



**UNIVERSITY OF NEVADA LAS VEGAS** 

**LIED LIBRARY FLOORING RENOVATION** 

4505 S Maryland Parkway, Las Vegas, Nevada, 89154,

**REVISIONS** 

File: 007111007 UNLV AMENDMENT 6D.pln

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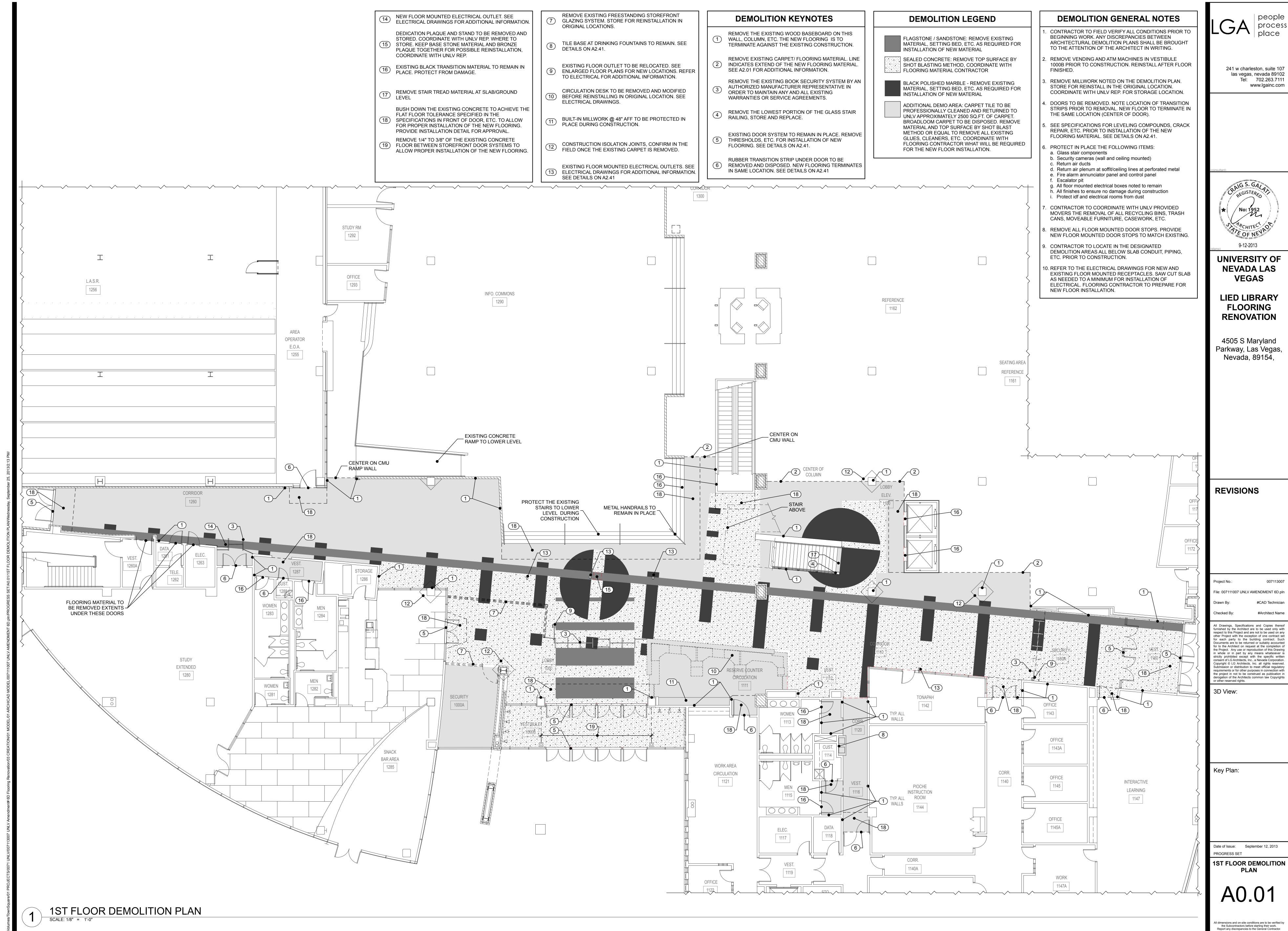
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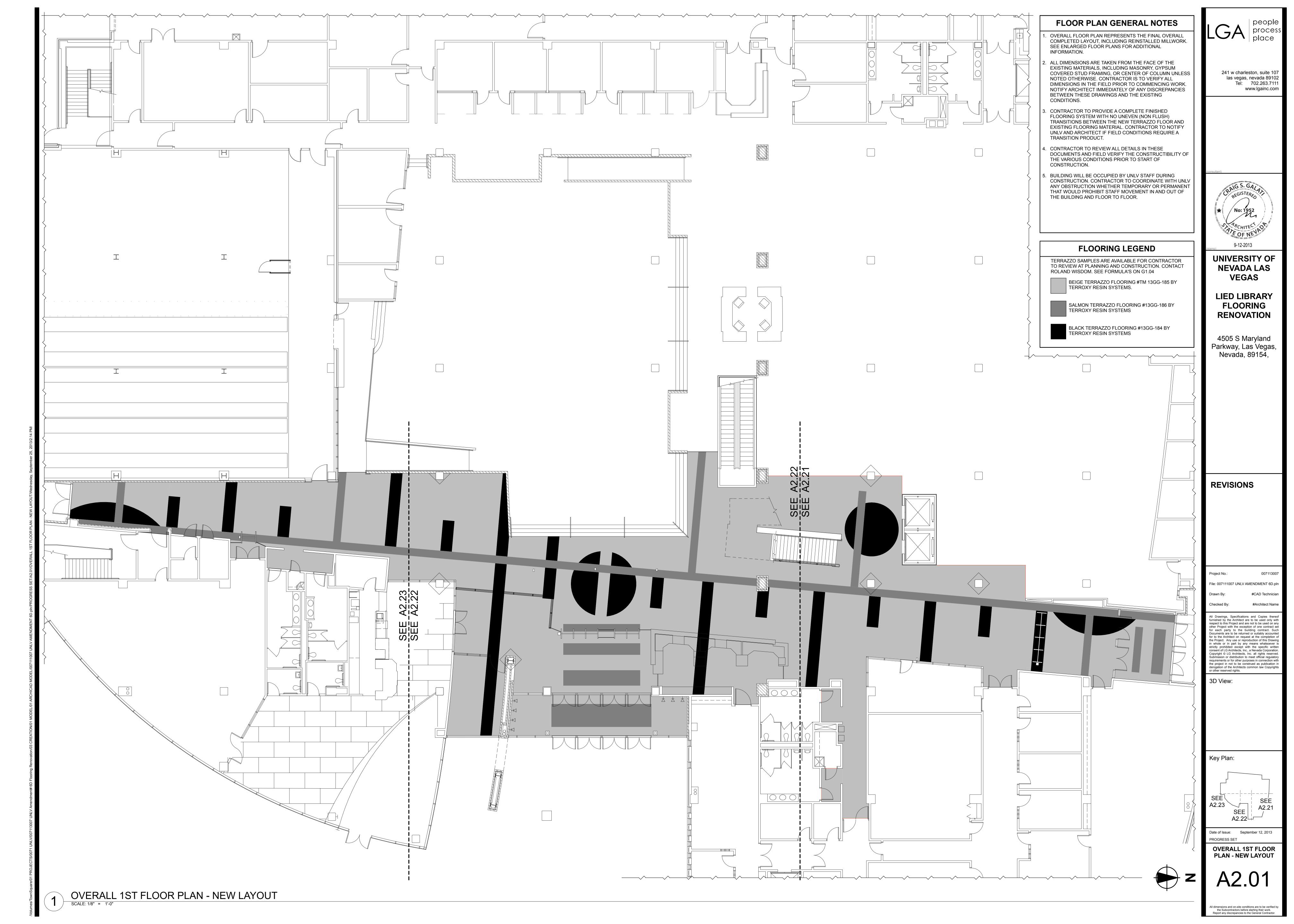
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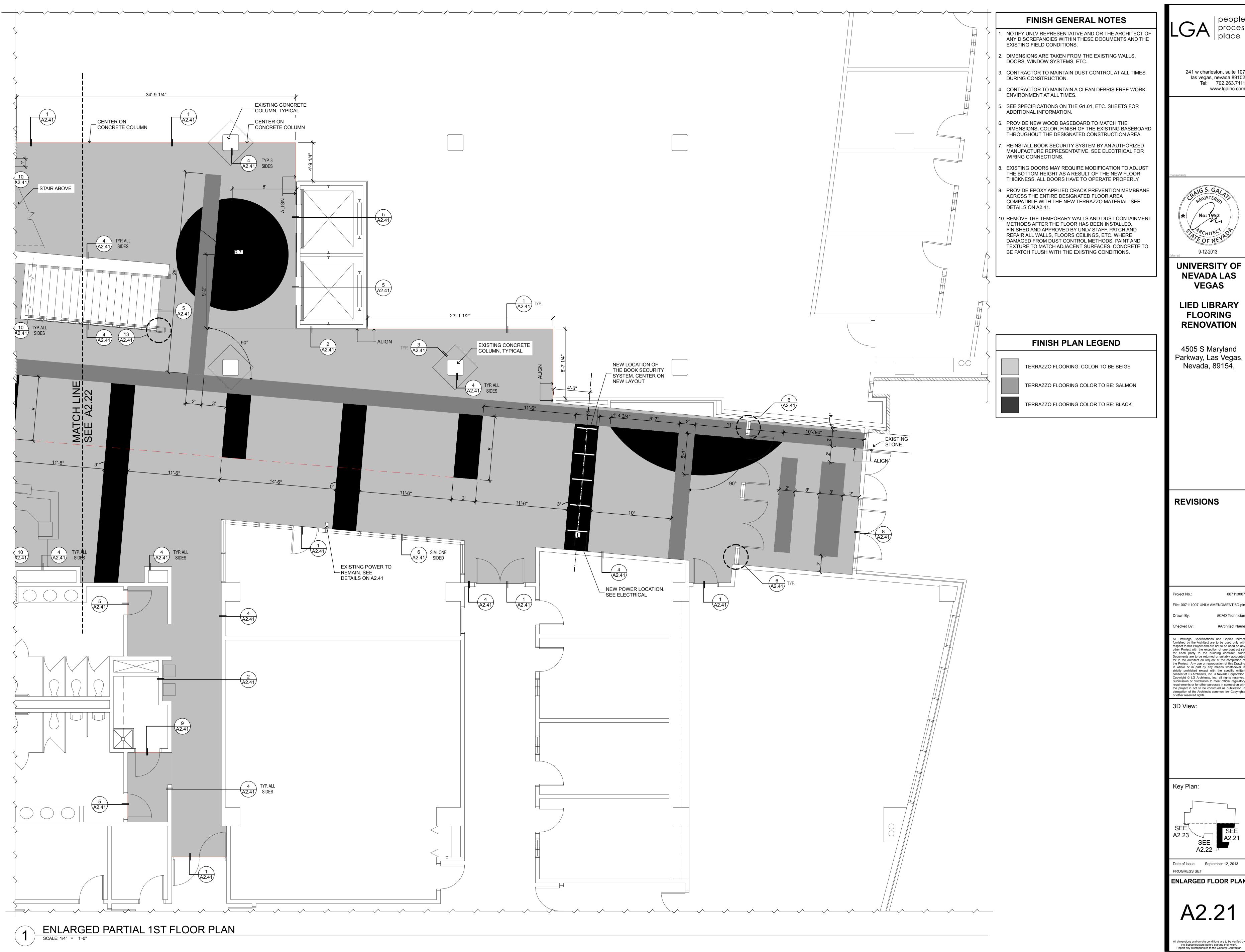
CONSTRUCTION

CONTAINMENT

Il dimensions and on-site conditions are to be verified by the Subcontractors before starting their work. Report any discrepancies to the General Contractor.







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9-12-2013

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3D View:

**ENLARGED FLOOR PLAN** 

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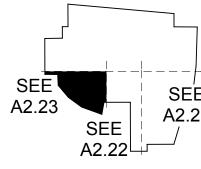
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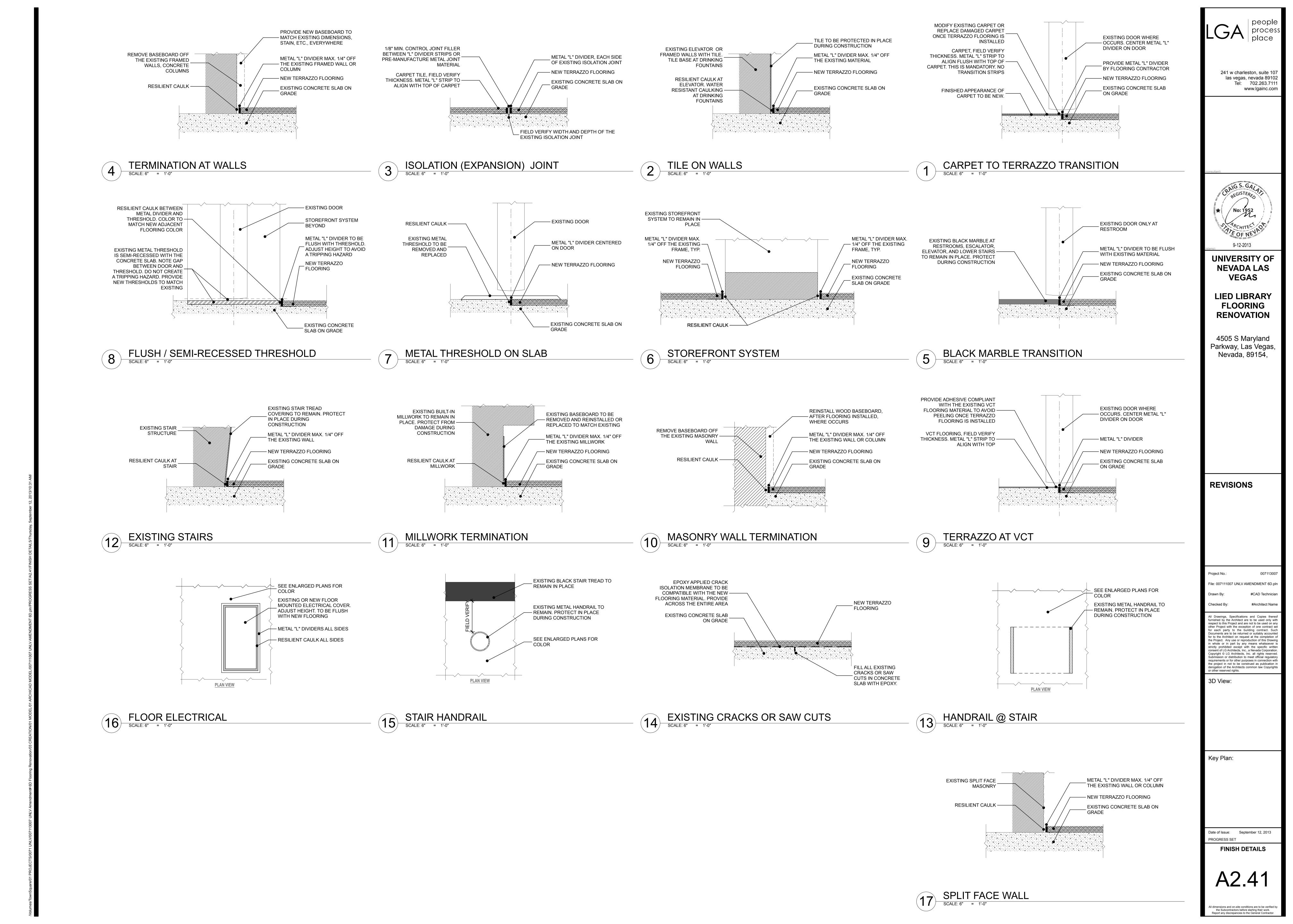
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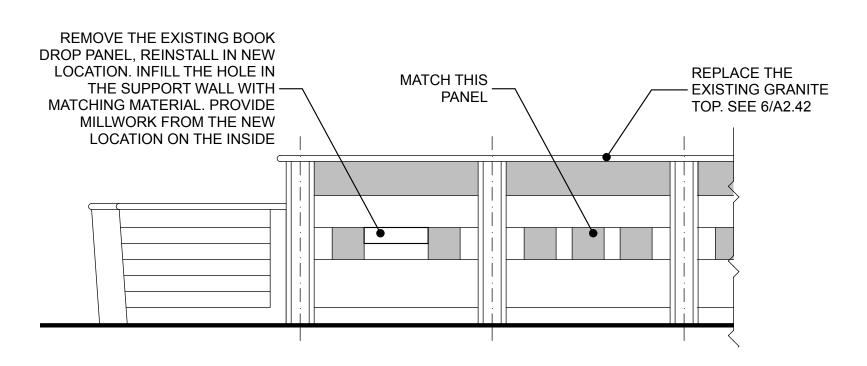


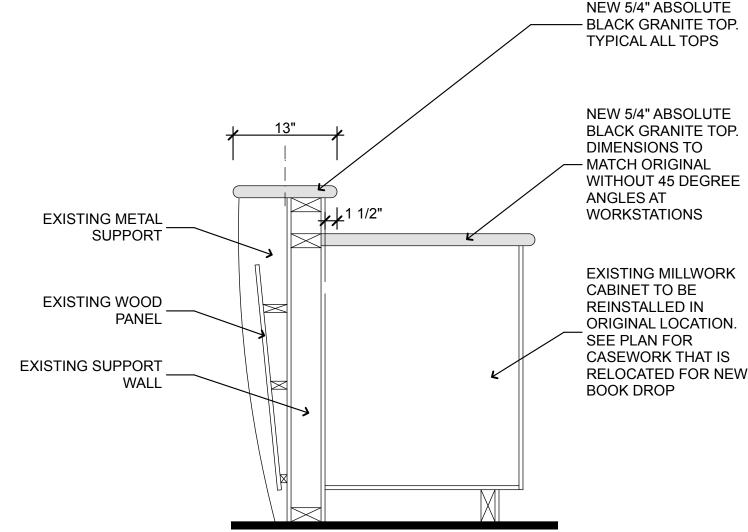
**ENLARGED FLOOR PLAN** 

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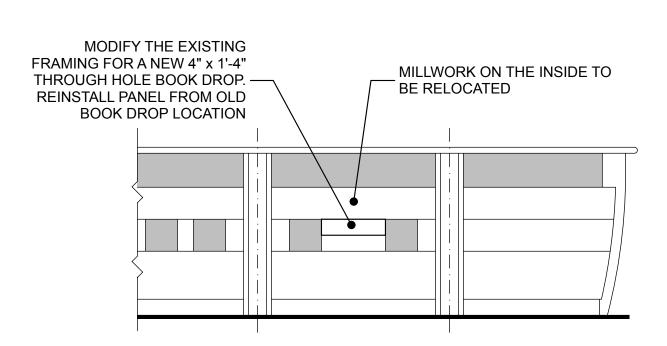
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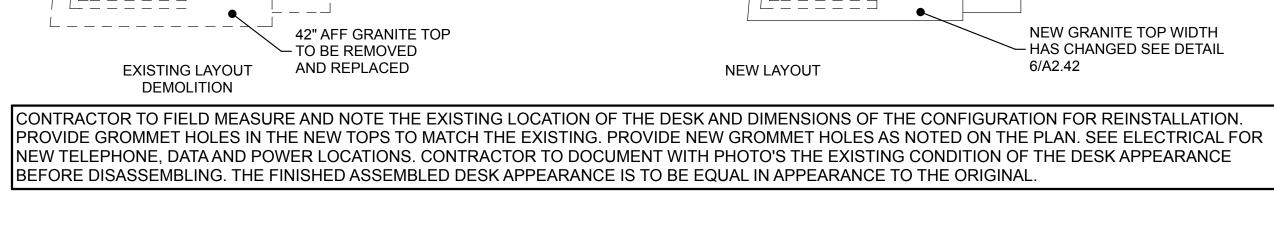




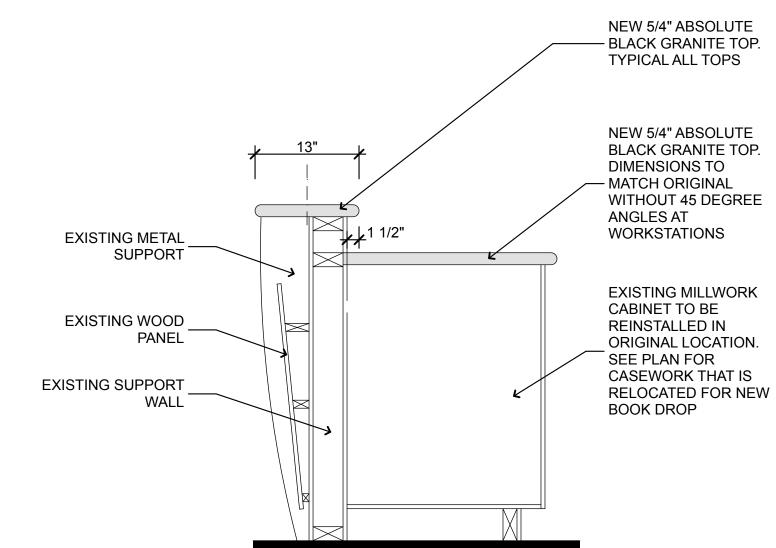
EXISTING BOOK DROP SCALE: 1/2" = 1'-0"



NEW TELEPHONE, DATA AND POWER LOCATIONS. CONTRACTOR TO DOCUMENT WITH PHOTO'S THE EXISTING CONDITION OF THE DESK APPEARANCE BEFORE DISASSEMBLING. THE FINISHED ASSEMBLED DESK APPEARANCE IS TO BE EQUAL IN APPEARANCE TO THE ORIGINAL.



CIRCULATION DESK FLOOR PLAN



CIRCULATION DESK MILLWORK SECTION

SCALE: 1" = 1'-0"

MILLWORK TO BE PROVIDE PROPER SUPPORT FOR STORED FOR - THE NEW TOP IN THE OLD - REINSTALLATION. LOWER LOWER TOP LOCATION PORTION OF TOP TO BE REMOVED ENTIRELY NEW GRANITE TOP. HEIGHT TO MATCH ORIGINAL HEIGHT 30" AFF GRANITE TOP TO **EXISTING BOOK** – BE REMOVED AND RELOCATED MILLWORK AT OLD DROP LOCATION -REPLACED - BOOK DROP LOCATION FROM NEW BOOK DROP LOCATION MILLWORK TO BE /- STORED FOR REINSTALLATION NEW GRANITE TOP. HEIGHT TO MATCH ORIGINAL HEIGHT NEW GROMMET HOLES IN TOP. COORDINATE LOCATION WITH MILLWORK FRAMING LIBRARY STAFF AND MILLWORK MEMBERS, ETC. ARE TO BELOW BE STORED FOR REINSTALLATION NEW GRANITE TOP. HEIGHT TO MILLWORK TO BE MATCH ORIGINAL HEIGHT. - STORED FOR REINSTALLATION 36" AFF GRANITE TOP TO NEW GROMMET HOLES IN TOP. ├─ BE REMOVED AND COORDINATE LOCATION WITH /<sup>⊥</sup> - - - - <sup>⊥</sup> REPLACED LIBRARY STAFF AND MILLWORK MILLWORK TO BE STORED FOR **NEW BOOK DROP** PROVIDE A 6" RADIUS AT INSIDE REINSTALLATION IN A LOCATION CORNERS, TYP. **NEW LOCATION** GROMMET HOLES IN TOP TO - MATCH THE EXISTING MILLWORK TO BE LOCATIONS — MODIFIED AND REINSTALLATION NEW GRANITE TOP WIDTH

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CIRCULATION DESK MILLWORK

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Report any discrepancies to the General Contractor.

	MIN INTERRUPTING RATING 22,000 RMS SYM AMPS LOCATION RM. 1117 NEMA 1												
E=EXISTING, F=FIXED EQUIPMENT, K=KTOHEN EQUIPMENT, L=LIGHTS, M#MECHANICAL EQUIPMENT, P=PANEL, R=RECEPTACLES													
MLO=WAIN LUGS ONLY, MOB=WAIN CIRCUIT BREAKER, N=NEW, RE=RELAY, SO=SPACE ONLY, SO=SPARE CIRCUIT, G=GFI BREAKER													
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ELECTRICAL SPECIFICATIONS SECTION 16000 PROJECT NUMBER 13101 EXISTING PANEL 1L10, 3 PH, 4 WIRE, 208Y/120 VOLTS 225 A MLO SURFACE MOUNTED PART 1 - GENERAL REQUIREMENTS: 1.1 Description A Scope: The electrical work consists of furnishing everything necessary for and incidental to the execution and completion of all electrical work indicated on the drawings and specified below including but not limited 1. Lighting fixtures as indicated and specified on the plans. 2. Electrical panels, controls service, disconnects, conduits, wiring, etc. for all outlets and equipment. 3. Telephone outlets and conduit as indicated. 4. Conduit and outlets for alarm, computer/telephone, CCTV, and security system as indicated. 5. Control wiring for electrical and HVAC systems. B The drawings are diagrammatic unless indicated otherwise. The drawings reflect circuiting only and are not depicting exact conduit routing unless specifically noted other wise. 1. Data presented on these drawings are as accurate as planning can determine, but field verification of all dimensions, locations, levels, etc., to suit field conditions is required. Review all architectural, structural and mechanical drawings and adjust all work to meet the requirements of conditions shown. Discrepancies between different plans, or between drawings and specifications, or regulations and codes governing the installation shall be brought to the attention of the Engineer in writing before the date of bid opening. If discrepancies are not reported, the contractor shall bid the greater quantity or better quality, and appropriate adjustments will be made after contract award. Contractor shall be responsible to field measure and confirm mounting heights and location of electrical equipment with respect to counters, radiation, etc.\_Do not scale distances off the electrical drawings. Use actual building dimensions. 2. In all cases switches controlling lighting are to be located on the strike side of doors. Location indicated for switches and outlets are approximate. Owner may make minor relocations at no additional charge. C Examine all drawings for work required by this subcontractor. 1.2 Codes A All work shall be in accordance with the NEC, UNLV Standards and local governing codes. 1. All utility work shall be in accordance with requirements of the serving Power and Telephone companies. 2. All fire alarm work shall be in accordance with UNLV Standards, State Fire Marshall, NFPA and NFC. B All data/telecommunications work shall be in accordance with requirements of the UNLV Standards, TIA/EIA Building Telecommunications Wiring Standards. 1.3 Substitutions A Contractor's bid price shall reflect the costs of all materials as specified. No prior approval of materials will be given prior to award of bid. All switchgear and panelboards shall be furnished by a single B Substitutions of equal quality and of benefit to the Owner will be evaluated at the Contractor's request. Any additional cost to the owner for review of substitutions will be at the Contractor's expense. C After review of substitutes, the decision of the Engineer in determining equal materials will be final. 1.4 Submittals A Provide Submittals for the following equipment: 1. Wiring Devices and Dimmers 2. Disconnects 3. Circuit Breakers 4. Lighting Fixtures 5. Fire Alarm 6. Wire COPYRIGHT (C) 2013 BY TJK CONSULTING ENGINEERS. INC. B Shop Drawings and Approvals 1. The Contractor shall submit six (6) identically bound sets of shop drawings on the following items: a. Outline drawings and data sheets of each circuit breaker, disconnect, transfer switch, and panel 1) Highlight service conditions of equipment and the appropriate derating to meet 2.1.B. b. Data sheets of all wiring devices, lighting fixtures, and fuses. 1.5 Quality Assurance A All work shall be completed in a neat and workmanlike manner and in accordance with NECA standards. B All work shall be subject to inspection and possible rejection if not in accordance with these specifications, the drawings, and installed in neat and workmanlike manner. C Any rejected work shall be replaced at no additional cost to the Owner. PART 2 - PRODUCTS 2.1 Material and Equipment A Material and equipment shall be new and of current production by manufacturers regularly engaged in the manufacture of such items. Electrical switchgear and components shall be the product of a single manufacturer. All material shall be UL listed. B Service Conditions 2. Altitude- 2100 feet 3. Temperature a. Indoor – 40 degree C (100 degree F b. Outdoor — 60 degree C (140 degree F) C Conduits 1. Interior conduit shall be EMT with compression or set screw fittings. 2. Exterior conduit exposed to damage shall be type RGS. 3. Exterior buried conduit shall be schedule 40 PVC with PVC coated RGS bends when penetrating through 4. FMC shall be used for final connection to lighting fixtures not to exceed 72 inches. a. FNC or Aluminum FMC shall not be used. b. FMC shall not be used except as noted above without prior approval of the Engineer. 5. Liquid—Tite FMC shall be used for final connection to motors. 6. Conduit fittings shall be steel or malleable iron type. D Cable 1. Conductors shall be type THHN/THWN 75 degree wire. 2. Conductors shall be copper. 3. Minimum wire size shall be #12 AWG. a. 120V branch circuits over 65 feet in length from the center of the load to the panel shall be #10 AWG and branch circuits over 130 feet shall be #8 AWG. Increase conduit and wire sizes as required at no additional cost to the owner. 4. Unless otherwise required by local ordinances ground wires shall be green, neutral wires shall be white (120V) or gray (277V) and phase wires shall be black (Phase A), red (Phase B), and blue (Phase C) for a 120/208 volt system and brown (Phase A), orange (Phase B), and yellow (Phase C) for a 277/480 volt system. F Wiring Devices Wiring devices shall be as follows: a. Receptacles — 120V, 20A, NEMA 5—20R, specification grade, side and back wired with clamp type terminals, nylon, white, 2 pole, 3 wire grounding. b. Switches — 120V/277V, 20A, white, heavy duty, silent type specifications grade. c. Dimmers — Lutron Nova T 2000W. d. Isolated ground receptacles shall be equal to Pass & Seymour, cat. # IG9300—HG, color orange. 2. Device plates shall be nylon, color shall match device with matching screws. a. Receptacles in wet locations shall be installed with a hinged outlet cover/enclosure clearly marked suitable for wet locations while in use and UL Listed equal to: 1) Tay Mac - ML400G. 2) Intermatic — WP1000RC. 3) Pass & Seymour — WIUFC10S. 3. Lighting Control a. Furnish and install time switches, photocells and contactors required for lighting control as indicated b. Time switches shall be Intermatic ET 7000 Series or equal by paragon, General Electric, or Tork, and shall have size and number of poles as required. c. Contactors shall be electrically operated and held in NEMA Type I enclosures having amperage capacity and number poles and voltage class indicated. H Safety switches shall be General Duty type, NEMA 1 indoor and NEMA 3R outdoor. I Overcurrent Protection Devices: 1. Circuit breakers shall be of the same manufactures as panelboards and switchboards. Provide breakers 2. Fuses used to protect motors shall be Bussman type FRN-R. All fuses installed in fused disconnects shall be Class R unless noted otherwise. 3. Provide HACR rated breakers for mechanical equipment. J Provide grounding for all branch circuits. Conduit, listed for use, may be used for grounding for 20A

ground wire.

K Lighting fixtures and accessories:

2. Provide lamps for all fixtures.

L Outlet, Pull and Junction Boxes

coverplates. M Temperature Control

mechanical plans to HVAC units.

branch circuits only when approved for such use. All FMC and non-metallic conduit shall have a separate

3. Electronic ballasts shall have .95 power factor, .875 ballast factor and less than 15% total harmonic

1. Each switch, light, receptacle or other outlet shall be provided with a code gauge, galvanized steel

outlet box. Junction and pullboxes shall be code gauge, galvanized steel. Outlet boxes shall be of the

one piece, knockout type, in general 4" square with plaster ring. Plaster rings shall be set to provide not more than 1/8" from wall surface to ring. In no case shall plaster ring project beyond surface of

wall. Single gang rings similar to Steel City 52-C-50 shall be used for 4" boxes in unfinished brick. RACO 3180 boxes may be used for unfinished masonry flush wall outlets. Center all outlet boxes in

2. Boxes installed for telephone, alarm, computer and security systems shall be provided with appropriate

1. Unless otherwise indicated on the plans all wiring, etc. shall be furnished and installed by the Temperature Control Contractor. Provide conduit from temperature control devices shown on

1. Lighting fixtures shall be as shown on the lighting fixture schedule. a. Verify ceiling construction before ordering recessed units.

1) Fluorescent & HID - 1 year from beneficial occupancy. 2) Incandescent — 3 months from beneficial occupancy.

block course and provide a smooth finish block at outlet locations.

b. Provide plaster frames and hangers as required.

a. Lamps shall be guaranteed as follows:

N Fire Alarm Systems 1. Unless otherwise indicated on the plans, all conduit, wiring, boxes, equipment, etc., shall be furnished and installed by the Fire Alarm Control Contractor. Install duct smoke detectors as required by code

2. Provide all 120v power at locations required to provide a complete operating system.

3. Include in drawings any additional devices not shown on drawings but required to make system operational and to obtain approval by Fire Marshall. Additional devices shall be included at no additional cost to the Owner. All submittals are to be sent to State Fire Marshall and local jurisdiction for approval prior to submittal to A/E.

## PART 3 - EXECUTION 3.1 Installation

A Equipment locations shall be as close as practical to locations shown on the plan drawings and subject to such approved revisions at no cost to the owner as may be found necessary or desirable at the time work

B Close all openings in walls, floors, and roofs to the approval of the Architect.

C Paint all conduits and boxes that are required to be exposed to match building surfaces. Run all exposed conduit parallel and perpendicular to building lines. D Provide engraved phenolic nameplates on all equipment and install typed directory in panelboards. Fasten

nameplates with screws or rivets, do not use adhesive. E Coordinate the work with other trades.

F Megger test all feeder circuits after installation.

to shut down HVAC units.

G Install 200 pound test pull nylon pull cord in all signal and communication conduits. H Install switches at 48" AFF and receptacles at 18" AFF unless noted otherwise.

I Panelboards shall be installed with the top of the cabinet 6'-0" AFF.

J Lighting fixtures shall be fastened to the structure independent of the ceiling system.

K Conduits and outlets shall be concealed within the building structure; except that certain motor and lighting feeder conduits may be run exposed in certain areas as indicated on the drawings. Conduit and outlets shown to be installed in cabinets, counters, and casework shall be run or installed as directed by

M Patch and repair area where items have been demolished or damaged during construction to match

L Floor mounted electrical equipment shall be mounted on a 4" high housekeeping pad extending 6" beyond

adiacent surfaces to Owner's approval. N Provide and install Arc—Flash Hazard Labels of each electrical enclosure and equipment for which Arc—Flash

calculations were performed. Labels shall comply with the requirements of NFPA 70E and contain as a

1. Voltage (Phase to Phase).

2. Flash Protection Boundary (Inches). 3. Incident Energy at the Working Distance (cal./cm2)

4. Personal Protective Equipment (PPE) Class and description (including glove rating).

5. Restricted Approach Boundary (Inches). 6. Limited Shock Approach Boundary (Inches).

7. Prohibited Shock Approach Boundary (Inches).

8. Location Identification.

O Install pullboxes such that they are located at the high point of the conduits with 24" of pea gravel installed below.

P Conduits penetrating floor slabs shall be installed a minimum of 2" AFF.

Q Label all spare conduits/pullstrings at both ends with identification of location at the opposite end. R A completely and thoroughly swab raceway before installing wire.

S Request inspections from Local Governing Authorities. 3.2 Project Completion

A Remove all discarded materials from demolition and installation from the job site.

B Provide reproducible record drawings of all completed work.

C Guarantee all material furnished and all workmanship performed for a period of one year from the date of final acceptance of the work. Any defects developing within this period, traceable to material furnished as a part of this Section or workmanship performed hereunder, shall be made good at no additional expense to the Owner.

"END OF SECTION"

## **ELECTRICAL LEGEND:**

PANELBOARD SURFACE MOUNTED

TRANSFORMER

TELEPHONE TERMINAL BOARD 4 X 8 X 3/4" FIRE TREATED PLYWOOD DUPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE

FLOOR MOUNTED DUPLEX RECEPTACLE

QUADRUPLEX RECEPTACLE 18" AFF UNO

FLOOR MOUNTED QUADRUPLEX RECEPTACLE

ISOLATED GROUND TYPE (ORANGE) DUPLEX RECEPTACLE

AT 18" AFF UNO. ISOLATED GROUND TYPE (ORANGE) QUADRUPLEX RECEPTACLE

AT 18" AFF UNO. COUNTER HEIGHT RECEPTACLE (VERIFY HEIGHT)

GFI DUPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE SWITCHED DUPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE

ELECTRIC SHEET NOTE DESIGNATION

SPECIAL PURPOSE RECEPTACLE - NUMBER REFERS TO RECEPTACLE SCHEDULE

(a) 'C' INDICATES TO MOUNT DEVICE(S) 6" ABOVE COUNTER

SINGLE POLE SWITCH 48" AFF UNO

CONTROL STATION

SWITCH MOUNTED DUAL TECH MOTION SENSOR.

CEILING MOUNTED DUAL TECH MOTION SENSOR.

TELEPHONE

DATA OUTLET 18" AFF, UNLESS NOTED OTHERWISE

FLOOR MOUNTED DATA OUTLET

FLOOR MOUNTED DATA/POWER J-BOX

DISCONNECT SWITCH

NOT INCLUDING GROUND WIRE ➤ HOME RUN TO PANELBOARD OR DEVICE — NUMBER OF ARROW

BRANCH CIRCUIT CONSISTING OF 2#12 IN MINIMUM SIZE CONDUIT

HEADS INDICATES NUMBER OF CIRCUITS

--- CONDUIT IN SLAB OR UNDERGROUND \_\_\_\_\_ INTERRUPTER SWITCH

**─III** FUSE \_\_\_\_ CIRCUIT BREAKER

METERING

TRANSFORMER

MOTOR OUTLET

GROUND ROD

WALL MOUNTED CLOCK

THERMOSTAT

JUNCTION BOX (USED FOR CLARITY ONLY)

HORN

S HORN / STROBE

SIX STROBE

SMOKE DAMPER

FIRE ALARM MONITOR MODULE FIRE ALARM CONTROL MODULE

- 丁 \_ T T T EXISTING - 上 T 上 — CABLE TRAY IN CEILING

GFI GROUND FAULT INTERRUPT

GND GROUND

- - - EXISTING - - - L - CABLE TRAY IN FLOOR

A DDDEVIATIONS.

ABBREVIATIONS:										
AFF	ABOVE FINISHED FLOOR	J-BOX	JUNCTION BOX							
AFG	ABOVE FINISHED GRADE	KVA	KILOVOLT AMPS							
AL	ALUMINUM	KW	KILOWATT							
BKR	BREAKER	LTG	LIGHTING							
С	CONDUIT	NTS	NOT TO SCALE							
CKT	CIRCUIT	PNL	PANEL							
C.O.	CONDUIT ONLY	PWR	POWER							
CU	COPPER	TYP	TYPICAL							
DWG	DRAWING	UNO	UNLESS NOTED							
			OTHERWISE							
ELEC	ELECTRICAL	V	VOLTS							
EXIST	EXISTING	VA	VOLT AMPS							

WP

XF

WEATHER PROOF

TRANSFORMER

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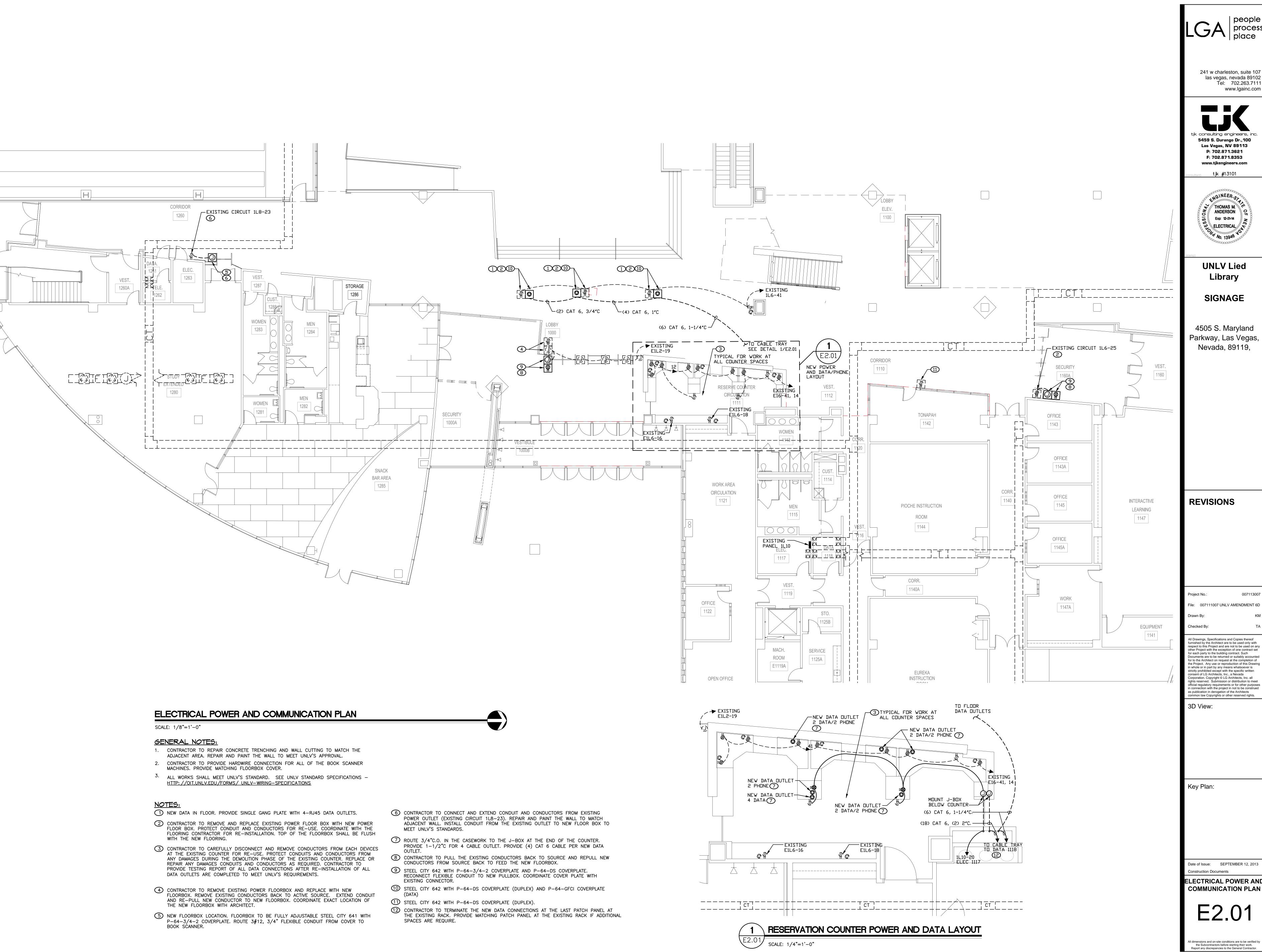
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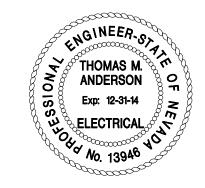
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**ELECTRICAL LEGEND AND SPECIFICATIONS** 

dimensions and on-site conditions are to be verified by the Subcontractors before starting their work. Report any discrepancies to the General Contracto



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