

Columbiana County **9-1-1**

COLUMBIANA COUNTY
9-1-1 FINAL PLAN
COLUMBIANA COUNTY, OHIO

PREPARED BY THE
COLUMBIANA COUNTY TECHNICAL ADVISORY COMMITTEE
FOR THE
COLUMBIANA COUNTY 9-1-1 PLANNING COMMITTEE

Columbiana County 9-1-1

TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
PURPOSE STATEMENT AND INTRODUCTION	3
PLANNING COMMITTEE MEMBERS.....	4
TECHNICAL ADVISORY COMMITTEE MEMBERS.....	5
COLUMBIANA COUNTY POPULATION FIGURES	6
PSAP LOCATIONS	7
PSAP DESCRIPTION	8 - 9
DATABASE DEVELOPMENT.....	10
ENHANCED 9-1-1 OPERATION	11
WIRELESS 9-1-1 OPERATION.....	12
ONGOING 9-1-1 OPERATION.....	13
PUBLIC SERVICE AGENCIES.....	14
9-1-1 GEOGRAPHIC TERRITORY ROUTING.....	15
PSAP – EQUIPMENT	16 - 17
PSAP – CONNECTIONS.....	18
9-1-1 FUNDING.....	19
9-1-1 INCOME	20
9-1-1 IMPLEMENTATION COSTS.....	21 - 22
ONGOING COSTS	23
RADIO COMMUNICATIONS.....	24
STAFFING AND PERSONNEL.....	25
WIRELESS 9-1-1 (W9-1-1) IMPLEMENTATION	26 - 27
AMENDING THIS PLAN	28
GLOSSARY OF TERMS.....	29 - 32
APPENDICES	33

Columbiana County 9-1-1

PURPOSE STATEMENT

GET HELP TO THE SCENE FASTER!

INTRODUCTION

IN THE FALL OF 2004, THE COLUMBIANA BOARD OF COUNTY COMMISSIONERS ADOPTED A RESOLUTION TO CONVENE AN ENHANCED 9-1-1 “E9-1-1” PLANNING COMMITTEE IN ACCORDANCE WITH THE OHIO HOUSE BILL 491 AND THE OHIO REVISED CODE § 4931.40 TO § 4931.54. THE FIRST MEETING OF THE PLANNING COMMITTEE WAS OCTOBER 2004. COMMISSIONER GARY WILLIAMS WAS ELECTED CHAIRPERSON, MAYOR SWOGER WAS ELECTED VICE CHAIRPERSON, AND MAYOR DeJANE WAS ELECTED SECRETARY. THE PLANNING COMMITTEE APPOINTED MEMBERS OF AN E9-1-1 TECHNICAL ADVISORY COMMITTEE (TAC) TO CONSTRUCT A 9-1-1 FINAL PLAN IN ACCORDANCE WITH THE SAME LEGISLATION.

SUBSEQUENT TO THEIR APPOINTMENTS, THE E9-1-1 TECHNICAL ADVISORY COMMITTEE MET ON A REGULAR BASIS TO BRING TOGETHER THE BEST OVERALL COUNTYWIDE 9-1-1 SYSTEM AS DESCRIBED IN THIS 9-1-1 FINAL PLAN. THE 9-1-1 FINAL PLAN INCLUDES INFORMATION FOR THE IMPLEMENTATION OF BOTH ENHANCED WIRELINE 9-1-1 “E9-1-1” AND PHASE I AND PHASE II WIRELESS 9-1-1 “W9-1-1” FOR COLUMBIANA COUNTY.

UPON COMPLETION, THE 9-1-1 FINAL PLAN WAS REVIEWED AND APPROVED BY THE TECHNICAL ADVISORY COMMITTEE. THEN IT WAS REVIEWED AND APPROVED BY THE PLANNING COMMITTEE. THE PLAN WAS THEN PRESENTED TO THE GOVERNING BODIES OF ALL POLITICAL SUBDIVISIONS THROUGHOUT THE COUNTY FOR THEIR REVIEW AND APPROVAL. UPON RECEIPT OF RESOLUTIONS SUPPORTING THE 9-1-1 FINAL PLAN FROM THE POLITICAL SUBDIVISIONS REPRESENTING OVER SIXTY PERCENT OF THE POPULATION OF THE COUNTY, THE 9-1-1 FINAL PLAN WAS ADOPTED. ONCE ADOPTED, A COPY OF THE 9-1-1 FINAL PLAN WAS SUBMITTED TO THE PUBLIC UTILITIES COMMISSION OF OHIO (PUCO).

Columbiana County 9-1-1

PLANNING COMMITTEE MEMBERS

CHAIRMAN GARY WILLIAMS
COMMISSIONER
COLUMBIANA COUNTY

JAMES SWOGER
MAYOR
CITY OF EAST LIVERPOOL

LARRY DeJANE
MAYOR
CITY OF SALEM

Columbiana County 9-1-1

TECHNICAL ADVISORY COMMITTEE MEMBERS

* COMMISSIONER GARY WILLIAMS
BOARD OF COUNTY COMMISSIONERS
COLUMBIANA COUNTY COMMISSIONERS

* DAVE SMITH
SHERIFF
COLUMBIANA COUNTY SHERIFF

*DARREN DODSON
COLUMBIANA COUNTY E.M.A.
COLUMBIANA COUNTY

* LT. WILLIAM G. THOMPSON
OHIO STATE HIGHWAY PATROL
COMMANDER POST 15 OSHP

* FRED GRAPPY
TOWNSHIP TRUSTEE'S ASSOCIATION
FAIRFIELD TOWNSHIP TRUSTEE

* CHIEF JOHN KRAWCHYK
POLICE CHIEF
COLUMBIANA POLICE DEPARTMENT

LT. DON BEESON
POLICE DEPARTMENT REPRESENTATIVE
CITY OF SALEM POLICE DEPARTMENT

CAPTAIN NORM CURTIS
POLICE DEPARTMENT REPRESENTATIVE
EAST LIVERPOOL POLICE DEPARTMENT

RUDY SACCHET
NEGLEY FIRE/EMS
NEGLEY VOLUNTEER FIRE DEPARTMENT

KELLY BETTERIDGE
EMS REPRESENTATIVE
LIFETEAM E.M.S. – PRESIDENT

BUTCH DONNELLY

STEVE KRISTAN

* CHIEF WALT GREENAMYER
FIRE DEPARTMENT CHIEF
CHIEF CITY OF SALEM FIRE DEPARTMENT

* CHIEF BRETT TODD
FIRE DEPARTMENT CHIEF
CHIEF EAST PALESTINE FIRE DEPARTMENT

* CHIEF WAYNE CHAMBERLAIN
COUNTY FIRE CHIEF'S ASSOCIATION
WEST POINT FIRE DEPARTMENT

* NANCY SERIFINO
TELEPHONE COMPANY REPRESENTATIVE
SPRINT/UNITED TELEPHONE COMPANY

* RICK HAGER
TELEPHONE COMPANY REPRESENTATIVE
SBC COMMUNICATIONS

* SKIP DALTON
TELEPHONE COMPANY REPRESENTATIVE
VERIZON COMMUNICATIONS

KEITH CHAMBERLAIN
CITY REPRESENTATIVE
COLUMBIANA CITY MANAGER

SUZANNE SCARRY
MAPPING
COLUMBIANA COUNTY ENGINEERING

DICK WILSON
COUNTY FIREFIGHTER'S ASSOCIATION
HANOVERTON FIRE DEPT.

ANDY KOPYSTYNSKY
TELEPHONE COMPANY REPRESENTATIVE
SBC COMMUNICATIONS

GARY PHILLIPS

JOHN TOLSON

* *REQUIRED APPOINTMENTS PER OH REVISED CODE § 4931.42*

Columbiana County 9-1-1

COLUMBIANA COUNTY POPULATION FIGURES

NAME	1980 CENSUS	2000 CENSUS
BUTLER TOWNSHIP	3,228	3,444
CENTER TOWNSHIP	3,390	3,685
ELKRUN TOWNSHIP	2,288	4,781
FAIRFIELD TOWNSHIP	3,894	4,215
FRANKLIN TOWNSHIP	685	658
HANOVER TOWNSHIP	2,798	3,362
KNOX TOWNSHIP	4,486	4,828
LIVERPOOL TOWNSHIP	4,921	4,374
MADISON TOWNSHIP	3,387	3,406
MIDDLETON TOWNSHIP	3,128	3,475
PERRY TOWNSHIP	5,017	4,852
SALEM TOWNSHIP	2,828	3,338
ST CLAIR TOWNSHIP	8,080	7,961
UNITY TOWNSHIP	3,600	3,969
WASHINGTON TOWNSHIP	989	983
WAYNE TOWNSHIP	741	785
WEST TOWNSHIP	3,015	3,346
YELLOW CREEK TOWNSHIP	2,458	2,185
TOTAL	58,933	63,647

NAME	1980 CENSUS	2000 CENSUS
COLUMBIANA *	4,986	5,273
EAST LIVERPOOL	16,687	13,089
EAST PALESTINE	5,306	4,917
HANOVERTON	490	387
LEETONIA	2,121	2,043
LISBON	3,159	2,788
MINERVA **	7	5
NEW WATERFORD	1,314	1,391
ROGERS	298	266
SALEM	12,869	12,197
SALINEVILLE	1,629	1,397
SUMMITVILLE	146	108
WASHINGTONVILLE *	532	434
WELLSVILLE	5,095	4,133
TOTAL CITIES OR VILLAGES	54,639	48,428

TOTAL COUNTY POPULATION **113,572** **112,075**

(SIXTY PERCENT OF THE TOTAL POPULATION = 67,245)

* ADDITIONAL RESIDENTS IN MAHONING COUNTY

** ADDITIONAL RESIDENTS IN STARK COUNTY

Columbiana County 9-1-1

PUBLIC SAFETY ANSWERING POINTS (PSAP) LOCATIONS

COLUMBIANA COLUMBIANA POLICE DEPARTMENT
28 SOUTH VINE STREET
COLUMBIANA, OH 44408
PHONE: 330 482-9292 (NON-EMERGENCY)
FAX: 330 482-6203
CHIEF JOHN KRAWCHYK

EAST LIVERPOOL EAST LIVERPOOL POLICE DEPARTMENT
126 WEST SIXTH STREET
EAST LIVERPOOL, OH 43920
PHONE: 330 385-3229 (NON-EMERGENCY)
FAX: 330 385-3770
CHIEF MICHAEL McVAY

EAST PALESTINE EAST PALESTINE POLICE DEPARTMENT
75 EAST MAIN STREET
EAST PALESTINE, OH 44413
PHONE: 330 426-4344 (NON-EMERGENCY)
FAX: 330 426-4343
CHIEF HOFFMEISTER

SALEM SALEM POLICE DEPARTMENT
231 SOUTH BROADWAY
SALEM, OH 44460
PHONE: 330 377-7811 (NON-EMERGENCY)
FAX: 330 337-3433
CHIEF MICHAEL WEITZ

SHERIFF COLUMBIANA COUNTY SHERIFF
8473 COUNTY HOME ROAD
LISBON, OH 44432
PHONE: 330 424-5081(NON-EMERGENCY)
FAX: 330 424-3795
SHERIFF DAVE SMITH

Columbiana County 9-1-1

PUBLIC SAFETY ANSWERING POINTS (PSAP) DESCRIPTION

THIS PLAN MUST PROVIDE ALL COUNTY RESIDENTS AND BUSINESSES 9-1-1 EMERGENCY SERVICES SEVEN (7) DAYS A WEEK, TWENTY-FOUR (24) HOURS PER DAY, AND THREE HUNDRED SIXTY-FIVE DAYS PER YEAR.

THE FOUNDATION OF THE 9-1-1 PLAN WAS AGREEING TO THE NUMBER AND LOCATIONS OF THE PRIMARY PSAP'S IN THE COUNTY. THE COUNTY'S FINANCIAL RESOURCES FOR THE IMPLEMENTATION AND OPERATION OF 9-1-1 SERVICES IS INADEQUATE FOR BOTH. THEREFORE, THIS PLAN CALLS FOR THE FINANCIAL RESPONSIBILITY OF IMPLEMENTATION (I.E. EQUIPMENT, TRAINING, BUILDING PREPARATION) TO BE BORN BY THE COUNTY 9-1-1 FUND AND THE FINANCIAL BURDEN OF OPERATIONS (I.E. STAFFING, UTILITIES, FACILITIES) BE BORN BY EACH PRIMARY PSAP AGENCY.

THE TECHNICAL ADVISORY COMMITTEE CONSIDERED THE DIFFERING REQUIREMENTS OF MUNICIPAL AND RURAL EMERGENCY SERVICES THROUGHOUT THE COUNTY, THE COSTS OF 9-1-1 EQUIPMENT, THE COST OF STAFFING 9-1-1 CALL CENTERS (PSAP'S), THE COST OF IMPLEMENTATION, AND THE ONGOING COSTS OF MAINTENANCE. BASED UPON THESE CONSIDERATIONS THERE WILL BE FIVE (5) PRIMARY PSAP LOCATIONS.

THE PSAP LOCATIONS ARE:

THE COLUMBIANA COUNTY SHERIFF
THE COLUMBIANA POLICE DEPARTMENT
THE EAST LIVERPOOL POLICE DEPARTMENT
THE EAST PALESTINE POLICE DEPARTMENT
THE SALEM POLICE DEPARTMENT

THESE FIVE (5) PSAP'S WILL BE THE PRIMARY ANSWER LOCATION FOR ALL 9-1-1 POLICE, FIRE AND EMS (EMERGENCY MEDICAL SERVICE) EMERGENCY CALLS. DISPATCHING OF EMERGENCY SERVICE PROVIDERS WILL EITHER BE DONE BY ONE OF THESE FIVE (5) PRIMARY PSAP'S OR TRANSFERRED TO A DISPATCH LOCATION DESIGNATED BY THE POLITICAL SUBDIVISION RESPONSIBLE FOR THAT DEFINED JURISDICTION.

THE FIVE (5) PSAP'S WILL BE PROVIDED WITH THE EQUIPMENT NECESSARY TO PROVIDE COUNTYWIDE E9-1-1 AND W9-1-1 SERVICES. EACH PSAP WILL BE STAFFED WITH AROUND-THE-CLOCK 9-1-1 COMMUNICATIONS TRAINED PERSONNEL. A GRADUAL PHASING-IN APPROACH WILL BE USED TO IMPLEMENT COMPUTER AIDED MAPPING, RECORDS MANAGEMENT SYSTEMS (RMS) SOFTWARE, AND COMPUTER AIDED DISPATCH (CAD) SYSTEMS SOFTWARE.

Columbiana County 9-1-1

PSAP DESCRIPTION - CONTINUED

THIS PLAN DOES NOT CHANGE ANY MUTUAL AID OR OPERATING AGREEMENTS NOW IN EFFECT BETWEEN CITIES, VILLAGES, AND/OR TOWNSHIPS. THIS PLAN DOES NOT CHANGE ANY AGENCY'S STANDARD OPERATING PROCEDURE WITHOUT THE EXPRESSED APPROVAL OF THAT AGENCY.

EACH PRIMARY PSAP WILL BE EQUIPPED WITH AUTOMATIC HEARING IMPAIRED COMMUNICATIONS CAPABILITY USING TDD DETECTING COMPUTER EQUIPMENT.

EMERGENCY 9-1-1 CALLS ORIGINATING FROM CELLULAR TELEPHONES WILL BE ROUTED TO A PRIMARY PSAP OR THE OHIO STATE HIGHWAY PATROL ACCORDING TO THE CELLULAR SERVICE PROVIDER TOWER LOCATION.

EACH PSAP LOCATION WILL BE PROGRAMMED TO OVERFLOW TRAFFIC AND ALTERNATE ROUTE CALLS TO ANOTHER PRIMARY PSAP LOCATION AS FOLLOWS; SHERIFF TO SALEM TO COLUMBIANA TO EAST PALESTINE TO EAST LIVERPOOL TO SHERIFF.

UPON RECEIPT OF UNRECOGNIZED CALLS, WHERE THE TELEPHONE NUMBER IS MISSING (ANI) OR NO RECORD IS FOUND IN THE 9-1-1 DATABASE (ALI), THE 9-1-1 CALLS WILL BE AUTOMATICALLY ROUTED TO A PSAP BASED ON THE TELEPHONE EXCHANGE FROM WHICH THE CALL ORIGINATED. THIS TABLE SHOWS THE DEFAULT ROUTING.

CENTRAL OFFICE NAME	330 EXCHANGE	DEFAULT ROUTE
E ROCHESTER HANOVERTON LISBON N GEORGETOWN SALINEVILLE WELLSVILLE WINONA	894 223 420, 424, 692 525 679 532 222	COLUMBIANA COUNTY SHERIFF
COLUMBIANA LEETONIA	482 427	COLUMBIANA PD
E LIVERPOOL	382, 383, 385, 386	E LIVERPOOL PD
EAST PALESTINE NEW WATERFORD ROGERS	426,886 457 227	EAST PALESTINE PD
SALEM	332,337	SALEM PD
MECHANICSTOWN	738	CARROLL COUNTY SHERIFF
SEBRING DAMASCUS	938 537	MAHONING COUNTY SHERIFF
ALLIANCE (SBC) MINERVA PARIS	680,821,823,829 868 862	STARK COUNTY SHERIFF

Columbiana County 9-1-1

DATABASE DEVELOPMENT

COLUMBIANA COUNTY CREATED A 9-1-1 MASTER STREET ADDRESS GUIDE (MSAG) BY STARTING WITH THE THREE INCUMBENT LOCAL EXCHANGE CARRIER (ILEC) TELEPHONE COMPANIES' (SBC, SPRINT, VERIZON) STREET ADDRESS GUIDE (SAG) INFORMATION AND MODIFYING AND VERIFYING IT. THEN THE PSAP ROUTING INFORMATION WAS INCORPORATED. THEN THE POLICE, FIRE AND EMS JURISDICTIONS WERE APPLIED. EMERGENCY SERVICE ZONES (ESZ) WERE ASSIGNED FOR EACH COMBINATION OF EMERGENCY SERVICE PROVIDERS AND APPLIED TO EACH UNIQUE DIVISION OF THE MAP. THEN EMERGENCY SERVICE NUMBERS (ESN) WERE ASSIGNED TO EACH ESZ AND ENTERED INTO THE MSAG TO COMPLETE THE 9-1-1 CALL ROUTING DEVELOPMENT. THIS COMPLETED THE INITIAL COLUMBIANA COUNTY MSAG.

EACH SUBDIVISION IN COLUMBIANA COUNTY RECEIVED A COPY OF THE COLUMBIANA COUNTY MASTER STREET ADDRESS GUIDE (MSAG) FOR THEIR JURISDICTION AND VERIFIED THE STREET NAMES AND HOUSE NUMBER RANGES AND SUBMITTED CHANGES, ADDITIONS AND/OR DELETIONS. A NON-RESPONSE INDICATED CONCURRENCE WITH THE ACCURACY OF THE MSAG INFORMATION.

THE MSAG DATABASE WAS PROVIDED TO THE THREE (3) ILEC TELEPHONE COMPANIES AND USED BY THEM AS A TOOL TO IDENTIFY ERRORS IN THEIR CUSTOMER SUBSCRIBER RECORDS. ALL CUSTOMER SUBSCRIBER RECORDS WERE THEN MODIFIED TO CONFORM TO THE STANDARDS ESTABLISHED IN THE MSAG.

THE MSAG WAS THEN USED TO ESTABLISH AREAS OF JURISDICTIONAL RESPONSIBILITY AND DETERMINE PROPER 9-1-1 CALL ROUTING FOR EACH EMERGENCY SERVICE-PROVIDING AGENCY. ONCE ALL ROUTING HAS BEEN ESTABLISHED IN THE MSAG, THE MSAG ROUTING INFORMATION IS THEN USED TO LOAD THE HOST TELEPHONE COMPANY (SBC) SELECTIVE ROUTING TANDEM IN KENT, OH

EACH TELEPHONE COMPANY SENT THEIR CUSTOMER RECORDS TO THE 9-1-1 HOST TELEPHONE COMPANY (SBC) AND THEY WERE COMPILED AND LOADED INTO THE SBC AUTOMATIC LOCATION INFORMATION (ALI) DATABASE SYSTEMS LOCATED IN INDIANAPOLIS, IN AND AKRON, OH. THIS COMPLETED THE CREATION OF THE ALI DATABASE SYSTEM USED FOR COLUMBIANA COUNTY 9-1-1 SERVICE.

THE MSAG IS THE SOLE PROPERTY OF COLUMBIANA COUNTY AND IS WILLING SUPPLIED TO PROVIDERS OF 9-1-1 EMERGENCY SERVICES AT THEIR REQUEST AT NO COST TO THE PROVIDER. COPIES, EITHER HARD OR ELECTRONIC, ARE NOT TO BE DISTRIBUTED WITHOUT THE EXPRESSED WRITTEN CONSENT OF COLUMBIANA COUNTY.

Columbiana County 9-1-1

ENHANCED 9-1-1 (E9-1-1) OPERATION

THE COLUMBIANA COUNTY 9-1-1 FINAL PLAN PROVIDES FOR COMMUNICATIONS CAPABILITY FROM THE FIVE (5) PRIMARY PSAP'S TO OTHER SERVING EMERGENCY SERVICE AGENCIES THROUGHOUT THE COUNTY. THIS CAPABILITY WILL UTILIZE PRESENT RADIO, TELEPHONE, AND COMPUTER EQUIPMENT ALONG WITH ADDITIONAL EQUIPMENT TO PROVIDE FOR COUNTYWIDE COMMUNICATIONS. AGENCIES SERVED BY THE FIVE (5) PSAP'S WILL HAVE PRINTERS OR FAX MACHINES INSTALLED IN A SECURE LOCATION. THE FIVE PSAP'S WILL THEN BE ABLE TO SEND LOCATION INFORMATION TO THESE PRINTERS/FAX MACHINES TO ASSIST IN THE RAPID DEPLOYMENT OF EMERGENCY SERVICES TO THE SCENE.

RESIDENT AND BUSINESS AUTOMATIC ALARM DIALERS ARE NOT TO BE PROGRAMMED TO DIAL 9-1-1, BUT SHOULD BE PROGRAMMED TO DIAL THE APPROPRIATE SEVEN-DIGIT NUMBER OF THEIR EMERGENCY SERVICE AGENCY.

THE EAST LIVERPOOL PSAP, SALEM PSAP, COLUMBIANA PSAP, EAST PALESTINE PSAP, AND THE COLUMBIANA COUNTY SHERIFF DEPARTMENT PSAP SHALL BE UNDER THE DIRECTION OF THEIR RESPECTIVE POLICE CHIEFS OR SHERIFF RESPECTIVELY. PRIOR TO THE ACTIVATION OF 9-1-1 FOR COUNTY, THE COLUMBIANA COUNTY TECHNICAL ADVISORY COMMITTEE SHALL ADDRESS ANY FURTHER SUGGESTIONS, USER INPUT, OR COMPLAINTS ON THE PROPOSED OPERATION AND CONFIGURATION OF THE 9-1-1 SYSTEM.

PUBLIC HEARINGS WERE CONDUCTED ACCORDING TO THE OHIO REVISED CODE § 4931.40 THROUGH § 4931.54 AND QUESTIONS, CONCERNS, SUGGESTIONS, AND MODIFICATIONS WERE ADDRESSED.

Columbiana County 9-1-1

WIRELESS 9-1-1 OPERATION

COLUMBIANA COUNTY WILL IMPLEMENT WIRELESS 9-1-1 (W9-1-1) UTILIZING INFORMATION SUPPLIED IN FCC DOCKET 94-102 AND THE PUCO RECOMMENDATIONS FOR WIRELESS SERVICE. WIRELESS SERVICE WILL BE IMPLEMENTED IN THREE (3) PHASES:

- PHASE 0 – THE BASIC ROUTING OF WIRELESS 9-1-1 CALLS FROM A WIRELESS SERVICE PROVIDER TO AN EMERGENCY SERVICE PROVIDERS TEN (10) DIGIT TELEPHONE NUMBER.
- PHASE I – WIRELESS SERVICE PROVIDERS WILL BE NOTIFIED AT LEAST SIX (6) MONTHS PRIOR TO THE DESIRED ACTIVATION DATE THAT COLUMBIANA COUNTY IS REQUESTING PHASE I WIRELESS 9-1-1 EMERGENCY SERVICE. ALL WIRELESS SERVICE PROVIDERS IN THE COUNTY WILL BE IDENTIFIED, THEIR TOWERS LOCATED AND ADDRESSED, THE TYPE OF SERVICE PROVIDED AT EACH TOWER (SECTORIZED OR OMNI DIRECTIONAL) WILL BE PLOTTED, AND ROUTING TO THE PROPER PSAP BASED ON TOWER LOCATION AND/OR SECTOR WILL BE ESTABLISHED. WITH PHASE I THE 9-1-1 PSAP WILL RECEIVE THE WIRELESS CALLERS CALLBACK NUMBER (CALLER ID), THE TOWER ADDRESS AND/OR SECTOR LOCATION, AND A LIST OF THE MOST LIKELY EMERGENCY SERVICE PROVIDERS FOR THE AREA.
- PHASE II – ALL WIRELESS SERVICE PROVIDERS WILL BE NOTIFIED AT LEAST SIX (6) MONTHS PRIOR TO THE DESIRED ACTIVATION DATE THAT COLUMBIANA COUNTY IS REQUESTING PHASE II WIRELESS 9-1-1 EMERGENCY SERVICE. LONGITUDE, LATITUDE, AND ALTITUDE LOCATION TECHNOLOGY UTILIZING GLOBAL POSITIONING SERVICE (GPS) AND TIME DIFFERENCE OF ARRIVAL (TDOA) TECHNOLOGY WILL BE UTILIZED TO DETERMINE THE LOCATION OF A WIRELESS 9-1-1 CALLER. WITH PHASE II, THE 9-1-1 PSAP WILL RECEIVE THE WIRELESS CALLERS CALLBACK NUMBER (CALLER ID), THE TOWER ADDRESS AND/OR SECTOR LOCATION, A LIST OF THE MOST LIKELY EMERGENCY SERVICE PROVIDERS FOR THE AREA, AND THE CALLER'S LONGITUDE (X) AND LATITUDE (Y) COORDINATES (ACCURATE TO WITHIN THREE (3) METERS SIXTY PERCENT OF THE TIME).

THE COLUMBIANA COUNTY 9-1-1 SYSTEM WILL INTEGRATE A COMPUTER BASED GIS MAPPING SYSTEM (ESRY SHAPE FILES) THAT WILL PINPOINT THE LOCATION OF A 9-1-1 CALLERS BASED ON STREET ADDRESS (ALI) OR LAT/LONG COORDINATES. THE MAP WILL GIVE THE 9-1-1 COMMUNICATIONS OFFICER A VISUAL INDICATION OF THE EXACT LOCATION OF AN EMERGENCY CALLER.

Columbiana County 9-1-1

ONGOING 9-1-1 OPERATION

THIS 9-1-1 FINAL PLAN CALLS FOR THE CONVENING OF A PERMANENT BOARD TO OVERSEE THE ONGOING OPERATIONS OF 9-1-1. THE COMMITTEE SHALL BE NAMED "THE COLUMBIANA COUNTY EMERGENCY SERVICES COMMITTEE" AND SHALL CONVENE IMMEDIATELY FOLLOWING THE PUBLIC ACTIVATION DATE OF E9-1-1.

MEMBERS OF THE EMERGENCY SERVICES COMMITTEE SHALL INCLUDE:

1. A COUNTY COMMISSIONER SELECTED BY THE BOARD OF COUNTY COMMISSIONERS, WHO SHALL SERVE AS CHAIRPERSON OF THE COMMITTEE
2. THE COUNTY DIRECTOR/COORDINATOR OF 9-1-1 WHO SHALL SERVE AS ASSISTANT CHAIRPERSON
3. THE CHIEF EXECUTIVE OFFICER OF THE MOST POPULOUS MUNICIPAL CORPORATION IN THE COUNTY (OR THEIR APPOINTEE)
4. FROM THE MORE POPULOUS OF THE FOLLOWING, EITHER THE CHIEF EXECUTIVE OFFICER OF THE SECOND MOST POPULOUS MUNICIPAL CORPORATION IN THE COUNTY (OR THEIR APPOINTEE) OR A MEMBER OF THE BOARD OF TOWNSHIP TRUSTEES OF THE MOST POPULOUS TOWNSHIP IN THE COUNTY AS SELECTED BY THAT BOARD OF TRUSTEES
5. THE COUNTY SHERIFF (OR THEIR APPOINTEE)
6. ONE POLICE CHIEF SELECTED BY THE COUNTY POLICE CHIEFS ASSOCIATION
7. ONE REPRESENTATIVE OF THE STATE HIGHWAY PATROL SELECTED BY THE COMMANDING OFFICER OF THE LOCAL STATE HIGHWAY PATROL
8. ONE FIRE CHIEF SELECTED BY THE COUNTY FIRE CHIEFS ASSOCIATION
9. ONE FIREFIGHTER SELECTED BY THE COUNTY FIREFIGHTERS ASSOCIATION
10. ONE REPRESENTATIVE FROM EACH INCUMBENT LOCAL EXCHANGE CARRIER (ILEC) TELEPHONE COMPANY IN EACH CASE SELECTED BY THE TELEPHONE COMPANY REPRESENTED
11. THE DIRECTOR/COORDINATOR OF EMERGENCY MANAGEMENT APPOINTED UNDER [SECTION 5502.26](#), [5502.27](#), OR [5502.271](#) [5502.27.1] OF THE REVISED CODE (OR THEIR APPOINTEE)
12. A MEMBER OF A BOARD OF TOWNSHIP TRUSTEES SELECTED BY THE COUNTY TRUSTEES ASSOCIATION
13. A REPRESENTATIVE FROM A PUBLIC EMERGENCY MEDICAL SERVICE (EMS) APPOINTED BY THE COUNTY COMMISSIONERS
14. A REPRESENTATIVE FROM EACH OTHERWISE UNREPRESENTED PRIMARY PSAP CENTER SELECTED BY THE COMMANDING OFFICER OF THAT AGENCY

THE COLUMBIANA COUNTY EMERGENCY SERVICES COMMITTEE SHALL MEET AS NEEDED, BUT AT LEAST TWICE, EACH YEAR TO INVESTIGATE, EVALUATE, AND IMPLEMENT CHANGES AND IMPROVEMENTS TO THE COLUMBIANA COUNTY 9-1-1 SYSTEM. MEMBERS PRESENT AT ANY SCHEDULED MEETING OF THIS COMMITTEE WILL CONSTITUTE A QUORUM.

Columbiana County 9-1-1

COLUMBIANA COUNTY PUBLIC SERVICE AGENCIES

LAW ENFORCEMENT

BEAVER CREEK PARK RANGER
COLUMBIANA COUNTY SHERIFF
COLUMBIANA POLICE
EAST LIVERPOOL POLICE
EAST PALESTINE POLICE
FAIRFIELD TOWNSHIP POLICE
GUILFORD LAKE PARK RANGER
HANOVERTON POLICE
LEETONIA POLICE
LISBON POLICE
LIVERPOOL TOWNSHIP POLICE
NEW WATERFORD POLICE
OHIO STATE HIGHWAY PATROL
ODNR GAME WARDEN
PERRY TOWNSHIP POLICE
ROGERS POLICE
SALEM POLICE
SALEM TOWNSHIP POLICE
ST CLAIR TOWNSHIP POLICE
SUMMITVILLE POLICE
WASHINGTONVILLE POLICE
WELLSVILLE POLICE

FIRE/EMS

CALCUTTA
CLEMENTE AMBULANCE
COLUMBIANA FIRE
COLUMBIANA EMS
DAMASCUS FIRE/EMS
EAST LIVERPOOL FIRE
EAST PALESTINE FIRE/EMS
GLENMOOR FIRE
GREEN TOWNSHIP FIRE
GREEN TOWNSHIP EMS
HANOVER TOWNSHIP FIRE
HIGHLANDTOWN FIRE
HOMEWORTH FIRE
KLG AMBULANCE
LEETONIA FIRE
LIFETEAM AMBULANCE
LISBON FIRE
LIVERPOOL TOWNSHIP FIRE
MAPLE COTTON AMBULANCE
MINERVA FIRE
NEGLEY FIRE/EMS
NEW WATERFORD FIRE/EMS
NORTH GEORGETOWN FIRE
PERRY TOWNSHIP FIRE
ROGERS FIRE (NEGLEY WEST)
RURAL METRO AMBULANCE
SALEM FIRE
SALINEVILLE FIRE
SUMMITVILLE FIRE
TRI COUNTY AMBULANCE
WELLSVILLE FIRE
WEST POINT FIRE
WINONA FIRE

Columbiana County 9-1-1

9-1-1 GEOGRAPHIC TERRITORY ROUTING

ENTITY	PRIMARY PSAP
BEAVER CREEK STATE PARK	SHERIFF
BUTLER TWP POLICE/FIRE/EMS	SHERIFF
CALCUTTA POLICE/FIRE/EMS	EAST LIVERPOOL
CENTER TOWNSHIP POLICE/FIRE/EMS	SHERIFF
COLUMBIANA COUNTY SHERIFF	SHERIFF
COLUMBIANA POLICE/FIRE/EMS	COLUMBIANA
DAMASCUS POLICE/FIRE/EMS	SHERIFF
EAST LIVERPOOL POLICE/FIRE/EMS	EAST LIVERPOOL
EAST PALESTINE POLICE/FIRE/EMS	EAST PALESTINE
ELK RUN TWP POLICE/FIRE/EMS	SHERIFF
FAIRFIELD TWP POLICE/FIRE/EMS	COLUMBIANA
FRANKLIN TWP POLICE/FIRE/EMS	SHERIFF
GLENMOOR POLICE/FIRE/EMS	EAST LIVERPOOL
GUILFORD LAKE POLICE/FIRE/EMS	SHERIFF
HANOVERTON POLICE/FIRE/EMS	SHERIFF
HANOVER TWP POLICE/FIRE/EMS	SHERIFF
HIGHLANDTOWN POLICE/FIRE/EMS	SHERIFF
HOMEWORTH POLICE/FIRE/EMS	SHERIFF
KNOX TWP POLICE/FIRE/EMS	SHERIFF
LEETONIA POLICE/FIRE/EMS	SHERIFF
LISBON POLICE/FIRE/EMS	SHERIFF
LIVERPOOL TWP POLICE/FIRE/EMS	SHERIFF
MADISON TWP POLICE/FIRE/EMS	SHERIFF
MIDDLETON TWP POLICE/FIRE/EMS	EAST PALESTINE
MINERVA POLICE/FIRE/EMS	STARK COUNTY SHERIFF
NEGLEY POLICE/FIRE/EMS	EAST PALESTINE
NEW WATERFORD POLICE/FIRE/EMS	EAST PALESTINE
NORTH GEORGETOWN FIRE	SHERIFF
OHIO STAT HIGHWAY PATROL	SHERIFF
PERRY TWP POLICE/FIRE/EMS	SALEM
ROGERS POLICE/FIRE/EMS	EAST PALESTINE
SALEM POLICE/FIRE/EMS	SALEM
SALEM TWP POLICE/FIRE/EMS	SHERIFF
ST CLAIR TWP POLICE/FIRE/EMS	EAST LIVERPOOL
SALINEVILLE POLICE/FIRE/EMS	SHERIFF
SUMMITVILLE POLICE/FIRE/EMS	SHERIFF
UNITY TWP POLICE/FIRE/EMS	EAST PALESTINE
WASHINGTON TWP POLICE/FIRE/EMS	SHERIFF
WASHINGTONVILLE POLICE/FIRE/EMS	MAHONING COUNTY SHERIFF
WELLSVILLE POLICE/FIRE/EMS	SHERIFF
WEST POINT POLICE/FIRE/EMS	SHERIFF
WEST TWP POLICE/FIRE/EMS	SHERIFF
WINONA POLICE/FIRE/FIRE	SHERIFF
YELLOW CREEK TWP POLICE/FIRE/EMS	SHERIFF

Columbiana County 9-1-1

9-1-1 EQUIPMENT

THE TECHNICAL ADVISORY COMMITTEE CAREFULLY AND METHODICALLY DETERMINED THE DESIRED OPERATIONS OF A COUNTYWIDE 9-1-1 SYSTEM. BASED ON THE NEEDS OF THE COUNTY AS IT PERTAINS TO 9-1-1, IT IS RECOMMENDED THE FOLLOWING EQUIPMENT BE INCLUDED IN THIS 9-1-1 PLAN ON AN AS-NEEDED BASIS ALLOWING FOR INTEGRATION OF AVAILABLE RESOURCES AND COMPATIBILITY. PER PSAP EQUIPMENT:

- TWO (2) 9-1-1 ANI/ALI TELEPHONE AND LOCATION COMPUTER SYSTEMS
- TWO (2) E9-1-1 AND W9-1-1 MAPPING LOCATION DISPLAY COMPUTER SYSTEMS
- TWO (2) 9-1-1 RECORDS MANAGEMENT SYSTEM COMPUTER SYSTEMS
- TWO (2) 9-1-1 ERGONOMIC WORKSTATION FURNITURE CONSOLES
- TWO (2) 9-1-1 COMPUTER AIDED DISPATCH COMPUTER SYSTEMS
- ONE (1) 9-1-1 TELEPHONE AND RADIO VOICE RECORDING COMPUTER SYSTEM
- MISC. - PRINTERS, UPS'S, FLAT-SCREEN MONITORS, KEYBOARDS/MICE, TDD'S

9-1-1 EQUIPMENT DETAIL DESCRIPTIONS

9-1-1 ANI/ALI TELEPHONE AND LOCATION COMPUTER SYSTEM WILL PRESENT 9-1-1 EMERGENCY CALLS TO A COMMUNICATIONS OFFICER WITH THE CALLER'S VOICE CONNECTION, THE CALLER'S TELEPHONE NUMBER (ANI), THE CALLER'S LOCATION INFORMATION (ALI), AND A LIST OF THE EMERGENCY RESPONSE AGENCIES FOR THAT LOCATION ADDRESS.

THE E9-1-1/W9-1-1 MAPPING LOCATION DISPLAY COMPUTER SYSTEM WILL AUTOMATICALLY PROCESS A 9-1-1 CALLER'S ANI/ALI INFORMATION AND PINPOINT THE CALLER'S LOCATION BY DISPLAYING IT ON A COMPUTER GENERATED MAPPING SYSTEM.

THE 9-1-1 RECORDS MANAGEMENT SYSTEM COMPUTER SYSTEM WILL ALLOW THE EMERGENCY SERVICE AGENCY TO RECORD EMERGENCY ACTIVITY BY CREATING ARCHIVABLE DATABASE RECORDS.

THE ERGONOMIC WORKSTATION FURNITURE CONSOLES WILL PERMIT THE INSTALLATION OF THE PC COMPUTERS, UPS POWER SUPPLIES, FLAT-SCREEN MONITORS, KEYBOARDS/MICE, RADIO CONSOLES, TELEPHONES AND ALL THE CABLING IN AN ADJUSTABLE COMPACT FURNITURE CONSOLE DESIGNED FOR THIS PURPOSE.

COMPUTER AIDED DISPATCH SYSTEM (CAD) WILL ALLOW COMMUNICATIONS OFFICERS TO INPUT PERTINENT INFORMATION FOR EACH SPECIFIED LOCATION

9-1-1 EQUIPMENT - CONTINUED

Columbiana County 9-1-1

TO ASSIST IN THE PROPER AND RAPID RESPONSE OF EMERGENCY SERVICES AGENCIES.

VOICE RECORDERS WILL BE USED TO RECORD TELEPHONE AND RADIO COMMUNICATIONS AND WILL HAVE THE ABILITY TO ARCHIVE THESE RECORDING FOR AT LEAST ONE YEAR.

UNINTERRUPTED POWER SUPPLY (UPS) TO PROVIDE ELECTRICAL REQUIREMENTS FOR ALL 9-1-1 RELATED EQUIPMENT PRIOR TO BACKUP GENERATOR OPERATION.

TELEPHONE LINES AS NEEDED FOR 9-1-1 OPERATION INCLUDING ANSWERING, TRANSFERRING, AND CONFERENCING EMERGENCY CALLS.

TERMINAL DEVICE FOR DEAF (TDD) WILL PROVIDE COMPUTERIZED COMMUNICATIONS AND RECORDINGS OF EMERGENCY CALLS FROM THE DEAF.

Columbiana County 9-1-1

PSAP – CONNECTIONS

THE TECHNICAL ADVISORY COMMITTEE CAREFULLY AND METHODICALLY DETERMINED THE DESIRED OPERATIONS OF A COUNTYWIDE 9-1-1 SYSTEM. BASED ON THE NEEDS OF THE COUNTY AS IT PERTAINS TO 9-1-1, IT IS RECOMMENDED THE FOLLOWING CONNECTIONS BE INCLUDED IN THIS 9-1-1 PLAN ON AN AS-NEEDED BASIS ALLOWING FOR INTEGRATION OF AVAILABLE RESOURCES AND COMPATIBILITY. PER PSAP REQUIREMENTS:

- MAINTAIN EXISTING LISTED EMERGENCY TELEPHONE NUMBERS, THE TELEPHONE SYSTEM, AND A BACKUP AC POWER GENERATOR
- TWO (2) DEDICATED NETWORK DATA CIRCUITS BETWEEN THE ON SITE ANI/ALI CONTROLLER AND THE TWO (2) REDUNDANT 9-1-1 ALI DATABASE SYSTEMS AT SBC OFFICE IN INDIANAPOLIS, IN AND AKRON, OH
- NETWORK TRUNKING CONNECTIONS BETWEEN THE ON SITE ANI/ALI CONTROLLERS AND THE SBC SELECTIVE ROUTING TANDEM IN KENT, OH
- ACCESS TO A COUNTYWIDE EMERGENCY NOTIFICATION SYSTEM USED FOR EVACUATION NOTIFICATION AND SOMETIMES REFERRED TO AS REVERSE 9-1-1

CONNECTION – DESCRIPTION

EACH PSAP MUST MAINTAIN THE EXISTING EMERGENCY TELEPHONE LINES THAT EXIST TO ANSWER CALLS TO THE AGENCIES SERVED BY THE PSAP. EACH PSAP MUST ALSO MAINTAIN THE ADMINISTRATIVE TELEPHONE SYSTEM WITHIN THE BUILDING ALONG WITH AN EMERGENCY AC BACKUP POWER GENERATOR ADEQUATE TO MAINTAIN THIS EQUIPMENT AND TO PROVIDE EMERGENCY LIGHTING IN THE EVENT OF A COMMERCIAL POWER FAILURE.

THE HOST TELEPHONE COMPANY (SBC) WILL INSTALL AND TEST THE NETWORK DATA CONNECTION THAT CONNECTS EACH PSAP'S ANI/ALI CONTROLLER WITH THE 9-1-1 DATABASE SYSTEMS LOCATED IN INDIANAPOLIS, IL AND AKRON, OH.

THE HOST TELEPHONE COMPANY (SBC) WILL INSTALL AND TEST THE NETWORK TRUNKING CONNECTIONS BETWEEN THE ANI/ALI CONTROLLER FOR EACH PSAP AND THE 9-1-1 SELECTIVE ROUTING TANDEM IN KENT, OH

A COUNTYWIDE EMERGENCY NOTIFICATION SYSTEM WILL BE INSTALLED AND AVAILABLE TO EMERGENCY SERVICE PROVIDERS, INCLUDING PSAP LOCATIONS, FOR THE PURPOSE OF NOTIFYING THE RESIDENTS AND BUSINESSES WITHIN THE COUNTY OF EMERGENCY EVENTS, I.E., EVACUATIONS, STORM ALERTS, AMBER ALERTS, NEIGHBORHOOD WATCH ALERTS, UTILITY INTERRUPTIONS, ETC.

Columbiana County 9-1-1

9-1-1 FUNDING

FUNDING FOR 9-1-1 IS GENERATED BY A MONTHLY FIFTY-CENT SURCHARGE (EFFECTIVE 4/1/04) FROM WIRELINE TELEPHONE SUBSCRIBERS AND A MONTHLY THIRTY-TWO CENT SURCHARGE (EFFECTIVE 8/1/05) FROM WIRELESS TELEPHONE SUBSCRIBERS. SBC TELEPHONE COMPANY, BY ORDER OF THE PUBLIC UTILITY COMMISSION OF OHIO (PUCO) CASE NUMBER 99-0938-TP-COI, CONTRIBUTED FIVE HUNDRED FORTY-FIVE THOUSAND DOLLARS TOWARD THE PURCHASE OF 9-1-1 EQUIPMENT. THE COLUMBIANA COUNTY BOARD OF COMMISSIONERS IS THE GOVERNING BODY RESPONSIBLE FOR THE COUNTYWIDE 9-1-1 FUNDS.

THE COLUMBIANA COUNTY BOARD OF COMMISSIONERS, THE 9-1-1 PLANNING COMMITTEE, THE 9-1-1 TECHNICAL ADVISORY COMMITTEE, AND THE EMERGENCY SERVICES COMMITTEE ARE NOT AUTHORIZED OR RESPONSIBLE FOR THE COSTS OF STAFFING, FACILITIES, UTILITY EXPENSES, INSURANCE, SUPPLIES, AND MISCELLANEOUS OTHER COSTS FOR EACH PRIMARY PSAP CENTER. THESE COSTS WERE, AND CONTINUE WITH THIS PLAN, TO BE THE RESPONSIBILITY GOVERNING BODY FOR EACH PSAP'S POLITICAL SUBDIVISION. THE SHERIFF IS RESPONSIBLE FOR THESE COSTS AT THE SHERIFF PSAP CENTER.

THE COUNTY BOARD OF COMMISSIONERS, THE PLANNING COMMITTEE, THE TECHNICAL ADVISORY COMMITTEE, AND THE EMERGENCY SERVICES COMMITTEE GOAL, AS IT APPLIES TO THE PROVISIONING OF 9-1-1 SERVICES DESCRIBED IN THIS PLAN, IS TO REDUCE THE TIME IT TAKES TO GET EMERGENCY SERVICE PROVIDERS TO THE SCENE OF AN EMERGENCY. EFFORTS AND DECISIONS MADE TOWARD ACCOMPLISHING THIS GOAL ATTEMPT TO FOCUS ON THIS OBJECTIVE, AND TO THE EXTENT POSSIBLE, THESE ENTITIES WILL STRIVE TO PROVIDE THE 9-1-1 EQUIPMENT, THE COMPUTER AIDED DISPATCH (CAD) SOFTWARE, THE MAPPING SOFTWARE, THE RECORDS MANAGEMENT SOFTWARE, THE 9-1-1 LOCATION DATABASE, THE COUNTYWIDE 9-1-1 FACILITIES NETWORK, THE ONGOING MAINTENANCE, AND ANY MISCELLANEOUS PRINTER/FAXES/OTHER DEVICES NEEDED FOR THE DELIVERY OF EMERGENCY LOCATION INFORMATION TO ALL COUNTYWIDE EMERGENCY FIRST RESPONDING AGENCIES. COSTS FOR THE INSTALLATION, TESTING, AND TRAINING OF THE 9-1-1 EQUIPMENT WILL BE COVERED BY THE COUNTY 9-1-1 FUND.

ALL FUNDING RECEIVED THROUGH LEGISLATION PASSED BY THE STATE OF OHIO OR THE COUNTY OF COLUMBIANA WILL BE USED SOLELY FOR THE IMPLEMENTATION AND OPERATION OF 9-1-1 SERVICES IN COLUMBIANA COUNTY.

Columbiana County 9-1-1

9-1-1 INCOME

THE FOLLOWING IS AN ESTIMATE OF THE ANNUAL INCOME GENERATED BY THE SURCHARGE IMPLEMENTED FOR THE ACTIVATION OF E9-1-1 AND W9-1-1 SERVICES:

WIRELINE E9-1-1 SURCHARGE (.50 PER ACCESS LINE PER MONTH) EFFECTIVE 4-1-04 (ESTIMATED 35,000 ACCESS LINES)	210,000.00
WIRELESS 9-1-1 SURCHARGE (.32 PER CELL PHONE PER MONTH) EFFECTIVE 8-1-05 (ESTIMATED 45,000 ACCESS LINES)	162,000.00
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ANNUAL TOTAL	373,000.00

THE FOLLOWING IS AN ESTIMATE OF THE ONE TIME ANNUAL INCOME GENERATED BY IMPLEMENTATION GRANTS FROM SBC AND ARC.

SBC 9-1-1 IMPLEMENTATION GRANT	545,000.00
ARC 9-1-1 IMPLEMENTATION GRANT	186,000.00
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ONE TIME TOTAL FOR 2005	732,000.00

Columbiana County 9-1-1

9-1-1 IMPLEMENTATION COSTS

THE COSTS SHOWN ARE A COMPREHENSIVE ESTIMATE OF THE EQUIPMENT REQUIREMENTS RELATED TO THE IMPLEMENTATION OF E9-1-1 WITH FUTURE COMPATIBILITY FOR W9-1-1 EQUIPMENT FOR A COUNTYWIDE 9-1-1 SYSTEM. THE COSTS WERE COMPILED BY THE 9-1-1 TECHNICAL ADVISORY COMMITTEE.

SALEM PD PSAP

REMODELING AND CONSTRUCTION	30,000.00
ELECTRICAL WIRING	3,000.00
TELEPHONE WORK	1,000.00
RADIO WORK	1,000.00
WORKSTATION CONSOLES	16,000.00
9-1-1 COMPUTER SYSTEM	58,000.00
MAPPING COMPUTER SYSTEM	58,000.00
RECORDS MANAGEMENT COMPUTER SYSTEM	9,000.00
CAD COMPUTER SYSTEM	60,000.00
UPS AND GENERATOR	2,000.00
TOTAL	\$238,000.00

COLUMBIANA PD PSAP

REMODELING AND CONSTRUCTION	10,000.00
ELECTRICAL WIRING	3,000.00
TELEPHONE WORK	1,000.00
RADIO WORK	1,000.00
WORKSTATION CONSOLES	24,000.00
9-1-1 COMPUTER SYSTEM	58,000.00
MAPPING COMPUTER SYSTEM	58,000.00
RECORDS MANAGEMENT COMPUTER SYSTEM	9,000.00
CAD COMPUTER SYSTEM	60,000.00
UPS AND GENERATOR	2,000.00
TOTAL	\$226,000.00

EAST PALESTINE PD PSAP

REMODELING AND CONSTRUCTION	10,000.00
ELECTRICAL WIRING	3,000.00
TELEPHONE WORK	1,000.00
RADIO WORK	1,000.00
WORKSTATION CONSOLES	20,000.00
9-1-1 COMPUTER SYSTEM	58,000.00
MAPPING COMPUTER SYSTEM	58,000.00
RECORDS MANAGEMENT COMPUTER SYSTEM	9,000.00
CAD COMPUTER SYSTEM	60,000.00
UPS AND GENERATOR	2,000.00
TOTAL	\$222,000.00

Columbiana County 9-1-1

EAST LIVERPOOL PD PSAP

REMODELING AND CONSTRUCTION	10,000.00
ELECTRICAL WIRING	3,000.00
TELEPHONE WORK	1,000.00
RADIO WORK	1,000.00
WORKSTATION CONSOLES	21,000.00
9-1-1 COMPUTER SYSTEM	58,000.00
MAPPING COMPUTER SYSTEM	58,000.00
RECORDS MANAGEMENT COMPUTER SYSTEM	9,000.00
CAD COMPUTER SYSTEM	60,000.00
UPS AND GENERATOR	3,000.00
TOTAL	\$224,000.00

COLUMBIANA COUNTY SHERIFF PSAP

REMODELING AND CONSTRUCTION	30,000.00
ELECTRICAL WIRING	3,000.00
TELEPHONE WORK	1,000.00
RADIO WORK	1,000.00
WORKSTATION CONSOLES	26,000.00
9-1-1 COMPUTER SYSTEM	58,000.00
MAPPING COMPUTER SYSTEM	58,000.00
RECORDS MANAGEMENT COMPUTER SYSTEM	9,000.00
CAD COMPUTER SYSTEM	60,000.00
UPS AND GENERATOR	3,000.00
TOTAL	\$249,000.00

Columbiana County 9-1-1

ONGOING IMPLEMENTATION COSTS

FIRST YEAR ANNUAL COSTS

E9-1-1 EQUIPMENT COSTS (MINUS CAD & RMS)	814,000.00
E9-1-1 IMPLEMENTATION COSTS	50,000.00

SECOND YEAR ANNUAL COSTS

E9-1-1 IMPLEMENTATION COSTS (FOR RMS)	45,000.00
RADIO EQUIPMENT UPGRADES.....	100,000.00
W9-1-1 IMPLEMENTATION COSTS.....	50,000.00
COUNTY 9-1-1 COORDINATOR	36,000.00
SECOND YEAR MAINTENANCE	65,000.00

THIRD YEAR ANNUAL COSTS

E9-1-1 IMPLEMENTATION COSTS (FOR CAD)	300,000.00
W9-1-1 OPERATIONAL COSTS.....	45,000.00
COUNTY 9-1-1 COORDINATOR	37,000.00
THIRD YEAR MAINTENANCE	70,200.00

FOURTH YEAR ANNUAL COSTS

COUNTY 9-1-1 COORDINATOR	38,200.00
W9-1-1 OPERATIONAL COSTS.....	50,000.00
FOURTH YEAR MAINTENANCE	75,800.00

FIFTH YEAR ANNUAL COSTS

COUNTY 9-1-1 COORDINATOR	39,400.00
W9-1-1 OPERATIONAL COSTS.....	55,000.00
FIFTH YEAR MAINTENANCE	81,900.00

Columbiana County 9-1-1

RADIO COMMUNICATIONS

RADIO COMMUNICATIONS THROUGHOUT THE COUNTY WILL CONTINUE TO USE EXISTING EQUIPMENT AND FREQUENCY INTEGRATION. THE 9-1-1 FUND WILL PROVIDE ADDITIONAL RADIO CONTROLLER CONSOLES AND/OR COMPUTER BASED RADIO CONTROLLERS AS FUNDING ALLOWS. AVAILABLE ASSETS WILL ALSO BE USED TO IMPROVE RADIO SERVICE COVERAGE AND INTEROPERABILITY COMMUNICATIONS WHERE FEASIBLE.

IT IS NOT THE RESPONSIBILITY OF THIS 9-1-1 PLAN OR THE 9-1-1 FUND TO PROVIDE FOR THE FOLLOWING:

- RADIO RECEIVERS NEEDED TO PROVIDE RECEPTION OF COMMUNICATIONS FROM ANY AREA OF COLUMBIANA COUNTY.
- RADIO TRANSMITTERS SUFFICIENT TO COMMUNICATE ANYWHERE WITHIN COLUMBIANA COUNTY.
- NECESSARY BUILDINGS REQUIRED TO HOUSE TRANSMITTERS AND RECEIVERS AND PROVIDE FOR THE SECURITY OF THEM.
- ANTENNA'S AND TOWERS ALONG WITH ASSOCIATED EQUIPMENT.
- FENCING FOR SITES AS REQUIRED PROVIDING FOR SAFETY AND SECURITY.
- BACKUP BATTERIES FOR RADIO EQUIPMENT TO PROVIDE FOR 24 HOURS OF OPERATION AND BATTERY CHARGER TO KEEP THEM CHARGED.
- TELEPHONE LINES NEEDED TO CONNECT RADIO EQUIPMENT TO PSAP.
- PROPAGATION STUDY TO SELECT SITES FOR OPTIMUM COMMUNICATIONS RECEPTION AND THE NECESSARY FREQUENCY REQUESTS TO FCC.

Columbiana County 9-1-1

STAFFING AND PERSONNEL

ALL COSTS ASSOCIATED WITH STAFFING AND PERSONNEL FOR THE OPERATION OF COUNTYWIDE 9-1-1 EMERGENCY SERVICES AT EACH OF THE FIVE (5) PRIMARY PSAP CENTERS WILL BE THE RESPONSIBILITY OF THE AGENCY PROVIDING THOSE SERVICES. THE LOCAL AGENCY'S PERSONNEL EMPLOYMENT PRACTICES AND POLICIES WILL APPLY TO THESE EMPLOYEES (I.E. - BENEFITS, VACATIONS, HOLIDAYS, MEDICAL COVERAGE, INSURANCES, WORKMEN'S COMPENSATION, TAXES, AND EMPLOYMENT/TERMINATION PROCEDURES).

THE COUNTY 9-1-1 FUND WILL PAY FOR TRAINING OF PERSONNEL FOR THE FIVE (5) PRIMARY PSAP'S ON 9-1-1 EQUIPMENT AND SYSTEMS OPERATIONS AND THE ONGOING TRAINING FOR THE 9-1-1 EQUIPMENT AND SYSTEMS. THE 9-1-1 FUND DOES NOT COVER WAGES, SALARIES, BENEFITS, MEALS, LODGING, OVERTIME, AND/OR SUBSTITUTE PAY FOR EMPLOYEES ATTENDING TRAINING.

Columbiana County 9-1-1

WIRELESS 9-1-1 (W9-1-1) IMPLEMENTATION

PHASE 0 – BASIC WIRELESS 9-1-1 SERVICE – WIRELESS SERVICE PROVIDERS WITH TOWERS LOCATED IN ALL AREAS SERVING CUSTOMERS IN COLUMBIANA COUNTY, EXCEPT THE EAST LIVERPOOL, WELLSVILLE AND ST. CLAIR TOWNSHIP AREAS, SHALL DIRECT 9-1-1 EMERGENCY CALLS TO THE FOLLOWING TEN (10) DIGIT TELEPHONE NUMBER LOCATED AT THE SHERIFF DEPARTMENT:

SHERIFF DEPARTMENT W9-1-1 NUMBER 330 424-7181

WIRELESS SERVICE PROVIDERS WITH TOWERS LOCATED IN THE EAST LIVERPOOL, WELLSVILLE AND ST. CLAIR TOWNSHIP AREAS SHALL DIRECT 9-1-1 EMERGENCY CALLS TO THE FOLLOWING TEN (10) DIGIT TELEPHONE NUMBER LOCATED AT THE EAST LIVERPOOL POLICE DEPARTMENT:

EAST LIVERPOOL W9-1-1 NUMBER 330 385-3078

PHASE I – ENHANCED WIRELESS 9-1-1 SERVICE – WIRELESS SERVICE PROVIDERS WITH TOWERS LOCATED IN ALL AREAS SERVING CUSTOMERS IN COLUMBIANA COUNTY SHALL DIRECT 9-1-1 EMERGENCY CALLS TO THE COLUMBIANA COUNTY 9-1-1 PSAP THAT BEST SERVES THE GEOGRAPHIC AREA COVERED BY THE MAJORITY OF AN OMNI-DIRECTIONAL TOWER OR THE MAJORITY OF EACH SERVING SECTOR OF THE SECTORIZED TOWERS.

WIRELESS SERVICE PROVIDERS WILL ASSIGN A PSEUDO-ANI (PANI) TELEPHONE NUMBER FOR EACH OMNI-DIRECTIONAL TOWER AND EACH SECTOR OF A SECTORIZED TOWER. THE PANI NUMBERS WILL BE ENTERED INTO THE ALI DATABASE SYSTEM AND WILL DISPLAY THE FOLLOWING INFORMATION AT THE PSAP:

- THE WIRELESS SERVICE PROVIDER (WIRELESS CARRIER NAME)
- THE TOWER ADDRESS
- THE OMNI-DIRECTIONAL DESIGNATION IF APPLICABLE
- THE DIRECTIONAL SECTOR OF SECTORIZED TOWERS
- A LIST OF THE MOST LIKELY EMERGENCY PROVIDERS FOR THE TERRITORY ORIGINATING THE W9-1-1 CALL
- THE CALLBACK TELEPHONE NUMBER OF THE 9-1-1 EMERGENCY CALLER

PHASE II – LOCATION ENHANCED WIRELESS 9-1-1 SERVICE – WIRELESS SERVICE PROVIDERS WITH TOWERS LOCATED IN ALL AREAS SERVING CUSTOMERS IN COLUMBIANA COUNTY SHALL CONTINUE TO DIRECT CALLS ACCORDING TO THE ROUTING ESTABLISHED IN PHASE I OF THE WIRELESS IMPLEMENTATION PROCESS. WIRELESS SERVICE PROVIDERS WILL CONTINUE TO DELIVER THE SAME INFORMATION TO THE PSAP ESTABLISHED IN PHASE I OF THE WIRELESS IMPLEMENTATION ALONG WITH THE FOLLOWING ADDITIONS:

Columbiana County 9-1-1

- LONGITUDE AND LATITUDE (X AND Y) LOCATION COORDINATES OF A W9-1-1 CALLER
- ALTITUDE OF WIRELESS CARRIERS UTILIZING GPS TECHNOLOGY
- ACCURACY OF THE LOCATION COORDINATES TO WITHIN THREE (3) METERS AT LEAST SIXTY (60) PERCENT OF THE TIME

ALL FIVE PSAP'S WILL RECEIVE WIRELESS 9-1-1 CALLS AFTER THE ACTIVATION OF PHASE I SERVICE.

IN COMPLIANCE WITH FCC REPORT AND ORDER NUMBER 94-102, THE COUNTY OF COLUMBIANA IS PREPARED TO RECEIVE PHASE I AND PHASE II WIRELESS 9-1-1 CALLS FROM ALL WIRELESS SERVICE PROVIDERS (WIRELESS CARRIERS) SERVING WIRELESS CUSTOMERS IN THE GEOGRAPHIC AREA OF COLUMBIANA COUNTY OHIO.

ANY WIRELESS SERVICE PROVIDER (WIRELESS CARRIER), LOCAL TELEPHONE SERVICE PROVIDER (LEC), INTERNET TELEPHONE SERVICE PROVIDER (VoIP), INCUMBENT LOCAL EXCHANGE CARRIER (ILEC) PROVIDING HOST TELEPHONE COMPANY 9-1-1 SERVICES, AND COMPETITIVE LOCAL EXCHANGE CARRIER (CLEC) SERVICE PROVIDERS ARE REQUIRED TO COMPLY WITH THIS 9-1-1 FINAL PLAN.

ALL FUNDING RECEIVED THROUGH LEGISLATION FROM THE STATE OF OHIO WILL BE USED SOLELY FOR THE IMPLEMENTATION AND OPERATION OF 9-1-1 SERVICES IN COLUMBIANA COUNTY.

Columbiana County 9-1-1

AMENDING THIS PLAN

THIS PLAN CALLS FOR THE CONVENING OF THE COLUMBIANA COUNTY EMERGENCY SERVICES COMMITTEE ON THE DATE OF THE PUBLICLY ANNOUNCED ACTIVATION DATE OF ENHANCED 9-1-1 SERVICE.

AMENDMENTS TO THIS PLAN MUST BE SUBMITTED TO THE EMERGENCY SERVICES COMMITTEE FOR THEIR REVIEW AND CONSIDERATION. IF THE MAJORITY OF THE EMERGENCY SERVICES COMMITTEE AGREES TO AN AMENDMENT, THE AMENDED 9-1-1 FINAL PLAN MUST BE SUBMITTED TO AND REVIEWED BY THE COLUMBIANA COUNTY BOARD OF COUNTY COMMISSIONERS AND UNLESS DETERMINED TO BE A MAJOR AMENDMENT (SEE NEXT PARAGRAPH) UPON APPROVAL BECOMES EFFECTIVE.

MAJOR AMENDMENTS (CONSIDER SO BY EITHER THE EMERGENCY SERVICES COMMITTEE OR THE BOARD OF COMMISSIONERS) UPON APPROVAL BY THE COMMISSIONERS WILL BE PRESENTED TO THE GOVERNING BODIES OF ALL POLITICAL SUBDIVISIONS THROUGHOUT THE COUNTY FOR THEIR REVIEW AND CONSIDERATION. UPON RECEIPT OF RESOLUTIONS SUPPORTING THE AMENDED 9-1-1 FINAL PLAN FROM THE POLITICAL SUBDIVISIONS REPRESENTING OVER SIXTY PERCENT OF THE POPULATION OF THE COUNTY, THE MAJOR AMENDMENT BECOMES EFFECTIVE. ONCE IN EFFECT, A COPY OF THE AMENDED 9-1-1 FINAL PLAN WILL BE SUBMITTED TO THE PUBLIC UTILITIES COMMISSION OF OHIO (PUCO).

WHENEVER CHANGES TO THE EXISTING WORDING, PARAGRAPHS, PAGES, AND/OR ATTACHMENTS OF THE CURRENTLY ADOPTED 9-1-1 FINAL PLAN ARE PROPOSED AS AMENDMENTS, THE ORIGINAL WORDING, PARAGRAPHS, PAGES, AND/OR ATTACHMENTS OF THE CURRENTLY ADOPTED 9-1-1 FINAL PLAN WILL BE ADDED TO THE APPENDICES SECTION TO PROVIDE AN ONGOING HISTORY OF THE PLAN.

Columbiana County 9-1-1

GLOSSARY OF TERMS

9-1-1 SYSTEM	9-1-1 SYSTEM MEANS A SYSTEM THROUGH WHICH INDIVIDUALS CAN REQUEST EMERGENCY SERVICE BY DIALING THE TELEPHONE NUMBER 9-1-1.
AUTOMATIC LOCATION IDENTIFICATION “ALI”	“ALI” IS THE AUTOMATIC DISPLAY OF THE STREET ADDRESS ASSOCIATED WITH THE TELEPHONE NUMBER (ANI) WHICH IS DISPLAYED ON A SCREEN AT THE TELECOMMUNICATOR’S POSITION AT A PSAP.
ALTERNATE ROUTING	AUTOMATICALLY RE-ROUTING OF A 9-1-1 CALL TO A DESIGNATED ALTERNATE LOCATION IF ALL 9-1-1 TRUNKS ARE BUSY, OUT OF SERVICE, OR NOT ANSWERED AT THE PRIMARY DESIGNATED PSAP.
AUTOMATIC NUMBER IDENTIFICATION “ANI”	“ANI” IS THE AUTOMATIC DISPLAY OF THE TELEPHONE NUMBER OF THE CALLING PARTY AT THE TELECOMMUNICATOR’S POSITION AT A PSAP.
BASIC 9-1-1 SERVICE	PROVIDES ONLY THE THREE DIGIT DIALING OF 9-1-1 FOR EMERGENCY ASSISTANCE. THERE IS NOT DISPLAY OF A CALLERS TELEPHONE NUMBER OR LOCATION ASSOCIATED WITH BASIC 9-1-1 SERVICE.
BOARD OF COUNTY COMMISSIONERS	INCLUDES THE LEGISLATIVE AUTHORITY OF A COUNTY ESTABLISHED UNDER SECTION 3 OF ARTICLE X, OHIO CONSTITUTION, OR CHAPTER 302 . OF THE REVISED CODE.
COMPUTER AIDED DISPATCH “CAD”	“CAD” IS A COMPUTER SYSTEM USED IN A PSAP TO AUTOMATE SOME CALL HANDLING DUTIES AND TO INCREASE EFFICIENCY AND ACCURACY OF CALL HANDLING. CAD SYSTEMS ARE OFTEN INTERFACED WITH LARGE DATABASES OF REFERENCE INFORMATION AND MAY BE INTERFACED WITH GEOGRAPHICAL INFORMATION SYSTEMS (GIS). CAD SYSTEMS ARE ALSO USED TO RECEIVE THE DATE FROM 9-1-1 TELEPHONE CALLS, SUCH AS THE ANI AND ALI INFORMATION.
CENTRAL OFFICE “C.O.”	A TELEPHONE SWITCHING CENTER THAT PROVIDES TELEPHONE SERVICE USERS IN A PARTICULAR GEOGRAPHICAL SERVICE AREA. THERE MAY BE MORE THAN ONE CENTRAL OFFICE LOCATED IN THE SAME BUILDING. THE CENTRAL OFFICE IS SOMETIMES CALLED THE “END OFFICE”.
CUSTOMER PREMISES EQUIPMENT “CPE”	MEANS TELECOMMUNICATIONS EQUIPMENT, INCLUDING TELEPHONE INSTRUMENTS, ON THE PREMISES OF A PUBLIC SAFETY ANSWERING POINT THAT IS USED IN ANSWERING AND RESPONDING TO 9-1-1 SYSTEM CALLS.
DATABASE	A DATABASE IS AN ORGANIZED COLLECTION OF DATA THAT RESIDES WITHIN A COMPUTER SYSTEM. A DATABASE IS

Columbiana County 9-1-1

COMPRISED OF FIELDS, RECORDS, AND INDEXES. THE FIELDS ARE NAMED FOR THE TYPE OR KIND OF INFORMATION CONTAINED IN EACH, WHICH MAY BE ALPHA, NUMERIC, OR A COMBINATION OF BOTH. A RECORD IS CREATED BY COMBINING AS MANY FIELDS AS NECESSARY TO CONTAIN THE REQUIRED INFORMATION. THE INDEX IS THE KEY FIELD, OR A FIELD THAT HAS BEEN SORTED INTO A PARTICULAR ORDER, TO FACILITATE THE LOCATION OF DESIRED RECORDS.

DEFAULT ROUTING	THE ROUTING SCHEME OF 9-1-1 CALLS IN AN AREA WHEN THE CALL CANNOT BE ROUTED TO THE NORMAL DESTINATION. THIS IS UTILIZED WHEN THERE IS A FAILURE OF A CRITICAL PART OF THE 9-1-1 SYSTEM.
ENHANCED 9-1-1 "E9-1-1"	"E9-1-1" IS A 9-1-1 SYSTEM WHERE THE TELEPHONE NETWORK AUTOMATICALLY PROVIDES THE EMERGENCY SERVICE PERSONNEL RECEIVING A 9-1-1 CALL INFORMATION ON THE CALLERS LOCATION AND TELEPHONE NUMBER; AND ROUTES THE CALL TO PROPER EMERGENCY SERVICE PROVIDER THAT SERVES THAT LOCATION; AND DISPLAYS A LIST OF THE EMERGENCY SERVICE PROVIDERS THAT SERVE THAT LOCATION.
EMERGENCY SERVICE	MEANS EMERGENCY LAW ENFORCEMENT, HIGHWAY PATROL, FIREFIGHTING, AMBULANCE, RESCUE, AND MEDICAL SERVICE AGENCY.
FINAL PLAN	MEANS A FINAL PLAN ADOPTED UNDER DIVISION (B) OF SECTION 4931.44 OF THE REVISED CODE AND, EXCEPT AS OTHERWISE EXPRESSLY PROVIDED, AN AMENDED FINAL PLAN ADOPTED UNDER SECTION 4931.45 OF THE REVISED CODE.
FORCED DISCONNECT	A FEATURE THAT ALLOWS AN OPERATOR TO CLEAR A 9-1-1 CALL LINE TO PREVENT ANYONE FROM TYING UP LINE.
EMERGENCY SERVICE PROVIDER	MEANS AN EMERGENCY SERVICE DEPARTMENT OR UNIT OF A SUBDIVISION THAT OPERATES IN A SUBDIVISION UNDER CONTRACT WITH THE SUBDIVISION OR THE STATE HIGHWAY PATROL.
MUNICIPAL CORPORATION	INCLUDES ANY MUNICIPAL CORPORATION THAT IS WHOLLY CONTAINED IN THE COUNTY AND EACH MUNICIPAL CORPORATION LOCATED IN MORE THAN ONE COUNTY THAT HAS A GREATER PROPORTION OF ITS TERRITORY IN THE COUNTY TO WHICH THE TERM REFERS THAN IN ANY OTHER COUNTY.
MASTER STREET ADDRESS GUIDE	"MSAG" DATABASE CONTAINS THE GEOGRAPHIC DATA ON RESIDENTS' COMMUNITIES, STREET NAMES, AND STREET

Columbiana County 9-1-1

“MSAG”	ADDRESS RANGES. THE MSAG IDENTIFIES AREAS OF RESPONSIBILITY FOR POLICE, FIRE, AND EMS.
PRIMARY PSAP	THE INITIAL LOCATION A 9-1-1 CALL IS ROUTED AND MUST BE STAFFED 7 DAYS PER WEEK AND 24 HRS PER DAY.
PRINTER	A COMPUTER PRINTER THAT WHEN CONNECTED TO THE 9-1-1 EQUIPMENT PRINTS A COPY OF THE TELEPHONE PHONE NUMBER AND ADDRESS; AS WELL AS DATE, TIME, ANSWER POSITION, AND TRANSFER INFORMATION; AND THE DATE AND TIME THE CALL TERMINATED. PRINTERS AT OTHER EMERGENCY SERVICE PROVIDERS WILL PRINT SAME INFORMATION.
PUBLIC SAFETY ANSWERING POINT “PSAP”	“PSAP” MEANS A FACILITY TO WHICH 9-1-1 SYSTEM CALLS FOR A SPECIFIC TERRITORY ARE INITIALLY ROUTED FOR RESPONSE AND WHERE SUBDIVISION PERSONNEL RESPOND TO SPECIFIC REQUESTS FOR EMERGENCY SERVICE BY DIRECTLY DISPATCHING THE APPROPRIATE EMERGENCY SERVICE PROVIDER, RELAYING A MESSAGE TO THE APPROPRIATE PROVIDER, OR TRANSFERRING THE CALL TO THE APPROPRIATE PROVIDER.
SECONDARY PSAP	THE PSAP TO WHICH A PRIMARY PSAP MAY TRANSFER A CALL BY ONE BUTTON.
SINGLE BUTTON TRANSFER “SBT”	SINGLE BUTTON TRANSFER ALLOWS PRIMARY PSAP TO TRANSFER A CALL TO SECONDARY PSAP OR OTHER EMERGENCY SERVICE WITH ONE TOUCH OF A BUTTON.
SELECTIVE ROUTING “SR”	“SR” AN ADVANCED COMPUTERIZED FEATURE THAT DIRECTS 9-1-1 CALLS TO THE PROPER COUNTY AND THE PROPER PSAP WITHIN THE COUNTY.
SUBDIVISION SERVED BY A PSAP	MEANS A SUBDIVISION THAT PROVIDES EMERGENCY SERVICE FOR ANY PART OF ITS TERRITORY THAT IS LOCATED WITHIN THE TERRITORY OF A PUBLIC SAFETY ANSWERING POINT WHETHER THE SUBDIVISION PROVIDES THE EMERGENCY SERVICE WITH ITS OWN EMPLOYEES OR PURSUANT TO A CONTRACT.
SUBDIVISION	A COUNTY, MUNICIPAL CORPORATION, TOWNSHIP, TOWNSHIP FIRE DISTRICT, JOINT FIRE DISTRICT, TOWNSHIP POLICE DISTRICT, JOINT AMBULANCE DISTRICT, OR JOINT EMERGENCY MEDICAL SERVICES DISTRICT THAT PROVIDES EMERGENCY SERVICE WITHIN ITS TERRITORY, OR THAT CONTRACTS WITH ANOTHER MUNICIPAL CORPORATION, TOWNSHIP, OR DISTRICT OR WITH A PRIVATE ENTITY TO PROVIDE SUCH SERVICE; AND A STATE COLLEGE OR UNIVERSITY, PORT AUTHORITY, OR PARK DISTRICT OF ANY KIND THAT EMPLOYS LAW ENFORCEMENT OFFICERS THAT

Columbiana County 9-1-1

ACT AS THE PRIMARY POLICE FORCE ON THE GROUNDS OF THE COLLEGE OR UNIVERSITY OR PORT AUTHORITY OR IN THE PARKS OPERATED BY THE DISTRICT.

TELEPHONE COMPANY MEANS A COMPANY ENGAGED IN THE BUSINESS OF PROVIDING LOCAL EXCHANGE TELEPHONE SERVICE BY MAKING AVAILABLE OR FURNISHING ACCESS AND A DIAL TONE TO PERSONS WITHIN A LOCAL CALLING AREA FOR USE IN ORIGINATING AND RECEIVING VOICE GRADE COMMUNICATIONS OVER A SWITCHED NETWORK OPERATED BY THE PROVIDER OF THE SERVICE WITHIN THE AREA AND GAINING ACCESS TO OTHER TELECOMMUNICATIONS SERVICES.

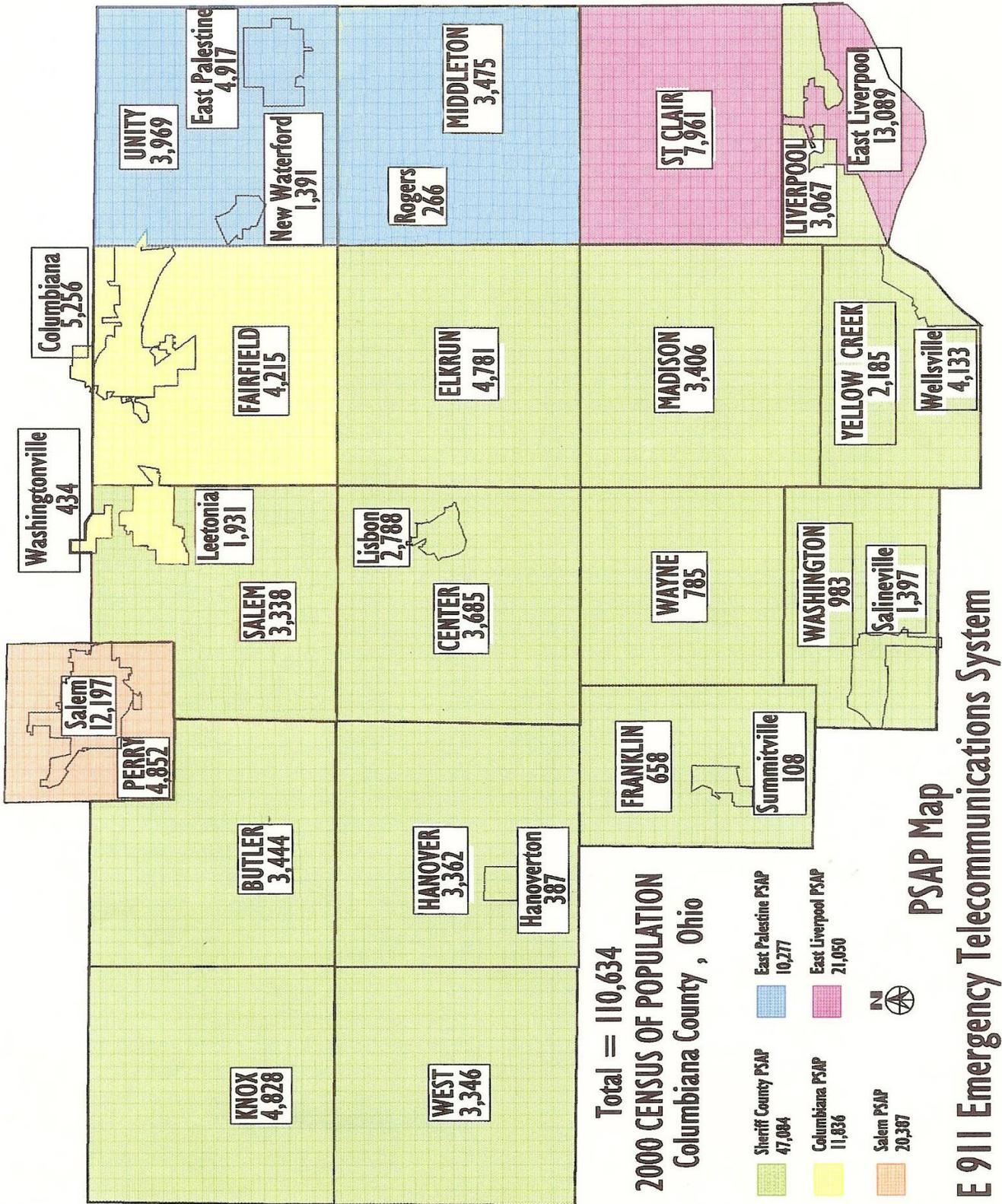
Columbiana County **9-1-1**

9-1-1 APPENDICES

APPENDIX APOLICE JURISDICTION MAP
APPENDIX B FIRE DEPARTMENT JURISDICTION MAP
APPENDIX C EMERGENCY MEDICAL SERVICE JURISDICTION MAP

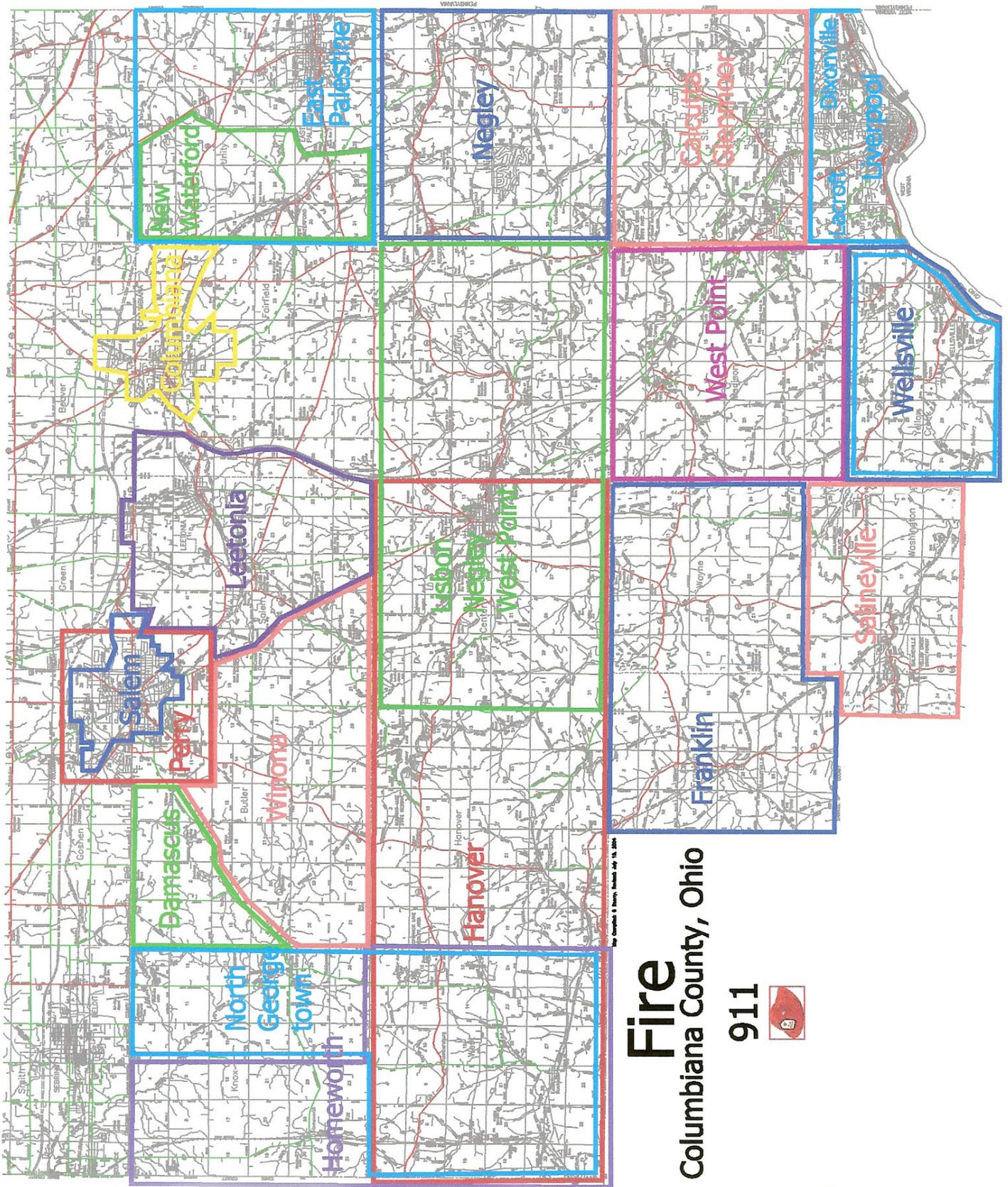
Columbiana County 9-1-1

APPENDIX A



Columbiana County 9-1-1

APPENDIX B



Columbiana County 9-1-1

APPENDIX C

