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DESIGNER
 DIXI DESIGN
 1231 N. CACTUS AVE. # E
 RIALTO, CA. 92376
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DEFERRED SUBMITTALS

DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED AND APPROVED BY THE REGISTERED DESIGN PROFESSIONAL AND SUBMITTED TO THE CITY OF FONTANA BUILDING AND SAFETY DIVISION FOR APPROVAL.

- 1- ROOF TRUSSES
- 2- ALL NEW LOW-RISE RESIDENTIAL BUILDINGS MUST HAVE A PHOTOVOLTAIC (PV) SYSTEM, 150.1 (C) 14

NOTE:
 BUILDING PERMIT WILL NOT BE FINALED UNTIL PV HAS BEEN INSTALLED.

DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED AND APPROVED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, SUBMITTED TO THE DEPARTMENT OF BUILDING AND SAFETY DIVISION FOR PLAN CHECK, AND NOT INSTALLED PRIOR TO THE PLAN CHECK FOR THE ITEM'S APPROVAL BY THE DEPARTMENT OF BUILDING AND SAFETY.

NOTE:
 EXISTING HOUSE IS NOT EQUIPPED WITH FIRE SPRINKLERS

- FIRE SPRINKLER SYSTEM (ADU IS EXEMPT)

SAN GABRIEL VALLEY WATER COMPANY

June 19, 2023

Mr. Michael Ramirez
 P.O. Box 245
 Monterey Park, CA 91754

Subject: 635 N. Maple Avenue
 Fontana, CA

Dear Mr. Ramirez:

In response to your request, we are furnishing herewith fire flow information based upon the results of a flow test conducted near the subject location. The results are as follows:

Static Water Pressure 70 PSI
 Pilot Reading 35 PSI
 Observed Flow 839 GPM
 Residual Water Pressure 60 PSI

Please be reminded that the flow information listed above indicates the capability of the water system at the time the test was made. Since the capacity of the water system may vary as a result of many factors, including changes in demand placed on the water system by our customers, we recommend that you give adequate consideration to these variations when performing your analysis.

If you need any additional information or have questions, please call me on my direct line (909) 201-7348 or via e-mail at kguzman@sgwater.com.

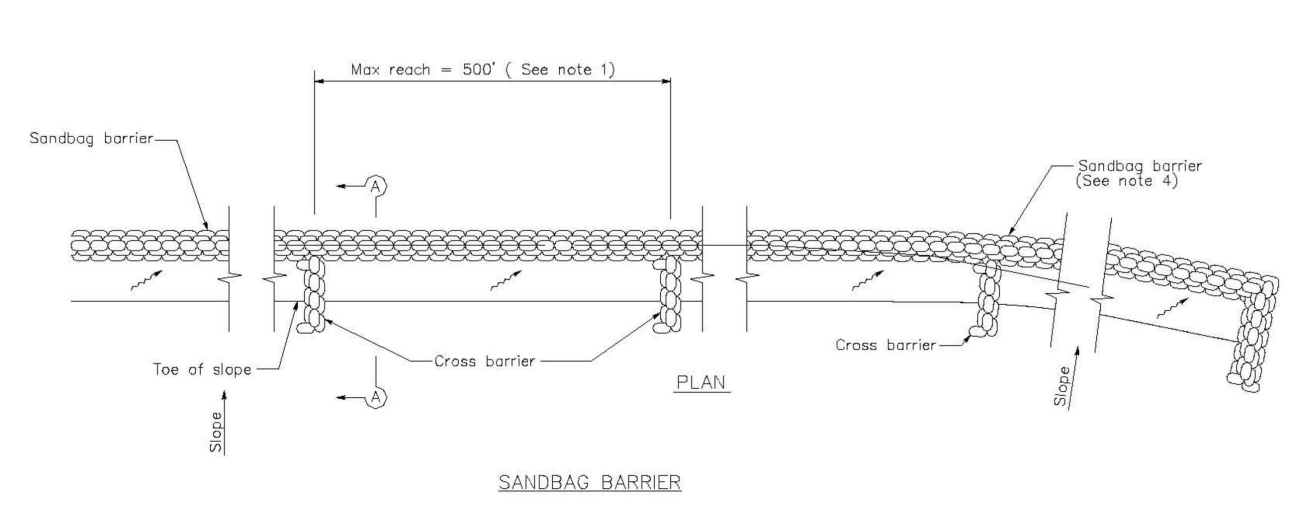
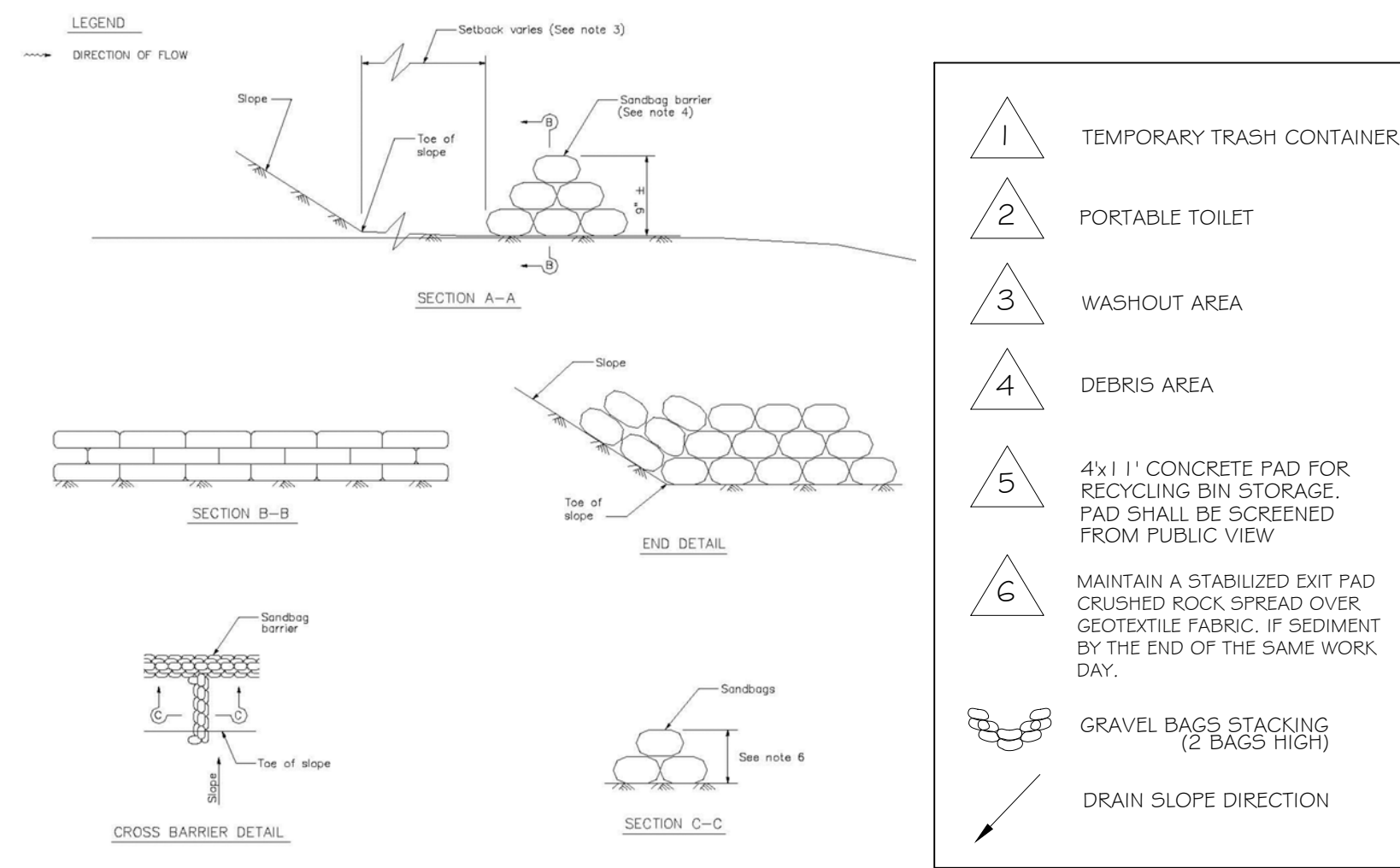
Very truly yours,

Karla Guzman
 Karla Guzman
 Assistant Engineering Manager

ENGINEERING DEPARTMENT
 1386 ARROW HITCH • FONTANA, CALIFORNIA 92331 • (909) 863-3253 • Fax (909) 863-7027



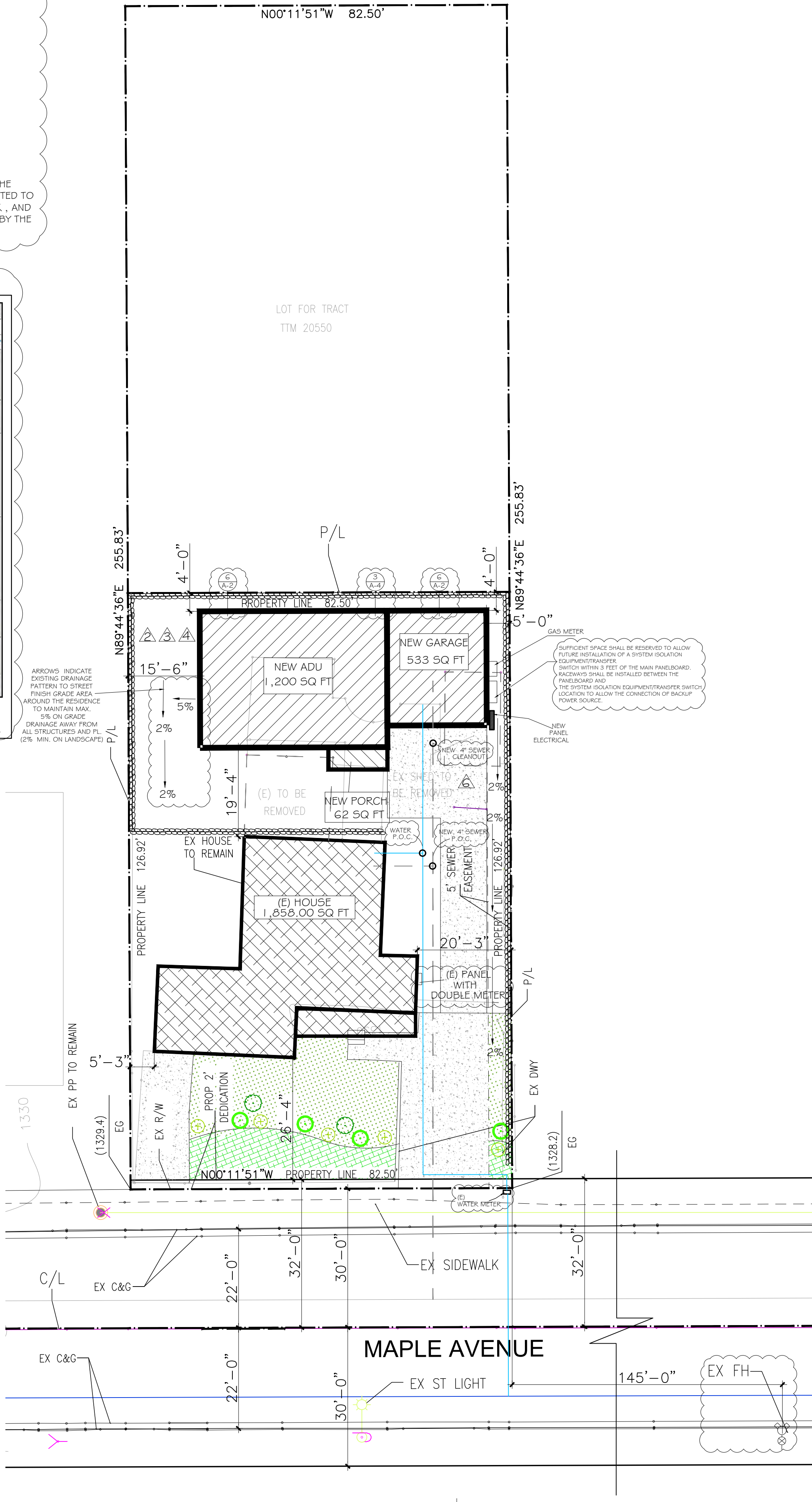
STABILIZED CONSTRUCTION ENTRANCE/EXIT TC-1



- NOTES**
- Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/2 the height of the linear barrier. In no case shall the reach length exceed 500'.
 - Place sandbags tightly.
 - Dimension may vary to fit field condition.
 - Sandbag barrier shall be a minimum of 3 bags high.
 - The end of the barrier shall be turned up slope.
 - Cross barriers shall be a min of 1/2 and a max of 2/3 the height of the linear barrier.
 - Sandbag rows and layers shall be staggered to eliminate gaps.

SANDBAG BARRIER

SE-8



SITE PLAN

SCALE 1/16" = 1'-0"

LOT	1
CITY	RIALTO
COUNTY	SAN BERNARDINO
STATE	CALIFORNIA
A.P.N.	0243-151-71

PROPOSED SQUARE FOOTAGE

SCOPE OF WORK

NEW ADU	=	1,200.00 SQ. FT.
NEW GARAGE	=	533.00 SQ. FT.
NEW FRONT PORCH	=	62.00 SQ. FT.
TOTAL AREA	=	1,795.00 SQ. FT.

(E) RESIDENCE	=	1,858.00 SQ. FT.
(E) FRONT PORCH	=	164.00 SQ. FT.
TOTAL AREA	=	2,022.00 SQ. FT.

533.00 SQ.FT + 62.00 SQ.FT. + 1,858.00 SQ.FT. + 164.00 SQ.FT. = 2,617 SQ.FT.

LOT SIZE = 10,470.00 SQ.FT.
 TOTAL LOT COVERAGE = 24.99%

BUILDING SUMMARY

1. CONTRACTOR SHALL, PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL EXISTING PROJECT CONDITIONS, INCLUDING DIMENSIONS AND UTILITY LOCATIONS AND UTILITY SIZES.

FIELD INFORMATION OF DISCREPANCIES SHALL BE RECORDED ON A REPRODUCIBLE DOCUMENT AND IMMEDIATELY TRANSMITTED TO DIXI MEJIA FOR PROJECT RECORD, COORDINATION, AND NECESSARY RESOLUTION PRIOR TO CONTINUING WITH WORK.

CONTRACTOR SHALL VERIFY, AND TO BE RESPONSIBLE FOR, ALL WORK AND MATERIALS - INCLUDING THOSE FURNISHED BY SUBCONTRACTORS.

WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES; DO NOT SCALE DRAWINGS TO DETERMINE ANY LOCATIONS. THE DIXI MEJIA SHALL BE NOTIFIED OF ANY DISCREPANCIES, PRIOR TO CONTINUING WITH WORK.

ALL DIMENSIONS ON PLANS ARE TO CENTER LINE OF WALLS / COLUMNS, AND FACE OF STUD (F.O.S.) OR FACE OF MASONRY (F.O.M.), UNLESS NOTED OTHERWISE.

2. ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITIONS OF ALL APPLICABLE BUILDING CODES, AS WELL AS ALL OTHER LOCAL GOVERNING CODES AND ORDINANCES.

3. ALL ELECTRICAL, MECHANICAL, AND PLUMBING WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL LEGALLY CONSTITUTED AUTHORITIES HAVING JURISDICTION.

4. THE GENERAL BUILDING PERMITS SHALL BE PAID FOR BY THE OWNER AND SECURED BY THE GENERAL CONTRACTOR. ALL OTHER REQUIRED PERMITS SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR OR SUBCONTRACTOR DIRECTLY RESPONSIBLE.

ALL REQUIRED CITY AND COUNTY LICENSES SHALL BE ACQUIRED AND PAID FOR BY THE INDIVIDUAL TRADES.

ALL CONTRACTORS SHALL HAVE VALID CERTIFICATES OF WORKSMAN'S COMPENSATION ON FILE WITH THE APPROPRIATE AGENCIES.

5. CONTRACTOR SHALL ASSIST OWNER IN OBTAINING FINAL APPROVAL OF LOCAL HEALTH DEPARTMENT AND THE TEMPORARY AND FINAL CERTIFICATES OF OCCUPANCY.

6. CONTRACTOR SHALL PROVIDE BACKING FOR SUPPORT OF ALL WALL, CEILING, AND PARTITION MOUNTED ITEMS SUCH AS LIGHT FIXTURES, SHELVING, EQUIPMENT, AND TELEVISIONS. COORDINATE LOCATIONS AND REQUIREMENTS WITH THE PLUMBING, MECHANICAL, ELECTRICAL DRAWINGS.

7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR THE REPAIR OR REPLACEMENT OF UTILITIES AND ALL OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH EXECUTION OF WORK.

8. CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES.

CONTRACTOR SHALL PROVIDE REQUIRED PROTECTION INCLUDING, BUT NOT LIMITED TO, SHORING, BRACING, AND ALL OTHER SUPPORTS (INCLUDING ENGINEERING OF SYSTEMS) NECESSARY TO MAINTAIN OVERALL STRUCTURAL INTEGRITY OF THE BUILDING.

9. INTERIOR WALL AND CEILING FINISHES SHALL NOT EXCEED FLAME SPREAD CLASSIFICATIONS DICTATED BY ALL APPLICABLE BUILDING CODES.

10. ALL GLASS AND GLAZING SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AS WELL AS THE U.S. CONSUMER PRODUCT SAFETY COMMISSION, SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS (47 FR, 13516 TITLE NO. 16, CHAPTER 11, PART 1201).

11. PIPES, CONDUITS, OR DUCTS EXCEEDING ONE THIRD OF THE SLAB OR MEMBER THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL DRAWINGS FOR LOCATION OF SLEEVES AND OTHER ACCESSORIES.

12. EXTERIOR OPENINGS SHALL COMPLY WITH ALL SECURITY REQUIREMENTS AS OUTLINED IN ALL LOCAL BUILDING CODES AND ORDINANCES.

13. ACCURATE AS-BUILT DRAWINGS SHALL BE GENERATED BY CONTRACTOR DURING CONSTRUCTION AND SUBMITTED TO OWNER UPON COMPLETION OF FINAL PUNCH LIST, BUT PRIOR TO REQUEST FOR FINAL PAYMENT.

14. ROOF OBSTRUCTIONS SUCH AS TELEVISIONS ANTENNA, SOLAR PANELS, AND GUY WIRES SHALL NOT BE LOCATED OR INSTALLED IN SUCH A

CONSTRUCTION TYPE	V-B
OCCUPANCY	R3-U
NUMBER OF STORIES	1
GARAGE	1

NOTE: ALL WORK SHALL COMPLY WITH THE 2022 CALIFORNIA BUILDING CODE, 2022 CALIFORNIA RESIDENTIAL CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA PLUMBING CODE, 2022 CALIFORNIA MECHANICAL CODE, 2022 CALIFORNIA ENERGY CODE, 2022 GREEN BUILDING STANDARDS CODE, AND THE CITY OF RIALTO MUNICIPAL CODE.

SHEET INDEX

- A-1 SITE PLAN
- A-N.1 CAL GREEN MANDATORY MEASUREMENTS
- A-N.2 CAL GREEN MANDATORY MEASUREMENTS
- A-2 PROPOSED FLOOR PLAN (ADU)
- A-3 PROPOSED ELEVATIONS (ADU)
- A-4 PROPOSED ROOF PLAN AND SECTIONS (ADU)
- A-5 PROPOSED ELECTRICAL PLAN
- A-6 PROPOSED MECHANICAL PLAN (ADU)
- A-7 PROPOSED PLUMBING PLAN (ADU)
- A-8 HOT, COLD WATER & GAS LINE PLAN (ADU)
- S-1 FOUNDATION PLAN
- D-1 STRUCTURAL DETAILS
- N-1 STRUCTURAL NOTES
- T24-1 CERTIFICATE OF COMPLIANCE
- T24-2 CERTIFICATE OF COMPLIANCE

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry Building-level Verifications:

- Quality insulation installation (QII)
- Indoor air quality ventilation
- Whole house fan airflow and fan efficacy
- Minimum Airflow
- Verified Refrigerant Charge
- Fan Efficacy Watts/CFM
- Verified heat pump rated heating capacity
- Duct leakage testing

NOTES

- SEPARATE BUILDING PERMITS ARE REQUIRED FOR GRADING AND DRAINAGE.
- PRIOR TO PERFORMING ANY WORK IN THE COUNTY RIGHT-OF-WAY, AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT.
- AT THE TIME OF FOUNDATIONS INSPECTION CORNER STAKES (PROPERTY AND BUILDING BOUNDARIES) OR OFFSET STAKES SHALL BE ESTABLISHED BY A LAND SURVEYOR REGISTER IN THE STATE OF CALIFORNIA, AND VERIFIED BY THE FIELD INSPECTOR TO ENSURE THAT NEW CONSTRUCTION IS LOCATE IN ACCORDANCE WITH THE APPROVED PLANS.
- EXCAVATION CUT EXCEEDING 5' TYPICALLY REQUIRE A DOSH PERMIT. ALL EXCAVATIONS MUST CONFORM TO APPLICABLE OSHA AND CAL-OSHA REQUIREMENT. CONTACT CALIFORNIA DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH (DOSH) FOR INFORMATION ABOUT REQUIRED PERMITS.
- HERS VERIFICATION REQUIRED BY T-24 ENERGY REPORT. PROVIDE EVIDENCE OF THIRD PARTY VERIFICATION (HERS) TO PROJECT BUILDING INSPECTOR, PRIOR TO FINAL INSPECTION.



VICINITY MAP

NOT TO SCALE

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REVISIONS

NO.	DESCRIPTION

SUBMITTAL

NO.	DESCRIPTION

SCOPE OF WORK:

NEW ADU	=	1,200.00 SQ. FT.
NEW GARAGE	=	533.00 SQ. FT.
NEW FRONT PORCH	=	62.00 SQ. FT.
TOTAL AREA	=	1,795.00 SQ. FT.

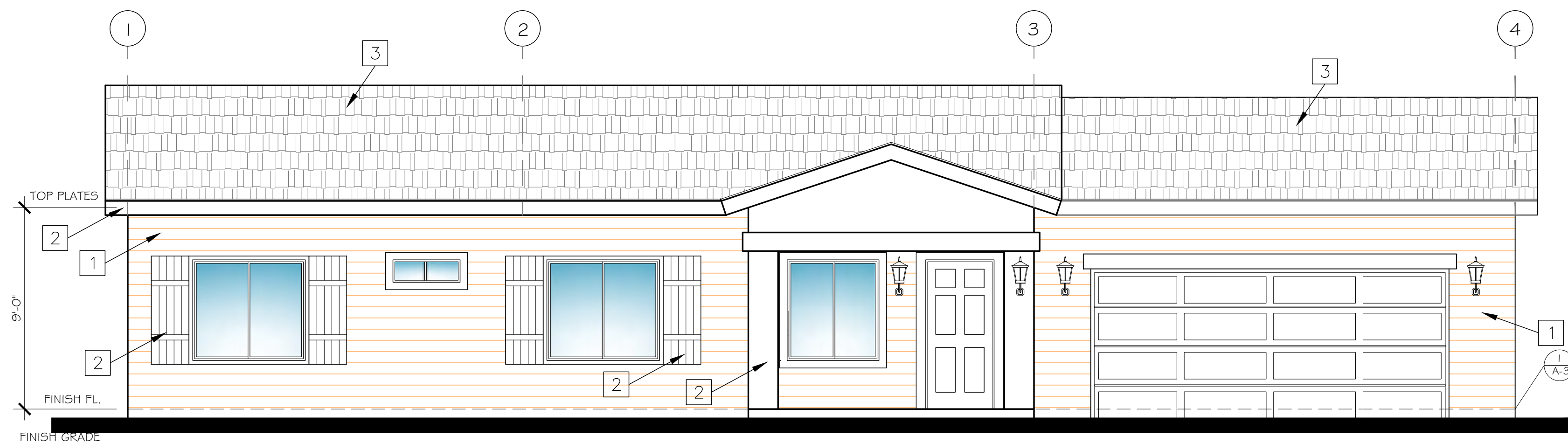
635 N MAPLE AVE, RIALTO, CA 92376
 APN: 0243-151-71

APPLICANT / OWNER
RAYMOND RAMIREZ

PLAN NAME
SITE PLAN

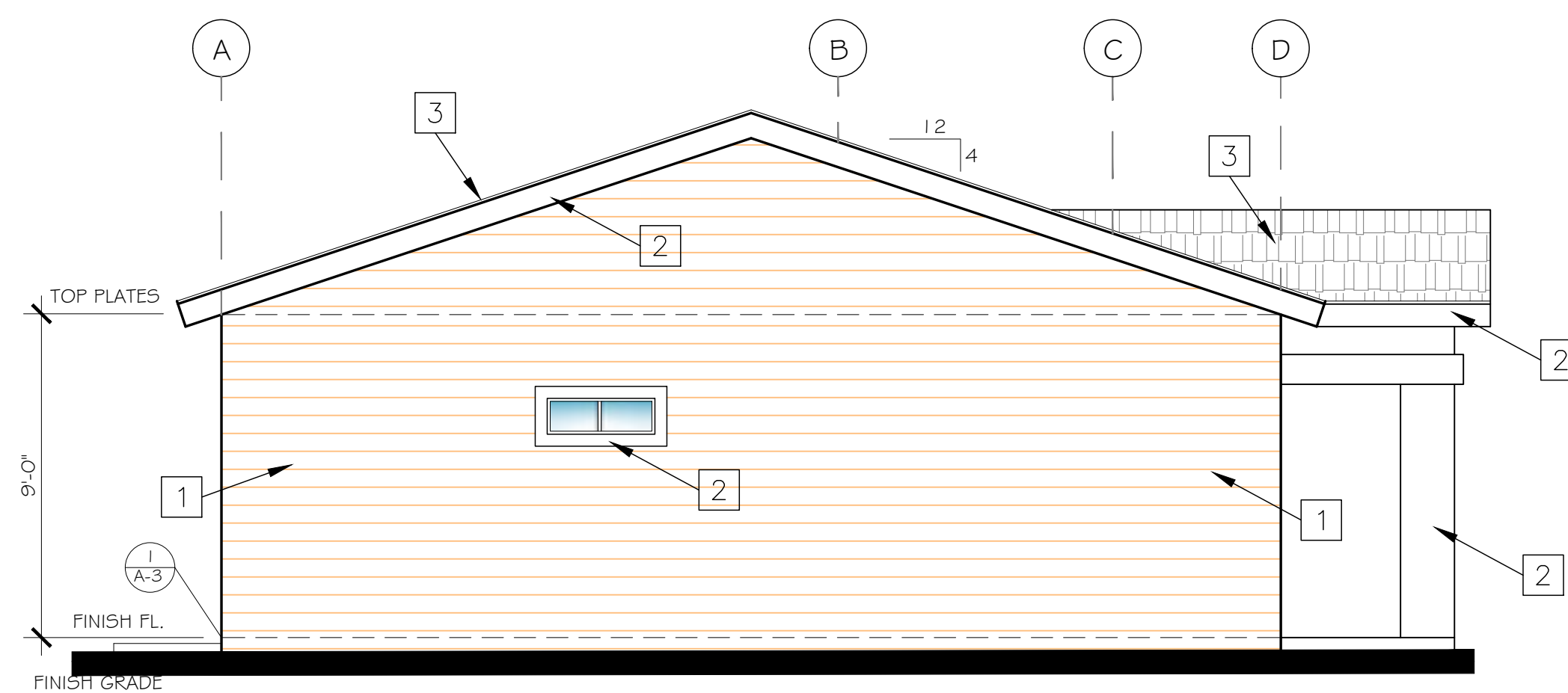
SHEET No.
A-1

SCALE AS SHOWN
 DATE PLOT 5/23



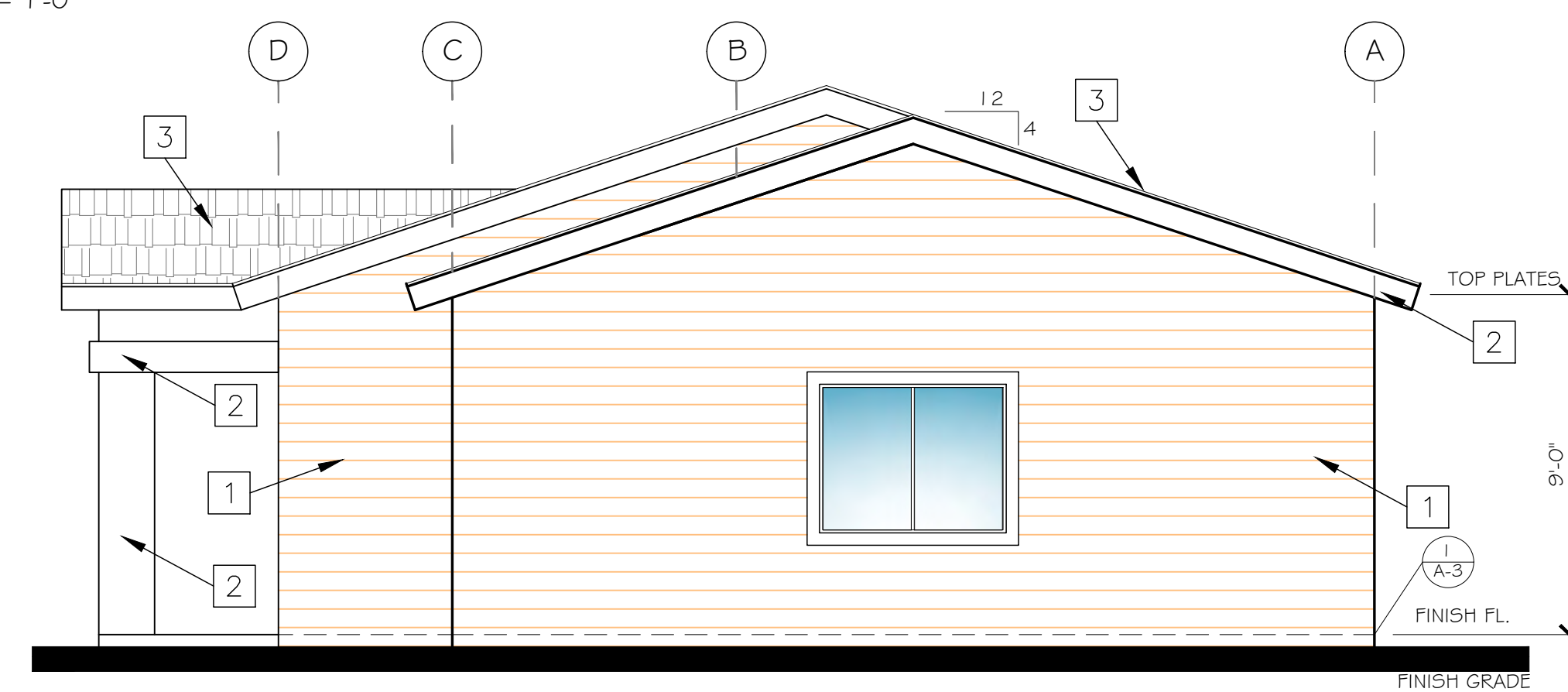
FRONT ELEVATION

SCALE 1/4" = 1'-0"



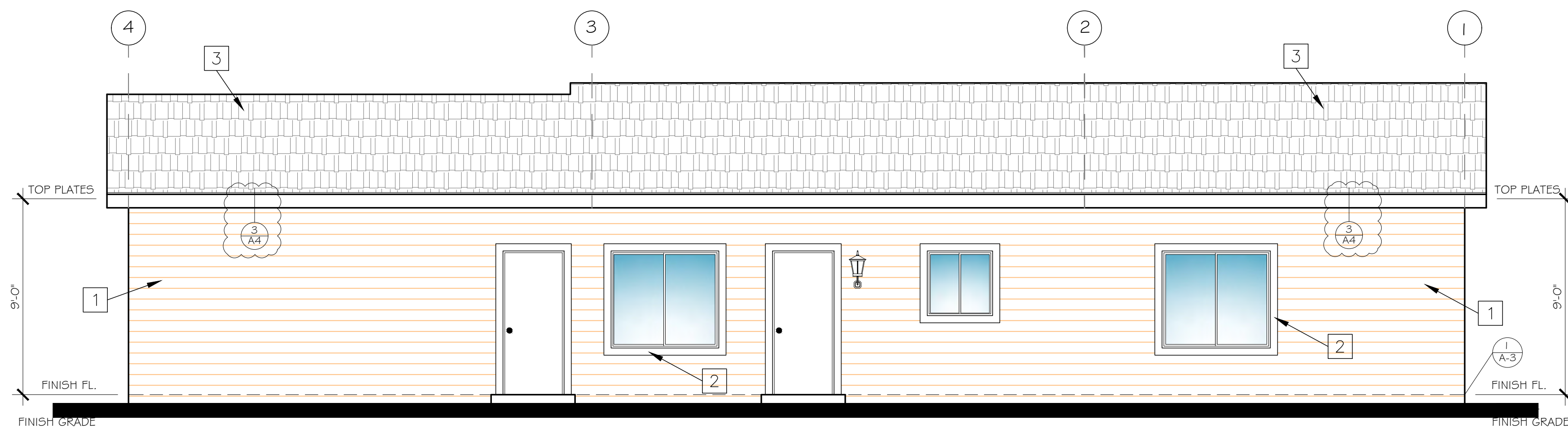
LEFT ELEVATION

SCALE 1/4" = 1'-0"



RIGHT ELEVATION

SCALE 1/4" = 1'-0"

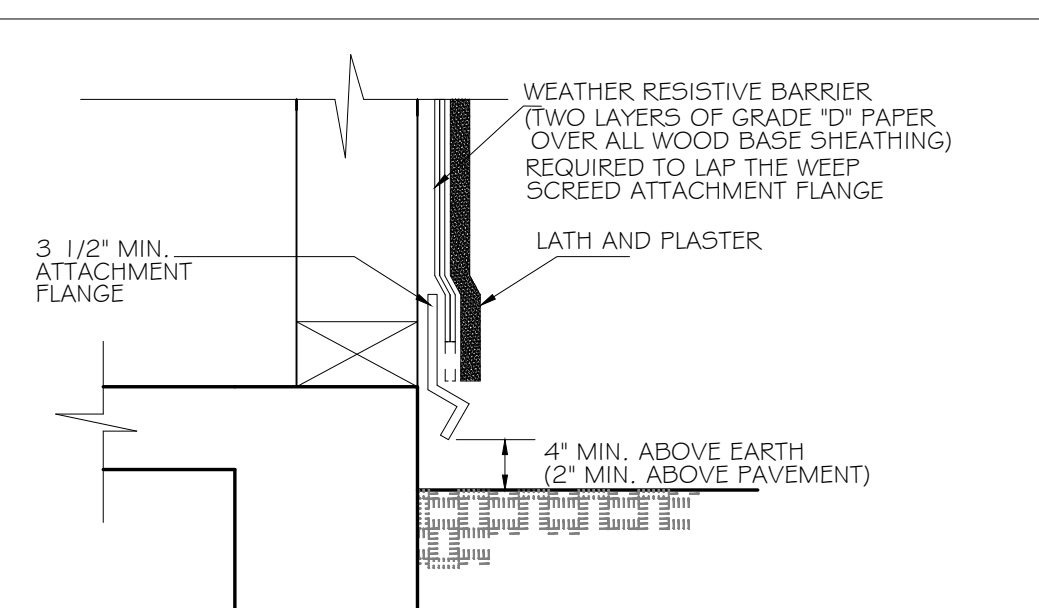


REAR ELEVATION

SCALE 1/4" = 1'-0"

EXTERIOR BUILDING MATERIAL AND COLOR SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	REMARK
1	HARDIEPLANK LAP SIDING	JAMESHARDIE	TO MATCH EXISTING HOUSE ICC ESR# 2290	OR OTHER COLOR APPROVED BY CITY
2	MOLDINGS, TRIMS AND SHUTTERS	LA HABRA	TO MATCH EXISTING HOUSE	OR OTHER COLOR APPROVED BY CITY
3	COMP. ROOFING	EAGLE ROOFING PRODUCTS	TO MATCH EXISTING HOUSE ICC ESR#3267	OR OTHER COLOR APPROVED BY CITY



WEEP SCREED DETAIL

1

- EXTERIOR PLASTER (STUCCO) WALLS SHALL BE PROVIDED WITH A CORROSION RESISTANT WEEP SCREED COMPLYING WITH SECTION R703.7.2.1
- WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED IN SECTION R703.2 AND, WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL COMPLY WITH SECTION R703.7.3.1 OR R703.7.3.2.

NOTES

1. STUCCO SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTER 25 OF THE CBC.
2. WHEN STUCCO IS APPLIED OVER WOOD BASE CHEATING TWO LAYERS OF GRADE D PAPER SHALL BE APPLIED
3. A MINIMUM No. 26 GAGE CORROSION- RESISTANT WEEP SCREED SHALL BE PROVIDE AT OR BELOW THE FOUNDATION PLATE LINE ON ALL EXTERIOR STUD WALLS
4. THE SCREED SHALL BE PLACED A MINIMUM OF 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAVED AREAS.
5. A CHIMNEY FOR RESIDENTIAL-TYPE OR LOW-HEAT GAS UTILIZATION EQUIPMENT SHALL EXTEND AT LEAST 3 FEET ABOVE THE HIGHEST POINT WHERE IT PASSES THROUGH A ROOF OF A BUILDING AND AT LEAST 2 FEET HIGHER THAN ANY PORTION OF A BUILDING WITHIN A HORIZONTAL DISTANCE OF 10 FEET. (CMC 802.5.2 FIGURE 8-1).
6. THE RADIANT BARRIER IS REQUIRED IN THE GABLE ENDS
7. ROOFING MATERIAL ON THE ROOF SHALL NOT EXCEED 10.3 POUNDS PER SQUARE FEET

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REVISIONS

NO.	DESCRIPTION

SUBMITTAL

SCOPE OF WORK
 NEW ADU
 635 N MAPLE AVE,
 RIALTO, CA 92376
 APN: 0243-151-71

APPLICANT / OWNER
 RAYMOND RAMIREZ

PLAN NAME
 PROPOSED ELEVATIONS
 "ADU"

SHEET No.
A-3

SCALE
 AS SHOWN
 DATE PLOT
 5/23

ROOF

TILE ROOF: TO MATCH EXISTING HOUSE
EAGLE ROOFING PRODUCTS- SHINGLES
UES # 1900
OVER 1/2" CDX PLYWD. SHEATHING
CLASS "B" W/ RADIANT BARRIER
4 : 12 PITCH
ICC ESR#9267

SOLAR ZONE

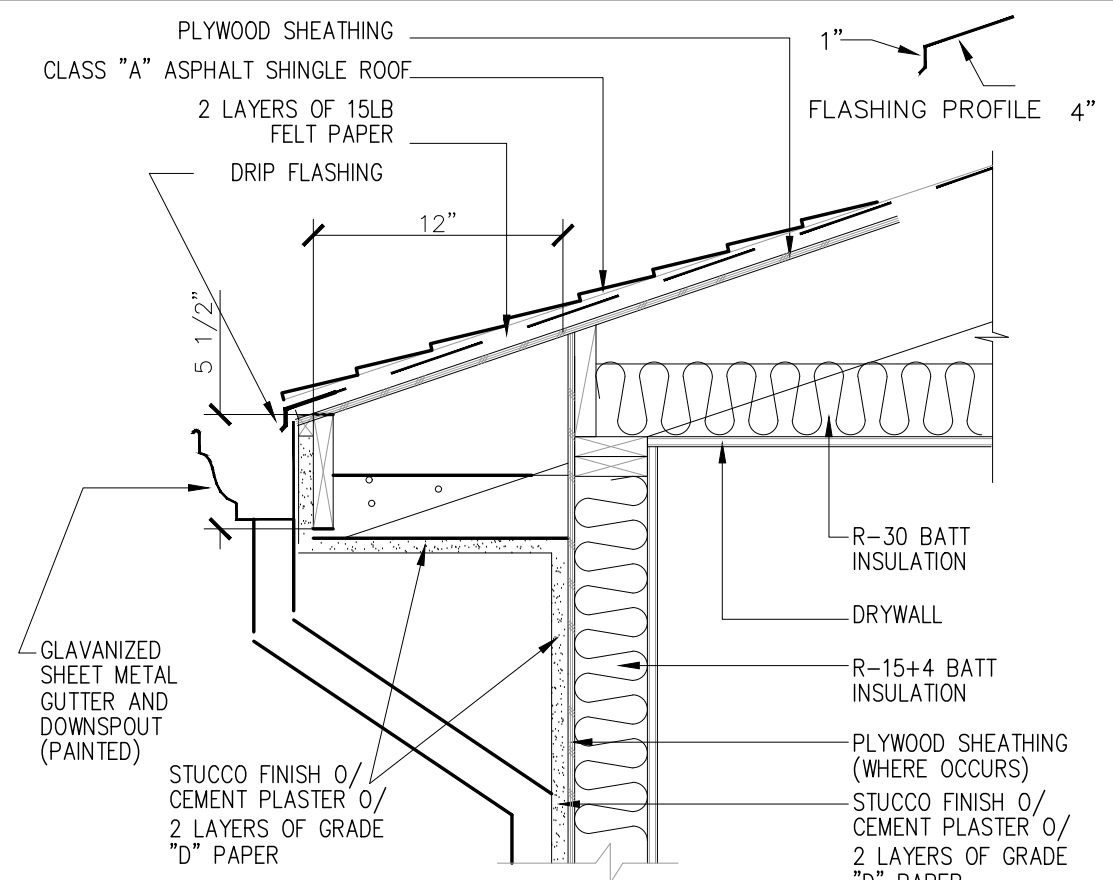
SOLAR ZONE AREA CALCULATION
PROPOSED ROOF AREA = 1,795.00 SQ. FT.
MINIMUM SOLAR ZONE FOR LOW-RISE MULTI-FAMILY BUILDING = 15%
1,795.00 SQ. FT. X 15% = 269.25 SQ. FT. MINIMUM SOLAR ZONE REQUIRED.
SOLAR ZONE PROVIDED = A1 = 270.00 SQ. FT.

ATTIC VENTILATION

PROPOSED AREA
1,200.00 SQ. FT. / 150 = 8 x 144 SQ. IN. = 1,152.00 SQ. IN.
1,152.00 SQ. IN. REQUIRED VENTILATION.
50 % OF REQUIRED VENTILATORS LOCATED IN UPPER
PORTION OF ATTIC AT LEAST THREE FEET ABOVE THE EAVES.
VENT SIZING
DORMER VENT DM36 = 136 SQ. INCHES EA. (9) = 1,224.00 SQ. IN.

STYLE No.	VENT WIDTH	VENT HEIGHT	VENT LENGTH	FLANGE SIZE	TAIL WIDTH	ROOF OPENING	FREE AREA
DM36	36"	18"	42"	6"	30"	18"x18"	** 136

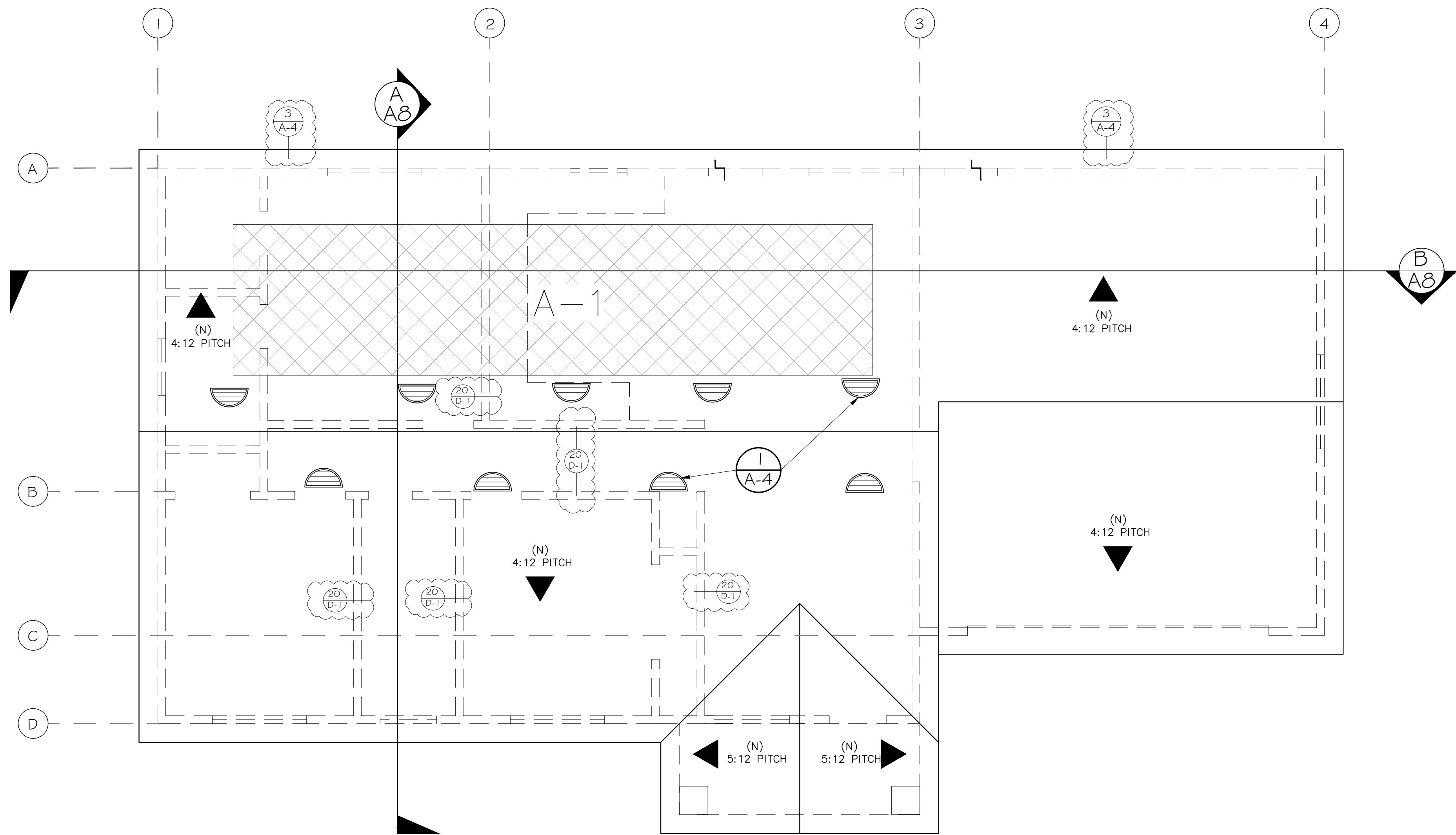
** SQUARE INCHES MEASURED IN ACCORDANCE WITH AMCA STANDARD-500 AND HVI-922.



EAVES WITHIN 5' OF PROPERTY LINE SHALL HAVE FIRE RESISTIVE RATING OF ONE HOUR ON THE UNDERSIDE. CRC TABLE R302.1 (1)

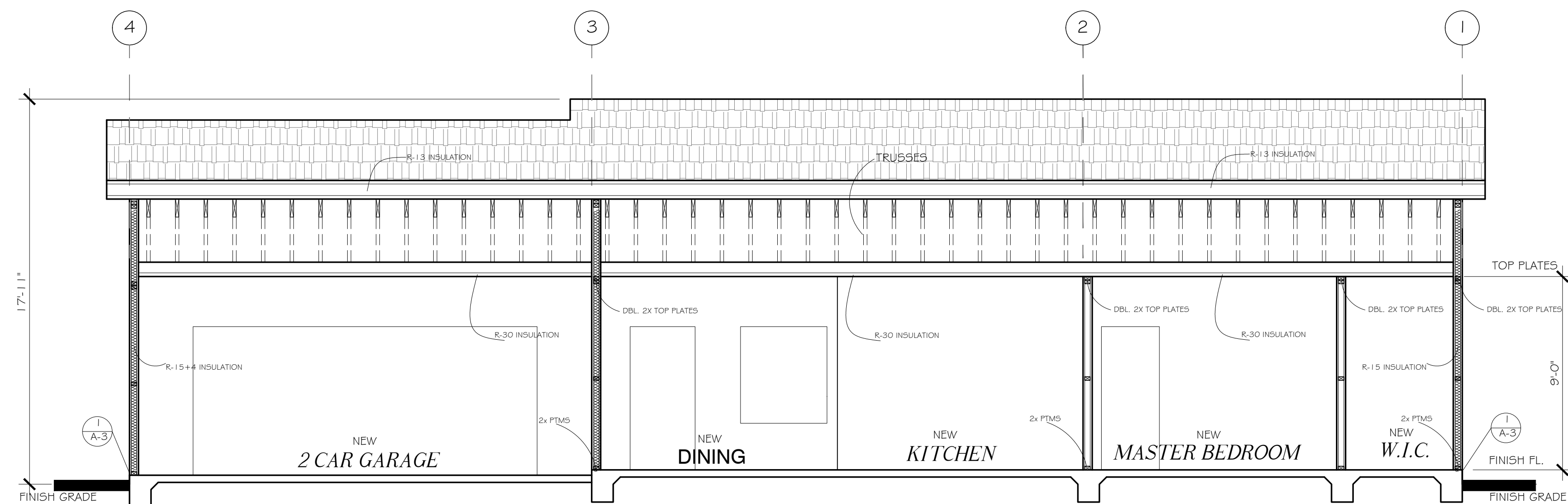
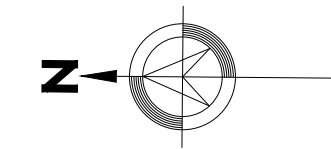
EAVE DETAIL

3



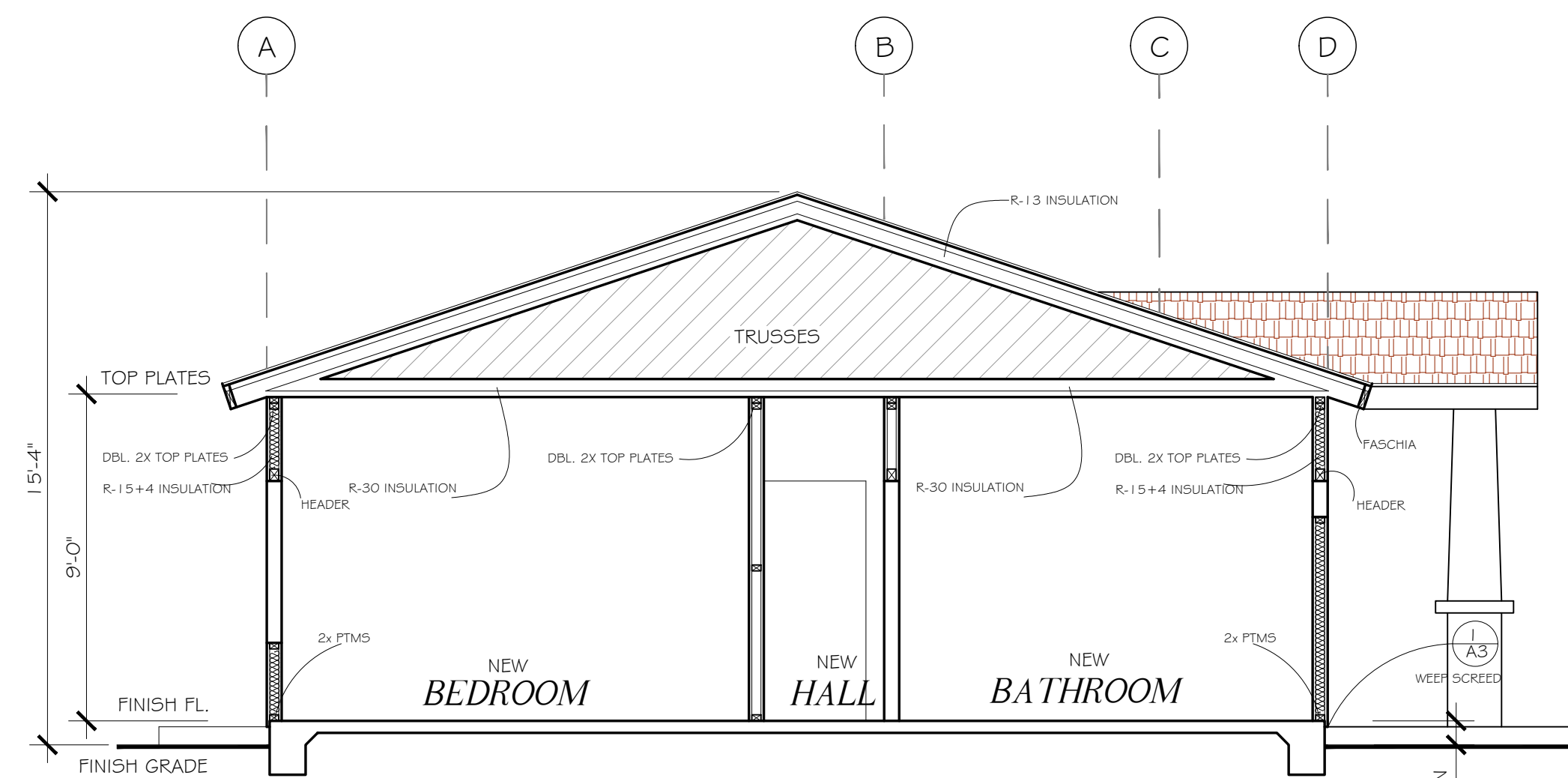
PROPOSED ROOF PLAN

SCALE 1/4" = 1'-0"



SECTION B

SCALE: 1/4" = 1'-0"



SECTION A

SCALE: 1/4" = 1'-0"

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REVISIONS

NO.	DATE	DESCRIPTION

SUBMITTAL

NO.	DATE	DESCRIPTION

SCOPE OF WORK

NEW ADU
635 N. MAPLE AVE,
RIALTO, CA 92376

APP: 0243-151-71

APPLICANT / OWNER
RAYMOND RAMIREZ

PLAN NAME
PROPOSED ROOF PLAN & SECTIONS "ADU"

SHEET No.
A-4

SCALE
AS SHOWN
DATE PLOT
5/23

NOTES

- 1. ALL WORK SHALL COMPLY BY THE CURRENT C.E.C.
2. FANS SHALL 5 AIR CHANGES PER HOUR
3. BATHROOM RECEPTACLES SHALL BE ON SEPARATE CIRCUIT AND SHALL BE SUPPLIED BY A MINIMUM OF 20 AMP BRANCH CIRCUIT...

ARTICLE 310.10(B) CONDUCTOR MATERIAL: COPPER WIRE SHALL BE USED FOR WIRING NO. 6 AND SMALLER IN ALL INSTALLATIONS...

ARTICLE 310.121 CONTINUOUS INSPECTION OF ALUMINUM WIRING. ALUMINUM CONDUCTORS OF NO. SIX (6) OR SMALLER USED FOR BRANCH CIRCUITS SHALL REQUIRE CONTINUOUS INSPECTION...

ARTICLE 690.13 BUILDING OR OTHER STRUCTURE SUPPLIED BY A PHOTOVOLTAIC SYSTEM: (A) LOCATION. THE PV DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION...

ARTICLE 690.13 BUILDING OR OTHER STRUCTURE SUPPLIED BY A PHOTOVOLTAIC SYSTEM IS AMENDED BY THE ADDITION TO READ AS FOLLOWS: (A) LOCATION. THE PV DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION...

ARTICLE 690.13 BUILDING OR OTHER STRUCTURE SUPPLIED BY A PHOTOVOLTAIC SYSTEM IS AMENDED BY THE ADDITION TO READ AS FOLLOWS: (A) LOCATION. THE PV DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION...

CONDUCTOR MATERIAL: COPPER WIRE SHALL BE USED FOR WIRING NO. 6 AND SMALLER IN ALL INSTALLATIONS. CONSIDERATION FOR USE OF ALUMINUM WIRING CAN BE MADE BY THE BUILDING OFFICIAL FOR FEEDER LINES...

CONTINUOUS INSPECTION OF ALUMINUM WIRING. ALUMINUM CONDUCTORS OF NO. SIX (6) OR SMALLER USED FOR BRANCH CIRCUITS SHALL REQUIRE CONTINUOUS INSPECTION...

BUILDING OR OTHER STRUCTURE SUPPLIED BY A PHOTOVOLTAIC SYSTEM: (A) LOCATION. THE PV DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION...

BUILDING OR OTHER STRUCTURE SUPPLIED BY A PHOTOVOLTAIC SYSTEM IS AMENDED BY THE ADDITION TO READ AS FOLLOWS: (A) LOCATION. THE PV DISCONNECTING MEANS SHALL BE INSTALLED AT A READILY ACCESSIBLE LOCATION...

CONDUCTORS: A SINGLE, VISIBLE-OPEN, LOCKABLE AC DISCONNECT SHALL BE WITHIN 3 FEET OF THE METER ON THE EXTERIOR OF THE BUILDING.

ALL SERVICES SUPPLYING DWELLING UNITS SHALL BE PROVIDED WITH A SURGE-PROTECTIVE DEVICE IN ACCORDANCE WITH CEC SECTION 230.67.

CARBON MONOXIDE ALARM REQUIREMENTS
1. CARBON MONOXIDE ALARMS ARE TO BE HARD WIRED WITH BATTERY BACKUP.
2. CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SLEEPING AREA...

SMOKE DETECTORS
1. ALL SMOKE DETECTORS IN SLEEPING ROOMS MUST BE AUDIBLE WHEN ACTIVATED/HARDWIRED W/ BATTERY BACKUP, INTERCONNECTED.
2. ALL BEDROOMS AND HALL AREAS THAT ACCESS BEDROOMS SHALL HAVE BACKUP SMOKE DETECTORS, HARD WIRE WITH BATTERY DETECTORS SHALL SOUND AN ALARM AUDIBLE IN ALL SLEEPING ROOMS.

21. ALL RECESSED LIGHT FIXTURE IN CONTACT WITH INSULATION SHALL BE I.C. RATED.
22. EXTERIOR WALL MOUNTED FIXTURES SHALL BE MOUNTED AT 6'-8" A.F.F.

23. ALL LIGHTS LOCATED WITHIN 3' OF TUBS AND SHOWERS SHALL BE U.L. LISTED FOR WET AREAS.

24. AT LEAST ONE ADDITIONAL 20-AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY THE LAUNDRY RECEPTACLE OUTLETS REQUIRED BY 210.52(F). THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS.

25. AT LEAST 20 AMPERE BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM RECEPTACLE OUTLETS.
- SMALL APPLIANCES - IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM, OR SIMILAR AREA OF A DWELLING UNIT...

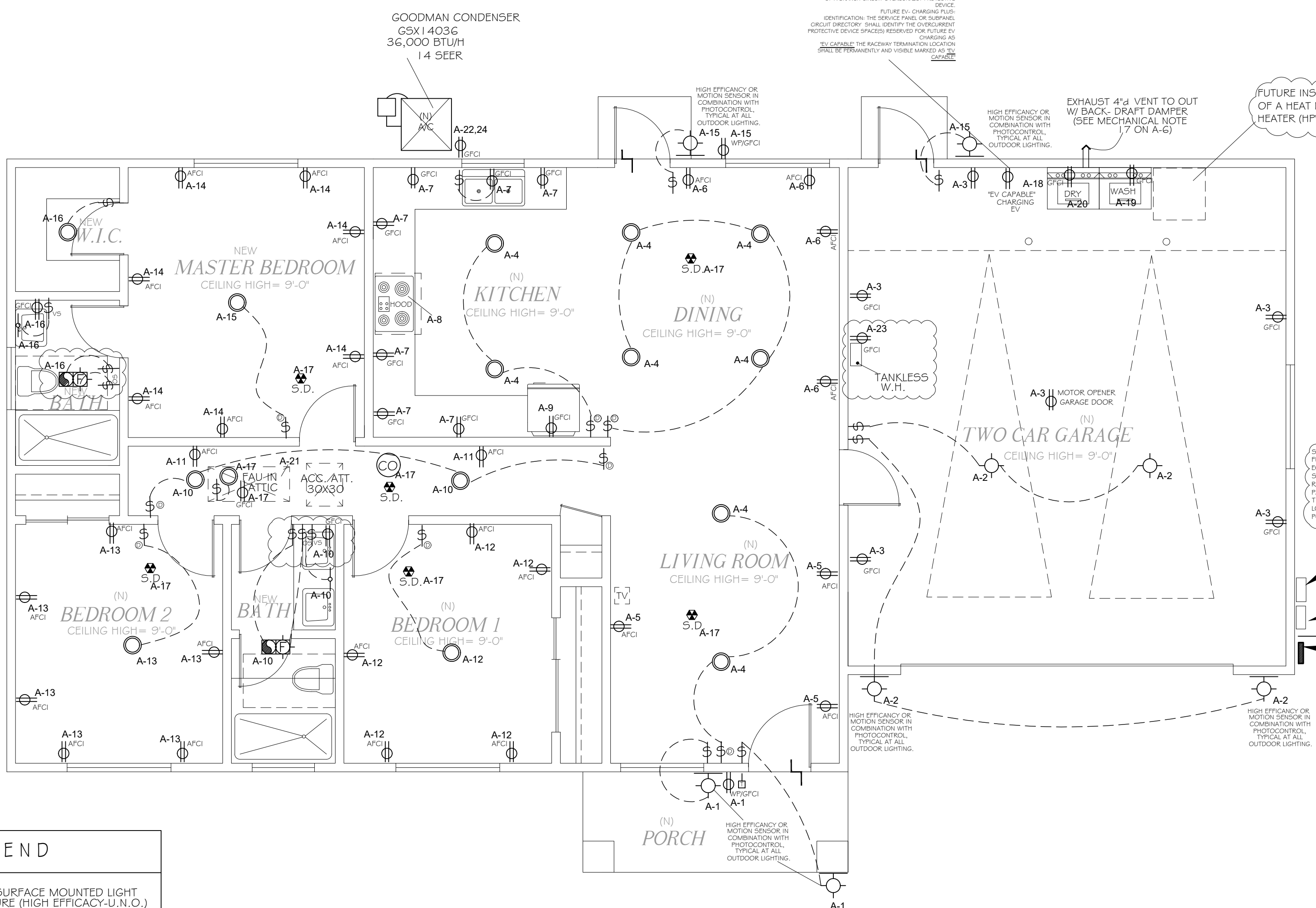
26. MECHANICAL EXHAUST FANS WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING:
- FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.

28. ELECTRICAL VEHICLE SUPPLY EQUIPMENT (EVSE), PROVIDE A 1" INSIDE DIAMETER LISTED RACEWAY TO ACCOMMODATE A DEDICATED 200/240 VOLT BRANCH CIRCUIT. THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUB-PANEL AND TERMINATE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF THE CHARGING SYSTEM INTO A LISTED CABINET, BOX OR ENCLOSURE.

LEGEND
[Symbol] CEILING SURFACE MOUNTED LIGHT FIXTURE (HIGH EFFICACY-U.N.O.)
[Symbol] WALL SURFACE MOUNTED LIGHT FIXTURE (HIGH EFFICACY-U.N.O.)
[Symbol] RECESSED COMBINATION LIGHT/FAN (HIGH EFFICACY) (SEE NOTE # 26)
[Symbol] FAN 120 CFM (SEE NOTE # 26)
[Symbol] 110 v. DUPLEX OUTLET
[Symbol] SINGLE POLE SWITCH
[Symbol] DIMMER RHEOSTAT SWITCH 602-1 P 06-1LW.
[Symbol] 3 WAYS SWITCH
[Symbol] OCCUPANCY SENSOR SWITCH
[Symbol] CARBON MONOXIDE ALARM
[Symbol] CABLE TELEVISION HOOK-UP
[Symbol] DOOR BELL
[Symbol] INTERCONNECTED HARD WIRED SMOKE DETECTOR WITH BATTERY BACK-UP S.D. ALARM
[Symbol] WATER PROOF GROUND FAULT INTERRUPTER
[Symbol] GROUND FAULT CIRCUIT INTERRUPTER
[Symbol] ARC FAULT CIRCUIT INTERRUPTER
[Symbol] RECESSED CAN LIGHT FIXTURE (HIGH EFFICACY-U.N.O.)
[Symbol] SPECIALTY LIGHT (IE STRIP LIGHTING OVER VANITY)
[Symbol] HOSE BIBE W. BACKFLOW PREVENTER DEVICE
[Symbol] HIGH EFFICACY (HE) = FLUORESCENT OR LED LIGHTING
[Symbol] LOW EFFICACY (LE) = MEDIUM SCREW BASE SOCKET

ALL 120V 15A AND 20A ELECTRICAL SERVING THE INTERIOR OF THE RESIDENCE SHALL HAVE AFCI PROTECTION.

ALL 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS (NOT JUST RECEPTACLES) AND UTILIZATION DEVICES INSTALLED IN DWELLING UNITS INCLUDING KITCHENS, DINING ROOMS, CLOSETS, HALLWAYS, SUNROOMS, LAUNDRY, LIVING ROOMS, DENS, BEDROOMS) SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT. CEC 210.12(A)



ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

Table with columns: WATTAGE, CIRCUIT, BREAKER, LUG, H.C., MINK, A, S, DESCRIPTION, MWG. Lists electrical loads for rooms like Garage, Living Room, Kitchen, Bath, etc.

NOTE: CALIFORNIA GREEN CODE, SECTION 4.10.4. THE DESIGN ONE AND TWO-PANEL DRAWINGS AND TERMINATIONS WITH APPROVED PROVIDER SHALL BE FOR EACH DRAWING UNIT. INITIAL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 200/240 VOLT BRANCH CIRCUIT...

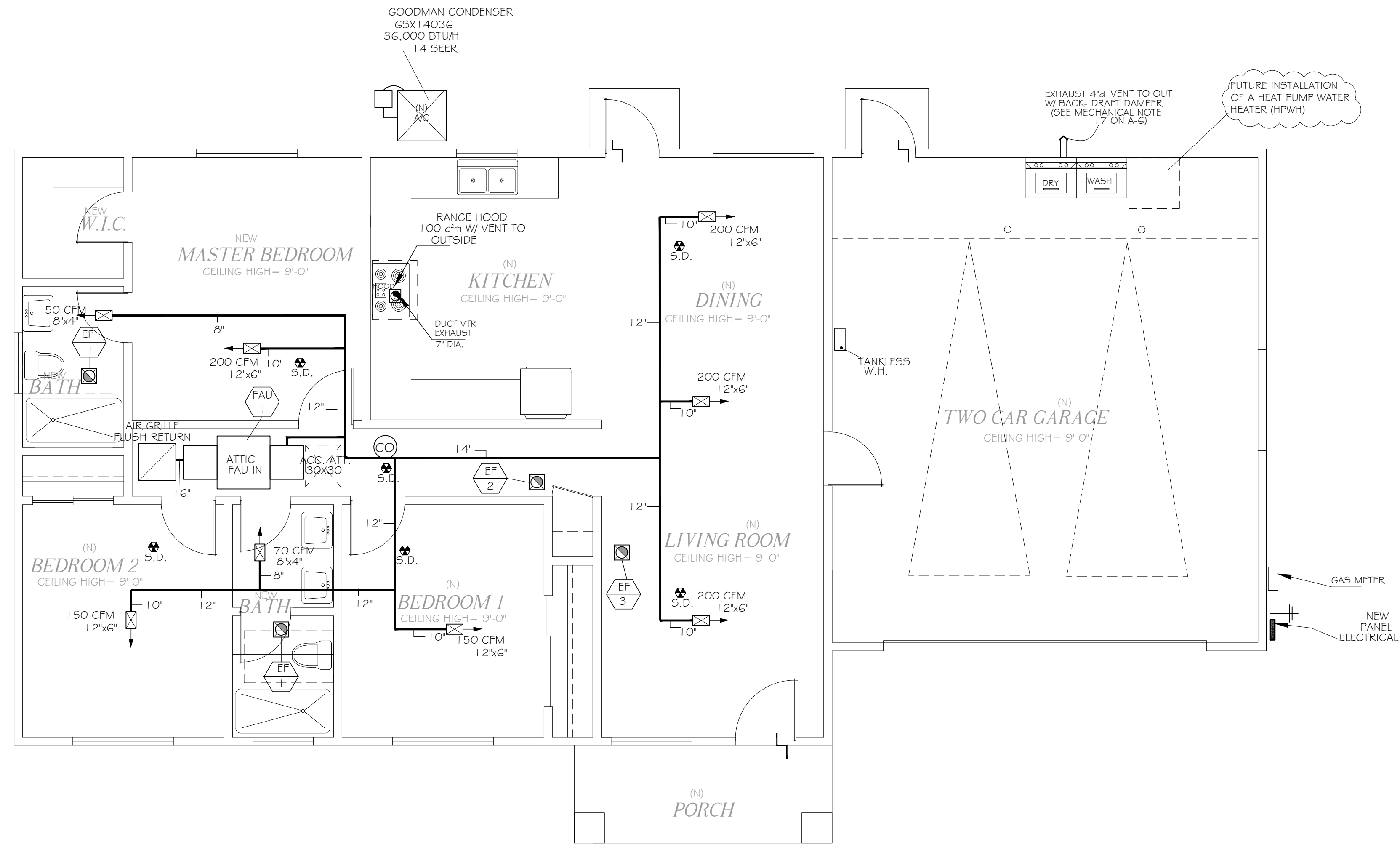
SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 5 FEET OF THE MAIN PANELOBOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANELOBOARD AND THE SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH TO ALLOW THE CONNECTOR OF BACKUP POWER SOURCE.

GAS METER
NEW PANEL ELECTRICAL UNDERGROUND SHALL BE RUN ELECTRICAL SERVICE PANEL ELECTRICAL 125 AMPERS

DIXI DESIGN BUILDING DESIGN 1231 N. CACTUS AVE. RIALTO, CA 92376 CREATIVE DEVELOPMENT & QUALITY (909) 549-5663
REVISIONS
SUBMITTAL
SCOPE OF WORK: NEW ADU 635 N MAPLE AVE, RIALTO, CA 92376
RAYMOND RAMIREZ
PROPOSED ELECTRICAL PLAN "ADU"
SHEET NO. A-5
SCALE AS SHOWN
DATE PLOT 5/23

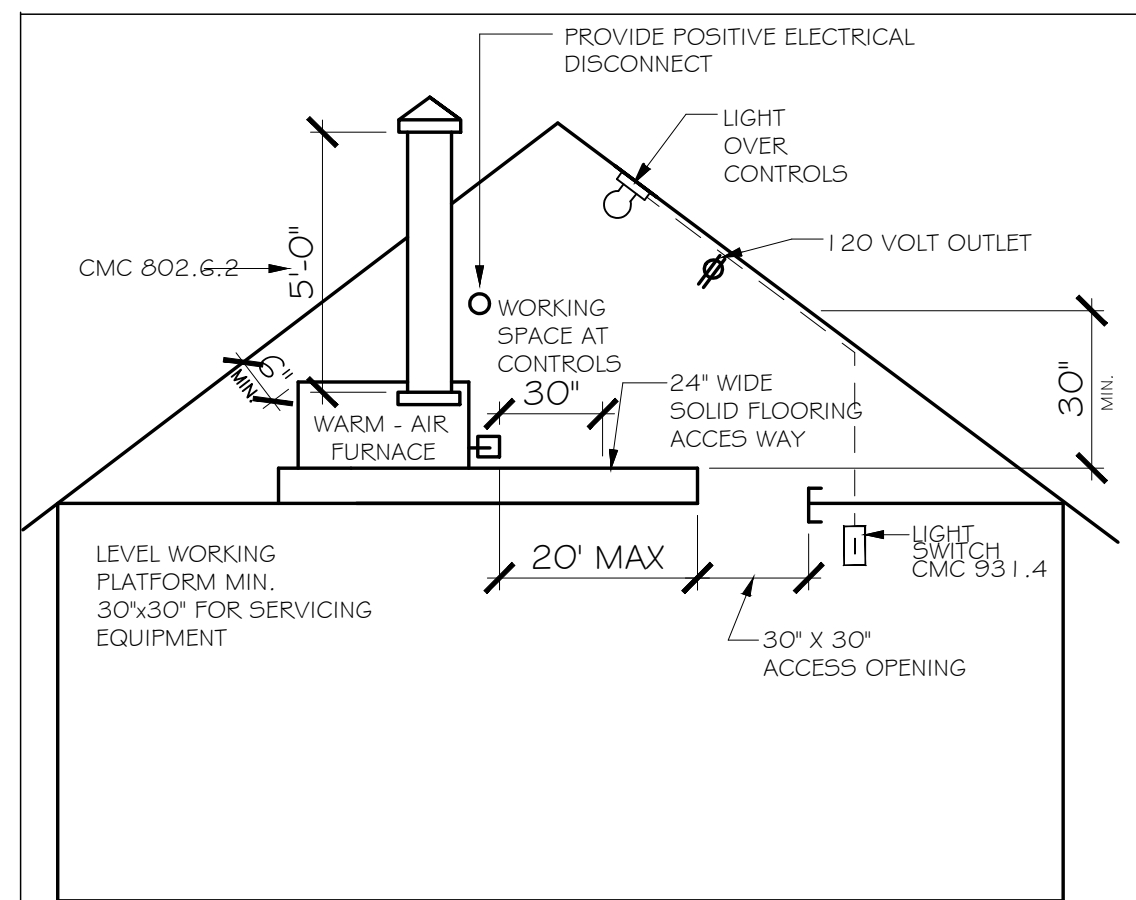
MECHANICAL NOTES

1. EXHAUST AIR FANS SHALL PRODUCE MINIMUM OF 5 AIR CHANGES PER HOUR.
2. DOOR AND WINDOWS SHALL BE FULLY WEATHERSTRIPPED.
3. OPENING SHALL BE CAULKED AND SEALED, I.E. AROUND JOINTS IN WINDOWS, WALLS SOLE PLATES, OPENINGS FOR UTILITY PIPING, AND WRING, ETC.
4. PROVIDE A THERMOSTAT THAT HAS AUTOMATIC SETBACK CAPABILITY FOR TWO PERIODS DURING 24 HOURS.
5. FURNACE INSTALLATION SHALL MEET ALL LISTED CLEARANCES.
6. DUCTS SHALL BE SIZED PER CHAPTER 6 OF THE C.B.C.
7. FREESTANDING AND BUILD-IN COOKTOPS SHALL HAVE A VERTICAL CLEARANCE ABOVE THE COOKING SURFACE OF NOT LESS THAN 24" TO A METAL VENTILATION HOOD AND NOT LESS THAN 30" TO UNPROTECTED COMBUSTIBLE MATERIAL.
8. GAS VENTS SHALL BE EFFECTIVELY DRAFT-STOPPED AT EACH FLOOR AND CEILING.
9. EXHAUST FAN SHALL BE DUCTED TO OUTSIDE AIR AND SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS.
10. LOCATION OF F.A.U. ON THE LAYOUTS IS APPROXIMATE. ACTUAL POSITION SHOULD BE FIELD VERIFIED AS WELL AS LOCATION OF TRUSSES AND JOISTS.
11. DUCTS RUNS AND LOCATIONS ARE APPROXIMATE. ACTUAL LOCATION SHOULD BE FIELD VERIFIED. TAKING INTO CONSIDERATION ATTIC SPACE, TRUSSES AND JOISTS, ALL TURNS IN DUCTWORKS SHALL MAINTAIN RADIUS AND NOT BE LESS THAN THE DUCT DIAMETER.
12. REGISTER LOCATION ARE APPROXIMATE. ACTUAL LOCATION SHOULD BE FIELD VERIFIED, TAKING INTO CONSIDERATION TRUSSES, JOISTS, BEAMS, AND OTHER PHYSICAL CONSTRAINTS.
13. HVAC INSTALLER SHALL BE RESPONSIBLE FOR BALANCING DUCT SYSTEM.
14. COVER HVAC OPENING AT TIME OF ROUGH INSTALLATION TO KEEP OUT DUST AND/OR DEBRIS.
15. BATHROOM EXHAUST FANS SHALL BE ENERGY STAR COMPLIANT AND SHALL BE CONTROLLED BY A HUMIDISTAT.
16. EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF NOT LESS THAN 68 F GRADES AT A POINT 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALL IN HABITABLE ROOMS AT THE DESIGN TEMPERATURE.
17. * EXHAUST DUCT TERMINATION IS A FOLLOWS:
 - a) 3 FEET FROM A PROPERTY LINE
 - b) 10 FEET FROM A FORCED AIR INLET, AND
 - c) 3 FEET FROM OPENING INTO THE BUILDING.
 * EXHAUST DUCT SHALL NOT DISCHARGE ONTO A PUBLIC WAY.
 - * UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER'S MANUFACTURER'S INSTALLATION INSTRUCTION AND APPROVED BY THE CITY, DOMESTIC DRYER MOISTURE EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14' INCLUDING TO 90 DEGREE ELBOWS. TWO FEET SHALL BE DEDUCTED FOR EACH 90-DEGREE ELBOW EXCESS OF TWO.
18. CLOTHED DRYER EXHAUST DUCTS SHALL TERMINATE ON THE OUTSIDE OF THE BUILDING AND EQUIPPED WITH A BACK-DRAFT DAMPER CMC 504.3
19. A DUCTED RESIDENTIAL EXHAUST HOOD IS REQUIRED, A METAL SMOOTH INTERIOR SURFACE DUCT REQUIRED ON VENT HOOD OR DOWN DRAFT EXHAUST VENT. ALUMINUM FLEX DUCT IS NOT APPROVED. PROVIDE BACK DRAFT DAMPER. CMC 504.3



MECHANICAL PLAN

SCALE: 1/4" = 1'-0"



FAU IN ATTIC DETAIL

- EF 1** EXHAUST FAN CAPABLE OF FIVE COMPLETE AIR CHANGES EVERY HOUR. DISCHARGE AIR TO OUT SIDE WITH POINT OF DISCHARGE A MINIMUM OF 5'-0" FROM ANY OPENING WHICH ALLOWS OUTSIDE AIR INTO THE BUILDING. BATHROOM EXHAUST FANS TO BE 50 CFM MINIMUM, WITH HUMIDISTAT CONTROLS
- FAU 1** 3.5 TON HORIZONTAL FAU WITH COOLING COIL. SET ON PLYWOOD PLATFORM WITH 1" MINIMUM INSULATION BELOW. PROVIDE 4" DIAMETER 'B' VENT TO OUTSIDE AIR. PROVIDE WATERTIGHT GALVANIZED PAN WITH 3/4" PVC CONDENSATE OVERFLOW TO DRAIN ABOVE WINDOW. MINIMUM EFFICIENCY 14.0 SEER. AC. GOODMAN 3.5 TON FURNACE GS2160421
- CU 1** CONDENSING UNIT AS SHOWN. PROVIDE 4" THICK CONCRETE PAD. GOODMAN AIR CONDITIONER CONDENSER. MODEL: GSX1403G1 MINIMUM EFFICIENCY 14.0 SEER.
- EF 2** INDOOR AIR QUALITY FAN TO OPERATE CONTINUOUSLY AT 51 CFM MIN = CFM 51 - 1AQ WATTS/CFM 0.35 PROPOSED = BRAND: AIRKING AIR KING 70 CFM, 0.5 SONE, CEILING MOUNTED SNAP IN WITH 4" ROUND DUCT
- EF 3** WHOLE HOUSE FAN AIR FLOW RATE CFM/WFT2 = 2.05 AIR FLOW RATE CFM = 2465 COOLING VENT CFM = 2465 PROPOSED = QUIET COOL QCCL-1500

AT LEAST ONE MECHANICAL VENTILATION SYSTEM IN THE BUILDING MUST BE DESIGNATED FOR USE IN COMPLIANCE WITH THE WHOLE BUILDING VENTILATION REQUIREMENT. ALTERNATIVELY, THE SUM OF THE RATED AIRFLOWS FROM MULTIPLE FANS CAN BE UTILIZED TO MEET THE REQUIRED WHOLE-BUILDING VENTILATION AIRFLOW. THE SYSTEM MUST DELIVER CONTINUOUS VENTILATION AIRFLOW AT A RATE GREATER THAN OR EQUAL TO THE RATE SPECIFIED IN EQUATION 4.1A AND FAN SONE RATING MUST NOT EXCEED 1.0 FOR DWELLING OCCUPANT DENSITIES KNOWN TO BE GREATER THAN (NBRM+1). THE RATE SHALL BE INCREASED BY 7.5CFM FOR EACH ADDITIONAL PERSON. THIS FAN MUST BE REMAIN RUNNING 24 HOURS A DAY. OVER RIDE SWITCH TO BE LOCATED NEAR THERMOSTAT.

INDOOR WHOLE-BUILDING VENTILATION

EXHAUST CFM	CONDITIONED FLOOR AREA	NUMBER OF BEDROOMS
Q =	0.01 X A + 7.5	X (N + 1)
Q =	0.01 X 1200 + 7.5	X (3 + 1)
	12	+ 30
Q =	42	(EXHAUST CFM REQUIRED)
80 CFM PROVIDED		
USE (1) PANASONIC WHISPER CEILING FAN		
TOTAL CFM = 80.00		
EDL = 140.00		
MODEL LIST = WHISPER CEILING FV-15VQ5.		

NOTE:

- 1- THE CONDENSATE UNIT TO BE CLEARLY MARKED W/FAU UNIT NUMBER # TO BE PLACED IN AN ORDERLY PATTERN AS FLOOR PLAN SHOW.
- 2- GRAVITY VENTING SYSTEM TO BE DOUBLE WALL TYPE 'B' VENT MATERIAL AND HORIZONTAL SECTIONS (46-60 DEGREES FROM VERTICAL) NOT TO EXCEED 75% OF THE OVERALL HEIGHT OF THE VENT LENGTH. ONLY (1) 60 DEGREE OFFSET IS PERMITTED. VENT OFFSETS MORE THAN 60 DEGREES ARE NOT PERMITTED. (CMC 802.6.1)
- 3- INSULATED DUCTWORK PROPERLY SUPPORTED AND JOINTS PROPERLY SECURED (CMC STANDARD G-5, SMACNA).
- 4 -CONTRACTOR IS RESPONSIBLE FOR 'TESTING OF HVAC SYSTEM TO VERIFY DESIGN AIR ELEMENTS'.
5. MECHANICAL EXHAUST FANS WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING:
 - FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
 - UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE.
 - HUMIDISTAT CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50 TO 80 PERCENT.

DIXI DESIGN

BUILDING DESIGN
1231 N. CACTUS AVE. RIALTO, CA 92376
CREATIVE DEVELOPMENT & QUALITY
(909) 549-5563

DESIGNER:
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REVISIONS

NO.	DESCRIPTION

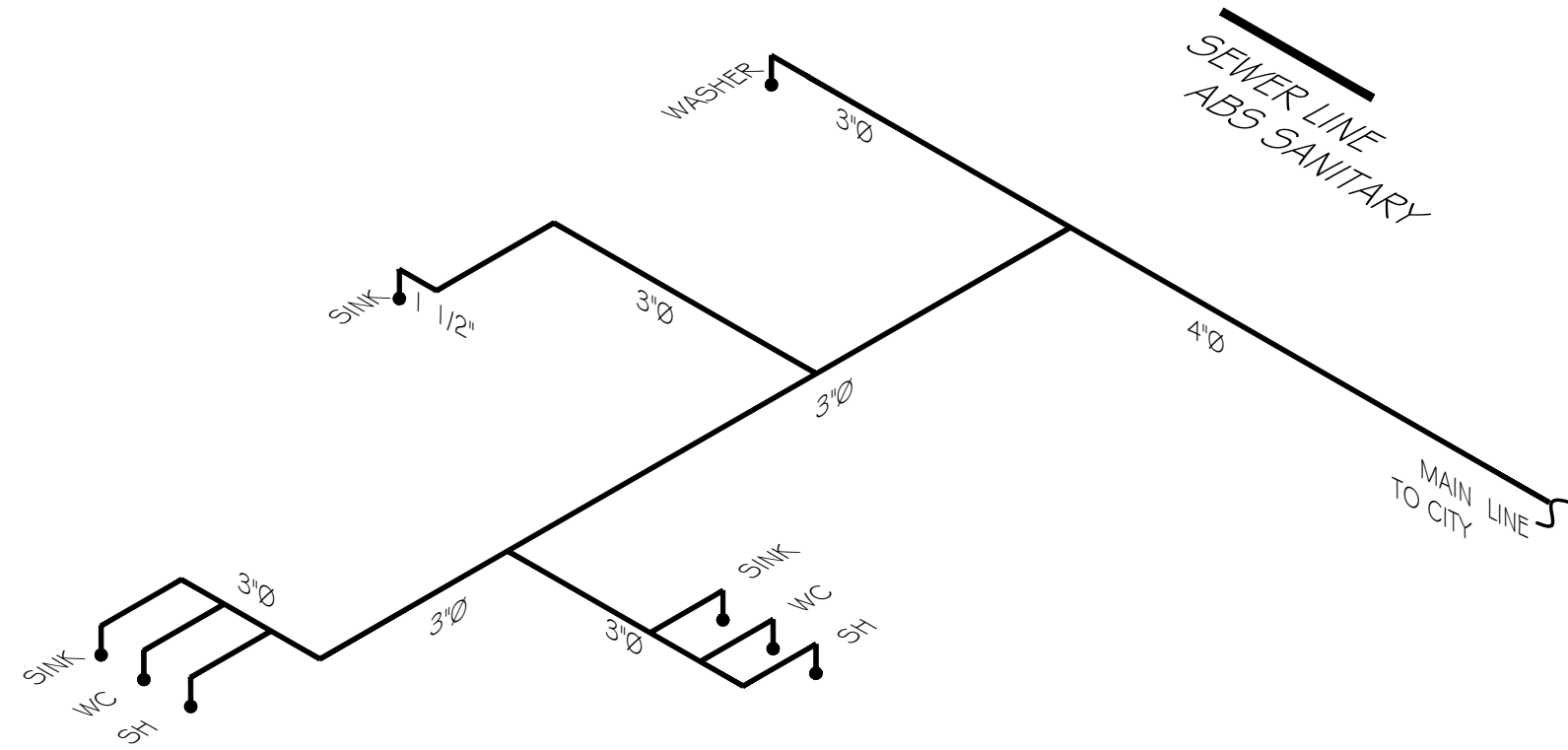
SCOPE OF WORK
NEW ADU
635 N MAPLE AVE,
RIALTO, CA 92376
APN: 0243-151-71

APPLICANT / OWNER
RAYMOND RAMIREZ

PLAN NAME
PROPOSED MECHANICAL PLAN "ADU"

SHEET No.
A-6

SCALE
AS SHOWN
DATE PLOT
5/23



TYP. SEWER ISOMETRIC
NOT SCALE

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2,3}
Grams of VOC per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY(2,3)	CURRENT LIMIT
Flat coatings	50
Nonflat coatings	100
Nonflat-high gloss coatings	150
Specialty Coatings	
Aluminum roof coatings	400
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High temperature coatings	420
Industrial maintenance coatings	250
Low solids coatings(1)	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multicolor coatings	250
Pretreatment wash primers	420
Primers, sealers, and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Rust preventative coatings	250
Shellacs	
Clear	730
Opaque	550
Specialty primers, sealers and undercoaters	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tube and tile refinsh coatings	420
Waterproofing membranes	250
Wood coatings	275
Wood preservatives	350
Zinc-rich primers	340

- 1. Grams of VOC per liter of coating, including water and including exempt compounds.
- 2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
- 3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

FORMALDEHYDE LIMITS (1)
Maximum Formaldehyde Emissions in Parts per Million.

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard (2)	0.13

- 1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E 1333. For additional information, see California Code of Regulations, Title 17, Sections 93120 through 93120.12.
- 2. Thin medium density fiberboard has a maximum thickness of 5/16 inches (8 mm).

WASTE AND VENT NOTES
SECTION 4.504 POLLUTANT CONTROL

4.504.1 Covering of Duct Openings and Protection of Mechanical Equipment During Construction. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air intake and distribution component openings shall be covered. Tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of water, dust and debris entering the system may be used.

4.504.2 FINISH MATERIAL POLLUTANT CONTROL. FINISH MATERIALS SHALL COMPLY WITH WITH THIS SECTION.

4.504.1 Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply:
 1 - Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 116B VOC limits, as shown in Tables 4.504.1 or 4.504.2 as applicable. Such products shall also comply with Rule 116B prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for Aerosol products as specified in Subsection 2 below.
 2 - Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of the California Code of Regulations, Title 17, commencing with Section 94507.

4.504.2.2 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the Air Resources Board Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37, of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat, or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.

SECTION 4.504.1 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.

4.504.1 Covering of Duct Openings and Protection of Mechanical Equipment During Construction. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air intake and distribution component openings shall be covered. Tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of water, dust and debris entering the system may be used.

4.504.2.3 Aerosol paints and coatings shall meet the Product-Weighted MIR Limits for VOC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Section 94522(c)(2) and (d)(2) of the California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District shall additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

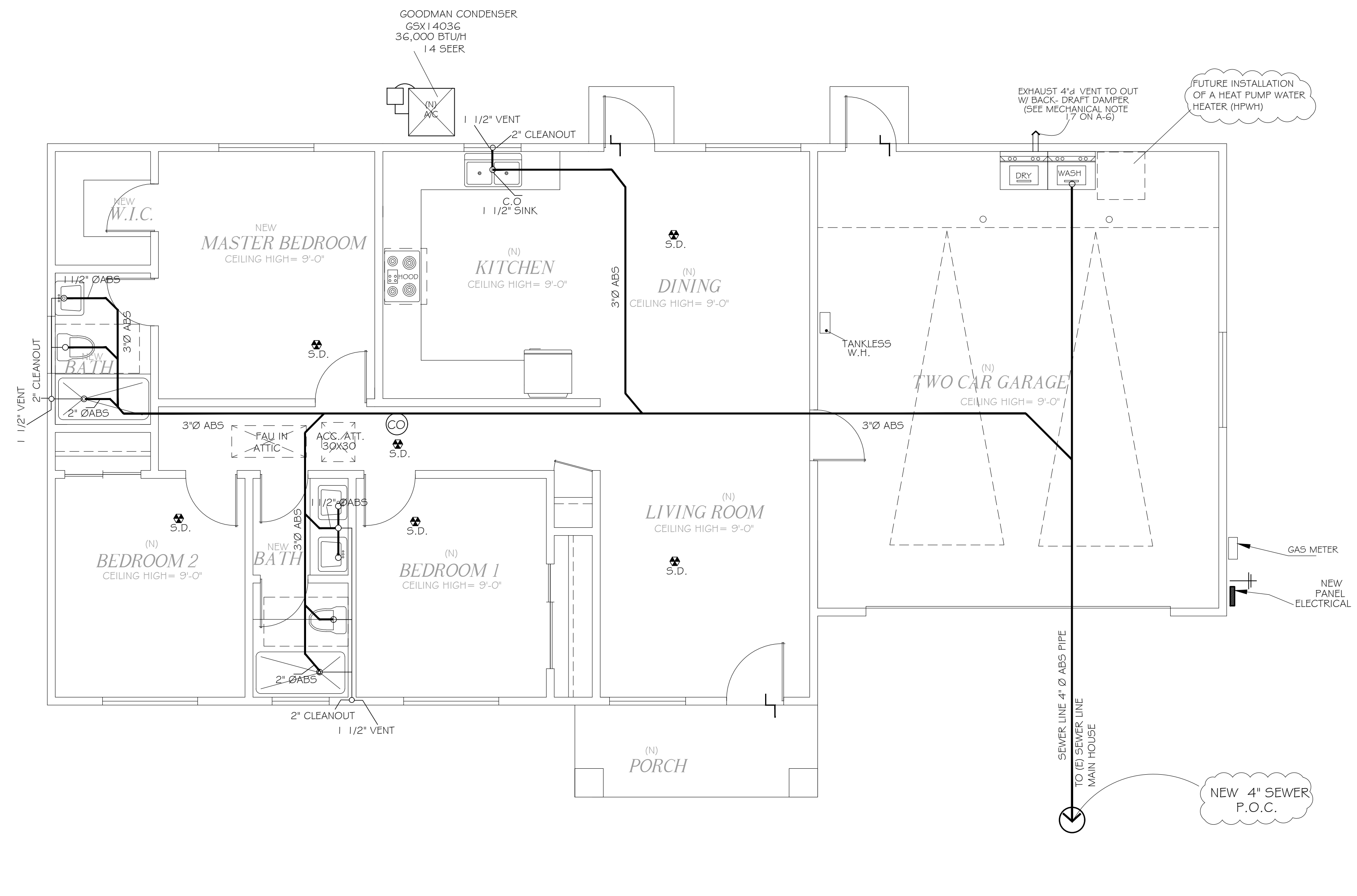
4.504.2.4 verification, verification of compliance with this section shall be provided at the request of the enforcing agency. documentation may include, but is not limited to the following:
 1. manufacturer's product specification
 2. field verification of on site product containers.

4.504.3 All carpet installed in the building interior shall meet the testing and product requirements of one of the following:
 1 - Carpet and Rug Institute's Green Label Plus Program
 2 - California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification O1350).
 3 - NSF/ANSI 140 at the Gold level
 4 - Scientific Certifications Systems Indoor Advantage™ Gold.

4.504.3.1 All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label Program.

4.504.3.2 All carpet adhesives shall meet the requirements of Table 4.504.1.

PLUMBING PLAN. DRAIN AND WASTE
SCALE: 1/4" = 1'-0"



- 4.504.2.3 Aerosol paints and coatings shall meet the Product-Weighted MIR Lim4.504.3.2 All carpet adhesives shall meet the requirements of Table 4.504.4. Compliance rate of resilient flooring is increased from 50% to 80%. Related changes are made for Tier 1 and Tier 2 resilient flooring measures. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall comply with one or more of the following:
 1 - VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance Products Database.
 2 - Products compliant with CHPS criteria certified under the Greenguard Children & Schools program.
 3 - Certification under the Resilient Floor Covering Institute (RFCI) Floor Score program.
 4 - Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification O1350).

4.504.5 Hardwood plywood, particle board and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in the Air Resources Board's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et. seq.), or on before the dates specified in those sections as shown in Table 4.504.5. Documentation is required per Section 4.504.5.1.
 Definition of Composite Wood Products: Composite wood products include hardwood plywood, particle board, and medium density fiberboard.
 "Composite wood products" do not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood joists, or finger-jointed lumber, all as specified in CCR, Title 17, Section 93120.1(a).

- 4.504.5.1 documentation, verification of compliance with this section shall be provided as requested by the enforcing agency. documentation shall include at least one of the following:
 1. product certification and specifications
 2. chain of custody certifications
 3. other methods acceptable to the enforcing agency.

SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	750
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420

SEALANT PRIMERS	
Architectural	250
Nonporous	250
Porous	775
Modified bituminous 500	500
Marine deck	760
Other	750

Note: For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 116B.

ADHESIVE VOC LIMIT (1,2)
Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives not specifically listed	50

SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250

SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

- 1. If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be allowed.
- 2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 116B, see South Coast Air Quality Management District Rule 116B.

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REVISIONS

SUBMITTAL

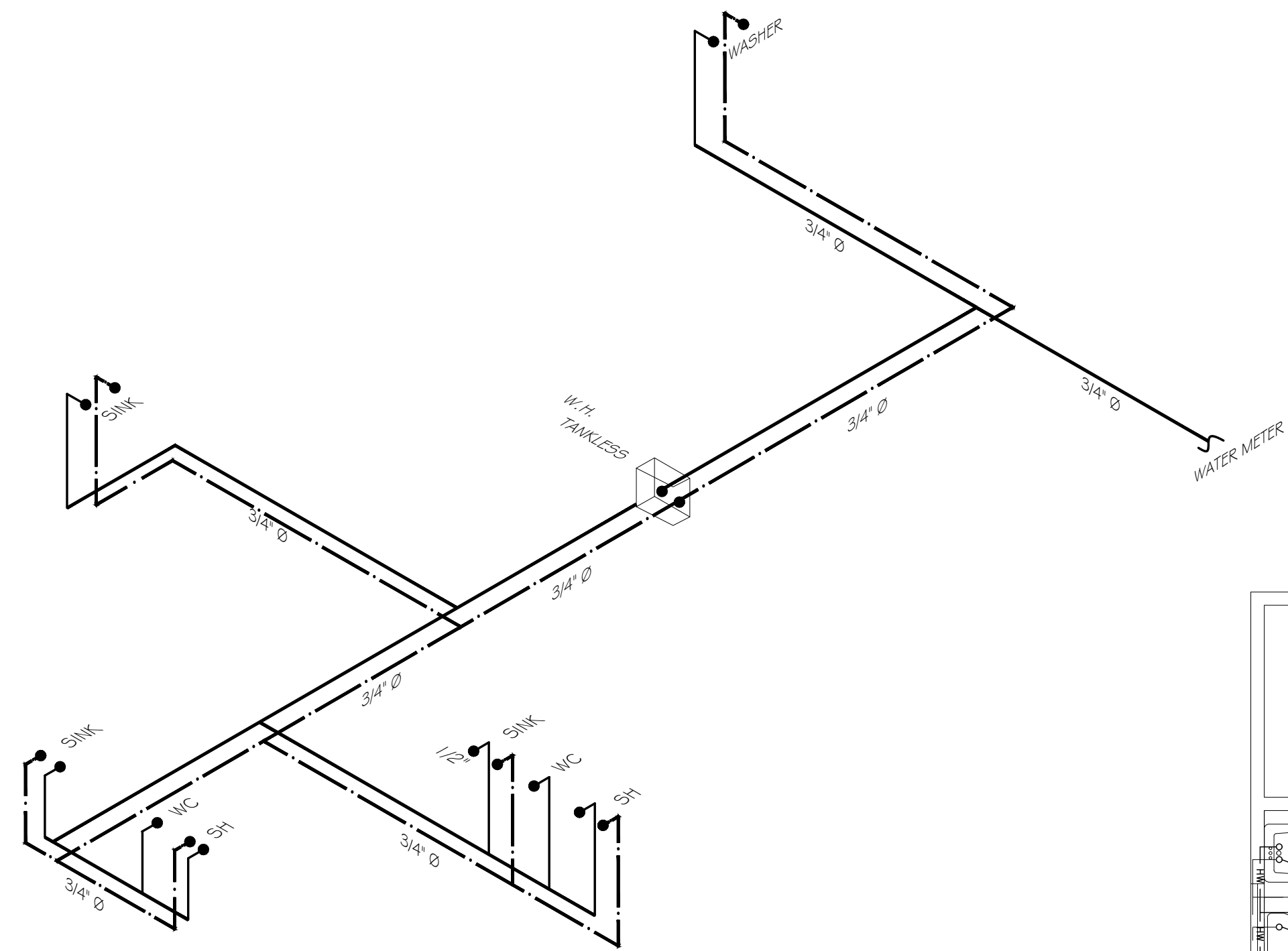
SCOPE OF WORK
NEW ADU
635 N MAPLE AVE,
RIALTO, CA 92376
APR: 0243-151-71

APPLICANT / OWNER
RAYMOND RAMIREZ

PLAN NAME
**PROPOSED
PLUMBING PLAN
"ADU"**

SHEET No.
A-7

SCALE
AS SHOWN
DATE PLOT
5/23

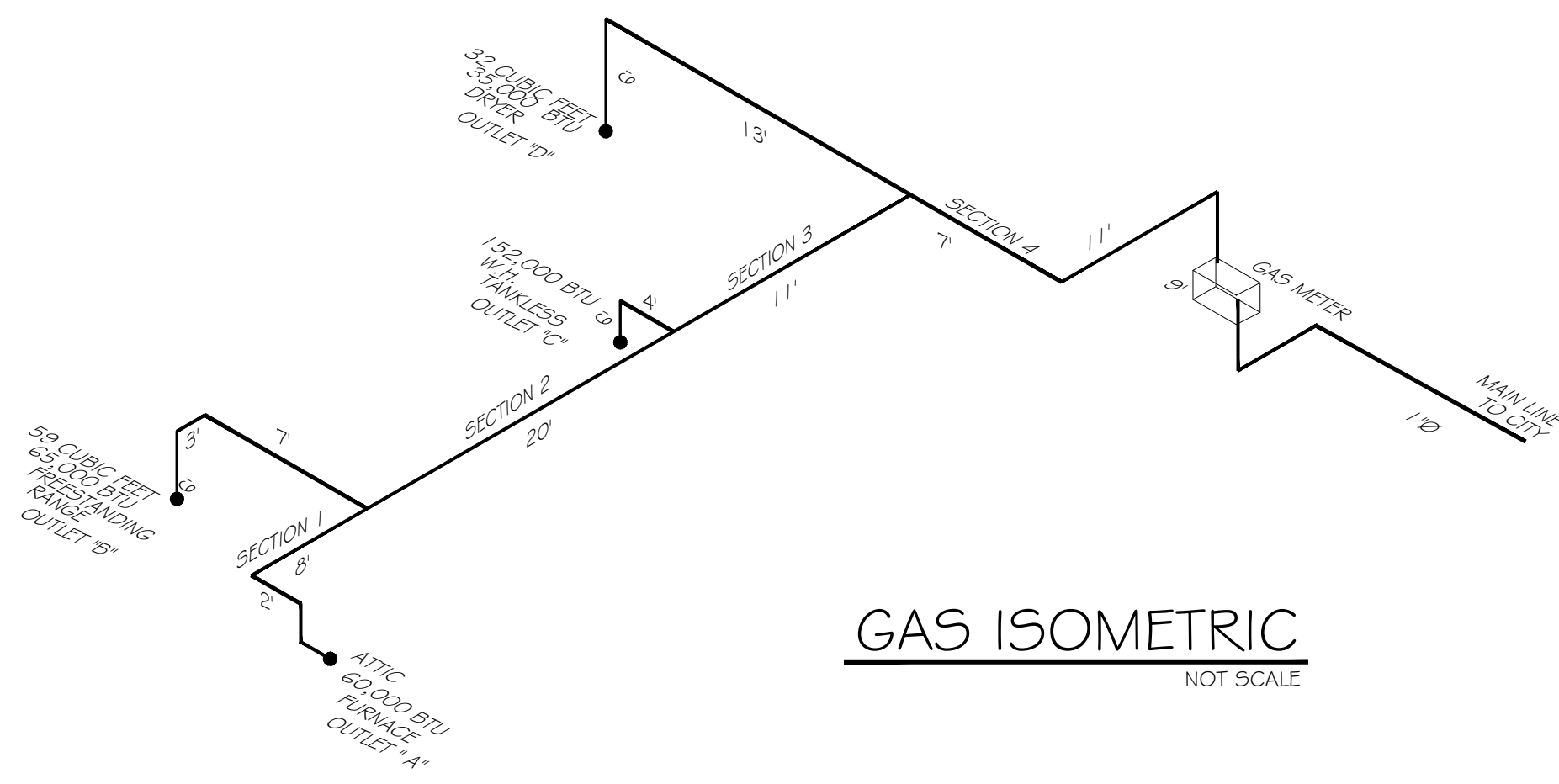


HOT AND COLD WATER ISOMETRIC
NOT SCALE

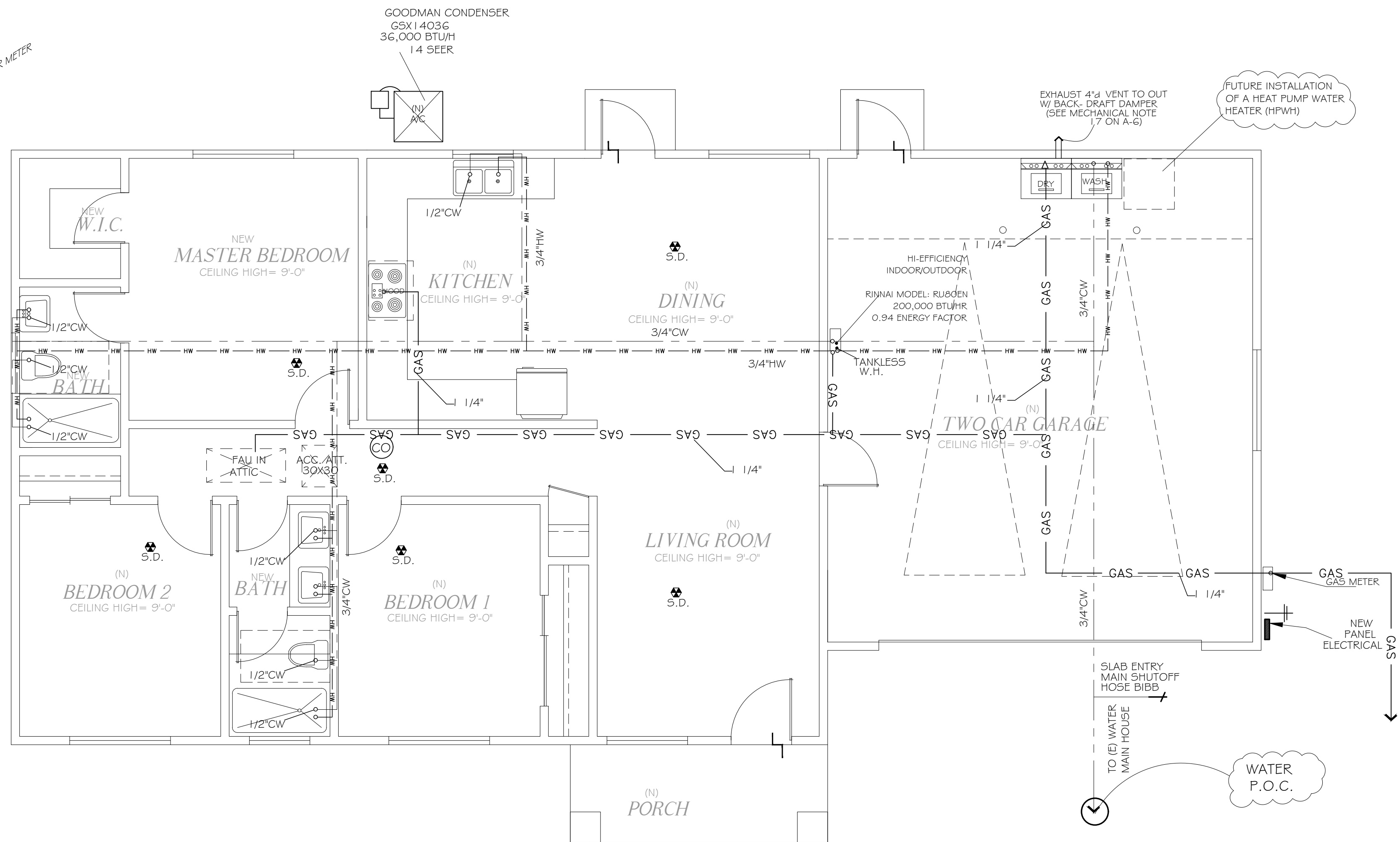
GAS LINES SIZES
PER TABLE 1208.4.1

OUTLET 'A' =	FAU	= 100,000 BTU/H = 91 CFH
OUTLET 'B' =	RANGE	= 65,000 BTU/H = 59 CFH
OUTLET 'C' =	WH	= 152,000 BTU/H = 139 CFH
OUTLET 'D' =	DRYER	= 35,000 BTU/H = 32 CFH

MOST REMOTE OUTLET = 60'
PER TABLE 1216.2(1)
OUTLET 'A' = 91 CFH = 3/4" PIPE
SECTION 1 = 91 CFH = 3/4" PIPE
OUTLET 'B' = 59 CFH = 3/4" PIPE
SECTION 2 = OUTLET A+B = 91+59 = 150 CFH = 1" PIPE
OUTLET 'C' = 139 CFH = 1" PIPE
SECTION 3 = OUTLETS A+B+C = 91+59+139 = 289 CFH = 1 1/4" PIPE
OUTLET 'D' = 32 CFH = 1/2" PIPE
SECTION 4 = OUTLETS A+B+C+D = 59+91+139+32 = 321 CFH = 1 1/4" PIPE



GAS ISOMETRIC
NOT SCALE



PLUMBING PLAN. HOT AND COLD WATER

SCALE: 1/4" = 1'-0"

WATER AND GAS KEYNOTES

1. PROVIDE ANTI-SIPHON VALVE AT MAIN WATER HOSE BIB AND SHUT-OFF AT EXTERIOR OF DWELLING.
2. PROVIDE PRESSURE REGULATOR AT SHOWER TUB.
3. HVAC EQUIPMENT, WATER HEATER, SHOWERHEADS AND FAUCETS TO BE CERTIFIED BY C.E.C.
4. PROVIDE PRESSURE RELIEF VALVE AT WATER HEATER WITH DRAIN TO OUTSIDE.
5. PROVIDE SEISMIC STRAPS AT WATER HEATER WITHIN THE UPPER 1/3 AND LOWER 1/3 LAG-BOLT TO FRAMING MEMBER.

PLUMBING MATERIALS AND SIZES

WASTE - ABS (DWV) NSF RATING W/ DIA.: 4", 3", 2", 1-1/2"
HOT/COLD WATER - RIGID COPPER, SOLDERING PIPES W/ DIA.: 1-1/2", 1-1/4", 1", 3/4", 1/2" OR APPROVED PEX PIPING
GAS - BLACK IRON GAS PIPES W/DIA.: 1-1/2", 3/4"

SPECIFICATIONS:

MFG: UPONOR PLUMBING SYSTEM
PRODUCT: AquaPEX piping
FITTING: UPONOR ProPEX LEAD FREE (LF) BRASS FITTINGS
ANSI/UL: 263 STANDARD FOR SAFETY FOR FIRE TEST OF BUILDING CONST. # MATERIALS.
ICC No. ESR 1099

OUTDOOR WATER USE

IRRIGATION CONTROLLERS, AUTOMATIC IRRIGATION SYSTEM CONTROLLERS FOR LANDSCAPING PROVIDED BY THE BUILDER AND INSTALLED AT THE TIME OF FINAL INSPECTION SHALL COMPLY WITH THE FOLLOWING:
1. CONTROLLERS SHALL BE WEATHER OR SOIL MOISTURE -BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE
2. WEATHER- BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSOR OR COMMUNICATIONS SYSTEM THAT ACCOUNT FOR LOCAL RAINFALL SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR WHICH CONNECTS OR COMMUNICATES WITH THE CONTROLLERS. SOIL MOISTURE - BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT.

TANKLESS WATER HEATER INSTALLATION

1. FOLLOW ALL LOCAL CODES. OR IN THE ABSENCE OF LOCAL CODES, FOLLOW THE MOST RECENT EDITION OF THE NATIONAL FUEL GAS CODE: ANSI Z223.1/NFPA 54 IN THE USA OR CAN/CSA B149.1 NATURAL GAS PROPANE INSTALLATION CODE IN CANADA
2. ALL GAS WATER HEATERS REQUIRE CAREFUL AND CORRECT INSTALLATION TO ENSURE SAFE AND EFFICIENT OPERATION. THIS MANUAL MUST BE FOLLOWED EXACTLY. READ THE "SAFETY GUIDELINES" SECTION.
3. THE MANIFOLD GAS PRESSURE IS PRESENT AT THE FACTORY. IT IS COMPUTER CONTROLLED AND SHOULD NOT NEED ADJUSTMENT.
4. MAINTAIN PROPER SPACE FOR SERVICING. INSTALL THE UNIT SO THAT IT CAN BE CONNECTED OR REMOVED EASILY. REFER TO THE CLEARANCE SECTION ON P.9 FOR PROPER CLEARANCES.
5. THE WATER HEATER MUST BE INSTALLED IN A LOCATION WHERE THE PROPER AMOUNT OF COMBUSTIBLE AIR WILL BE AVAILABLE TO IT AT ALL TIMES WITHOUT OBSTRUCTIONS.
6. THE ELECTRICAL CONNECTION REQUIRES A MEANS OF DISCONNECTIONS, TO TERMINATE POWER TO THE WATER HEATER PRO SERVICING AND SAFETY PURPOSES.
7. DO NOT INSTALL THE UNIT WHERE THE EXHAUST VENT IS POINTING INTO ANY OPENING IN A BUILDING OR WHERE THE NOISE MAY DISTURB YOUR NEIGHBORS. MAKE SURE THE VENT TERMINATION MEETS THE REQUIRED DISTANCE BY LOCAL CODE FROM ANY DOORWAY OR OPENING TO PREVENT THE EXHAUST FROM ENTERING A BUILDING.
8. PARTICLES FROM FLOUR AEROSOL, AND OTHER CONTAMINANTS MAY CLOG THE AIR VENT OR REDUCE THE EFFICIENCY OF THE ROTATING FAN AND CAUSE IMPROPER BURNING OF THE GAS. REGULARLY ENSURE THAT THE AREA AROUND THE UNIT IS DUST OR DEBRIS FREE; REGULAR MAINTENANCE IS RECOMMENDED FOR THESE TYPES OF THE ENVIRONMENT.
9. IF YOU WILL BE INSTALLING THE WATER HEATER IN CONTAMINATED AREA WITH HIGH LEVEL OF DUST, SAND, FLOOR, AEROSOL OR OTHER CONTAMINANTS/CHEMICAL, THEY CAN BECOME AIRBORNE AND THE ENTER AND BUILD UP WITH THE FAN AND BURNER CAUSING DAMAGE TO THE WATER HEATER.
10. FOR THE 110 INDOOR (TKJR2-IN), 310 INDOOR (T-K4-IN) AND 510 INDOOR (T-D2-IN) MODELS:
 - THESE MODELS MAY BE CONVERTED TO A DIRECT-VENT (SEALED COMBUSTION) APPLIANCE BY INSTALLING A DIRECT-VENT CONVERSION KIT PART No.9007667005 (TK-TV10) WHICH WILL BRING IN ALL REQUIRED COMBUSTIBLE AIR FROM OUTSIDE OF THE BUILDING WHEN INSTALLING THE DIRECT-VENT CONVERSION KIT, PLEASE FOLLOW ALL THE INSTRUCTIONS INCLUDED WITH THE KIT.
 - IF THE WATER HEATER IS USED AS DIRECT-VENT APPLIANCE, THE UNIT REQUIRES A 3" COMBUSTIBLE AIR SUPPLY PIPE. THE INTAKE PIPE MUST BE SEALED AIRTIGHT. AIR SUPPLY PIPE CAN BE MADE OF ABS, PVC, GALVANIZED STEEL, CORRUGATED ALUMINUM, CORRUGATED STAINLESS STEEL OR CATEGORY III STAINLESS STEEL.
 - TERMINATING THE VENTING THROUGH AS SIDEWALL IS RECOMMENDED FOR THE DIRECT-VENT SYSTEM.
 - RUNNING THE EXHAUST VENT AND THE INTAKE PIPE PARALLEL IS RECOMMENDED.
 - TERMINATING THE EXHAUST AND INTAKE ON THE SAME WALL/SURFACE IS RECOMMENDED. TERMINATING IN THE SAME PRESSURE ZONE ALLOWS FOR PRESSURE BALANCING WHICH PREVENTS THE NUISANCE SHUTDOWNS.
11. FOR THE OUTDOOR (T-KJR2-O5), 310 OUTDOOR (T-K4-O5) AND 510 OUTDOOR (T-D2-O5) MODELS:
 - TO BE INSTALLED OUTDOORS AND ONLY IN AREAS WITH MILD, TEMPERATURE CLIMATES.

DESIGNER:
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REVISIONS

NO.	DATE	DESCRIPTION

SCOPE OF WORK:
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AFFICANT / OWNER
RAYMOND RAMIREZ

PLAN NAME
HOT, COLD WATER & GAS LINE PLAN "ADU"

SHEET No.
A-8

SCALE
AS SHOWN

DATE PLOT
5/23