



**Emergency Telephone System
Board of DuPage County
March 13, 2023**

City of Des Plaines



Emergency Telephone System Board Of DuPage County Memorandum

TO: Chairman Schwarze and ETS Board
FROM: Linda Zerwin, Executive Director
DATE: March 8, 2023
SUBJECT: Des Plaines Consolidation Impact Report

Discussion:

The City of Des Plaines (Des Plaines) has been seeking a new partnership for police and fire 9-1-1 dispatching. The ETS Board has asked staff for an impact study. This memorandum will include financial and technical impacts to the DuPage 9-1-1 System and State consolidation requirements. Operational issues are generally the purview of the PSAPS.

Background:

Des Plaines is currently a Joint ETSB with the Village of Wheeling. Northwest Central Dispatch will be taking Wheeling but declined to take Des Plaines. Des Plaines has asked for proposals from both ACDC and DU-COMM. As of the ETSB February 8, 2023, meeting, the DU-COMM's Executive Board has voted not to proceed with consolidation discussions with Des Plaines. ACDC is continuing to vet this request.

2022 9-1-1 Calls:

	Wireless	Wireline	VoIP	Non-Emergency
Des Plaines	24,372	6,562	2,767	22,589
DuPage ETSB	290,504	43,923	50,166	1,028,923

Appendix A shows the Des Plaines 2022 Total Activity Year to Date. The ETSB 9-1-1 system has shown a decline in the number of 9-1-1 calls over the past several years from 643,337 in 2014 to 384,593 in 2022. The addition of the Des Plaines calls would not exceed higher years.

9-1-1 System Design

State/Statutory Requirements:

The ETSB Executive Director spoke with the State 9-1-1 Administrator regarding the statutory guidelines for receiving Des Plaines. The State 9-1-1 Administrator has indicated that DuPage ETSB could take Des Plaines.

The following paperwork will be required at the state level:

1. 9-1-1 Plan Modification (ETSB Staff) – this is a state form
2. Zip Code Agreement (ETSB Staff) – this is a state form
3. IGA between DuPage ETSB and Des Plaines to make Des Plaines a member agency. (ETSB Staff and SAO). There are several existing IGAs that can serve as the template document for this IGA.

Estimated Staff Time: 16 hours



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9-1-1 Shared System Components:

ETSB staff has reviewed the following 9-1-1 System components and discussed usage with Des Plaines Fire and Police Chiefs:

- FSA/Fire Station Alerting (Purvis) 60 hours
- Radios (DEDIRS) Contracted employee
- Connectivity (NetMotion) 2 hours
- Computer Aided dispatch (CAD) 200 hours
- Mobile for Public Safety (MPS) 20 hours
- GIS MAP work 140 Hours
- LiveMUM 12 Hours
- Records Management System (RMS) This is not an ETSB expense but does impact the system and it is integrated with the CAD system. No ETSB staff time.

Appendix B provides a 9-1-1 System review chart which analyzes the impact to the system. While certain components will require an increase in licensing and hardware, these increases essentially create a more robust environment for the current 9-1-1 System users. For example: Mobile for Public Safety (MPS) would add a fourth (4th) server (2 pieces of hardware: primary and backup) to the 9-1-1 System. Where today there are 20 user agencies per server, the load could be balanced to 15 user agencies per server which would increase speed and efficiencies.

Estimated Staff time: 442 Hours

Estimated LiveMUM: 16 Hours this would include work to be performed by Contract MIS staff of DU-COMM that oversee this system.

Budget Impact:

Revenue: Des Plaines will be contributing \$1.2M annually in surcharge. This would bring the DuPage ETSB surcharge to roughly \$15.4M (according to the current statutory distribution formula). Des Plaines would be contributing seven (7%) of the surcharge.

The financial impact is divided into initial capital costs and annual operating costs. The financials shown on Appendix C make the following assumptions based on \$1.2M annual surcharge from Des Plaines:

1. DEDIRS portable replacement will be a onetime payment because it will be part of the change order to the Motorola contract.
2. Annual costs for airtime and increases in maintenance (estimated at 5% annual increase) have been deducted from the surcharge.

By allocating the funding in this manner, the following challenges are mitigated:

- a. Allows ETSB to re-coop the capital outlay within 1 year and 6 months of receiving Des Plaines surcharge from State.



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- b. Flattens the impact of the \$3M earmarked for the IGA disbursement in FY23 (if paid) which was not budgeted in the 5-10 year plan in FY22 when the DEDIRS Radio Replacement was approved.
- c. Des Plaines surcharge not allocated to initial capital costs will help to cover the anticipated annual operating costs for airtime and maintenance.

Anticipated Capital Costs for this consolidation:	\$1,772,799.12
Annual Operating Cost Increases for this Consolidation:	\$ 118,729.00 (first year)
Annual unobligated surcharge after Yr2 roughly:	\$ 900,000.00

The County Finance Department has provided an updated Cash Flow Analysis including Des Plaines Revenue and Expenditures for the ETS Board's consideration it is part of Appendix C.

Proximity:

Appendix D provides three views of the 9-1-1 system and Des Plaines proximity to DuPage ETSB's current borders. While no portion of Des Plaines resides in DuPage County, since its inception, DuPage ESTB has had the oversight of the Enhanced 9-1-1 systems for citizens of the County of DuPage and portions of Cook, Kane and Will counties. This is because the borders of current members extend into these other counties as far north as Hoffman Estates and as far south/east as Willow Springs.

Recommendations:

ETSB staff has no recommendations at this time.

ETSB Staff has the following items for the ETS Board to consider:

Timing:

1. DEDIRS Change Order: Appendix B notes that the DEDIRS project requires a change order. Des Plaines radios would be part of this change order. A delay in the decision regarding Des Plaines delays additional equipment requested from current members. This equipment is a change from original members initial orders.
2. Cost and Staff Projections are based on today's current rates and a 16-20 month time line and the current projects already under contract.

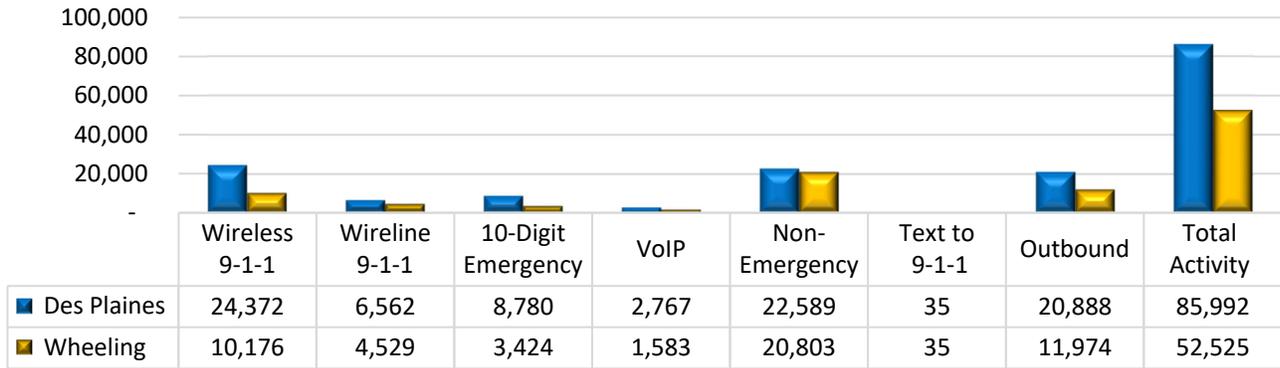
Model:

1. DuPage ETSB, ACDC and DU-COMM are considered the model for consolidation and success in the State of Illinois. State statute utilizes past consolidation policy language of DuPage ETSB.
2. The 911 Reform Bill of 2015 began and continues to mandate: Consolidation and enhanced 9-1-1 services for all residents of Illinois.

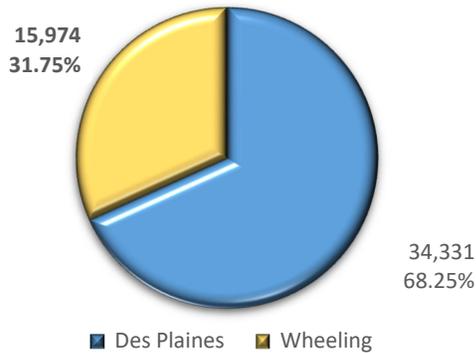
Future Growth:

1. The State will be reviewing consolidation efforts and the surcharge distribution.
2. The ETS Board will have to determine whether or not it wants to expand its 9-1-1 System by adding Des Plaines police and fire.

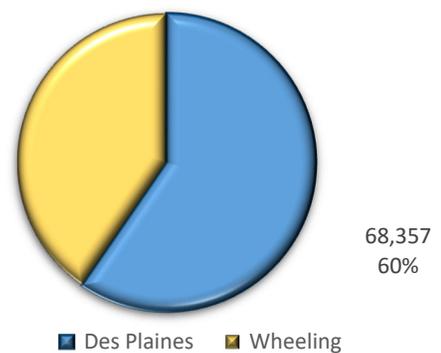
2022 Total Call Activity Year to Date



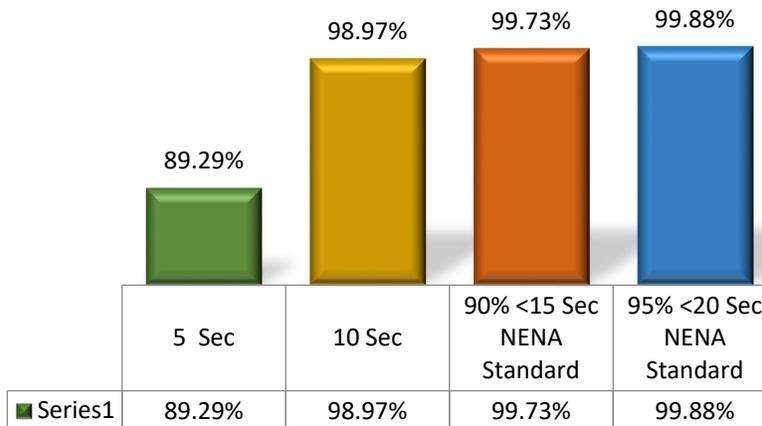
2022 CASE SUMMARY



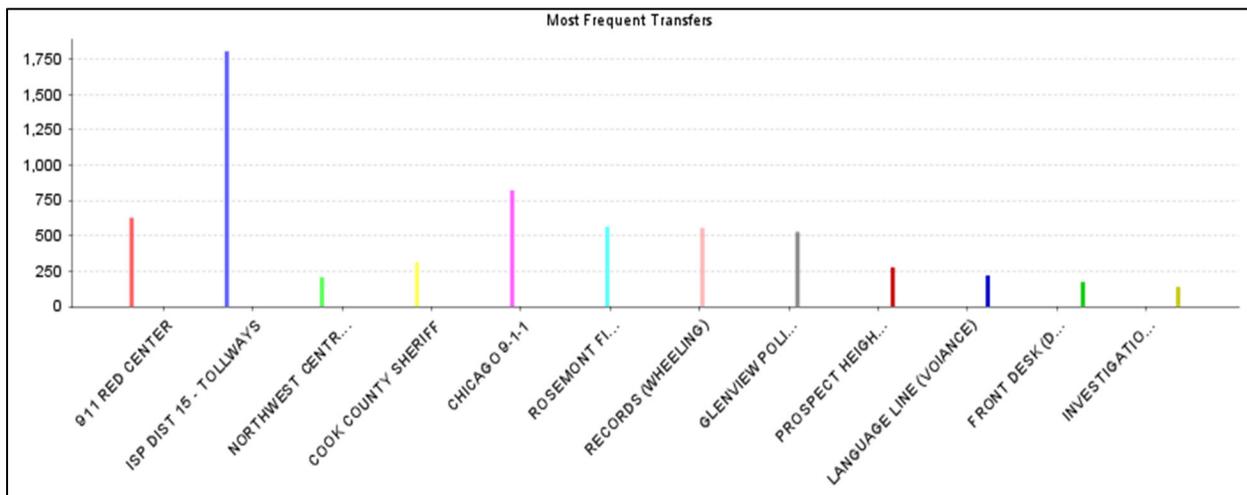
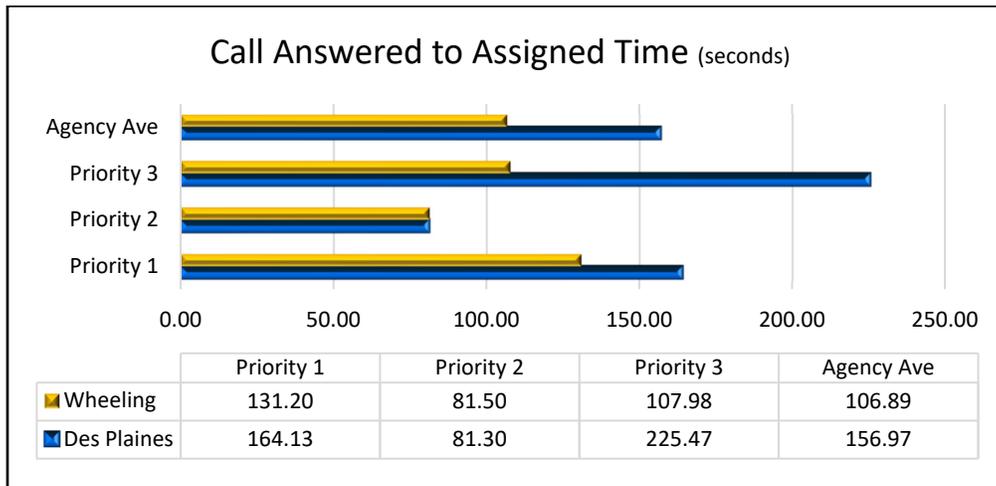
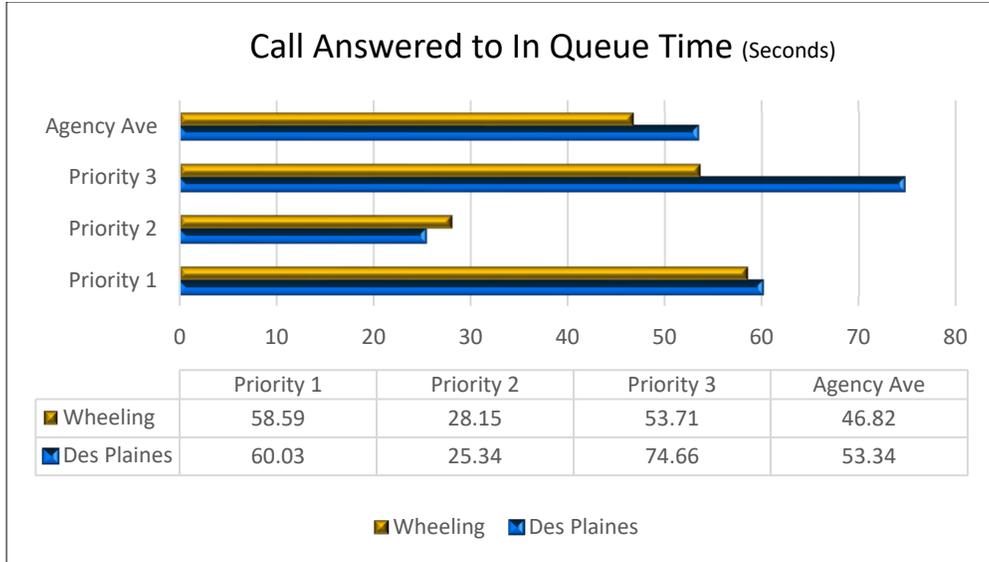
2022 CAD EVENT SUMMARY



2022 ANNUAL SUMMARY 9-1-1 CALL ANSWERING



Appendix A



APPENDIX B

IMPACTS TO 9-1-1 SYSTEM INFRASTRUCTURE

	Benefits	Concerns
State 9-1-1 Administrator		
State Mandates	Eliminates a PSAP and a Joint ETSB which are goals of the statute. This consolidation would also eliminate a Fire/EMS transfer for Des Plaines residents	High. Des Plaines Police and Fire will have to find a partner
Physical Attributes		
Dispatch Positions	Neutral. The consolidation proposes the use of one position currently undesignated in the back up plan.	None. No additional positions would have to be added.
Back Up	The Design of the DU-COMM and ACDC provides adequate back up.	None. The PSAPs were built to back each other up at a time when the Sheriff's Office was still a PSAP. There are five positions in each location capable of taking additional agencies without impacting the current backup plan or DU-COMM's spatial needs at ACDC.
Connectivity		
Connectivity to 9-1-1 System	Neutral	None. Connectivity to agencies is the responsibility of the PSAP. ETSB will work with ACDC to ensure that bandwidth requirements are met to support all 9-1-1 and ACDC services.
Connectivity to ACDC for other services	Neutral	None. This is the responsibility of the PSAPs
Services/Systems		
CAD	<p>System Configuration: Several core components are scheduled for upgrade or replacement, adding Des Plaines now, while vendors are assigned to these projects makes logical and practical sense.</p> <p>Mutual Aid Efficiency: Des Plaines fire currently provides mutual aid to DuPage ETSB agencies. All non-ETSB agencies are programmed generically. Adding Des Plaines to CAD will allow for more specific mutual aid programming and reduced response times to current DuPage fire events</p>	Medium. Staff Time: Ensuring sufficient time exists to properly plan and configure the responses. This is a time consuming exercise that requires multiple iterations to ensure the programming is correct. ETSB has multiple projects in process: DEDRIS radio replacement, upgrading CAD, new logging system and completing a FSA hardware refresh, radio console updates and replacement. The work for ETSB staff other than oversight by deputy directors is specific to CAD and the new logging system for these projects. The work performed for the other projects will be completed by the vendors. If ETSB fills hiring gaps this concern is lessened.

Mobile for Public Safety	Capacity: Currently MPS is supported by three server systems. There are approximately 20 agencies on each server. To support Des Plaines ETSB would acquire a fourth MPS server system. ETSB would then re-distribute all DuPage agencies across the four servers. This would reduce the demand on each server improving performance. Adding a fourth server also provides increased redundancy and reduces the impact of outages.	Medium: Staff Time: ETSB would have the same concerns about time as the CAD and MPS configuration.
9-1-1 phone system	None for ETSB agencies. However, Des Plaines, by consolidating into a PSAP that provides both police and fire services, eliminates transfer fire/EMS calls to Red Center.	None. Des Plaines plans to call forward their existing lines into the Addison SIP connection. There would be no hardware changes. ACDC would need to make a decision on how those call present within the phone system to their TCs.
GIS	Neutral The ETSB map already extends 5 miles beyond the current member's borders at the request of the users for enhanced mapping capabilities. This means that parts of Des Plaines are already in the 9-1-1 system for better functionality.	Medium: Staff Time: ETSB would have the same concerns about time as the CAD and MPS configuration. Vetted data: Des Plaines uses MGP for GIS data. MGP currently supplies GIS data for 5 other ETSB agencies.
Fire Station Alerting (FSA)	Neutral	None. Purvis and Hexagon confirmed that the existing servers and interface hardware is more than capable of adding the three additional fire stations to the existing 67 stations.
Radios	Neutral	High: ETSB has one change order with Motorola for the current contract pricing. Staff is in the process of reconciling changes made to orders by current members for this final change order. Additional portables and mobiles will be required. The Des Plaines decision is part of this change order because if they become members, neither party should pay a higher price for radios in DEDIRS. None: DEDIRS was designed to handle public works traffic which was never added. TDMA requirements have increased the instances of talk time from 16 to 32 available. The additional radios based on the talk time provided and GoS (grade of service) review are minimal impact.

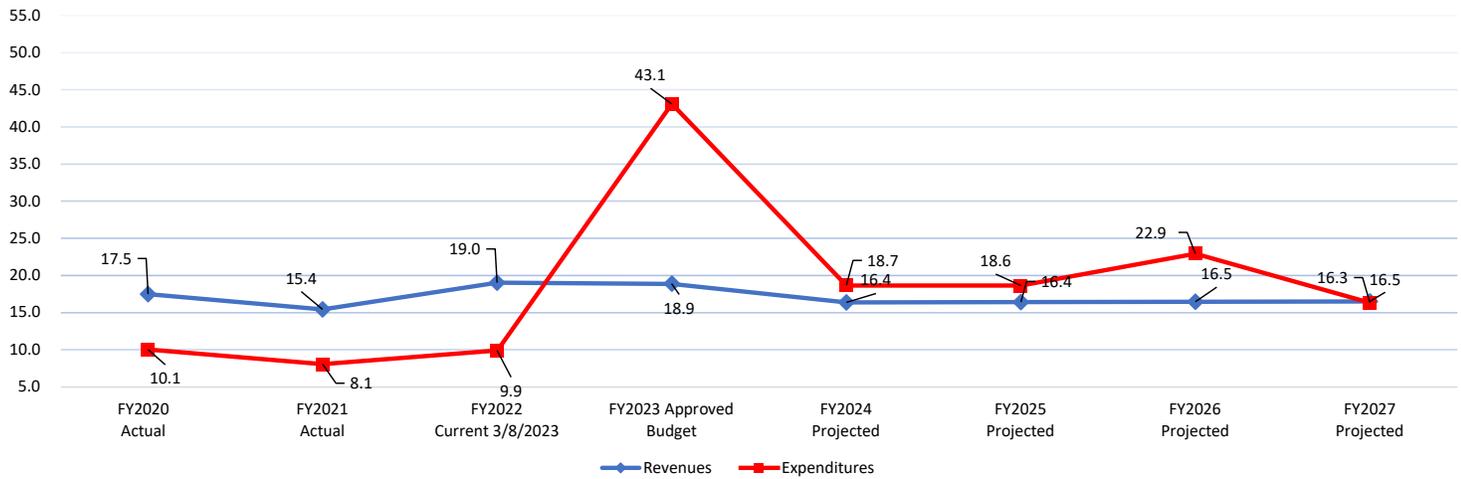
APPENDIX C

Des Plaines	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Total
Annual Surcharge Revenue +/-	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 1,200,000	\$ 7,200,000
Initial Capital	\$ (1,200,000)	\$ (572,799)					\$ (1,772,799)
Annual Operating w/ 5% multiplier		\$ (118,729)	\$ (124,665)	\$ (130,899)	\$ (137,444)	\$ (144,316)	\$ (511,737)
Estimated Equipment Replacement*		\$ (117,741)	\$ (117,741)	\$ (117,741)	\$ (117,741)	\$ (117,741)	\$ (470,966)
*EQ excludes radios	(\$0)	\$390,731	\$957,593	\$951,360	\$944,815	\$937,943	\$4,444,498

Expense	Initial Capital *	Annual Costs
TOTAL	\$ 1,772,799.12	\$ 118,729.00
Fire Station Alerting (FSA)		
Hardware	\$ 101,100.00	
Software/Installation/Implementation	\$ 105,705.00	
Maintenance		\$ 9,585.00
DEDIRS Radios		
Police	\$ 658,092.72	
Fire	\$ 479,999.40	
Airtime		\$ 66,192.00
Conventional Resource Hardware	\$ 46,000.00	
CAD/MPS		
Hardware	\$ 116,902.00	
Software/Installation/Implementation	\$ 200,000.00	
Maintenance		\$ 27,952.00
LiveMum		
Hardware		
Software/Installation/Implementation	\$ 65,000.00	
Maintenance		\$ 15,000.00
GIS		
Hardware		
Software/Installation/Implementation		
Maintenance		

*includes training built into the stated costs for Des Plaines

**FY2023 Prelim Budget
ETSB Five Year Outlook
Revenue - Expenditure Comparison
(\$ in Millions)**



	FY2020 Actual	FY2021 Actual	FY2022 Current 3/8/2023	FY2023 Approved Budget	FY2024 Projected	FY2025 Projected	FY2026 Projected	FY2027 Projected
Fund Balance, December 1	\$ 24.3	\$ 31.7	\$ 39.1	\$ 48.2	\$ 24.0	\$ 21.7	\$ 19.5	\$ 13.0
Revenues								
Intergovernmental	1.5	1.1	1.7	3.6	1.1	1.1	1.2	1.2
Charges for Services	14.8	14.1	16.7	15.3	15.3	15.3	15.3	15.3
Investment Income	0.5	(0.0)	0.2	-	-	-	-	-
Miscellaneous	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Financing Sources	0.5	0.2	0.4	-	-	-	-	-
Total Revenue	\$ 17.5	\$ 15.4	\$ 19.0	\$ 18.9	\$ 16.4	\$ 16.4	\$ 16.5	\$ 16.5
Operational Expenses								
Personnel	\$ 0.8	\$ 0.8	\$ 0.9	\$ 1.3	\$ 1.4	\$ 1.4	\$ 1.5	\$ 1.5
Commodities	0.1	0.2	0.1	0.2	0.4	0.4	0.2	0.2
Contractual Services	7.7	6.7	7.4	12.1	9.0	8.9	8.4	8.6
Capital Outlay	1.5	0.4	1.6	29.5	7.9	7.9	12.8	6.0
Other Financing Uses	-	-	-	-	-	-	-	-
Total Operational Expenses	\$ 10.1	\$ 8.1	\$ 9.9	\$ 43.1	\$ 18.7	\$ 18.6	\$ 22.9	\$ 16.3
Fund Balance, November 30	\$ 31.7	\$ 39.1	\$ 48.2	\$ 24.0	\$ 21.7	\$ 19.5	\$ 13.0	\$ 13.2
% Fund Balance/Expenditures	315%	485%	486%	56%	116%	104%	57%	81%
Headcount	6	6	8	8	8	8	8	8

Note: Figures subject to rounding; outyear budgets are balanced as they become current

Appendix C

Major Assumptions

11.08.22

Updated outlook based on current amounts from the Budget team.

Expenditures

Personnel

The FY2024-FY2027 budgets contain a 2% COLA. This does not imply an ETS Board commitment, and past increases have varied.

This is shown in Regular Salaries, Salary & Wage Adjustments, Employer Share IMRF, and Employer Share Social Security. Health Insurance and Arrestee's Medical is estimated to increase 8% per year from FY2023-FY2027.

Commodities

Amounts for FY24-FY27 are left the same as Chairman's Recommended.

The pension rate slightly decreased from FY2021 resulting in a decrease to the IMRF budget line.

Contractual Services

Amounts for FY24-FY27 are left the same as Chairman's Recommended.

Capital Outlay

Amounts for FY24-FY27 are shown as zero until further modifications.

Capital Contingency

\$29.5 million includes \$6.5 million from Motorola PO 5522-1 for Mobile Radio units and accessories for DEDIRS.

Software, Equipment and Machinery, Software Maintenance Agreements

Includes amounts from Motorola PO 922031(total \$12.4 million) through FY2027.

Revenues

Intergovernmental

PRMS reimbursement amounts(Actual only).

Charges for Services

911 Equalization Surcharge Fee amounts for FY24-FY27 are left the same as Chairman's Recommended.

Miscellaneous

Other Property Rent amounts for FY24-FY27 are left the same as Chariman's Recommended.

3.10.23

Expenditures

Contractual Services

Amounts in Software Maintenance Agreements and Other Contractual Expenses contain Des Plaines amounts and Moto purchase requisition costs.

Capital Outlay

Includes Des Plaines and Moto purchase requisition amounts.

Capital Contingency shows as \$29,446,769 in FY23 in the ETSB budget, Eve sent us a new budget amount for the account for FY23-FY27 that was placed into the forecast.

ETSB 54199 Cost Projections

FY23 \$16.2M

FY24 \$6.7M

FY25 \$6.7M

FY26 \$11.6M

FY27 \$4.8M

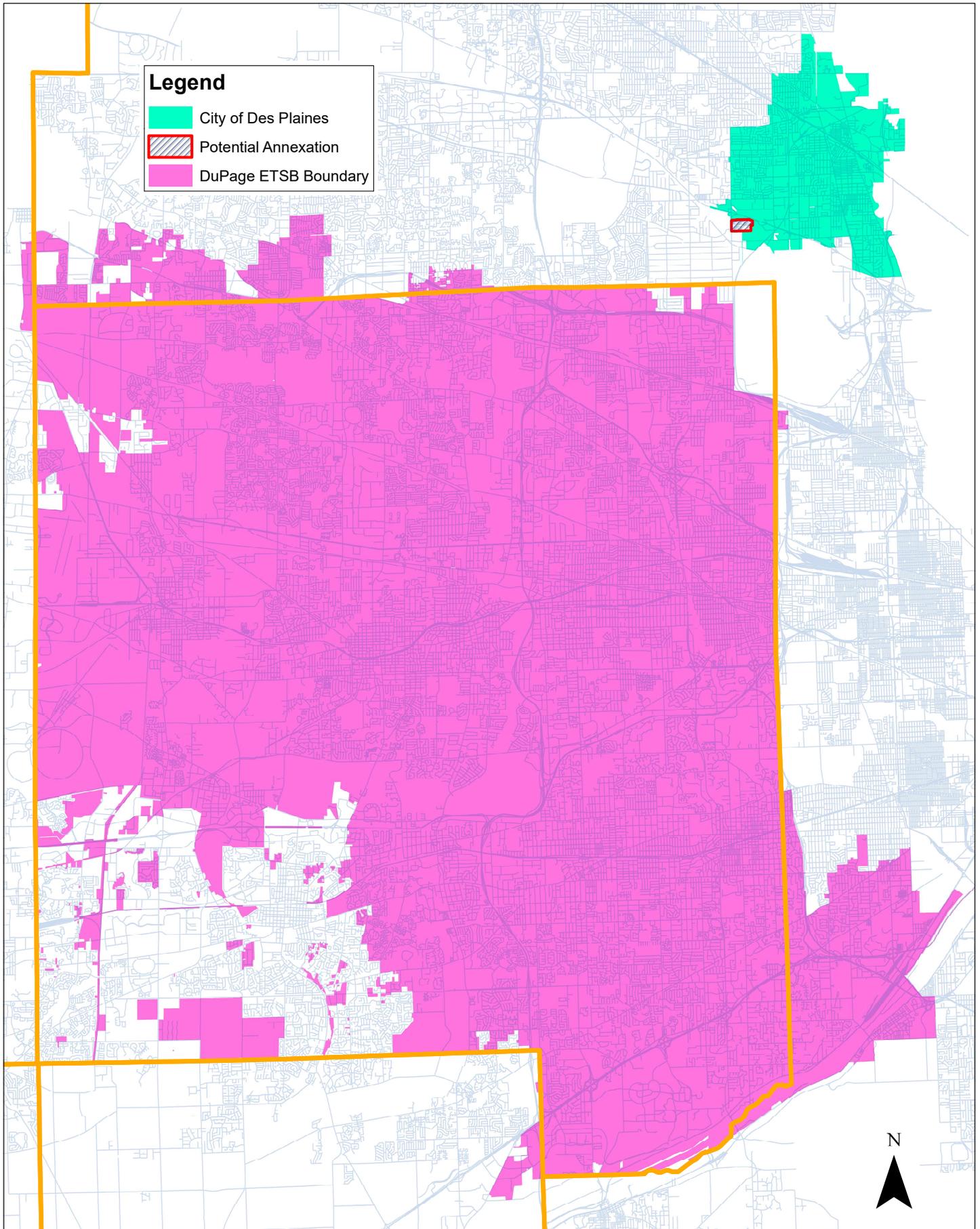
Revenues

Charges for Services

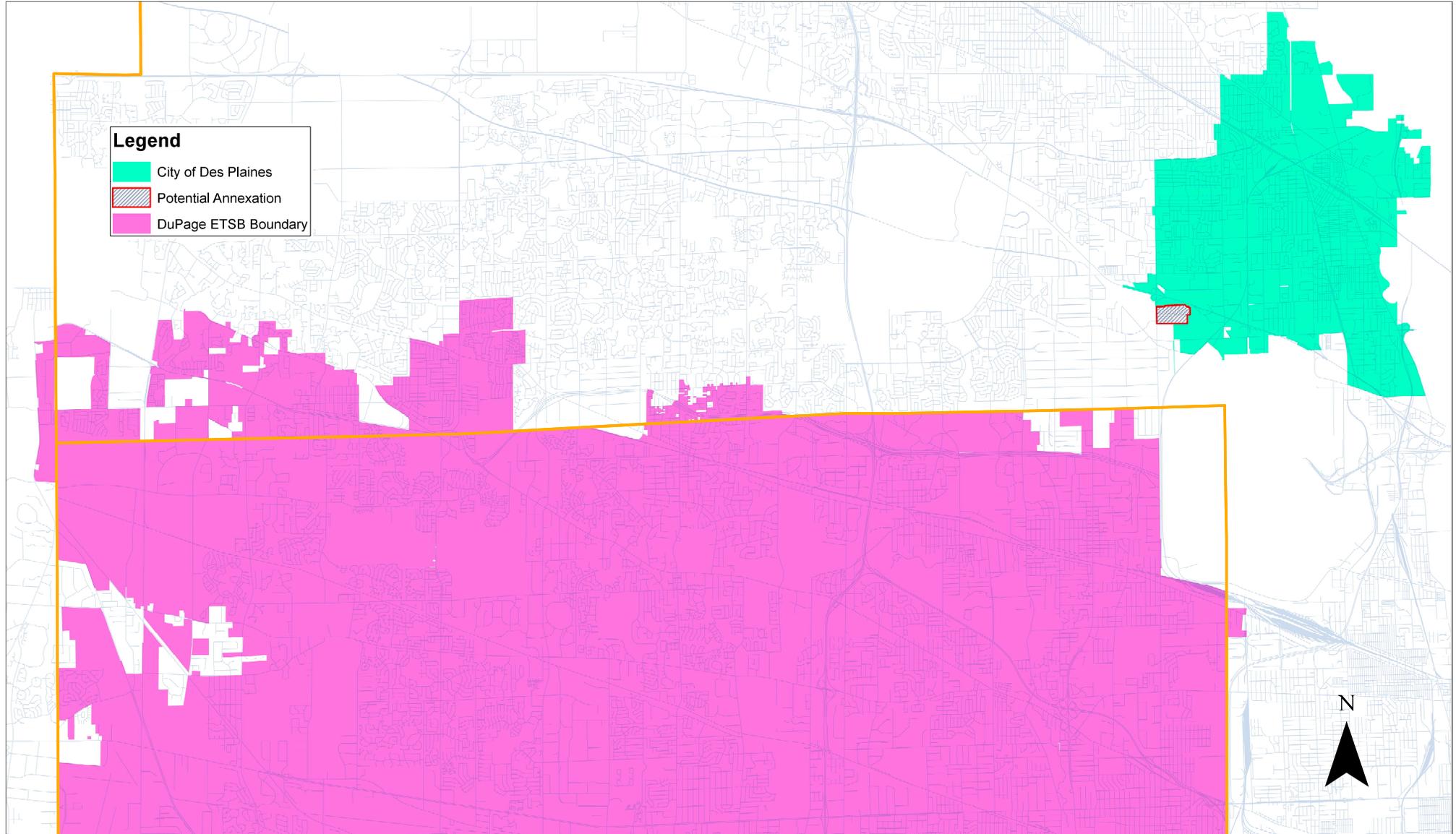
Surcharge revenue includes Des Plaines amount.

Appendix D Map 1

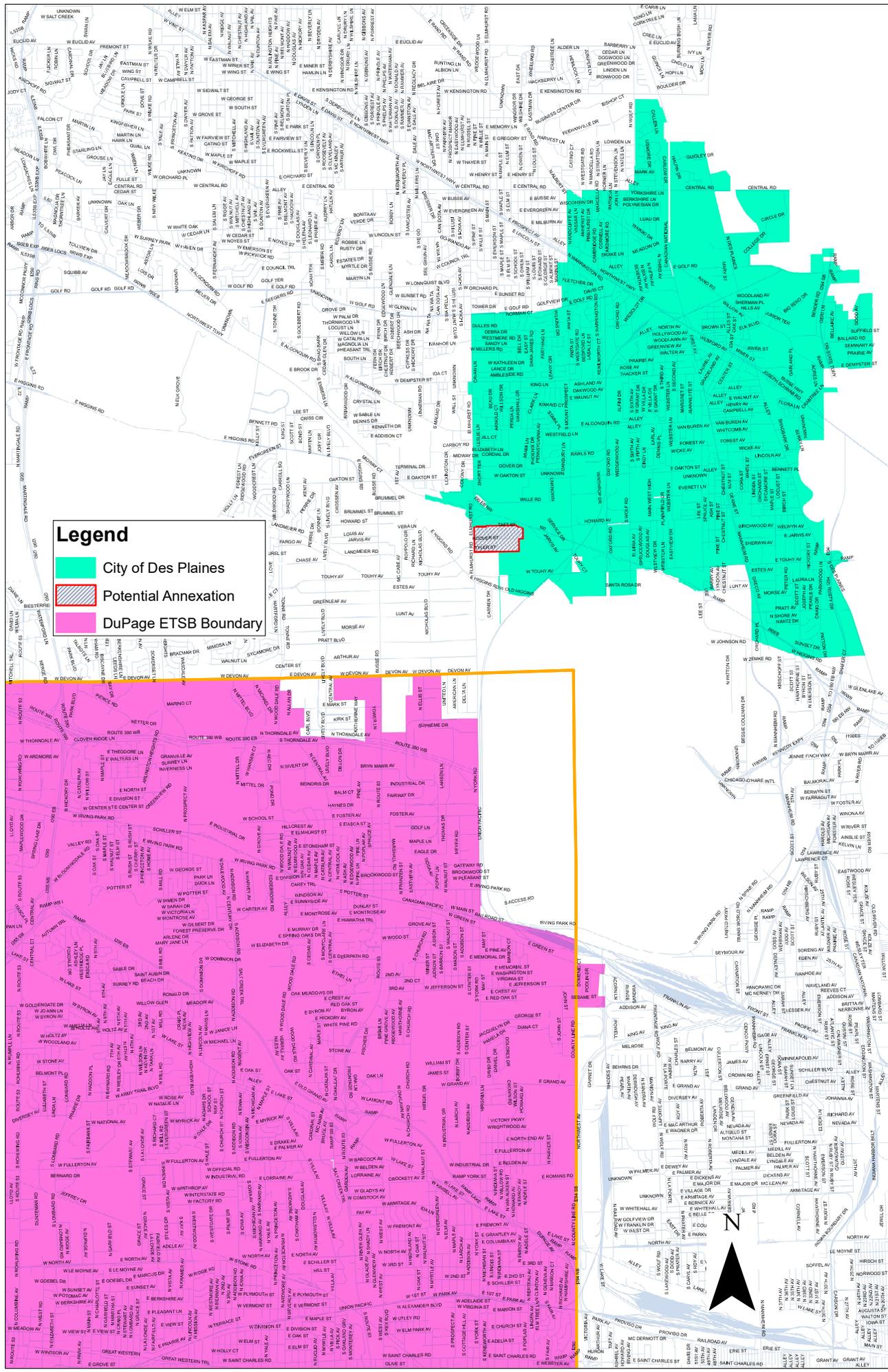
DuPage ETSB Boundary and City of Des Plaines



Northern Portion of DuPage ETSB Boundary and the City of Des Plaines



Appendix D Map 3 Northeast Portion of DuPage ETSB Boundary and the City of Des Plaines





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Appendix E: 9-1-1 System Design Background Information

PSAP Dispatch Positions:

Both PSAPs have sufficient capacity to accommodate Des Plaines. ACDC has proposed a configuration of Des Plaines Police on their own talk group and Des Plaines Fire on an existing ACDC fire talk group. No additional positions would have to be added to the current totals at each location. The PSAPs were originally designed and built to back each other up at a time when the Sheriff's Office was still a PSAP. This means that there are five positions in each center capable of taking additional agencies without impacting the current backup plan of the two existing PSAPs.

Fire Station Alerting (FSA):

Des Plaines has three fire houses. Purvis provided a quote to add the three stations with the same core equipment that was included in the original FSA contract deployed in 2019. Purvis advised that there would be no additional equipment required at the PSAPs and that there was sufficient capacity within the existing PSAP hardware infrastructure to accommodate the additional stations.

The FSA costs in Appendix C were created using a worst-case scenario and Purvis anticipates being able to reduce the overall costs once site walks have been conducted.

Training:

Training for fire department personnel is covered by a train the trainer slide deck. ETSB would host a session. This is the same training process that was completed for the initial rollout.

Immediate impact:

Project management time and effort by ETSB staff to manage the planning, testing, implementation, and cutover to Purvis systems: 40-60 hours.

DEDIR System:

DuPage ETSB is currently at the beginning of a new radio replacement contract and made its first of four payments to Motorola December 14, 2022. Agency costs will be billed beginning in December of 2023. DuPage ETSB has an agreement with Motorola to allow for one change order to finalize capital equipment at the contract price (roughly 47% discount depending on item). Once that change order is complete, pricing will be at the current Motorola state contract pricing.

Des Plaines Police have 113 APX7000 radios from the Cook County Sheriff. APX7000 radios are end of life and will be end of support in December 2023. Once the end of support date is reached, the ability to convert these radios to AES encryption (if they are not already encrypted) will be difficult and cost roughly \$1800 a radio.

Des Plaines police have 13 APX6000 radios which can be updated with AES encryption to work on the DEDIR System. The package cost for these flash kits is roughly \$1800. There is no end of life/end of support projected for APX6000 radios as of this memorandum. This means that they could be used by CSOs in lieu of purchasing APX4000 radios (ETSB current price for radio, 2 batteries and a charger =\$1,822.21).



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Des Plaines Fire has 14 APX6000XE radios and 9 APX8000 radios. These radios appear to be scheduled for upgrades. Upgrading may be a more cost-effective solution.

Based on FCC guidelines, ETSB currently does not provide radios for personnel that are non-sworn and/or are not directly related to the 9-1-1 dispatch. The agency owned APX6000XEs could be substituted on the cost sheet for the roughly 14-16 positions that may fall into this category.

Radios purchased under this contract are covered by the Motorola Radio System Manager for the next four years and any work performed on radios with normal wear and tear performance issues are covered under the contract at no cost to the participating agencies. This would include any radios purchased by the agency under the contract.

As a member agency, Des Plaines would be able to utilize the four-year payment plan afforded other members for any agency costs they incur under the ETSB contract.

As a member agency, Des Plaines is part of the DEDIR System, airtime for radios that meet the FCC criteria would be paid by ETSB. ETSB has negotiated a contract with Motorola that locks in the current airtime rate until 2029.

To accommodate additional conventional resources on the dispatch consoles, Motorola would need to provide 1 additional 8 port CCGW, 1 800 MHZ Consolette, 1 800/VHF Consolette, 1 8 port antenna combiner and 1 Starcom antenna and line. Motorola provided an approximate cost that has been added to the costs in Appendix C.

Immediate Impact: The Motorola Service Manager, assuming the decision is made within 60 days, would have over a year to program the radios in between service tickets for existing DEDIR System users.

Connectivity (NetMotion):

Des Plaines advised they would continue to use their existing NetMotion server. Currently 16 agencies connect to ETSB using this method. ETSB would not need to procure any additional licensing. The impact here would be to the connection between ACDC and Des Plaines, which is a PSAP responsibility.

ETSB staff would work with Des Plaines IT and ACDC to verify the connection. 2 hours of staff time.

Dispatch components:

Computer Aided dispatch (CAD):

Des Plaines police has on average 25 units logged into CAD at one time (including detectives and administrative staff). During special events that number could double. Des Plaines police do not currently program neighboring jurisdictions into the CAD system. Mutual aid units are generic and would not require being logged into CAD. Therefore, the impact to the system is wholly based on the total number of units active for the police department.



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Des Plaines fire has 14 units logged into CAD at one time. During the same special events that number could increase by 4. The Des Plaines Fire Chief estimates that 20-30 units that are not currently in Hexagon CAD would need to be added to the system for programming run orders. (Some Mutual aid units are already built into the CAD system for existing ETSB agencies i.e., Elk Grove Village.)

Training: The CAD application is used primarily by PSAP personnel. Additional technical training would not be necessary. Operational CAD issues are the responsibility of the PSAP.

Immediate impact: ETSB staff will need to build out an agency and the additional mutual aid units. ETSB staff anticipates it will take approximately 200 hours to plan, create, test, and deploy the new agency and units.

Long term impact: Hexagon advised that the existing hardware that was refreshed in January of 2023 is sufficiently sized to accommodate Des Plaines. There is no additional CAD hardware needed.

Mobile for Public Safety (MPS):

MPS currently leverages three virtual servers to accommodate the existing agencies logged into CAD. Based on their use case (39 units per shift Police and Fire), a fourth MPS virtual server was recommended by Hexagon. The cost for this addition is included in Appendix C.

Training: Hexagon will provide a two-day train the trainer session for all applications. ETSB staff would anticipate hosting Des Plaines IT to install and troubleshoot each of the applications.

Immediate impact: ETSB staff will need to build out the additional units in MPS. We anticipate this will take approximately 20 hours including IT training.

Long term impact: In today's environment, there are 20 user agencies per server, the load could be balanced to 15 user agencies per server which would increase speed and efficiencies. More specifically, there are approximately 550 units logged into MPS at any given time. These units are balanced between the three servers and average about 185 units per server. With a fourth server ETSB would be able to re-distribute the current MPS server architecture reducing the total number of units per server to approximately 147. This is a 20% reduction of processing demand per server and would increase the speed and efficiency of MPS for all DuPage ETSB agencies.

Netviewer:

Netviewer is a website that shows current and closed calls for service. DuPage ETSB currently provides one Netviewer license per physical location (Fire Stations and Police Stations). Des Plaines has one police station and three fire stations. The licensing cost is included in Appendix C.

Training: Netviewer training is included in MPS training.



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Immediate impact: There is no immediate impact. The website is a view of CAD data and does not require any additional configuration work.

Long Term impact: Our current Netviewer hardware/software package can accommodate up to 200 licenses. Currently, there are only approximately 100 active accounts. Adding four would not require any additional hardware.

Mobile Responder Mobile App:

Mobile responder is a mobile application that shows current and closed calls for service. The application can also be used to provide status and communicate with other MPS users. ETSB does not provide any mobile responder licenses, they are exclusively an agency expense. Des Plaines has advised they would be interested in pricing for 28 licenses.

Training: Mobile responder training would be a separate agency cost and would be included if Des Plaines elected to purchase the licenses.

Immediate impact: There is no immediate impact. The application has been built out based on the current MPS system and would not require any additional configuration work.

Long Term impact: Similar to Netviewer, the current hardware bundle provides capacity for 200 concurrent users. ETSB has approximately 60 Mobile Responder users; adding 28 users would not require any additional hardware.

GIS:

Des Plaines uses Municipal GIS Partners (MGP). MGP currently provides GIS data for 5 other DuPage ETSB agencies and is familiar with the format. NG9-1-1 data has been provided and meets the error threshold of 2%.

Training: MGP currently provides data in the appropriate format. However, ETSB staff anticipates meeting with MGP to ensure the data meets our expectations for CAD.

Immediate impact: ETSB estimates that it will take between 80 and 140 hours of staff time to convert beats, response zones, CAD, and CPE GIS data. It is difficult to determine a more precise estimate without viewing their current map data.

Long term impact: There would be no long-term impact beyond the added staff time to update additional locations in the system.

Interfaces/Miscellaneous:

LiveMUM:

LiveMUM is a software that provides real time analysis of response recommendations for fire agencies. When an event causes a geographic region to become depleted of available units to respond to a call for service, the software will recommend units from a different region within the ETSB footprint be moved to provide coverage to the area that has been depleted.



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Training: ACDC has already been trained on LiveMUM and can provide end user training to the Des Plaines Fire Department.

Immediate impact: All configuration work would be completed by Deccan, the vendor that provides the software. ETSB would need to provide GIS data to Deccan, however this data will have already been refined during the GIS work previously completed. Estimated staff time including DU-COMM Contracted MIS staff that oversee this system approximately 16 hour

Long term impact: Deccan does not require any additional hardware to include Des Plaines into the software.

Records Management System (RMS):

Des Plaines police currently uses Central Square RMS. They have 111 users. Des Plaines would have two primary options: Continue to use Central Square RMS and request an interface to Hexagon CAD system or join the PRMS group. RMS is not currently supported by ETSB so the training and impact noted below pertains to ETSB staff only.

Training: There would be minimal training for ETSB and Des Plaines IT staff to manage the data flow should Des Plaines elect to continue to use Central Square and a new interface is developed.

Immediate impact: ETSB estimates it would take 16-24 hours to work with Hexagon to build out an interface for Central Square RMS.

Long term impact: There would be no long-term impact.

Fire Records Management System:

Des Plaines fire is currently an ImageTrend customer. Their instance of ImageTrend is managed by Northwest Central Dispatch. If they elect to stay on that system, ETSB would need to create a new interface to share data. ETSB staff has created an ImageTrend interface for the initial deployment of the CAD system. Further discussion would be needed to determine what, if any, impact there would be to the current interface by adding in Des Plaines.

FlowMSP:

Des Plaines fire is currently a FlowMSP customer. ETSB worked with FlowMSP to create a data export for CAD. We do not anticipate any impact to the system adding Des Plaines to this interface.