

CITY OF AURORA FIBER OPTIC MASTER PLAN

Deployment Plan Report - DRAFT

October 2022

Prepared for:

City of Aurora
15151 E Alameda Parkway
Aurora, CO 80012

Prepared by:

Muller Engineering Company
7245 West Alaska Drive
Suite 300
Lakewood, Colorado 80226
303.988.4939

Muller Project Number: 21-042.01



Table of Contents

1	INTRODUCTION	1
1.1	Purpose of Report	1
1.2	Study Area.....	1
1.3	Report Methodology & Organization	1
2	STAKEHOLDER DISCUSSIONS & PRIORITIES	2
2.1	External Stakeholders.....	2
2.2	Internal Stakeholders and Project Priority List	5
3	PRIORITY PROJECT DEPLOYMENT PLAN.....	8
3.1	Segment Priorities	8
3.1.1	Low and Medium Priority Segments and Future Segments	8
3.1.2	High Priority Segments	10
3.1.3	Very High Priority Segments	11
3.1.4	Very High Priority Segments - Short-term solutions	14
3.2	Segmentation Plan Summary.....	21

List of Figures

FIGURE 1: PROPOSED EAST COLFAX AVENUE BRT PROJECT LIMITS.....	2
FIGURE 2: AURORA OWNED CONDUIT & FIBER IN RTD ROW	3
FIGURE 3: CDOT FIBER ROUTES	4
FIGURE 4: OVERVIEW MAP OF SEGMENTS A, B, AND C.....	13
FIGURE 5: SEGMENT A CONNECTIVITY VIA CDOT	15
FIGURE 6: SEGMENT A CONNECTIVITY VIA EXISTING AURORA CONDUIT IN RTD R-LINE ..	17

List of Tables

TABLE 1: WATER FIBER CONNECTIONS PRIORITIES.....	6
TABLE 2: PROJECT PRIORITY LIST BASED ON INTERNAL STAKEHOLDER FEEDBACK	7
TABLE 3: LOW/MEDIUM PRIORITIES & FUTURE SEGMENTS COST BREAKDOWN	10
TABLE 4: HIGH PRIORITY SEGMENTS COST BREAKDOWN	11
TABLE 5: VERY HIGH PRIORITY SEGMENTS COST BREAKDOWN	12
TABLE 6: GRISWOLD WTP LATERAL CONNECTION COST.....	12
TABLE 7: NORTH SATELLITE TO AMC CONNECTION VIA CDOT FIBER COST.....	14
TABLE 8: NORTHWEST AURORA FACILITIES TO AMC CONNECTIONS – IT AND WATER COST	
18	

TABLE 9: NORTHWEST AURORA – PEORIA FITZSIMMONS SIGNAL CONNECTION COST	19
TABLE 10: NORTHWEST AURORA – PEORIA 30TH AND 33RD SIGNAL CONNECTION COST..	19
TABLE 11: NORTHWEST AURORA – FITZSIMMONS PARKWAY AND COLFAX SIGNAL CONNECTION COST	19
TABLE 12: NORTHWEST AURORA – AURORA TO CDOT AT COLFAX CONNECTION COST	20
TABLE 13: NORTHWEST AURORA – COLFAX – I-225 TO CHAMBERS CONNECTION COST.....	20
TABLE 14: NORTHWEST AURORA – SUMMARY OF TRAFFIC CONNECTION COSTS	20
TABLE 15: VERY HIGH PRIORITY AND SHORT-TERM SOLUTIONS COST SUMMARY	21

Appendices

APPENDIX A.....	i
------------------------	----------