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E & A CONSULTING GROUP, INC.

Engineering Answers

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 Environmental Services Dept. Manager

E&A - P2020.100.002

| | | |
|------------------------|---|--------------|
| Inspector: Nathan Hack | | Stage |
| Project Name: | Golden Hills Phase II IA - 38142 - 37869 | 1 |
| For Week Ending: | 4/15/2023 | 51526 |
| Project Location: | Golden Hills Drive & Old Mormon Bridge Road (Crescent, Iowa) | |

| | | | | |
|----------------------|------|--|--|--|
| Grading: | 100% | | | |
| Sanitary Sewer: | 100% | | | |
| Storm Sewer: | 100% | | | |
| Paving: | 100% | | | |
| Seeding: | 70% | | | |
| Utilities: | 100% | | | |
| Overall Development: | 70% | | | |

| RAIN FALL AMOUNTS | Amount in tenths | Date inspected | Weather Conditions | Time | Storm Event Times |
|-------------------|------------------|----------------|---------------------|---------|--------------------|
| | | | | | Week 1 |
| Sunday | 0.00" | | | | |
| Monday | 0.11" | | | | |
| Tuesday | 0.00" | 4/11/2023 | Mostly Cloudy 82/50 | 3:10 PM | |
| Wednesday | 0.00" | | | | |
| Thursday | 0.00" | | | | |
| Friday | 1.07" | | | | 3:52 PM - 12:00 AM |
| Saturday | 0.08" | | | | 12:00 AM - 6:52 PM |

Complaints:

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?

Grading began in spring 2021; Entire site graded by fall 2021 (3/17/22). Grading in the northeast quarter of the site (5/17/22). Excavation of hillside on northeast portion of site (11/8/22). Minor ground disturbance for mailbox installation (11/28/22). Sidewalk installation active along lots 41, 42, and 43 (1/10/23). Tree removal and grubbing on northeast corner of site (1/24/23)

Which portion(s) (i.e. drainage basins) of the site do not have grading, earthwork, or ground disturbance scheduled in the next 14 days?

Grading began in spring 2021; Entire site graded by fall 2021 (3/17/22). Grading in the northeast quarter of the site (5/17/22). Excavation of hillside on northeast portion of site (11/8/22). Minor ground disturbance for mailbox installation (11/28/22). Sidewalk installation active along lots 41, 42, and 43 (1/10/23). Tree removal and grubbing on northeast corner of site (1/24/23)

What temporary or permanent stabilization measures listed in this section are being implemented?

Existing vegetation (3/17/22). Slope along SW corner of the site seeded / matted in fall 2021 (3/17/22). Area west of Lot 33 and Lot 61 seeded / matted (3/29/22). North side of Silver Lane and east side of Copper Mountain Drive seeded / matted (3/29/22). South side of Silver Lane and west side of Copper Mountain Drive seeded / matted (4/5/22). Rear of Lots 58 - 60 partially seeded / matted (4/5/22). Disturbed area behind Lots 38 - 40 seeded / matted (4/5/22). Lots 34-40 and 59-61 sodded (4/12/22). Rear of Lots 55 - 57 seeded / matted (7/26/22). Rear of lot 42 seeded / matted (11/8/22).

Checklist Questions:

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

Create Corrective Action?

See BMP Section

Have disturbed areas been seeded or otherwise stabilized as required? List inactive portions of the project and if stabilization measure are adequate or needed to prevent erosion.

No

Create Corrective Action?

No, see Findings Section

Are waste materials (concrete, construction material, hazardous, etc.) being managed properly?

No

Create Corrective Action?



No, see BMP Section

Are construction entrances and adjacent streets being maintained adequately?

No

| Create Corrective Action? | | | | | |
|---|--|------------------------------------|------------------------|---------|-------------|
| No, see BMP Section | | | | | |
| Is dust associated with the construction activity adequately controlled on the site? | | | | | |
| Yes | | | | | |
| Create Corrective Action? | | | | | |
| N/A | | | | | |
| Comments: | | | | | |
| Comments: 1.) Site was active during the last inspection. | | | | | |
| Findings / Corrective Actions (Date): | | | | | |
| Findings / Corrective Actions (Date): 1.) Some maintenance is required in the BMP section. 2.) E&A began inspecting the site on 3/17/22 after being contracted for SWPPP services by Neal Drickey. | | | | | |
| | | | | | |
| Unique Name | Type | Location | Projected Install Date | Status | Maintenance |
| CE 01 | Construction Entrance | X3 | | Removed | |
| Current Condition: | Removed - Neal Drickey paved the entrance prior to the 3/17/22 inspection. | | | | |
| CE 02 | Construction Entrance | D6 | | Removed | |
| Current Condition: | Removed - Neal Drickey paved the entrance prior to the 3/17/22 inspection. | | | | |
| CE A | Construction Entrance | BB7 | 4/1/2021 | Active | Yes |
| Current Condition: | <p>Poor Condition -5% effective - Neal Drickey installed the entrance prior to the 3/17/22 inspection. CE A is no longer effective; a negligible amount of rock remains present (2/14/23). CE A continues to experience use despite its ineffectiveness (2/28/23). CE A was compacted without the addition of rock to the entrance prior to the 3/21/23 inspection.</p> <p>A 6" layer of 2" diameter rock should be added to the entrance, or the entrance should be stabilized and closed off to prevent anyone from accessing the site from this location.</p> <p>Neal Drickey was informed to complete by 3/24/22. Not done as of last inspection. Neal Drickey was reminded on 4/21/22, 5/24/22, 6/24/22, 7/20/22, 8/3/22, 8/16/22, 11/9/22, 11/30/22, 2/03/23.</p> | | | | |
| DS 1 - 6 | Diversion | See SWPPP | | Removed | |
| Current Condition: | Removed - Due to progress of lot-level construction diversions 1-6 will no longer be recommended as of the 11/01/2022 inspection. | | | | |
| DS A - O | Diversion | See SWPPP | 4/1/2021 | Active | Yes |
| Current Condition: | <p>Fair Condition - Neal Drickey installed DS B and DS I - M prior to the 3/17/22 inspection. DS A is not indicated on the SWPPP map, so installation will not be recommended. Installation of DS C, DC E - H and DS O is not recommended as of 3/17/22 due to progress of lot-level construction and existing grade of the site. E&A inspector will continue to monitor. Neal Drickey removed DS B, I, J, K, L and M prior to the 8/9/22 inspection. Due to grading and lot-level construction in the area, reinstallation will not be recommended. Neal Drickey installed Diversion N prior to the inspection on 11/8/22.</p> <p>Diversion D should be installed.</p> <p>Neal Drickey was informed to complete by 3/31/22. Not done as of last inspection. Neal Drickey was reminded on 5/24/22, 6/24/22, 7/20/22, 11/30/22, 2/03/23</p> | | | | |
| ECM 1 | Erosion Control Matting | SW Corner | 4/1/2021 | Active | No |
| Current Condition: | Good Condition - Neal Drickey installed the erosion control matting along the slope prior to the 3/17/22 inspection. Neal Drickey extended the matting north and east to cover lots 38-40 and 35-40 prior to the 4/5/22 inspection. | | | | |
| ECM 2 | Erosion Control Matting | East Side of Copper Mountain Drive | 3/29/2022 | Active | No |
| Current Condition: | Good Condition - Neal Drickey installed the erosion control matting along the ROW of Copper Mountain Drive and Silver Lane prior to the 3/29/22 inspection. Some of the matting was removed for utility work prior to the 4/26/22 inspection. E&A inspector will continue to monitor. | | | | |
| ECM 3 | Erosion Control Matting | West Side of Copper Mountain Drive | 4/5/2022 | Active | No |
| Current Condition: | Good Condition - Neal Drickey installed the erosion control matting along the ROW of Copper Mountain Drive and Silver Lane prior to the 4/5/22 inspection. | | | | |
| ECM 3 | Erosion Control Matting | Western Perimeter | 4/5/2022 | Active | No |
| Current Condition: | Good Condition - Neal Drickey installed the erosion control matting along several sections of SF 3 prior to the 4/5/22 inspection. | | | | |
| FT 01 | Fuel Tank | On Site | 3/17/2022 | Active | No |
| Current Condition: | Good Condition - Neal Drickey installed a fuel tank north of SB A prior to the 3/17/22 inspection. Neal Drickey built a berm around the fuel tank prior to the 4/5/22 inspection. | | | | |
| IP 1 - 10 | Inlet Protection | On Site | 3/24/2022 | Pending | Yes |
| Current Condition: | <p>Pending -</p> <p>Inlet protection should be installed on the ten grate inlets on Silver Lane.</p> <p>Neal Drickey was informed to complete by 3/24/22. Not done as of last inspection. Neal Drickey was reminded on 4/21/22, 5/24/22, 6/24/22, 7/20/22, 8/3/22, 8/16/22, 11/9/22, 11/30/22, 2/03/23</p> | | | | |
| Lot 33 | Individual Lot | Lot 33 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/5/22 inspection. | | | | |
| Lot 34 | Individual Lot | Lot 34 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| Lot 35 | Individual Lot | Lot 35 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |

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|---------------------------|---|-----------|-----------|---------|-----|
| Lot 36 | Individual Lot | Lot 36 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| Lot 37 | Individual Lot | Lot 37 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| Lot 38 | Individual Lot | Lot 38 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| Lot 39 | Individual Lot | Lot 39 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| Lot 40 | Individual Lot | Lot 40 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| Lot 41 | Individual Lot | Lot 41 | 8/2/2022 | Active | No |
| Current Condition: | Good Condition - Neal Drickey began excavating the lot prior to the 8/2/22 inspection. Neal Drickey repaired the erosion rills prior to the inspection on 11/29/22. Sidewalk paving was completed in front of the lot prior to the 3/14/23 inspection. Neal Drickey installed wattles on the front and downhill side of the lot prior to the 3/21/23 inspection. E&A inspector will monitor for lot stabilization. | | | | |
| Lot 42 | Individual Lot | Lot 42 | 8/2/2022 | Active | No |
| Current Condition: | Good Condition - Neal Drickey began excavating the lot prior to the 8/2/22 inspection. Sidewalk paving was completed in front of the lot prior to the 3/14/23 inspection. Neal Drickey installed wattles on the front and downhill side of the lot prior to the 3/21/23 inspection. E&A inspector will monitor for lot stabilization. | | | | |
| Lot 43 | Individual Lot | Lot 43 | 8/2/2022 | Active | No |
| Current Condition: | Good Condition - Neal Drickey began excavating the lot prior to the 8/2/22 inspection. Sidewalk paving was completed in front of the lot prior to the 3/14/23 inspection. Neal Drickey installed wattles on the front and downhill side of the lot prior to the 3/21/23 inspection. E&A inspector will monitor for lot stabilization. | | | | |
| Lot 54 | Individual Lot | Lot 54 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lots prior to the inspection on 10/11/22. | | | | |
| Lot 55 | Individual Lot | Lot 55 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lots prior to the inspection on 10/11/22. | | | | |
| Lot 56 | Individual Lot | Lot 56 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lots prior to the inspection on 10/11/22. | | | | |
| Lot 57 | Individual Lot | Lot 57 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lots prior to the inspection on 10/11/22. | | | | |
| Lot 58 | Individual Lot | Lot 58 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 5/17/22 inspection. | | | | |
| Lot 59 | Individual Lot | Lot 59 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| Lot 60 | Individual Lot | Lot 60 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| Lot 61 | Individual Lot | Lot 61 | | Removed | |
| Current Condition: | Removed - Neal Drickey sodded the lot prior to the 4/12/22 inspection. | | | | |
| MS 01 | Material Storage | On Site | 4/1/2021 | Active | No |
| Current Condition: | Good Condition - Neal Drickey added a designated material storage area prior to the 3/17/22 inspection. Lots 44 and 45 are being used as construction material staging areas. No BMPs are being recommended for these lots since there is no active grading. | | | | |
| PB X | Portable Bathroom | On Site | 7/12/2022 | Active | Yes |
| Current Condition: | Fair Condition - Neal Drickey placed a portable toilet on Lot 49 prior to the 7/12/22 inspection. The portable toilet should be secured. Neal Drickey was informed to complete by 7/19/22. Not done as of last inspection. Neal Drickey was reminded on 8/3/22, 8/16/22, 11/9/22, 11/30/22, 2/03/23 | | | | |
| SB 1 | Sediment Basin | N of CE 1 | 4/1/2021 | Active | Yes |
| Current Condition: | Poor Condition - 10% filled - Neal Drickey installed the sediment basin prior to the 3/17/22 inspection. The E&A inspector painted the cleanout mark on the riser during the 4/19/22 inspection. The basin should be installed per the SWPPP plan, including a berm around all sides, anti-vortex device, emergency spillway, and properly elevated dewatering holes. Neal Drickey was informed to complete by 3/24/22. Not done as of last inspection. Neal Drickey was reminded on 4/21/22, 5/24/22, 6/24/22, 7/20/22, 8/3/22, 8/16/22, 11/9/22, 11/30/22, 2/03/23 | | | | |
| SF 1 - 3 | Silt Fence | See SWPPP | 4/1/2021 | Active | Yes |
| Current Condition: | Fair Condition - Neal Drickey installed SF 3 prior to the 4/20/21 inspection. Due to stabilization of Lot 33, installation of SF 2 is no longer recommended as of 4/5/22. Neal Drickey cleaned out, repaired, and extended SF 3 prior to the 4/5/22 inspection. Due to stabilization of Lot 61, installation of SF 1 is no longer recommended as of 4/12/22. Silt fence should be cleaned out and removed. The area should then be stabilized. Neal Drickey was informed to complete by 10/18/22. Not done as of last inspection. Neal Drickey was reminded on 11/9/22, 11/30/22, 2/03/23 | | | | |
| SF A - Q | Silt Fence | See SWPPP | 4/1/2021 | Active | Yes |

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|--------------------------------|---|------------------------------------|-----------|--------------|---|
| Current Condition: | <p>Fair Condition - Neal Drickey installed SF A-D and SF L, M, O, P prior to the 3/17/22 inspection. Neal Drickey removed SF C and D during lot-level fine grading prior to the 3/29/22 inspection. Reinstallation will not be recommended. Due to seeding / matting behind lot 61, reinstallation of SF N is no longer recommended as of the 3/29/22 inspection. E&A inspector will continue to monitor. Neal Drickey removed SF B and installed SF I prior to the 4/5/22 inspection. SF I is adequately containing sediment, so installation of SF H is no longer recommended as of 4/5/22. E&A inspector will continue to monitor. Due to sodding of upgradient lots, installation of SF E is no longer recommended as of 4/19/22. E&A inspector will continue to monitor. Minor damage was observed to SF L during the 5/3/22 inspection. E&A inspector will continue to monitor. Neal Drickey removed SF L, M, and O prior to the 8/2/22 inspection. Vegetation has covered 70% of exposed dirt near SF L, M, O prior to the inspection on 8/23/22. E&A inspector will continue to monitor.</p> <p>Silt fence should be installed around the ground disturbance in the northeast quadrant of the site.</p> <p>Neal Drickey was informed to complete by 7/26/22. Not done as of last inspection. Neal Drickey was reminded on 8/3/22, 8/16/22, 11/9/22, 11/30/22, 2/03/23</p> | | | | |
| ST A - K | Sediment Trap | See SWPPP | 4/1/2021 | Active | No |
| Current Condition: | <p>Good Condition - Neal Drickey installed ST B and SD D - J prior to the 3/17/22 inspection. Due to progress of lot-level construction and storage capacity of ST D, installation of ST K is not recommended as of 3/24/22. E&A inspector will continue to monitor. Neal Drickey installed ST A and ST C prior to the 3/29/22 inspection. Neal Drickey reinstalled ST G, H, I, and J prior to the 5/17/22 inspection. Neal Drickey cleaned out ST C prior to the 8/2/22 inspection. Neal Drickey cleaned out ST A and removed ST B, ST G, H, I, and J prior to the 8/9/22 inspection. Due to grading and lot-level construction in the area, reinstallation will not be recommended. Neal Drickey cleaned out and reshaped ST A and ST K prior to the inspection on 11/8/22.</p> | | | | |
| STR | Streets | On Site | 4/1/2021 | Active | No |
| Current Condition: | <p>Good Condition - Trackout was observed on Copper Mountain Drive during the 3/17/22 inspection. Neal Drickey cleaned the streets prior to the 4/5/22 inspection. Neal Drickey cleaned the streets prior to the 5/17/22 inspection. No major signs of trackout were observed during the most recent inspection. Neal Drickey cleaned the streets prior to the 8/23/22 inspection. No major signs of trackout were observed during the most recent inspection. Neal Drickey cleaned the streets prior to the 2/21/23 inspection.</p> | | | | |
| SWPPP Sign | SWPPP Sign | On Site | 3/31/2022 | Active | No |
| Current Condition: | <p>Good Condition - The E&A inspector installed the sign north of the Silver Lane entrance during the 4/26/22 inspection. E&A inspector updated the SWPPP sign with the correct permit information during the 1/3/2023 inspection.</p> | | | | |
| W 1 | Straw Wattles | East Side of Copper Mountain Drive | 3/29/2022 | Active | No |
| Current Condition: | <p>Good Condition - Neal Drickey installed the wattles along the ROW of Copper Mountain Drive and Silver Lane prior to the 3/29/22 inspection.</p> | | | | |
| W A - H | Straw Wattles | See SWPPP | 4/5/2022 | Active | No |
| Current Condition: | <p>Good Condition - Neal Drickey installed erosion control matting in place of W A, installed W B, and installed silt fence in place of W C prior to the 4/5/22 inspection. Due to progress of lot-level construction, installation of W D - H is not recommended. E&A inspector will continue to monitor.</p> | | | | |
| WO 1 | Concrete Washout | On site | 3/24/2022 | Active | Yes |
| Current Condition: | <p>Fair Condition - Neal Drickey cleaned up the concrete waste and installed a designated concrete washout east of SB 1 prior to the 4/5/22 inspection. Some minor concrete waste was observed on site near active lots 41-43 during the 3/28/23 inspection.</p> <p>Due to hole in the concrete washout, the washout should be replaced or repaired.</p> <p>Neal Drickey was informed to complete by 10/18/22. Not done as of last inspection. Neal Drickey was reminded on 11/9/22, 11/30/22, 2/03/23</p> | | | | |
| WS 01 | Waste Storage Area | On site | 4/1/2021 | Active | No |
| Current Condition: | <p>Good Condition - Dumpsters were in place on individual lots during the 3/17/22 inspection. General site waste storage will be recommended as necessary. E&A inspector will continue to monitor. Dumpsters were in place on individual lots prior to the 9/26/22 inspection</p> | | | | |
| WT A - H | Wattles | See SWPPP | | Removed | |
| Current Condition: | <p>Removed - Maintenance for wattles will be assigned to individual lots as 3/17/22.</p> | | | | |
| Certification Statement | <p>"I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing violations."</p> | | | | |
| Inspector Signature: |  | | | Reviewed By: |  |