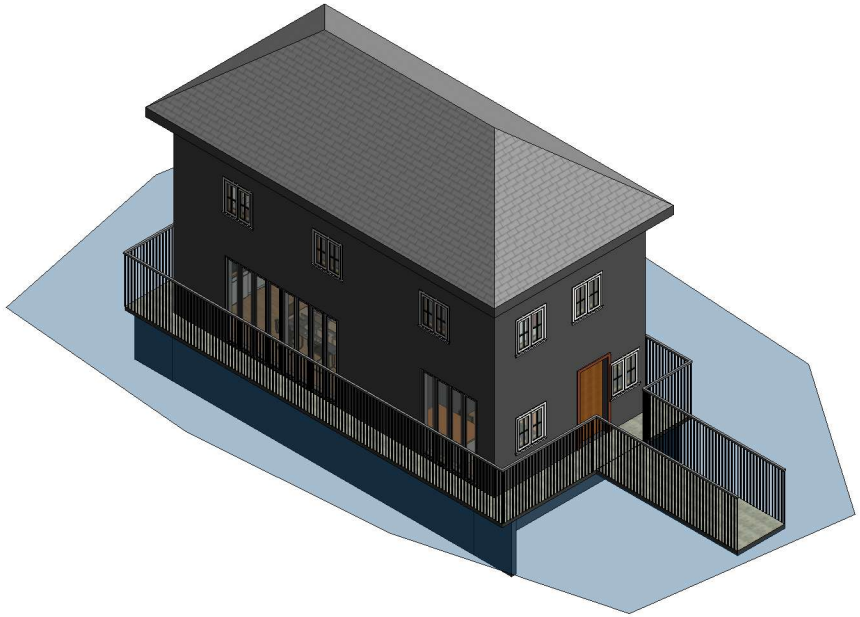
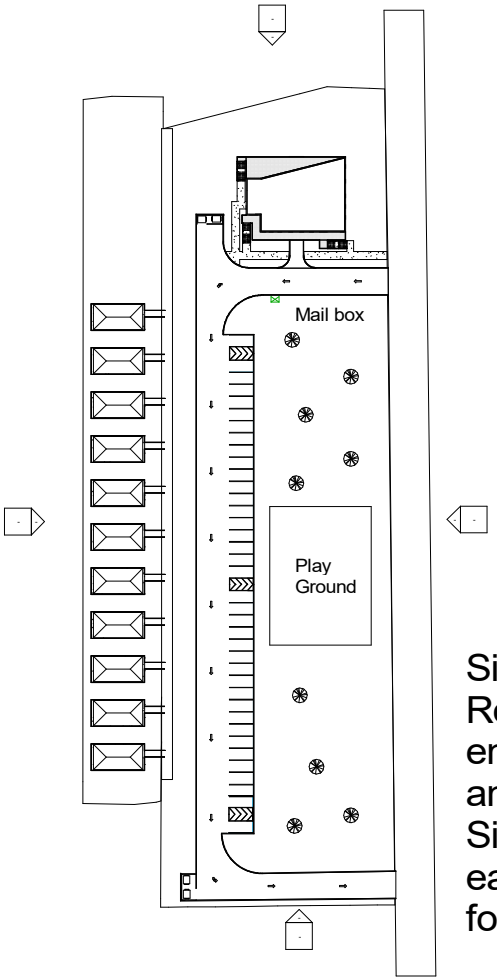


1 {3D}

Project 3: Resilient House with Community

Clients are a family of four, parents and two children. They bought this area down in Seaford NY that is near the water. they want me to design a small community for them that will be place in this area. The community will have their house, other house to rent to their extended family. Also a community house for larger gathering and other things that I believe will suit their needs on this property. There are two main requirement they want me to fulfill with this design. First there house needs to be ADA approve because they have disabled family member that visits. Second this area is prone to major flooding, especially huge storms like sandy and want be to make sure that their community could survive a storm like that if it were to happen ever again.

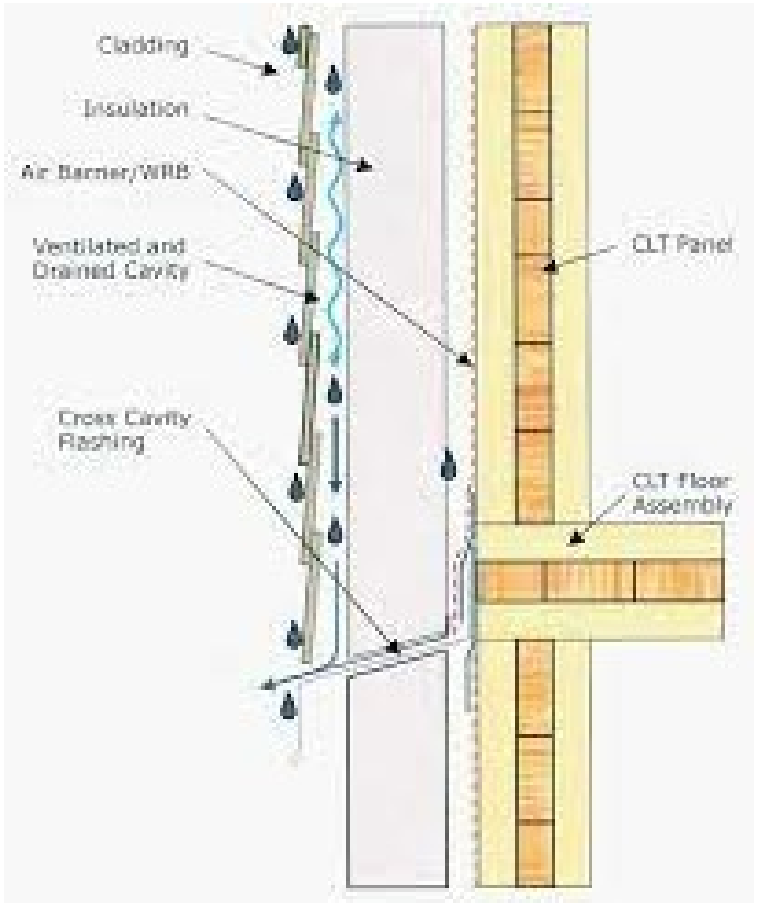
Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community Cover sheet	C1 Scale: 1/8" =1'0"



Site is in Seaford, NY
Road into site is one way with entrance adjacent to Somerset DR and exit adjacent to Naomi st.
Site will have a drive up mail box for easy acess to mail and a play ground for the kids in the middle of the grass

① Site
1" = 40'-0"

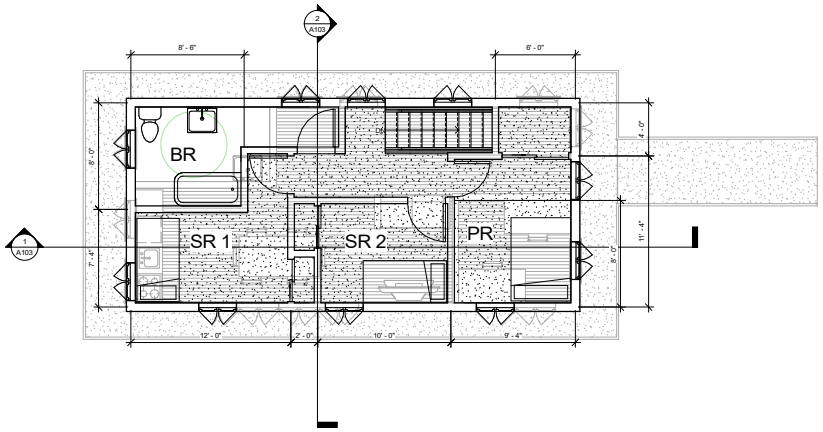
Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community Site Plans	S1 Scale: 1/8" =1'0"



Both the floating house and community house will be made from CLT panels due to their light weight and easy form of assembly

The downside of CLT is the exposure to moisture can cause it to rot. But with the additon of waterproof vinyl, vapor barrier, insulation, and cladding. As well as having cavitys within the wall, allowing the moisture to escape and not build up in the wall causing rot. The CLT will be able to survive.

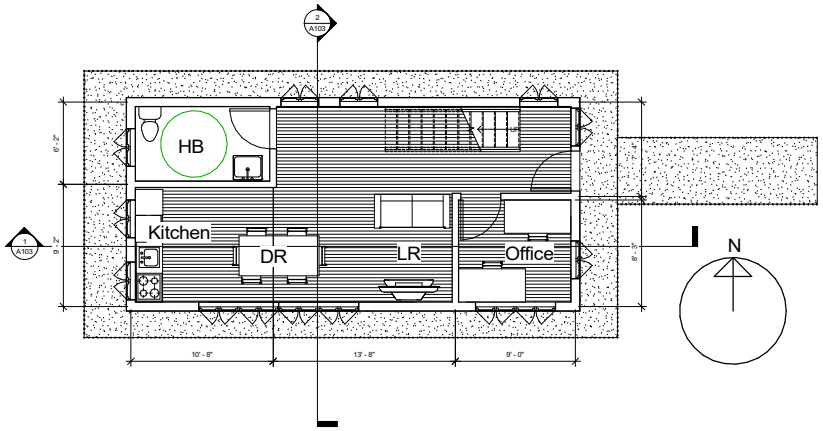
Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community Wall detail	M1 Scale: NA



Level 2
1/4" = 1'-0"

Second Floor: 34'x16'=544 SF

- Bathroom- 68 SF
- Primary room- 105.71 SF
- Secondary room 1- 87.96 SF
- Secondary room 2- 80 SF



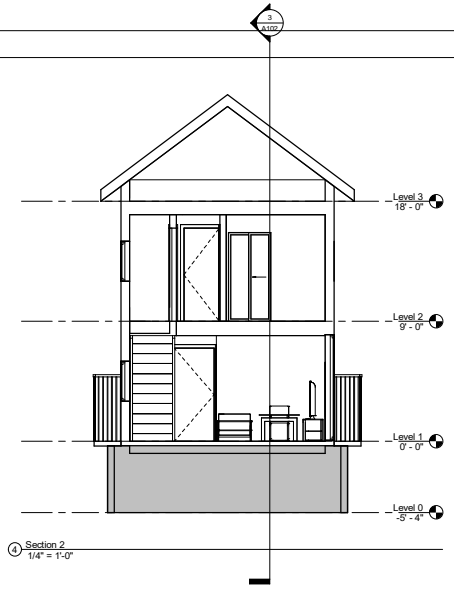
Level 1
1/4" = 1'-0"

First Floor: 34'x16'=544 SF

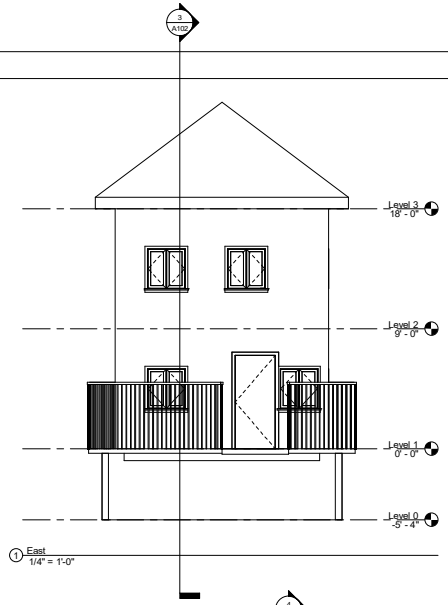
- Half Bathroom- 65.83 SF
- Office- 74.25 SF
- Livingroom- 74.25 SF
- Kitchen/Dining room- 146.72 SF

Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community Floor Plans	H1 Scale: 1/4" =1'0"

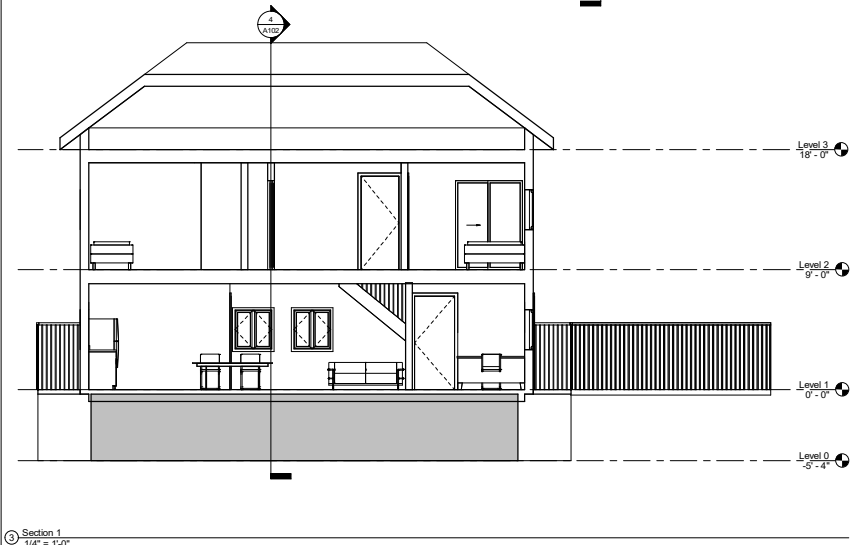
West to East Section



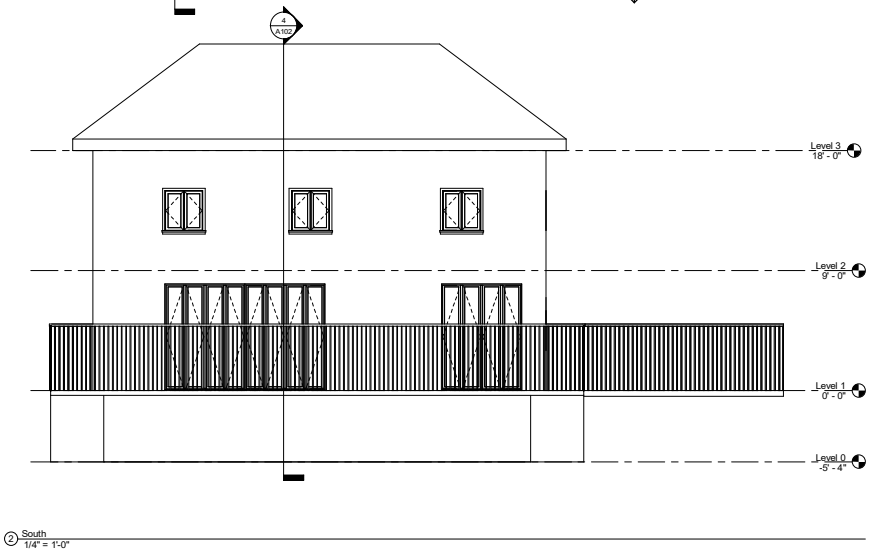
East Elevation



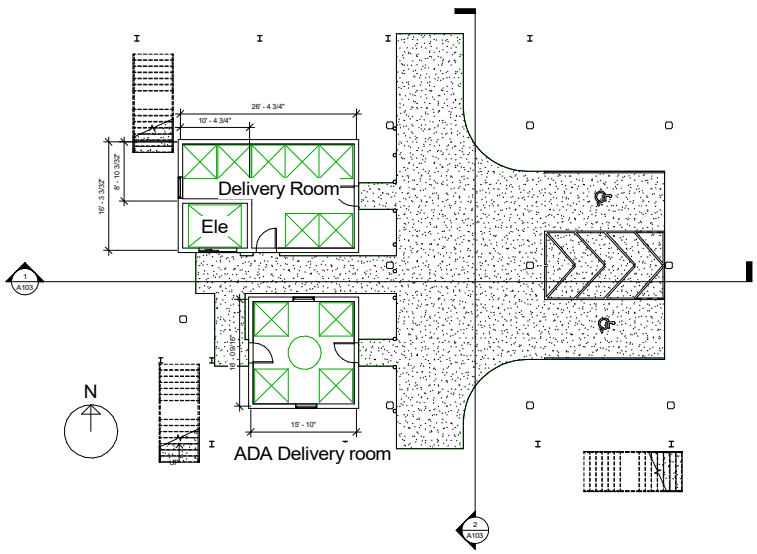
South to North Section



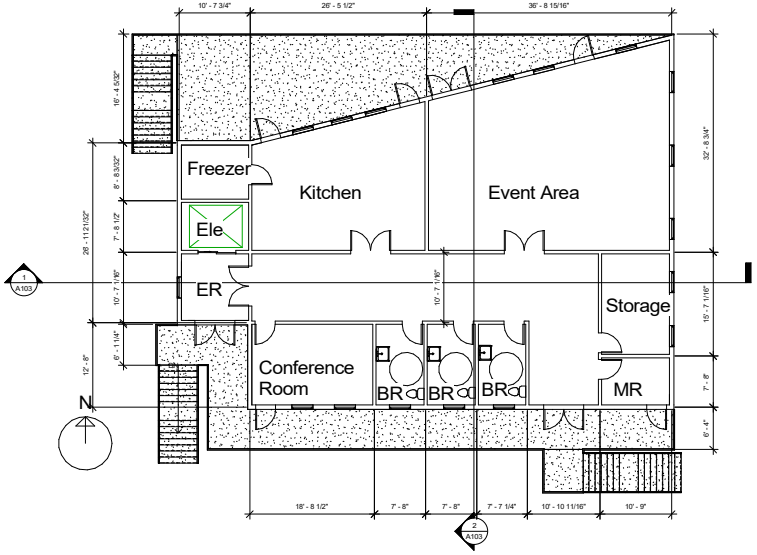
South Elevation



Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community Elevation and Section Plans	ES1 Scale: 1/4" =1'0"



1 Level 0
1/8" = 1'-0"



2 Level 1
1/8" = 1'-0"

Ground Floor: 681.14 SF

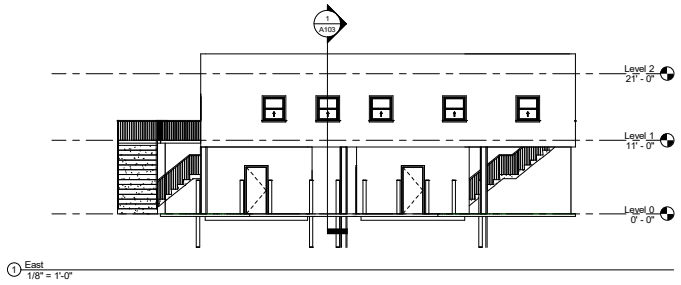
- Delivery Room- 351.21 SF
- ADA Delivery room- 253.28 SF

First Floor: 3,310.57 SF

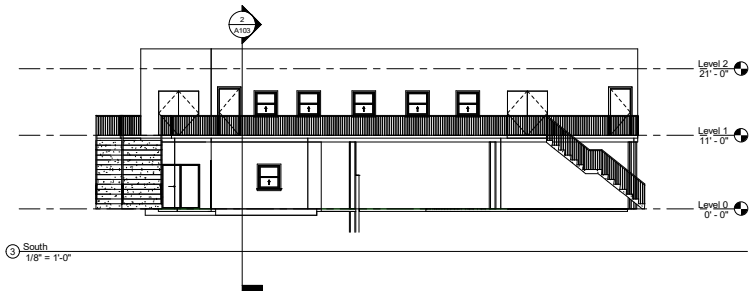
- Entry room-112.89 SF
- Freezer-92.51 SF
- Kitchen-494 SF
- Event Area-990.1 SF
- Conference Room-236.55 SF
- Bathrooms-97.18 SF
- Maintenance room-82.45 SF
- Storage room-167.49 SF

Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community Floor Plans	CH1 Scale: 1/8" =1'0"

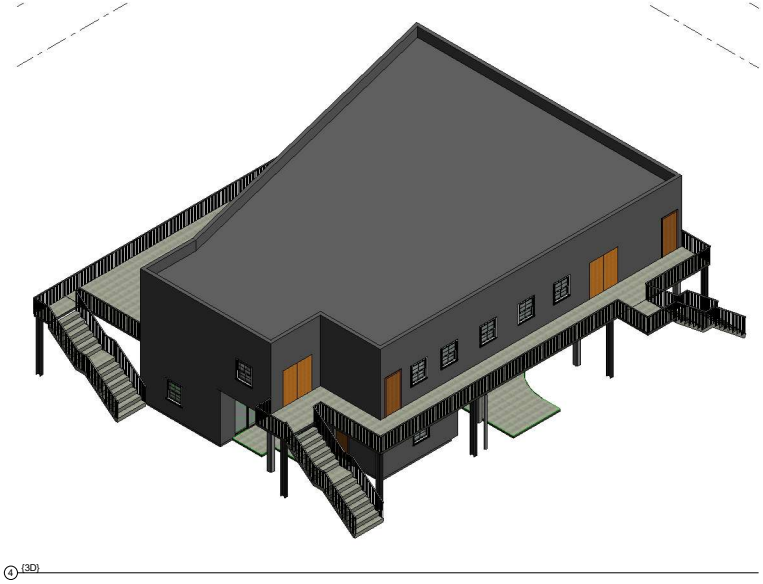
East Elevation



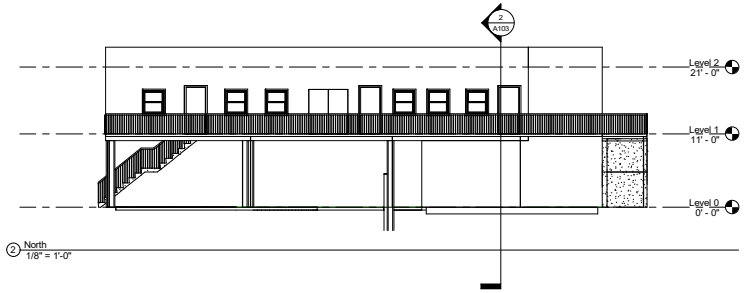
South Elevation



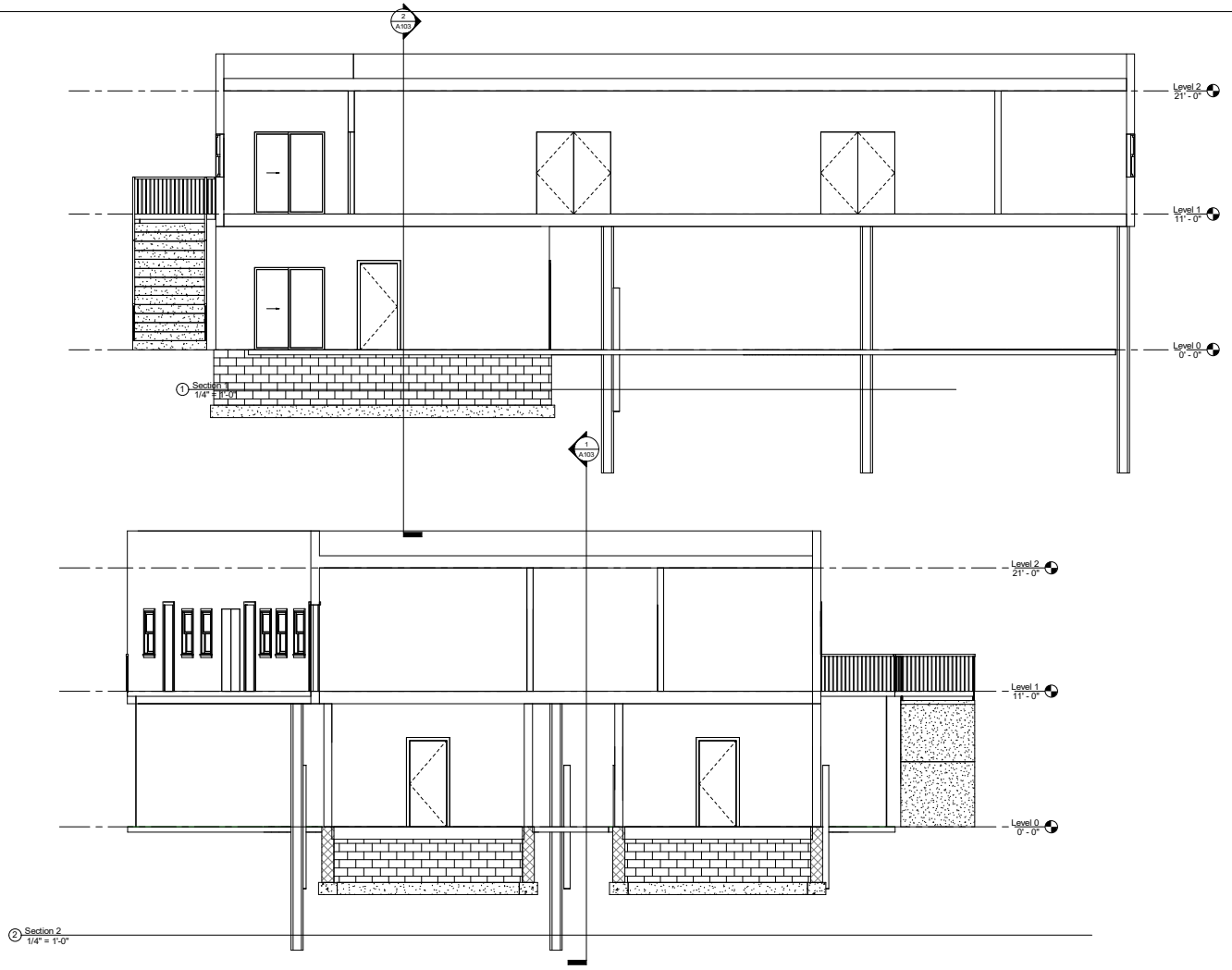
3D Southwest Elevation



North Elevation



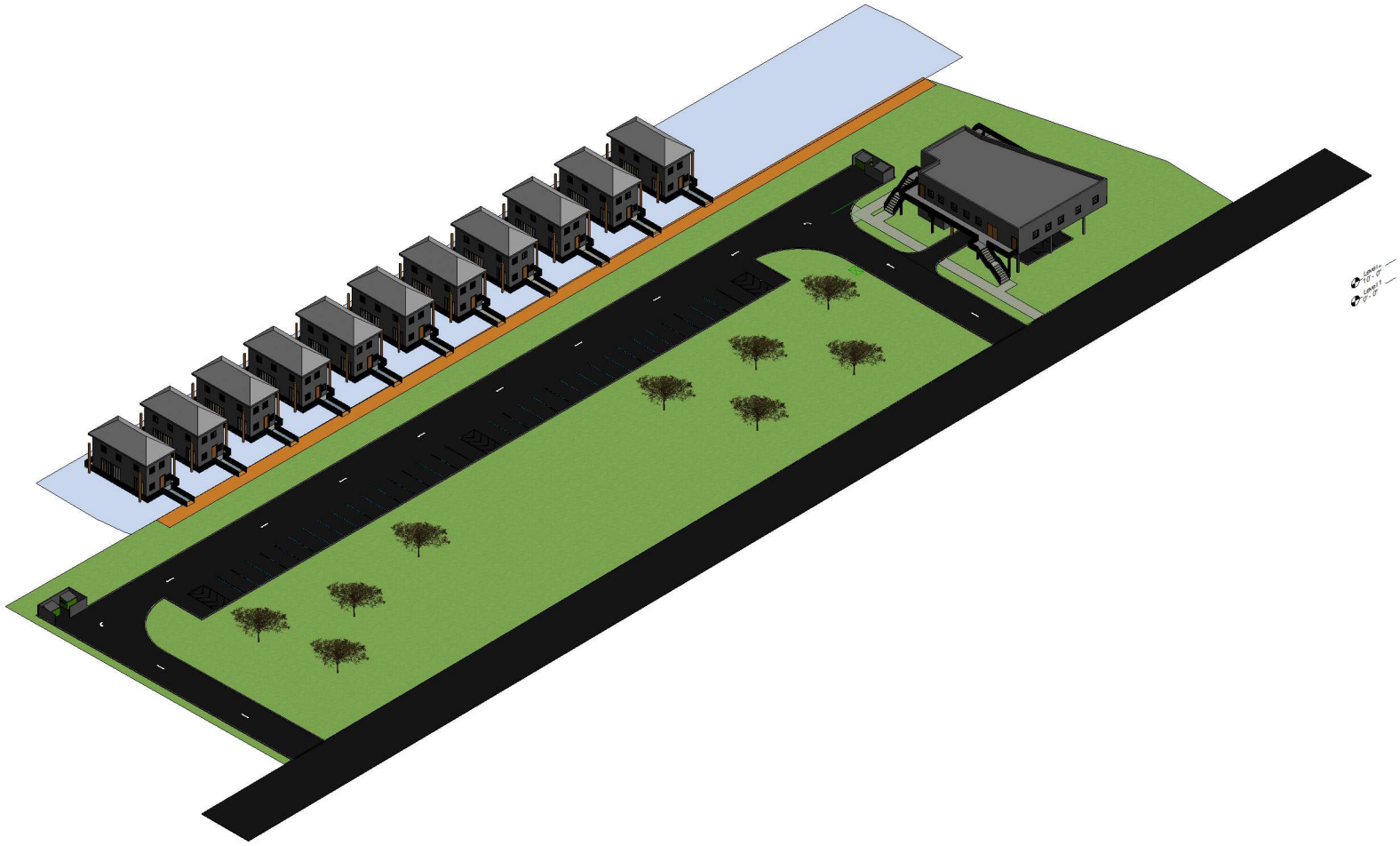
Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community Elevation Plans	E2 Scale: 1/8" =1'0"



South to North Section

West to East Section

Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community Section Plans	S2 Scale: 1/4" =1'0"



1 {3D}

Farmingdale State College State University of New York	ARC 376 Architectural Design 3 Spring 2022 - 21022		BY William Cortez	Project 3: Resilient house with community 3D site	S2 Scale: 3/64" =1'0"