Children's TherAplay

JENNA EFFINGER FALL 2020

INVESTIGATION PHASE

REVIEW MATERIAL

SENSORY TABLES

A PREVIOUS CLASS
DESIGNED SENSORY TABLES
TO BE USED IN THE SPACE.
THESE TABLES HELP THE
CHILDREN WITH DIFFERENT
MOTOR SKILLS, CALMING
NOISES, HELP WITH
EVERYDAY TASKS, AND PLAY
WITH DIFFERENT TEXTURES.

THERAPIST ENTRANCE: SOUTH SIDE OF BUILDING WITH LARGE STORAGE. BARN DOORS

RECEPTION/ PATIENT AREA: COLORFUL SPACE WITH GREEN BLUE AND PURPLE. RUSTIC WOOD THEME THROUGHOUT

DONOR WALL

GRADUATION TREE

PARTY AREA

STAFF BREAK ROOM

GYM



CASE STUDIES

ROMEOVILLE
HOME TO
SENSORY
ROOM FOR
SPECIAL
NEEDS
COMMUNITY

SNOEZELEN ROOMS ARE DESIGNED TO REDUCE ANXIETY AND ENGAGE THE SENSES THROUGH THE USE OF light, sounds, and touch. THE ROOM IS FLUSH WITH colored light, butling bubbles, and raised surfaces that encourage touch. . People with AUTISM WILL GREATLY BENEFIT FROM THE SURPLUS OF SENSORY INPUT IN THE ROOM. INDIVIDUALS WHO MAY NOT BE VERBAL MIGHT LOOK AT THE BUBBLE TUBE AND, WHEN IT CHANGES COLORS, THEY MIGHT SAY "WHITE" OR "PINK". THAT MAY TURN OUT TO BE ONE OF THE FEW WORDS THEY'RE SAYING AT THE MOMENT. THERE IS A PROJECTED IMAGE ON THE FLOOR THAT CHANGES AS YOU INTERACT WITH IT. "FINE MOTOR MOVEMENTS ARE PRACTICED WITH THE TOUCH SCREEN OR GRABBING THE WALL WHEELS AND SPINNING THEM." THE ROOM ALSO promotes choice. "A LOT OF TIMES PEOPLE WITH SPECIAL NEEDS ARE GIVEN SCHEDULES," SAID KORDAS. "THEY HAVE TO GO TO SCHOOL, THEY HAVE TO GO TO THERAPY, THEIR PARENTS MAYBE MAKE DECISIONS FOR THEM. BUT WHEN THEY'RE IN HERE, THE WHOLE POINT IS THEY CAN CHOOSE WHAT TYPES OF EQUIPMENT THEY WANT TO INTERACT WITH." IF SOMEONE IS SENSITIVE TO SOUND, THE SPEAKERS CAN BE MUTED OR COMPLETELY TURNED OFF. Everything in the room doesn't have to be used at the same time.

The Effects of Sensory Design on Autistic Children

SENSES

THE SENSORY DESIGN IS DESIGN
FOR LIVING WHICH HOW SPACE
FEELS, SOUNDS, LOOKS, SMELLS,
AND FUNCTIONS CAN BE INCREDIBLY
AFFECTING ONE OR MORE OF THE
SEVEN SENSES WHICH CAN HAVE AN
OVERWHELMING EFFECT ON THEIR
LIFE. THEIR SENSES CAN BE EITHER
OVER-DEVELOPED (HYPERSENSITIVE)
OR UNDER-DEVELOPED
(HYPOSENSITIVE) WHICH CAN RESULT
IN FEELINGS OF ANXIETY, PHYSICAL
PAIN, STRESS & OCCASIONALLY.

RESEARCH

Flickering light, reflection, glare FROM DIRECT SUNLIGHT AND /hadow pattern, of INTERIOR SHOULD BE avoided IN SPACES DESIGNED FOR AUTISTIC CHILDREN BECAUSE IT CAUSES dirter, and anxiety.

To avoid this problem Allocation of window, at both low and high level, along with high-quality lighting.

Complex layouts. long corridors and frequent changes of level should be avoided because it will cause disorientation and cause stress and anxiety.

TO PROVIDE A QUIET ENVIRONMENT /OUND/COOFING
SUCH AS ACOUSTIC CEILING AND A CLEANABLE
CARPET SHOULD BE USED TO avoid noi/y /pace/.
LOUD SPACES USUALLY CAUSE THE REPETITIVE
BEHAVIOR DUE TO THEIR CHRONICALLY HIGH LEVEL
OF STIMULATION.

DISTURBING AND overly Mimulating color cause differs and anxiety. Neutral, calming colors and the use of natural materials should be used.

RESEARCH





Design for Special Education

SPECIALIZED EQUIPMENT AND FURNITURE SUCH AS FOAM WEDGES THERAPY BALLS, WALKERS, AND SWINGS HELP STAFF AND STUDENTS TO CUSTOMIZE USE TO PARTICULAR NEEDS. THESE OPTIONS ARE IMPORTANT TO ACCOMMODATE A WIDE RANGE OF LEARNING ACTIVITIES BUT REQUIRE ADDITIONAL SPACE AND PLACEMENT CONSIDERATION. OVERHEAD ELECTRICAL OUTLETS ENHANCE VERSATILITY FUNCTIONALITY AND EMERGENCY PREPAREDNESS BY ALLOWING EQUIPMENT AND ROOMS TO BE MOVABLE.

CLASSROOM DESKS AND CHAIRS SHOULD HAVE CUSHIONED FEET TO REDUCE SOUND, AND BE TOO HEAVY FOR STUDENTS TO PICK UP OR MOVE EASILY. WEIGHTED PRODUCTS THAT ATTACH TO CHAIR AND TABLES PROVIDE AN ALTERNATIVE TO HEAVY FURNITURE. SOME STUDENTS BENEFIT FROM CARRELS ENCLOSED ON THREE SIDES TO REDUCE DISTRACTION, BUT A PORTABLE PRIVACY SCREEN CAN SERVE THE SAME PURPOSE.

SENSORY ROOMS INVOLVE A WIDE ARRAY

OF ITEMS, INCLUDING ACTIVE SEATING TO

ACCOMMODATE MOVEMENT SOFT SEATING SUCH

AS FOAM OR BEANBAG CHAIRS TACTILE TEXTURED

SURFACES AND LIGHTED ELEMENTS.

RESEARCH

Sensory
Processing
in Autism:
A Review of
Neurophysiologic Findings

ATYPICAL SENSORY-BASED BEHAVIORS ARE A UBIQUITOUS FEATURE OF AUTISM SPECTRUM DISORDERS (ASD). AUTISM SPECTRUM DISORDERS (ASD) ARE DEFINED CLINICALLY BY IMPAIRMENT IN COMMUNICATION, SOCIAL INTERACTION, AND BEHAVIORAL FLEXIBILITY. COMMON CLINICAL COMPLAINTS ARE AVOIDING LIGHT TOUCH TO THE HEAD AND BODY AS OCCUR WITH GROOMING AND PARTICULAR CLOTHING. THE PSYCHOPHYSICAL TACTILE STUDIES LOOK AT THRESHOLDS AND SENSITIVITY USING VIBROTACTILE STIMULI. INDIVIDUALS WITH ASD ALSO EXHIBIT ATYPICAL VISUAL BEHAVIOR THAT CAN BE CONSTRUED AS ATTEMPTING TO AVOID VISUAL INPUT (E.G. COVERING EYES AT BRIGHT LIGHTS) OR TO SEEK ADDITIONAL VISUAL STIMULI (E.G. TWISTING FINGERS IN FRONT OF EYES).





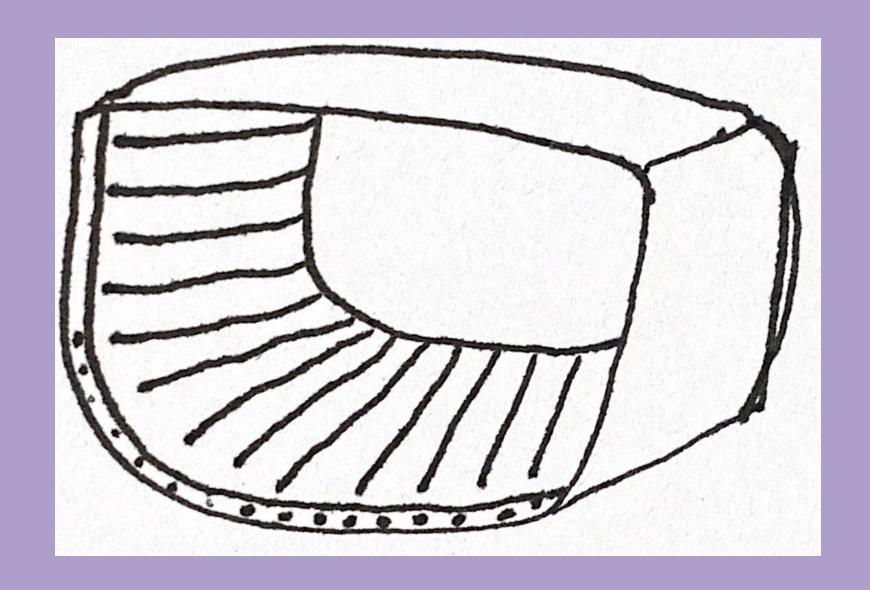


FURNITURE IDEAS

- •NATURAL MATERIALS
- •COMFORTING
- *INTERESTING SOUNDS BUT NOT TOO LOUD
- CALMING LIGHTING

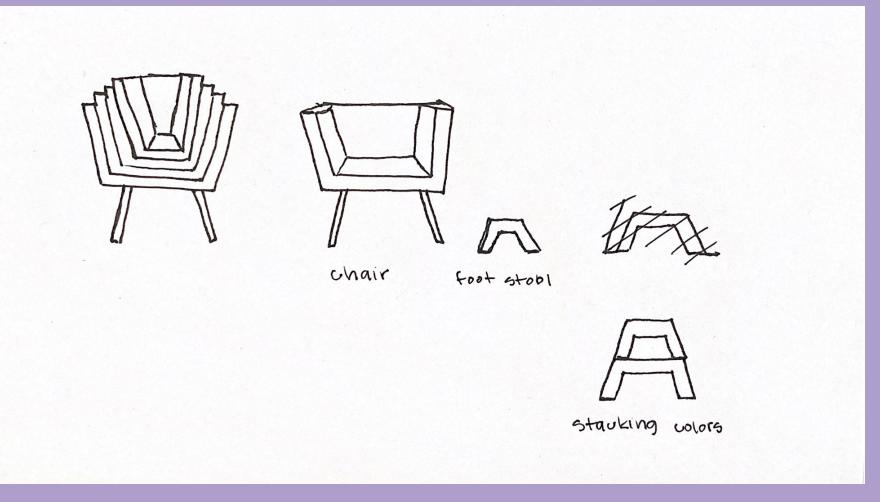
CONCEPT 1

- PADDING
- *NATURAL MATERIALS AND COLORS
- ROCK-ABLE
- *BEADS IN THE BOTTOM THAT ROLL AND MAKE NOISE WHEN CHAIR IS ROCKED



CONCEPT 2

- •STACKABLE
- •INTERACTIVE
- EACH PIECE A DIFFERENT COLOR
- *SMALLEST PIECE COULD BE USED AS FOOT STOOL OR STEP STOOL



MATERIALS

PINE WOOD

- ***CHEAPER THAN DAK**
- •PINE'S NATURAL COLOR PAIRS WELL WITH OTHER PIECES
- **EASY TO STAIN AND PAINT**
- *LIGHTER THAN OAK SO KIDS WILL BE ABLE TO PICK UP EASILY

COLOR

The Use of Color in Autism Spectrum Disorders

STUDIES HAVE REVEALED THAT 85% OF THE CHILDREN IN THIS SPECTRUM PERCEIVE COLORS more intensely in comparison to children displaying normal development. Duller colors with white and gray undertones have a calming effect on children in this spectrum. Pale pink has been nominated as the favorite color for children with autism in the tests conducted. Moreover, cool colors such as blue and green also have a calming and soothing effect. Primary and bright colors must only be limited to the toys in their rooms.

Seat Design Criteria

FOR CHILDREN 5-10

FOR CHILDREN 5-10 YEARS OLD

SEAT: 13 INCHES TALL
BACK: 31 INCHES TALL
SEAT DEPTH: 13 INCHES

DIMENSIONS

SEAT DESIGN CRITERIA

SEAT PAN CONTOURS - HALF BODY WEIGHT IS SUPPORTED BY AN 8% AREA UNDER THE "SEAT BONES" (ISCHIAL TUBEROSITIES). IF THE SEAT IS HARD AND FLAT THE PRESSURES CAN BE 85-100 p.s.i. SEAT CONTOURING AND CUSHIONING CAN BE USED TO DISTRIBUTE PRESSURE OVER A LARGER AREA AND ROTATE THE PELVIS FORWARD THE PROMOTE BETTER POSTURE.

Seat Angle - Positive SEAT ANGLE HELPS USER TO MAINTAIN GOOD CONTACT WITH BACKREST. FOR MOST PURPOSES A 5 - 10 angle is recommended.

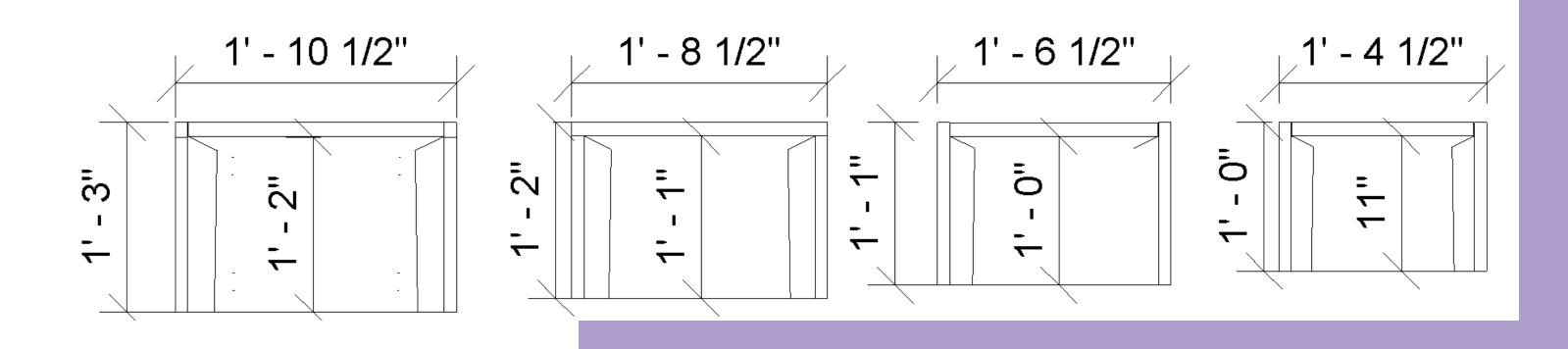
Children's TherAplay

SITE VISIT

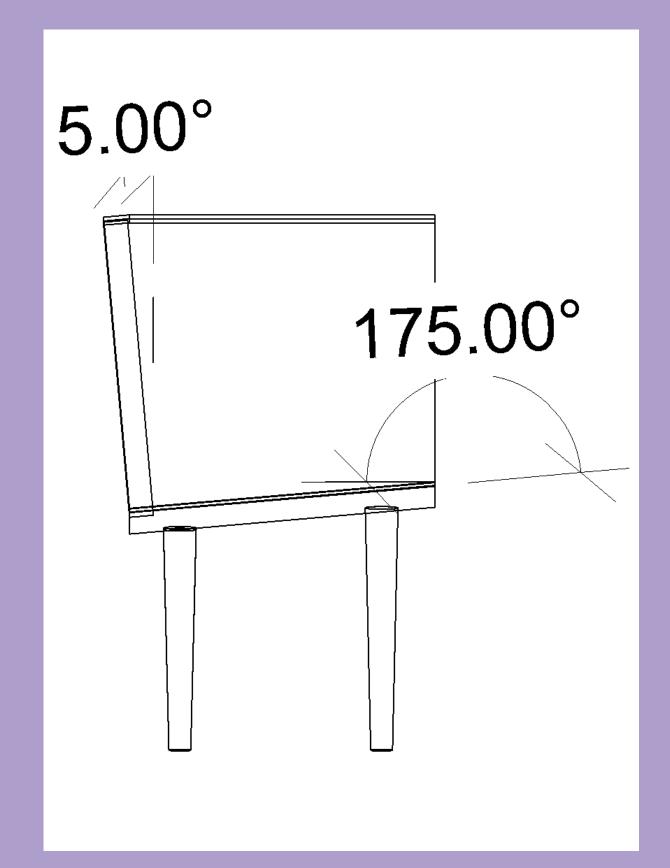
WHAT I TOOK AWAY THE MOST FROM MY **OBSERVATION WAS THE INTERACTION OF** THE CHILDREN, I GOT TO SEE HOW THE KIDS INTERACTED WITH ME WHILE THEY PASSED THROUGH THE VESTIBULE I WAS OBSERVING FROM. SOME OF THE KIDS IGNORED ME WHILE OTHERS WERE VERY FRIENDLY AND DUTGOING, MAKING SURE TO STOP AND SAY HELLO TO ME. I GOT TO SEE THE INTERACTION WITH THE CHILDREN AND THE THERAPISTS. THE CHILDREN THAT WERE PRESENT DURING MY OBSERVATION NEEDED TO BE TOLD A FEW TIMES BEFORE MOVING ON TO THE NEXT TASK, THEY EASILY GOT DISTRACTED. THE CHILD THAT I DBSERVED RIDING THE HORSE SEEMS TO LOVE IT. SHE WAS MUCH MORE DUTGOING WHILE ON THE HORSE, ENGAGING IN CONVERSATION WITH THE THERAPIST.

Design Development

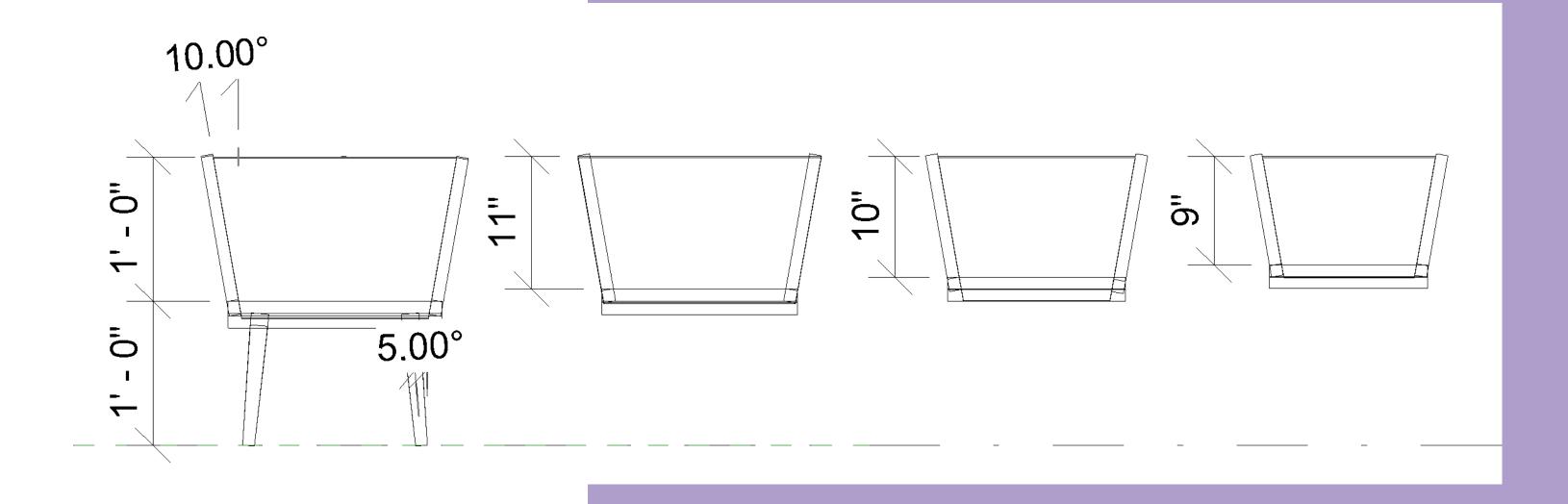
PLAN VIEW



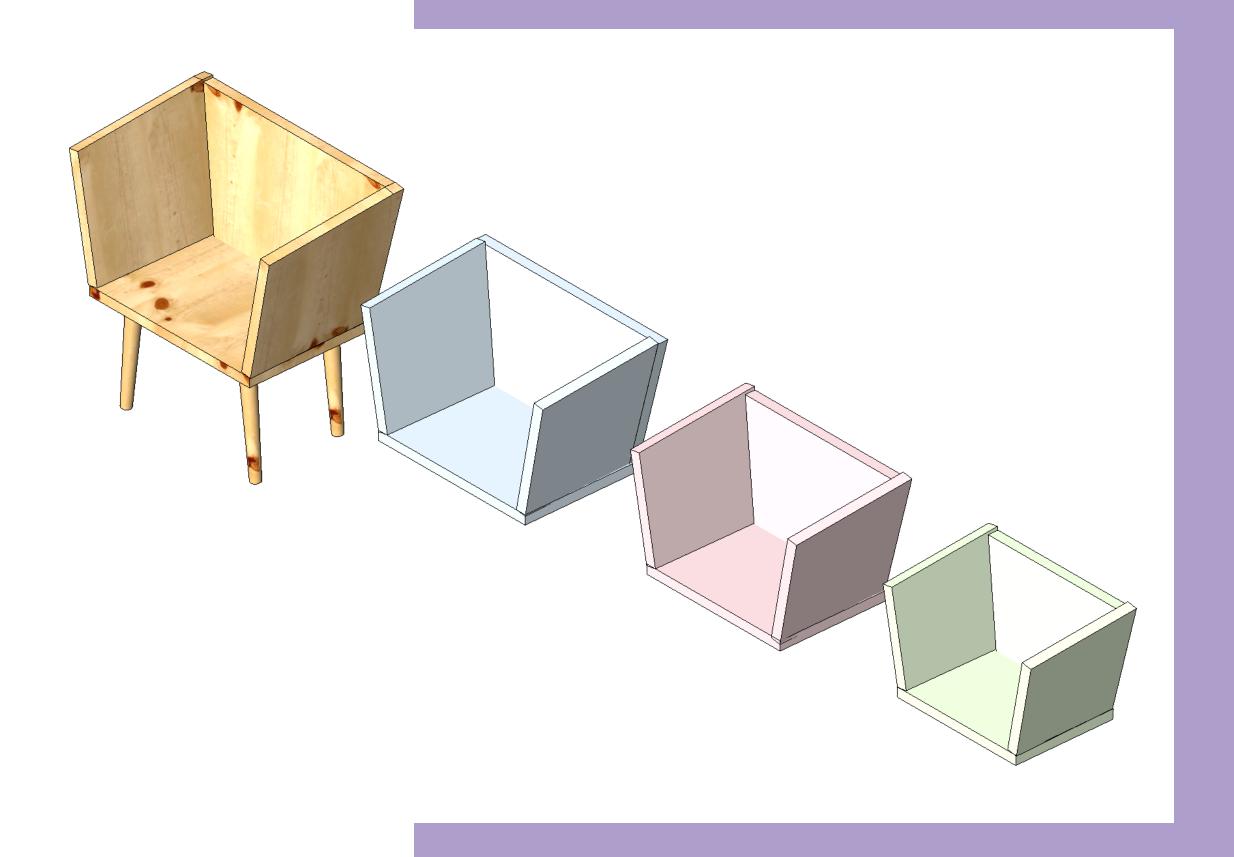
SIDE VIEW



ELEVATION VIEW



ISOMETRIC VIEW

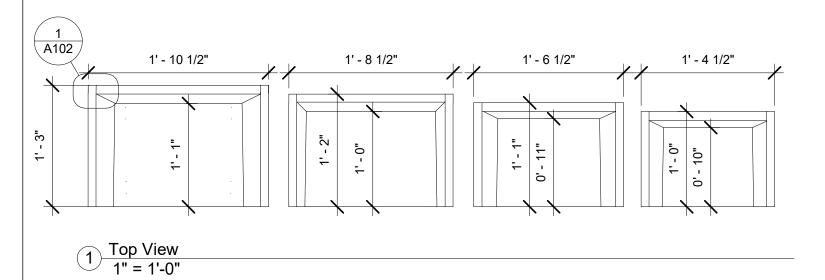


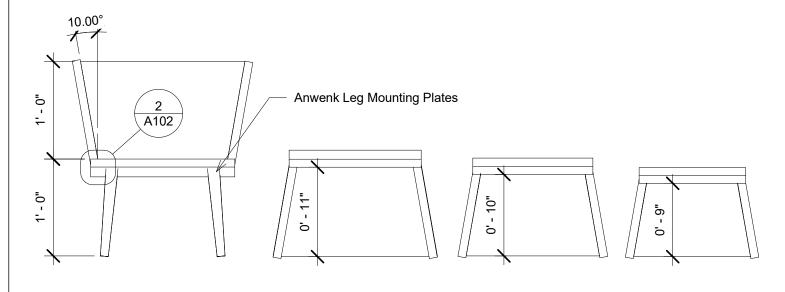
PERSPECTIVE



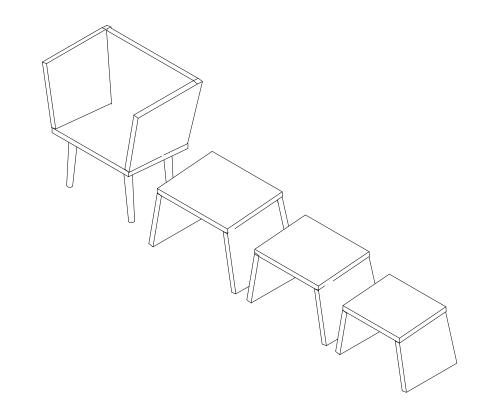


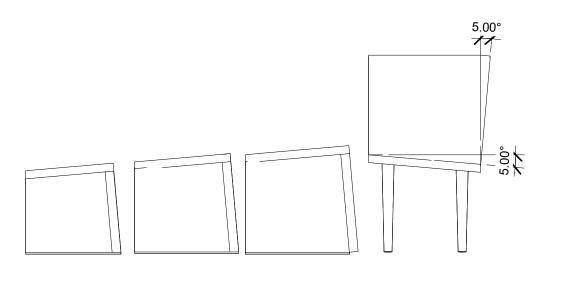
Construction Documents





2 Front View 1" = 1'-0"



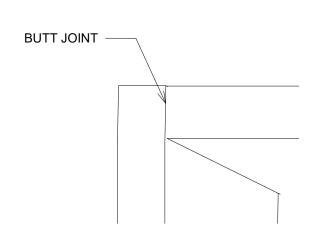


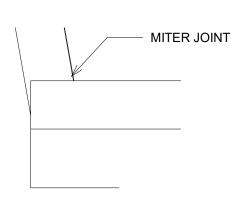
3 Side View 1" = 1'-0"

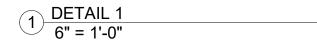
Children's T	herAplay
Jenna Effing	ger

No.	Description	Date

WS		
Project Number		
Issue Date	1 A101	
Author		
Checker	Scale 1" = 1'-0"	
	Project Number Issue Date Author	Project Number Issue Date Author









FINISH SCHEDULE:

TAG: PT-1

MFG: SHERWIN WILLIAMS **COLOR: GREEN VIBES**

NMBR: SW 6928

TAG: PT-2

MFG: SHERWIN WILLIAMS

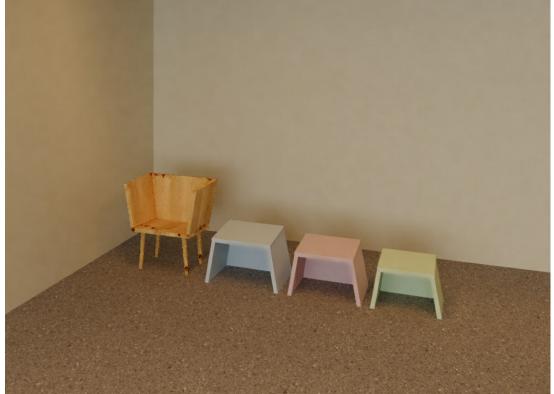
COLOR: ROSEBUD NMBR: SW 6288

TAG: PT-3

MFG: SHERWIN WILLIAMS COLOR: RHYTHMIC BLUE

NMBR: SW 6806

TAG: WD-1 MTRL: PINE



Children's TherAplay Jenna Effinger

No.	Description	Date

Details		
Project number	Project Number	
Date	Issue Date	A102
Drawn by	Author	_ / \
Checked by	Checker	Scale 6" = 1'-0"