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E & A CONSULTING GROUP, INC.

Engineering Answers

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

E&A- P2014.577.001

Inspector: Colton Reeder		Stage
Project Name:	Shelby High School NER115160	2
For Week Ending:	10/14/2017	
Project Location:	Walnut St. and Washington St, Shelby, NE (Polk County)	68662

Grading:	100%			
Sanitary Sewer:	100%			
Storm Sewer:	100%			
Paving:	100%			
Seeding:	70%			
Utilities:	100%			
Overall Development:	94%			

RAIN FALL AMOUNTS	Amount in tenths	Date inspected	Weather Conditions	
				Week 1
Sunday:	0.16"			
Monday	1.23"			
Tuesday	0.05"	09/26/17	64/55 Rain	
Wednesday	0.00"			
Thursday	0.00"			
Friday	0.00"			
Saturday	0.00"			
				Week 2
Sunday:	0.46"			
Monday	0.17"			
Tuesday	0.40"			
Wednesday	0.00"			
Thursday	0.40"			
Friday	1.10"			
Saturday	0.93"	10/07/17	73/51 Rain	
				Week 3
Sunday:	0.00"			
Monday	0.21"			
Tuesday	0.43"			
Wednesday	0.00"			
Thursday	0.00"			
Friday	0.00"			
Saturday	0.01"			

Complaints:	None
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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 is active (6/11/15) Phase 1 was complete prior to the 7/18/15 inspection. The grading of Phase 2 started prior to the 11/3/15 inspection. Grading of Phase 2 has been completed. Minor grading will be completed at a later date (3/7/16). BD Construction completed grading the parking lot (8/1/16)

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 is active (6/11/15). Phase 1 was complete prior to the 7/18/15 inspection. The grading of Phase 2 started prior to the 11/3/15 inspection. Grading of Phase 2 has been completed. Minor grading will be completed at a later date (3/7/16). BD Construction completed grading the parking lot (8/1/16).

What temporary or permanent stabilization measures listed in this section are being implemented?
 Existing Vegetation. The area West and East of the football field and track were seeded or sodded(11/3/15). Paving of the school addition has started (4/28/17). Parking lot islands and drainage easement along south side of football field stabilized (8/14/17). Area around the playground and basketball court on the east side of the school was sodded (8/30/17).

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- sediment was deposited in the drainage along the south side of the site.

CHECKLIST QUESTIONS:
Are waste materials (concrete, construction material, hazardous, etc.) being managed properly?
 No, See Findings/Corrective Actions Section.

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

Comments:
 Comments:
1) An Email was received from Doug Walter asking what percentage of the project area needs to be stabilized in order to stop performing erosion control inspections. Zach Jilek informed Doug Walter that the site needs 70% density of permanent ground cover to meet closure requirements. There are also still BMP's that need removed to close the project after stabilization has taken place. The current estimated ground cover is around 50% as of the inspection on 10/07/17.

Findings / Corrective Actions (Date):
 Findings / Corrective Actions (Date):
 1.) See BMP section for required maintenance.
 2.) The area disturbed along the west end of the athletic field needs to be seeded and stabilized. BD Construction was informed to complete by 1/30/17. Not done as of last inspection. BD Construction was reminded on 3/21/17, 3/30/17, 4/16/17, 5/1/17, 5/24/17, 6/28/17, 8/20/17, 9/18/17.
 3.) The sediment that has deposited in the drainage way along the south side of the site needs to be cleaned up. BD Construction was informed to complete by 1/30/17. Not done as of the last inspection. BD Construction was reminded on 3/21/17, 3/30/17, 4/16/17, 5/1/17, 5/24/17, 6/28/17, 8/20/17, 9/18/17.
 4.) The area disturbed by utility work in the drainage way to the south of the site needs to be stabilized. BD Construction was informed to complete by 1/30/17. Not done as of the last inspection. BD Construction was reminded on 3/21/17, 3/30/17, 4/16/17, 5/1/17, 5/24/17, 6/28/17, 8/20/17, 9/18/17.
 6.) Detention pond was completed and the area needs to be stabilized. Also a silt fence needs to be installed at the outlet pipe to prevent more runoff to ditch. BD Construction was informed to complete by 5/29/17. A piece of silt fence fabric was installed across the outlet pipe, but was not entrenched or secured. The pond was not stabilized as of the last inspection. BD Construction removed the silt fence from the outfall prior to the inspection on 6/14/17. BD Construction was informed to reinstall silt fence or a bale check at the outfall on 6/28/17 by 7/5/17. Not done as of the last inspection. BD Construction was reminded on 8/20/17, 9/18/17.

Unique Name	Type	Location	Projected Install Date	Status	Maintenance
A1	Silt Fence	Southwest of Football Field		Removed	
Current Condition:	Removed - BD Construction removed the silt fence for final stabilization as of the 9/24/15 inspection.				
A2	Silt Fence	South of Football Field		Removed	
Current Condition:	Removed - The silt fence was removed due to paving in the area as of the 9/15/15 inspection.				
A3	Silt Fence	East of Football Field		Removed	
Current Condition:	Removed - BD Construction removed the silt fence for final stabilization as of the 9/24/15 inspection.				
A4	Silt Fence	Northwest of Football Field		Removed	
Current Condition:	Removed - The silt fence is no longer needed due to paving in the area as of the 9/15/15 inspection.				
A5	Silt Fence	West of Football Field		Removed	
Current Condition:	Removed - BD Construction removed the silt fence for final stabilization as of the 9/24/15 inspection.				
A9	Silt Fence	Southeast side of site		Removed	
Current Condition:	Removed - The silt fence was not needed during construction.				
A10	Silt Fence	Southeast side of site		Removed	
Current Condition:	Silt Fence was removed due to flatness of area and inactivity it will not be re-installed at this time.				
A11	Silt Fence	South side of site		Removed	
Current Condition:	Silt Fence was removed due to completion of parking lot. Silt fence will not be re-installed at this time. BD has been requested to install straw wattles in the draining way in place of removed silt fence.				
A12	Silt Fence	Southwest corner of site	1/30/2017	Pending	Yes
Current Condition:	Pending - The silt fence needs to be reinstalled or stabilize the area. BD Construction was informed to complete by 1/30/17. Not done as of the last inspection. BD Construction was reminded on 3/21/17, 3/30/17, 4/16/17, 5/1/17, 5/24/17, 6/28/17, 8/20/17, 9/18/17.				
A13	Silt Fence	Southwest corner of site	1/30/2017	Pending	Yes
Current Condition:	Pending - The silt fence needs to be reinstalled or stabilize the area. BD Construction was informed to complete by 1/30/17. Not done as of the last inspection. BD Construction was reminded on 3/21/17, 3/30/17, 4/16/17, 5/1/17, 5/24/17, 6/28/17, 8/20/17, 9/18/17.				
A17	Inlet filter	South of existing building		Removed	

Current Condition:	Removed- Area was paved prior to inspection on 5/22/17 by BD Construction.				
A18	Inlet filter	South of existing building		Removed	
Current Condition:	Removed- Area was paved prior to inspection on 5/22/17 by BD Construction.				
A19	Inlet filter	Between building on north side of the site		Removed	
Current Condition:	Pending - Then inlet was removed prior to inspection on 11/14/16.				
A20	Inlet filter	Between building on north side of the site	3/7/2016	Active	No
Current Condition:	Good Condition - BD Construction repaired and paved around the inlet prior to the inspection on 6/14/17. E&A will monitor the need for BMP installation.				
A21	Inlet filter	Between building on north side of the site	7/5/2017	Pending	Yes
Current Condition:	<p>Pending -</p> <p>Inlet protection needs to be installed or the area around the inlet needs to be stabilized.</p> <p>BD Construction was informed to complete by 7/5/17. Not done as of the last inspection. BD Construction was reminded on 8/20/17, 9/18/17.</p>				
A22	Inlet filter	Between building on north side of the site	7/5/2017	Pending	Yes
Current Condition:	<p>Pending -</p> <p>Inlet protection needs to be installed or the area around the inlet needs to be stabilized.</p> <p>BD Construction was informed to complete by 7/5/17. Not done as of the last inspection. BD Construction was reminded on 8/20/17, 9/18/17.</p>				
B	Construction Entrance	Southwest of Football Field		Removed	
Current Condition:	Removed - This entrance is now a permanent entrance for school maintenance crews as of the 1/27/16 inspection.				
B 2	Construction Entrance	South side of existing parking lot		Removed	
Current Condition:	Removed - BD Construction removed the entrance for paving purposes prior to the inspection on 6/14/17.				
B 3	Construction Entrance	Southeast side of site		Active	
Current Condition:	Removed - BD Construction paved the construction entrance prior to inspection on 5/1/17.				
C1	Inlet Protection	Southeast of Football Field		Removed	
Current Condition:	Removed - This BMP is being removed from the report due to the inlet be located in a completed area of the project as of the 3/21/16 inspection.				
C2	Inlet Protection	Northeast of Football Field		Removed	
Current Condition:	Removed - This BMP is being removed from the report due to the inlet be located in a completed area of the project as of the 3/21/16 inspection.				
C3	Bale Check	Northwest of Football Field	1/30/2017	Pending	Yes
Current Condition:	<p>Pending -</p> <p>The bale check needs to be reinstalled due to continued runoff from the athletic field eroding the adjacent drainage way.</p> <p>BD Construction was informed to complete by 1/30/17. Not done as of the last inspection. BD Construction was reminded on 3/21/17, 3/30/17, 4/16/17, 5/1/17, 5/24/17, 6/28/17, 8/20/17, 9/18/17.</p>				
C4	Bale Check	North of B2	7/11/2017	Active	No
Current Condition:	Good Condition - BD Construction installed a straw wattle at the flared end prior to the inspection on 7/11/17.				
C5	Bale Check	Northwest of Football Field		Removed	
Current Condition:	Removed - BD Construction removed the straw wattle due to completion of sodding/stabalization in the area as of the inspection on 8/30/17.				
C6	Bale Check	Northwest of Football Field		Removed	
Current Condition:	Removed - BD Construction removed the straw wattle due to completion of sodding/stabalization in the area as of the inspection on 8/30/17.				
C7	Bale Check	East property line	7/11/2017	Active	No
Current Condition:	Good Condition - BD Construction reinstalled a straw wattle in the drainage near the cemetary prior to the inspection on 7/11/17.				
C8	Bale Check	Northwest of Football Field		Removed	
Current Condition:	Removed - BD Construction removed the straw wattle due to completion of sodding/stabalization in the area as of the inspection on 8/30/17.				
CW	Concrete	On Site		Removed	

Current Condition:	Removed - Due to all major paving being completed a washout is no longer being recommended.				
STR	Streets	On site	In Place	Active	No
Current Condition:	Good Condition - No major signs of track off.				
SWPPP Sign	SWPPP Sign	Southwest of Football Field	7/1/2015	Active	No
Current Condition:	Good Condition - The inspector installed the SWPPP sign on 7/1/15.				
Wattle Check 1	Straw Wattle	Southeast Corners of site		Removed	
Current Condition:	Removed - BD Construction removed the wattle prior to the inspection on 7/27/17.				
Wattle Check 2	Straw Wattle	North west corner of site	7/11/2017	Active	No
Current Condition:	Good Condition - BD Construction installed 2 wattles in the drainage way near the construction trailer prior to the inspection on 7/11/17.				
Wattle Check 3	Straw Wattle	West of entrance B3		Removed	
Current Condition:	Removed - BD Construction removed the straw wattle prior to inspection on 5/22/17.				
Inspector Signature:	<i>Calton R. Reeder</i>			Reviewed By:	<i>[Signature]</i>