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Engineering Answers

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

E&A - P2020.100.002

Inspector: Ethan Anderson		Stage
Project Name:	Golden Hills Phase II IA - 38142 - 37869	1
For Week Ending:	12/30/2023	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	0.84"				6:50 AM
Monday	0.47"				5:50 PM
Tuesday	0.06"	12/26/2023	Snow 32/28	10:50 AM	
Wednesday	0.00"				
Thursday	0.00"				
Friday	0.00"				
Saturday	0.00"				

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) Grading on the northeast corner of the site (5/11/23).

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) Grading on the northeast corner of the site (5/11/23).

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). ST K removed and area seeded (5/18/23).

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 BMP 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):					
Some maintenance is required in the BMP section.					
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 - 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, 4/19/23, 5/19/23, 6/16/23, 7/13/23, 7/28/23, 9/28/23, 10/13/23, 11/3/23, 11/29/23</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, 4/19/23, 5/19/23, 6/16/23, 7/13/23, 7/28/23, 9/28/23, 10/13/23, 11/3/23, 11/29/23</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. Neal Drickey moved the fuel tank to along Copper Mountain Dr. and installed a berm around it prior to the inspection on 12/5/23.				
IP 1 - 10	Inlet Protection	On Site	3/24/2022	Pending	Yes
Current Condition:	<p>Pending - Neal Drickey sodded multiple lots along Silver Lane prior to the inspection on 11/21/23 and inlet protection is no longer needed on the adjacent inlets.</p> <p>Inlet protection should be installed on the 2 northeastern 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, 4/19/23, 5/19/23, 6/16/23, 7/13/23, 7/28/23, 9/28/23, 10/13/23, 11/3/23, 11/29/23</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.					
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		Removed		
Current Condition:	Removed - Neal Drickey sodded the lot prior to the inspection on 5/25/23.					
Lot 42	Individual Lot	Lot 42		Removed		
Current Condition:	Removed - Neal Drickey sodded the lot prior to the inspection on 5/25/23.					
Lot 43	Individual Lot	Lot 43		Removed		
Current Condition:	Removed - Neal Drickey sodded the lot prior to the inspection on 5/25/23.					
Lot 44	Individual Lot	Lot 44	9/7/2023	Active	No	
Current Condition:	Good Condition - Neal Drickey began excavating the lot prior to the inspection on 9/7/23. Neal Drickey installed silt fence at the front of the lot prior to the inspection on 12/26/23.					
Lot 45	Individual Lot	Lot 45	9/7/2023	Active	No	
Current Condition:	Good Condition - Neal Drickey began excavating the lot prior to the inspection on 9/7/23. Neal Drickey installed silt fence at the front of the lot prior to the inspection on 12/26/23.					
Lot 51	Individual Lot	Lot 51		Removed		
Current Condition:	Removed - Neal Drickey sodded the lot prior to the inspection on 11/21/23.					
Lot 52	Individual Lot	Lot 52		Removed		
Current Condition:	Removed - Neal Drickey sodded the lot prior to the inspection on 11/21/23.					
Lot 53	Individual Lot	Lot 53		Removed		
Current Condition:	Removed - Neal Drickey sodded the lot prior to the inspection on 11/21/23.					
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, 4/19/23, 5/19/23, 6/16/23, 7/13/23, 7/28/23, 9/28/23, 10/13/23, 11/3/23, 11/29/23					
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, 4/19/23, 5/19/23, 6/16/23, 7/13/23, 7/28/23, 9/28/23, 10/13/23, 11/3/23, 11/29/23					
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, 4/19/23, 5/19/23, 6/16/23, 7/13/23, 7/28/23, 9/28/23, 10/13/23, 11/3/23, 11/29/23					
SF A - Q	Silt Fence	See SWPPP	4/1/2021	Active	No	

Current Condition:	Good 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. Ground disturbance is minimal in the northeast quadrant of the site. E&A inspector will continue to monitor.				
ST A - K	Sediment Trap	See SWPPP		Removed	
Current Condition:	Removed - Neal Drickey Removed sediment trap D prior to the inspection on 6/15/23. All Sediment traps have been removed.				
STR	Streets	On Site	4/1/2021	Active	No
Current Condition:	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. Neal Drickey cleaned the streets prior to the inspection on 6/8/23.				
SWPPP Sign	SWPPP Sign	On Site	3/31/2022	Active	No
Current Condition:	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.				
W 1	Straw Wattles	East Side of Copper Mountain Drive	3/29/2022	Active	No
Current Condition:	Good Condition - Neal Drickey installed the wattles along the ROW of Copper Mountain Drive and Silver Lane prior to the 3/29/22 inspection.				
W A - H	Straw Wattles	See SWPPP		Removed	
Current Condition:	Removed- Neal Drickey removed the remaining wattles prior to the inspection on 8/17/23.				
WO 1	Concrete Washout	On site	3/24/2022	Active	No
Current Condition:	Good 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. There appeared to be no hole in the concrete washout during the inspection on 10/12/23. Neal Drickey cleaned out the concrete washout prior to the inspection on 12/12/23.				
WS 01	Waste Storage Area	On site	4/1/2021	Active	Yes
Current Condition:	Fair 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. Debris and construction waste should be cleaned and removed. Neal Drickey was informed to complete by 12/5/23. Not done as of last inspection.				
WT A - H	Wattles	See SWPPP		Removed	
Current Condition:	Removed - Maintenance for wattles will be assigned to individual lots as 3/17/22.				
Certification Statement	"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."				
Inspector Signature:				Reviewed By:	