

# INTERIOR RENOVATIONS FOR: MARSHALL DISTRICT LIBRARY

124 W GREEN ST MARSHALL, MICHIGAN 49068

ISSUED:

04/12/2024 PERMIT  
06/14/24 ADDENDUM 1

## GENERAL NOTES:

- LIGHT GAUGE STEEL FRAMING TO CONFORM TO ASTM STANDARDS C-645 AND C-754.
- ALL DIMENSIONS ARE FROM FINISH FACE OF DRYWALL TO FINISH FACE OF DRYWALL OR FACE OF EXTERIOR WALL SHEATHING UNO.
- ALL CONSTRUCTION TO CONFORM TO APPLICABLE STATE AND LOCAL CODES.
- CONTRACTOR IS RESPONSIBLE FOR ALL APPLICABLE BUILDING INSPECTIONS.
- ALTHOUGH EVERY EFFORT HAS BEEN MADE TO REFERENCE EACH PARTICULAR CONSTRUCTION ISSUE, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE ENTIRE PROJECT IS COMPLETED IN A MANNER THAT IS IN ACCORDANCE TO THE INTENT OF THE DRAWINGS AND FULLY COMPLIES WITH ALL APPLICABLE CODES, REGULATIONS, AND MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND CONFIRM ALL EXISTING CONDITIONS AND TO NOTIFY THE OWNER AND ARCHITECT OF EXISTING CONDITIONS THAT ARE UNFORESEEN OR ARE DIFFERENT FROM CONDITIONS THAT ARE DEPICTED IN THE CONTRACT DOCUMENTS.
- DO NOT SCALE DRAWINGS. CONTACT ARCHITECT FOR DIMENSIONAL CLARIFICATIONS.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN A SAFE, CLEAN, AND ORDERLY WORK ENVIRONMENT DURING ALL PHASES OF CONSTRUCTION.
- ALL PRODUCTS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS RECOMMENDED BY RECOGNIZED INDUSTRY AND TRADE STANDARDS.
- ALL GYPSUM PRODUCTS SHALL BE INSTALLED PER THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND THE GUIDELINES AND SPECIFICATIONS PUBLISHED BY THE 'GYPSUM ASSOCIATION'.
- ALL OUTSIDE GYP. BD. CORNERS SHALL RECEIVE "NO-COAT" DRYWALL CORNER BEAD.
- ALL GYP. BD. SHALL RECEIVE A LEVEL 4 FINISH (BASED ON 'USG' GUIDELINES) FOR A SMOOTH MONOLITHIC APPEARANCE.
- ALL GYP. BD. SHALL BE ATTACHED TO FRAMING AS OUTLINED:
  - ADHERED WITH A CONT. BEAD OF DRYWALL ADHESIVE TO EACH FRAMING MEMBER. ADHESIVE SHALL MEET ASTM C57 STANDARDS AND BE INSTALLED PER THE ADHESIVE MANUFACTURER AND 'USG' RECOMMENDATIONS.
  - MECHANICALLY FASTENED WITH 1-5/8" TYPE 'S' BUGLE HEAD SCREWS.
  - GYP. BD. SHALL BE APPLIED PERPENDICULAR TO WALL AND CEILING FRAMING WITH SCREWS AT 16" OC AT ENDS, AT EACH FRAMING MEMBER ALONG EDGES, AND WITH ONE FIELD SCREW PER FRAMING MEMBER.
- ALL INTERIOR AND EXTERIOR PAINT SHALL BE FURNISHED AND INSTALLED PER THE 'ARCHITECTURAL PAINTING SPECIFICATION MANUAL', LATEST EDITION, PUBLISHED BY THE 'MASTER PAINTERS INSTITUTE'.
- ALL SEALANTS SHALL COMPLY WITH AND BE INSTALLED TO COMPLY WITH THE RECOMMENDATIONS IN 'ASTM C 1193' AS APPLICABLE TO THE MATERIALS, APPLICATIONS, AND CONDITIONS BEING USED.
- CONTRACTOR TO CAREFULLY REVIEW DRAWINGS AND REPORT ANY DISCREPANCIES TO ARCHITECT. THE CONTRACTOR SHALL ACCEPT RESPONSIBILITY FOR DISCREPANCIES IDENTIFIED AFTER AWARD OF THE CONTRACT AND THOSE DISCREPANCIES SHALL BE INTERPRETED PER THE SOLE DISCRETION OF THE ARCHITECT WITH NO ADVERSE IMPACT ON THE CONTRACT AMOUNT.
- THE GENERAL CONTRACTOR MAY SUBMIT SPECIFICATIONS FOR ALTERNATE MATERIALS AND FIXTURES FOR CONSIDERATION BY THE ARCHITECT FOR ALL SPECIFIED MATERIALS AND FIXTURES.
- EXIT AND TOILET ROOM DOORS SHALL BE IDENTIFIED WITH ACCESSIBLE SIGNAGE PER SECTION 110 MBC 2012 AND 703.4.5 ICC/ANSI - A117.1-2003

## INDEX OF DRAWINGS

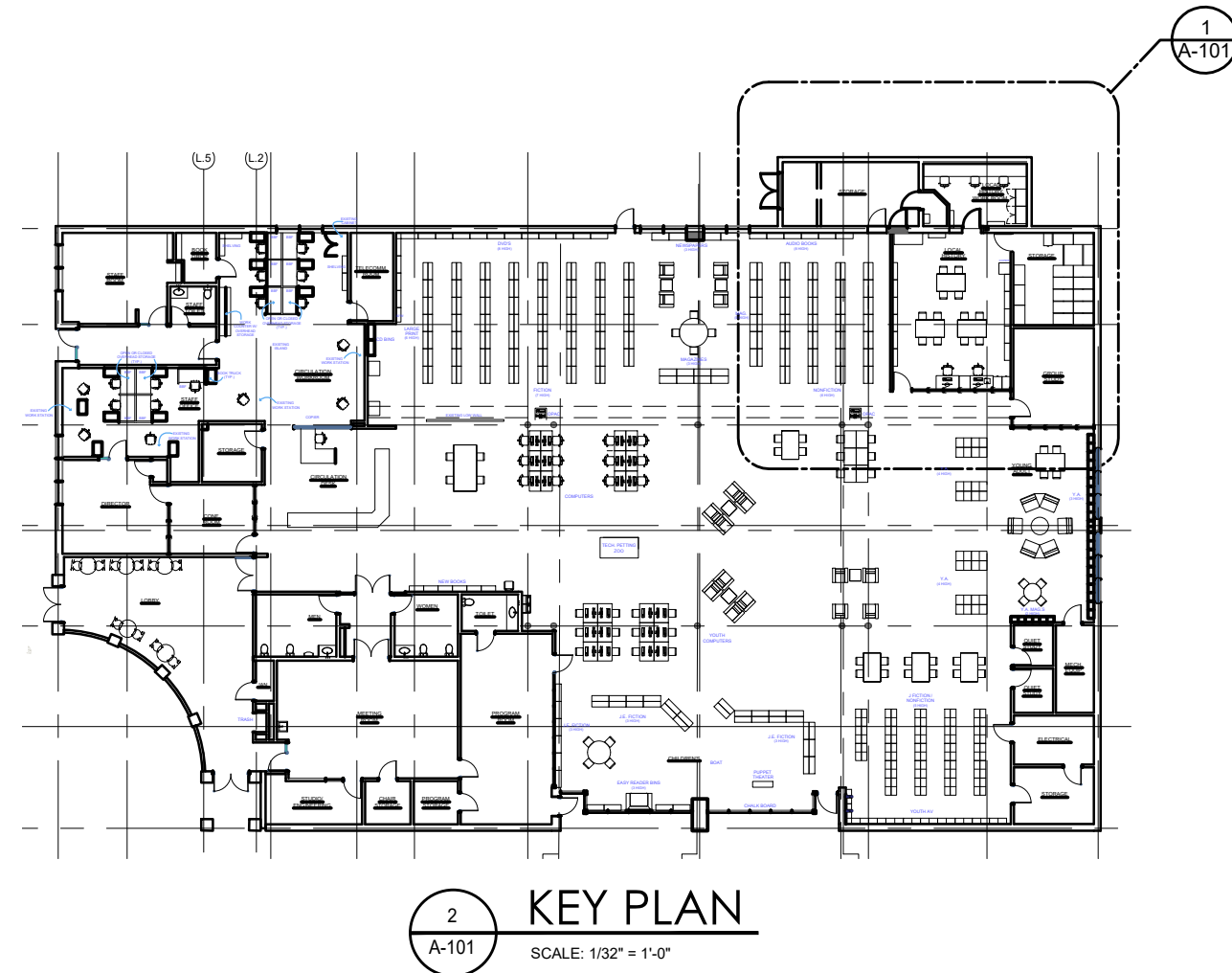
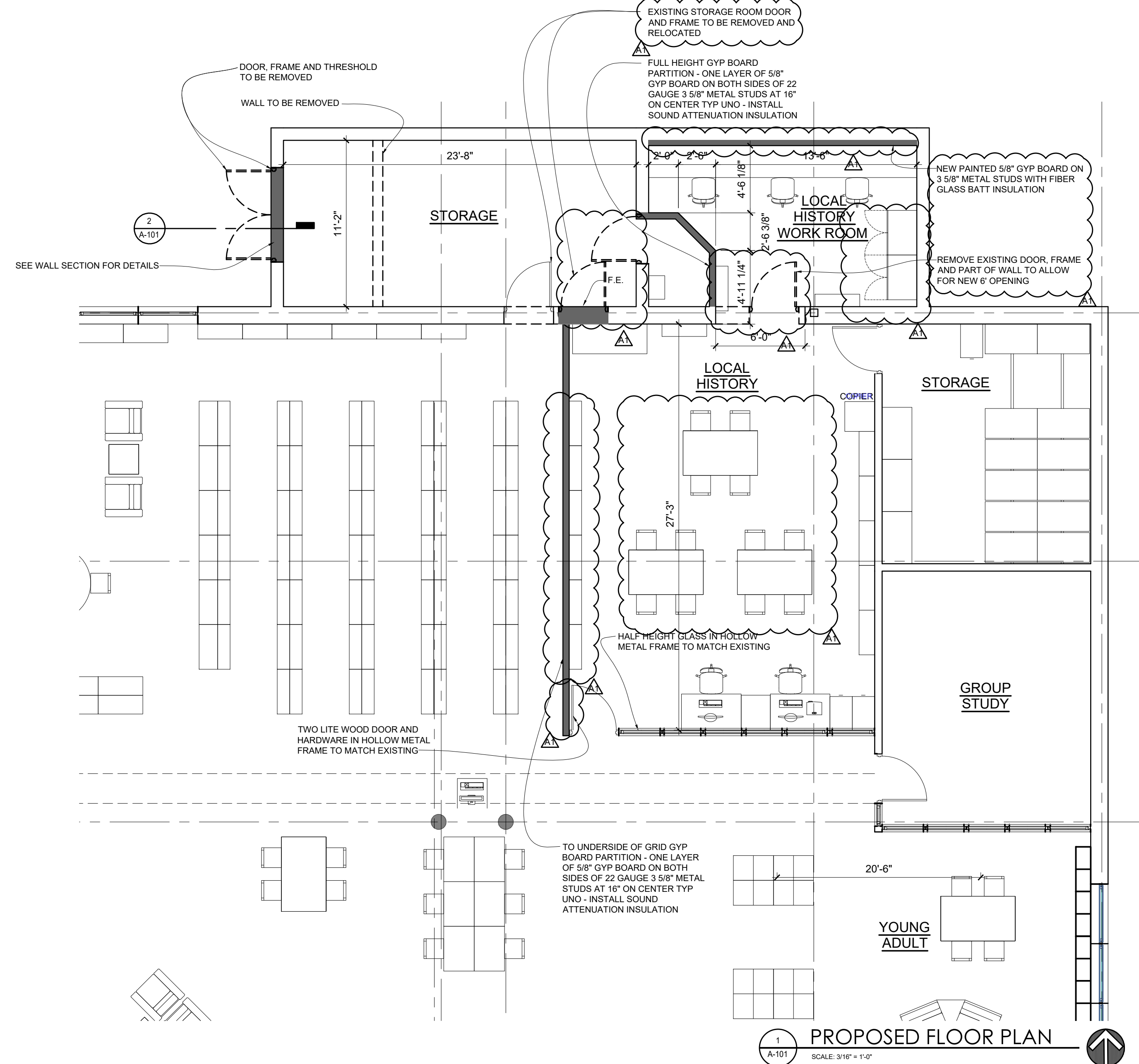
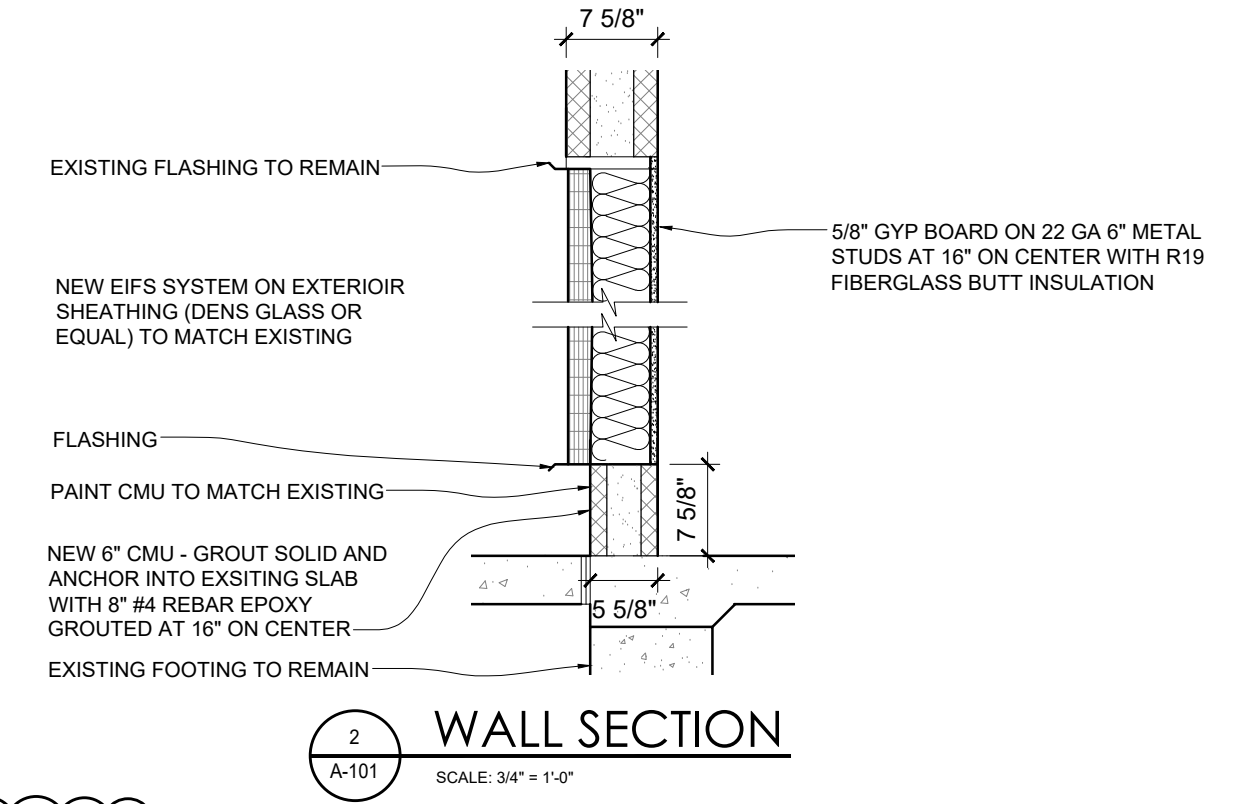
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E-001	ELECTRICAL LEGEND
E-101	ELECTRICAL LIGHTING AND POWER NEW WORK PLAN

## LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION (INCLUDING CEILING TILES AND GRID SYSTEM) TO BE REMOVED

## GENERAL NOTES

- ALL CONDITIONS AND DIMENSIONS ARE TO BE VERIFIED IN THE FIELD.
- NOTES TO ALIGN CONSTRUCTION OVERRIDE ANY DIMENSION GIVEN ON THE DRAWINGS UNLESS OTHERWISE DIRECTED BY THE ARCHITECT.
- VERIFY AND COORDINATE WITH THE ARCHITECT WHEN DISCREPANCIES OCCUR.
- CONTRACTOR TO COORDINATE EXISTING CONDITIONS AND DEMOLITION WITH NEW WORK.



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**MARSHALL DISTRICT LIBRARY RENOVATIONS**  
124 W GREEN ST.  
MARSHALL,  
MICHIGAN 49068

COVER SHEET & PROPOSED FLOOR PLAN



DRAWN BY: GS

APPROVED BY: SS

PROJECT NO. SHEET NO.

23283 A-101



### DEMOLITION NOTES:

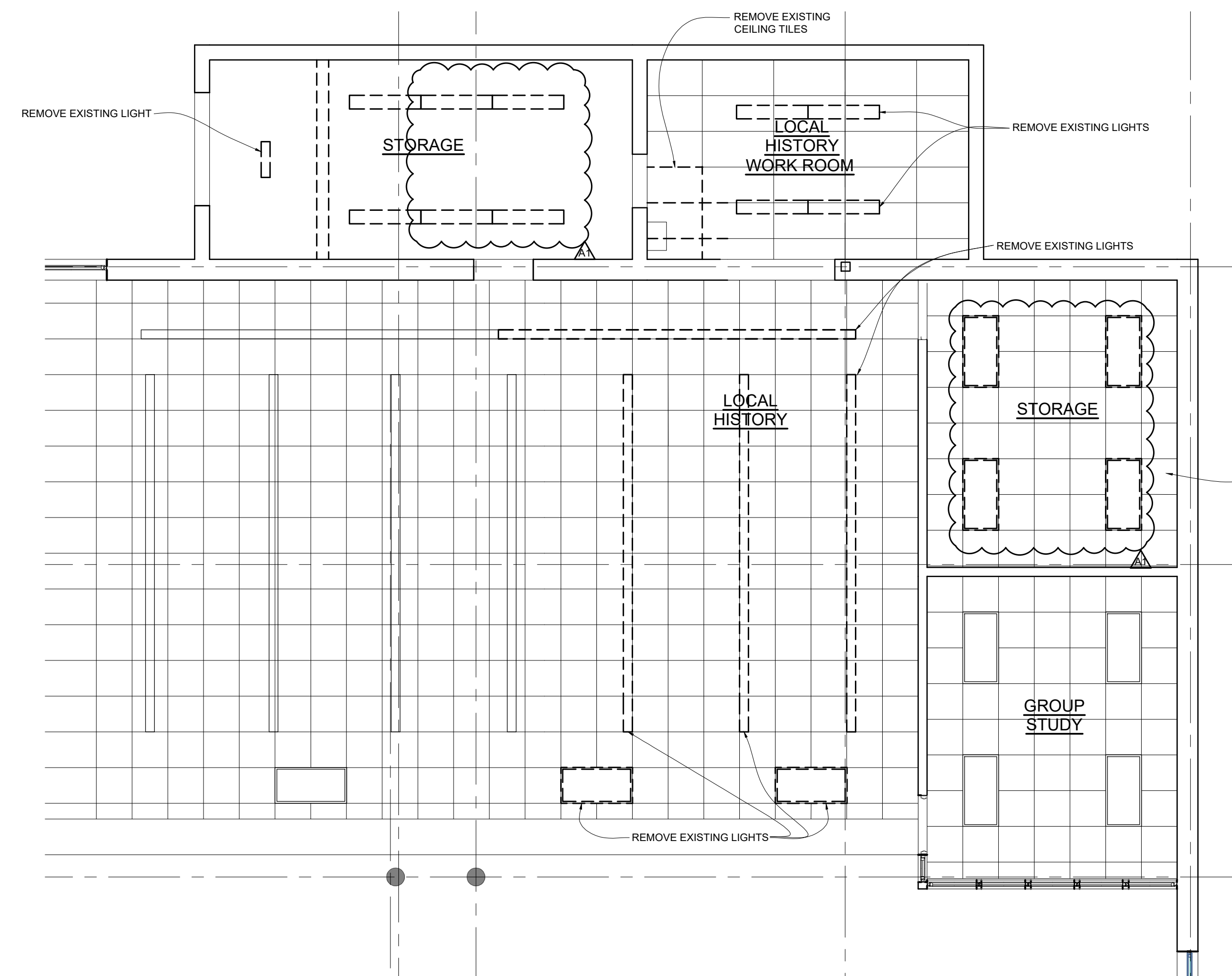
- DASHED LINES DENOTE EXISTING CONSTRUCTION TO BE REMOVED (UNO)
- CONTRACTOR SHALL COMPLETELY REMOVE ALL ELECTRICAL HARDWARE, CABLES, ETC. LOCATED IN EXISTING WALLS TO BE REMOVED.
- ALL ELECTRICAL REMOVAL SHALL BE COMPLETE AND BACK TO EITHER THE SOURCE OR TO A POINT OF CONNECTION FOR NEW ELECTRICAL FIXTURE TIE IN, INCLUDING, BUT NOT LIMITED TO, CONDUIT, WIRE, BOXES, LOW VOLTAGE DEVICES, SWITCHES, AND FIXTURES.
- DEMOLITION CONTRACTOR TO PROVIDE TEMPORARY SHORING/ BRACING AS REQUIRED DURING THE REMOVAL OF STRUCTURAL ELEMENTS & SELECTIVE DEMOLITION.
- SEE FLOOR PLAN FOR DIMENSIONS AND LOCATIONS OF NEW CONSTRUCTION.
- CAREFULLY REMOVE ALL MATERIALS AS INDICATED AND PROPERLY LEGALLY DISPOSE AS REQUIRED IN CONTRACTOR SUPPLIED DUMPSTERS.
- FOR ITEMS TO BE REMOVED- REMOVE ALL MISCELLANEOUS ITEMS/ ACCESSORIES RELATED TO MATERIALS REMOVAL.
- CAREFULLY DISMANTLE, REMOVE, SALVAGE & PROTECT ANY DEMOLITION OR REMOVABLE ITEMS TO BE RE-USED AS INDICATED IN THE DRAWINGS AND AS DIRECTED BY THE OWNER OR ARCHITECT IN SUCH A MANNER AS TO PREVENT DAMAGE.
- CONTRACTOR IS RESPONSIBLE TO REPLACE/REPAIR ANY DAMAGE INCURRED TO EXISTING BUILDING/PROPERTY AS A RESULT OF DEMOLITION ACTIVITIES.
- ALL DEMOLITION WORK TO CONFORM TO LOCAL CODES/ORDINANCES AND BE DONE IN SUCH A MANNER AS TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THE OWNERS, NEIGHBORS, SUB-CONTRACTORS, GENERAL PUBLIC. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY TO THE OWNER OF ANY POTENTIAL RISKS PRIOR TO DEMOLITION WORK.
- PROTECT WALLS, CEILINGS, FLOORS, AND OTHER EXISTING FINISH WORK THAT IS TO REMAIN AND IS EXPOSED DURING SELECTIVE DEMOLITION OPERATIONS.
- UPON DEMOLITION REMOVAL OF ITEMS THE CONTRACTOR IS RESPONSIBLE TO CLEAN EXISTING SURFACES FOR NEW FINISHED APPEARANCE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND CONFIRM ALL EXISTING CONDITIONS AND TO NOTIFY THE OWNER AND ARCHITECT OF EXISTING CONDITIONS THAT ARE UNPRESSED OR ARE DIFFERENT FROM CONDITIONS THAT ARE DEPICTED IN THE CONTRACT DOCUMENTS.
- CONTRACTORS ARE ENCOURAGED TO VISIT THE SITE TO UNDERSTAND THE SCOPE OF SELECTIVE DEMOLITION PRIOR TO SUBMITTING BIDS.
- CONTRACTOR TO PROVIDE TEMPORARY SHORING & BRACING OF LOAD BEARING STRUCTURE AS REQUIRED.
- CONTRACTOR TO COORDINATE WITH OWNER TO IDENTIFY ITEMS TO BE REMOVED AND SALVAGED FOR REUSE- CONTRACTOR TO STORE SALVAGED ITEMS IN A SECURE, PROTECTED, AREA UNTIL REINSTALLATION OCCURS.

### LEGEND

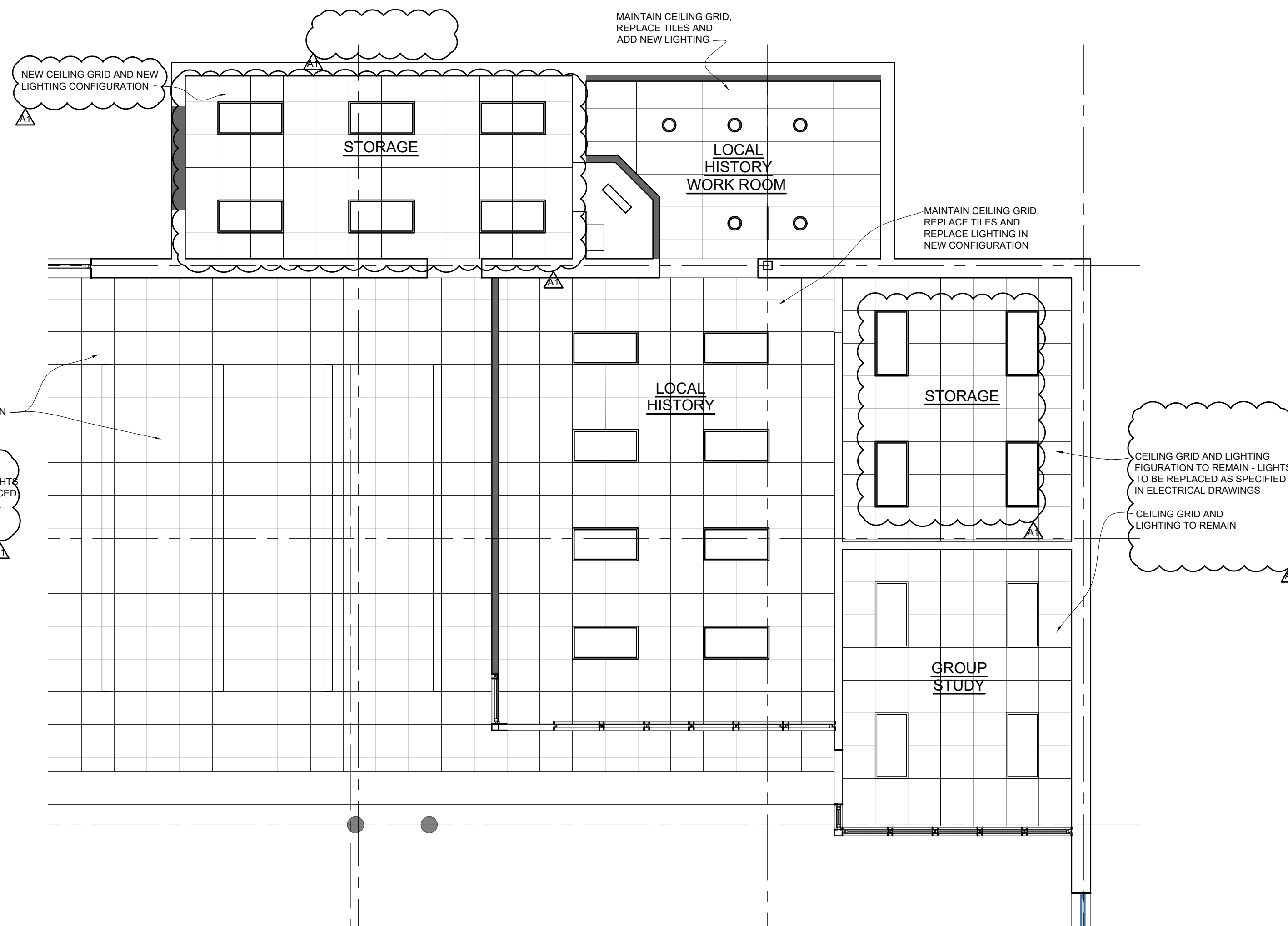
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### GENERAL NOTES

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- CONTRACTOR TO COORDINATE EXISTING CONDITIONS AND DEMOLITION WITH NEW WORK.



1  
A-101  
DEMOLITION CEILING PLAN  
SCALE: 3/16" = 1'-0"



1  
A-101  
PROPOSED CEILING PLAN  
SCALE: 3/16" = 1'-0"



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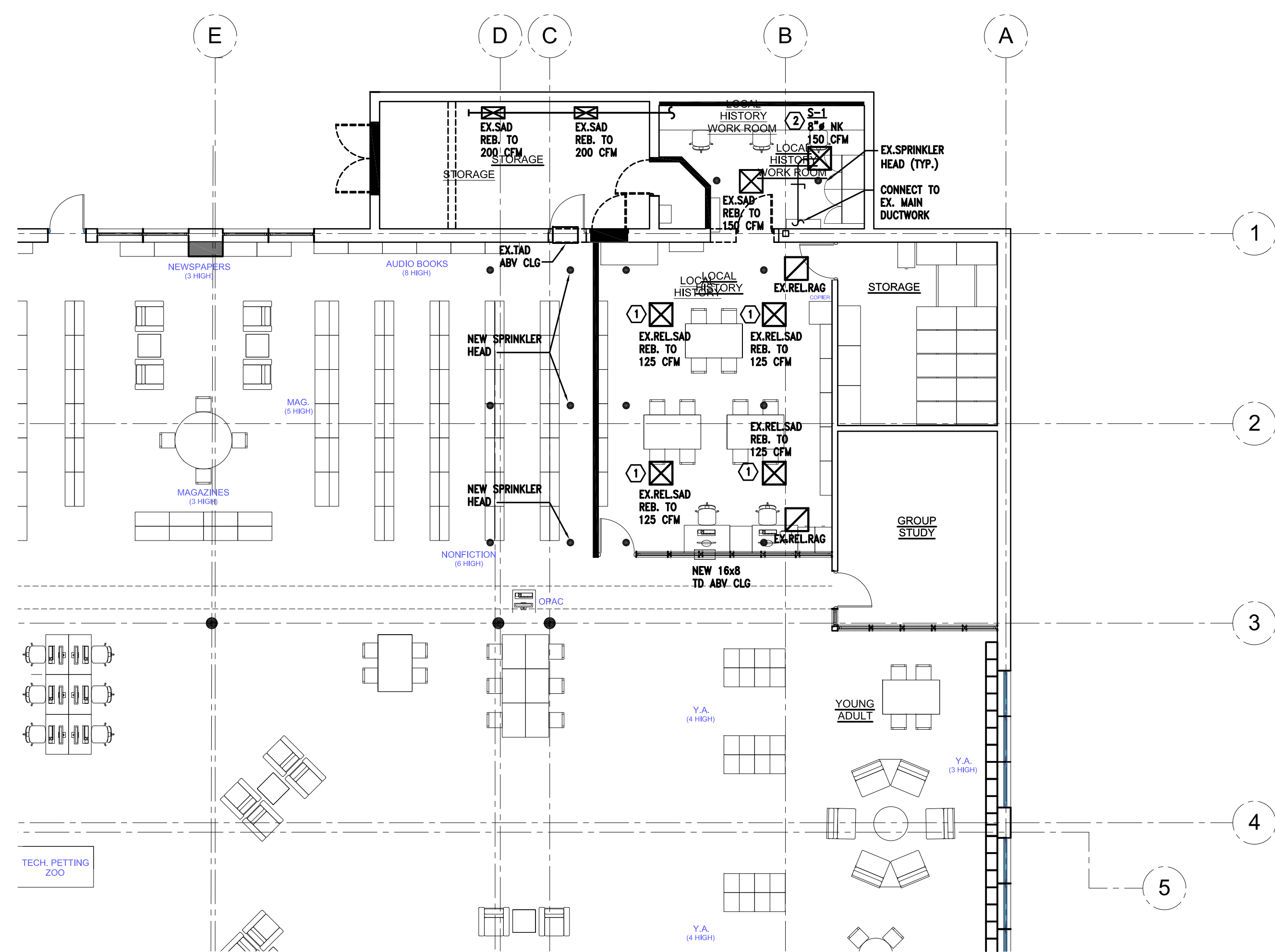
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### REFLECTED CEILING PLANS



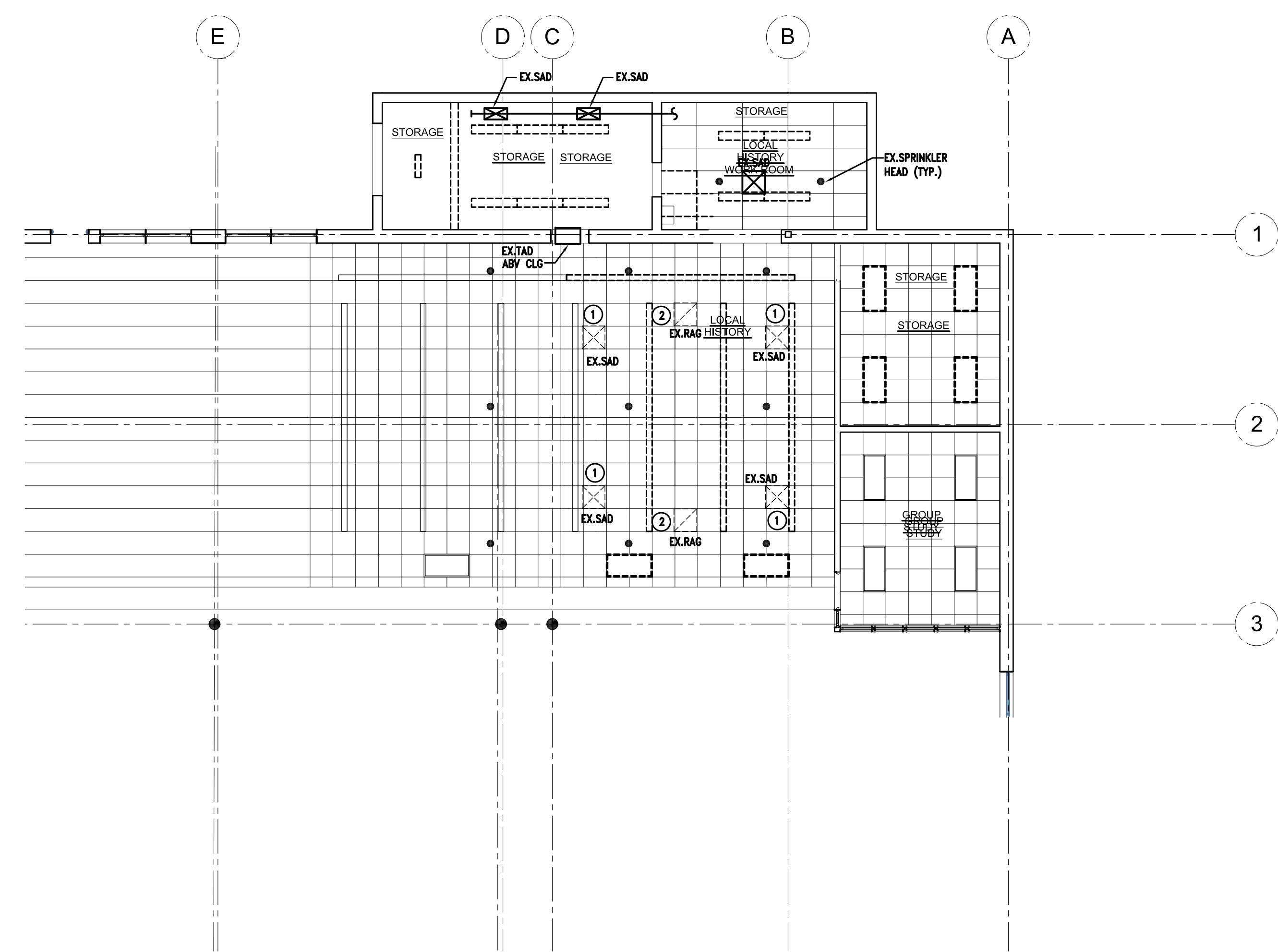
DRAWN BY: CS  
 APPROVED BY: SS

PROJECT NO. 23283  
 SHEET NO. A-102



2 MECHANICAL NEW WORK PLAN  
 M-101 SCALE: 1/8" = 1'-0"

- NEW WORK KEY NOTES:**
- ① RELOCATED EXISTING DIFFUSER, EXTEND / PROVE NEW BRANCH DUCT (8") AS REQUIRED. REBALANCE PER VALUE INDICATED.
  - ② S-1, NEW DIFFUSER BY TITUS TMS, 24x24, COLOR TO MATCH EXISTING.



1 MECHANICAL DEMOLITION PLAN  
 M-101 SCALE: 1/8" = 1'-0"

- DEMOLITION KEY NOTES:**
- ① REMOVE, CLEAN AND RELOCATE EXISTING SUPPLY AIR DIFFUSER. EXTEND BRANCH DUCT AS NECESSARY.
  - ② REMOVE, CLEAN AND RELOCATE EXISTING RETURN AIR GRILLE.

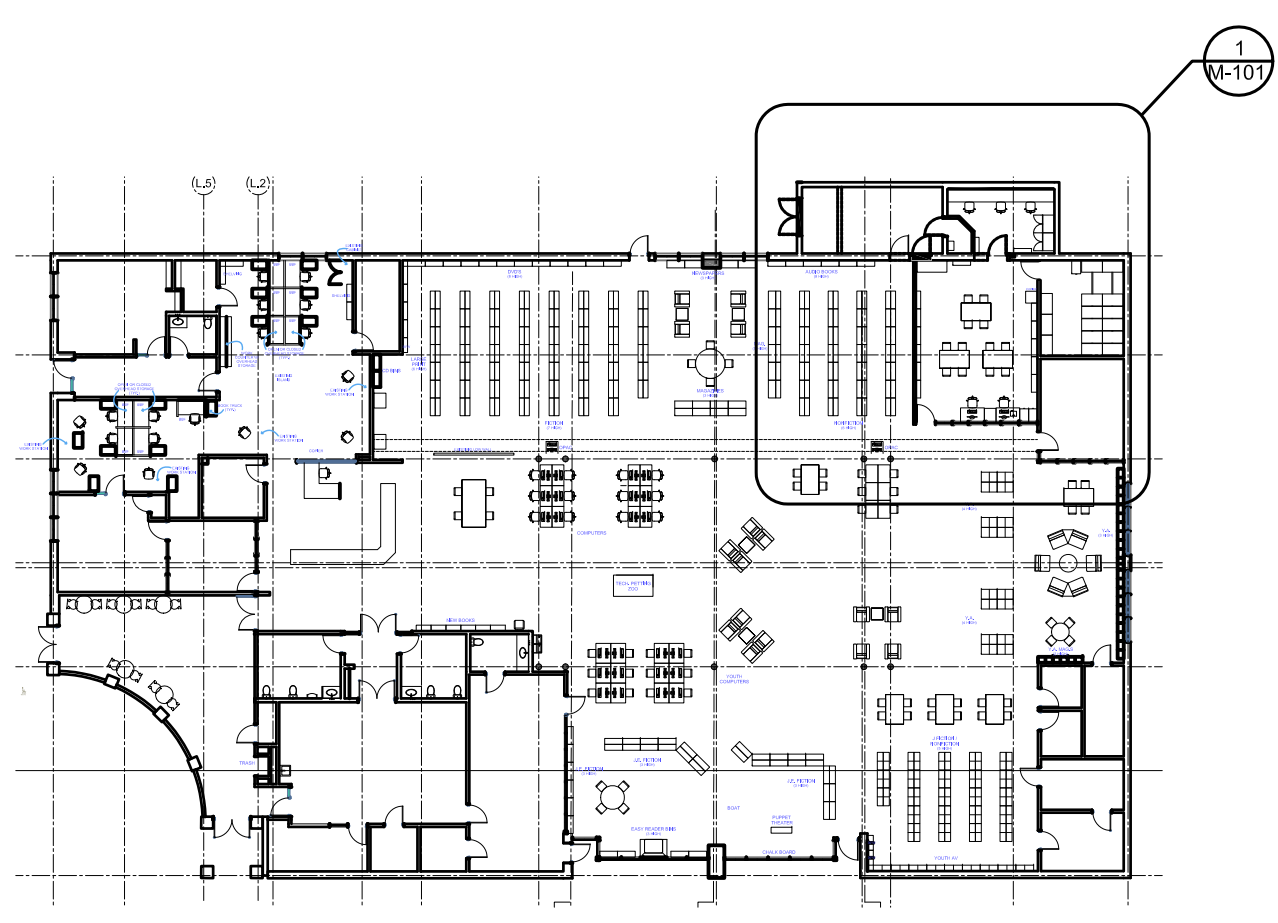
OUTDOOR AIR REQUIREMENT - MARSHALL DISTRICT LIBRARY												
EXISTING UNIT		% OF OUTDOOR AIR: 20										
REFERENCE CODE: INTERNATIONAL MECHANICAL CODE 2015, TABLE 403.3												
NO	ROOM NAME	MAX. OCCUPANT LOAD (PERSONS / 1000 SF)	PEOPLE OUTDOOR AIR RATE (CFM)	AREA (SF)	AREA OUTDOOR AIR (CFM/FT2)	MAX. NO. OF PEOPLE	SUPPLY (CFM)	RETURN / EXHAUST (CFM)	COOLING EFFECTIVENESS OA REQUIRED	HEATING EFFECTIVENESS OA REQUIRED	OUTDOOR AIR REQUIRED	OUTDOOR AIR PROVIDED
1	STORAGE	0	0.0	260	0.12	0	400	400	31	39	39	80
2	LOCAL HISTORY WORKROOM	5	5.0	175	0.06	1	300	300	15	19	19	60
3	LOCAL HISTORY WORKROOM	5	5.0	560	0.06	3	500	500	48	60	60	100



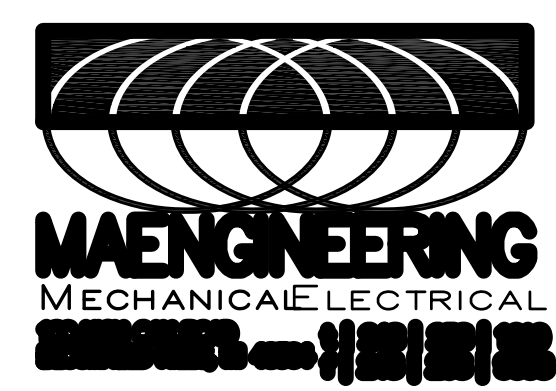
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**MECHANICAL NEW WORK PLANS**



KEY PLAN  
 SCALE: 1/32" = 1'-0"



DRAWN BY: GS  
 APPROVED BY: SS

PROJECT NO. 23283  
 SHEET NO. M-101



ELECTRICAL LEGEND

Table with 2 columns: Symbol and Description. Includes symbols for light fixtures, switches, receptacles, and various electrical components.

Table with 2 columns: Symbol and Description. Includes symbols for fire-rated boxes, distribution panels, emergency lighting, and various control devices.

\* THIS IS STANDARD SYMBOL LIST - SOME OF THESE SYMBOL MAY NOT APPEAR ON DRAWINGS.

GENERAL REQUIREMENTS:

ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL LOCAL AND STATE AUTHORITIES HAVING JURISDICTION THEREOF.

ALL EQUIPMENT SHALL BE SPECIFICATION GRADE AND SHALL HAVE U.L. LABEL FOR INTENDED USE.

ELECTRICAL SYSTEMS SHALL BE COMPLETE IN EVERY DETAIL, INCLUDING ALL INCIDENTAL ITEMS FOR A PROPER AND FUNCTIONING INSTALLATION SUBJECT TO FINAL APPROVAL OF ARCHITECT/ENGINEER.

ALL REQUIRED PERMIT AND INSPECTIONS SHALL BE OBTAINED BY CONTRACTOR AND SUCH COSTS SHALL BE INCLUDED IN BID PRICE FOR THIS WORK.

PROVIDE UL LISTED SYSTEM FOR FIRE STOPPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. PROVIDE SYSTEM WITH EQUAL OR GREATER RATINGS THAN ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR RATINGS AND LOCATIONS OF ASSEMBLIES.

EXAMINATION OF SITE IS MANDATORY. CONTRACTOR IS HEREBY HELD TO HAVE EXAMINED THE SITE AND HAVE INCLUDED IN HIS BID PRICE ALL COSTS DUE TO SITE AND FIELD CONDITIONS.

COMPLETE IDENTIFICATION OF PROJECT ELECTRICAL COMPONENTS IS REQUIRED. IDENTIFY ALL PANELS, DISCONNECTS, CONTROL DEVICES, ETC., WITH THE NOMENCLATURE INDICATED ON THE DOCUMENTS AND WITH POWER SOURCE AND ELECTRICAL RATINGS USING PLASTIC LAMINATE NAMEPLATE. INSTALL TYPEWRITTEN DIRECTORIES OF ALL CIRCUITS ON INSIDE OF PANELS.

PROVIDE TEMPORARY POWER AND LIGHTING DURING CONSTRUCTION. REMOVE TEMPORARY WIRING UPON COMPLETION OF THE PROJECT. TEMPORARY SERVICES SHALL BE AS WEATHERPROOF, BY N.E.C. AND OSHA. CONTRACTOR IS RESPONSIBLE TO MEET WITH UTILITY TO FOR TEMPORARY POWER PROVISION AND ALL REQUIRED SKID UNITS.

GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT THE ELECTRICAL SYSTEM. INSTALL EQUIPMENT GROUNDING CONDUCTOR WITH EVERY CIRCUIT.

COORDINATE SIZE AND LOCATION OF ANY REQUIRED ACCESS PANELS IN WALLS OR FINISHED CEILINGS WITH ARCHITECT PRIOR TO INSTALLATION.

WARREN: UNLESS A LONGER PERIOD IS SPECIFIED IN INDIVIDUAL PARAGRAPHS, PROVIDE A MINIMUM OF ONE YEAR WARRANTY ON ALL ELECTRICAL WORK BEGINNING THE DATE OF FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER.

SUBMITTALS: SUBMIT SHOP DRAWINGS FOR ALL MAJOR COMPONENTS OR SYSTEMS OF THE PROJECT. SUBMIT ADDITIONAL SHOP DRAWINGS IF REQUESTED BY ENGINEER.

NO APPARATUS OR EQUIPMENT SHALL BE SHIPPED FROM STOCK OR FABRICATED UNTIL ITS SHOP DRAWINGS HAVE BEEN STAMPED "REVIEWED" OR "APPROVED AS NOTED". SUBMIT DATA REQUIRED FOR TRANSFORMERS SUCH AS EFFICIENCY, REGULATION, CORE LOSS AND SOUND LEVELS. (SEE APPLICABLE SECTIONS).

SUBMIT SYSTEM COMPONENTS, PRODUCT DATA AND SHOP DRAWINGS COMPLETE FOR EACH SYSTEM UNDER ONE SUBMITTAL. DO NOT BREAK OUT EQUIPMENT FOR ONE SYSTEM BETWEEN MULTIPLE SUBMITTALS.

ALL SHOP DRAWINGS MUST BE CLEARLY MARKED TO SHOW EQUIPMENT SUBMITTED AND ANY DEVIATIONS FROM SPECIFICATIONS SHALL BE NOTED THEREON. DO NOT INCLUDE ONLY MODEL NUMBERS TO INDICATE SUBMITTED EQUIPMENT. STRIKE OUT ANY INFORMATION ON PRODUCT DATA THAT IS NOT PROJECT SPECIFIC, AND EDIT RELEVANT INFORMATION TO SHOW ACTUAL EQUIPMENT SUBMITTED. ELECTRICAL CONTRACTOR MUST SIGN AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. UNLESS NUMBER EACH PAGE IN SUBMITTAL.

IF DIFFERENT SYSTEMS ARE INCLUDED IN ONE SUBMITTAL, CLEARLY SEPARATE INFORMATION AND PROVIDE DIFFERENT SUB-NUMBERING OF SYSTEMS. SHOP DRAWINGS THAT ARE INCOMPLETE, UNSIGNED AND NOT PLAINLY MARKED WILL NOT BE REVIEWED.

DEMOLITION AND RENOVATION WORK: DISCONNECT, REMOVE, RELOCATE, REWIRE OR DISPOSE OF ANY EQUIPMENT INTERFERING WITH NEW CONSTRUCTION OR AFFECTED BY RENOVATION WORK.

ANY ELECTRICAL EQUIPMENT OR SYSTEMS WHICH ARE TO REMAIN, AND ARE AFFECTED BY THIS WORK, SHALL BE IMMEDIATELY RESTORED TO FULL OPERATING CONDITION AND AT NO ADDITIONAL COST TO THE CONTRACTOR.

EQUIPMENT REMOVED SHALL BE DISPOSED OF AS DIRECTED, EITHER TO STORAGE OR OFF THE PREMISES.

WHERE SERVICES OR CIRCUITS ARE DISCONNECTED OR DISCONTINUED, IT IS MANDATORY THAT ANY EXISTING UNUSED WIRING BE REMOVED TO THE SOURCE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. IT IS THE INTENT OF THIS ARTICLE TO PERMANENTLY DISCONNECT ALL UNUSED CIRCUITS AT THE MAIN SOURCE WHENEVER POSSIBLE. NO ENERGIZED CIRCUIT SHALL BE TAPPED AND ABANDONED IN OUTLET BOXES UNLESS SO SPECIFIED ON DRAWINGS.

CIRCUIT TRACE EXISTING TO REMAIN CIRCUITS AS NECESSARY FOR PROPER IDENTIFICATION, AND AS REQUIRED TO PERFORM AND DOCUMENT WORK.

REMODELING WORK INVOLVING EXISTING BRANCH CIRCUIT PANELBOARD SHALL BE SUCH THAT, WHEN ALL WORK IS COMPLETED EXISTING PANELS ARE PROVIDED WITH NEW AND UPDATED ACCURATE DIRECTORIES. ALL VACATED CIRCUITS SHALL BE MARKED SQUARE. WHEN NEW BREAKERS ARE REQUIRED, THEY SHALL BE INSTALLED IN EXISTING SPACES AND SHALL MATCH THOSE THAT ARE EXISTING. PROVIDE NEW PANELS IF REQUIRED AND WHERE INDICATED.

CONTRACTOR MAY USE EXISTING CONDUITS AND OUTLET BOXES, PROVIDED THEY ARE IN GOOD ELECTRICAL CONDITION AND THE INSTALLATION IS APPROVED BY THE AHJ. RE-SUPPORT EXISTING TO REMAIN CONDUIT AND BOXES IN RENOVATION AREA IF INADEQUATELY SUPPORTED. PROVIDE SUPPORT AS REQUIRED TO COMPLY WITH NEC AND AHJ REQUIREMENTS.

IT IS THE INTENT OF THE OVERALL DESIGN TO CONCEAL ALL WORK EXCEPT IN UNFINISHED AREAS. CUT AND PATCH EXISTING SURFACES AS REQUIRED FOR A CONCEALED INSTALLATION.

ALL ELECTRICAL OPENINGS THAT ARE ABANDONED IN WALLS, CEILINGS OR FLOOR SHALL BE PROVIDED WITH SUITABLE BLANK COVER PLATES. ABANDONED FLOOR OUTLETS AND PENETRATIONS SHALL BE FILLED TO MATCH EXISTING SURROUNDING CONDITIONS.

CONDUITS AND OTHER PARTS OF ELECTRICAL SYSTEMS THAT BECOME EXPOSED AS A PART OF NEW WORK SHALL BE REMOVED AS REQUIRED TO A POINT WHERE THE ABANDONED PORTION IS TOTALLY CONCEALED.

ALL SURFACES DAMAGED BY THIS CONTRACTOR IN THE COURSE OF PERFORMING WORK SHALL BE RESTORED TO SATISFACTORY CONDITION, AS DIRECTED BY THE ARCHITECT AND ALL COSTS OF REPAIRS SHALL BE PAID FOR BY THE CONTRACTOR.

REMOVE SERVICE TO MECHANICAL, ELECTRICAL AND BUILDING EQUIPMENT SPECIFIED AND/OR INDICATED AS REMOVED OR DISCONNECTED. MAINTAIN CIRCUITS TO EXISTING-TO-REPAIR EQUIPMENT. IDENTIFY UNUSED, REMOVED CIRCUITS ON PANEL SCHEDULE AS SPARE. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXISTING TO REMAIN EQUIPMENT AND FOR DEMOLITION WORK.

SERVICE SHUTDOWN AND POWER OUTAGES SHALL BE SCHEDULED WITH THE OWNER PRIOR TO PERFORMING ANY WORK ON EXISTING SERVICE. SCHEDULE SHALL BE PROVIDED IN WRITING 72 HOURS IN ADVANCE AND SHALL SHOW A DETAILED DESCRIPTION OF THE PROPOSED WORK AND THE DURATION OF OUTAGE.

PROVIDE LUMINAIRE DISCONNECTING MEANS PER LIGHTING SPECIFICATIONS.

UTILITY SERVICES: ELECTRIC SERVICE TO THE SITE IS EXISTING AND SHALL BE UTILIZED AS INDICATED ON THE DRAWINGS. TELEPHONE SERVICE TO THE SITE IS EXISTING AND SHALL BE UTILIZED AS INDICATED ON THE DRAWINGS.

ELECTRICAL EQUIPMENT AND DEVICES: RECEPTACLES SHALL BE SPECIFICATION GRADE, GROUNDING TYPE, 2-POLE, 3-WIRE, AND SQUARE RECEPTACLES SHALL BE GENERAL PURPOSE, 125 V., HUBBELL #HBL565 OR EQUAL MOUNTED 16" AFF IN OFFICES AREAS AND 48" AFF IN SHOP AREAS EXCEPT AT COUNTERS WHERE THEY SHALL BE 6" ABOVE COUNTER AND IN TOILET ROOMS AT 48" AFF. RECEPTACLES ON SINGLE CIRCUIT SHALL BE 20 AMPERES, HUBBELL #HBL5362. HIGH AMPERE RATINGS AND VOLTAGES ARE INDICATED ON DRAWINGS.

RECEPTACLES DESIGNATED "GFR" SHALL BE GROUND FAULT RECEPTACLES, SIMILAR TO HUBBELL #GF-5362. FOR OUTDOOR OR WET LOCATIONS, PROVIDE WEATHERPROOF BOX AND GASKETED COVER PLATE. "WIRE GFR" RECEPTACLES FOR SELF PROTECTION AND NOT DOWNSTREAM PROTECTION OF OTHER WIRING DEVICES.

SWITCHES SHALL BE SINGLE POLE, TWO POLE, OR THREE-WAY, AS INDICATED, TOGGLE TYPE, 20A, 120/277V, QUET TYPE, HUBBELL #H221/1222/1223 OR APPROVED EQUAL. PILOT TYPE SWITCHES HUBBELL #1251.

PROVIDE DIMMERS RATED FOR LOAD WATTAGE AND VOLTAGE CONTROLLED. CONTRACTOR TO COORDINATE RATINGS BASED ON APPROVED FIXTURE SUBMITTALS AND ACTUAL FIXTURE QUANTITIES. PROVIDE DIMMERS DESIGNATED FOR CONTROLLED LOAD CONSULT LIGHT FIXTURE MANUFACTURER FOR COMPATIBLE DIMMER SWITCHES.

WIRING DEVICE COLORS SHALL BE WHITE OR AS SELECTED BY OWNER/ARCHITECT. DEVICE COVER PLATES SHALL BE OF TYPE AND NUMBER OF GANGS FOR DEVICES INSTALLED, SMOOTH EDGED 302/304 GRADE BRUSHED STAINLESS STEEL. PROVIDE BRANCH CIRCUIT IDENTIFICATION ON ALL COVERPLATES AS SPECIFIED UNDER "GENERAL REQUIREMENTS".

IDENTIFY WIRING DEVICE COVERPLATES WITH PANELBOARD AND BRANCH CIRCUIT NUMBER SERVING DEVICE. E.G. "A-15". PROVIDE 3/4" MACHINE-WRITTEN BLACK LETTERING ON CLEAR PLASTIC ADHESIVE TAPE. LOCATE ON BOTTOM FRONT OF COVERPLATE, CENTERED BELOW WIRING DEVICE(S). SUBMIT SAMPLE OF LABELED TAPE WITH WIRING DEVICE/COVERPLATE SUBMITTAL. SAMPLE MAY BE ADHERED TO PAPERWORK IN SUBMITTAL, RATHER THAN TO A COVERPLATE.

PROVIDE TELEPHONE/DATA OUTLETS AND STUBS AS INDICATED. TELEPHONE/DATA OUTLETS SHALL CONSIST OF TWO GANG OUTLET BOX WITH PLASTER RING AND NO COVER PLATE. JACK AND COVER PLATE ARE SUPPLIED BY OTHERS. HEIGHT OF OUTLET FOR DESK PHONE IS 16" AFF AND FOR WALL PHONE 48" AFF. TELEPHONE/DATA OUTLETS SHALL CONTAIN OF 3/4" CONDUIT FROM OUTLET TO AN ACCESSIBLE PORTION OF CEILING SPACE. TERMINATE WITH INSULATING BUSHING.

CONDUCTORS: ALL CONDUCTORS SHALL BE SOFT-DRAWN COPPER OF SIZES INDICATED ON THE DRAWINGS. ALL CONDUCTORS SHALL BE INSULATED FOR 600 VOLTS AND WITH 75 DEGREES (CENTIGRADE) CODE GRADE INSULATION.

CONDUCTORS SIZED #10 AND SMALLER SHALL BE SOLID. ALL CONDUCTORS LARGER THAN #10 SHALL BE MADE UP OF STRANDED SINGLE CONDUCTOR CABLE. CONDUCTORS SHALL HAVE THIN OR THIN INSULATION. CONDUCTORS IN UNDERGROUND CONDUIT AND FOR SERVICE ENTRANCE CONDUCTOR SHALL HAVE XHHW OR THWN INSULATION.

#12 AWG SHALL BE THE MINIMUM WIRE SIZE ALLOWED EXCEPT #14 AWG MAY BE USED FOR CONTROL WIRING. TYPICAL BRANCH CIRCUITS FROM 20A, 1-POLE BRANCH OVERCURRENT DEVICES ARE 1/2", 2#12 AND 1#12G.

STARTERS, SAFETY SWITCHES, FUSES AND HEATERS: MANUAL MOTOR STARTERS SHALL BE 600V TOGGLE TYPE WITH THERMAL OVERLOAD ELEMENT FOR MOTOR PROTECTION STAINLESS STEEL COVER PLATE AND PILOT LIGHT; FLUSH IN ALL AREAS EXCEPT IN UNFINISHED SPACES. CONTRACTOR TO COORDINATE AND PROVIDE QUANTITY OF POLES AS REQUIRED FOR BRANCH CIRCUIT AND LOAD SERVED. MANUAL MOTOR SWITCHES SHALL BE THE SAME AS MANUAL STARTERS EXCEPT WITHOUT OVERLOADS AND USED AS DISCONNECTING MEANS.

MAGNETIC MOTOR STARTERS SHALL BE 600 VOLT 3-PHASE WITH 3 THERMAL OVERLOAD ELEMENTS, HOA SWITCH AND RESET BUTTON IN COVER AND GREEN RUNNING PILOT LIGHT, NEMA ENCLOSURE AND SIZE AS INDICATED. COMBINATION STARTERS SHALL HAVE BUILT-IN FUSED DISCONNECT. PROVIDE START-STOP PUSH BUTTONS FOR USE IN HAND (MANUAL) MODE.

PROVIDE THERMAL ALLOY MELTING TYPE HEATER ELEMENTS FOR ALL MOTORS BASED ON MOTOR NAMEPLATE DATA. SAFETY AND DISCONNECT SWITCHES SHALL BE 250 OR 600 VOLTS AS REQUIRED, HEAVY DUTY, TWO (2) TO THE POLE. "QUICK-MAKE", "QUICK-BREAK" SWITCH MECHANISM AND COVER INTERLOCK. SWITCHES SHALL BE FUSED OR UNFUSED AS INDICATED AND SHALL HAVE PAD LOCK PROVISIONS, WITH NEMA TYPE ENCLOSURE FOR LOCATION USED. SWITCHES SHALL BE SQUARE "D" CLASS 3110 OR APPROVED EQUAL.

PROVIDE ALL NECESSARY FUSES AND REPLACE ALL THOSE BLOWN DURING CONSTRUCTION. ALL FUSES SHALL BE TIME LAG, DUAL ELEMENT, BUSSMAN "LOW PEAK YELLOW" OR EQUAL.

INSTALLATION AND METHODS OF EXECUTION: ALL WIRING SHALL BE IN CONDUIT. MINIMUM 1/2" FLEXIBLE METAL CONDUIT SHALL BE USED FOR SHORT CONNECTION TO MOTORS, FINAL CONNECTION TO RECESSED LIGHTING FIXTURES FROM RIGIDLY MOUNTED OUTLET BOX (NOT BETWEEN FIXTURES), VIBRATING EQUIPMENT, ETC., BUT NEVER LONGER THAN 6 FEET. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR ALL APPLICATIONS EXPOSED TO WATER OR WEATHER. PROVIDE ANTI-SHORT BUSINESS FOR ALL FLEXIBLE CONDUIT ARMOR TERMINATIONS. PROVIDE SEPARATE EQUIPMENT GROUND WIRE IN ALL CONDUIT RUNS.

CONDUIT CONCEALED IN CEILING, WALLS OR FURRED SPACES OR EXPOSED IN DRY LOCATIONS SHALL BE EMT, THIN WALL ELECTRIC METALLIC TUBING, CONDUIT EXPOSED TO WEATHER, IN CONTACT WITH CONCRETE, BURIED IN SLAB, OR IN HAZARDOUS AREAS, SHALL BE HEAVY WALL, RIGID. ALL CONDUITS SHALL BE HOT DIPPED GALVANIZED STEEL.

CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. EXACT ROUTING OF CONDUIT RUNS SHALL SUIT JOB CONDITIONS. EXPOSED CONDUIT SHALL BE RUN ONLY IN UNFINISHED AREAS SUBJECT TO FINAL APPROVAL OF ENGINEER AND SHALL RUN PARALLEL TO BUILDING LINES, NEVER DIAGONALLY.

CONNECTION TO EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SHOP AND INSTALLATION DRAWINGS. REQUIREMENTS GENERALLY VARY FROM ONE MANUFACTURER TO ANOTHER AND CONTRACTOR IS BOUND TO COMPLY AND PROVIDE ALL WORK AS REQUIRED. ALTHOUGH CERTAIN DISCREPANCIES MAY EXIST REGARDING THE REQUIREMENT FROM ONE MANUFACTURER TO ANOTHER.

PROVIDE POWER WIRING, DISCONNECTS, AND PROTECTION DEVICES TO ALL MECHANICAL EQUIPMENT AND MAKE FINAL CONNECTIONS, INCLUDING TESTING OF MOTORS FOR PROPER ROTATION.

OUTLET BOXES MAY BE SURFACE MOUNTED ON EXISTING WALLS (CMU, BRICK OR CONCRETE) WITH SMALLEST SURFACE RACEWAY AS REQUIRED FOR WIRING INSTALLED. PROVIDE FLUSH OUTLET BOXES AND CONDUIT AT NEW CONSTRUCTION WALL AND AT EXISTING WALLS WHICH ARE NOT CMU BRICK OR CONCRETE CONSTRUCTION. CUT AND PATCH EXISTING WALLS AS REQUIRED FOR FLUSH INSTALLATION.

PROVIDE 4" TALL CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.

ALL WIRING LOCATED ABOVE THE SUSPENDED CEILING MUST BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING.

OUTLET BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF TWENTY FOUR (24) INCHES.

ELECTRICAL OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANT RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRESSTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING PER ARTICLE 300.21 2017 NEC.

PROVIDE PROPER WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT AS REQUIRED PER NEC. LIGHTING SPECIFICATIONS: LED LIGHTING FIXTURES SHALL HAVE 5 YEAR WARRANTY, A COLOR RENDERING INDEX OF 90 OR HIGHER, 3500K COLOR TEMPERATURE UNLESS OTHERWISE INDICATED ON DRAWINGS, LIFETIME: 50,000 HOURS OR GREATER AND MAINTAIN AT LEAST 70% OF INITIAL LUMEN OUTPUT. RATED FOR OUTDOOR USE AND WET LOCATION, IF IN OPEN FIXTURE.

SHALL POSSESS COLOR MANAGEMENT SYSTEM TO MAINTAIN COLOR CONSISTENCY OVER TIME AND TEMPERATURE OF NO GREATER THAN ±100K OVER LIFE.

REFER TO LIGHTING FIXTURE SCHEDULE ON ARCHITECTURAL REFLECTED CEILING PLANS FOR LED FIXTURES WITH DIMMING CONTROLS.

LED DRIVERS TO BE ELECTRONIC, HIGH POWER FACTOR, MIN. 0.9; UNIVERSAL VOLTAGE 120-277V; 5 YEAR WARRANTY, COMPATIBLE WITH THE LED LAMP OR MODULE USED.

ELECTRICAL SHEET INDEX table with columns SHEET and DESCRIPTION. Rows include E-001 ELECTRICAL LEGEND AND SPECIFICATIONS, ED-101 LIGHTING AND POWER DEMOLITION PLANS, and E-101 LIGHTING AND POWER NEW WORK PLANS.

PANELBOARD RP-C table showing load information, connected watts, and phase distribution for various rooms like FICTON, STORAGE RM, and YOUTH SERVICE.

PANELBOARD RP-B table showing load information, connected watts, and phase distribution for various rooms like STORAGE RM, MEETING ROOM, and STUDY & STORAGE RM.

ISSUED: PERMITS 04.12.24 ADDENDUM 1 06.14.24



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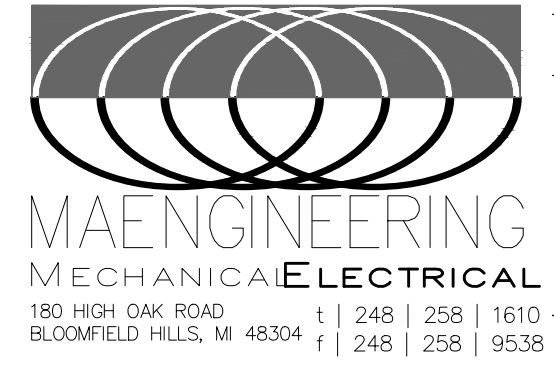
BUILDING RENOVATION FOR: MARSHALL DISTRICT LIBRARY RENOVATIONS 124 W GREEN ST. MARSHALL, MICHIGAN 49068

ELECTRICAL LEGEND AND SPECIFICATIONS

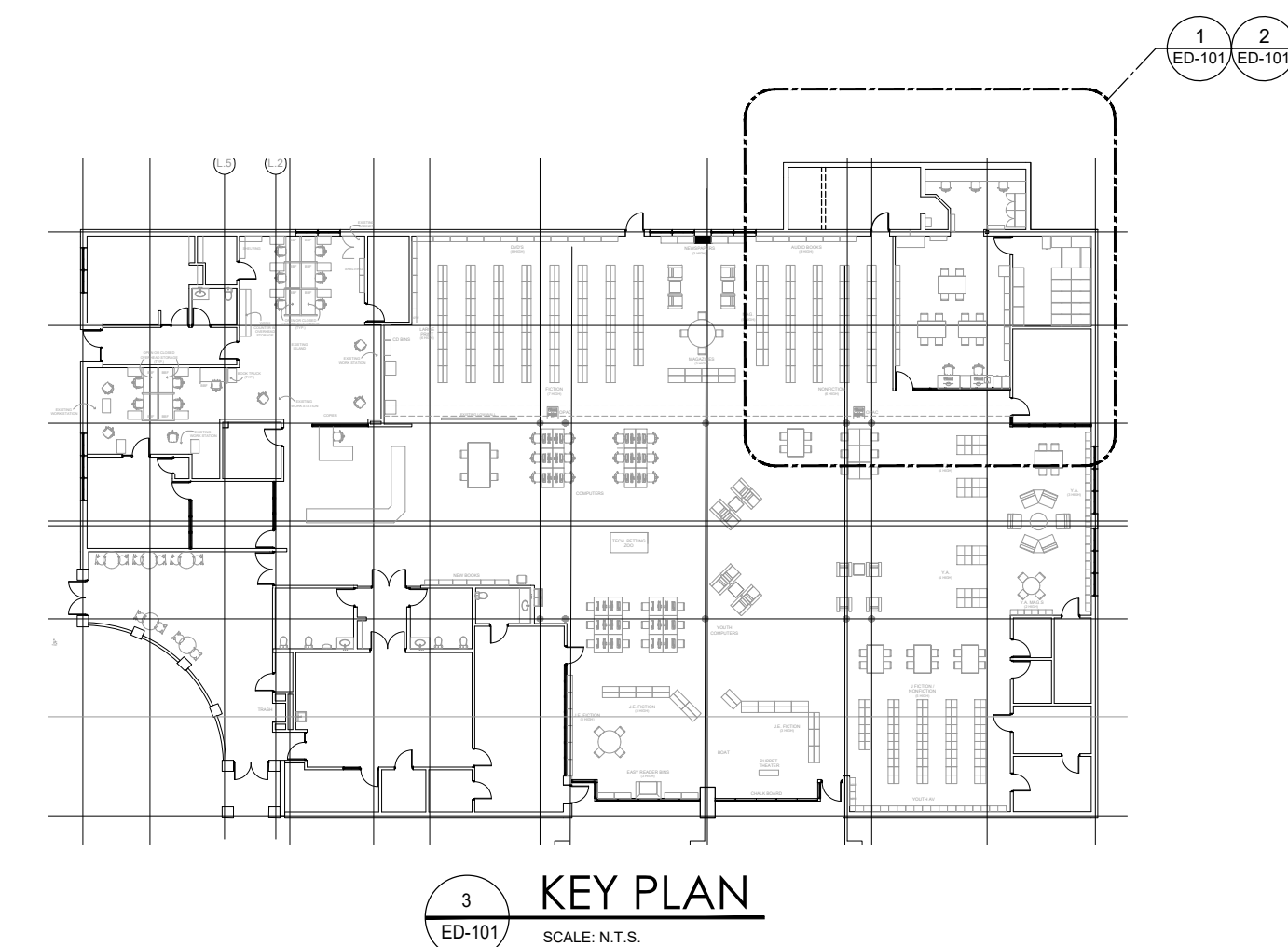


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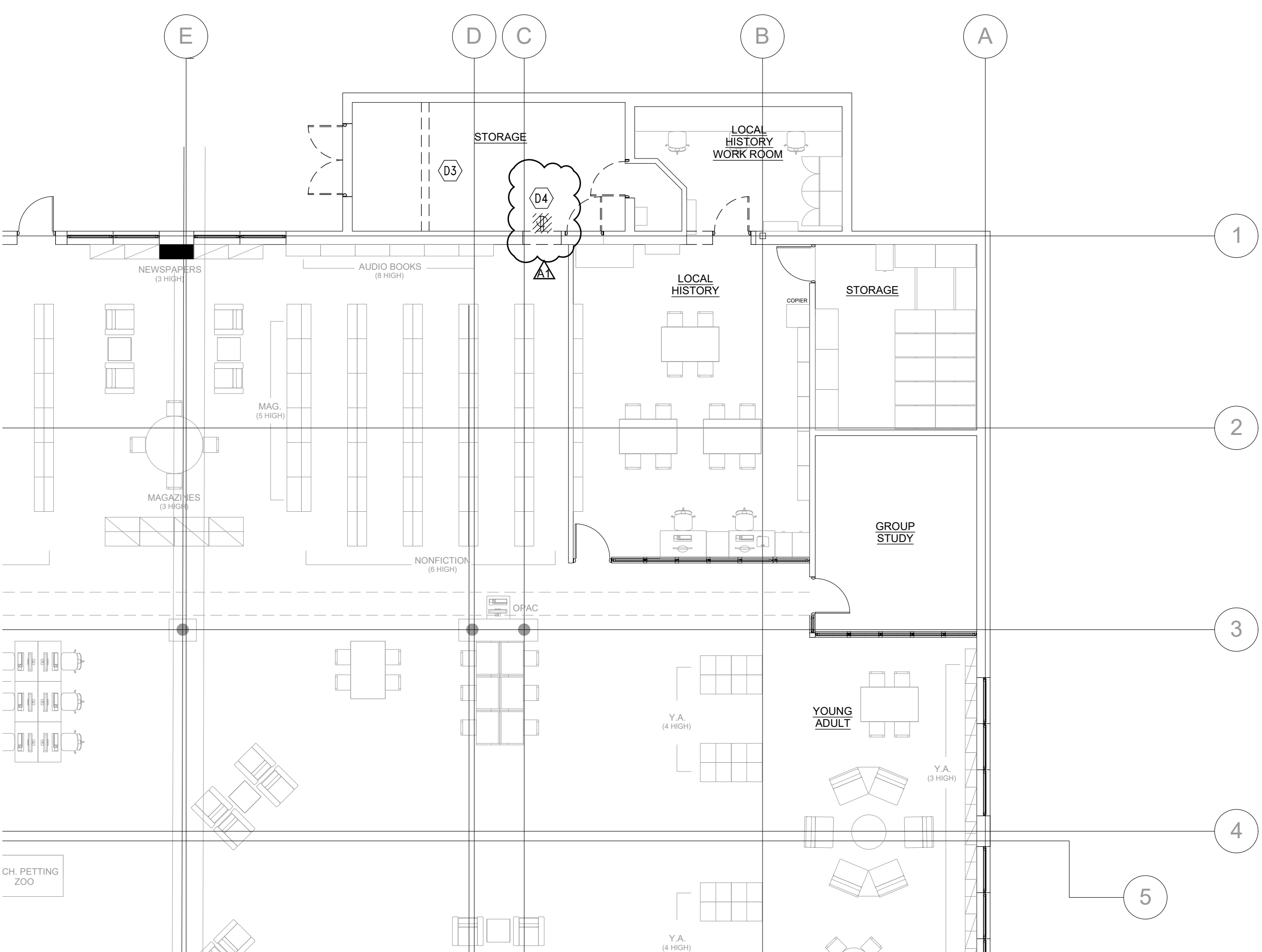




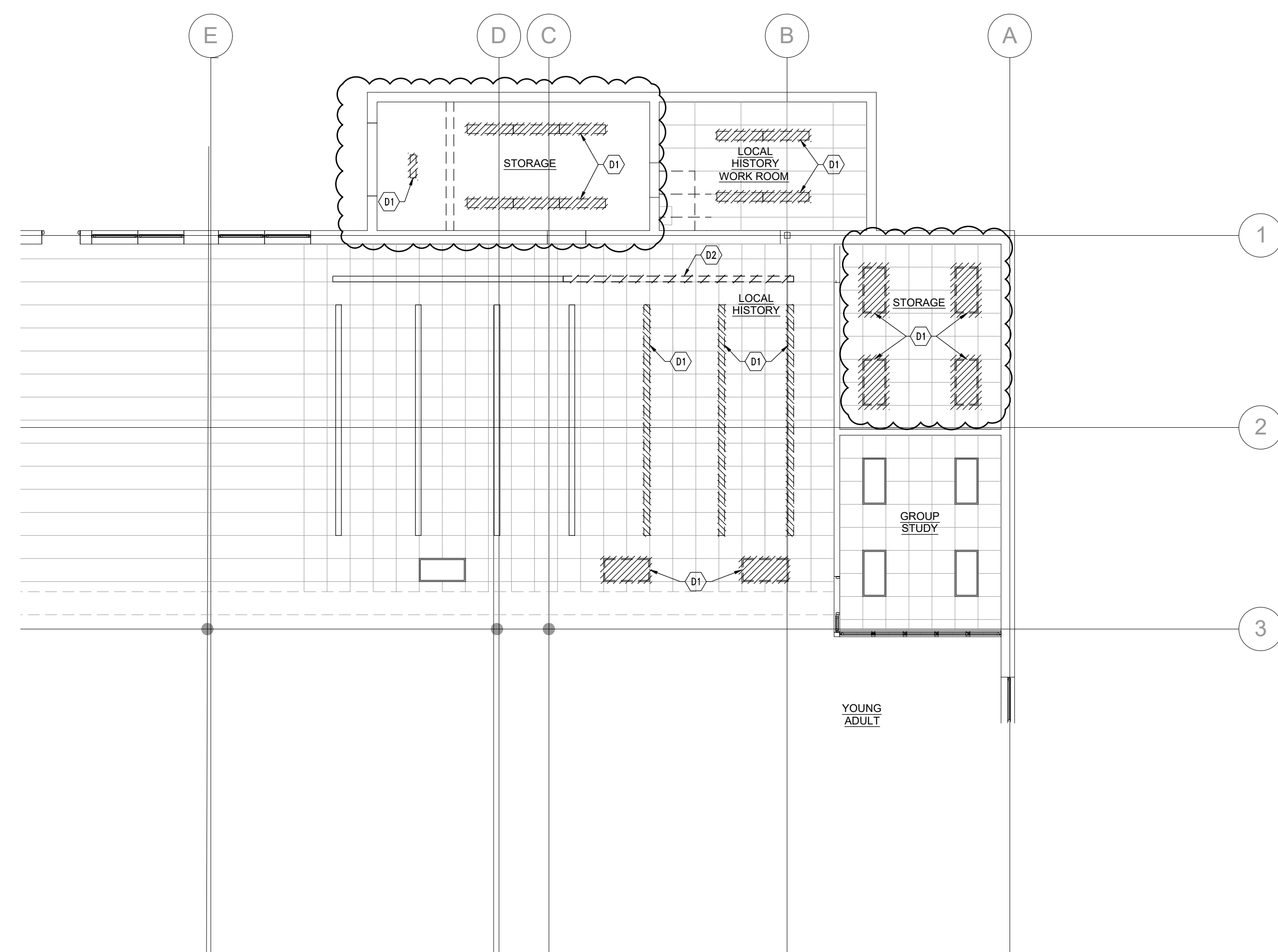



**KEY PLAN**  
 ED-101 SCALE: N.T.S.

- KEY NOTES :**
- (D1) DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE SHOWN HATCHED, REMOVE RELATED SWITCH AND WIRING BACK TO EXISTING TO REMAIN LIGHT FIXTURE ON SAME CIRCUIT OR TO CIRCUIT HOME RUN AT CEILING J-BOX AS APPLICABLE, SALVAGE EXISTING BRANCH CIRCUIT FOR RE-USE FOR NEW LIGHTING.
  - (D2) DISCONNECT AND REMOVE PORTION OF SURFACE LINEAR LIGHT SHOWN HATCHED, REMOVE WIRING BACK TO EXISTING TO REMAIN PORTION.
  - (D3) DISCONNECT AND REMOVE RECEPTACLES AND ANY OTHER ELECTRICAL INSTALLATION ON DEMOLISHED WALLS, REMOVE RELATED WIRING.
  - (D4) DISCONNECT AND REMOVE RECEPTACLE SHOWN HATCHED, PREPARE TO RELOCATE AS SHOWN IN NEW POWER PLAN. EXTEND WIRES AS REQUIRED.



**POWER DEMOLITION PLAN**  
 ED-101 SCALE: 1/8" = 1'-0"



**LIGHTING DEMOLITION PLAN**  
 ED-101 SCALE: 1/8" = 1'-0"



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**ELECTRICAL LIGHTING AND POWER DEMOLITION PLAN**



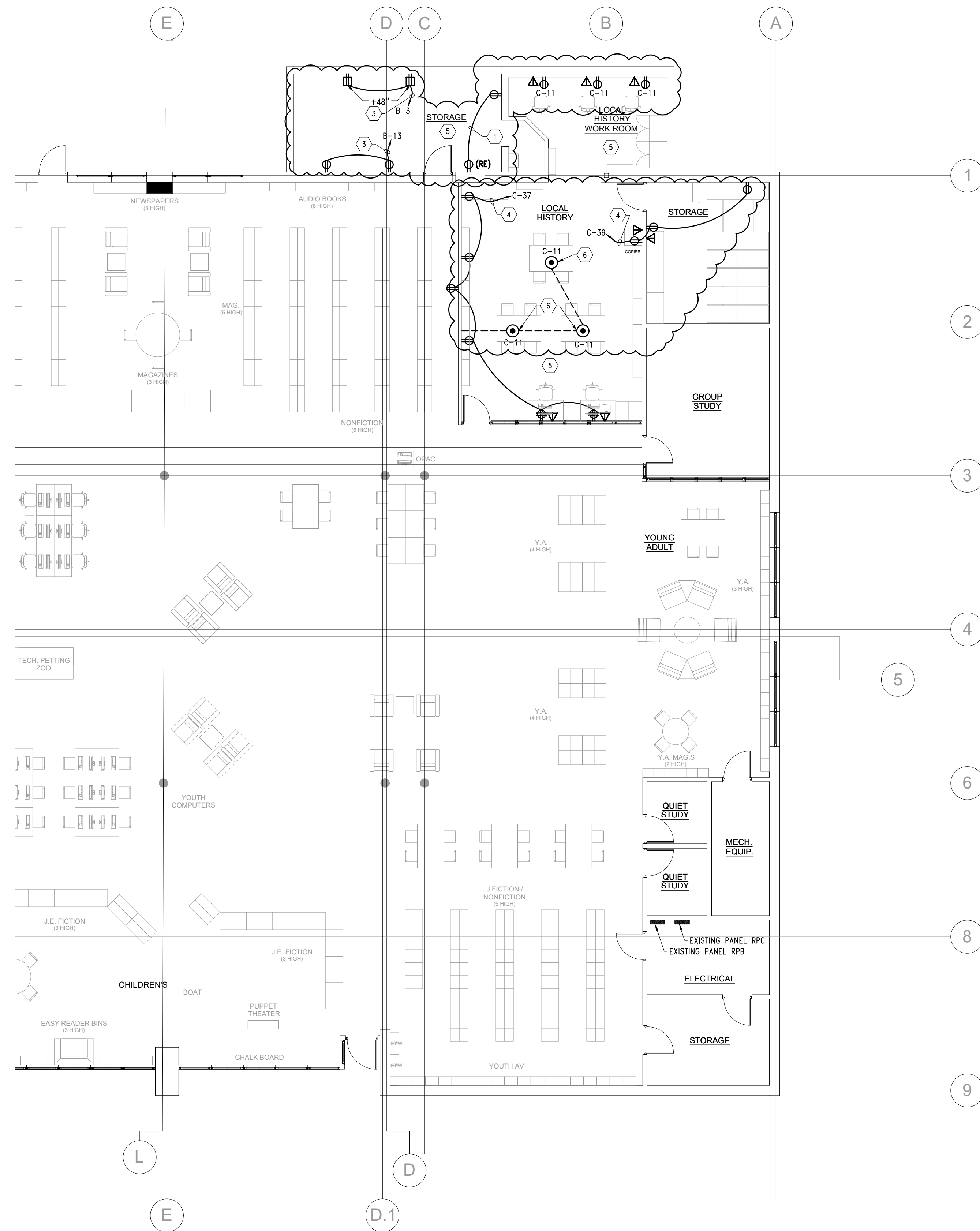
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PROJECT NO. SHEET NO.  
**23283 ED-101**

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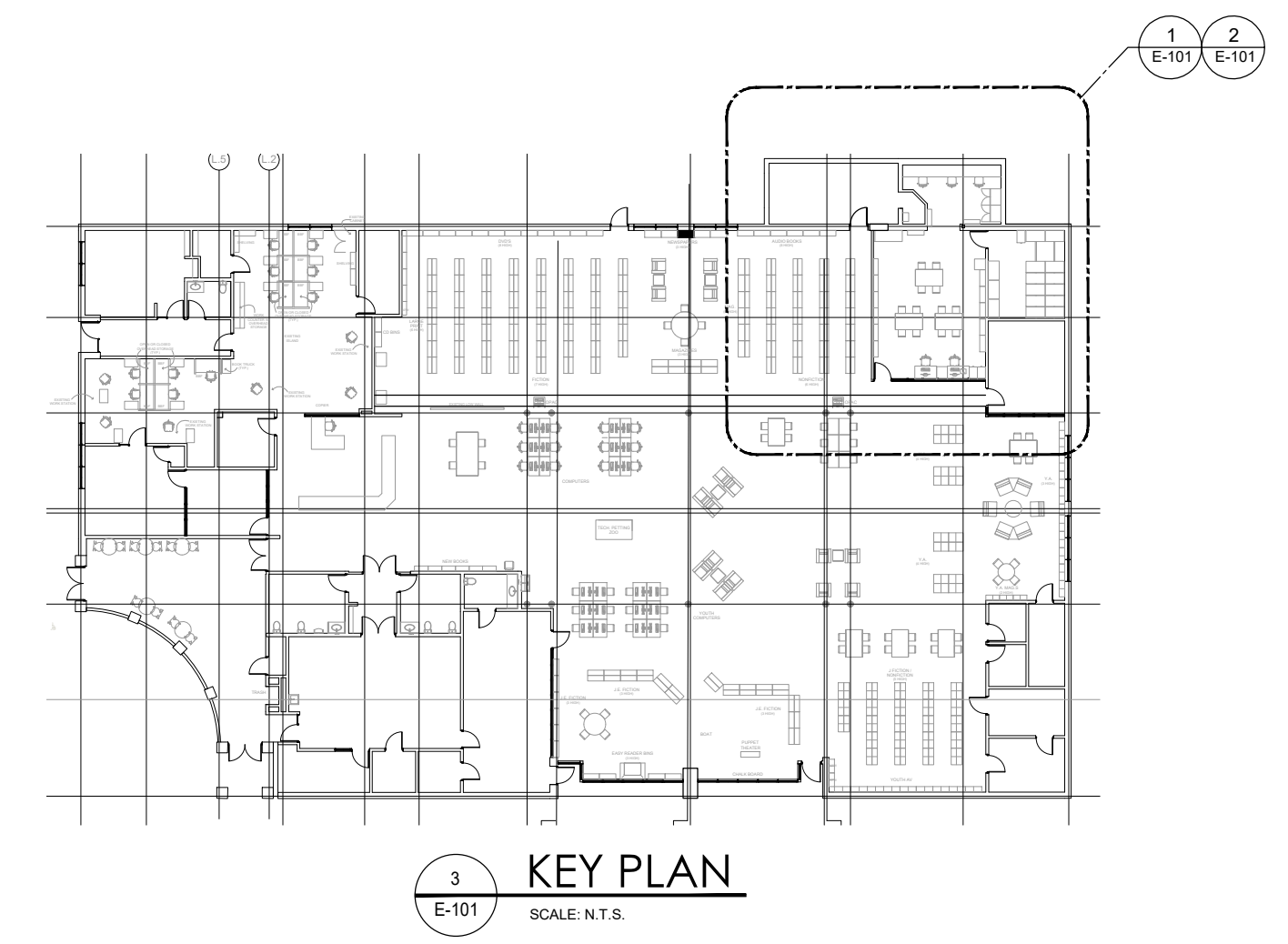
2 POWER NEW WORK PLAN  
 SCALE: 1/8" = 1'-0"

LIGHTING FIXTURE SCHEDULE :

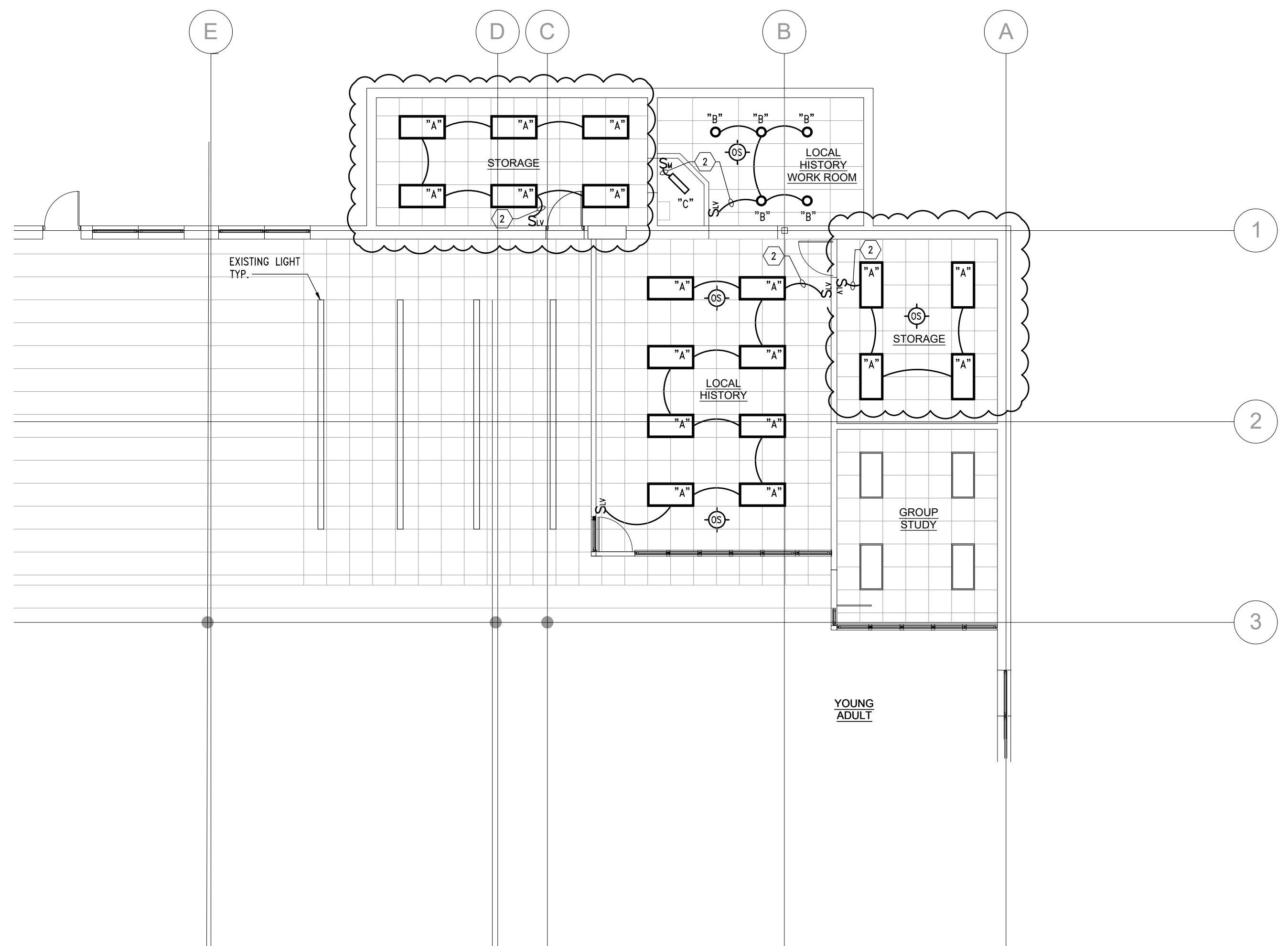
- "A" LED RECESSED LAY-IN 2'x4' LIGHTING FIXTURE COLD ROLLED STEEL FRAME, VOLUMETRIC SOFT HIGH ANGLE LIGHTING, 120-277V, 0-10V HRF ELECTRONIC DIMMING DRIVER, 39W, SELECTABLE MULTI-LUMEN PACKAGE 3000/4000/5000 LUMENS, SELECTABLE COLOR TEMP. 3000/3500/4000°K, SET AT 5000 LUMENS AND 3500°K, ORACLE LIGHTING #Z4-OEHP-LED-5000L-DIM10-MVOLT-35K-85 OR APPROVED EQUAL.
- "B" LED RECESSED DOWNLIGHT, 6" APERTURE, CLEAR SPECULAR LOW IRIDESCENT ALZAK FINISH REFLECTOR, LENSED AND WET LOCATION LISTED, UNIVERSAL VOLTAGE DRIVER, 0-10V DIMMING, 24W WITH MINIMUM 2000 LUMEN PACKAGE WITH 4000°K COLOR, MAXILUME #HH6-LED-2000LM-FL-40K-HHG-6501-CL-WH OR APPROVED EQUAL.
- "C" LED 2' LONG STRIP LIGHT, WHITE FINISH HOUSING, ACRYLIC DIFFUSER, UNIVERSAL VOLTAGE DRIVER, 0-10V DIMMING, 23W WITH 3000 LUMEN AND 4000°K COLOR, ELITE #2-0C1-LED-5000L-DIM10-MVOLT-40K-85 OR APPROVED EQUAL.

KEY NOTES:

- 1 WIRE TO EXISTING BRANCH CIRCUIT SERVING SAME ROOM RECEPTACLES.
- 2 WIRE TO EXISTING LIGHTING CIRCUIT SALVAGED FROM DEMOLITION.
- 3 WIRE TO A DEDICATED 20A-120V CIRCUIT FROM WITHIN PANEL RPB, PROVIDE A NEW 20A, 1P BREAKER IN EXISTING SPACE AS REQUIRED.
- 4 WIRE TO A DEDICATED 20A, 120V CIRCUIT FROM PANEL RP-B, SEE PLAN FOR LOCATION.
- 5 PROVIDE AND/OR MODIFY EXISTING FIRE ALARM SYSTEM COVERAGE IN THE RENOVATED AREAS AS A MODIFICATION OF THE EXISTING BUILDING FIRE ALARM SYSTEM INCLUDING ALL MONITORING, POWER SUPPLIES, INITIATING DEVICES, INDICATING AND NOTIFICATION APPLIANCES, CONTROL MODULES, WIRING AND TESTING AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND FACILITY STANDARDS. DEVICES ARE NOT INDICATED ON PLANS. SYSTEM EXTENSION/MODIFICATION SHALL BE LAID OUT ON A PERFORMANCE BASIS AND APPROVAL BY THE AUTHORITIES AND SHALL COMPLY WITH FACILITY STANDARDS.
- 6 PROVIDE SINGLE GANG ADJUSTABLE FLOOR BOX WITH DUPLEX RECEPTACLE AND COVER, VERIFY EXACT LOCATION WITH OWNER, SAW CUT THE FLOOR TO LOCATION OF NEW WALL AS INDICATED AND RUN POWER FEEDER CONCEALED, FLOOR BOX SHALL BE LEGRAND RFB4-06 OR APPROVED EQUAL.



3 KEY PLAN  
 SCALE: N.T.S.



1 LIGHTING NEW WORK PLAN  
 SCALE: 1/8" = 1'-0"



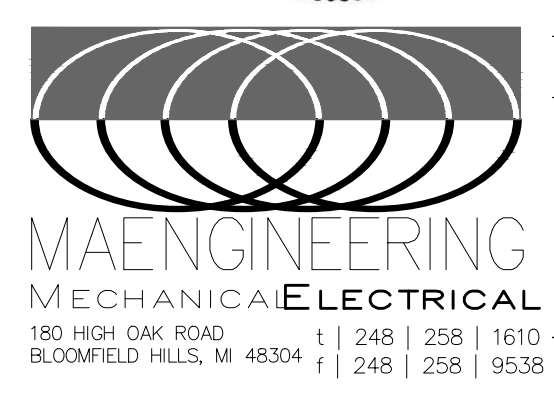
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**ELECTRICAL LIGHTING AND POWER NEW WORK PLAN**



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