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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

Inspector: Joe Manning		Stage
Project Name:	The Heritage NER110495	3
For Week Ending:	6/10/2023	
Project Location:	East of 156th Street, North and South of Rainwood Road - Bennington, NE (Douglas County)	68007

	The Heritage	Replat 6		
Grading:	100%	90%		
Sanitary Sewer:	100%	95%		
Storm Sewer:	100%	80%		
Paving:	100%	90%		
Seeding:	0%	35%		
Utilities:	2%	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:	0.00"				
Tuesday:	0.00"	5/16/23 and 5/16/23	Cloudy 77/56	11:30 AM	
Wednesday:	0.00"				
Thursday:	0.00"				
Friday:	0.00"				
Saturday:	0.00"				
					Week 2
Sunday:	0.00"				
Monday:	0.00"				
Tuesday:	0.00"	5/23/2023	Sunny 83/59	10:00 AM	
Wednesday:	0.00"				
Thursday:	0.00"				
Friday:	0.00"				
Saturday:	0.00"				
					Week 3
Sunday:	0.00"				
Monday:	0.00"				
Tuesday:	0.00"	5/30/2023	Sunny 92/66	11:30 AM	
Wednesday:	0.00"				
Thursday:	0.07"				
Friday:	0.00"				
Saturday:	0.02"				
					Week 4
Sunday:	0.26"				1:35 PM - 7:55 PM
Monday:	0.00"	6/5/2023	Sunny 88/63	2:15 PM	
Tuesday:	0.00"	6/6/2023	Sunny 90/62	11:20 AM	
Wednesday:	0.00"				
Thursday:	0.00"				
Friday:	0.28"				11:55 AM - 7:55 PM
Saturday:	0.44"				6:15 PM - 7:55 PM
					Week 5
Sunday:	N/A				
Monday:	N/A				
Tuesday:	N/A				
Wednesday:	N/A				
Thursday:	N/A				
Friday:	N/A				
Saturday:	N/A				

Complaints:

On 5/16/23 E&A received complaint from lot 113 about stabilization of outlot G and the north and south sides of rainwood road. E&A inspector reminded SID department to repair.

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).					
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?					
Yes					
Create Corrective Action?					
N/A					
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 inactive for home building during the most recent inspection. Replat 6 was active for utility installation 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.) A majority of Replat 6 has been inactive for longer than 14 days. Disturbed areas throughout the site should be temporarily stabilized and construction traffic should be limited to paved / rocked areas where possible. Mark Hopkins and Steve Minino were informed to complete by 5/31/22. Not done as of last inspection. Bluffs Paving and Japp Bros were reminded on 6/24/22, 8/3/22, 9/15/22, 11/22/22, 3/07/23, 4/10/23, 5/4/23, 5/30/23					
3.) The lowlying 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 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	11/21/2017	Pending	No
Current Condition:	Pending - The inspector will recommend an entrance if it becomes necessary as of the 11/21/2017 inspection.				
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	Lot 162		Removed	
Current Condition:	Removed - Boyer Young cleaned out and removed the concrete washout prior to the 9/26/15 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 - The silt fence was repaired by Commercial Seeding prior to the inspection on 4/5/18. Commercial Seeding installed silt fence around the existing dirt stock pile prior to the inspection on 3/5/18. The silt fence in the SE corner was repaired prior to inspection on 4/27/18. Silt fence was repaired and sediment was cleaned up from adjacent lots prior to the 8/13/18 inspection. Commercial Seeding repaired and cleaned out the silt fence prior to the 11/6/18 inspection. Commercial Seeding backfilled and repaired the silt fence prior to the 6/24/19 inspection. E&A inspector retied the silt fence where it was damaged during the 8/12/19 inspection. Jerry Banks repaired/cleaned out/trenched in the silt fence in multiple locations prior to the inspection on 6/10/20. Centennial Enterprises trenched in and backfilled the undermined silt fence prior to the inspection on 8/11/20. JBG reinstalled the norther run of silt fence prior to the inspection on 6/21/21. Commercial Seeding fixed all silt fence on site prior to the inspection on 7/26/21. 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- 41% 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.				
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	Pending	Yes
Current Condition:	Pending - Inlet protection should be installed on both inlets along Rainwood Rd. Mark Hopkins was informed to complete by 4/10/23. Not done as of last inspection. Mark Hopkins was reminded on 5/4/23, 5/31/23				
IP 3 - 4	Inlet Protection	Along Hibbs st	4/3/2023	Pending	Yes
Current Condition:	Pending - Inlet protection should be installed on both inlets along Hibbs st. Mark Hopkins was informed to complete by 4/10/23. Not done as of last inspection. Mark Hopkins was reminded on 5/4/23, 5/31/23				
IP 5	Inlet Protection	Along Hibbs st	4/3/2023	Pending	Yes
Current Condition:	Pending - Inlet protection should be installed. Mark Hopkins was informed to complete by 4/10/23. Not done as of last inspection. Mark Hopkins was reminded on 5/4/23, 5/31/23				

PT 01	Portable Toilet	Adjacent to CE 2		Removed	
Current Condition:	Removed - Mark Hopkins installed and secured a portable toilet prior to the inspection on 9/27/21. Portable toilet was moved to the east side of CE 1 prior to the 11/11/21 inspection. Mark Hopkins secured the portable toilet prior to the inspection on 12/6/21. 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 and Steve Minino removed the portable toilet prior to the inspection on 10/17/22. A portable toilet was placed on site prior to the inspection on 2/06/23. 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:	<p>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.</p> <p>1.) Silt fence should be repaired where fallen in multiple locations along the northern perimeter. 2.) Silt fence should be cleaned out where full south of Outlot B.</p> <p>1.) Mark Hopkins and Steve Minino were informed to complete by 5/31/22. Not done as of last inspection. Bluffs Paving and Japp Bros were reminded on 6/24/22, 8/3/22, 9/15/22, 11/22/22, 3/07/23, 4/3/23, 5/4/23, 5/31/23 2.) Bluffs Paving and Japp Bros were informed to complete by 6/28/22. Not done as of the last inspection. Bluffs Paving and Japp Bros were reminded on 8/3/22, 9/15/22, 11/22/22, 3/07/23, 4/3/23, 5/4/23, 5/31/23</p>				
SF 2	Silt Fence	Southern Perimeter	5/27/2021	Active	Yes
Current Condition:	<p>Fair 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.</p> <p>Silt fence should be repaired where fallen.</p> <p>Mark Hopkins and Steve Minino were informed to complete by 8/9/22. Not done as of the last inspection. Mark Hopkins and Steve Minino were reminded on 9/15/22, 11/22/22, 3/07/23, 4/3/23, 5/4/23, 5/31/23</p>				
SF 01 - 05	Silt Fence	See Rainwood Rd SWPPP Map	6/14/2022	Active	No
Current Condition:	Good Condition - Bluffs Paving and Japp Bros installed SF 1, SF 2, and SF 5 around the disturbed area for the Rainwood Road project prior to the 6/14/22 inspection. E&A inspector will monitor for installation of SF 3 and SF 4.				
STR	Street Cleaning	Entire Site	3/6/2023	Active	Yes
Current Condition:	<p>Fair Condition -</p> <p>Streets throughout the site should be cleaned.</p> <p>Mark Hopkins was informed to complete by 3/07/23. Not done as of the last inspection. Mark Hopkins and Steve Minino were reminded on 4/3/23, 5/4/23, 5/31/23</p>				
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:	<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:	