AGENDA REGULAR DRAINAGE MEETING NOVEMBER 29, 2017

- 1. Open Meeting
- 2. Approve Agenda
- 3. Approve Minutes
- 4. Approve Claims For Payment

Documents:

12-01-2017 DRAINAGE CLAIMS LIST.PDF

- 5. DD 72 Discuss, With Possible Action, Updates Regarding Project
- 6. DD 41 Discuss, With Possible Action, Updates Regarding Current Project
- 7. DD 77 Discuss, With Possible Action, Updates Regarding Current Project
- 8. DD 78 Discuss, With Possible Action, Repair Summary

Documents:

DD 78 WO 78 REPAIR SUMMARY .PDF

- 9. Other Business
- 10. Adjourn Meeting

Date - 11/27/17 Dr Time - 15:14:49 Publicat	ainage Accounting ion List by Fund/Vendor	Program - DA2101
DD 1 Clapsaddle-Garber Assoc	DD 1	9734.90
	DD 72 DD 72	15256.60 102037.41
DD 86 Clapsaddle-Garber Assoc	DD 86	1084.80
DD 131 McDowell & Sons Contractors	DD 131	1530.00
DD 136 McDowell & Sons Contractors	DD 136	4027.50
DD Jt H-F 1 Total (Hardin) McDowell & Sons Contractors	DD Jt H-F 1 Total (Hardin	1890.00
DD Jt H-F 3-47(Frnkln/Trustee) Franklin Co Auditor	DD Jt H-F 3-47(Frnkln/Tru	11988.96
DD Jt H-F 4-53 (Franklin) Franklin Co Auditor	DD Jt H-F 4-53 (Franklin)	3854.19
DD Jt H-H 2-104 (Hamilton) Hamilton Co Auditor	DD Jt H-H 2-104 (Hamilton	1997.96
DD Jt H-H 105-216 (Hamilton) Hamilton Co Auditor	DD Jt H-H 105-216 (Hamilt	1038.84
DD 55 Div 3 Lat 9 Hands On Excavating LLC.	DD 55 Div 3 Lat 9	22300.49
DD 55 Div 3 Lat 9A Clapsaddle-Garber Assoc	DD 55 Div 3 Lat 9A	1122.50
	DD 55 Div 3 Lat 9C DD 55 Div 3 Lat 9C	9947.00 44096.73
DD 169 (1944 Mutual DD) Hardin County Auditor	DD 169 (1944 Mutual DD)	700.00
Grand Total		232607.88

End of Report



Drainage Work Order Request For Repair Hardin County

Date	5	/11/2015								.Work Orde	er# <u>78</u>
District #	78	the trace to the first the state of most be followed:	Late	ral	Mai	n					
Township	Jacks	son	edbart	Section	35	Twp	88	Rge	20	Qtr Sec	SW1/4
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Available for	Repair N	low? ⊌Yes □No)	8				Date Ava	ilable	F-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	tgroup to the model limit of the December of
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Potential We	tlands?	□Yes-Repair existir	ng tile only			No-Repa	ir and	l maintair	n tile		
Repaired By:			,	on the state of th							
Date:				The state of the s							
Please send s	tatemer	nt for services to:		Hard	in Coun	ty Audito	r's Oi	ffice			
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Fax (6	41) 939-	8245		Eldor	a, IA 50	627					
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Drainage District:

#78

Repair Summary:

- Per recommended actions of previous report, District Trustees requested replacement of the single wall HDPE main tile and removal of trees in Section 35, Township 88 North, Range 20 West.
- Prior to CGA being on-site, contractor removed trees and stumps identified as impacting the Main tile.
- Exposed Main tile in multiple locations and televised from upstream limit of repair (GPS #525). Findings from said televising are tabulated in attached sheet and summarized in daily report (9/06/2017).
- Excavated to structurally sound 15" VCP tile on downstream end of repair, removed existing single wall HDPE tile, and graded excavation with 4"+ thick bedding rock. Affixed 15" non-perforated dual wall HDPE to existing VCP tile with concrete collar. Continued installing 15" non-perforated dual-wall HDPE along flowline in upstream direction and installed elbow for directional change with 15" HDPE bands over joints. Continued replacement until reaching location of televising insertion point (edge of cropped field to the north) and connected to existing single wall HDPE.
- Backfilled as work progressed with 1" bedding rock and tamped said rock around circumference of tile.
- After bedding rock, backfilled with on-site soil and bucket compacting soil in trench.
- Removed excavated 15" single wall HDPE tile from site.

<u>Contractor Time and Materials (spent while CGA was on-site):</u>

See attached Tabulated Contractor Time and Materials Sheet.

<u>Additional Actions Recommended:</u>

All main tile in limits mentioned in recommended actions of previous report were replaced. However, there is an additional $150'\pm$ of single wall HDPE upstream that is deformed and splitting which also needs replaced. It is recommended that the District Trustees authorize replacement of the same once crops are out.



Tabulated Contractor Time and Materials

5	55515						
Date	E Totals	9/6/2017	9/7/2017	9/8/2017	9/11/2017	9/12/2017	9/13/2017
Workman (hrs)	95.7	16.3	13.3	15.0	15.3	20.0	15.8
Mini Excavator (hrs)	31.0			7.5	7.7	7.7	8.2
Backhoe (hrs)	(45.3	7.3	7.0	7.5	7.7	7.7	8.2
CCTV Truck (hrs)	2.3	2.3					
CCTV Inspection (ft)	218.0	218.0					
Concrete Truck (hrs)	0.0						
Engineering Fabric & Wire Mesh (# Collars)	1.0		1.0				
Pickup & Dump Trailer (hrs)	7.7						7.7
Dump Truck (hrs)	32.8	6.7	6.3	7.5	7.7	4.8	
Engineering Fabric (ft)	10.0		5.0				5.0
Wire Mesh (ft)	0.0						
Bedding Rock (tons)	85.3	18.7	14.8		15.4	31.5	4.9
Quick Drying Concrete (lbs)	0.009		0.009				
Construction Adhesive (tubes)	0.0						
15" Non- Perforated Dual Wall HDPE (ft)	208.4		22.7	19.6	59.0	78.5	28.6
15" HDPE Elbow (#)	1.0		1.0				
15" HDPE Bands (#)	3.0		2.0				1.0
Crop Damage (acres)	0.21						0.21



Tabulated Defects

	72	9/6/2017	0	29	0	0	29	
Upstream Downstream	146	9/6/2017	2	9	H	Н	0	
Total	218		2	35	Н	T	29	
	Total Length Televised (ft)	Date:	Top crack (ft)	Debris (ft)	Offset Joint (#)	Soil/voids visible in offset joint (#)	Roots (ft)	

