
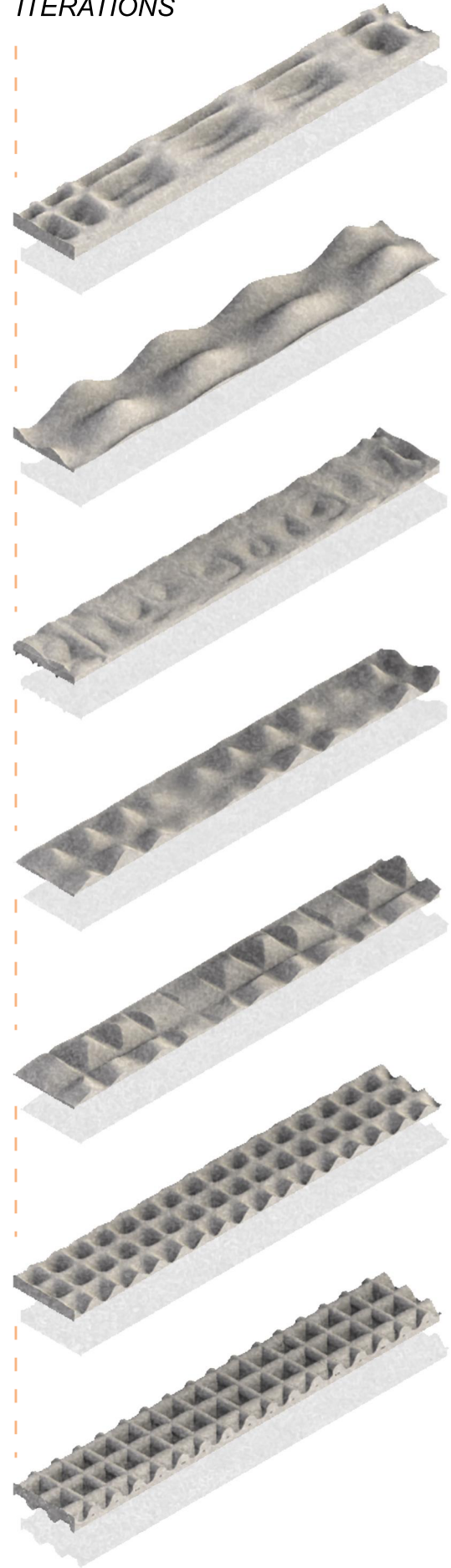


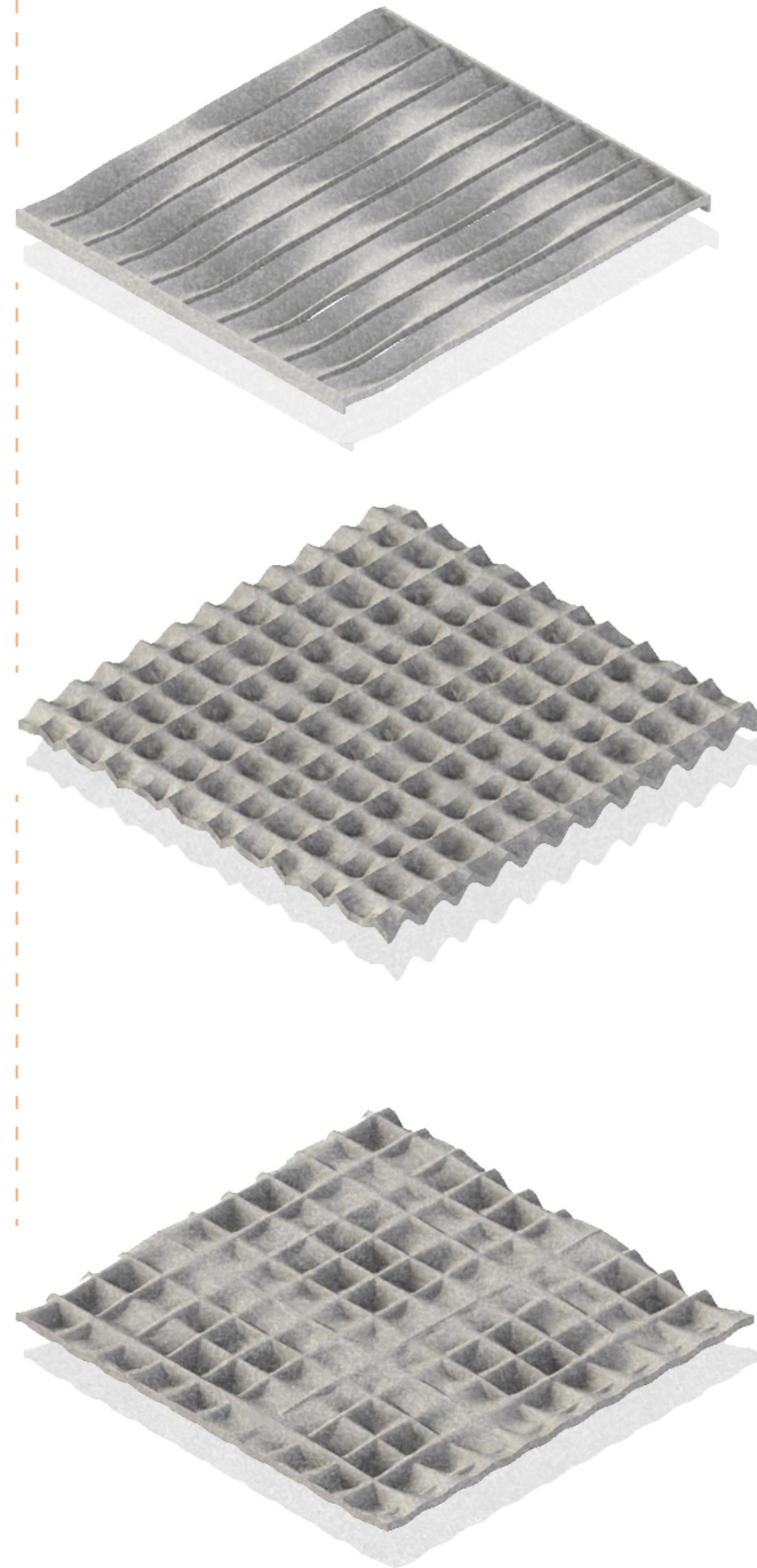
1 WALL SECTION
A10 3/8" = 1'-0"

A10	PAGE NUMBER	WALL SECTION	PAGE NAME	001	PROJ. NO.	Starkville, MS 39759 301 East Main Street Downtown Starkville Parking Garage	 MISSISSIPPI STATE UNIVERSITY OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT	Alexis Gregory Hans Herrman Ryan Ashford Briar Jones Mohsen Garshasby	PROFESSORS	Emerson Shinn, Cody Sanford	Ruthie Southall, Will Russell	BCS:	TEAM MEMBERS	ARC:	ARC 3546-BCS 3126	MISSISSIPPI STATE UNIVERSITY
-----	-------------	--------------	-----------	-----	-----------	---	---	---	------------	-----------------------------	-------------------------------	------	--------------	------	-------------------	---------------------------------

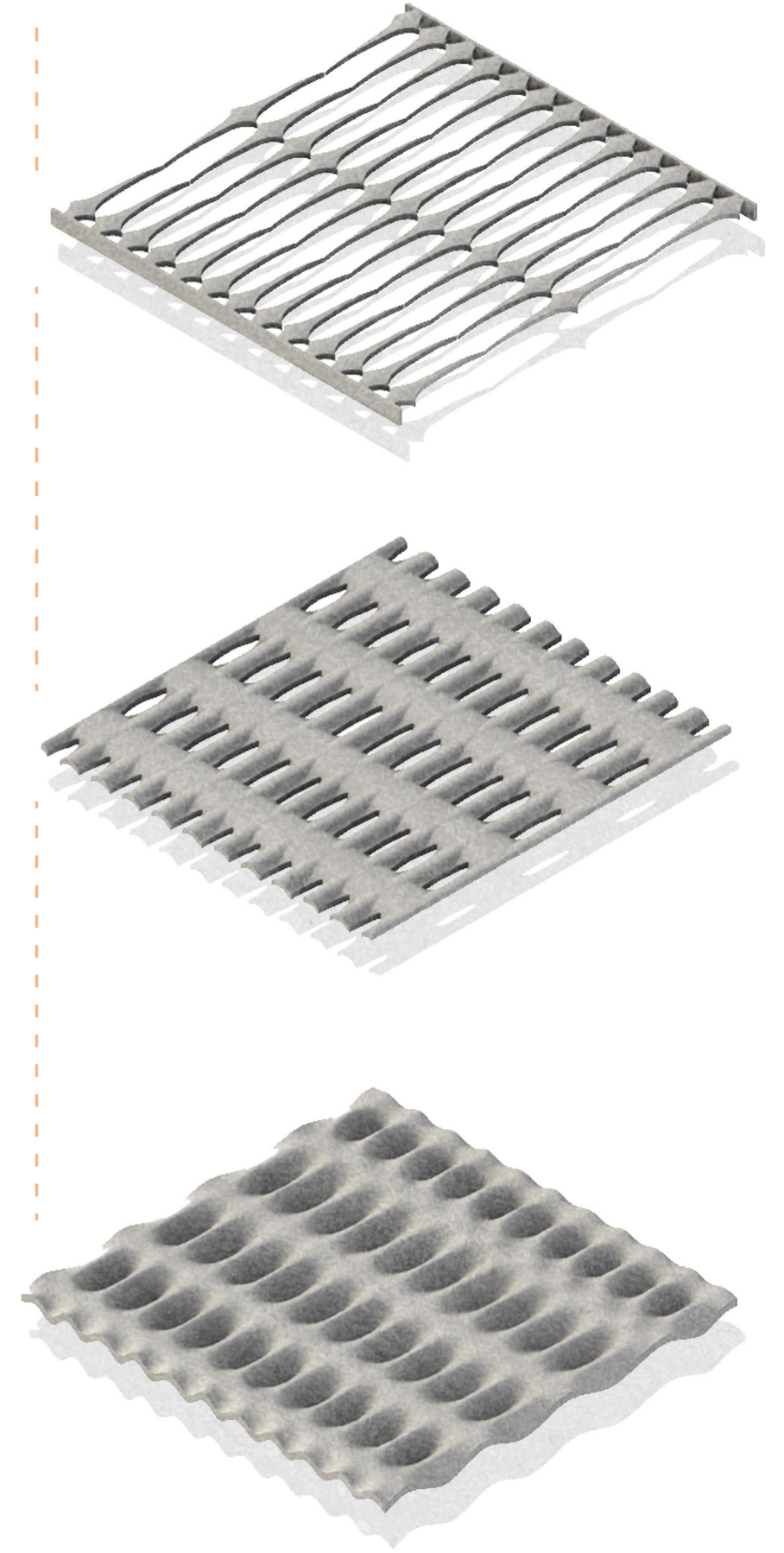
SOFFIT
PANEL
ITERATIONS

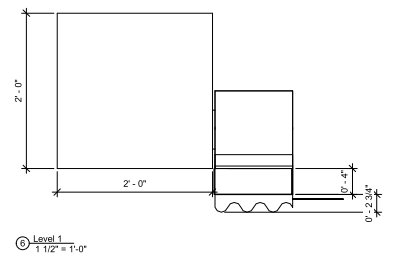
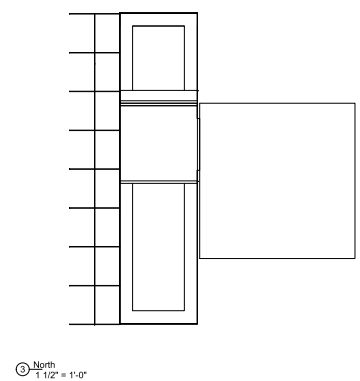
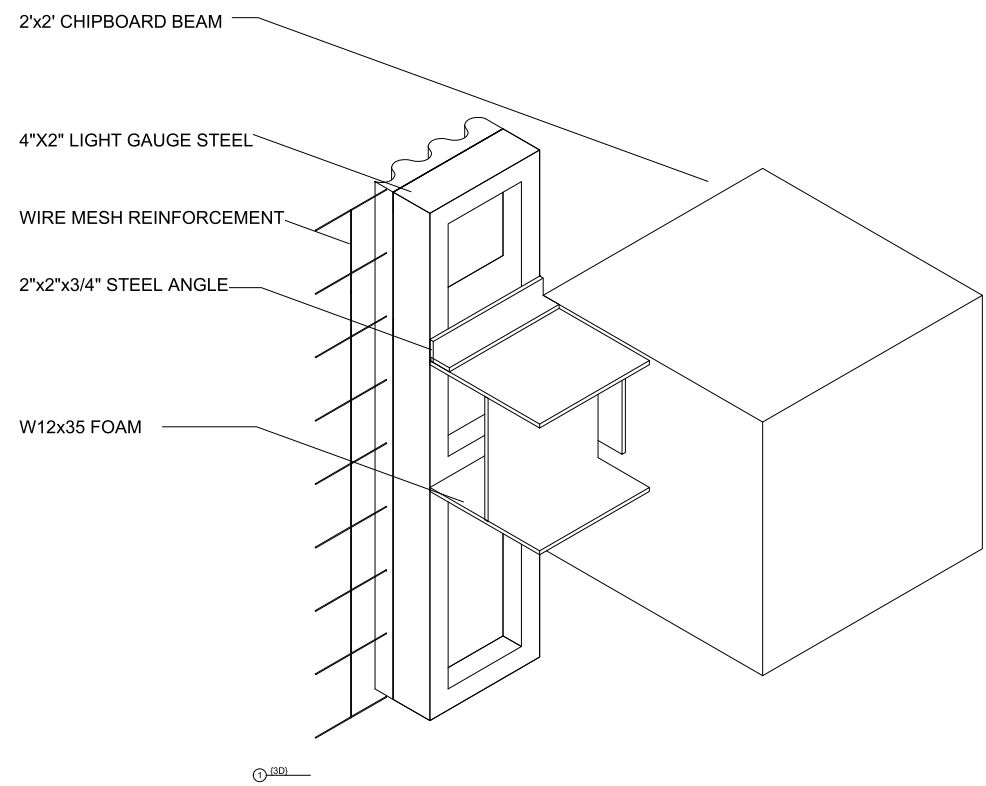
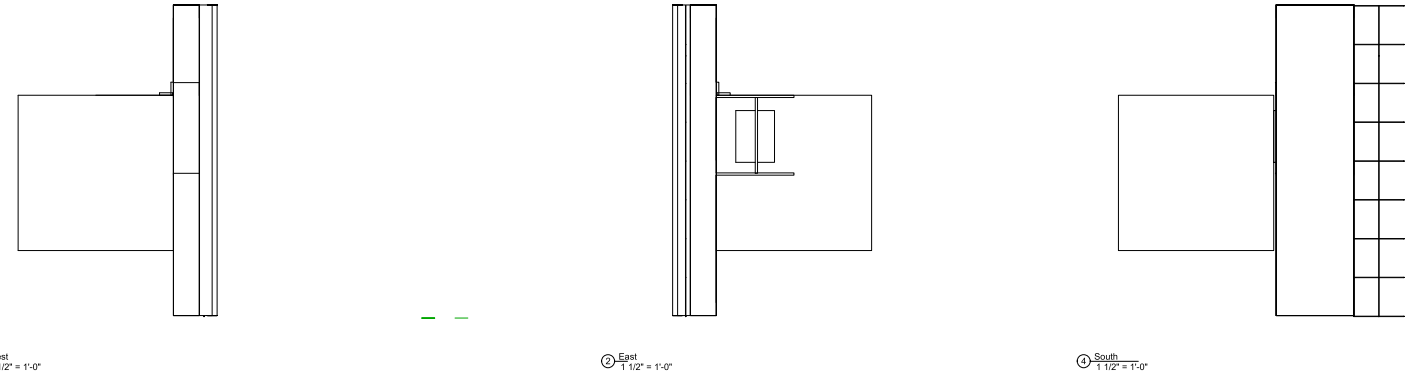


FACADE
PANEL
ITERATIONS



FACADE
PANEL
ITERATIONS





MISSISSIPPI STATE
UNIVERSITY

ARC 3546-BCS 3126

TEAM MEMBERS

Ruthie Southall, Will Russell

Emerson Shinn, Cody Sanford
ARC.

BCS PROFESSORS

Alexis Gregory
Hans Herrman
Ryan Ashford
Briar Jones
Mohsen Garshasby



Downtown Starkville Parking
Garage

301 East Main Street
Starkville, MS 39759

PROJ. NO.

001

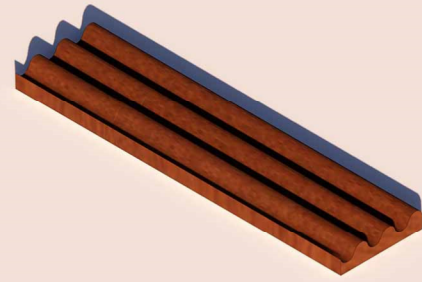
PAGE NAME

PANEL MOCK UP
SHOP DETAIL

PAGE NUMBER

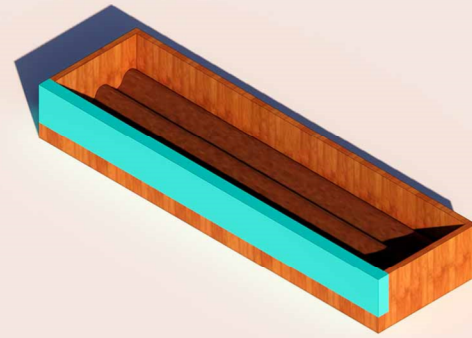
A11

1.



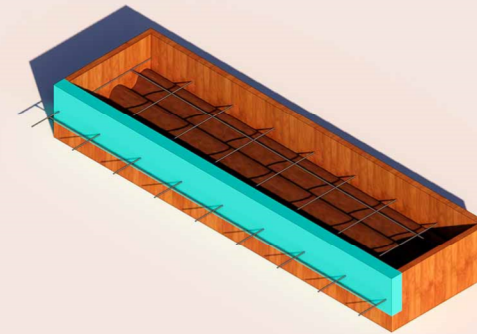
FIRST WE WILL LAMINATE A 1'X4' BLOCK OF MDF BOARD TO BE CNC ROUTED. THIS WILL SERVE AS THE 'WAVES' ON THE PRIMARY FACE OF OUR SLENDERWALL PANEL. THE MDF BLOCK WILL BE 2 3/4" THICK TO ALLOW FOR A CONSISTENT MINIMUM 2" THICKNESS THROUGHOUT THE PANEL.

2.



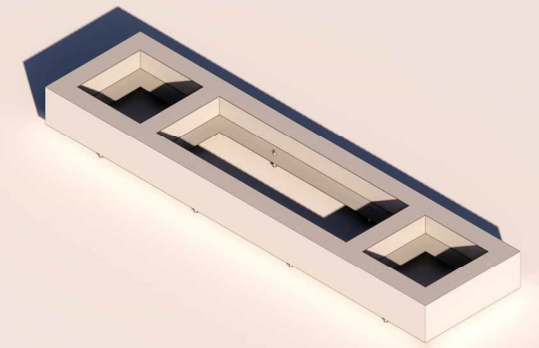
THE NEXT STEP IS TO BUILD THE FORMWORK. THREE SIDE OF THE FORMWORK WILL BE COMPOSED OF MDF BOARD WHILE THE FOURTH SIDE WILL BE A FOAM INSULATION BOARD. THIS WILL ALLOW US TO HAVE THE WIRE MESH REINFORCING PERTRUDE FROM THE CONCRETE WHILE STILL MAINTAINING A SHARP EDGE.

3.



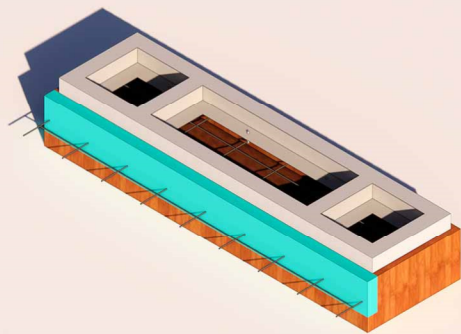
ONCE THE FORMWORK IS BUILT, WE CAN THEN CUT THE REINFORCING TO THE RIGHT DIMENSIONS AND LAY IT ON TOP. WE WILL MARK THE INTERSECTION OF THE WIRE MESH AND MAKE PRECISE CUTS IN THE FOAM BOARD TO ALLOW THE REINFORCING TO SLIP INTO PLACE. GLUE OR TAPE MAY BE NEEDED TO SEAL THE GAPS SO THEY CONCRETE IS RETAINED.

4.



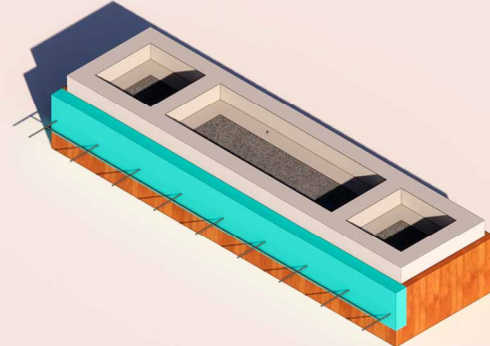
SIMULTANEOUSLY DURING STEP 3, THE LIGHT GAUGE STEEL FRAME WILL BE ASSEMBLED. THIS FRAME REPRESENTS THE ACTUAL FRAME USED ON THE PANELS. THIS WILL BE A 1'X4' FRAME WITH TWO CROSS MEMBERS FOR MOUNTING LATER. AT THIS TIME, THE STAINLESS STEEL FASTENERS WILL ALSO BE SCREWED INTO THE FRAME.

5.



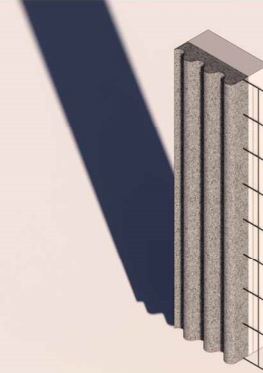
ONCE BOTH PARTS OF THE PROCESS ARE COMPLETE, THE STEEL FRAME WILL BE LOWERED INTO THE FORMWORK AND THE STAINLESS STEEL FASTENERS WILL BE WELDED TO THE WIRE MESH REINFORCING. THIS IS WHAT WILL HOLD THE CONCRETE TO OUR FRAME WHEN IT IS TIME TO MOUNT THE PANEL.

6.

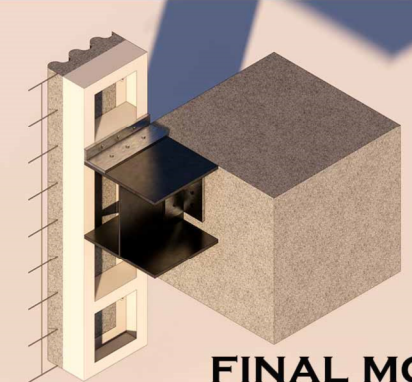


WHEN THE PANEL IS SET, IT WILL BE TIME TO POUR OUR CONCRETE MIX. THIS WILL A SIMPLE PROCESS OF MIXING THE CONCRETE AND SLOWLY POURING AND VIBRATING THE FORMWORK TO ENSURE THAT WE PRODUCE A STRONG AND PROPER MIX. WE WILL USE FIBERGLASS REINFORCEMENT IN THE MIX TO GIVE THE PANEL SOME EXTRA STRENGTH AFTER CURING.

7.



THE FINAL STEP OF THE PROCESS IS TO REMOVE ALL OF THE FORMWORK FROM THE PANEL. THE MDF BOARD CAN BE UNSCREWED AND KNOCKED LOOSE WHILE THE FOAM INSULATION BOARD WILL HAVE TO BE TORN AND CLEANED UP ON THE EDGE. THIS EXTRA STEP ALLOWS US TO SHOW THE PERTRUDING WIRE MESH REINFORCING TO FURTHER CLARIFY THE STRUCTURE OF THE PANEL.



FINAL MOCK-UP

AFTER THE PANEL IS COMPLETE, WE WILL BUILD THE REST OF THE MOCK-UP USING LIGHTER MATERIALS LIKE FOAMCORE AND CHIPBOARD TO REPRESENT THE HEAVIER STRUCTURAL MEMBERS OF THE SYSTEM LIKE THE WIDE FLANGE AND CONCRETE BEAMS. THIS FINAL ASSEMBLY WILL COMPLETE OUR MOCK-UP CONSTRUCTION.