

REPLACE LIGHTING HEALTH EDUCATION CENTER CLASSROOMS SC STATE PROJECT #H34-I369

UNIVERSITY OF SOUTH CAROLINA
UPSTATE
Spartanburg, South Carolina

DESIGN TEAM

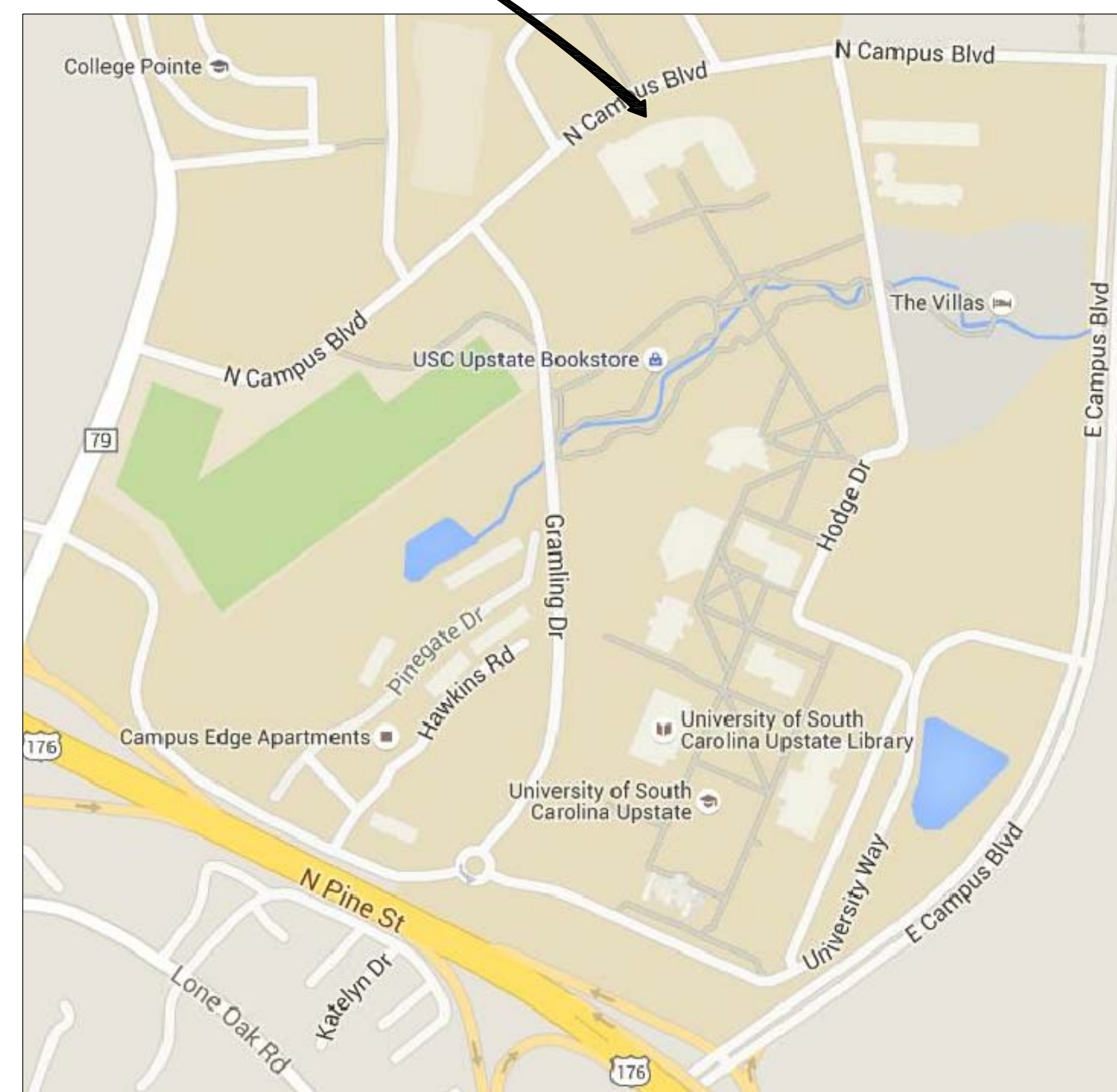
OWNER

UNIVERSITY OF SOUTH CAROLINA UPSTATE
800 UNIVERSITY WAY
SPARTANBURG, SC 29303 (864) 503-5538

ELECTRICAL ENGINEER

LAND ENGINEERING ASSOCIATES, LLC
262 SANDHURST ROAD, SUITE 101
COLUMBIA, SC 29210 (803) 528-1437
JOSEPH W. LAND, P.E.

HEALTH EDUCATION
CENTER COMPLEX



VICINITY MAP

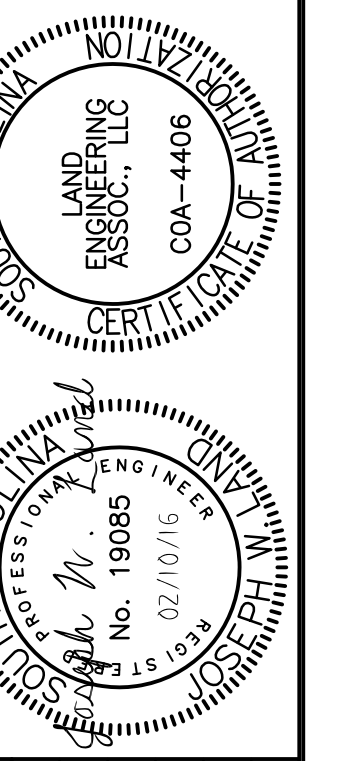
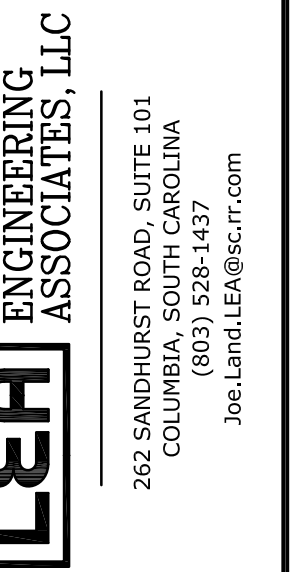
INDEX OF DRAWINGS

DWG. #	SHEET TITLE
T-1	PROJECT TITLE SHEET

ELECTRICAL DRAWINGS

E-1	GENERAL NOTES, LEGEND, AND SCHEDULES
E-2	LOWER LEVEL LIGHTING PLANS
E-3A	MAIN LEVEL LIGHTING PLANS
E-3B	MAIN LEVEL LIGHTING PLANS
E-3C	MAIN LEVEL LIGHTING PLANS
E-4	UPPER LEVEL LIGHTING PLANS
E-5	LOWER LEVEL RENOVATION PLAN - LUTRON
E-6	MAIN LEVEL RENOVATION PLAN - LUTRON
E-7	FIRESTOP PENETRATION DETAILS

OFFICE OF
FACILITIES MANAGEMENT
COLUMBIA, SC 29208



DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY

State Project No. H34-I369

REPLACE LIGHTING HEC CLASSROOMS

University of South Carolina



T-1

1 OF 10

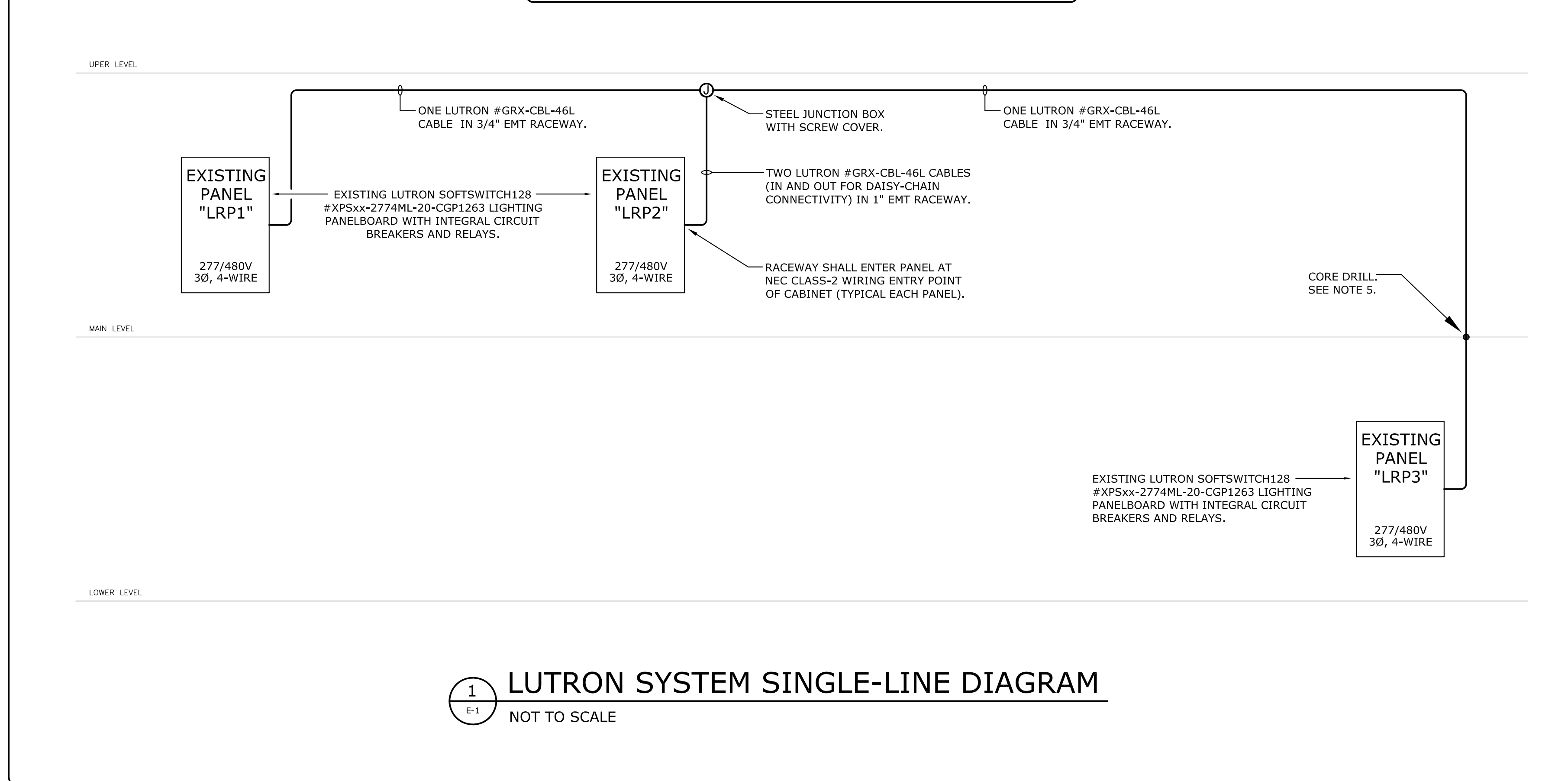
1 OF 10

LIGHTING FIXTURE SCHEDULE								
SYMBOL	TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	OPTICAL ELEMENT	MOUNTING	VOLTS	LIGHT SOURCE
	A	2'x4' STATIC DIRECT/INDIRECT L.E.D. GRID TROFFER.	CREE	ZR24-40L-40K WITH 10-YEAR WARRANTY ON L.E.D. ARRAYS AND DRIVER.	DIRECT/INDIRECT w/CENTER BASKET	CEILING GRID RECESSED	120/277V UNIVERS.	L.E.D. - 4000 lumens, 4000K 44 WATTS, 90 LPW
	AE	SAME AS FIXTURE TYPE "A" EXCEPT CONNECTED TO A GENERATOR-BACKED CIRCUIT.	CREE	ZR24-40L-40K WITH 10-YEAR WARRANTY ON L.E.D. ARRAYS AND DRIVER.	DIRECT/INDIRECT w/CENTER BASKET	CEILING GRID RECESSED	120/277V UNIVERS.	L.E.D. - 4000 lumens, 4000K 44 WATTS, 90 LPW
	B	2'x2' STATIC DIRECT/INDIRECT L.E.D. GRID TROFFER.	CREE	ZR22-32L-40K-10V WITH 10-YEAR WARRANTY ON L.E.D. ARRAYS AND DRIVER.	DIRECT/INDIRECT w/CENTER BASKET	CEILING GRID RECESSED	120/277V UNIVERS.	L.E.D. - 3200 lumens, 4000K 35 WATTS, 90 LPW
	BE	SAME AS FIXTURE TYPE "B" EXCEPT CONNECTED TO A GENERATOR-BACKED CIRCUIT.	CREE	ZR22-32L-40K-10V WITH 10-YEAR WARRANTY ON L.E.D. ARRAYS AND DRIVER.	DIRECT/INDIRECT w/CENTER BASKET	CEILING GRID RECESSED	120/277V UNIVERS.	L.E.D. - 3200 lumens, 4000K 35 WATTS, 90 LPW

NOTE: PROVIDE GRID HOLD-DOWN CLIPS FOR EACH FIXTURE AS REQUIRED TO COMPLY WITH ASTM E-580 AND THE INTERNATIONAL BUILDING CODE.

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	LIGHTING FIXTURE; TYPE AND CIRCUIT NUMBER AS INDICATED ON PLAN - CONNECTED TO A NORMAL POWER CIRCUIT. SEE THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL SYMBOLS AND TYPES.
	LIGHTING FIXTURE; TYPE AND CIRCUIT NUMBER AS INDICATED ON PLAN - CONNECTED TO A GENERATOR-BACKED CIRCUIT. SEE THE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL SYMBOLS AND TYPES.
	L.E.D. SLIDE WALL DIMMER, COMPATIBLE WITH LIGHTING FIXTURES AND ASSOCIATED WATTAGES FOR EACH ROOM WHERE INSTALLED. PROVIDE A POWER PACK INSTALLED ABOVE ACCESSIBLE CEILING IN EACH ROOM IF REQUIRED TO PROPERLY DRIVE FIXTURES. FLUSH MOUNT DIMMER IN WALL AT 42 INCHES ABOVE FINISHED FLOOR AND AT WALL LOCATION IN EACH ROOM AS DIRECTED BY THE OWNER.
	STEEL PULL/JUNCTION BOX WITH SCREW COVER. SIZE BOX IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
	0-10 VOLT, PLENUM-RATED, DIMMER CONTROL CABLE. PROVIDE CABLES THAT ARE COMPATIBLE WITH DIMMING DRIVERS IN NEW LIGHTING FIXTURES. CABLES SHALL BE CONCEALED IN WALLS AND ABOVE ACOUSTICAL DROP CEILINGS. SUPPORT CABLES ABOVE CEILINGS IN ACCORDANCE WITH ARTICLE 300.11 AND ARTICLE 725 OF THE NATIONAL ELECTRICAL CODE.
	EXISTING PANELBOARD, SURFACE MOUNTED - TO REMAIN IN PLACE.
	EXISTING LUTRON LIGHTING PANELBOARD WITH INTEGRAL CIRCUIT BREAKERS AND RELAYS, SURFACE MOUNTED - TO REMAIN IN PLACE.
	EXISTING LIGHT SWITCH - TO REMAIN IN PLACE.
	EXISTING OCCUPANCY SENSOR THAT CONTROLS ROOM LIGHTING - TO REMAIN IN PLACE.
	EXISTING 2'x4' RECESSED FLUORESCENT TROFFER, CONNECTED TO A NORMAL POWER CIRCUIT - REMOVE.
	EXISTING 2'x4' RECESSED FLUORESCENT TROFFER, CONNECTED TO A GENERATOR-BACKED CIRCUIT - REMOVE.
	EXISTING 2'x2' RECESSED FLUORESCENT TROFFER, CONNECTED TO A NORMAL POWER CIRCUIT - REMOVE.
	EXISTING 2'x2' RECESSED FLUORESCENT TROFFER, CONNECTED TO A GENERATOR-BACKED CIRCUIT - REMOVE.

- ### SINGLE-LINE NOTES
- DRAWINGS E-5 AND E-6 ARE ASSOCIATED WITH THIS SINGLE-LINE DIAGRAM.
 - PROVIDE LUTRON #GRX-CBL-46L CABLES IN EMT RACEWAYS AS REQUIRED TO DAISY-CHAIN THE THREE EXISTING LIGHTING PANELBOARDS TOGETHER FOR DATA-LINK COMMUNICATIONS.
 - PROCURE THE SERVICES OF A FACTORY CERTIFIED LUTRON FIELD TECHNICIAN TO TERMINATE THE DATA-LINK CABLES AT EACH LIGHTING PANELBOARD, TO PROVIDE A LUTRON FIRMWARE UPDATE FOR EACH LIGHTING PANELBOARD, TO PROVIDE CUSTOM SETUP PROGRAMMING AS DIRECTED BY MICKEY JENNINGS OF USC UPSTATE, AND TO PROVIDE 4 HOURS OF TRAINING ON DATA-LINK PROGRAMMING OF TIME SCHEDULES FOR LOCAL AND REMOTE LIGHTING PANELBOARDS FROM MASTER LOCATION.
 - ROUTE RACEWAYS CONCEALED ABOVE ACOUSTICAL DROP CEILINGS AND TIGHT TO STRUCTURAL CEILINGS WHERE APPLICABLE. PROVIDE STEEL PULL BOXES IN LONG RACEWAY RUNS AS REQUIRED TO COMPLY WITH THE NATIONAL ELECTRICAL CODE. PROVIDE RACEWAY AND JUNCTION BOX SUPPORTS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
 - PROCURE THE SERVICES OF CHAO & ASSOCIATES (PHONE NUMBER 803-772-8420) OR EQUAL TO PERFORM A GROUND PENETRATING RADAR SCAN OF EXISTING CONCRETE FLOOR SLAB IN ORDER TO DETERMINE LOCATION FOR CORE DRILLING THAT WILL BE UNOBSTRUCTED. CORE DRILL FLOOR USING A DRY DRILLING METHOD/DRILL BIT. PROVIDE A U.L. LISTED 2-HOUR FIRESTOP SYSTEM FOR FLOOR CONDUIT PENETRATION (HILTI OR EQUAL).



1 LUTRON SYSTEM SINGLE-LINE DIAGRAM
NOT TO SCALE

- ### GENERAL CONSTRUCTION NOTES
- PROVIDE ALL WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
INTERNATIONAL BUILDING CODE 2012 EDITION
NFPA 70 - NATIONAL ELECTRICAL CODE 2011 EDITION
 - REMOVE EXISTING FLUORESCENT TROFFERS AND REPLACE WITH L.E.D. TYPE TROFFERS AS INDICATED ON PLAN. PROVIDE FIXTURES AS SHOWN IN THE LIGHTING FIXTURE SCHEDULE OR PRIOR-APPROVED EQUALS BY METALLUX OR LITHONIA. RECONNECT NEW FIXTURES TO EXISTING CIRCUITS.
 - ALL FIXTURES AND ELECTRICAL MATERIALS SHALL BE U.L. TESTED & LISTED OR BE TESTED & LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
 - PROVIDE SEISMIC WIRE SUPPORTS TO SUPPORT ALL NEW LIGHTING FIXTURES - ENSURE INSTALLATION COMPLIES WITH ASTM E-580 AND THE INTERNATIONAL BUILDING CODE (TWO WIRES FOR EACH TROFFER). IF EXISTING SUPPORT WIRES ARE RE-USED, ENSURE INSTALLATION COMPLIES WITH ASTM E-580 AND THE INTERNATIONAL BUILDING CODE.
 - LUTRON SYSTEM: RACEWAYS SHALL BE EMT WITH COMPRESSION TYPE FITTINGS UNLESS NOTED OR DETAILED OTHERWISE. JUNCTION BOXES SHALL BE STEEL TYPE WITH SCREW COVER, SIZED AND SUPPORTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL MEMBERS, OR OTHER SYSTEMS. PROVIDE A U.L. LISTED 2-HOUR RATED FIRESTOP SYSTEM FOR ALL WALL AND CEILING/FLOOR CONDUIT PENETRATIONS (HILTI OR EQUAL). WALL PENETRATION SHALL BE PROVIDED IN ACCORDANCE WITH DETAILS 1 AND 2 ON DRAWING E-7. CONSULT WITH HILTI FOR REQUIREMENTS FOR FLOOR/CEILING CONDUIT PENETRATION.
 - THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. THE CONTRACTOR SHALL INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL FIXTURES AND SYSTEMS. FURNISH 3 SETS OF OPERATION AND MAINTENANCE MANUALS TO THE OWNER FOR THE INSTALLED LIGHTING SYSTEM.
 - THE CONTRACTOR SHALL GUARANTEE THE WORK INSTALLED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER. SEE SPECIAL LIGHTING WARRANTY REQUIREMENTS IN LIGHTING FIXTURE SCHEDULE.
 - CUTTING, DRILLING, AND PATCHING: PROVIDE CHASES, SLOTS, AND OPENINGS IN EXISTING BUILDING COMPONENTS TO ALLOW FOR ELECTRICAL INSTALLATIONS. PERFORM CUTTING, DRILLING, FITTING, AND PATCHING REQUIRED TO:
A) INSTALL EQUIPMENT, MATERIALS, AND RACEWAYS IN EXISTING STRUCTURES.
B) REMOVE AND REPLACE DEFECTIVE WORK THAT DOES NOT CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.
C) UPON WRITTEN INSTRUCTIONS FROM THE ARCHITECT/ENGINEER, UNCOVER AND RESTORE WORK TO PROVIDE FOR ARCHITECT/ENGINEER OBSERVATION OF CONCEALED WORK.
PROTECT EXISTING STRUCTURES, FURNISHINGS, FINISHES, MECHANICAL SYSTEMS, AND ELECTRICAL SYSTEMS WHILE PERFORMING CUTTING, DRILLING, FITTING, AND PATCHING.
PATCH EXISTING SURFACES AND BUILDING COMPONENTS USING NEW MATERIALS THAT MATCH EXISTING MATERIALS. PATCHING SHALL BE PERFORMED BY EXPERIENCED INSTALLERS.

- ### GENERAL DEMOLITION NOTES
- REMOVE AND LEGALLY DISPOSE OF ALL EXISTING LIGHTING FIXTURES AND ASSOCIATED BALLASTS AND LAMPS.
 - THE CONTRACTOR SHALL VISIT THE SITE/BUILDING TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID AND SHALL INCLUDE ALL WORK REQUIRED FOR COMPLETE DEMOLITION IN HIS BID.

OFFICE OF
FACILITIES MANAGEMENT
COLUMBIA, SC 29208

USC-2015-07
LAND ENGINEERING ASSOCIATES, LLC
262 SANDHURST ROAD, SUITE 101
COLUMBIA, SC 29204
(803) 526-1437
Joe.Land.LEA@scrr.com

SEAL: CAROLINA PROFESSIONAL ENGINEERING ASSOCIATION
No. 19005
02/10/16

CHECKED BY: JIM	DATE:
ORIG. BY: JIM	DATE:
DRAWN BY: JIM	DATE:
DATE:	DESCRIPTION:
REV:	DESCRIPTION:

REPLACE LIGHTING HEC CLASSROOMS

University of South Carolina

PROJECT TITLE:

SHEET: E-1

2 OF 10

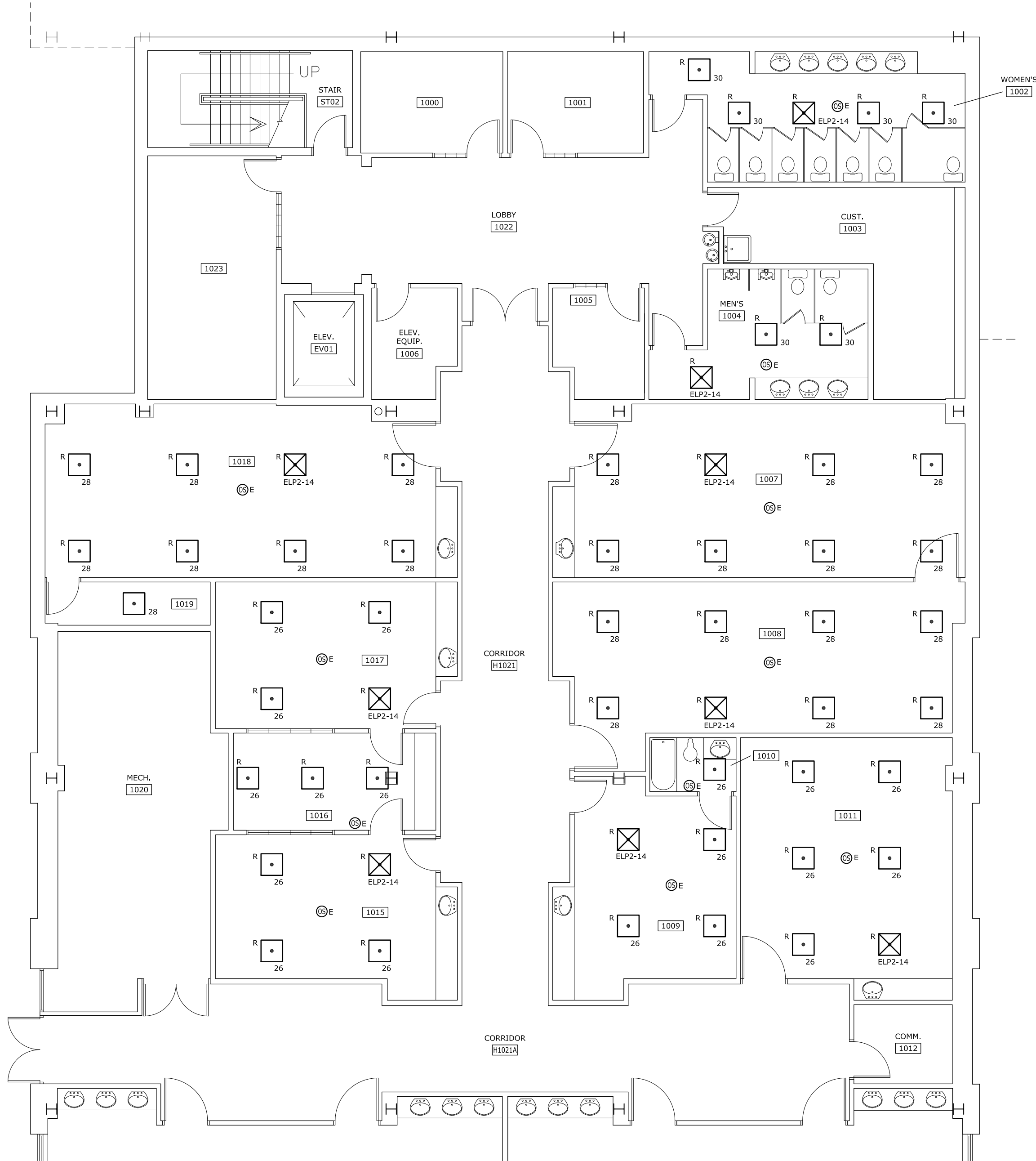
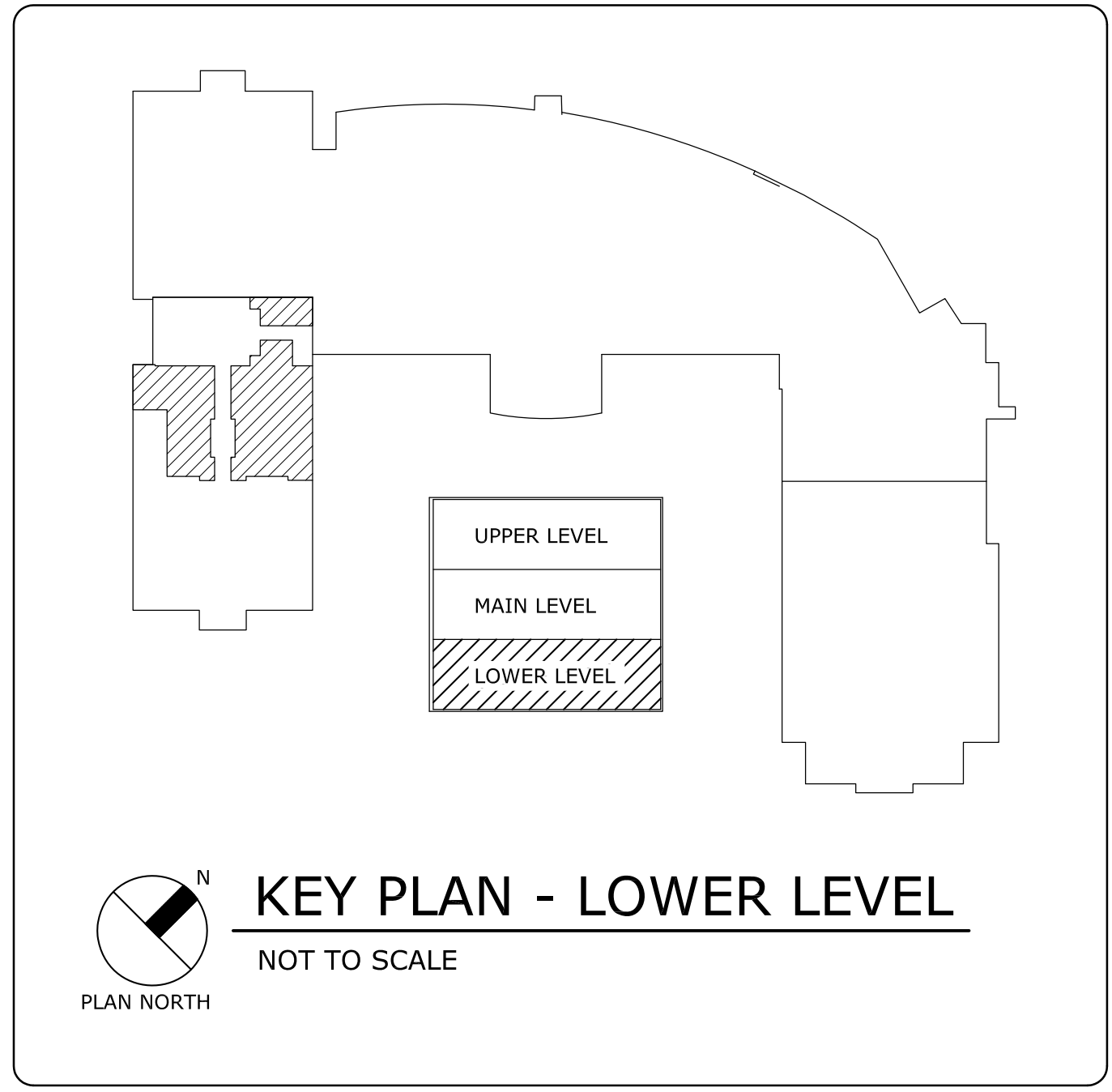
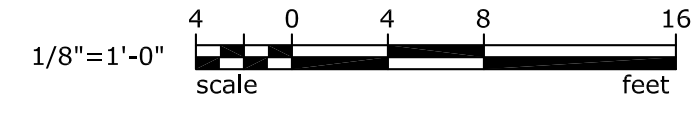
SHEET IN SET:

2 OF 10

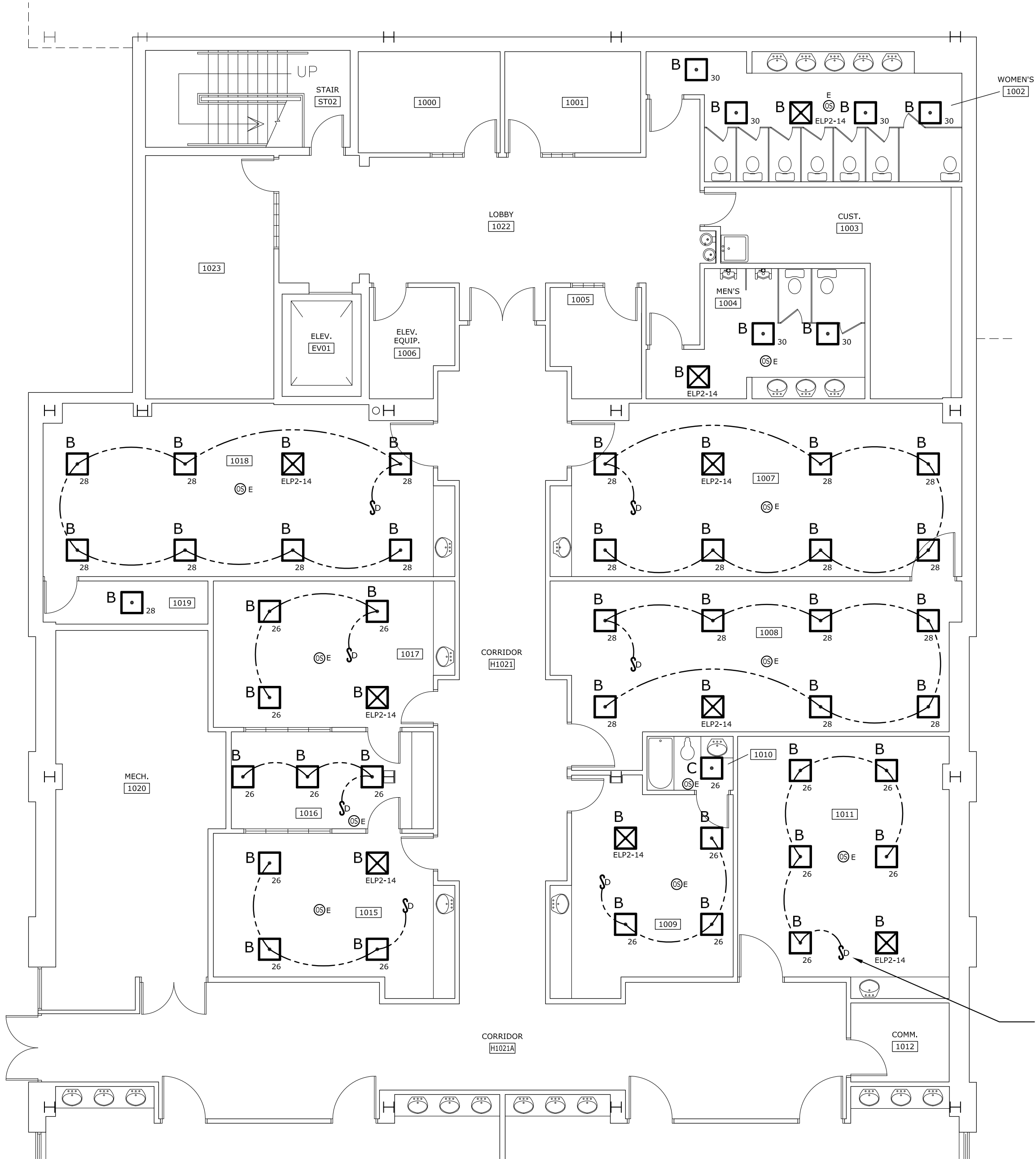
State Project No. H34-1669

LIGHTING NOTES

- ALL LIGHTING CIRCUITS INDICATED ON THIS PLAN ARE SERVED FROM PANEL "LRP1" UNLESS NOTED OTHERWISE.
SEE DRAWING E-3A FOR LOCATION OF PANEL "ELP2".
SEE DRAWING E-3B FOR LOCATION OF PANEL "LRP1".
- CIRCUIT NUMBERS SHOWN ON PLAN WERE COPIED FROM ORIGINAL BUILDING CONSTRUCTION DRAWINGS - FIELD VERIFY SOURCE OF CIRCUITS PRIOR TO WORKING ON EXISTING CIRCUIT WIRING.



1 LOWER LEVEL LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
PLAN NORTH



2 LOWER LEVEL LIGHTING RENOVATION PLAN
SCALE: 1/8" = 1'-0"
PLAN NORTH

OFFICE OF FACILITIES MANAGEMENT
COLUMBIA, SC 29208

USC 2015-07
LEA LAND ENGINEERING ASSOCIATES, LLC
262 SANDHURST ROAD, SUITE 101
COLUMBIA, SC 29204
(803) 528-1437
Joe.Land.LEA@scrr.com

SEAL: CAROLINA PROFESSIONAL ENGINEERING ASSOCIATION
No. 19005
02/10/16
C.O.A. - 4406
CERTIFICATE OF REGISTRATION

REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
01	08/11/16	ISSUE FOR PERMIT	JSJ	JM
02	08/11/16	ISSUE FOR PERMIT	JSJ	JM
03	08/11/16	ISSUE FOR PERMIT	JSJ	JM
04	08/11/16	ISSUE FOR PERMIT	JSJ	JM
05	08/11/16	ISSUE FOR PERMIT	JSJ	JM
06	08/11/16	ISSUE FOR PERMIT	JSJ	JM
07	08/11/16	ISSUE FOR PERMIT	JSJ	JM
08	08/11/16	ISSUE FOR PERMIT	JSJ	JM
09	08/11/16	ISSUE FOR PERMIT	JSJ	JM
10	08/11/16	ISSUE FOR PERMIT	JSJ	JM

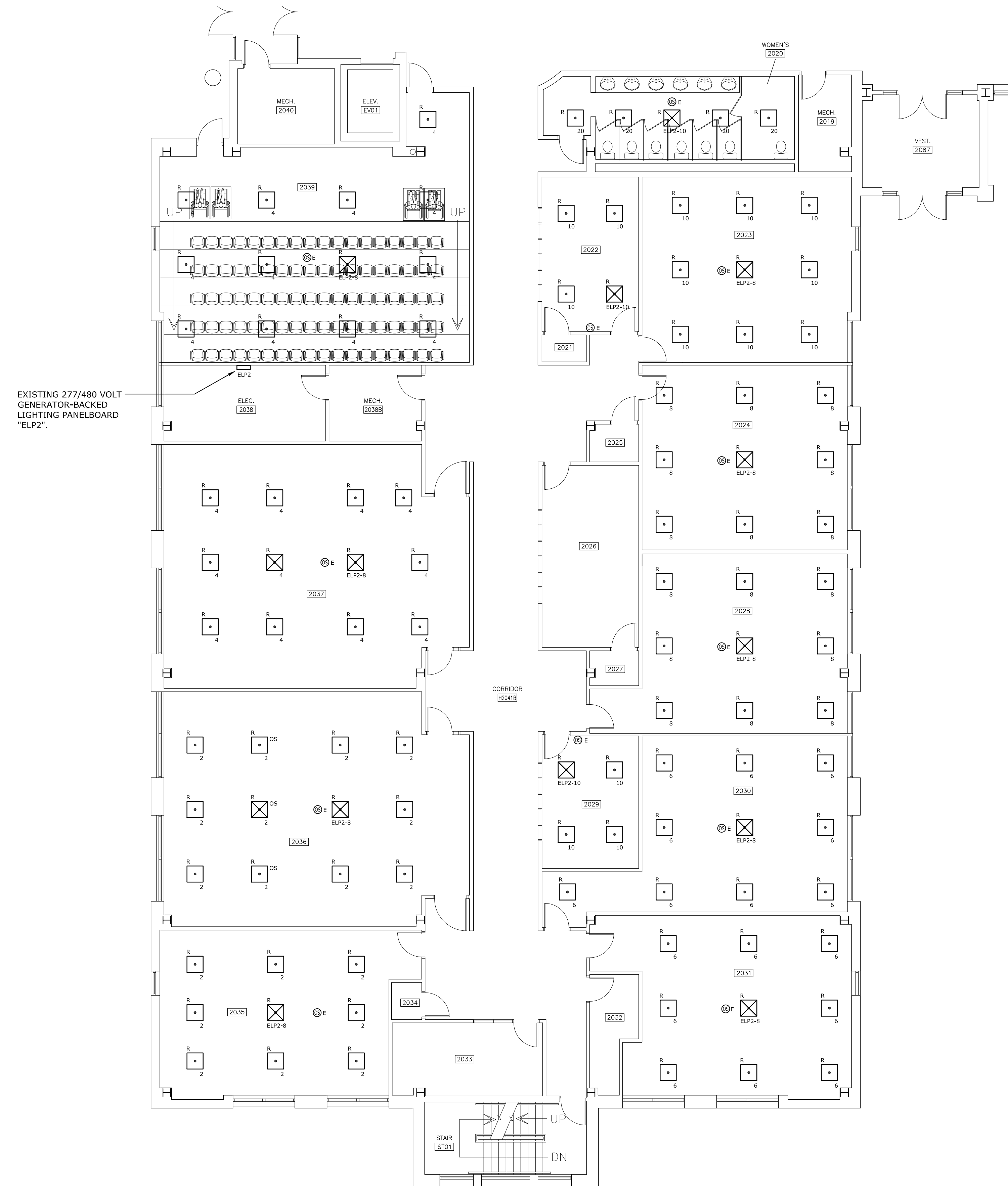
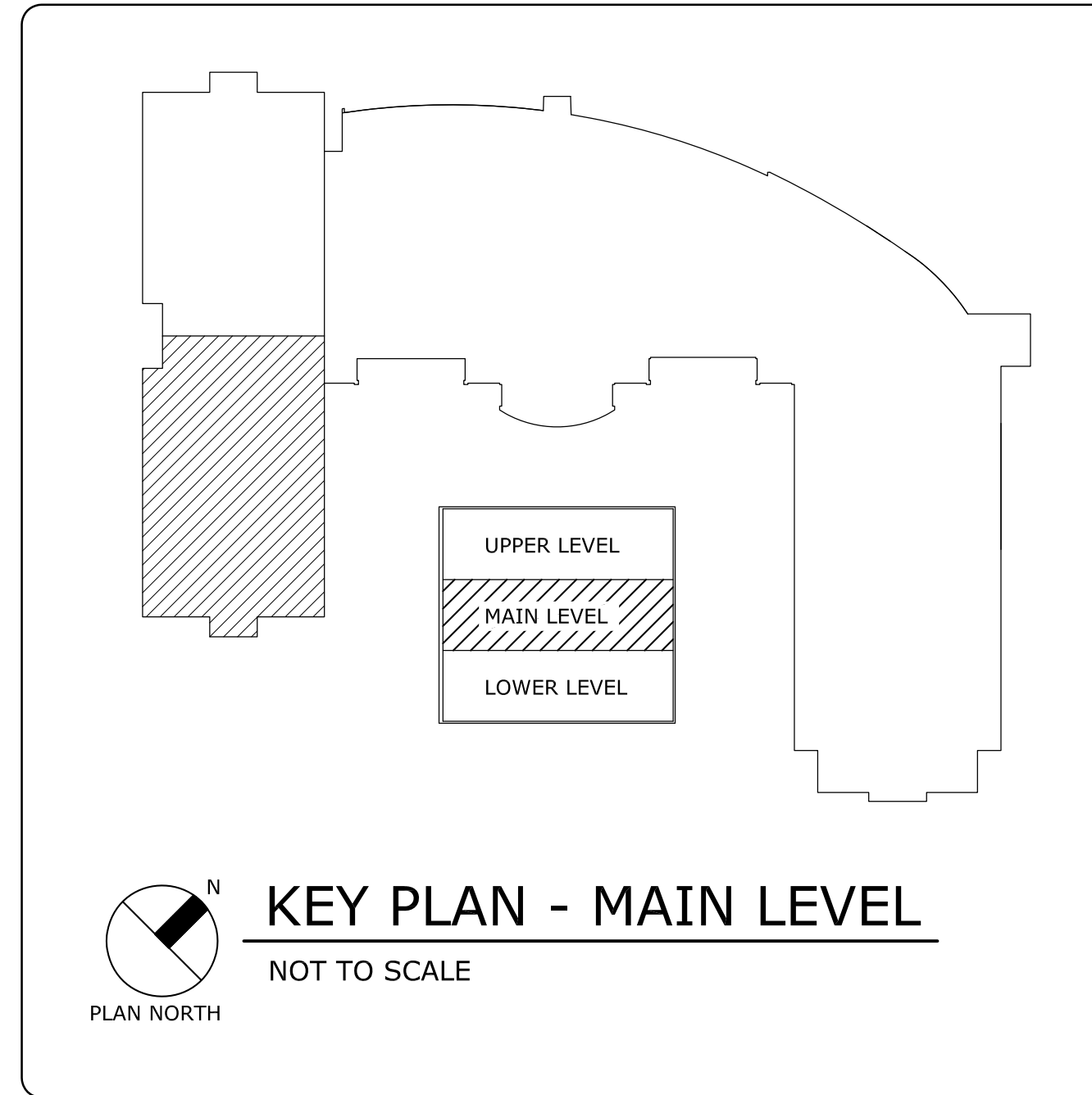
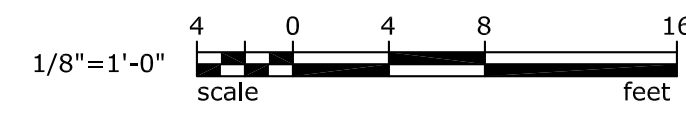
PROJECT TITLE: REPLACE LIGHTING HEC CLASSROOMS
SHEET: E-2
3 OF 10
SHEET IN SET: 3 OF 10

University of South Carolina

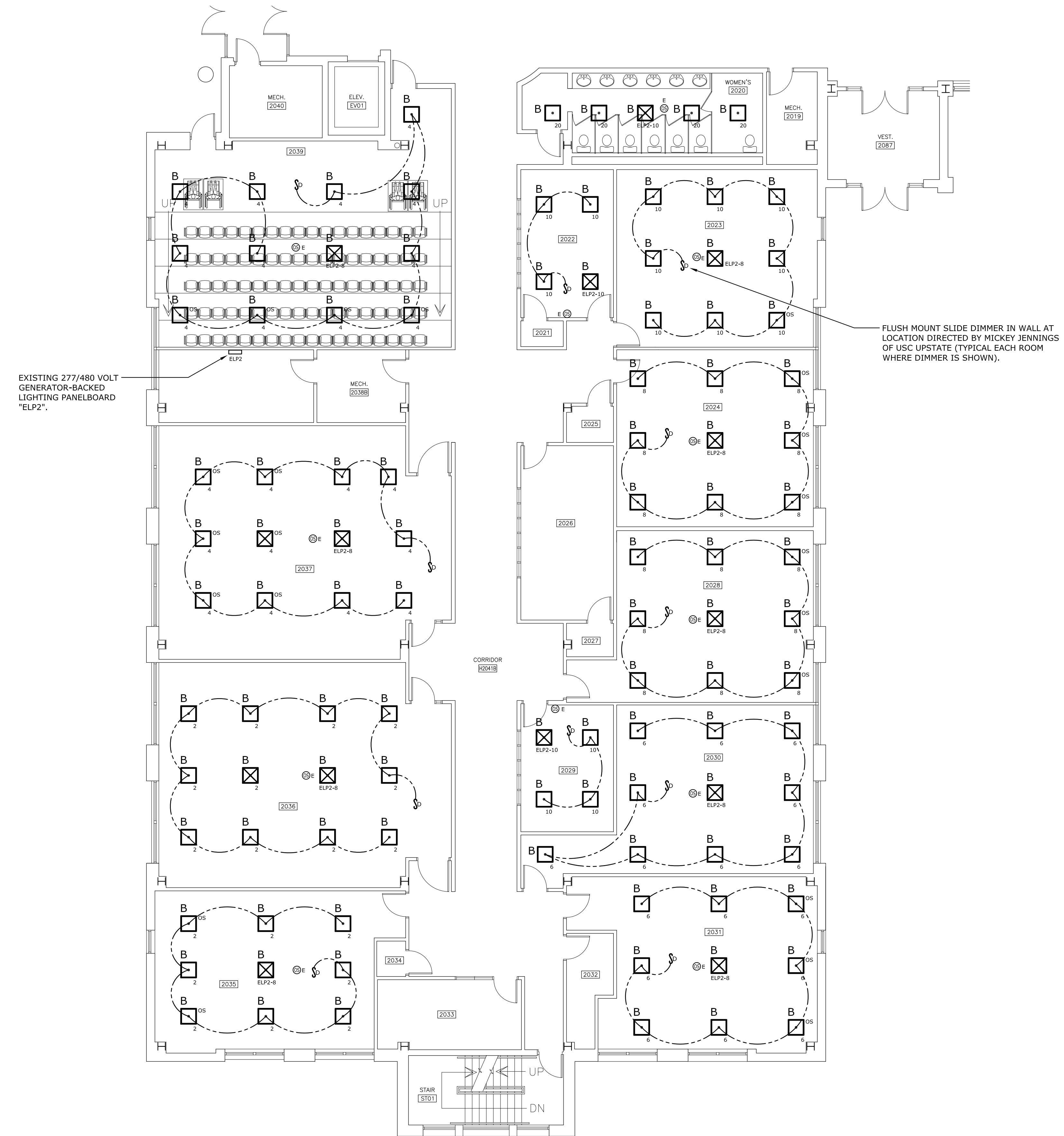
State Project No. H34-1669

LIGHTING NOTES

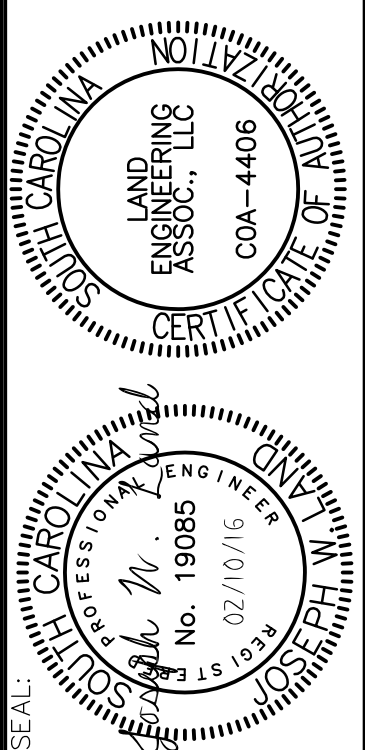
1. ALL LIGHTING CIRCUITS INDICATED ON THIS PLAN ARE SERVED FROM PANEL "LRP1" UNLESS NOTED OTHERWISE.
SEE DRAWING E-3B FOR LOCATION OF PANEL "LRP1".
2. CIRCUIT NUMBERS SHOWN ON PLAN WERE COPIED FROM ORIGINAL BUILDING CONSTRUCTION DRAWINGS - FIELD VERIFY SOURCE OF CIRCUITS PRIOR TO WORKING ON EXISTING CIRCUIT WIRING.



1 MAIN LEVEL LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



2 MAIN LEVEL LIGHTING RENOVATION PLAN
SCALE: 1/8" = 1'-0"

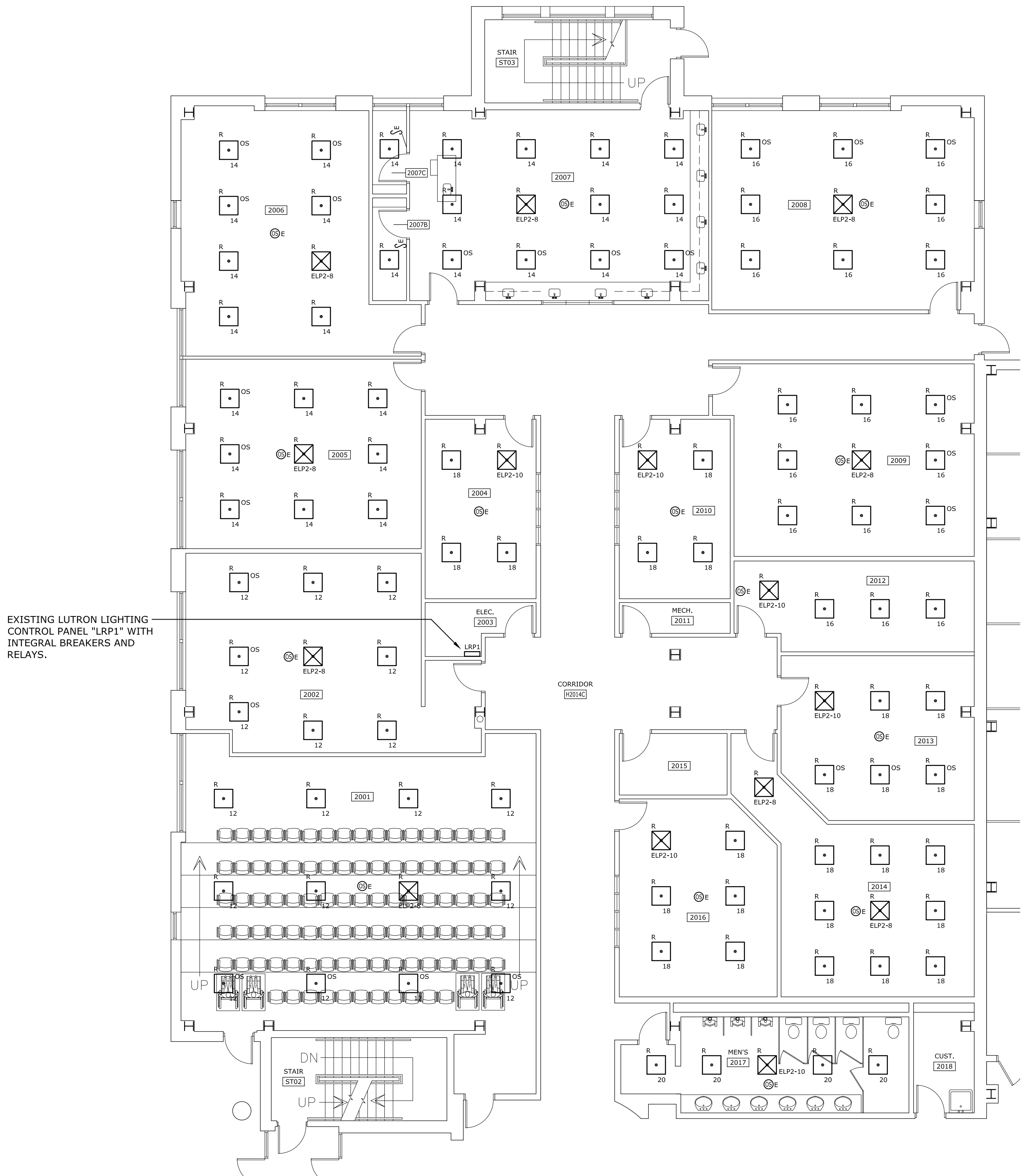
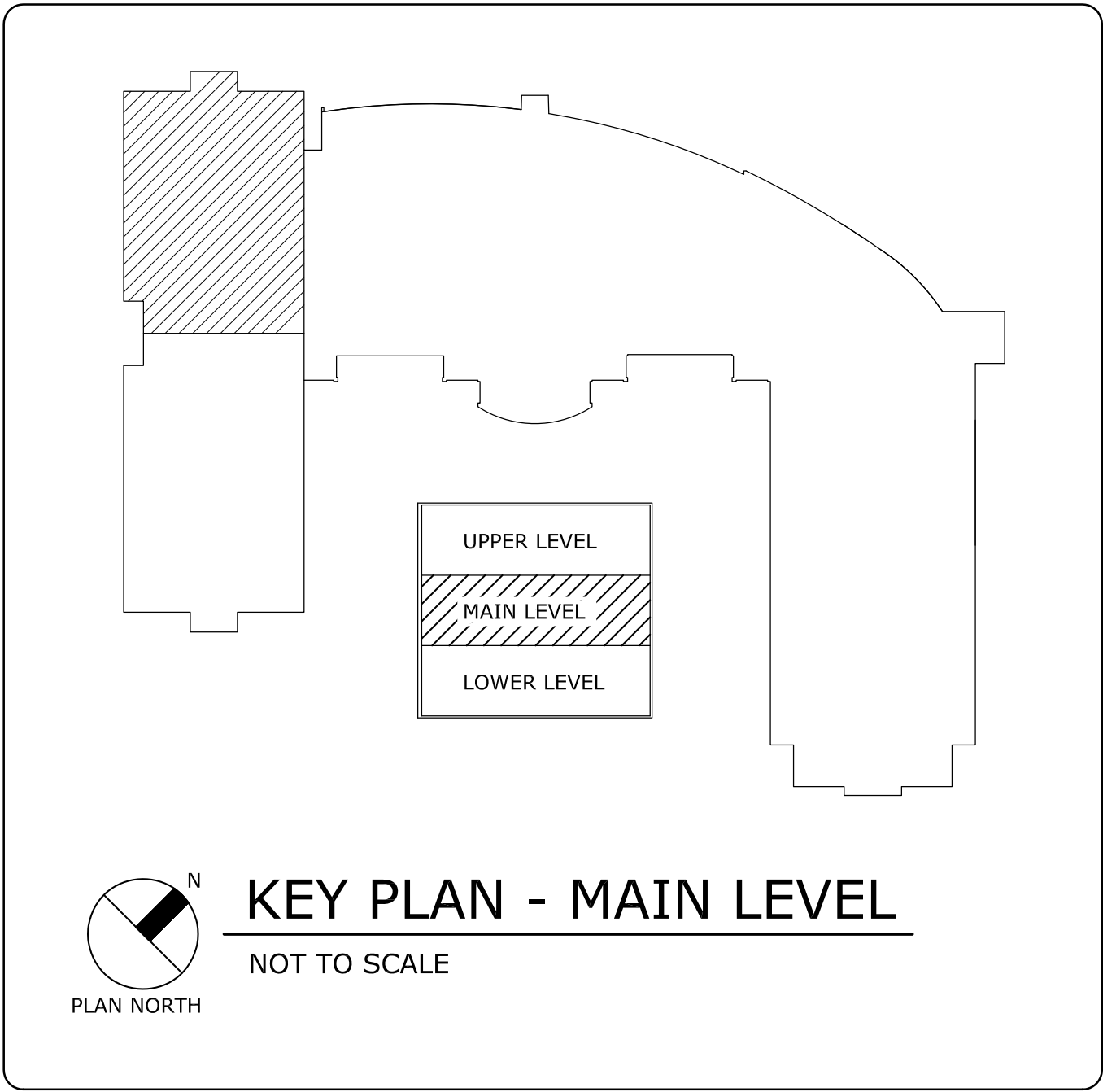
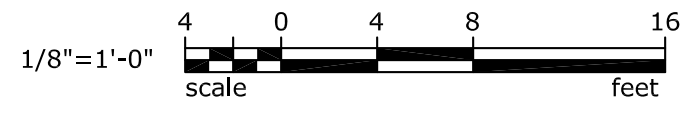


REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
01	02/10/16		JSJ	JM

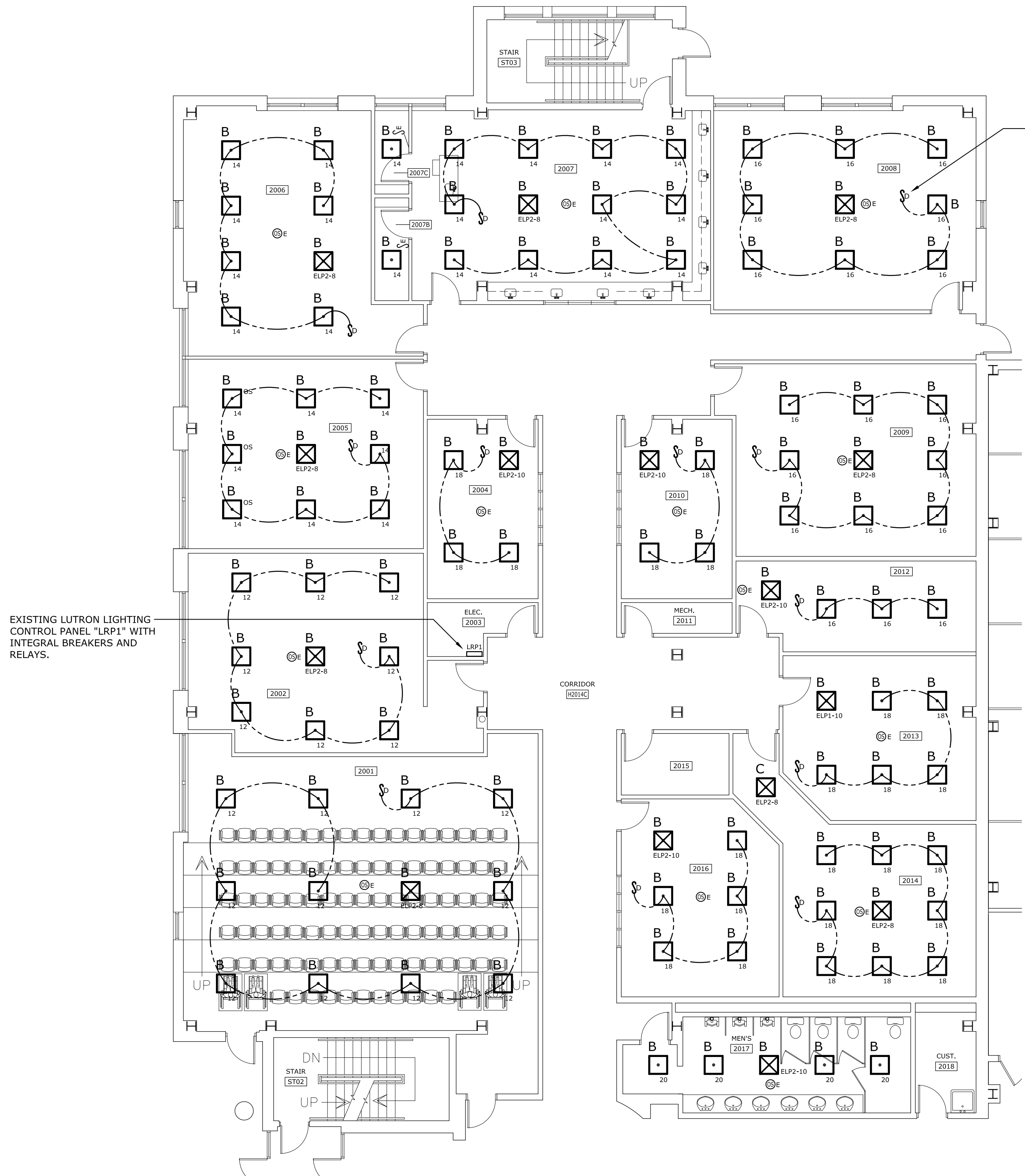
State Project No. H34-1669

LIGHTING NOTES

- ALL LIGHTING CIRCUITS INDICATED ON THIS PLAN ARE SERVED FROM PANEL "LRP1" UNLESS NOTED OTHERWISE.
SEE DRAWING E-3A FOR LOCATION OF PANEL "ELP2".
- CIRCUIT NUMBERS SHOWN ON PLAN WERE COPIED FROM ORIGINAL BUILDING CONSTRUCTION DRAWINGS - FIELD VERIFY SOURCE OF CIRCUITS PRIOR TO WORKING ON EXISTING CIRCUIT WIRING.



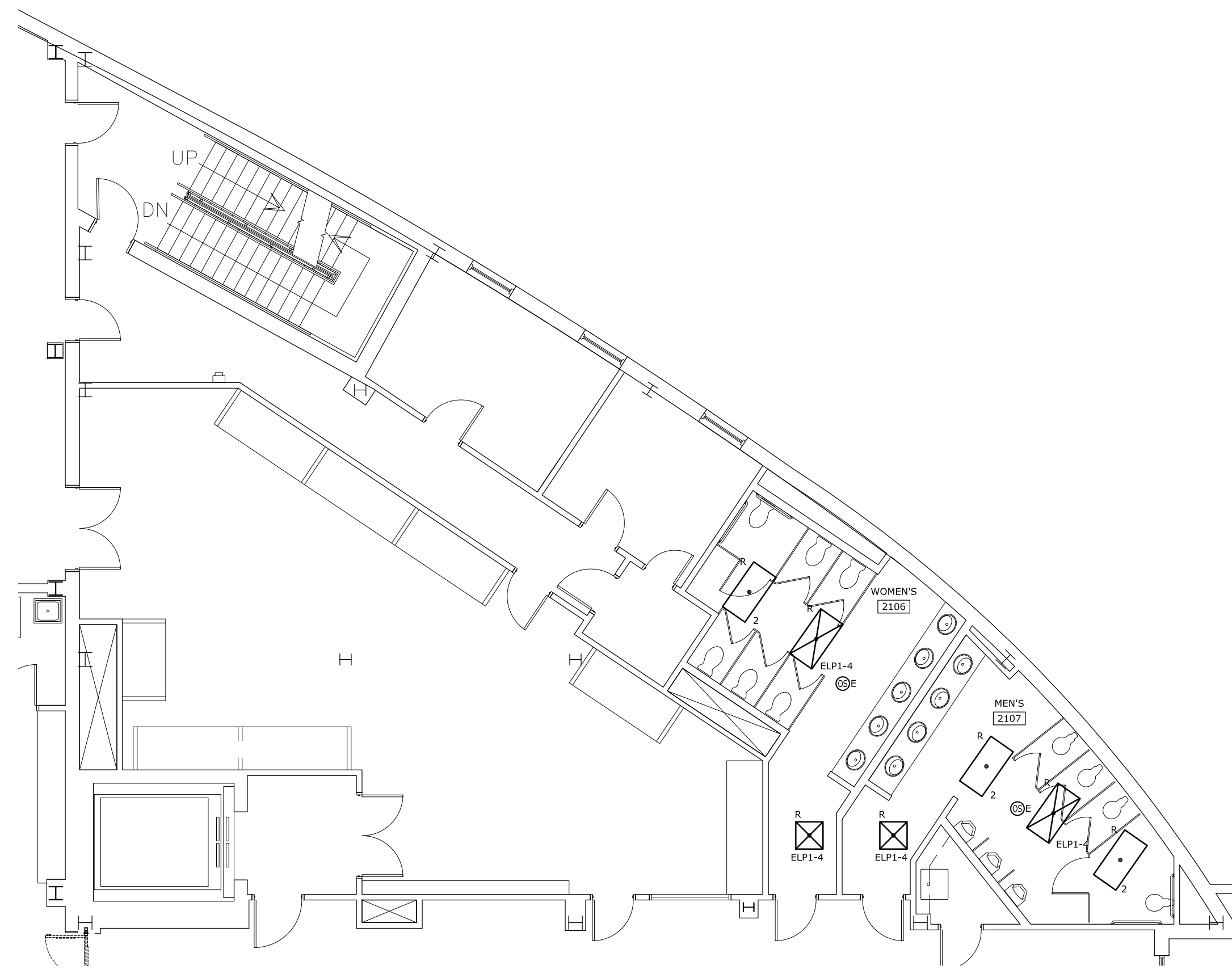
1 MAIN LEVEL LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



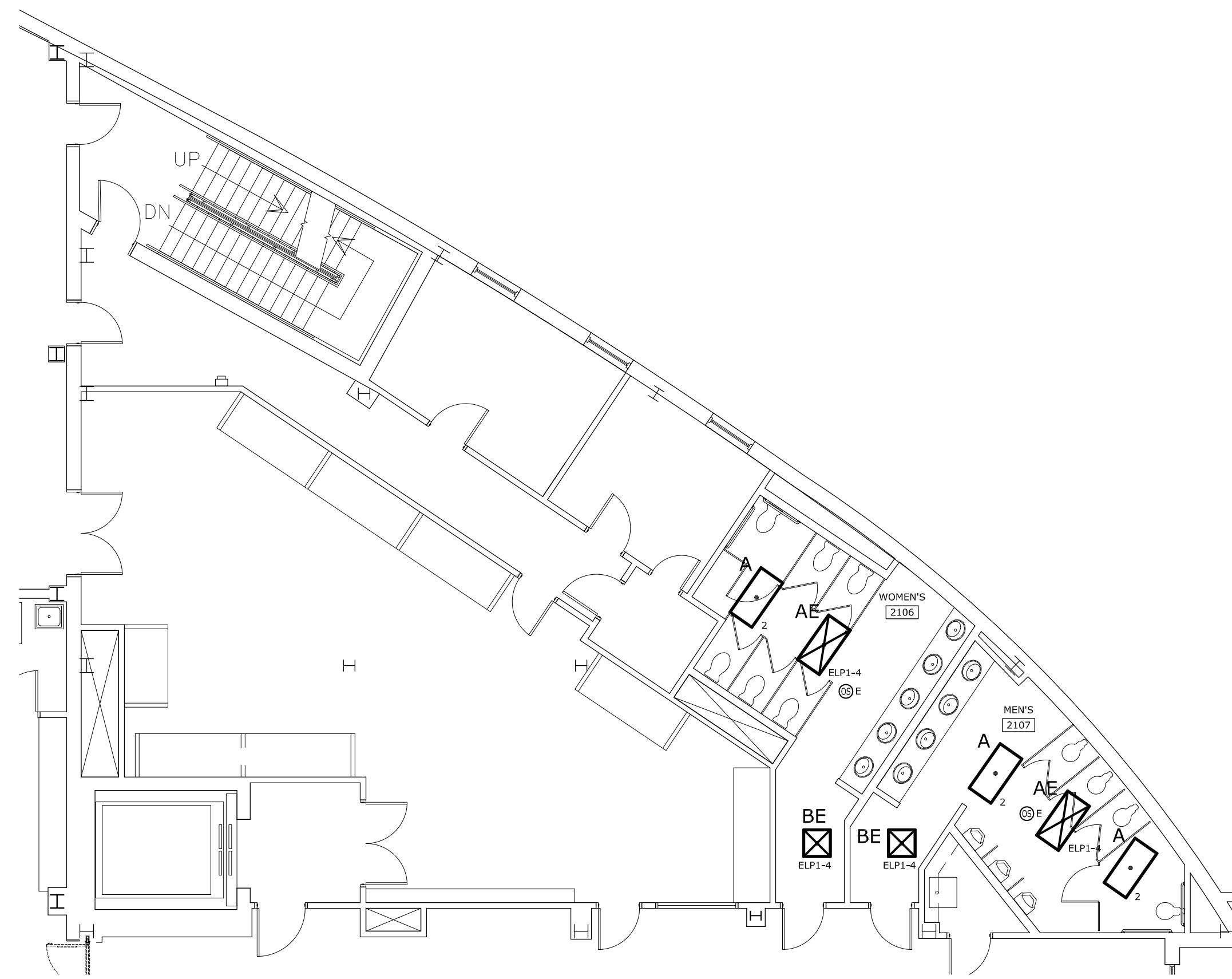
2 MAIN LEVEL LIGHTING RENOVATION PLAN
SCALE: 1/8" = 1'-0"

REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
01	08/11/15	ISSUE FOR PERMIT	AM	AM
02	08/11/15	ISSUE FOR PERMIT	AM	AM
03	08/11/15	ISSUE FOR PERMIT	AM	AM
04	08/11/15	ISSUE FOR PERMIT	AM	AM
05	08/11/15	ISSUE FOR PERMIT	AM	AM
06	08/11/15	ISSUE FOR PERMIT	AM	AM
07	08/11/15	ISSUE FOR PERMIT	AM	AM
08	08/11/15	ISSUE FOR PERMIT	AM	AM
09	08/11/15	ISSUE FOR PERMIT	AM	AM
10	08/11/15	ISSUE FOR PERMIT	AM	AM
11	08/11/15	ISSUE FOR PERMIT	AM	AM
12	08/11/15	ISSUE FOR PERMIT	AM	AM
13	08/11/15	ISSUE FOR PERMIT	AM	AM
14	08/11/15	ISSUE FOR PERMIT	AM	AM
15	08/11/15	ISSUE FOR PERMIT	AM	AM
16	08/11/15	ISSUE FOR PERMIT	AM	AM
17	08/11/15	ISSUE FOR PERMIT	AM	AM
18	08/11/15	ISSUE FOR PERMIT	AM	AM
19	08/11/15	ISSUE FOR PERMIT	AM	AM
20	08/11/15	ISSUE FOR PERMIT	AM	AM
21	08/11/15	ISSUE FOR PERMIT	AM	AM
22	08/11/15	ISSUE FOR PERMIT	AM	AM
23	08/11/15	ISSUE FOR PERMIT	AM	AM
24	08/11/15	ISSUE FOR PERMIT	AM	AM
25	08/11/15	ISSUE FOR PERMIT	AM	AM
26	08/11/15	ISSUE FOR PERMIT	AM	AM
27	08/11/15	ISSUE FOR PERMIT	AM	AM
28	08/11/15	ISSUE FOR PERMIT	AM	AM
29	08/11/15	ISSUE FOR PERMIT	AM	AM
30	08/11/15	ISSUE FOR PERMIT	AM	AM
31	08/11/15	ISSUE FOR PERMIT	AM	AM
32	08/11/15	ISSUE FOR PERMIT	AM	AM
33	08/11/15	ISSUE FOR PERMIT	AM	AM
34	08/11/15	ISSUE FOR PERMIT	AM	AM
35	08/11/15	ISSUE FOR PERMIT	AM	AM
36	08/11/15	ISSUE FOR PERMIT	AM	AM
37	08/11/15	ISSUE FOR PERMIT	AM	AM
38	08/11/15	ISSUE FOR PERMIT	AM	AM
39	08/11/15	ISSUE FOR PERMIT	AM	AM
40	08/11/15	ISSUE FOR PERMIT	AM	AM
41	08/11/15	ISSUE FOR PERMIT	AM	AM
42	08/11/15	ISSUE FOR PERMIT	AM	AM
43	08/11/15	ISSUE FOR PERMIT	AM	AM
44	08/11/15	ISSUE FOR PERMIT	AM	AM
45	08/11/15	ISSUE FOR PERMIT	AM	AM
46	08/11/15	ISSUE FOR PERMIT	AM	AM
47	08/11/15	ISSUE FOR PERMIT	AM	AM
48	08/11/15	ISSUE FOR PERMIT	AM	AM
49	08/11/15	ISSUE FOR PERMIT	AM	AM
50	08/11/15	ISSUE FOR PERMIT	AM	AM

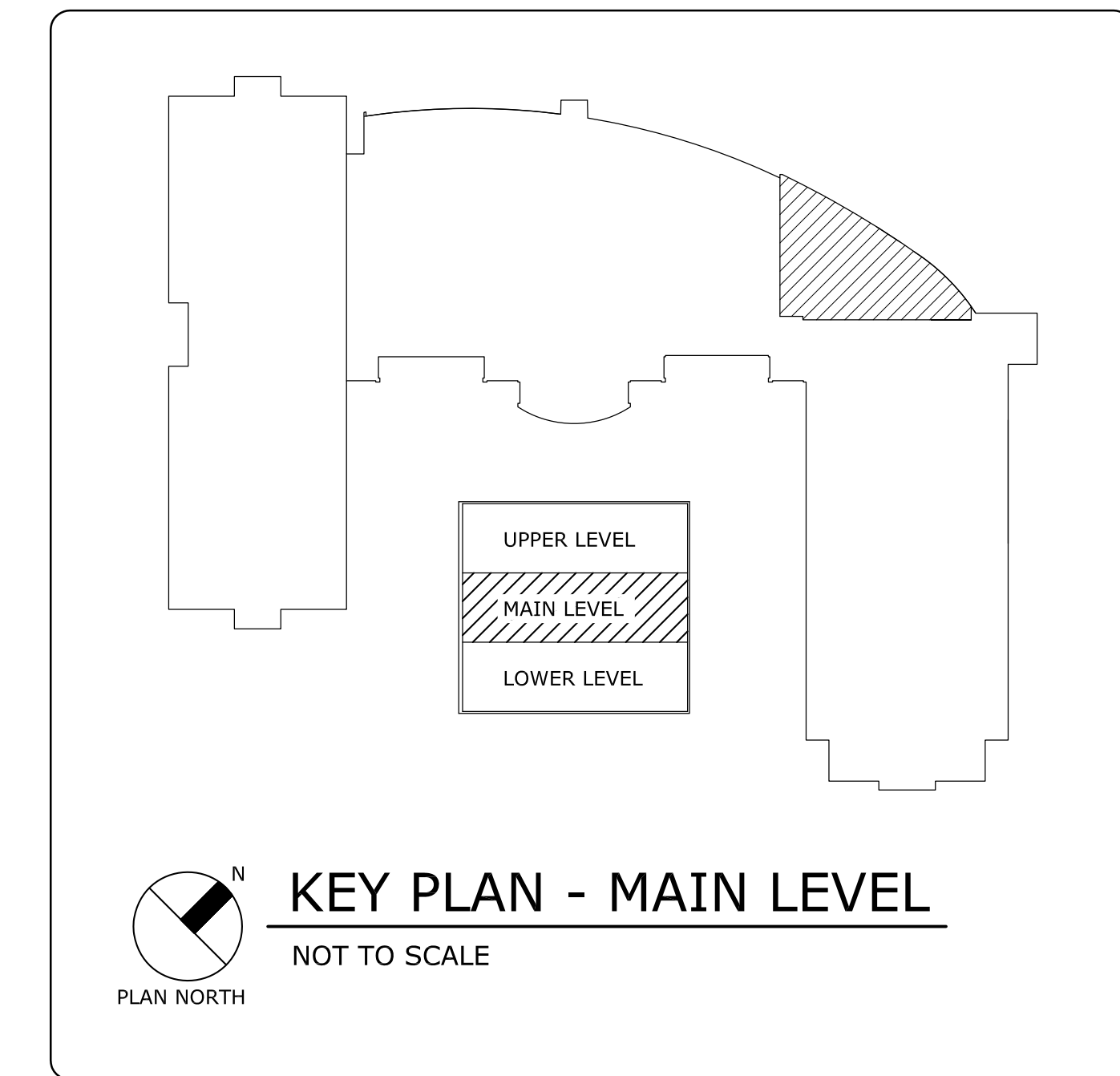
State Project No. H34-1669



1 MAIN LEVEL LIGHTING DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

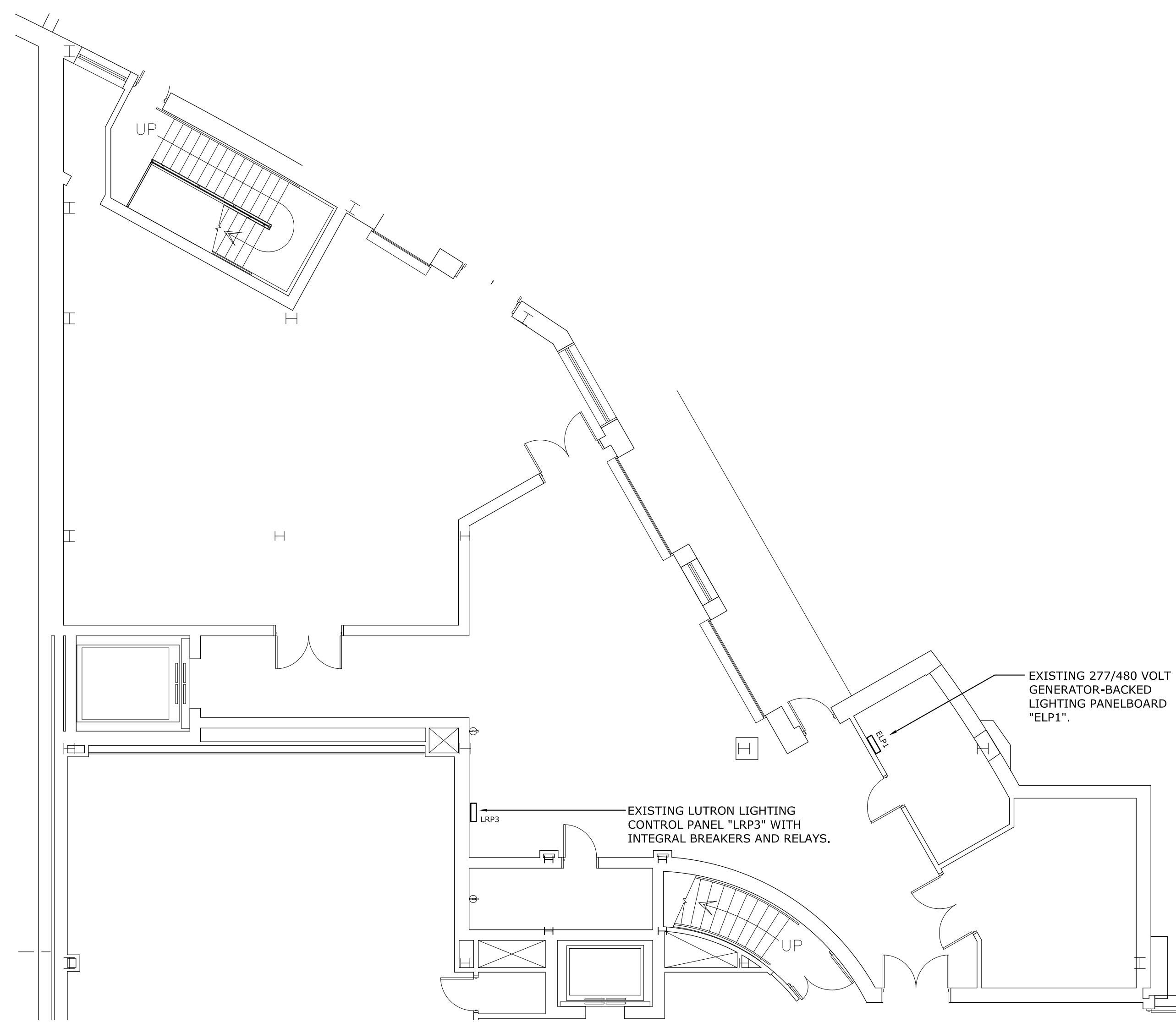


2 MAIN LEVEL LIGHTING RENOVATION PLAN
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

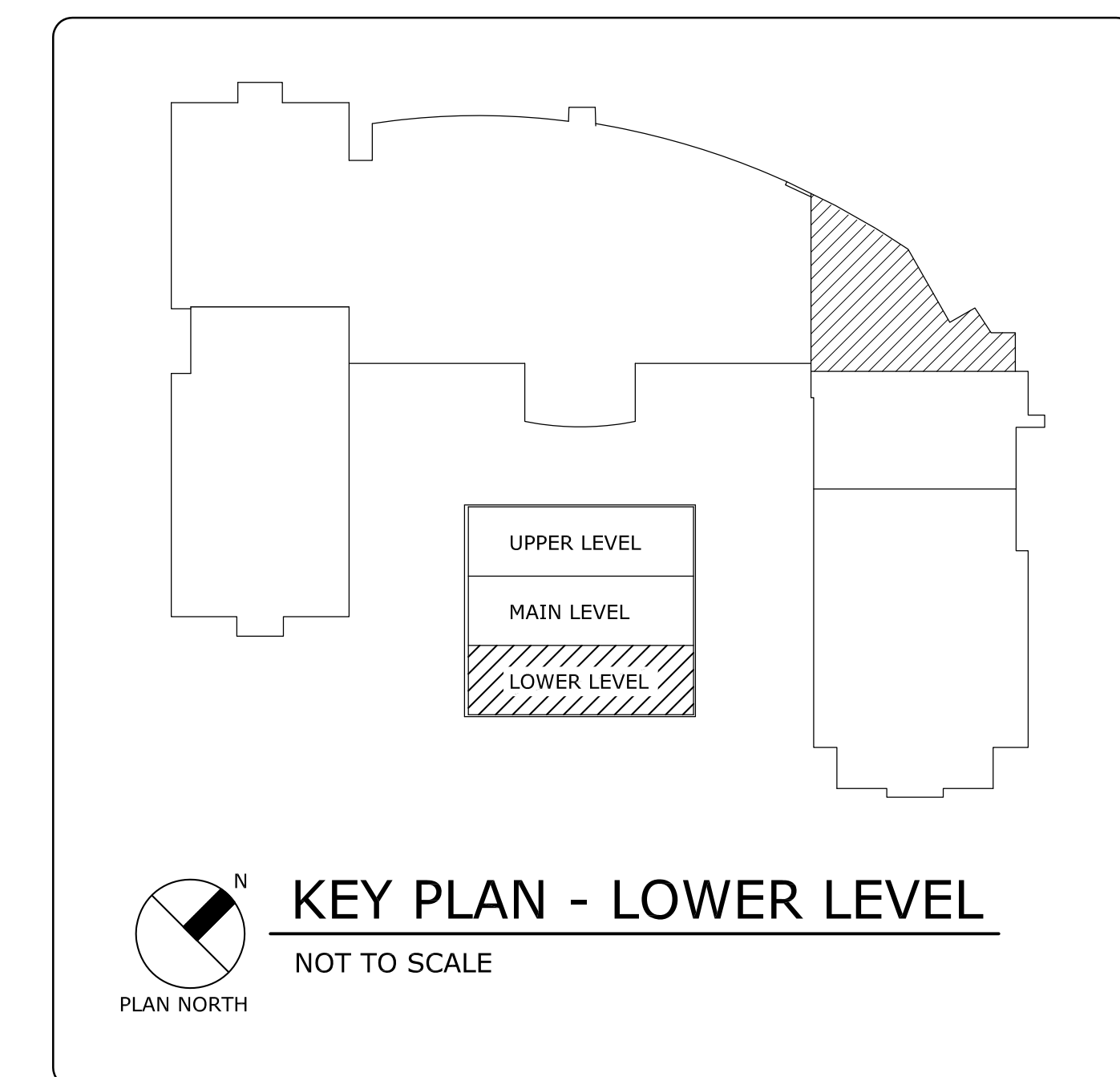


LIGHTING NOTES

1. ALL LIGHTING CIRCUITS INDICATED ON THESE PLANS ARE SERVED FROM PANEL "LRP3" UNLESS NOTED OTHERWISE. SEE PLAN TO RIGHT FOR LOCATIONS OF PANELBOARDS ON THE LOWER LEVEL THAT SERVE LIGHTING FIXTURES ON THE MAIN LEVEL.
2. CIRCUIT NUMBERS SHOWN ON PLAN WERE COPIED FROM ORIGINAL BUILDING CONSTRUCTION DRAWINGS - FIELD VERIFY SOURCE OF CIRCUITS PRIOR TO WORKING ON EXISTING CIRCUIT WIRING.



3 LOWER LEVEL - PANELBOARD LOCATIONS
 SCALE: 1/8" = 1'-0"
 PLAN NORTH

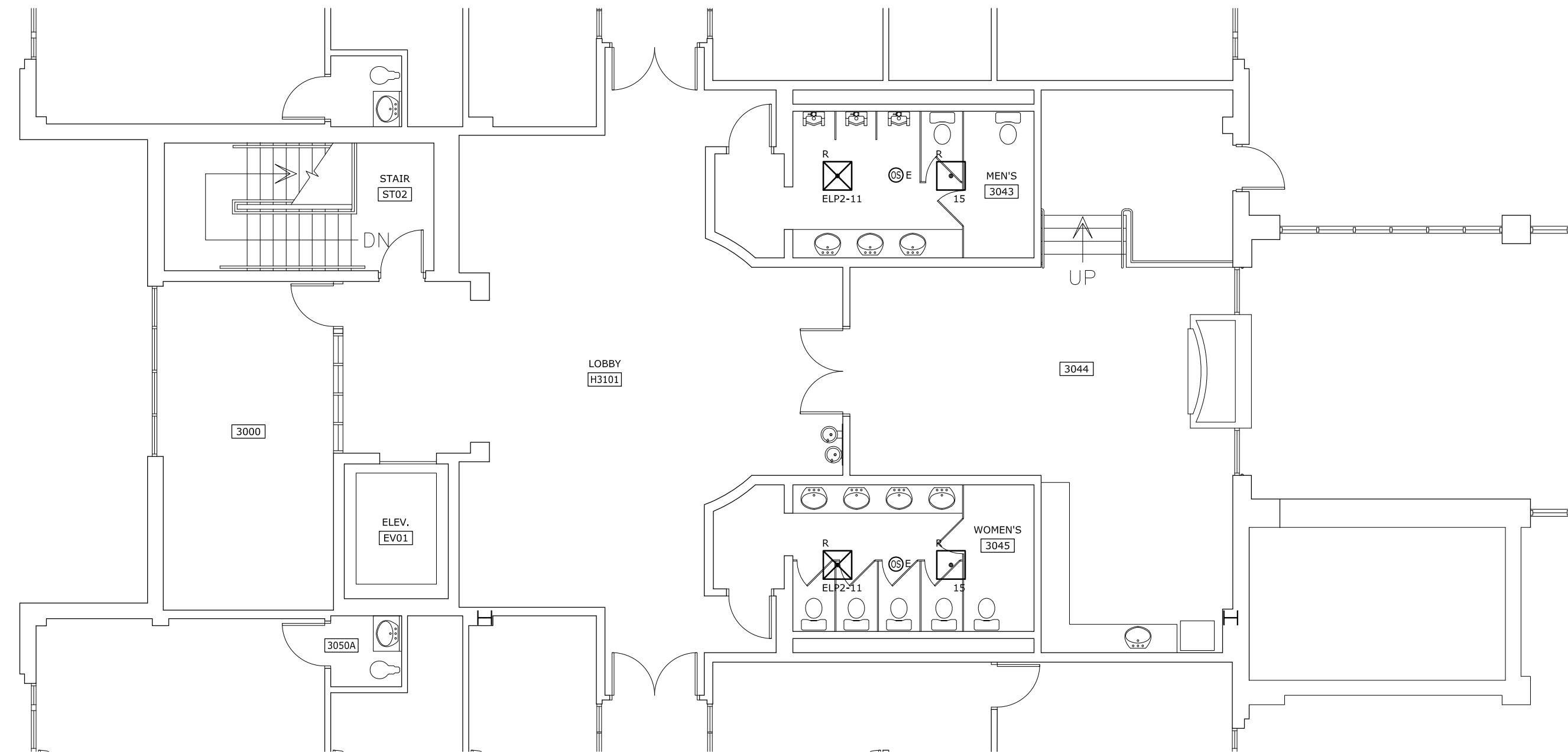
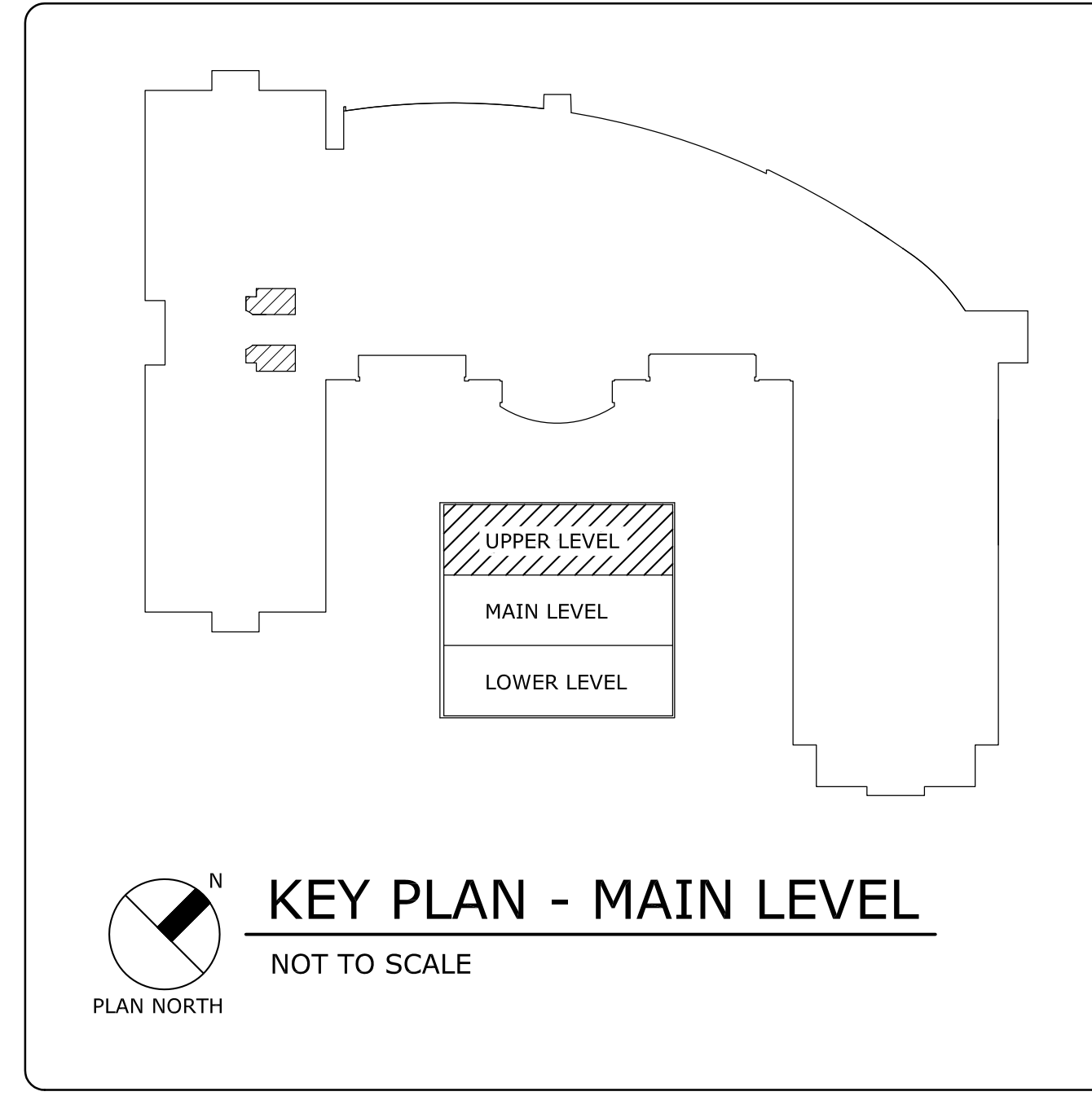


REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

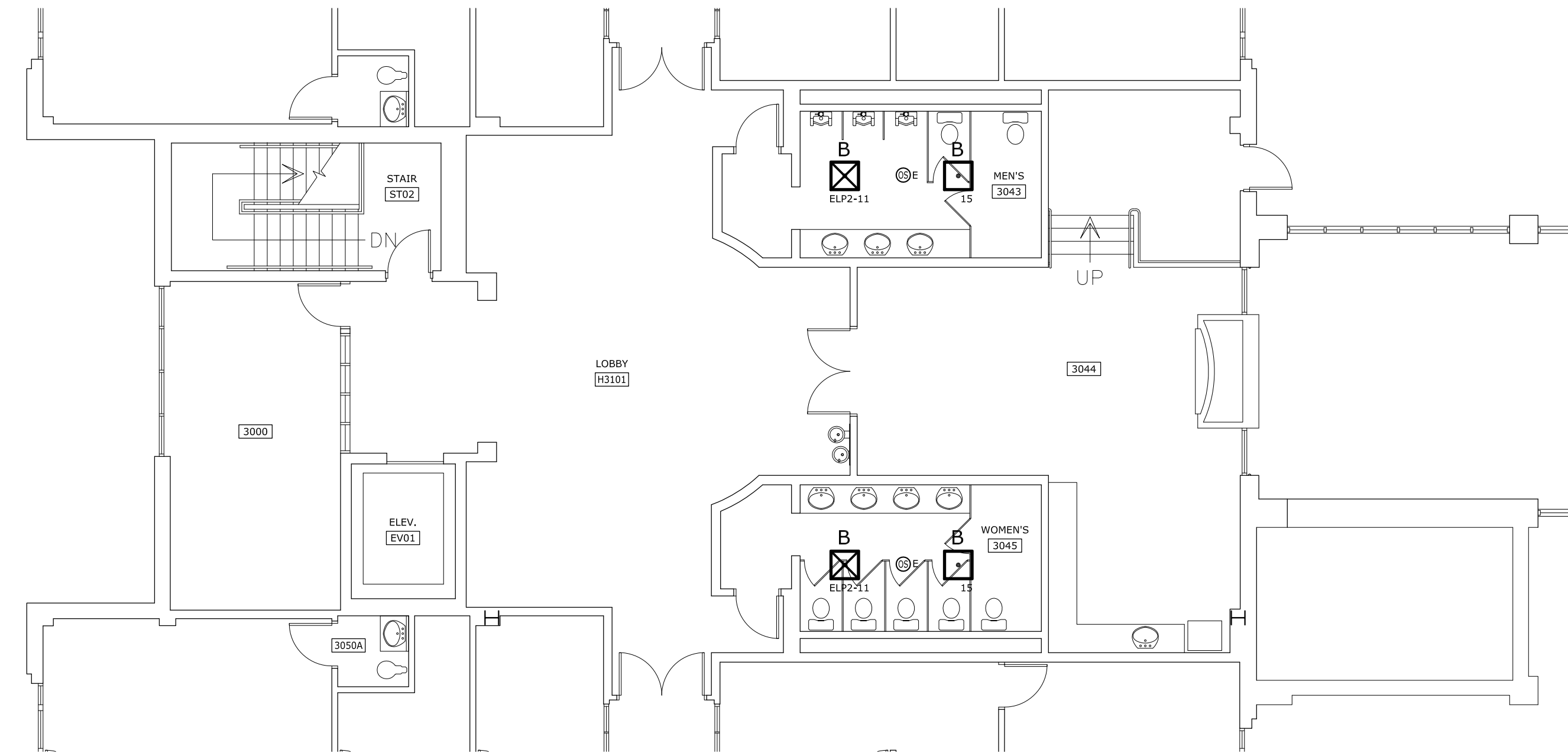
State Project No. H34-1669

LIGHTING NOTES

1. ALL LIGHTING CIRCUITS INDICATED ON THIS PLAN ARE SERVED FROM PANEL "LRP1" UNLESS NOTED OTHERWISE.
SEE DRAWING E-3A FOR LOCATION OF PANEL "ELP2".
SEE DRAWING E-3B FOR LOCATION OF PANEL "LRP1".
2. CIRCUIT NUMBERS SHOWN ON PLAN WERE COPIED FROM ORIGINAL BUILDING CONSTRUCTION DRAWINGS - FIELD VERIFY SOURCE OF CIRCUITS PRIOR TO WORKING ON EXISTING CIRCUIT WIRING.



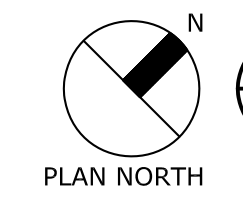
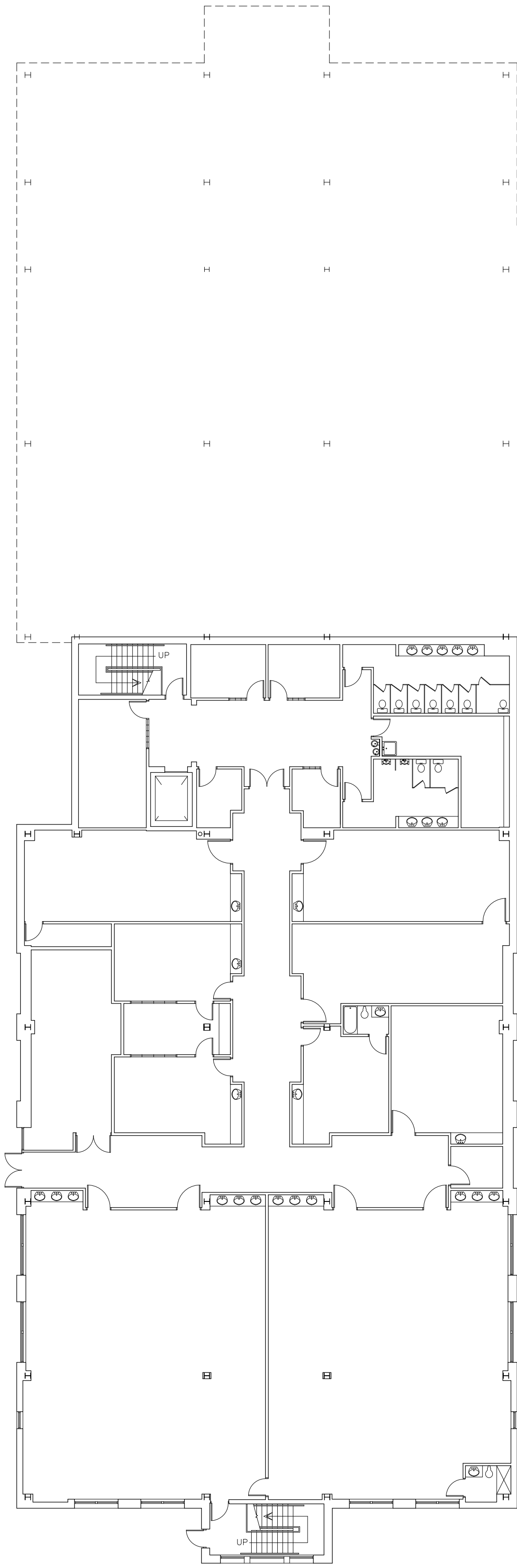
1 UPPER LEVEL LIGHTING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



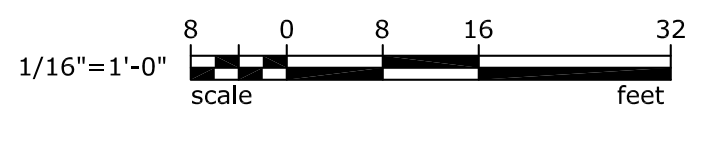
2 UPPER LEVEL LIGHTING RENOVATION PLAN
SCALE: 1/8" = 1'-0"

REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
01	08/28/15		JSJ	JM

State Project No. H34-1869

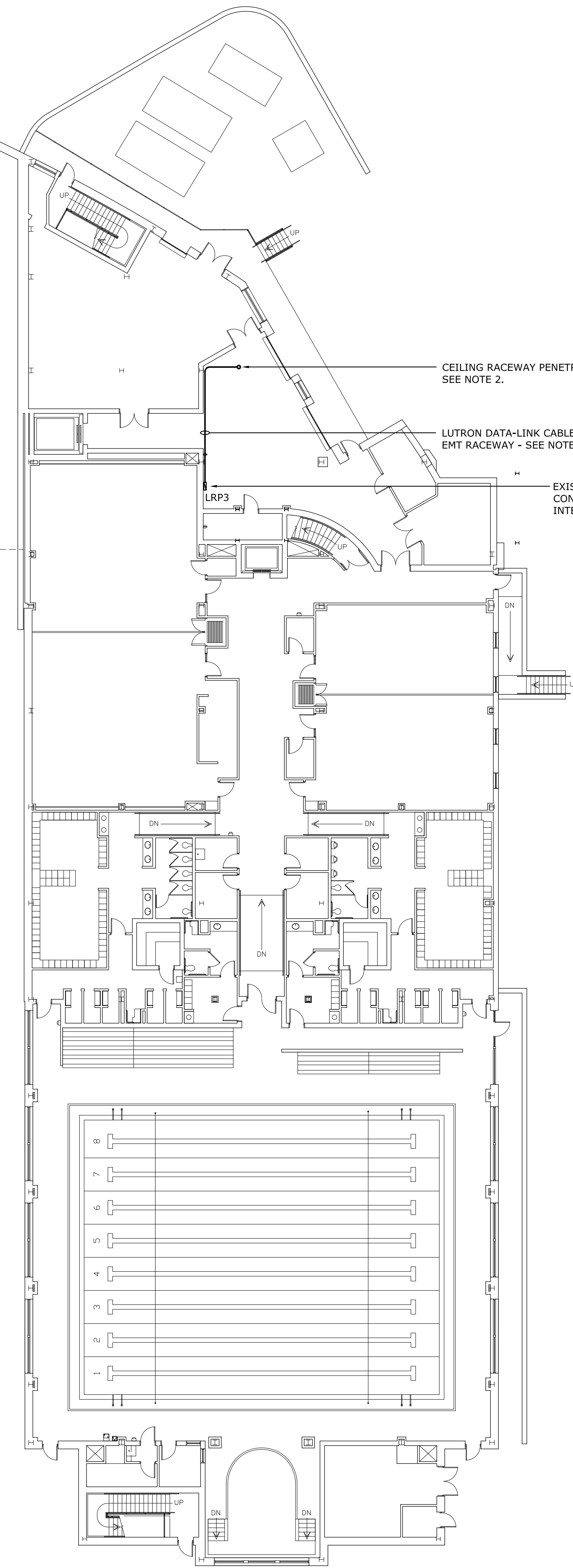


1 LOWER LEVEL RENOVATION PLAN - LUTRON
SCALE: 1/16" = 1'-0"



PLAN NOTES

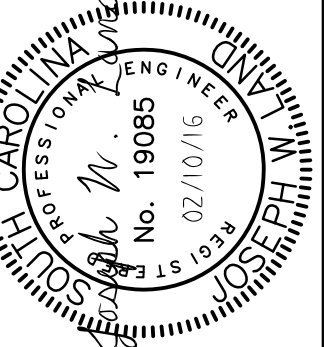
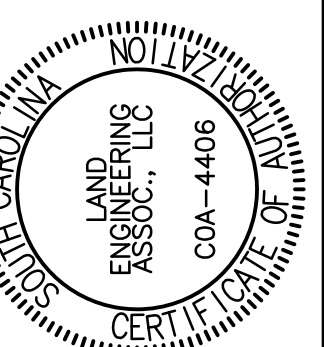
1. THE LUTRON SYSTEM SINGLE-LINE DIAGRAM SHOWN ON DRAWING E-1 IS ASSOCIATED WITH THIS DRAWING.
2. CIRCLE REFERENCE TO THIS NOTE IS THE APPROXIMATE LOCATION OF CORE DRILL ON FLOOR ABOVE FOR RACEWAY PENETRATION. VERIFY THAT LOCATION IS UNOBSTRUCTED BY EXISTING EQUIPMENT, DUCTS, AND PIPING PRIOR TO CORE DRILLING.



State Project No. H34-1869

OFFICE OF
FACILITIES MANAGEMENT
COLUMBIA, SC 29208

LEA
LAND
ENGINEERING
ASSOCIATES, LLC
262 SANDHURST ROAD, SUITE 101
COLUMBIA, SOUTH CAROLINA
(803) 528-1437
Joe.Land.LEA@scrr.com



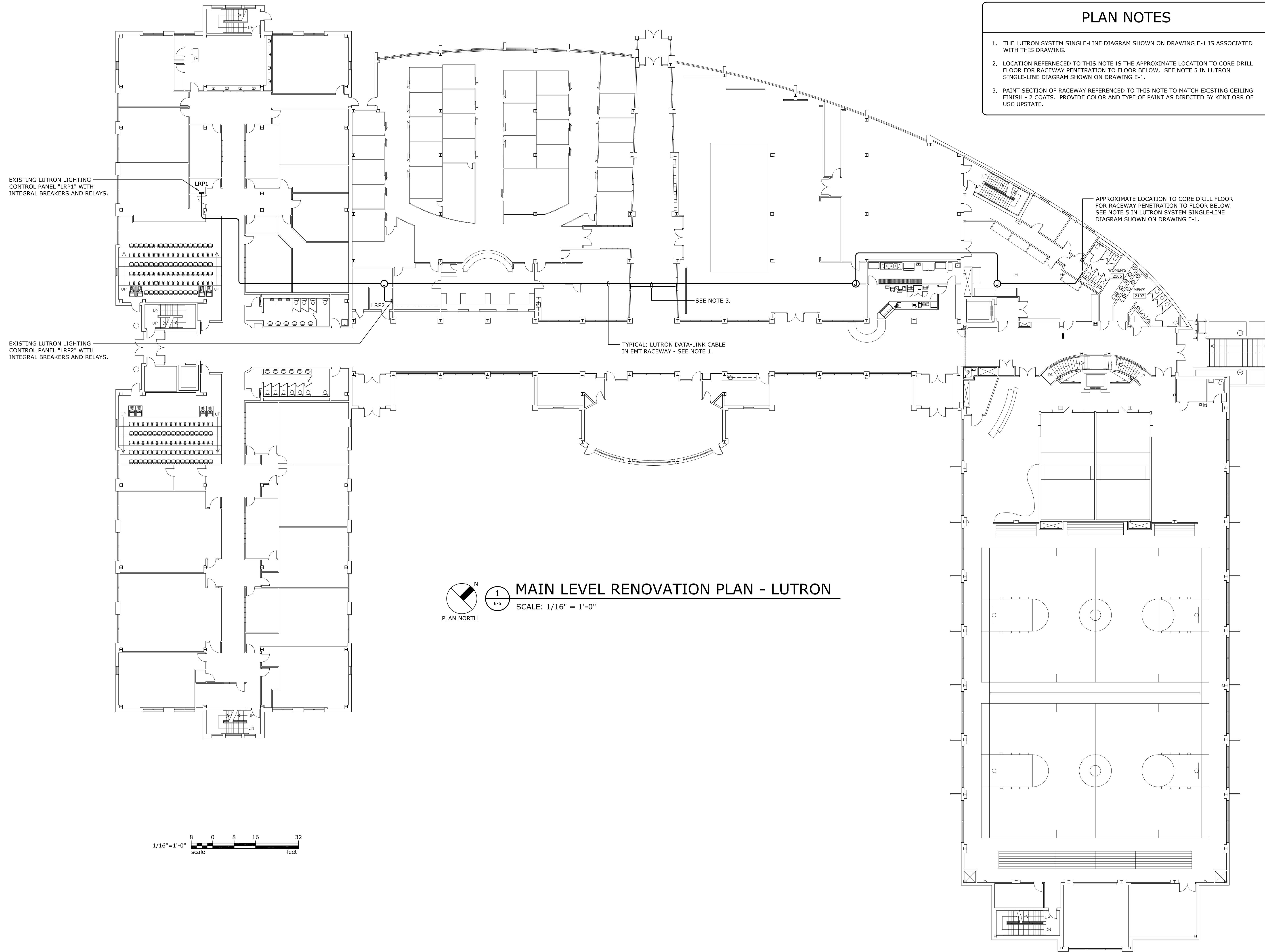
REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY

REPLACE LIGHTING HEC CLASSROOMS
University of South Carolina



E-5
8 OF 10

8 OF 10



- PLAN NOTES**
1. THE LUTRON SYSTEM SINGLE-LINE DIAGRAM SHOWN ON DRAWING E-1 IS ASSOCIATED WITH THIS DRAWING.
 2. LOCATION REFERENCED TO THIS NOTE IS THE APPROXIMATE LOCATION TO CORE DRILL FLOOR FOR RACEWAY PENETRATION TO FLOOR BELOW. SEE NOTE 5 IN LUTRON SINGLE-LINE DIAGRAM SHOWN ON DRAWING E-1.
 3. PAINT SECTION OF RACEWAY REFERENCED TO THIS NOTE TO MATCH EXISTING CEILING FINISH - 2 COATS. PROVIDE COLOR AND TYPE OF PAINT AS DIRECTED BY KENT ORR OF USC UPSTATE.

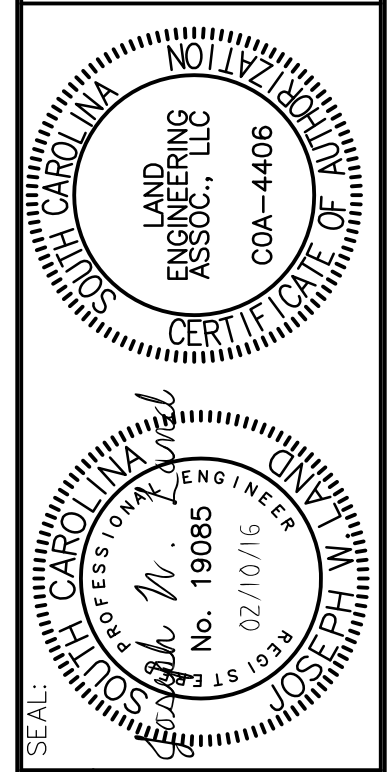
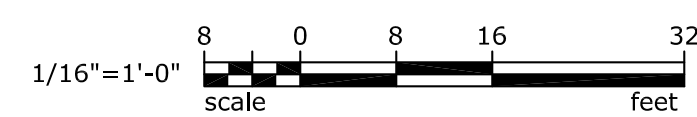
EXISTING LUTRON LIGHTING CONTROL PANEL "LRP1" WITH INTEGRAL BREAKERS AND RELAYS.

EXISTING LUTRON LIGHTING CONTROL PANEL "LRP2" WITH INTEGRAL BREAKERS AND RELAYS.

TYPICAL: LUTRON DATA-LINK CABLE IN EMT RACEWAY - SEE NOTE 1.

APPROXIMATE LOCATION TO CORE DRILL FLOOR FOR RACEWAY PENETRATION TO FLOOR BELOW. SEE NOTE 5 IN LUTRON SYSTEM SINGLE-LINE DIAGRAM SHOWN ON DRAWING E-1.

1 MAIN LEVEL RENOVATION PLAN - LUTRON
SCALE: 1/16" = 1'-0"



REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
01	02/10/16		JSJ	JM