

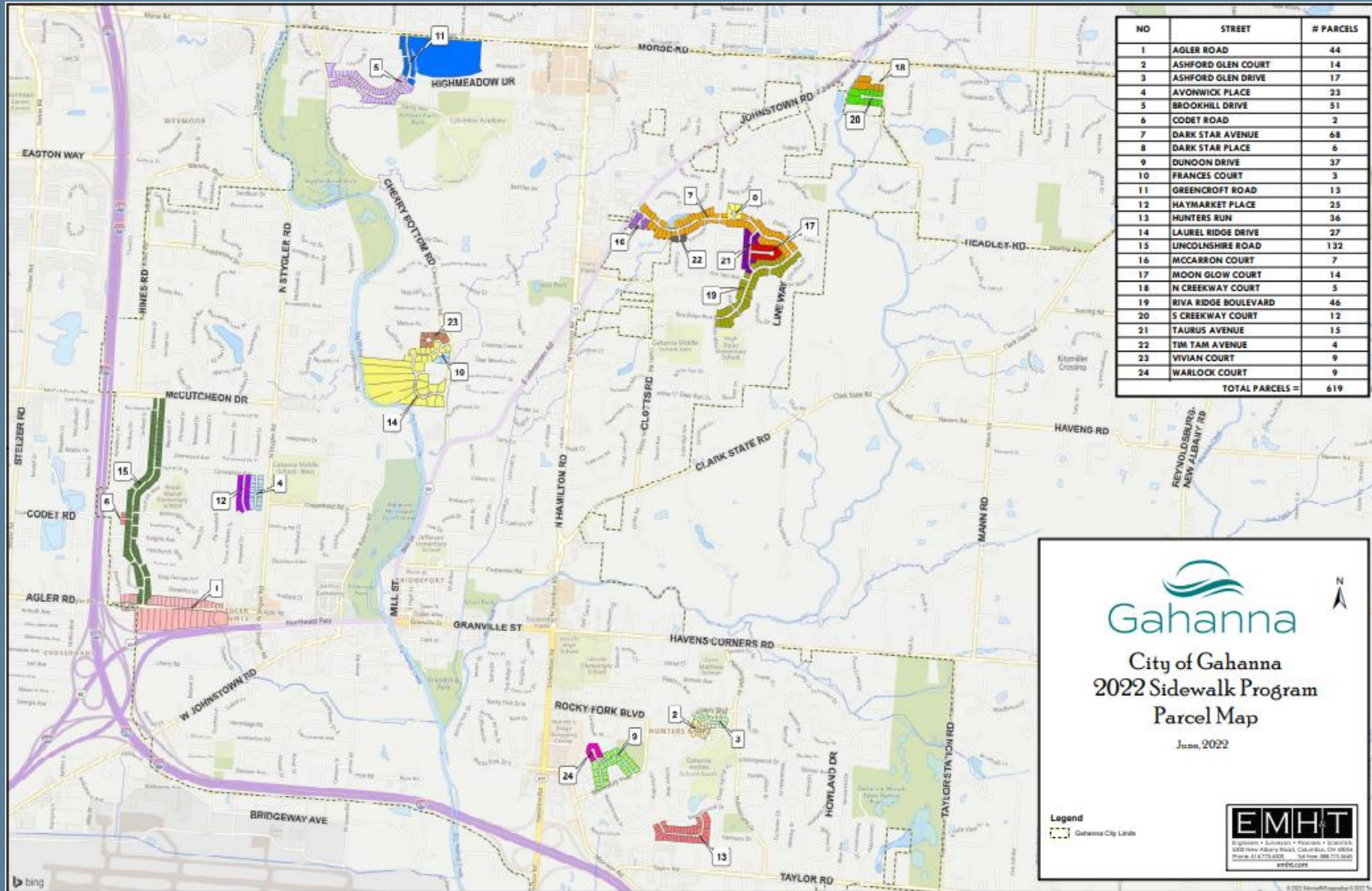


# Gahanna

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2022 SIDEWALK MAINTENANCE PROGRAM UPDATE

# 2022 Sidewalk Maintenance Program Update



# 2022 Sidewalk Maintenance Program Update

- 3 Program Areas (Approved by City Council on 7/18/2022)
  - RES-0016-2022
- 619 Properties
- Available funds: ≈ \$900,000
- Engineer's Estimate of Probable Cost
  - \$2,306,062 (w/o Contingency)
    - Property Owners' Probable Cost - \$1,955,705
    - City's Probable Cost - \$350,357
  - \$2,536,667 (w Contingency)
    - Property Owners' Probable Cost - \$2,151,276
    - City's Probable Cost - \$385,393

# 2022 Sidewalk Maintenance Program Update

## Program Area 1 of 3

- 189 Properties
  - Agler, Codet, Lincolnshire, North Creekway, South Creekway
- Engineer's Estimate of Probable Cost
  - \$767,223 (w/o Contingency)
    - Property Owners' Probable Cost - \$679,649
    - City's Probable Cost - \$87,574
  - \$843,945 (w/ Contingency)
    - Property Owners' Probable Cost - \$747,614
    - City's Probable Cost - \$96,331

# 2022 Sidewalk Maintenance Program Update

## Program Area 2 of 3

- 224 Properties

- Ashford Glen Ct, Ashford Glen Dr, Avonwick Pl, Brookhill Dr, Frances Ct, Greencroft Rd, Haymarket Pl, Hunters Run, Laurel Ridge Dr, Vivian Ct

- Engineer's Estimate of Probable Cost

- \$774,182 (w/o Contingency)

- Property Owners' Probable Cost - \$681,441
- City's Probable Cost - \$92,741

- \$851,600 (w/ Contingency)

- Property Owners' Probable Cost - \$749,585
- City's Probable Cost - \$102,015

# 2022 Sidewalk Maintenance Program Update

## Program Area 3 of 3

- 205 Properties
  - Dark Star Ave, Dark Star Pl, Dunoon Dr, McCarron Ct, Moon Glow Ct, Riva Ridge Blvd, Taurus Ave, Tim Tam, Warlock Ct
- Engineer's Estimate of Probable Cost
  - \$764,657 (w/o Contingency)
    - Property Owners' Probable Cost - \$594,615
    - City's Probable Cost - \$170,042
  - \$841,122 (w/ Contingency)
    - Property Owners' Probable Cost - \$654,076
    - City's Probable Cost - \$187,046

# 2022 Sidewalk Maintenance Program Update

## Options:

- A. Move forward with all 3 program areas with the understanding that a supplemental appropriation in excess of \$1.6M will be required if none of the property owners opt out and perform the work themselves.
- B. Scale the program down to one of the program areas to stay within budget available.
- C. Scale the program down to two of the program areas with the understanding that a supplemental appropriation will still be needed; however, about \$800,000
- D. Utilize technology to capture deficiencies citywide, allowing the baseline information obtained from the Street and Sidewalk Ratings to inform program areas for 2024 and beyond

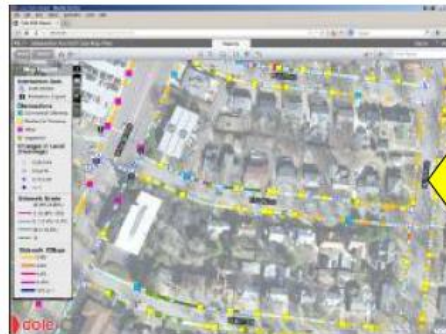
# 2022 Sidewalk Maintenance Program Update

## Customized Data Collection Devices

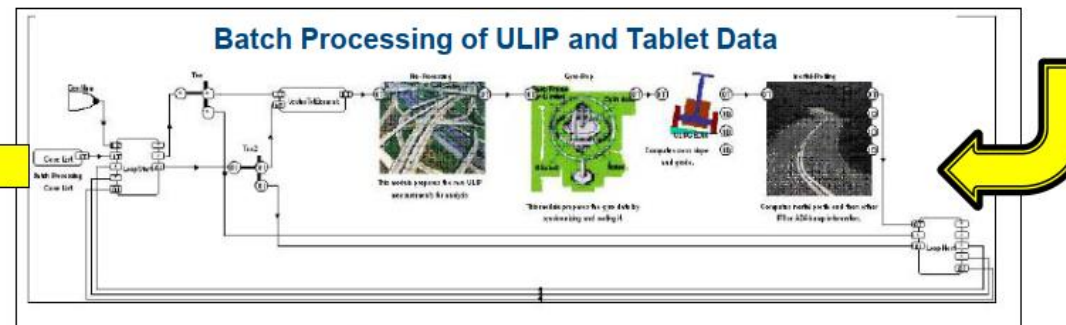


Travel Dist Ft	Marker Dist Ft	Time(s)	Grade%	slope%	yaw(deg)	Casename
0.0	0.0	0.00	0.07	-1.87	0.00	0807160948r
5.0	5.0	1.26	0.18	-1.72	-1.81	0807160948r
10.0	10.0	2.50	1.18	-2.87	-5.05	0807160948r
15.0	15.0	3.50	1.80	-2.11	-5.01	0807160948r
20.0	20.0	4.30	2.80	-1.11	-4.12	0807160948r
25.0	25.0	4.99	1.02	-0.99	-4.03	0807160948r
30.0	30.0	5.60	1.57	-0.07	-3.53	0807160948r
35.0	35.0	6.17	1.62	0.19	-1.36	0807160948r
40.0	40.0	6.71	1.72	0.64	0.14	0807160948r
45.0	45.0	7.23	2.96	1.00	0.59	0807160948r
50.0	50.0	7.76	3.94	1.41	0.57	0807160948r
55.0	55.0	8.27	4.15	1.83	0.52	0807160948r
60.0	60.0	8.77	4.55	2.14	0.46	0807160948r
65.0	65.0	9.25	5.12	2.13	0.29	0807160948r
70.0	70.0	9.72	5.70	2.15	0.44	0807160948r
75.0	75.0	10.19	5.82	2.06	0.37	0807160948r
80.0	80.0	10.65	5.72	1.48	1.38	0807160948r
85.0	85.0	11.11	5.11	0.97	1.39	0807160948r
90.0	90.0	11.56	5.34	0.19	1.79	0807160948r
95.0	95.0	12.00	4.58	0.69	2.14	0807160948r
100.0	100.0	12.44	4.74	0.75	2.40	0807160948r
105.0	105.0	12.87	5.24	0.77	2.44	0807160948r
110.0	110.0	13.30	5.19	0.21	2.42	0807160948r
115.0	115.0	13.73	4.96	-0.68	2.69	0807160948r
120.0	120.0	14.15	5.21	-1.67	3.82	0807160948r
125.0	125.0	14.57	5.22	-2.08	3.46	0807160948r
130.0	130.0	15.00	5.70	-2.20	3.36	0807160948r
135.0	135.0	15.42	6.26	-1.94	2.60	0807160948r
140.0	140.0	15.84	6.67	-1.50	1.94	0807160948r
145.0	145.0	16.26	7.25	-3.92	1.19	0807160948r
150.0	150.0	16.68	7.74	-4.36	1.13	0807160948r
155.0	155.0	17.10	7.87	-1.89	1.13	0807160948r

## Data Acquisition



## GIS Integration



## Data Processing





# 2022 Sidewalk Maintenance Program Update



**StreetScan**

Powerful Decision-Making Tools

User-Friendly Dashboard

Editing Capabilities

360° Video & Imagery Support

Web-Based

esri

**OPTIMIZE YOUR BUDGET**

**BUILD DECISION TREES**

**SOFTWARE INTEGRATION**

Streetlogix uses a RESTful API to integrate with your other asset management, accounting, or financial systems and ensures a seamless information flow between different systems.

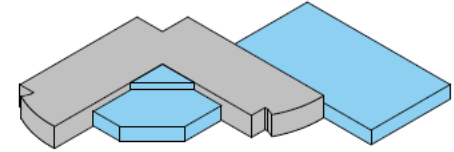
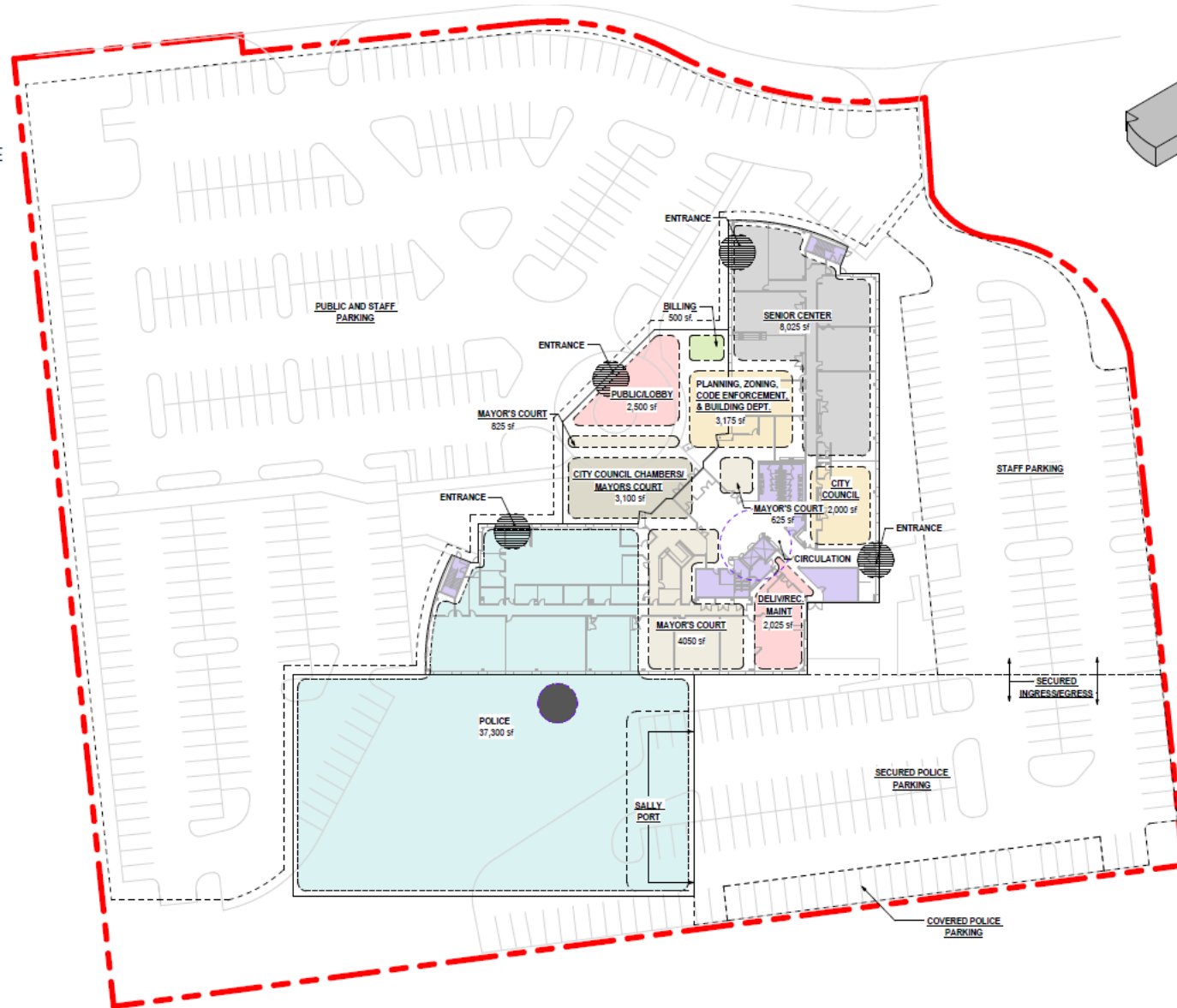
StreetScan utilizes 3D imaging technology to measure road defects, such as cracking and bumps. The 3D imaging cameras provide a 8' (2.4m) of lateral road coverage and seamless road coverage in the direction of travel at speeds up to 65 mph. A 360° camera system provides imagery of the road surface and ROW. An Inertial Measurement Unit (IMU) enabled GNSS position system provides position location, even in the event of intermittent GPS satellite coverage.

# 2022 Sidewalk Maintenance Program Update

- Staff's Recommendation
  - Pause the 2022 Program pending implementation of COLE
    - Allows the Engineering Department to assess and align program with budget and priorities
    - Target and address City responsibilities (curb Ramps)
    - Establish priorities based upon community-based criteria
    - Evaluate and adjust the program for effectiveness and sustainability
- Seeking Input from City Council on path forward for 2022 program

# OPTION 1 ADDITION AT FRONT & BACK

SITE PLAN / LEVEL ONE

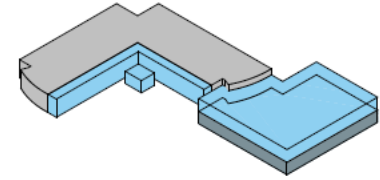
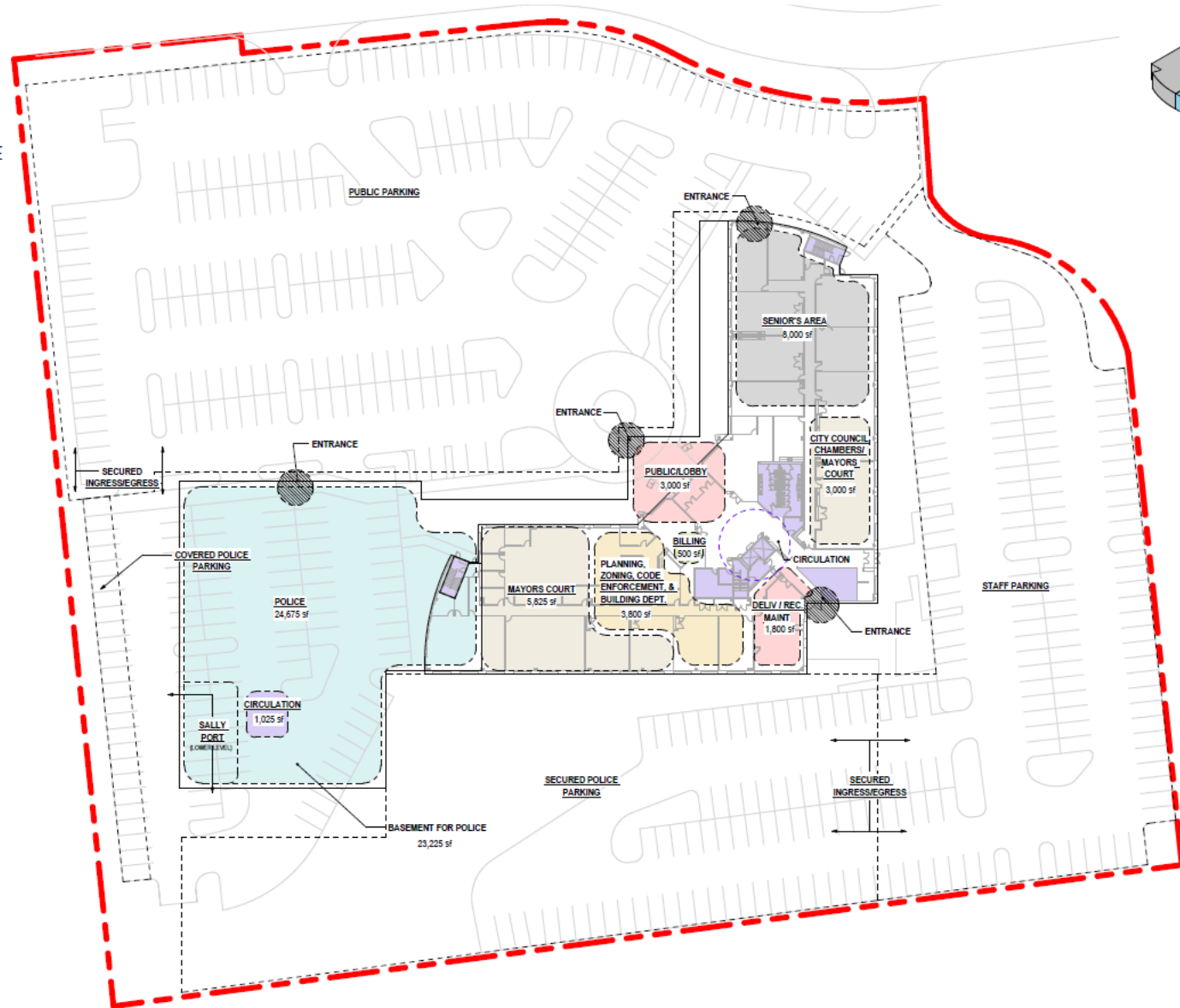


PROJECT OBJECTIVES	
INVITING & APPROACHABLE	●
CREATE A CLEAR CIVIC PRESENCE	●
COMMUNITY & SERVICE FOCUSED	●
DEVELOP INTUITIVE & CLEAR CIRCULATION	○
EFFICIENT IN PLANNING	○
ALLOW FOR FUTURE EXPANSION	●
SAFE & SECURE	●
MEETS ADDITION / RENOVATION SF GOALS	○
MEETS PROGRAM GOALS	●
BUILDING REBRANDING / UNIQUE IDENTITY	●
DAYLIGHTING	○

SQUARE FOOTAGE	
POLICE EXISTING:	17,425 SF
POLICE ADDITION:	56,250 SF
CIVIC EXISTING:	54,875 SF
CIVIC ADDITION:	8,800 SF
UNASSIGNED:	20,775 SF
<b>TOTAL:</b>	<b>158,125 SF</b>

# OPTION 5 HUB & SPOKE

SITE PLAN / LEVEL ONE

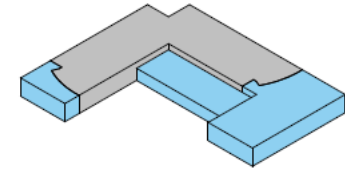
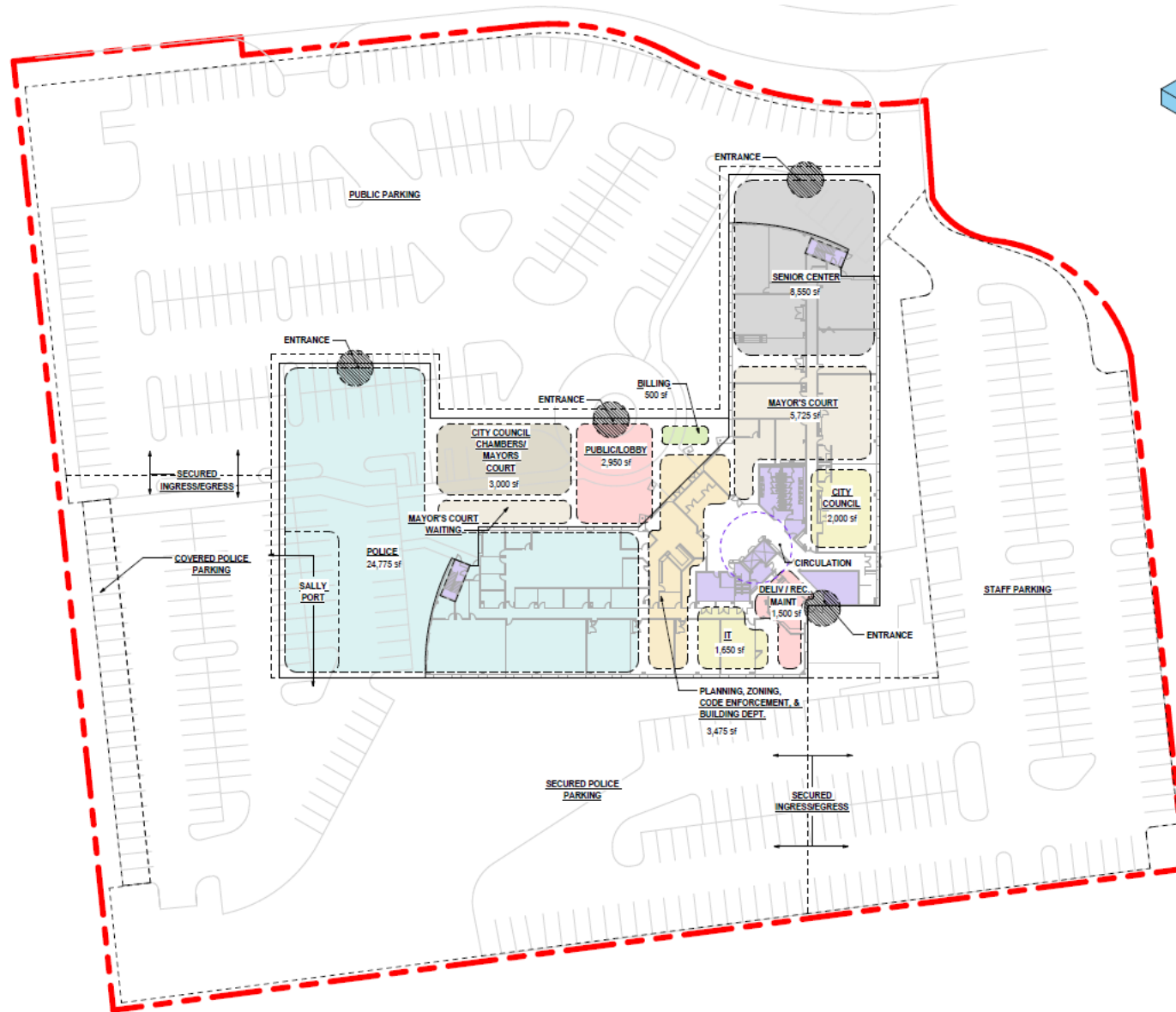


PROJECT OBJECTIVES	
INVITING & APPROACHABLE	●
CREATE A CLEAR CIVIC PRESENCE	●
COMMUNITY & SERVICE FOCUSED	●
DEVELOP INTUATIVE & CLEAR CIRCULATION	●
EFFICIENT IN PLANNING	●
ALLOW FOR FUTURE EXPANSION	●
SAFE & SECURE	●
MEETS ADDITION / RENOVATION SF GOALS	●
MEETS PROGRAM GOALS	●
BUILDING REBRANDING / UNIQUE IDENTITY	●
DAYLIGHTING	●

SQUARE FOOTAGE	
POLICE EXISTING:	4,350 SF
POLICE ADDITION:	69,675 SF
CIVIC EXISTING:	35,625 SF
CIVIC ADDITION:	23,125 SF
UNASSIGNED:	24,825 SF
<b>TOTAL:</b>	<b>157,600 SF</b>

# OPTION 6 BUILDING EXTENSIONS

SITE PLAN / LEVEL ONE



PROJECT OBJECTIVES	
INVITING & APPROACHABLE	●
CREATE A CLEAR CIVIC PRESENCE	●
COMMUNITY & SERVICE FOCUSED	●
DEVELOP INTUATIVE & CLEAR CIRCULATION	●
EFFICIENT IN PLANNING	●
ALLOW FOR FUTURE EXPANSION	●
SAFE & SECURE	●
MEETS ADDITION / RENOVATION SF GOALS	○
MEETS PROGRAM GOALS	●
BUILDING REBRANDING / UNIQUE IDENTITY	●
DAYLIGHTING	●

SQUARE FOOTAGE	
POLICE EXISTING:	27,750 SF
POLICE ADDITION:	46,575 SF
CIVIC EXISTING:	46,900 SF
CIVIC ADDITION:	17,350 SF
UNASSIGNED:	25,000 SF
<b>TOTAL:</b>	<b>163,575 SF</b>