



**BOARD OF TRUSTEES
Regular Meeting
December 21, 2016
7:00 p.m.**

1. CALL MEETING TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ROLL CALL
4. APPROVAL OF AGENDA
5. PRESENTATIONS
6. CLOSED SESSION
7. PUBLIC HEARINGS
8. PUBLIC COMMENT: Restricted to three minutes regarding issues on this agenda
9. REPORTS/BOARD COMMENTS
 - A. Current List of Boards and Commissions
10. CONSENT AGENDA
 - A. Communications
 - B. Minutes – December 5, 2016- regular meeting
 - C. Bills
 - D. Payroll
 - E. Meeting Pay
 - F. Fire Reports
 - G. 2.4 Financial Planning / Budgeting
 - H. 2.5.10 Cash Flow Ratio
11. NEW BUSINESS
 - A. Discussion/ Action (Kim Smith): Consider approval of the purchase of jackhammer attachment and pins for 2013 Cat Backhoe from Michigan Cat
 - B. Discussion / Action (Board of Trustees): 3.0 Global Governance Commitment
12. MANAGER COMMENTS
13. EXTENDED PUBLIC COMMENT: Restricted to 5 minutes regarding any issue
14. FINAL BOARD MEMBER COMMENT
15. ADJOURNMENT



Board Expiration Dates

Planning Commission Board Members (9 Members)			
#	F Name	L Name	Expiration Date
1-Chair	Phil	Squatrito	2/15/2017
2-BOT Representative	Norm	Woerle	11/20/2020
3	Rick	McGuirk	2/15/2016 ¹
4	Brandon	LaBelle	2/15/2017
5	Erik	Robinette	2/15/2018
6	Alex	Fuller	2/15/2017
7	Dwayne	Strachan	2/15/2018
8	Bryan	Mielke	2/15/2018
9	John	Zerbe	2/15/2018
Zoning Board of Appeals Members (5 Members, 2 Alternates)			
#	F Name	L Name	Expiration Date
1-Chair	Tim	Warner	12/31/2016
2-PC Representative	Bryan	Mielke	2/18/2018
3	Bill	McCraken	12/31/2016
4	Mike	Darin	12/31/2016
5	Citizen at Large		12/31/2018
Alt. #1	Jake	Hunter	12/31/2016
Alt. #2	Paul	Gross	2/15/2018
Board of Review			
#	F Name	L Name	Expiration Date
1	James	Thering	12/31/2016
2	Ronald	Mclvor	12/31/2016
3	Brian	Neyer	12/31/2016
Citizens Task Force on Sustainability			
#	F Name	L Name	Expiration Date
1	Laura	Coffee	12/31/2016
2	Mike	Lyon	12/31/2016
3	Mike	Walton	12/31/2016
4	Phil	Mikus	11/20/2020
Construction Board of Appeals			
1	Colin	Herron	12/31/2017
2	Richard	Klumpp	12/31/2017
3	Andy	Theisen	12/31/2017

¹ Per section 5.003 of the ordinance, member holds office until successor is appointed

CHARTER TOWNSHIP OF UNION
Board of Trustees
Regular Meeting

A regular meeting of the Charter Township of Union Board of Trustees was held on December 5, 2016 at 7:00 p.m. at Union Township Hall.

Meeting was called to order at 7:00 p.m.

Roll Call

Supervisor Gunning, Clerk Cody, Treasurer Rice, Trustees B. Hauck, Lannen, Mikus and Woerle

Others Present

Mark Stuhldreher, Pat DePriest, Sherrie Teall, and Jennifer Loveberry

Approval of Agenda

Woerle moved **Rice** supported to approve the agenda with changes: move Closed Session after Final Board Member Comment. **Vote: Ayes: 7 Nays: 0. Motion carried.**

Presentations

No Presentations.

Public Hearings

No Public Hearings.

Public Comment - open 7:05 p.m.

Bryan Mielke, 3791 GreenAcres Dr. - Congratulations to the New Board and thanked them for appointing him to the Planning Commission. Commented that Policy Governance is very beneficial to the Township.

Reports/Board Comments

Cody – Comments made regarding Clerk’s printer.

Consent Agenda

- A. Communications
- B. Minutes November 21, 2016 – Regular Meeting
- C. Payroll
- D. Bills
- E. Meeting Pay
- F. Fire Reports

Cody moved **Lannen** supported to approve the consent agenda with minor corrections to the minutes. **Vote: Ayes: 7 Nays: 0. Motion carried.**

BOARD AGENDA

A. Consider and set the 2017 Board of Trustees Meeting Dates

Cody moved **Lannen** supported to approve the proposed Board of Trustees meeting dates for the 2017 calendar year in accordance with the Open Meetings Act as presented with change made to December 2017 Meeting date. **Vote: Ayes: 7 Nays: 0. Motion carried.**

B. Consider and Adoption of the 2017 Appropriation Resolution

Lannen moved **Mikus** supported to approve the adoption of the FY 2017 Appropriations Resolution for the following funds: General, Fire, Special Assessment, East DDA, West DDA, West DDA Debt Service, Tribal 2%, Sewer and Water as amended. **Roll Call Vote: Ayes: Supervisor Gunning, Clerk Cody, Treasurer Rice, Trustees B. Hauck, Lannen, Mikus, and Woerle. Nays: 0. Motion carried.**

Gunning moved **Woerle** supported to confirm the approval of the following: 2017 Township Fee Schedule, General Operating at 1.0000 mills and Fire mills at 2.0000 mills, 2017 Elected Officials Salaries and per meeting/diem are included in the approval of the 2017 Appropriation Resolution. **Roll Call Vote: Ayes: Supervisor Gunning, Clerk Cody, Treasurer Rice, Trustees B. Hauck, Lannen, Mikus, and Woerle. Nays: 0. Motion carried.**

C. Consideration of Policy Governance

Woerle moved **Lannen** supported to approve the continuation of the Policy Governance by reaffirming the commitment as it currently is in the Policy Manual. **Vote: Ayes: 7 Nays: 0. Motion carried.**

MANAGER COMMENTS

Shared Boards and Commission openings posted on website and article was in the Morning Sun, attending CMU Strategic Planning on December 14, 2016 and invited Trustees to sign up (if available), urged Trustees that still need to set up email to contact Ryan @ CMS, tax bills went out last week, and Board of Review meets in December.

EXTENDED PUBLIC COMMENT - Open 9:11 p.m.

No Comments.

FINAL BOARD MEMBER COMMENTS

Gunning – Commented on using Social Media as a way of communication.

Woerle – Suggested using Supervisor's office as a universal meeting area for all Trustees.

Rice – Attended training.

Mikus – Shared Policy Governance value to the Township.

Lannen – Questions to the Clerk regarding Michigan Election recount.

B. Hauck – Still absorbing Trustee duties.

Cody – Appointed Lisa Bergy as her Deputy.

Closed Session

9:26 p.m. Lannen moved **Cody** supported that the Board of Trustees meet in closed session to consult with Township Attorney regarding pending litigation. **Roll Call Vote: Ayes: Supervisor Gunning, Clerk Cody, Treasurer Rice, Trustees B. Hauck, Lannen, Mikus, and Woerle. Nays: 0. Motion carried.**

10:05 p.m. Mikus moved **Rice** supported that the Board of Trustees come out of closed session. **Roll Call Vote: Ayes: Supervisor Gunning, Clerk Cody, Treasurer Rice, Trustees B. Hauck, Lannen, Mikus, and Woerle. Nays: 0. Motion carried.**

ADJOURNMENT

Woerle moved **Rice** supported to adjourn the meeting at 10:06p.m. **Vote: Ayes: 7 Nays: 0. Motion carried.**

APPROVED BY:

Lisa Cody, Clerk

Ben Gunning, Supervisor

(Recorded by Jennifer Loveberry)

Check Date	Bank	Check	Vendor	Vendor Name	Description	Amount
Bank 101 POOLED CHECKING						
12/15/2016	101	90 (E)	00146	CONSUMERS ENERGY PAYMENT CENTER	2010 S LINCOLN RD	628.05
					2010 S LINCOLN RD #GUL	46.58
					STREET LIGHTS	1,580.93
						<u>2,255.56</u>
12/07/2016	101	91 (E)	01105	MASTERCARD	MASTERCARD BEBOW	237.84
					MASTERCARD ALWOOD	50.83
					MASTERCARD MARTINEZ	460.24
					MASTERCARD DEARING	479.28
					MASTERCARD TAYLOR	31.97
					MASTERCARD RADAR	42.43
					MASTERCARD MCBRIDE	3,452.97
					MASTERCARD MCPHERSON	96.42
					MASTERCARD GALLINAT	210.18
					MASTERCARD FUSSMAN	21.94
					MASTERCARD SMITH K	553.35
					MASTERCARD STUHLDRERHER	40.50
					MASTERCARD DEPRIEST	306.09
						<u>5,984.04</u>
12/21/2016	101	18954	MISC	CHUCKS RELIABLE MH SALES	BD Payment Refund	25.00
					BD Payment Refund	25.00
						<u>50.00</u>
12/21/2016	101	18955	01358	21ST CENTURY MEDIA-MICHIGAN	AD FOR BOARD MINUTES/ZONING BOARD	500.52
					AD FOR PUBLIC WORKS ASSIST, ZONING BOARD	826.75
						<u>1,327.27</u>
12/21/2016	101	18956	00043	ARROW UNIFORM	UNIFORMS	45.44
					UNIFORMS	193.21
						<u>238.65</u>
12/21/2016	101	18957	00095	C & C ENTERPRISES, INC.	TWP HALL SUPPLIES	61.00
					TRASH BAGS - PARKS	36.00
						<u>97.00</u>
12/21/2016	101	18958	00099	CENTRAL CONCRETE PRODUCTS CO. INC	PUMPSTATION #14 - GENERATOR PAD	250.00
12/21/2016	101	18959	00104	CENTRAL FIRE PROTECTION	ANNUAL SERVICE/6 YR MAINT	30.00
12/21/2016	101	18960	00722	CHARTER TOWNSHIP OF UNION	2595 E DEERFIELD RD 2016 WINTER TAXES	1.33
12/21/2016	101	18961	00155	COYNE OIL CORPORATION	GAS & FUEL	521.98
12/21/2016	101	18962	01242	CULLIGAN WATER	WATER	27.00
12/21/2016	101	18963	01171	DBI BUSINESS INTERIORS	DESK PAD CALENDARS,BATTERIES ETC	117.90
					FOLDERS FOR ACCOUNTS PAYABLE	41.94
					HAND SANITIZER, PENS	239.21
						<u>399.05</u>
12/21/2016	101	18964	00231	FOUR SEASON'S EXTERMINATING	TWP HALL INT/EXT TREATMENT	40.00
12/21/2016	101	18965	01447	INTERSTATE BILLING SERVICE, INC	CENTRAL CLEANING SYSTEMS	203.40
12/21/2016	101	18966	01462	JENNIFER LOVEBERRY (PETTY CASH)	PETTY CASH REIMBURSEMENT 12-9-16	6.47

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12/21/2016	101	18967	00360	KIMBALL MIDWEST	OPERATING SUPPLIES	259.43
12/21/2016	101	18968	00362	KRAPOHL FORD & LINCOLN	SUPPLIES	25.00
12/21/2016	101	18969	01517	L S L PLANNING	MASTER PLAN REVIEW	3,711.92
12/21/2016	101	18970	01300	LINDSAY SOFT WATER	TWP HALL SALT DELIVERY	31.50
12/21/2016	101	18971	00402	MEDLER ELECTRIC CO	MAINT-BUILDINGS	3,516.00
12/21/2016	101	18972	00422	MICHIGAN PIPE & VALVE	HYDRANT/SADDLE	86.04
12/21/2016	101	18973	00466	MT. PLEASANT RENTAL CENTER	SIGN FOR NOVEMBER ELECTION	42.40
12/21/2016	101	18974	00472	MUNICIPAL CODE CORPORATION	CODE BANK ARCHIVES WEB HOSTING	900.00
12/21/2016	101	18975	00497	NORTHERN INDUSTRIAL SUPPLY	BLOWER #1 - REPAIR	3,413.21
12/21/2016	101	18976	01273	PRO-SEAL SERVICE GROUP	FUEL & LUBRICANTS	862.94
12/21/2016	101	18977	01329	ANGELA SCHOFIELD	MILEAGE FOR BSA TRAINING	75.06
12/21/2016	101	18978	01254	LARRY M SOMMER	NMCOA MEAL REIMBURSEMENT 5/16 TO 11/16 FLEX DEP CARE REIMB 12-15-16	57.44 192.31
						249.75
12/21/2016	101	18979	01446	THRUN LAW FIRM P.C.	MTT NO:14-002620 ALDI, INC MTT NO:15-003574 DARDEN RESTAURANTS, INC MTT NO:14-003971 RED LOBSTER RESTAURANTS MTT NO: 15-002807 BOB EVANS MTT NO. 160001595 CAMPUS CREST AT MP II MTT NO. 16-002603 PEP CMU, LLC V UNION T	194.40 35.20 35.20 124.40 35.20 264.00
						688.40
12/21/2016	101	18980	00668	UNITED PARCEL SERVICE	PACKAGE SHIPPING	18.65
12/21/2016	101	18981	01013	USA BLUE BOOK	BIOXIDE CHLORINE	832.31 285.50
						1,117.81
12/21/2016	101	18982	00703	WASTE MANAGEMENT OF MICHIGAN, INC	DUMPSTER SERVICE WWTP DUMPSTER SERVICE TWP HALL DUMPSTER SERVICE JAMESON HALL 5228 ISABELLA DUMPSTER DUMPSTER SERVICE MCDONALD PARK 4795 MISSION DUMPSTER SERVICE	718.85 54.45 106.61 66.56 164.61 46.35
						1,157.43
12/21/2016	101	18983	01236	WEB ASCENDER	HELP UPDATE ACCOUNTING PAGE ON WEBSITE	50.00
12/21/2016	101	18984	01520	KONWINSKI CONSTRUCTION INC	BUILDING PERMIT FEE REFUND WATER/SEWER FEE REFUND	6,118.49 35,133.00
						41,251.49
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101 TOTALS:

Total of 33 Checks:	68,888.78
Less 0 Void Checks:	0.00
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Total of 33 Disbursements:	68,888.78

User: SHERRIE

PERIOD ENDING 11/30/2016

DB: Union

% Fiscal Year Completed: 91.53

GL NUMBER	DESCRIPTION	END BALANCE	2016	PERIOD	% BDGT
		12/31/2015	AMENDED BUDGET	BALANCE	
		DR (CR)		DR (CR)	USED
Fund 101 - GENERAL FUND					
Revenues					
101-000-402.000	CURRENT PROPERTY TAX	(282,008.53)	301,614.00	(301,614.13)	100.00
101-000-402.001	PROPERTY TAX REFUNDS-MTT	3,244.14	(5,000.00)	262.61	5.25
101-000-402.002	PILOT TAX	(2,927.50)	3,000.00	0.00	0.00
101-000-402.100	PRIOR YEARS PROPERTY TAXES	(79.29)	(2,105.00)	2,103.68	99.94
101-000-420.000	DELQ PERSONAL PROPERTY TAXES	(389.38)	1,000.00	(860.77)	86.08
101-000-425.000	MOBILE HOME PARK TAX	(2,233.00)	2,600.00	(1,941.50)	74.67
101-000-445.000	INTEREST ON TAXES	(19.46)	(800.00)	833.57	104.20
101-000-446.000	3% OR 4% PENALTY ON TAX	(3,234.90)	21,000.00	(21,170.28)	100.81
101-000-447.000	ADMIN FEE-PROPERTY TAX	(137,379.07)	150,000.00	(147,520.30)	98.35
101-000-447.001	ADMIN FEES-REFUNDS MTT BOR	1,712.03	(800.00)	202.14	25.27
101-000-447.050	ADMIN FEE-STATE EDUC TAX(SET)	(7,800.00)	7,765.00	(7,765.00)	100.00
101-000-447.100	ADMIN FEE-PRIOR YEARS	0.00	0.00	33.86	100.00
101-000-475.000	CABLE TV	(80,463.35)	80,000.00	(39,947.33)	49.93
101-000-476.000	BUILDING PERMITS	(128,839.00)	65,000.00	(65,606.05)	100.93
101-000-477.000	RENTAL INSPECTION FEES	(79,252.50)	78,465.00	(78,464.50)	100.00
101-000-478.000	DOG LICENSE REVENUE	(1.00)	3.00	(3.00)	100.00
101-000-479.000	ZONING PERMITS	(54,876.00)	8,735.00	(10,755.00)	123.13
101-000-574.000	STATE REVENUE SHARING	(1,005,548.00)	1,010,000.00	(673,382.00)	66.67
101-000-574.100	LIQUOR STATE REVENUE SHARING	(11,567.05)	11,680.00	(11,748.55)	100.59
101-000-574.200	METRO ANNUAL MAINT. FEE	(6,100.56)	7,749.00	(7,749.49)	100.01
101-000-609.000	CONSTR PLAN REVIEW FEES	0.00	700.00	(875.00)	125.00
101-000-626.000	COPIES	(14.75)	0.00	0.00	0.00
101-000-627.000	SERVICES RENDERED FOR EDDA	(8,007.94)	0.00	0.00	0.00
101-000-628.000	LAND DIVISIONS	(1,100.00)	600.00	(500.00)	83.33
101-000-630.000	WEED ABATEMENT SERVICES	(344.25)	1,300.00	(950.75)	73.13
101-000-655.000	FINES & FORFEITURES	(1,356.76)	1,200.00	(1,014.42)	84.54
101-000-665.000	INTEREST EARNED	(14,712.55)	21,000.00	(19,894.25)	94.73
101-000-667.000	RENT - JAMESON HALL	(9,590.00)	6,500.00	(4,840.00)	74.46
101-000-667.100	RENT - McDONALD PARK PAVILION	(1,180.00)	1,360.00	(1,360.00)	100.00
101-000-667.200	RENT - JAMESON PAVILION	(580.00)	420.00	(420.00)	100.00
101-000-667.300	LEASES	(900.00)	900.00	(900.00)	100.00
101-000-671.000	OTHER REVENUE	(4,478.20)	14,128.00	(14,222.56)	100.67
101-000-672.400	REVENUE-STREET LIGHTS SPEC ASSESS	(17,487.34)	15,577.00	(12,577.17)	80.74
101-000-673.000	GAIN ON SALE OF FIXED ASSETS	0.00	6,500.00	(6,500.00)	100.00
TOTAL REVENUES		(1,857,514.21)	1,810,091.00	(1,429,146.19)	78.95
Expenditures					
101	TRUSTEES	90,978.60	88,187.00	74,345.23	84.30
171	SUPERVISOR	27,730.38	36,677.00	29,535.11	80.53
172	TWP MANAGER	40,740.73	53,555.00	45,925.15	85.75
191	ACCOUNTING/GEN ADMIN	137,063.77	150,787.00	127,176.40	84.34
215	CLERK	27,423.37	50,658.04	44,684.79	88.21
228	INFORMATION TECHNOLOGY	33,765.97	36,500.00	31,609.75	86.60
247	BOARD OF REVIEW	3,649.86	6,168.00	4,400.04	71.34
253	TREASURER	33,598.44	34,328.00	26,918.12	78.41
257	ASSESSOR	214,253.16	219,342.00	192,524.48	87.77
262	ELECTIONS	5,268.89	28,320.00	27,684.09	97.75
265	TWP HALL & GROUNDS	56,899.24	60,450.00	49,941.82	82.62
266	LEGAL/ATTORNEY	2,445.00	20,000.00	19,747.85	98.74
330	LIQUOR CONTROL	10,565.92	11,753.00	9,551.99	81.27
371	BUILDING	48,114.60	101,553.00	83,194.68	81.92
372	ZONING	47,179.91	50,363.00	46,830.17	92.99
373	RENTAL INSPECTIONS	157,320.03	123,725.00	110,551.26	89.35
441	PUBLIC WORKS	268,752.87	499,813.00	347,678.69	69.56
721	PLANNING	18,376.35	20,528.00	13,671.98	66.60
722	ZONING BOARD OF APPEALS	2,980.46	3,635.00	994.01	27.35
751	PARKS & RECREATION	165,700.13	128,691.00	108,883.96	84.61
901	CAPITAL OUTLAY	62,899.35	44,800.00	44,321.13	98.93
TOTAL EXPENDITURES		1,455,707.03	1,769,833.04	1,440,170.70	81.37
Fund 101 - GENERAL FUND:					
TOTAL REVENUES		1,857,514.21	1,810,091.00	1,429,146.19	78.95
TOTAL EXPENDITURES		1,455,707.03	1,769,833.04	1,440,170.70	81.37
NET OF REVENUES & EXPENDITURES		401,807.18	40,257.96	(11,024.51)	27.38

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 206 - FIRE FUND					
Revenues					
206-000-402.000	CURRENT REAL PROPERTY TAX	(592,306.92)	603,580.00	(603,580.60)	100.00
206-000-402.001	PROPERTY TAX REFUNDS-MTT	6,814.31	(12,500.00)	539.68	4.32
206-000-402.002	PILOT TAX	(5,855.01)	6,000.00	0.00	0.00
206-000-402.100	PRIOR YEARS PROPERTY TAXES	0.00	(100.00)	39.04	39.04
206-000-420.000	DELQ PERSONAL PROPERTY TAXES	(360.57)	1,000.00	(862.67)	86.27
206-000-445.000	INTEREST ON TAXES	(40.93)	25.00	(37.35)	149.40
206-000-600.200	FIRE PROTECTION - EDDA	(61,917.40)	60,776.00	(60,775.00)	100.00
206-000-600.300	FIRE PROTECTION - WDDA	(39,022.56)	37,316.00	(37,316.28)	100.00
206-000-665.000	INTEREST EARNED	(5,022.57)	7,300.00	(6,760.76)	92.61
TOTAL REVENUES		(697,711.65)	703,397.00	(708,753.94)	100.76
Expenditures					
336	FIRE DEPARTMENT	654,900.00	669,300.00	669,300.00	100.00
TOTAL EXPENDITURES		654,900.00	669,300.00	669,300.00	100.00
Fund 206 - FIRE FUND:					
TOTAL REVENUES		697,711.65	703,397.00	708,753.94	100.76
TOTAL EXPENDITURES		654,900.00	669,300.00	669,300.00	100.00
NET OF REVENUES & EXPENDITURES		42,811.65	34,097.00	39,453.94	115.71

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDT USED
Fund 248 - EDDA OPERATING					
Revenues					
248-000-402.000	CURRENT PROPERTY TAX	(414,711.78)	426,099.00	(426,383.74)	100.07
248-000-402.001	PROPERTY TAX REFUNDS-MTT	0.00	(5,000.00)	0.00	0.00
248-000-402.100	PRIOR YEARS PROPERTY TAXES	0.00	250.00	0.00	0.00
248-000-420.000	DELQ PERSONAL PROPERTY CAPT	(67.84)	2,500.00	(2,143.16)	85.73
248-000-573.000	STATE AID REVENUE	0.00	0.00	(70,565.75)	100.00
248-000-665.000	INTEREST EARNED	(3,607.75)	1,800.00	(1,744.33)	96.91
248-000-671.000	OTHER REVENUE	(263.50)	500.00	(101.09)	20.22
TOTAL REVENUES		(418,650.87)	426,149.00	(500,938.07)	117.55
Expenditures					
000	NONE	1,260,310.20	639,678.00	480,391.97	75.10
336	FIRE DEPARTMENT	61,917.40	60,776.00	60,775.00	100.00
TOTAL EXPENDITURES		1,322,227.60	700,454.00	541,166.97	77.26
Fund 248 - EDDA OPERATING:					
TOTAL REVENUES		418,650.87	426,149.00	500,938.07	117.55
TOTAL EXPENDITURES		1,322,227.60	700,454.00	541,166.97	77.26
NET OF REVENUES & EXPENDITURES		(903,576.73)	(274,305.00)	(40,228.90)	14.67

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 250 - WDDA OPERATING					
Revenues					
250-000-402.000	CURRENT PROPERTY TAX	(499,594.05)	457,663.00	(457,662.49)	100.00
250-000-402.001	PROPERTY TAX REFUNDS-MTT	1,038.41	(8,500.00)	8,337.74	98.09
250-000-402.100	PRIOR YEARS PROPERTY TAXES	0.00	250.00	0.00	0.00
250-000-420.000	DELQ PERSONAL PROPERTY CAPT	(281.65)	400.00	(333.99)	83.50
250-000-573.000	STATE AID REVENUE	0.00	0.00	(6,837.57)	100.00
250-000-665.000	INTEREST EARNED	(1,306.34)	1,800.00	(1,592.41)	88.47
TOTAL REVENUES		(500,143.63)	451,613.00	(458,088.72)	101.43
Expenditures					
000	NONE	0.00	1,375.00	0.00	0.00
336	FIRE DEPARTMENT	39,022.56	37,317.00	37,316.28	100.00
996	TRANSFER OUT	220,000.00	220,000.00	220,000.00	100.00
TOTAL EXPENDITURES		259,022.56	258,692.00	257,316.28	99.47
Fund 250 - WDDA OPERATING:					
TOTAL REVENUES		500,143.63	451,613.00	458,088.72	101.43
TOTAL EXPENDITURES		259,022.56	258,692.00	257,316.28	99.47
NET OF REVENUES & EXPENDITURES		241,121.07	192,921.00	200,772.44	104.07

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 288 - TRIBAL 2% GRANTS FUND					
Revenues					
288-000-502.006	RIVER RD-WHITEVILLE TO LINCOLN	(104,717.00)	0.00	0.00	0.00
288-000-502.007	RIVER RD-LINCOLN TO CRAWFORD	(94,947.00)	0.00	0.00	0.00
288-000-665.000	INTEREST EARNED	(1,080.81)	950.00	(926.00)	97.47
TOTAL REVENUES		(200,744.81)	950.00	(926.00)	97.47
Expenditures					
728	ECONOMIC DEVELOPMENT	96,135.36	570,125.00	570,125.00	100.00
TOTAL EXPENDITURES		96,135.36	570,125.00	570,125.00	100.00
Fund 288 - TRIBAL 2% GRANTS FUND:					
TOTAL REVENUES		200,744.81	950.00	926.00	97.47
TOTAL EXPENDITURES		96,135.36	570,125.00	570,125.00	100.00
NET OF REVENUES & EXPENDITURES		104,609.45	(569,175.00)	(569,199.00)	100.00

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 590 - SEWER FUND					
Revenues					
590-000-456.000	HOOKUP FEE	(171,650.50)	210,000.00	(197,252.73)	93.93
590-000-627.000	SERVICE	(1,249,430.11)	1,249,656.00	(940,115.85)	75.23
590-000-627.100	DELINQUENT SEWER	0.00	(2,350.00)	2,341.07	99.62
590-000-628.000	INSPECTIONS	0.00	1,200.00	(1,200.00)	100.00
590-000-655.000	FINES & FORFEITURES	(35,941.84)	25,000.00	(30,349.61)	121.40
590-000-665.000	INTEREST EARNED	(12,293.58)	19,000.00	(16,396.70)	86.30
590-000-665.003	INTEREST EARNED - BOND RESERVES	(253.35)	600.00	(580.47)	96.75
590-000-669.001	INTEREST EARNED - SPECIAL ASSESSMENTS	(4,699.43)	5,000.00	0.00	0.00
590-000-670.000	DEBT RETIREMENT	(1,059,341.23)	1,060,162.00	(795,736.08)	75.06
590-000-670.100	DEBT SERVICE (SEWER 1) CITY ANNEX	(2,700.00)	1,000.00	(1,050.00)	105.00
590-000-671.000	OTHER REVENUE	(2,876.08)	6,700.00	(6,755.83)	100.83
590-000-672.500	REVENUE-SPECIAL ASSESS	0.00	0.00	(23,761.93)	100.00
590-000-673.000	GAIN ON SALE OF FIXED ASSETS	(554.21)	9,138.00	(9,138.00)	100.00
TOTAL REVENUES		(2,539,740.33)	2,585,106.00	(2,019,996.13)	78.14
Expenditures					
529	O & M EXPENDITURES	452,551.03	570,723.00	456,707.13	80.02
530	SEWER LIFT STATIONS	29,355.77	151,000.00	112,567.77	74.55
588	VEHICLE EXPENDITURES	15,158.96	49,700.00	32,907.08	66.21
611	WWTP	771,227.20	937,846.00	687,652.83	73.32
906	DEBT SERVICE	313,552.74	307,432.00	204,192.68	66.42
960	DEPRECIATION EXPENSE	574,614.18	700,000.00	0.00	0.00
TOTAL EXPENDITURES		2,156,459.88	2,716,701.00	1,494,027.49	54.99
Fund 590 - SEWER FUND:					
TOTAL REVENUES		2,539,740.33	2,585,106.00	2,019,996.13	78.14
TOTAL EXPENDITURES		2,156,459.88	2,716,701.00	1,494,027.49	54.99
NET OF REVENUES & EXPENDITURES		383,280.45	(131,595.00)	525,968.64	399.69

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 591 - WATER FUND					
Revenues					
591-000-450.000	WATER SALES	(1,287,032.18)	1,300,000.00	(1,022,323.08)	78.64
591-000-450.100	BULK WATER SALES	(1,020.00)	3,200.00	(2,879.00)	89.97
591-000-450.200	FINAL READ	(1,785.00)	1,650.00	(1,620.00)	98.18
591-000-450.300	TURN-OFF	(3,150.00)	2,200.00	(1,750.00)	79.55
591-000-452.000	LATERALS	(2,937.60)	5,950.00	(5,946.96)	99.95
591-000-454.000	BENEFIT FEES	(38,955.00)	44,000.00	(39,224.25)	89.15
591-000-459.000	REVENUE-HOOK UP FEE	(78,499.90)	104,200.00	(87,981.40)	84.44
591-000-479.000	REVENUE-REPLACEMENT METERS	0.00	50.00	0.00	0.00
591-000-628.000	INSPECTIONS	0.00	2,700.00	(1,800.00)	66.67
591-000-655.000	FINES & FORFEITURES	(21,103.64)	20,000.00	(19,900.99)	99.50
591-000-665.000	INTEREST EARNED	(13,097.10)	17,500.00	(16,291.63)	93.10
591-000-667.300	LEASES - TOWER RENTAL	(40,118.65)	40,000.00	(35,267.25)	88.17
591-000-669.001	INTEREST EARNED-SPEC ASSESS	(9,772.80)	6,911.00	(31.96)	0.46
591-000-671.000	OTHER REVENUE	(21,180.65)	3,000.00	(2,874.66)	95.82
591-000-672.500	REVENUE-SPECIAL ASSESS	(30,817.56)	9,682.00	(15,038.82)	155.33
591-000-673.000	GAIN ON SALE OF FIXED ASSETS	(1,594.79)	500.00	(598.00)	119.60
TOTAL REVENUES		(1,551,064.87)	1,561,543.00	(1,253,528.00)	80.27
Expenditures					
536	WATER O & M	856,339.92	969,645.00	851,671.46	87.83
537	WATER WELLS	8,310.06	50,500.00	39,168.90	77.56
538	TREATMENT PLANT	47,221.20	76,000.00	67,306.23	88.56
539	WATER TOWER	13,550.71	60,000.00	13,328.20	22.21
588	VEHICLE EXPENDITURES	12,768.90	33,550.00	33,623.07	100.22
906	DEBT SERVICE	68,786.48	67,284.00	65,705.00	97.65
960	DEPRECIATION EXPENSE	292,742.39	300,000.00	0.00	0.00
TOTAL EXPENDITURES		1,299,719.66	1,556,979.00	1,070,802.86	68.77
Fund 591 - WATER FUND:					
TOTAL REVENUES		1,551,064.87	1,561,543.00	1,253,528.00	80.27
TOTAL EXPENDITURES		1,299,719.66	1,556,979.00	1,070,802.86	68.77
NET OF REVENUES & EXPENDITURES		251,345.21	4,564.00	182,725.14	4,003.62
TOTAL REVENUES - ALL FUNDS					
TOTAL REVENUES - ALL FUNDS		7,765,570.37	7,538,849.00	6,371,377.05	84.51
TOTAL EXPENDITURES - ALL FUNDS		7,244,172.09	8,242,084.04	6,042,909.30	73.32
NET OF REVENUES & EXPENDITURES		521,398.28	(703,235.04)	328,467.75	46.71

Charter Township of Union Payroll
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CHECK DATE: December 15, 2016

PPE: December 10, 2016

NOTE: CHECK TOTAL FOR TRANSFER

Gross Payroll	\$	45,820.48
Employer Share Med		658.53
Employer Share SS		2,815.71
SUI		37.67
Pension-Employer Portion		3,092.03
Workers' Comp		480.85
Life/LTD		-
Dental		-
Health Care		-
Cobra/Flex Administration		341.90
PCORI Fee		-
Total Transfer to Payroll Checking	\$	53,247.17

NOTE: PAYROLL TRANSFER NEEDED

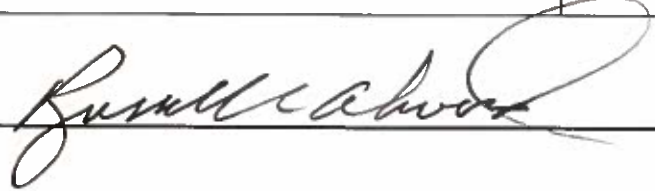
General Fund	\$	19,582.86
EDDA		-
WDDA		-
Sewer Fund		17,910.59
Water Fund		15,753.72
Total To Transfer from Pooled Savings	\$	53,247.17

**CHARTER TOWNSHIP OF UNION
BOARD MEETING ATTENDANCE RECORD
2016**

BOARD MEMBER: Russ Alwood

DATE: 11-1-2016

Date	Meeting	Time Attended		Total
		1hr or less	More than Hr	
11/16/2016	Council of Governments	✓		50.00
				50.00

SIGNATURE: 

1. This form is filled out by the board member and turned into the Finance Director. Completed requests will be added to the consent agenda for approval at the next regular board meeting. After board approval, payment will be added to the next regular payroll process.
2. Only list those meetings that you have attended. You are required to list the amount of meeting time you were in attendance. The amount paid is subject to the time you spent during the actual meeting. 1 to 60 minutes is reimbursed at \$50. Anything greater than 60 minutes is reimbursed at \$75.
3. Attendances at all day conferences/sessions are reimbursed as one meeting at \$75.




Mount Pleasant Fire Department

**Fire Experience Report For Union Township/City of Mt. Pleasant
Period - November 21, 2016 through November 27, 2016**

Category	Code	Description	Twp	Resp	City
Fire	100	Fire, Other			1
	111	Building Fire			
	112	Fires in Structures other than a Building			
	113	Cooking Fire			
	114	Chimney or Flue Fire			
	116	Fuel Burner/Boiler Malfunction			
	131	Passenger Vehicle Fire			
	132	Road freight or transport vehicle fire			
	136	Self-propelled Motor Home/Recreational			
	137	Camper or Recreational Vehicle (RV) Fire			
	138	Off-road vehicle of heavy equipment fire			
	140	Natural Vegetation Fire			
	143	Grass/Brush fire			
	150	Outside Rubbish Fire, other			
	151	Outside Rubbish Fire, trash or waste fire			
	154	Dumpster Fire			
160	Special Outside Fire, Other				
Overpressure Rupture, (No Fire)	251	Excessive heat, scorch burns with no fire			
	231	Chemical reaction rupture of process vessel			
Rescue & EMS Incident	300	Rescue, EMS incident, other	1	2	
	311	Medical Assist to EMS Crew	3	6	5
	321	EMS Call excluding Veh. Accident	1	2	1
	322	Motor Vehicle Acc. W/ Injuries			
	323	Motor Vehicle Acc/Pedestrian			
	324	Motor Vehicle Acc. W/no Injuries			
	331	Lock-In (If lock out use 551)			
	342	Search for Person in Water			
	352	Extrication of Victim (s) from vehicle			
	353	Remove Victim from Stalled Elevator			
	360	Water & Ice-related Rescue, Other			
361	Swimming /recreational water area rescue				
3811	Technical rescue standby				
Hazardous Condition (No Fire)	400	Hazard condition other			
	410	Combustible/Flammable Gas Condition			
	411	Gasoline or Other Flammable Spill			
	412	Gas Leak (natural gas or LPG)			
	413	Oil of Combustible Liquid Spill			
	423	Refrigeration Leak			
	424	Carbon Monoxide Incident			
	440	Electric Wiring/Equipment Problem			
	441	Heat from Short Circuit			
	442	Overheated Motor			
443	Breakdown of Light Ballast				
444	Power Line Down				

	445	Arcing, shorted electrical equipment			
	451	Biological hazard, confirmed or suspected			
	461	Building or Structure Weakened or Collapsed			
	462	Aircraft Standby			
	463	Vehicle Accident, general cleanup			
	480	Attempted burning, illegal action, other			
	4441	Utility Line Down			
Service Call	500	Service Call - Other			
	510	Person in Distress			
	511	Lock-out			
	512	Ring or Jewelry removal			
	520	Water Problem, Other			
	521	Water Evacuation			
	522	Water of Steam Leak			
	531	Smoke or Odor Removal			
	542	Animal Rescue			
	552	Police Matter			
	553	Public Service			
	561	Unauthorized Burning			
	571	Cover assignment, standby, moveup			
Good Intent Call	600	Good Intent Call, Other			
	611	Dispatched and Cancelled en route			1
	622	No Incident Found on Arrival			
	631	Authorized controlled burning			
	650	Steam, gas mistaken for smoke,			1
	651	Smoke Scare, Odor of Smoke			
	671	HazMat Investigation, no HazMat			
False Alarm & False Call	700	False Alarm, Other			
	710	Malicious, mischievous false call, other			
	715	Local Alarm System, Malicious False Alarm			
	730	System Malfunction			
	731	Sprinkler activation due to malfunction			
	732	Extinguishing System Activation - Malfunction			
	733	Smoke Det. Activation - Malfunction			1
	734	Heat Detector Activation - Malfunction			
	735	Alarm system sounded due to malfunction			
	736	CO detector activation due to malfunction			
	740	Unintentional transmission of alarm, other			
	741	Sprinkler activation, no fire			
	743	Smoke Det. Activation - Unintentional			
	744	Detector activation, no fire			
	745	Alarm System Act. - Unintentional			
	746	Carbon Monoxide Activation, NO CO			
Severe Weather	813	Wind Storm,Tornado/Hurricane Assessment			
Special Incident Type	911	Citizen Complaint			
	9003	Affidavit Issued			

	Total Response for Union Twp/City	5	10	10
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-  Emergency - MPFD
-  Emergency - MPFD Secondary to MMR
-  Non - Emergency




Mount Pleasant Fire Department

**Fire Experience Report For Union Township/City of Mt. Pleasant
Period - November 28, 2016 through December 4, 2016**

Category	Code	Description	Twp	Resp	City
Fire	100	Fire, Other			
	111	Building Fire			
	112	Fires in Structures other than a Building			
	113	Cooking Fire			
	114	Chimney or Flue Fire			
	116	Fuel Burner/Boiler Malfunction			
	131	Passenger Vehicle Fire			
	132	Road freight or transport vehicle fire			
	136	Self-propelled Motor Home/Recreational			
	137	Camper or Recreational Vehicle (RV) Fire			
	138	Off-road vehicle of heavy equipment fire			
	140	Natural Vegetation Fire			
	143	Grass/Brush fire			
	150	Outside Rubbish Fire, other			
	151	Outside Rubbish Fire, trash or waste fire			
		154	Dumpster Fire		
	160	Special Outside Fire, Other			
Overpressure Rupture, (No Fire)	251	Excessive heat, scorch burns with no fire			1
	231	Chemical reaction rupture of process vessel			
Rescue & EMS Incident	300	Rescue, EMS incident, other			
	311	Medical Assist to EMS Crew			2
	321	EMS Call excluding Veh. Accident	3	9	2
	322	Motor Vehicle Acc. W/ Injuries			1
	323	Motor Vehicle Acc/Pedestrian			1
	324	Motor Vehicle Acc. W/no Injuries	3	7	2
	331	Lock-In (If lock out use 551)			
	342	Search for Person in Water			
	352	Extrication of Victim (s) from vehicle			1
	353	Remove Victim from Stalled Elevator			
	360	Water & Ice-related Rescue, Other			
	361	Swimming /recreational water area rescue			
	3811	Technical rescue standby			
Hazardous Condition (No Fire)	400	Hazard condition other			
	410	Combustible/Flammable Gas Condition			
	411	Gasoline or Other Flammable Spill			
	412	Gas Leak (natural gas or LPG)			
	413	Oil of Combustible Liquid Spill			
	423	Refrigeration Leak			
	424	Carbon Monoxide Incident	1	2	
	440	Electric Wiring/Equipment Problem			
	441	Heat from Short Circuit			
	442	Overheated Motor			
	443	Breakdown of Light Ballast	1	9	
	444	Power Line Down			

	445	Arcing, shorted electrical equipment			1
	451	Biological hazard, confirmed or suspected			
	461	Building or Structure Weakened or Collapsed			
	462	Aircraft Standby			
	463	Vehicle Accident, general cleanup			
	480	Attempted burning, illegal action, other			
	4441	Utility Line Down			
Service Call	500	Service Call - Other			
	510	Person in Distress			
	511	Lock-out			
	512	Ring or Jewelry removal			
	520	Water Problem, Other			
	521	Water Evacuation			
	522	Water of Steam Leak			
	531	Smoke or Odor Removal			
	542	Animal Rescue			
	552	Police Matter			
	553	Public Service			
	561	Unauthorized Burning	1	3	
	571	Cover assignment, standby, moveup			
Good Intent Call	600	Good Intent Call, Other			
	611	Dispatched and Cancelled en route			1
	622	No Incident Found on Arrival			
	631	Authorized controlled burning			
	650	Steam, gas mistaken for smoke,			
	651	Smoke Scare, Odor of Smoke			
	671	HazMat Investigation, no HazMat			
False Alarm & False Call	700	False Alarm, Other			1
	710	Malicious, mischievous false call, other			
	715	Local Alarm System, Malicious False Alarm			
	730	System Malfunction			2
	731	Sprinkler activation due to malfunction			
	732	Extinguishing System Activation - Malfunction			
	733	Smoke Det. Activation - Malfunction	1	2	1
	734	Heat Detector Activation - Malfunction			
	735	Alarm system sounded due to malfunction			
	736	CO detector activation due to malfunction			
	740	Unintentional transmission of alarm, other			
	741	Sprinkler activation, no fire			
	743	Smoke Det. Activation - Unintentional			
	744	Detector activation, no fire			
	745	Alarm System Act. - Unintentional			1
	746	Carbon Monoxide Activation, NO CO			
Severe Weather	813	Wind Storm, Tornado/Hurricane Assessment			
Special Incident Type	911	Citizen Complaint			
	9003	Affidavit Issued			

	Total Response for Union Twp/City	10	32	17
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-  Emergency - MPFD
-  Emergency - MPFD Secondary to MMR
-  Non - Emergency

Policy: 2.4 Financial Planning / Budgeting
Type: Internal
Occurrence: Annual
Date: December 2016

Policy Wording

Financial planning for any fiscal year or the remaining part of any fiscal year shall not deviate materially from the board’s Ends priorities, risk fiscal jeopardy, or fail to be derived from a multi-year plan.

Manager Interpretation

Township Manager interprets this policy to indicate that the Board of Trustees wants to ensure financial stability by requiring that the Township Manager shall not fail to include reasonable revenue and expenditure projections; that the Township Manager shall not budget more expenditures than what revenues are conservatively expected; that the fund balances of the general fund, fire fund shall not fall below 4 months of budgeted expenses and, sewer and water funds, EDDA and WDDA funds shall not fall below 4 months of budgeted expenses; provide less money for board prerogatives in achieving the board’s Ends policies.

Justification for reasonability

The interpretations are reasonable in that when the budget is approved by the Board of Trustees, it is left to the management team to operate within the guidelines established and to follow all state and federal statutes. The Township Board is to function as a policy making body and the management team is to function as implementer of that policy as indicated in the approved budget.

Data

- * Current budget and proposed 2017 budget follow State statutes.
- * Monthly cash flow data as found in monitoring report 2.5.10 show cash balances meet minimum guidelines.
- * Budget adjustments were approved by Board of Trustees throughout the fiscal year.
- * 2015 financial audit shows no risk of fiscal jeopardy with an overall clean audit as reported by the Township Auditors.
- * As evidenced throughout monthly reporting, fund balance policy targets have been met.

Compliance

Compliance with policy 2.4 has been met.

Policy: 2.5.10 Cash Flow Ratio
Type: Internal
Occurrence: Monthly
Date: November 2016

Policy Wording

He or she shall not fail to maintain an adequate level of cash flow.

Manager Interpretation

Manager interprets this policy to indicate that cash availability for the major funds (not including debt retirement or special revenue funds) should not fall below a certain threshold. The threshold amount used for the data and compliance sections of this policy is as follows: **General Fund** – 4 months of budgeted expenses for the current fiscal year; **Fire Fund** – 3 of the quarterly contract payments due to the City of Mt. Pleasant for fire protection services; **East and West DDA Funds** – 4 months of normal operational expenses; **Water and Sewer Funds** – 2 months of budgeted expenses for the current fiscal year;

Justification for reasonability

Cash flow for this report is defined as “liquid cash reserves held by a bank or credit union that can be accessed and utilized on an as needed basis.”

The Township Manager has determined that 4 months of cash reserves is needed for the General Fund because property taxes are collected in December, January, and February, and that accounts for 20% of the revenues for the General Fund. State Revenue Sharing (60% of GF revenues) is received semi monthly thereby giving the township an influx of cash for operations.

For the Fire Fund, 3 quarterly contract payments are required to meet the obligations of the July, October, and January payments prior to the collection of the property tax in the first quarter of each year

For the East and West DDA districts 4 months of cash reserves are needed to meet the normal operations of the East and West Districts. Project costs are not included because they are not reoccurring and will be based on the tax capture amount that will be deposited in the respective funds during the first quarter of each year.

For the Water and Sewer Funds 2 months of cash reserves are needed because 80% of the water and sewer bills are paid in the first two months of each quarter. Bills are sent in January, April, July, and October of each year.

Data used from this report is gathered from the BS&A General Ledger system – report- “Cash Summary by Account for the Charter Township of Union” and is based on the reconciled cash at the end of the previous month.

Policy 2.5.10 continued

Data

<u>Fund</u>	<u>Current cash</u>	<u>Amount required for compliance</u>	<u>Compliant?</u>
GF Total	\$ 2,929,485		
(Restricted-Const)	\$ (21,025)		
GF Unrestricted	\$ 2,908,460	\$ 536,487	Yes
Fire Fund	\$ 1,081,540		
(Fire Truck Reserve)	\$ (350,000)		
FF Unrestricted	\$ 731,540	\$ 501,975	Yes
EDDA	\$ 852,818		
Projects	\$ -0-		
EDDA Unrestricted	\$ 852,818	\$ 140,950	Yes
WDDA	\$ 847,146		
Projects	\$ -0-		
WDDA Unrestricted	\$ 847,146	\$ 98,533	Yes
Sewer Fund	\$ 3,083,520		
Savings 2004 Bond Reserve	\$ (175,871)		
Savings 2011 Bond Reserve	\$ (30,000)		
Savings 2011 Bond RPI Reserve	\$ (61,230)		
Savings 2013 Bond Reserve	\$ (60,000)		
Savings 2013 Bond RPI Reserve	\$ (10,521)		
Sewer Fund Net	\$ 2,745,898	\$ 364,057	Yes
Water Fund	\$ 2,820,351	\$ 197,998	Yes

Compliance

All funds are found to be in compliance.

User: SHERRIE

PERIOD ENDING 11/30/2016

DB: Union

% Fiscal Year Completed: 91.53

GL NUMBER	DESCRIPTION	END BALANCE	2016	PERIOD	% BDGT
		12/31/2015	AMENDED BUDGET	BALANCE	
		DR (CR)		DR (CR)	USED
Fund 101 - GENERAL FUND					
Revenues					
101-000-402.000	CURRENT PROPERTY TAX	(282,008.53)	301,614.00	(301,614.13)	100.00
101-000-402.001	PROPERTY TAX REFUNDS-MTT	3,244.14	(5,000.00)	262.61	5.25
101-000-402.002	PILOT TAX	(2,927.50)	3,000.00	0.00	0.00
101-000-402.100	PRIOR YEARS PROPERTY TAXES	(79.29)	(2,105.00)	2,103.68	99.94
101-000-420.000	DELQ PERSONAL PROPERTY TAXES	(389.38)	1,000.00	(860.77)	86.08
101-000-425.000	MOBILE HOME PARK TAX	(2,233.00)	2,600.00	(1,941.50)	74.67
101-000-445.000	INTEREST ON TAXES	(19.46)	(800.00)	833.57	104.20
101-000-446.000	3% OR 4% PENALTY ON TAX	(3,234.90)	21,000.00	(21,170.28)	100.81
101-000-447.000	ADMIN FEE-PROPERTY TAX	(137,379.07)	150,000.00	(147,520.30)	98.35
101-000-447.001	ADMIN FEES-REFUNDS MTT BOR	1,712.03	(800.00)	202.14	25.27
101-000-447.050	ADMIN FEE-STATE EDUC TAX (SET)	(7,800.00)	7,765.00	(7,765.00)	100.00
101-000-447.100	ADMIN FEE-PRIOR YEARS	0.00	0.00	33.86	100.00
101-000-475.000	CABLE TV	(80,463.35)	80,000.00	(39,947.33)	49.93
101-000-476.000	BUILDING PERMITS	(128,839.00)	65,000.00	(65,606.05)	100.93
101-000-477.000	RENTAL INSPECTION FEES	(79,252.50)	78,465.00	(78,464.50)	100.00
101-000-478.000	DOG LICENSE REVENUE	(1.00)	3.00	(3.00)	100.00
101-000-479.000	ZONING PERMITS	(54,876.00)	8,735.00	(10,755.00)	123.13
101-000-574.000	STATE REVENUE SHARING	(1,005,548.00)	1,010,000.00	(673,382.00)	66.67
101-000-574.100	LIQUOR STATE REVENUE SHARING	(11,567.05)	11,680.00	(11,748.55)	100.59
101-000-574.200	METRO ANNUAL MAINT. FEE	(6,100.56)	7,749.00	(7,749.49)	100.01
101-000-609.000	CONSTR PLAN REVIEW FEES	0.00	700.00	(875.00)	125.00
101-000-626.000	COPIES	(14.75)	0.00	0.00	0.00
101-000-627.000	SERVICES RENDERED FOR EDDA	(8,007.94)	0.00	0.00	0.00
101-000-628.000	LAND DIVISIONS	(1,100.00)	600.00	(500.00)	83.33
101-000-630.000	WEED ABATEMENT SERVICES	(344.25)	1,300.00	(950.75)	73.13
101-000-655.000	FINES & FORFEITURES	(1,356.76)	1,200.00	(1,014.42)	84.54
101-000-665.000	INTEREST EARNED	(14,712.55)	21,000.00	(19,894.25)	94.73
101-000-667.000	RENT - JAMESON HALL	(9,590.00)	6,500.00	(4,840.00)	74.46
101-000-667.100	RENT - McDONALD PARK PAVILION	(1,180.00)	1,360.00	(1,360.00)	100.00
101-000-667.200	RENT - JAMESON PAVILION	(580.00)	420.00	(420.00)	100.00
101-000-667.300	LEASES	(900.00)	900.00	(900.00)	100.00
101-000-671.000	OTHER REVENUE	(4,478.20)	14,128.00	(14,222.56)	100.67
101-000-672.400	REVENUE-STREET LIGHTS SPEC ASSESS	(17,487.34)	15,577.00	(12,577.17)	80.74
101-000-673.000	GAIN ON SALE OF FIXED ASSETS	0.00	6,500.00	(6,500.00)	100.00
TOTAL REVENUES		(1,857,514.21)	1,810,091.00	(1,429,146.19)	78.95
Expenditures					
101	TRUSTEES	90,978.60	88,187.00	74,345.23	84.30
171	SUPERVISOR	27,730.38	36,677.00	29,535.11	80.53
172	TWP MANAGER	40,740.73	53,555.00	45,925.15	85.75
191	ACCOUNTING/GEN ADMIN	137,063.77	150,787.00	127,176.40	84.34
215	CLERK	27,423.37	50,658.04	44,684.79	88.21
228	INFORMATION TECHNOLOGY	33,765.97	36,500.00	31,609.75	86.60
247	BOARD OF REVIEW	3,649.86	6,168.00	4,400.04	71.34
253	TREASURER	33,598.44	34,328.00	26,918.12	78.41
257	ASSESSOR	214,253.16	219,342.00	192,524.48	87.77
262	ELECTIONS	5,268.89	28,320.00	27,684.09	97.75
265	TWP HALL & GROUNDS	56,899.24	60,450.00	49,941.82	82.62
266	LEGAL/ATTORNEY	2,445.00	20,000.00	19,747.85	98.74
330	LIQUOR CONTROL	10,565.92	11,753.00	9,551.99	81.27
371	BUILDING	48,114.60	101,553.00	83,194.68	81.92
372	ZONING	47,179.91	50,363.00	46,830.17	92.99
373	RENTAL INSPECTIONS	157,320.03	123,725.00	110,551.26	89.35
441	PUBLIC WORKS	268,752.87	499,813.00	347,678.69	69.56
721	PLANNING	18,376.35	20,528.00	13,671.98	66.60
722	ZONING BOARD OF APPEALS	2,980.46	3,635.00	994.01	27.35
751	PARKS & RECREATION	165,700.13	128,691.00	108,883.96	84.61
901	CAPITAL OUTLAY	62,899.35	44,800.00	44,321.13	98.93
TOTAL EXPENDITURES		1,455,707.03	1,769,833.04	1,440,170.70	81.37
Fund 101 - GENERAL FUND:					
TOTAL REVENUES		1,857,514.21	1,810,091.00	1,429,146.19	78.95
TOTAL EXPENDITURES		1,455,707.03	1,769,833.04	1,440,170.70	81.37
NET OF REVENUES & EXPENDITURES		401,807.18	40,257.96	(11,024.51)	27.38

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 206 - FIRE FUND					
Revenues					
206-000-402.000	CURRENT REAL PROPERTY TAX	(592,306.92)	603,580.00	(603,580.60)	100.00
206-000-402.001	PROPERTY TAX REFUNDS-MTT	6,814.31	(12,500.00)	539.68	4.32
206-000-402.002	PILOT TAX	(5,855.01)	6,000.00	0.00	0.00
206-000-402.100	PRIOR YEARS PROPERTY TAXES	0.00	(100.00)	39.04	39.04
206-000-420.000	DELQ PERSONAL PROPERTY TAXES	(360.57)	1,000.00	(862.67)	86.27
206-000-445.000	INTEREST ON TAXES	(40.93)	25.00	(37.35)	149.40
206-000-600.200	FIRE PROTECTION - EDDA	(61,917.40)	60,776.00	(60,775.00)	100.00
206-000-600.300	FIRE PROTECTION - WDDA	(39,022.56)	37,316.00	(37,316.28)	100.00
206-000-665.000	INTEREST EARNED	(5,022.57)	7,300.00	(6,760.76)	92.61
TOTAL REVENUES		(697,711.65)	703,397.00	(708,753.94)	100.76
Expenditures					
336	FIRE DEPARTMENT	654,900.00	669,300.00	669,300.00	100.00
TOTAL EXPENDITURES		654,900.00	669,300.00	669,300.00	100.00
Fund 206 - FIRE FUND:					
TOTAL REVENUES		697,711.65	703,397.00	708,753.94	100.76
TOTAL EXPENDITURES		654,900.00	669,300.00	669,300.00	100.00
NET OF REVENUES & EXPENDITURES		42,811.65	34,097.00	39,453.94	115.71

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDT USED
Fund 248 - EDDA OPERATING					
Revenues					
248-000-402.000	CURRENT PROPERTY TAX	(414,711.78)	426,099.00	(426,383.74)	100.07
248-000-402.001	PROPERTY TAX REFUNDS-MTT	0.00	(5,000.00)	0.00	0.00
248-000-402.100	PRIOR YEARS PROPERTY TAXES	0.00	250.00	0.00	0.00
248-000-420.000	DELQ PERSONAL PROPERTY CAPT	(67.84)	2,500.00	(2,143.16)	85.73
248-000-573.000	STATE AID REVENUE	0.00	0.00	(70,565.75)	100.00
248-000-665.000	INTEREST EARNED	(3,607.75)	1,800.00	(1,744.33)	96.91
248-000-671.000	OTHER REVENUE	(263.50)	500.00	(101.09)	20.22
TOTAL REVENUES		(418,650.87)	426,149.00	(500,938.07)	117.55
Expenditures					
000	NONE	1,260,310.20	639,678.00	480,391.97	75.10
336	FIRE DEPARTMENT	61,917.40	60,776.00	60,775.00	100.00
TOTAL EXPENDITURES		1,322,227.60	700,454.00	541,166.97	77.26
Fund 248 - EDDA OPERATING:					
TOTAL REVENUES		418,650.87	426,149.00	500,938.07	117.55
TOTAL EXPENDITURES		1,322,227.60	700,454.00	541,166.97	77.26
NET OF REVENUES & EXPENDITURES		(903,576.73)	(274,305.00)	(40,228.90)	14.67

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 250 - WDDA OPERATING					
Revenues					
250-000-402.000	CURRENT PROPERTY TAX	(499,594.05)	457,663.00	(457,662.49)	100.00
250-000-402.001	PROPERTY TAX REFUNDS-MTT	1,038.41	(8,500.00)	8,337.74	98.09
250-000-402.100	PRIOR YEARS PROPERTY TAXES	0.00	250.00	0.00	0.00
250-000-420.000	DELQ PERSONAL PROPERTY CAPT	(281.65)	400.00	(333.99)	83.50
250-000-573.000	STATE AID REVENUE	0.00	0.00	(6,837.57)	100.00
250-000-665.000	INTEREST EARNED	(1,306.34)	1,800.00	(1,592.41)	88.47
TOTAL REVENUES		(500,143.63)	451,613.00	(458,088.72)	101.43
Expenditures					
000	NONE	0.00	1,375.00	0.00	0.00
336	FIRE DEPARTMENT	39,022.56	37,317.00	37,316.28	100.00
996	TRANSFER OUT	220,000.00	220,000.00	220,000.00	100.00
TOTAL EXPENDITURES		259,022.56	258,692.00	257,316.28	99.47
Fund 250 - WDDA OPERATING:					
TOTAL REVENUES		500,143.63	451,613.00	458,088.72	101.43
TOTAL EXPENDITURES		259,022.56	258,692.00	257,316.28	99.47
NET OF REVENUES & EXPENDITURES		241,121.07	192,921.00	200,772.44	104.07

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 288 - TRIBAL 2% GRANTS FUND					
Revenues					
288-000-502.006	RIVER RD-WHITEVILLE TO LINCOLN	(104,717.00)	0.00	0.00	0.00
288-000-502.007	RIVER RD-LINCOLN TO CRAWFORD	(94,947.00)	0.00	0.00	0.00
288-000-665.000	INTEREST EARNED	(1,080.81)	950.00	(926.00)	97.47
TOTAL REVENUES		(200,744.81)	950.00	(926.00)	97.47
Expenditures					
728	ECONOMIC DEVELOPMENT	96,135.36	570,125.00	570,125.00	100.00
TOTAL EXPENDITURES		96,135.36	570,125.00	570,125.00	100.00
Fund 288 - TRIBAL 2% GRANTS FUND:					
TOTAL REVENUES		200,744.81	950.00	926.00	97.47
TOTAL EXPENDITURES		96,135.36	570,125.00	570,125.00	100.00
NET OF REVENUES & EXPENDITURES		104,609.45	(569,175.00)	(569,199.00)	100.00

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 590 - SEWER FUND					
Revenues					
590-000-456.000	HOOKUP FEE	(171,650.50)	210,000.00	(82,502.73)	39.29
590-000-627.000	SERVICE	(1,249,430.11)	1,249,656.00	(940,115.85)	75.23
590-000-627.100	DELINQUENT SEWER	0.00	(2,350.00)	2,341.07	99.62
590-000-628.000	INSPECTIONS	0.00	1,200.00	(1,200.00)	100.00
590-000-655.000	FINES & FORFEITURES	(35,941.84)	25,000.00	(30,349.61)	121.40
590-000-665.000	INTEREST EARNED	(12,293.58)	19,000.00	(16,396.70)	86.30
590-000-665.003	INTEREST EARNED - BOND RESERVES	(253.35)	600.00	(580.47)	96.75
590-000-669.001	INTEREST EARNED - SPECIAL ASSESSMENTS	(4,699.43)	5,000.00	0.00	0.00
590-000-670.000	DEBT RETIREMENT	(1,059,341.23)	1,060,162.00	(795,736.08)	75.06
590-000-670.100	DEBT SERVICE (SEWER 1) CITY ANNEX	(2,700.00)	1,000.00	(1,050.00)	105.00
590-000-671.000	OTHER REVENUE	(2,876.08)	6,700.00	(6,755.83)	100.83
590-000-672.500	REVENUE-SPECIAL ASSESS	0.00	0.00	(23,761.93)	100.00
590-000-673.000	GAIN ON SALE OF FIXED ASSETS	(554.21)	9,138.00	(9,138.00)	100.00
TOTAL REVENUES		(2,539,740.33)	2,585,106.00	(1,905,246.13)	73.70
Expenditures					
529	O & M EXPENDITURES	452,551.03	570,723.00	456,707.13	80.02
530	SEWER LIFT STATIONS	29,355.77	151,000.00	112,567.77	74.55
588	VEHICLE EXPENDITURES	15,158.96	49,700.00	32,907.08	66.21
611	WWTP	771,227.20	937,846.00	687,652.83	73.32
906	DEBT SERVICE	313,552.74	307,432.00	204,192.68	66.42
960	DEPRECIATION EXPENSE	574,614.18	700,000.00	0.00	0.00
TOTAL EXPENDITURES		2,156,459.88	2,716,701.00	1,494,027.49	54.99
Fund 590 - SEWER FUND:					
TOTAL REVENUES		2,539,740.33	2,585,106.00	1,905,246.13	73.70
TOTAL EXPENDITURES		2,156,459.88	2,716,701.00	1,494,027.49	54.99
NET OF REVENUES & EXPENDITURES		383,280.45	(131,595.00)	411,218.64	312.49

GL NUMBER	DESCRIPTION	END BALANCE 12/31/2015 DR (CR)	2016 AMENDED BUDGET	PERIOD BALANCE DR (CR)	% BDGT USED
Fund 591 - WATER FUND					
Revenues					
591-000-450.000	WATER SALES	(1,287,032.18)	1,300,000.00	(1,022,323.08)	78.64
591-000-450.100	BULK WATER SALES	(1,020.00)	3,200.00	(2,879.00)	89.97
591-000-450.200	FINAL READ	(1,785.00)	1,650.00	(1,620.00)	98.18
591-000-450.300	TURN-OFF	(3,150.00)	2,200.00	(1,750.00)	79.55
591-000-452.000	LATERALS	(2,937.60)	5,950.00	(5,946.96)	99.95
591-000-454.000	BENEFIT FEES	(38,955.00)	44,000.00	(43,574.25)	99.03
591-000-459.000	REVENUE-HOOK UP FEE	(78,499.90)	104,200.00	(82,731.40)	79.40
591-000-479.000	REVENUE-REPLACEMENT METERS	0.00	50.00	0.00	0.00
591-000-628.000	INSPECTIONS	0.00	2,700.00	(1,800.00)	66.67
591-000-655.000	FINES & FORFEITURES	(21,103.64)	20,000.00	(19,900.99)	99.50
591-000-665.000	INTEREST EARNED	(13,097.10)	17,500.00	(16,291.63)	93.10
591-000-667.300	LEASES - TOWER RENTAL	(40,118.65)	40,000.00	(35,267.25)	88.17
591-000-669.001	INTEREST EARNED-SPEC ASSESS	(9,772.80)	6,911.00	(31.96)	0.46
591-000-671.000	OTHER REVENUE	(21,180.65)	3,000.00	(2,874.66)	95.82
591-000-672.500	REVENUE-SPECIAL ASSESS	(30,817.56)	9,682.00	(15,038.82)	155.33
591-000-673.000	GAIN ON SALE OF FIXED ASSETS	(1,594.79)	500.00	(598.00)	119.60
TOTAL REVENUES		(1,551,064.87)	1,561,543.00	(1,252,628.00)	80.22
Expenditures					
536	WATER O & M	856,339.92	969,645.00	851,671.46	87.83
537	WATER WELLS	8,310.06	50,500.00	39,168.90	77.56
538	TREATMENT PLANT	47,221.20	76,000.00	67,306.23	88.56
539	WATER TOWER	13,550.71	60,000.00	13,328.20	22.21
588	VEHICLE EXPENDITURES	12,768.90	33,550.00	33,623.07	100.22
906	DEBT SERVICE	68,786.48	67,284.00	65,705.00	97.65
960	DEPRECIATION EXPENSE	292,742.39	300,000.00	0.00	0.00
TOTAL EXPENDITURES		1,299,719.66	1,556,979.00	1,070,802.86	68.77
Fund 591 - WATER FUND:					
TOTAL REVENUES		1,551,064.87	1,561,543.00	1,252,628.00	80.22
TOTAL EXPENDITURES		1,299,719.66	1,556,979.00	1,070,802.86	68.77
NET OF REVENUES & EXPENDITURES		251,345.21	4,564.00	181,825.14	3,983.90
TOTAL REVENUES - ALL FUNDS					
TOTAL REVENUES - ALL FUNDS		7,765,570.37	7,538,849.00	6,255,727.05	82.98
TOTAL EXPENDITURES - ALL FUNDS		7,244,172.09	8,242,084.04	6,042,909.30	73.32
NET OF REVENUES & EXPENDITURES		521,398.28	(703,235.04)	212,817.75	30.26



REQUEST FOR TOWNSHIP BOARD ACTION

To: Mark Stuhldreher – Township Manager

DATE: 12-7-2016

FROM: Kim Smith – Public Works Coordinator

DATE FOR BOARD CONSIDERATION: 12-21-2016

ACTION REQUESTED: Approval of the purchase of jackhammer attachment and pins for 2013 Cat Backhoe from Michigan CAT in the amount of \$13,235.00.

Current Action Emergency

Funds Budgeted: If Yes Account # 591-588-934.201 & 590-588-934.201 No
N/A

Finance Approval MDS

BACKGROUND INFORMATION

The Charter Township of Union Public Works Department owns a 2013 CAT Backhoe that is used for excavation work and projects related to water and sewer. The 2016 water and sewer budgets both include a line item in the amount of \$10,000.00 each to purchase a jackhammer attachment for the backhoe. The cost of this purchase would be split evenly between the water and sewer funds.

Outlined below are costs from three suppliers to purchase a new jackhammer attachment. All three of these brands will require the purchase of a set of pins which will be an additional \$385.00.

Supplier/Brand	Cost Jackhammer & Pins
Michigan CAT – CAT H65E (silenced)	\$13,235.00
AIS Equipment – Stanley Breaker (silenced)	\$13,385.00
Alta Equipment – SJ Hammer (silenced)	\$13,885.00

SCOPE OF SERVICES

One time purchase of backhoe jackhammer and pins for 2013 CAT Backhoe

JUSTIFICATION

This attachment will primarily be used in the winter months to break frost when emergency water and sewer repairs need to be made. These repairs often need to be made at night or on weekends when availability of leased equipment is limited. The equipment can also be utilized to remove sidewalks and asphalt to complete water and sewer hookups, repairs, and installation of mains.

PROJECT IMPROVEMENTS

The following Board of Trustees goals are addressed with this request (from Policy 1.0: Global Ends)

1. Community well-being and common good
2. Safety
3. Health

COSTS

\$13,235.00

PROJECT TIME TABLE

IN STOCK – DELIVERY TIME 1 – 2 WEEKS

RESOLUTION

Authorization is hereby given to... purchase an H65E jackhammer attachment and pins for 2013 Cat Backhoe from Michigan CAT in the amount of \$13,235.00.

Resolved by _____ Seconded by _____

Yes:
No:
Absent:

Kim Smith

From: John Bebow
Sent: Friday, December 02, 2016 11:57 AM
To: Kim Smith
Subject: FW: Backhoe Hammers from Michigan CAT

From: Joshua Buchanan [<mailto:Joshua.Buchanan@MICHIGANCAT.com>]
Sent: Wednesday, November 02, 2016 12:38 PM
To: John Bebow
Subject: Backhoe Hammers from Michigan CAT

John,

Below are the prices:

NEW CAT H65E (Non-Silenced)—\$11,850

NEW CAT H65E (Silenced)—\$12,850 + 385 = \$13,235.00

NEW CAT H75E (Silenced)—\$19,500

We've got a few H65's & H75's in our rental fleet but they're all currently out on rent. I can keep checking to see when they become available if you'd like to go down the used route. Otherwise, we can order a new unit and should be about 2 weeks. These come with 18 months @ 0% as well if you wanted to finance.

Thanks again, I appreciate it.

Joshua M. Buchanan
Account Representative
Michigan CAT
7700 Caterpillar Ct.
Grand Rapids, MI 49548
Mobile: 616-262-2952
Fax: 866-947-2715



Cat[®] Hammers

H35Es, H45Es, H55Es, H65Es
H35E, H45E, H55E, H65E

FEATURES:

Built for Your Convenience, Comfort

- Cat[®] Hammers are designed for optimum performance and integration with your Cat compact construction equipment. They can also be utilized with non-Cat carriers.
- Plug & Perform. No adjustment to pressures or flows is necessary. Ports are positioned for convenient installation on your Cat carrier. Hoses are protected.
- Hammers with fully enclosed housings are silenced with a lower overall noise level for a quieter, safer job site. Side plate constructed housings are also available.
- Tri-suspension system on silenced models guides the power cell and gives manageable, smooth performance. The result is a hammer that's comfortable and responsive to operate.
- Gas-fired operating cycle delivers consistent, reliable performance over time. Hammers are reliable when breaking materials like non-reinforced concrete, asphalt and cinder block.

Built for Performance, Lasting Value

- Automatic shut-off protects the hammer from blank firing, a key contributor to hammer wear. Internal stresses are reduced providing more productive hours of work. Hammer is protected, regardless of operator skill level.
- Hammers adjust automatically to flows and pressures of your Cat carrier providing top performance and long service life.

- Seal carrier provides maximum gas retention and reliable performance. New design incorporates innovative technology.
- Tri-suspension system on silenced models protects the power cell and assures reliable operation.

Built for Quick, Easy Maintenance

- Grease point is ergonomically located at standing height making it comfortable and easy to access.
- Tool changes are simple and easily accomplished with common hand tools.
- Power chamber and accumulator pressures can be checked and charged while the hammer is mounted on the machine.
- Single bushing design is slip fit and field-replaceable. One piece provides proper tool alignment.
- Cat hammers are designed to rebuild easily, providing lasting value for your hammer investment.

Completely Cat[®]

- E Series hammers bring together your performance, quality, and serviceability expectations alongside our design, manufacturing and logistics experience. E Series hammers are completely Cat: from the inside out.

Hammer / Machine Compatibility

Skid steer and multi terrain loaders, mini-excavators and backhoe loaders. Contact your Cat dealer for specific machine configurations.

Model Machines

H35E/Es 301.4, 301.7, 301.8, 302.2, 302.4

H45E/Es 301.7, 301.8, 302.2, 302.4, 302.5, 302.7

H55E/Es 216, 226, 236, 242, 246, 247, 252, 257, 259, 262, 272, 277, 279, 287, 289, 297, 299, 302.5, 302.7, 303.5, 304, 305, 305.5

H65E/Es 216, 226, 236, 242, 246, 247, 252, 257, 259, 262, 272, 277, 279, 287, 289, 297, 299, 303.5, 304, 305, 305.5, 307, 308, 416, 420, 430



Americas North



Cat Hammers

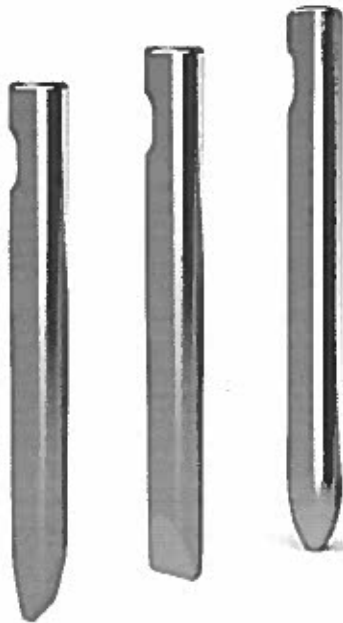
Built for Your Convenience



Easy to Tune & Maintain — Gas ports and valves are easy to check and charge while the hammer is mounted to the machine.

Fully Enclosed, Silenced housing lowers overall noise level for a quieter, safer job site. Internal power cell is protected. Designed and engineered to eliminate stress points.

Standing Height Grease Point means required maintenance is comfortable and easy to do.



Tools are heat-treated, matched to piston diameter and mass to deliver full blow energy.

Non-silenced, side plate housing models are available.

Flat top

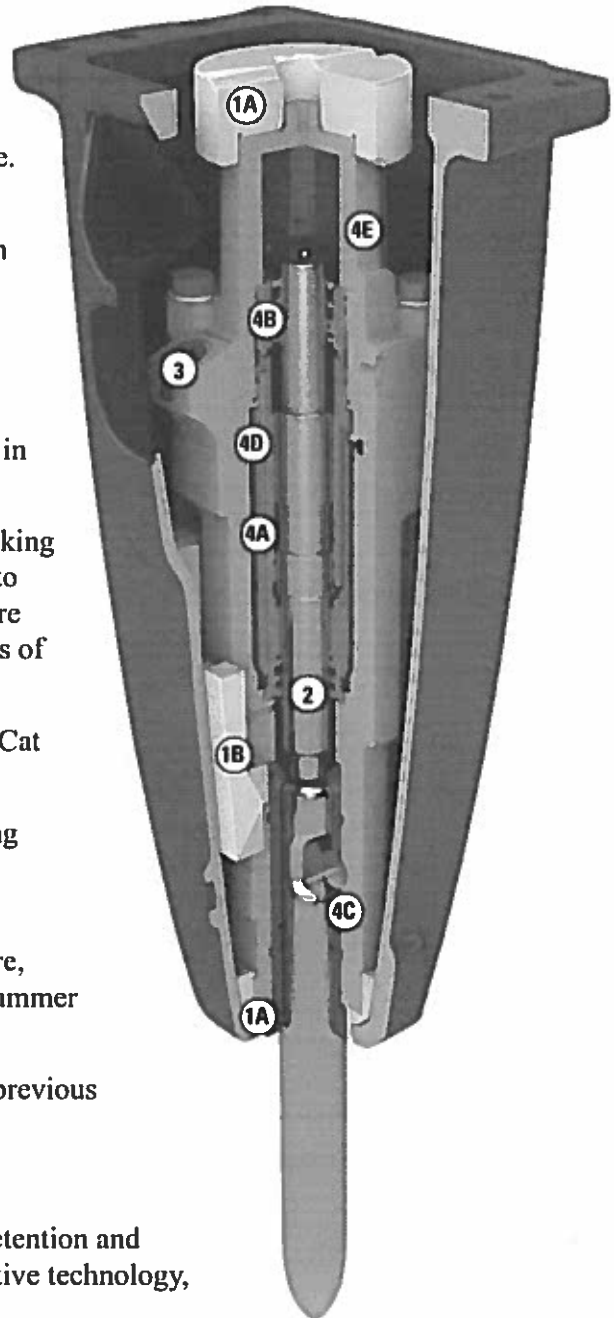


Pin-on



Built for Quick & Easy Maintenance, Lasting Value

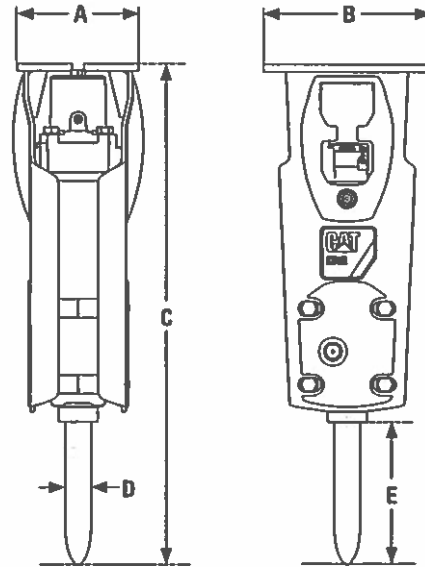
- ① **Tri-Suspension System** – This unique suspension system on the silenced models comprises the suspension jacket, the upper and lower buffers. Suspension aligns the power cell and gives manageable, smooth performance.
 - ①A **Upper & Lower Buffers** – Buffers at both ends of the power cell absorb reflective forces, isolating them from the machine. Result is quiet, reliable operation and reduced operator fatigue.
 - ①B **Suspension Jacket** – The front head is isolated by the two-piece suspension jacket, which dampens vibration and sound. A lower dBa allows the hammer to be used in urban and other noise restricted areas.
- ② **Auto Shut Off (ASO)** – Instantly stops the piston when breaking through material. Prevents blank firing, a key contributor to hammer wear. Internal stresses are reduced, providing more productive hours of work. Hammer is protected, regardless of operator skill level.
- ③ **Plug & Perform** – Designed for convenient installation on Cat machines.
 - ③A **Ports positioned for hose protection** – Improved routing eliminates downtime from breakage.
 - ③B **No adjustment necessary** for hydraulic pressures or flows. Hammer handles full auxiliary flow and pressure, automatically adjusting to match your Cat machine. Hammer over speeding and shortened service are prevented.
- ④ **Simple, Elegant Design** – 47% fewer parts (compared to previous models) provides quick, easy maintenance and service.
 - ④A **Single Piece Piston Sleeve** replaces easily.
 - ④B **Easy-to-remove Seal Carrier** provides maximum gas retention and reliable performance. New design incorporates innovative technology, with five gas retention seals on the power chamber.
 - ④C **Single Bushing Design** is slip fit and field-replaceable. One piece provides proper tool alignment (includes lower and upper bushing and thrust ring).
 - ④D **Integral Accumulator** on H55E/Es and H65E/Es provides additional protection for the machine's hydraulic system.
 - ④E **Valve Body & Front Head** – Power cell is efficiently designed, with only two major components. They are held together by head bolts rather than tie rods. Bolts are simpler to install and service.



Cat Hammers

Built to Your Specifications

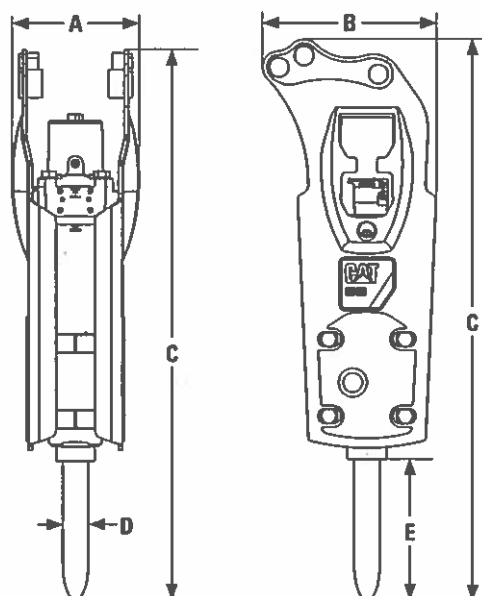
Flat Top Models



		H35Es	H35E	H45Es	H45E	H55Es
Specifications						
Recommended Carrier	t	1.1–2.4	1.1–2.4	1.5–3.2	1.5–3.2	2.5–6
Weight Range	(lb)	(2,430–5,300)	(2,430–5,300)	(3,310–7,060)	(3,310–7,060)	(5,500–13,200)
Operating Weight Range*	kg	125–130	125–130	145–250	145–250	260–345
	(lb)	(276–287)	(276–287)	(320–551)	(320–551)	(573–761)
Impact Frequency	blows/min.	600–1,800	600–1,800	780–1,800	780–1,800	600–1,680
Energy Class	J	407	407	542	542	813
	(ft-lb)	(300)	(300)	(400)	(400)	(600)
Rated Flow	lpm	12–35	12–35	25–62	25–62	30–85
	(gpm)	(3.2–9.2)	(3.2–9.2)	(6.6–16)	(6.6–16)	(7.9–22)
Operating Pressure, maximum	kPa	16,500	16,500	17,000	17,000	16,500
	(psi)	(2,393)	(2,393)	(2,465)	(2,465)	(2,393)
Dimensions						
A Width	mm	300	284	300	296	346
	(in)	(11.81)	(11.17)	(11.81)	(11.65)	(13.62)
B Length	mm	311	345	311	345	451
	(in)	(12.22)	(13.58)	(12.22)	(13.58)	(17.76)
C Height	mm	860	871	1,006	1,017	1,108
	(in)	(33.86)	(34.29)	(39.61)	(40.04)	(43.62)
D Tool Diameter, top	mm	40	40	50	50	58
	(in)	(1.57)	(1.57)	(1.97)	(1.97)	(2.28)
E Tool Working Length	mm	240	240	269	269	324
	(in)	(9.45)	(9.45)	(10.59)	(10.59)	(12.76)

Built to Your Needs

Pin-on Models



		H55E	H55E*	H65Es	H65E	H65E*
Specifications						
Recommended Carrier	t	2.5–6	2.5–6	3–9	3–9	3–9
Weight Range	(lb)	(5,500–13,200)	(5,500–13,200)	(6,600–19,800)	(6,600–19,800)	(6,610–19,800)
Operating Weight Range*	kg	250–340	220–315	315–390	305–380	260–355
	(lb)	(551–750)	(485–695)	(695–860)	(673–838)	(573–783)
Impact Frequency	blows/min.	600–1,680	600–1,680	720–1,740	720–1,740	720–1,740
Energy Class	J	813	813	1,085	1,085	1,085
	(ft-lb)	(600)	(600)	(800)	(800)	(800)
Rated Flow	lpm	30–85	30–85	40–115	40–115	40–115
	(gpm)	(7.9–22)	(7.9–22)	(10–30)	(10–30)	(10–30)
Operating Pressure, maximum	kPa	16,500	16,500	16,500	16,500	16,500
	(psi)	(2,393)	(2,393)	(2,393)	(2,393)	(2,393)
Dimensions						
A Width	mm	328	333	345	332	337
	(in)	(12.91)	(13.09)	(13.06)	(13.07)	(13.26)
B Length	mm	445	344	451	445	453
	(in)	(17.52)	(13.56)	(17.76)	(17.52)	(17.83)
C Height	mm	1,156	1,323	1,324	1,306	1,454
	(in)	(45.51)	(52.08)	(52.13)	(51.43)	(57.23)
D Tool Diameter, top	mm	58	58	68	68	68
	(in)	(2.28)	(2.28)	(2.68)	(2.68)	(2.68)
E Tool Working Length	mm	324	324	371	371	371
	(in)	(12.76)	(12.76)	(14.61)	(14.61)	(14.61)

* Pin-on model

Cat Hammers

Built for Your Construction & Demolition Projects...

Hammers of this size excel at breaking cinder block, brick, asphalt and pavement extending the use of your smaller building and construction equipment into site prep and light demolition work. Contact your local Cat dealer to see the complete line of Cat hammers for your larger equipment. Tackle reinforced concrete and rock breaking for your heavy demolition, mining and quarry projects.

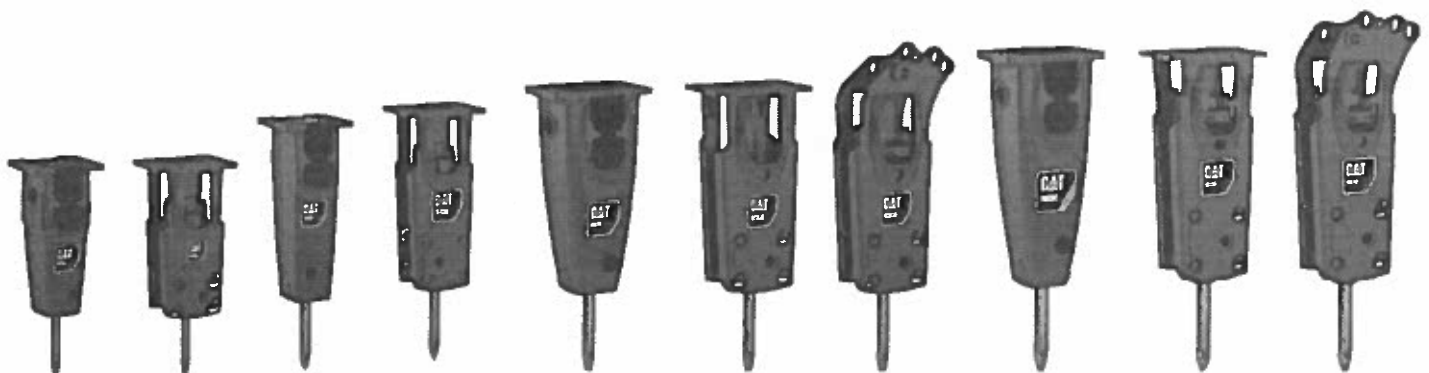
APPLICATIONS

			Mini-Excavator		Skid Steer & Multi Terrain Loader	
			H35E/Es	H45E/Es	H55E/Es	Backhoe Loader H65E/Es
Construction						
Site prep, Landscaping	Ground excavation	Pipelines, municipalities				
		Frozen ground				
	Asphalt cutting	Driveways, roads				
	Compaction	Municipalities				
Demolition						
Concrete	Light	Sidewalks, driveways				
	Standard	Reinforced concrete 3"-20"				
Masonry	Cinder block, brick	Walls				
Pavement	Asphalt breaking	Driveways, roads				
	Concrete, composite	Roads				
Metallurgical						
Cleaning		Refractory linings in furnaces				

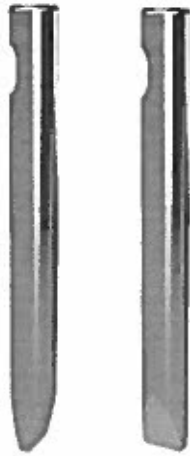
PRODUCTIVITY RATES

Production rates listed are for an 8-hour shift. They are for general estimation purposes only. Actual working results may vary.

Hammer Model	Non-Reinforced Concrete	
	m ³	yd ³
H35E/Es	6-12	(8-16)
H45E/Es	8-18	(10-23)
H55E/Es	14-23	(18-30)
H65E/Es	45-90	(34-69)



...with the Tools You Need to Get the Job Done



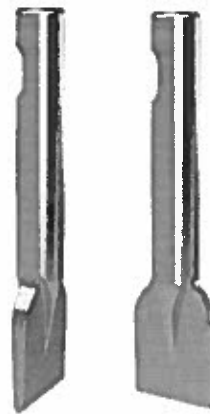
Chisel (C)

Use for general breaking, demolition, asphalt cutting and demolition of concrete or brick walls.



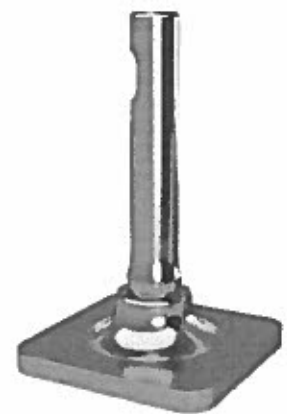
Moil (M)

Select for making holes, breaking light, reinforced concrete and general breaking and demolition.



Spade (S)

Use for general breaking and asphalt cutting.



Compacting Plate (CP)

Perfect when you need to compact soil.

	H35E/Es	H45E/Es	H55E/Es	H65E/Es
Road building / construction				
Breaking of road surface	C, M, S	C, M, S	C, M, S	C, M, S
Asphalt cutting	C, S	C, S	C, S	C, S
Demolition of bridges	C, M	C, M	C, M	C, M
Compacting soils	CP	CP	CP	CP
Making holes (for traffic signs, lamp posts)	M	M	M	M
Breaking of frozen ground	C, M, S	C, M, S	C, M, S	C, M, S
Demolition / housing development				
Demolition of concrete walls, roofs, floors	C, M	C, M	C, M	C, M
Demolition of light, reinforced concrete (<20")	M	M	M	M
Brick walls	C, M	C, M	C, M	C, M
Separating rebar from concrete (for recycling)	C, M	C, M	C, M	C, M
Metallurgical applications				
Breaking of refractory linings in furnaces	C, M	C, M	C, M	C, M

Kim Smith

From: John Bebow
Sent: Friday, December 02, 2016 11:56 AM
To: Kim Smith
Subject: FW: Stanley Breaker
Attachments: Document.pdf

From: Ely, Jeff [<mailto:JEly@aisequip.com>]
Sent: Tuesday, November 22, 2016 12:20 PM
To: John Bebow
Subject: Stanley Breaker

John,
The Stanley breaker is \$13,000.00 delivered. The breaker model is MB656. $+385 = \$13,385$

Jeff Ely
Governmental Sales Manager
C 517-204-2127
F 517-321-6275
O 517-321-8000



Disclaimer: No agent, employee, or representative of AIS Construction Equipment Corporation has any authority to bind AIS to any affirmation, promise, representation, or warranty, unless it is expressly made and agreed to in a written and fully executed Sales Contract. No information in this communication shall become part of any contract for sale unless expressly agreed to by AIS in a fully executed Sales Contract.



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Small Mounted Breakers

MB156 / MB256 / MB05 / MB556 / MB656 / MBX15

Stanley's mounted breakers are designed and built to power through the most demanding tasks on the job-site. You are packing some serious force to break materials in a wide array of markets and applications. Stanley's mounted products are available for all carrier classes.

Features:

- Advanced breaker design technology for output energy and efficiency.
- Minimal moving parts, only two for less maintenance, better performance and less service.
- Superior valve design for operation within a broader range of pressures and flows with less heat and stress on components.
- Added steel reinforcement at lower end of housing to protect housing and power-cell.
- Side-plate bolt locking system keeps bolts from loosening.
- Lighter weight allowing choice of smaller carrier.
- Supported power-cell by rubber cushions and urethane wear plates to absorb shock and vibration and reduce wear - MB556, MB656 and MBX15.
- Box style housing - MB556, MB656 and MBX15.
- Direct acting nitrogen chamber boosts the power of each hammer blow.

SPECIFICATIONS

MODEL	DESCRIPTION
MB15600	Stanley - Excavator Mount - 6" and 4" Pin Centers
MB15614	Stanley - Excavator Mount - Flange Top
MB15641	Black, Q - Tach for Walk Behind - 6" and 4" Pin Centers
MB25600	Stanley - Excavator Mount - 9" Pin Centers
MB25600SS	Stanley - Skid Steer - 9" Pin Centers
MB25603	Stanley - Excavator Mount - Flange Top
MB25641	Black, Q - Tach for Walk Behind - 9" Pin Centers
MB2570	Excavator Mount - 11" Pin Centers
MB2570SB	Cradle Skid Steer - 11" Pin Centers
MB2570SS	2 Position Skid Steer - 11" Pin Centers
MB2570XC	Excavator Mount - Exchange Top
MB2570XCS	Skid Steer with Exchange Top
MB05e00	Stanley - Excavator Mount - 9" Pin Center and Flange Top

DOCUMENTS

- [MB656 User Manual](#)
- [MB556 User Manual](#)
- [MB05 User Manual](#)
- [MB256 User Manual](#)
- [MB156 User Manual](#)
- [MB05 Spec Sheet](#)
- [MB Series Spec Sheet](#)
- [MBX15 User Manual](#)

VIDEOS

[Stanley Hydraulic Tools Mounted Breakers](#)



MODEL	DESCRIPTION
MB05s02	Stanley - 4 Position Cradle Skid Steer - 9" Pin Centers and Flange Top
MB05e04	Stanley - Excavator Mount - CP027 Top
MB05s04	Stanley - Skid Steer with CP027 Top
MB05e05	Stanley - Excavator Mount - Exchange Top
MB05s05	Stanley - Skid Steer with Exchange Top
MB55600	Stanley - Excavator Mount - Flange Top
MB55600SS	Stanley - Skid Steer - Fixed 20 Degrees
MB55601	Stanley - Excavator Mount - 14" Pin Centers
MB55607	Stanley - Excavator Mount - 14" Pin Centers
MB5570SB	Stanley - Skid Steer - Fixed 20 Degrees
MB5570XC	Stanley - Excavator Mount - Exchange Top
MB5570XCS	Stanley - Skid Steer with Exchange Top
MB65603	Stanley - Excavator Mount - Flange Top
MB65607	Stanley - Excavator Mount - 14" Pin Centers
MB65609	Stanley - Excavator Mount - 1/4 Yard WainRoy
MB6560XC	Stanley - Excavator Mount - Exchange Top
MBX15E03	Flange Top
MBX15E00	14" PIN Center BRKT
MBX15E09	1/4 YD Wainroy BRKT

DESCRIPTION	IMPERIAL UNITS	MB156	MB256	MB05	MB556	MB656	MBX15
Impact Energy Class	Ft/lbs	175	350	550	750	870	1500
Blows Per Minute	BPM	600-1200	700-1200	650-1550	590-1100	600-1000	400-800
Weight (Tool & Mounting Brkt)	Lbs (kg)	173 (79)	493 (224)	480 (218)	752 (340)	872 (396)	1168 (531)
Length (Tool & Mounting Brkt)	In (mm)	42 (1069)	51 (1295)	53 (1350)	63 (1600)	66 (1689)	69 (1760)
Tool Working Length	In (mm)	11 (279)	15 (381)	15 (381)	15 (381)	18 (457)	16.6 (426)
Tool Diameter	In	1.75 (44)	2.5 (64)	2.6 (67)	2.7 (69)	3 (76)	3.3 (85)
Hydraulic Pressure	PSI	1800-2100	1400-1700	1500-2000	1600-2000	1700-1900	1885-2200
Flow Range	GPM	4-10	9-16	10-22	12-22	16-24	15-25

DESCRIPTION	IMPERIAL UNITS	MB156	MB256	MB05	MB556	MB656	MBX15
System Relief Pressure (Minimum Cracking)	PSI	2600	2600	2600	2600	2600	3000
Sound Power Level (LW)	dBA	116	122	125	124	121	126

DESCRIPTION	METRIC UNITS	MB156	MB256	MB05	MB556	MB656	MBX15
Impact Energy Class	J	250	475	750	1000	1200	2030
Hydraulic Pressure	BAR	124-144	96-117	100-140	110-138	117-131	130-152
Flow Range	LPM	15-38	34-60	38-83	45-83	60-81	56-85
System Relief Pressure (Min. Cracking)	BAR	180	180	180	180	180	206
Sound Power Level (LW)	dBA	116	122	125	124	121	126

ACCESSORIES



RELATED PRODUCTS



Drop Hammers



Large Mounted Breakers



Vibratory Plate Compactors

Applications

Demolition
 Search & Rescue
 Municipal Water
 Underwater
 Railroad Maintenance of Way
 Rail Signal, Communications & Catenary
 Recycling
 Light Construction
 Electric Utility

Brands

Stanley
 LaBounty
 Dubuis
 Horst Sprenger GmbH
 recycling tools

Resources

Document Library
 Video Library
 Catalogs
 Industry Links
 Literature Fulfillment
 Technical Information
 New, Used and Reconditioned Tools

Company

News & Events
 Careers
 Approvals, Compliance & Certifications
 Warranty
 Terms & Conditions

Kim Smith

From: John Bebow
Sent: Friday, December 02, 2016 11:56 AM
To: Kim Smith
Subject: FW: Alta Equipment - Hammer Quote
Attachments: SJ Hammer Spec's ALTA Hammer (Brochure) (3).pdf

From: Paul Daugharty [<mailto:paul.daugharty@altaequipment.com>]
Sent: Wednesday, November 30, 2016 3:28 PM
To: John Bebow
Subject: Alta Equipment - Hammer Quote

Hello John,

Thank you for the opportunity to quote this machine. Attached is the spec sheet for the Silent Box SJ400 Hammer. The hammer is completely enclosed and Alta has sold tons of them throughout the state. Companies like Bierlein, Dans Excavating and many more have our hammers. The hammer I have quoted has a 3" tool vs a 2.5" tool that CAT quoted. It is a bigger hammer then the CAT and will definitely do everything you need it to complete your work. Please give me a call if you have any questions. Thanks and talk to you soon.

SJ400 Silent Box Hammer w/ Tool Kit, 1 point and head - \$13,500 + 385 = \$13,885.00

Regards,

Paul Daugharty
Account Manager
Sales-Rental & Service
Direct: 989-413-2754
E-Fax: 989-540-5906
paul.daugharty@altaequipment.com
Visit us @ www.altaequipment.com

Alta Equipment is committed to products of the highest quality and serving the needs of our customers at a level that fosters "Customers for Life."



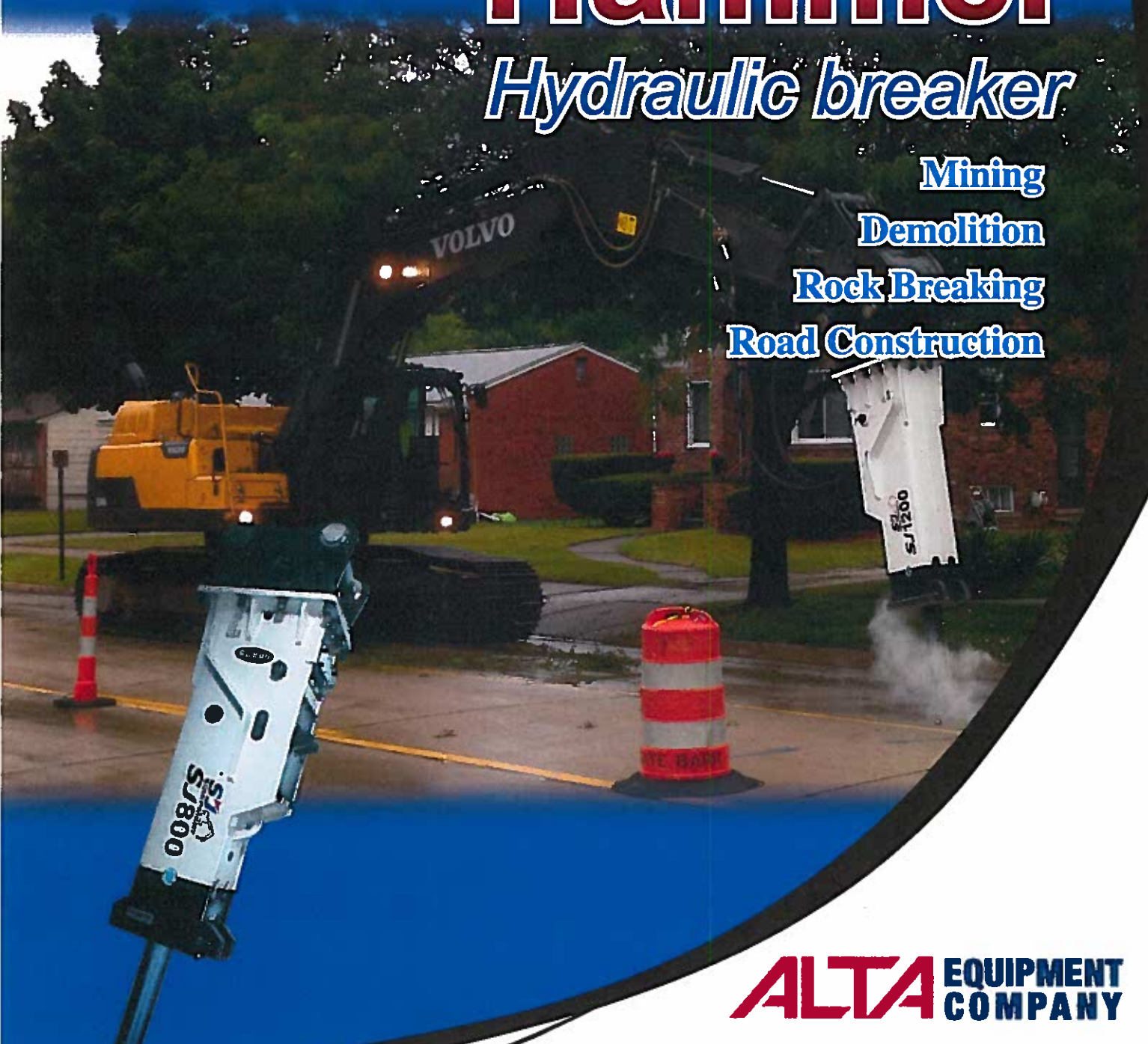
↑
Click here to find out more.



Hammer

Hydraulic breaker

Mining
Demolition
Rock Breaking
Road Construction



ALTA EQUIPMENT COMPANY

56195 Pontiac Trail
New Hudson, MI 48165

(248) 356-5200
Fax (248) 356-2029
www.allaequipment.com

HYDRAULIC BREAKER

Robust design
Majestic power
Low noise & less vibration

Silence(BOX)

Silence(Top plate)

Top adapter

Trench



SJ Silence (=Box)type

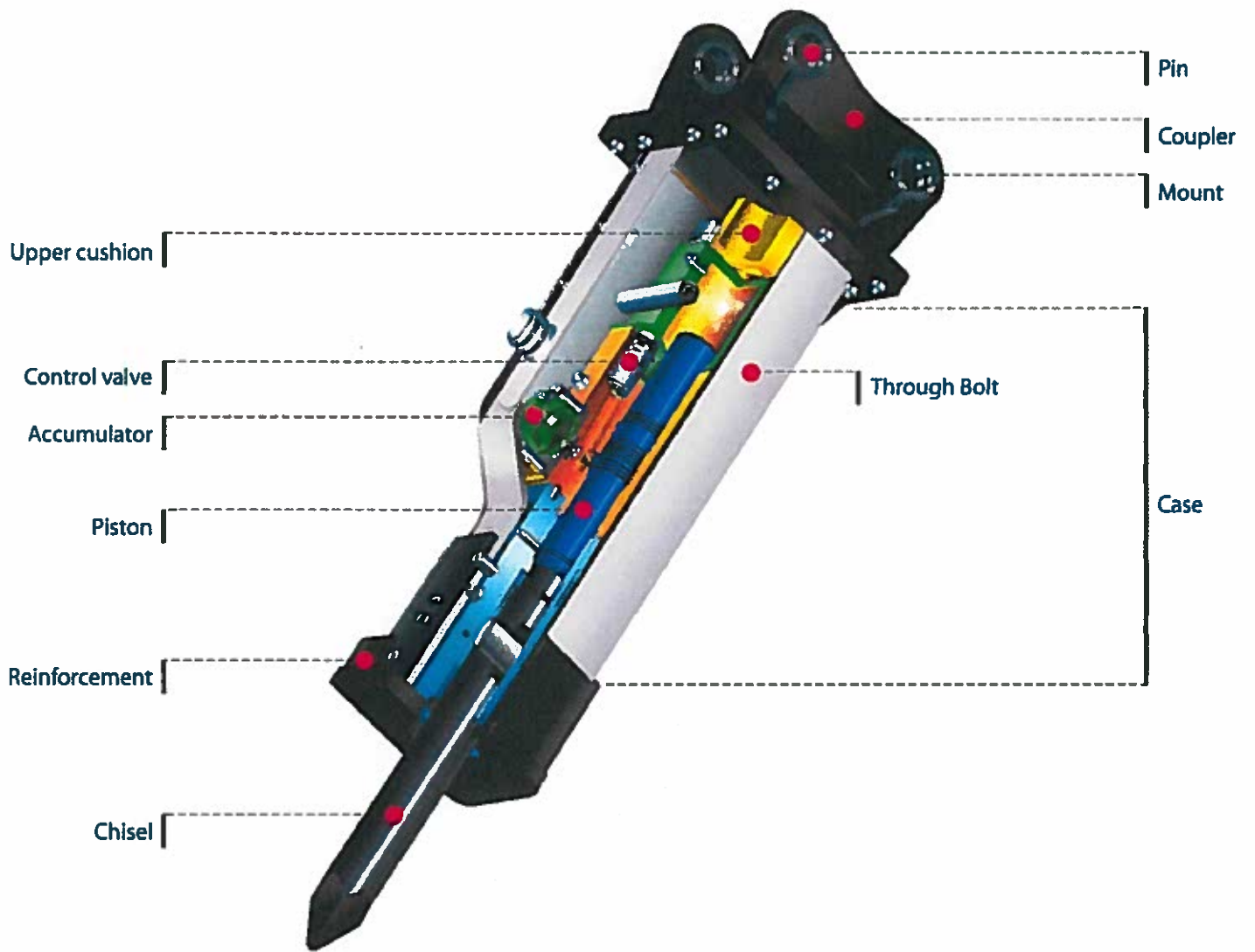
Compact

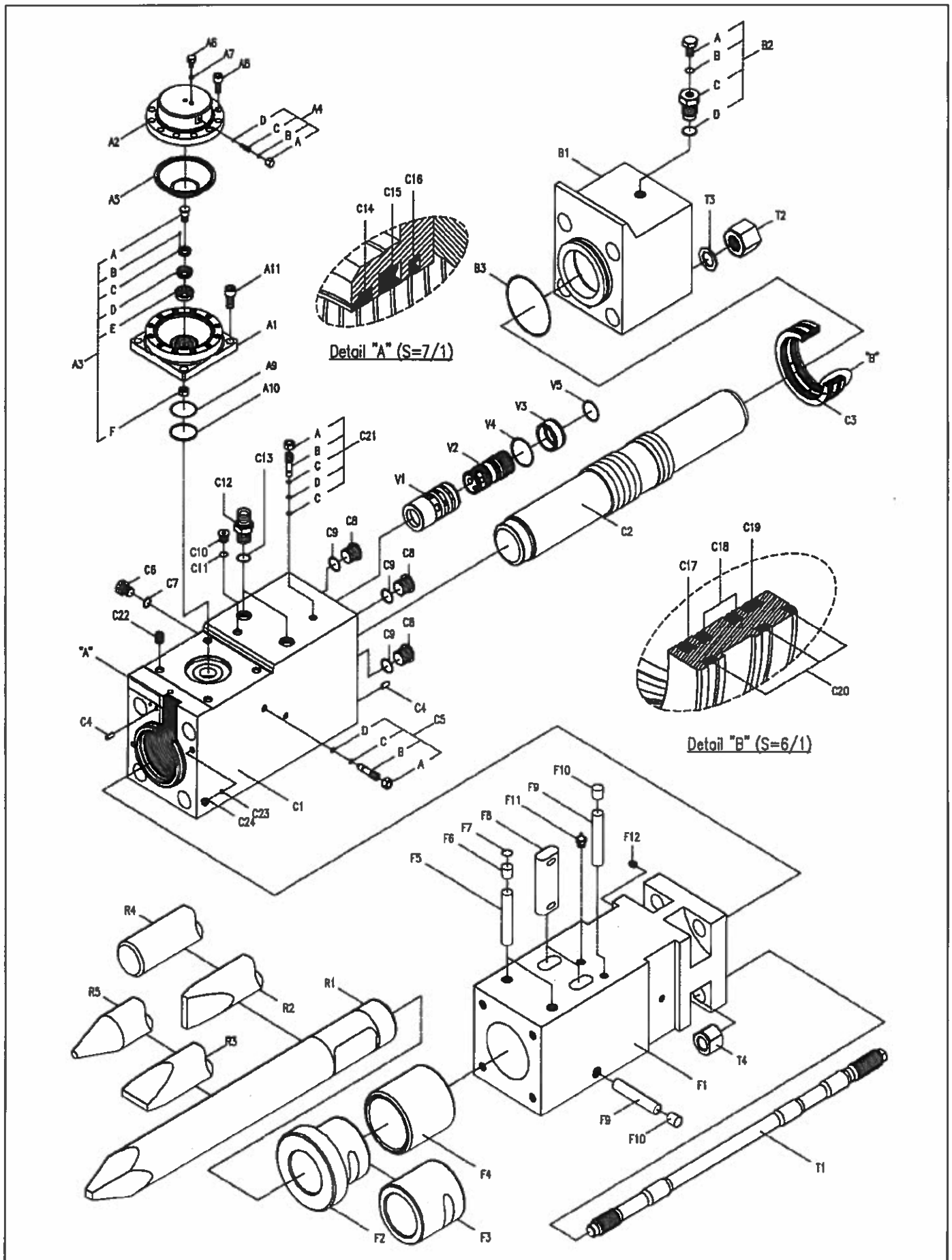
SJ BOX	UNIT	SJ-50	SJ-70	SJ-100	SJ-210	SJ-300	SJ-400	SJ-500	SJ-600
WT.	kg	100	134	148	186	304	405	530	880
	lb	220	295	326	409	625	891	1168	1936
Length	mm	1087	1215	1285	1363	1682	1684	2068	2361
	inch	42.8	47.8	50.6	53.7	66.2	66.3	81.4	93
Operating pressure	bar	80~100	100~120	100~120	110~130	140~160	140~160	120~150	150~170
	psi	1160~1450	1450~1740	1450~1740	1595~1885	2031~2321	2031~2321	1707~2133	2176~2466
Required oil flow	ℓ/min	10~20	15~25	25~40	25~45	30~45	40~70	60~100	80~120
	gal/min	2.6~5.3	4.0~6.6	6.6~10.6	6.6~11.9	7.9~11.9	10.8~18.4	15.8~26.4	21.1~31.7
Impact rate	bpm	700~1200	700~1200	550~1000	500~900	500~800	400~800	400~800	400~700
Impact energy (1 J = 0.7376 ft-lb)	joule	180	254	286	447	620	945	1029	2630
	ft-lb	133	187	211	330	457	697	759	1940
Hose diameter	mm	9	12	12	12	12	12	19	19
	inch	3/8	3/8	1/2	1/2	1/2	1/2	3/4	3/4
Tool diameter & weight	mm	36	45	53	60	68	75	85	100
	inch	1.4	1.8	2.0	2.2	2.7	3.0	3.3	3.9
	kg	4	6	10	14	18	26	40	60
Excavator	ton	0.8~2.5	1.2~3.0	2.5~4.5	3.0~5.5	4.0~7.0	6~9	7~12	11~16
	m ²	under 0.04	0.03~0.07	0.06~0.1	0.08~0.2	0.15~0.25	0.2~0.4	0.3~0.5	0.45~0.6
	ft ²	under 1.4	under 2.5	2.2~3.5	2.5~7	5.3~8.8	7.0~14.1	10.6~17.7	16~21.2

The most productive,
Innovative and reliable
equipment for building and
demolishing in construction fields.



SJ BOX	UNIT	Medium			Heavy	
		SJ-700	SJ-760	SJ-800	SJ-1200	SJ-1500
WT.	kg	1307	1462	1903	2495	3957
	lb	2750	3223	4187	5410	8763
Length	mm	2615	2701	2822	3306	3838
	inch	103	106.3	111.1	130.2	151.1
Operating pressure	bar	150~180	160~180	160~180	160~180	160~180
	psi	2176~2610	2320~2610	2320~2610	2320~2610	2320~2610
Required oil flow	ℓ/min	100~140	100~150	130~170	170~230	200~300
	gal/min	26~36	26~39.6	34.3~44.9	45~62	52.8~79.3
Impact rate	bpm	400~600	400~600	400~600	300~400	250~350
Impact energy (1 J = 0.7376 ft-lb)	joule	5011	5901	7329	13557	16269
	ft-lb	3696	4353	5406	10000	12000
Hose diameter	mm	25	25	25	32	32
	inch	1	1	1	1 1/4	1 1/4
Tool diameter & weight	mm	125	135	140	155	175
	inch	4.9	5.3	5.4	6.1	6.9
	kg	97	112	133	180	247
Excavator	ton	15~20	16~22	21~29	30~43	42~60
	m ³	0.5~0.8	0.7~0.9	0.8~0.9	1.2~1.9	1.8~3.2
	ft ³	19~31	25~32	28~45	45~67	64~113





Combination / Multi-processor (One/Two-point type)

15. Combination (COMBI)

Combination is one-cylinder type of combination-processor for high level performance.

- Three different jaw sets – for shearing, demolition and pulverizing (no crusher)
- Interchangeable jaws offer the flexibility with minimum investment.

Jaw exchange



Shear (rotation)



Pulverizer (rotation)



Demolition (rotation)

16-1. Multi – processor (M)

Two Cylinder Attachment (Jaw exchange)

One-point type Rotation



Shear



Crusher

16-2. Multi - processor (M)

Two Cylinder Attachment (Jaw exchange)

Two-point type Rotation



Shear



Crusher

Combination / Multi-processor (One/Two-point type)

15. Combination (COMBI)

Pulverizer	Unit	Combi 230R Series			Combi 330R Series		
		S230R	D230R	P230R	S330R	D330R	P330R
Operating Weight	kg	2,100	2,000	2,150	2,600	2,700	2,800
	lb	4,630	4,410	4,740	5,732	5,952	6,172
Overall Length	mm	2,148	2,136	2,234	2,250	2,240	2,388
	Inch	84.56	84	87.95	88.58	88.19	93.70
Overall Width	mm	1,182	1,249	1,354	1,220	1,280	1,400
	Inch	46.54	49	53.31	48.03	50.39	55.12
Max. Opening Width	mm	520	758	880	610	710	910
	Inch	20.47	30	34.65	24.02	27.95	35.83
Cutter Length	mm	120 x 4EA	120 x 4EA	200	120 x 4EA	120 x 4EA	200
	Inch	4.72 x 4EA	4.72 x 4EA	7.87	4.72 x 4EA	4.72 x 4EA	7.87
Crushing Force & Cutting Force	ton(A)	63	79	53	85	83	89
	ton(B)	87	117	72	116	118	96
	ton(C)	108	170	97	142	165	125
	ton(D)	172	48	145	217	197	179
	ton(E)	-	-	165	-	-	225
Suitable Excavator	ton	18 - 26			26 - 32		

16-1. Multi - processor (M)

Pulverizer	Unit	Multi 230R - I Series				Multi 330R - I Series			
		S230R-I	C230R-I	D230R-I	P230R-I	S330R-I	C330R-I	D330R-I	P330R-I
Operating Weight	kg	1,760	1,880	1,760	1,760	2,900	2,750	2,900	2,900
	lb	3,880	3,704	3,880	3,880	6,383	6,063	6,383	6,383
Overall Length	mm	2,072	1,942	1,956	2,024	2,750	2,660	2,745	2,745
	Inch	81.57	76.46	77.06	79.69	108.3	104.7	108	108
Max. Opening Width	mm	522	886	915	890	603	1,163	1,026	968
	Inch	20.55	34.88	36	35.04	24.0	45.79	40.4	38.11
Cutting Force at Middle	ton	127	108	127	108	205	175	205	175
Operating Pressure	kg/cm ²	300				320			
	psi	4,226				4,550			
Oil Flow Rate	LPM	200-250				250-300			
	GPM	52.8-66.1				66.1-79.2			
Motor Setting Pressure	kg/cm ²	160				160			
	psi	2,275				2,275			
Motor Oil Flow Rate	LPM	36-40				36-40			
	GPM	9.5-10.5				9.5-10.5			
Revolving Speed	RPM	13-15				13-15			
Excavator	ton	18-26				26-32			

16-2. Multi - processor (M)

Pulverizer	Unit	Multi 201R - I Series				Multi 301R - I Series			
		S201R-I	C201R-I	D201R-I	P201R-I	S301R-I	C301R-I	D301R-I	P301R-I
Operating Weight	kg	1,760	1,880	1,760	1,760	2,800	2,630	2,800	2,800
	lb	3,880	3,704	3,880	3,880	6,173	5,798	6,173	6,173
Overall Length	mm	2,072	1,942	1,956	2,024	2,484	2,418	2,430	2,430
	Inch	81.57	76.46	77.06	79.69	95.83	95.20	95.7	95.7
Max. Opening Width	mm	522	886	915	890	603	1,163	1,026	968
	Inch	20.55	34.88	36	35.04	24.0	45.79	40.4	38.11
Cutting Force at Middle	ton	127	108	127	108	197	171	197	171
Suitable Excavator	ton	18-26				26-32			

MACHINE INFORMATION					
PRODUCT FAMILY	MACHINE COMPATIBILITY	GALLONS PER MIN.	OPERATING PRESSURE	OPERATING WEIGHT	HAMMER MODEL
SKID STEER	MC60C / MC70C / MC85C / MC95C	18.5	3,335	6,000 - 7,000	SJ 210
MINI EXCAVATOR	EC20C / ECR28 / ECR38 / 3C35C / ECR48C	11.62 - 26.42	2,700 - 3,700	4,500 - 10,500	SJ 210
SKID STEER	MC110C / MC115C / MC135C	23 - 35 STD/ HF	3335	8,000 - 9,000	SJ 300
MINI EXCAVATOR	EC55 / ECR58	11.62 - 34	3,100 - 3,400	12,500 - 13,000	SJ 300
BACKHOE	BL60B / BL70B	43 - 63	3,800 - 4,400	17,000 - 18,500	SJ 500
MINI EXCAVATOR	ECR88	43 - 63	3,800 - 4,400	18,000 - 19,000	SJ 500
SMALL EXCAVATOR	EC140D / ECR145D / EC160C / EW160D / EW180D	66 - 110	4690	30,000 - 40,000	SJ 700
MEDIUM EXCAVATOR	EC210C / EW210D / EW220D / EW230C / ECR235D / EC240C / EC250D	105 - 128	4,699 - 4850	48,000 - 58,000	SJ 800
MEDIUM EXCAVATOR	EC290C / EC300D / ECR305C / EC330C / EC340D / EC360C / EC380D	34.3 - 44.9	4554	64,000 - 85,000	SJ 1200
LARGE EXCAVATOR	EC460C / EC480D / EC700C	190 - 230	4600	104,000 - 152,000	SJ 1500
HAMMER SPECIFICATIONS					
HAMMER MODEL	WEIGHT CLASS (lbs)	GPM	OPERATING PRESSURE	OPERATING WEIGHT (lbs)	ENERGY CLASS (ft/lbs)
SJ 210	6,000 - 11,000	6.6 - 11.9	1,595 - 1,885	409	330
SJ 300	8,000 - 14,000	7.9 - 11.9	2,031 - 2,321	625	620
SJ 500	14,000 - 24,000	16 - 26.5	1,707 - 2,133	1200	759
SJ 700	30,000 - 40,000	26 - 36	2,176 - 2,610	2750	3,700
SJ 800	42,000 - 60,000	34.3 - 44.9	2,176 - 2,610	4200	5406
SJ 1200	60,000 - 86,000	45 - 62	2,176 - 2,610	5410	10,000
SJ 1500	84,000 - 120,000	52 - 80	2,176 - 2,610	8763	12,000

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ALTA EQUIPMENT
COMPANY

Policy: 3.0 Global Governance Commitment
Type: Internal
Occurrence: Annual
Date: December 2016

Policy Wording

The purpose of the board, on behalf of residents of Charter Township of Union, is to see to it that Union Township (a) achieves appropriate results for appropriate persons at an appropriate cost, and (b) avoids unacceptable actions and situations.

Use this evaluation form for discussion at the Board of Trustees meeting on December 21st 2016.

Review policy 3.0 and evaluate Board compliance with the policy.

1. Indicate if you believe we are or are not in strict compliance with the policy as stated.
2. If you indicated that the Board is not in strict compliance with the policy as stated, please indicate what you notice that gives evidence that we are not in compliance.
3. How do you think the Board could improve the process to be in full compliance?
4. What does the Board need to learn or discuss in order to live by our policies more completely?