“VOTING BOOTH STORAGE CASES”

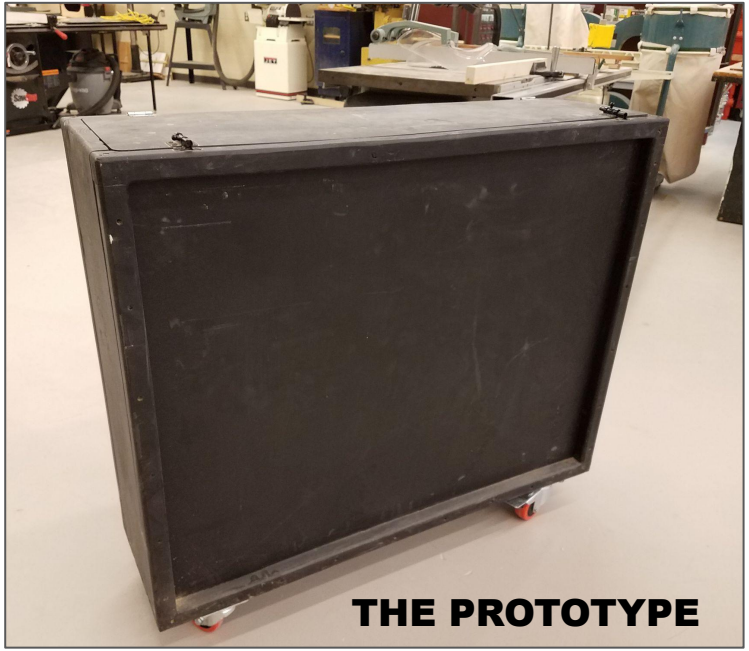
SEPTEMBER

PHS-CTE *WOODWORKING 101*

FALL 2022

PROJECT REQUEST

- ❑ CONSTRUCT 35 CASES TO STORE AND DISTRIBUTE VOTING BOOTHS TO VOTING LOCATIONS FOR THE CITY OF PORTSMOUTH.
- ❑ A PROTOTYPE OF THE STORAGE CASES WAS SUPPLIED BY THE CITY
- ❑ PRIOR TO CONSTRUCTION THE STUDENTS PARTICIPATED IN A PROJECT COSTING ACTIVITY AND DEVELOPED A PLAN OF PROCEDURE FOR THE MANUFACTURE OF THE STORAGE CASES



THE PROTOTYPE

OUR PLAN OF PROCEDURE

VOTING BOOTH CASES Construction — *PLAN OF PROCEDURE*

FRAME PARTS

(A1) SIDES 1 ½" X 1 ½" X 30 ½" QNT. 150	MACHINE	WORKERS	
ROUGH CROSSCUT 2X4's TO 36" (75 pieces)	Miter Saw 1	2 sawer/helper	
RIP IN HALF 1 ¼"	Tablesaw 1	2 sawer/helper	1 traveler
JOINT SAWED EDGE	Jointer 1	1	
RIP TO FINISHED SIZE 1 ½"	Tablesaw 1	2 sawer/helper	
RABBET EDGE ¼" X ¾" (sawed edge)	Tablesaw 2	2 sawer/helper	1 traveler
SQUARE & CROSSCUT TO FINISHED LENGTH 30 ½"	Miter Saw 1	2 sawer/helper	
MARK HOLE LOCATIONS	Template A	1	1 traveler
DRILL/COUNTERSINK HOLES	DrillPress 1,2,3	3	

(A2) TOP/BOTTOM 1 ½" X 1 ½" X 42" QNT. 150	MACHINE	WORKERS	
ROUGH CROSSCUT 48" (75 pieces)	Miter Saw 2	2 sawer/helper	1 traveler
RIP IN HALF 1 ½"	Tablesaw 2	3	
JOINT SAWED EDGE	Jointer 2	1	
RIP TO FINISHED SIZE 1 ½"	Tablesaw 1	2 sawer/helper	
SQUARE & CROSSCUT TO FINISHED LENGTH 42"	Miter Saw 2	2 sawer/helper	1 traveler
RABBET EDGE ¼" X ¾" (sawed edge)	Tablesaw 2	2 sawer/helper	
MARK HOLE LOCATIONS	Template B	1	1 traveler
DRILL/COUNTERSINK HOLES	DrillPress 1,2,3	3	

(A3) PLYWOOD PANELS ¼" X 31 ½" X 40" QNT. 70	MACHINE	WORKERS	
ROUGH CROSSCUT 4x8 SHEETS TO 32"	Panel Saw	2 sawer/helper	1 prepare/stacker
RIP TO FINISHED WIDTH 40"	Tablesaw 1	2 sawer/helper	
CROSSCUT TO FINISHED LENGTH 31 ½"	Tablesaw 1	2 sawer/helper	

(A4) ASSEMBLE FRAMES QNT. 70	MACHINE	WORKERS	
ASSEMBLE 2x FRAMES	Drills	4 - 2 teams	1 prepare/stacker
INSTALL PANELS	Nail Gun	2	

CARCASS PARTS

(B1) SIDES 2 X 10 X 33 ½" QNT. 75	MACHINE	WORKERS	
ROUGH CROSSCUT 36"	Miter Saw 1	2 sawer/helper	
SQUARE & CROSSCUT TO FINISHED LENGTH 33 ½"	Miter Saw 1	2 sawer/helper	1 traveler
RABBET TOP ¼" X ¾"	Table Saw 2	2 sawer/helper	
DRILL & COUNTERSINK HOLES	Drill Press	3	

(B2) BOTTOM 2 X 10 X 39" QNT. 75	MACHINE	WORKERS	
ROUGH CROSSCUT 42"	Miter Saw 1	2 sawer/helper	1 traveler
SQUARE & CROSSCUT TO FINISHED LENGTH 39"	Miter Saw 1	2 sawer/helper	

(C1) TOP 2 X 10 X 39" QNT. 75	MACHINE	WORKERS	
ROUGH CROSSCUT 42"	Miter Saw 1	2 sawer/helper	
SQUARE & CROSSCUT TO FINISHED LENGTH 39"	Miter Saw 1	2 sawer/helper	

ASSEMBLY

(D1) ASSEMBLE CASES QNT. 35	MACHINE	WORKERS	
ASSEMBLE 2X10 CARCASS	Hand Drills/Jig	1 team of 2	
ATTACH SIDE PANELS TO CARCASS	Hand Drills/Jig	3 teams of 2	
ROUTE TOP RABBET ¼" X ¾"	Router/Template	1 team of 2	
ROUTE ALL EDGES	Router	3 teams of 2	
SAND			

FINISHING AND FINAL ASSEMBLY

(E) ASSEMBLE CASES QNT. 35	MACHINE	WORKERS	
STAIN 2 COATS (black latex)		FULL CLASS	
INSTALL CASTERS	Hand Drills/Jig	3 teams of 2	
INSTALL HINGES	Hand Drills/Jig	3 team of 2	
INSTALL BARREL HASPS	Hand Drills/Jig	3 teams of 2	

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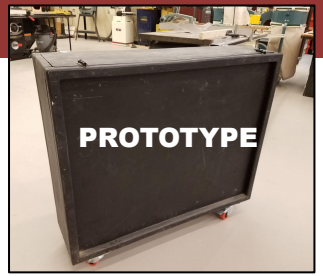
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WOODWORKING 101

“VOTING BOOTH STORAGE CASES”

PHS-CTE *WOODWORKING 101*

FALL 2022







NOVEMBER

CONSTRUCTION BEGINS

- ❏ **IN MID NOVEMBER MATERIALS WERE DELIVERED AND STUDENTS BEGAN MACHINING THE PARTS FOR THE STORAGE CASES.**



PART PRODUCTION VIDEO



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Career Technical Education

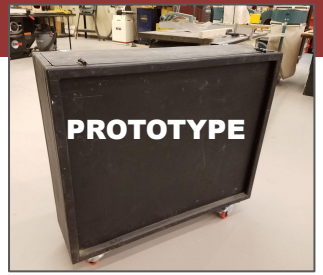
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DECEMBER

FRAME CONSTRUCTION

- ❑ **STUDENTS CONSTRUCTED JIGS TO ALIGN COMPONENTS IN THE ASSEMBLY OF THE FRAMES AND ATTACH THE PLYWOOD FOR THE 70 SIDE PANELS.**





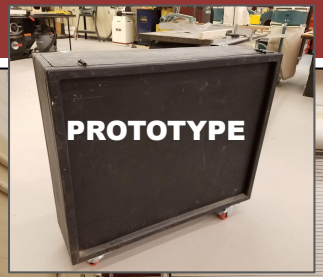
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FALL 2022



DECEMBER

CASE ASSEMBLY
ROUTING EDGES and
SANDING





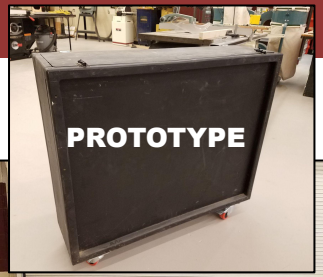
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DECEMBER - JANUARY

PAINTING and INSTALLING HARDWARE





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“VOTING BOOTH STORAGE CASES”

THE BUILD TEAMS

FALL 2022

BLOCK 1
WOODWORKING 101



BACK: Jackson Conway, Dakota Sargent, Yaseen Abdelsadek, Jacob Klanchesser, Jameson Finch. FRONT: Caleb Greene, Josh Ciotti, Ryan Clark, Kai Paterson, John Flynn. MISSING: Marissa Leonard

BLOCK 4
WOODWORKING 101



BACK: Max Shorter, Logan Chasse, Sylvan Hoschek-Court, Elizabeth Longtin, Asher Volovich. MIDDLE: Keiquan Luc, Jackson Barnes, Brandon Park, Yossef Abdelsadek. FRONT: Tim Becksted. MISSING: Chris Burovic