GENERAL SPECIFICATIONS:

1. EXECUTE THE WORK REQUIRED IN A MANNER EVIDENCE BY THE "BEST TRADE PRACTICES" CONTRIBUTING TO EFFICIENCY OF OPERATION, MINIMUM MAINTENANCE, ACCESSIBILITY AND AESTHETICS OF THE INSTALLATION.
2. MECHANICAL AND ELECTRICAL PLANS ARE DIAGRAMMATIC IN NATURE, INTENDED TO INDICATE DESIGN INTENT ONLY. CONTRACTOR IS RESPONSIBLE TO COORDINATE SPECIFIC LOCATIONS OF ITEMS AND ADJUST AS REQUIRED TO ACCOMMODATE CODE REQUIREMENTS, MANUFACTURER'S INSTALLATION REQUIREMENTS, AND THE WORK OF OTHER TRADES.
3. MECHANICAL AND ELECTRICAL INFORMATION IS PRESENTED ON A REFERENCED BACKGROUND FLOOR PLAN. IN CASE OF CONFLICT BETWEEN BACKGROUND PLAN AND ARCHITECTURAL FLOOR PLAN, ARCHITECTURAL FLOOR PLAN SHALL GOVERN.
4. RUN ALL PIPING, CONDUIT, ETC. CONCEALED IN WALLS WHENEVER POSSIBLE.
5. AVOID EXPOSED INSTALLATION UNLESS SPECIFICALLY REQUIRED (TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS).
6. THE ENGINEER WILL NOT HAVE CONTROL OR CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES. ENGINEER IS NOT RESPONSIBLE FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK; AND WILL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THOSE DOCUMENTS PREPARED BY THE ENGINEER.
7. ALL CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH CURRENT CODES, INCLUDING: MICHIGAN BUILDING CODES, MICHIGAN PLUMBING CODE, MICHIGAN MECHANICAL CODE, NATIONAL ELECTRICAL CODE, MICHIGAN BUILDING REHABILITATION CODE (WHEN APPLICABLE), NFPA CODES, LIFE SAFETY CODE (WHEN APPLICABLE), AMERICANS WITH DISABILITIES ACT (A.D.A.) AND MICHIGAN BARRIER FREE CODES, DEPARTMENT OF PUBLIC HEALTH CODES (WHEN APPLICABLE), AND ALL OTHER LOCAL, STATE, AND FEDERAL APPLICABLE CODES. CONTRACTOR SHALL UTILIZE THE LATEST ADOPTED EDITIONS OF ALL CODES.
8. IF BIDDING CONTRACTOR WOULD LIKE TO SUBSTITUTE ANY SPECIFIED ELECTRICAL DEVICES, LIGHT FIXTURES, CONTROLLERS, PANELS, DISCONNECTS, VFD'S, ELEC. GEAR, ETC., THEY MUST PROVIDE SUBMITTAL TYPE DRAWINGS TO THE ENGINEER A MINIMUM OF 7 DAYS PRIOR TO BIDDING THE PROJECT. IF THESE APPROVAL DRAWINGS ARE NOT SUBMITTED AND ACCEPTED, THE SPECIFIED EQUIPMENT MUST BE USED - NO EXCEPTIONS.
9. EQUIPMENT AND MATERIALS SHALL BE U.L. APPROVED.
10. SECURE PERMITS AND INSPECTIONS REQUIRED BY STATE AND LOCAL LAWS AND ORDINANCES AND PAY ALL FEES AND EXPENSES IN CONNECTION THEREWITH AS A PART OF THEIR WORK UNDER THIS CONTRACT.
11. UPON COMPLETION OF WORK, FURNISH OWNER CERTIFICATES OF FINAL INSPECTION AND APPROVAL FROM AUTHORITIES HAVING JURISDICTION.
12. ALL CONDUCTORS SHALL BEAR IDENTIFICATION AS TO SIZE AND TYPE OF INSULATION, AND SHALL BE EQUIPPED WITH WIRE MARKERS INDICATING THE CIRCUIT NUMBER, WIRE NUMBER AND/OR PHASE LETTER.
13. IDENTIFY ELECTRICAL EQUIPMENT WITH THE NAME OF THE EQUIPMENT, THE EQUIPMENT CONTROLLED OR THE SYSTEM INVOLVED. DISCONNECT SWITCHES AND MOTOR STARTERS SHALL HAVE NAMEPLATES TO INDICATE THE EQUIPMENT THEY CONTROL. FOR NEW ELECTRICAL DEVICES AS NOTED ON RISER DIAGRAM, PROVIDE LAMINATED PLASTIC NAME PLATES WITH WHITE LETTERS.
14. EXISTING LIGHTING AND RE-USED RECEPTACLE PANELS SHALL HAVE NAMEPLATES DESIGNATING THEIR NAMES AND VOLTAGE RATING, SUCH AS LP-A, 120/208 VOLT, 3 PHASE, 4 WIRE. THE NAMEPLATES SHALL BE BLACK LAMINATED PLASTIC WITH WHITE CHARACTERS. THE CHARACTERS ON THE NAMEPLATES SHALL BE 1/4" HIGH, UNLESS OTHERWISE DIRECTED IN THE FIELD. THE CHARACTERS SHALL BE ENGRAVED ON THE NAMEPLATES.
15. THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE HIMSELF WITH CONDITIONS OF WHICH WILL AFFECT THE WORK HE IS TO PERFORM. THE SUBMISSION OF A PROPOSAL BY THIS CONTRACTOR SHALL BE CONCLUSIVE EVIDENCE THAT THIS CONTRACTOR HAS VISITED THE SITE AND HAS GIVEN PROPER CONSIDERATION AND EVALUATION OF THESE CONDITIONS IN THE PREPARATION OF HIS PROPOSAL. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE IN HIS BEHALF FOR EXTRA EXPENSE INCURRED DUE TO FAILURE OR NEGLECT ON HIS PART TO MAKE THIS VISIT AND EXAMINATION.
16. WHERE ACTIVE SEWERS, GAS, ELECTRIC, OR OTHER SERVICES ARE ENCOUNTERED DURING THE PERFORMANCE OF THIS CONTRACT, THE CONTRACTOR SHALL PROTECT, BRACE AND SUPPORT THEM AS REQUIRED. DO NOT PREVENT, INTERRUPT OR DISTURB OPERATION OF EXISTING SERVICES THAT ARE TO REMAIN. RELOCATE EXISTING SERVICES IF REQUIRED.
17. IN GENERAL, MOUNTING HEIGHTS ABOVE FINISHED FLOOR TO THE CENTERLINE OF BOXES AND EQUIPMENT SHALL BE AS PER AMERICANS WITH DISABILITIES ACT, AND MICHIGAN BARRIER FREE CODES.
18. MAINTAIN A MINIMUM OF 3'-0" CLEAR IN FRONT OF ALL ELECTRICAL EQUIPMENT (DISCONNECT SWITCHES, LIGHTING AND APPLIANCE AND DISTRIBUTION PANELS) FOR SERVICING PER N.E.C.
19. ALL WORK TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND LOCAL REQUIREMENTS. ALSO REFERENCE ARCHITECTURAL AND KITCHEN DWG'S.
20. WIRING TO BE MINIMUM #12 (FOR RUNS OVER 100 FEET, MINIMUM #10). ALL WIRING TO BE INSTALLED IN E.M.T. (THINWALL CONDUIT).
21. DEVICE PLATES FOR SWITCHES, RECEPTACLES, TELEPHONE, COMPUTER, ETC., SHALL MATCH EXISTING AS MANUFACTURED BY PASS AND SEYMOUR, HUBBELL, OR BRYANT. ALL DEVICES TO BE SPECIFICATION GRADE. ANY OTHER COLOR OF DEVICES SHALLS BE CHOSEN BY OWNER/ARCHITECT.
22. CONTRACTOR TO OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
23. ALL WORK AND MATERIALS SHALL BE GUARANTEED IN WRITING FOR (1) YEAR FROM PROJECT COMPLETION.
24. WORK SHALL BE PERFORMED BY SKILLED MECHANICS WELL VERSED IN THEIR PARTICULAR TRADES.
25. RESPONSIBILITY FOR CARE AND PROTECTION OF ELECTRICAL WORK RESTS WITH THE CONTRACTOR UNTIL IS HAS BEEN TESTED AND ACCEPTED.
26. CONTRACTOR IS TO CHECK DOOR SWINGS WITH ARCHITECTURAL PLANS AND MOUNT LIGHT SWITCHES, CONTROLS, ETC., ACCORDINGLY.
27. ELECTRICAL DEVICES SHALL BE SQUARE D, SIEMENS, EATON, G.E. OR MATCH EXISTING.
28. DISCONNECT SWITCHES SHALL BE NEMA HEAVY DUTY, FUSIBLE OR NON-FUSIBLE AS NOTED ON PLANS, WITH A NEMA 3R ENCLOSURE WHERE MOUNTED OUTDOORS.
29. THE NEUTRAL CONDUCTOR OF THE WIRING SYSTEM TOGETHER WITH THE CONDUIT SYSTEM AND SERVICE EQUIPMENT SHALL BE GROUNDED AND SIZED PER NEC ARTICLE 250.
30. HOLES THROUGH WALLS OR PARTITIONS REQUIRED FOR ELECTRICAL WORK SHALL BE NEATLY CUT TO SIZE. PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE FIRE-STOPPED BY APPROVED METHODS AND MATERIALS. NO BEAMS OR OTHER STRUCTURAL MEMBERS SHALL BE DRILLED, BURNED, OR CUT.
31. LOCATIONS OF WIRING DEVICES SUCH AS LIGHT SWITCHES, DUPLEX RECEPTACLES, THERMOSTATS, ETC., SHALL BE COORDINATED WITH OTHER TRADES.
32. IN GENERAL, ALL MOTORS ARE FURNISHED AND INSTALLED UNDER THE MECHANICAL SECTION OF THE SPECIFICATIONS. ALL STARTERS, FUSED SWITCHES, SAFETY SWITCHES, INCLUDING ALL POWER WIRING SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
33. OUTLET BOXES IN THE SAME WALL BUT SERVING DIFFERENT ROOMS SHALL BE AT LEAST 4" APART TO MINIMIZE NOISE TRANSMISSION. WHEN LOCATED ON FIRE WALLS, THEY SHALL BE 24" APART.
34. OCCUPANCY AND TOGGLE SWITCHES AS WELL AS RECEPTACLES SHALL BE SPECIFICATION GRADE, COLOR TO MATCH EXISTING.
35. LIGHTING AND CONTROL WIRING SHALL BE TESTED FOR SHORTS AND OPENS AND SHALL BE GIVEN A COMPLETE OPERATIONAL TEST.
36. THE CONTRACTOR SHALL TEST ALL CIRCUITS AS SOON AS CONDUCTORS ARE INSTALLED AND MAKE FINAL TESTS WHEN ALL WORK IS COMPLETE. IF CIRCUITS ARE NOT PROPERLY CONTROLLED AND INSULATED AT TIME OF EACH FINAL TEST, THE NECESSARY REPAIRS AND TESTS SHALL BE MADE AT THE CONTRACTORS EXPENSE.
37. NO DUCTWORK IS TO RUN ABOVE THE ELECTRICAL PANELS FOR 6' ABOVE THE PANELS PER 2017 N.E.C. KEEP PANEL AREAS CLEAR FOR 36" IN FRONT OF PANELS FROM FLOOR TO TOP OF PANELS FOR SERVICING PANELS PER N.E.C. COORDINATE LOCATIONS OF M.E.P. ITEMS WITH CONTRACTORS PRIOR TO CONSTRUCTION TO ASSURE THAT CLEARANCES ARE MET. LACK OF COORDINATION BETWEEN CONTRACTORS WILL NOT RESULT IN EXTRA MONEY AWARDED FOR RELOCATION OF M.E.P. ITEMS.
38. ALL BUSSING AND WIRING TO BE COPPER. NO ALUMINUM IS ALLOWED ON THIS PROJECT.
39. CHECK FINAL LOCATIONS OF LIGHT FIXTURES AND CEILING ELECTRICAL ITEMS WITH GRILLES AND REGISTERS, CAMERAS, FANS, SPRINKLER HEADS, ETC. COORDINATE WITH RESPECTIVE CONTRACTORS PRIOR TO INSTALLATION. NO MONEY WILL BE AWARDED TO CONTRACTORS HAVING TO RELOCATE ITEMS DUE TO LACK OF COORDINATION BETWEEN CONTRACTORS. MECHANICAL AND ELECTRICAL PLANS SHOW SCHEMATIC LOCATIONS ONLY.
40. ANY DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND ELECTRICAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
41. CONTRACTOR SHALL MAINTAIN AND KEEP AN UP-TO-DATE SET OF DRAWINGS REFLECTING "AS BUILT" CONDITIONS OF THEIR WORK. CONTRACTOR SHALL INDICATE EXACT DIMENSIONS AND ELEVATIONS FOR ALL UNDERGROUND AND/OR CONCEALED WORK. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL DELIVER TO THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR THE AS-BUILT DRAWINGS.
42. THE WIRING METHOD(S) USED SHALL BE SUITABLE FOR THE INSTALLATION AND USE IN CONFORMITY WITH THE PROVISIONS OF THE 2017 N.E.C. LISTED OR LABELED EQUIPMENT SHALL BE USED OR INSTALLED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING. REFER TO NEC, SECTION 110-3(a) AND (b).
43. ALL NEW ELECTRICAL DEVICES AND ASSOCIATED OUTLET BOXES SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. ALL CONDUIT AND WIRING SHALL BE CONCEALED. SURFACE RACEWAY AND ASSOCIATED BOXES SHALL ONLY BE PERMITTED WHERE NOTED, AND SHALL BE DISCUSSED WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
44. THE MAIN SERVICE DISCONNECTS SHALL BE IDENTIFIED AS THE MAIN SERVICE DISCONNECTION MEANS PER N.E.C. 2017, ARTICLE 230-70B.
45. FLASH PROTECTION WARNING SHALL BE PROVIDED AT ALL ELECTRICAL PANELS PER NEC 2017, SECTION 110.16
46. FIRST CLASS WORKABLE SYSTEMS SHALL BE PROVIDED BY THE CONTRACTOR. IF, IN THE OPINION OF THE CONTRACTOR, CHANGES IN THE DRAWINGS OR SPECIFICATIONS ARE REQUIRED TO PRODUCE FIRST-CLASS WORKABLE SYSTEMS, CONTRACTOR SHALL REQUEST AN INTERPRETATION FROM THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. IT THE CONTRACTOR FAILS TO MAKE SUCH A REQUEST, NO EXCUSE WILL THEREAFTER BE ENTERTAINED FOR FAILURE TO PROVIDE FIRST-CLASS WORKABLE SYSTEMS.
47. SHOP DRAWINGS ARE TO BE THOROUGHLY CHECKED (AND NOTED SO ON FRONT COVER) BY THE CONTRACTOR PRIOR TO SUBMITTING THEM TO THE ARCHITECT/ENGINEER. REVIEW BY THE ENGINEER, SHALL NOT BE CONSTRUED AS A COMPLETE CHECK, BUT ONLY THAT THE GENERAL METHOD OF CONSTRUCTION AND DETAILING IS SATISFACTORY. REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS WHICH MAY EXIST. SHOP DRAWINGS ARE TO BE SUBMITTED VIA INTERNET IN PDF FORM. NO HARD COPIES WILL BE ACCEPTED.
48. CONNECT ALL EMERGENCY AND EXIT BATTERY PACKS TO NEARBY LIGHTING CIRCUITS, AHEAD OF SWITCHES PER N.E.C. SO EMERGENCY/EXIT LIGHTS OPERATE ON LOSS OF POWER.
49. MANUALS: PER ASHRAE 2013, 90.1 STANDARDS, CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
    A. SUBMITTAL DATA FOR ALL ELECTRICAL EQUIPMENT CLEARLY STATING EQUIPMENT RATING , EXACTLY WHAT MODELS, ACCESSORIES, OPTIONS ARE INSTALLED.
    B. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
    C. NAMES AND ADDRESSES AND PHONE NUMBERS/EMAIL ADDRESSES FOR AT LEAST ONE QUALIFIED SERVICE AGENCY FOR EACH PIECE OF EQUIPMENT.
    D. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

GENERAL NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
2. LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND IN ACCORDANCE WITH N.E.C. AND LOCAL REQUIREMENTS.
3. CONTRACTOR SHALL FIELD VERIFY EXACT MOUNTING OF ALL EXIT LIGHTS PRIOR TO ORDERING.
4. EMERGENCY LIGHT FIXTURES SHALL BE CONTROLLED WITH NORMAL ROOM OR AREA LIGHTING VIA 924 INC. EMERGENCY CONTROL MODULE.
5. PROVIDE ALL BRANCH CIRCUIT WIRING REVISIONS AND CONNECTIONS REQUIRED TO ACCOMMODATE LIGHTING REVISIONS INDICATED OR SPECIFIED.
6. PROVIDE AN UNSWITCHED HOT TO ALL EMERGENCY BATTERY PACKS AND EXIT SIGNS. CONNECT TO THE SAME CIRCUIT AS THE NORMAL LIGHTING SERVING THE SURROUNDING AREA AHEAD OF ANY SWITCHING/CONTROLS.
7. ALL BRANCH CIRCUITS SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR AND GROUND CONDUCTOR. PROVIDE ADDITIONAL NEUTRAL CONDUCTOR WHERE REQUIRED.
8. MC CABLE MAY ONLY BE USED FOR FINAL CONNECTION TO LIGHT FIXTURES 6'-0" LENGTH MAX. BRANCH CIRCUIT HOME RUNS SHALL BE IN EMT.
9. CONDUITS LOCATED IN FINISHED AREAS MUST BE RECESSED IN WALLS OR LOCATED ABOVE FINISH CEILINGS. SURFACE MOUNTED CONDUIT WILL NOT BE ALLOWED UNLESS NOTED OTHERWISE.
10. JUNCTION BOXES SERVING BRANCH CIRCUIT WIRING SHALL BE LABELED WITH CIRCUITS BEING SERVED. USE INDELIBLE MARKER ON BOX COVER.
11. PROVIDE LABELS ON NEW LIGHT SWITCHES WITH CIRCUIT NUMBER AND PANEL DESIGNATION LOCATED IN AREA AFFECTED BY NEW SCOPE OF WORK.
12. REUSE BRANCH CIRCUITS MADE AVAILABLE FROM DEMOLITION. EXISTING LIGHTING CIRCUITS SHALL BE EXTENDED TO NEW LIGHTING FIXTURES AND ROOM CONTROLLERS (POWER PACKS). IDENTIFY UN-USED LIGHTING CIRCUITS AND REMOVE COMPLETE TO ELECTRICAL PANEL.
13. CIRCUIT NUMBERS INDICATED ON PLAN DO NOT INDICATE ACTUAL CIRCUIT BREAKERS POLE POSITION IN PANEL, BUT REPRESENT ITEMS GROUPED ON SAME CIRCUIT.
14. PROVIDE AS-BUILT DRAWINGS INDICATING ALL ACTUAL LIGHTING CIRCUITS.
15. FIELD VERIFY ALL PANELS AND EXISTING CIRCUITING SERVING EXISTING AND NEW LIGHT FIXTURES.
16. PROVIDE NEW TYPE WRITTEN PANEL LEGENDS FOR ALL PANELS AFFECTED BY NEW SCOPE OF WORK.
17. VERIFY DEVICE & COVERPLATE COLORS WITH ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
18. LIGHT SWITCHES ON THIS PLAN SHALL BE NEW, UNLESS OTHERWISE NOTED.
19. WHERE MULTIPLE SWITCHES ARE GROUPED TOGETHER, PROVIDE A SINGLE SHARED COVERPLATE.
20. FOR LIGHTING CONTROL AND OCCUPANCY SENSOR REQUIREMENTS, REFER TO SPECIFICATIONS.
21. OCCUPANCY SENSORS AND POWER PACKS SHALL BE RATED FOR THE LOAD INDICATED TO BE SERVED. PROVIDE MULTIPLE POWER PACKS WHERE REQUIRED.
22. MAINTAIN MANUFACTURER RECOMMENDED SPACING BETWEEN OCCUPANCY SENSORS AND HVAC DEFFUSERS AND FANS. ADJUST LOCATIONS AS REQUIRED.
23. UNLESS NOTED OTHERWISE, CONDUCTORS SHALL BE #12 AWG MINIMUM.
24. SEE ORIGINAL BUILDING DRAWINGS FOR EXISTING CIRCUIT LOCATIONS.
25. PROVIDE BLANK COVERPLATE FOR UN-USED WALL SWITCH BOXES.
26. PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES REFLECTING CIRCUIT CHANGES.
27. LIQUID TIGHT FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTION TO MOTORIZED EQUIPMENT 6'-0" LENGTH MAXIMUM.
28. EXTERIOR CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS) CONDUIT.
29. WHERE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE FROM THE MINIMUM SIZE THAT HAS SUFFICIENT AMPACITY FOR THE INTENDED INSTALLATION, WIRE-TYPE EQUIPMENT GROUNDING CONDUCTORS, WHERE INSTALLED, SHALL BE INCREASED IN SIZE PROPORTIONATELY ACCORDING TO THE CIRCULAR MIL AREA OF THE UNGROUNDED CONDUCTORS PER NEC 250.122(B).
30. ROOF PENETRATIONS SERVING MECHANICAL EQUIPMENT SHALL BE ROUTED THRU THE EQUIPMENT CURB AND COORDINATED WITH MECHANICAL TRADES.

GENERAL DEMOLITION NOTES:

1. EXISTING EQUIPMENT LAYOUT IS SCHEMATIC. EXACT LOCATION OF EXISTING EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO DEMOLITION.
2. DEMOLITION SHALL BE APPROVED BY THE OWNER PRIOR TO COMMENCEMENT AND SHALL BE PERFORMED UNDER REQUIREMENTS AND APPROVAL OF THE LOCAL CODE JURISDICTIONS.
3. PROTECT ALL EXISTING WORK WHICH IS TO REMAIN AND RESTORE IN AN APPROVED MANNER ANY SUCH WORK WHICH BECOMES DAMAGED. THIS INCLUDES BUT NOT LIMITED TO CEILING PROJECTORS, POWER POLES, WIFI ACCESS POINTS AND SMOKE DETECTORS.
4. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT BUILDING REPRESENTATIVE TO CLARIFY ANY ITEMS NOT SHOWN ON THESE DOCUMENTS OR SHOWN NOT MATCHING FIELD CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL EXAMINE THE PROJECT DOCUMENTS AND VISIT THE SITE AS THEY DEEM NECESSARY PRIOR TO SUBMITTING A BID. DO NOT RELY SOLELY ON THE ELECTRICAL PLANS FOR ALL DEMOLITION REQUIREMENTS. REVIEW ALL PROJECT DOCUMENTS PRIOR TO SUBMITTING A BID. IF A DEPARTURE FROM THE DESIGN INTENT OF THE DOCUMENTS IS REQUIRED DUE TO THE ACTUAL FIELD CONDITIONS OBSERVED BY THE CONTRACTOR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR RESOLUTION PRIOR TO SUBMITTING FINAL BID OR ENTERING INTO A CONTRACT FOR CONSTRUCTION. FAILURE TO PROVIDE THE ARCHITECT WITH NOTIFICATION SHALL RESULT IN THE CONTRACTOR BEING HELD RESPONSIBLE TO COMPLETE ALL WORK TO MEET THE DESIGN INTENT WITH NO ADDITIONAL COST BEING INCURRED BY THE OWNER.
6. THE DEMOLITION INFORMATION IS PROVIDED TO ASSIST WITH LABOR COSTS ASSOCIATED WITH THE ELECTRICAL SYSTEMS REMOVAL. THE DEMOLITION CONTRACTOR WILL REMOVE ELECTRICAL COMPONENTS AS NOTED, BUT NOT LIMITED TO THE DRAWINGS.
7. VERIFY EXTENT OF DEMOLITION WORK WITH INFORMATION SHOWN IN THE DRAWINGS AND WORK THAT IS NOT SHOWN AND MAY BE REQUIRED TO COMPLETE THE INTENDED WORK.
8. ALL WORK SHALL COMPLY WITH REQUIRED LOCAL CODES. CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED PERMITS AND INSPECTIONS FOR ALL WORK ASSOCIATED WITH THIS CONTRACT.
9. CONTRACTOR SHALL REPAIR ALL DISTURBED AREAS AS REQUIRED TO MATCH SURROUNDING EXISTING FINISHES NOT DISTURBED.
10. IN EXISTING AREAS, RENOVATION AND DEMOLITION WORK SHALL BE ACCOMPLISHED WITH MINIMAL DISRUPTION TO OPERATIONS. IF REQUIRED, THE OWNER RESERVES THE RIGHT TO TEMPORARILY STOP WORK OF SPECIFIC CONSTRUCTION OPERATIONS SHOULD THE OWNER IDENTIFY AN EMERGENCY OR DANGER EXISTS TO THE WELFARE OF THE OCCUPANTS ON ACCOUNT OF SUCH WORK OR OPERATIONS.
11. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL MATERIAL IN A LEGAL MANNER NOT SCHEDULED FOR REUSE UNDER THIS PROJECT.
12. CONFIRM WITH THE ARCHITECTS OFFICE AND/OR CONSTRUCTION MANAGER, PROJECT SCHEDULES AND REVIEW THE ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS PRIOR TO COMMENCING DEMOLITION.
13. USE CARE DURING THE DEMOLITION PHASE TO AVOID DAMAGE TO ANY GLAZED BLOCK, TILE OR BRICK VENEERED WALLS THAT ARE TO REMAIN.
14. DEMOLITION CONTRACTORS ARE RESPONSIBLE TO CONFIRM ALL QUANTITIES AND DEMOLITION REQUIRED. COMPLETE DEMOLITION IS NOT SHOWN ON THE DRAWINGS.
15. DISCONNECT, REMOVE AND/OR RELOCATE ALL ITEMS AS SHOWN. IF THERE ARE ANY ITEMS THAT ARE TO REMAIN, THEY ARE SPECIFICALLY NOTED SO ON THE DRAWINGS.
16. WHERE CONDUITS OR NON-METALLIC SHEATHED CABLE ARE ROUTED CONCEALED IN WALL CAVITIES OF WALL THAT ARE TO REMAIN, ABANDON THE CONDUIT AND/OR CABLE. CUT BACK TO THE POINT OF CONCEALMENT INSIDE THE WALL OR CEILING CAVITY. CUT AND REMOVE THE CONDUIT EXTING THE WALL CAVITY INTO THE CEILING SPACE. DISCONNECT AND REMOVE FEEDS FROM ELECTRICAL PANEL. REMOVE ALL SURFACE MOUNTED OUTLET BOXES ASSOCIATED WITH THE CONDUIT SYSTEMS.
17. DISCONNECT AND REMOVE ALL ELECTRICAL EQUIPMENT INCLUDING HANGERS, PULL BOXES, SWITCHES, LIGHT FIXTURES, CONDUIT AND WIRING FROM THE POINT OF CONCEALMENT TO THE EQUIPMENT. DISPOSE OF ALL ITEMS (SPECIAL ATTENTION TO LAMPS) AS REQUIRED BY LAW.
18. ELECTRICAL CONTRACTOR SHALL TAKE CARE WHEN REMOVING ELECTRICAL SYSTEMS. ALL WIRING THAT IS REQUIRED FOR POWER AND SPECIAL SYSTEMS ON OTHER FLOORS SHALL BE MAINTAINED.
19. EXISTING LIGHT FIXTURES MAY BE UTILIZED FOR TEMPORARY LIGHTING, ALL TEMPORARY SHALL REMAIN AFTER PROJECT IS DONE FOR OWNERS USE. ALL LIGHT FIXTURES THAT ARE REMOVED SHALL BE DISPOSED OF IN A LAWFUL WAY.
20. OWNER HAS FIRST RIGHTS TO ITEMS REMOVED.

ABBREVIATIONS:

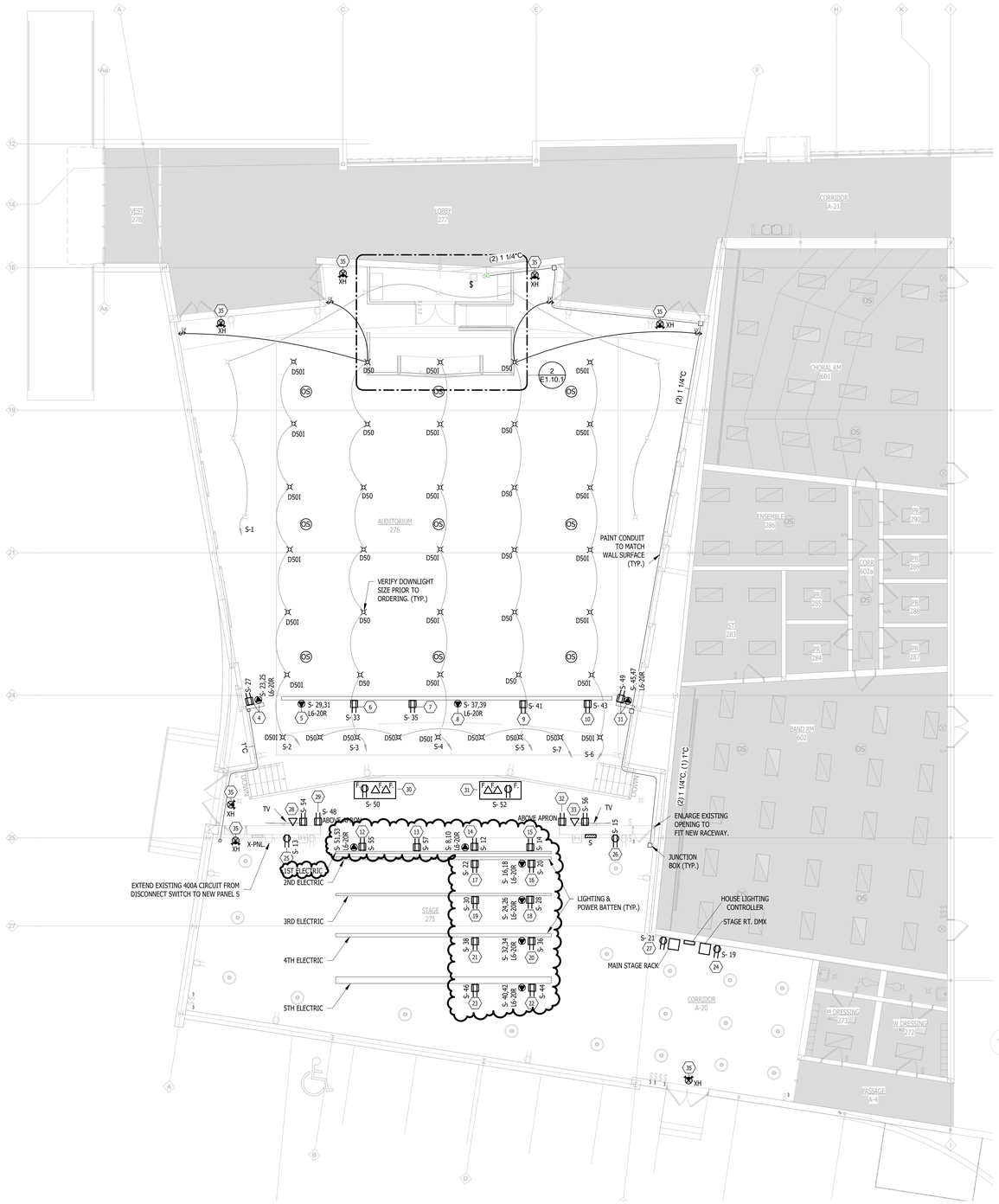
"	INCHES
#	NUMBER
'	FEET
1P	1 POLE (2P, 3P, 4P, ETC.)
@	AT
A	AMPERE
ABOVE CEILING	ACLG
ACT	ABOVE COUNTER
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFCI	ARC FAULT COMBINATION CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
APPROX	APPROXIMATELY
AQ-STAT	AQUA-STAT
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BF	BOTTLE FILLER
BLDG	BUILDING
BMS	BUILDING MANAEMENT SYSTEM
C	CONDUIT
C	CENTER LINE
CAB	CABINET
CAT	CATALOG
CAT6	CATEGORY 6 CABLING
CATV	CABLE TELEVISION
CB	CIR UIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CL	CONNECTED LOAD
COF	COFFEE MAKER
COMB	COMBINATION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUATION, CONTINUOUS
CONTR	CONTRACTOR
CP	CIRCULATING PUMP
CT	CURRENT TRANSOFORMER
CTR	CENTER
CU	COPPER
DCP	DOMESTIC WATER CIRCUITING PUMP
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DL	DEMAND LOAD
DN	DOWN
DPR	DAMPER
DS	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
ELEV	ELEVATOR
ELU	EMERGENCY LIGHTING UNIT
EM	EMERGENCY
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	ELECTRIC PNEUMATIC
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPLOSION PROOF
F	FLOOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FABP	FIRE ALARM BOOSTER SUPPLY PANEL
FACP	FIRE ALARM CONTROL PANEL
FASP	FIRE ALARM SLAVE PANEL
FCU	FAN COIL UNIT
FIXT	FIXTURE
FU	FUSE
FUDS	FUSED DISCONNECT SWITCH
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP	GYPSUM BOARD
HOA	HAND-OFF-AUTO SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HT	HEIGHT
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING & AIR CONDITIONING
I/W	INTERLOCK WITH
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT- AMPERE RECTIVE
KW	KILOWATT
KWC	KILOWATT CONNECTED
KWD	KILOWATT DEMAND
KWH	KILOWATT HOUR
LOC	LOCATE OR LOCATION
LP	LIGHTNING PEOTECTION
LT	LIGHT
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
M/C	MOMENTARY CONTACT
MAGS	MAGNETIC STARTER
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MFS	MAIN FUSED DISCONNECT SWITCH
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOA	MULTIOUTLET ASSEMBLY
MSBD	MAIN SWITCHBOARD
MSP	MOTOR STARTER PANELBOARD
MT	MOUNT
MT.C	EMPTY CONDUIT
MTR	MOTOR, MOTORIZED
MTS	MANUAL TRANSFER SWITCH
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELEC MFGR'S ASSOCIATION
NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOADS
P	PLATE
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PE	PNEUMATIC ELECTRIC
PED	PEDESTAL
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE

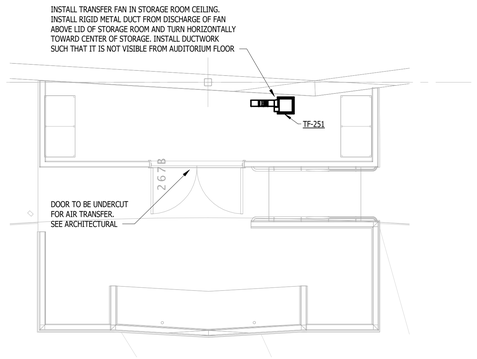
TRANSFER FAN SCHEDULE

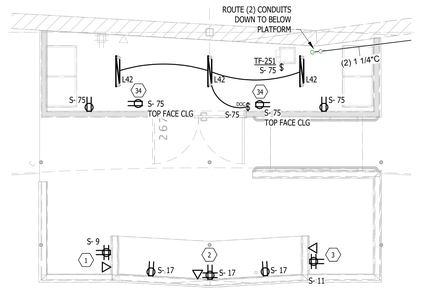
COMMENTS:
1. PROVIDE WITH STANDARD DESIGNER GRILLE.
2. PROVIDE WITH FACTORY MOUNTED DISCONNECT.
3. PROVIDE WITH ELECTRONICALLY COMMUTATED MOTOR WITH SPEED ADJUSTMENT. SPEED CONTROL TO BE USED FOR BALANCING PURPOSES.

ACCEPTABLE MANUFACTURERS: GREENHECK, COOK, BROAN, PANASONIC.

	BASIS OF DESIGN				FAN SPEED (RPM)				ELECTRICAL DATA		DISCONNECT BY				
TAG	MANUFACTURER	MODEL	CFM	E.S.P. (in-wg)	Fan RPM	Max Fan RPM	DRIVE TYPE	SONES	MOTOR POWER	VOLTAGE	M.T.C.	E.T.C.	VFD	CONTROL	COMMENTS
TF-251	Greenheck	SP-LP0810W	100	0.10	894	894	Direct	1.5	4.06 W	120V / 1Ø	X			CONTINUOUS OPERATION	1, 2, 3

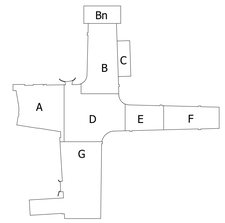






KEY NOTES:

1. A-1: 120V/20A AUXILLARY CIRCUIT WITH RECEPTACLES SIDE OF WORK DESK.
2. C-1: 120V/20A CIRCUIT WITH 3 QUAD RECEPTACLE BOXES UNDER WORK DESK EVENLY SPACED.
3. A-3: 120V/20A AUXILLARY CIRCUIT WITH RECEPTACLES SIDE OF WORK DESK.
4. L-1: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-2: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
5. L-3: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE.
6. L-4: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
7. L-5: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
8. L-6: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE.
9. L-7: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
10. L-8: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
11. L-9: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-10: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
12. L-11: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-12: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX. ELECTRIC BOXES ARE CLAMPED TO THE BATTEN FOR ALL FLOWN LINE SETS, REFER TO THE EQUIPMENT DIAGRAM FOR PLACEMENT. MOVE POWER CABLES OFF OF THE PIPE FOR INSTRUMENT CLEARANCE. USE STANDARD PRACTICES FOR POWER/DATA DISTRIBUTION TO THE LINE SETS. ALLOWING FOR ADJUSTMENT OF +/- 2' UP OR DOWN.
13. L-13: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE BOX.
14. L-14: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-15: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
15. L-16: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
16. L-17: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-18 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
17. L-19: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
18. L-20: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-21: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
19. L-22: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
20. L-23: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-24: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
21. L-25: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
22. L-26: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-27: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
23. L-28: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
24. C-2: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX. PROVIDE SHELF 2' WIDE BY 1' DEEP (10'-0" A.F.F.) FOR THE DMX DISTRIBUTORS.
25. A-3: 120V/20A AUXILLARY CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
26. A-4: 120V/20A AUXILLARY CIRCUIT WITH 1 QUAD RECEPTACLE BOX.
27. C-3: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX, ALSO ANOTHER 2-GANG BOX WITH 1 SWITCH CONTROLLING A DUPLEX RECEPTACLE. MOUNT MAIN STAGE A/V RACK 5'-0" A.F.F.
28. V-1: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX FRONT SIDE AND 1 QUAD RECEPTACLE BOX BACK SIDE FOR TV.
29. S-1: 120V/20A CIRCUIT WITH 1 DUPLEX RECEPTACLE FOR MAIN SPEAKER POWER. MOUNT TO WALL.
30. S-2: 120V/20A CIRCUIT WITH 1 QUAD RECESSED RECEPTACLE IN 4-GANG FLOOR BOX (OTHER 3 GANG ARE FOR XLR AND DMX). LOCATED IN EXISTING 4-GANG FLOOR POCKET WHICH WILL HAVE POWER, XLR, AND DMX CIRCUITS FOR VARIOUS EQUIPMENT.
31. S-3: 120V/20A CIRCUIT WITH 1 QUAD RECESSED RECEPTACLE IN 4-GANG FLOOR BOX (OTHER 2 GANG ARE FOR XLR AND DMX). LOCATED IN EXISTING 4-GANG FLOOR POCKET WHICH WILL HAVE POWER, XLR, AND DMX CIRCUITS FOR VARIOUS EQUIPMENT.
32. S-1: 120V/20A CIRCUIT WITH 1 DUPLEX RECEPTACLE FOR MAIN SPEAKER POWER. MOUNT TO WALL.
33. V-2: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX FRONT SIDE AND 1 QUAD EDISON RECEPTACLE BOX BACK SIDE FOR TV.
34. LOCATE ON TOP FACE OF CEILING.
35. CONNECT TO EXISTING CIRCUIT.



KEY PLAN

THE COLLABORATIVE +ACOCK

MEP CONSULTING ENGINEER
KTS ENGINEERING GROUP
491 E. WRIGHT AVE.
SHEPHERD, MI 48883
(PH) 989-567-1100
info@KTSEngineeringGroup.com
KTS PROJECT NO. 25-0275

PRELIMINARY - NOT FOR CONSTRUCTION
8/27/25
25-0275

PROJECT TITLE

Oscoda Area Schools

Oscoda High School Misc Renovation

3550 E River Road
Oscoda, Michigan 48750

09.23.2025	ADDENDUM 01
08.15.2025	CONSTRUCTION

TC JOB NO. 107348

OWNER JOB NO.

SHEET TITLE

FIRST FLOOR PLAN - UNIT A

SHEET NO.

E1.10.1

3 E1.10.1 MECHANICAL PLAN
1/4" = 1'-0"

1 E1.10.1 FIRST FLOOR PLAN - UNIT A
1/8" = 1'-0"

2 E1.10.1 ENLARGED PLAN
1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE PH1

TYPE	MFR/MODEL	VOLTAGE	DESCRIPTION	WATTAGE/FOOT	LUMEN OUTPUT	DISTRIBUTION/LENSING	COLOR TEMP	COMMENTS
D50	LITHONIA LIGHTING MODEL #LRM8-60LM-35K-MVOLT-G4-80CRI-HW-WH	120-277V	4" ROUND CAN LIGHT	52	6000	WIDE DISTRIBUTION/FROSTED CONVEX LENS	3500K	
D50I	LITHONIA LIGHTING MODEL #LRMX-60LM-35K-MVOLT-G4-80CRI-HW-WH	120-277V	HYPERBOLIC DOWNLIGHT	52	2006	WIDE DISTRIBUTION/FROSTED CONVEX LENS	3500K	PROVIDE 500W INVERTER FOR LIGHTING CIRCUIT INDICATED ON PLANS.
L42	LITHONIA LIGHTING MODEL #CLX-L24-5000LM-SEF-FDL-MVOLT-GZ10-35K-80CRI-WH	120-277V	LED LINEAR SURFACE MOUNT	42	5000	FLAT DIFFUSE LENS	3500K	
XH	LITHONIA LIGHTING MODEL #LHQM-LED-R-M6	120-277V	COMBINATION EXIT SIGN	4	300	DUAL LAMPS/POLYCARBONATE LENS	RED LETTERS	

CONDUIT SCHEDULE

RUN#	LOCATION 1	LOCATION 2	DESCRIPTION/TABLES	CONDUIT	NOTES
1	#2	#27	PRIMARY TRUNK FOR CONTROL SYSTEMS, 2X OM3 10G FIBER WITH LC ENDS, 8 X CAT6	REQUIRES 1X 2" UNBROKEN CONDUIT WITH PULL STRING, AND 1X JUNCTION BOX 16"X16"X8" AT LOCATION #27	JUNCTION BOX AT #27 ABOUT 5' AFF AND WILL BE A COMMON JUNCTION POINT FOR OTHER RUNS
2	#27	#33 (BACK SIDE)	PRIMARY DATA DISTRIBUTION ON STAGE, 31 X CAT6, 12 X AUDIO MIC CABLE	REQUIRES 2X 2" UNBROKEN CONDUIT WITH PULL STRING, AND 1X JUNCTION BOX 16"X16"X8" AT LOCATION #33 (BACK SIDE)	JUNCTION BOX AT #33 (BACK SIDE) ABOUT 10' AFF ON THE BACK SIDE (STAGE SIDE) OF PROSCENIUM WALL AND WILL BE A COMMON JUNCTION POINT FOR OTHER RUNS
3	#33 (BACK SIDE)	#28 (BACK SIDE)	DISTRIBUTION TO STAGE LEFT, 24 X CAT6, 9 X AUDIO MIC CABLE	REQUIRES 2X 2" UNBROKEN CONDUIT WITH PULL STRING, AND 1X JUNCTION BOX 16"X16"X8" AT LOCATION #28 (BACK SIDE)	JUNCTION BOX AT #28 (BACK SIDE) ABOUT 10' AFF ON THE BACK SIDE (STAGE SIDE) OF PROSCENIUM WALL AND WILL BE A COMMON JUNCTION POINT FOR OTHER RUNS
4	#28 (BACK SIDE)	#24	CABLING TO DMX CONVERTORS, 13 X CAT6, 2 X DMX	REQUIRES 1X 2" CONDUIT WITH PULL STRING, 1X JUNCTION BOX 8"X8"X8" AND 1X SINGLE GANG BOX FOR NETWORK AT #24	
5	#28 (BACK SIDE)	#25	CABLING TO STAGE LEFT PROSCENIUM I/O, 2X CAT6, 6 X AUDIO MIC CABLE	REQUIRES 1X 1" CONDUIT WITH PULL STRING, 1X SINGLE GANG BOX FOR NETWORK AND 1X 3-GANG BOX FOR 6X XLR JACKS AT #25	
6	#28 (BACK SIDE)	#29	CABLING TO MAIN RIGHT SPEAKERS, 3 X CAT6, 3 X AUDIO MIC CABLE	REQUIRES 1X 1" CONDUIT WITH PULL STRING	OPEN END AT CEILING FOR CABLES TO BE ROUTED TO THE SPEAKERS
7	#33 (BACK SIDE)	#26	CABLING TO STAGE LEFT PROSCENIUM I/O, 2 X CAT6, 6 X AUDIO MIC CABLE	REQUIRES 1X 1" CONDUIT WITH PULL STRING, 1X SINGLE GANG BOX FOR NETWORK AND 1X 3-GANG BOX FOR 6X XLR JACKS AT #25	
8	#33 (BACK SIDE)	#32	CABLING TO MAIN RIGHT SPEAKERS, 3 X CAT6, 3 X AUDIO MIC CABLE	REQUIRES 1X 1" CONDUIT WITH PULL STRING	OPEN END AT CEILING FOR CABLES TO BE ROUTED TO THE SPEAKERS
9	#28 (BACK SIDE)	#4	CABLING TO HOUSE RIGHT LADDER, 2 X CAT6, 1 X DMX	REQUIRES 1X 1" CONDUIT WITH PULL STRING	
10	#28 (BACK SIDE)	#5	CABLING TO HOUSE 1 LINE SET, 2 X CAT6, 2 X DMX	REQUIRES 1X 1" CONDUIT WITH PULL STRING	
11	#4	#11	CABLING TO HOUSE LEFT LADDER, 1 X CAT6, 1 X DMX	REQUIRES 1X 1" CONDUIT WITH PULL STRING	
12	#27	#31	CABLING TO STAGE RIGHT APRON BOX, 2 X CAT6, 4 X AUDIO MIC CABLE, 1 X SPEAKER WIRE	REQUIRES 1X 1" CONDUIT WITH PULL STRING, 1X 4-GANG BOX FOR 1X NETWORK, 1X DMX, 2X XLR JACKS, POWER AT #31	
13	#31	#30	CABLING BETWEEN APRON BOXES, 1 X CAT6, 2 X AUDIO MIC CABLE, 1 X SPEAKER WIRE, 1 X DMX	REQUIRES 1X 1" CONDUIT WITH PULL STRING, 1X 4-GANG BOX FOR 1X NETWORK, 2X DMX, 2X XLR JACKS, POWER AT #30	
14	#24	#30	CABLING FOR DMX TO APRON, 1 X DMX	REQUIRES 1X 1" CONDUIT WITH PULL STRING	THIS MAY BE ABLE TO BE ROUTED THROUGH A LONGER PATH OVERHEAD AND DOWN, BUT THAT GOES ACROSS TO #27 AND THEN BACK

ELECTRICAL CIRCUIT SCHEDULE

CIRCUIT LEGEND:

A: AUXILLIARY CIRCUIT

C: CONTROL SYSTEMS CIRCUIT

L: LIGHTING SYSTEM CIRCUIT

S: SOUND SYSTEM CIRCUIT

V: VIDEO SYSTEM CIRCUIT

PANEL LABELLING MUST IDENTIFY ALL LIGHTING CIRCUITS AND ALL SOUND CIRCUITS CLEARLY FOR SYSTEM STARTUP AND SHUTDOWN ON A REGULAR BASIS. HOUSE LIGHTING CIRCUITS ARE INCLUDED IN THE ELECTRICAL PANEL.

LOC.	DESCRIPTION	CIRCUITS	EST. AMPS.	NOTES
1	CONTROL BOOTH HOUSE RIGHT	A-1: 120V/20A AUXILLARY CIRCUIT WITH RECEPTACLES BOTH SIDES OF CONTROL DESK SPACED NORMALLY.		
2	CONTROL BOOTH UNDER DESK, MAIN BOOTH CONTROL RACK	C-1: 120V/20A CIRCUIT WITH 3 QUAD RECEPTACLE BOXES UNDER DESK EVENLY SPACED		
3	CONTROL BOOTH HOUSE LEFT	A-2: 120V/20A AUXILLARY CIRCUIT WITH RECEPTACLES BOTH SIDES OF CONTROL DESK SPACED NORMALLY.		
4	HOUSE RIGHT LIGHTING LADDER	L-1: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-2: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	4.13 & 5	
5	HOUSE 1 ELECTRIC (AUD. COVE)	L-3: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE	10.34	
6	HOUSE 1 ELECTRIC (AUD. COVE)	L-4: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	9.17	
7	HOUSE 1 ELECTRIC (AUD. COVE)	L-5: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	6.25	
8	HOUSE 1 ELECTRIC (AUD. COVE)	L-6: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE	9.3	
9	HOUSE 1 ELECTRIC (AUD. COVE)	L-7: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	6.25	
10	HOUSE 1 ELECTRIC (AUD. COVE)	L-8: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	9.17	
11	HOUSE LEFT LIGHTING LADDER	L-9: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-10: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	4.13 5	
12	FIRST ELECTRIC	L-11: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-12: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	12.55 & 6.25	ELECTRIC BOXES ARE CLAMPED TO THE BATTEN FOR ALL FLOWN LINE SETS, REFER TO THE DIAGRAM FOR PLACEMENT. ALSO, POWER CABLES MUST BE ABLE TO BE MOVED OFF THE PIPE FOR INSTRUMENT CLAMPS. PROVIDE BLACK VELCRO TO KEEP ALL CABLING AGAINST THE PIPE. DOES STAGE RACK HOUSE POWER/DATA DISTRIBUTION TO THE LINE SETS, ALLOWING FOR ADJUSTMENT OF +/- 2' UP OR DOWN.
13	FIRST ELECTRIC	L-13: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	5.8	
14	FIRST ELECTRIC	L-14: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-15: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	11.51 & 6.25	
15	FIRST ELECTRIC	L-16: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	5.8	
16	SECOND ELECTRIC	L-17: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-18: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	12.69 & 6.24	
17	SECOND ELECTRIC	L-19: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	4.16	
18	THIRD ELECTRIC	L-20: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-21: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	13.72 & 4.16	
19	THIRD ELECTRIC	L-22: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	2.08	
20	FOURTH ELECTRIC	L-23: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-24: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	12.69 & 4.16	
21	FOURTH ELECTRIC	L-25: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	2.08	
22	FIFTH ELECTRIC	L-26: 208-240V/20A CIRCUIT WITH 1 TWISTLOCK RECEPTACLE, L-27: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX	15.87	
23	FIFTH ELECTRIC	L-28: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX		
24	STAGE RIGHT DMX DISTRIBUTION (10' AFF), HOUSE LIGHT CONTROL/(DIMMERS), BREAKERS/POWER DISTRIBUTION	C-2: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX		PROVIDE SHELF 2' WIDE BY 1' DEEP (10' AFF) FOR THE DMX DISTRIBUTORS.
25	STAGE LEFT PROSCENIUM BACK WALL (16" AFF)	A-3: 120V/20A AUXILLARY CIRCUIT WITH 1 QUAD RECEPTACLE BOX		
26	STAGE RIGHT PROSCENIUM BACK WALL (16" AFF)	A-4: 120V/20A AUXILLARY CIRCUIT WITH 1 QUAD RECEPTACLE BOX		
27	STAGE RIGHT WING, MAIN STAGE RACK (5' AFF)	C-3: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX, ALSO ANOTHER 2-GANG BOX WITH 1 SWITCH CONTROLLING A DUPLEX RECEPTACLE		MAIN STAGE RACK FOR CONTROL AND SOUND SYSTEM
28	STAGE LEFT PROSCENIUM FRONT/BACK WALL (10' AFF, 6' OUT FROM PROSCENUIM)	V-1: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX FRONT SIDE AND 1 QUAD RECEPTACLE BOX BACK SIDE FOR TVS		THIS IS 10' ABOVE STAGE FINISH HEIGHT AND 6' OUT FROM THE PROSCENUIM EDGE ON BOTH SIDES OF THE WALL FOR TVS ON BOTH SIDES OF THE WALL - AUDIENCE TVS AND ACTOR TV MONITORS
29	STAGE LEFT CEILING ABOVE APRON	S-1: 120V/20A CIRCUIT WITH 1 DUPLEX RECEPTACLE FOR MAIN SPEAKER POWER		
30	STAGE LEFT APRON	S-2: 120V/20A CIRCUIT WITH 1 QUAD RECESSED RECEPTACLE IN 4-GANG FLOOR BOX (OTHER 2 GANG ARE FOR XLR AND DMX)		LOCATED IN A 4-GANG FLOOR POCKET WHICH WILL HAVE POWER, XLR, AND DMX CIRCUITS FOR VARIUS EQUIPMENT
31	STAGE RIGHT APRON	S-3: 120V/20A CIRCUIT WITH 1 QUAD RECESSED RECEPTACLE IN 4-GANG FLOOR BOX (OTHER 2 GANG ARE FOR XLR AND DMX)		LOCATED IN A 4-GANG FLOOR POCKET WHICH WILL HAVE POWER, XLR, AND DMX CIRCUITS FOR VARIUS EQUIPMENT
32	STAGE RIGHT CEILING ABOVE APRON	S-1: 120V/20A CIRCUIT WITH 1 DUPLEX RECEPTACLE FOR MAIN SPEAKER POWER		NOTE THIS IS THE SAME CIRCUIT AS IN LOCATION 29
33	STAGE RIGHT PROSCENIUM FRONT/BACK WALL (10' AFF, 6' OUT FROM PROSCENUIM)	V-2: 120V/20A CIRCUIT WITH 1 QUAD RECEPTACLE BOX FRONT SIDE AND 1 QUAD RECEPTACLE BOX BACK SIDE FOR TVS		THIS IS 10' ABOVE STAGE FINISH HEIGHT AND 6' OUT FROM THE PROSCENUIM EDGE ON BOTH SIDES OF THE WALL FOR TVS ON BOTH SIDES OF THE WALL - AUDIENCE TVS AND ACTOR TV MONITORS

Branch Panel: S

Location: STAGE 275
Supply From: MSB
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42 kAIC
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

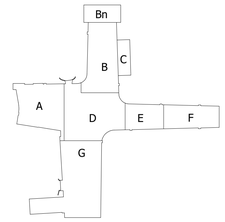
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lighting AUDITORIUM 276	20 A	1	176 VA	364 VA					1	20 A	Lighting AUDITORIUM 276	2
3	Lighting AUDITORIUM 276	20 A	1			154 VA	364 VA			1	20 A	Lighting AUDITORIUM 276	4
5	Lighting AUDITORIUM 276	20 A	1					154 VA	364 VA	1	20 A	Lighting AUDITORIUM 276	6
7	Lighting AUDITORIUM 276	20 A	1	88 VA	1197...								8
9	Receptacle A-1	20 A	1			360 VA	1197...			2	20 A	Receptacle L-14	10
11	Receptacle A-2	20 A	1					360 VA	249 VA	1	20 A	Receptacle L-15	12
13	Receptacle A-3	20 A	1	180 VA	249 VA					1	20 A	Receptacle L-16	14
15	Receptacle A-4	20 A	1			180 VA	1320...			2	20 A	Receptacle L-17	16
17	Receptacle C-1 CONTROL DESK	20 A	1					720 VA	1320...				18
19	Receptacle C-2 DMX DISTRIBUTION	20 A	1	180 VA	249 VA					1	20 A	Receptacle L-18	20
21	Receptacle C-3 MAIN STAGE RACK	20 A	1			180 VA	249 VA			1	20 A	Receptacle L-19	22
23	Receptacle L-1	20 A	2	430 VA	1427...			430 VA	1427...	2	20 A	Receptacle L-20	24
25													26
27	Receptacle L-2	20 A	1			249 VA	249 VA			1	20 A	Receptacle L-21	28
29	Receptacle L-3	20 A	2					1075...	249 VA	1	20 A	Receptacle L-22	30
31				1075...	1427...								32
33	Receptacle L-4	20 A	1			249 VA	1427...			2	20 A	Receptacle L-23	34
35	Receptacle L-5	20 A	1					249 VA	249 VA	1	20 A	Receptacle L-24	36
37	Receptacle L-6	20 A	2	967 VA	249 VA					1	20 A	Receptacle L-25	38
39						967 VA	1427...			2	20 A	Receptacle L-26	40
41	Receptacle L-7	20 A	1					249 VA	1427...				42
43	Receptacle L-8	20 A	1	249 VA	249 VA					1	20 A	Receptacle L-27	44
45	Receptacle L-9	20 A	2			1320...	249 VA			1	20 A	Receptacle L-28	46
47								1320...	180 VA	1	20 A	Receptacle S-1	48
49	Receptacle L-10	20 A	1	249 VA	180 VA					1	20 A	Receptacle S-2	50
51	Receptacle L-11	20 A	2			1305...	180 VA			1	20 A	Receptacle S-3	52
53								1305...	180 VA	1	20 A	Receptacle V-1	54
55	Receptacle L-12	20 A	1	249 VA	180 VA					1	20 A	Receptacle V-2	56
57	Receptacle L-13	20 A	1			249 VA	180 VA			1	20 A	X-Receptacle STAGE REAR	58
59	X-Lighting STAGE LEFT STAIR	20 A	1					22 VA	360 VA	1	20 A	X-Receptacle STAGE FRONT	60
61	X-Lighting STAGE RIGHT STAIR	20 A	1	22 VA	360 VA					1	20 A	X-Receptacle STAGE FRONT	62
63	X-Receptacle STAGE REAR	20 A	1			360 VA	360 VA			1	20 A	X-Receptacle STAGE FRONT	64
65	X-Receptacle FLOOR POCKET	20 A	1					360 VA	360 VA	1	20 A	X-Receptacle FLOOR POCKET	66
67	X-Receptacle FLOOR POCKET	20 A	1	360 VA	360 VA					1	20 A	X-Receptacle FLOOR POCKET	68
69	X-Receptacle FLOOR POCKET	20 A	1			360 VA	360 VA			1	20 A	X-Receptacle FLOOR POCKET	70
71	X-Receptacle FLOOR POCKET	20 A	1					360 VA	360 VA	1	20 A	X-Receptacle FLOOR POCKET	72
73	X-Receptacle AUDITORIUM REAR	20 A	1	720 VA	360 VA					1	20 A	X-Receptacle FLOOR POCKET	74
75	Receptacle Lighting Fan STORAGE ROOM	20 A	1			1145...	360 VA			1	20 A	X-Receptacle AUDITORIUM FRONT	76
77	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	78
79	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	80
81	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	82
83	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	84
			Total Load:	11795 VA		14998 VA		13327 VA					
			Total Amps:	98 A		127 A		113 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1833 VA	125.00%	2291 VA		
Receptacle	37986 VA	63.16%	23993 VA	**Total Conn. Load:**	40119 VA
Equipment	300 VA	100.00%	300 VA	**Total Est. Demand:**	26584 VA
				Total Conn.:	111 A
				Total Est. Demand:	74 A

Notes:

THE COLLABORATIVE +ACOCK



KEY PLAN

MEP CONSULTING ENGINEER

KTS ENGINEERING

491 E. WRIGHT AVE.
SHEPHERD, MI 48883
(PH) 989-567-1100
info@KTSEngineeringGroup.com
KTS PROJECT NO. 25-0275

PROJECT TITLE

Oscoda Area Schools

Oscoda High School Misc Renovation

3550 E River Road
Oscoda, Michigan 48750

09.23.2025	ADDENDUM 01
08.15.2025	CONSTRUCTION

TC JOB NO. 107348

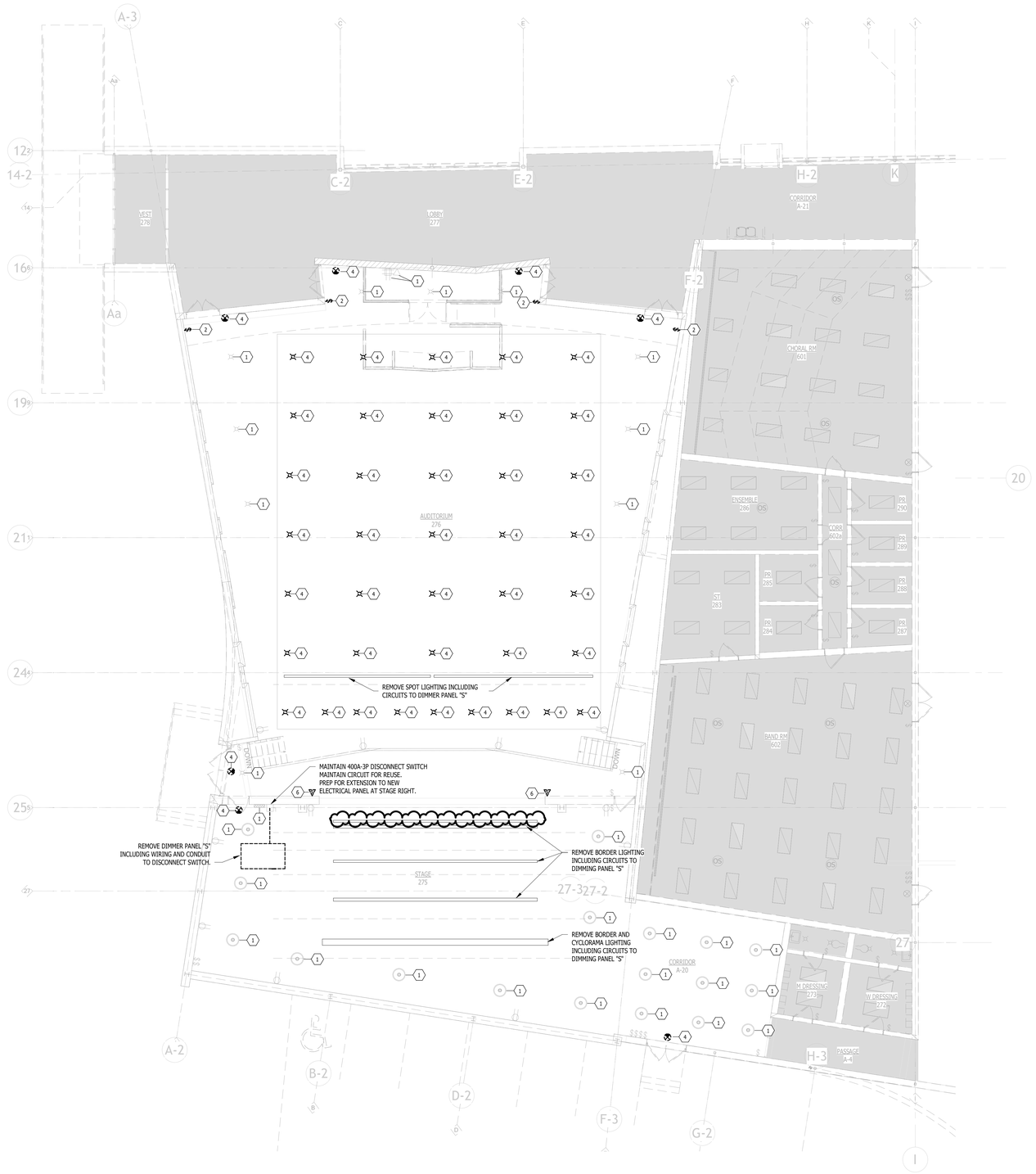
OWNER JOB NO.

SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NO.

E6.01.1



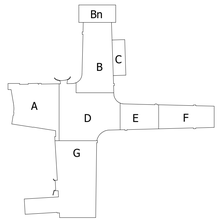
1 ED1.10.1 FIRST FLOOR DEMOLITION PLAN - UNIT A

1/8" = 1'-0"

KEY NOTES:

1 EQUIPMENT TO REMAIN TO REMAIN IN PLACE.
2 DISCONNECT AND REMOVE 120 VAC LIGHT SWITCH AND WIRING FROM LIGHT SWITCH TO FIRST ACTIVE CEILING JUNCTION BOX. PREP FOR INSTALLATION OF NEW LIGHTING SWITCH AND LOW VOLTAGE WIRING IN SAME LOCATION.
4 DISCONNECT AND REMOVE LIGHT FIXTURE. MAINTAIN EXISTING CIRCUIT AND PREP FOR NEW LIGHT FIXTURE IN SAME LOCATION.
6 DISCONNECT AND REMOVE INCLUDING WIRING AND CONDUIT TO SOURCE.

THE COLLAB ORATIVE +ACOCK



KEY PLAN

PRELIMINARY - NOT FOR CONSTRUCTION
9/27/25

MEP CONSULTING ENGINEER
KTS ENGINEERING GROUP
491 E. WRIGHT AVE.
SHEPHERD, MI 48883
(PH) 989-567-1100
info@KTSEngineeringGroup.com
KTS PROJECT NO. 25-0275

PROJECT TITLE

Oscoda Area Schools

Oscoda High School Misc Renovation

3550 E River Road
Oscoda, Michigan 48750

09.23.2025	ADDENDUM 01
09.12.2025	DESIGN DEVELOPMENT

TC JOB NO. 107348

OWNER JOB NO.

SHEET TITLE

FIRST FLOOR DEMOLITION PLAN - UNIT A

SHEET NO.

ED1.10.1