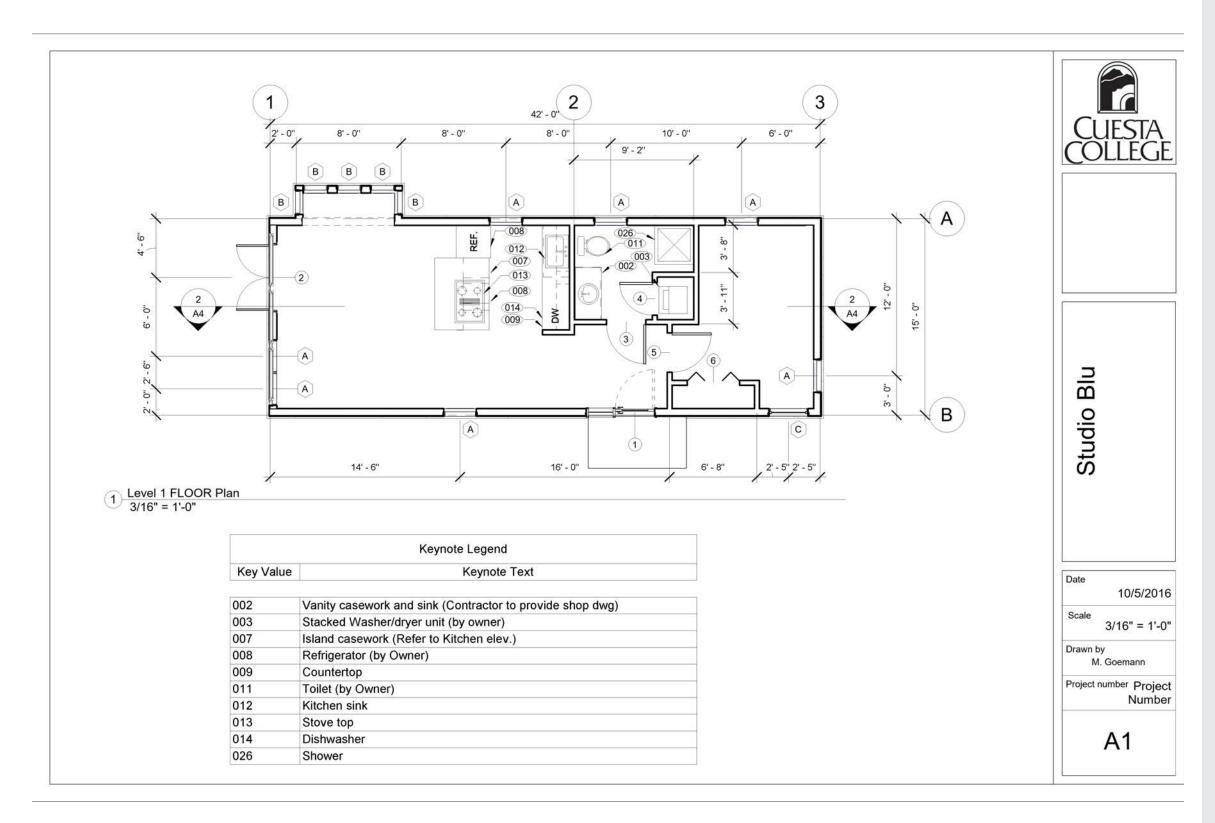


CONSTRUCTION DOCUMENTS PORTFOLIO M. GOEMANN



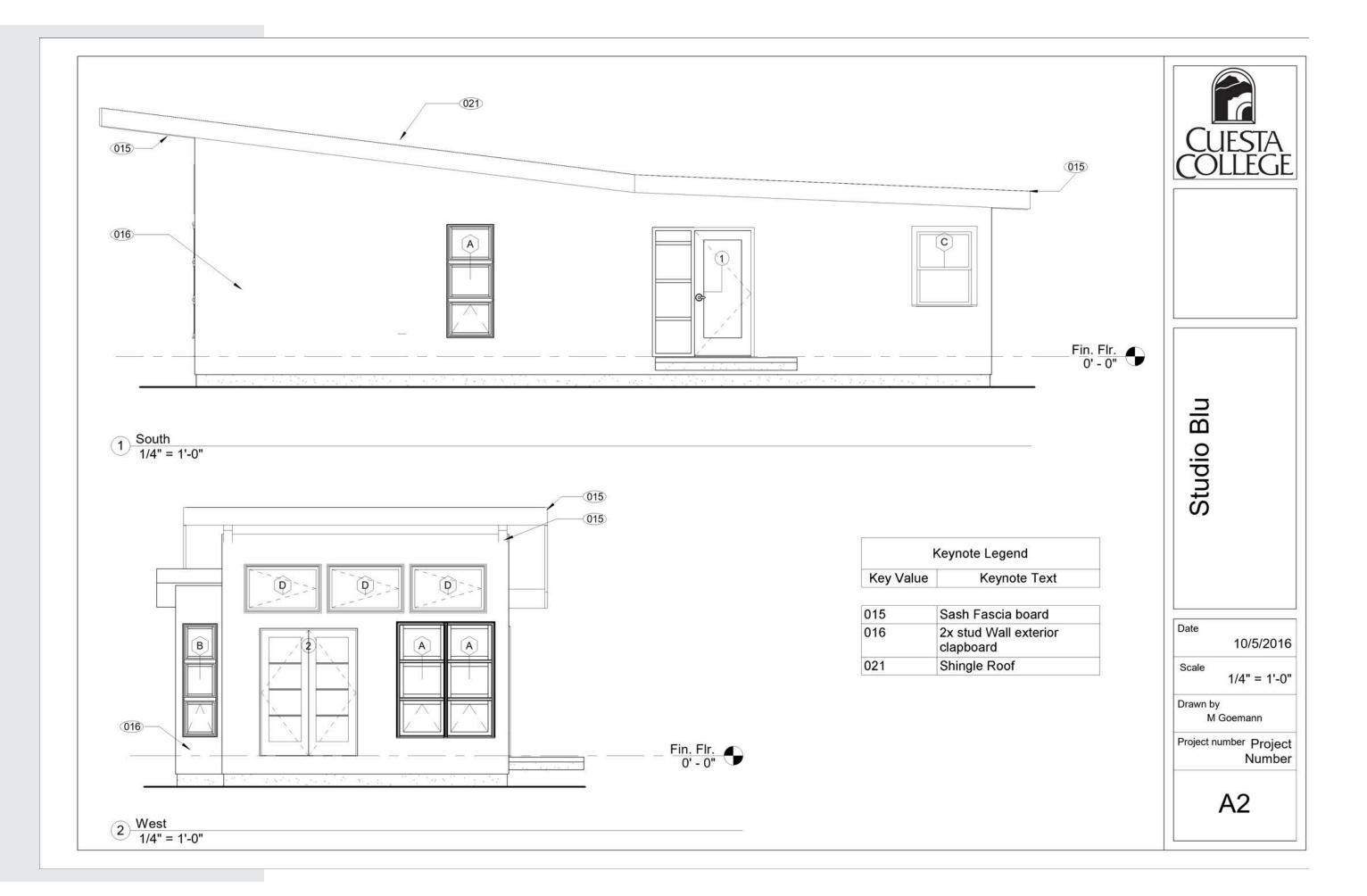
CONSTRUCTION DOCUMENTS

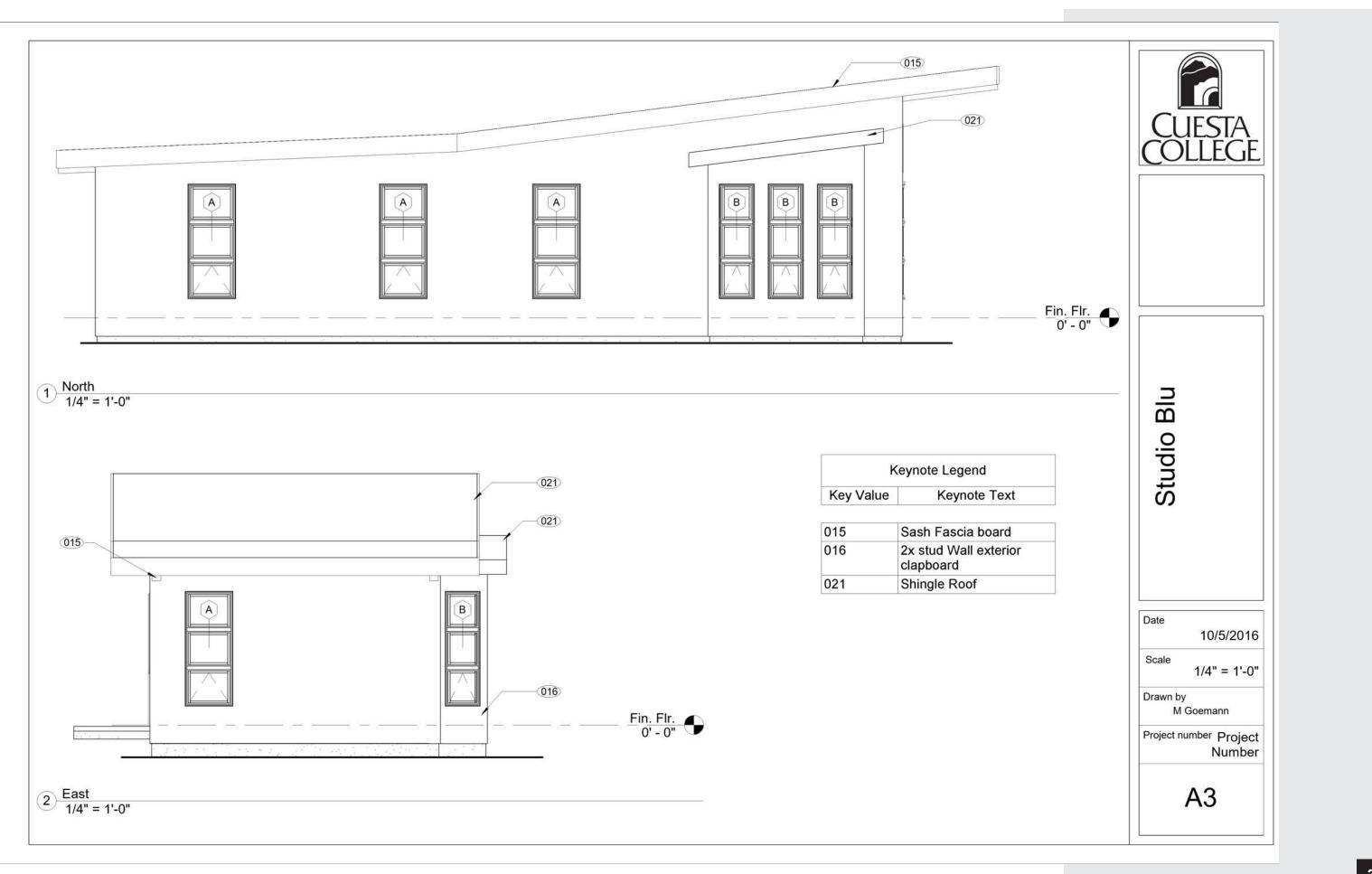
STUDENT WORK	
STUDIO BLU	I
IBLE OFFICE SPACE	10
PROFESSIONAL WORK	
167 PALA VISTA DR	18
709 STANLEY	22
798 SAXONY RD	28

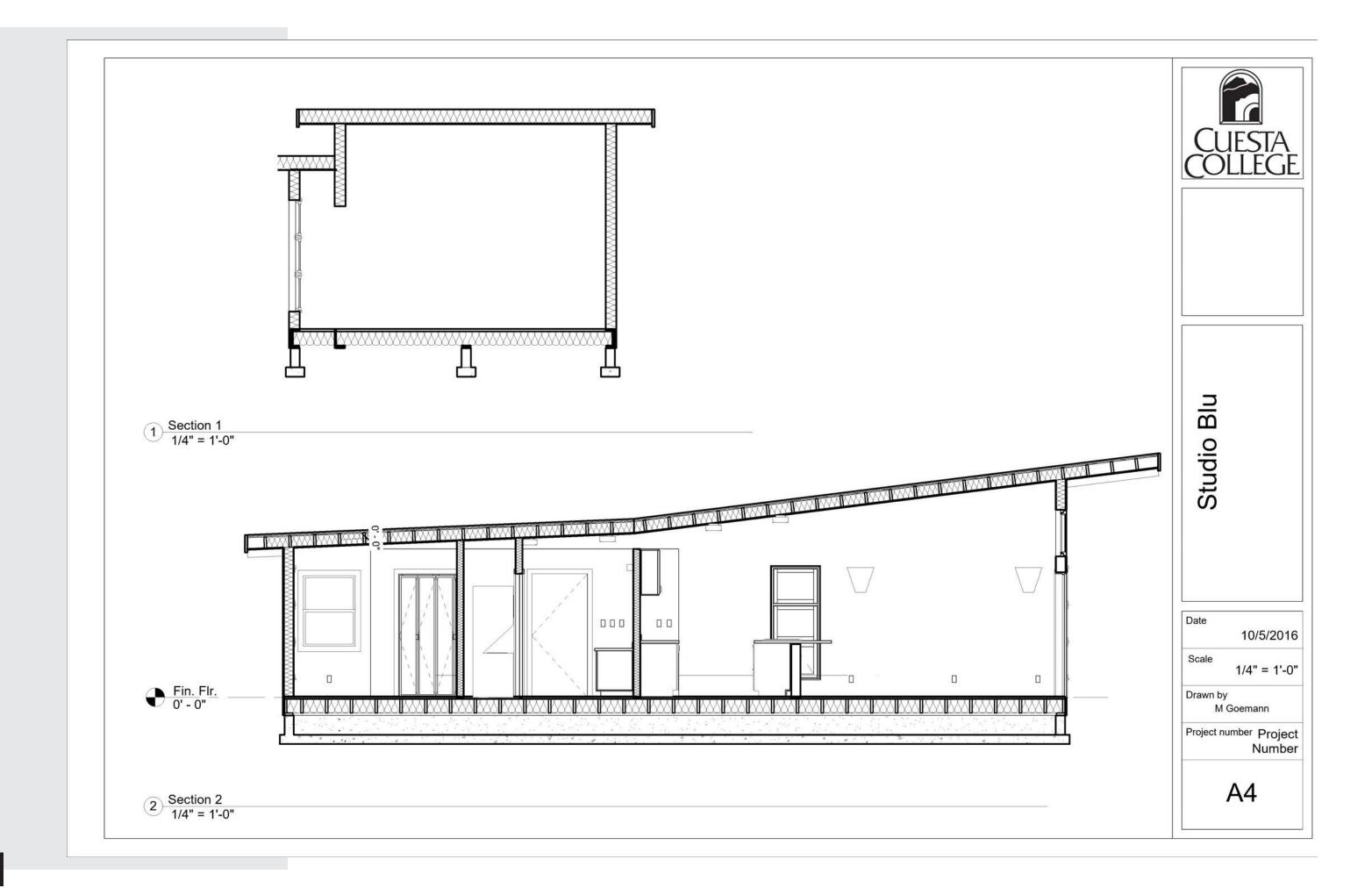


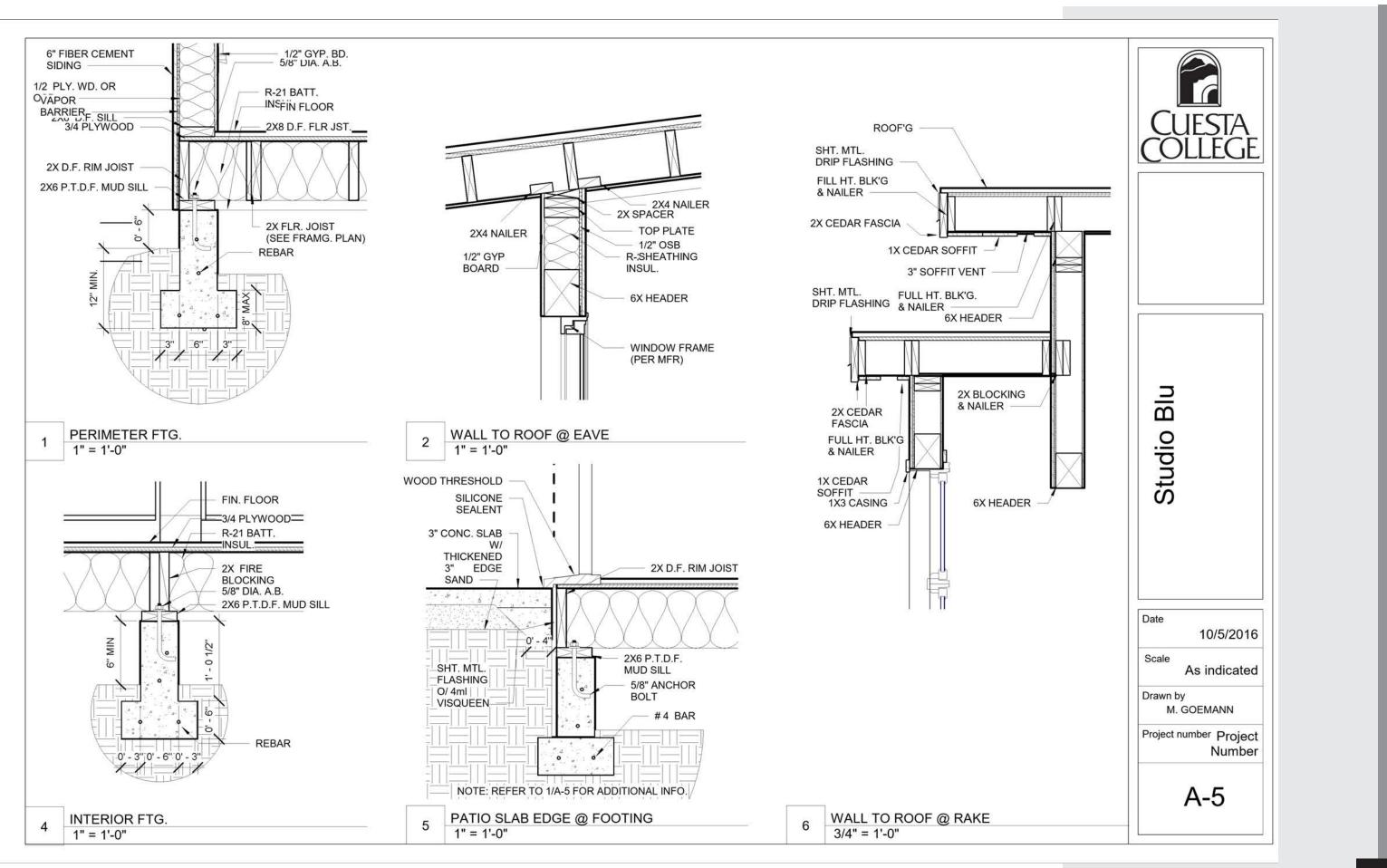
STUDIO BLU

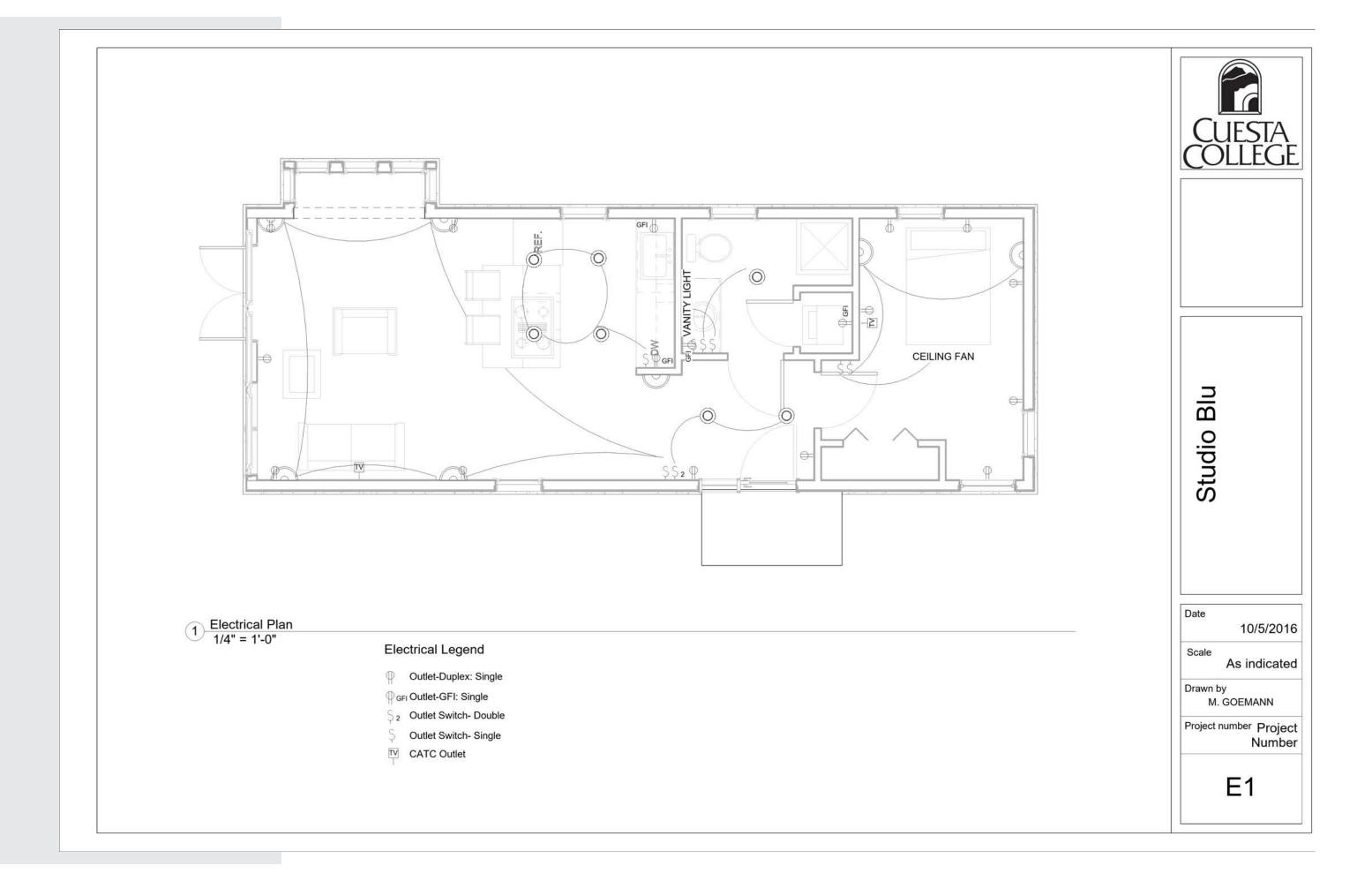
This was a semester-long project. The goal was to create a BIM and produce construction documents that used the Studio Blu template, which was available online. The main emphasis was creating sheets and details to explain the digital model. This class helped further the development of the Revit skill set while also introducing professional expectations to student work.

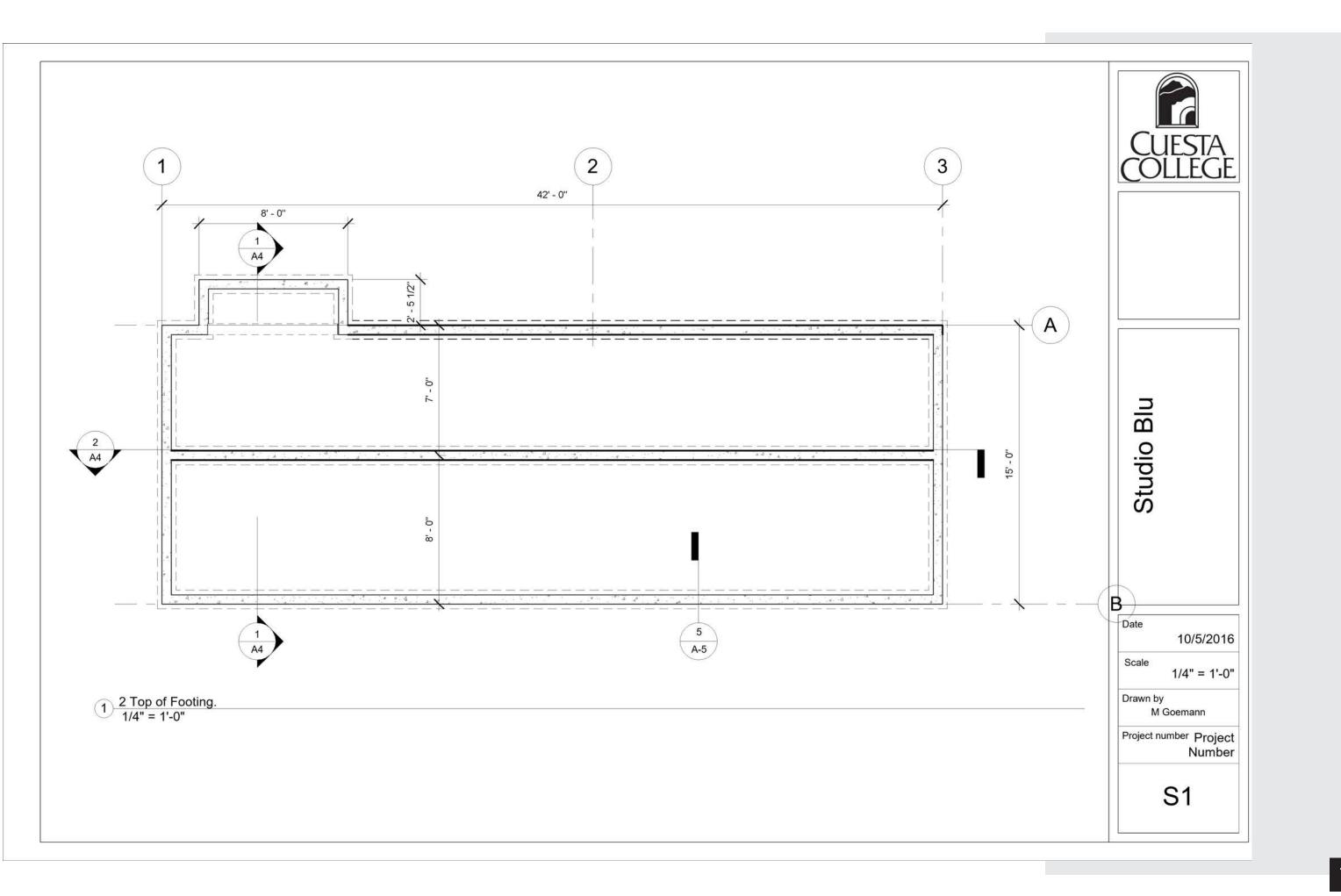


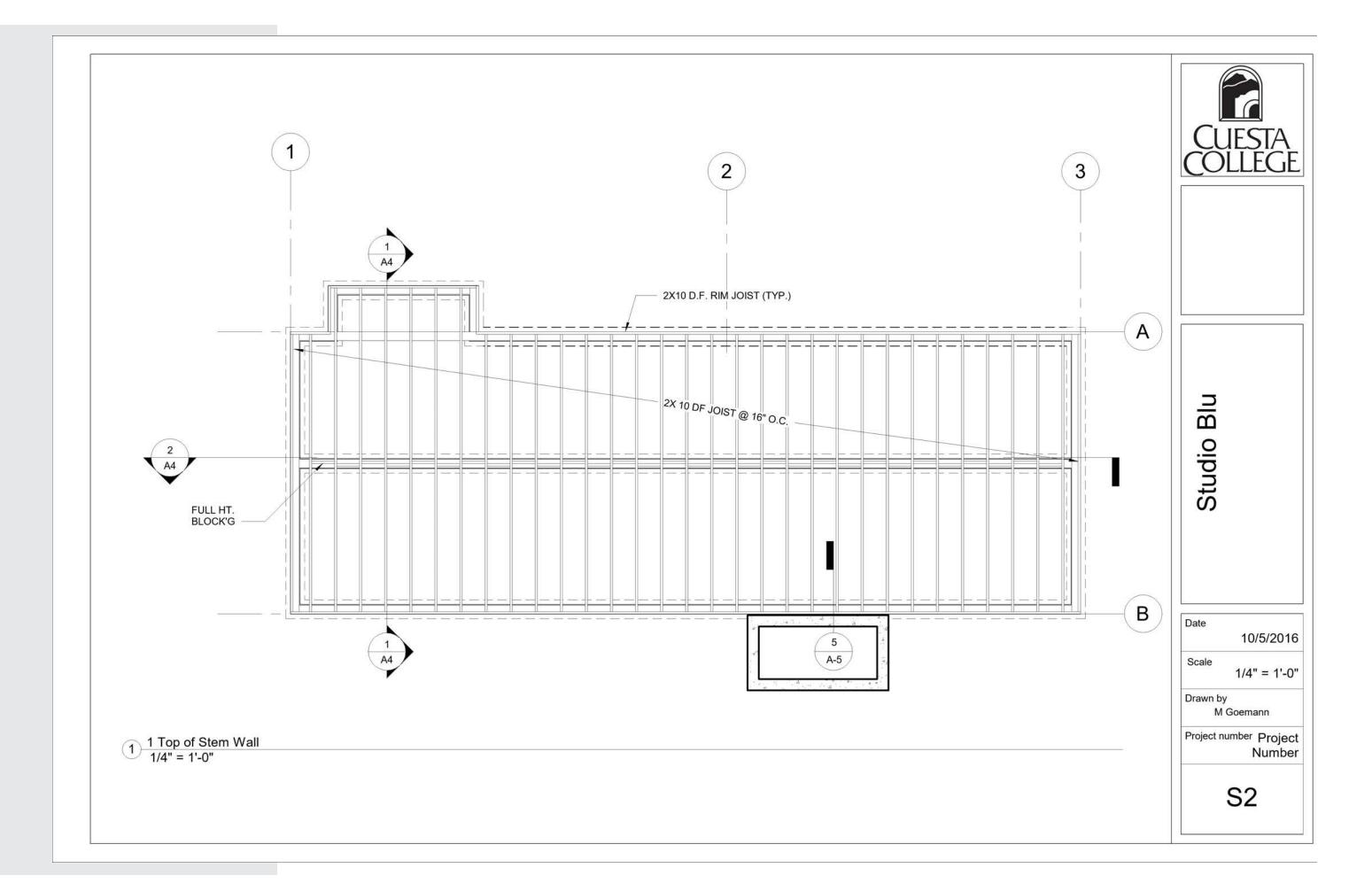


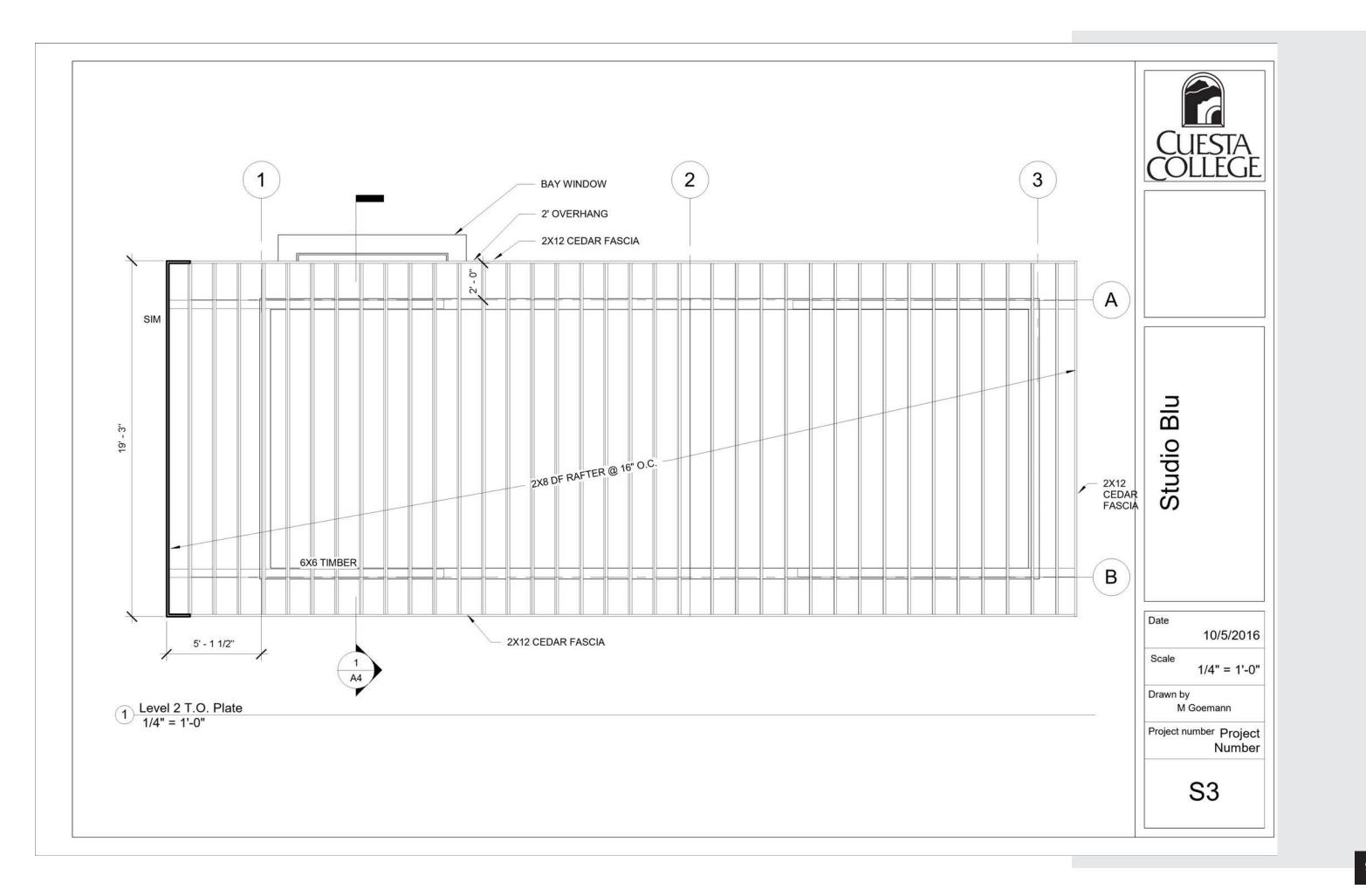












IBLE OFFICE SPACE

This was a quarter-long project, during which time I had two partners: Minghui Li and Charlie Ngov.

Ming provided the plan from another assignment he had worked on in Autocad. I drafted it in Revit. Ming put in the trusses and helped with the HVAC layout. Charlie did research and presentation board layout.

I color-coded and drafted the rest of the project. I also did the RCP, the Fire Sprinkler Plan, and sheeted the final result.



THE DISCHARGE OF POLLUTANTS TO ANY STORM DRAINAGE SSTEM IS PROHIBITED. NO SOLID WASTE, PETROLEUM BYPRODUCTS, SOLI PARTICULATE, CONSTRUCTION WASTE MATERIALS OR WASTEWATER GENERATED ON CONSTRUCTION SITES OR BY CONSTRUCTION ACTIVITIES SHALL BE PLACED, CONVEYED OR DISCHARGED INTO THE STREET, BUTTER OR STROM DRAIN SYSTEM. FILTER WATER WITH BARRIERS AT ENTANCE TO STORMWATER SYSTEMS.

NORTH COUNTY SORM WATER PROGRAM WILL BE FOLLOWED.

FINISH GRADE WITHIN TEN FEET OF THE NEW STRUCTURE/ADDITION MUST SLOPE AWAY FROM BUILDING MINIMMUM SIX INCES IN FIRST TEN FET FOR DRAINAGE PURPOSES.

A FOUNDATION FORMS CERTIFICATION THAT IS CERTIFIED BY A LICENSED LAND SURVEYOR MAY BE REQUIRED BY THE BUILDING INSPECTOR AT THE FIRST FOOTING INSPECTION.

IF THE BUILDING INSPECTOR SUSPECTS FILL, EXPANSICE SOIS OR ANY GEOLOGICLA INSTABILITY BASED UPON OBSERVATION OF THE FOUNDATION EXCAVATION, A SOILS OR GEOLOGICAL REPORT MAY BE REQUIRED AND IS TO BE RESUBMITTED AT PLAN CHECK TO VERIFY THAT REPORT RECOMMENDATIONS HAVE BEEN INCORPORATED.

 10	

(1)



Minghui Li, Charlie Ngov, Megan Goemann

IBLE OFFICE SPACE

POPOSED BUILDING

ZONE 1 = LOBBY: 918 SF ZONE 2 = MAIN OFFICE SPACE: 3058 SF ZONE 3 = LARGE CONFERENCE ROOM: 446 SF ZONE 5 = SMALL CONFERENCE ROOM: 375 SF ZONE 6 = TWO ADU BATHROOMS: 30 SF EA. TWO BATHROOMS: 30 SF EA. ZONE 7 = MECHANICAL CLOSET: 71 SF

TOTAL SF: 5,045 SF

SITE INFORPATION

A.P.N. : 148-241-06-01 LOT: 10 ZONE : C-2 LOT AREA: 10,270 SF CONSTUCTION TYPE: OCCUPANCY: 52 PEOPLE MAX PROJECT SERVICED BY: SDG&E, MUNICIPAL SEWER

SOPE OF WORK: NEW CONSTRUCTION

SHEET INDEX

T100 COVER A100 DIMENSION FLOOR PLAN M100 HVAN TRADE OFF TABLE M101 HVAC PLAN M102 2 HVAC SECTIONS M103 HVAC SECTION M104 DETALL 1 – LINEAR SUPPLY DIFUSTER E100 REFLECTED CELLING PLAN F100 FIRE SPRINKLER PLAN

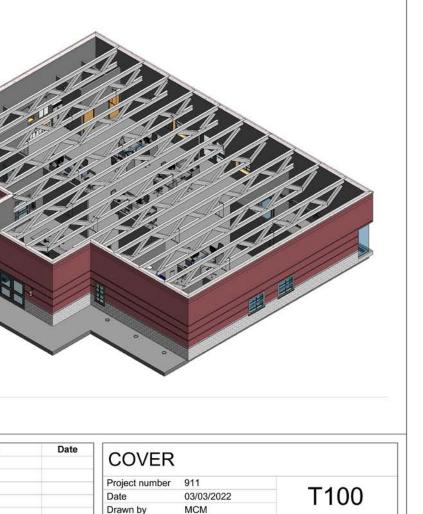
PROJECT DIRECTORY

Checked by

OWNER: IBLE Team ARCHITECTS: MCM STRUCTURAL ENGINEER: KPFF ENERGY TECHNICIAN: CLEANTECH SOLUTIONS

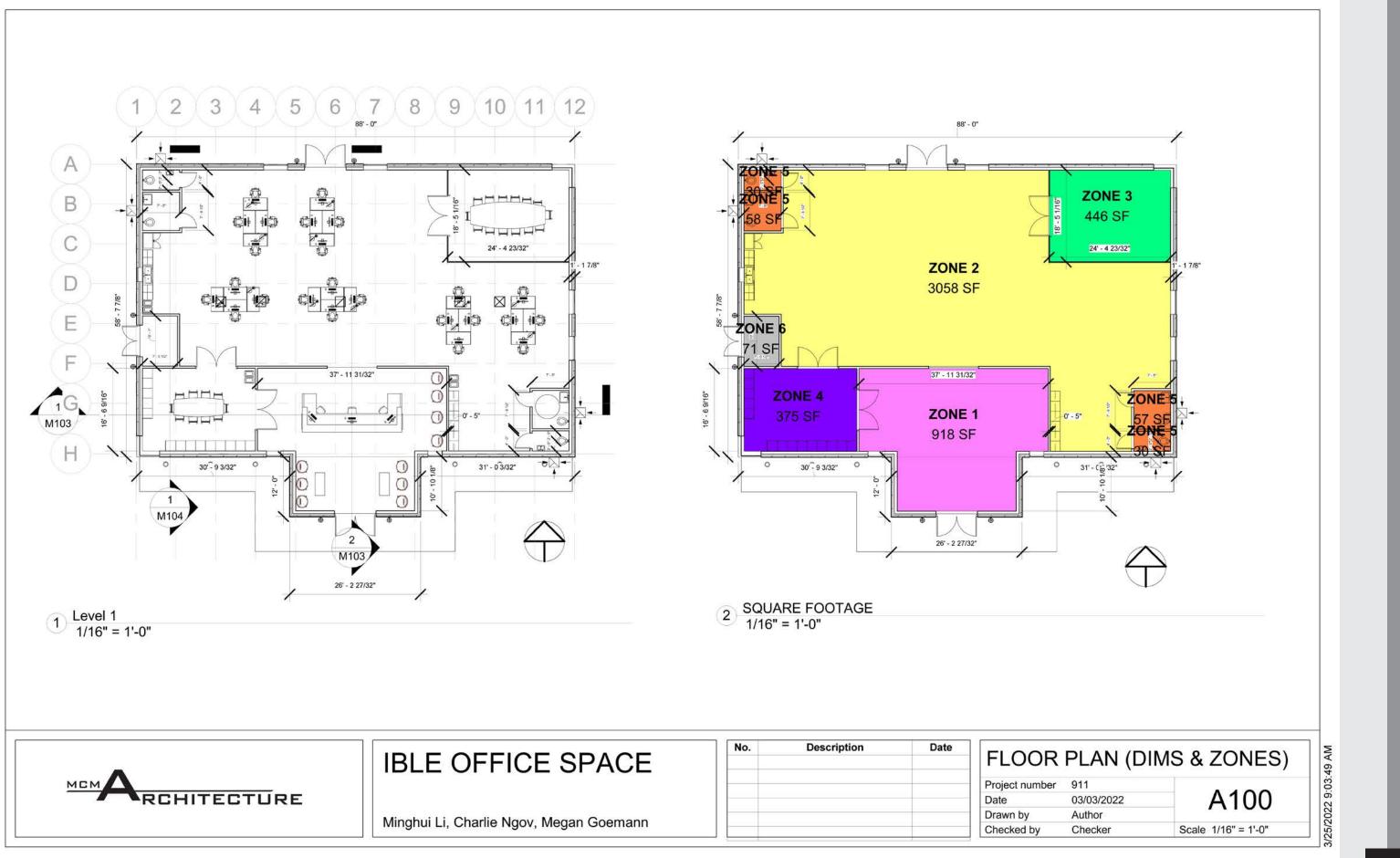
COMPLIANCE

2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA BUCTRICAL CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA FIRE CODE SECTION 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYLCLING CITY OF OCEANSIDE MUNICIPAL CODE



KUZMA

Scale



TRADE OFF TABLE

Heating and Cooling Systems for Large Buildings: Summary Chart †

Give Special Consideration to the Systems Indicted if You Want to:	Variable air Volume (VAV) [page 168]	Variable air Volume (VAV) Reheat [page 169]	Variable air Volume (VAV) Induction [page 169]	Dual-duct Variable air Volume (VAV) [page 169]
Chiller Location	Central Mechanical Room	Central Mechanical Room	Central Mechanical Room	Central Mechanical Room
Boiler Location	Central Mechanical Room	Central Mechanical Room	Central Mechanical Room	Central Mechanical Room
Fan Room Required?	Yes	Yes	Yes	Yes
Cooling Tower Required?	Yes	Yes	Yes	Yes
Distribution Type	Ducts	Ducts	Ducts	Ducts
Return air	Return Ducts to Fan Room	Return Ducts to Fan Room	Return Ducts to Fan Room	Return Ducts to Fan Room
Delivery System	Ducts to VAV box to Diffusers	Ducts to VAV box to Diffusers	Ducts to VAV box to Diffusers	Ducts to VAV box to Diffusers
Location of Delivery Unit	VAV Box above Dropped Ceiling	VAV Box above Dropped Ceiling	VAV Box above Dropped Ceiling	VAV Box above Dropped Ceiling
Minimize First Cost				
Minimize Operating Cost and Energy Consumption	•			
Maximize Control of air Velocity and Energy consumption	•		0	0
Maximize Individual Control over Temperature	•	•	0	0
Minimize System Noise	•	•		0
Minimize Visual Obtrusiveness	•	•	0	0
Maximize Flexibility of Rental Space	•	•	0	
Minimize Floor Space Used for the Heating and Cooling Systems			0	
Minimize Floor-to-Floor Height				
Minimize System Maintenance	•			
Avoid Having a Chimney _a	●b	• _b .	Ob	Ob
Maximize the Speed of Construction				

DESCRIPTION

AIR IS CONDITIONED (MIXED WITH A PERCENTAGE OF OUTDOOR AIR, FLITERED, HEATED OR COOLED, AND HUMIDIFIED OR DEHUMIDIFIED) AT A CENTRAL SOURCE. SUPPLY AND RETURN FANS CIRCULATE THE CONDITIONED AIR THROUGH DUCTS TO THE OCCUMPIED SPACES OF THE BUILDING. AT EACH ZONE, A THERMOSTAT CONTROLS ROOM TEMPERATURE BY REGULATING THE COLUME OF AIR THAT IS DISCHARGED THROUGH THE DIFFUSERS IN THE ZONE.

TYPICAL APPLICATIONS

VAV IS THE MOST VERSAITLE AND MOST WIDELY USED SYSTEM FOR HEATING AND COOLING LARGE BUILDINGS.

ADVANTAGES

THIS SYSTEM OFFERS A HIGH DEGREE OF LOCAL TEMPERATURE CONTROL AT MODERATE COST. IT IS ECONOMICAL TO OPERATE AND VIRTUALLY SELF-BALANCING.

DISADVANTAGES

VAV IS LIMTED TO THE RANGE OF HEATING OR COOLING DEMAND THAT MAY BE ACCOMMODATED WITHIN A SINGLE SYSTEM. WHEN ONE AREA OF A BUILDING NEEDS HEATING WHILE ANOTHER NEEDS COOLING, A VAV SYSTEM CANNOT SERVE BOTH AREAS WITHOUT HELP FROM A SECONDARY SYSTEM.



Frequently Used

O Less Frequently Used

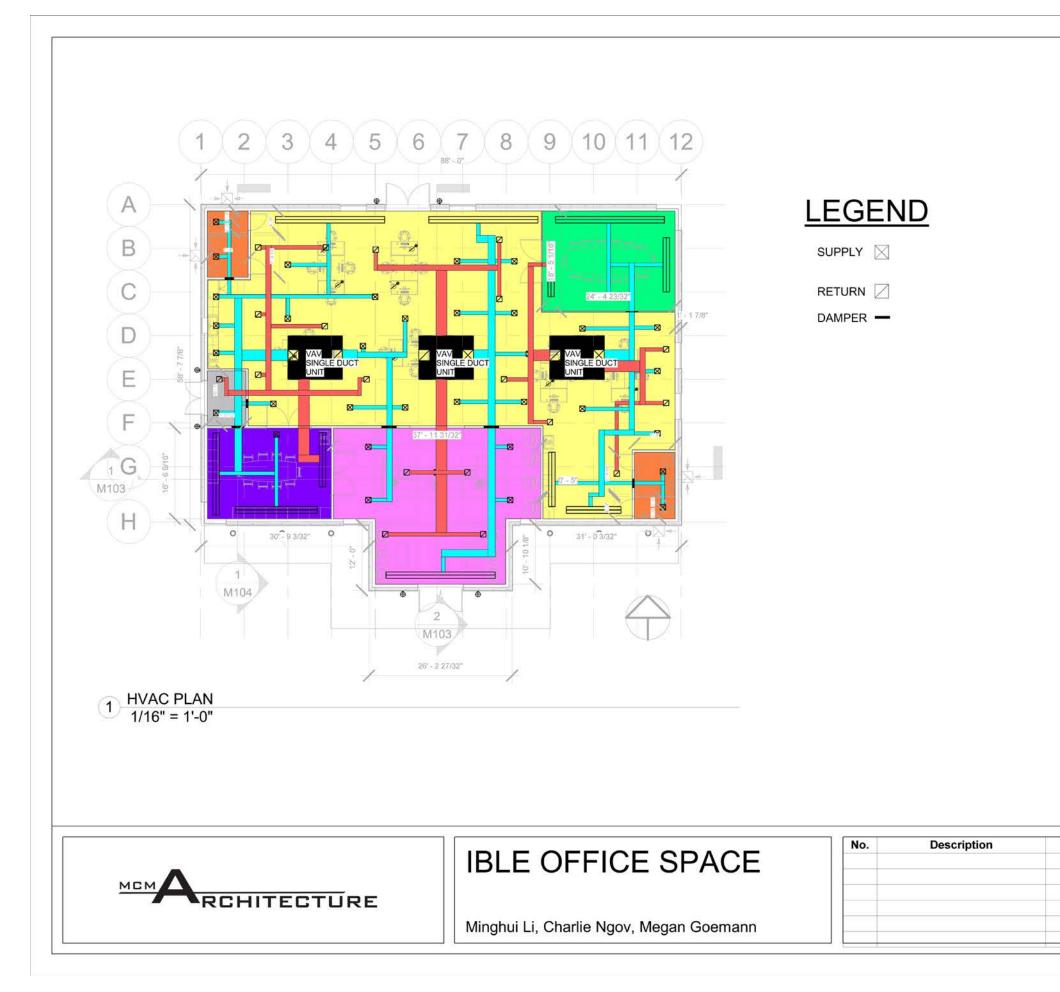
a Condensing Boilers do not require traditional chimneys



IBLE OFFICE SPACE

No.	Description	Date

Minghui Li, Charlie Ngov, Megan Goemann



F	IVAC
Pr	oject nur
Da	ate
Dr	rawn by
CI	hecked h

Date

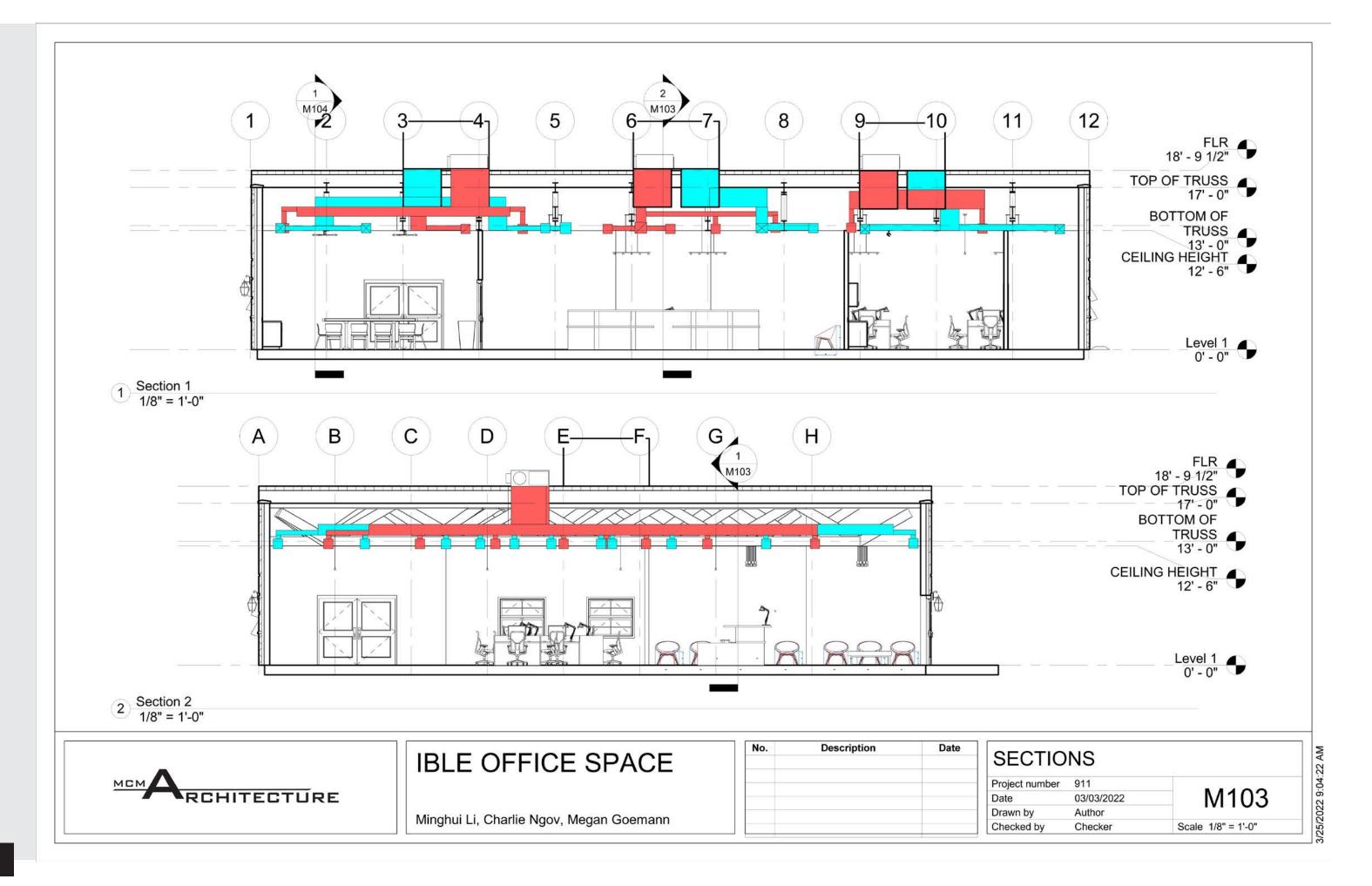
C PLAN

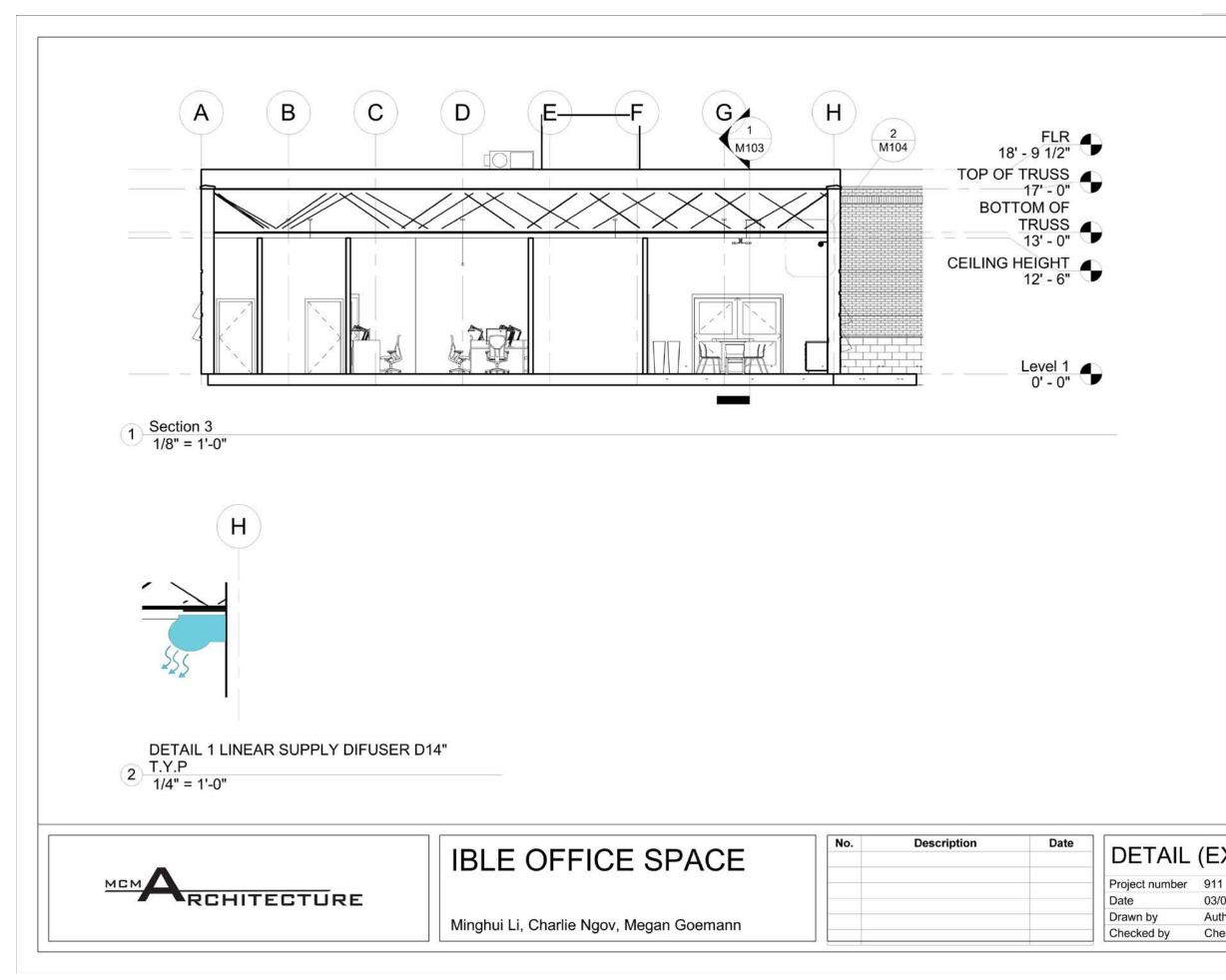
mber 911 03/03/2022 M.C.M. by Kuzma



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DETAIL (EXTRA CREDIT)

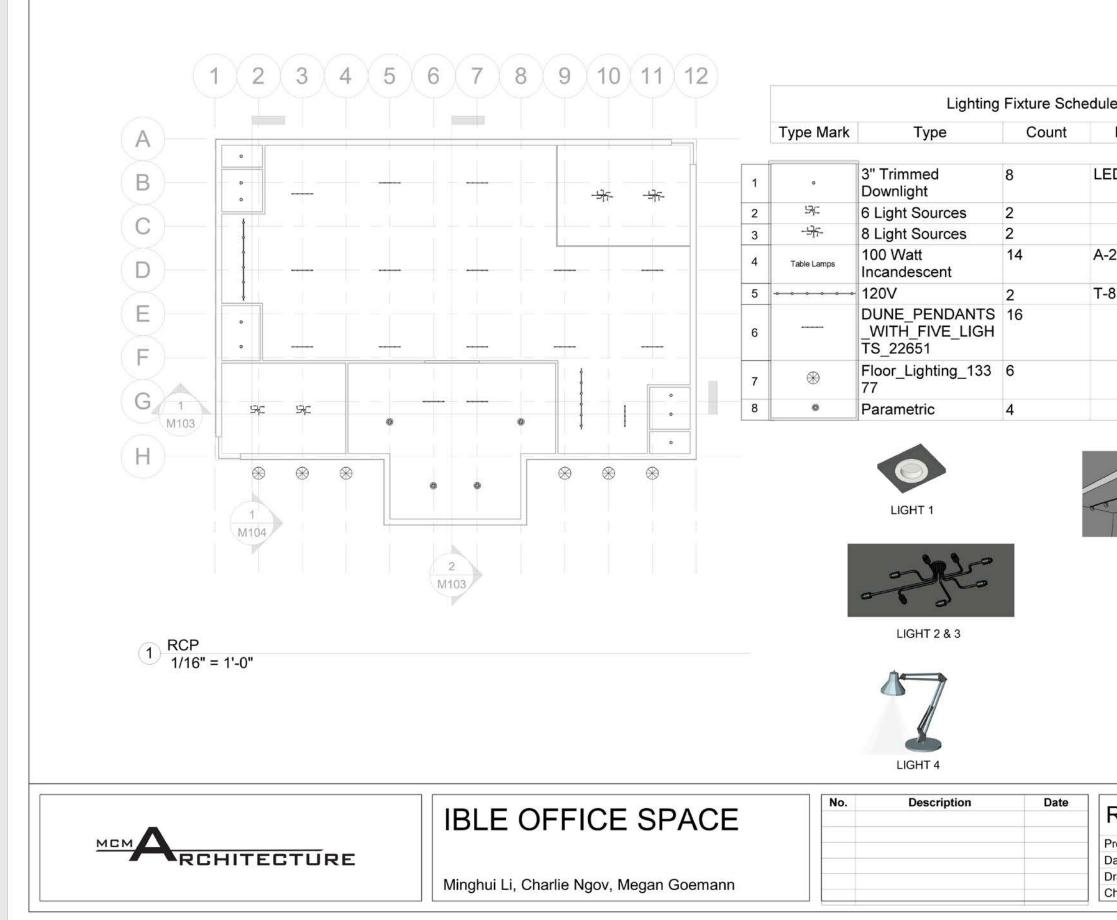
03/03/2022 Author

Checker

Scale As indicated

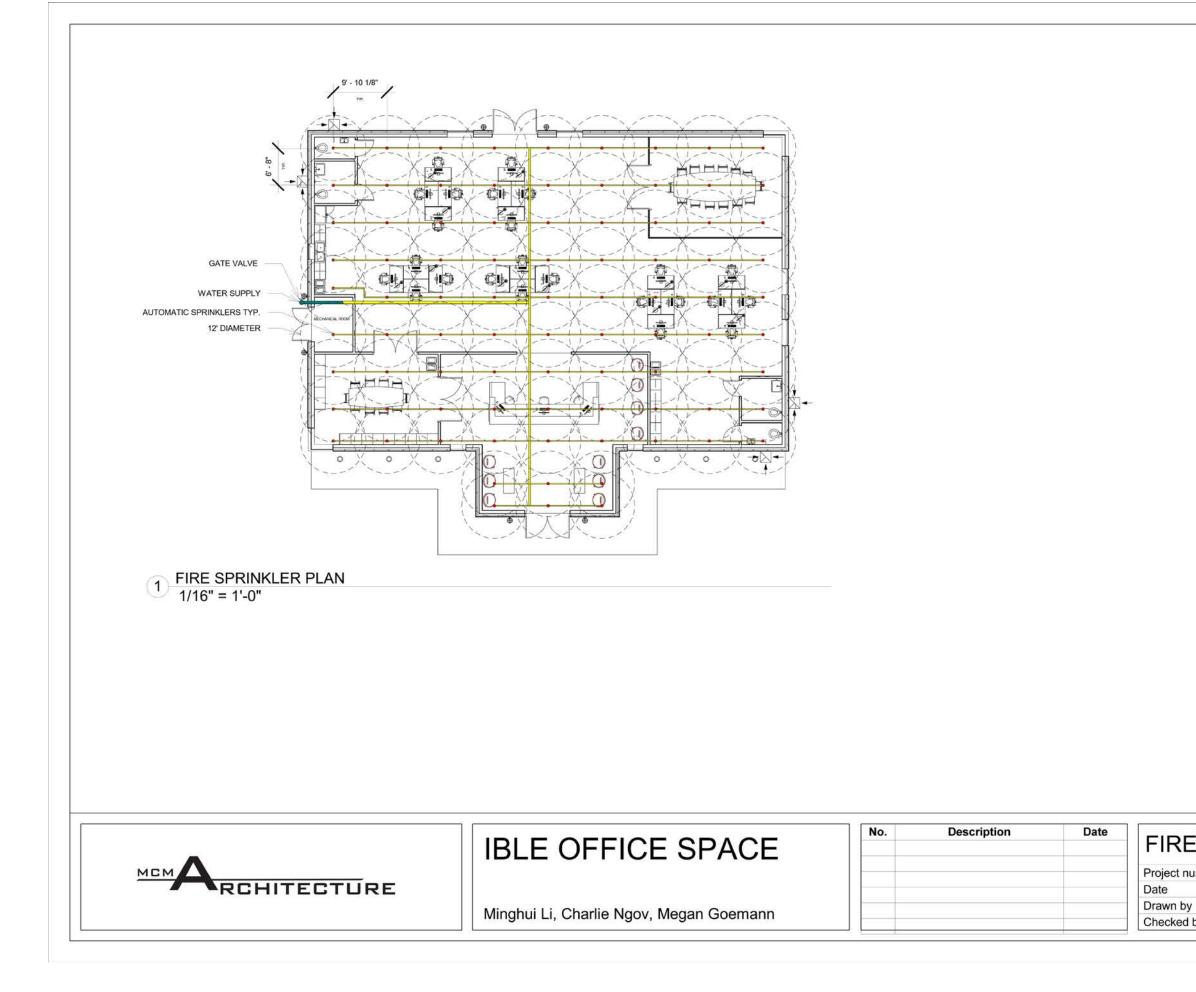
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le		
Lamp	Description	
ED	CAN LIGHTS	
	SMALL CONFERENCE ROOM	
	LARGE CON. ROOM	
-21	TASK LIGHTING	
8	TASK LIGHTING	
	AMBIENT LIGHTING	
	EXTERIOR ACCENT LIGHTS	
	ENTRANCE CHANDELIERS	
8 9	00	LIGHT 7
	GHT 5 GHT 6	LIGHT 8
RCP		

RCP			55 AM
Project number	911		03.6
Date	03/03/2022	E100	2 9
Drawn by	Author	=	50
Checked by	Checker	Scale 1/16" = 1'-0"	25/2



FIRE SPRINKLER PLAN

Project number911Date03/03/2022Drawn byAuthorChecked byChecker

F100 Scale 1/16" = 1'-0" 3/25/2022 9:04:01 AM

167 Pala Vista Dr.

SITE INFORMATION A.P.N.: 179-122-26-00 ZONE: DNTN VISTA SPEC PLAN PASEO SANTA FE DISTRICT LOT AREA: 8712 S.F. CONSTRUCTION TYPE: VB NON-SPRINKLERED OCCUPANCY: R-3, U PROJECT SERVICED BY: SDG&E, MUNICIPAL SEWER

EXISTING BUILDING INFORMATION THE EXISTING BUILDING IS NOT FIRE SPRINKLERED

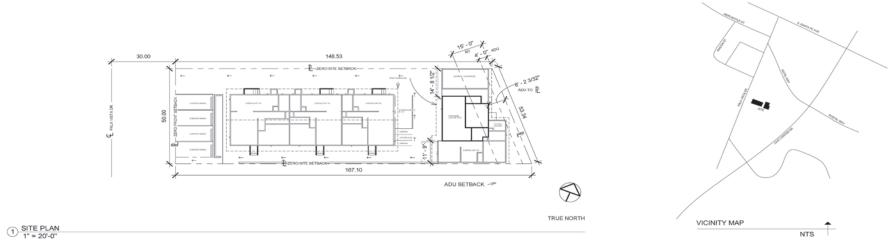
THE EXISTING BUILDING IS NOT FIRE SPRIN BUILT: EXISTING RESIDENCES (R-3 OCC): 2600 S.F. EXISTING ONE CAR GARAGE: 155 S.F. EXISTING TWO CAR GARAGE: 510 S.F. EXISTING BREEZEWAY: 90 S.F. EXISTING BREEZEWAY: 90 S.F. EXISTING LOT COVERAGE: 3852 S.F. =44 %

SCOPE OF WORK: CONVERT 2 CAR GARAGE TO 510 S.F. ONE BEDROOM ACCESSORY DWELLING UNIT PROPOSED RESIDENTIAL TOTAL: 3110 S.F. PROPOSED TOTAL LOT COVERAGE: UNCHANGED

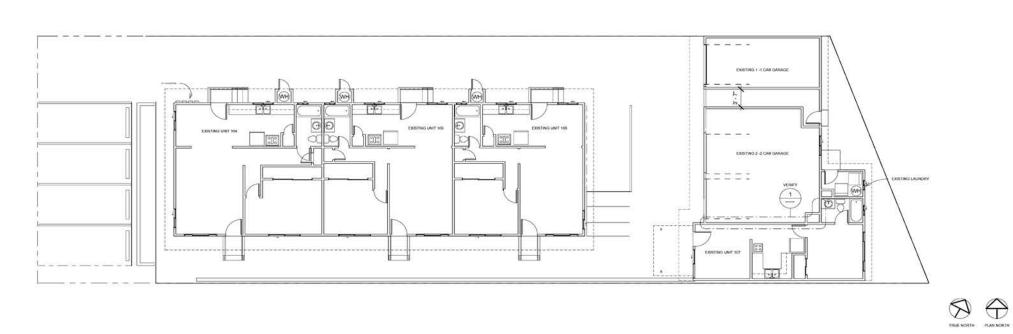
PROPOSED TOTAL LOT COVERAGE: UN SHEET INDEX A1 SITE PLAN VICINITY MAP PROJECT INFORMATION SITE NOTES A2 ARCHITECTURAL NOTES ELECTRICAL NOTES ELECTRICAL LEGEND ALARM NOTES MECHANICAL NOTES MECHANICAL NOTES A3 PROPOSED FLOOR PLAN 1 WALL DETAILS A4 PROPOSED ADU FLOOR PLAN PROPOSED ADU DIMENSION PLAN PROPOSED ADU DIMENSION PLAN PROPOSED ADU LECTRICAL PLAN OPENING SCHEDULES A5 SECTION PROPOSED ROOF PLAN EXTERIOR ELEVATIONS

PROJECT DIRECTORY OWNER: ORLANDO ROLIS 760-802-4493 164 PALA VISTA DR. VISTA CA 92083 ARCHITECT: ANNE PARIZEAU LIC. NO. C19682 760-201-3347 5304 ONTARIO ST. OCEANSIDE CA 92056

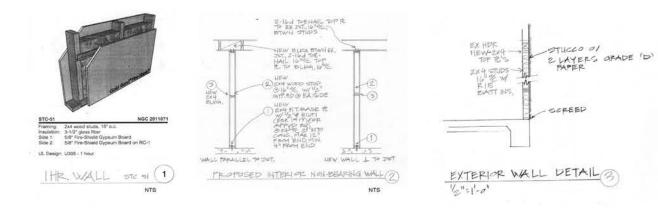
COMPLIANCE PROJECT TO COMPLY WITH: 2019 CALIFORNIA RESIDENTIAL CODE 2019 CALIFORNIA RESIDENTIAL CODE 2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA FULMBING CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA FIRE CODE 2019 CALIGREEN CODE SECTION 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING CITY OF VISTA MUNICIPAL CODE

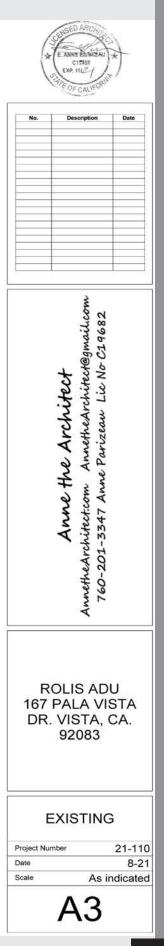


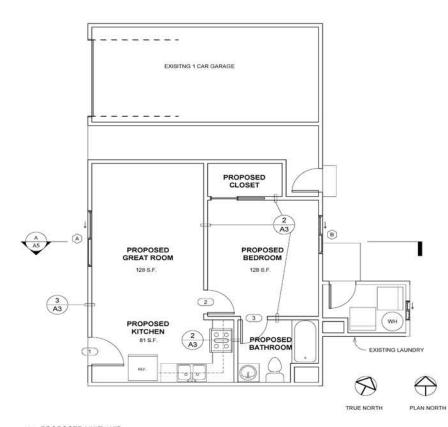




1/8" = 1'-0"







1/4" = 1'-0"

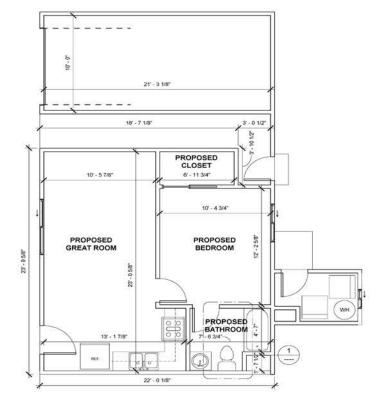
SEE A2 FOR NOTES AND LEGEND

OPENING SCHEDULES ALL NEW GLAZING TO BE DUAL GLAZED ALL NEW GLAZING TO BE INSTALLED WITH A CERTIFYING LABEL ATTACHED, SHOWING THE U-VALUE.

NOTES FOR OPENINGS

PIRE EXT. OPENING SATISFIES FIRE ESCAPE MINIMUM WHICH IS 20 INCHES WIDE, 24 INCHES HIGH, OPENING OF WINDOW 44 INCHES ABOVE FINISHED FLOOR 24 INCHES HIGH, OPENING OF WINDOW 44 INCHES ABOVE FINISHEL AND MINIMUM NET CLEAR OPENING OF 5.7 S.F. EXIT AREA. TEMP. EACH TEMPERED PANE IS TO BEAR THE MANUFACTURER'S MARK DESIGNATING THE TYPE AND THICKNESS OF THE GLASS. THE IDENTIFICATION MARK SHALL BE PERMANENT: ACID ETCHED, SAND BLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED OR OF A TYPE THAT, ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED. BEING DESTROYED. GARAGE. DOOR BETWEEN GARAGE AND DWELLING TO BE SELF-CLOSING, TIGHT-FITTING 1-3/8" THICK SOLID WOOD DOOR OR 20 MIN. FIRE RATED.

LEGEND FOR OPENINGS 3040 INDICATES 3'-0" WIDE X 4'-0" HIGH 5-10 X 2-10 INDICATES 5'-10" WIDE X 2'-10" HIGH EX = EXISTING SC = SOLID CORE HC = HOLLOW CORE FR DR = FRENCH DOOR F = FIXED SL = SLIDER O/HD GAR = OVERHEAD GARAGE DOOR AWN = AWNING (SEE ELEVATION FOR LOC'N OF HINGE) CS = CASEMENT (SEE PLAN FOR DIRECTION OF SWING) SH = SINGLE HUNG, BOT SLIDES UP X = OPENING SIDE O = FIXED GLAZING



2 PROPOSED DIMENSION PLAN

1/2" = 1'-0"

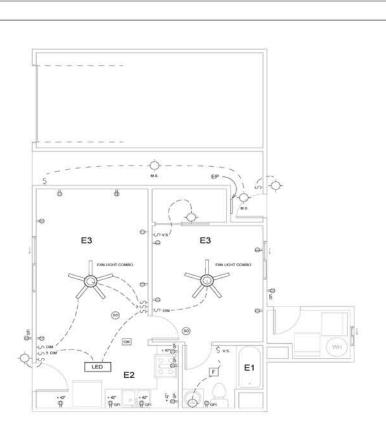
DOOR SCHEDULE

DOOR NOTES

1 NEW 3068 SC 2 NEW 2668 HC W/ LOCK 3 NEW 2668 HC W/ LOCK

WINDOW SCHEDULE

WINDOWS	NOTES	
A NEW 5-10 x 2-10 SL	16.5 S.F.	
B NEW 4040 SL	16 S.F. FIRE EXIT	Ŭ,



3 PROPOSED ELECTRICAL

ELECTRICAL LEGEND

¢	120 V DUPLEX RECEPTACLE @ 12° AFF UNO COMPLY W/ NEC ART, 210-52A
6 0	120V DUPLEX RECEPTACLE – GROUND FAULT CIRCUIT INTERRUPTER 42' AFF
X-@	120V DUPLEX RECEPTACLE - GFCI
đ	FLOOR RECEPTACLE
-\$	4-PLEX RECEPTACLE
240 1	240 V SUPPLY AT 12" AFF
<0-	SWITCH @ 36" AFF UNO
3.00	3-WAY SWITCH @ 36" AFF UNO
4 47	4-WAY SWITCH @ 36" AFF UNO
D	"D" OR "DIM" = DIMMER
V5	VACANCY SENSOR
MS	MOTION SENSOR/PHOTO CONTROLLED
WP	WATERPROOF
-\$-	CEILING-MOUNTED LED FIXTURE
-¢I	WALL-MOUNTED LED FIXTURE
0	LED "CAN" LIGHT
F	CEILING FAN - VENTILATION TYPE
X	CEILING FAN
	UNDER CABINET LIGHT STRIP MAX 20 WATT/FOOT
I	JUNCTION BOX
Ð	SMOKE DETECTOR
िल	CARBON MONOXIDE DETECTOR
199	COMBO SMOKE AND CARBON MONOXIDE DETECTOR
머	CABLE CONNECTION

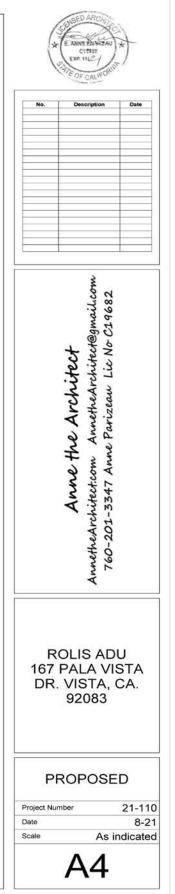
"E" = EXTERIOR LED LIGHT WATERPROOFED, MOTION SENSOR/PHOTO CONTROLLED

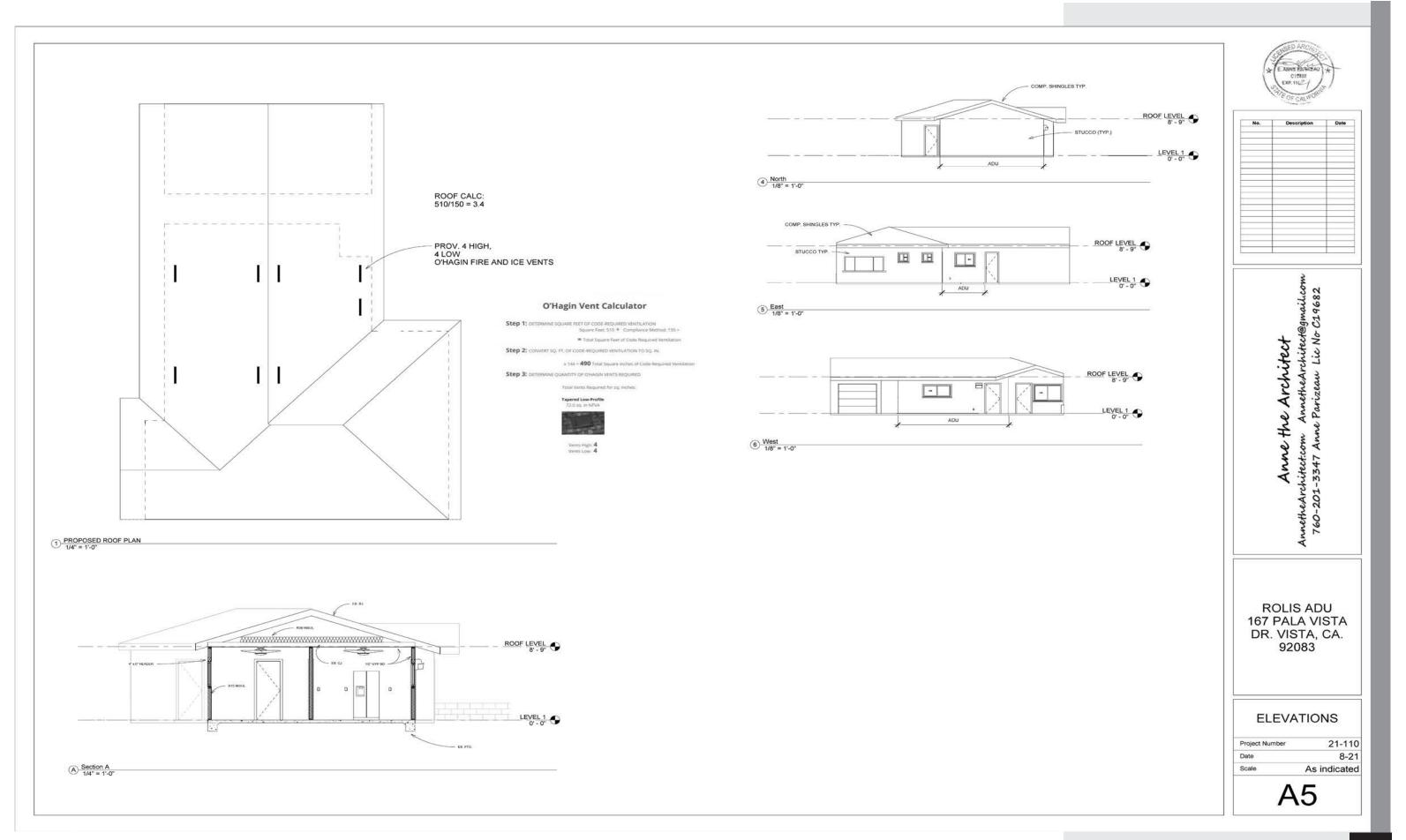
WP = WATERPROOF WR = WATER RESISTAN MS = MOTION SENSOR

SEE A2 FOR NOTES AND LEGEND

	ELECTRIC	NOTES:	SEE	NOTES	ON	SHEET	A2
--	----------	--------	-----	-------	----	-------	----

NOTE
E1
E2
E3
E3
E3
E4
E4
E5
E6
EG



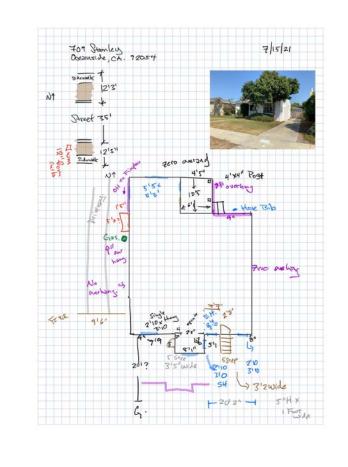


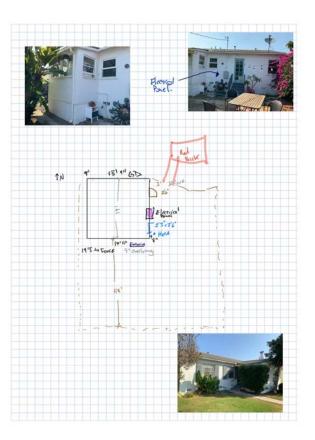
709 Stanley

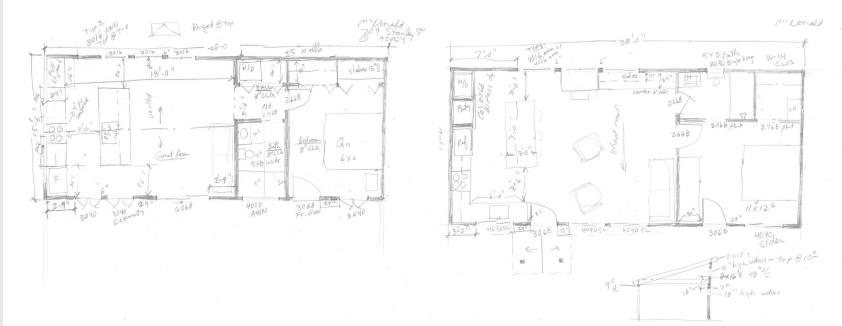
Shown here are the site visit notes for the as built drawings, the construction documents for this project are on the following pages.

The Notablility app on an iPAD was used for site documentation.

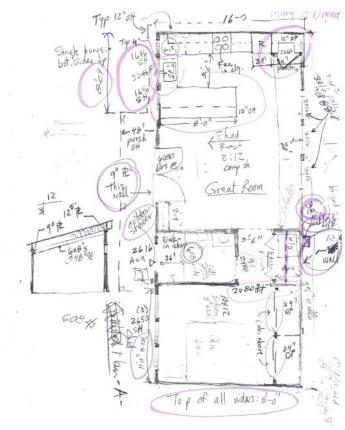
Two different floor plans with specs given to me by my employer for me to draft in Revit. Once those were presented to the client revisions were made based on the clients feedback and desires, and the construction documents were completed.











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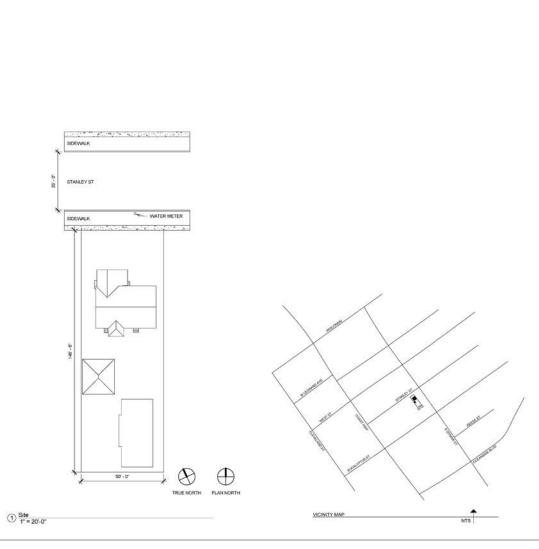
VAULTED ROOF OPTION







FRONT ENTRANCE





FRONT ENTRANCE

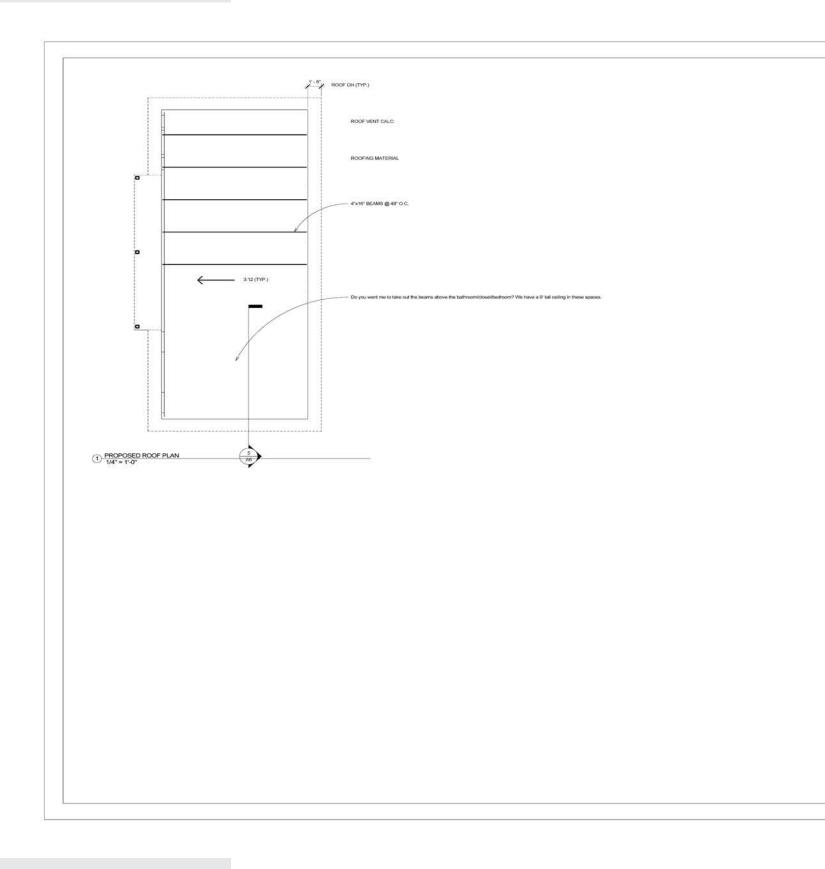




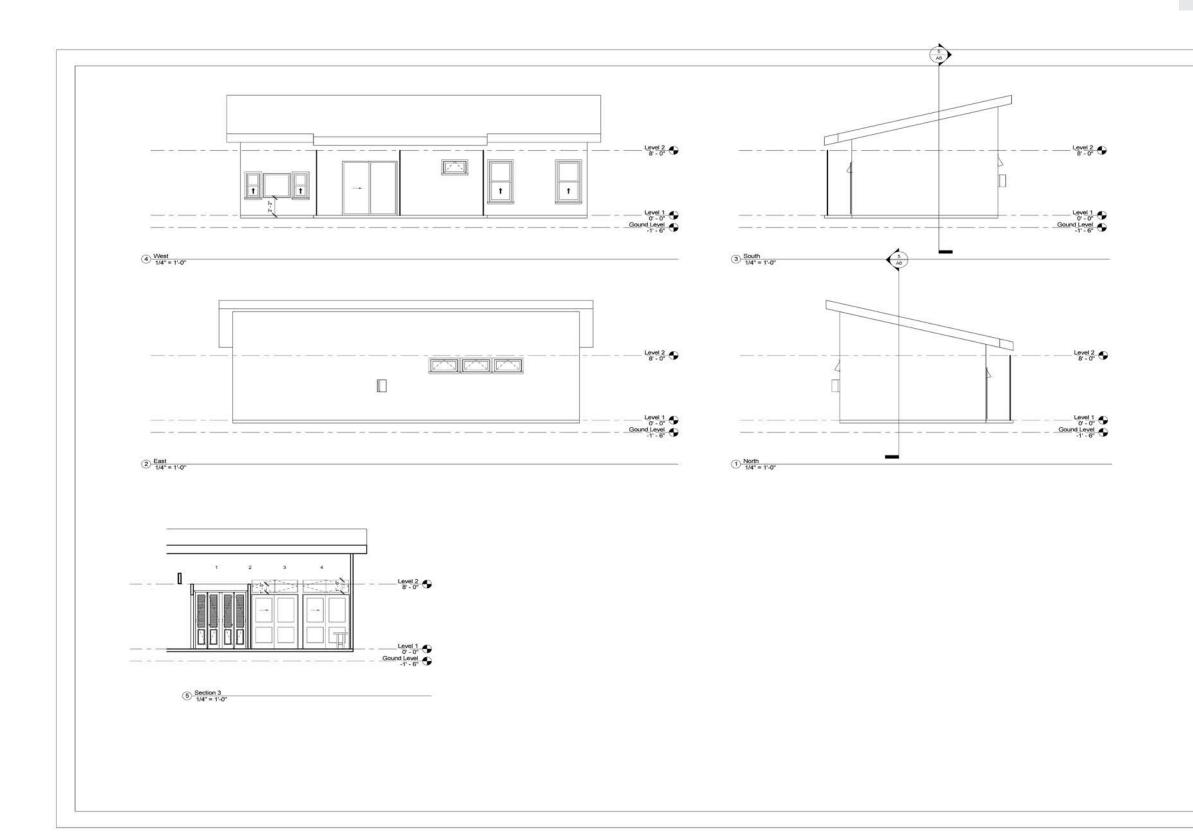








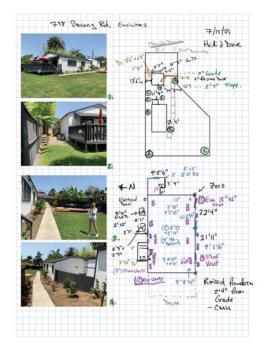


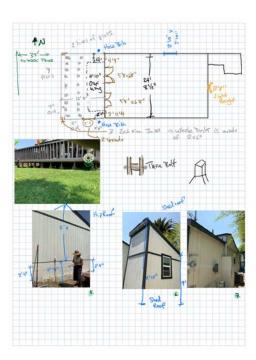


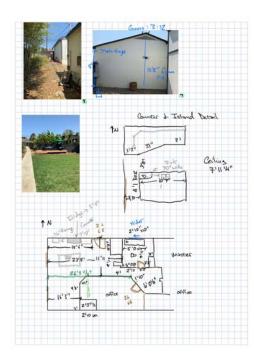


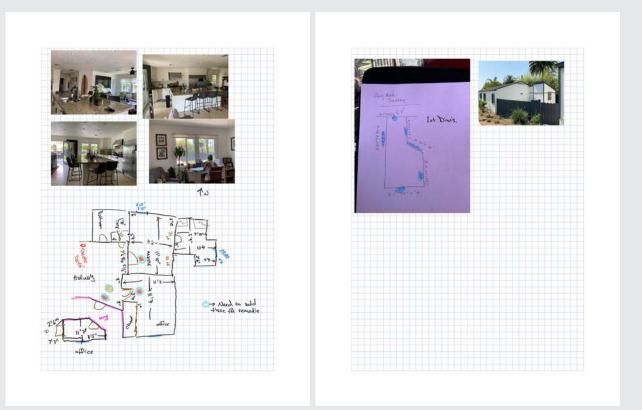
798 Saxony Rd.

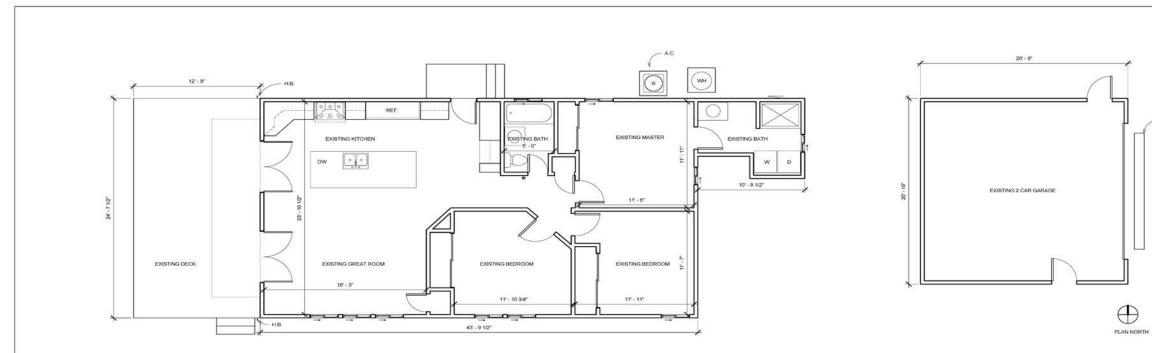
This project differs from the last two. Instead of being an ADU, it is an addition connecting the garage to the home.





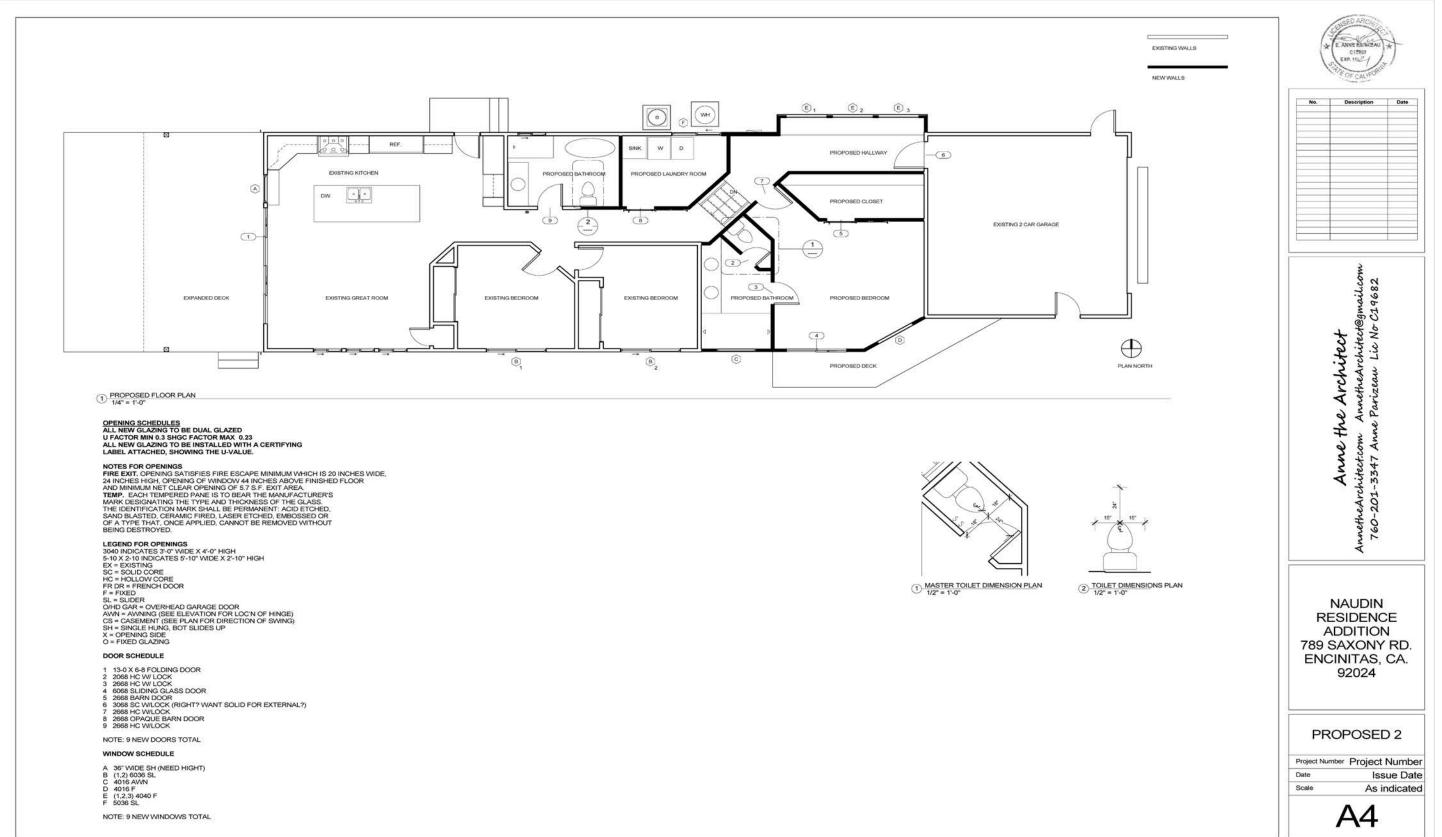


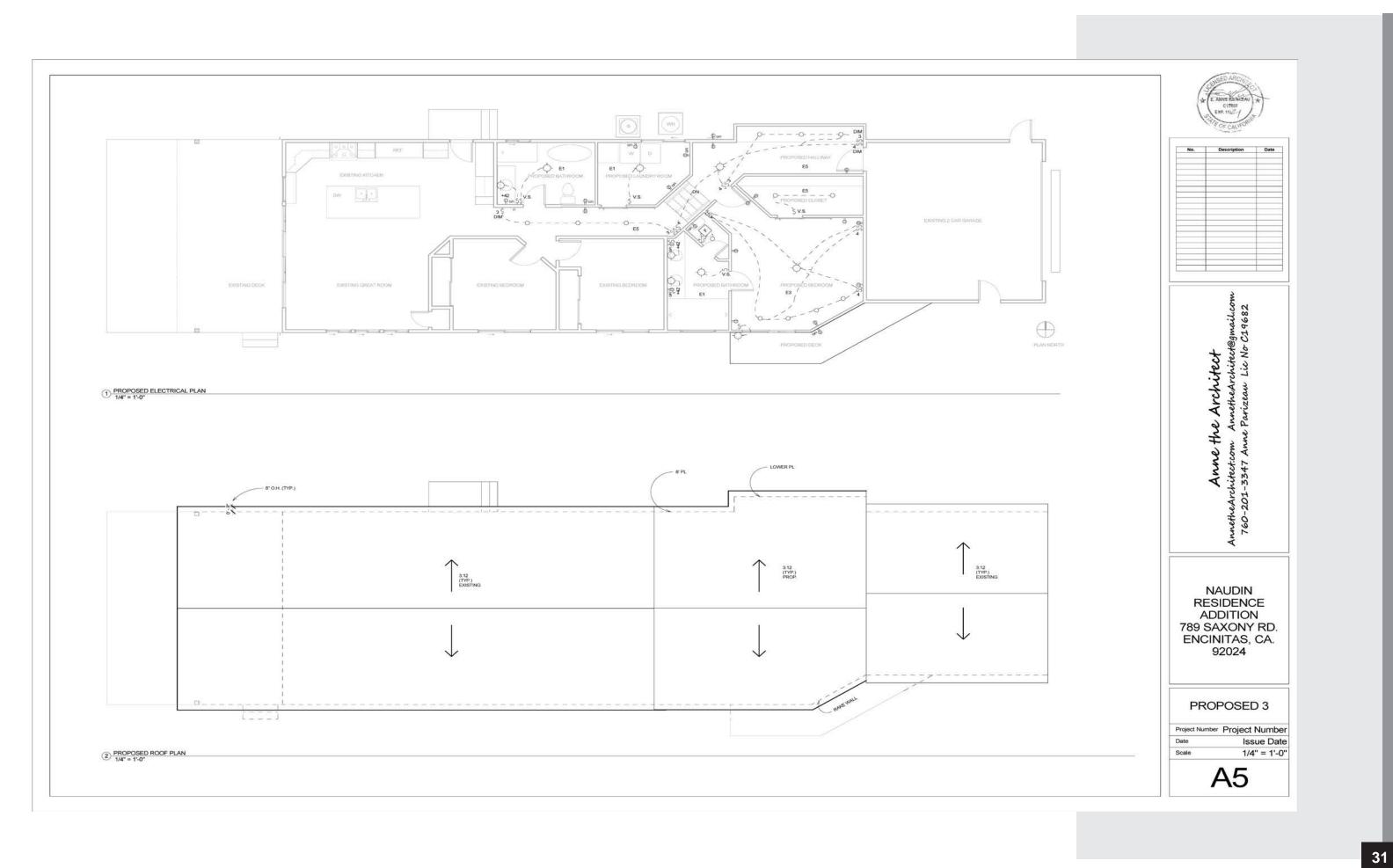


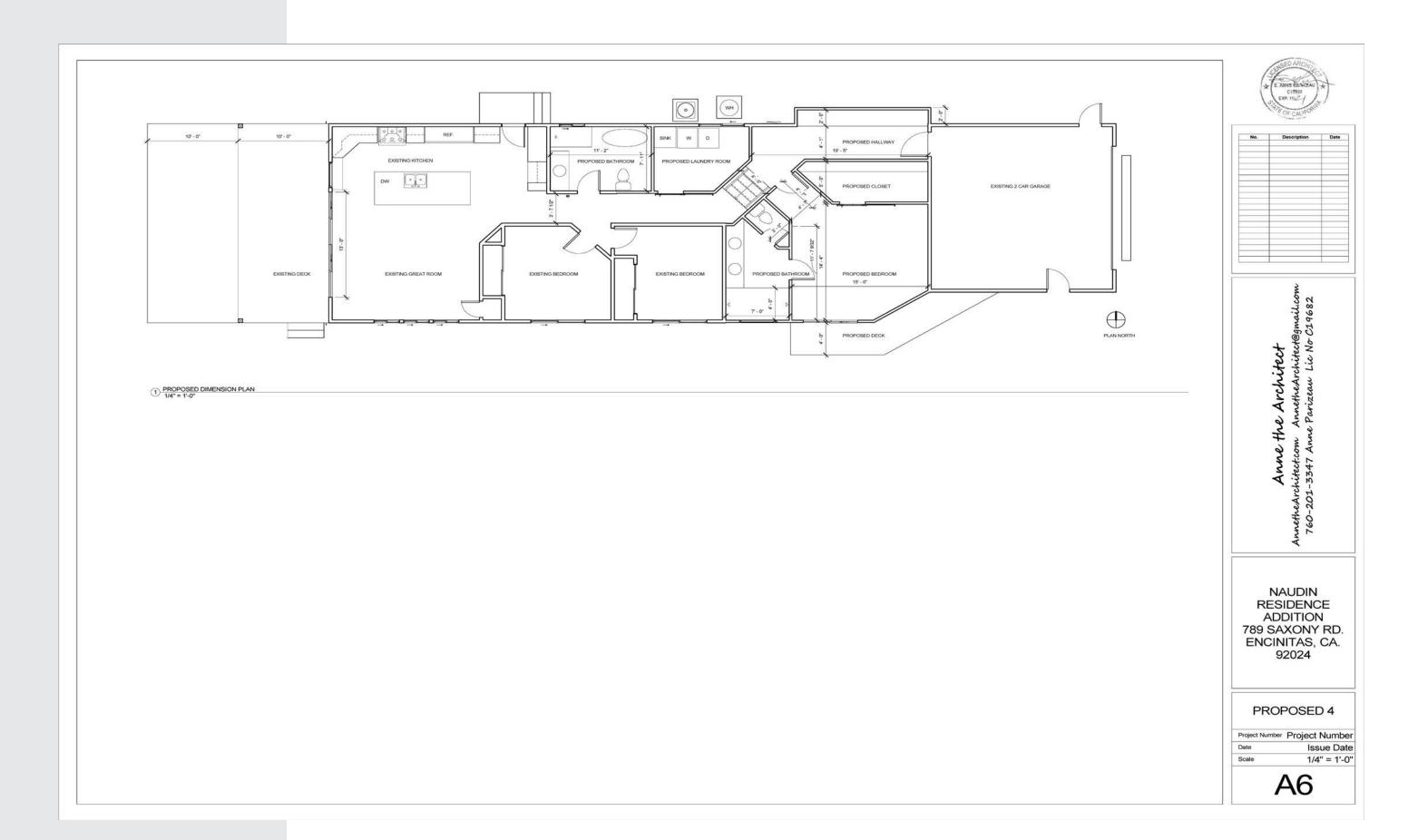


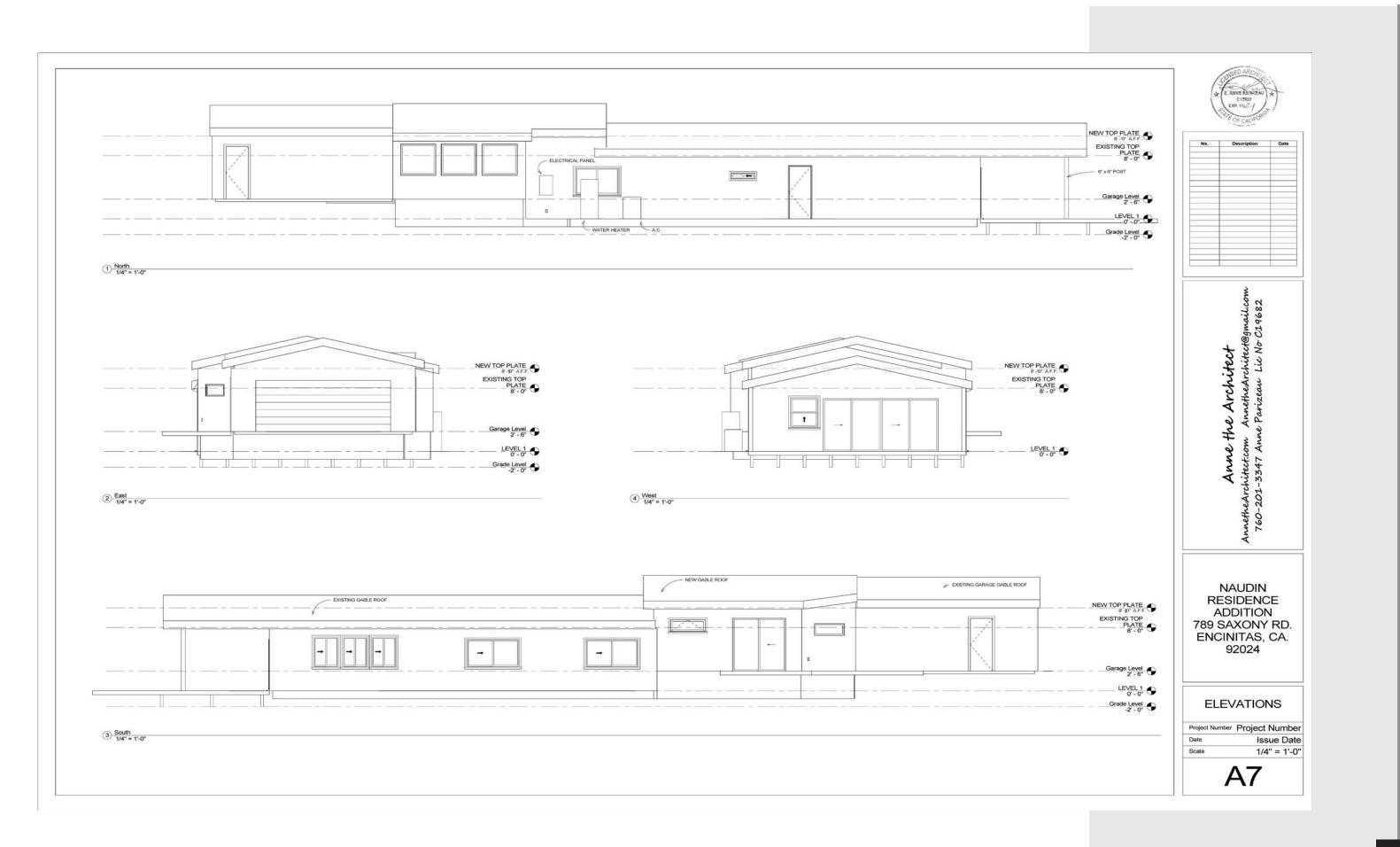
1/4" = 1'-0"











THANK YOU FOR YOUR TIME AND CONSIDERATION