

**LIGHTING CONTROL DETAIL**  
NO SCALE

NOTE:  
MAINTAIN SEPARATE NON SWITCHED LIGHTING LEG FOR NIGHTLIGHTS, EXIT SIGNS AND EMERGENCY BATTERY PACKS. DO NOT RUN THESE UNSWITCHED LEGS THRU TIME CLOCK. ADD ADDITIONAL UNSWITCHED LEGS FOR CIRCUITS 10.

**LIGHTING PLAN GENERAL NOTES**

1. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS SHALL BE 3/4". 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO LUMINAIRES WHERE APPLICABLE. ALL LIGHTING BRANCH CIRCUITS SHALL TERMINATE AT 20A/1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
2. PROVIDE LOCK-ON CIRCUIT BREAKER DEVICES FOR ALL EMERGENCY LIGHTING & EXIT SIGN BRANCH CIRCUITS.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE LOCATIONS.
4. ALL LUMINAIRES SHOWN HALF SHADED SHALL BE WIRED (NON-SWITCHED CIRCUIT) DIRECTLY TO THE EMERGENCY PANEL. PROVIDE DEDICATED NEUTRAL CONDUCTOR TO EACH BRANCH CIRCUIT TO THE EMERGENCY PANEL.
5. EMERGENCY BATTERY PACKS SHOWN ARE TO BE CONNECTED TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF LOCAL SWITCH UNLESS NOTED OTHERWISE.
6. ALL DIMMING SYSTEM CONTROL WIRING SHALL BE RATED AT 600V AND SHALL BE IN THE SAME CONDUIT AS THE CIRCUIT PROVIDING POWER TO THE LIGHT FIXTURE. CONDUIT SHALL BE 1/2" MINIMUM FOR DIMMING SYSTEM CONTROL WIRING WHERE RAN INDEPENDENT OF THE CIRCUIT SUPPLYING POWER TO THE FIXTURES.
7. PROVIDE SEPARATE NEUTRAL FOR ALL DIMMED CIRCUITS.
8. IN EXISTING WORK WHEN UTILIZING EXISTING SPACES OR SPARES, CONTRACTOR SHALL PROVIDE DEDICATED NEUTRAL FOR EACH BRANCH CIRCUIT UNLESS HANDLE TIES ARE UTILIZED TO MEET THE REQUIREMENTS OF ARTICLE 210.4(B).

**DEMOLITION PLAN GENERAL NOTES**

1. ALL INDICATED ELECTRICAL EQUIPMENT, FIXTURES, DEVICES, AND RELATED CONDUIT AND WIRING TO BE REMOVED UNLESS NOTED OTHERWISE.
2. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTOR'S WORK.
3. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWING(S) TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LUMINAIRES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
4. CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRED TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LUMINAIRES, DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES, AND REMOVE ALL ABANDONED CONDUIT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER WHICH ITEMS INDICATED TO BE REMOVED & DISCONNECTED SHALL BE SALVAGED AND PRESENTED TO THE OWNER PRIOR TO ANY DISPOSAL OF THESE ITEMS.
6. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. WHERE WORK CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS INVOLVES THE REMOVAL OF FLUORESCENT LAMPS CONTAINING MERCURY OR CLOTH INSULATED CONDUCTORS, THEY SHALL BE PROPERLY HANDLED AND REMOVED FROM SITE BY APPROVED METHODS PER EPA REGULATIONS.
7. EXISTING SWITCHLEGS AND LIGHTING CIRCUITS ON DEMOLITION PLAN ARE SHOWN FOR REFERENCE. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING SWITCHING AND MAKE MODIFICATIONS TO EXISTING WIRING SYSTEM TO ACCOMMODATE NEW CONTROLS AND SWITCHLEGS.

**DRAWING NOTES (TYPICAL FOR THIS DRAWING ONLY)**

- ① EXISTING MOMENTARY SWITCHES CONTROLLING CONTACTORS LOCATED IN BOOK STACK AREAS. SWITCHES AND CONTACTOR TO REMAIN TO ALLOW BI-LEVEL SWITCHING OF NEW FIXTURES.
- ② EXISTING PENDENT MOUNT LIGHT FIXTURE WITH BI-LEVEL SWITCHING. FIXTURE TO BE REMOVED, EXISTING CONDUCTORS AND RACEWAY SYSTEM TO BE REMAIN AND BE REUSED TO SERVE NEW LED LIGHT FIXTURES.
- ③ FIXTURE CONTROLLED BY EXISTING CONTACTOR
- ④ CONTINUOUS ROW FIXTURE WITH NIGHT LIGHT SECTION. NIGHT LIGHT SECTION TO BE REPLICATED IN NEW FIXTURE.
- ⑤ EXISTING WALL, PENDENT, RECESSED OR SURFACE MOUNT FIXTURE REPLACED WITH NEW IN SAME LOCATION. FIXTURE TO BE REMOVED, EXISTING CONDUCTORS AND RACEWAY SYSTEM TO BE REMAIN AND BE REUSED TO SERVE NEW LED LIGHT FIXTURES. EXISTING SWITCHLEGS TO REMAIN, REPLACE CONTROL DEVICE AS NOTED ON NEW WORK PLAN.
- ⑥ EXISTING EXTERIOR LIGHTING TO BE REPLACED AS SCHEDULED.
- ⑦ NEW 16 CIRCUIT INTERMATIC TIME CLOCK CONTROLLER ET91615CR. INTERCEPT AND EXTEND EXISTING CIRCUITS 1,3,5,7,9,11,13,2,4,6,8,10,12 THROUGH NEW TIME CLOCK CONTROL CIRCUITS TO PROVIDE IECC 2015 ENERGY CODE COMPLIANCE. REFER TO SYSTEM DIAGRAM. UTILIZE SPACE IN ANY 120V PANEL TO PROVIDE 120V POWER TO TIME CLOCK. MODIFY EXISTING CIRCUITS FROM PANEL 'A' AS REQUIRED TO EXTEND THRU TIME CLOCK. PROVIDE WIRE WAYS, RACEWAYS AND CONDUCTORS AS REQUIRED.
- ⑧ MOMENTARY CONTACT SWITCH WIRED TO NEW TIME CLOCK. PROGRAM SYSTEM FOR MOMENTARY SWITCH TO PROVIDE 2 HOUR OVERRIDE OF TIME CLOCK FUNCTION.
- ⑨ NIGHT LIGHT SECTION, EXIT SIGN, OR EM BATTERY LIGHT TO BE WIRED AHEAD OF LOCAL SWITCHING, TIME CLOCK, AND/OR CONTACTOR. PROVIDE NEW UNCONTROLLED LEG FROM SAME CIRCUIT AHEAD OF ANY LOCAL OR BUILDING CONTROLS SO AS TO MAINTAIN CONSTANT 120V POWER TO DEVICE. NIGHTLIGHT FIXTURE OR NIGHTLIGHT SECTION OF CONTINUOUS ROW FIXTURE TO HAVE UPLIGHT PORTION WIRED TO NIGHTLIGHT CIRCUIT AND DOWNLIGHT PORTION WIRED TO SWITCHLEG INDICATED.

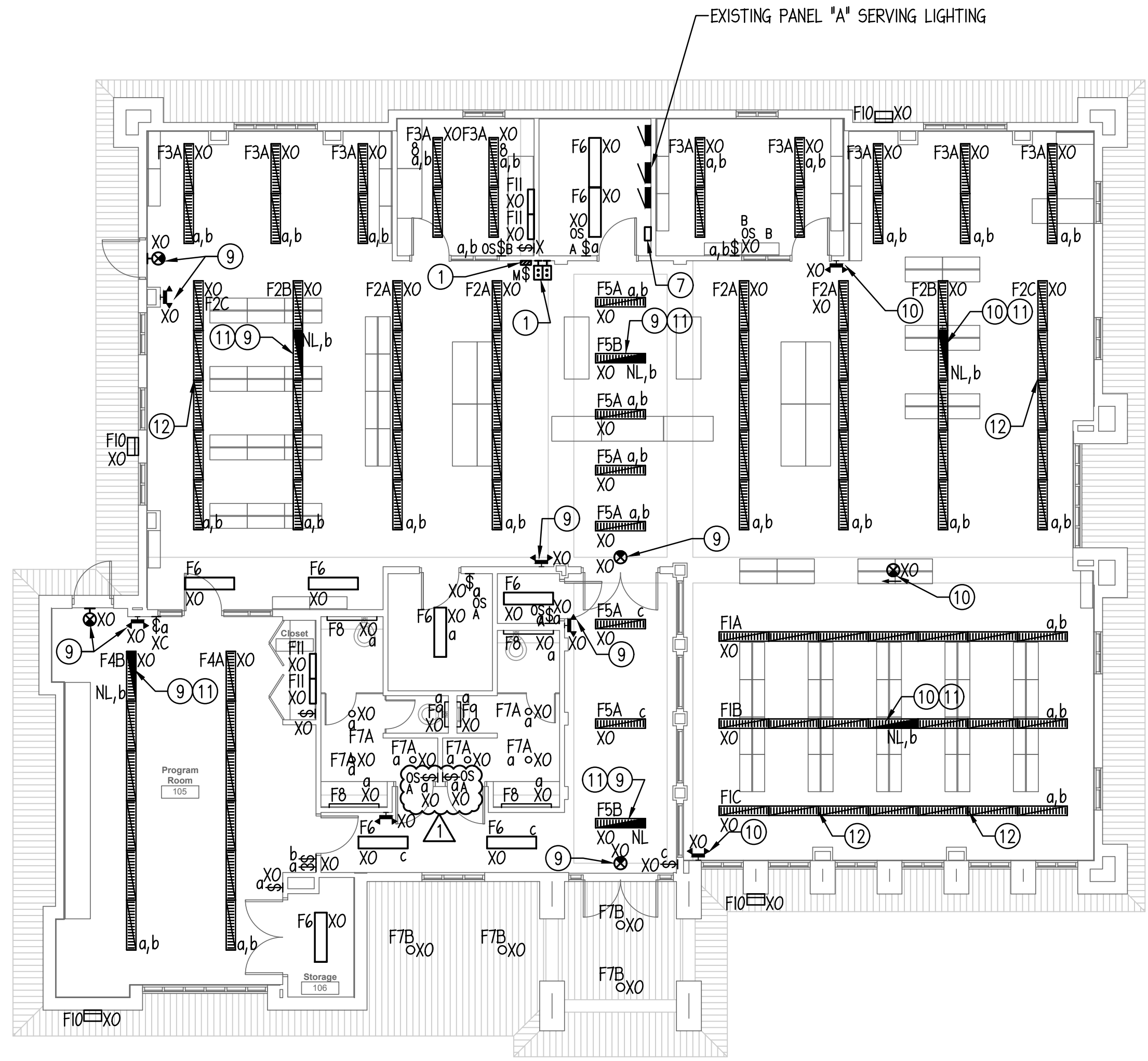
- ⑩ NIGHT LIGHT SECTION, EXIT SIGN, OR EM BATTERY LIGHT TO BE WIRED AHEAD OF LOCAL SWITCHING, TIME CLOCK, AND/OR CONTACTOR. EXISTING UNCONTROLLED LEG FROM SAME CIRCUIT AHEAD OF ANY LOCAL OR BUILDING CONTROLS IS EXISTING TO REMAIN. CONNECT NEW DEVICE TO EXISTING UNCONTROLLED CIRCUIT SO AS TO MAINTAIN CONSTANT 120V POWER TO DEVICE.
- ⑪ NIGHTLIGHT FIXTURE OR NIGHTLIGHT SECTION OF CONTINUOUS ROW FIXTURE TO HAVE UPLIGHT PORTION WIRED TO NIGHTLIGHT CIRCUIT AND DOWNLIGHT PORTION WIRED TO SWITCHLEG INDICATED.
- ⑫ FIXTURE INTEGRAL DAYLIGHT SENSOR LOCATION.

**NOTE**  
IT IS THE PROJECT INTEND TO INSTALL NEW LIGHT FIXTURES IN SAME LOCATIONS AS EXISTING UTILIZING EXISTING JUNCTION BOX FEED LOCATIONS AND MOUNTING POINTS SO AS TO MINIMIZE THE AMOUNT OF CUTTING AND PATCHING REQUIRED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING POWER FEED AND MOUNTING LOCATIONS OF EXISTING FIXTURES AND COORDINATING WITH NEW FIXTURE MANUFACTURE TO PROVIDE NEW FIXTURES WITH MOUNTING POINTS AND POWER FEED LOCATIONS IN CORRESPONDING LOCATIONS TO THE EXISTING FIXTURES. CONTRACTOR SHALL MODIFY AND EXTEND EXISTING RACEWAY AND CONDUCTORS AND/OR PROVIDE NEW RACEWAY AND CONDUCTORS AS REQUIRED TO FACILITATE THE PROJECT SCOPE.

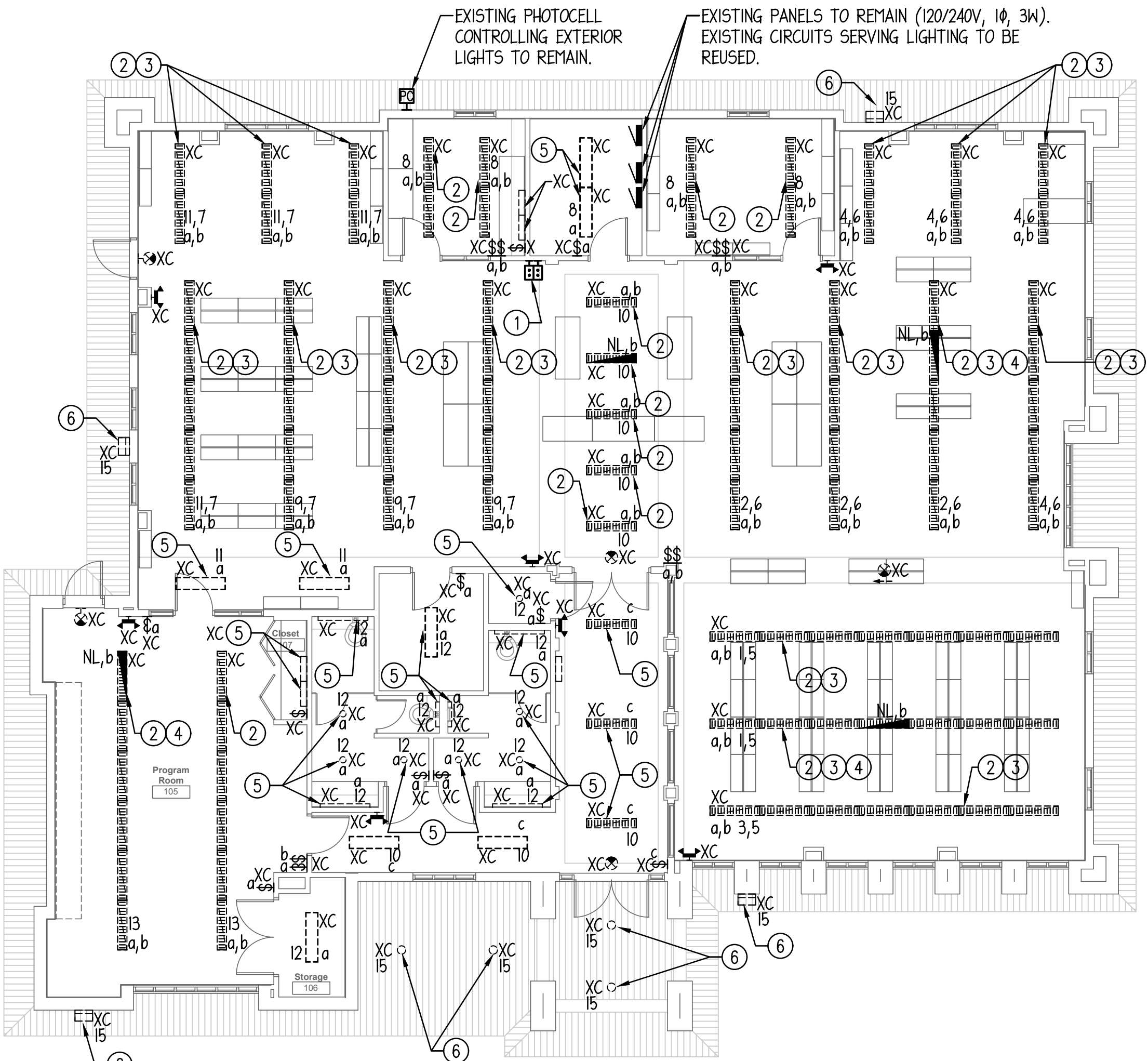
**NOTE**  
EXISTING SWITCHLEGS AND CIRCUIT NUMBERS WERE OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE ENGINEER.

DEMOLITION SYMBOLS	
SYMBOL	DESCRIPTION
R	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED.
X	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO REMAIN.
XC	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED AND JUNCTION BOX CAPPED OR REUSED AS REQUIRED.
XO	NEW ELECTRICAL EQUIPMENT INSTALLED OVER EXISTING OUTLET.
XRR	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REMOVED, RELOCATED AND JUNCTION BOX REMOVED OR CAPPED AS REQUIRED.
XR	EXISTING ELECTRICAL EQUIPMENT OR OUTLET RELOCATED (NEW LOCATION).
XRT	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE TEMPORARILY REMOVED AND REINSTALLED IN SAME LOCATION.
XA	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE ABANDONED.
XM	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE MODIFIED.
XW	EXISTING ELECTRICAL EQUIPMENT OR OUTLET TO BE REWIRED.

NOTE: NOT ALL SYMBOLS MAY BE USED.



② LIGHTING PLAN - New  
1/8" = 1'-0"

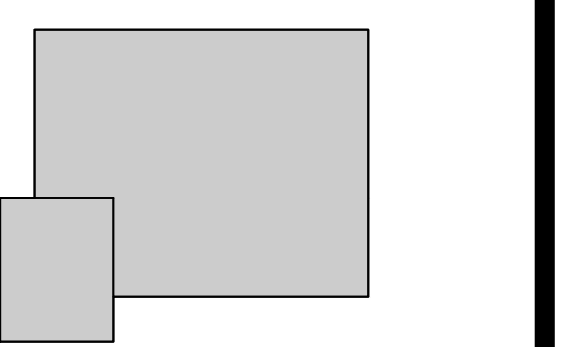


① LIGHTING PLAN - Demolition  
1/8" = 1'-0"



Lighting Replacement & Minor Alterations

Hudson Area Public Library District  
104 Pearl Street  
Hudson Illinois 61748



NO	ISSUE	DATE
1	Bid Set	5/1/2018
1	ADDENDUM 1	5/10/2018

INTERIOR LIGHTING PLANS

E1.01

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