

JOSE CENDEJAS

ARCHITECTURAL DESIGN
PORTFOLIO

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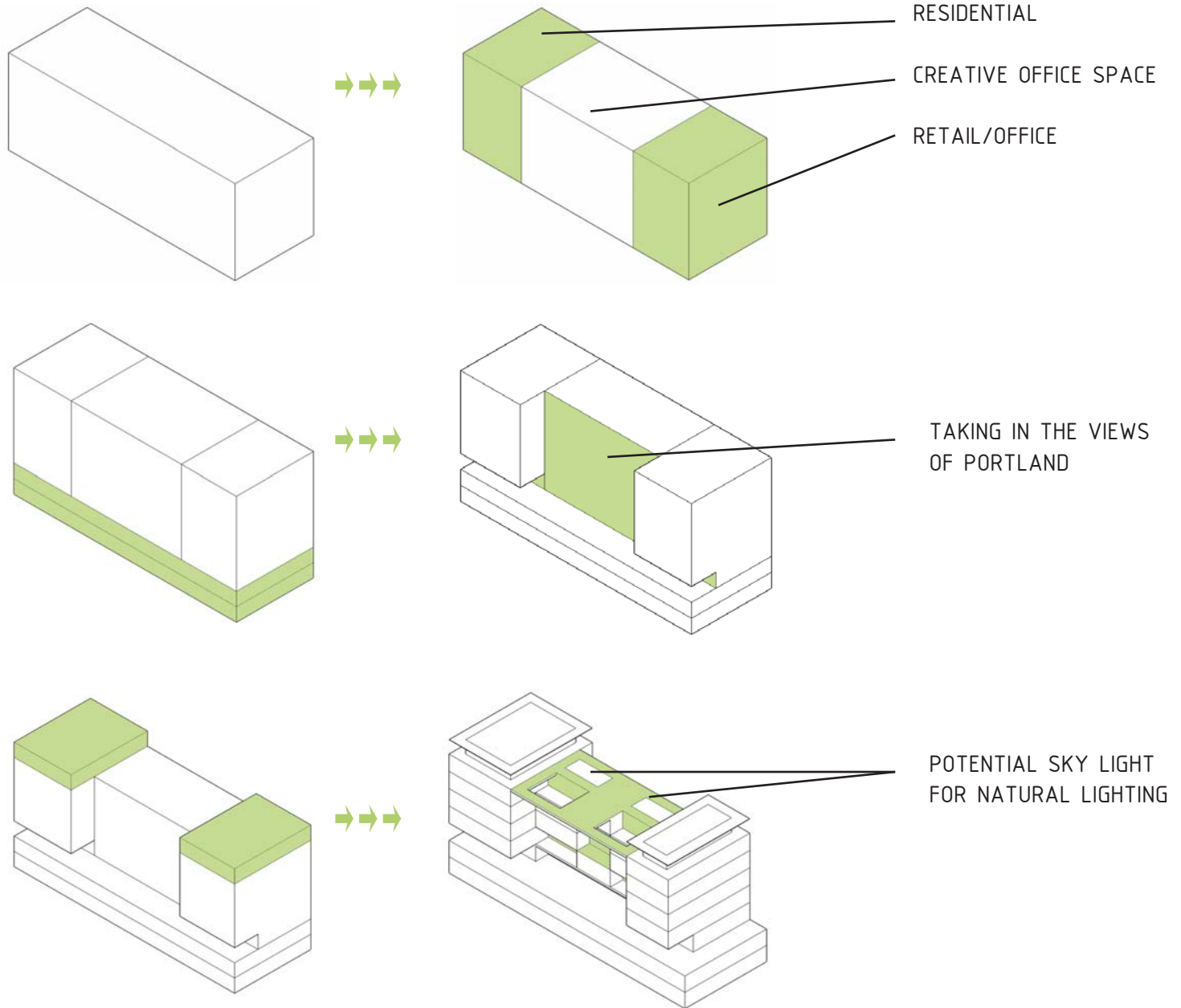
PORTLAND CONNECTIONS

PROJECT DESCRIPTION: FOR DESIGN STUDIO 4 WINTER QUARTER WE WORKED IN COLLABORATION WITH MACKENZIE FIRM AND A PORTLAND DEVELOPER TO DESIGN BUILDINGS IN THE FORD DISTRICT WE HAD 11 SITES TO CHOOSE FROM THE SITE CHOSEN FOR THIS PROJECT WAS LOCATED ACROSS FROM THE ICONIC HISTORIC FORD BUILDING.

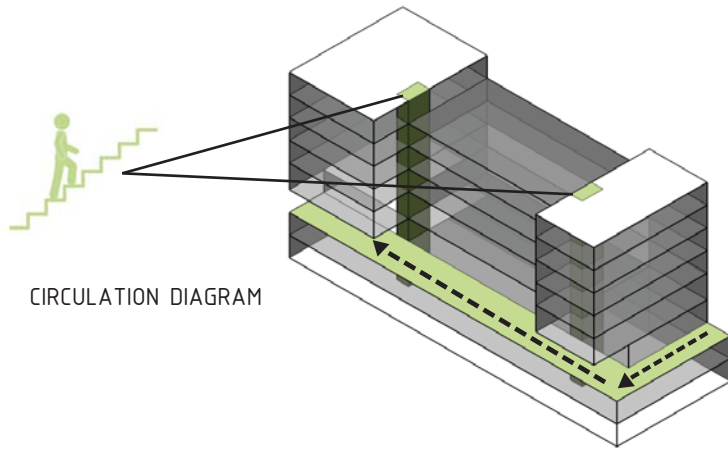


VICINITY MAP

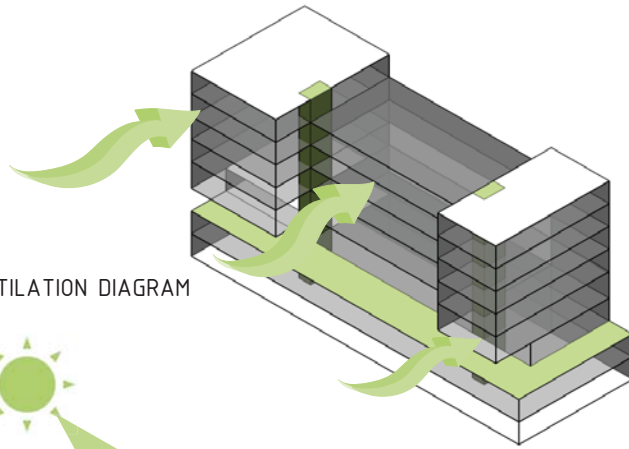
THE OBJECTIVE IS TO ESTABLISH A CONNECTION BETWEEN THE FORD DISTRICT AND PORTLAND. THIS PROJECT IS TO BE A FUTURE ICON ALONG WITH THE FORD BUILDING. THE CONNECTION IS TO TAKE ADVANTAGE OF THE PORTLAND LIFESTYLE WHILE CAPTURING THE DOWNTOWN FEEL IN ONE DIRECTION AND AN AMAZING VIEW OF THE MOUNTAINS IN THE OTHER. THE BUILDING IS TO CONNECT MANY OF THE MAJOR ASPECTS OF PORTLAND AND THE PEOPLE UNDER ONE ROOF WITH A VARIETY OF MIXED USED OFFICE AND CREATIVE SPACES ALONG WITH A RESIDENTIAL SECTION ON THE SOUTH SIDE OF THE BUILDING.



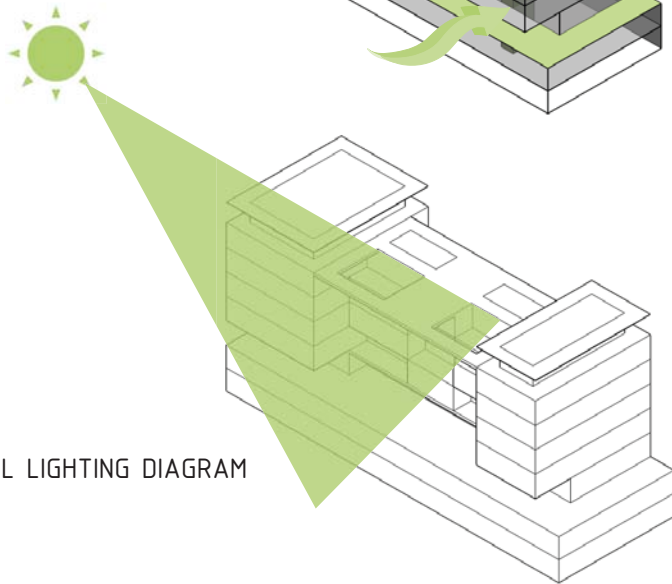
FORM ANALYSIS DIAGRAMS



CIRCULATION DIAGRAM



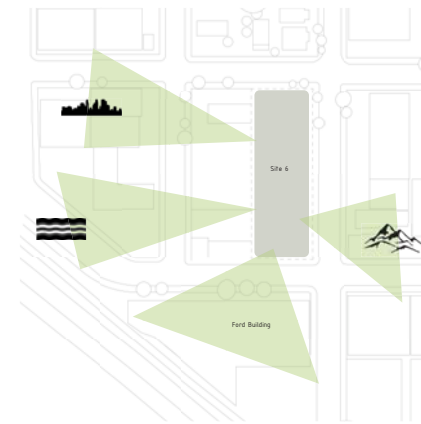
CROSS VENTILATION DIAGRAM



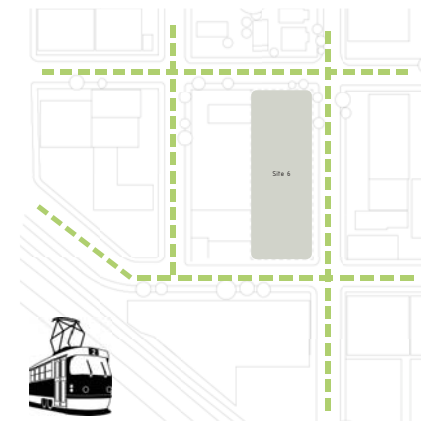
NATURAL LIGHTING DIAGRAM



SITE CONNECTIONS



VIEWS FROM SITE

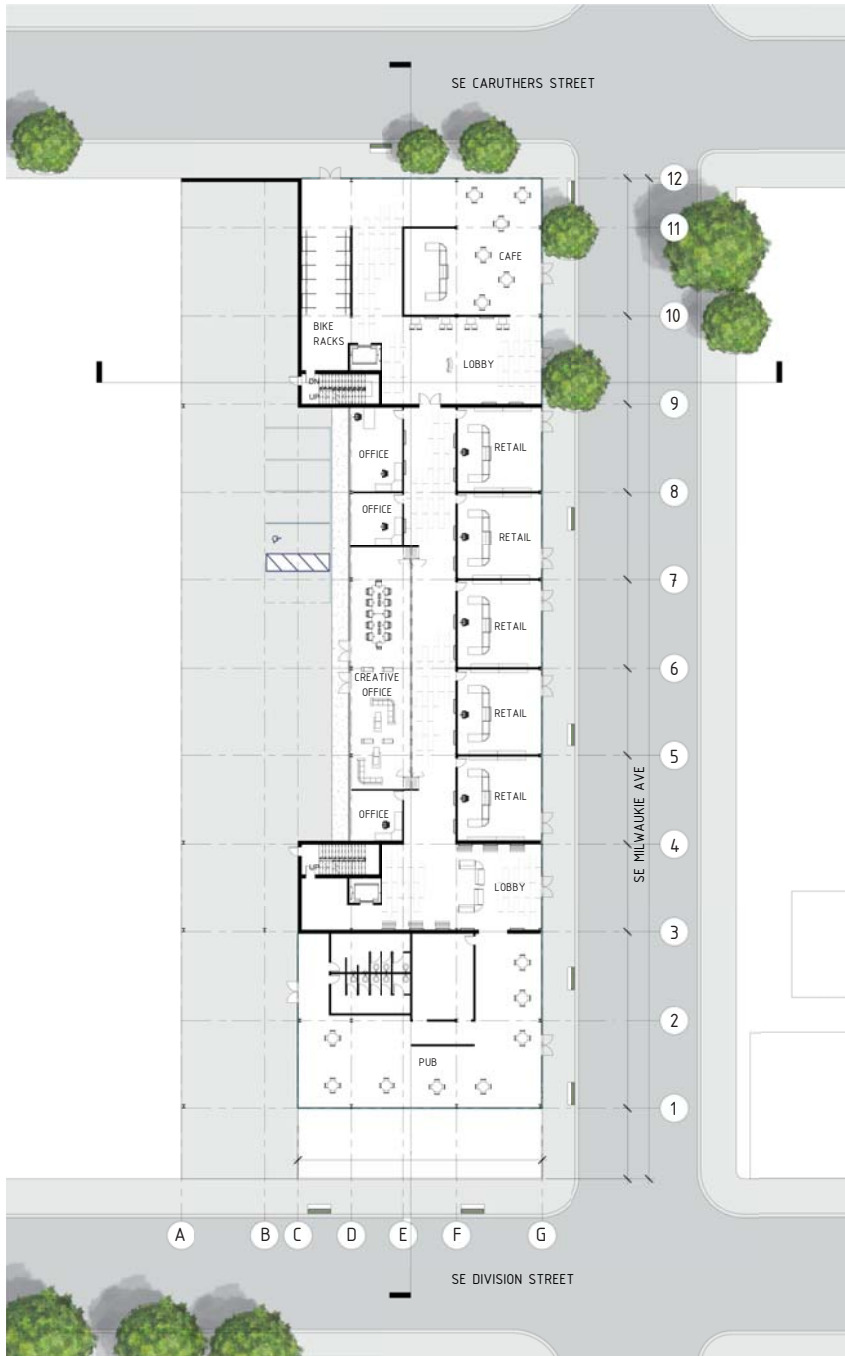


MAJOR AXIS OF TRANSPORTATION

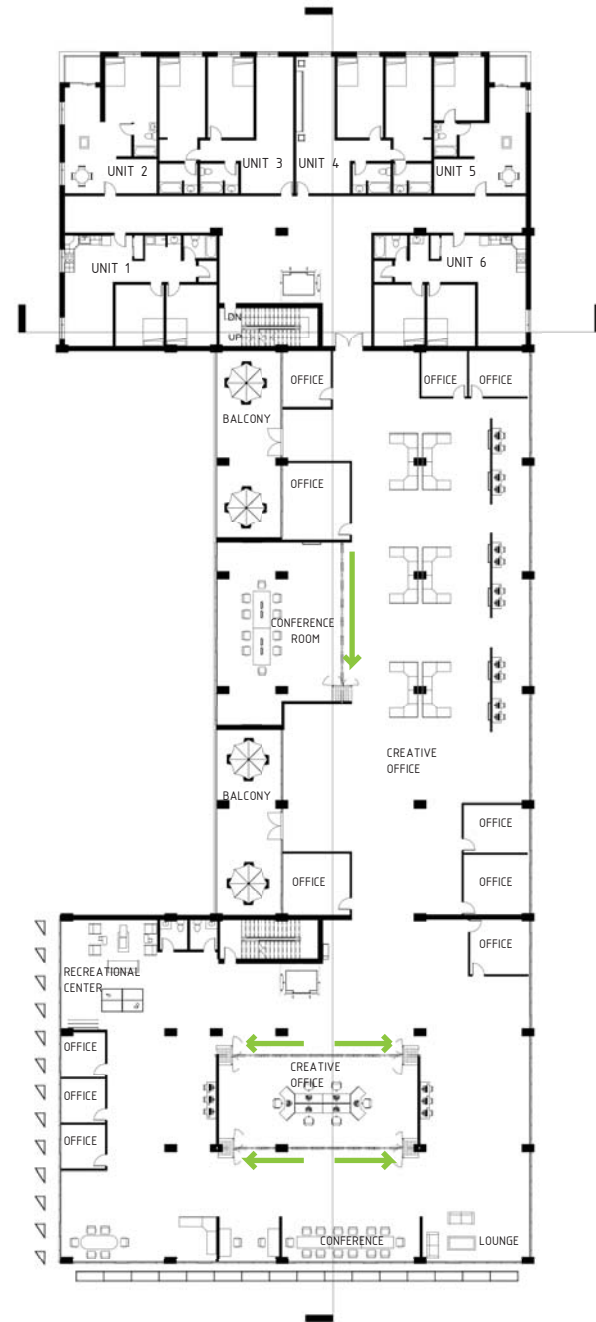


SITE 6 SITE PLAN



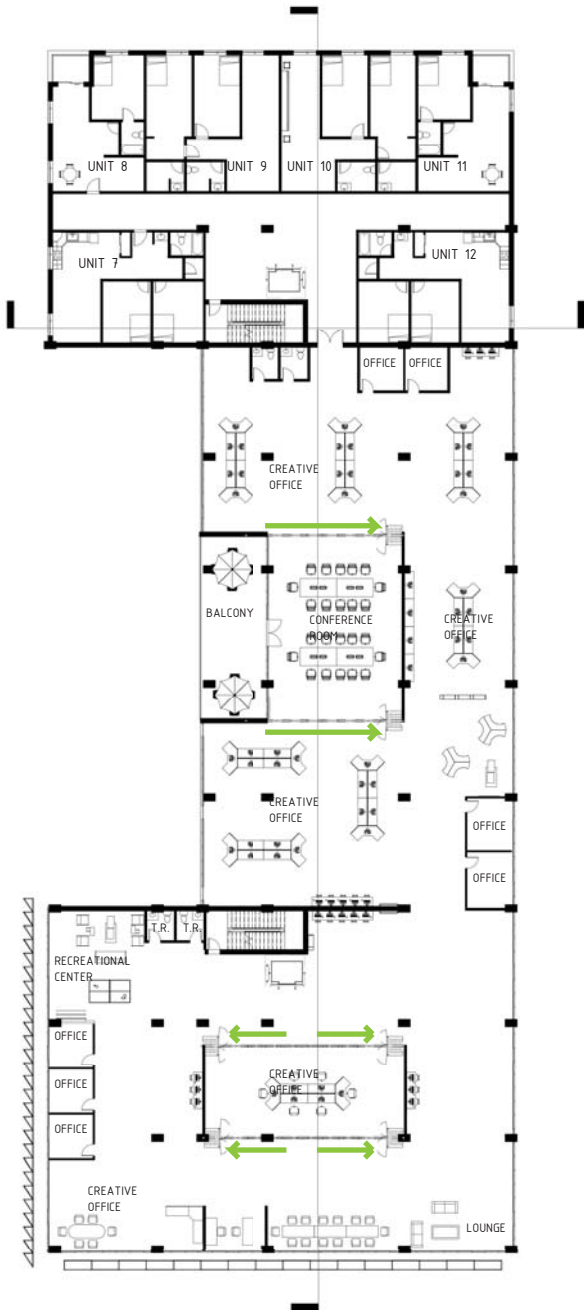


GROUND LEVEL PLAN

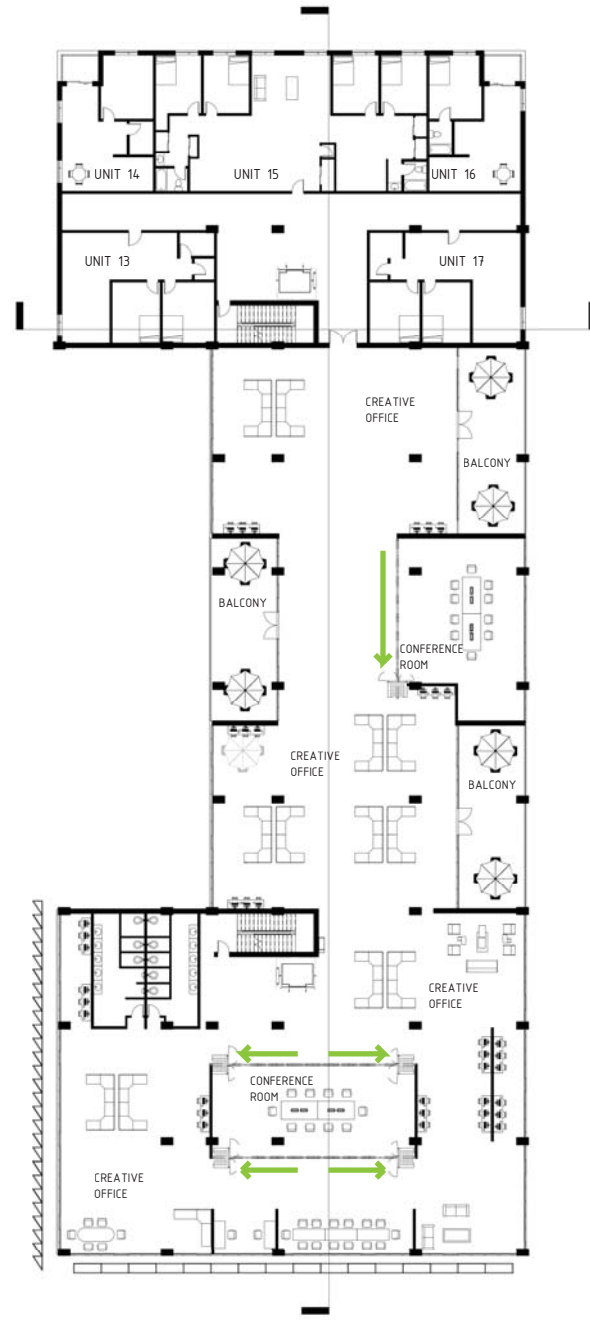


SECOND FLOOR PLAN



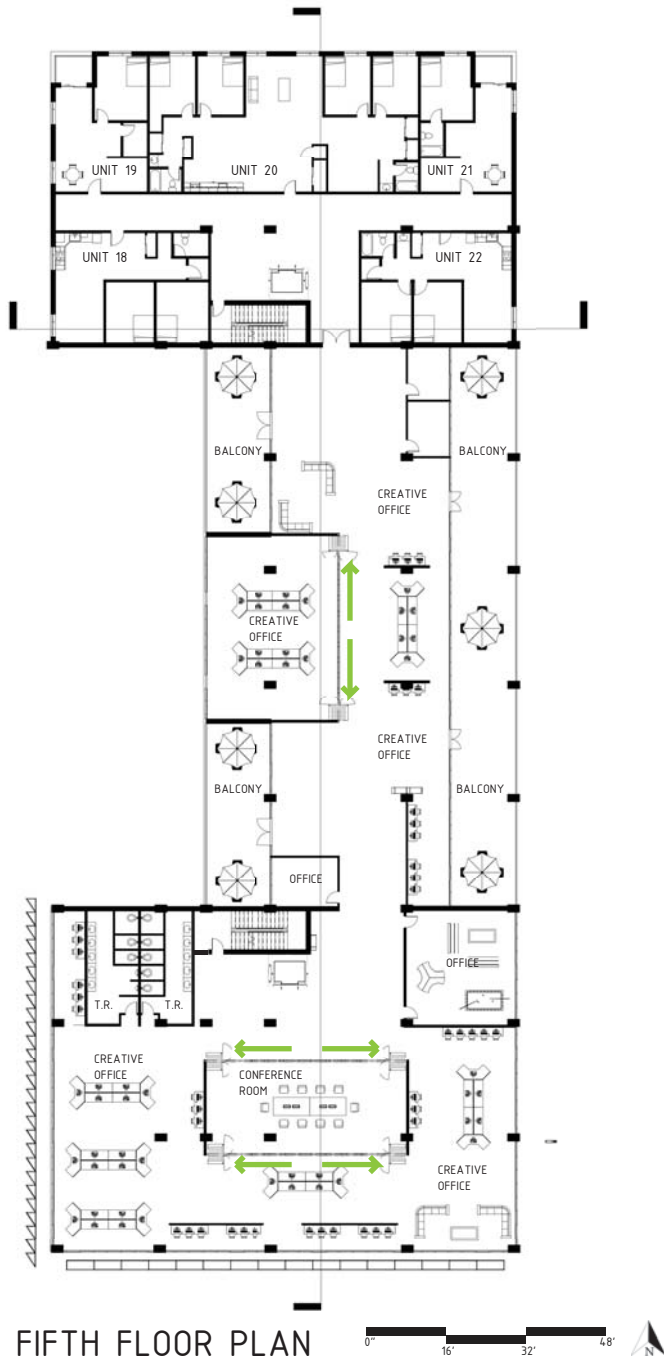


THIRD FLOOR PLAN

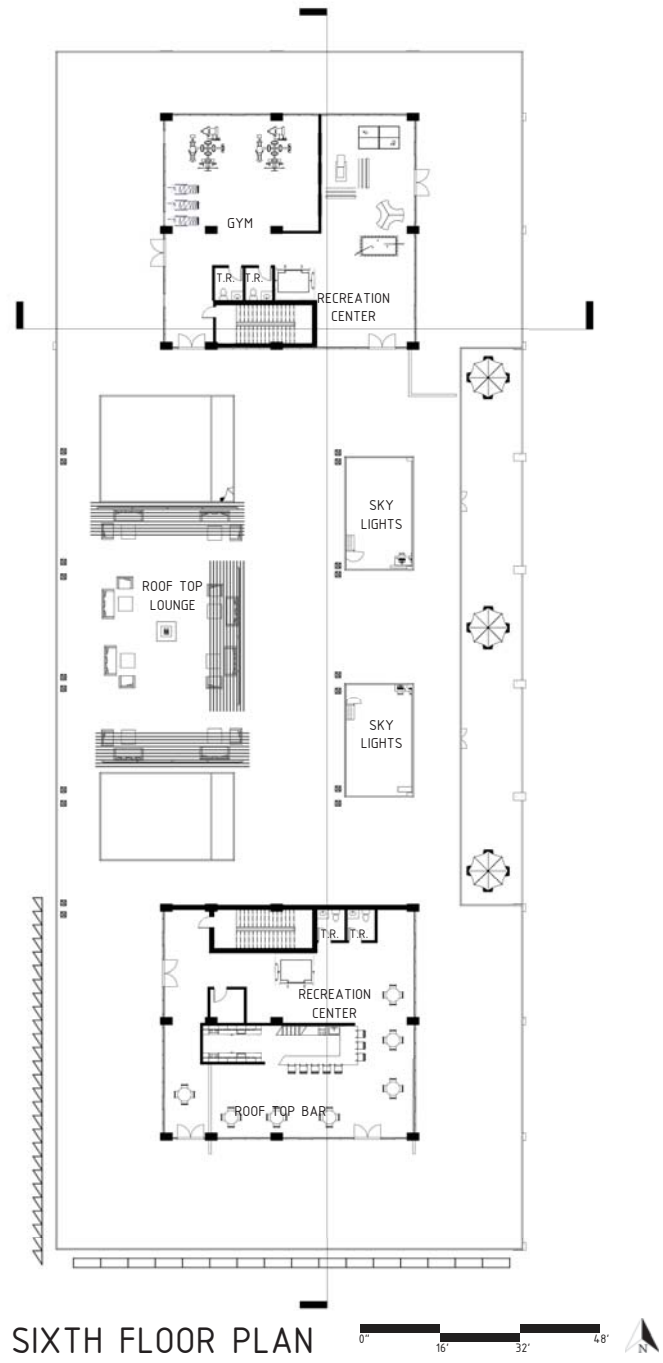


FOURTH FLOOR PLAN

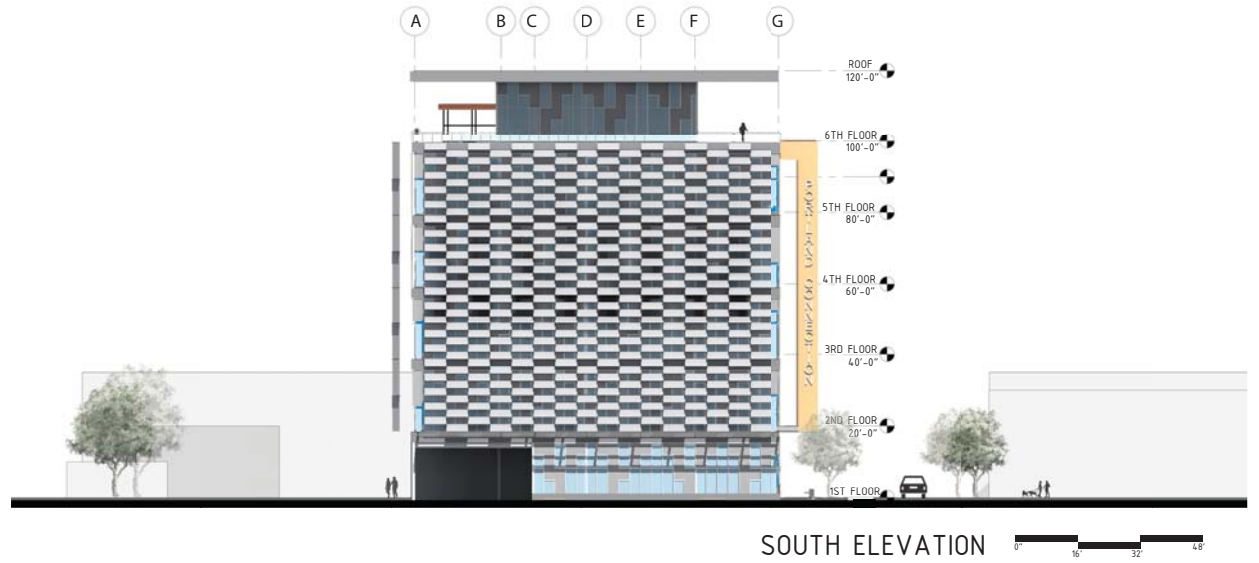
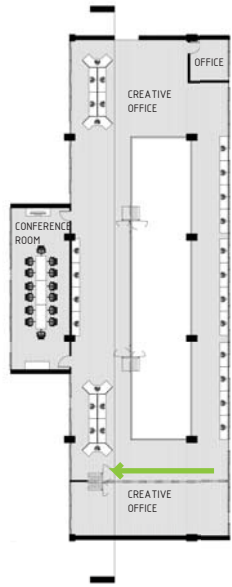




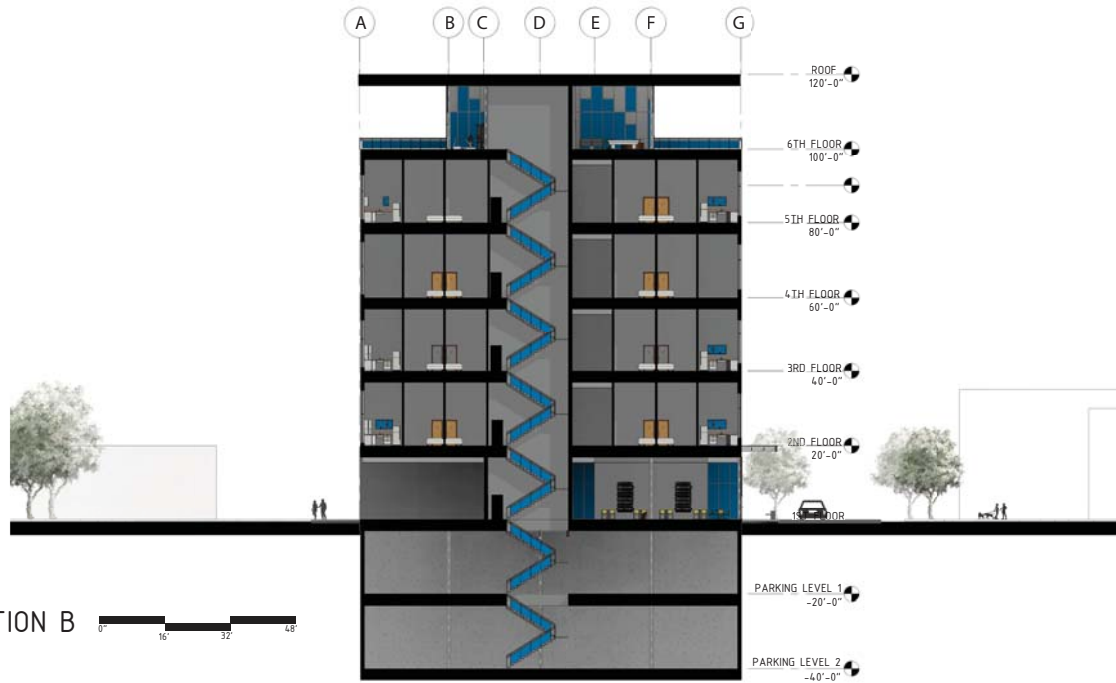
FIFTH FLOOR PLAN



SIXTH FLOOR PLAN

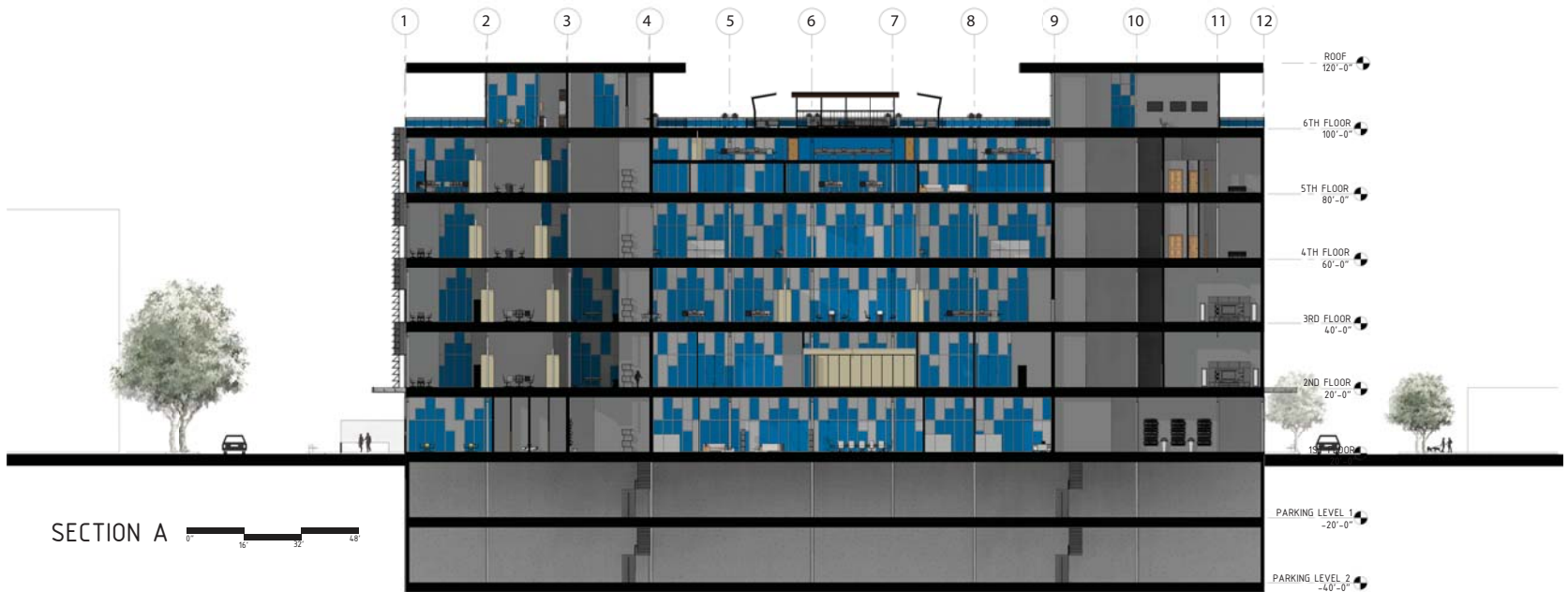


MEZZANIE FLOOR PLAN



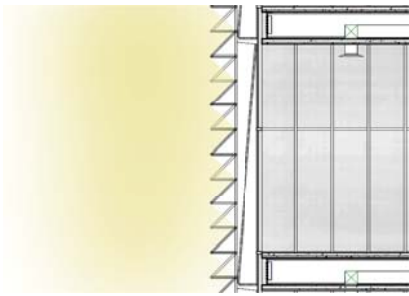


EAST ELEVATION

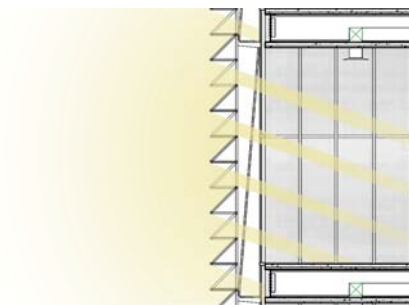


SECTION A

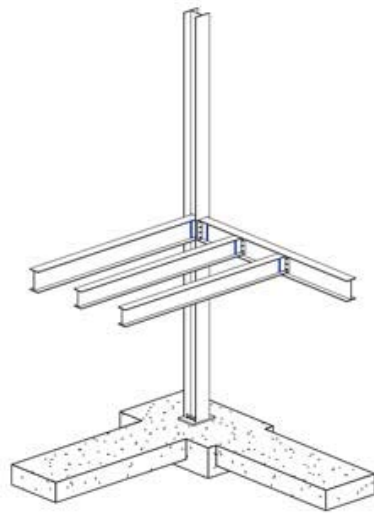




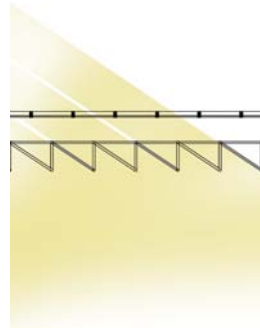
SUMMER SUN



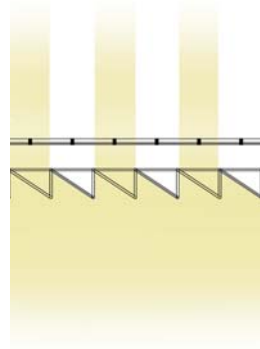
WINTER SUN



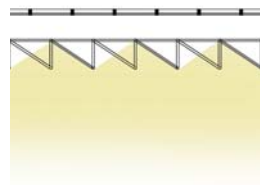
STRUCTURE DIAGRAM



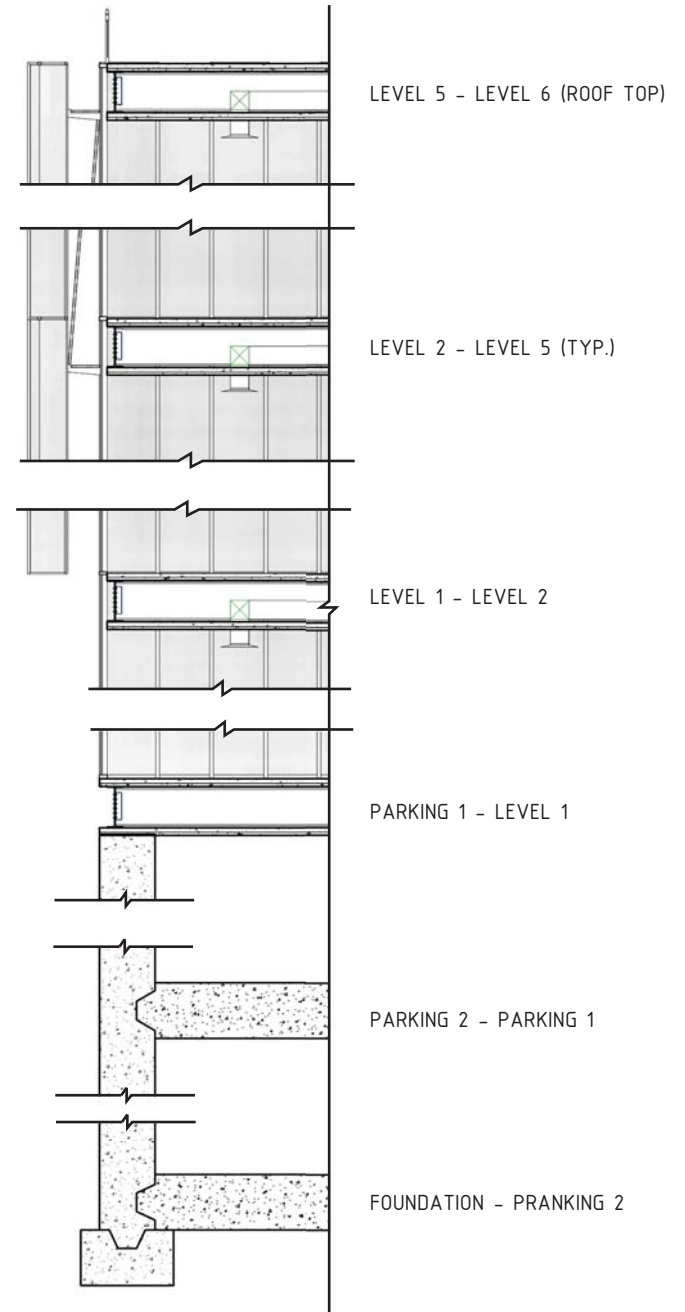
08:00 A.M. SUN PATH



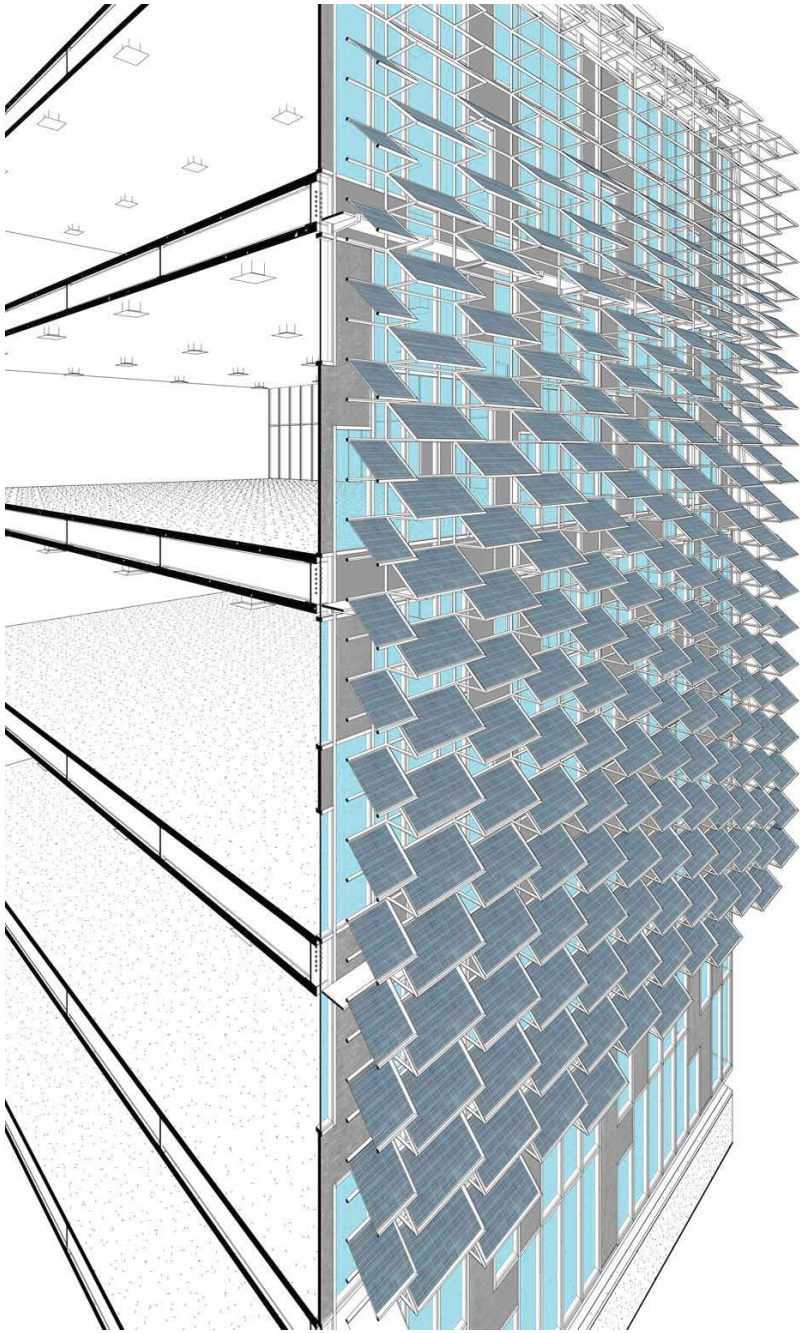
12:00 P.M. SUN PATH



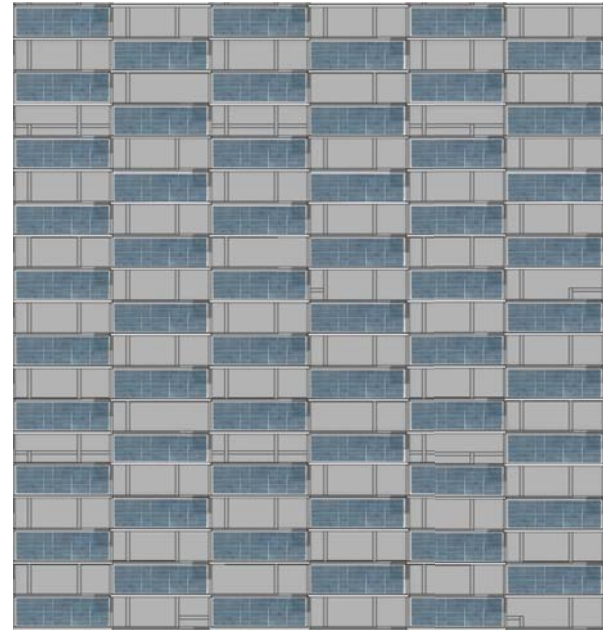
3:00 P.M. SUN PATH



WALL SECTION 



3D SECTION PERSPECTIVE



SOUTH FACADE ELEVATION



WEST FACADE ELEVATION



ROOF TOP LOUNGE



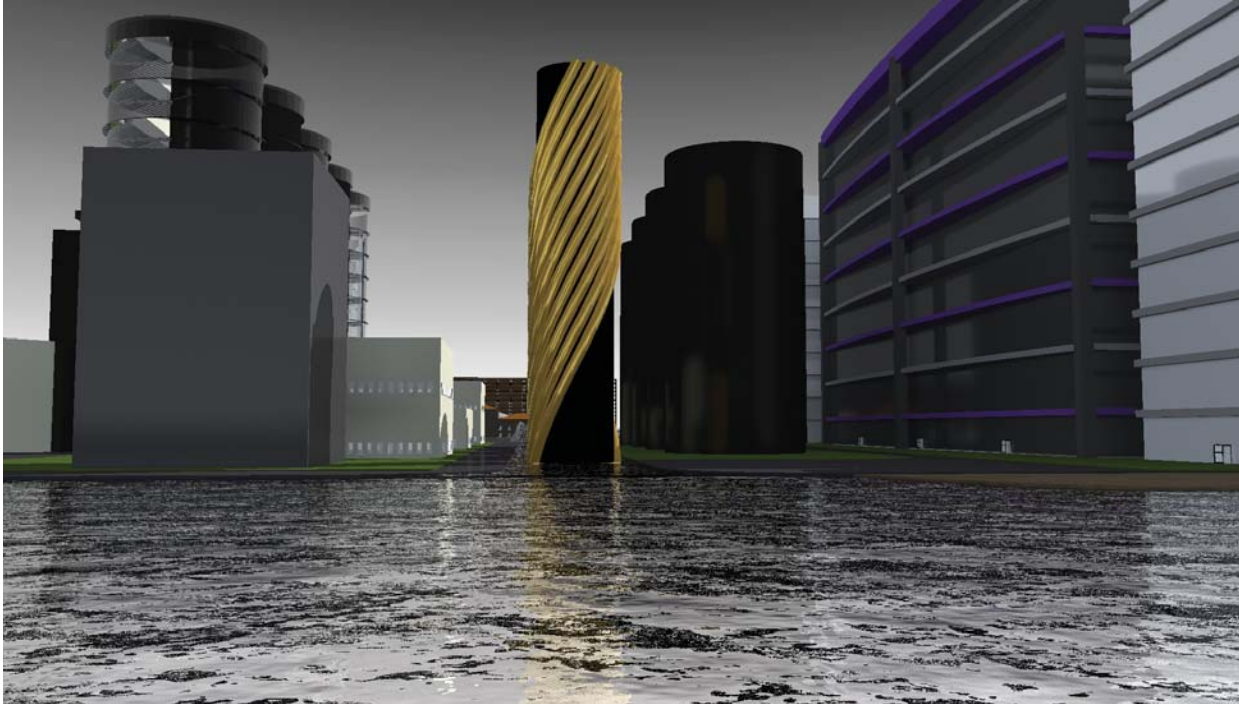
MEZZANINE FLOOR PERSPECTIVE



SOUTH PERSPECTIVE

THE MOTHERBOARD CITY: CONCEPTUAL STUDY (SCHEMATIC DESIGN)

PROJECT DESCRIPTION: FOR ARCHITECTURAL DESIGN 3 AT COLLEGE OF THE SEQUOIAS WE WERE ASKED TO TAKE A MOTHERBOARD FROM A COMPUTER AND USE IT TO DESIGN A CITY FROM IT.



DOWNTOWN PERSPECTIVE

1. BEACH
2. HARBOR/ PIER
3. RIVER
4. PARK
5. HIGH DENSITY RESIDENTIAL
6. MEDIUM DENSITY RESIDENTIAL
7. LOW DENSITY RESIDENTIAL
8. COMMERCIAL ARE
9. POWER PLANT
10. SCHOOL
11. HOSPITAL
12. AIRPORT
13. SPORTS ARENA
14. BRIDGE
15. FREEWAY/AVENUES /STREETS
16. DOWNTOWN
17. INDUSTRIAL AREA



SITE PLAN



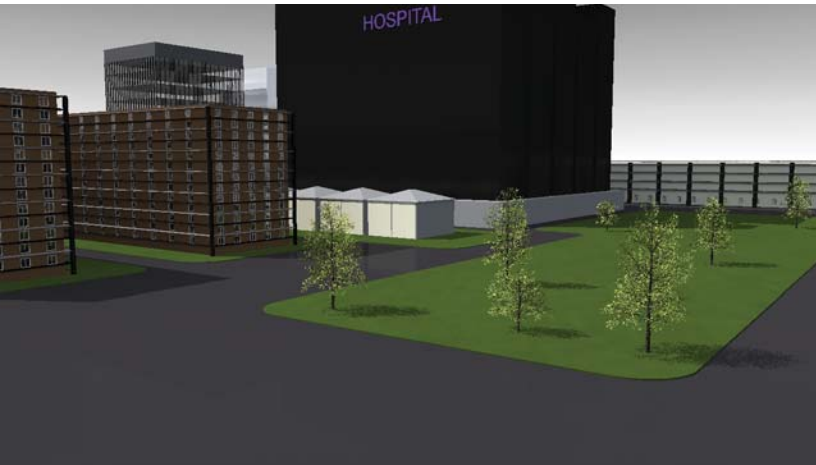
ORIGINAL MOTHERBOARD



INDUSTRIAL PERSPECTIVE



STADIUM AERIAL PERSPECTIVE

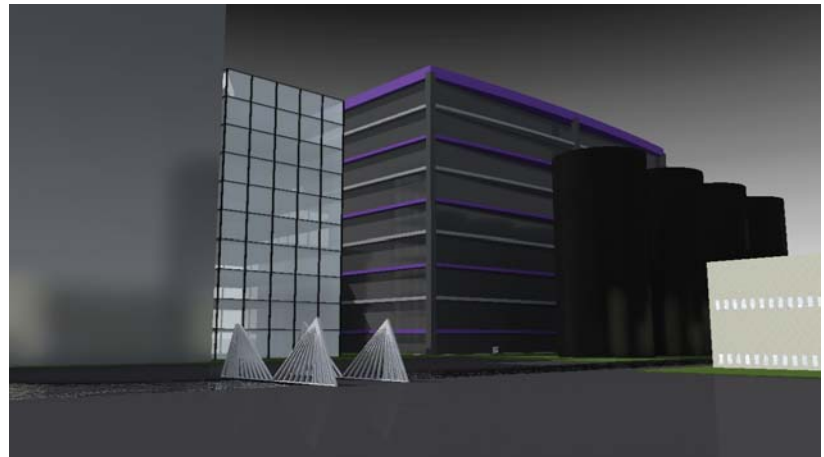


PARK PERSPECTIVE



SCHOOL/ RIVER PERSPECTIVE

THE IDEA BEHIND THE SCHEMATIC DESIGN OF THE CITY WAS BEING ABLE TO PROVIDE SERVICE AND AMENITIES TO EVERYONE IN THE CITY. THE RESIDENTIAL AREA WAS PLACED NEXT TO THE BEACH TO PROVIDE A GREAT VIEW FOR THE RESIDENCE OF THE CITY.

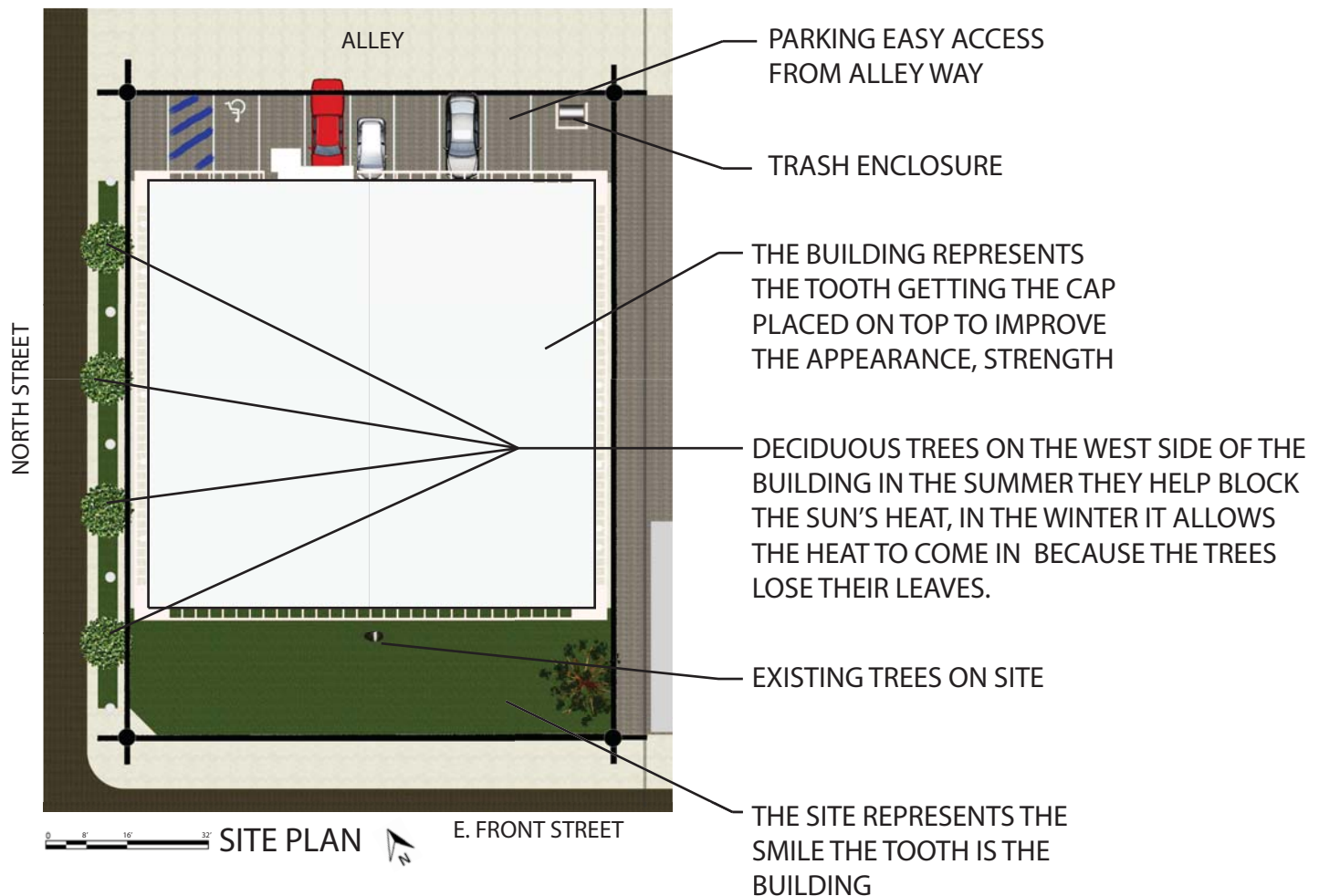


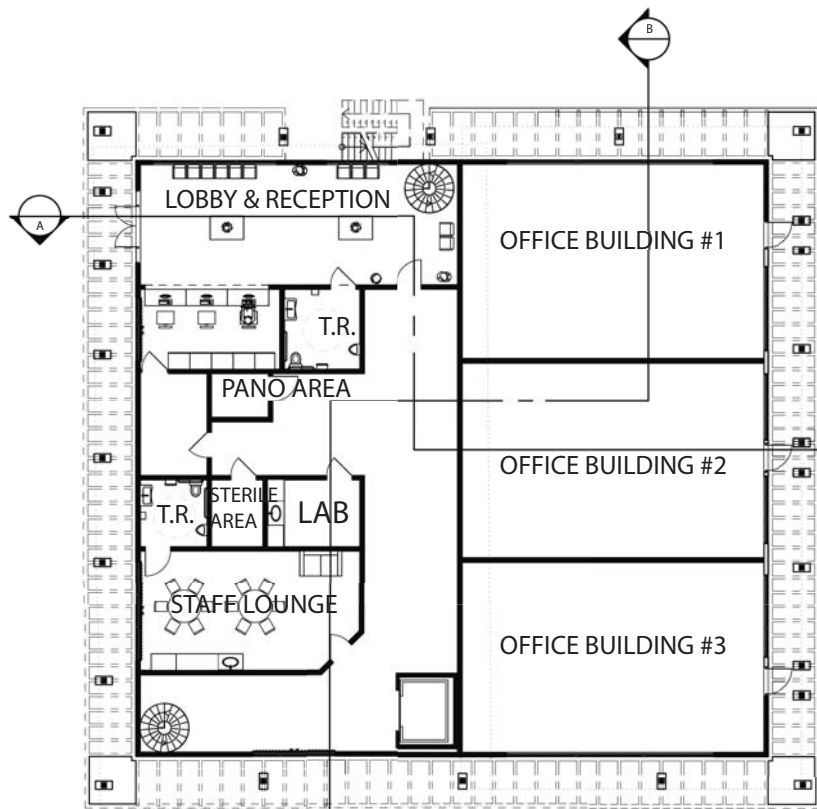
BRIDGE TO DOWNTOWN PERSPECTIVE

2014 AIASJ STUDENT DESIGN COMPETITION OFFICE BUILDING WITH DENTAL SUITE, SELMA, CA

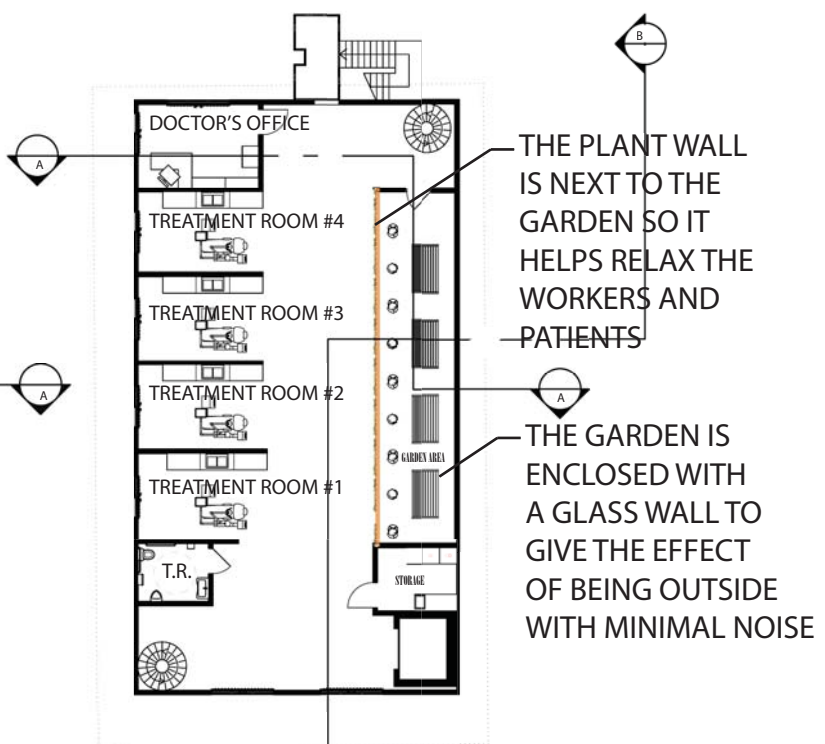


PROJECT DESCRIPTION: FOR ARCHITECTURAL DESIGN 4 AT COLLEGE OF THE SEQUOIAS WE WERE ASKED BY THE CITY OF SELMA TO DESIGN AN OFFICE BUILDING WITH A DENTAL SUITE. THIS PROJECT WAS PART OF AN ANNUAL A.I.A.S.J STUDENT DESIGN COMPETITION.

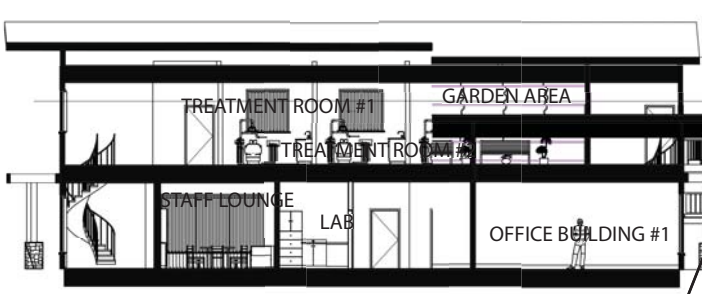




FIRST FLOOR PLAN

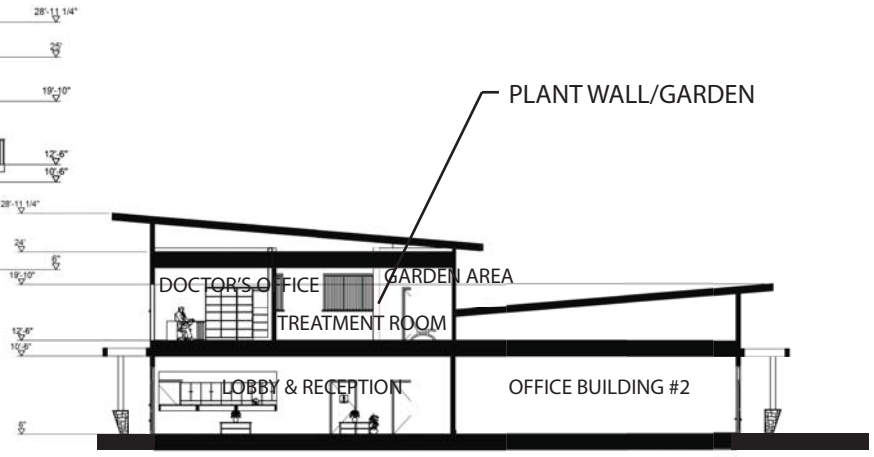


SECOND FLOOR PLAN



SECTION B

THE FACADE OVERHANG REPRESENTS THE ROOTS OF THE TOOTH HELPS THE BUILDING STRUCTURALLY AND AESTHETIC.



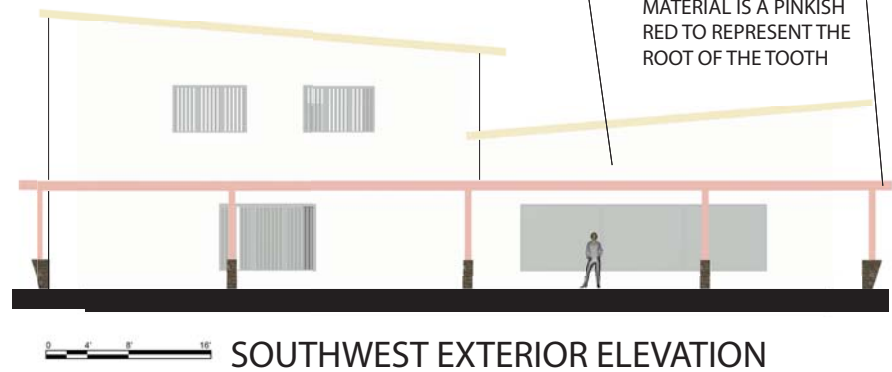
SECTION A



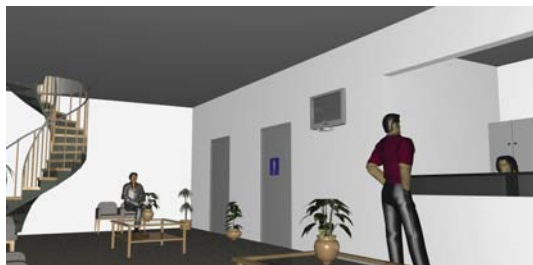
THE ROOF FASCIA BOARD IS A BRASS MATERIAL THAT REPRESENTS THE CROWN "CAP"

THE WHITE STUCCO EXTERIOR SHOWS THE WHITE TOOTH EXTERIOR

THE WOOD OVERHANG MATERIAL IS A PINKISH RED TO REPRESENT THE ROOT OF THE TOOTH



STAFF LOUNGE PERSPECTIVE



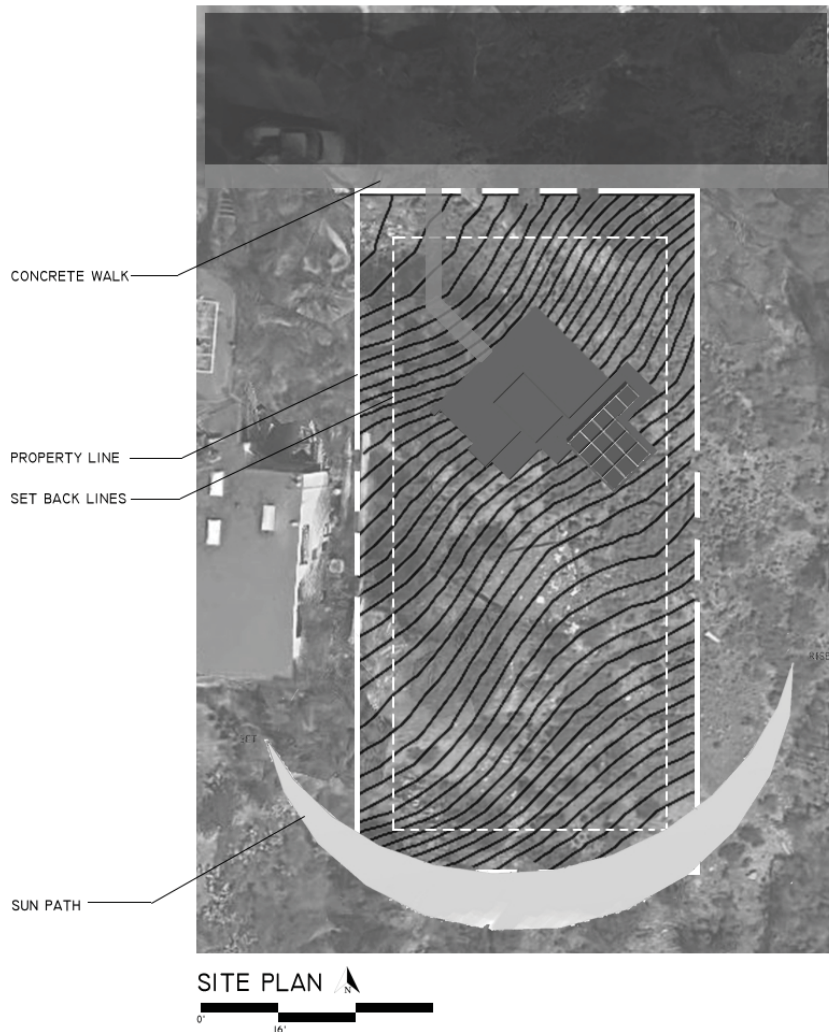
LOBBY & RECEPTION PERSPECTIVE



DRIVE APPROACH PERSPECTIVE

ECO-HOUSE

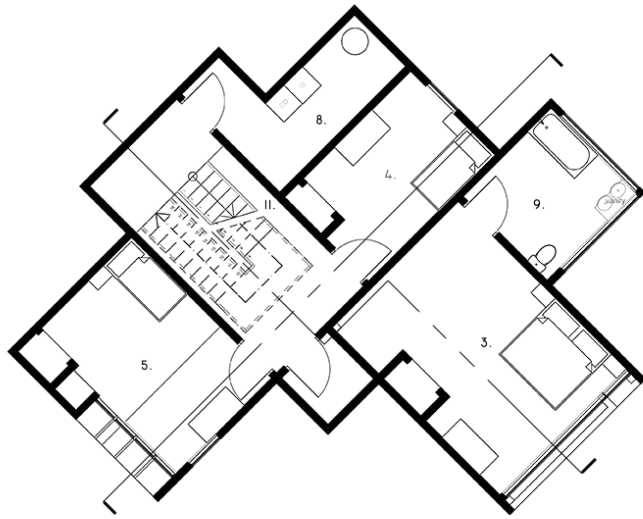
PROJECT DESCRIPTION: FOR DESIGN STUDIO 3 FALL QUARTER WE WERE ASKED TO DESIGN A HOME IN SWITZER CANYON LOCATED IN SAN DIEGO. THIS HOMES DESIGN IDEA WAS TO BE NET ZERO OR AS CLOSE AS WE COULD POSSIBLE GET TO A NET ZERO HOME USING OTHER METHODS TO HELP REGULATE THE HOMES TEMPERATURE.



KITCHEN INTERIOR PERSPECTIVE



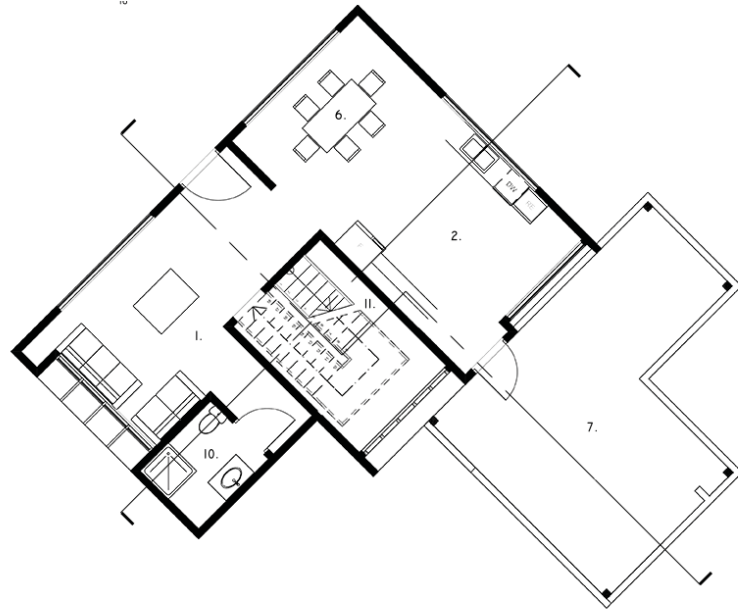
MASTER BEDROOM INTERIOR PERSPECTIVE



FIRST FLOOR PLAN



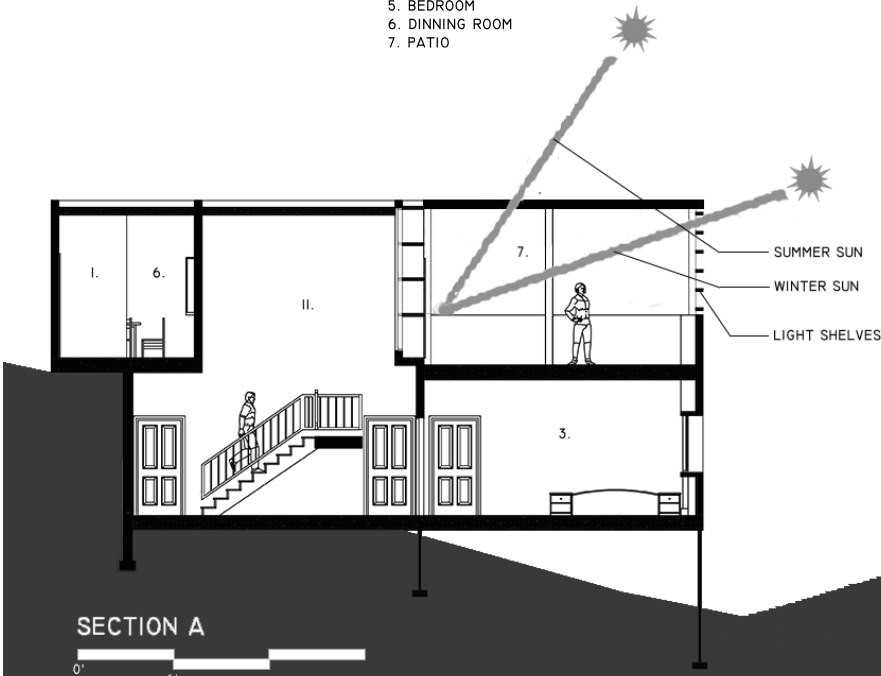
- 1. LIVING ROOM
- 2. KITCHEN
- 3. MASTER BEDROOM
- 4. BEDROOM
- 5. BEDROOM
- 6. DINNING ROOM
- 7. PATIO



SECOND FLOOR PLAN



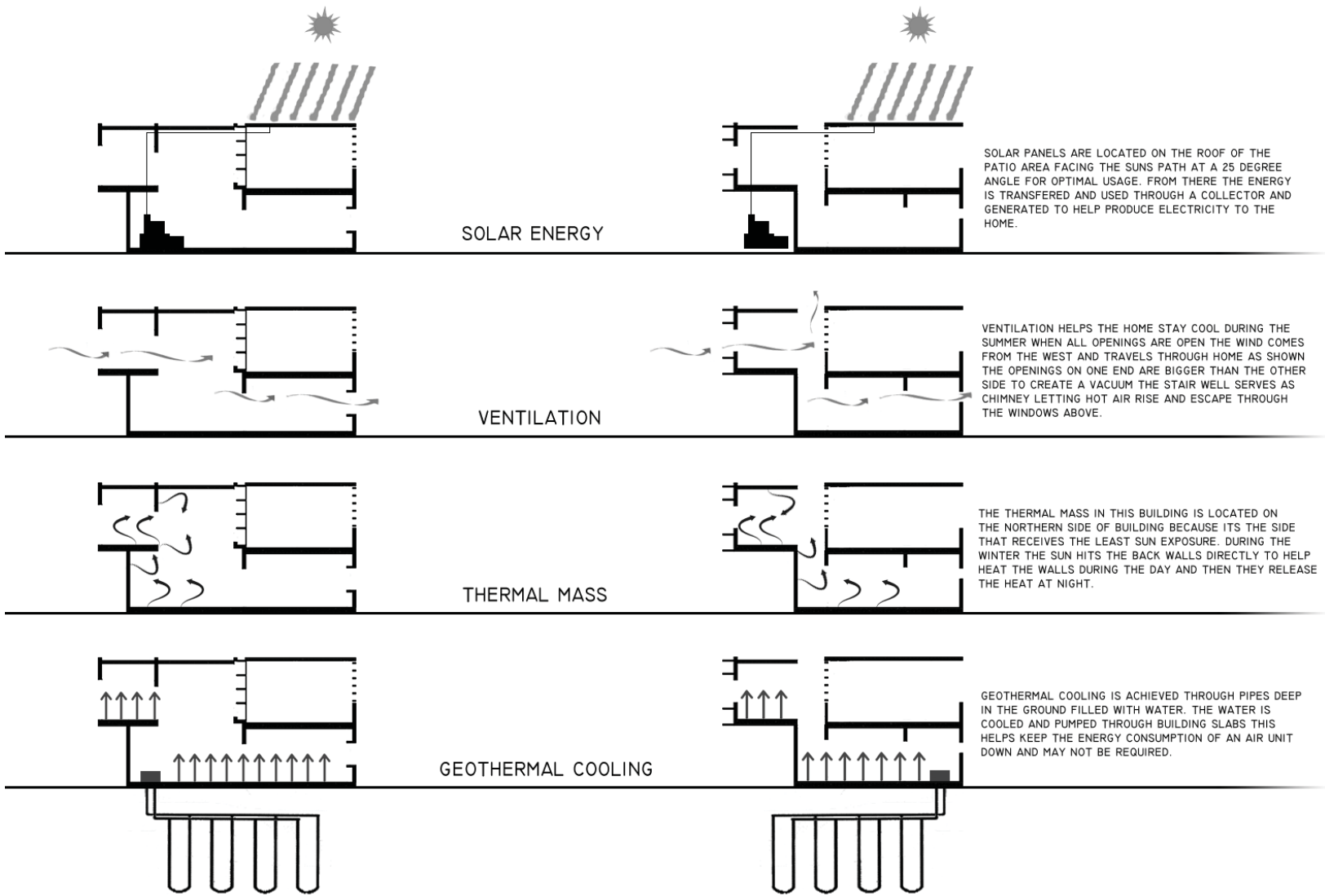
- 7. PATIO
- 8. MECHANICAL ROOM
- 9. BATHROOM
- 10. BATHROOM
- II. CIRCULATION



SECTION A



SECTION B



SOLAR ENERGY

SOLAR PANELS ARE LOCATED ON THE ROOF OF THE PATIO AREA FACING THE SUNS PATH AT A 25 DEGREE ANGLE FOR OPTIMAL USAGE. FROM THERE THE ENERGY IS TRANSFERED AND USED THROUGH A COLLECTOR AND GENERATED TO HELP PRODUCE ELECTRICITY TO THE HOME.

VENTILATION

VENTILATION HELPS THE HOME STAY COOL DURING THE SUMMER WHEN ALL OPENINGS ARE OPEN THE WIND COMES FROM THE WEST AND TRAVELS THROUGH HOME AS SHOWN THE OPENINGS ON ONE END ARE BIGGER THAN THE OTHER SIDE TO CREATE A VACUUM THE STAIR WELL SERVES AS CHIMNEY LETTING HOT AIR RISE AND ESCAPE THROUGH THE WINDOWS ABOVE.

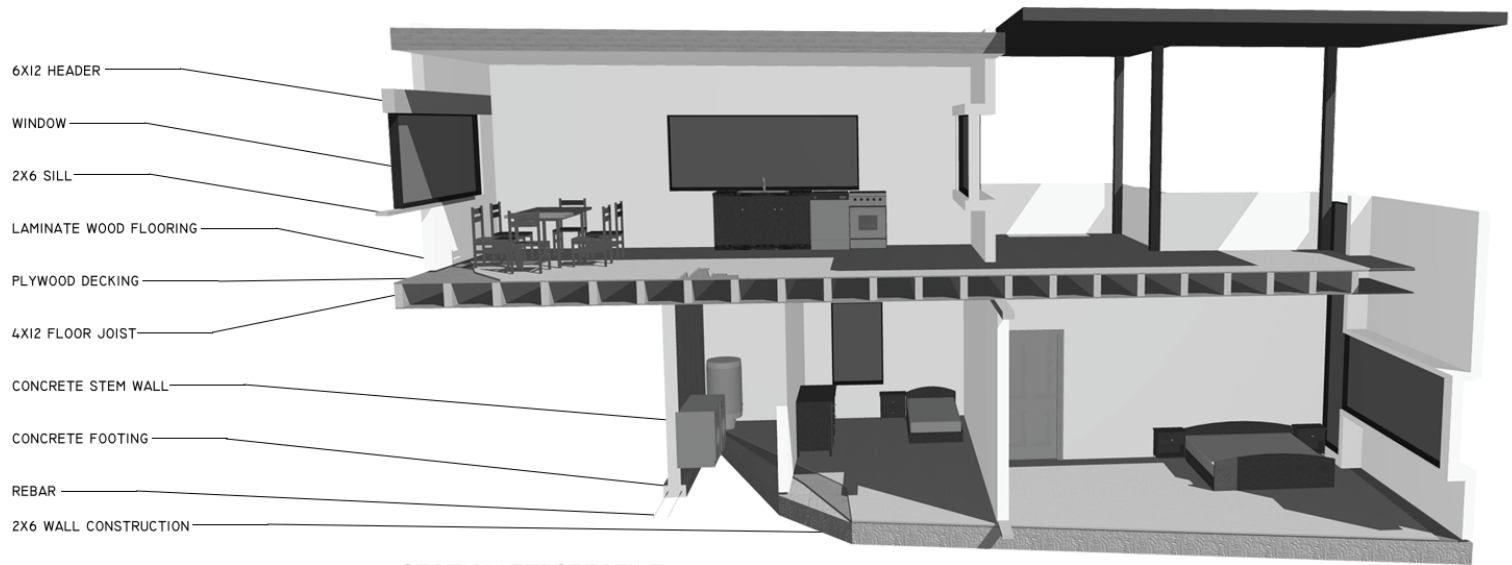
THERMAL MASS

THE THERMAL MASS IN THIS BUILDING IS LOCATED ON THE NORTHERN SIDE OF BUILDING BECAUSE ITS THE SIDE THAT RECEIVES THE LEAST SUN EXPOSURE. DURING THE WINTER THE SUN HITS THE BACK WALLS DIRECTLY TO HELP HEAT THE WALLS DURING THE DAY AND THEN THEY RELEASE THE HEAT AT NIGHT.

GEO THERMAL COOLING

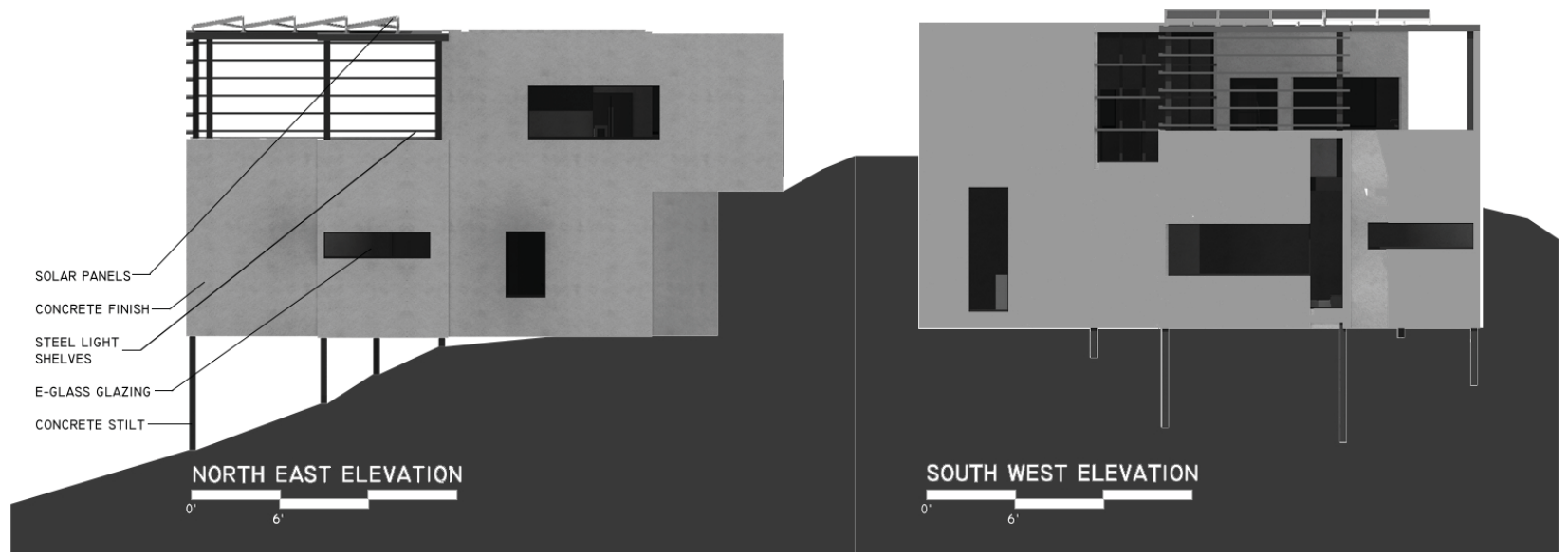
GEO THERMAL COOLING IS ACHIEVED THROUGH PIPES DEEP IN THE GROUND FILLED WITH WATER. THE WATER IS COOLED AND PUMPED THROUGH BUILDING SLABS THIS HELPS KEEP THE ENERGY CONSUMPTION OF AN AIR UNIT DOWN AND MAY NOT BE REQUIRED.

ENERGY EFFICIENT SYSTEMS



- 6X12 HEADER
- WINDOW
- 2X6 SILL
- LAMINATE WOOD FLOORING
- PLYWOOD DECKING
- 4X12 FLOOR JOIST
- CONCRETE STEM WALL
- CONCRETE FOOTING
- REBAR
- 2X6 WALL CONSTRUCTION

SECTION PERSPECTIVE



- SOLAR PANELS
- CONCRETE FINISH
- STEEL LIGHT SHELVES
- E-GLASS GLAZING
- CONCRETE STILT

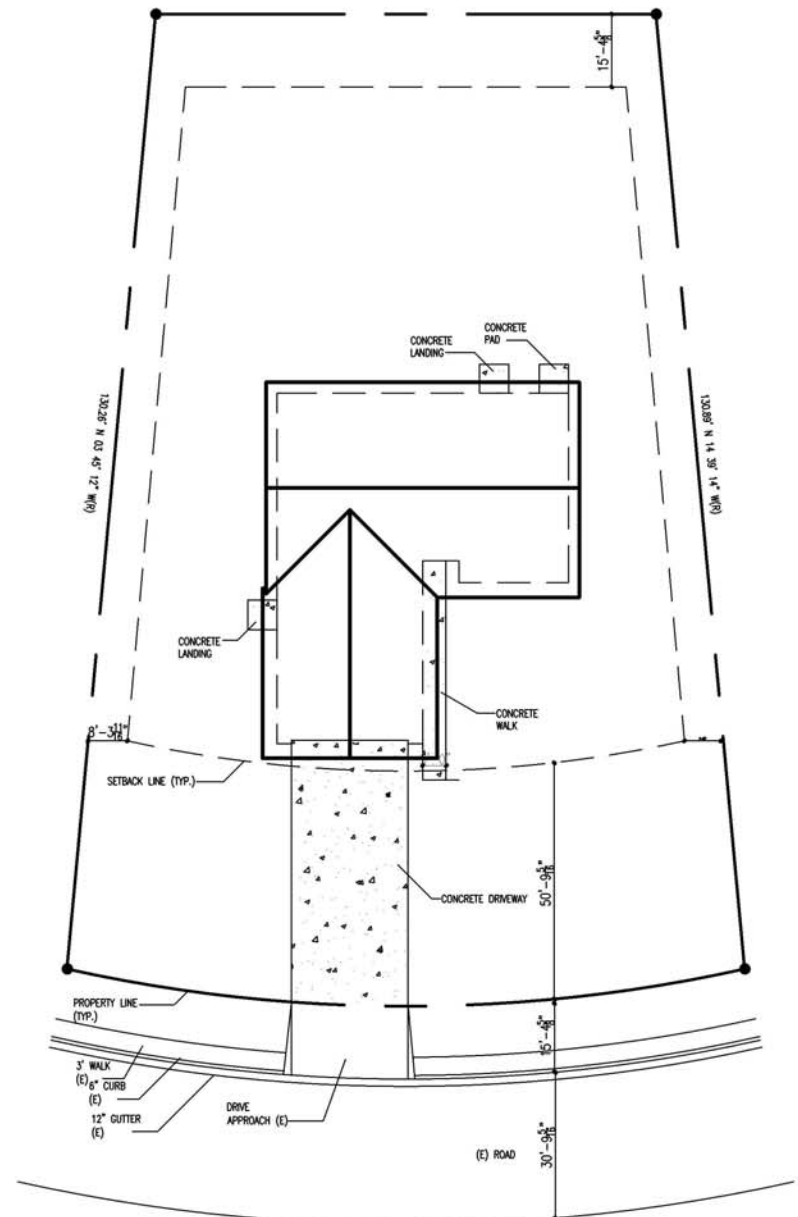
NORTH EAST ELEVATION

SOUTH WEST ELEVATION

PROJECT INFORMATION:	
USE: SINGLE FAMILY RESIDENCE	
ADDRESS: 1234 LOONEY STUDENT DRIVE VESALIA CA 93277	
NUMBER OF STORES: 1	
BUILDING OCCUPANCY: R-3	
CONSTRUCTION TYPE: 3E-A	
ZONE: RESIDENTIAL	
SQUARE FOOTAGE:	
AIR CONDITIONED : 1,014	
NON AIR CONDITIONED : 459	
TOTAL: 1,473 S.F.	
APPLICABLE CODES:	
BUILDING/ACCESSIBILITY: 2013 CALIFORNIA ADMINISTRATIVE CODE PART 1 TITLE 24 C.C.R. 2013 CALIFORNIA BUILDING CODE (C.B.C.); PART 2, TITLE 24 C.C.R. INCORPORATING BY ADOPTION THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS. 2013 CALIFORNIA REFERENCED STANDARDS CODE PART 12, TITLE 24 C.C.R. 2013 CALIFORNIA RESIDENTIAL CODE (C.R.C.); PART 5, TITLE 24 C.C.R. INCORPORATING BY ADOPTION THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE AND STATE AMENDMENTS.	
PLUMBING:	2013 CALIFORNIA PLUMBING CODE (C.P.C.); PART 5, TITLE 24 C.C.R. (2012 IAPMO UNIFORM PLUMBING CODE AND STATE AMENDMENTS).
MECHANICAL:	2013 CALIFORNIA MECHANICAL CODE (C.M.C.); PART 4, TITLE 24 C.C.R. (2010 UNIFORM MECHANICAL CODE AND STATE AMENDMENTS).
ELECTRICAL:	2013 CALIFORNIA ELECTRICAL CODE (C.E.C.); PART 3, TITLE 24 C.C.R. (2011 NATIONAL ELECTRIC CODE AND STATE AMENDMENTS).
FIRE:	2013 CALIFORNIA CODE (C.F.C.); PART 8, TITLE 24 C.C.R. INCORPORATING BY ADOPTION THE 2012 EDITION OF THE INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS. 2013 TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL.
RESIDENTIAL FIRE SPRINKLERS:	2013 CALIFORNIA FIRE CODE (SEC. 903) (2012 INTERNATIONAL FIRE CODE) 2013 CALIFORNIA RESIDENTIAL CODE (SEC. 9313), 2010 NFPA 13 (SEC. 8.4.3), 2010 NFPA 130 2013 CALIFORNIA PLUMBING CODE (SEC. 603.4.16) 2013 CALIFORNIA ELECTRICAL CODE ART. 760, 2010 NFPA 11, CALIFORNIA HEALTH & SAFETY CODE: 13114.7, AND MANUFACTURERS SPECIFICATIONS
ENERGY:	2013 CALIFORNIA ENERGY CODE AND ENERGY COMMISSION STANDARDS (C.E.C.S.); PART 6 TITLE 24 C.C.R., 2013 CALIFORNIA GREEN BUILDING STANDARDS (C.G.B.S.); PART 8, TITLE 24, C.C.R.
CONTRACTOR SHALL REFER TO THE ABOVE CITED CODES AND LOCAL REGULATIONS WHERE SPECIFIC DETAILS ARE REQUIRED BUT NOT DEPICTED IN THE APPROVED PLANS.	
SHEET INDEX:	
ARCHITECTURAL	
A-1	SITE/ROOF PLAN, VICINITY MAP, PROJECT INFORMATION & SHEET INDEX
A-2	FLOOR PLAN & NOTES
A-3	REFLECTED CEILING PLAN & NOTES
A-4	EXTERIOR ELEVATIONS & NOTES
A-6	SCHEDULES: DOOR, WINDOW, INTERIOR FINISH, EXTERIOR FINISH, & MODULAR CASEWORK
STRUCTURAL	
S-1	FOUNDATION PLAN & NOTES
S-2	ROOF FRAMING PLAN & NOTES
MECHANICAL	
P-1	PLUMBING & NOTES
M-1	MECHANICAL PLAN & NOTES
FS-1	FIRE SPRINKLER PLAN & NOTES
ELECTRICAL	
E-1	ELECTRICAL PLAN & NOTES



VICINITY MAP
NO SCALE



SITE PLAN: 

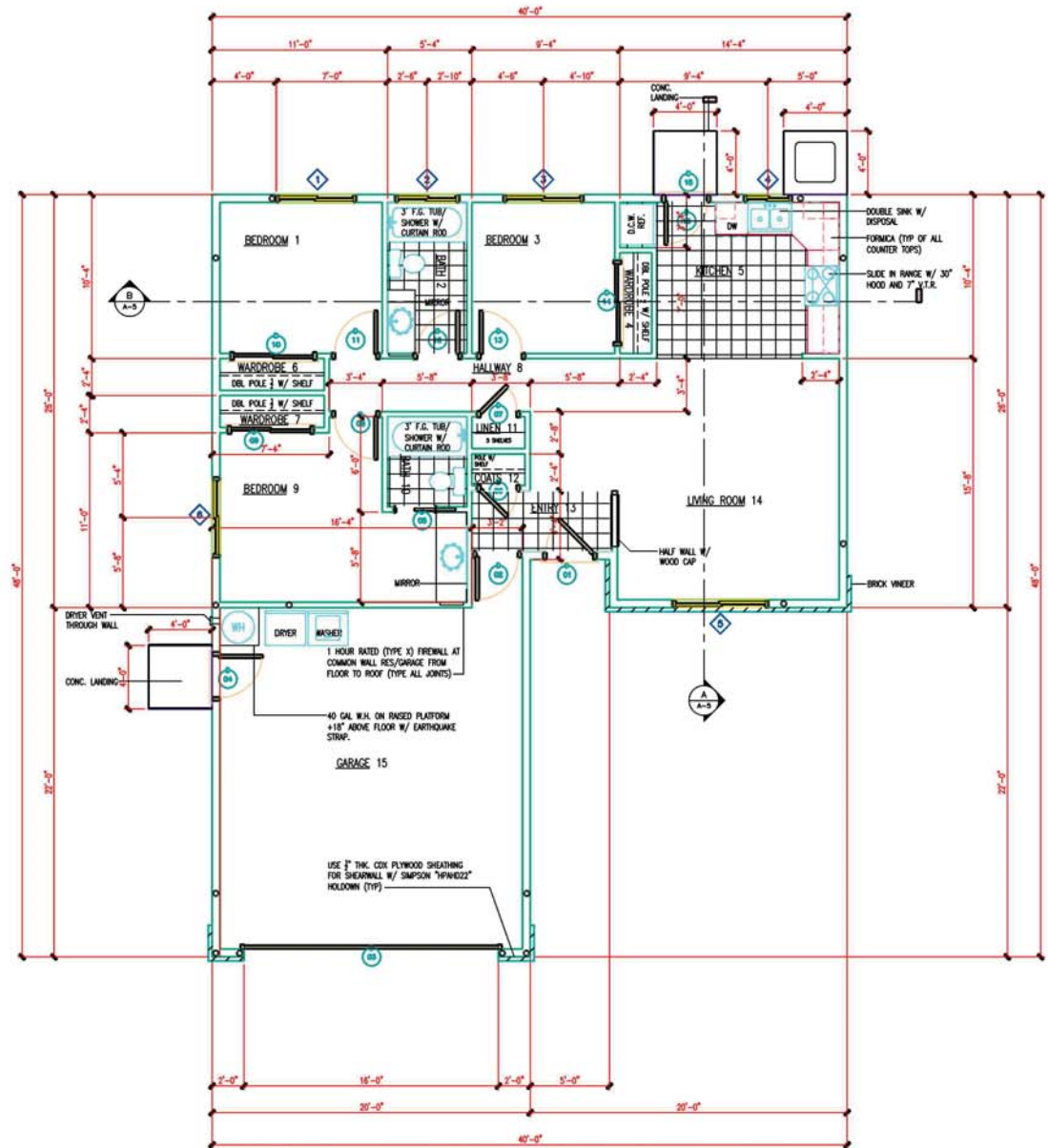
$\frac{1}{8}'' = 1' - 0''$

FLOOR PLAN NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITIONS AND ORDINANCE IN AFFECT AT THE PLACE OF WORK. NOTHING IN THESE DRAWINGS SHALL BE INTERPRETED TO ALLOW WORK NOT CONFORMING.

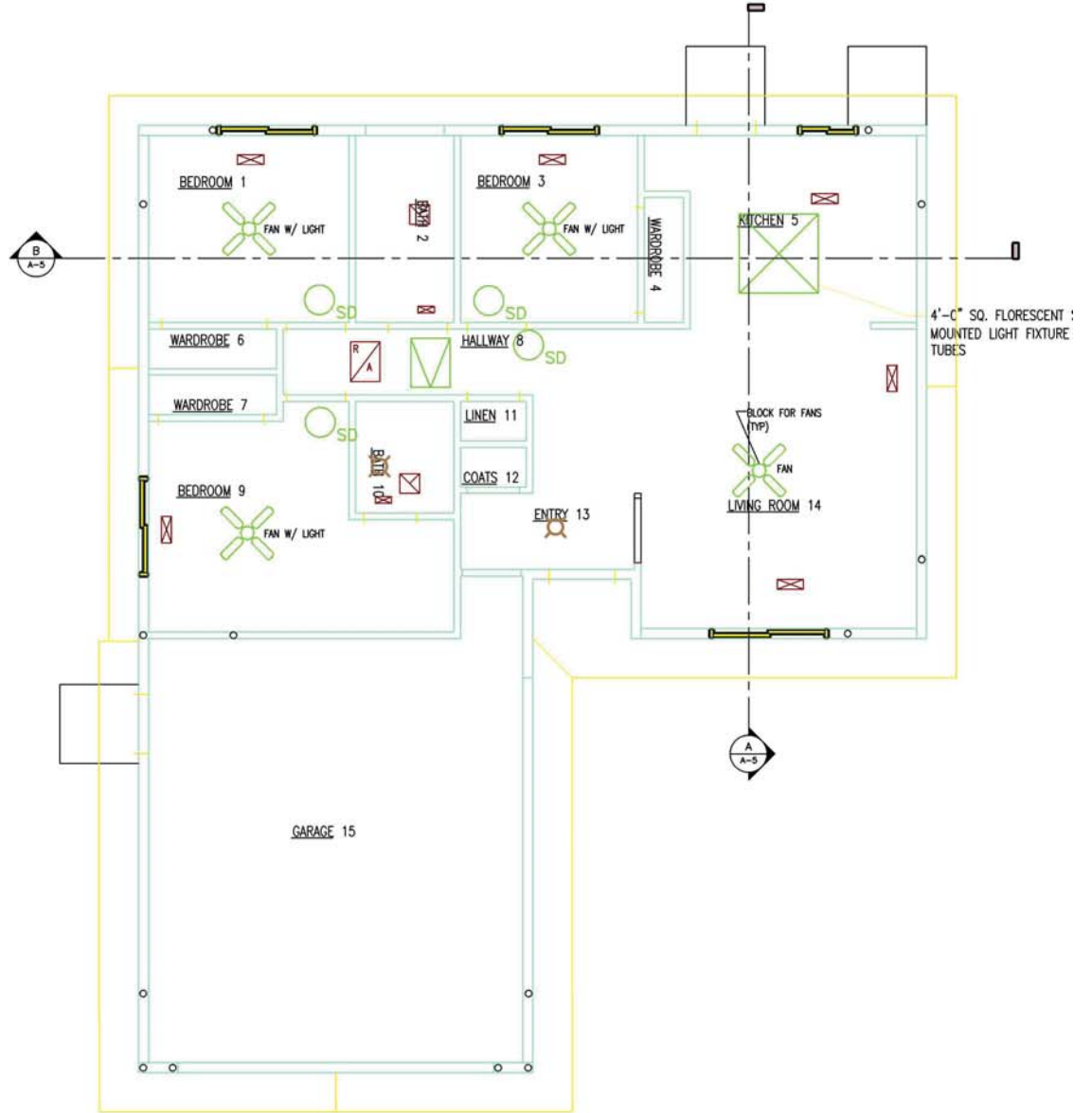
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ALL DISCREPANCIES BETWEEN DIMENSIONS OF THE ACTUAL AND THOSE SHOWN IN THE DOCUMENTS OR ENGINEER APPROVED SHOP DRAWINGS.

3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL QUANTITIES OF MATERIALS AND/OR EQUIPMENT CALLED FOR TO PROPERTY COMPLETE THE WORK.



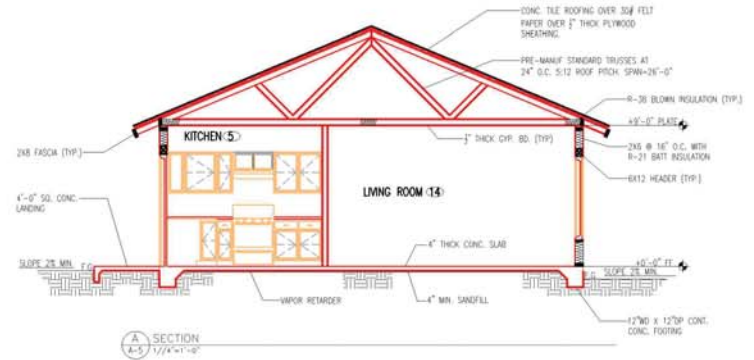
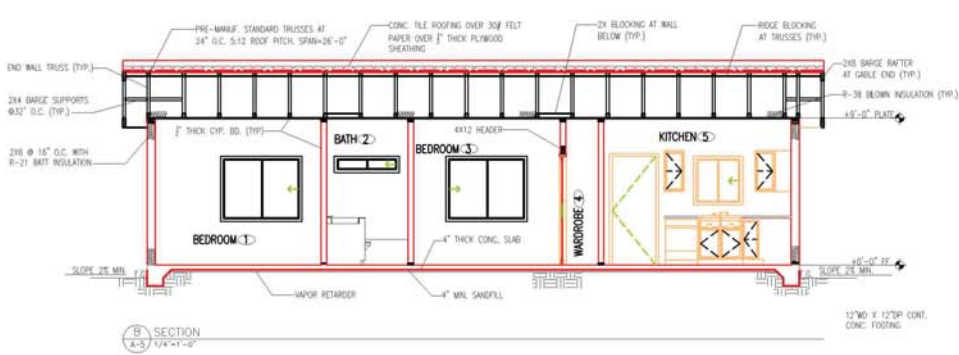
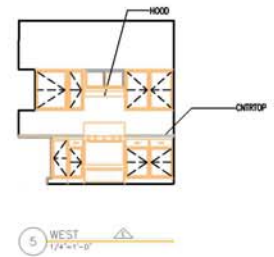
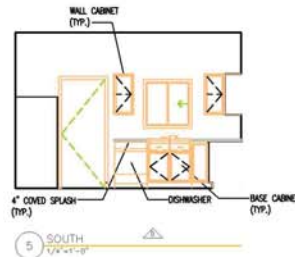
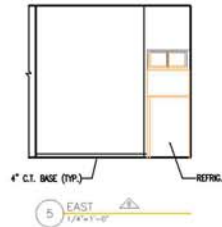
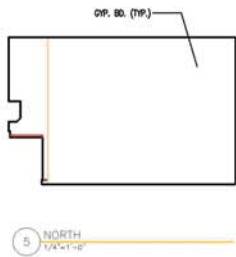
FLOOR PLAN: 
SCALE 1/8"

REFLECTED CEILING PLAN LEGEND	
MARK	DESCRIPTION
	SUPPLY AIR GRILL
	RETURN AIR GRILL
	EXHAUST FAN
	RECESSED LIGHT FIXTURE
	SMOKE DETECTOR
	ACCESS PANEL 22"X30" TO ATTIC W/ 30" MIN HEADROOM
	CEILING FAN W/ LIGHT



REFLECTED CEILING PLAN:

$\frac{1}{8}'' = 1' - 0''$



SECTIONS & INTERIOR ELEVATIONS:
SCALE AS NOTED

FOUNDATION PLAN NOTES:

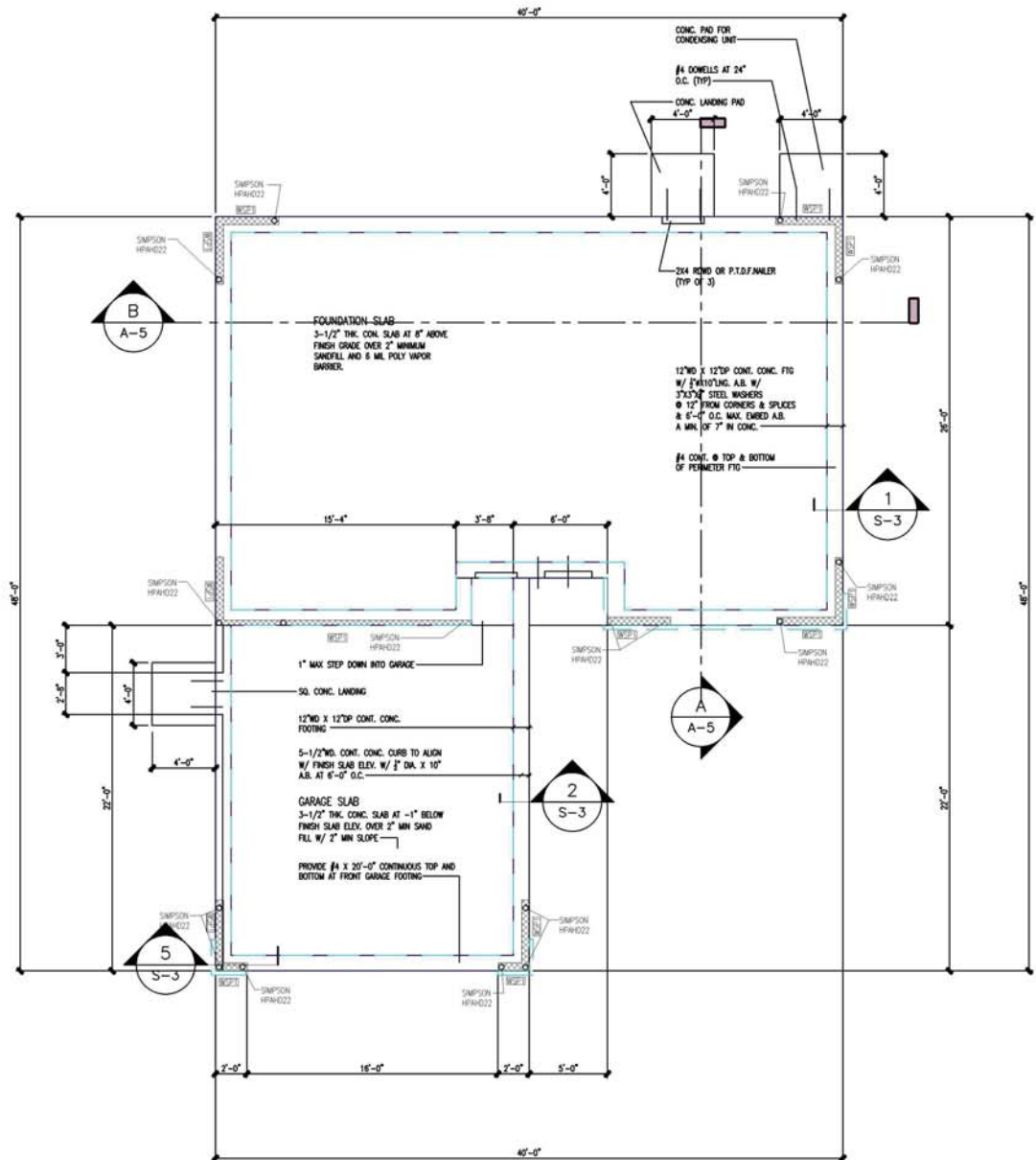
1. PROVIDE PRESSURE TREATED SILL WITH $\frac{1}{2}$ "X10 LONG ANCHOR BOLTS AT 12" FROM CORNERS AND SPLICES AND 6'-0" O.C. MAXIMUM.
2. ALL CONCRETE SHALL BE 2500 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
3. TOP OF FINISH SLAB SHALL BE A MINIMUM OF +8" ABOVE CURB OR CROWN OF STREET.
4. ALL MOULDS, ORNAMENTS, GROOVES, CLIPS, ANCHOR BOLTS, ETC. SHOWN ON THE DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.
5. REINFORCED STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS AND SHALL CONFORM TO A.S.M.T. A-615, GRADE 40, UNLESS NOTED OTHERWISE.
6. ALL REINFORCED STEEL, ANCHOR BOLTS, DOWELS, AND OTHER INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO POURING CEMENT.
7. ALL REINFORCING SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS:
 SURFACE POURED AGAINST EARTH 3" MINIMUM
 FORMED SURFACES EXPOSED TO GROUND OR WEATHER 2" MINIMUM
8. THE EXISTING UPPER 6" OF SUBGRADE AND FILL UNDER BUILDING TO HAVE 95% RELATIVE COMPACTION AS PER U.B.C. STANDARD.
9. VERIFY LOCATION OF HOLD-DOWNS AND PTDF NAILERS.
10. SURFACE WATER WILL BE DRAINED AWAY FROM BUILDING FOR AT LEAST 3'-0" WITH A MINIMUM GRADE AT 2%.

SHEAR WALL PANEL SCHEDULE:

SYMBOL	SHEATHING	EDGE NAILING	FIELD NAILING	EDGE STUD MARKING	SILL BOLTING AT FOUND	SILL NAILING AT UPPER STORES	HOLD-DOWNS	NOTES
WCE2	1/2" PLYWOOD OR OSB	80M4" O.C.	80@12" O.C.	2X	1" DIA. @ 32" O.C.	NA	LOCATIONS PER PLAN	1'-4"-0"

FOUNDATION PLAN:

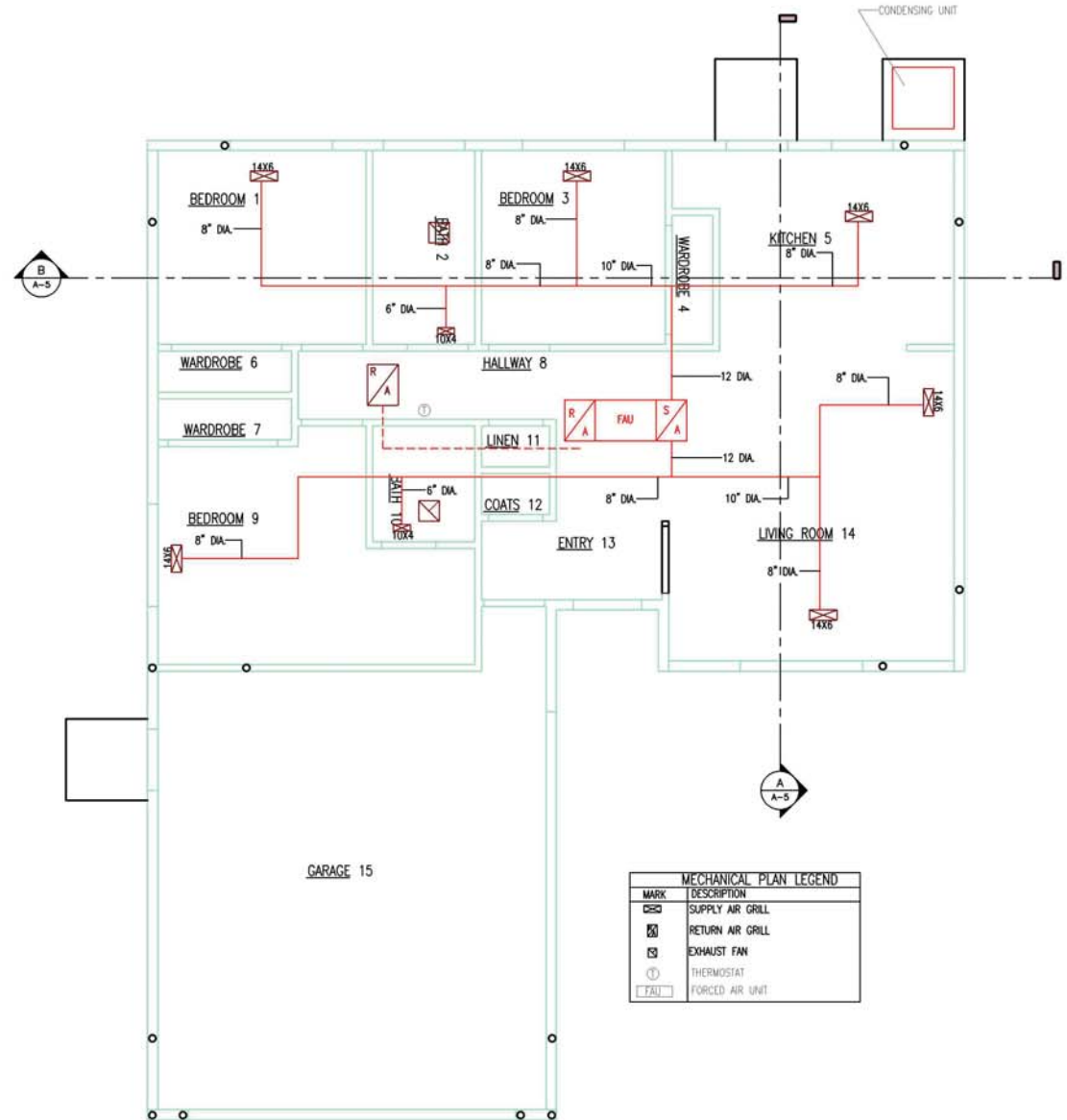
$\frac{1}{8}$ " = 1'-0"



MECHANICAL PLAN NOTES:

1. A/C LAYOUT IS SCHEMATIC ONLY. INSTALLING CONTRACTOR IS TO REVIEW DESIGN AND ASSUME FULL RESPONSIBILITY FOR PROPER AIR DELIVERY OPERATION AND ACCEPTABLE BOISE LEVEL.
2. PROVIDE INSULATION IN WALLS AND CEILING AS SPECIFIED IN THE TITLE-24 ENERGY COMPLIANCE CALCULATIONS.
3. ANY H.V.A.C. EQUIPMENT SUBSTITUTED FOR THAT SHOWN ON PLANS SHALL BE C.E.C. CERTIFIED AND EQUIVALENT OR BETTER WITH RESPECT TO PERFORMANCE AND EFFICIENCY SPECIFICATIONS.
4. DUCTS CONSTRUCTED, INSTALLED, AND INSULATED PER CHAPTER 6 OF 1994 U.B.C. OR APPLICABLE CHAPTER OF LATEST ADOPTABLE CODE.
5. ALL COOLERS FORCED OR MECHANICAL AIR INTAKE UNITS TO BE MOUNTED A MINIMUM OF 10'-0" HORIZONTALLY OR 3'-0" MINIMUM ABOVE ANY PLUMBING OR HEATING VENT.
6. THERMOSTATS TO BE OF SETBACK VARIETY.
7. THE PILOT SPARK IGNITION AND ALL CONTROLS TO BE A MINIMUM OF 18" ABOVE GARAGE FLOOR IF APPLICABLE.
8. PROVIDE 50% OF COMBUSTION AIR FOR FURNACE AT UPPER 12" OF SPACE AND 50% AT LOWER 12" OF SPACE.
9. FREON LINES INSTALLED UNDER SLAB SHALL BE CONSTRUCTED OF 26 GA. GALVANIZED SHEET METAL. PROVIDE AN AIR TIGHT SEAL AROUND DUCT.
10. RETURN AIR DUCTS SHALL BE CONSTRUCTED OF 26 GA. GALVANIZED SHEET METAL FROM F.A.U. UNTIL UNDER RESIDENCE FOOTING IF APPLICABLE.
11. ALL DUCTS PENETRATING RESIDENTIAL/GARAGE WALL SHALL BE CONSTRUCTED OF 26 GA. GALVANIZED SHEET METAL. PROVIDED AN AIR TIGHT SEAL AROUND DUCT.
12. ALL DUCTS IN GARAGE TO BE 26 GA. GALVANIZED SHEET METAL.
13. F.A.U. SHALL BE LISTED AS APPROVED FOR USE IN AN ENCLOSURE IF APPLICABLE.
14. FOR VENT SYSTEM IN BATHROOMS PROVIDE 5 AIR CHANGES PER HOUR TO OUTSIDE. POINT OF DISCHARGE OF EXHAUST AIR SHALL BE 3'-0" FROM ANY MECHANICAL VENTILATING INTAIL AND 3'-0" MINIMUM FROM PROPERTY LINES.

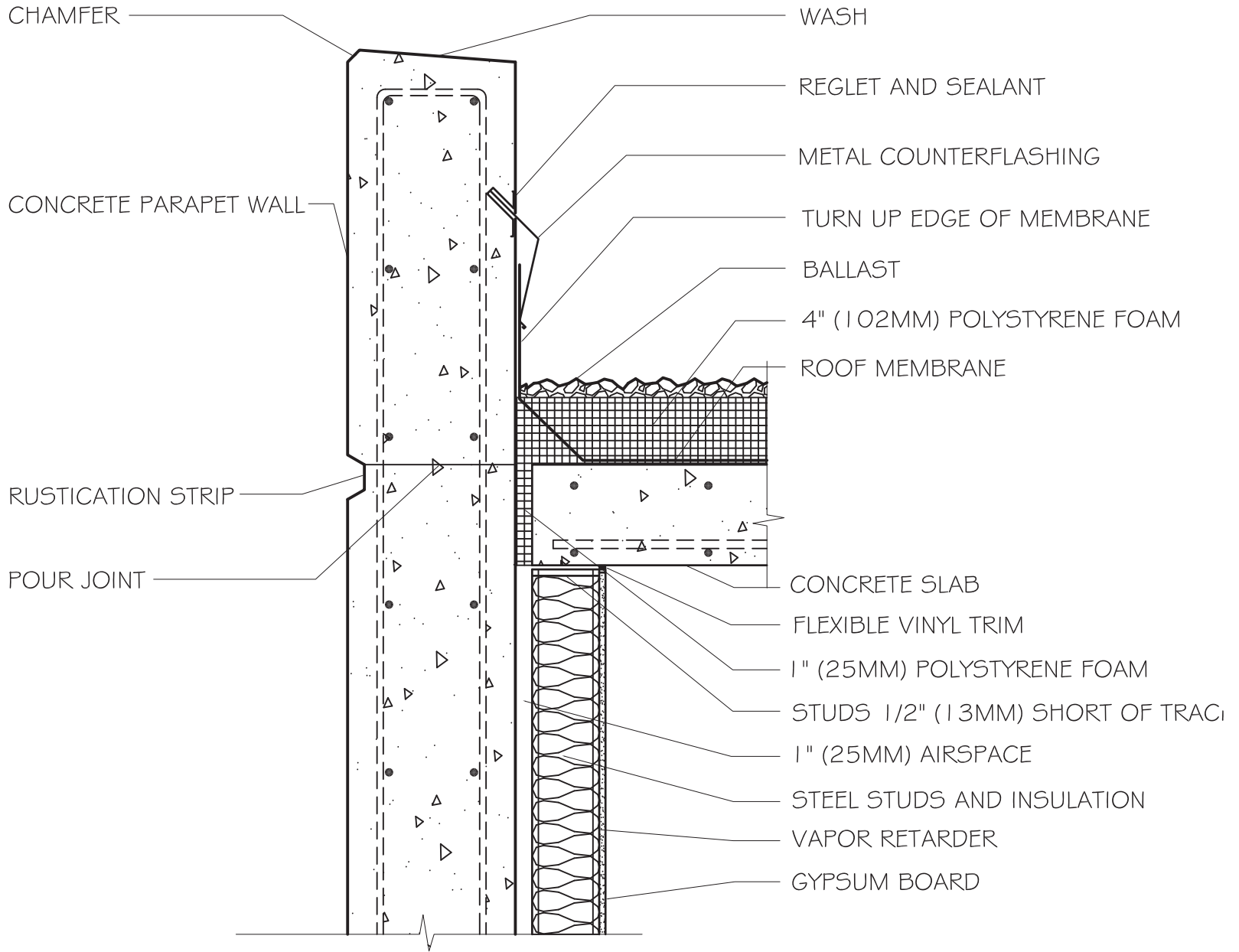
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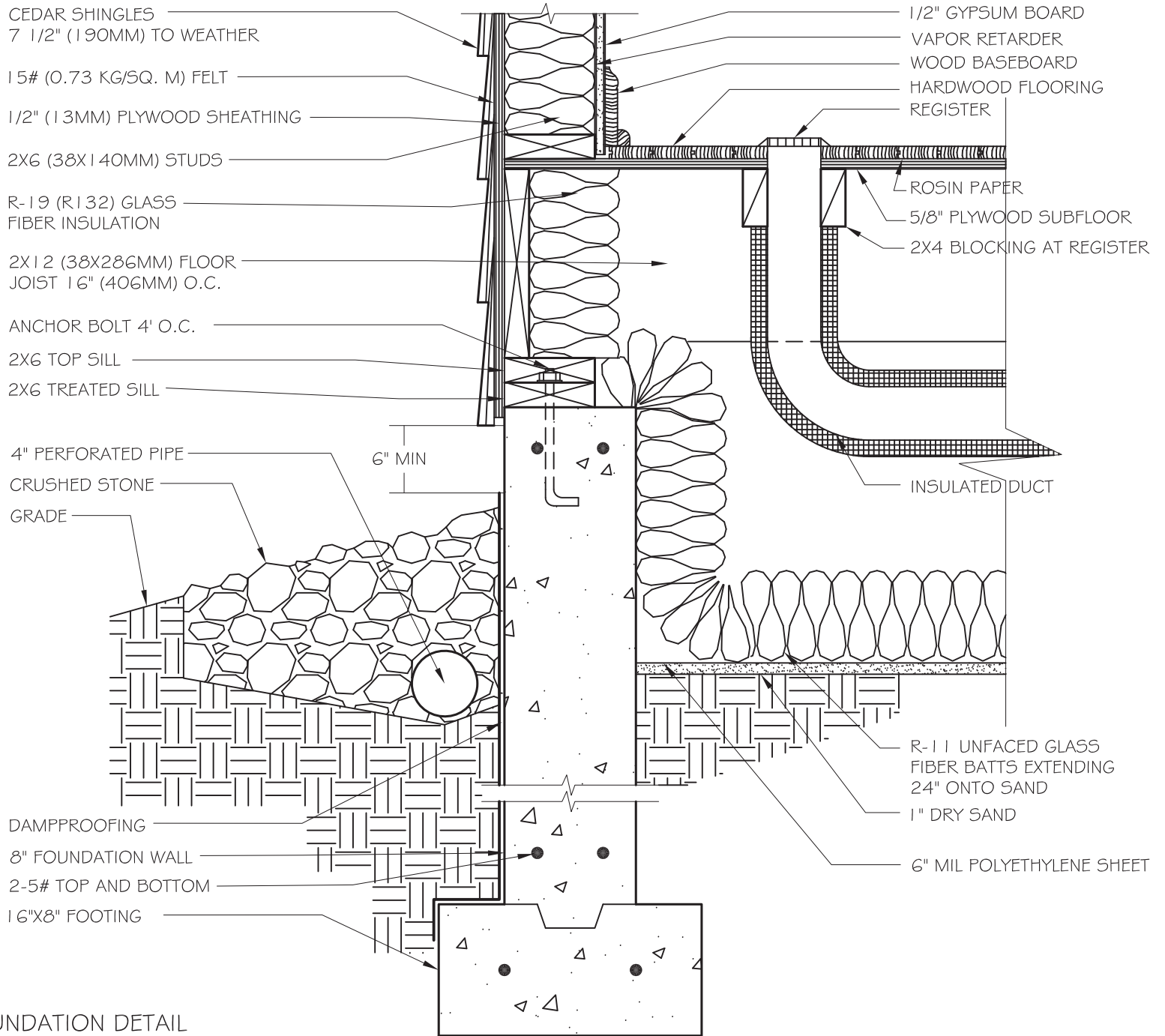
MECHANICAL PLAN LEGEND	
MARK	DESCRIPTION
□	SUPPLY AIR GRILL
⊠	RETURN AIR GRILL
⊞	EXHAUST FAN
⊕	THERMOSTAT
□	FORCED AIR UNIT

MECHANICAL PLAN: 

$\frac{1}{8}'' = 1' - 0''$



PARAPET SECTION



FOUNDATION DETAIL

SHEET METAL PEC DIVIDER

MASTIC AIR BARRIER

2" (51MM) POLYSTYRENE FOAM

PLASTIC CLIPS

CAVITY

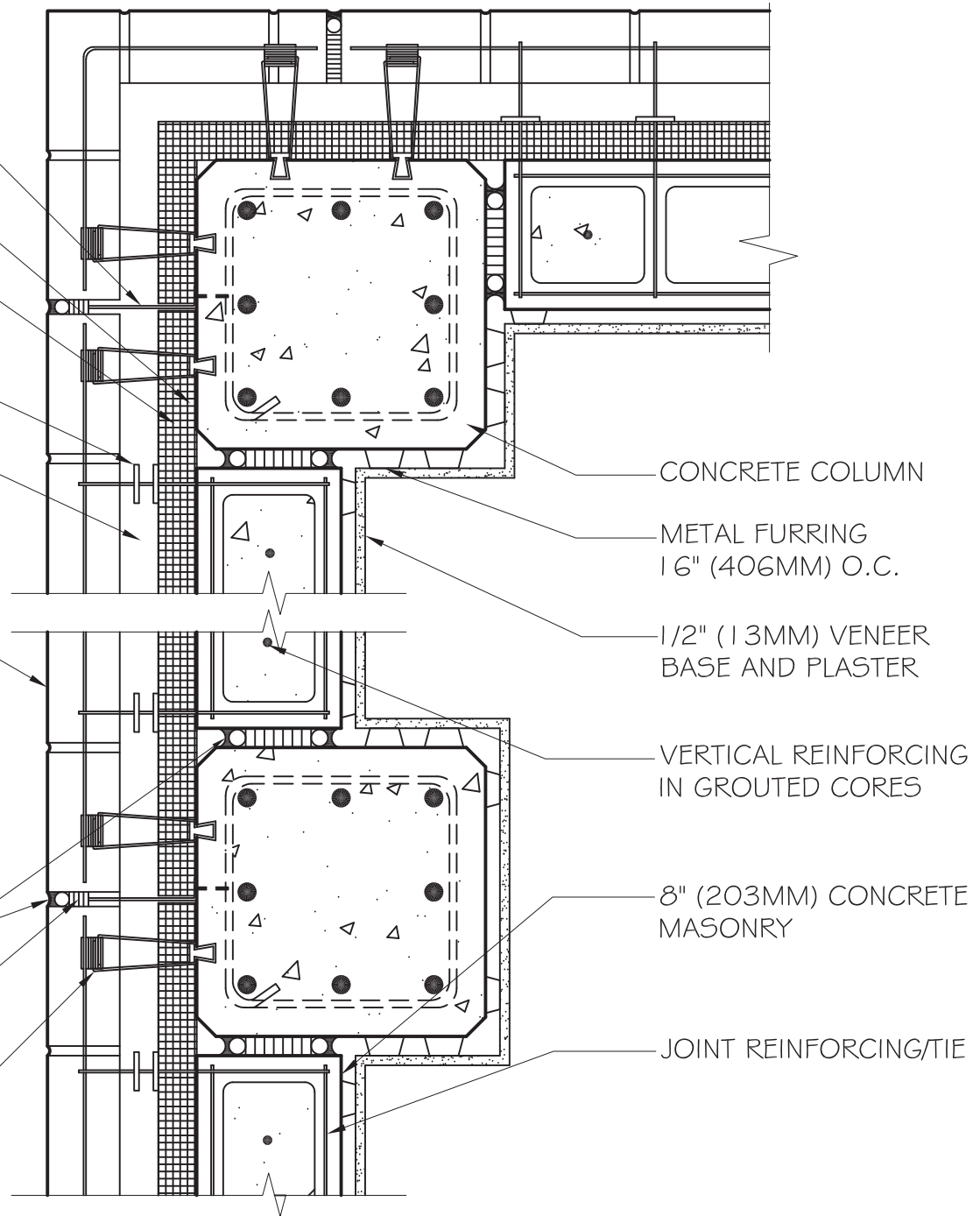
BRICK FACING

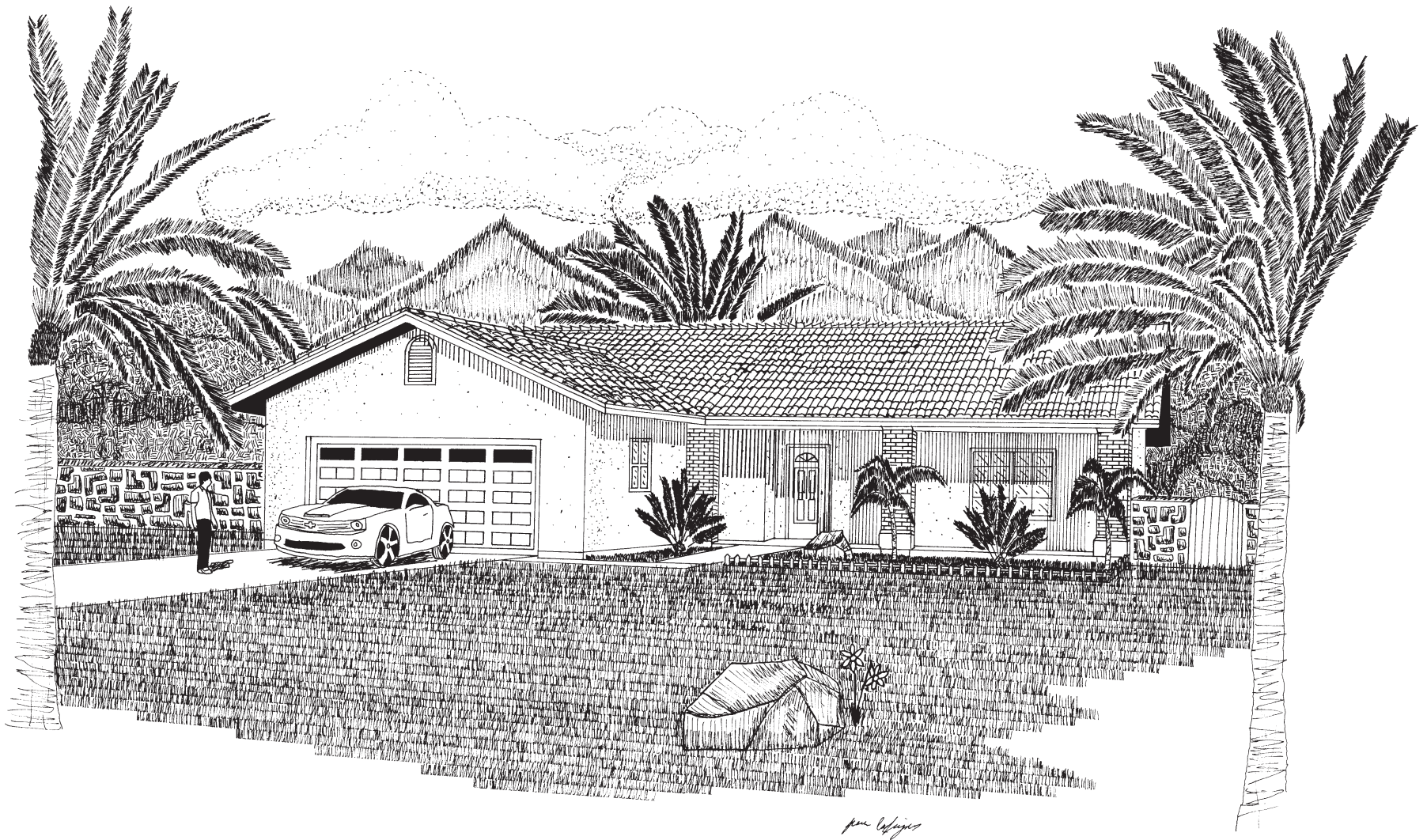
BACKER ROD AND SEALANT

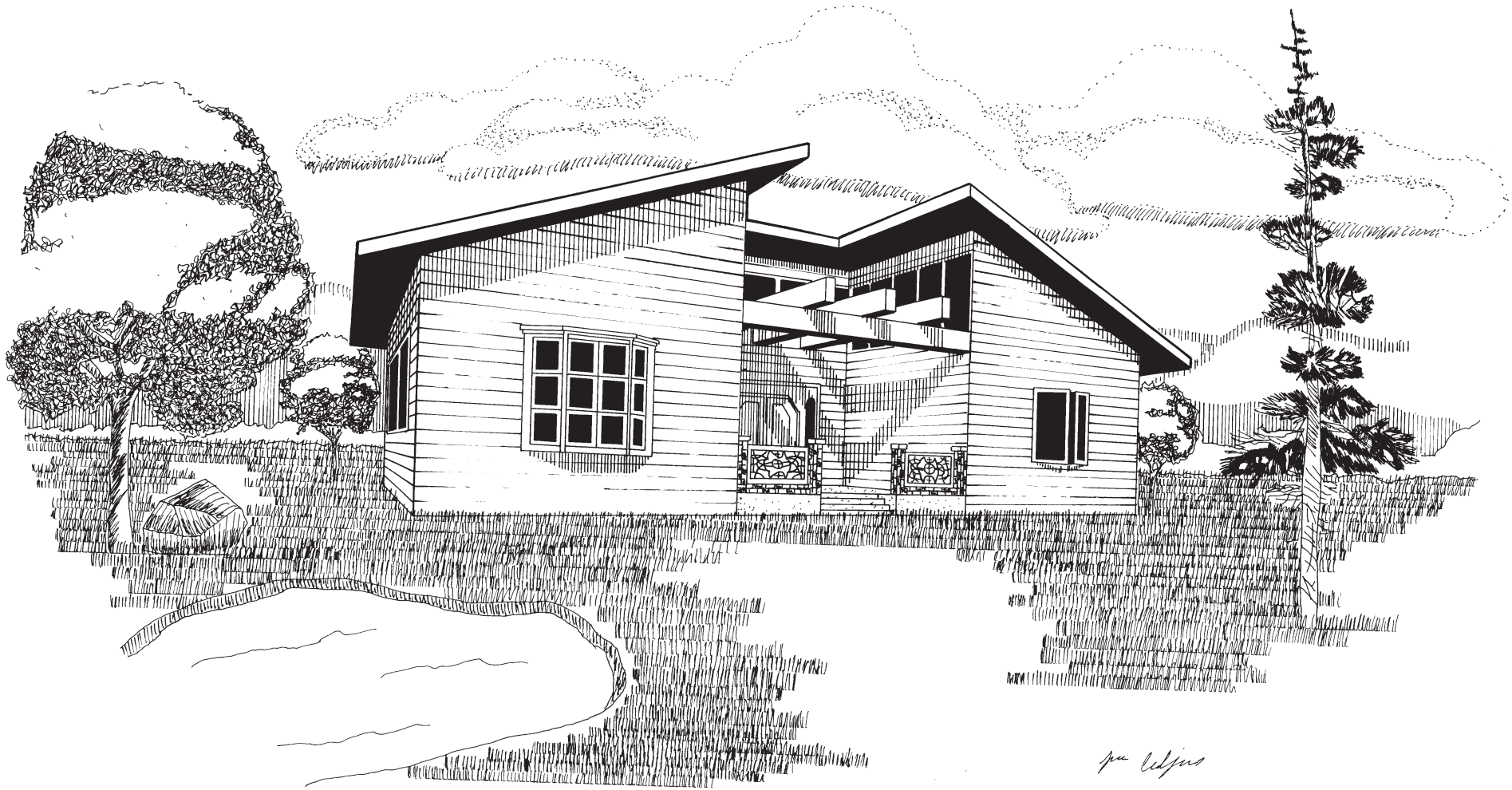
COMPRESSIBLE JOINT FILLER

TIES IN DOVETAIL SLOTS

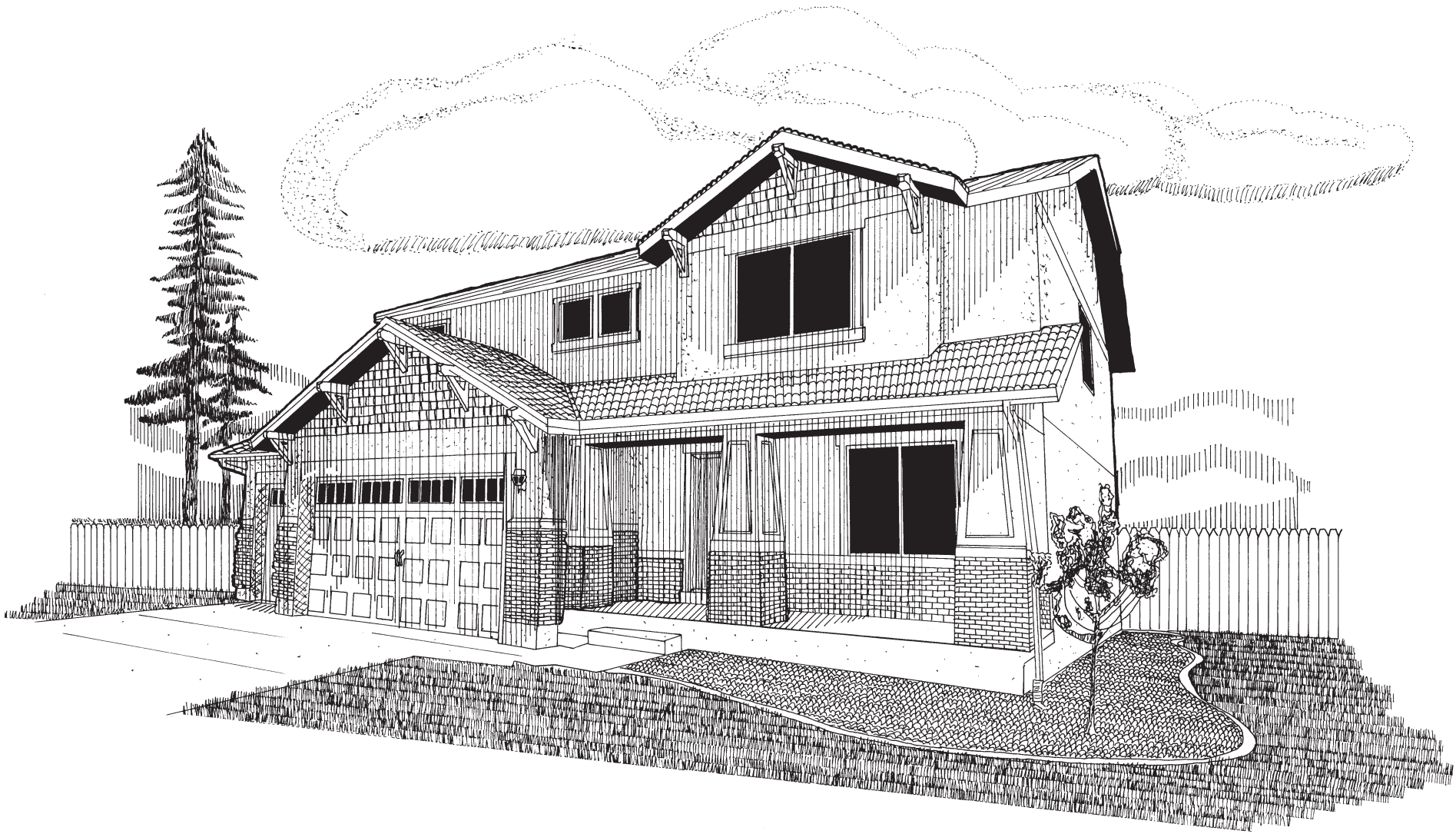
PLAN AT COLUMN







for Celjus



Jim Collins

