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E & A CONSULTING GROUP, INC.

Engineering Answers

Zachary A. Jilek, CPESC, CISEC
 Environmental Services Dept. Manager

E&A- P2017.463.001

| | | |
|--------------------------|--|--------------|
| Inspector: Avery Dresser | | Stage |
| Project Name: | Prairie Hollow (aka Hidden Hollow per NDEQ NOI) CSW-201802726 | 2 |
| For Week Ending: | 11/9/2019 | 68007 |
| Project Location: | 156th Street and Highway 36 (Bennington Ne, Douglas County) | |

| | | | | |
|----------------------|------------|--|--|--|
| Grading: | 95% | | | |
| Sanitary Sewer: | 75% | | | |
| Storm Sewer: | 75% | | | |
| Paving: | 85% | | | |
| Seeding: | 0% | | | |
| Utilities: | 0% | | | |
| Overall Development: | 35% | | | |

| RAIN FALL AMOUNTS | Amount in tenths | Date inspected | Weather Conditions | |
|-------------------|------------------|------------------|----------------------------|---------------|
| | | | | Week 1 |
| Sunday: | 0.00" | | | |
| Monday | 0.16" | | | |
| Tuesday | 0.00" | | | |
| Wednesday | 0.11" | | | |
| Thursday | 0.00" | | | |
| Friday | 0.05" | | | |
| Saturday | 0.00" | | | |
| | | | | Week 2 |
| Sunday: | 0.00" | | | |
| Monday | 0.00" | 11/4/2019 | Partly Cloudy 50/30 | |
| Tuesday | 0.00" | | | |
| Wednesday | 0.00" | | | |
| Thursday | 0.00" | | | |
| Friday | 0.00" | | | |
| Saturday | 0.00" | | | |
| | | | | Week 3 |
| Sunday: | N/A | | | |
| Monday | N/A | | | |
| Tuesday | N/A | | | |
| Wednesday | N/A | | | |
| Thursday | N/A | | | |
| Friday | N/A | | | |
| Saturday | N/A | | | |

Complaints: Per an email from JEO Consulting on behalf of the City of Bennington on 11/04/19, the city received an email expressing concern about potential erosion of the creek bank adjacent to the project due to erosion along the outlet pipe for one of the risers in SB A. To correct the issue, the email from JEO was forwarded to Ryan Schwarz (developer) and Negus & Son's Construction by Randy Pierce with E&A on 11/04/19 to determine a timetable for completing the necessary maintenance.

Construction Sequencing:
 Which portion(s) (i.e. drainage basins) of the site have had a temporary or permanent cessation of grading, earthwork, or ground disturbance in the last 14 days?

Entire Site: Grading commenced (11/8/18). Grading temporarily ceased due to winter conditions (3/5/19). Entire site: Grading resumed (4/9/19). Major grading complete, minor grading at a later date (4/23/19). Grading along future location of N. Allen Street (6/17/19). Excavation for storm sewer installation in the southern portion of the site (7/15/19). Minor grading in the southern portion of the site (8/12/19).

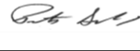


Which portion(s) (i.e. drainage basins) of the site do not have grading, earthwork, or ground disturbance scheduled in the next 14 days? :
 Entire Site: Grading commenced (11/8/18). Grading temporarily ceased due to winter conditions (3/5/19). Entire site: Grading resumed (4/9/19). Major grading complete, minor grading at a later date (4/23/19). Grading along future location of N. Allen Street (6/17/19). Excavation for storm sewer installation in the southern portion of the site (7/15/19). Minor grading in the southern portion of the site (8/12/19).

What temporary or permanent stabilization measures listed in this section are being implemented?
 Existing vegetation (11/8/18).

SUMMARY QUESTIONS:

| | | | | | |
|---|--|------------------------|-------------------------------|---------------|--------------------|
| Are approved entrances and adjacent streets being maintained adequately? | | | | | |
| Yes | | | | | |
| Are receiving waters adjacent to the project free of any significant signs of erosion or sediment that would be associated with the construction activity? | | | | | |
| No, See BMP Section | | | | | |
| CHECKLIST QUESTIONS: | | | | | |
| Are waste materials (concrete, construction material, hazardous, etc.) being managed properly? | | | | | |
| No, See Findings Section | | | | | |
| Is dust associated with the construction activity adequately controlled on the site? | | | | | |
| Yes | | | | | |
| Comments: | | | | | |
| Comments: Site was active for paving during the last inspection. | | | | | |
| Findings / Corrective Actions (Date): | | | | | |
| Findings / Corrective Actions (Date): 1.) Some maintenance is required in the BMP section. 2.) The t-posts along the entire run of perimeter silt fence needs to be spaced properly. They are currently too wide. Negus & Son's Construction was informed to complete by 11/29/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 12/19/18, 1/23/19, 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19 3.) A white fuel tank was observed on-site near CE 1 during inspection on 5/20/19. The fuel tank had appropriate secondary containment as of last inspection. E&A inspector will continue to monitor. 4.) The portable toilet on site was moved to a location near CE 1 (Y9). The portable toilet should be staked down. Negus & Son's Construction was informed to complete by 8/12/19. Not done as of the last inspection. Negus & Son's Construction was reminded on 8/27/19, 9/11/19, 9/27/19 5.) An unapproved entrance in the northwest corner of the site was being used to access the site from Highway 36 prior to inspection on 8/26/19. The entrance should be blocked off or rock should be added to prevent trackout. Negus & Son's Construction was informed to complete by 9/02/19. Not done as of the last inspection. Negus & Son's Construction was reminded on 9/27/19, 10/04/19 6.) A second portable toilet was installed near location BB13 prior to inspection on 9/19/19. The portable toilet should be installed. Negus & Son's Construction was informed to complete by 9/26/19. Not done as of the last inspection. Negus & Son's Construction was reminded on 9/27/19, 10/04/19 | | | | | |
| Unique Name | Type | Location | Projected Install Date | Status | Maintenance |
| CE 1 | Stabilized Construction Entrance | N Molley Street (EE11) | | Removed | |
| Current Condition: | Removed - The former construction entrance was paved prior to the inspection on 11/04/19. | | | | |
| CE 2 | Stabilized Construction Entrance | N 2nd Street (B24) | | Removed | |
| Current Condition: | Removed - The former construction entrance was paved prior to the inspection on 11/04/19. | | | | |
| CW 1 | Concrete Washout | Site | 11/15/2018 | Pending | No |
| Current Condition: | Pending - A concrete washout container was not observed on-site during the inspection on 11/04/19, however no washout waste was observed and paving is close to complete. The paving contractor (Roloff) may be actively removing washout waste. The E&A inspector will continue to monitor. | | | | |
| D1 | Temporary Diversion Ditch | (Z17-II17) | 11/15/2018 | Pending | Yes |
| Current Condition: | Pending - The diversion needs to be installed. Negus & Son's Construction was informed to complete by 12/25/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19 | | | | |
| D2 | Temporary Diversion Ditch | (F25-P21) | 11/15/2018 | Pending | Yes |
| Current Condition: | Pending - The diversion needs to be installed. Negus & Son's Construction was informed to complete by 12/25/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19 | | | | |
| D3 | Temporary Diversion Ditch | (P21-R20) | 11/15/2018 | Pending | Yes |
| Current Condition: | Pending - The diversion needs to be installed. Negus & Son's Construction was informed to complete by 12/25/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19 | | | | |

| | | | | | |
|---------------------------|---|------------|------------|---------|-----|
| D4 | Temporary Diversion Ditch | (B26-D26) | 11/15/2018 | Pending | Yes |
| Current Condition: | <p>Pending -</p> <p>The diversion needs to be installed.</p> <p>Negus & Son's Construction was informed to complete by 12/25/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19</p> | | | | |
| EM 1 | Erosion Control Matting | (C22-DD11) | 11/15/2018 | Pending | No |
| Current Condition: | Pending - The matting will be recommended upon completion of grading. | | | | |
| IF 1 | Inlet Filter | HH14 | 9/9/2019 | Active | Yes |
| Current Condition: | <p>Fair Condition - Negus & Son's Construction installed a silt fence wrap around the storm sewer inlet prior to inspection on 9/09/19. The area around the inlet filled in further with silt prior to inspection on 9/19/19.</p> <p>The silt-fence wrap and inlet should be cleaned out.</p> <p>Negus & Son's Construction was informed to complete by 9/17/19. Not done as of the last inspection. Negus & Son's Construction was reminded on 9/27/19, 10/04/19, 11/04/19</p> | | | | |
| IF 2 | Inlet Filter | HH11 | 9/9/2019 | Active | Yes |
| Current Condition: | <p>Fair Condition - Negus & Son's Construction installed a silt fence wrap around the storm sewer inlet prior to inspection on 9/10/19. The area around the inlet filled in further with silt prior to inspection on 9/19/19.</p> <p>The silt-fence wrap and inlet should be cleaned out.</p> <p>Negus & Son's Construction was informed to complete by 9/17/19. Not done as of the last inspection. Negus & Son's Construction was reminded on 9/27/19, 10/04/19, 11/04/19</p> | | | | |
| SB A | Sediment Basin | D26 | 11/15/2018 | Pending | Yes |
| Current Condition: | <p>Fair Condition - 56% filled - Negus & Son's Construction partially installed the riser in the basin prior to inspection on 9/19/19. The E&A inspector will monitor and determine if all elements of the basin have been correctly installed when work is completed.</p> <ol style="list-style-type: none"> The Preformed Scour Holes should be installed at the outfall to both risers per the SWPPP (previously included under the general recommendation to complete installation of the basin per the SWPPP; previous complete-by and reminder dates still apply). Dirt should be backfilled and compacted along the outlet pipe (previously included under the general recommendation to complete installation of the basin per the SWPPP; previous complete-by and reminder dates still apply). The sediment basin should be cleaned out. <p>1. Negus & Son's Construction was informed to complete by 12/25/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19. Ryan Schwarz (The Developer) was informed to complete ASAP on 10/23/19.</p> <p>2. Negus & Son's Construction was informed to complete by 12/25/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19. Ryan Schwarz (The Developer) was informed to complete ASAP on 10/23/19.</p> <p>3. Ryan Schwarz (The Developer) was informed to complete by 10/29/19.</p> | | | | |
| SB B | Sediment Basin | R20 | 11/15/2018 | Pending | Yes |
| Current Condition: | <p>Pending - Negus and Son's Construction installed one of the riser pipes prior to inspection on 9/19/19. The E&A inspector will monitor and determine if all elements of the basin have been correctly installed when work is completed. Negus & Son's Construction installed the second riser in the basin prior to the inspection on 10/02/19. Rip rap still needs to be installed below both outfalls, and open area around the original riser pipe needs to be backfilled and compacted along the length of the pipe.</p> <ol style="list-style-type: none"> The Preformed Scour Holes should be installed at the outfall to both risers per the SWPPP (previously included under the general recommendation to complete installation of the basin per the SWPPP; previous complete-by and reminder dates still apply). The sediment basin should be cleaned out. <p>1. Negus & Son's Construction was informed to complete by 12/25/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19. Ryan Schwarz (The Developer) was informed to complete ASAP on 10/23/19.</p> <p>2. Ryan Schwarz (The Developer) was informed to complete by 10/29/19.</p> | | | | |
| SF 1 | Silt fence | (A25-1118) | 11/8/2018 | Active | Yes |

| | | | | | |
|--|---|---------------------------|------------|--|-----|
| <p>Current Condition:</p> | <p>Fair Condition - Negus & Son's Construction installed the silt fence prior to the inspection on 11/8/18. Negus installed silt fence in the two areas that were missing and repaired the silt fence where it was damaged prior to the inspection on 3/26/19. Negus & Son's Construction installed a new run of silt fence in the gap south of the future location of SB B prior to inspection on 8/26/19. The silt fence was further damaged and filled in due to grading around the future location of SB A prior to inspection on 9/10/19. The new run of silt fence south of the future location of SB B was filled in due to grading in the area prior to inspection on 9/10/19. The new run of silt fence that needed to be properly trenched-in was buried by silt prior to inspection on 9/19/19, and therefore should be cleaned out / repaired (see #7).</p> <p>1.) The north end of the silt fence should be trenched in. 2.) The old run of silt fence behind the standing silt fence should be removed. 3.) The silt fence should be cleaned out at the north end of SB B. 4.) The silt fence near the future location of SB A should be cleaned out and repaired/reinstalled. 5.) The silt fence should be repaired/reinstalled east of the future location of SB B. 6.) The silt fence should be repaired where driven-over near the far north end of the run. 7.) The new run of silt fence south of the future location of SB B should be cleaned out / repaired.</p> <p>1.) Negus & Son's Construction was informed to complete by 4/2/19. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19, Negus & Son's Construction was reminded on 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19 2.) Negus & Son's Construction was informed to complete by 4/2/19. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19 3.) Negus & Son's Construction was informed to complete by 4/2/19. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19 4.) Negus & Son's Construction was informed to complete by 4/2/19. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19 5.) Negus & Son's Construction was informed to complete by 5/27/19. Not done as of last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19</p> | | | | |
| | <p>6.) Negus & Son's Construction was informed to complete by 9/02/19. Not done as of the last inspection. Negus & Son's Construction was reminded on 9/11/19, 9/27/19, 10/04/19, 11/04/19 7.) Negus & Son's Construction was informed to complete by 9/17/19. Not done as of the last inspection. Negus & Son's Construction was reminded on 9/27/19, 10/04/19, 11/04/19</p> | | | | |
| SF 2 | Silt fence | II18 | 11/29/2018 | Pending | Yes |
| <p>Current Condition:</p> | <p>Pending -</p> <p>The silt fence needs to be installed to cover the adjacent waterway.</p> <p>Negus & Son's Construction was informed to complete by 11/29/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 12/19/18, 1/23/19, 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19</p> | | | | |
| SF 3 | Silt fence | II17 | 11/29/2018 | Pending | Yes |
| <p>Current Condition:</p> | <p>Pending -</p> <p>The silt fence needs to be installed to cover the adjacent waterway.</p> <p>Negus & Son's Construction was informed to complete by 11/29/18. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 12/19/18, 1/23/19, 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19</p> | | | | |
| SF 4 | Silt fence | (DD1-DD14) | 11/8/2018 | Active | Yes |
| <p>Current Condition:</p> | <p>Fair Condition - Negus & Son's Construction installed the silt fence prior to the inspection on 11/8/18.</p> <p>The silt fence needs removed.</p> <p>Negus & Son's Construction will be informed to complete when winter conditions allow as of the inspection on 2/19/19. Not done as of the last inspection. Mikhail with Negus & Son's Construction was reminded on-site on 7/15/19. Negus & Son's Construction was reminded on 3/16/19, 3/29/19, 4/24/19, 5/20/19, 6/06/19, 6/18/19, 6/24/19, 7/24/19, 8/05/19, 8/27/19, 9/11/19, 9/27/19, 10/04/19, 11/04/19</p> | | | | |
| STR | Streets | Site | 11/8/2018 | Active | No |
| <p>Current Condition:</p> | <p>Good Condition - Negus & Son's Construction cleaned up the trackout on the adjacent streets p </p> <p>8/05/19.</p> | | | | |
| SWPPP Sign | Misc/Other | At CE1, end N. Molley St. | 12/17/2018 | Active | No |
| <p>Current Condition:</p> | <p>Good Condition- The inspector installed the sign during the inspection on 12/17/18.</p> | | | | |
| <p>Inspector Signature: </p> | | | | <p>Reviewed By: </p> | |