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Engineering Answers

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

E&A- P2005.030.000
Lot 195 P2005.030.024 (Replat 6)

Inspector: Ethan Anderson		Stage
Project Name:	The Heritage NER110495	1 and 3
For Week Ending:	5/11/2024	
Project Location:	East of 156th Street, North and South of Rainwood Road - Bennington, NE (Douglas County)	68007

	The Heritage	Lot 195/Replat 6		
Grading:	100%	90%		
Sanitary Sewer:	100%	95%		
Storm Sewer:	100%	100%		
Paving:	100%	90%		
Seeding:	100%	35%		
Utilities:	100%	80%		
Overall Development:	98%	45%		

RAIN FALL AMOUNTS	Amount in tenths	Date inspected	Weather Conditions	Time	Storm Event Duration
Week 1					
Sunday:	0.00"				
Monday:	0.01"				
Tuesday:	0.26"	4/16/2024	Cloudy 75/51	1:10 PM	6:35 - 17:55
Wednesday:	0.00"	4/17/2024	Cloudy 65/50	12:30 PM	
Thursday:	0.09"				
Friday:	0.00"				
Saturday:	0.00"				
Week 2					
Sunday:	0.00"				
Monday:	0.00"				
Tuesday:	0.00"	4/23/2024	Sunny 66/49	12:15 PM	
Wednesday:	0.00"				
Thursday:	0.24"				8:55 - 10:55
Friday:	0.91"	4/26/2024	Foggy 67/51	12:00 PM	00:55 - 11:55
Saturday:	0.00"				
Week 3					
Sunday:	0.00"				
Monday:	0.00"				
Tuesday:	0.26"	4/30/2024	Sunny 78/53	1:25 PM	8:15 - 14:35
Wednesday:	0.05"	5/1/2024	Sunny 63/48	11:15 AM	
Thursday:	0.43"	5/2/2024	Cloudy 62/48	3:35 PM	3:35 - 6:55
Friday:	0.00"				
Saturday:	0.81"				1:15 - 3:55
Week 4					
Sunday:	0.00"				
Monday:	0.86"	5/6/2024	Cloudy 72/52	11:05 AM	18:55 to
Tuesday:	0.01"	5/7/2024 & 5/7/2024	Sunny 73/51	1:00 PM	12:55 AM
Wednesday:	0.01"				
Thursday:	0.00"				
Friday:	0.00"				
Saturday:	0.00"				
Week 5					
Sunday:	0.00"				
Monday:	0.00"				
Tuesday:	0.00"				
Wednesday:	0.00"				
Thursday:	0.00"				
Friday:	0.00"				
Saturday:	0.00"				

Complaints: None.

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 completed 7/2006 and site seeded 9/5/2006. Grading began on old school site east of Stargrass Road (11/9/2017). Grading activity on site idle (9/9/2020). Storm and sewer installation began in replat 6 (9/27/2021). Street paving in replat 6 (4/12/2022). Street paving in Rainwood Road (8/9/2022).

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 completed 7/2006 and site seeded 9/5/2006. Grading began on old school site east of Stargrass Road (11/9/2017). Grading activity on site idle (9/9/2020). Storm and sewer installation began in replat 6 (9/27/2021). Street paving in replat 6 (4/12/2022). Street paving in Rainwood Road (8/9/2022).

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

Wetlands Mitigation Seeding (5/31/2006), Slopes Seeded/Matted (8/30/2006), Temp. Seeded (9/5/2006), Re-Seeded 5/21/2007, Re-Seeded ROW on 9/5/2007 & 11/14/2007, Erosion seeded in various areas (4/2009), Old Basin 5 was seeded and matted (5/2/2012). The areas that were disturbed when SB 3 and 5 were closed has been seeded (9/10/2016). Area surrounding SB#4 has been seeded (5/22/2018). Stub road at the end of N 149th Street seeded and matted (9/8/2020). Replat 6 was temp seeded (8/9/2021). Rainwood Road ROW and Basin seeded/matted (9/12/2022). Erosion matting was installed along side the riprap under Rainwood road and IP5 (4/17/2023). The entire site was seeded (6/20/23).

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?

No, 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.

Yes

Create Corrective Action?

N/A

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?

Yes

Create Corrective Action?

N/A

Is dust associated with the construction activity adequately controlled on the site?

Yes

Create Corrective Action?

N/A

Comments:

Comments:

1.) Site was active for home building during the most recent inspection. The Rainwood Road project was inactive during the most recent inspection.
2.) SB 4 is being partially closed to accommodate the dirt from the grading of the new area as of 11/9/17. The inspector will continue to monitor its effectiveness. The surrounding area is primarily built out so the remaining basin can accommodate the flow coming from the adjacent lots. The basin was working effectively as of the 8/13/18 inspection.


Findings / Corrective Actions (Date):

Findings / Corrective Actions (Date):

1.) Some maintenance is required in the BMP section.
2.) The low-lying area at the southeast end of Rainwood Road in Outlot G has a large section that is being eroded and undermining the matting. E&A Inspector informed the SID Department and E&A engineers to repair, seed and re-matt the slope by 4/17/2023. E&A inspector will update the report when more information is known. Not done as of last inspection.

Unique Name	Type	Location	Projected Install Date	Status	Maintenance
CE 1	Construction Entrance	Intersection of Rosewood and Rainwood Road		Removed	
Current Condition:	Removed - A construction entrance is no longer necessary due to paving prior to the inspection on 8/8/23.				
CW 1	Concrete Washout	Lot 20		Removed	
Current Condition:	Removed - Boyer Young cleaned out and removed the concrete washout prior to the 9/26/15 inspection.				
CW 2	Concrete Washout	Rainwood Road		Removed	
Current Condition:	Removed - An unknown contractor removed the concrete washout prior to the 5/1/24 inspection.				
IF 1	Inlet Filter	Rosewater Prky and Chicory St.		Removed	
Current Condition:	Removed - E&A inspector removed the inlet filter during inspection on 4/15/17.				
Lot 17	Individual Lot	Lot 17		Removed	
Current Condition:	Removed - Metro Homes sodded the lot prior to the inspection on 6/11/21.				
Lot 20	Individual Lot	Lot 20		Removed	
Current Condition:	Removed - Story Homes sodded the lot prior to the inspection on 6/26/21.				
Lot 22	Individual Lot	Lot 22		Removed	
Current Condition:	Removed - Metro Homes sodded the lot prior to the 6/7/22 inspection.				
Lot 24	Individual Lot	Lot 24		Removed	
Current Condition:	Removed - Story Homes sodded the lot prior to the 11/11/21 inspection.				
Lot 25	Individual Lot	Lot 25		Removed	
Current Condition:	Removed - Metro Homes sodded the lot prior to the inspection on 6/11/21.				
SF 6	Silt Fence	SB 5		Removed	
Current Condition:	Removed - Commercial Seeding removed the silt fence prior to the 10/9/18 inspection.				
SF 7	Silt Fence	SB 3		Removed	

Current Condition:	Removed - SF 7 changed to lot level item (lots 5 and 6) as of 5/15/18.				
SF 8	Silt Fence	Rainwood Road		Removed	
Current Condition:	Removed - Boyer Young installed a silt fence check in front of Rainwood Road prior to 11/23/2016. Silt Fence was repaired prior to the 8/13/18 inspection. Boyer Young removed the silt fence prior to the 10/23/18 inspection.				
SF 9	Silt Fence	The perimeter of the newly graded area		Removed	
Current Condition:	Removed - Commercial Seeding fixed all silt fence on site prior to the inspection on 9/27/21. SF 9 is now part of Replat 6 SF 1 and SF 2.				
SB 3	Sediment Basin	South of Wild Indigo St and Prairie Star St.		Removed	
Current Condition:	Removed - The basin was closed prior to the 8/24/16 inspection.				
SB 4	Sediment Basin	South of 149th Dead End	11/14/2005	Active	No
Current Condition:	Good Condition- 44% Filled - Roth Enterprise cleaned off the risers prior to the 7/7/16 inspection. Dustin Roth removed southern riser and removed dirt to restore drainage prior to inspection on 7/2/18.				
SB 5	Sediment Basin	Southwest corner of Rosewater Pkwy and North H.W.S Cleveland Blvd		Removed	
Current Condition:	Removed - The basin was closed prior to the 8/24/16 inspection.				
STR	Street Cleaning	Entire Site	2/26/2007	Active	No
Current Condition:	Good Condition - Story Homes cleaned the street in front of Lot 24 prior to the inspection on 11/11/21. Metro Homes cleaned the street in front of Lot 22 prior to the 3/14/22 inspection. Minino Homes cleaned 149th Street prior to the 4/12/22 inspection. Minino Homes cleaned 149th Street prior to the 6/7/22 inspection.				
Replat 6					
CE 1	Construction Entrance	Southwest corner		Removed	
Current Condition:	Removed - Mark Hopkins paved the construction entrance prior to the inspection on 8/22/22.				
CE 2	Construction Entrance	Northeast corner	5/27/2021	Active	No
Current Condition:	Good Condition - 85% effective - Mark Hopkins installed a construction entrance prior to the inspection on 5/24/22.				
CW 1	Concrete Washout	On site	8/10/2023	Pending	Yes
Current Condition:	<p>Pending -</p> <p>A concrete washout should be installed when site is active for concrete installation.</p> <p>Landmark Homes and Marque Custom Builders was informed to complete by 8/15/23. Not done as of last inspection. Landmark Homes was reminded on 9/19/23, 11/9/23, 1/2/24, 4/9/24</p>				
D 1	Diversion Ditch	South of SB 4		Removed	
Current Condition:	Removed - Mark Hopkins removed the diversion during paving prior to the 5/17/22 inspection.				
EM 1 - 2	Erosion Control Matting	See Rainwood Rd SWPPP Map	9/12/2022	Active	No
Current Condition:	Good Condition - Bluffs Paving seeded and matted the ROW of Rainwood Road and the basin to the south of Rainwood prior to the inspection on 9/12/22.				
FT 1	Fuel Tank	On site		Removed	
Current Condition:	Removed - JBG installed the fuel tank on site prior to the inspection on 11/22/21. JBG removed the fuel tank from the site prior to the inspection on 12/6/21. Mark Hopkins placed a double-walled fuel tank on site prior to the inspection on 9/26/22.				
IP 1 - 2	Inlet Protection	See Rainwood Rd SWPPP Map	8/9/2022	Active	No
Current Condition:	Good Condition - Commercial Seeding installed inlet protection prior to the inspection on 6/20/23. Commercial Seeding cleaned the inlet filter prior to the inspection on 2/20/24.				
IP 3 - 4	Inlet Protection	Along Hibbs st	4/3/2023	Active	No
Current Condition:	Good Condition - Commercial Seeding installed inlet protection prior to the inspection on 6/20/23. Commercial Seeding cleaned the inlets prior to the inspection on 10/17/23. Commercial Seeding cleaned the inlet filter prior to the inspection on 2/20/24.				
IP 5	Inlet Protection	Along Hibbs st	4/3/2023	Active	No
Current Condition:	Good Condition - Commercial Seeding installed inlet protection prior to the inspection on 6/20/23. Commercial Seeding cleaned the inlets prior to the inspection on 10/17/23. Commercial Seeding cleaned the inlet filter prior to the inspection on 2/20/24.				
Lot 10	Individual Lot	Lot 10	4/9/2024	Active	Yes
Current Condition:	<p>Fair Condition - Landmark Homes installed a silt fence at the rear corner of the lot prior to the inspection on 4/9/24. Landmark Homes was excavating the lot prior to the inspection on 4/9/24. Dirt piles were observed in the ROW during the inspection on 4/9/24. E&A inspector will monitor for removal of dirt piles.</p> <p>1.) Wattles should be installed at front of the lot. 2.) Silt fence at rear if full and should be cleaned out and repaired.</p> <p>1.) Landmark Homes was informed to complete by 4/16/24. Not done as of last inspection. 2.) Landmark Homes was informed to complete by 5/7/24. Not done as of last inspection.</p>				
Lot 11	Individual Lot	Lot 11		Removed	
Current Condition:	Removed - Landmark Homes sodded the lot prior to the inspection on 4/23/24.				
Lot 12	Individual Lot	Lot 12	7/11/2023	Pending	Yes
Current Condition:	<p>Pending - Marque Custom Builders was excavating the lot prior to the inspection on 7/11/23. Marque Custom Builders cleaned and removed the concrete waste prior to the inspection on 10/17/23. Marque Custom Builders scraped the streets prior to the inspection on 1/16/24.</p> <p>Wattles should be installed or lot sodded/stabilized.</p> <p>Marque Custom Homes was informed to complete by 4/16/24. Not done as of last inspection.</p>				
Lot 24	Individual Lot	Lot 24	8/22/2023	Pending	Yes

Current Condition:	Pending - Marque Custom Builders was excavating the lot prior to the inspection on 8/22/23. Marque Custom Builders scraped the streets prior to the inspection on 1/16/24. Marque Custom Builders will sod and stabilize the lot when weather allows. Marque Custom Builders removed the dirt piles prior to the inspection on 3/12/24. Wattles should be installed or lot sodded/stabilized. Marque Custom Homes was informed to complete by 4/16/24. Not done as of last inspection.				
Lot 25	Individual Lot	Lot 25		Removed	
Current Condition:	Removed - Landmark Homes sodded the lot prior to the inspection on 4/23/24.				
PT 01	Portable Toilet	Adjacent to CE 2		Removed	
Current Condition:	Removed - Mark Hopkins removed the portable toilet prior to the 3/14/22 inspection.				
PT X	Portable Toilet	On Site	2/6/2023	Active	No
Current Condition:	Removed - Mark Hopkins removed the portable toilet prior to the inspection on 4/10/23.				
RR 1	Riprap	See Rainwood Rd SWPPP Map	8/9/2022	Active	No
Current Condition:	Good Condition - Riprap will be installed at the east end of Rainwood Road after paving is complete.				
RR 2	Riprap	STA 3+19.29	4/17/2023	Active	No
Current Condition:	Good Condition - Storm Contractor installed riprap at the outfall that is under Rainwood Road prior to inspection on 4/17/23.				
RR 3	Riprap	F5	4/17/2023	Active	No
Current Condition:	Good Condition - Storm Contractor installed riprap at the inlet outfall prior to inspection on 4/17/23.				
SF 1	Silt Fence	East edge of site	5/27/2021	Active	Yes
Current Condition:	Fair Condition - Mark Hopkins installed prior to the inspection on 5/27/21. Commercial Seeding extended the silt fence west along the basin prior to the inspection on 9/27/21. Mark Hopkins repaired the silt fence prior to the inspection on 12/6/21. Mark Hopkins reinstalled the silt fence where removed on the western side of SB 4 prior to the inspection on 9/26/22. Due to paving as of the 3/20/23 inspection, silt fence reinstallation along the drainage ditch is no longer recommended. An unknown contractor installed EM where the SF was damaged prior to the inspection on 5/23/23. Commercial Seeding repaired the silt fence prior to the inspection on 6/13/23. Commercial Seeding repaired the silt fence prior to the inspection on 10/24/23. Tim Geis removed the remaining silt fence from around the basin prior to the inspection on 10/31/23. E&A inspector repaired the silt fence during the inspection on 11/13/23. E&A inspector repaired the silt fence during the inspection on 12/5/23. E&A inspector repaired the silt fence during the inspection on 1/2/24. E&A inspector repaired the silt fence prior to the inspection on 3/19/24. Silt fence should be repaired in multiple locations. Marque Custom Homes was informed to complete by 4/16/24. Not done as of last inspection.				
SF 2	Silt Fence	Southern Perimeter	5/27/2021	Active	No
Current Condition:	Good Condition - Mark Hopkins installed the silt fence prior to the inspection on 5/27/21. Silt fence was previously identified as a part of SF 1. Commercial Seeding repaired parts of the silt fence prior to the inspection on 6/13/23. A section of the silt fence was removed in an area that is being regularly used as an access point for the site near the pond prior to the inspection on 1/9/24. E&A inspector will monitor and make recommendations as necessary.				
SF 01 - 05	Silt Fence	See Rainwood Rd SWPPP Map		Removed	
Current Condition:	Removed - Tim Geis removed the silt fence prior to the inspection on 9/12/23.				
STR	Street Cleaning	Entire Site	3/6/2023	Active	No
Current Condition:	Good Condition - Commercial Seeding cleaned the streets prior to the inspection on 6/27/23.				
SWPPP Sign	Signs	1 sign on site	8/19/2008	Active	No
Current Condition:	Good Condition - E&A inspector installed the SWPPP sign on 8/19/08 at 156th and Bennington Blvd				
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: 