

March 9, 2020

MEMORANDUM

To: City of White House Stormwater Advisory Board

From: Derek Watson, City Recorder

Re: Meeting of the Stormwater Advisory Board

The Stormwater Advisory Board of the City of White House will meet on Monday, March 9, 2020. The meeting will take place at 4:00 pm in the Boardroom of the Billy S. Hobbs Municipal Center located at 105 College Street.

If you have any questions or are unable to attend please contact me at 615-672-4350, ext. 2111.



CITY OF WHITE HOUSE
Stormwater Advisory Board
Agenda
March 9, 2020
4:00 p.m.

- I. Call to Order by Chairman
- II. Roll Call
- III. Adoption of the Agenda
- IV. Approval of December 9, 2019 Meeting Minutes
- V. Reports
- VI. New Business or Discussion Items
 - a. Current Stormwater Project List
- VII. Other Business
- VIII. Adjournment

CITY OF WHITE HOUSE
Minutes
Stormwater Advisory Board
December 9, 2019
4:00 p.m.

I. Call to Order by Chairman

Meeting was called to order at 4:03 pm by Chairman Gerald Herman.

II. Roll Call

Ald. Clif Hutson - Present; Mr. Gerald Herman - Present; Mr. Ceagus Clark - Absent; Mr. Drew Christenson – Present; Mr. Joe Moss – Present; Mr. Rob Dorris – Present; Mr. Jason Barnes – Present;
Quorum – Present.

III. Adoption of the Agenda

Motion was made by Mr. Moss, second by Mr. Christenson to approve the agenda. A voice vote was called for with all members voting aye. **Motion passed.**

IV. Approval of September 9, 2019 Meeting Minutes

Motion was made by Mr. Christenson, second by Mr. Moss to approve the minutes from the September 9, 2019 meeting. A voice vote was called for with Mr. Herman, Mr. Christenson, Mr. Moss, Mr. Dorris, and Mr. Barnes voting aye. Ald. Hutson abstained. **September 9, 2019 minutes were approved.**

V. Reports

Mr. Herman informed the Board that reports for the month of November will be emailed out to all the members.

VI. New Business or Discussion Items

a. Current Stormwater Project List

Public Services Director Joe Moss was present and reviewed stormwater projects that have been completed in White House since the last Board meeting.

VII. Other Business

None

VIII. Adjournment

Meeting adjourned at 4:20 pm.

ATTEST:

Gerald Herman, Chairperson

Amanda Burns, City Recorder

**Public Services Department - Public Works Division
December 2019**

STORMWATER DIVISION

| Total Hours Worked | FY 14/15 | FY 15/16 | FY 16/17 | FY 17/18 | FY 18/19 | | NOV-19 | DEC-19 | YTD 19/20 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|---------------|---------------|------------------|
| Stormwater | 0 | 5,744 | 5,637 | 7,349 | 7,982 | | 500 | 486 | 3,759 |
| Facility Maintenance | 2,049 | 3,494 | 895 | 541 | 455 | | 39 | 24 | 155 |
| Fleet Maintenance | 1,157 | 1,034 | 339 | 228 | 308 | | 30 | 14 | 136 |
| Meeting/Training | 572 | 502 | 345 | 373 | 300 | | 3 | 47 | 169 |
| Leave | 807 | 1,253 | 709 | 576 | 577 | | 10 | 100 | 345 |
| Holiday | 850 | 795 | 375 | 345 | 440 | | 50 | 75 | 235 |
| Overtime | 263 | 508.5 | 306 | 334 | 211 | | 0 | 11 | 183 |
| Administrative | 781 | 385 | 1,489 | 1,347 | 1,206 | | 53 | 66 | 490 |
| Drainage Work (feet) | 0 | 0 | 2,817 | 3,409 | 12,222 | | 0 | 0 | 1,680 |
| Drainage Man Hours | 0 | 0 | 1,229 | 1,359 | 1,809 | | 233 | 5 | 628 |
| Debris Removed Load | 0 | 0 | 115 | 48 | 175 | | 0 | 8 | 83 |
| Sweeping Man Hours | 0 | 0 | 92 | 170 | 237 | | 42 | 12 | 203 |
| Mowing Hours | 0 | 0 | 175 | 96 | 117 | | 0 | 0 | 76 |
| Curb Repair | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Shoulder LF | 0 | 0 | 210 | 0 | 0 | | 0 | 0 | 0 |

| Total Hours Worked | FY 14/15 | FY 15/16 | FY 16/17 | FY 17/18 | FY 18/19 | | NOV-19 | DEC-19 | YTD 19/20 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|---------------|---------------|------------------|
| Shoulder Hours | 0 | 0 | 90 | 27 | 0 | | 0 | 0 | 0 |
| # of Potholes | 0 | 0 | 0 | 140 | 0 | | 0 | 0 | 0 |
| Pothole Hours | 0 | 0 | 2 | 112 | 30 | | 0 | 3 | 3 |
| R-O-W Hours | 0 | 0 | 1,456 | 2,016 | 2,479 | | 10 | 125 | 1,396 |

Stormwater Improvement Projects:

The goal is to maintain the existing drainage infrastructure through culvert replacement, ditch cleaning and dry basin mowing. This department responds to citizen drainage complaints and, as such, we list the requested projects on the City's website. Additionally, we maintain the curbed lanes, intersections, center turn lanes and bike path along 31W with our street sweeping program.

| Stormwater Accounting | FY 14/15 | FY 15/16 | FY 16/17 | FY 17/18 | FY 18/19 | | NOV-19 | DEC-19 | YTD 19/20 |
|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|---------------|---------------|------------------|
| Units Billed | 24,410.00 | 45,476 | 50,278 | 47,822 | 47,456 | | 4,347 | 4,372 | 26,062 |
| # of ERUs | 0 | 0 | 0 | 86,933 | 88,019 | | 8,115 | 8,145 | 48,672 |
| Receivables (Billed) | \$107,250 | \$395,818 | \$638,015 | \$781,529 | \$791,290 | | \$72,954 | \$73,224 | \$437,562 |
| Revenue (Received) | \$105,118 | \$364,022 | \$614,459 | \$808,754 | \$760,244 | | \$69,173 | \$71,06 | \$427,687 |

**Public Services Department - Public Works Division
December 2019**

STORMWATER DECEMBER 2019

Monday 12/2/2019

- EPSC Inspections / Exposed sewer lines on Hester Dr.
- Cleaned truck (1329)

Tuesday 12/3/2019

- EPSC Inspections
- Street sweeper Hwy 76
- Locate sewer line on S Palmers Chapel

Wednesday 12/4/2019

- Ran street sweeper (Hampton Village)
- Built dirt berms for drainage at 550 N Palmers Chapel

Thursday 12/5/2019

- Completed 550 N Palmers Chapel
- EPSC Inspections
- Cleaned truck and changed oil in truck 1329

Monday 12/8/2019 – Thursday, 12/12/2019

- EPSC Inspections
- New Hire Training / Employee Orientation
- Checked R.O.W.

Monday 12/16/2019

- Hot Spots/Overflow Management

Tuesday 12/17/2019

- Staff meeting
- Drains recon

Wednesday 12/18/2019

- EPSC Inspections
- New Hire Training
- R.O.W inspections

Thursday 12/19/2019

- Fleet Maint. / Equipment cleaning
- Water line repair
- Cleaned parking lot
- Drain/Ditch repair
- R.O.W
- EPSC Inspections
- New Hire Training

Monday 12/23/2019

- Employed street sweeper
- ½ day

Tuesday 12/24 – Wednesday 12/25/2019

- Holiday

Thursday 12/26/2019

- New Hire Training
- EPSC Inspections
- Debris removal
- Catch basin cleaning
- Facility Maintenance
- Drainage resolution (Union Rd.)

Monday 12/30/2019

- Debris removal
- Traffic / Signal repair (installed lights)

Tuesday, 12/31/2019

- Road repair (filled potholes, fixed lights and turn signals, blew gravel off road)

**Public Services Department - Public Works Division
January 2020**

STORMWATER DIVISION

| Total Hours Worked | FY 14/15 | FY 15/16 | FY 16/17 | FY 17/18 | FY 18/19 | | DEC-19 | JAN-20 | YTD 19/20 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|---------------|---------------|------------------|
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| Holiday | 850 | 795 | 375 | 345 | 440 | | 75 | 80 | 315 |
| Overtime | 263 | 508.5 | 306 | 334 | 211 | | 11 | 7 | 190 |
| Administrative | 781 | 385 | 1,489 | 1,347 | 1,206 | | 66 | 167 | 657 |
| Drainage Work (feet) | 0 | 0 | 2,817 | 3,409 | 12,222 | | 0 | 150 | 1,830 |
| Drainage Man Hours | 0 | 0 | 1,229 | 1,359 | 1,809 | | 5 | 58 | 686 |
| Debris Removed Load | 0 | 0 | 115 | 48 | 175 | | 8 | 13 | 96 |
| Sweeping Man Hours | 0 | 0 | 92 | 170 | 237 | | 12 | 26 | 229 |
| Mowing Hours | 0 | 0 | 175 | 96 | 117 | | 0 | 0 | 76 |
| Curb Repair | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Shoulder LF | 0 | 0 | 210 | 0 | 0 | | 0 | 0 | 0 |

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| Shoulder Hours | 0 | 0 | 90 | 27 | 0 | | 0 | 0 | 0 |
| # of Potholes | 0 | 0 | 0 | 140 | 0 | | 0 | 0 | 0 |
| Pothole Hours | 0 | 0 | 2 | 112 | 30 | | 3 | 0 | 3 |
| R-O-W Hours | 0 | 0 | 1,456 | 2,016 | 2,479 | | 125 | 186 | 1,582 |

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| # of ERUs | 0 | 0 | 0 | 86,933 | 88,019 | | 8,145 | 8,178 | 56,850 |
| Receivables (Billed) | \$107,250 | \$395,818 | \$638,015 | \$781,529 | \$791,290 | | \$73,224 | \$73,520 | \$511,082 |
| Revenue (Received) | \$105,118 | \$364,022 | \$614,459 | \$808,754 | \$760,244 | | \$71,06 | \$71,486 | \$499,173 |

**Public Services Department - Public Works Division
January 2020**

STORMWATER JANUARY 2020

Monday, January 6th

- Ditch repair and drainage work (Union Rd.)
- Replace culvert (Union Rd.)

Tuesday, January 7th

- Staff meeting
- Pipe installation and extension for school on Wilkerson
- Ditch repair and concrete install (Amber Ln.)
- Traffic control

Wednesday, January 8th

- Ditch repair and concrete install cont. (Amber Lane)
- Repair retention pond (Longview Dr. & Calista Rd.); install pipe to pump

Thursday, January 9th

- Staff meeting
- Exposed sewer line (Calista Rd.); assisted WW
- Removed trees on Apache Trail & Raymond Hirsch

Friday, January 10th

- Ditch repair and sewer maintenance via manhole on Greenway

Monday, January 13th

- SW meeting
- Fleet maintenance (cleaned Mini-Ex)
- Cleaned headwall and replaced culvert (Tyree Springs & Hobbs)

Tuesday, January 14th

- Drive repair and ditch maintenance (Tyree Springs)
- Installed concrete corner (N. Palmers & Brookview)
- Removed dam in creek (Pleasant Ln.)

Wednesday, January 15th

- Evaluated Hot Spots
- Improve concrete on NPC
- Tools and Vehicle Maintenance (#1329)
- Drainage Inspection (Reid Way, Covington Bend)

Thursday, January 16th

- Wastewater digging (Calista Rd.)
- Retrieved brush truck from Nashville
- Tool maintenance (cleaned chain saws; organized for shelving)

Monday, January 20th

- HOLIDAY

Tuesday, January 21st

- Stormwater Inspections (piping at Concord Springs)
- Rewired trailer plug
- Serviced chain saws

Wednesday, January 22nd

- Staff Meeting
- Wastewater project cont. (Calista Rd. – sewer repair)

Thursday, January 23rd

- Fleet maintenance: serviced new dump truck (applied trailer plug)
- Debris removal and installation of rip rap and topsoil (Longview Dr.)

Monday, January 27th

- Staff Meeting
- Stormwater Inspections (ditches and catch basins)
- Street Sweeping (Hwy 76 & 31W)

Tuesday, January 28th

- Mitigated drainage concern submitted on Pebble Creek Rd. (removed sediment and flushed catch basin)
- Clear and Cut trees for Parks & Rec.
- Traffic control (Union Rd.)

Wednesday, January 29th

- Ongoing wastewater project (Calista Rd.)
- Park building spot utilities
- ID# 1630 TO 1800

Thursday, January 30th

- Assist with Parks & Rec building pad
- Clear and cut trees

| Address | Issue | Status |
|---------------------------|--|----------------------|
| 304 Covington Bend | Replace drainage system as needed | Completed 09/11/2017 |
| Dee Cee Road/S.C.T. Drive | Install a new drainage system and widening the intersection for tractor trailer traffic. | Completed 08/15/2017 |
| Hester Drive | KFC to Hampton Inn - To Install sidewalk and drainage, where required, also sidewalks on Knights Circle to the Holiday Inn | Completed 11/23/2016 |
| 113 Eastside Drive | Re-establish ditch line and clear debris allowing positive flow. | Completed 01/14/2016 |
| 115 Brooklawn Drive | Install culvert in ditch in front of house - new head wall to tie into existing headwall. Need to rehab South side drainage ditches-via swales installation-from 31W to creek | Completed 09/09/2016 |
| 103 Cardinal Drive | Drainage improvements on the north side of Cardinal using pipe and catch basins as needed, creating a new crossing at a 90 degree angle, removing rip rap from south side and swale and seed | Completed 10/11/2016 |
| 503 Laura Drive | Re-establish ditch line on both sides, install new drainage culverts, | Completed 12/14/2016 |
| 225 Peachtree Street | Repaired soil erosion near catch basin | Completed 10/10/2016 |
| 200 South Aztec Drive | Repaired soil erosion/extended end wall | Completed 10/10/2016 |
| Kristen & Donal Terrace | Re-establish ditch line and clear debris allowing positive flow | Completed 11/17/2016 |
| 301 Rachel Court | Repair culvert failure within right-of-way | Completed 02/13/2017 |
| 106 Pebble Creek Court | Clean catch basin and re-establish ditch line | Completed 02/01/2017 |
| 409 Brinkley Lane | Extend culvert and repair undermining of roadway | Completed 08/29/2017 |
| 759 McCurdy Road | Drainage swale improvement/restoration project | Completed 09/07/2017 |

| | | |
|-------------------------------|--|----------------------|
| 218 South Palmers Chapel Road | Install catch basin within right-of-way | Ongoing |
| Carmack/Whitson Court | Repair damaged head walls/re-establish ditch line | Completed 09/21/2017 |
| Sage Road Sidewalk Project | Drainage/sidewalk installation project | Completed 05/21/2018 |
| 110 Tison Lane | Stormwater restoration work at culvert crossing | Completed 07/16/2018 |
| 112 Tison Lane | Stormwater restoration work at culvert crossing | Completed 07/16/2018 |
| Oakdale Drive | Re-establish swales to detention pond | Completed 09/04/2018 |
| 118 Oakdale Drive | Re-establish swale, clean culvert crossing | |
| 222 Oakdale Drive | Re-establish swale, culvert repair | |
| 408 Hunterwood Drive | Re-establish drainage swale as needed - partially blocked by rocks that have moved down stream over time and the water never fully drains. | Completed 08/15/2018 |
| 802 Calista Road | Establish a ditch line from the city installed headwall, between the houses and to the rear of the property | Completed 05/23/2018 |
| 108 Sycamore Drive | Re-establish ditch line and clear debris allowing positive flow | |
| 110 Beechbrook | Drainage improvement by installing a new pipe between 108 and 110 Beechbrook Court. | |
| 207 Volunteer Drive | Re-establish ditch line and clear debris allowing positive flow | Completed 06/28/2018 |
| 200 Covington Bend | Small job needs done at headwall side of house - clean, filter fabric, rip-rap as needed. | |
| 401 Rolling Acres | Debris needs to be cleared from drainage ditch allowing positive flow | Completed 01/30/2019 |
| 216 Shady Lane | Re-establish ditch line and clear debris allowing positive flow | |

| | | |
|--|---|----------------------|
| 160 Blueberry | Debris needs to be cleared from drainage ditch allowing positive flow | |
| 177 Blueberry | Repaired soil erosion near headwall | Completed 11/09/2016 |
| 312 Walnut Court | Re-establish ditch line and clear debris allowing positive flow | |
| 306 Donal Terrace | Re-establish ditch line and clear debris allowing positive flow | Completed 09/27/2017 |
| 900 Wilkinson Lane | Reset of culvert making it lower; allowing positive flow of storm water | Completed 10/22/2018 |
| 400 Covington Bend | Re-establish ditch line to allow positive flow of storm water | |
| 216 Cherry Lane | Re-establish ditch line to allow positive flow of storm water | |
| 204 Beechbrook Court | Debris needs to be cleared from drainage ditch allowing positive flow | |
| 212 Lone Oak Drive | Re-establish ditch line to allow positive flow of storm water | |
| 506 Foster Drive | Create drainage swales and cut curb on both sides to all water to flow off street to ease driveway flooding. | |
| 423 Wilkinson Lane | Re-establish ditch line to allow positive flow of storm water | Completed 10/22/2018 |
| N. Palmers Chapel Rd at Chapman Drive | Replace culvert. | Completed 09/27/2018 |
| 303 Hillwood Drive | Install rip rap to alleviate washout of stone wall | |
| 109 Meadows Court | Re-establish ditch line and clear debris allowing positive flow | |
| 609 Wilkinson Lane | Re-establish ditch line and clear debris allowing positive flow | Completed 10/22/2018 |
| Hickerson Dr (both sides) | Clean out ditch line to evaluate necessary repairs / remove trees from ditch line | |
| 125 Village Court | 1. Clean inlet channel area back 50-100'. 2. Work from west side of stream. 3. Use rip-rap as needed on both sides of the box culvert. 4. Use spoils to fill in ditch line. | |
| Oak Place at Shady Ln | Replace culvert. | Completed 11/19/2018 |
| 109-111 Shady Lane | Rehab ditch, create swale, add topsoil, seed and straw | |
| Intersection of Oak Place and Shady Lane | Replace culvert crossing on Oak Place | Completed 11/19/2018 |

| | | |
|--------------------------------|---|----------------------|
| 426 Barksdale Drive | Reestablish drainage swale along Barksdale Drive from Mason Court to Cheyenne | Completed 05/30/2018 |
| 203 Allers Drive | Cleaning out driveway culvert | |
| 106 Hunterwood Court | Swale from street catch basin to rear of property between the two houses needs to be re-established to allow positive flow. | Completed 08/15/2018 |
| 100 Oak Park Court | Install drainage pipe along the Meadows Rd side and fill in the ditch. | |
| 309 Covington Bend | Re-establish swale, repair/cleanout culvert | |
| 416 Highway 76 | Re-establish swale, clean culvert | |
| 125 Brooklawn Drive | Re-establish swale | |
| 121 Industrial Drive | Re-establish swale, clean culvert | |
| 205 Hobbs Drive | Re-establish swale, construct drainage basin | |
| 301 Rolling Acres Drive | Re-establish swale, replace culvert | |
| 401 Hobbs Drive | Re-establish swale | |
| 302 Autumnwood Drive | Rip-rap small section of bank at the curve | Completed 02/05/2018 |
| 106 Forrest Lane | Re-establish swale | Completed 10/19/2016 |
| 100 Hobbs Drive | Re-establish swale | |
| 103 Spicer Court | Re-establish swale, remove rip rap | |
| Wilkinson Lane & Edenway Drive | Re-establish swale, clean culvert | Completed 01/02/2019 |

| | | |
|-----------------------------------|---|----------------------|
| 209 Rolling Acres Drive | Re-establish swale | |
| 214 Robert Avenue | Clean culvert | |
| Wilkinson Lane & Mt. Vernon Court | Re-establish swale/shoulder | Completed 01/02/2019 |
| 701 Stoval Drive | Re-establish swale, clean culvert | Completed 01/02/2019 |
| 215 Rolling Acres | Stormwater swale rehabilitation | |
| 105 Cider Mill | Adding catch basin and culvert pipe between the houses for a length of about 100 feet | Completed 03/21/2019 |
| 213 Louise Drive | Clear debris from ending of concrete swale | Completed 02/25/2019 |
| 3431 Pleasant Grove Road | Re-establish swale | |
| 128 Larkspur Court | Clean culvert | |
| 218 Eastside Drive | Replace culvert to allow positive flow | |
| 210 Spring Street | Re-establish swale to Valley View Drive | |
| 110 Highland Drive | Re-establish swale to Cranor Drive/clean culverts | Completed 01/30/2019 |
| 128 Covington Bend | Re-establish stone within swale | |
| 415 Wilkinson Lane | Re-establish swale | Completed 01/24/2019 |
| 199 Rachel Court | Re-establish swale | |
| North Palmers Chapel Road @ | Re-establish swale/clean culvert | Completed 10/25/2018 |

South Palmers
Chapel Road

100 Heritage Drive Re-establish swale/extend wing wall

105 Winchester Court Rehabilitate drainage infrastructure to provide positive flow

176 Blueberry Clean catch basin and re-establish swale.

164 Honeysuckle Drive Re-establish swale/clean culvert

210 Beechbrook Court Re-establish swale to provide positive flow

102 Rolling Forrest Court Clean culvert and establish swale to provide positive flow

105 Highland Drive Clean culvert and establish swale to provide positive flow Completed 01/30/2019

511 Wilkinson Lane Clean culvert and establish swale to provide positive flow Completed 01/24/2019

609 Wilkinson Lane Clean culvert and establish swale to provide positive flow Completed 01/24/2019

308 Holly Lane Repair drainage structure

212 Donal Terrace Clean culvert and re-establish swale to provide positive flow

102 Indian Point Drive Clean culvert and re-establish swale to provide positive flow Completed 01/02/2019

404 Sunnybrook Drive Clean culvert and re-establish swale to provide positive flow

223 Oak Place Replace culvert Completed 11/19/2018

112 Kristen Court Holes around pipe that runs from the street
back to the creek

403 Autumn Wood Rehab drainage
Drive

406 Hunterwood Re-establish rip-rap ditch line from
Drive headwall to rear of property

| Address | Issue | Status |
|-----------------------------|--|---------------|
| 100 Baylee Court | upgrade piping to allow positive flow; remove and replace existing pipe | ongoing |
| 212 Morgan Trace Court | remove overgrown vegetation surrounding culvert; establish swale behind property. Seed and straw eroded areas at residence | ongoing |
| 122 Sycamore Drive | re-establish swale and remove vegetation and sediment within headwall; remove debris from catch basin at intersection of sycamore and honeysuckle | ongoing |
| 765 McCurdy Road | install drainage pipe culvert to culvert | ongoing |
| Longview Drive/Calista Road | dewater retention pond, backfill with rip-rap, remove sediments to allow positive flow and mitigate flooding , repair rill erosion and embankments | ongoing |
| 109-111 Shady Lane | rehab ditch, create swale, add topsoil, seed and straw | completed |
| 406 Hunterwood Drive | re-establish rip-rap ditch line from headwall to rear of property | completed |
| 212 Long Oak Drive | re-establish ditch line to allow positive flow of storm water | completed |
| 118 Oakdale | re-establish swale, clean culvert crossing | completed |
| 122 Oakdale | re-establish swale, clean culvert crossing | completed |
| 404 Sunnybrook | clean culvert and re-establish swale to provide positive flow | completed |
| 176 Blueberry | clean catch basin and re-establish swale | completed |
| 199 Rachel Court | re-establish ditch line to allow positive flow of storm water | completed |
| 308 Holly Lane | repair drainage structure | completed |
| 212 Donal Terrace | clean culvert and re-establish swale to provide positive flow | completed |