



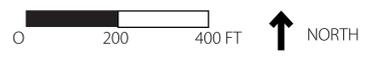
# SOUTH LOOP FIRE STATION & PARK STUDY VIRTUAL MEETING

MARCH 16, 2016



SOUTH LOOP FIRE STATION & PARK STUDY

SITE CONTEXT



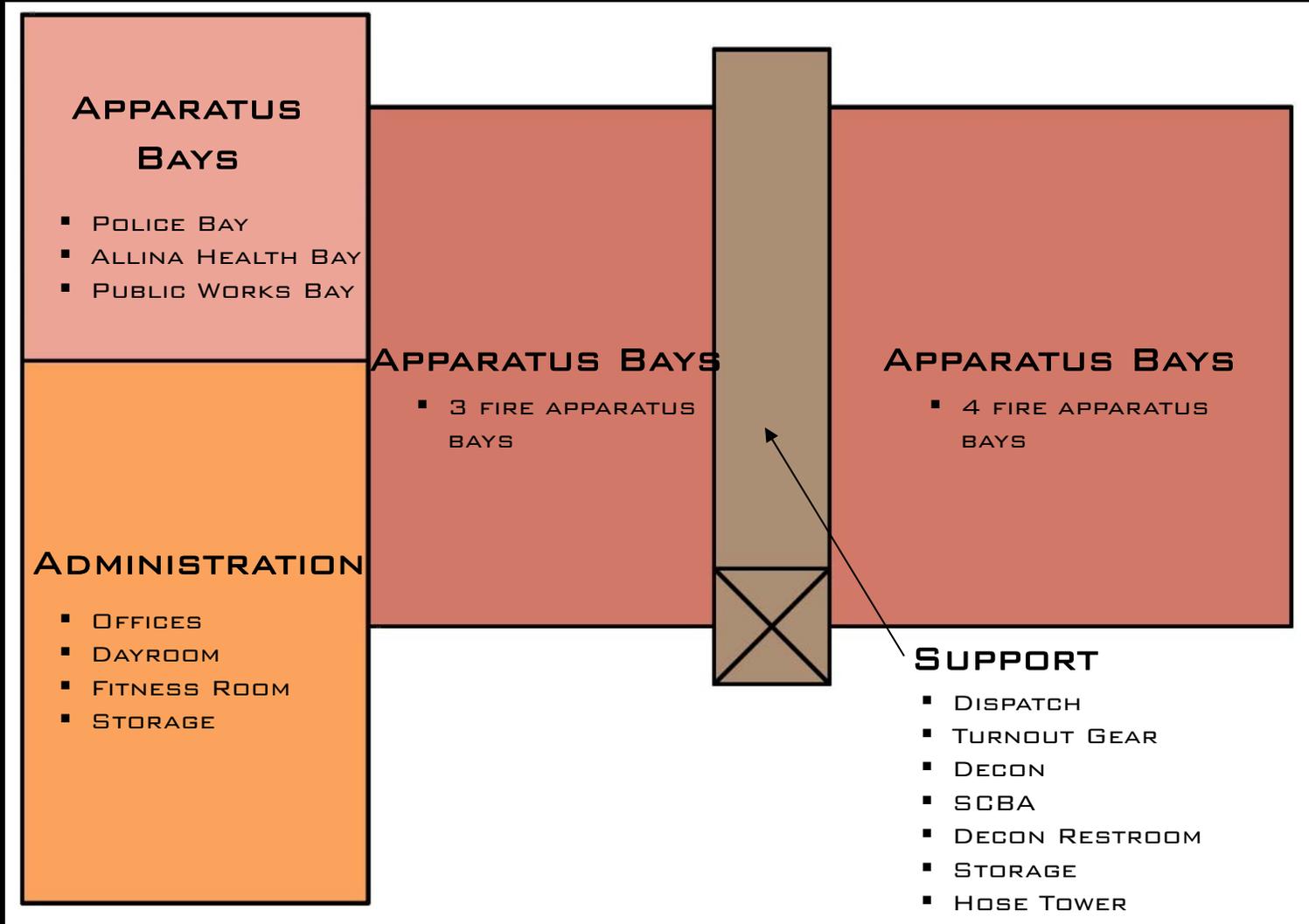
**SOUTH LOOP FIRE STATION & PARK STUDY**  
**CITY OF BLOOMINGTON** DECEMBER 17, 2015





# PROGRAMMING

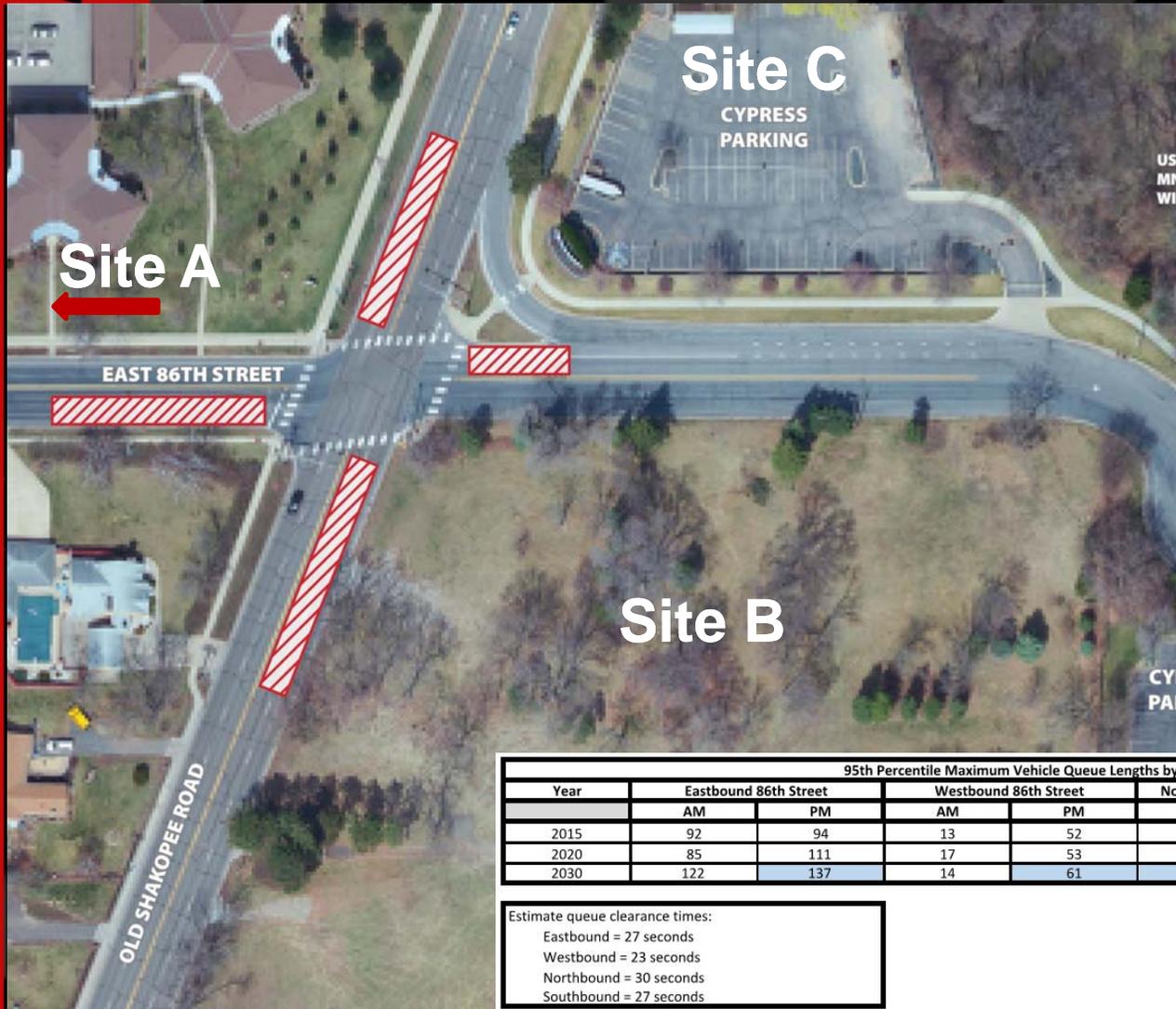
## BUILDING PROGRAMMING





# INTERSECTION TRAFFIC ANALYSIS

## 86<sup>TH</sup> STREET/OLD SHAKOPEE



- TRAFFIC ANALYSIS**
- FIREFIGHTERS RESPONDING TO STATION (EASTBOUND & NORTHBOUND MOST COMMON)
  - SITE A AND SITE B LESS TIME FOR FIREFIGHTERS, SITE C INCREASED TIME
  - QUEUEING LENGTHS – AVOID BLOCKING STATION ENTRANCE & EXIT
  - FUTURE MEDIAN ON OLD SHAKOPEE ROAD
  - APPARATUS RESPONSE TIME FOR CLEARING INTERSECTION
  - SAFETY OF ENTERING TRAFFIC

95th Percentile Maximum Vehicle Queue Lengths by Approach (in feet)

Year	Eastbound 86th Street		Westbound 86th Street		Northbound Old Shakopee Road		Southbound Old Shakopee Road	
	AM	PM	AM	PM	AM	PM	AM	PM
2015	92	94	13	52	97	58	68	101
2020	85	111	17	53	110	72	65	119
2030	122	137	14	61	152	54	60	106

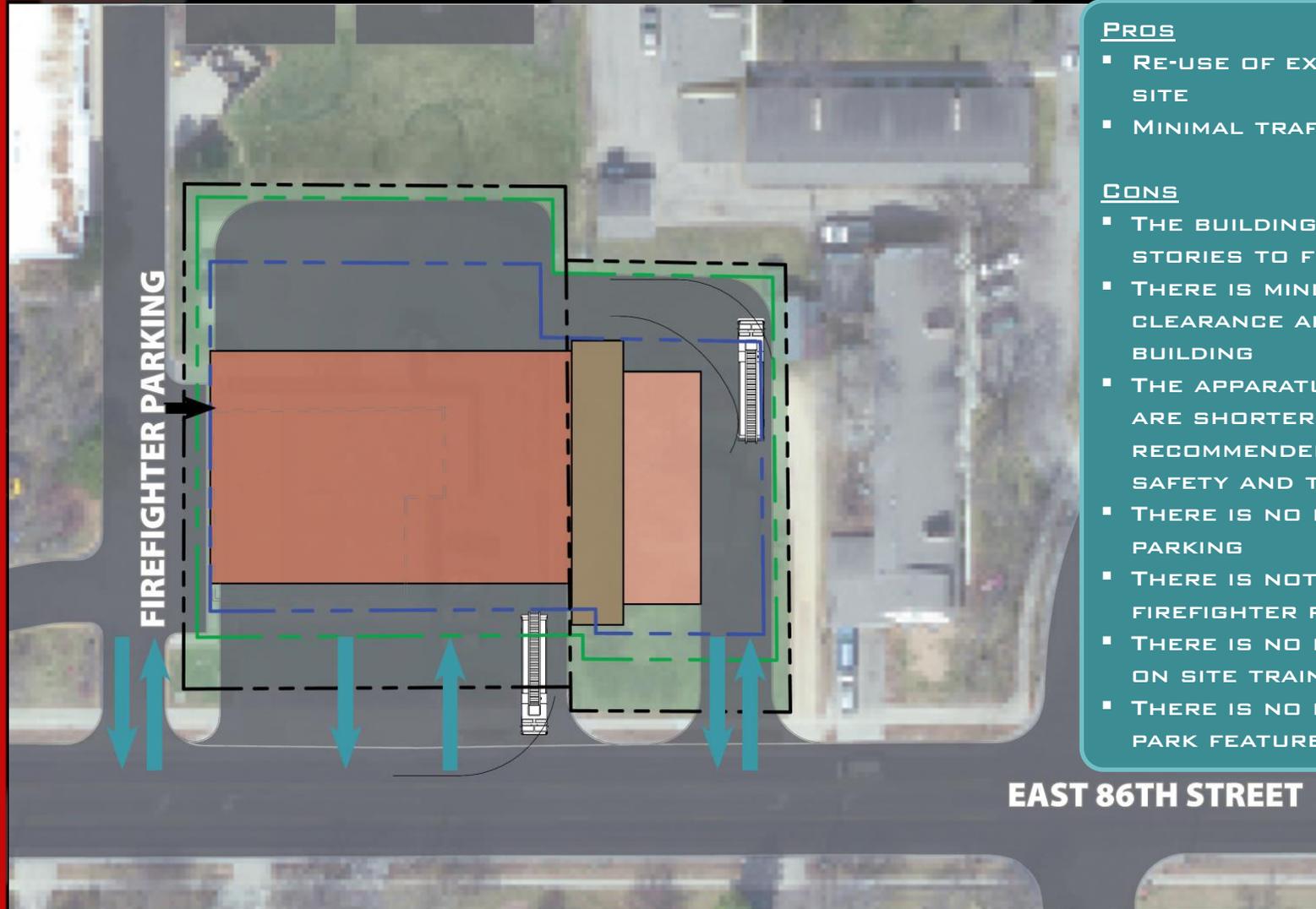
Estimate queue clearance times:  
 Eastbound = 27 seconds  
 Westbound = 23 seconds  
 Northbound = 30 seconds  
 Southbound = 27 seconds





# SITE A – 86<sup>TH</sup> STREET

## SITE LAYOUT



### PROS

- RE-USE OF EXISTING SITE
- MINIMAL TRAFFIC ISSUES

### CONS

- THE BUILDING IS THREE STORIES TO FIT ON SITE
- THERE IS MINIMAL CLEARANCE AROUND THE BUILDING
- THE APPARATUS APRONS ARE SHORTER THAN RECOMMENDED FOR SAFETY AND TURNING
- THERE IS NO PUBLIC PARKING
- THERE IS NOT ENOUGH FIREFIGHTER PARKING
- THERE IS NO ROOM FOR ON SITE TRAINING
- THERE IS NO ROOM FOR PARK FEATURES





# SITE B - 86<sup>TH</sup> & OLD SHAKOPEE

## SITE LAYOUT - OPTION 1



### PROS

- APPROPRIATE APPARATUS APRON LENGTHS
- ACCESS FOR APPARATUS /FIREFIGHTERS FROM BOTH 86<sup>TH</sup> & OLD SHAKOPEE ROAD
- ALLOWS TRAINING ON SITE
- ADEQUATE PARKING FOR PUBLIC AND FIREFIGHTERS
- ALLOWS ROOM FOR PARK FEATURES
- NO ISSUES WITH QUEUE LENGTHS OR CLEARANCES
- QUICKER ARRIVAL TIME FOR FIREFIGHTERS

### CONS

- THE ADMIN/SUPPORT APPARATUS PARTIALLY OBSCURES THE APPARATUS BAYS.
- RIGHT IN/RIGHT OUT ONLY FOR PUBLIC PARKING





# SITE B - 86<sup>TH</sup> & OLD SHAKOPEE

## SITE LAYOUT - OPTION 2



### PROS

- APPROPRIATE APPARATUS APRON LENGTHS
- ACCESS FOR APPARATUS /FIREFIGHTERS FROM BOTH 86<sup>TH</sup> & OLD SHAKOPEE ROAD
- ALLOWS TRAINING ON SITE
- ADEQUATE PARKING FOR PUBLIC AND FIREFIGHTERS
- ALLOWS ROOM FOR PARK FEATURES
- NO ISSUES WITH QUEUE LENGTHS OR CLEARANCES
- FULL VIEW OF APPARATUS BAYS FROM OLD SHAKOPEE ROAD
- QUICKER ARRIVAL TIME FOR FIREFIGHTERS

### CONS

- WEAKER PATH CONNECTION TO REFUGE
- PUBLIC PARKING FURTHER FROM PARK AREA AND LESS VISIBLE TO OLD SHAKOPEE ROAD





# SITE B - 86<sup>TH</sup> & OLD SHAKOPEE

## SITE LAYOUT - OPTION 3



### PROS

- APPROPRIATE APPARATUS APRON LENGTHS
- ACCESS FOR APPARATUS /FIREFIGHTERS FROM BOTH 86<sup>TH</sup> & OLD SHAKOPEE ROAD
- ALLOWS TRAINING ON SITE
- ADEQUATE PARKING FOR PUBLIC AND FIREFIGHTERS
- ALLOWS ROOM FOR PARK FEATURES ALONG OSR
- NO ISSUES WITH QUEUE LENGTHS OR CLEARANCES
- QUICKER ARRIVAL TIME FOR FIREFIGHTERS

### CONS

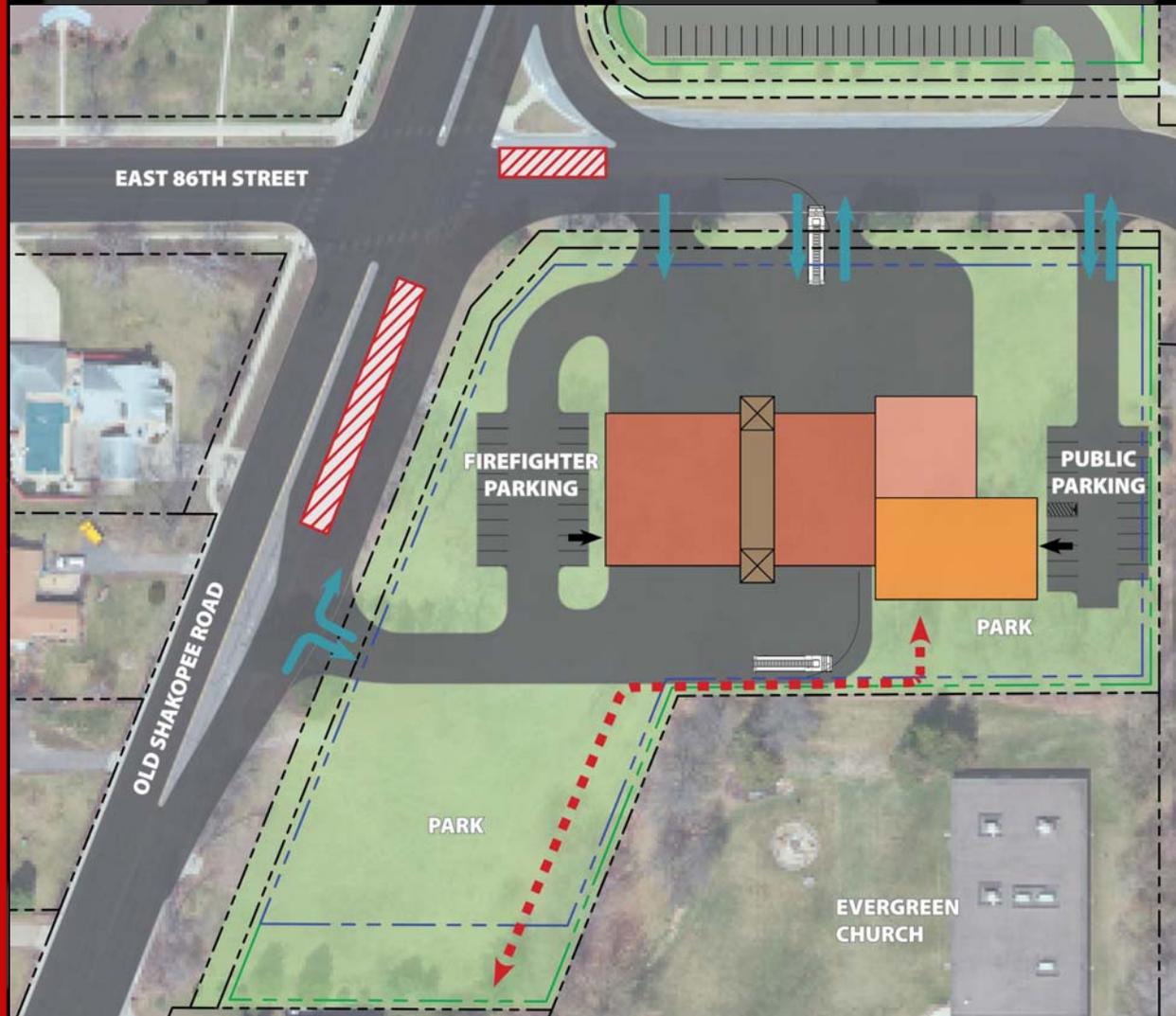
- THE ADMIN/SUPPORT APPARATUS PARTIALLY OBSCURES THE APPARATUS BAYS
- RIGHT IN/RIGHT OUT ONLY FOR PUBLIC PARKING





# SITE B - 86<sup>TH</sup> & OLD SHAKOPEE

## SITE LAYOUT - OPTION 4



### PROS

- APPROPRIATE APPARATUS APRON LENGTHS
- ACCESS FOR APPARATUS /FIREFIGHTERS FROM BOTH 86<sup>TH</sup> & OLD SHAKOPEE ROAD
- ALLOWS TRAINING ON SITE
- ADEQUATE PARKING FOR PUBLIC AND FIREFIGHTERS
- NO ISSUES WITH QUEUE LENGTHS OR CLEARANCES
- FULL VIEW OF APPARATUS BAYS FROM OLD SHAKOPEE ROAD
- QUICKER ARRIVAL TIME FOR FIREFIGHTERS

### CONS

- RIGHT IN/RIGHT OUT ONLY FOR PUBLIC PARKING
- WEAKER PATH CONNECTION TO REFUGE
- PUBLIC PARKING FURTHER FROM PARK AREA AND LESS VISIBLE TO OLD SHAKOPEE ROAD





# SITE B - 86<sup>TH</sup> & OLD SHAKOPEE

## SITE LAYOUT - OPTION 5



### PROS

- APPROPRIATE APPARATUS APRON LENGTHS
- ACCESS FOR APPARATUS/FIREFIGHTERS FROM BOTH 86<sup>TH</sup> & OLD SHAKOPEE ROAD
- ALLOWS TRAINING ON SITE
- ADEQUATE PARKING FOR PUBLIC & FIREFIGHTERS
- ALLOWS ROOM FOR PARK FEATURES NEAR TO REFUGE ENTRANCE
- APPARATUS BAYS VISIBLE TO STREET
- QUICKER ARRIVAL TIME FOR FIREFIGHTERS

### CONS

- APPARATUS EXIT OVERLAPS QUEUE ON OLD SHAKOPEE ROAD
- RIGHT IN/RIGHT OUT ONLY FOR PUBLIC PARKING
- PUBLIC PARKING DOESN'T SERVE PARK





# SITE C - 86<sup>TH</sup> & OLD SHAKOPEE

## SITE LAYOUT - OPTION 1



### PROS

- APPARATUS BAYS VISIBLE TO STREET
- PARK CONNECTION ALONG BLUFF EDGE
- ADEQUATE PARKING FOR PUBLIC AND FIREFIGHTERS

### CONS

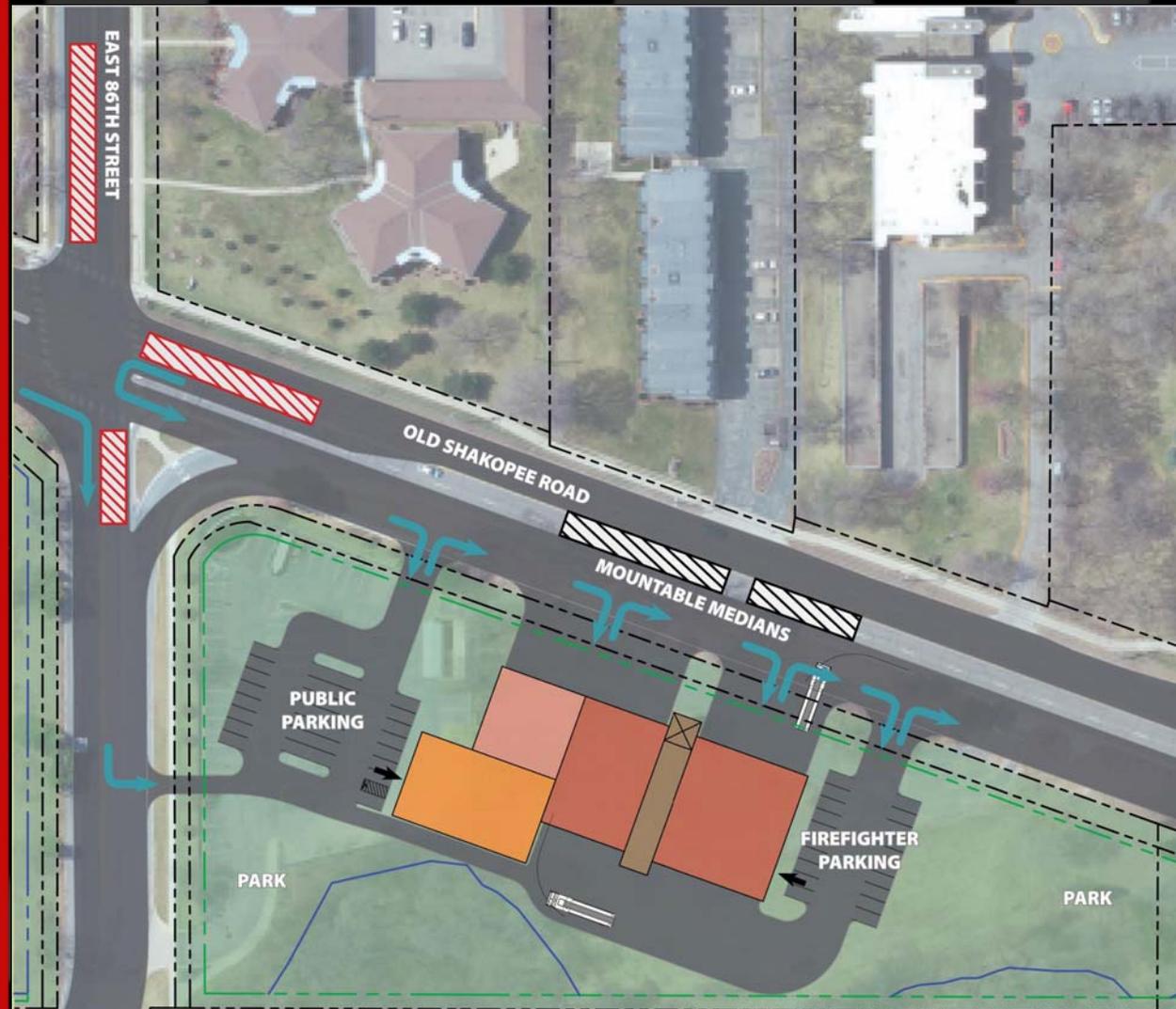
- SIGNIFICANT FILL AND RETAINING WALL REQUIRED ALONG BLUFF
- THE APPARATUS APRONS ARE SHORTER THAN RECOMMENDED
- APPARATUS ACCESS ONTO SOUTHBOUND OLD SHAKOPEE REQUIRES MOUNTABLE MEDIUM
- FIREFIGHTER RESPONSE ARRIVAL TIMES ARE LONGER
- RIGHT IN/RIGHT OUT ONLY FOR FIREFIGHTER /PUBLIC PARKING
- APPARATUS APRON WIDTH LESS SAFE





# SITE C - 86<sup>TH</sup> & OLD SHAKOPEE

## SITE LAYOUT - OPTION 2



### PROS

- APPARATUS BAYS VISIBLE TO STREET
- PARK CONNECTION ALONG BLUFF EDGE
- ADEQUATE PARKING FOR PUBLIC AND FIREFIGHTERS

### CONS

- SIGNIFICANT FILL AND RETAINING WALL REQUIRED ALONG BLUFF
- THE APPARATUS APRONS ARE SHORTER THAN RECOMMENDED
- APPARATUS ACCESS ONTO SOUTHBOUND OLD SHAKOPEE REQUIRES MOUNTABLE MEDIAN
- FIREFIGHTER RESPONSE ARRIVAL TIMES ARE LONGER
- RIGHT IN/RIGHT OUT ONLY FOR FIREFIGHTER /PUBLIC PARKING
- APPARATUS APRON WIDTH LESS SAFE



# PARK EXAMPLE IMAGES



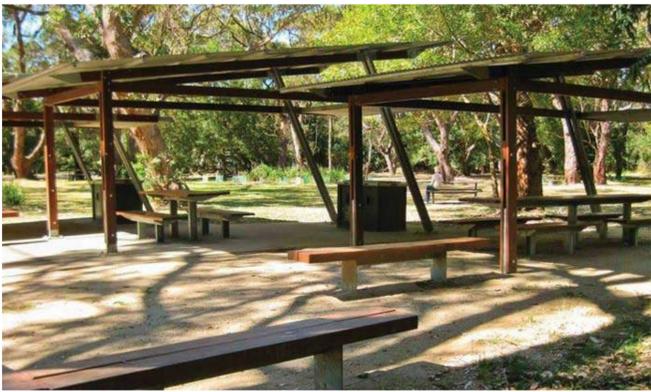
*Art : in landscape*



*Art : as gateway*



*Art : infrastructure*



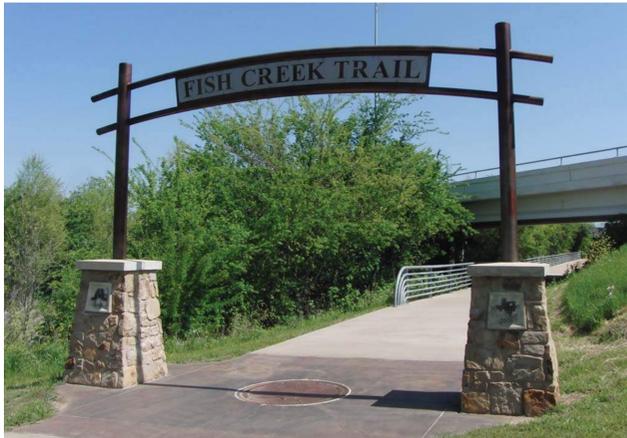
*Shelter : minimal*



*Shelter : enclosed*



*Shelter : with facilities*



*Gateway : trail*



*Gateway : as place*



*Gateway/Trail Head : picnic facility*



*Play : natural*



*Play : structured*



*Play : high energy*

# PARK EXAMPLE IMAGES



*Dog Park: casual*



*Dog Park: agility*



*Dog Park: artificial grass*



*Open space use: picnic*



*Open space use: flexible*



*Open space use: staged*



*Circulation - trail*



*Circulation - promenade*



*Circulation - plaza*



*Ravine : over look*



*Ravine : stair access*



*Ravine : bridge*

# PARK EXAMPLE IMAGES



*Old Shakopee Rd -  
Pedestrian crossing*



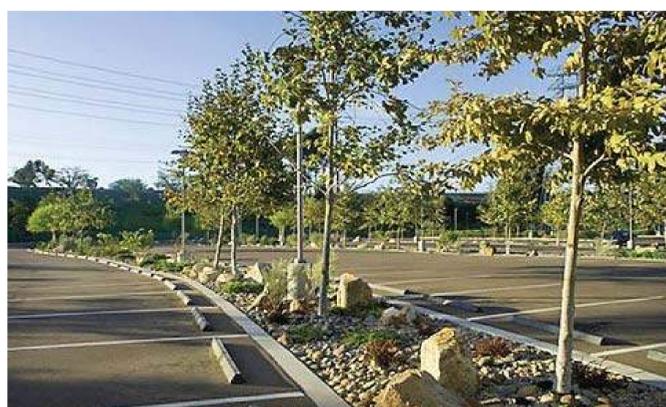
*Pedestrian & bike safe  
connections*



*Old Shakopee Road -  
proposed section*



*Stormwater - structured*



*Stormwater - parking lot*



*Stormwater - linear*



*Naturalist*



*Pastoral*



*Urban*



*Community garden*



*Bicycle facilities*



*Interactive features*