Bioretention Area Inspection and Maintenance Checklist (EAST BASIN)

Facility: ST. CASIMIR			
Location/Address: 8223 SOWINSKI CLEVELAND			
Date: 5/26/21	**Time:** 10AM	**Weather Conditions:** CLOUDY	**Date of Last Inspection:** NOT SURE
Inspector: JOHN NIEDZIALEK,		**Title:** CPESC	
Rain in Last 48 Hours ☑ Yes ☐ No	**If yes, list amount and timing:** See Photos		
Pretreatment: ☐ vegetated filter strip ☐ swale ☐ turf grass ☐ forebay ☐ other, specify:			☐ none
Site Plan or As-Built Plan Available: ☑ Yes ☐ No			

Inspection Item		Comment	Action Needed
1. PRETREATMENT			
Sediment has accumulated.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Trash and debris have accumulated.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
2. DEWATERING			
Standing water is present after 24 hours. If yes, describe sheen, color, or smell.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
3. INLETS			
Inlets are in poor structural condition.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment has accumulated and/or is blocking the inlets.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Erosion is occurring around the inlets.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
3. VEGETATION			
Vegetation is wilting, discolored, or dying due to disease or stress.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Vegetation needs to be controlled through mowing or manual removal.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
4. BIORETENTION MAIN INFILTRATION AREA			
Trash and debris have accumulated.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment has accumulated at the surface.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Topmost layer is caked or crusted over with sediment.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Erosion is evident.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Mulch is compacted.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sinkholes or animal borrows are present.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
5. SIDE SLOPES AND EMBANKMENT			
Erosion is evident.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sinkholes or instability is evident.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
6. OUTLETS AND OVERFLOW STRUCTURE (i.e., catch basin)			
Outlets or overflow structures in poor structural condition.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment, trash or debris is blocking the outlets or overflow structure.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Erosion is occurring around the outlets or overflow structure.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Height from surface of practice to top of overflow structure is insufficient to allow for ponding during rain events.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No

Additional Notes
See Photos. BASIN IN GOOD SHAPE – NEW MULCH WAS ADDED JUNE 2020. PLANTINGS OF SHRUBS / FLOWERS STILL BEING DISCUSSED.
Wet weather inspection needed □ Yes □ No

Site Sketch:

East Basin (Behind Rectory and Church) Photo taken 5-26-21

Basin with new mulch added June/ 2020

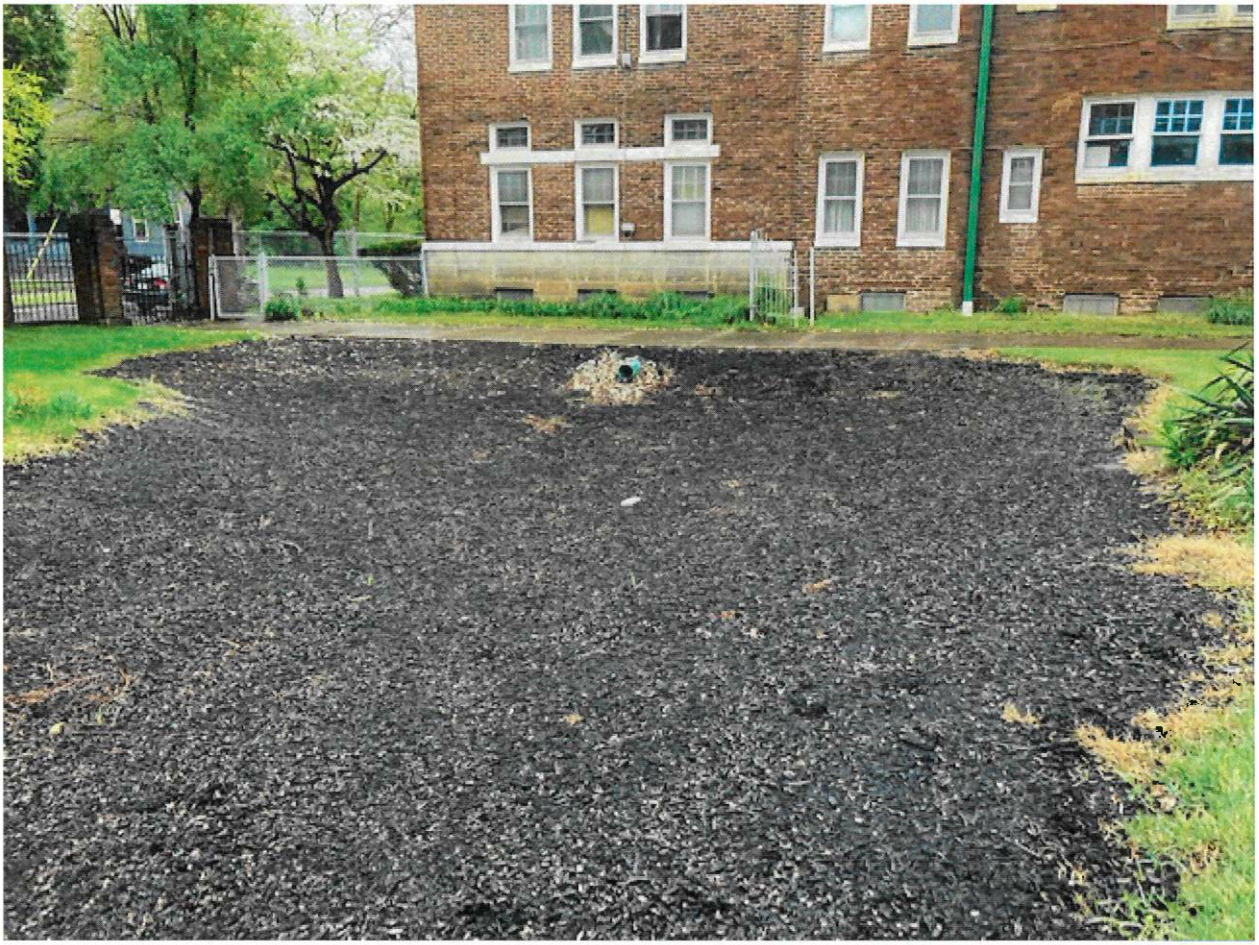
East Basin (Behind Rectory and Church) Photo taken 5-26-21

Inlet pipe from rectory gutters

Outlet pipe at East basin behind rectory and church (photo taken 5-26-21

(DURING RAIN EVENT)

East Basin-Photo taken 5/9/21 during 1.8"rainfall event showing complete infiltration



East basin signage in good shape

Bioretention Area Inspection and Maintenance Checklist (WEST BASIN)

Facility: ST CASIMIR			
Location/Address: 8223 SOWINSKI CLEVELAND			
Date: 5/26/21	**Time:** 10AM	**Weather Conditions:** CLOUDY	**Date of Last Inspection:** ?
Inspector: JOHN NIEDZIALEK		**Title:** CPESC	
Rain in Last 48 Hours ☑ Yes ☐ No	**If yes, list amount and timing:**	See Photos	
Pretreatment: ☐ vegetated filter strip ☐ swale ☐ turf grass ☐ forebay ☐ other, specify:			☐ none
Site Plan or As-Built Plan Available: ☑ Yes ☐ No			

Inspection Item		Comment	Action Needed
1. PRETREATMENT			
Sediment has accumulated.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Trash and debris have accumulated.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
2. DEWATERING			
Standing water is present after 24 hours. If yes, describe sheen, color, or smell.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
3. INLETS			
Inlets are in poor structural condition.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment has accumulated and/or is blocking the inlets.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Erosion is occurring around the inlets.	☑ Yes ☐ No ☐ N/A	MINOR - REPLACE MULCH	☑ Yes ☐ No
3. VEGETATION			
Vegetation is wilting, discolored, or dying due to disease or stress.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Vegetation needs to be controlled through mowing or manual removal.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
4. BIORETENTION MAIN INFILTRATION AREA			
Trash and debris have accumulated.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment has accumulated at the surface.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Topmost layer is caked or crusted over with sediment.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Erosion is evident.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Mulch is compacted.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sinkholes or animal borrows are present.	☑ Yes ☐ No ☐ N/A	SINKHOLE WAS REPAIRED BY ADDING ROCK IN 2019	☐ Yes ☑ No
5. SIDE SLOPES AND EMBANKMENT			
Erosion is evident.	☐ Yes ☐ No ☐ N/A		☐ Yes ☑ No
Sinkholes or instability is evident.	☐ Yes ☐ No ☐ N/A		☐ Yes ☑ No
6. OUTLETS AND OVERFLOW STRUCTURE (i.e., catch basin)			
Outlets or overflow structures in poor structural condition.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment, trash or debris is blocking the outlets or overflow structure.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Erosion is occurring around the outlets or overflow structure.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Height from surface of practice to top of overflow structure is insufficient to allow for ponding during rain events.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No

Additional Notes
see photos photos showing existing condition as of 5/26/21 & photo shows infiltration rate on May 9, 2021 during rain event.
Wet weather inspection needed □ Yes □ No

Site Sketch:

West Basin (behind old convent building) Photo taken 5/26/2021

New mulch was added June 2020 (some minor scouring near inlet pipe

West Basin (behind old convent building) Photo taken 5/26/2021

Noting area of repair made in 2019 where rock was placed in area that was sinking)-still appears stable). This area may require future maintenance to monitor any new sinking.

Showing west basin signage still in place-photo taken 5-26-2021

Showing West Basin on May 9, 2021 during 1.8"rainfall event.

Positive Infiltration /Outlet ok

INLET WITH SURROUNDING PAVER BY GARAGE

Permeable Pavement Inspection and Maintenance Checklist

Facility: ST. CASIMIR			
Location/Address: 8223 SOWINSKI CLEVELAND			
Date: 5/26/21	**Time:** 10:00A	**Weather Conditions:**	**Date of Last Inspection:** ?
Inspector: John NIEDZIALEK		**Title:** CPESC	
Rain in Last 48 Hours ☑ Yes ☐ No	**If yes, list amount and timing:**	see photos of May 9	
Pavement Type: ☑ permeable interlocking concrete pavement (PICP) ☐ asphalt ☐ concrete ☐ other, specify:			
Pretreatment: ☐ vegetated filter strip ☐ swale ☐ turf grass ☐ forebay ☐ other, specify: ☐ none			
Site Plan or As-Built Plan Available: ☑ Yes ☐ No			

*Permeable interlocking concrete pavement (PICP)

Inspection Item		Comment	Action Needed
1. PRETREATMENT			
Sediment has accumulated.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Trash and debris have accumulated.	☑ Yes ☐ No ☐ N/A	CLEANING BETWEEN BRICKS HELPFUL	☑ Yes ☐ No
2. PAVEMENT TRANSITION AREA			
Non-permeable transition area at pavement edges is unstable/deteriorating.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
3. DEWATERING			
Standing water is visible on the surface after a rain event.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
4. PAVEMENT SURFACE AND JOINTS			
Sediment has accumulated on pavement surface.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Trash and debris have accumulated on pavement surface or around curbing.	☐ Yes ☐ No ☐ N/A	SEE ABOVE	☑ Yes ☐ No
Pavement has deteriorated, cracked, settled, or raveled.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment has accumulated in the joints of PICP.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Vegetation is growing in the joints of PICP.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Gravel is insufficient in the joints of PICP.	☐ Yes ☑ No ☐ N/A		☐ Yes ☐ No

Additional Notes

AREA WAS CLEANED NOVEMBER 2020.

Wet weather inspection needed ☐ Yes ☐ No

Inlet with surrounding pavers-photo taken 5-26-21. Additional cleaning would help between pavers. Pavers were cleaned November 2020.

Close up photo on May 26, 2021

Inlet with surrounding pavers-photo taken May 9, 2021 during 1.8" rain event . Infiltration is occurring.

EAST LOT - Between church & HALL

Permeable Pavement Inspection and Maintenance Checklist

Facility: ST CASIMIR			
Location/Address: 8223 SOWINSKI CLEVELAND			
Date: 5/24/21 **Time:** 10AM	**Weather Conditions:**	**Date of Last Inspection:**	
Inspector: JOHN NIEDZIALEK	**Title:** CPESC5		
Rain in Last 48 Hours ☑ Yes ☐ No	**If yes, list amount and timing:** See Photos FROM 5/19/21 & 5/26/21		
Pavement Type: ☑ permeable interlocking concrete pavement (PICP) ☐ asphalt ☐ concrete ☐ other, specify:			
Pretreatment: ☐ vegetated filter strip ☐ swale ☐ turf grass ☐ forebay ☐ other, specify: ☐ none			
Site Plan or As-Built Plan Available: ☐ Yes ☐ No			

*Permeable interlocking concrete pavement (PICP)

Inspection Item		Comment	Action Needed
1. PRETREATMENT			
Sediment has accumulated.	☐ Yes ☐ No ☑ N/A		☐ Yes ☐ No
Trash and debris have accumulated.	☐ Yes ☐ No ☑ N/A		☐ Yes ☐ No
2. PAVEMENT TRANSITION AREA			
Non-permeable transition area at pavement edges is unstable/deteriorating.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
3. DEWATERING			
Standing water is visible on the surface after a rain event.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
4. PAVEMENT SURFACE AND JOINTS			
Sediment has accumulated on pavement surface.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Trash and debris have accumulated on pavement surface or around curbing.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Pavement has deteriorated, cracked, settled, or raveled.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment has accumulated in the joints of PICP.	☑ Yes ☐ No ☐ N/A	MINOR - CAN WAIT UNTIL FALL ANNUAL CLEANING	☐ Yes ☑ No
Vegetation is growing in the joints of PICP.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Gravel is insufficient in the joints of PICP.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No

Additional Notes

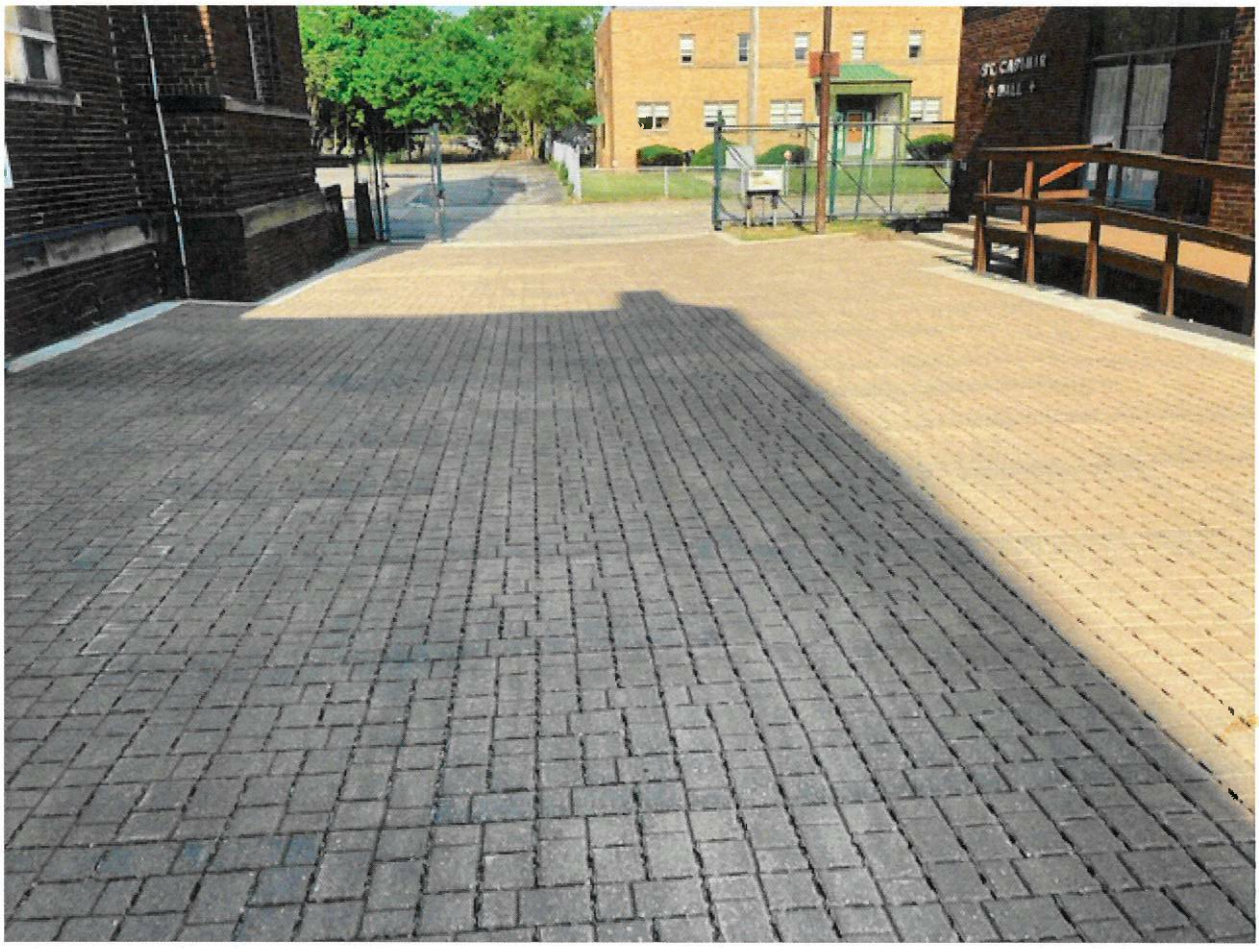
LOT WAS CLEANED/VACUUMED NOVEMBER/2020.

NEXT CLEANING PLANNED FOR 2021

VOLUNTEER & COMMUNITY EVENT HELD TO MAINTAIN PAVERS - see Photos

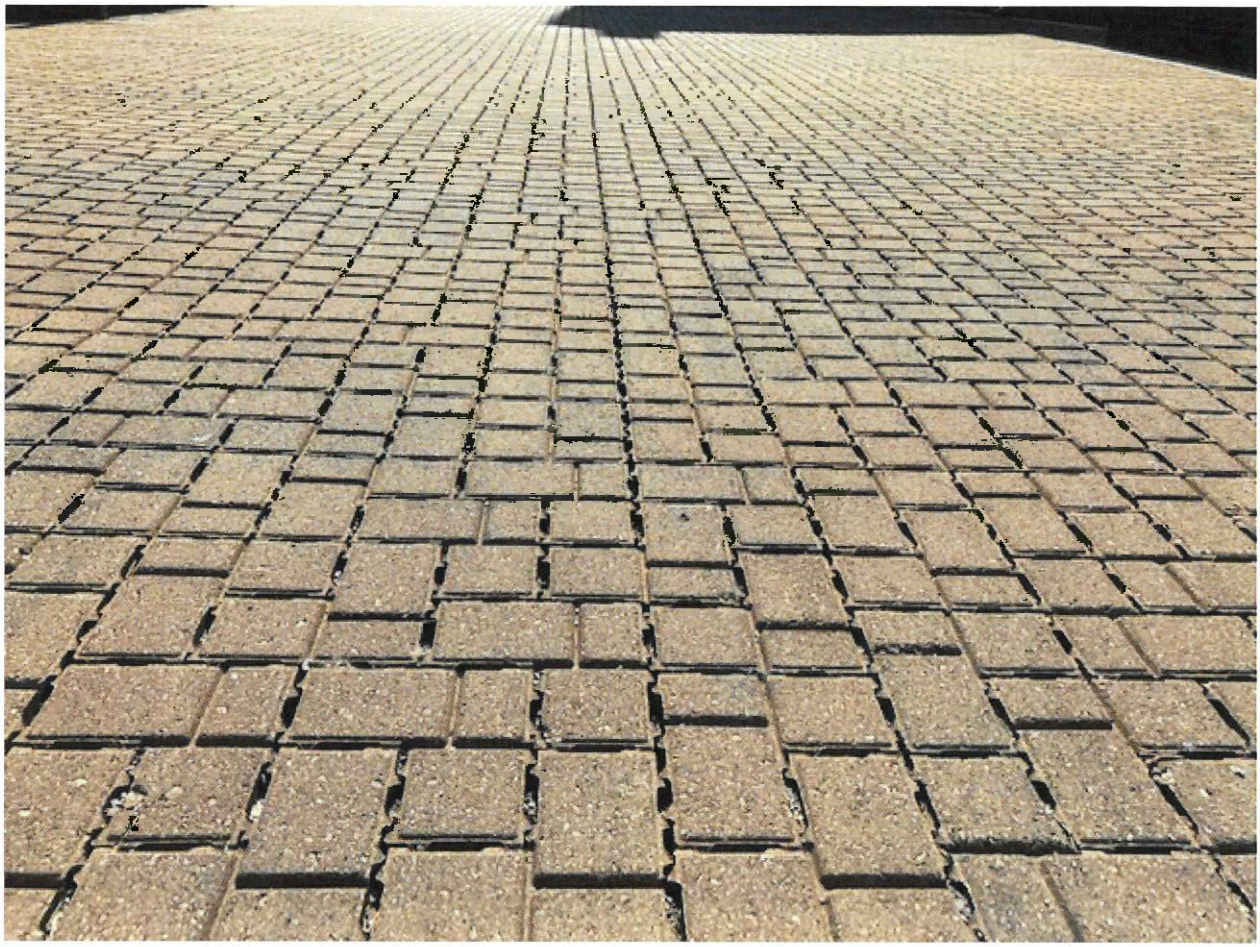
Wet weather inspection needed ☐ Yes ☐ No

East Lot of Permeable Pavers Photo 5-26-2021



East Lot-Showing where gutters outlets on pavers

East lot pavers close-up Photo: 5/26/2021



Permeable paver signage for both lots Photo taken 5-26-2021

On Saturday November 7, 2020 members of St. Gabriel Parish in Concord participated in Community Service Day and spent the day working at St. Casimir Church. St. Gabriel parishioners teamed up with St. Casimir volunteers to provide maintenance of the Northeast Ohio Sewer District Green Infrastructure Project at the church.

Bioretention areas were cleaned out (Earlier this summer mulch was added), permeable pavers were cleaned of moss, sediment, and leaves and vacuumed , and rain barrels were drained for the winter season.

Volunteers also learned of the benefits of the project while providing hands on maintenance of the practices.

To top it off, volunteers picked up trash in the neighborhood and were treated to cabbage and noodles and paczki for lunch!!!

Volunteers Cleaning pavers November 9, 2020

Community Volunteers maintaining Green Infrastructure Project enjoying Polish food after!! November 7, 2020

May 9, 2021 photo of East lot pavers during 1.8' rainfall event

Showing East Lot on May 9, 2021 1.8" rainfall event near outlet of lot where all rain appears to have infiltrated with no offsite runoff observed

WESTLOT – ACROSS STREET FROM CHURCH

Permeable Pavement Inspection and Maintenance Checklist

Facility: ST CASIMIR			
Location/Address: 8223 SOWINSKI CLEVELAND			
Date: 5/26/21	**Time:** 10 AM	**Weather Conditions:**	**Date of Last Inspection:** ?
Inspector: JOHN NIEDZIALEK		**Title:** CPESC'S	
Rain in Last 48 Hours ☑ Yes ☐ No	**If yes, list amount and timing:**	See photos from 5/19/21 & 5/26/21	
Pavement Type: ☑ permeable interlocking concrete pavement (PICP) ☐ asphalt ☐ concrete ☐ other, specify:			
Pretreatment: ☐ vegetated filter strip ☐ swale ☐ turf grass ☐ forebay ☐ other, specify: ☐ none			
Site Plan or As-Built Plan Available: ☐ Yes ☐ No			

*Permeable interlocking concrete pavement (PICP)

Inspection Item		Comment	Action Needed
1. PRETREATMENT			
Sediment has accumulated.	☐ Yes ☐ No ☑ N/A		☐ Yes ☐ No
Trash and debris have accumulated.	☐ Yes ☐ No ☑ N/A		☐ Yes ☐ No
2. PAVEMENT TRANSITION AREA			
Non-permeable transition area at pavement edges is unstable/deteriorating.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
3. DEWATERING			
Standing water is visible on the surface after a rain event.	☐ Yes ☑ No ☐ N/A	SOME MINOR PONDING DURING RAIN EVENT – SEE PHOTO	☐ Yes ☑ No
4. PAVEMENT SURFACE AND JOINTS			
Sediment has accumulated on pavement surface.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Trash and debris have accumulated on pavement surface or around curbing.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Pavement has deteriorated, cracked, settled, or raveled.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No
Sediment has accumulated in the joints of PICP.	☑ Yes ☐ No ☐ N/A	MINOR – CAN WAIT UNTIL FALL ANNUAL CLEANING	☐ Yes ☑ No
Vegetation is growing in the joints of PICP.	☐ Yes ☑ No ☐ N/A		☐ Yes ☐ No
Gravel is insufficient in the joints of PICP.	☐ Yes ☑ No ☐ N/A		☐ Yes ☑ No

Additional Notes

LOT WAS CLEANED / VACUUMED NOVEMBER / 2020.

NEXT CLEANING PLANNED FOR 2021

Wet weather inspection needed ☐ Yes ☐ No

West lot pavers -photo: May 26, 2021

Close up of West lot pavers in good shape May 26,2021 photo

View of West Lot on May 9, 2021 during 1.8"rain event-minor ponding with good infiltration still visible

Rain Barrel/Cistern Inspection and Maintenance Checklist

Facility: ST. CASIMIR			
Location/Address: 8223 SOWINSKI CLEVELAND			
Date: 5/26/21	**Time:** 10AM	**Weather Conditions:** CLOUDY	**Date of Last Inspection:** ??
Inspector: JOHN NIED ZIALEK		**Title:** CPESC	
Rain in Last 48 Hours ☐ Yes ☑ No	**If yes, list amount and timing:**		
Pretreatment: ☐ downspout screen ☐ gutter guards ☐ rain barrel filter/screen ☐ other, specify:			
Site Plan or As-Built Plan Available: ☑ Yes ☐ No			

Inspection Item		Comment	Action Needed
1. PRETREATMENT			
Sediment and debris have accumulated in gutter.	☐Yes ☑No ☐N/A		☐Yes ☑No
The screen or trap is clogged or not attached.	☐Yes ☐No ☐N/A		☐Yes ☐No
2. FOUNDATION			
Barrel foundation is unstable.	☐Yes ☑No ☐N/A		☐Yes ☐No
3. INLETS/DOWNSPOUTS			
Gutters and downspouts joints are disconnected and/or leaks are present.	☐Yes ☐No ☐N/A		☐Yes ☐No
Downspouts are disconnected to barrel and/or leaks are present.	☐Yes ☑No ☐N/A		☐Yes ☐No
Diverter is disconnected and/or leaks are present.	☐Yes ☑No ☐N/A		☐Yes ☐No
3. SPIGOT			
Visible leaks are present and connections are not tight.	☐Yes ☐No ☐N/A		☐Yes ☐No
Valves and knobs do not turn.	☐Yes ☑No ☐N/A		☐Yes ☐No
4. RAIN BARREL/CISTERN			
Sediment accumulated at bottom of barrel.	☐Yes ☐No ☐N/A		☐Yes ☐No
Odor of mildew present or algae is visible inside the barrel.	☐Yes ☐No ☐N/A		☐Yes ☐No
Cracks or leaks are visible in barrel.	☐Yes ☑No ☐N/A		☐Yes ☐No
Mosquito larva is visible in barrel.	☐Yes ☑No ☐N/A		☐Yes ☑No
5. OVERFLOW STRUCTURE			
Overflow is directed away from the structure or disconnected from the downspout.	☐Yes ☑No ☐N/A		☐Yes ☐No
Other:	☐Yes ☐No ☐N/A		☐Yes ☐No

Special Notes: An untrained individual should never enter a cistern. Never drink water from a rain barrel or a cistern. Always follow the manufacturer's manual and recommended maintenance schedule.

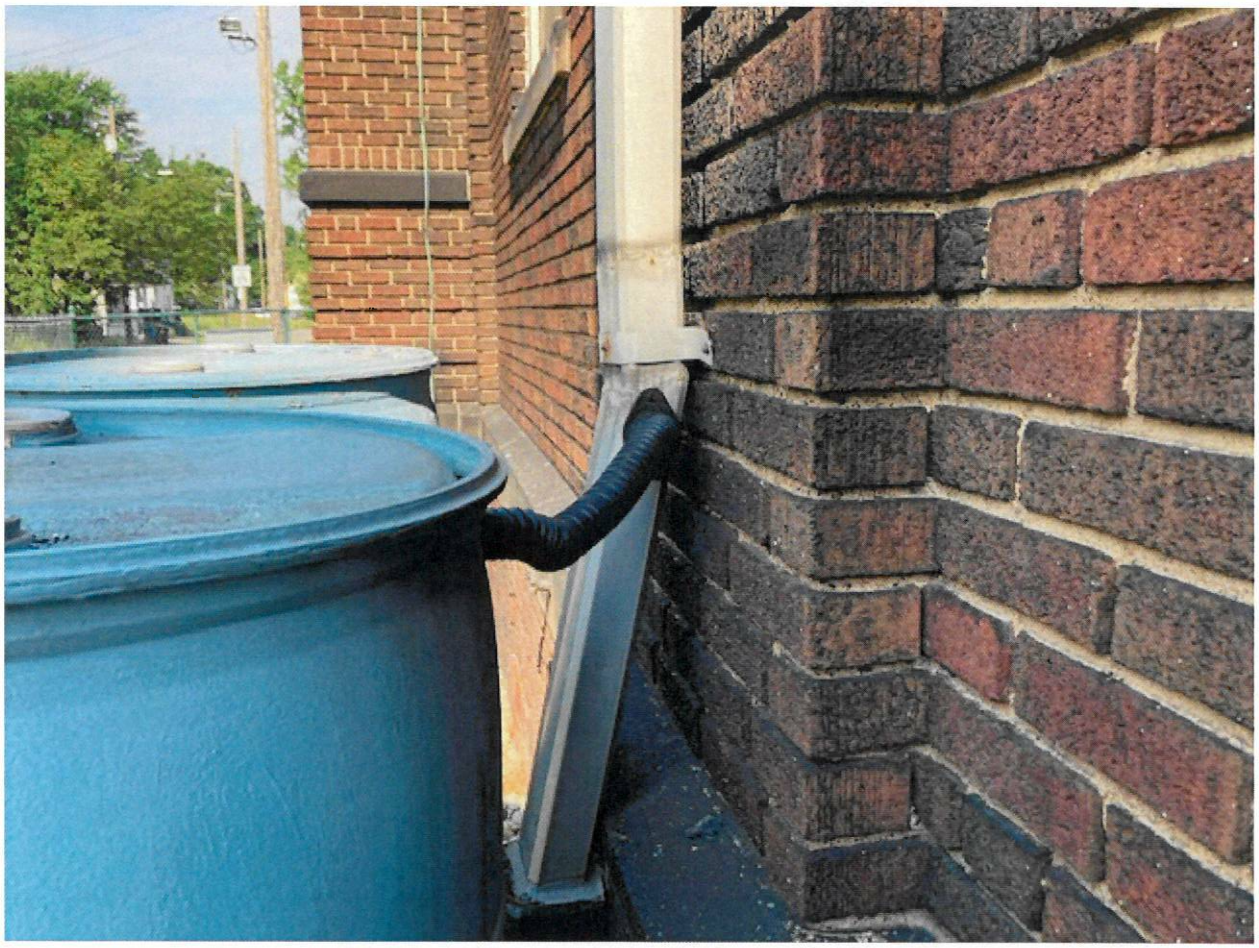
Additional Notes

BARRELS ARE IN GOOD SHAPE JUST RECONNECTED AFTER DORMANT THROUGH WINTER

Wet weather inspection needed ☐ Yes ☐ No

View of rain barrels 5/26/2021 (Paintings made by students at neighboring Willson Public School)

View of rain barrels connected 5/26/2021



Rain Barrell sign May 26, 2021

Overall Project sign still in good shape 5/26/2021