ELECTRICAL LEGEND

RACEMAY CONCEALED IN CEILING CAVITY, SLAB, OR WALL.
RACEMAY HOMERIN TO PANEL, ONE ARROWHEAD PER CIRCUIT,

CROSS HATCH NEUTRAL CONDUCTOR. DOT INDIGATES SROUNDING CONDUCTOR AND SHALL HATCHES AFTER INJURAL CONDUCTOR REPRIL SHITCHED CONDUCTORS. NO CROSS HATCHES INDICATES 2 42 ANS AND 42 ANS SHADONS CONDUCTOR. NO LANGUAGE SHOULT HAVE AND THE SHOULT HAVE AND THE SHALL SHITCH SHOULT HAVE AND THE SHALL SHITCH HOUT HOUT 46° APP.

HALL VACANCY SENSOR SHITCH SINGLE POLE, MOUNT 46" AFF. DISCONDECT SWITCH, SIZE/POLES/FUSE/ENCLOSURE TYPE IF OTHER THAN NEMA 3R, MOUNT 48" AFF. "NF" INDICATES NON-FUSED TYPE (30/3/20/3R.)

DUPLEX RECEPTACLE DUPLEX RECEPTACLE - BOTTOM HALF SHITCHED DUPLEX RECEPTAGLE - FLOOR MOUNTED

> DID BY DECEDIAL B - 400 ND BALLT INTERDIGT DUPLEX RECEPTACLE - MEATHER PROOF AND SROUND FAULT INTERRUPT

SMOKE DETECTOR - HIRED IN SERIES COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR.

EXHAUST FAN MOTOR WITH LIGHT (J) JANCTION BOX, ABOVE CEILING.

Ø

Œн INCTION BOX HALL-MOINTED.

PANELBOARD, SURFACE-MOUNTED MOUNT AT 6'-O' TO TOP. UTILITY SERVICE METER

DOOR BELL.

CEILING FAN I PHASE, IZO VOLT, SINGLE POLE, 60HZ.

<u>GENERAL</u>

OUTLINE AND EXEMPTENT SHALL BE SHANNIN IN SELECTION OF THE ADMINISTRATION OF THE ADMINISTRATION OF THE PROPERTY OF THE ADMINISTRATION OF THE ADMINISTRATIO

EXPENSE TO CAMEN.

FURNISH AND INSTALL WIRNS FOR EQUIPMENT PURNISHED BY OTHERS, AS SHOWN ON DRAWINGS, COORDINATE WITH

OTHER TRADES OR DETAILS FOR INSTALLATION. THE TERM "WRING", AS USED HEREIN INVIVIOUS RUNNINGS AND

REQUIRED FOR THE RECORDS REVILLATION, OF THE ELECTRICAL FORCE, ALL PAYCHES SHALL BE OF THE SAME A. A PITES COMPLETED OF PARKE MEETS THE SECURIAL CALLINE IT RESERVED. THE RECORD HAS POSSES AND SHALL BE COMPLETED AND SHALL BE COMPLETED

LIGHTING FIXTURES

A 1867/ALL LONTING FIXTHED AND SECHI OIL THE ELECTRICAL DRAWLING. VERRY DAVID LOCATIONS OF MEMORY AND THE SECHI OF THE PROVINE REQUIRED ACCESSORES FOR CELLING TITES.

ALL RECESSOR LONGING FIXTHES SHALL BE LED.

IN MEMORY OF BLADS FIXTHESED OF FIXTHEE CHOSEN BY CASIONER.

E. ANALYSIS CREEDED LIGHT FIXTHESE SHALL BE LED.

E. ANALYSIS CREEDED LIGHT FIXTHESE SHALL BE LED. OF THOSPHONITHETICS FIXEN AND LARGELED TO

F. 2.0 CPM LEAKAGE AT 196 PA. (2016 VA ENERGY CODE) 196 LAMPS IN PERMANENT FIXTURES OR 196
PERMANENT FIXTURES SHALL BE USE HIGH EFFIC LAMPS. (2016 VA ENERGY CODE)

DISTRIBUTION EQUIPMENT

A. ALL PANELBOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS REQUIRED, IN STEEL CABINETS CODE GAUSE, NITH STEEL TRIM CONCEALED HINGES, DOORS AND FLUSH TYPE LOCKS, MANUFACTURER SHALL BE

CODE GAIGE, WITH STEEL THAT CORRECTLES HINGES DOORS AND TUBER THE LOCKS ANALYZED AND STEEL THAT CORRECTLES AND THE CONTRIVER SHAPE SOURCE OF THE CONTRIVER SHAPE SOURCE SOURCE TO CONTRIVER SHAPE SOURCE SHAPE SOURCE SHAPE SOURCE SHAPE AND STEEL ON THE BASIS OF LOCK AMERICES FER SOURCE SHAPE AND STEEL ON THE BASIS OF LOCK AMERICES FER SOURCE SHAPE SOURCE SOURCE SHAPE SO

CROSS-SCHOOL ALMAN, BESSES SALL, BE ARRANGED FOR ESSESSION PRIMED, DOCTROOL ALLANDA MILITARY AND ALLANDA MILITARY

E. DISCONNECT SWI EGUIVALENT.

DEVICES

DUPLEX RECEPTACLES FOR MALL AND FLOOR CONVENENCE OUTLETS SHALL BE 2 POLE, 5 WIRE, GROUNDED, IS AMPERE, NEMA CONFIGURATION 5-20R, COLOR BY ARCHITECT. ALL RECEPTACLES S DUPLEX 6FI RECEPTA SHALL BE TAMPER RESISTANT. ACLE SHALL BE 2 POLE, BINRE, GROUNDED, 20 AMPERE, NEMA CONFIGURATION 5-20R, COLOR BY

ASCHITECT, SETTINGS AND PARTY SHYDOUS SHALL BE SPICIFICATIVE ROUGH, COLOR BY ARCHITECT, DEVICE SHALL BE SHOUTHER DEBRIE OFFOND COMPANY FROM HER HELT REPORT SHALL BE SHOUTH DEBRIE OFFOND AND INSPOSED DETECTOR SHOULD BE INSTALLED ACCORDING TO SHEAR 12. ACCURATE AND ACCURATE ASSOCIATION AND ACCURATE AND ACCURATE AND ACCURATE ACCURAT

CONDUCTORS

ELECTRICAL ABBREVIATIONS

A ALL SHAWL CARCIT CONDUCTORS SHALL BE COPTER UALES OTHERWISE HOTED, ALL 16 AND PIRE AND LARGER SHALL BE ERRACKED.

5. ALL 10 AND PIRE AND SHALLES SHALL BE CONTROL UALES.

6. ALL 10 AND PIRE AND SHALLES SHALL BE CONTROL UALES.

6. ALL 10 AND PIRE AND CARCIT SHALL BE USED BY THE AND CARCIT SHALL BE USED SHALL

NONMETALLIC CABLE (NM):

A TYPE INI CABLE SHALL BE PERMITTED PER NEPA-10 ARTICLE 534.10. ALL OTHER LOCATIONS SHALL USE TYPE MC AS A SUBSTITUTE FOR CONDUIT.

OUTLET JUNCTION AND PULL BOXES

A. ALL CUTLET BOXES SHALL BE PLASTIC RATED FOR RESIDENTIAL USE.

B. CUTLET BOXES FOR RECEPTACLES AND SYSTORES IN DRY HALL PARTITION SHALL BE 4" SQUARE, BY I-I/2" MINIMM DEPTH AND SHALL BE 1" FITTED WITH DEVICE COVERS AND DEPTH BOUNT TO THE DRY HALL THICKNESS.

C. SECTIONAL BOXES ARE NOT ACCEPTABLE.
D. SET BOXES SOLARE AND TRUE WITH BUILDING FINISH. ERECT HALL AND SHITCH OUTLETS IN ADVANCE OF FURRING AND D. BIT IDEAS SOLATE AND THE HIT BULLINGS FIRST, SIZE FALL AND MICE COLLETS IN AVAILAGE OF FIRST SAME.

E. LOCATION ROLLATED FOR LOCAL PLAL SWITCHES ARE SIBLEDT TO MODIFICATIONS. AT OR INARE DOORS INSTALL SWITCH, IN SIZE OPPOSITE HINGE, VERSITY FIRAL DOOR HINGE LOCATION IN PIELD PRIOR TO SWITCH COLLET REVALLATION.

F. LOCATION HOLCATED FOR LOCAL WILL SWITCHES, CONTROLLINGS, DEPRESENCE OF BUTTONS, SIZE FALLED, ALT SMILECT TO

MODIFICATIONS.
HEIGHTS OF CUTLET FROM FINSHED PLOOR TO CENTERLINE OF CUTLETS, AS PER ELECTRICAL DRAWINGS. EXCEPTIONS. AT JUNCTION OF DIFFERENT WALL MATERIALS, MOLDING OR BREAK IN WALL SURFACE IN VIOLATION OF CODE REGUIREMENTS. GROUNDING

A. GROUND ALL CONDUTS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYTING METAL, PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR LOCAL CODES THAT ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR LOCAL CODES THAT ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR LOCAL CODES THAT

SLEEVES

ALL PREFINATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF OR SHOULD HAVE THE REQUISH HAVE, THE PREVENTION OF THE PRODUCT HAVE THE ROOM OF OR THE PRODUCT HAVE THE ROOM OF THE PRODUCT HAVE THE ROOM OF THE PRODUCT HAVE THE PRODUCT HAV

HVAC CONTROLS

A. MECHANICAL CONTRACTOR SHALL PLRINSH AND INSTALL CONTROL HIRINS INCLUDING CONDUITS, RELAYS, TIME CLOCK, CONTROL TRANSPORMENS, ETC., FORALL HAVAC EQUIPMENT, IALLESS OTHERWISE NOTED. B. ELECTRICAL CONTRACTOR SHALL BURNSH HAD INSTALL DRUY POWER NIEINS MITH DISCONDECTS, AS SHOWN IN ELECTRICAL

TEST AND GUARANTEES

A. UPON COMPLETION OF ALL ELECTRICAL NORS, CONTRACTOR SHALL TEST FOR GROUNDS AND SHORTS, TO ENSURE PROPER PREVATION OF ELECTRICAL EMPIRICAL ACCEPTANCE BY ORIER OF ALL MOREVANCHIP AND MATERIALS FURNISHED. 6. SHOCKE DEFECTION TEST SHOULD BE DONE IN ACCEPTANCE BY ORIER OF ALL MOREVANCHIP AND MATERIALS FURNISHED. 6. SHOCKE DEFECTION TEST SHOULD BE DONE IN ACCEPTANCE BY ORIENTATION.

AIC AMPERES INTERUPTING CURRENT

AFF/ARF ABOVE FINSHED FLOOR ABOVE RAISED FLOOR

AMPERE TRIP All AMPERE FRAME

CIPCUT REFACES CKT CIRCUIT

EC EMPTY CONDUIT ELECTRICAL METALLIC TUBIN EX EXISTING

GROUND PAULT CIRCUIT INTERUPTER

JUNCTION BOX

THOUSAND GIRCULAR MILLS MC METAL-CLAD CARLE

MCB MAIN GIRQUIT PRETAKTS MH METAL HALIDE

MLO MAIN LUG ONLY NAVELED E

PH PHASE PVG POLYVINYL CHLORIDE CONDU

RECP RECEPTACLE R66 RIGID GALVANZED STEEL

9YM SYMMETRICAL

VOLT VOLT-AMPERE M MRE OR MATT

ELECTRICAL DRAWING LIST ELECTRICAL GENERAL NOTES, SYMBOLS, & ABBREVIATIONS

ELECTRICAL BASEMENT FLOOR PLAN PLECTRICAL PIRST PLOOR PLAN

ELECTRICAL SECOND FLOOR PLAN ESCO ELECTRICAL GROUNDING DETAILS

Floo

Hio2

NP NEATHERPROOF XFMR TRANSFORMER CL6 CELING GROUND FAULT GIRCUIT INTERRUPTER(GPGI).

A-X A IS THE NAME OF ELECTRICAL PANEL BOARD AND X IS THE NAMER OF CIRCUIT.

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Consultant Engr Al Amin
Address OFFICE 24A 182-184
HIGH STREET NORTH
AREA 1/1, EAST HAM
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UNITED KINGDOM E8 2JA

No.	Description	Date
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		_

Owner

Ethel Ave. Custom Home

Electrical General Note

Project Number	174
Date	Issue Date
Drawn By	Author
Checked By	Checker

E0001

1 1/2" = 1'-0"

LIGHTING FIXTURE SCHEDULE								
904 8 01.	FIXTURE DESCRIPTION	MOUNTING	VOLTS	NPUT MATTS	MANUFACTURER	PART #	пем #	REMARK
Ø	55" LED DOWNLIGHT, MHITE PANTED FLANGE, O-IOV DIMMING, 65 DEG BEAM SPREAD	RECESS CELING	120	12.5	PROSRESS LIGHTING FIXTURES	-	P810001-0 28-30K	OR EQUIVALENT APPROVED BY OWNER
a.	KEYLESS CELLING HOUNTED EXPOSED LED BULB	SURFACE CELLING	120		SPECIFIED BY OWNER FIXTURE ALLOWANCE	-		OR EQUIVALENT APPROVED BY OWNER
	EXTERIOR WALL MOUNT LED BULB	SURFACE WALL	120	17	PROSRESS LIGHTING FIXTURES	L0434623	P5674-31	OR EQUIVALENT APPROVED BY OWNER
¢	CLOSE TO CEILING, BONL GLASS, LED LAMPS SARPACE NALL DO BO PROGRESS LIGHTING FIXTURES LOATING PROGRESS CONTROL ON THE CONTROL OF CONTROL ON THE CONTROL ON T						OR EQUIVALENT APPROVED BY OWNER	
Ø	PENDANT FIXTURE, LED LAMPS SMFACE 120 100 PROGRESS LIGHTING FIXTURES L418465 P0025-0 ON EQUIVALENT APPROVED ON OWNER.						APPROVED BY	
画	THE LIGHT FIXTURE - UNDER CASINET LED LIGHT SUPPLIED IN 1 PROPRESS LIGHTING FIXTURES LOSS4884 PLOCOCOO. OR EQUIVALENT APPROVED BY COMPAR.							
I.A.L. BILD PROMER LED. LIGHARDS SHALL BE SEPROTTED IN ACCORDANCE HITH REC. ARTICLE 60. 2. SPECIAL BILD STATEMENT SHALL BE SERVED AS A 48-96 or DISSON ACCORDANCE HITH REC. ARTICLE 60. 2. SPECIAL BILD STATEMENT SHALL BE SERVED A 6-84-96 or DISSON ACCORDANCE SHALL ARTICLE 60. 3. RECLISION EVALUATION SHALL BE SERVED A 6-84-96 or DISSON ACCORDANCE SHALL BE ALL BATED FIRE ANDED HOLDING ON PROVIDED HITH PIRE PARTED TRATTION ASSESSED, ACCORDANCE SHALL BE ALL BATED FIRE AND EXCELLENCE S								

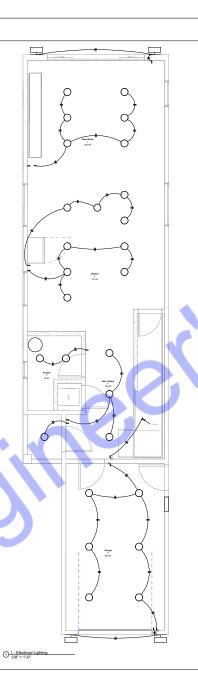
LIGHT	SURFACE CELING	120	7	PROGRESS LIGHTING PIXTURES	L0364834	P100000- 028-30	OR EGUIVALENT APPROVED BY OWNER	
LL IN SUPPORTED IN ACCORDANCE WITH NEG ARTICLE 410.								
	AS A BASIS OF DESIGN, ARCHITECT/OWNER SHALL APPROVE EXACT LIGHTING FIXTURE PACKAGE PRIOR TO BID SUBMITTAL.							
RATED CELLING SHALL BE A IL RATED FIRE RATED HOUSING OR PROVIDED WITH FIRE RATED TENTING ASSEMBLY AROUND								
CHIEGTURAL FOR RATED CEILING AREAS.								

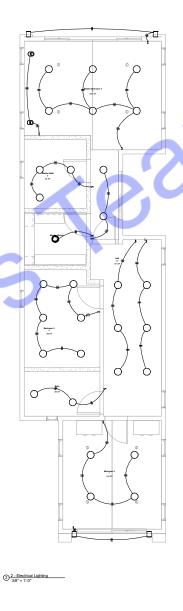
This Electrical Lighting Plan has been developed in strict adherence to all applicable and current codes, standards, and regulations enforced by the City of Los Angeles and the State of California as of January 1, 2023. The following codes and regulations have been thoroughly reviewed and applied to ensure full compliance:

- 1. 2022 California Electrical Code (CEC) Title 24, Part 3 Based on the 2020 National Electrical Code (NEC), this code governs all electrical installations, ensuring safety and reliability.
- 2. 2022 California Building Code (CBC) Title 24, Part 2 This code provides comprehensive requirements for building construction, including structural, fire safety, and accessibility standards.
- 2022 California Energy Code Title 24, Part 6
 This code sets forth energy efficiency standards for residential and nonresidential buildings, including requirements for lighting power densities, controls, and daylighting.
- 4. 2022 California Green Building Standards Code (CALGreen) - Title 24, Part 11 This code establishes mandatory green building measures, including provisions for energy efficiency, water conservation, and indoor environmental quality.
- 5. 2023 City of Los Angeles Building Code (LABC) This code includes local amendments to the CBC, addressing specific requirements and standards applicable within the City of Los Angeles.
- 6. 2023 City of Los Angeles Residential Code (LARC) This code incorporates local amendments to the California Residential Code, governing the construction and alteration of residential buildings within the city.
- 7. 2023 City of Los Angeles Green Building Code (LAGBC) This code supplements CALGreen with additional local requirements aimed at enhancing environmental performance and sustainability in building projects.
- 2023 City of Los Angeles Existing Building Code (LAEBC)
 This code provides regulations for the repair, alteration, change of occupancy, addition, and relocation of existing buildings within the city.

All lighting fixtures, controls, wiring methods, and related components specified in this plan are selected and designed to meet or exceed the requirements set forth in the aforementioned codes. This includes compliance with energy efficiency standards, safety protocols, and sustainability measures.

This Electrical Lighting Plan is intended to ensure a safe, efficient, and code-compliant electrical system for the property located at 4708 Ethel Avenue, Sherman Oaks, CA 91423.









No.	Description	Date
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Owner

Ethel Ave. Custom Home

Electrical Lighting Plan

Issue Date Author Checker

E0002

1. Code Compliance:

This Electrical Power Plan has been developed in full compliance with the following codes and standards:

2022 California Electrical Code (CEC) - Part 3 of Title 24, California Code of Regulations, based on the 2020 National Electrical Code (NEC), effective statewide from January 1, 2023.

2023 Los Angeles County Electrical Code - Title 27, incorporating local amendments to the 2022 CEC, effective January 1, 2023.

 Local Amendments:
 The plan adheres to specific Los Angeles County amendments, including:

Conductor Material (Article 310.106(B)): Copper conductors are used for wiring No. 6 and smaller in all installations. Aluminum wiring is considered for feeder lines only, subject to approval by the Building Official.

Continuous Inspection of Aluminum Wiring (Article 310.121): Aluminum conductors No. 6 or smaller used for branch circuits require continuous inspection by an independent testing agency approved by the Building Official.

Photovoltaic Systems Disconnect (Article 690.13(A)): The PV disconnecting means is installed at a readily accessible location on the exterior of the building, within 3 feet of the

3. Energy Efficiency Standards:

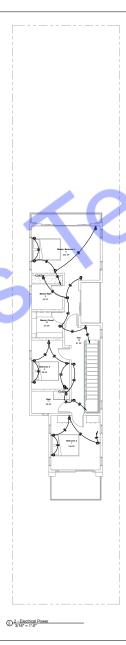
The design complies with the 2022 California Energy Code (Title 24, Part 6), including requirements for multilevel lighting controls in applicable areas.

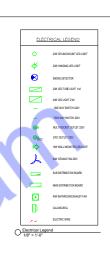
4. Product Approvals:

All electrical components and systems specified in this plan are approved under the California, USA Product Approval Codes, ensuring compliance with state and local regulations.

5. Future Code Updates: While the 2025 California Electrical Code is scheduled for publication on July 1, 2025, with an effective date of January 1, 2026, this plan is based on codes currently in effect as of June 2025. Should any updates become applicable prior to project completion, necessary adjustments will be made to maintain compliance.









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Email Phone	support@engrteam.com
Website	www.engrteam.com

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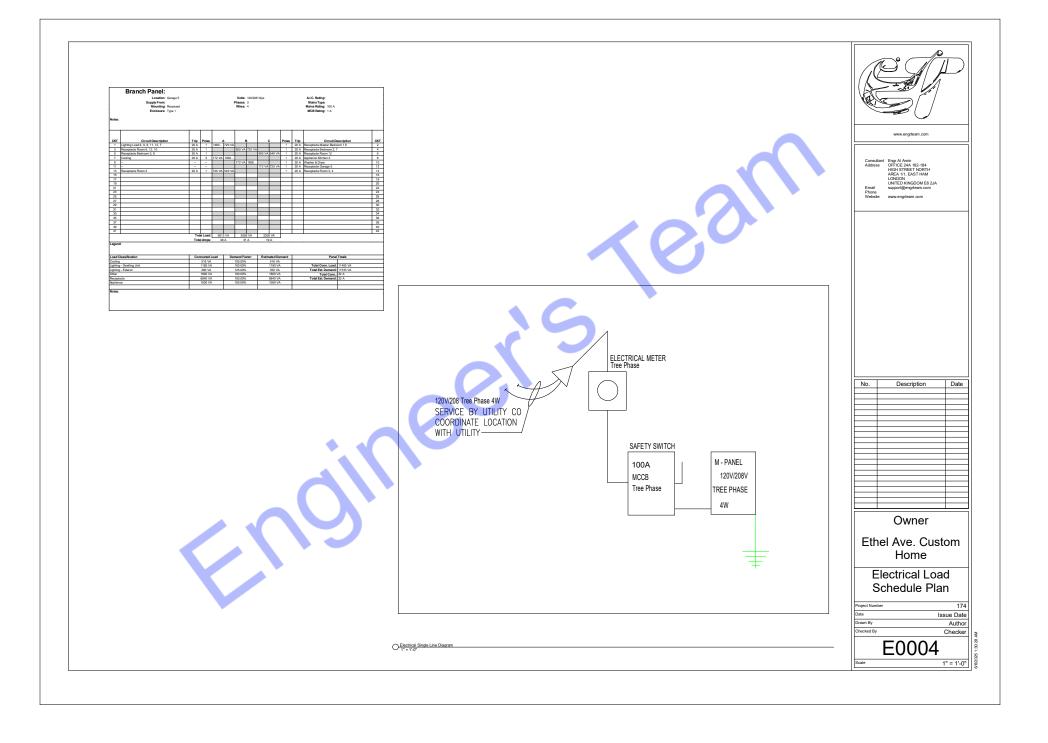
Owner

Ethel Ave. Custom Home

Electrical Power Plan

Project Number	17
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E0003



GENERAL NOTES:

A LISTED INTERSYSTEM BONDING TERMINATION PROVIDING THE REQUIRED NUMBER OF TERMINALS (MINIMUM OF THREE) FOR CONNECTING OTHER

KEY NOTES: ①

- ALT YNLESS. (*)

 AL HERAL CORPITE BALCORIO ANY
 SERVILE BYTHE A

 ALL HERAL CORPITE BALCORIO ANY

 BURGHER AT EACH ED.

 ROUTE BROADER BALL BYTHE A

 NO. ELECTRODE SHALL BE IN HE FORM

 OF A DOO'S VIC CORPIE LOUD

 ORGUND NO LOUD AT LIAME 2" OFF THE

 SOUGHER HER SHALL BY THE FEBRMA BOTTON OF A CONCRETE FEOTING.
 SECURE THE GROUND FOOD TO THE REBAR
 MITH STEEL TIE MRAPS, IF THE REBAR
 BEING USED IN THE FOOTING IS SHALLER
 THAN 1/2" (M4), THEN USE 20" OF BARE
- SOLID N4 COPPER WIRE IN PLACE OF THE GROUND ROD. IN REMODE, PROJECTS THAT WILL NOT HAVE NEW FOOTINGS INSTALLED, THIS SUPPLEMENTAL LECTRODE SHALL BE PER NOTE N4 BELOW OR OTHER ELECTRODE PER NEC
- BELOW OK OTHER ELECTRODE FER NEC-250-52,
 FOR CONNECTION TO COLD HATER MAIN, CONNECT MITHIN 5 FT, OF CONTACT OF EARTH.

 P STRUCTURAL STEEL MEMBER OR
- REBARS ARE AVAILABLE, BOND IT TO THE SERVICE USING A UL LISTED IRREVERSIBLE CLAMP OR HELDING LUG.
- PROVIDE A INTERSYSTEM BONDING TERMINATION PER NEC 250,94.
- INTERSYSTEM BONCHIO TERMINATION
 SHALL:
 BJ. BE ACCESSIBLE FOR CONNECTION
 AND INSPECTION.
 6.2. CONSIST OF A SET OF TERMINALS
 (LISTED AS GROUNDING AND BONDING EQUIPMENT) WITH THE CAPACITY OF NOT LESS THAN THREE INTERSYSTEM BONDING
- LESS THAN THREE INTERSYSTEM BONDING-CONDUCTORS,
 6-3. BE SECURELY MOUNTED AND
 BLECTRICALLY CONNECTED TO SERVICE
 BURNPART, METER BILLOSURE, OR
 EXPOSED NON HETALLIC SERVICE
 RACEWAY, OR BE MOUNTED ON ONE OF
 HESE BILLOSURES AND BE CONNECTED
 TO THE BILLOSURE OR GROANDING
- ELECTRODE CARDICTOR WITH A MINIMAM
 46 CU CARDICTOR.
 6.4. BE SECURELY MOUNTED TO THE
 BULLDING'D DECONNECTION HEAVIS, OR
 BE MOUNTED AT THE DISCONNECTION
 HEAVIS AND BE CONNECTED TO THE
 METIALLY BINLOSURE OR SPOUNDING
 BECKINGOE CONDUCTOR WITH A MINIMAM
 46 CU CARDICTOR.
- SO CONDUCTOR.
 ALL BRANCH CIRCUIT AND FEEDER
 CONDUITS ARE TO HAVE AN INSULATED
 EQUIPMENT GROUNDING CONDUCTOR
 REGARDLESS OF THE CONDUIT MATERIAL.
 HEN THE SERVICE CONSISTS OF MULTIPLE
- CONDUCTOR FROM THE MAIN GROUNDING ELECTRODE CONDUCTOR TO BACH DISCONNECTION BEADS BY THE TAY PARENT ON THE LARGEST SERVICE CONDUCTOR IN THAT SERVICE DISCONNECT ENLOSURE.

 40 COPPER GROUNDING ELECTRODE CONDUCTOR.

 INVALIDATION OF THE TAY ON THE SERVICE CONDUCTOR.
- IO. INSTALL % GU TO THO 5/8'x 8' MIN. GROUND RODS AS SHOWN. 94 COPPER GROUNDING ELECTRODE

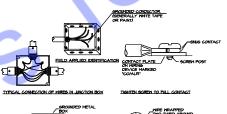


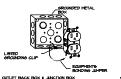
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Engr Al Amin OFFICE 24A 182-184 HIGH STREET NORTH AREA 1/1, EAST HAM LONDON UNITED KINGDOM E8 2JA

PANEL-A, B (T/a) 9 9 900 METAL UNDERGROUND WATER PIPE







STRIP INSULATION AND WRAP WIRE

BONDING THE KNOCKOUTS

BOUNDING DETAILS

No.	Description	Date
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Owner

Ethel Ave. Custom Home

Electrical Installation Details

Issue Date Author Checker

E0005

Electrical Installation
1 1/2" = 1'-0"

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL CONFORM TO VRC 2018, VECC 2018, AND LOCAL RULES AND REGULATIONS.

2 CONTRACTOR SHALL SETAM AND NYTOR HALL SHEARTS FEEL AND TAKES AND OWNERS AND SHEARTS. AND PAYOR SHOULD RESIDENCE AND FEEL PRINCIPLY HAVE ASSESSED, AND PAYOR ASSESSED AND THE AND ARREST ARREST AND ARREST ARREST AND ARREST ARREST AND ARREST ARREST AND ARREST AND ARREST AND ARREST ARREST AND ARREST ARREST AND ARREST AND ARREST AND ARREST ARREST AND ARREST ARREST AND AR

3. MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ENGINEER.

4. ALL MATERIAL AND EQUIPMENT INDICATED ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS SHALL BE PROVIDED BY THE CONTRACTOR NEW AND THE BEST PRODUCTS OF REPUTABLE MANUFACTURERS AND SHALL BE IN NEW CONDITION AT ACCEPTANCE OF WORK.

S THS CONTRACTOR SHALL QUARANTEE ALL MATERIALS, LABOR, AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE, COMPRESSORS SHALL HAVE A FULL FINE-YEAR WARRANTY. CONTRACTOR SHALL PAY FOR AW REPAIRS OR REPLACEMENTS CAUGED BY DEFECTIVE WORMANSHIP OR FAILTY MATERIALS AS CONSTRUED FERRIS WITHIN THE PRISID COVERED BY THE QUARANTEE.

8. SCAFFOLDING, RIGGING, AND HOISTING UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISHALL SCAFFOLDING, RIGGING, HOISTING, AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ANY EQUIPMENT AND APPARATUS FURNISHED, AND REMOVAL OF SAME FROM PREMISES WHEN AND IN COMES REFOLISHED.

LOCATION OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY THE DRAWINGS. DETERMINE EXACT LOCATIONS ON THE JOB SITE, SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF OTHER CONTRACTORS.

8. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPES, DUCTS, ETC., TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANUER, FOLLOW EQUIPMENT MANUFACTURERS DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT BEFORE 9. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ROOF PENETRATIONS.

10. UNLESS OTHERWISE NOTED, ALL SPECIFIED EQUIPMENT IS LESS THAN 200 POUNDS. SEE ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS OF ALL EQUIPMENT GREATER THAN 200 LBS.

11. INSTALL EACH ITEM OF EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

12. INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER, USING ONLY WORKMEN THOROUGHLY QUALIFIED IN THE TRADE OF DUTIES THEY ARE TO PERFORM. ROUGH WORK WILL BE REJECTED.

13. CUTTING AND PATCHING SHALL BE DONE BY THE APPROPRIATE TRADE UNLESS OTHERWISE RECURRED BY TRADE CUSTOM OR SPECIFIED UNDER ANOTHER SECTIONS O'THE SECRETICATIONS COMPRACTOR SHALL FURNISH SECTIONS THE SECRETICATIONS CONTRACTOR SHALL FURNISH SECTIONS OF THE SECRETICATIONS CHASES, ETC. REQUIRED. CONTRACTOR SHALES, ETC. RETURNED AND SECRETICATION OF PROTECTION AND REPORTS AT RESPECT.

14. DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER AS DIRECTED BY 15. MAINTAIN CLEAN WORK AREA AT ALL TIMES DURING CONSTRUCTION, AFTER COMPLETING INSTALLATIONS OF DUCTWORK, CONTRACTOR SHALL CLEAN ENTIRE SYSTEM OF RUBBISH, PLASTER, DIRT, AND ANY OTHER DEBRIS.

16. TEST ALL SYSTEMS, SYSTEMS SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED, REPORT ANY DEFICIENCIES TO ARCHITECT.

SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE HVAC LAYOUT.

2 MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF MECHANICAL EQUIPMENT, DUCTWORK ROUTING, LOCATION OF SYSTEM

INSTALLATION, DUE TO DEVIATIONS FROM THE MECHANICAL EQUIPMENTS "BASIS OF DESIGN" OR "PROTOTYPE" ELECTRICAL DATA, SHALL BE AT A COST TO THE MECHANICAL CONTRACTOR.

EQUIPMENT 1. GENERAL

A. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.

2. AIR DEVICES:

A. STEEL CONSTRUCTION WITH ENAMEL FINISH WHITE.

B. ACCEPTABLE MANUFACTURERS: HARTY & COOLEY, TITUS, PRICE, NAILOR, OR EQUIVALENT APPROVED BY NVR, INC.

3. FANS:

A. EACH FAN SHALL BE ANCA CERTIFIED AND LABELED. B. EACH FAN SHALL BE ULLISTED AND LABELED.

4. AIR HANDLING UNITS:

A. PACKAGED, FACTORY ASSEMBLED, PRE-WIRED AND PRE-PIPED WITH MICROPROCESSOR CONTROL SYSTEM AND ALL OPTIONS AS SCHEDULED. ULLISTED. B. ACCEPTABLE MANUFACTURERS: GOODMAN OR EQUIVALENT APPROVED BY NAR, INC.

5. ACCESS PANELS: PROVIDE ACCESS PANELS IN DUCTWORK IN A LOCATION TO SERVICE DAMPERS. ACCESS PANELS SHALL BE OF THE INSULATED DOOR TYP

PIPING

1. CONDENSATE DRAIN PIPING: TYPE SCHEDULE 40 PVC PIPING WITH GLUE TYPE FITTINGS. SLOPE ALL CONDENSATE PIPING TOWARDS DRAIN AT 18" PER FOOT.

2 REPRODUCT FRIEND. THE ACTIVITY CONFIDENCE CONFIDENCE CONFIDENCE ACTIVITY CONFIDENCE

3. IDENTIFICATION: ALL PIPING SHALL BE IDENTIFIED BY NAME AND DIRECTIONAL FLOW ARROWS IN ACCORDANCE WITH A SME AN 4. FINAL DRAIN AND REFRIGERANT LINES SHALL NOT BLOCK SERVICE ACCESS TO FAN OR AIR FILTER REMOVAL AT THE AHJ.

1. PROVIDE TRAPS FOR CONDENSATE DRAIN LINES AT ALL HVAC EQUIPMENT THAT IS NOT INTERNALLY TRA

INSULATION

INSULATION SHALL BE SLIPPED OVER THE TUBING AS FULL CYLINDER, INSULATION OF PIPING SHALL BE VAPOR TIGHT AND CONTINUOUS THROUGH HANGERS, WALLS, ETC. PROVIDE GALVANZED SHEET WETAL SADDLES AT HANGERS.

B. REFRIGERANT LIQUID AND HOT GAS PIPING WITHIN THE BUILDING: INSULATE WITH 1/2" THOX ARMAFLEX FIRE RATED INSULATION OR APPROVED EQUAL 5. INSULATION OF DUCTWORK AND PIPING PASSING THROUGH NON-RATED WALLS SHALL BE CONTINUOUS THROUGH THE WALL PENETRATION.

6. WHEREVER PIPES, DUCTIVIORS OR OTHER ITEMS PASS THROUGH FIRE RATED WALLS AND FLOORS, THE CONTRACTOR SHALL ADEQUATELY FIRE STOP THE SPACE BETWEEN THE ITEMS AND THE MASONRY OR THE SPACE SETWEEN THE ITEM AND SLEEVE. FIRE STOP SHALL BE A NON-COMBUSTIBLE, NON-MELTING, APPROVED MATERIAL. DUCTWORK

3. INSTALL ALL DUCTWORK ABOVE CEILING AND HOLD TIGHT TO UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE INDICATED.

4. ALL ROUND DUCTWORK RUNDUTS TO A SINGLE CEILING DIFFUSER SHALL BE SAME SIZE AS DIFFUSER NECK.

5. INSTALL OUTSIDE AIR INTAKES, INCLUDING CONCENTRIC VENTS, A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT.

6. INSTALL CEILING AIR DEVICES AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON PLAN. COORDINATE LOCATION WITH LIGHT FIXTURES AND SPRINKLER HEADS.

7. CHANGES TO DUCT DUE TO FIELD CONDITIONS SHALL BE MADE ONLY IF THE DUCT SIZE FREE AREA IS MAINTAINED AND SHALL BE SUBMITTED TO ENGINEER FOR APPRIVAL

8. FEXILE CONNECTORS PROVIDE REVISILE CONNECTORS AT THE INLET AND OUTLET CONNECTION FOR EACH FAIN AND AIR HANDLING UNIT. EACH FLEXILE, CONNECTOR SHALL ALLOW YOU'VE REMOVEMENT AND SHALL BE CONNECTED AIR THOM! REPOVIDE RECOVERED CONTED GLASS FASION ANTERNAL, MANNE SHALL PROVIDE THE CONNECTION TO INSIGHT AND CONTENT OF SHALL PROVIDE AIR CONNECTION TO INSIGHT AND CONTENT OF SHALL PROVIDE AIR CONNECTION TO INSIGHT AND CONTENT OF SHALL PROVIDE AIR CONNECTION TO INSIGHT AND CONTENT OF SHALL PROVIDE AIR CONNECTION TO INSIGHT AND CONTENT OF SHALL PROVIDE AIR CONNECTION TO INSIGHT AND CONTENT OF SHALL PROVIDE AIR CONNECTION TO INSIGHT AND CONNE

A ALL EXPOSED DUCT JOINTS SHALL BE SEALED WITH HARDCAST 601.
B. LEAKAGE TESTING FOR ALL DUCTWORK SHALL BE BY PHYSICAL SENSATION AND SHALL BE PERFORMED IN THE PRESENCE OF THE OWNERS. REPRESENTATIVE.

C. PERFORM ALL TESTING AFTER THE SEALS HAVE CURED COMPLETELY AND BEFORE COVERING WITH INSULATION OR CONCEALING IN MASON
D. ALL DUCT JOINTS ABOVE CEILING SHALL BE SEALED WITH MASTIC.

LEAKAGE TESTING

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TEMPERATURE CONTROL

1. Thermostationations brown are approximate and shall be coordinated with architectural drawings bount thermostats 4-0 arove passed from the label of the processing force of the processing of

THE AIR LEAKAGE OF THE BUILDING SHALL BE TESTED PER 2018 VIR GINIA ENER LEAKAGE RATE OF 5.0 AIR CHANGES PER HOUR.

REFRIGERANT PIPING INSULATION

1 APPLICATION

A INSULATION SHALL BE A FLEXIBLE, CLO SED-CELL ELASTOMERIC PIPE INSULATION AP ARMAPLEX, AC ACCOFLEX OR SIMILAR. ADHESIVE SHALL BE ARMAPLEX 20, 520 BLACK OR 20 BLV ADHESIVE OR SIMILAR. R3 INSULATION MINIMUM. THE INSULATION MUST CONFORM TO ASTMC534 GRADE 1

ARMANEAX 200, 520 BLACK AN 200 BER MINISTRUM.
TYPE I.

B. ALL LIDUID AND SUCTION LINES SHALL BE INSULATED CONTINUOUSLY FROM A POINT 6" INSIDE THE DISPLAY CASE TO THE SUCTION SERVICE VALVE AT THE

C.A.L.LOW TERPETATRELINES (+10°F AND BELOW) SHALL BE INSULATED WITH A MINIMANOF 1" WALL THOOKESS.

D.A.L. MEDIUM AND HIGH TEMPERATURE LINES (+10°F) SHALL BE INSULATED WITH A MINIMANOF 1" WALL THOOKESS.

E. HEAT RECLAMINES SHALL BE INSULATED FROM THE COMDENSING ON TO TO THE HEAT RECLAMINES WHAT BE INSULATED FROM THE COMMENSION OF TO THE HEAT PECLAMINES WHAT BE INSULATED FROM THE COMMENSION OF TO THE HEAT PECLAMINES WHAT BE WITHOUT SHALL BE INSULATED FROM THE COMMENSION OF TO THE HEAT PECLAMINES WHAT BE WITHOUT SHALL BE INSULATED FROM THE COMMENSION OF TO THE HEAT PECLAMINES WHAT BE WITHOUT SHALL BE INSULATED FROM THE COMMENSION OF THE PECLAMINES WHAT BE WITHOUT SHALL BE WITHOUT

A ALL REFRIGERANT COPPER LINES MUST BE FREE OF EXTRANEOUS CHEMICALS SUCH AS CORROSIVE CLEANERS OR BUILDING MATERIALS' DUST PRIOR TO THE INSTALLATION OF THE INSULATION THE INSULATION MUST BE CLEAN AND DRY PRIOR TO INSTALLATION.

B. REPRODUCTION THE ROBLET HE RESIDENT HE COMPRESSED.

E. ALL INSLLATION EXPOSED TO SUNLIGHT OR INSTALLED OUTDOORS SHALL BE PROTECTED WITH TWO COATS OF WB ARMAFLEX FINISH OR WEATHER REPRIETANT COATING.

SIA REGISTER UP OR OVAL RIGID WALL STACK FLOOR REGISTER CEILING REGISTER OPTIONAL SIA REGISTER UP OPTIONAL ELOOR REGISTER OPTIONAL CEILING REGISTER TRANSFER (COMBUSTION)
AIR GRILLE

LSW OR HSW RIA GRILLE TWO WAY HSW REGISTER OR LSW REGISTER BACK FLOW DAMPER

R REFRIGERANT PIPING

AITERNATE
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MECHANICAL LEGEND **Ø** EXHAURT FAN BAROMETRIC OR BYPASS DAMPER LIGHT / EXHAUST FAN ZD-# MOTOR OPERATED ZONE DAMPER RETURN DUCT SECTIONS
SUPPLY DUCT SECTIONS DISTRIBUTION BOX RECTANGULAR METAL DUCTWORK INSULATED RECTANGULAR DUCTWORK ROUND METAL DUCTWORK B FLEX DUCTWORK INSULATED RIA FLEX DUCTWORN RIGID & FLEX SUPPLY DUCT



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Description Date

Owner

Ethel Ave. Custom Home

Mechanical General Note

roject Number 174 Issue Date Author Checker

H0001

1 1/2" = 1'-0"

Mechanical General Note
1 1/2" = 1'-0"

This HVAC Layout Plan has been developed in strict adherence to the latest applicable codes, regulations, and standards governing mechanical systems in California, USA, specifically for the project located at 4708 Ethel Avenue, Sherman Oaks, CA 91423. The design ensures compliance with the following:

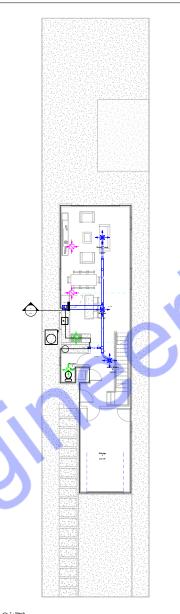
- 2025 California Mechanical Code (CMC) Title 24, Part 4 Incorporates updated provisions for mechanical system design, installation, and maintenance, ensuring safety and efficiency in HVAC systems.
- 2025 California Energy Code Title 24, Part 6
 Emphasizes energy efficiency, including updated HVAC
 efficiency standards, ventilation requirements, and the
 promotion of heat pump technology for space conditioning.
- 2025 California Green Building Standards Code (CALGreen) – Title 24, Part 11 Mandates sustainable building practices, including requirements for indoor air quality, energy efficiency, and the use of low-emission materials in HVAC systems.
- ASHRAE Standard 90.1 Energy Standard for Buildings Except Low-Rise Residential Buildings Provides minimum requirements for energy-efficient designs for buildings, focusing on HVAC systems, lighting, and building envelope.
- Local Ordinances and Regulations
 Ensures compliance with all applicable local codes and regulations specific to the City of Los Angeles and the Sherman Oaks neighborhood.

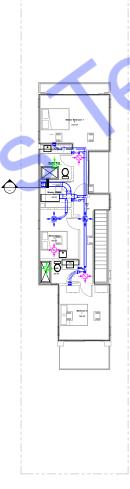
Product Approvals:

All HVAC equipment and components specified in this plan are approved for use in California, USA, and meet or exceed the performance and safety standards set forth by the aforementioned codes and regulations.

	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
NOTES 2. PROMOET WIRMOCKENAT DAMPER 2. PROMOET WERMOCKENAT DAMPER 3. INTERNLOCK TO OWNERS INVESTMENT DIVISION OF THE PROMOET PROMOET PROPERTY. 3. INTERNLOCK TO OWNERS INVESTMENT OF THE OWNERS. 3. INTERNLOCK TO OWNERS INVESTMENT OF THE OWNERS. 4. INTERNLOCK TO OWNERS INVESTMENT OWNERS. 4. INTERNLOCK TO OWNERS. 4. INTERNLOC									

Exhaust Fan Schedule







ENVENTION

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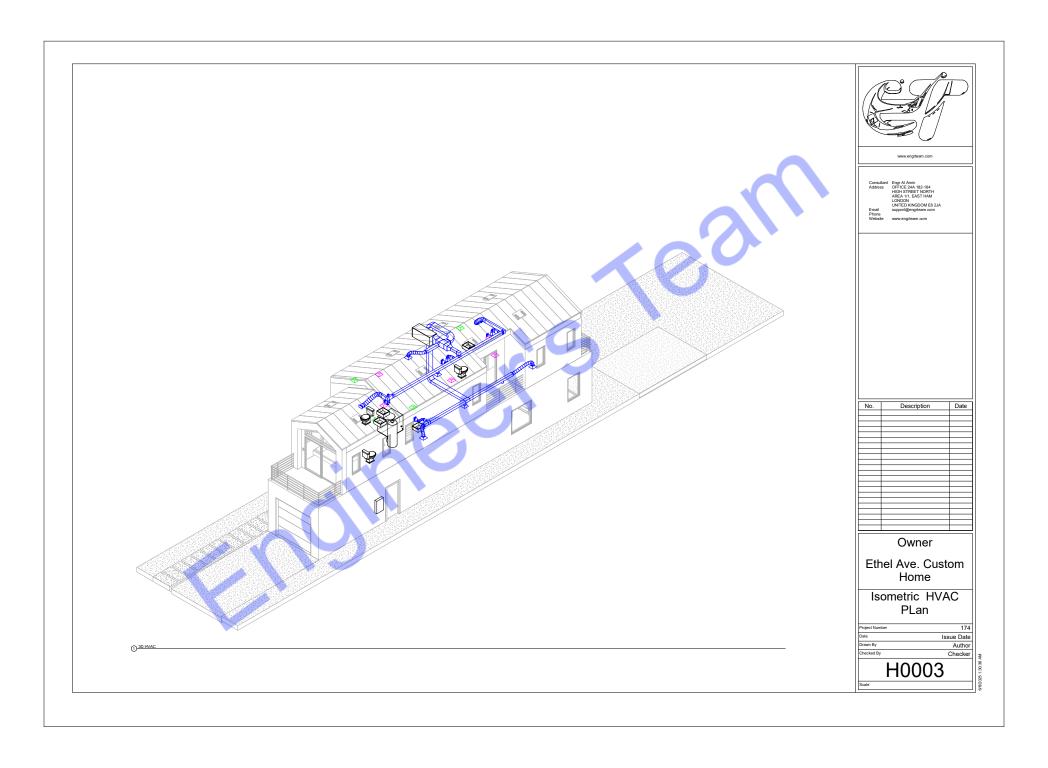


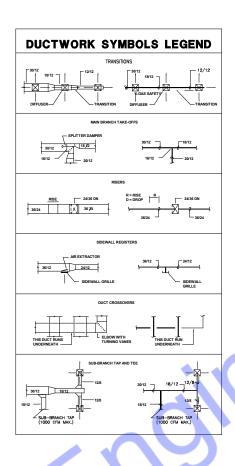
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Ethel Ave. Custom
Home

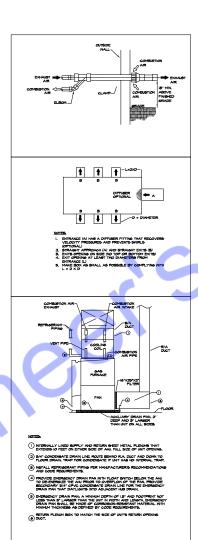
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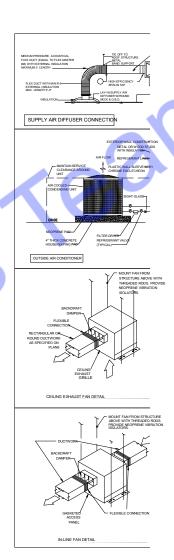
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support@engrteam.com

No. Description Date

Owner

Ethel Ave. Custom Home

HVAC Installation Details

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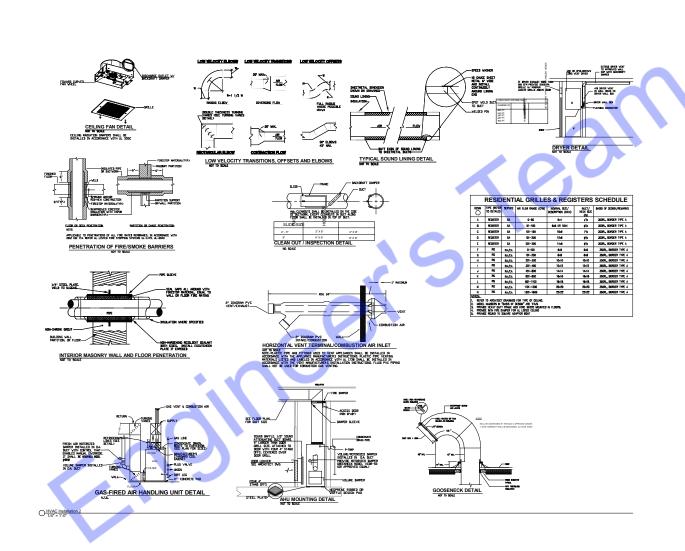
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Ethel Ave. Custom Home

HVAC Installation Details

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PLUMBING SPECIFICATIONS

MATER PIPING SYSTEM MATERIALS

WATER SERVICE UNDERSECUND - COPPER, ALTERNATIVE - SHALL BE "ENDPOLY PE-4110 HIGH DENSITY POLYETHYLENE WATER SERVICE TUBINS.

4. SOIL MASTE & VENT PIPING SYSTEM MATERIALS

- A SOIL, NOTE : VON THING SELECT ROLLENGE.

 A SOIL NOTE: VON THING SHALL BE PAC SCIEDULE 40, POA COME ROLLENGE PRED.

 PRACTICAL PROSPRIED AND FUTURES WITH P-TRAP SUED IN CLEANOUTS SHALL BE PROVIDED PER CODE. MALL CLEANOUTS SHALL BE PACK.

GENERAL PLUMBING NOTES:

PLUMBING SYMBOLS				
SYMBOL.	DESCRIPTION			
cr	DOMESTIC COLD MATER			
	DOMESTIC HOT WATER			
	SANITARY, SOIL OR MASTE PIPE			
	VENT PIPE			
	646			
	RAN MATER/STORM MATER			
0-	CONNECT TO EXISTING			
———»o	P-TRAP			
	BACK FLOW PREVENTER			
₽.V. ₽V	SHOCK ARRESTOR			
	VACUM RELIEF			
	PIPE GAP OR PLUG			
	PIPE CONTINUES			
	STOP VALVE			
	UNION			
MC C	ELBON DOWN			
Oup	ELBON UP			
—-p—	INDIRECT DRAIN			
Ø □ ₽	FLOOR DRAIN			
⊚ +	HJB DRAIN			
	HOSE BIBB			
₽	SHOVERHEAD			

BACKWATER VALVE 6A6 PRESSURE REGULATOR

DI LIMBING CYMBOLG



No.	Description	Date

Owner

Ethel Ave. Custom Home

Plumbing General Note

Issue Date Author Checker

P0001

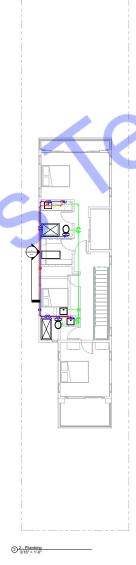
PLUMBING DRAWING LIST

This plumbing layout plan has been meticulously developed in strict adherence to all applicable codes, standards, and regulations governing plumbing systems within the jurisdiction of Sherman Oaks, Los Angeles, California. The design ensures full compliance with the following:

- 2022 California Plumbing Code (CPC), Title 24, Part 5
 Adopted statewide and based on the 2021 Uniform Plumbing Code, this code establishes the minimum requirements for the design, installation, and maintenance of plumbing systems in California.
- 2. 2023 County of Los Angeles Plumbing Code (Title 28)
 Incorporates local amendments to the 2022 CPC, reflecting specific regional considerations and requirements pertinent to Los Angeles County.
- 3. City of Los Angeles Plumbing Code Amendments Includes additional modifications and interpretations specific to the City of Los Angeles, ensuring that all citylevel regulations and standards are met.
- 4. California Green Building Standards Code (CALGreen), Title 24, Part 11 Mandates sustainable practices, including water efficiency measures, which have been integrated into the plumbing design to promote environmental responsibility.
- 5. Product Approvals All plumbing fixtures, fittings, and materials specified in this plan are certified and approved for use in California, USA, complying with relevant product standards and listings.

This plan is prepared to facilitate a safe, efficient, and codecompliant plumbing system for the specified property, aligning with all current regulatory requirements as of the date of this









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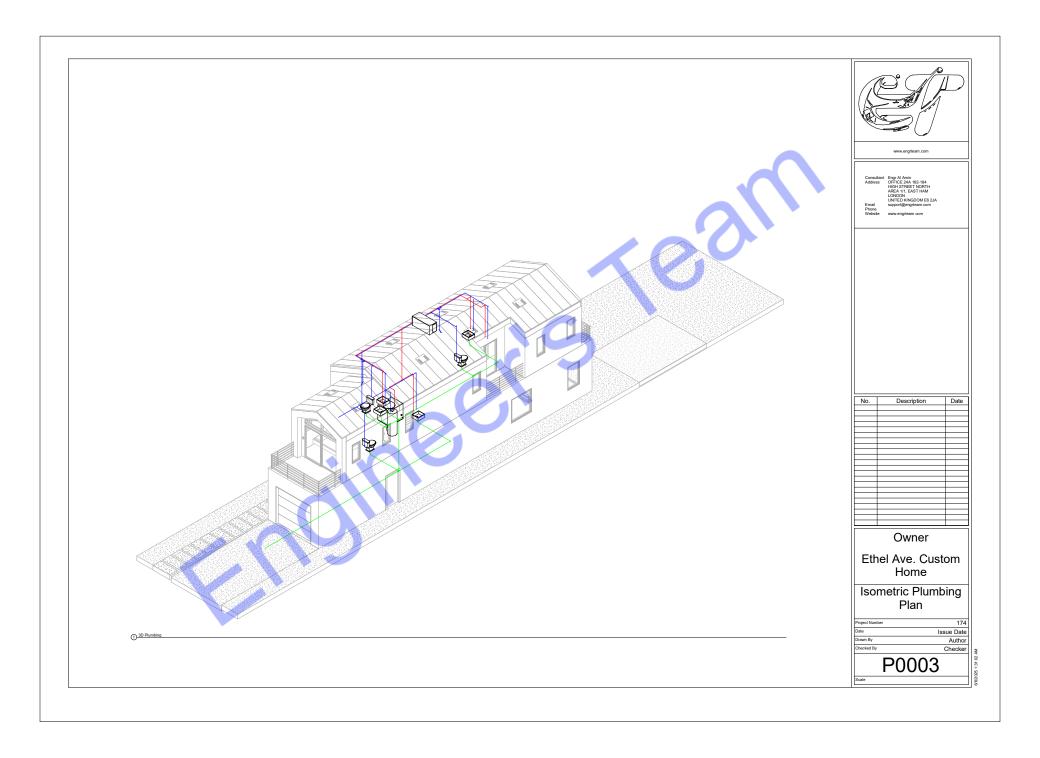
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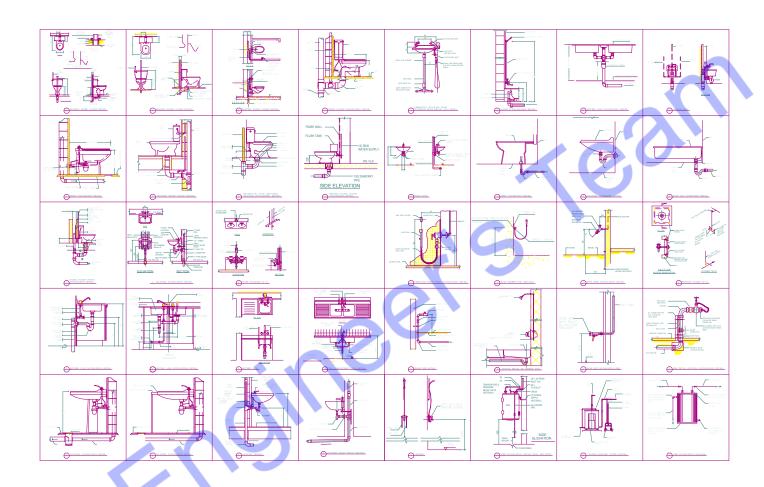
Ethel Ave. Custom Home

Plumbing Plan

Issue Date Author Checker

P0002





Plumbing Installation Details 1/8" = 1'-0"



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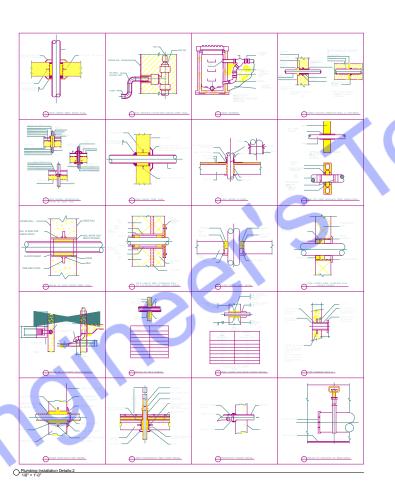
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Plumbing Installation Details

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Plumbing Installation Details

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