# GOATBARN LANE HOUSE BOULDER, COLORADO



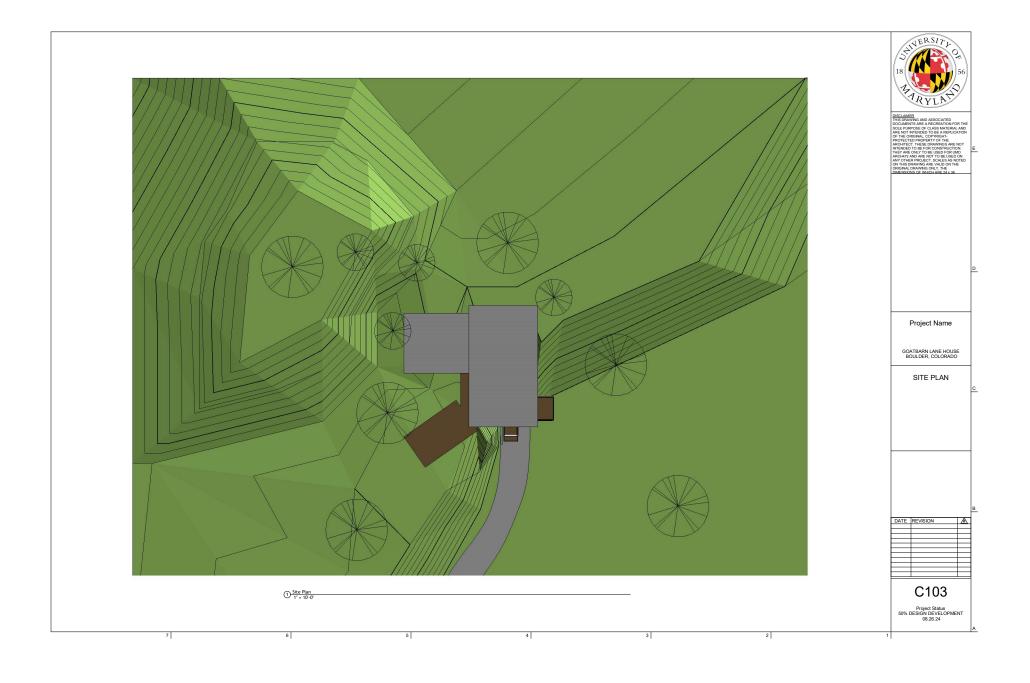
50% DESIGN DEVELOPMENT 08.26.24

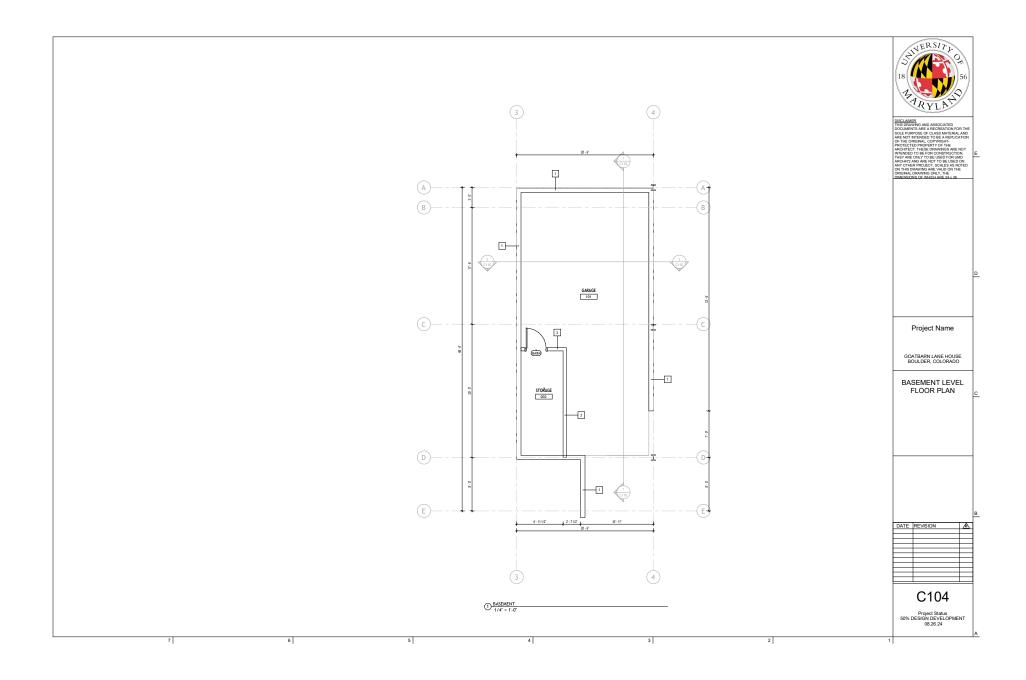
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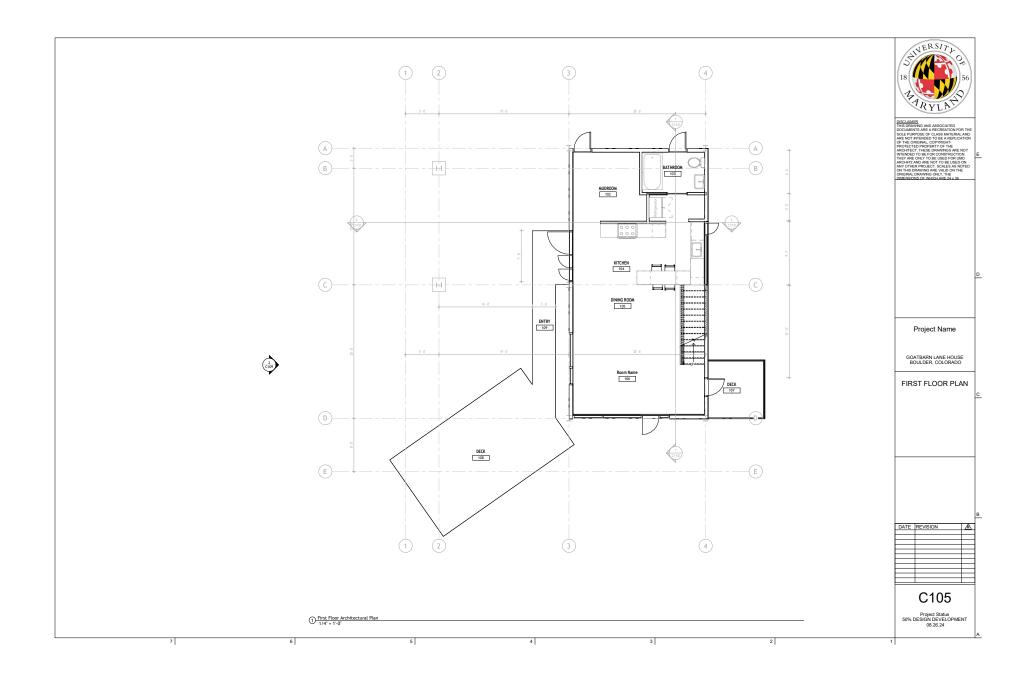
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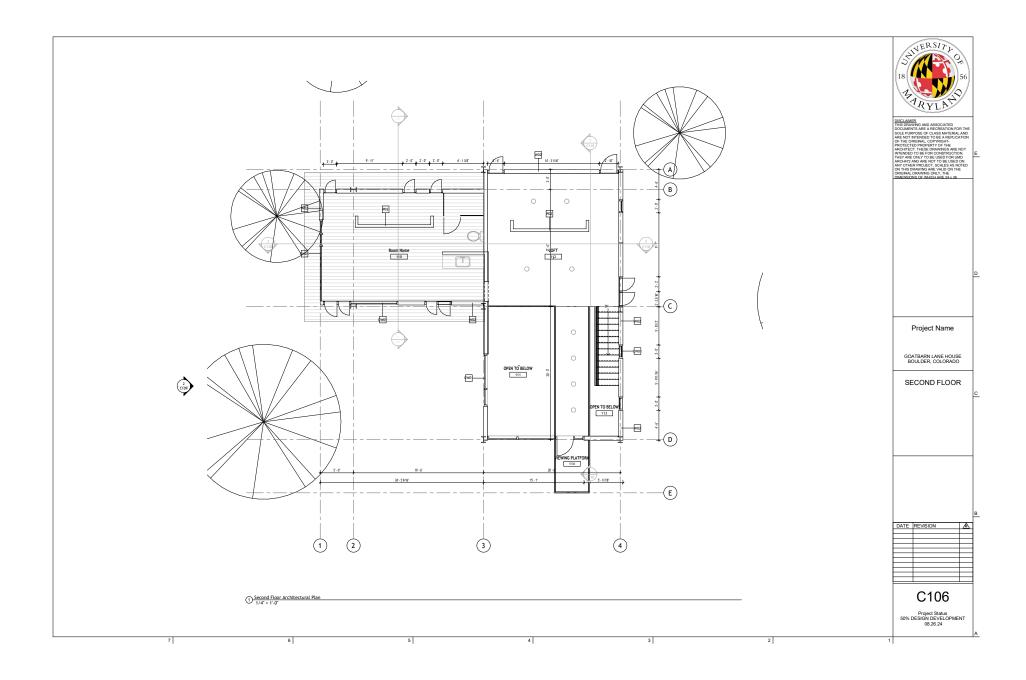
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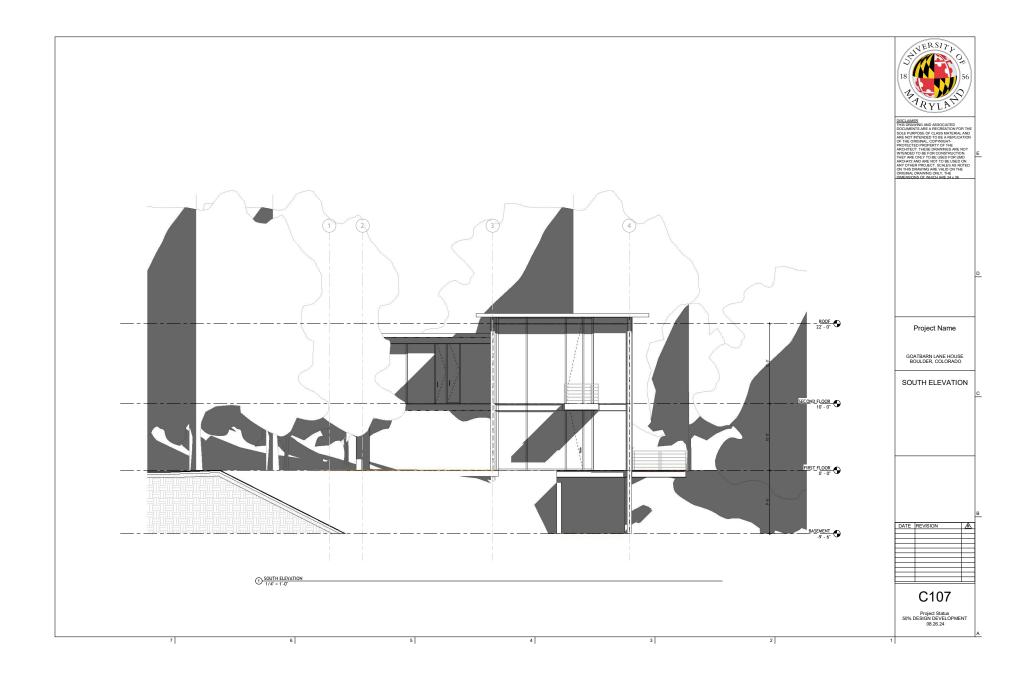
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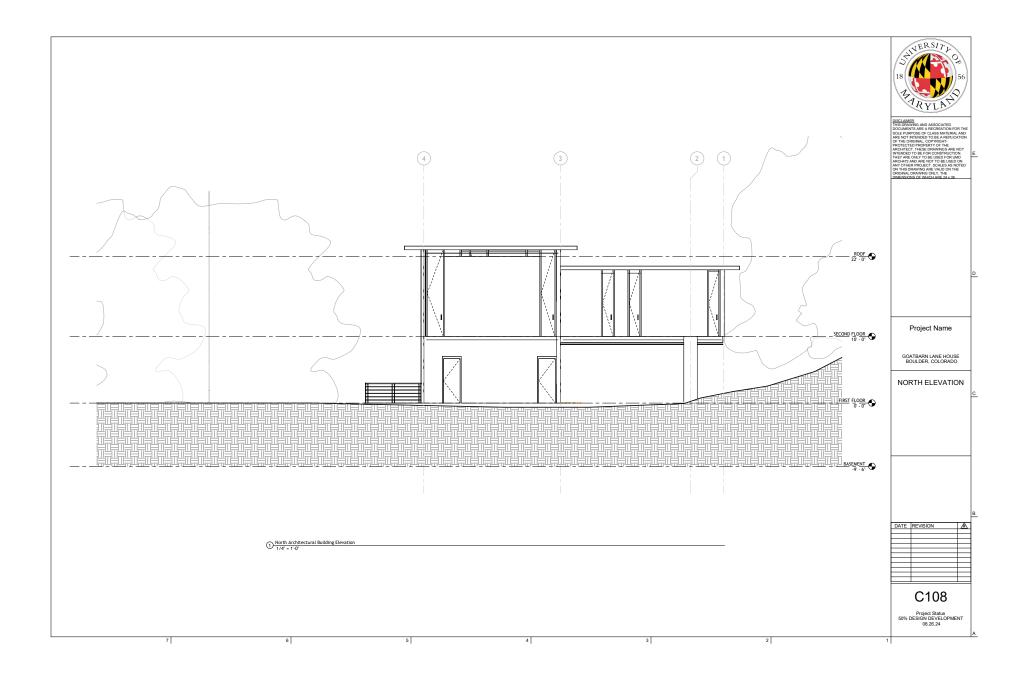


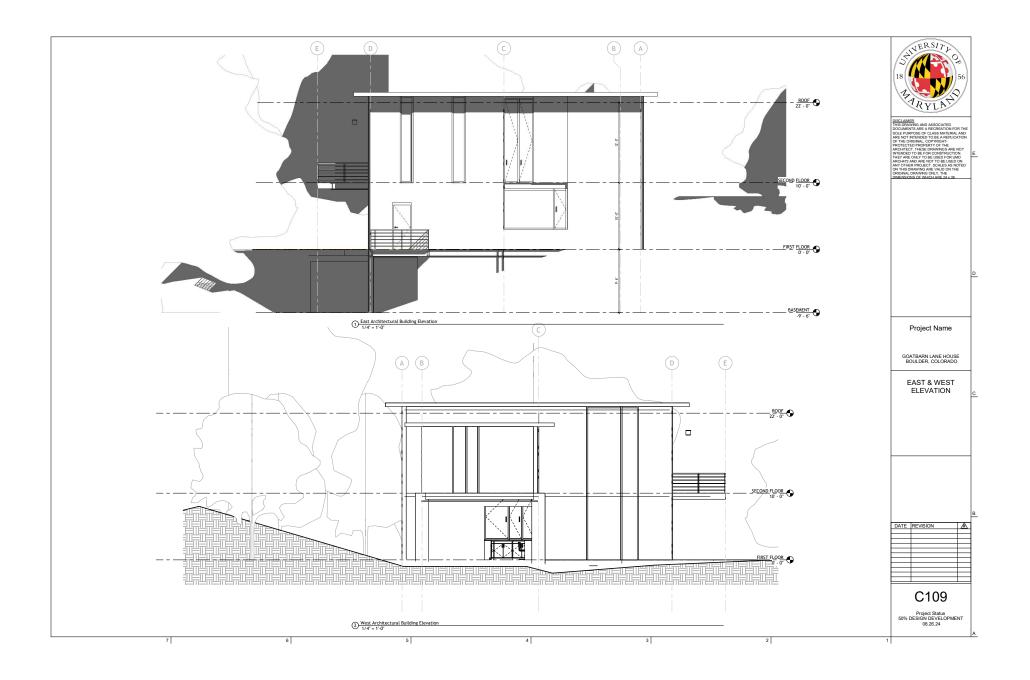


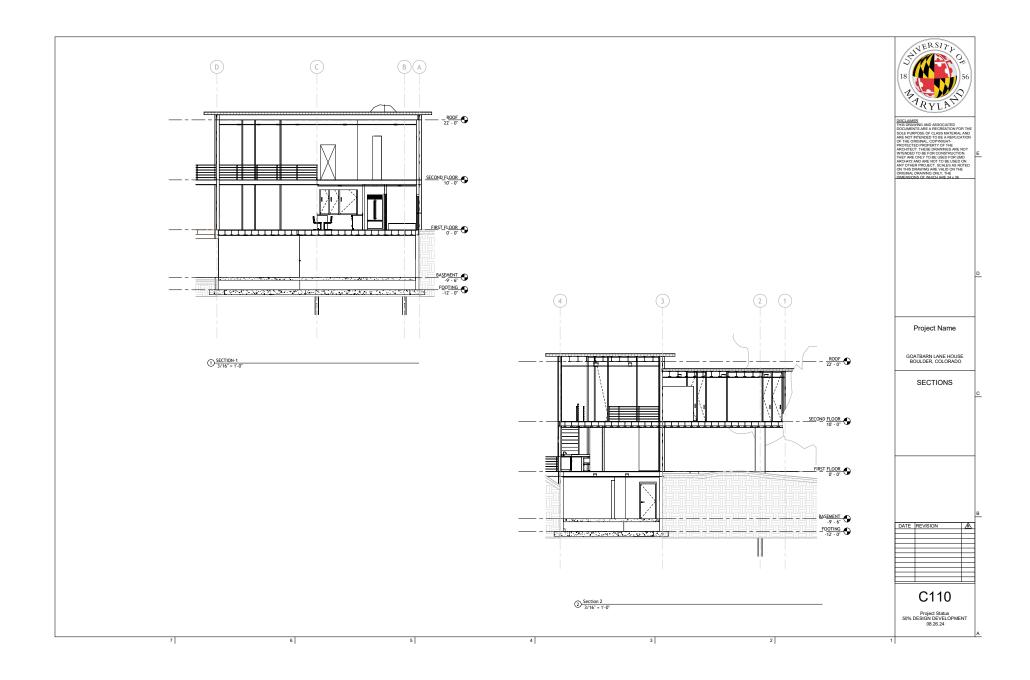


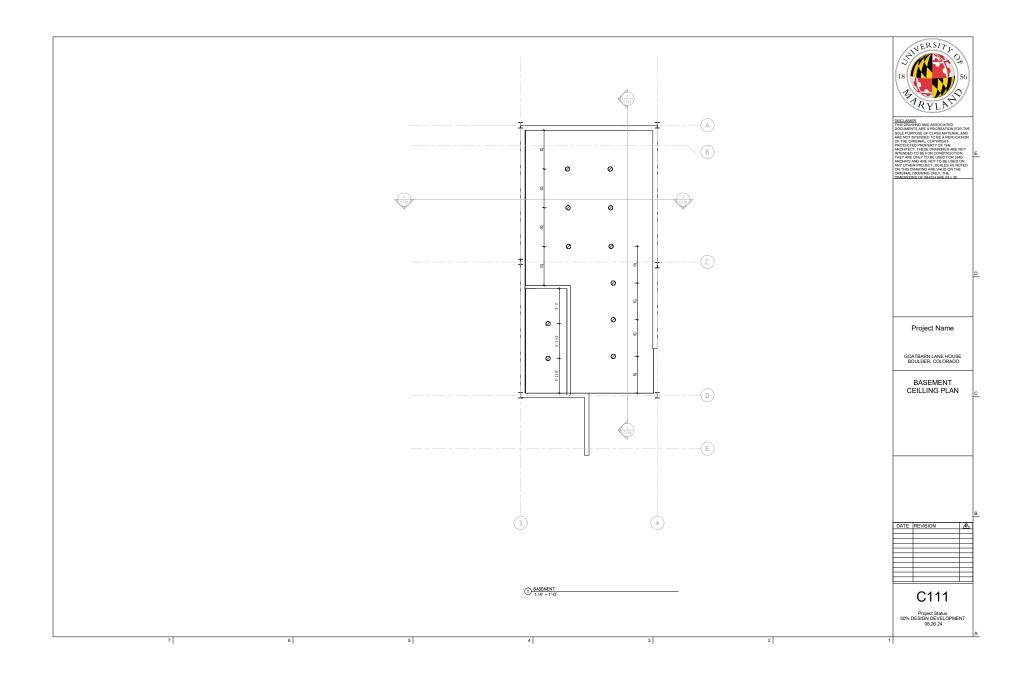


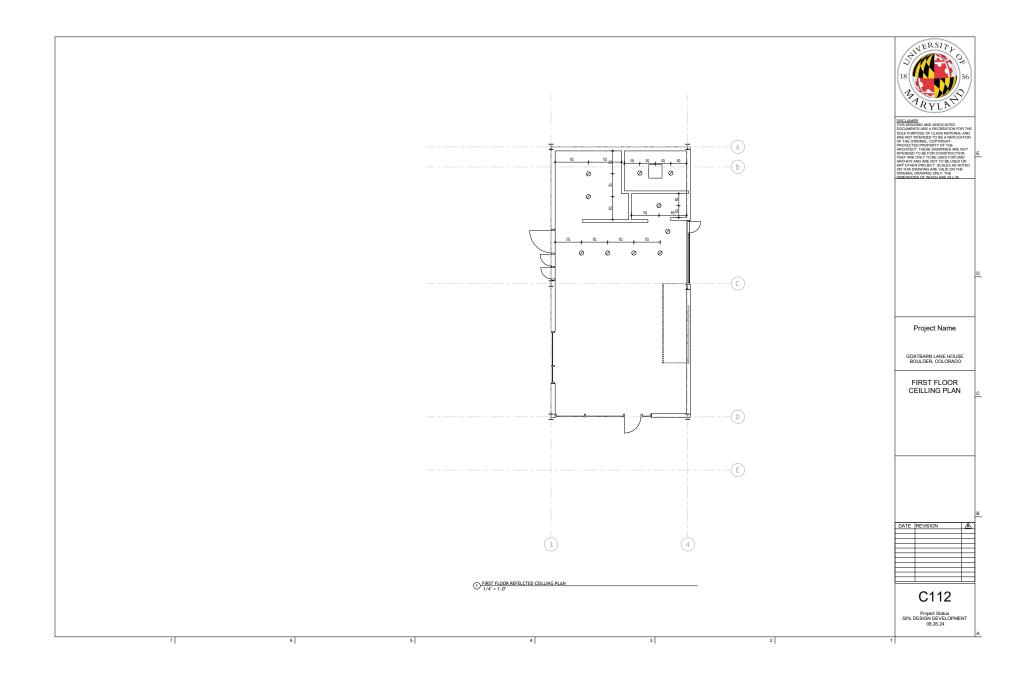


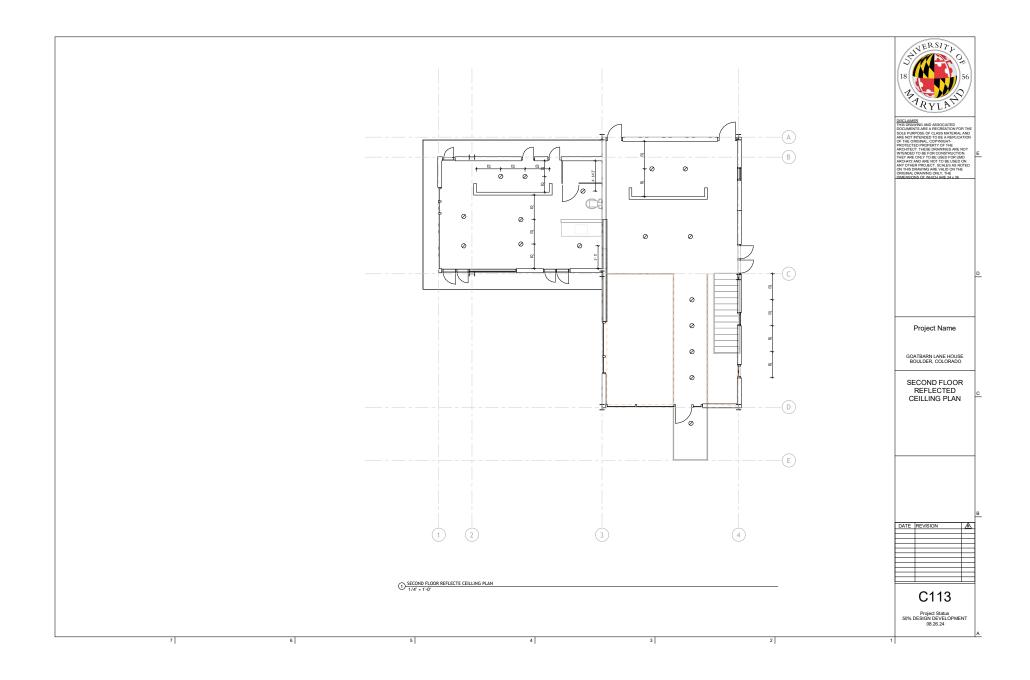


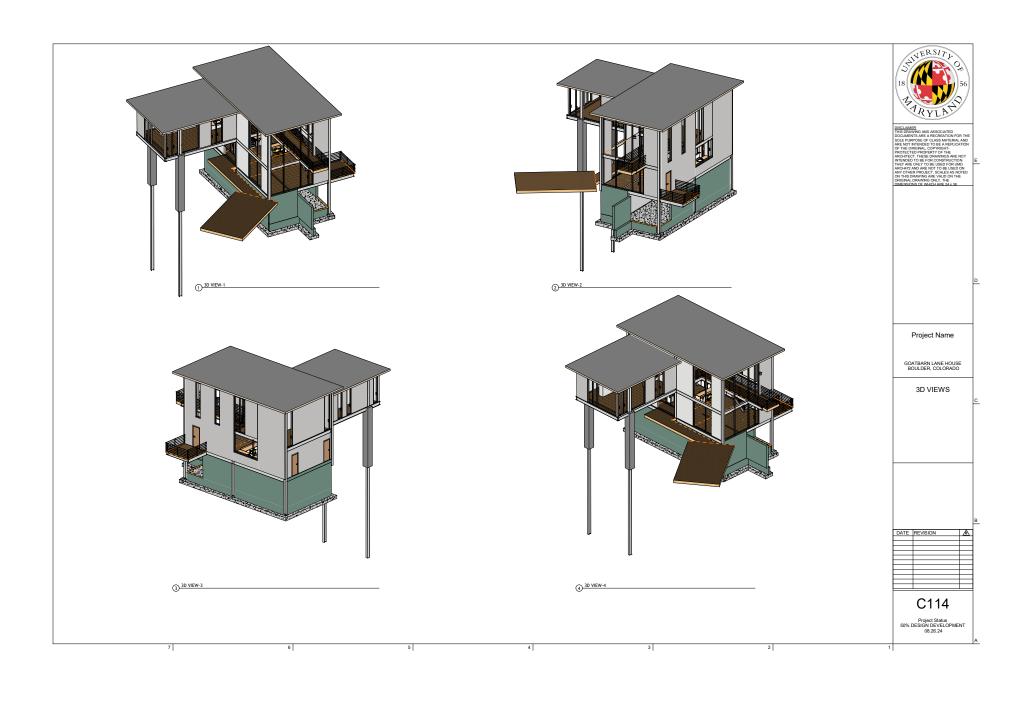


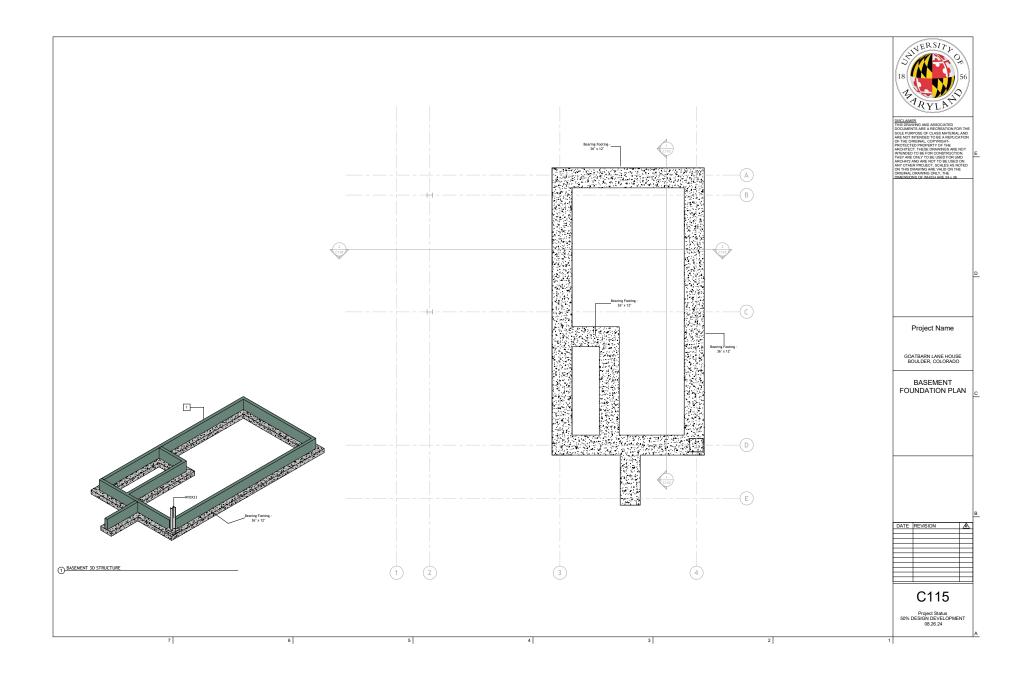


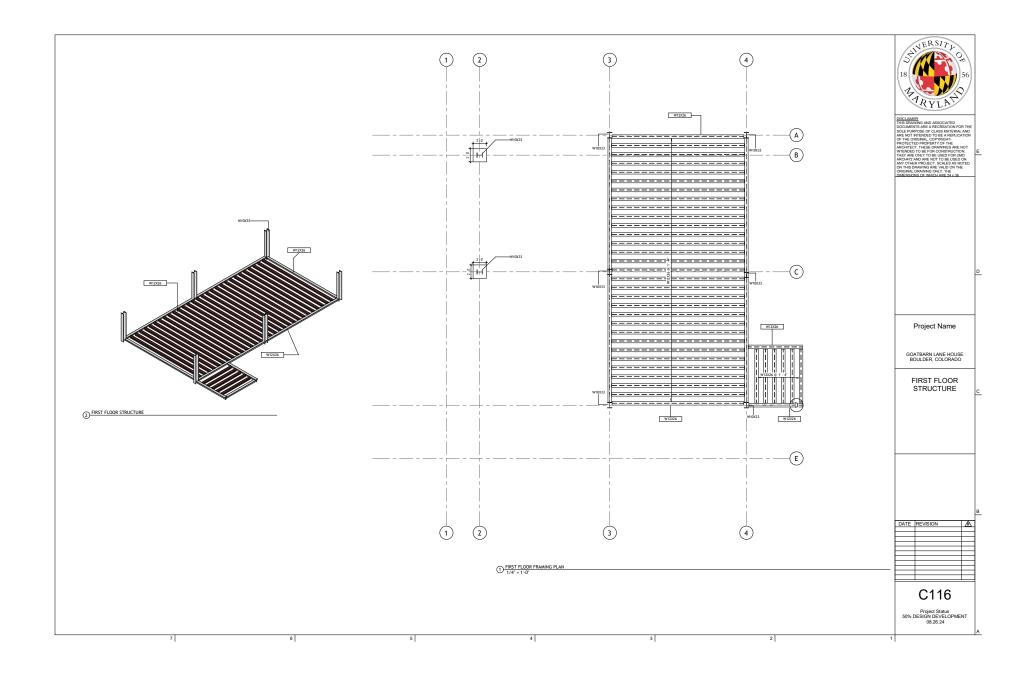


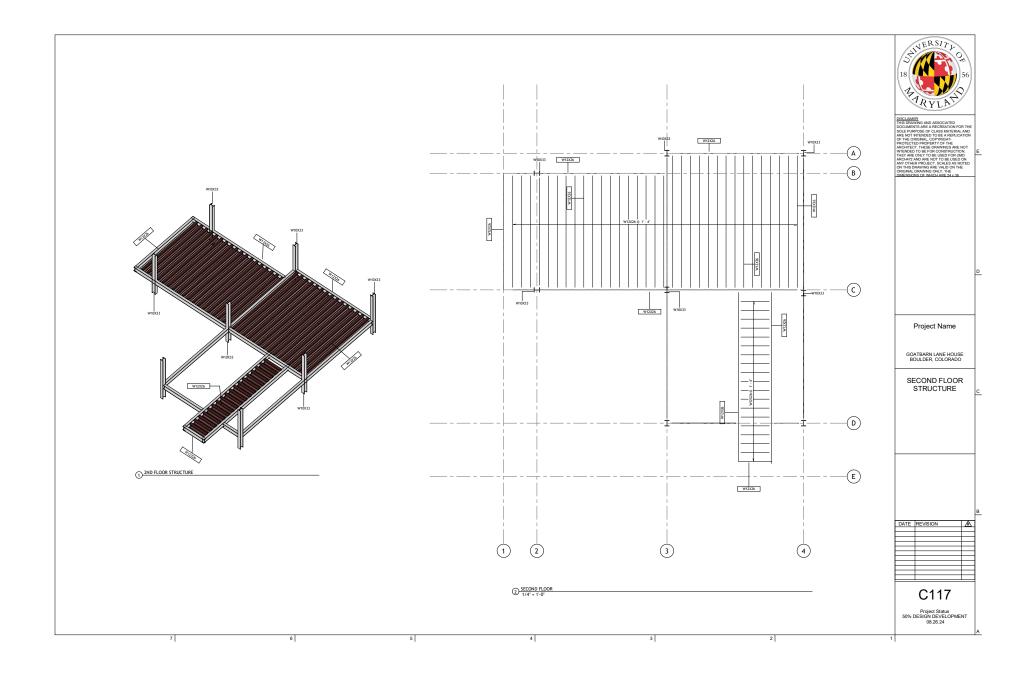


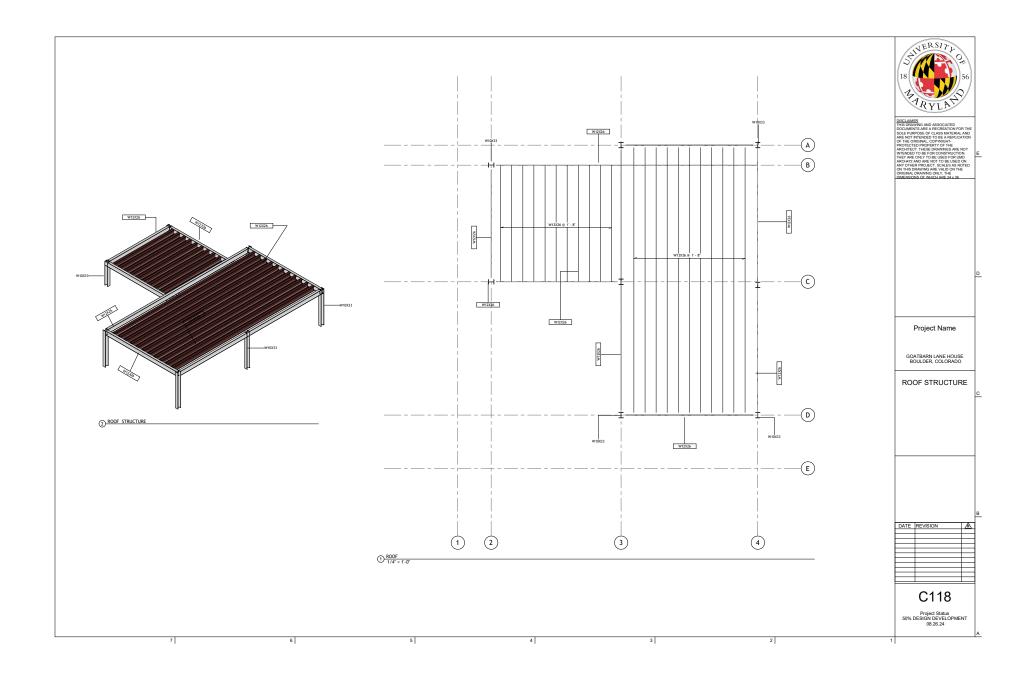












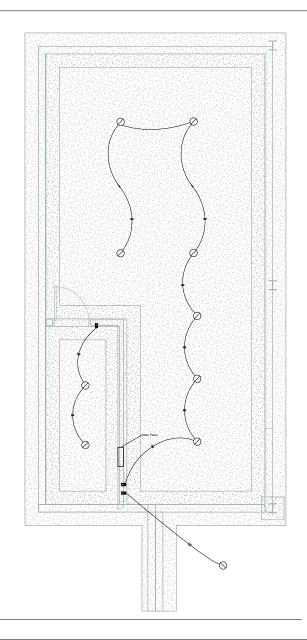


### Note:

This Electrical Lighting Plan for Goatbarn Lane, Boulder, Colorado 80302, has been developed in strict adherence to the latest applicable codes and regulations to ensure safety, efficiency, and compliance. The following codes and standards have been incorporated:

- 1. 2023 National Electrical Code (NEC): Adopted by the State of Colorado and enforced by the City of Boulder as of August 1, 2023, this code serves as the foundational standard for electrical installations.
- 2. 2018 International Building Codes (IBC): Adopted with local amendments by the City of Boulder, these codes govern building construction standards and are integral to the overall design and safety considerations of this plan.
- 3. 2024 City of Boulder Energy Conservation Code (CoBECC): Effective December 1, 2024, this code emphasizes energy efficiency and sustainability, aligning with Boulder's commitment to reducing greenhouse gas emissions.
- 4. City of Boulder Contractor Licensing Requirements: All electrical work will be performed by contractors registered with the City of Boulder, ensuring compliance with local licensing regulations and adherence to the supervision ratios mandated by state statutes.
- 5. City of Boulder Design and Construction Standards: These standards ensure that all public improvements associated with developing, redeveloping, and subdividing lands meet the city's requirements for safety, functionality, and sustainability.

By integrating these updated codes and standards, this Electrical Lighting Plan ensures compliance with all relevant regulations in Boulder, Colorado, thereby promoting safety, reliability, and energy efficiency.







No.	Description	Date
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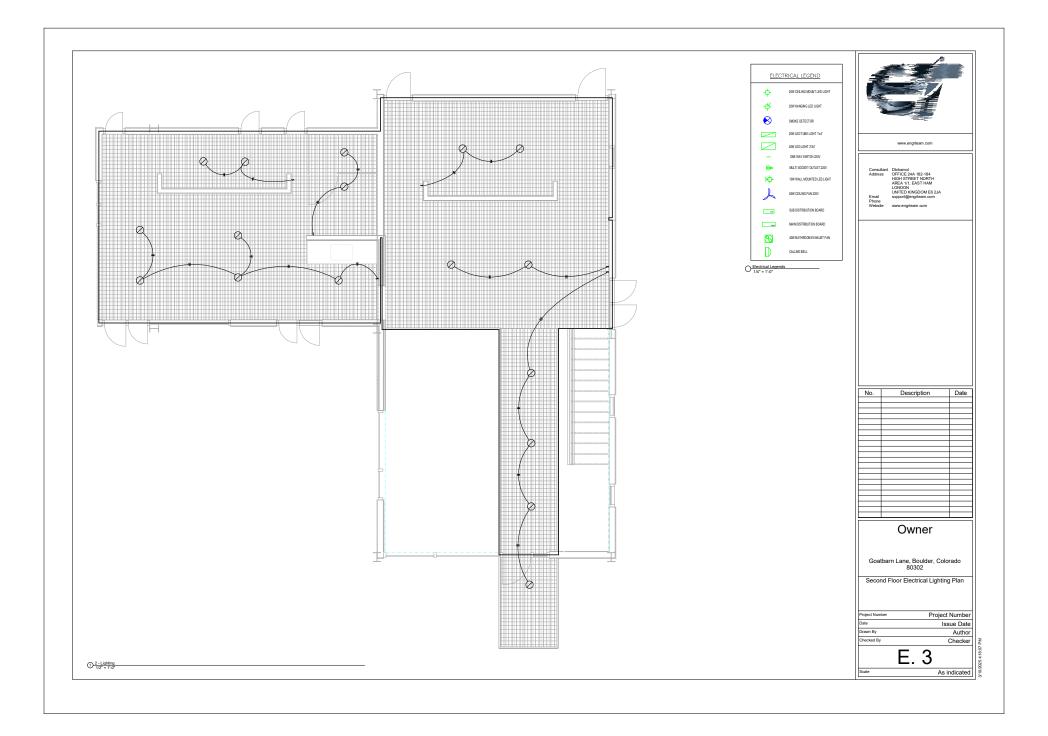
# Owner Goatbarn Lane, Boulder, Colorado 80302 Basement Electrical Lighting Plan Goet Number Project Number

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Drawn By Author
Checked By Checker

E. 1

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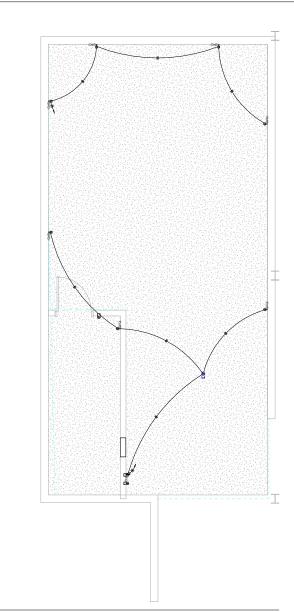


### Npote:

This Electrical Lighting Layout Plan for 20700 N. Main St, Unit 104, Cornelius, NC 28031, has been developed in strict adherence to the following current codes and regulations:

- 1. 2020 North Carolina State Electrical Code: This code incorporates the 2020 National Electrical Code (NEC) along with specific North Carolina amendments. It has been effective since November 1, 2021, and remains applicable until June 30, 2025.
- 2. 2018 North Carolina State Building Code: Based on the 2015 International Building Code (IBC), this code has been effective since January 1, 2019, and continues to be in force until June 30,
- 3. 2018 North Carolina State Fire Prevention Code: Aligned with the 2015 International Fire Code (IFC), this code has been effective since January 1, 2019, and remains applicable until June 30, 2025.
- 4. 2018 North Carolina State Energy Conservation Code: This code, effective since January 1, 2019, outlines energy efficiency requirements and will remain in effect until June 30, 2025.
- 5. 2018 North Carolina State Existing Building Code: Effective since January 1, 2019, this code provides regulations for existing buildings and continues to be in force until June 30, 2025.
- 6. 2018 North Carolina State Plumbing Code: Based on the 2015 International Plumbing Code (IPC), this code has been effective since January 1, 2019, and remains applicable until June 30.
- 7. 2018 North Carolina State Mechanical Code: Aligned with the 2015 International Mechanical Code (IMC), this code has been effective since January 1, 2019, and continues to be in effect until June 30, 2025.
- 8. 2018 North Carolina State Fuel Gas Code: This code, effective since January 1, 2019, governs the installation of fuel gas systems and will remain in force until June 30, 2025.
- 9. 2018 North Carolina State Building Code (Chapter 11) & ANSI A117.1: This code addresses accessibility standards and has been effective since January 1, 2019, remaining applicable until June 30, 2025.
- 10. 2018 North Carolina Administrative Code and Policies: Effective since January 1, 2019, this code outlines administrative provisions and policies and continues to be in effect until June 30, 2025.

These codes collectively ensure that the electrical design meets all safety, functionality, and compliance standards as mandated by the state of North Carolina. 1) 0- Power BASEMENT





O Electrical Legend



No.	Description	Date

### Owner

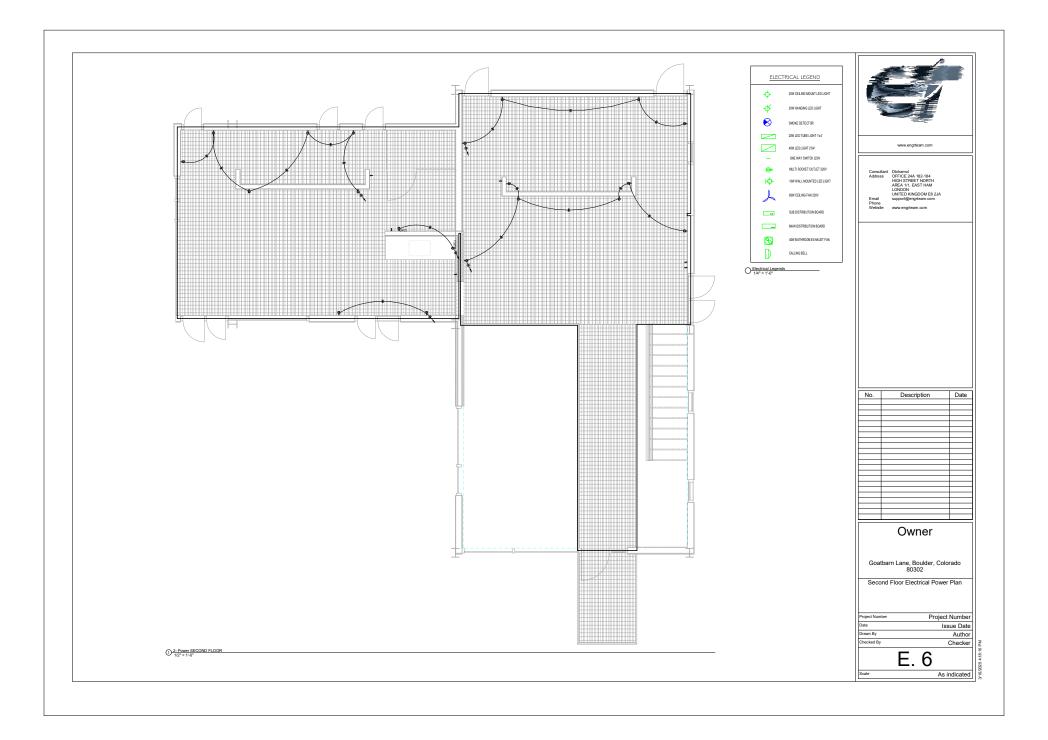
Goatbarn Lane, Boulder, Colorado 80302

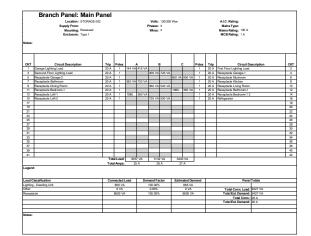
Basement Electrical Power Plan

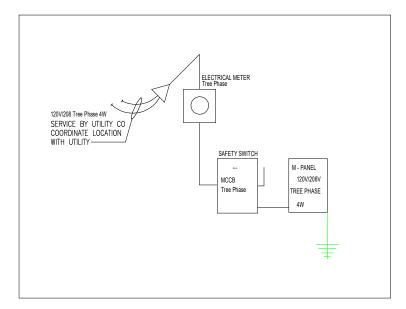
Project Number Issue Date Author Checker

E. 4









Single Line Diagram
1/2\* = 1'.0\*



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## Owner

Goatbarn Lane, Boulder, Colorado 80302

Electrical Load Schedule Plan & SLD

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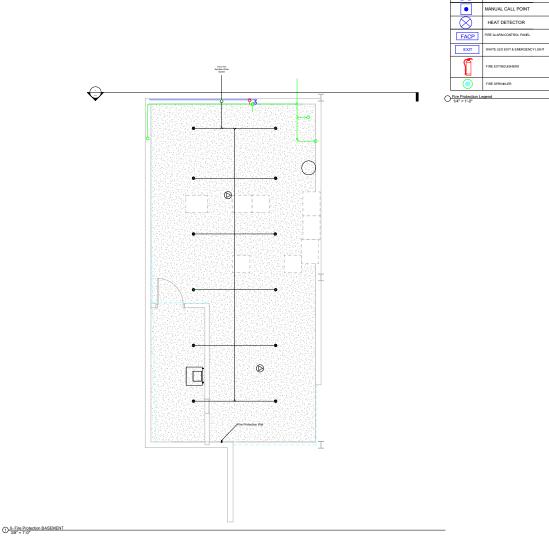
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These codes collectively ensure that the electrical design meets all safety, functionality, and compliance standards as mandated by the state of North Carolina.





FIRE PROTECTION LEGENDS

DESCRIPTION

SMOKE DETECTOR SOUNDER

SYMBOLS

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No. Description Date

Owner

Goatbarn Lane, Boulder, Colorado 80302

Basement Fire Protection Plan

 Project Number
 Project Number

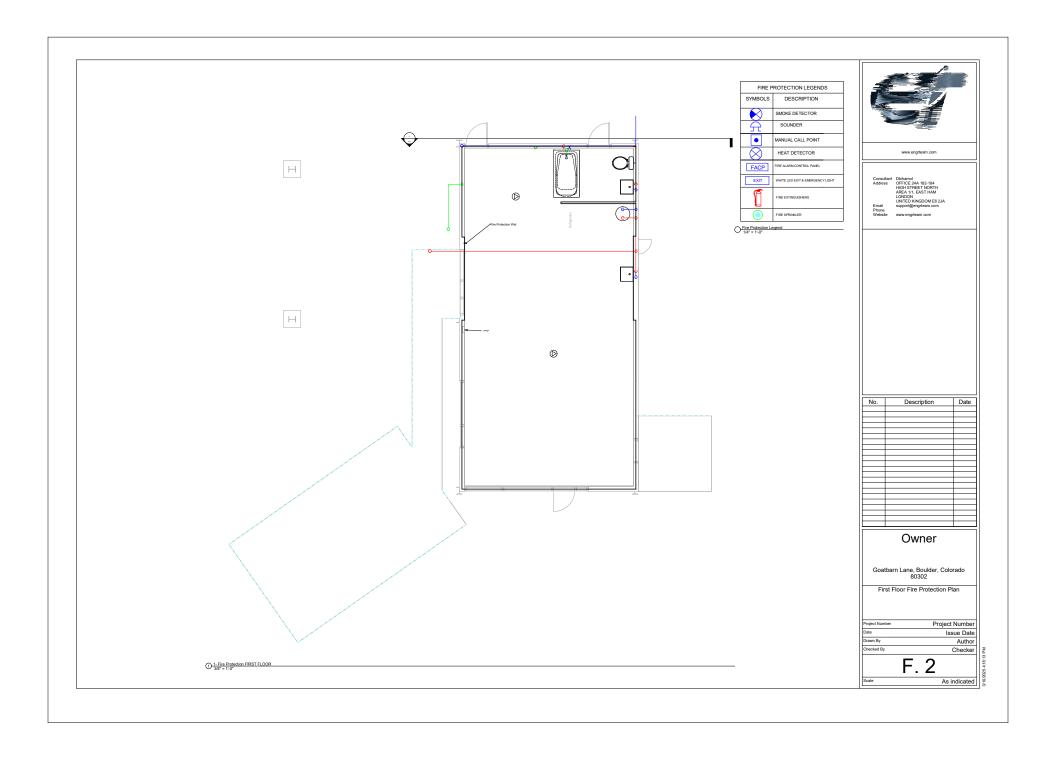
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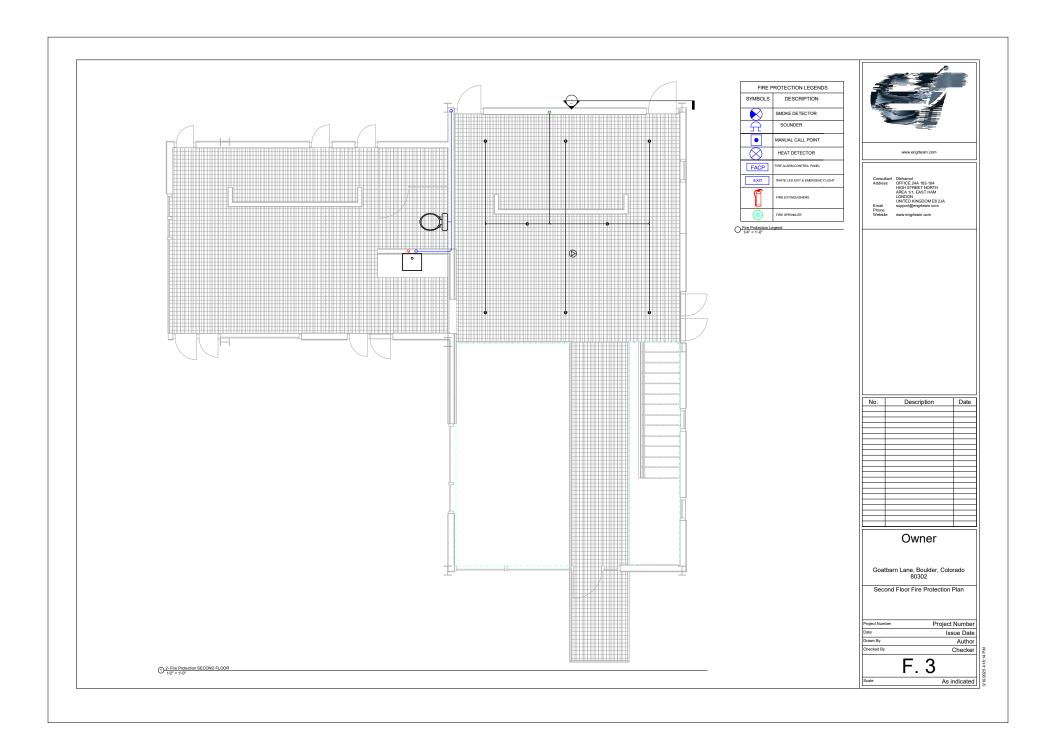
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 Author

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### Note

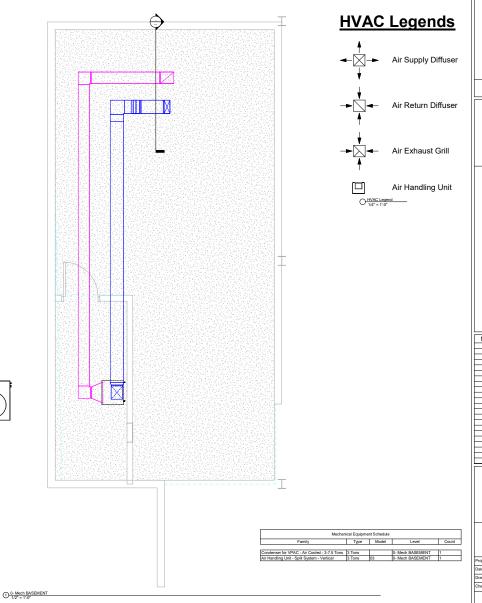
This HVAC layout plan has been designed in strict adherence to the latest codes and regulations applicable to Goatbarn Lane, Boulder, Colorado 80302. The following standards have been incorporated:

- 2018 International Building Code (IBC): Establishes minimum requirements to safeguard public health, safety, and general welfare through structural strength, means of egress facilities, stability, and other essential criteria.
- 2. 2018 International Mechanical Code (IMC): Regulates the design, installation, maintenance, alteration, and inspection of mechanical systems to ensure safety and efficiency.
- 3. 2024 City of Boulder Energy Conservation Code (CoBECC): Implements energy efficiency requirements to support the city's climate commitment, aiming for high-performance, net-zero energy buildings.
- 2023 National Electrical Code (NEC): Provides the latest comprehensive regulations for electrical wiring and equipment to ensure safety.
- Boulder Revised Code, Title 10: Structures: Contains local amendments and specific requirements related to building structures within Boulder.
- 6. Boulder County Building Code Amendments: Effective March 31, 2025, these amendments include additional requirements for energy efficiency, sustainability, and ignition-resistant construction to protect and prepare the community for a changing climate.
- 7. Colorado House Bill 22-1362: Mandates the adoption of the 2021 International Energy Conservation Code (IECC) and the state's model electric-ready and solar-ready code for jurisdictions updating any building code after July 1, 2023.
- 8. City of Boulder Building Performance Ordinance (Ordinance No. 8071): Requires rating, reporting, and energy efficiency measures for commercial and industrial buildings to reduce energy use and improve building quality.
- 9. Colorado Revised Statutes (C.R.S.) 30-28-201: Requires counties with building codes to adopt and enforce a building energy code meeting or exceeding the standards in the 2003 IECC.
- 10. Colorado State Electrical Board Regulations: Enforces the current version of the National Electrical Code (NEC) as adopted by the state.

By integrating these standards, this HVAC plan ensures compliance with all relevant local and state regulations, promoting safety, efficiency, and sustainability.

EXHAUST FAN SCHEDULE									
MARK	SERVING	CFM	SP	WATTS	RPM	VOLTAGE	MAKE MODEL	NOTES	FAN TYPE
EF-1	BATHROOM	50	-	50	460	120/60/1	Broan-NuTone 688		IN-LINE
EF-2	KITCHEN	375	-	78	460	120/60/1	Broan-NuTone BCSQ130SS		IN-LINE
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Exhaust Fan Schedule



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Date

Owner

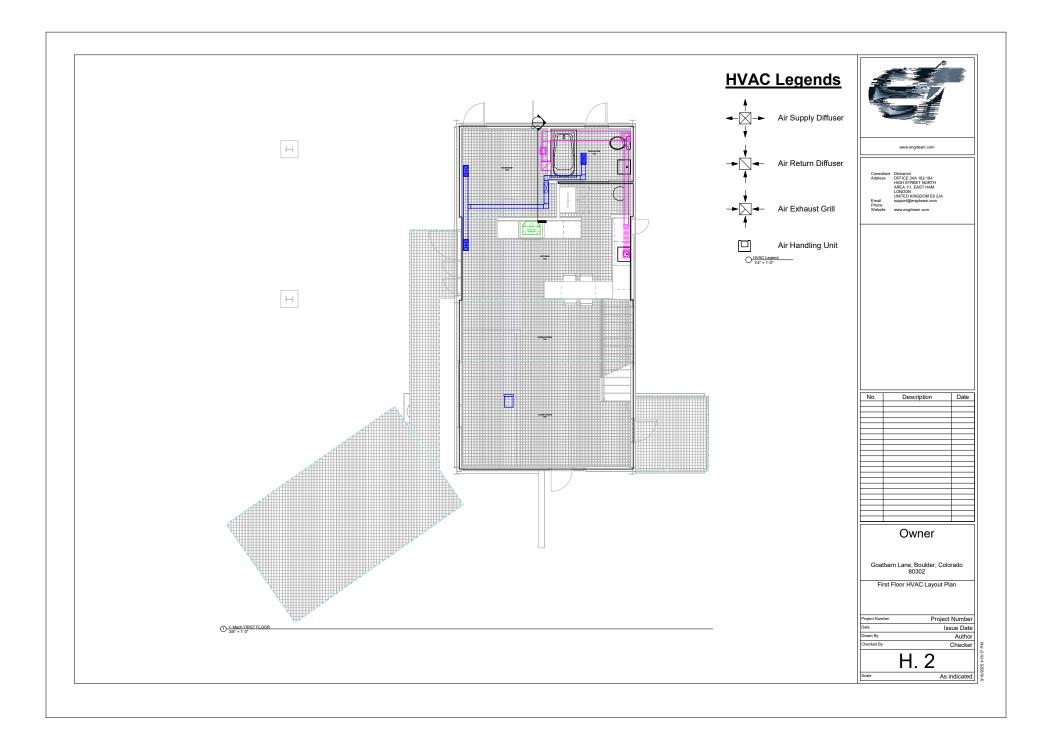
Goatbarn Lane, Boulder, Colorado 80302 Basement HVAC Layout Plan

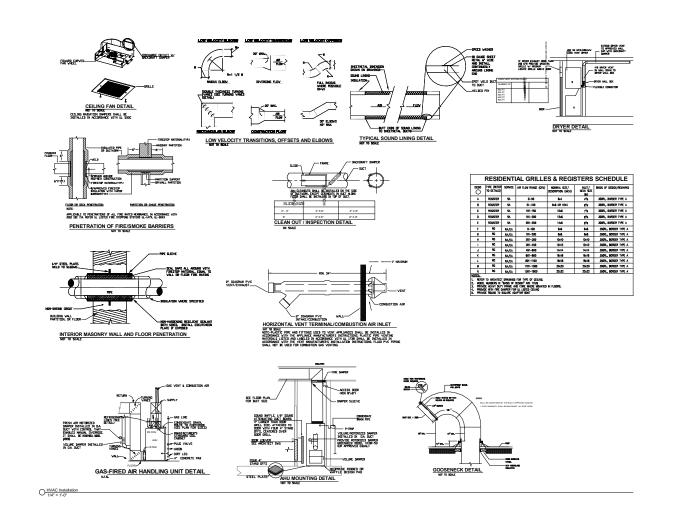
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Project Number Issue Date Author

Checker

As indicated







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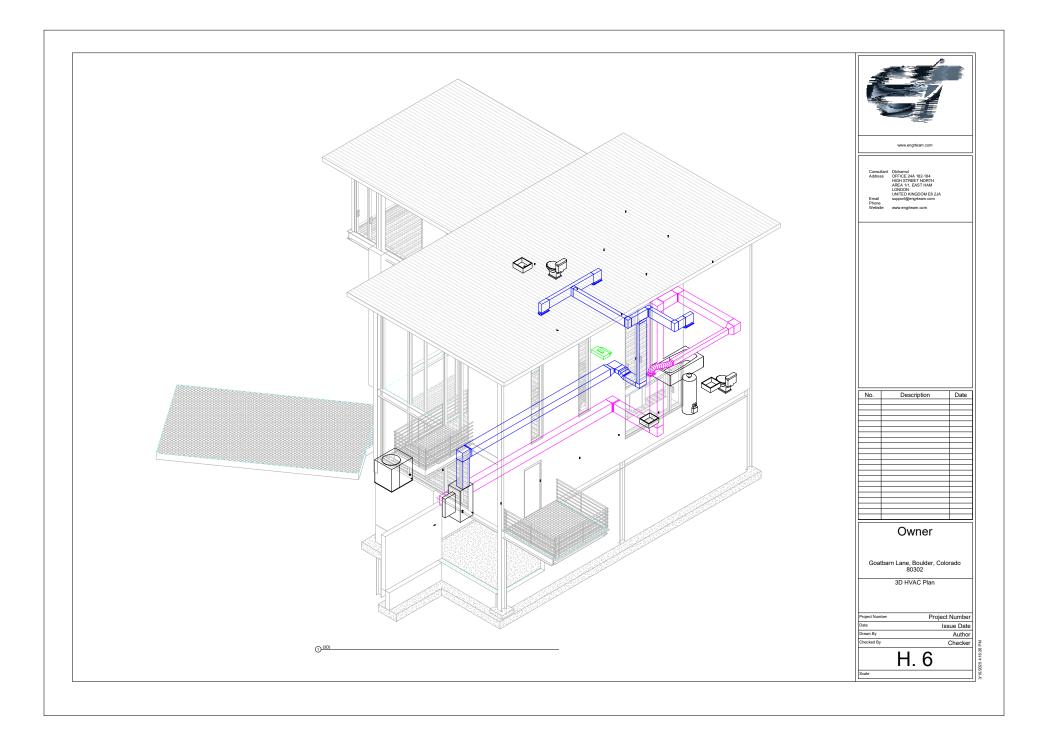
Goatbarn Lane, Boulder, Colorado 80302

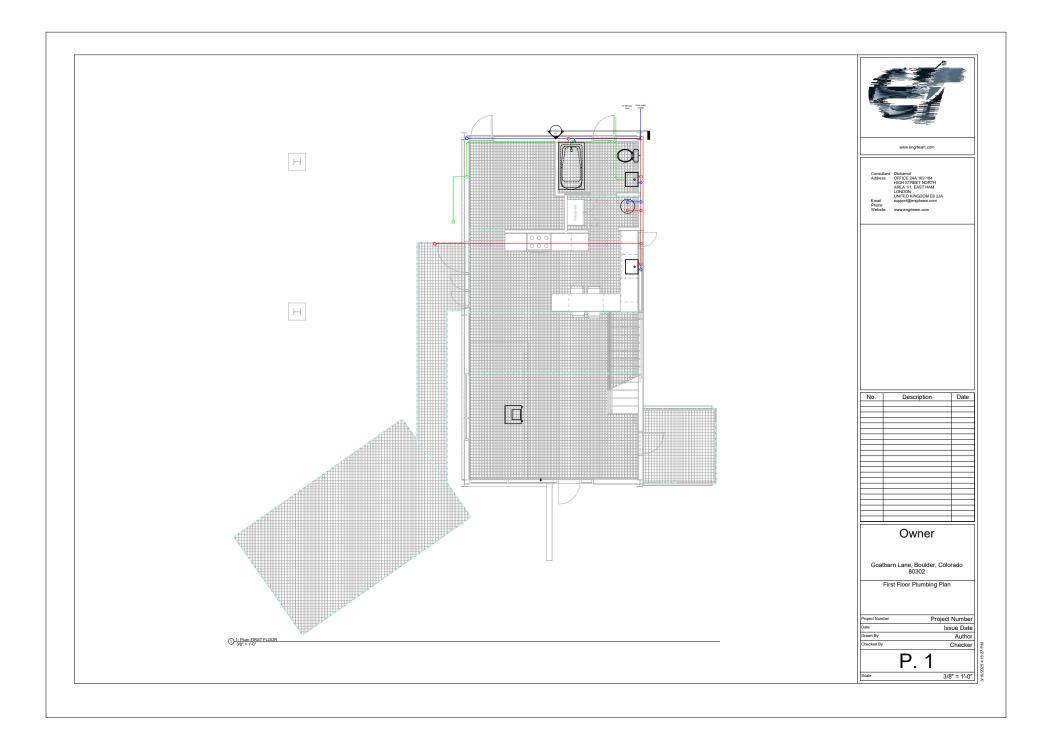
**HVAC Installation** 

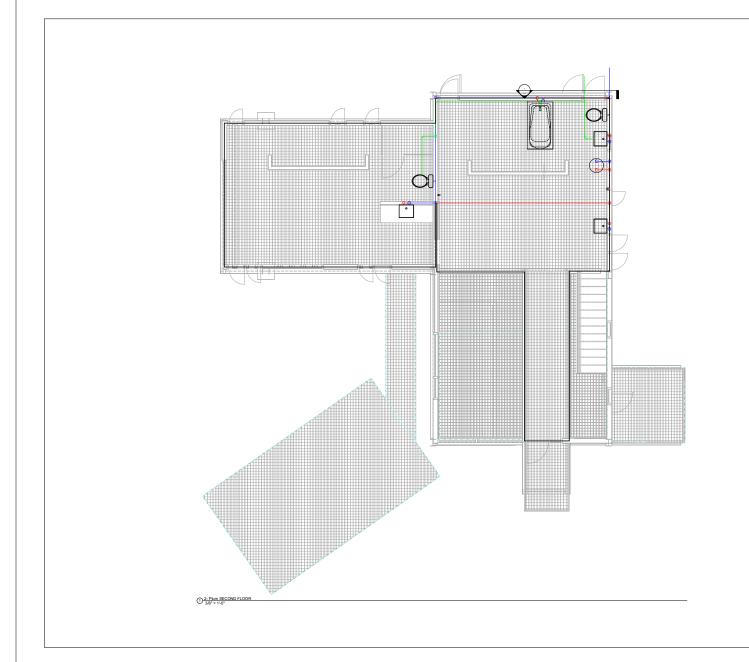
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H. 4

1/4" = 1'-0"









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No.	Description	Date
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# Owner

Goatbarn Lane, Boulder, Colorado 80302

Second Floor Plumbing Plan

Project Number	Project Number
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Checked By	Check

P. 2

2/0" = 4

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