

Specification for the erection of the Soldiers Orphans Home, Cedar Falls, Iowa. Excavation To be of sufficient depth to secure a good foundation; and low enough to bring top of basement floor two feet below grade; and to be one foot below under side of joist to basement floor. Privy vault to be excavated 10 x 20 ft. and to be 16 ft. deep. Cistern to be excavated of sufficient size and depth to hold 200 Bbls. All dirt excavated to be moved not over ten rods, to level up grounds, as committee may direct. If necessary to haul the dirt further a special contract shall be made with committee. Size of Basement to be 90.6 x 46.4 Building Wing to be 42.6 x 36.3 Projection of Vestibule to be 8 ft x 30 ft. 6 in. Stone Wall Base course to be concrete; four feet & half wide by one foot thick, made of small stone, coarse gravel sand and water lime. Proportions of lime and sand to be 3 to 8 to be well mixed, put in and hammered down. Second course to be of large stone 372 ft. long, and as wide as can be had; laid edge to edge, ten inches thick.

Basement wall to be first class rubble work to be 2 1/2 ft. thick. Crosswalls, and foundation walls for joist to be two feet thick. Outside walls to be laid as high as top of joist on first floor. All walls below grade to be laid with cement made of water lime, sharp sand and quick lime. All walls above grade to be laid with mortar made with good sharp sand and quick lime. Wash to be cut on top course of stone as shown on plan No. 3. Cellar to have a good cement bottom. Foundations for piers to be laid same as foundations for main wall and to be two feet square on top; and laid within 2 1/2 in. of top of basement floor; top stone to be not less than 8 in. thick, and dressed on top, to receive iron based columns. Four ventilating flues 8 x 12 to commence at underside of basement floor. Also six chimney flues 8 x 16 to commence four feet below basement ceiling, with sheet iron receiver in bottom of flue, as large as flue, and 8 in. deep. Two ventilating flues to commence with chimney.

Outside stone steps from kitchen and dining hall, to be as shown on Plan No. 1. Outside hatchway to cellar to be laid up with stone steps and wall. To be covered outside with good substantial doors. Tops to sills for window to basement to be according to plan No. 2. Privy vault To be laid ten by twenty feet 16 ft. high  
Lower half of wall to be laid up dry, with good large stone; balance of wall to be laid up with mortar made from sharp sand and quick lime. Brickwork Superstructure of main building to be 90 x 46 Wing to be 42 x 36 All to be three stories with attic, as shown on plan No. 5. 1st story walls to be 18 in. thick. Balance of walls to be 12 in. thick, all to be hollow walls as shown on Plan No. 1. To be one brick wall at left hand side of main hall; in 1st story to be 12 in. wall, and in the 2nd and 3rd stories to be 8 in. wall. One brick wall in cellar 12 in thick as high as top of joist in first floor. Brick wall to Privy to be 8 in thick. 8 ft high and to be building to be divided in three apartments, with wood partitions lathed and

plastered two coat work. Privy to finished with suitable seats with lids, and doors to building Joist 2 x 8  
Floor hard pine tongued + grooved. To have suitable cornice, and first class shingles for roof. Brick All to be  
good merchantable brick. All outside brick to be best hard burnt brick Walls properly bound with good binder laid  
every sixth course. Cistern To be laid up with 12. in. wall - hard brick arched top; top to be six feet below grade and  
to contain 200 Bbls. To be plastered inside with water lime cement, so as to make it water tight. With brick neck  
extending from grade down to neck of cistern,. Said neck to e 2 ft. in diameter in the clear with suitable cover. Flues All  
flues in stone work and brick work to be well laid, and well plastered inside. All Ventilating flues alongside of  
chimneys, to be carried up into chimney top; others to be carried to garret. Smoke flue in each room to have a sheet iron  
thimble. Ventilating flues to have proper ventilation to open and close.

Lathing All brick walls including privy to have three coat work. One scratch coat, one brown coat & one hard finish.

Plastering All partitions & ceilings to be lathed with first quality pine lath 4 ft. long & 1 1/2 in wide free from knots or sap to be nailed with 3 penny fine nails one nail in. All plastering to be finished up to grounds, and worked with straight edge, and warranted for one year. Plaster to be made shard sand, quick lime and hair, with proper proportions to make a good cement. Anchors Stone & Brick walls will be properly anchored at each floor with good wrought iron anchors, made from iron 12 x 3 in. laid proper distance in wall and thoroughly secured to joist, Not to be over 6 ft. apart.

According to Plan No. 3

Stone Cutting All window & door sills to be according to Plans Nos. 1, 2, & 6 Cast Iron. There will be nine cast iron columns in basement & cellar, to be according to work plan No 11. All work to be done in a good substantial, and workmanlike manner.

Bill of Joist Joist in Basement 2 x 10 Joist in 1st 2nd & 3rd stories 2 x 14 Floor Joist in Garret 2 x 10

All Ceilings to be cross fired with 2 x 2 to be placed 16 in from centres, and nailed with one 20 penny nail in each joist, to be put on so as to break joints. Furring strips to be dressed to a thickness. Joist in 1st 2nd & 3rd Stories to be taken to a width, and dressed 3/4 in. crownings. Three partitions in first story, studding to be 2 x 8 as marked on floor plan. All other studding in building to 2 x 6 All studding and Joist to be placed 12 in. from centre, and well bridged with herring bone bridgeing not over four feet apart.

Basement outside walls to be firred with 2 x 4 set flatwise 16 in from centres. Basement and Kitchen to be ceiled up all around as high as the bottoms of the windows with the No 1 flooring, as shown on plan No. 9.

Framing of first floor to be according to plan No. 12 Dimentions of timbers in Roof and belfry to be as shown in Plan No. 10

There will be six trusses to roof in main building, and three in Wing. each truss to have two 1 1/2 in wrought iron bolts. And two 1 in. bolts, as show on plans 10 & 13. Roof Roof to be covered with No. 1 pine Sheeting and shingled with best A. shingles, laid 4 1/2 inc. to the weather, and well nailed. All gutters and valleys to be lined with xx tin, and to extend at least 10 in. under shingles. All chimneys to be well tinned on roof, and made secure against leaking. Roof of Belfry to be covered with xx tin, all posts and angles to where belfry connects with main roof, to be well tinned, and secured against leaking. All tin work to be painted three coats with Ohio fire proof paint, before being covered with shingles or boards. Cornice Cornice to be according to Plan No. 13. Floors. All floors xcept Halls, to be laid with No. 1 clear pine flooring well-seasoned to be tongued and grooved, not over 5 1/2 in wide, and Joints to be well driven up and blind nailed.

Hall floors & Vestibule floor to be laid with 1 1/4 in. white ash, tongued & grooved, not over 4 in. wide, well seasoned, and blind nailed. All floors to be laid inside of shoe to base. Window Frames Basement Window frames to be according to plan No. 9 Window frames for 1st 2d & 3d Stories to be according to plans Nos. 4 & 6 Door frames All doorframes to correspond with windowframes in each story. Cellar windowframes to be according to plan No. 6 with double sash Outside door frames to be according to plans No. 6,7 & 8. Bottoms of Jambs to be fastened to Stone sills with iron pins as shown on plan No. 7 For plan of inside Door frames, see plans No. 7 & 9 Base For Base see plan No. 4 Doors Doors to be as shown on plan No. 5 to be made of the very best material, and thoroughly dry, and in all respects a first class door. Sash All sash to be 1 3/4 in thick styles 2 1/4 in Wide Bottom rail 3 1/2 in. Check rail 1 in.

For size of glass see plan No. 5. Sash in all respects to be first class sash. All sash except Cellar sash to be hung with weights axel pullies and cords Stairs Basement stairs to be build according to plan No. 5. Newel post 10 x 10 Balusters 2 1/2 x 2 1/2 white oak Hand rail 2 1/4 x 5 Black walnut Steps white oak 1 3/4 in thick 4 ft long 11 in. wide Rise not over 7 in. To be studded up under stairs, to make closet. Stairs in 1st Story Hall to be according to plan No. 14 to be closed up underneath, with door at head of basement stairs Stairs in 2d story to be same as 1st story except not closed up underneath. With continued rail form first floor to third floor. Stairs to Garret to be box stairs with door at foot of stairs, steps to be of 1 3/8 in pine, 10 in Wide Rise 8 in. Doors Door that lead from 1st Story to Basement to be 3 ft. x 7 ft. 1 3/4 in thick Front Doors made according to plan No. 6. 2 1/2 in thick 3 ft x 8 ft.

Transom Sash Every Doorframe throughout the building to have a transom over the door 1 3/4 in thick, hung on pivots for size of glass see plan No. 5 Door Trimming Front door to be hung with 4 1/2 x 4 1/2 in loose joints, wrought iron butts. All 1 1/4 in Doors to be hung with 4 x 4 loose joint, wrought iron butts. All 1 3/8 in Doors to be hung with 3 1/2 x 3 1/2 loose joint, wrought iron butts. Each Door to have three butts.

Front Doors to be furnished with first class tumbler lock, with night keys; and one of Taylors best bells.

All other outside Doors to have good tumbler locks, to cost not less than three dollars. All inside Doors to have good suitable locks, white porcelain Knobs, & plated trimmings. Glazing All windows glass to be the best American double strength, and to be well bedded and backputtied. Painting All wood work to be painted three coats, with best whitelead and oil. Colors to be made to suit building committee All knots to be sized with shellac, and all nail holes and defects in wood to be well puttied.

Outside steps in front of main building Platform 16 ft. long and 6 ft. wide Steps 12 in. wide 7 in. Rise  
To be made of 2 in. plank Ends of stoop to be ceiled up with one inch clear flooring, to extend 2 1/2 ft. above platform  
and steps, with suitable Posts at bottom, and rail on top of ceiling. Platform for outside door to wing, to extend far  
enough, so as not to interfere with outside door to basement to be finished  
Steps otherwise same as front Platform. Platforms in rear, from schoolrooms, 6 ft x 8 ft. to be finished same as other  
Platforms. Stairs to Wing To be two flights of stairs in wing, landing on 2d & 3d floors, as shown on plan No. 5. Steps  
to be 3 ft. long, 10 in wide 1 3/8 in. thick, hard wood 7 in. rise to have newel post, balusters, & rail similar to stairs in  
main hall. Lumber To be of good quality, (merchantable lumber). All joist to be square edged, and free from rot. All  
finishing lumber to be of first quality; free from knots, shakes, or black sap.

All carpenter to joiner work to be done in a good, substantial, and workmanlike manner

