MISSOURI STATE CERTIFICATE  
OF AUTHORITY #000408

OFFICE OF ADMINISTRATION  
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MANAGEMENT,  
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REPLACE EMERGENCY  
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ST. LOUIS FORENSIC  
TREATMENT CENTER -  
SOUTH  
5300 ARSENAL STREET  
ST. LOUIS, MO 63139

PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013-E-605.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
PANEL SCHEDULES  
- CRITICAL  
BRANCH

SHEET NUMBER:

E-605

23 OF 26 SHEETS  
JUNE 22, 2022

GENERAL NOTES:

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553 WITH THE LOAD(S) SERVED BY EACH CIRCUIT IDENTIFIED PER NEC 408.4(A).

(RM E-05)										PANELBOARD SCHEDULE										10 kA												
PANEL: WLCE										120/208 V_3_PH_4_W										MAIN: 60A MCB										MOUNTING: SURFACE		
CKT NO.	POLE	BRKR. SIZE	LOAD				KVA	PHASE	LOAD				KVA	POLE	BRKR. SIZE	CKT NO.																
			DESCRIPTION						DESCRIPTION																							
1	1	20	NIGHT LIGHTS E86, E89, E91, E94				.4	A	.4	NIGHT LIGHTS E47, E50, E52, E55				1	20	2																
3	1	20	NIGHT LIGHTS E97, E100, E102, E106				.4	B	.4	LIGHT LIGHTS E37, E39, E41, E44				1	20	4																
5	1	20	FAN COIL UNITS EF-1				1.4	C	1.4	FAN COIL UNITS EF-3				1	20	6																
7	1	20	RECEPTACLES E108				.4	A	.4	RECEPTACLES E58				1	20	8																
9	1	20	RECPT. NURSES STATION E29				.7	B	.9	MEDICATION ROOM RECPT/REF.				1	20	10																
11	1	20	RECPT. NURSES STATION E29				.7	C	1.4	DAMPERS E57, E84				1	20	12																
13	1	20	DAMPERS E10, E13, EF-4				1.6	A	1.2	CORRIDOR RECEPTACLES E85				1	20	14																
15	1	20						B	1.8	FAN COIL UNITS EF-2				1	20	16																
17	1	20						C	1.0	NIGHT LIGHTS E59, E61, E79, E82				1	20	18																
19	1	20						A	1.0	NIGHT LIGHTS E65, E68, E71, E74, E76				1	20	20																
21	2	30						B	1.2	VALVES, RV-1				1	20	22																
23								C	1.4	AHU-1, EMCS POWER				1	20	24																
SUBTOTAL									SUBTOTAL																							
TOTAL CONNECTED LOAD: _____ KVA																																

WARD "E"

(RM G-05)				PANELBOARD SCHEDULE						10 kA					
PANEL:		WLCG		120/208		V_3_PH_4_W		MAIN:		100A MCB		MOUNTING:		SURFACE	
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	LOAD			POLE	BRKR. SIZE	CKT NO.			
			DESCRIPTION	KVA			DESCRIPTION	KVA							
1	1	20	NIGHT LIGHTS G86, G89, G91, G94	.4	A	.4	NIGHT LIGHTS G47, G50, G52, G55		1	20	2				
3	1	20	NIGHT LIGHTS G97, G100, G102, G106	.4	B	.4	LIGHT LIGHTS G37, G39, G41, G44		1	20	4				
5	1	20	FAN COIL UNITS EF-9	1.4	C	1.4	FAN COIL UNITS EF-11		1	20	6				
7	1	20	RECEPTACLES G108	.4	A	.4	RECEPTACLES G58		1	20	8				
9	1	20	RECPT. NURSES STATION G29	.7	B	.9	MEDICATION ROOM RECPT/REF.		1	20	10				
11	1	20	RECPT. NURSES STATION G29	.7	C	1.4	DAMPERS G57, G84		1	20	12				
13	1	20	DAMPERS G10, G13, EF-12	1.6	A	1.2	CORRIDOR RECEPTACLES G85		1	20	14				
15	1	20	AHU-12 CONTROL D-207	.8	B	1.8	FAN COIL UNITS EF-10		1	20	16				
17	1	20	VALVES D-207	.8	C	1.0	NIGHT LIGHTS G59, G62, G79, G82		1	20	18				
19	1	20	VALVES D-207	.8	A	1.0	NIGHT LIGHTS G65, G68, G71, G74, G76		1	20	20				
21	1	20	EMCS CIRCUIT D-207	1.0	B	1.2	VALVES, RV-3		1	20	22				
23	2	30			C	1.4	AHU-3, EMCS POWER		1	20	24				
25					A				1	20	26				
27	1	20			B				1	20	28				
29	1		SPACE		C		SPACE		1		30				
SUBTOTAL						SUBTOTAL									
TOTAL CONNECTED LOAD: _____ KVA															

WARD "G"

(RM F-05)										PANELBOARD SCHEDULE										10 kA											
PANEL: WLCF										120/208 V_3_PH_4_W										MAIN: 60A MCB										MOUNTING: SURFACE	
CKT NO.	POLE	BRKR. SIZE	LOAD				PHASE	LOAD				POLE	BRKR. SIZE	CKT NO.																	
			DESCRIPTION					KVA	DESCRIPTION						KVA																
1	1	20	NIGHT LIGHTS F86, F89, F91, F94				.4	A	NIGHT LIGHTS F47, F50, F52, F55				.4	1	20	2															
3	1	20	NIGHT LIGHTS F97, F100, F102, F106				.4	B	LIGHT LIGHTS F37, F39, F41, F44				.4	1	20	4															
5	1	20	FAN COIL UNITS EF-5				1.4	C	FAN COIL UNITS EF-7				1.4	1	20	6															
7	1	20	RECEPTACLES F108				.4	A	RECEPTACLES F58				.4	1	20	8															
9	1	20	RECPT. NURSES STATION F29				.7	B	MEDICATION ROOM RECPT/REF.				.9	1	20	10															
11	1	20	RECPT. NURSES STATION F29				.7	C	DAMPERS F57, F84				1.4	1	20	12															
13	1	20	DAMPERS F10, F13, EF-8				1.6	A	CORRIDOR RECEPTACLES F85				1.2	1	20	14															
15	1	20	AHU #2					B	FAN COIL UNITS, EF-6				1.8	1	20	16															
17	1	20						C	NIGHT LIGHTS F59, F62, F79, F82				1.0	1	20	18															
19	1	20						A	NIGHT LIGHTS F65, F68, F71, F74, F76				1.0	1	20	20															
21	1	20						B	VALVES, RV-2				1.2	1	20	22															
23	1	20						C	AHU-2, EMCS POWER				1.4	1	20	24															
SUBTOTAL								SUBTOTAL																							
TOTAL CONNECTED LOAD: _____ KVA																															

WARD "F"

(RM H-05)										PANELBOARD SCHEDULE										10 kA											
PANEL: WLCH										120/208 V_3_PH 4 W										MAIN: 60A MCB										MOUNTING: SURFACE	
CKT NO.	POLE	BRKR. SIZE	LOAD				PHASE	LOAD				POLE	BRKR. SIZE	CKT NO.																	
			DESCRIPTION		KVA	KVA		DESCRIPTION		KVA																					
1	1	20	NIGHT LIGHTS H86, H89, H91, H94		.4	A	.4	NIGHT LIGHTS H47, H50, H52, H55			1	20	2																		
3	1	20	NIGHT LIGHTS H97, H100, H102, H106		.4	B	.4	LIGHT LIGHTS H37, H39, H41, H44			1	20	4																		
5	1	20	FAN COIL UNITS EF-13		1.4	C	1.4	FAN COIL UNITS H58, EF-15			1	20	6																		
7	1	20	RECEPTACLES H108		.4	A	.4	RECEPTACLES H58			1	20	8																		
9	1	20	RECPT. NURSES STATION H29		.7	B	.9	MEDICATION ROOM RECPT/REF.			1	20	10																		
11	1	20	RECPT. NURSES STATION H29		.7	C	1.4	DAMPERS H57, H84			1	20	12																		
13	1	20	DAMPERS H10, H13, EF-16		1.6	A	1.2	CORRIDOR RECEPTACLES W85			1	20	14																		
15	1	20				B	1.8	FAN COIL UNITS EF-14			1	20	16																		
17	1	20				C	1.0	NIGHT LIGHTS H59, H62, H79, H82			1	20	18																		
19	1	20				A	1.0	NIGHT LIGHTS H65, H68, H71, H74, H76			1	20	20																		
21	1	20				B	1.2	VALVES, RV-4			1	20	22																		
23	1	20				C	1.4	AHU-4, EMCS POWER			1	20	24																		
SUBTOTAL							SUBTOTAL																								
TOTAL CONNECTED LOAD: _____ KVA																															

WARD "H"



(RM C-151)										PANELBOARD SCHEDULE										42 KA	
PANEL: 1HN1			277/480			V_3_PH_4_W			MAIN: 225A MLO			MOUNTING: SURFACE									
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	LOAD			POLE	BRKR. SIZE	CKT NO.									
			DESCRIPTION	KVA			KVA	DESCRIPTION													
1	1	20	LTG. CORRIDOR	3.3	A	4.3	LTG. MEETING ROOMS & OFFICES	1	20	2											
3	1	20	LTG. LIBRARY	4.0	B	3.9	LTG. CORRIDOR	1	20	4											
5	1	20	LTG. FORENSIC OFFICE AREAS	3.9	C	4.0	LTG. CORRIDOR C136,137,139,152-155,144,147,148	1	20	6											
7	1	20	LTG. C142, C150	1.2	A	4.2	LTG. C112-114,128-130,133, 134	1	20	8											
9	1	20	WARD E	2.5	B	4.2	LTG. C103-111	1	20	10											
11	1	20	WARD E	3.0	C	4.0	LTG. C101-103,118-120,C115,124-127	1	20	12											
13	1	20	WARD E CUH-1 E96	3.8	A	2.8	LTG. EXTERIOR	1	20	14											
15	1	20	WARD E CUH-1 E46	3.8	B	3.0	LTG. COURT YARD	1	20	16											
17	1	20	WARD E CUH-1 E64	3.8	C	4.3	LTG. QUAD 4 ENTRANCE	1	20	18											
19	1	20			A	3.7	LTG. CENTER LOOP	1	20	20											
21	1	20			B	4.3	LTG. QUAD 3 ENTRANCE	1	30	22											
23	1		SPACE		C	2.4	LTG. FORENSIC COURT YARD	1	20	24											
25	1		SPACE		A			1	20	26											
27	1		SPACE		B			1	20	28											
29	1		SPACE		C			1	20	30											
SUBTOTAL							SUBTOTAL														
TOTAL CONNECTED LOAD: _____				KVA																	

(RM C-123)										PANELBOARD SCHEDULE										10 kA	
PANEL: 1LN1-2A					120/208 V_3_PH_4_W					MAIN: 100A MCB					MOUNTING: SURFACE						
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	LOAD			POLE	BRKR. SIZE	CKT NO.									
			DESCRIPTION	KVA			DESCRIPTION	KVA													
1	2	60	HALL FURNACE		A		MAIN		3	100	2										
3					B						4										
5	2	60	HALL FURNACE		C						6										
7					A		SPD FURNACE		2	70	8										
9	2	60	SPARE		B						10										
11					C	.4	RECEPTS AT PANEL & STAIR LANDING		1	20	12										
13	2	20	SPARE		A		CLOTHES DRYER - HOUSEKEEPING		2	30	14										
15					B						16										
17	1	20	WASHING MACHINE - HOUSEKEEPING		C		SPACE		1		18										
19	1		SPACE		A		SPACE		1		20										
21	1		SPACE		B		SPACE		1		22										
23	1		SPACE		C		SPACE		1		24										
SUBTOTAL							SUBTOTAL														
TOTAL CONNECTED LOAD: _____ KVA																					

(RM D-135) PANELBOARD SCHEDULE										25 KA		
PANEL: 1HN2			277/480 V_3_PH_4_W			MAIN: 225A MLO			MOUNTING: SURFACE			
CKT NO.	POLE	BRKR. SIZE	LOAD			PHASE	LOAD			POLE	BRKR. SIZE	CKT NO.
			DESCRIPTION	KVA			DESCRIPTION	KVA				
1	1	20	LTG. D113,124-127	3.6	A	3.0	LTG. A106 OPEN OFFICE		1	20	2	
3	1	20	LTG. D146-151,D157-161	3.9	B	3.0	LTG. A106 OPEN OFFICE		1	20	4	
5	1	20	LTG. D130-134, CORRIDOR D112,123,128-129	3.8	C	4.0	LTG. D101-103,106,107,111		1	20	6	
7	1	20	LTG. D109,110,115,117,121,122,127,137	3.9	A	3.2	CORRIDOR LTG.		1	20	8	
9	1	20	CORRIDOR LTG.	2.5	B	2.5	LG. WARD G G02,06,07,12,15,18		1	20	10	
11	1	20	LTG. WARD F F02,06,07,12,15,18	2.5	C	3.0	LTG. WARD G G04,10,11,13,16,19,35		1	20	12	
13	1	20	LTG. WARD F F04,10,11,16,19,31,32,35,57,107	3.0	A	2.5	LTG. WARD H H02,06,07,12,15,18		1	20	14	
15	1	20	GYM LIGHTING	6.8	B	3.0	LTG. WARD H H04,10,11,13,16,19,35		1	20	16	
17	1	20	GYM LIGHTING	8.0	C	3.8	WARD F, CUH-1, F96		1	20	18	
19	1	20	LTG. 139-143	2.4	A	3.8	WARD F, CUH-1, F46		1	30	20	
21	1	20	EXTERIOR BUILDING LTG. (NORTH HALF)	3.9	B	3.8	WARD F, CUH-1, F64		1	20	22	
23	1	20			C	3.8	WARD G, CUH-1, G96		1	20	24	
25	1		SPACE		A	3.8	WARD G, CUH-1, G46		1	20	26	
27	1	20			B	3.8	WARD G, CUH-1, G64		1	20	28	
29	1		SPACE		C	3.8	WARD H, CUH-1, H96		1	20	30	
31	1		SPACE		A	3.8	WARD H, CUH-1, H46		1	20	32	
33	1		SPACE		B	3.8	WARD H, CUH-1, H64		1	30	34	
35	1		SPACE		C				1	20	36	
37	1		SPACE		A				1	20	38	
39	1		SPACE		B				1	20	40	
41	1		SPACE		C		SPACE		1		42	
SUBTOTAL						SUBTOTAL						
TOTAL CONNECTED LOAD: _____				KVA								

(RM B-230)										PANELBOARD SCHEDULE										14 KA	
PANEL: 2HN1				277/480				V_3_PH_4_W				MAIN: 125A MLO				MOUNTING: SURFACE					
CKT NO.	POLE	BRKR.	SIZE	LOAD				PHASE	LOAD				POLE	BRKR.	SIZE	CKT NO.					
				DESCRIPTION					KVA	KVA	DESCRIPTION										
1	1	20		LTG. WEST OFFICES				4.0	A	3.8	LTG. ACCOUNTING OPEN & OFFICES				1	20	2				
3	1	20		LTG. OPEN OFFICES B223				3.0	B	3.9	LTG. ACCOUNTING OPEN OFFICES				1	20	4				
5	1	20		LTG. OPEN OFFICES B211A				3.0	C	3.4	LTG. CORRIDOR & N. CONFERENCE ROOMS				1	20	6				
7	1	20		LTG. CONFERENCE, REST RMS. & OFFICES				3.8	A	3.5	LTG. WEST OFFICES				1	20	8				
9	1	20		LTG. CORRIDOR B219				3.7	B	1.8	LTG. 2ND FLOOR LOBBY				1	20	10				
11	1	20		LTG. OPEN OFFICE AND OFFICES S.E.				3.7	C						1	20	12				
13	1	20							A		SPACE				1		14				
15	1	20							B		SPACE				1		16				
17	1	20							C		SPACE				1		18				
19	1	20							A		SPACE				1		20				
21	1	20							B		SPACE				1		22				
23	1	20							C		SPACE				1		24				
25	1		SPACE						A		SPACE				1		26				
27	1		SPACE						B		SPACE				1		28				
29	1		SPACE						C		SPACE				1		30				
SUBTOTAL										SUBTOTAL											
TOTAL CONNECTED LOAD: _____ KVA																					

(RM C-123)										1x4 PANELBOARD SCHEDULE			10 KA	
PANEL: 1LN1			120/208 V_3PH_4W			MAIN: 150A MCB			MOUNTING: SURFACE					
CKT NO.	POLE	BRKR. SIZE	LOAD				PHASE	LOAD				POLE	BRKR. SIZE	CKT NO.
			DESCRIPTION	KVA				DESCRIPTION	KVA					
1	1	20	RECPT. DOCK AREA	.4	A	.6	RECPT. C119, C120	1	20	2				
3	1	20	OVERHEAD DOOR C101	1.0	B	.6	RECPT. COURT YARD NORTH	1	20	4				
5	1	20	RECPT. C101, C102	.8	C	1.0	RECPT. DINING RM. B144	1	20	6				
7	1	20	RECPT. C118	.6	A	1.4	CHEMICAL FEED/WATER SOFTENER	1	20	8				
9	2	50	KILN	3.0	B	.8	RECPT. C123	1	20	10				
11	1	20		3.0	C	.8	RECPT. C123A	1	20	12				
13	2	40	BAILER	3.0	A	.8	RECPT. C121	1	20	14				
15	1	20		3.0	B	1.0	RECPT. C121, C122, C123	1	20	16				
17	1	20	EF-18	.6	C	.8	CHILLER #1	1	20	18				
19	1	20	EF-35,36	1.7	A	.8	CHILLER #2	1	20	20				
21	1	20	EF-34,37	1.7	B	1.0	UNIT HEATER 7, 8, 9, 10	1	20	22				
23	1	20	COOLING TOWER HEAT TRACE (EGFCI)		C	1.8	SF-2, LOUVER, RV-13	1	20	24				
25	1	20	COOLING TOWER HEAT TRACE (EGFCI)		A	.8	EF-18, RV-12	1	20	26				
27	1	20	EF-32, FCU-5, SF-3, RV-14	.7	B	.8	REVOLVING STORAGE	1	20	28				
29	1	30	DOCK LOCK SYSTEM	1.9	C	.8	REVOLVING STORAGE	1	20	30				
31	1	30	STB-1, (FAN, PUMP)	1.7	A	.8	REVOLVING STORAGE	1	20	32				
33	3	20	SPARE		B		SPARE	1	20	34				
35					C		SPARE	1	20	36				
37					A		SPARE	1	20	38				
39	3	30	SPARE		B		SPARE	1	20	40				
41					C		SPARE	1	20	42				
43					A		SPARE	1	20	44				
45	2	20			B	.4	ROOF MOUNTED RECEPT.	1	20	46				
47					C		SPARE	1	20	48				
49	2	60			A		LOADING DOCK SCALE	1	20	50				
51					B		SPARE	1	20	52				
53	2	30			C		SPARE	1	20	54				
55					A		PANEL 1LN1-2A ON STAIR LANDING	3	90	56				
57	2	50			B					58				
59					C					60				
SUBTOTAL							SUBTOTAL							
TOTAL CONNECTED LOAD: _____ KVA														

(RM B-230)										② PANELBOARD SCHEDULE										10 KA	
PANEL: 2LN1				120/208				V_3_PH_4_W				MAIN: 225A MCB				MOUNTING: SURFACE					
CKT NO.	POLE	BRKR. SIZE	LOAD				PHASE	LOAD				POLE	BRKR. SIZE	CKT NO.							
			DESCRIPTION		KVA			DESCRIPTION		KVA											
1	1	20	RECPT. B227, B228		1.0	A	.4	RECPT. B236			1	20	2								
3	1	20	RECPT. B226, B227		1.0	B	.4	RECPT. B236			1	20	4								
5	1	20	RECPT. B224, B225		1.0	C	.8	RECPT. B234, B235			1	20	6								
7	1	20	RECPT. B221A, OPEN OFFICE		.8	A	1.0	RECPT. B231A, B237, B238			1	20	8								
9	1	20	RECPT. B210		.8	B	1.4	RECPT. B238, COPIER			1	20	10								
11	1	20	RECPT. B209		1.0	C	.6	RECPT. B231			1	20	12								
13	1	20	RECPT. B207, B208		.8	A	.8	RECPT. B231			1	20	14								
15	1	20	RECPT. B206, B207		.8	B	.6	RECPT. B231			1	20	16								
17	1	20	RECPT. B205, B206		.8	C	1.0	RECPT. B232			1	20	18								
19	1	20	RECPT. B205		1.0	A	.8	RECPT. CORRIDOR B219			1	20	20								
21	1	20	RECPT. B204		.8	B	1.2	RECPT. B232, B233, B234			1	20	22								
23	1	20	RECPT. B211		.8	C	.6	RECPT. B229			1	20	24								
25	1	20	BATHROOM OUTLETS, B202, B203		.4	A	.6	RECPT. B214, B215, B216			1	20	26								
27	1	20	RECPT. B216, B217		1.0	B	.8	RECPT. B214, B215			1	20	28								
29	1	20	RECPT. B211A, OPEN OFFICE		.8	C	.8	RECPT. B211A, OPEN OFFICE			1	20	30								
31	1	20	RECPT. B211A, OPEN OFFICE		.8	A	1.0	RECPT. B218, E.W.C.			1	20	32								
33	1	20	RECPT. B211A, OPEN OFFICE		.8	B	1.2	RECPT. B212			1	20	34								
35	1	20	RECPT. B223, OPEN OFFICE		.8	C	.4	RECPT. B213			1	20	36								
37	1	20	RECPT. B223, OPEN OFFICE		.8	A	1.4	RECPT. B213, COPIER			1	20	38								
39	1	20	RECPT. B223, OPEN OFFICE		.8	B	1.2	EF-22, EF-23			1	20	40								
41	1	20	RECPT. B223, OPEN OFFICE		.8	C					1	20	42								
43	1	20	AHU-9 CONTROL		.8	A					1	20	44								
45	1	20	AHU-6 CONTROL		.8	B					1	20	46								
47	1	20	RECPT. B239		.6	C		AIR HANDLER UV LIGHTS			2	20	48								
49	1	20	RECPT. B239		.6	A							50								
51	1	20	RECPT. B222		.4	B		SPACE			1		52								
53	1	20	RECPT. B211A		.4	C		SPACE			1		54								
55	1	20				A	16	PANEL 1LN2 - ROOM B-132			3	125	56								
57	1		SPACE			B	16						58								
59	1		SPACE			C	16						60								
SUBTOTAL								SUBTOTAL													
TOTAL CONNECTED LOAD:						KVA															





BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

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OF AUTHORITY #000408

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
MENTAL HEALTH

REPLACE EMERGENCY  
GENERATOR,  
INFRASTRUCTURE  
ST. LOUIS FORENSIC  
TREATMENT CENTER -  
SOUTH  
5300 ARSENAL STREET  
ST. LOUIS, MO 63139

PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013-E-607.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
PANEL SCHEDULES  
- EQUIPMENT  
BRANCH

SHEET NUMBER:

E-607

GENERAL NOTES:

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553.

KEY NOTES:

1. PNLBD HAS TWO SEPARATE ENCLOSURES. CKTS 1–24 ARE IN SECTION 1 AND CKTS 25–60 ARE IN SECTION 2.
2. PNLBD HAS TWO SEPARATE ENCLOSURES. CKTS 1–42 ARE IN SECTION 1 AND CKTS 43–84 ARE IN SECTION 2.

(RM D–207) PANELBOARD SCHEDULE 10 kA									
PANEL: 2LN3		120/208 V_3_PH_4_W		MAIN: 200A MCB		MOUNTING: SURFACE			
CKT NO.	P.O.L.E.	BRKR. SIZE	LOAD DESCRIPTION	KVA	PHASE	LOAD DESCRIPTION	KVA	P.O.L.E.	CKT NO.
1	3	20	FITNESS ROOM RECPT – NORTH WALL	A	B	FITNESS ROOM RECPT – NORTH WALL	2	20	2
3				B					4
5				C		AHU–5, 10, 12 UV LIGHTS	2	20	6
7	1			A					8
9	1			B		AHU–11 UV LIGHTS	2	20	10
11	1			C					12
13	1			A				1	14
15	1			B				1	16
17	1			C				1	18
19	1			A				1	20
21	1			B				1	22
23	1			C				1	24
25	1			A				1	26
27	1			B				1	28
29	1			C				1	30
31	1			A				1	32
33	1			B				1	34
35	1			C				1	36
37	1			A				1	38
39	1			B				1	40
41	1			C				1	42
SUBTOTAL						SUBTOTAL			
TOTAL CONNECTED LOAD: _____				KVA					

(RM C-151)										(1) PANELBOARD SCHEDULE										10 kA	
PANEL: 1LN4				120/208 V_3_PH_4_W				MAIN: 150A MCB				MOUNTING: SURFACE									
CKT NO.	POLE	BRKR. SIZE	LOAD				KVA	PHASE	LOAD				POLE	BRKR. SIZE	CKT NO.						
			DESCRIPTION						DESCRIPTION												
1	1	20	RECPT. C164, D144				1.0	A	RECPT. C168, C169, D145				1	20	2						
3	1	20	RECPT. C161, C162, C163				1.2	B	RECPT. C167, C168				1	20	4						
5	1	20	RECPT. C161, C162, C163, C164				.8	C	RECPT. C166, C167				1	20	6						
7	1	20	RECPT. C161, C162, C163, C164, D144				1.0	A	BATHROOM OUTLET C149, C156				1	20	8						
9	1	20	RECPT. CORRIDOR B143, C157, C158, C160				1.0	B	WASHER RECPTACLE				1	20	10						
11	1	20	RECPT. CORRIDOR C107, C116, C117, C131-132				2.2	C	2 DRYER				2	30	12						
13	1	20	RECPT. C144				.8	A	2.6						14						
15	1	20	RECPT. C144				.6	B	RECPT. C155				1	20	16						
17	1	20	RECPT. C147				.8	C	RECPT. C154				1	20	18						
19	1	20	RECPT. C148				.4	A	RECPT. C134, C135				1	20	20						
21	1	20						B	RECPT. C133, C134				1	20	22						
23	1	20	RECPT. C165				.4	C	RECPT. C133				1	20	24						
25	1	20	BATHROOM OUTLETS, C126, C127 & C125				.6	A	RECPT. C112, C113				1	20	26						
27	1	20	RECPT. C128				.4	B	RECPT. C111, C113				1	20	28						
29	1	20	RECPT. C129, C130				1.0	C	RECPT. C109, C110, C111				1	20	30						
31	1	20	RECPT. C114				.8	A	RECPT. C108				1	20	32						
33	1	20	RECPT. C115				.8	B	RECPT. C108				1	20	34						
35	1	20	RECPT. E.W.C. CORRIDOR C132				.6	C	RECPT. C105				1	20	36						
37	1	20	RECPT. C137				.6	A	RECPT. C106, C108				1	20	38						
39	1	20	RECPT. C139				.6	B	RECPT. C102, C104				1	20	40						
41	1	20	PLUGMOLD STRIP C140				.8	C	RECPT. C102, C103				1	20	42						
43	1	20	PLUGMOLD STRIP C140				.8	A	EF-20				1	20	44						
45	3	30	RECPT. C140 TEST OUTLET					B	.6 RECEPT C136				1	20	46						
47								C					1	20	48						
49								A					1	20	50						
51	1		SPACE					B					1	20	52						
53	1		SPACE					C					1	20	54						
55	1		SPACE					A					1	20	56						
57	1		SPACE					B					1	20	58						
59	1		SPACE					C					1	20	60						
SUBTOTAL									SUBTOTAL												
TOTAL CONNECTED LOAD: _____										KVA											

(RM D-135)										② PANELBOARD SCHEDULE										10 kA	
PANEL: 1LN5				120/208				V_3_PH_4_W				MAIN: 125A MCB				MOUNTING: SURFACE					
CKT NO.	POLE	BRKR. SIZE	LOAD				KVA	PHASE	KVA	LOAD				POLE	BRKR. SIZE	CKT NO.					
			DESCRIPTION							DESCRIPTION											
1	1	20	RECPT. D146, D147				.8	A	.8	RECPT. D140, D141, D142, D143				1	20	2					
3	1	20	RECPT. D148, D149				.8	B	.8	RECPT. D141, D142, D143				1	20	4					
5	1	20	RECPT. D149				.6	C	.8	RECPT. D139, D149, D141, D142, D143				1	20	6					
7	1	20	RECPT. D150				.6	A	.8	RECPT. D138, D140				1	20	8					
9	1	20	RECPT. D151, E.W.C.				.6	B	.8	RECPT. D156, D157				1	20	10					
11	1	20	RECPT. CORRIDOR D152, D155, D153				.6	C	.8	RECPT. D158, D159				1	20	12					
13	1	20	RECPT. CORRIDOR D129, D153				.6	A	.8	RECPT. D159, D160				1	20	14					
15	1	20	RECPT. CORRIDOR D112, D123, D128				.6	B	.8	RECPT. D160, D161				1	20	16					
17	1	20	RECPT. D125, SOUTH WALL				.6	C	.6	RECPT. GYM D138, EAST WALL				1	20	18					
19	1	20	RECPT. D125, NORTH WALL				.4	A	.8	RECPT. GYM D138, NORTH WALL				1	20	20					
21	1	20	RECPT. D113, D124				.6	B	.6	RECPT. GYM D138, SOUTH WALL				1	20	22					
23	1	20	RECPT. D109, E.W.C.				.6	C	.8	RECPT. D135, D136, D137				1	20	24					
25	1	20	BATHROOM OUTLETS, D115, D116, D120, D122				.8	A	.8	RECPT. D127				1	20	26					
27	1	20	RECPT. D133, D134, SALES OFFICES				.8	B	.4	RECPT. EXTERIOR SOUTH WALL				1	20	28					
29	1	20						C						2	50	30					
31	1	20	EF-21				.6	A								32					
33	1	20	RECPT. SALES COUNTER				.8	B	1.0	RECPT. D126 REFRIGERATOR				1	20	34					
35	1	20	RECPT. SALES COUNTER				1.0	C	.4	RECPT. D126 COUNTERTOP				1	20	36					
37	1	20	RECPT. SALES COUNTER.				.6	A	1.0	LIGHT CONTROLLER				1	20	38					
39	1	20	RECPT. SALES STORAGE				.8	B						1	20	40					
41	1	20	RECEPT VENDING D130				.8	C						1	20	42					
43	1	20	RECEPT VENDING D130				.8	A						1	20	44					
45	1	20	RECEPT VENDING D130				.8	B						1	20	46					
47	1	20						C						1	20	48					
49	1	20						A						1	20	50					
51	1	20						B						1	20	52					
53	2	30	CANTEEN					C						1	20	54					
55								A						1	20	56					
57	1	20						B						1	20	58					
59	1	20						C						1	20	60					
SUBTOTAL									SUBTOTAL												
TOTAL CONNECTED LOAD: _____										KVA											

(RM B-147)										② PANELBOARD SCHEDULE										22 kA	
PANEL: 1LN6			120/208			V_3_PH_4_W			MAIN: 400A MLO			MOUNTING: FLUSH									
CKT NO.	POLE	BRKR. SIZE	LOAD				KVA	PHASE	LOAD				POLE	BRKR. SIZE	CKT NO.						
			DESCRIPTION			KVA			DESCRIPTION			KVA									
1	1	20	RECPT. SERVICE OF DRY STORAGE			.5	A	1.6	DISPOSER			3	20	2							
3	1	20	RECPT. DRY FOOD, COOK/CHILL			.8	B	1.6						4							
5	1	20	RECPT. BEVERAGE COUNTER			.8	C	1.6						6							
7	1	20	RECPT. 20 QUART MIXER			1.2	A	1.3	60 QUART MIXER			3	20	8							
9	1	20	RECPT. BAKERS TABLE			.8	B	1.3						10							
11	1	20	RECPT. HOT WATER DISPENSER			1.3	C	1.3						12							
13	3	20	60 QUART MIXER			1.3	A	2.3	DISPOSAL/TROUGHVEYOR			3	30	14							
15						1.3	B	2.3						16							
17						1.3	C	2.3						18							
19	3	20	DISPOSER			1.6	A	.8	RECPT. SOFT SERVE COUNTER			1	20	20							
21						1.6	B	1.0	RECPT. SOFT SERVE			1	20	22							
23						1.6	C	.8	RECPT. BACK BAR COUNTER			1	20	24							
25	1	20	SERVING COUNTER COMPRESSOR			1.2	A	.8	RECPT. STORAGE CABINET			1	20	26							
27	1	40	STEAM TABLE			1.4	B	.8	RECPT. DRY FOOD STORAGE TABLE			1	20	28							
29	1	20	HOT FOOD CABINET			.9	C	.36	EXHAUST HOOD LIGHTS			1	20	30							
31	1	20	REFRIGERATOR			1.3	A	3.7	GRIDDLE			3	40	32 *							
33	1	20	RECPT. DIETARY CONVENIENCE			1.4	B	3.7						34							
35	2	30	TOAST CONVEYOR			2.1	C	3.7						36							
37						2.1	A	2.3	HOT FOOD WELLS AT SERVING CTR.			3	40	38							
39	1	20	RECPT. SERVING CONVENIENCE			.8	B	2.3						40							
41	1	20	MICROWAVE			1.8	C	2.3						42							
43	1	20	COOK/CHILL HOOD LIGHTS			.36	A	1.17	TRAY ACCUMULATOR			1	20	44							
45	2	30	COFFEE MAKER			2.8	B	1.0	RECEPTACLE			1	20	46							
47						2.8	C	1.3	COOK/CHILL TUMBLER			3	20	48							
49	1	20	TEA BREWER			1.77	A	1.3						50							
51	1	30	COOK/CHILL RECORDER			2.4	B	1.3						52							
53	3	100	UTILITY DIST. PANEL			9.0	C	.8	RECEPT BEVERAGE COUNTER			1	20	54							
55						9.0	A					1	20	56							
57						9.0	B					2	20	58							
59	1	20	COOK/CHILL RECPT.			1.2	C							60							
61	3	80	ICE BUILDER			5.4	A					1	20	62							
63						5.4	B					1	20	64							
65						5.4	C					1	20	66							
67	3	20	ICE BUILDER CONDENSOR			2.1	A	1.2	SOFT SERVE MACHINE			2	30	68							
69						2.1	B	1.2						70							
71						2.1	C					1	20	72							
73	1	20	DROP IN COMPRESSOR			1.1	A					1	20	74							
75	2	30	FLOOR RECEPTACLE			2.0	B					2	20	76							
77						2.0	C							78							
79	1	20	FLOOR RECEPTACLE			1.5	A		SPACE			1		80							
81	1	20	VENDING			.6	B		SPACE			1		82							
83	1	20	MICROWAVE			.8	C		SPACE			1		84							
SUBTOTAL								SUBTOTAL													
TOTAL CONNECTED LOAD: _____ KVA										* SHUNT TRIP BREAKER											





BARRY D. FREINER  
Registered Professional Engineer  
MO # E-24220  
Expires 12-31-2022

ROGERS-SCHMIDT  
ENGINEERING CO., P.C.  
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1736 WEST PARK CENTER DR.  
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MISSOURI STATE CERTIFICATE  
OF AUTHORITY #000408

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
MENTAL HEALTH

REPLACE EMERGENCY  
GENERATOR,  
INFRASTRUCTURE  
ST. LOUIS FORENSIC  
TREATMENT CENTER -  
SOUTH  
5300 ARSENAL STREET  
ST. LOUIS, MO 63139

PROJECT # M1908-01  
SITE # 7355  
FACILITY # 6517335013

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 06-22-2022

CAD DWG FILE: M1908-01-7355-  
6517335013-E-608.DWG  
DRAWN BY: K E T  
CHECKED BY: B D F  
DESIGNED BY: B D F

SHEET TITLE:  
PANEL SCHEDULES  
- EQUIPMENT  
BRANCH

SHEET NUMBER:

E-608

GENERAL NOTES:

- A. PANELBOARD SCHEDULES ARE FROM ORIGINAL BLDG DWGS. ALL INFORMATION IS TO BE FIELD VERIFIED FOR THE ARC FLASH RISK ASSESSMENT STUDY PER SPECIFICATION SECTION 260573 AND NOTED ON "AS-BUILT" DWGS.
- B. PROVIDE UPDATED TYPEWRITTEN PNLBD CIRCUIT DIRECTORY FOR EACH PNLBD (NEW AND EXIST) PER SPECIFICATION SECTION 260553.

KEY NOTES:

1. PNLBD HAS TWO SEPARATE ENCLOSURES. CKTS 1–36 ARE IN SECTION 1 AND CKTS 37–60 ARE IN SECTION 2.

(RM E-05) ① PANELBOARD SCHEDULE 10 kA											
PANEL: WLN		120/208		V 3 PH 4 W		MAIN: 150A MCB		MOUNTING: SURFACE			
CKT NO.	W	PHASE	LOAD	KVA	W	PHASE	LOAD	POLE	BRK SIZE	THK	CKT NO.
1	1	20	BATHROOM OUTLET E70, E72	.8	A	.8	RECPT. E59, E76, E79, E82	1	20		2
3	1	20	BATHROOM OUTLET E61, E67	.8	B	.8	RECPT. E59, E76, E79, E82	1	20		4
5	1	20	BATHROOM OUTLET E75, E81	.8	C	.8	RECPT. E73, E76, E79, E82	1	20		6
7	1	20	CORRIDOR RECEPTACLES	1.4	A	.8	RECPT. E62, E65, E68, E73	1	20		8
9	1	20	CORRIDOR RECEPTACLES	1.2	B	.8	RECPT. E62, E65, E68, E73	1	20		10
11	1	20	RECPT. E58	.4	C	.8	RECPT. E59, E62, E65, E68	1	20		12
13	1	20	BATHROOM OUTLET E49, E54	.8	A	.8	RECPT. E47, E50, E52, E55	2	30		14
15	1	20	BATHROOM OUTLET E38, E43	.8	B	.8	RECPT. E47, E50, E52, E55				16
17	1	20	KITCHEN COUNTER OUTLETS	.8	C	.8	RECPT. E47, E50, E52, E55	1	20		18
19	1	20	REFRIDGERATOR	.9	A	.8	RECPT. E36, E39, E41, E44	1	20		20
21	1	20	MIRCOWAVE, ICE MACHINE	1.4	B	.8	RECPT. E36, E39, E41, E44	1	20		22
23	1	20	GARBAGE DISPOSAL, TRASH COMPACTOR	1.2	C	.8	RECPT. E36, E39, E41, E44	1	20		24
25	1	20	DAY ROOM RECPT.	.8	A	.8	RECPT. E86, E89, E91, E94	1	20		26
27	1	20	RECPT. E17, E18, E20	1.0	B	.8	RECPT. E86, E89, E91, E94	1	20		28
29	1	20	RECPT. E07	1.0	C	.8	RECPT. E86, E89, E91, E94	1	20		30
31	1	20	RECPT. E06	1.0	A	.8	RECPT. 97, E100, E102, E104	1	20		32
33	1	20	RECPT. E06, E12	.8	B	.8	RECPT. 97, E100, E102, E104	1	20		34
35	1	20	RECPT. E14, E15	1.2	C	.8	RECPT. 97, E100, E102, E104	1	20		36
37	1	20	RECPT. WATER FOUNTAIN	.8	A	2.6	DRYER	2	30		38
39	1	20	RECPT. E08, E09, E10	1.0	B	2.6					40
41	1	20	WASHER RECEPTACLE	1.4	C	.4	RECPT. E106, E108	1	20		42
43	1	20	RECPT. E34, E35, TELEPHONE	.8	A	.8	BATHROOM OUTLET E88, E93	1	20		44
45	1	20	RECPT. E27, E28	.8	B	.8	BATHROOM OUTLET E99, E104	1	20		46
47	1	20	RECPT. E28, E29, E30	.8	C	1.5	RADIANT PANELS	1	20		48
49	1	20	RECPT. E03, UH-1	.9	A	1.5	RADIANT PANELS	1	20		50
51	1	20			B	1.5	RADIANT PANELS	1	20		52
53	1	20			C			1	20		54
55	1	20			A			1	20		56
57	1	20			B			1	20		58
59	1	20			C			1	20		60
SUBTOTAL							SUBTOTAL				
TOTAL CONNECTED LOAD: _____ KVA											

WARD "E"

(RM G-05) ① PANELBOARD SCHEDULE 10 kA											
PANEL: WLN		120/208		V 3 PH 4 W		MAIN: 150A MCB		MOUNTING: SURFACE			
CKT NO.	W	PHASE	LOAD	KVA	W	PHASE	LOAD	POLE	BRK SIZE	THK	CKT NO.
1	1	20	BATHROOM OUTLET G70, G72	.8	A	.8	RECPT. G59, G76, G79, G82	1	20		2
3	1	20	BATHROOM OUTLET G61, G67	.8	B	.8	RECPT. G59, G76, G79, G82	1	20		4
5	1	20	BATHROOM OUTLET G75, G81	.8	C	.8	RECPT. G73, G76, G79, G82	1	20		6
7	1	20	CORRIDOR RECEPTACLES	1.4	A	.8	RECPT. G62, G65, G68, G73	1	20		8
9	1	20	CORRIDOR RECEPTACLES	1.2	B	.8	RECPT. G62, G65, G68, G73	1	20		10
11	1	20	RECPT. G58	.4	C	.8	RECPT. G59, G62, G65, G68	1	20		12
13	1	20	BATHROOM OUTLET G49, G54	.8	A	.8	RECPT. G47, G50, G52, G55	1	20		14
15	1	20	BATHROOM OUTLET G38, G43	.8	B	.8	RECPT. G47, G50, G52, G55	1	20		16
17	1	20	KITCHEN COUNTER OUTLETS	.8	C	.8	RECPT. G47, G50, G52, G55	1	20		18
19	1	20	REFRIDGERATOR	.9	A	.8	RECPT. G36, G39, G41, G44	1	20		20
21	1	20	MIRCOWAVE, ICE MACHINE	1.4	B	.8	RECPT. G36, G39, G41, G44	1	20		22
23	1	20	GARBAGE DISPOSAL, TRASH COMPACTOR	1.2	C	.8	RECPT. G36, G39, G41, G44	1	20		24
25	1	20	DAY ROOM RECPT.	.8	A	.8	RECPT. G86, G89, G91, G94	1	20		26
27	1	20	RECPT. G17, G18, G20	1.0	B	.8	RECPT. G86, G89, G91, G94	1	20		28
29	1	20	RECPT. G07	1.0	C	.8	RECPT. G86, G89, G91, G94	1	20		30
31	1	20	RECPT. G06	1.0	A	.8	RECPT. 97, G100, G102, G104	1	20		32
33	1	20	RECPT. G06, G12	.8	B	.8	RECPT. 97, G100, G102, G104	1	20		34
35	1	20	RECPT. G14, G15	1.2	C	.8	RECPT. 97, G100, G102, G104	1	20		36
37	1	20	RECPT. WATER FOUNTAIN	.8	A	2.6	DRYER	2	30		38
39	1	20	RECPT. G08, G09, G10	1.0	B	2.6					40
41	1	20	WASHER RECEPTACLE	1.4	C	.4	RECPT. G106, G108	1	20		42
43	1	20	RECPT. G34, G35, TELEPHONE	.8	A	.8	BATHROOM OUTLET G88, G93	1	20		44
45	1	20	RECPT. G27, G28	.8	B	.8	BATHROOM OUTLET G99, G104	1	20		46
47	1	20	RECPT. G28, G29, G30	.8	C	1.5	RADIANT PANELS	1	20		48
49	1	20	RECPT. G03, UH-3	.9	A	1.5	RADIANT PANELS	1	20		50
51	1	20			B	1.5	RADIANT PANELS	1	20		52
53	1	20			C			1	20		54
55	1	20			A			1	20		56
57	1	20			B			1	20		58
59	1	20			C			1	20		60
SUBTOTAL							SUBTOTAL				
TOTAL CONNECTED LOAD: _____ KVA											

WARD "G"

(RM F-05) ① PANELBOARD SCHEDULE 10 kA											
PANEL: WLN		120/208		V 3 PH 4 W		MAIN: 150A MCB		MOUNTING: SURFACE			
CKT NO.	W	PHASE	LOAD	KVA	W	PHASE	LOAD	POLE	BRK SIZE	THK	CKT NO.
1	1	20	BATHROOM OUTLET F70, F72	.8	A	.8	RECPT. F59, F76, F79, F82	1	20		2
3	1	20	BATHROOM OUTLET F61, F67	.8	B	.8	RECPT. F59, F76, F79, F82	1	20		4
5	1	20	BATHROOM OUTLET F75, F81	.8	C	.8	RECPT. F73, F76, F79, F82	1	20		6
7	1	20	CORRIDOR RECEPTACLES	1.4	A	.8	RECPT. F62, F65, F68, F73	1	20		8
9	1	20	CORRIDOR RECEPTACLES	1.2	B	.8	RECPT. F62, F65, F68, F73	1	20		10
11	1	20	RECPT. F58	.4	C	.8	RECPT. F59, F62, F65, F68	1	20		12
13	1	20	BATHROOM OUTLET F49, F54	.8	A	.8	RECPT. F47, F50, F52, F55	1	20		14
15	1	20	BATHROOM OUTLET F38, F43	.8	B	.8	RECPT. F47, F50, F52, F55	1	20		16
17	1	20	KITCHEN COUNTER OUTLETS	.8	C	.8	RECPT. F47, F50, F52, F55	1	20		18
19	1	20	REFRIDGERATOR	.9	A	.8	RECPT. F36, F39, F41, F44	1	20		20
21	1	20	MIRCOWAVE, ICE MACHINE	1.4	B	.8	RECPT. F36, F39, F41, F44	1	20		22
23	1	20	GARBAGE DISPOSAL, TRASH COMPACTOR	1.2	C	.8	RECPT. F36, F39, F41, F44	1	20		24
25	1	20	DAY ROOM RECPT.	.8	A	.8	RECPT. F86, F89, F91, F94	1	20		26
27	1	20	RECPT. F17, F18, F20	1.0	B	.8	RECPT. F86, F89, F91, F94	1	20		28
29	1	20	RECPT. F07	1.0	C	.8	RECPT. F86, F89, F91, F94	1	20		30
31	1	20	RECPT. F06	1.0	A	.8	RECPT. 97, F100, F102, F104	1	20		32
33	1	20	RECPT. F06, F12	.8	B	.8	RECPT. 97, F100, F102, F104	1	20		34
35	1	20	RECPT. F14, F15	1.2	C	.8	RECPT. 97, F100, F102, F104	1	20		36
37	1	20	RECPT. WATER FOUNTAIN	.8	A	2.6	DRYER	2	30		38
39	1	20	RECPT. F08, F09, F10	1.0	B	2.6					40
41	1	20	WASHER RECEPTACLE	1.4	C	.4	RECPT. F106, F108	1	20		42
43	1	20	RECPT. F34, F35, TELEPHONE	.8	A	.8	BATHROOM OUTLET F88, F93	1	20		44
45	1	20	RECPT. F27, F28	.8	B	.8	BATHROOM OUTLET F99, F104	1	20		46
47	1	20	RECPT. F28, F29, F30	.8	C	1.5	RADIANT PANELS	1	20		48
49	1	20	RECPT. F03, UH-2	.9	A	1.5	RADIANT PANELS	1	20		50
51	1	20			B	1.5	RADIANT PANELS	1	20		52
53	1	20			C			1	20		54
55	1	20			A			1	20		56
57	1	20			B		SPACE	1	20		58
59	1	20			C		SPACE	1	20		60
SUBTOTAL							SUBTOTAL				
TOTAL CONNECTED LOAD: _____ KVA											

WARD "F"

(RM H-05)										① PANELBOARD SCHEDULE										10 kA											
PANEL: WLNH										120/208 V_3_PH_4_W										MAIN: 150A MCB										MOUNTING: SURFACE	
CKT NO.	POLE	BRKR. SIZE	LOAD				WSP. PL.	KVA	LOAD				POLE	BRKR. SIZE	CKT NO.																
			DESCRIPTION						DESCRIPTION																						
1	1	20	BATHROOM OUTLET H70, H72				.8	A	.8	RECPT. H59, H76, H79, H82				1	20	2															
3	1	20	BATHROOM OUTLET H61, H67				.8	B	.8	RECPT. H59, H76, H79, H82				1	20	4															
5	1	20	BATHROOM OUTLET H75, H81				.8	C	.8	RECPT. H73, H76, H79, H82				1	20	6															
7	1	20	CORRIDOR RECEPTACLES				1.4	A	.8	RECPT. H62, H65, H68, H73				1	20	8															
9	1	20	CORRIDOR RECEPTACLES				1.2	B	.8	RECPT. H62, H65, H68, H73				1	20	10															
11	1	20	RECPT. H58				.4	C	.8	RECPT. H59, H62, H65, H68				1	20	12															
13	1	20	BATHROOM OUTLET H49, H54				.8	A	.8	RECPT. H47, H50, H52, H55				1	20	14															
15	1	20	BATHROOM OUTLET H38, H43				.8	B	.8	RECPT. H47, H50, H52, H55				1	20	16															
17	1	20	KITCHEN COUNTER OUTLETS				.8	C	.8	RECPT. H47, H50, H52, H55				1	20	18															
19	1	20	REFRIDGERATOR				.9	A	.8	RECPT. H36, H39, H41, H44				1	20	20															
21	1	20	MIRCOWAVE, ICE MACHINE				1.4	B	.8	RECPT. H36, H39, H41, H44				1	20	22															
23	1	20	GARBAGE DISPOSAL, TRASH COMPACTOR				1.2	C	.8	RECPT. H36, H39, H41, H44				1	20	24															
25	1	20	DAY ROOM RECPT.				.8	A	.8	RECPT. H86, H89, H91, H94				1	20	26															
27	1	20	RECPT. H17, H18, H20				1.0	B	.8	RECPT. H86, H89, H91, H94				1	20	28															
29	1	20	RECPT. H07				1.0	C	.8	RECPT. H86, H89, H91, H94				1	20	30															
31	1	20	RECPT. H06				1.0	A	.8	RECPT. 97, H100, H102, H104				1	20	32															
33	1	20	RECPT. H06, H12				.8	B	.8	RECPT. 97, H100, H102, H104				1	20	34															
35	1	20	RECPT. H14, H15				1.2	C	.8	RECPT. 97, H100, H102, H104				1	20	36															
37	1	20	RECPT. WATER FOUNTAIN				.8	A	2.6	DRYER				2	30	38															
39	1	20	RECPT. H08, H09, H10				1.0	B	2.6							40															
41	1	20	WASHER RECEPTACLE				1.4	C	.4	RECPT. H106, H108				1	20	42															
43	1	20	RECPT. H34, H35, TELEPHONE				.8	A	.8	BATHROOM OUTLET H88, H93				1	20	44															
45	1	20	RECPT. H27, H28				.8	B	.8	BATHROOM OUTLET H99, H104				1	20	46															
47	1	20	RECPT. H28, H29, H30				.8	C	1.5	RADIANT PANELS				1	20	48															
49	1	20	RECPT. H03, UH-4				.9	A	1.5	RADIANT PANELS				1	20	50															
51	1	20						B	1.5	RADIANT PANELS				1	20	52															
53	1	20						C						1	20	54															
55	1	20						A						1	20	56															
57	1	20						B						2	30	58															
59	1	20						C								60															
SUBTOTAL									SUBTOTAL																						
TOTAL CONNECTED LOAD: _____ KVA																															