


Construction in Photos

Headworks Building 2017

Water Resource Recovery Department
Village of Ashville
Ashville's Water Resource Recovery Facility
Part A - Job No: 60440011

Presentation Available on Line at:
www.ashvilleohio.gov



Ashville's WRRF Project

Vision Statement

Remembering our rural heritage, Ashville will be a vibrant and friendly community, offering an enhanced quality of life achieved through planning, progress and collaboration.

It will be a welcoming place where people want to live and businesses prosper.

Ashville's WRRF Project

Construction Aerial Photo

From November 2016, April, May & November 2017



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Construction in Photos

Headworks Building

It is the initial process after receiving flow from the "Influent Pump Station". Solid material is removed before going to the Oxidation Splitter and Ditch. It is the building that houses influent trash screens and dewatering system.



Headworks Buildings

Ashville's WRRF Project

Construction in Photos

- September 12, 2017
- Crew along with a field service tech placing the Headworks Building makeup air unit in operation.



Ashville's WRRF Project

Construction in Photos

- August 25, 2017
- Crew installing the roof drain pop-up emitter for the Headworks Building.



Ashville's WRRF Project



Construction in Photos



- August 21, 2017
- Crew pouring more concrete sidewalks at the Headworks Building.

Ashville's WRRF Project



Construction in Photos



- August 16, 2017
- Crew pouring concrete for the door stoops and concrete pad at the Headworks Building.

Ashville's WRRF Project



Construction in Photos



- August 14, 2017
- Crew excavated the trench and Sheldon Gas Co. fused and installed the 2" and 3" HDPE DR-11 gas lines for the Administration and Headworks buildings.

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Construction in Photos



- August 11, 2017
- Crew core drilling the hole for the AC refrigerant lines to the outside condensing unit at the Headworks Building electrical room.

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Construction in Photos



- July 21, 2017
- Crew installing the frames and doors in the Headworks Building.

Ashville's WRRF Project



Construction in Photos



- July 18, 2017
- Crew installing the insulation on the waterline in the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- July 18, 2017
- Crew working on the operational tests for the Perforated Screen, Grit Classifier and Screen level transmitters in the Headworks Building.

Ashville's WRRF Project 

Construction in Photos




- July 17, 2017
- Crew connecting the 3" waterline from the Headworks Bldg. to the main 6" waterline.

Ashville's WRRF Project 


Construction in Photos



- July 13, 2017
- HVAC getting ready to install the exterior duct work for the Makeup Air Unit at the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- July 12, 2017
- Crew wiring MCC-2 in the electrical room of the Headworks Building.

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Construction in Photos



- July 11, 2017
- Crew installing the final solenoid valve on the Perforated Plate Screen in the Headworks Building.

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Construction in Photos



- July 7, 2017
- Crew installing the 3" potable cold waterline that goes to the Headworks Building.

Ashville's WRRF Project



Construction in Photos



July 6, 2017

Crew starting to install the 3" DR-9 potable cold waterline for the Headworks Building.

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Construction in Photos



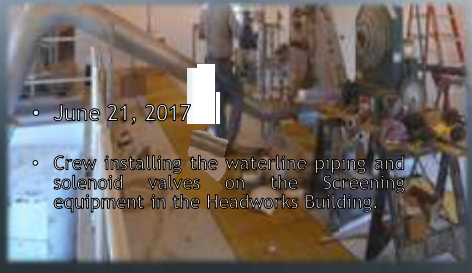
• June 22, 2017

• Crew continuing to install the waterlines to the Screening equipment in the Headworks Building.

Ashville's WRRF Project



Construction in Photos



• June 21, 2017

• Crew installing the waterline piping and solenoid valves on the Screening equipment in the Headworks Building.

Ashville's WRRF Project



Construction in Photos



• June 16, 2017

• Crew continuing to paint the inside walls and piping in the Headworks Building.

Ashville's WRRF Project



Construction in Photos



• June 15, 2017

• Crew painting the walls and piping in the Headworks Building.

Ashville's WRRF Project



Construction in Photos



• June 14, 2017

• Crew applying caulk to the ceiling and wall seams in the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- June 13, 2017
- Crew continuing to paint the interior walls of the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- June 12, 2017
- Crew starting to paint the interior block walls of the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- June 9, 2017
- Crew installing the FRP grating in the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- June 7, 2017
- Crew installing the last Unit Heater in the Headworks Building.

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Construction in Photos



- June 6, 2017
- Crew installed the Makeup Air Unit on the equipment pad at the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- June 5, 2017
- Crew working on installing the 3" Sch-80 PVC waterline, 2" water meter and 3" Backflow Preventer in the Headworks Building.

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Construction in Photos



- June 1, 2017
- Crew installed the duct work for the Make-up Air Unit in the Headworks Building.

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Construction in Photos



- May 31, 2017
- Crew poured 8 yards of 4500 psi w/air concrete for the equipment pad of the Make-Up Air Unit for the Headworks Building.

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Construction in Photos



- May 30, 2017
- Crew installing the Heating Units in the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 26, 2017
- Crew installing the EPDM membrane roof on the electrical room section of the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 26, 2017
- Peterson's crew installed the #304 granular fill for exterior equipment pad at the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 25, 2017
- Crew installing conduit and control wiring for the process equipment in the Headworks Building.

Ashville's WRRF Project



Construction in Photos



- May 24, 2017
- Crew continuing to install the EPDM membrane roof for the Headworks Building.

Ashville's WRRF Project



Construction in Photos



- May 23, 2017
- Crew getting started on installing the EPDM membrane roof for the Headworks Building.

Ashville's WRRF Project



Construction in Photos

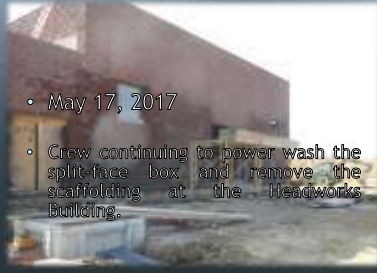


- May 23, 2017
- Crew working on the roof drain piping for the Headworks Building.

Ashville's WRRF Project



Construction in Photos



- May 17, 2017
- Crew continuing to power wash the split-face block and remove the scaffolding at the Headworks Building.

Ashville's WRRF Project



Construction in Photos



- May 16, 2017
- Crew power washing the split-face block on the Headworks Building.

Ashville's WRRF Project



Construction in Photos



- May 15, 2017
- Crew power washing the split-face block and taking down the scaffolding at the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 12, 2017
- Crew installing the pressure treated wood blocking for the metal coping of the Headworks Building Roof.

Ashville's WRRF Project

Construction in Photos



- May 12, 2017
- Crew installing the Glass Block window in the West wall of the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 11, 2017
- Crew installing pressure treated wood blocking for the metal coping for the roof of the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 9, 2017
- Crew laying split-face block for the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 5, 2017
- Crew installing the Aluminum handrail in the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 5, 2017
- Crew continuing to install the Roof Drainage system for the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 4, 2017
- Crew installing the 4" DI piping for the Grit removal system as Crew installs the roof drain piping in the Headworks Building.

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Construction in Photos



- May 4, 2017
- Crew continues to install conduit and light fixtures in the Headworks Building as Peterson's crew installs the Aluminum handrail on the upper level.

Ashville's WRRF Project

Construction in Photos



- May 3, 2017
- Crew laying 12" block for the Parapet wall section of the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 2, 2017
- Crew stacking 12" block on the scaffolding of the Headworks Building.

Ashville's WRRF Project

Construction in Photos



- May 2, 2017
- Crew installing conduit and light fixtures in the Headworks Building

Ashville's WRRF Project

Construction in Photos



- April 28, 2017
- Crew installed and grout sealed the Flexicore concrete roof beams on the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- April 27, 2017
- Crew continuing to lay split-face block on the West wall of the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- April 26, 2017
- Crew laying split-face block on the West wall of the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- April 24, 2017
- Crew pouring 7 yards of 3000 psi grout for the block walls and bond beam of the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- April 21, 2017
- Crew laying 12" block for the West wall of the Headworks Building Screen Room.

Ashville's WRRF Project 

Construction in Photos



- April 21, 2017
- Crew installing the 6" DI piping for the Grit Classifier liquid return line in the Headworks Building.

Ashville's WRRF Project 

Construction in Photos



- April 20, 2017
- Crew installing the I-Beam over the garage door of the Headworks building screen room.

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Construction in Photos

- April 20, 2017
- Crew continuing to lay 12" block for the West wall of the Headworks Building screen room.



Ashville's WRRF Project

Construction in Photos

- April 19, 2017
- Crew laying the 12" block for the West wall of the Screen room in the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 18, 2017
- Crew installing the Process Equipment in the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 17, 2017
- Crew's pouring concrete for the upper level in the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 14, 2017
- Crew pouring and finishing the 3.5 yards of 4000 psi no air concrete for the concrete stairs on the South wall of the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 14, 2017
- Crew stripping the concrete forms from the upper level slab on grade in the Headworks Building.

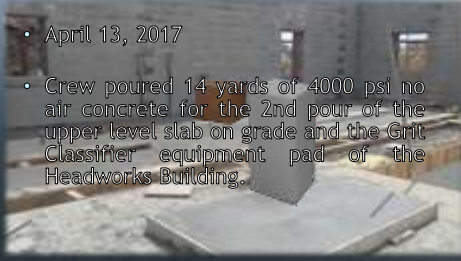


Ashville's WRRF Project



Construction in Photos

- April 13, 2017
- Crew poured 14 yards of 4000 psi no air concrete for the 2nd pour of the upper level slab on grade and the Grit Classifier equipment pad of the Headworks Building.

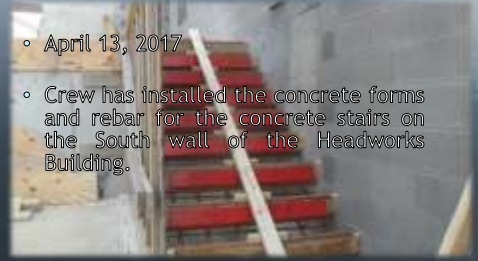


Ashville's WRRF Project



Construction in Photos

- April 13, 2017
- Crew has installed the concrete forms and rebar for the concrete stairs on the South wall of the Headworks Building.

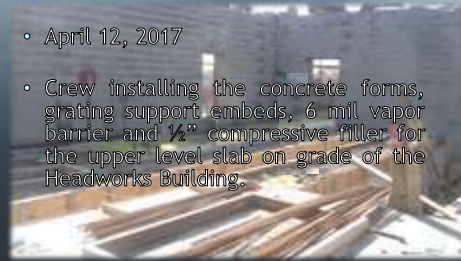


Ashville's WRRF Project



Construction in Photos

- April 12, 2017
- Crew installing the concrete forms, grating support embeds, 6 mil vapor barrier and 1/2" compressive filler for the upper level slab on grade of the Headworks Building.

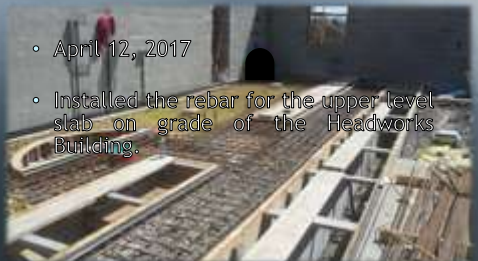


Ashville's WRRF Project



Construction in Photos

- April 12, 2017
- Installed the rebar for the upper level slab on grade of the Headworks Building.

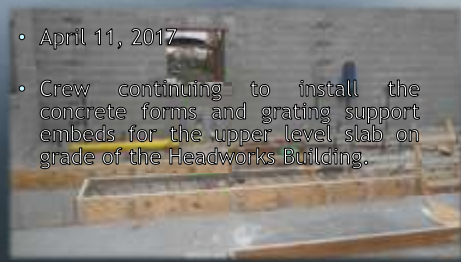


Ashville's WRRF Project



Construction in Photos

- April 11, 2017
- Crew continuing to install the concrete forms and grating support embeds for the upper level slab on grade of the Headworks Building.

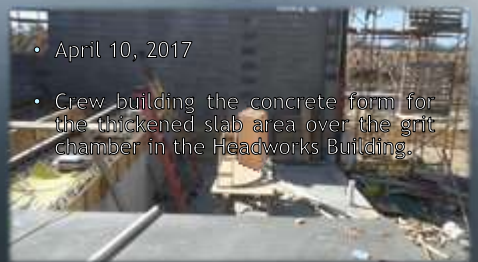


Ashville's WRRF Project



Construction in Photos

- April 10, 2017
- Crew building the concrete form for the thickened slab area over the grit chamber in the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 10, 2017
- Crew continuing to install the concrete forms for the upper level slab on grade of the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 7, 2017
- Crew installing the concrete form for the thickened slab on grade of the grit chamber in the Headworks Building.



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Construction in Photos

- April 7, 2017
- Crew pouring 7.5 yards of 4000 psi no air concrete for the First Slab on Grade pour of the upper level in the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 7, 2017
- Crew installing the concrete forms for the upper level slab on grade in the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 5, 2017
- Crew installed the forms and rebar for the West wall concrete stairs in the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 5, 2017
- Crew finishing the 3 yards of 4500 psi w/air concrete for the West wall concrete stairs of the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 4, 2017
- Crew finishing the concrete on the divider wall between East flow channel and the grit chamber of the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 4, 2017
- Crew continuing to install the concrete forms for the slab on grade area of the upper level of the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 3, 2017
- Crew installed the forms for the concrete divider wall between the East flow channel and grit chamber of the Headworks Building.



Ashville's WRRF Project

Construction in Photos

- April 3, 2017
- Crew building the concrete forms for the slab on grade area of the upper level of the Headworks Building.



Ashville's Water Resource Recover Facility Project Planning Timeline 2015 - 2017

3 1/2 Year or 42 Months

WRRF Plan Implementation

- a. 9 months submit detailed design plan (D) and a complete and approvable Permit to Install (PTI) application for the new WWTP, an application for an NPDES permit, and an anti-degradation addendum
 - Correct any deficiencies within 30 days of notification by letter from Ohio EPA.
- b. 16 months commence construction of the new WWTP in accordance with the approved PTI
 - Within 7 days of commencing construction notify the CDO.
- c. 40 months of the effective date of these Orders, Respondent shall complete construction of the new WWTP in accordance with the approved PTI.
 - Within 7 days of completing construction, notify the CDO.
- d. 60 days of completion of construction of the new WWTP, the WWTP shall attain operational level and shall meet the final effluent limitations in Respondent's NPDES permit.
 - Within 7 days of attain operational level and meet final effluent limitations notify the CDO.

Timeline:

- Timeline Begins June 16, 2014
- June 2014: Design & PTI Submitted
- March 4, 2015
- March 21, 2016: Part A Construction Begins
- January 2, 2017: Part B Construction Begins
- September 2017: Construction Completed
- September 16, 2017: Plant Opens
- November 15, 2017



**THANK YOU
AECOM, FIELDS, AND PETERSON**

ASHVILLE
Vision Statement