

CITYGATE ASSOCIATES, LLC

■ FOLSOM (SACRAMENTO), CA

MANAGEMENT CONSULTANTS ■

■ ■

FIRE SERVICE STANDARDS OF RESPONSE COVERAGE DEPLOYMENT STUDY FOR THE CITY OF SAN DIEGO FIRE- RESCUE DEPARTMENT

VOLUME 2 OF 2 – MAP ATLAS

February 14, 2011

■ ■

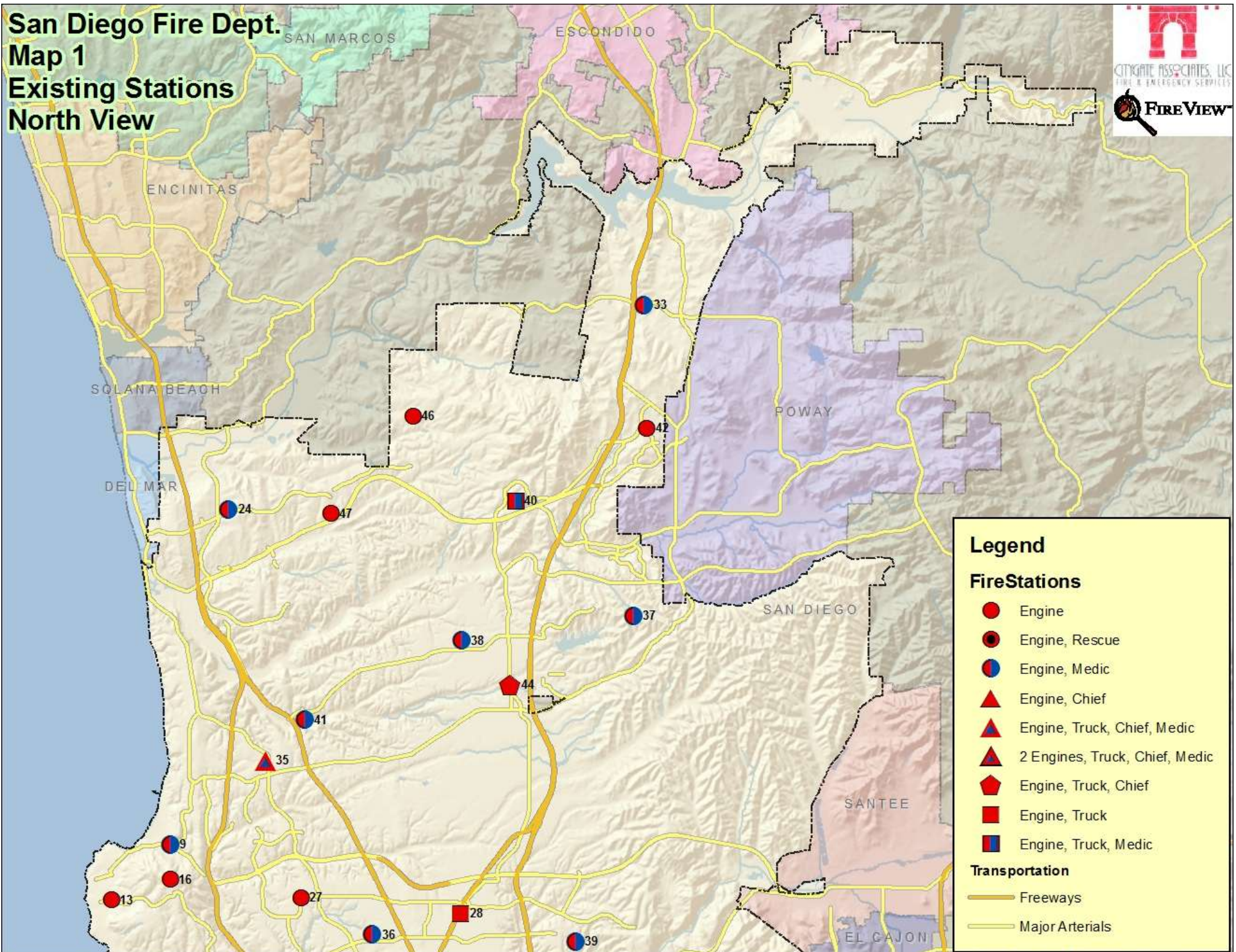


■ 2250 East Bidwell St., Ste #100 ■ Folsom, CA 95630
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CITYGATE ASSOCIATES, LLC
FIRE & EMERGENCY SERVICES

San Diego Fire Dept. Map 1 Existing Stations North View



Legend

Fire Stations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways
- Major Arterials

San Diego Fire Dept. Map 1 Existing Stations South View



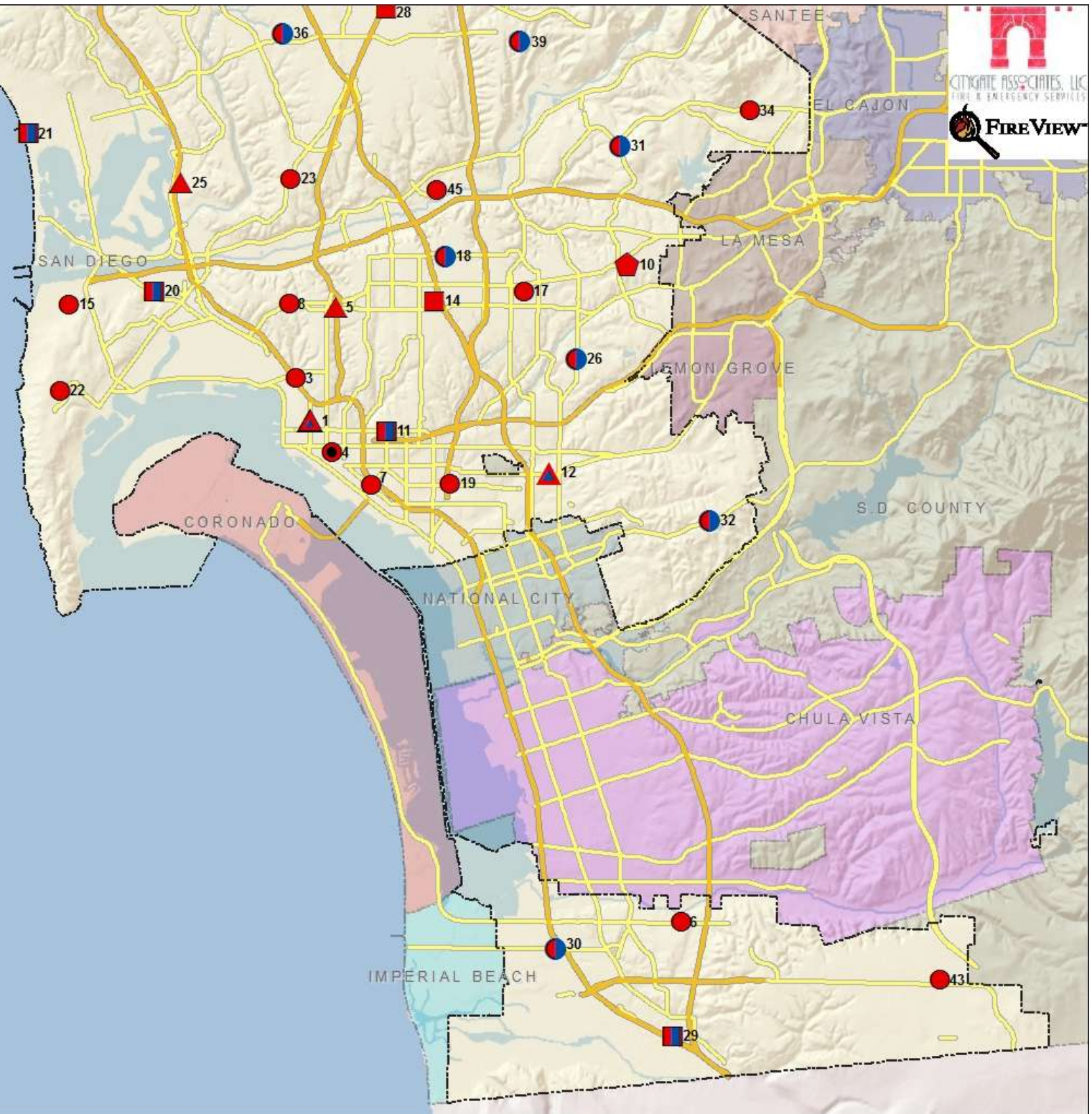
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Fire Stations

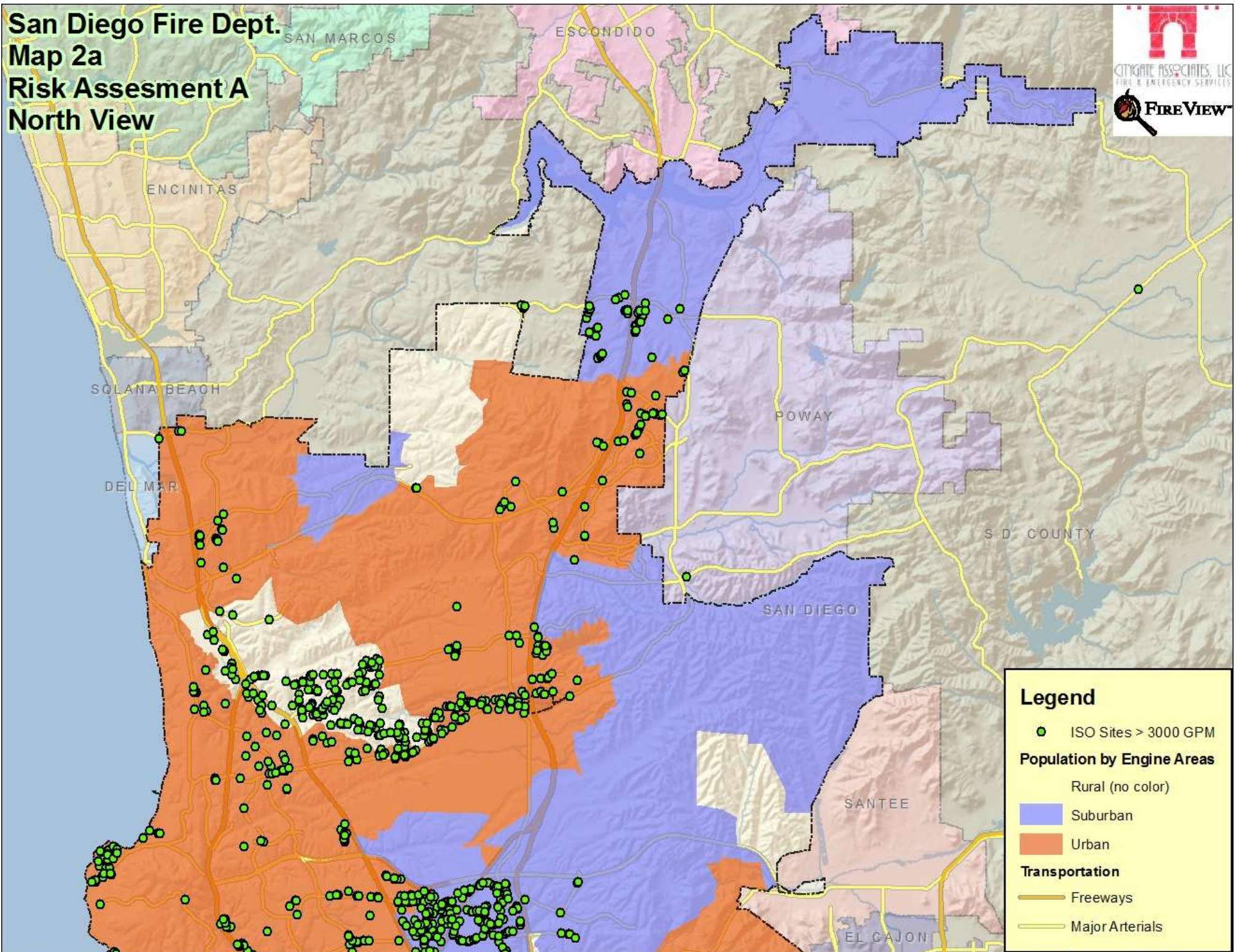
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways
- Major Arterials



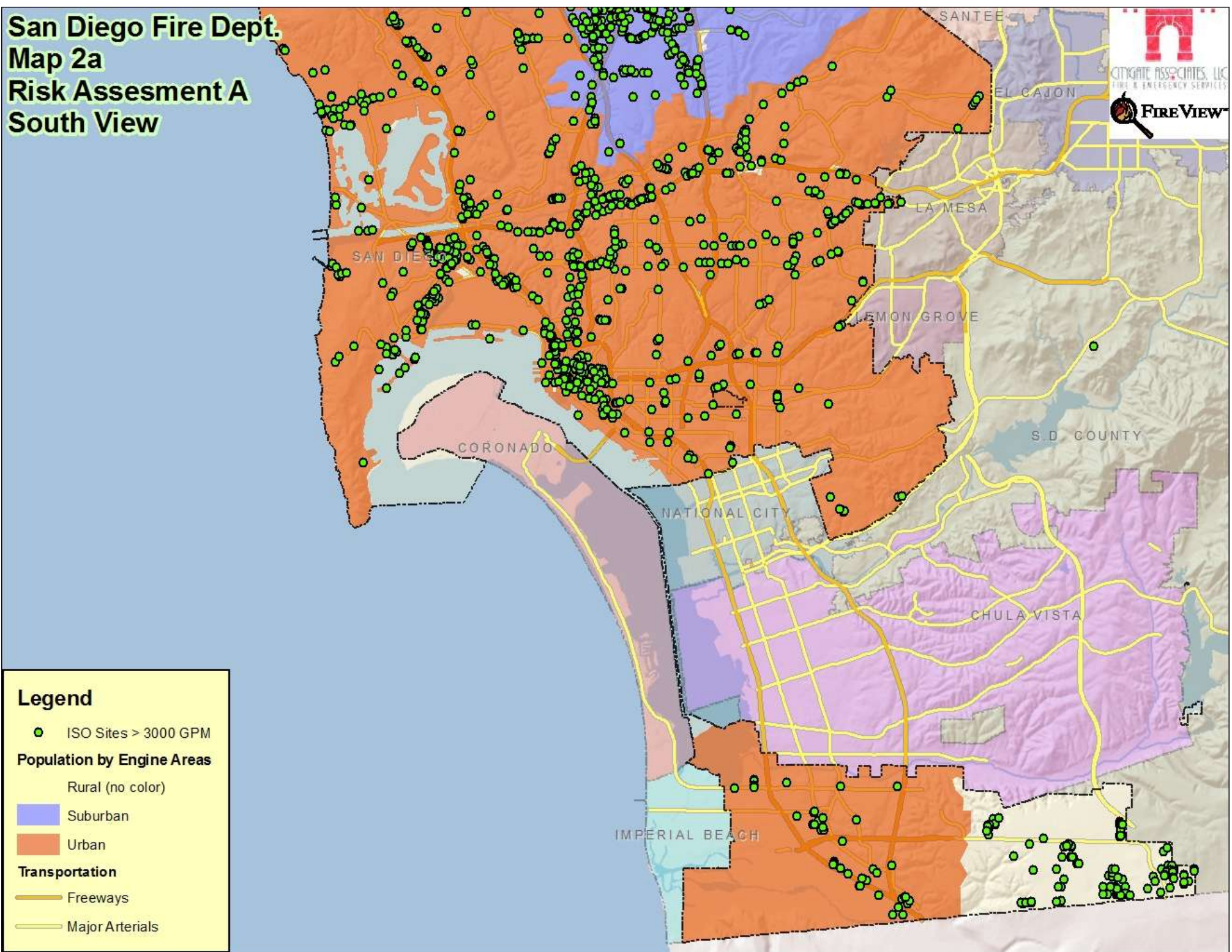
San Diego Fire Dept. Map 2a Risk Assessment A North View



Legend

- ISO Sites > 3000 GPM
- Population by Engine Areas**
 - Rural (no color)
 - Suburban
 - Urban
- Transportation**
 - Freeways
 - Major Arterials

San Diego Fire Dept. Map 2a Risk Assessment A South View



Legend

- ISO Sites > 3000 GPM

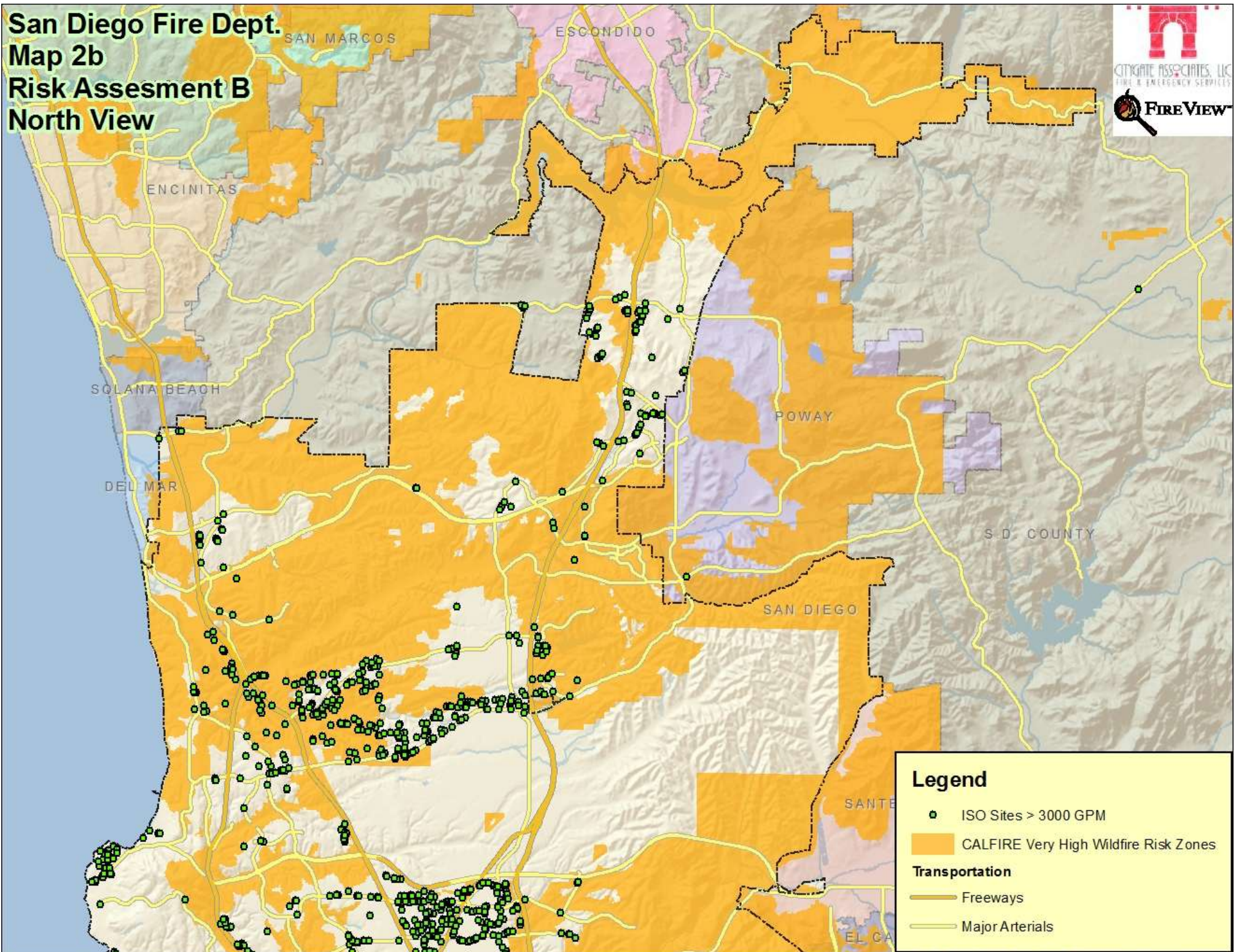
Population by Engine Areas

- Rural (no color)
- Suburban
- Urban

Transportation

- Freeways
- Major Arterials

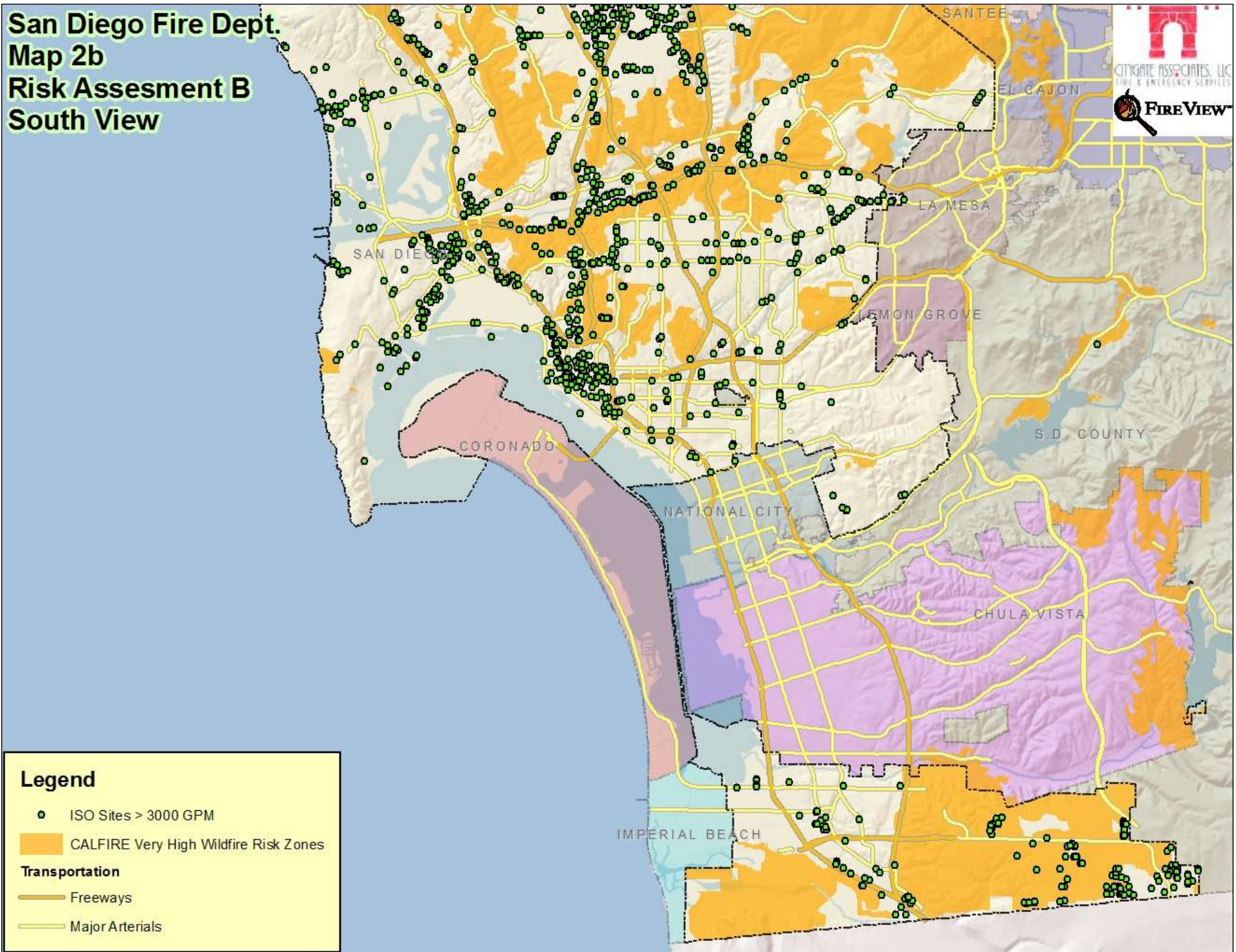
**San Diego Fire Dept.
Map 2b
Risk Assessment B
North View**



Legend

- ISO Sites > 3000 GPM
- CALFIRE Very High Wildfire Risk Zones
- Transportation**
- Freeways
- Major Arterials

San Diego Fire Dept. Map 2b Risk Assessment B South View



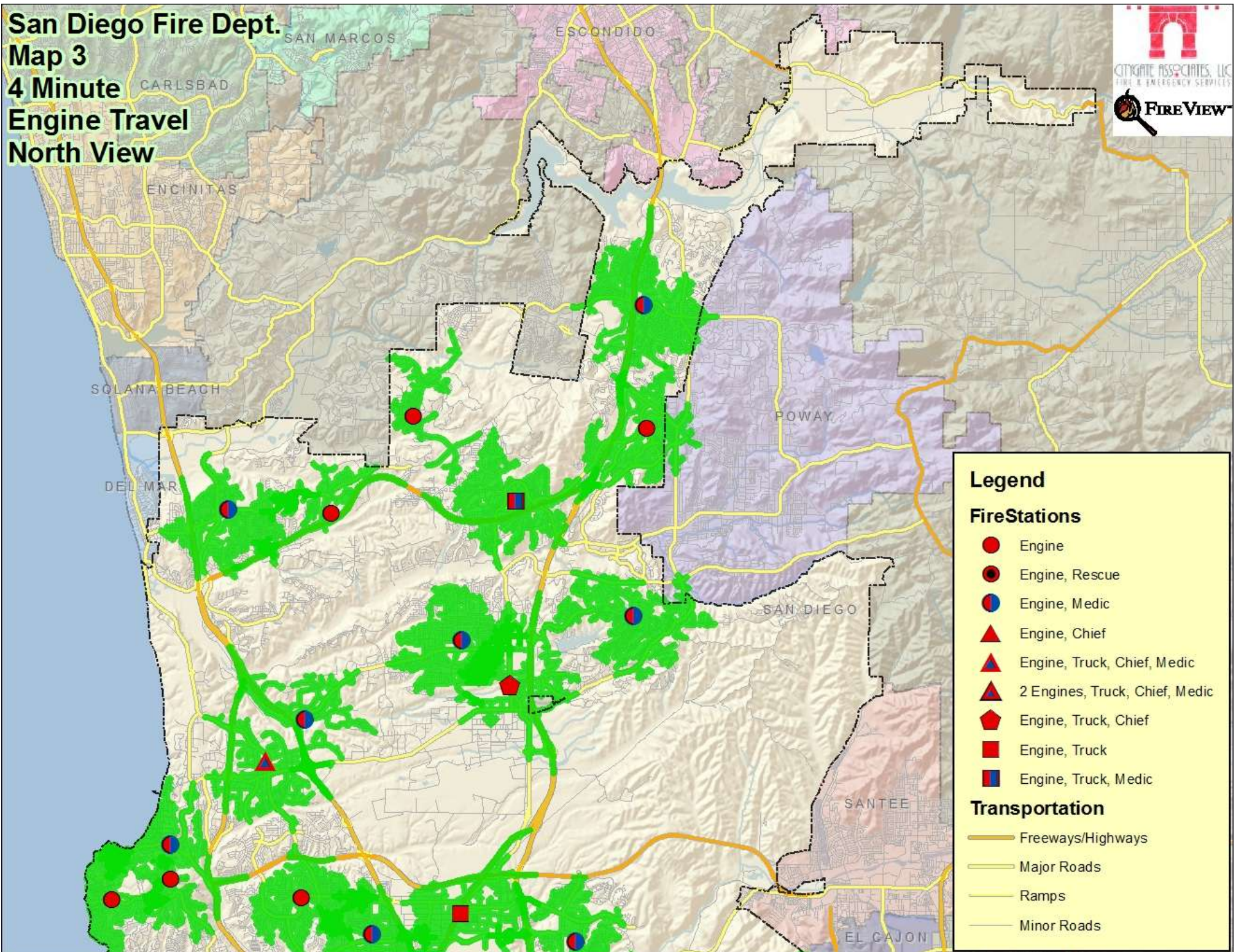
Legend

- ISO Sites > 3000 GPM
- CALFIRE Very High Wildfire Risk Zones

Transportation

- Freeways
- Major Arterials

San Diego Fire Dept. Map 3 4 Minute Engine Travel North View



San Diego Fire Dept. Map 3 4 Minute Engine Travel South View



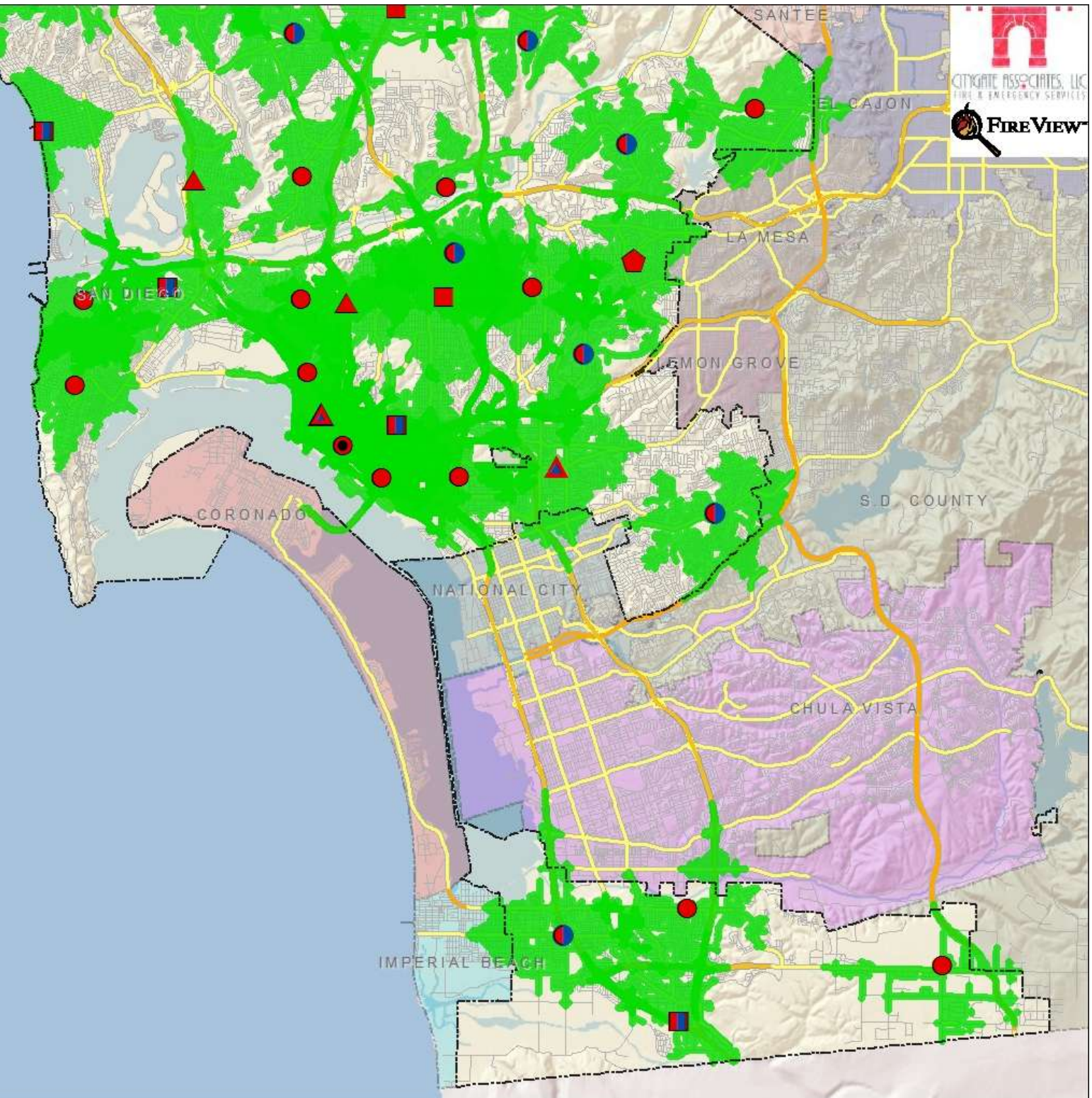
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FireStations

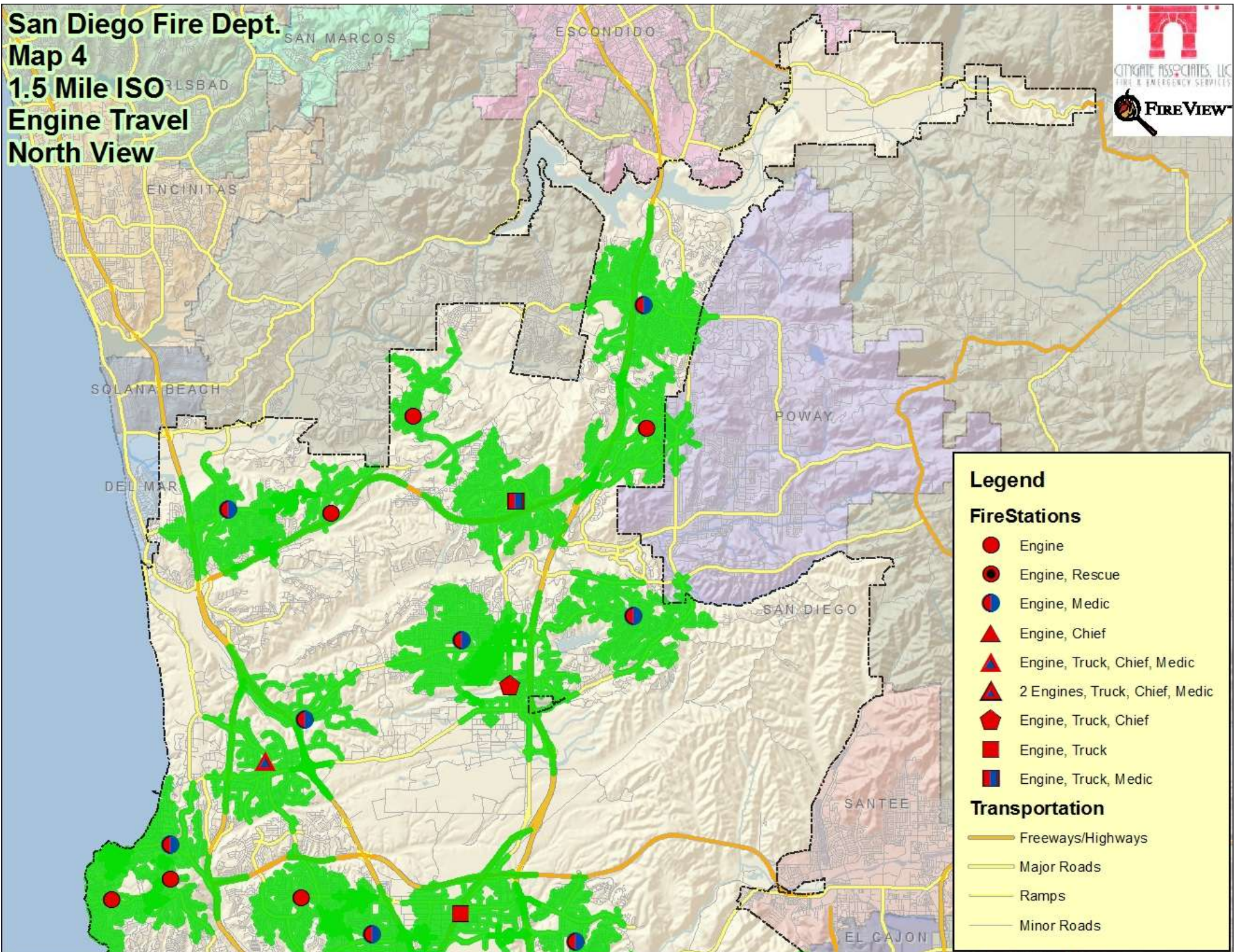
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



San Diego Fire Dept.
Map 4
1.5 Mile ISO
Engine Travel
North View



Legend

FireStations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads

**San Diego Fire Dept.
Map 4
1.5 Mile ISO
Engine Travel
South View**



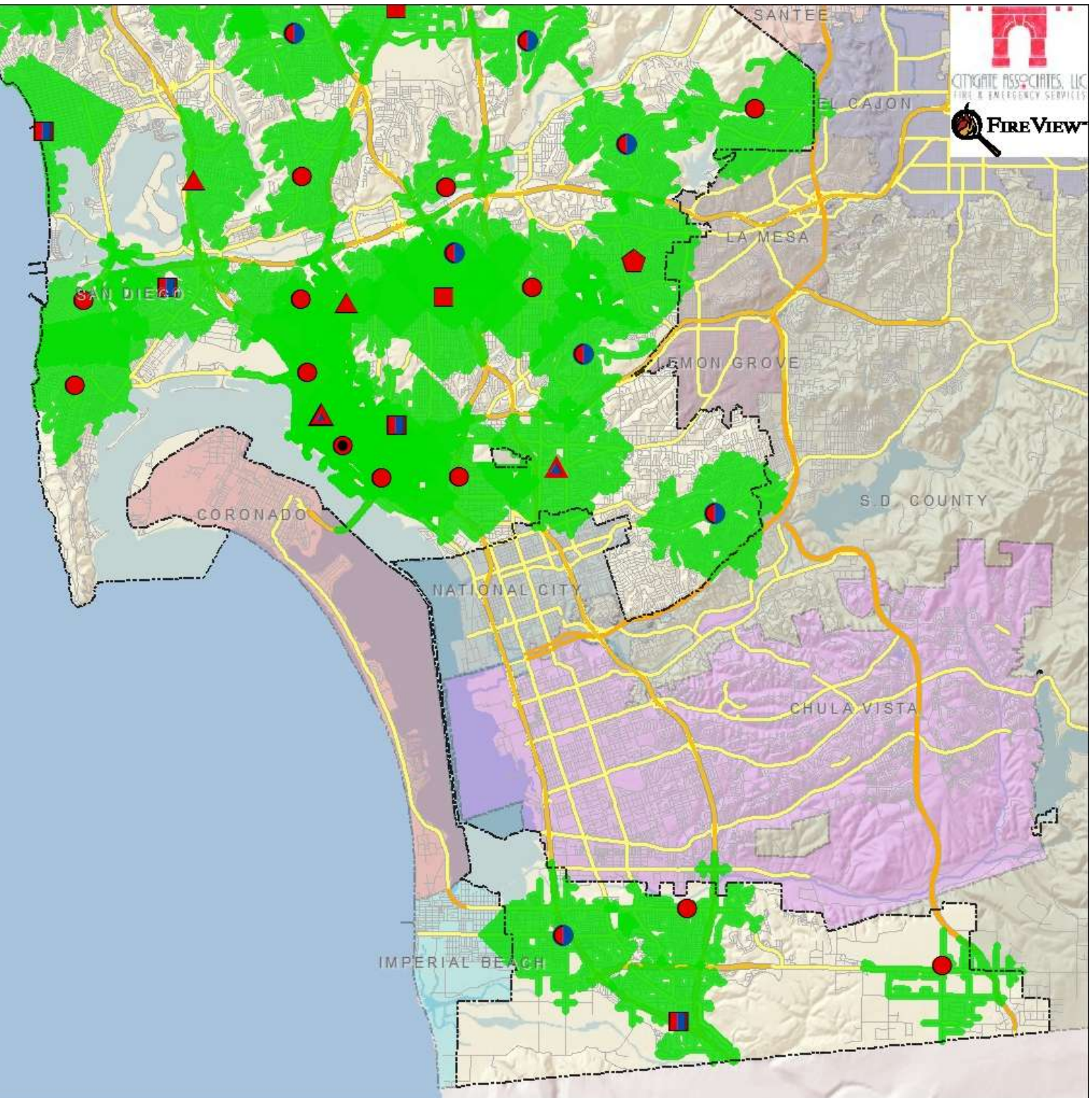
Legend

FireStations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



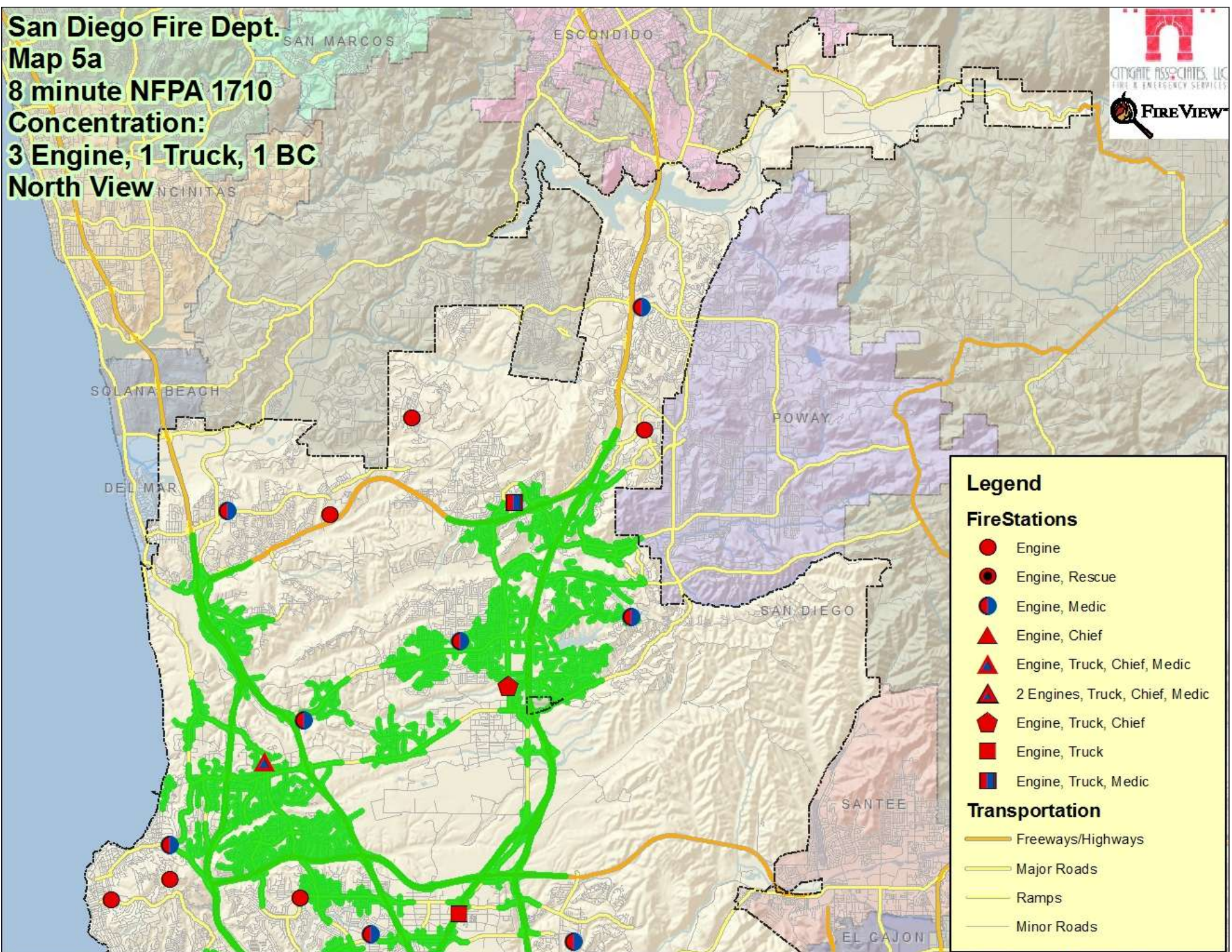
San Diego Fire Dept. Map 5a

8 minute NFPA 1710

Concentration:

3 Engine, 1 Truck, 1 BC

North View



**San Diego Fire Dept.
Map 5a
8 minute NFPA 1710
Concentration:
3 Engine, 1 Truck, 1 BC
South View**



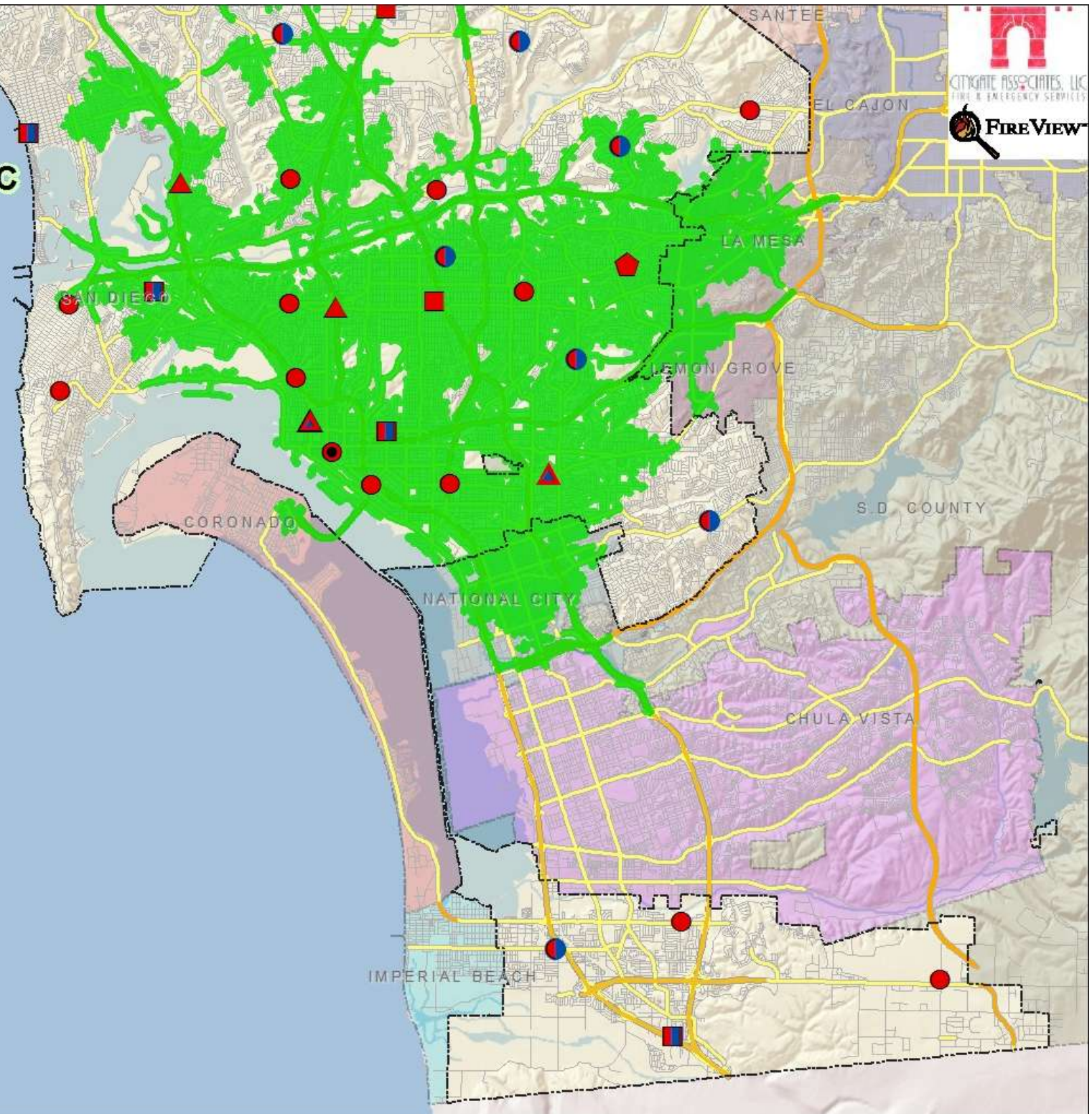
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FireStations

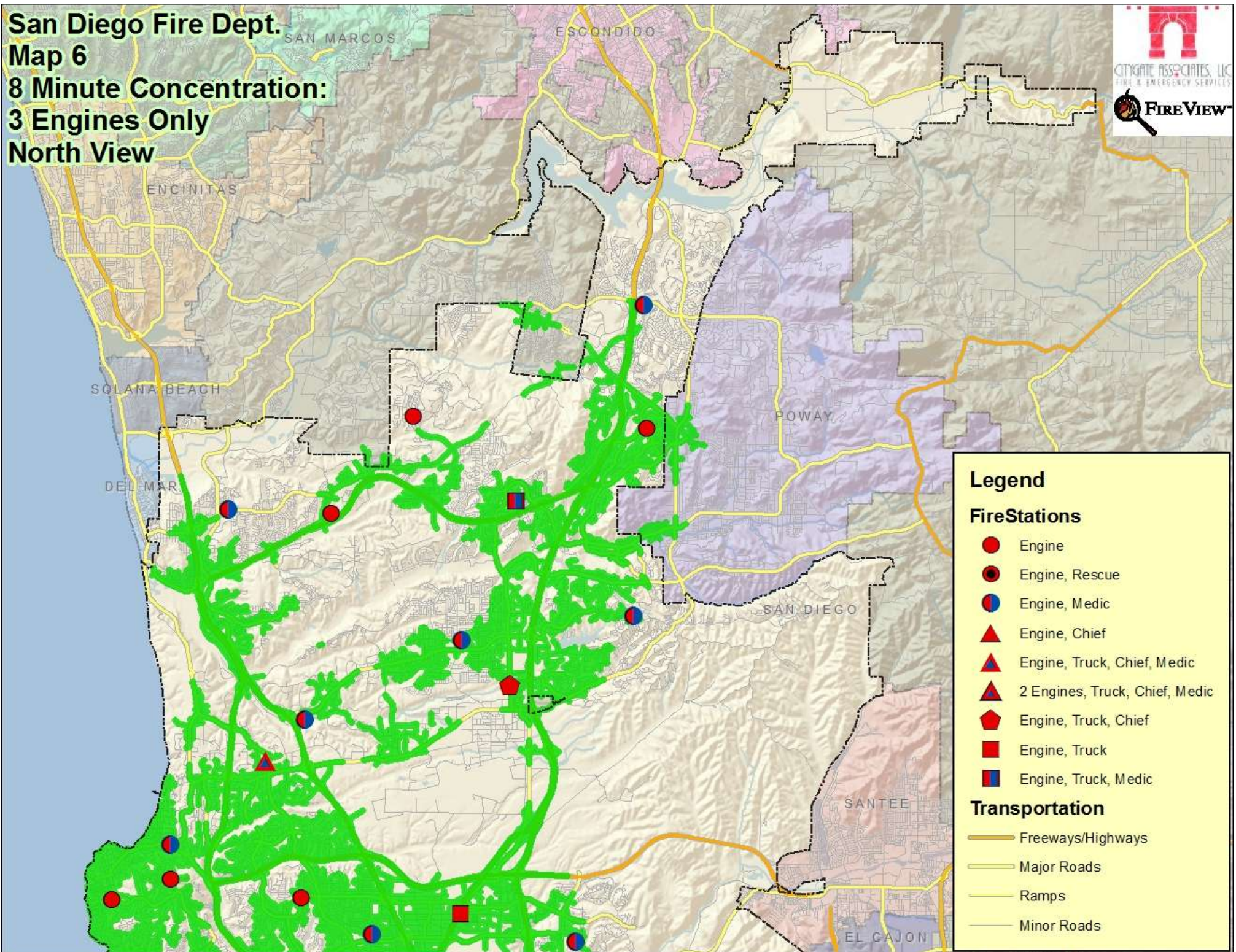
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 6
8 Minute Concentration:
3 Engines Only
North View**



**San Diego Fire Dept.
Map 6
8 Minute Concentration:
3 Engines Only
South View**



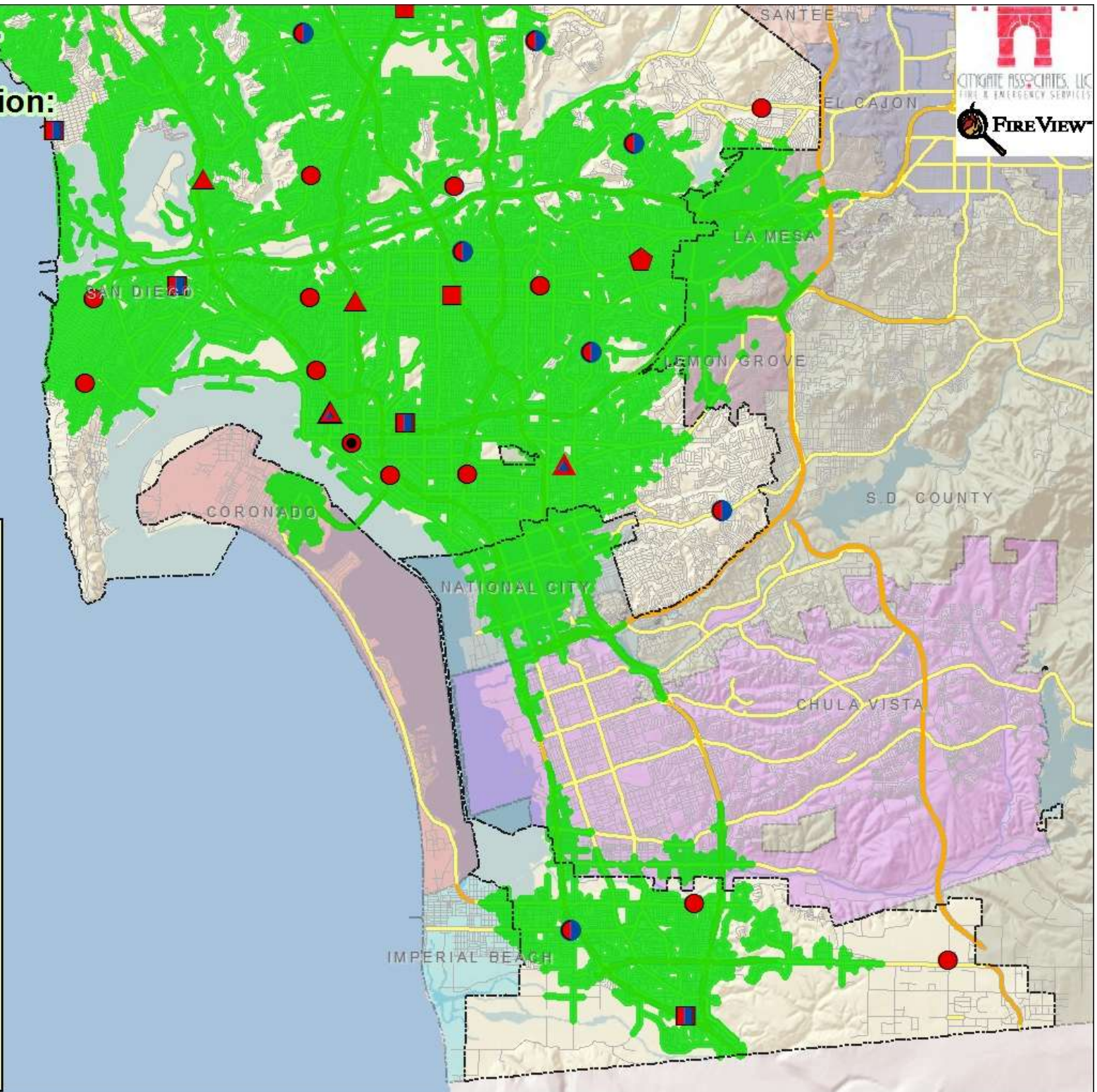
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FireStations

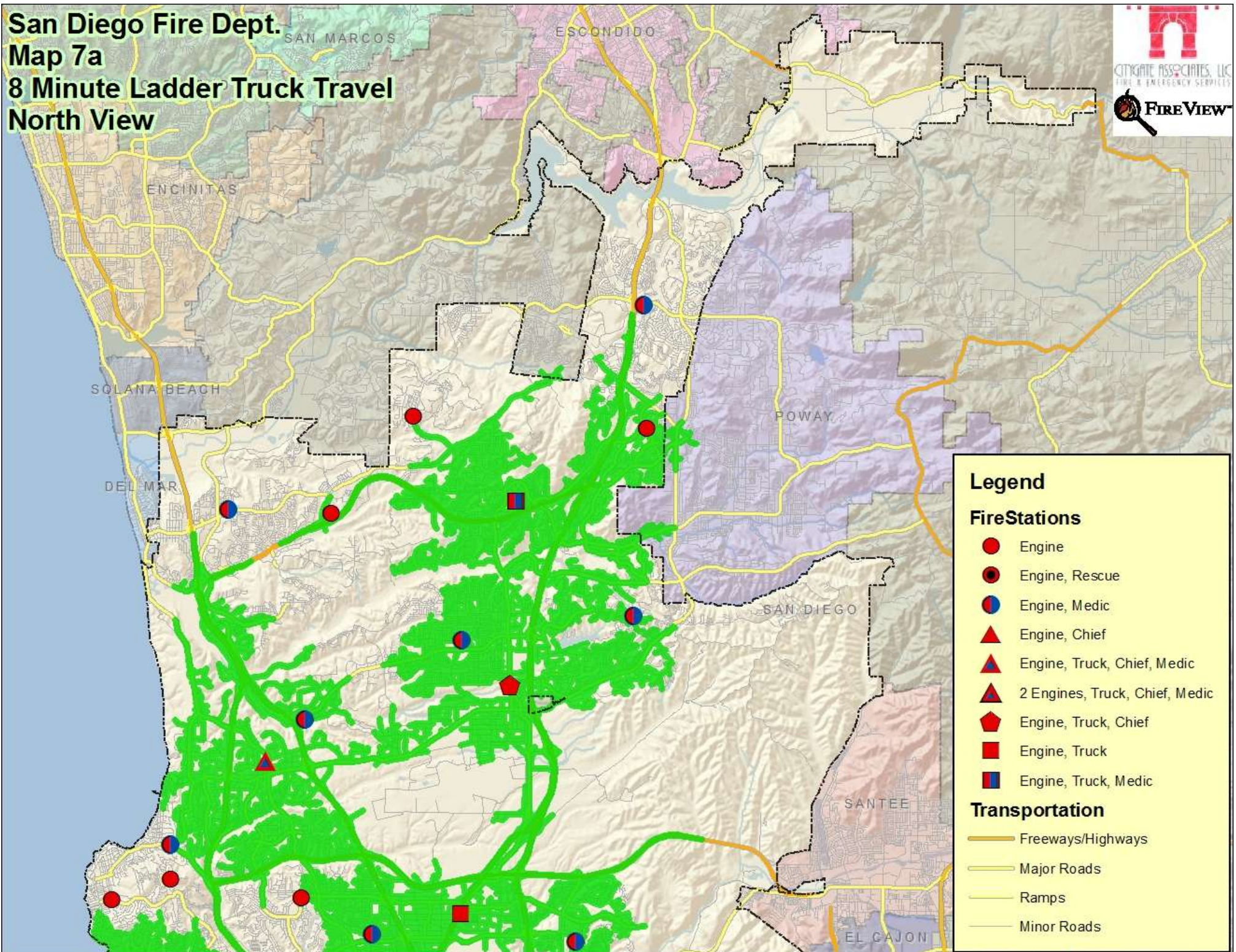
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 7a
8 Minute Ladder Truck Travel
North View**



Legend

Fire Stations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads

**San Diego Fire Dept.
Map 7a
8 Minute Ladder Truck Travel
South View**



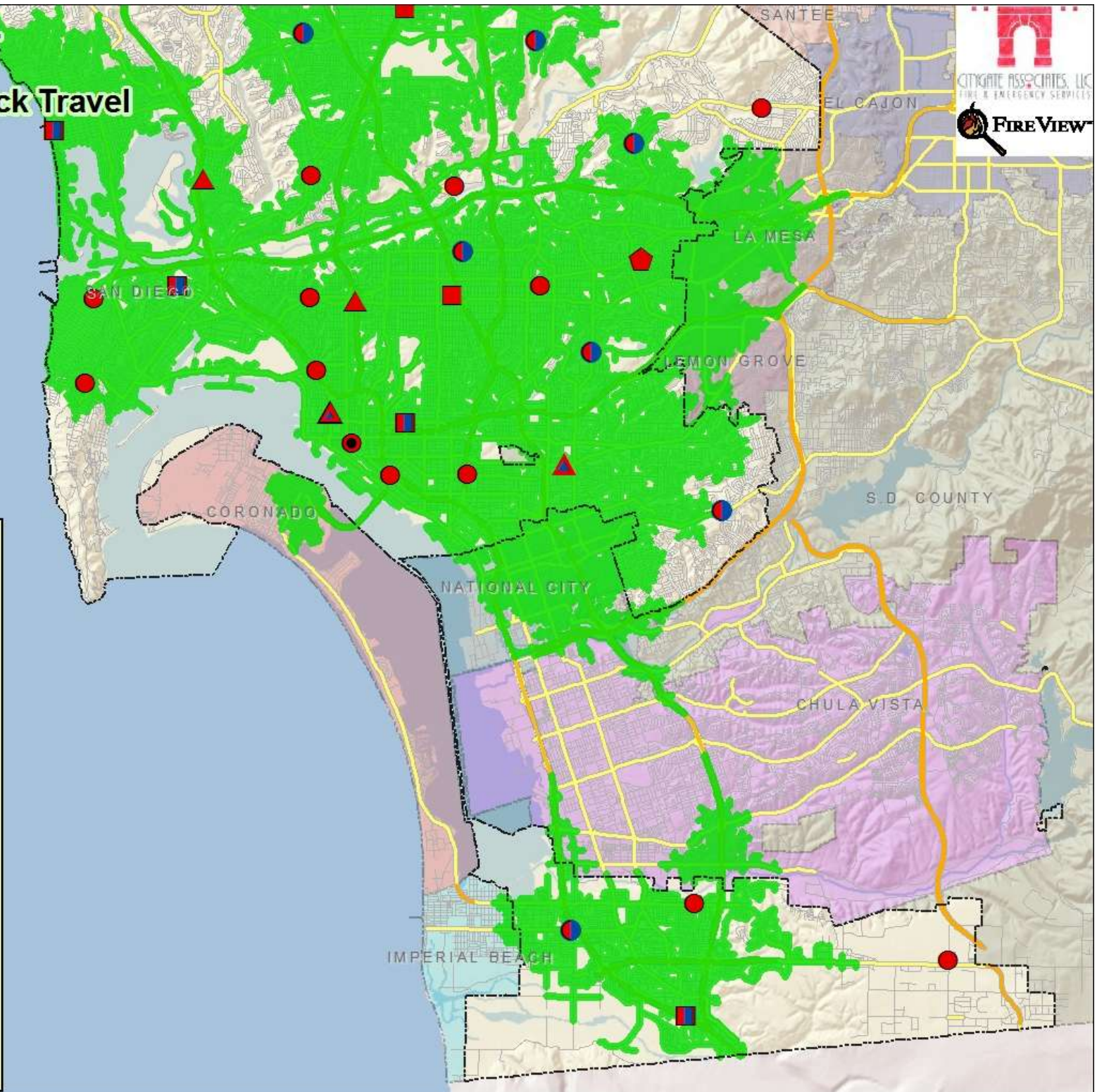
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FireStations

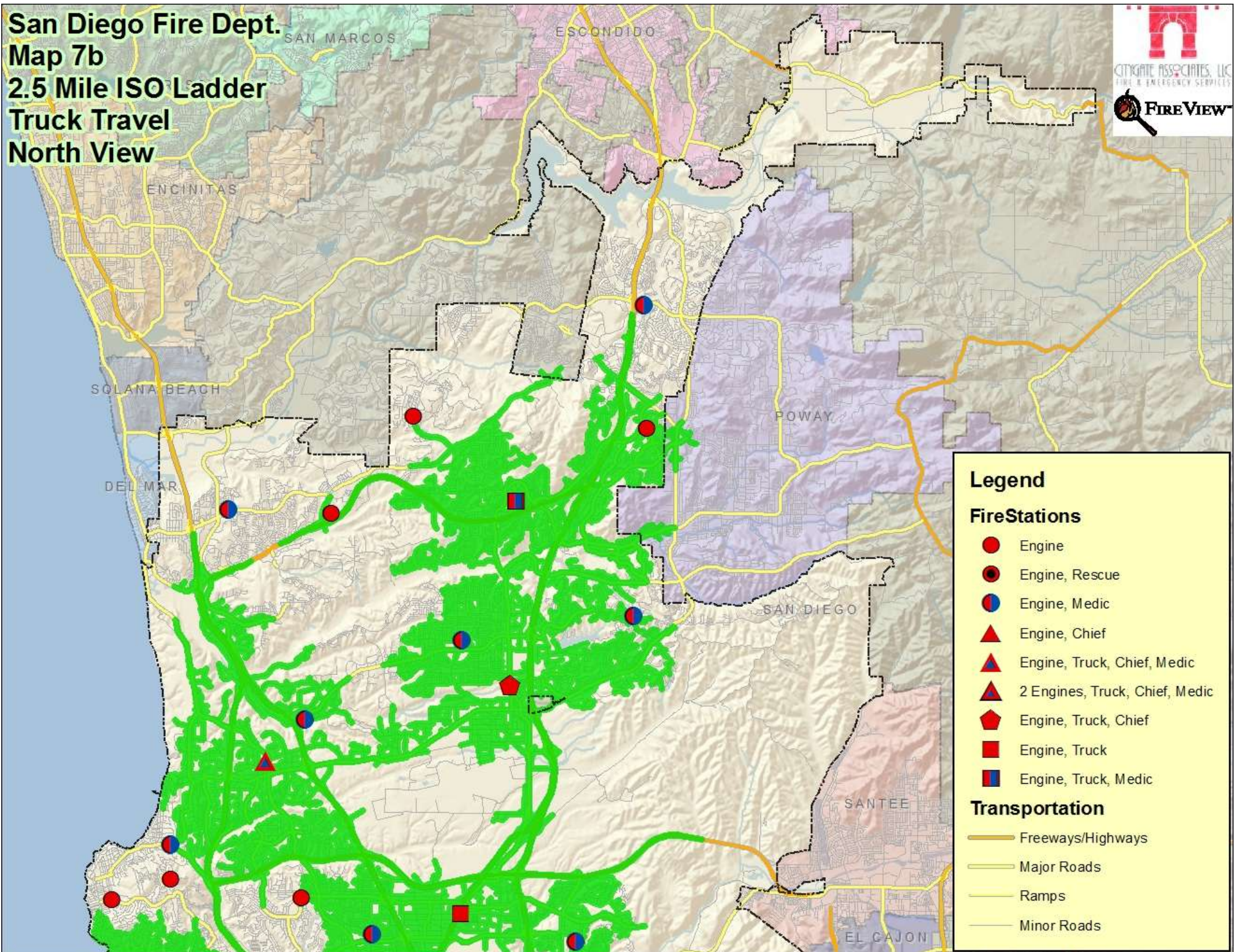
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 7b
2.5 Mile ISO Ladder
Truck Travel
North View**



**San Diego Fire Dept.
Map 7b
2.5 Mile ISO Ladder
Truck Travel
South View**



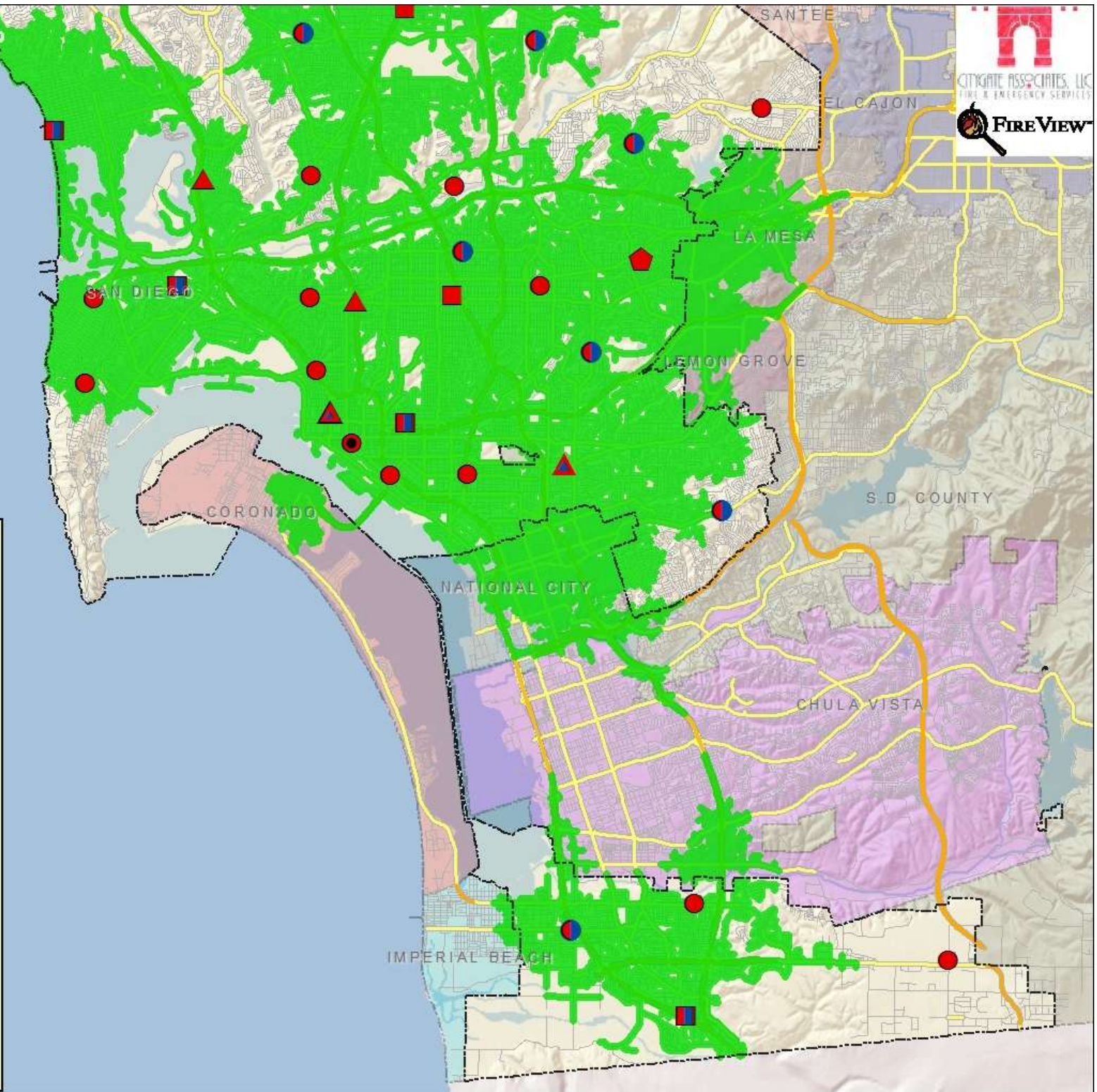
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FireStations

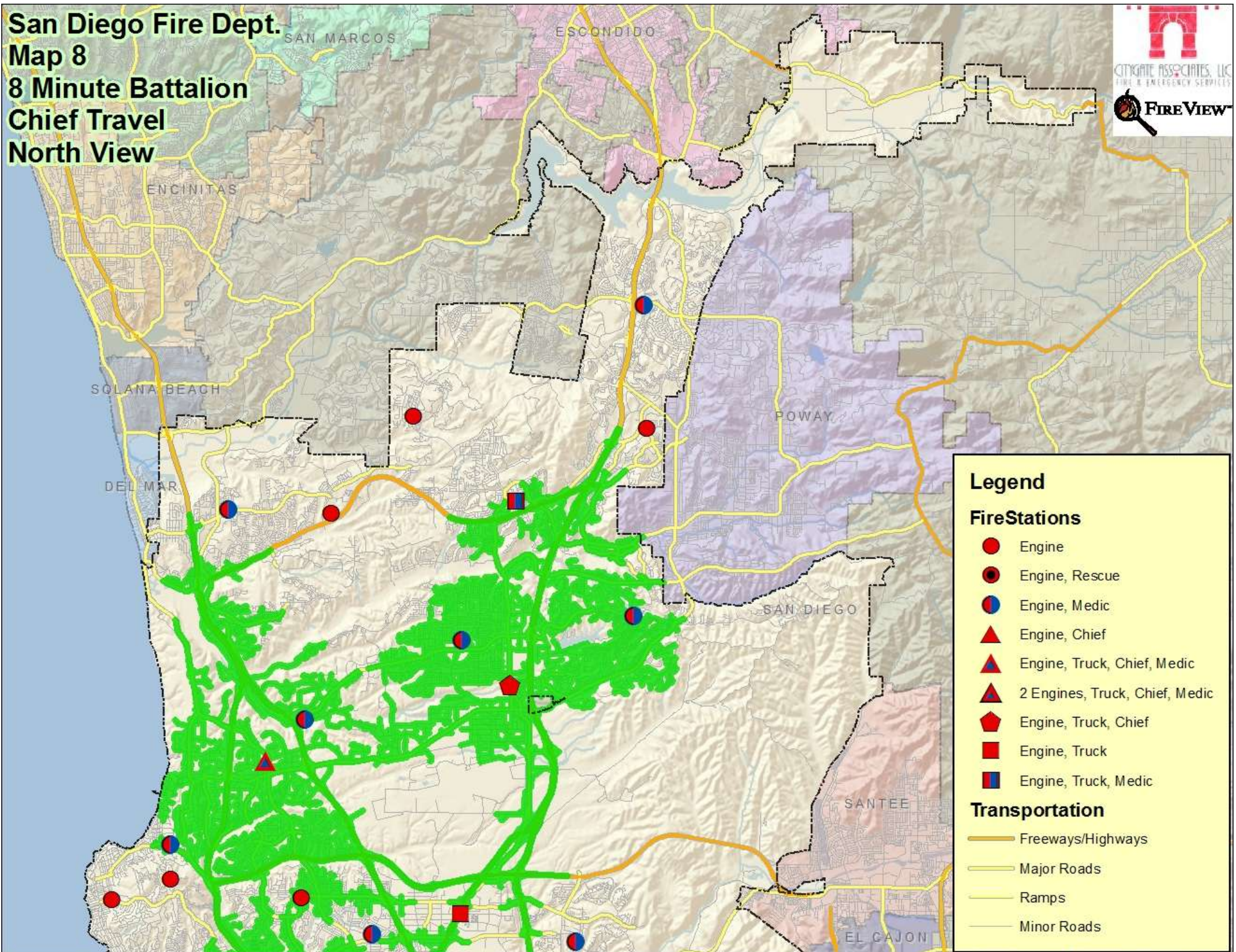
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 8
8 Minute Battalion
Chief Travel
North View**



**San Diego Fire Dept.
Map 8
8 Minute Battalion
Chief Travel
South View**



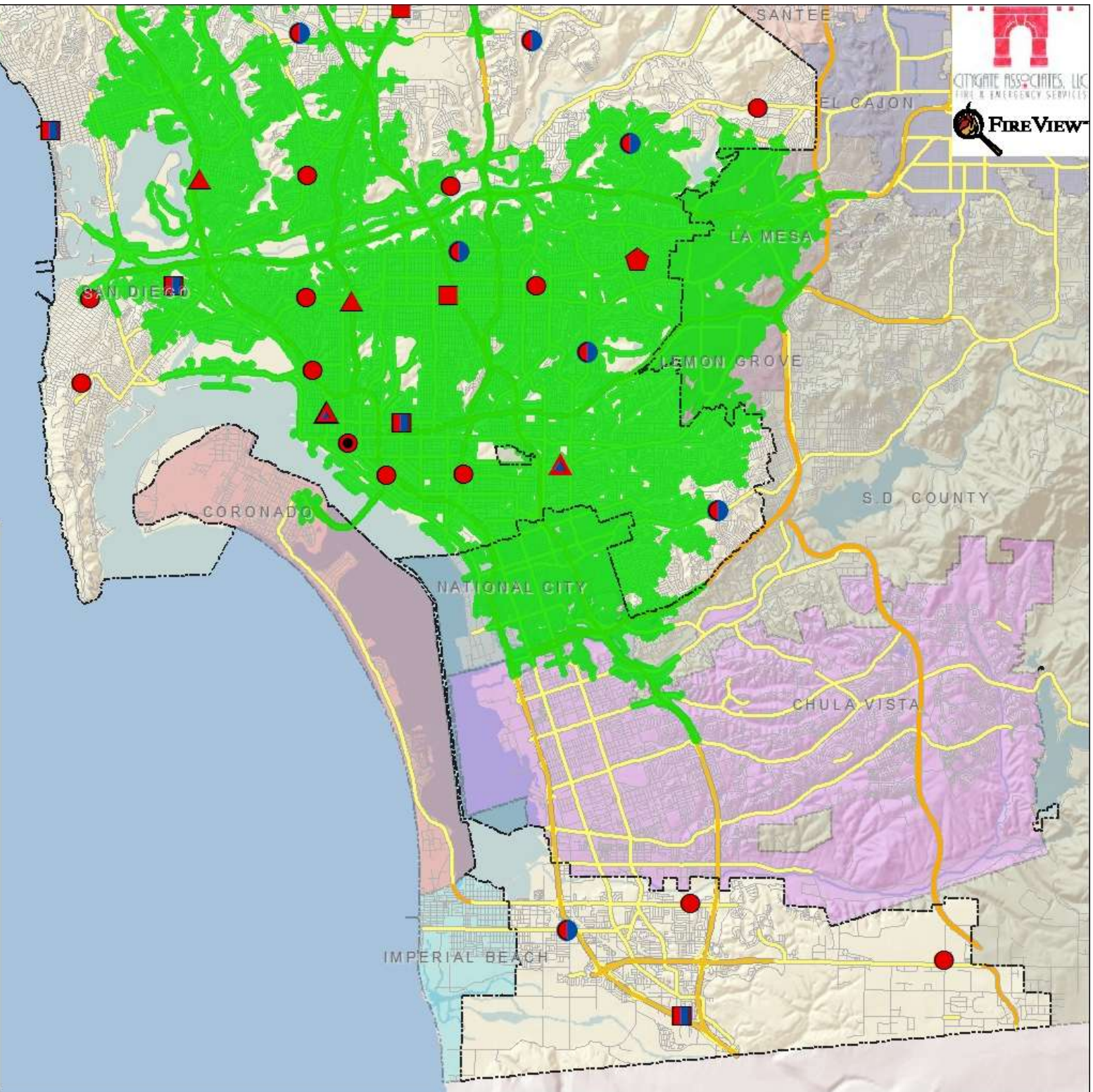
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Fire Stations

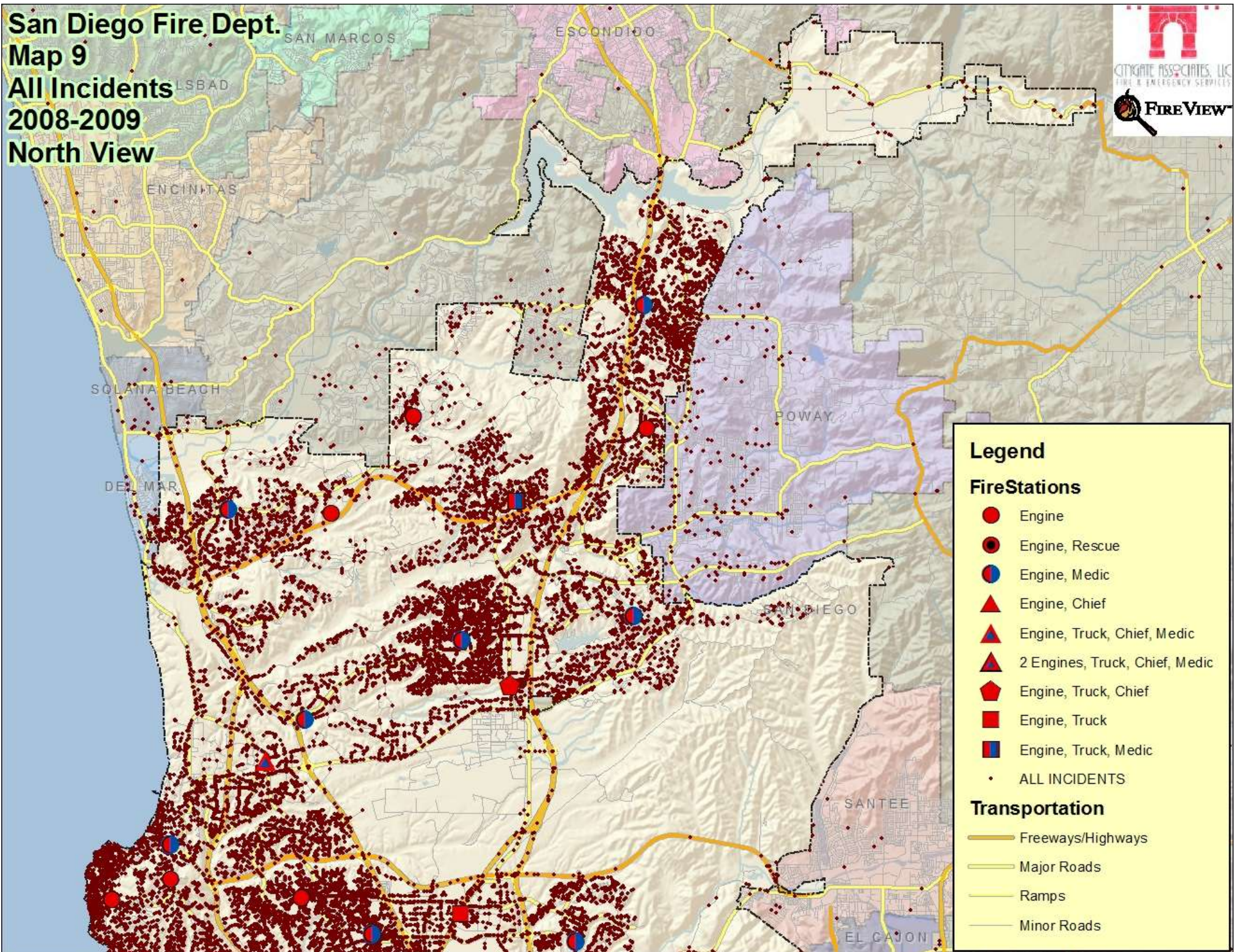
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



San Diego Fire Dept.
Map 9
All Incidents
2008-2009
North View



**San Diego Fire Dept.
Map 9
All Incidents
2008-2009
South View**



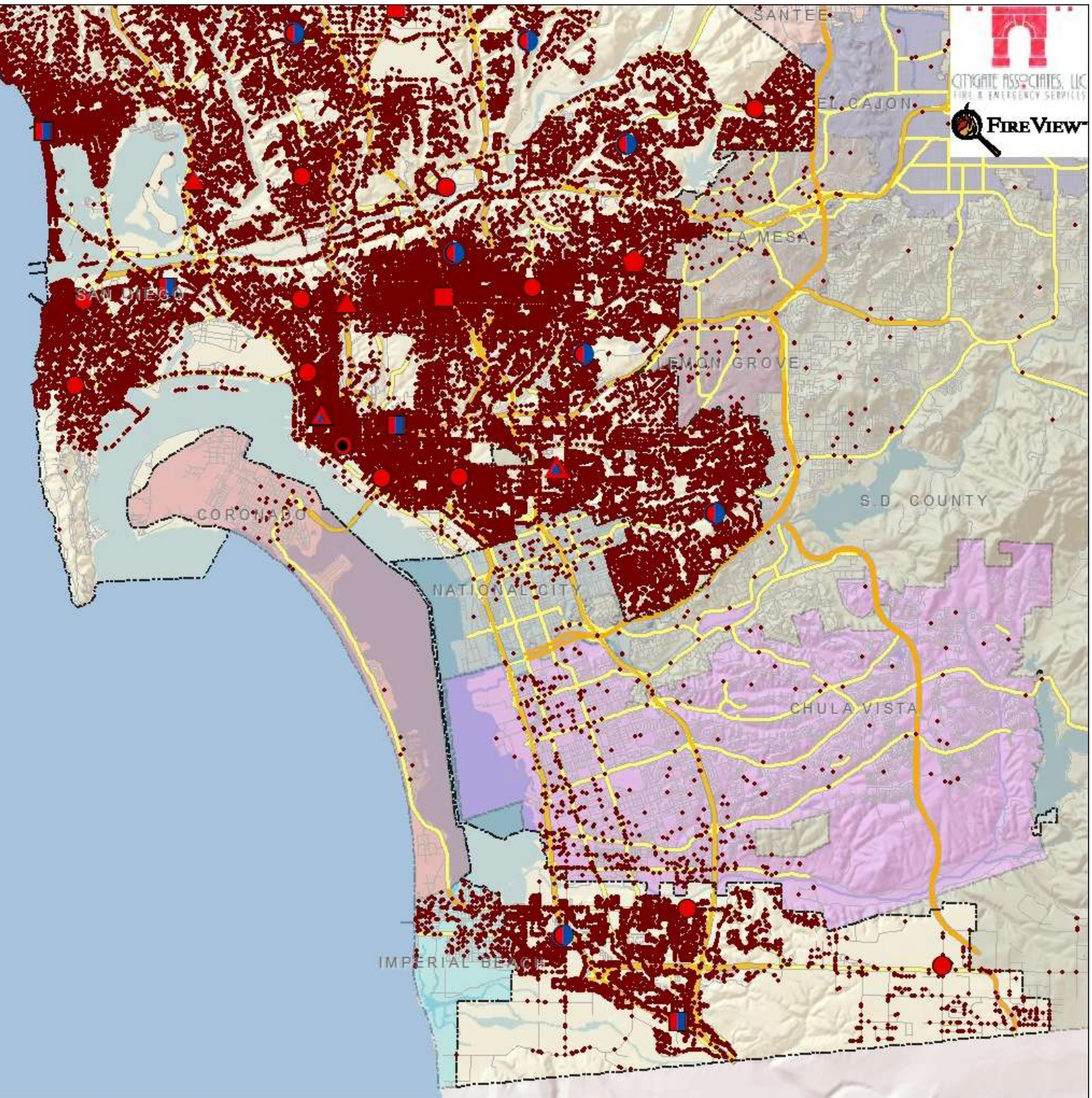
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Fire Stations

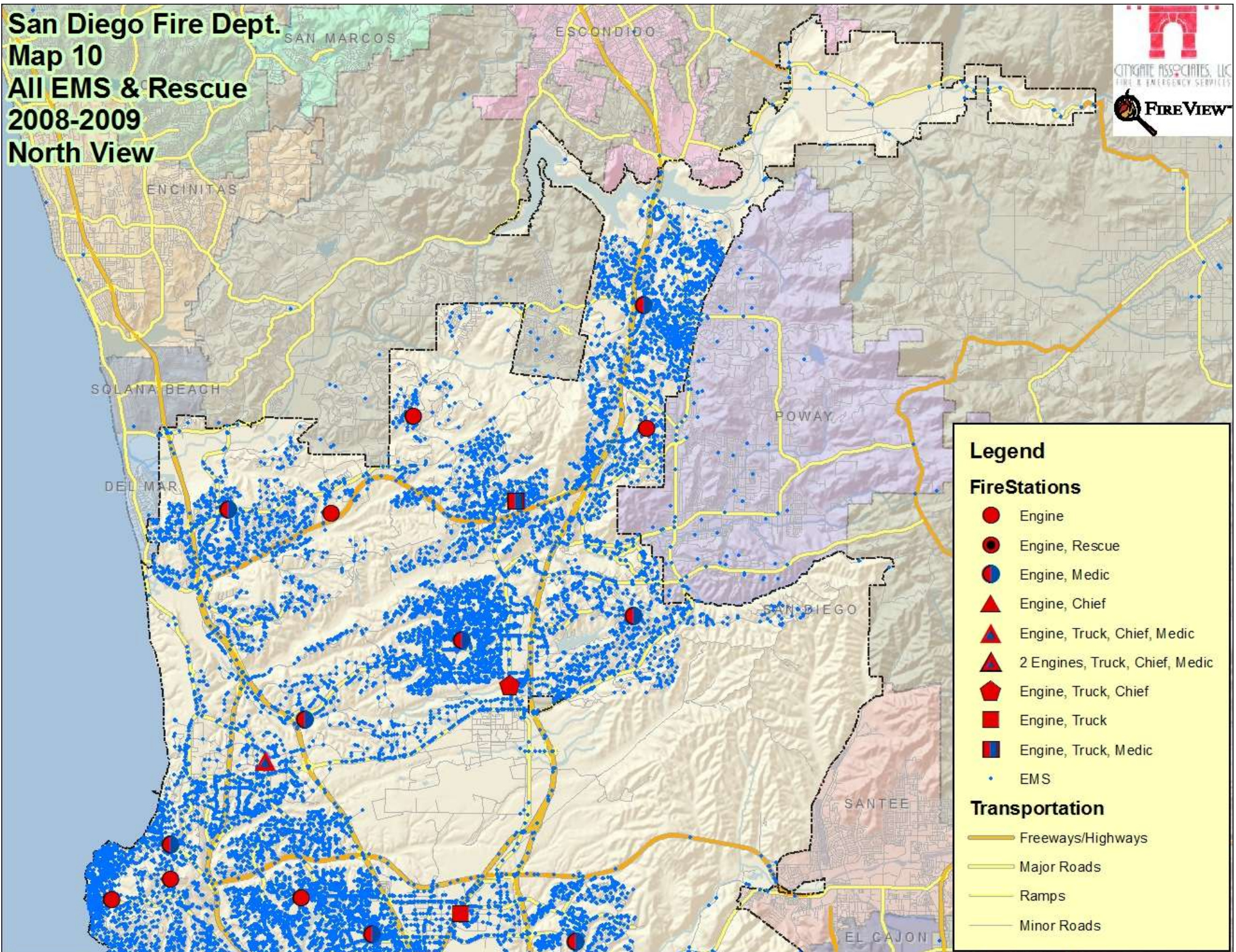
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- ALL INCIDENTS

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



San Diego Fire Dept.
Map 10
All EMS & Rescue
2008-2009
North View



**San Diego Fire Dept.
Map 10
All EMS & Rescue
2008-2009
South View**



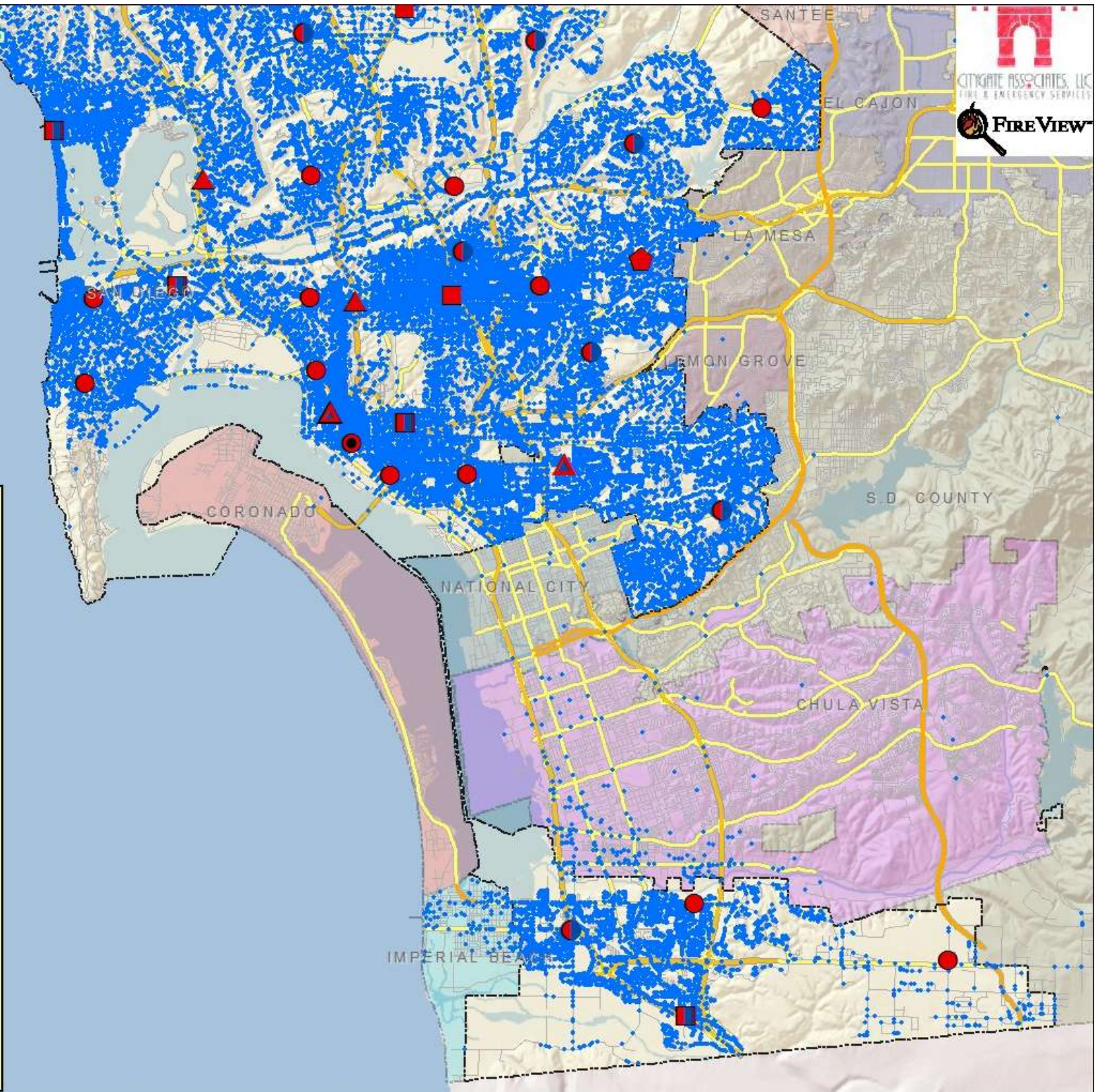
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Fire Stations

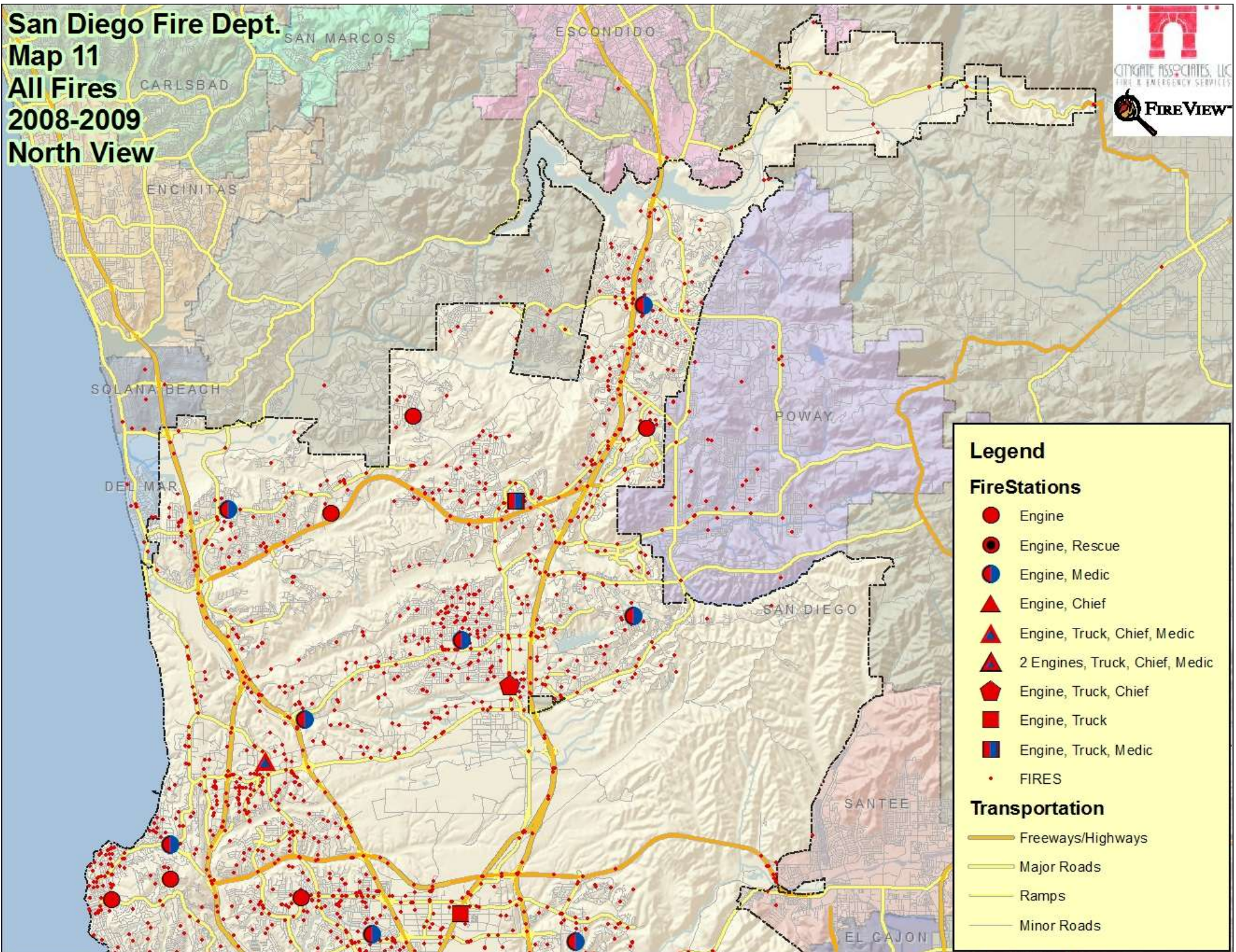
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- EMS

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



San Diego Fire Dept.
Map 11
All Fires
2008-2009
North View



**San Diego Fire Dept.
Map 11
All Fires
2008-2009
South View**



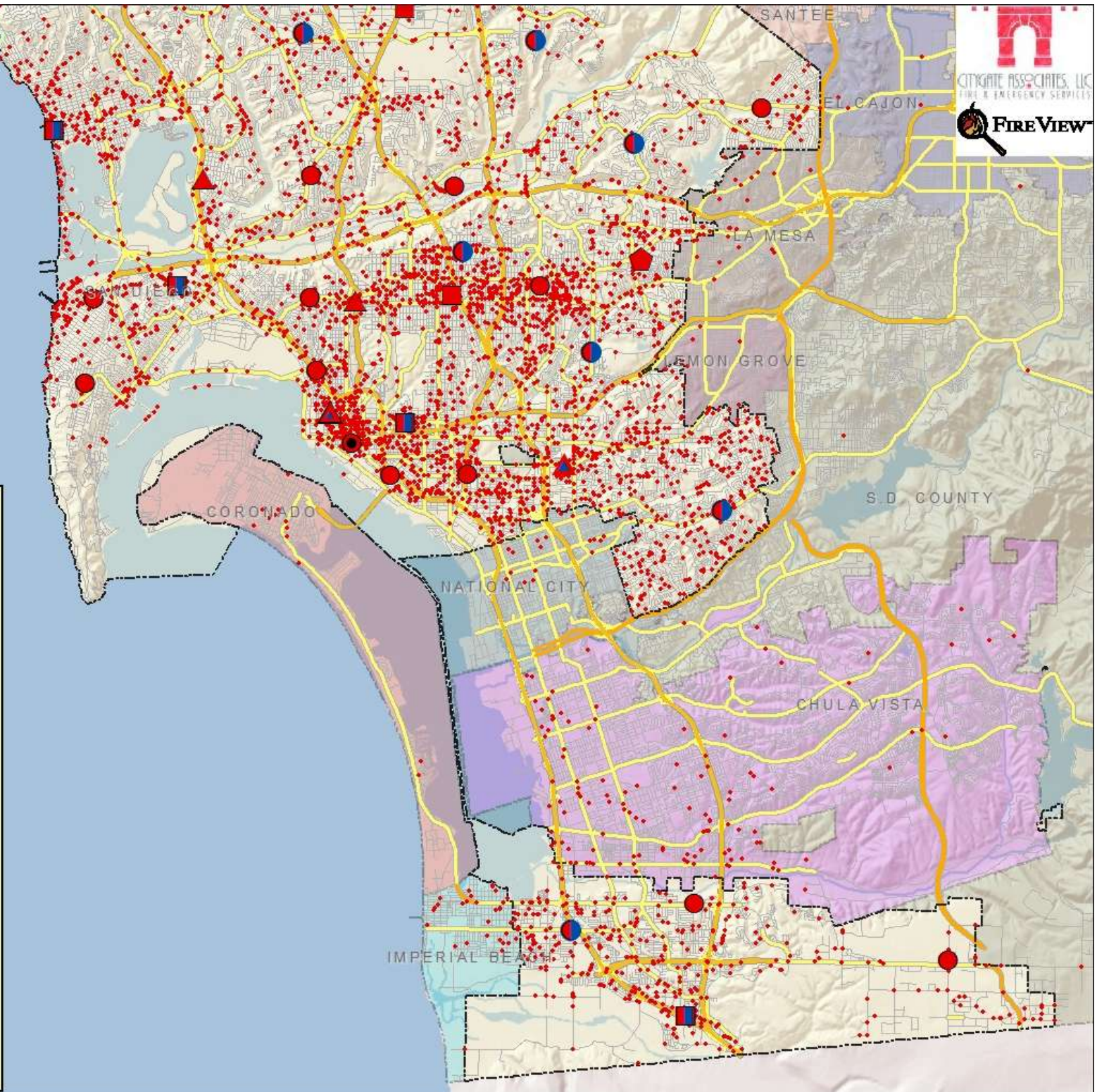
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Fire Stations

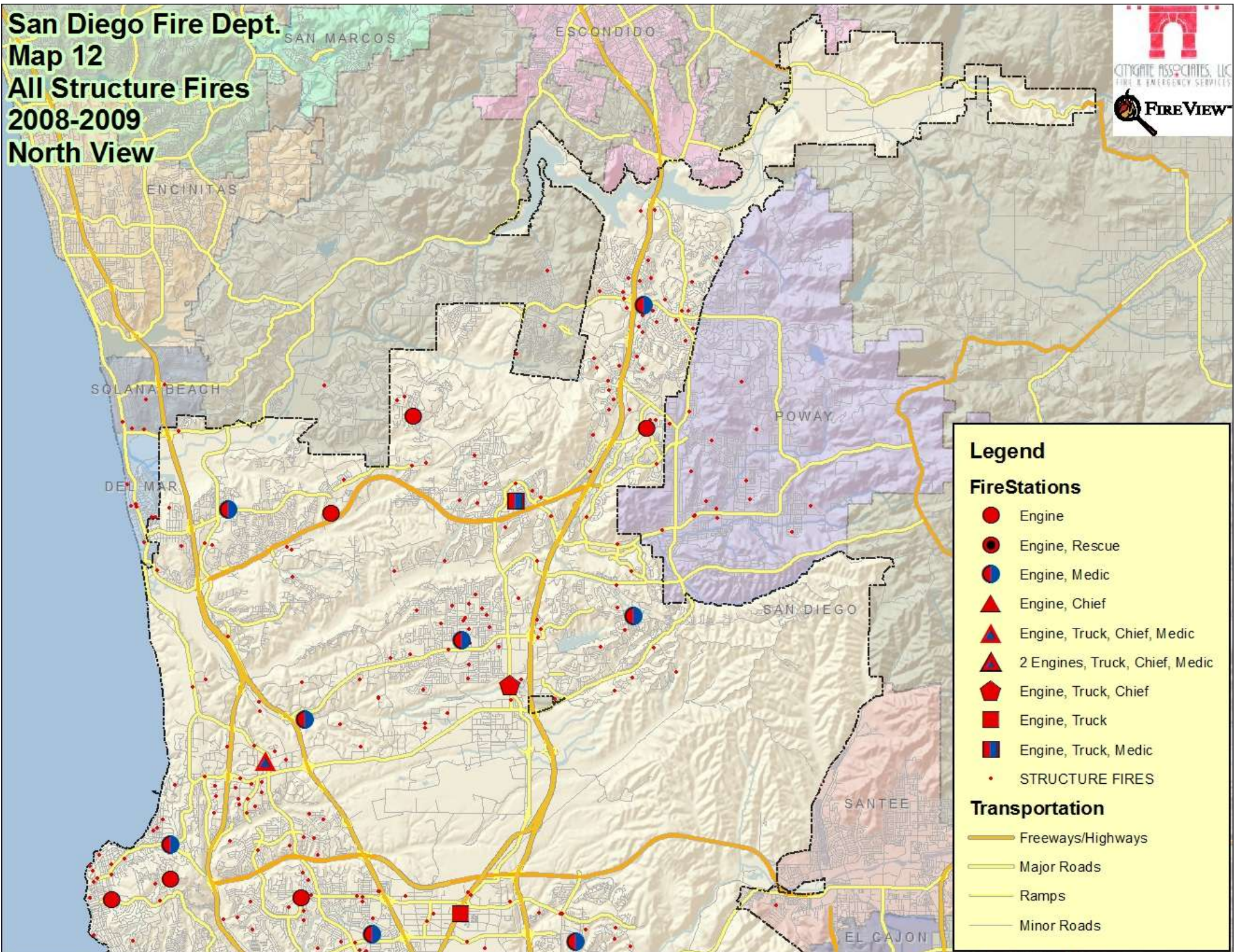
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- FIRES

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 12
All Structure Fires
2008-2009
North View**



**San Diego Fire Dept.
Map 12
All Structure Fires
2008-2009
South View**



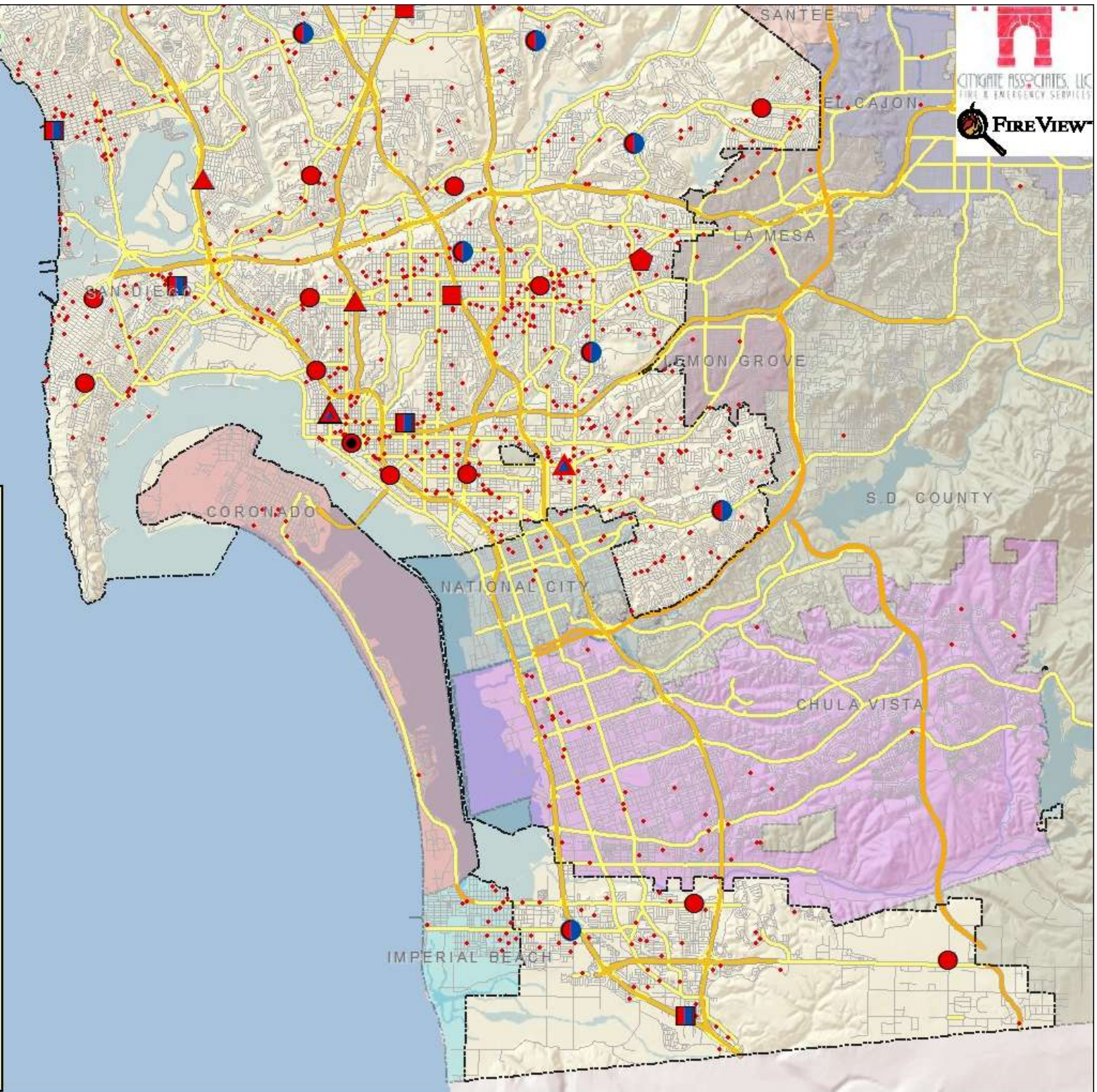
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Fire Stations

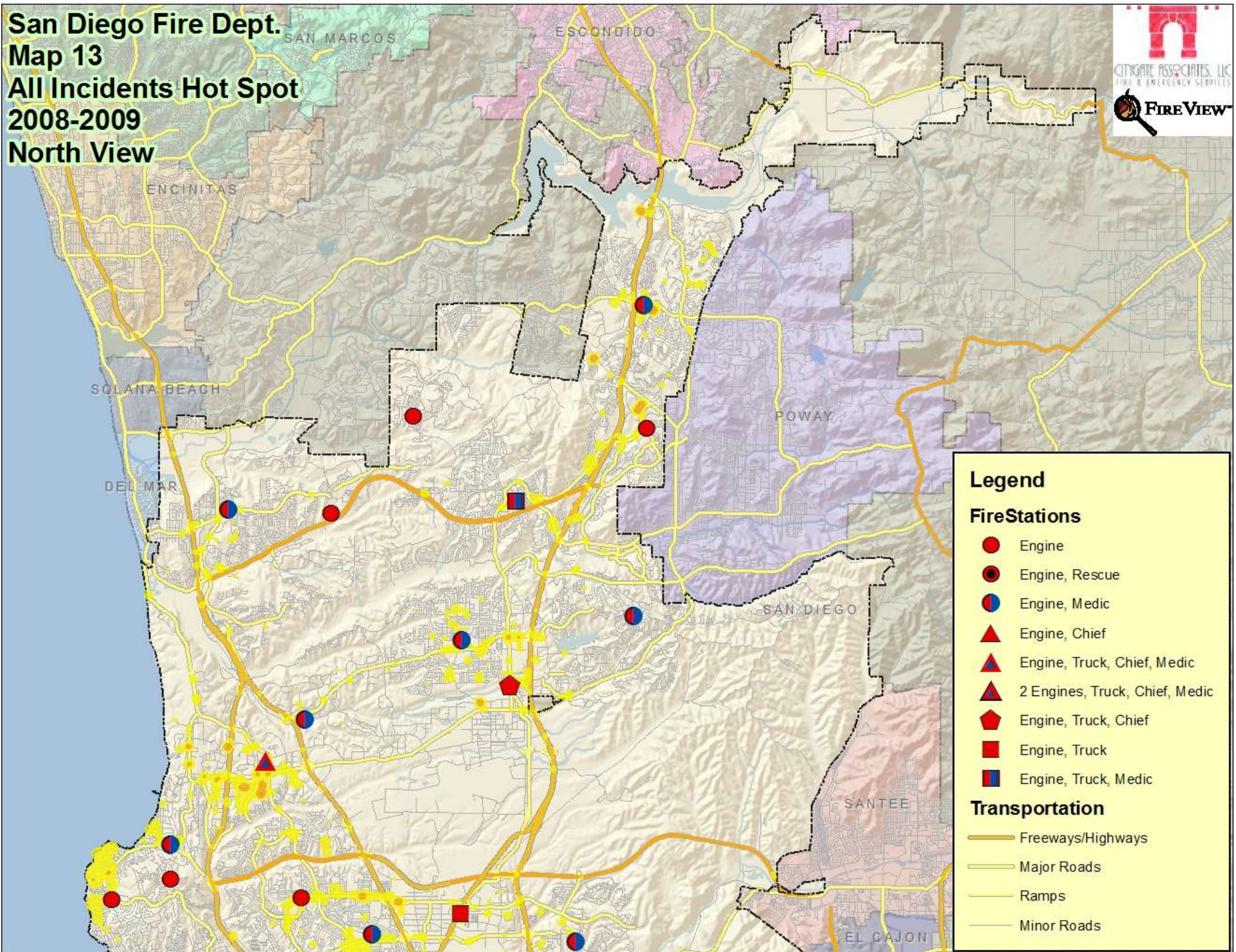
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- STRUCTURE FIRES

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 13
All Incidents Hot Spot
2008-2009
North View**



Legend

FireStations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads

**San Diego Fire Dept.
Map 13
All Incidents
Hot Spot
2008-2009
South View**



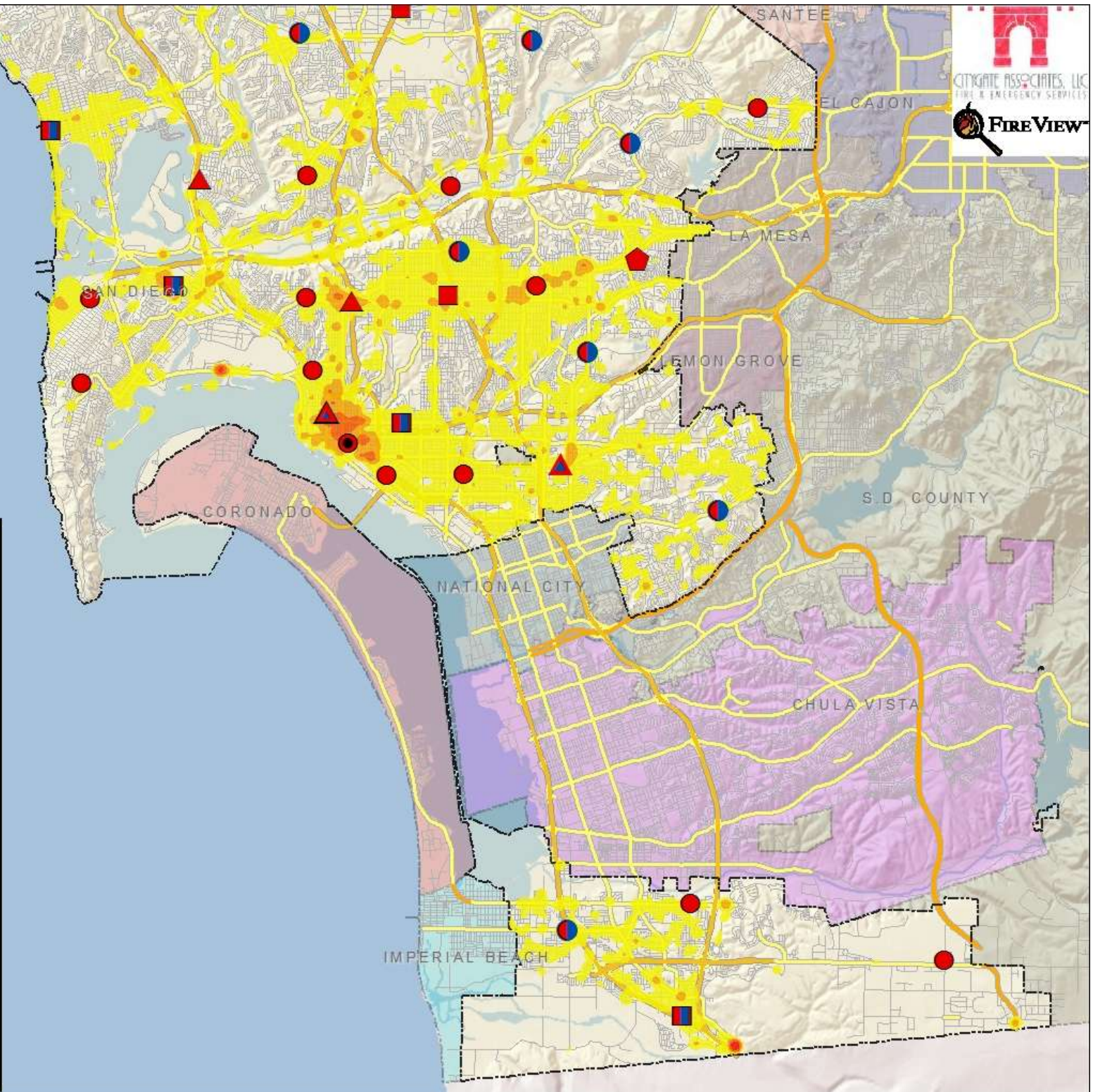
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FireStations

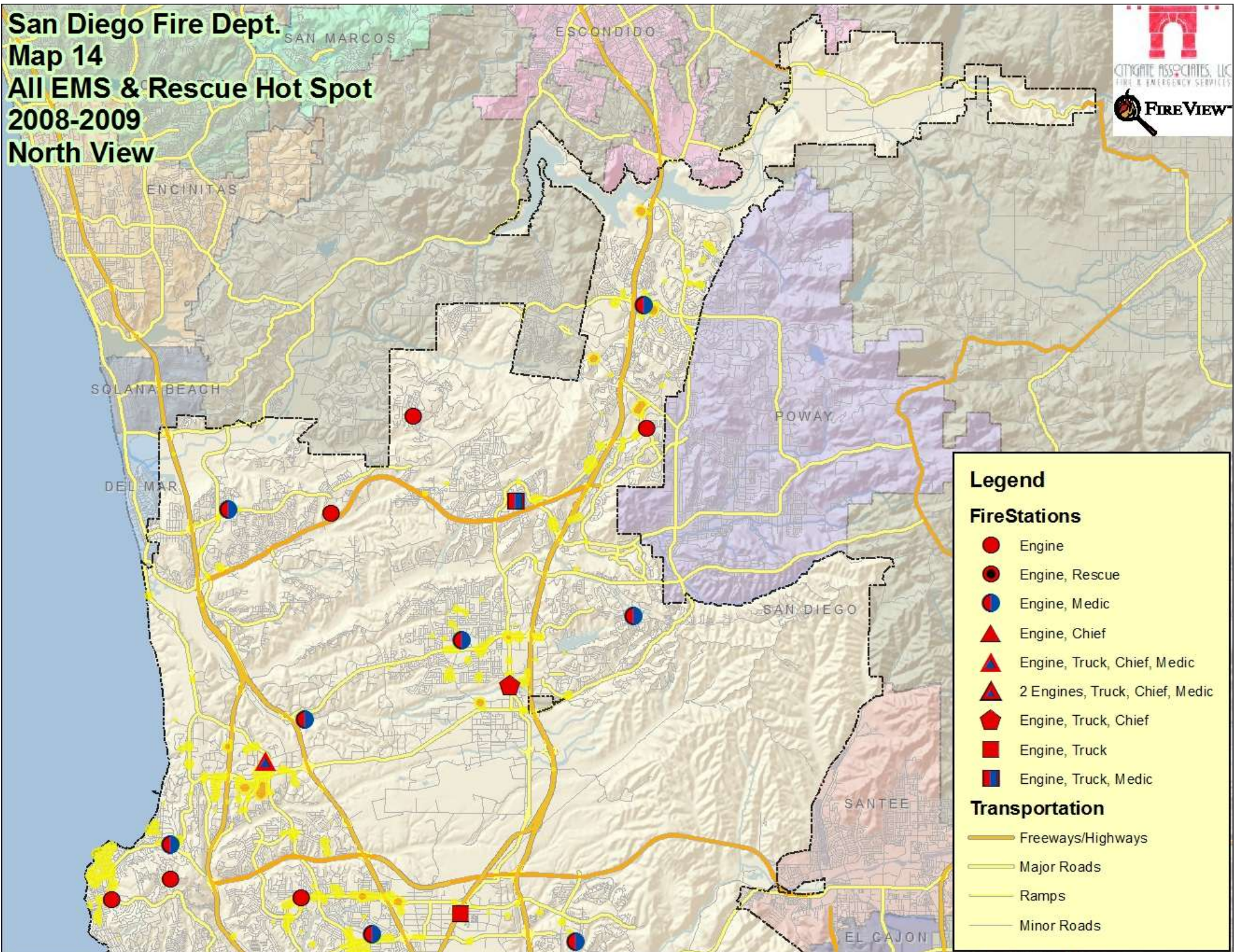
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 14
All EMS & Rescue Hot Spot
2008-2009
North View**



Legend

FireStations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads

**San Diego Fire Dept.
Map 14
All EMS & Rescue
Hot Spot
2008-2009
South View**



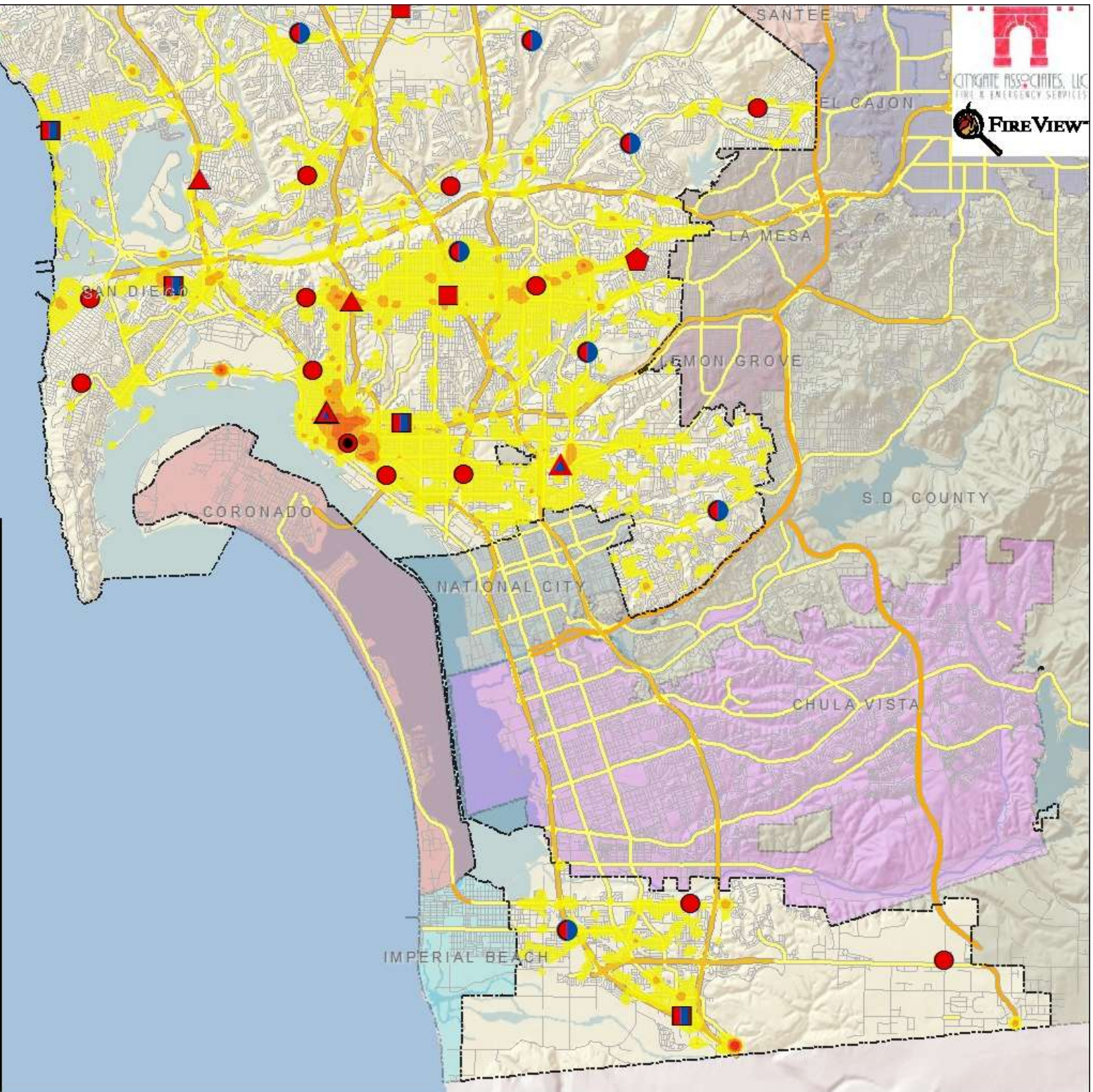
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FireStations

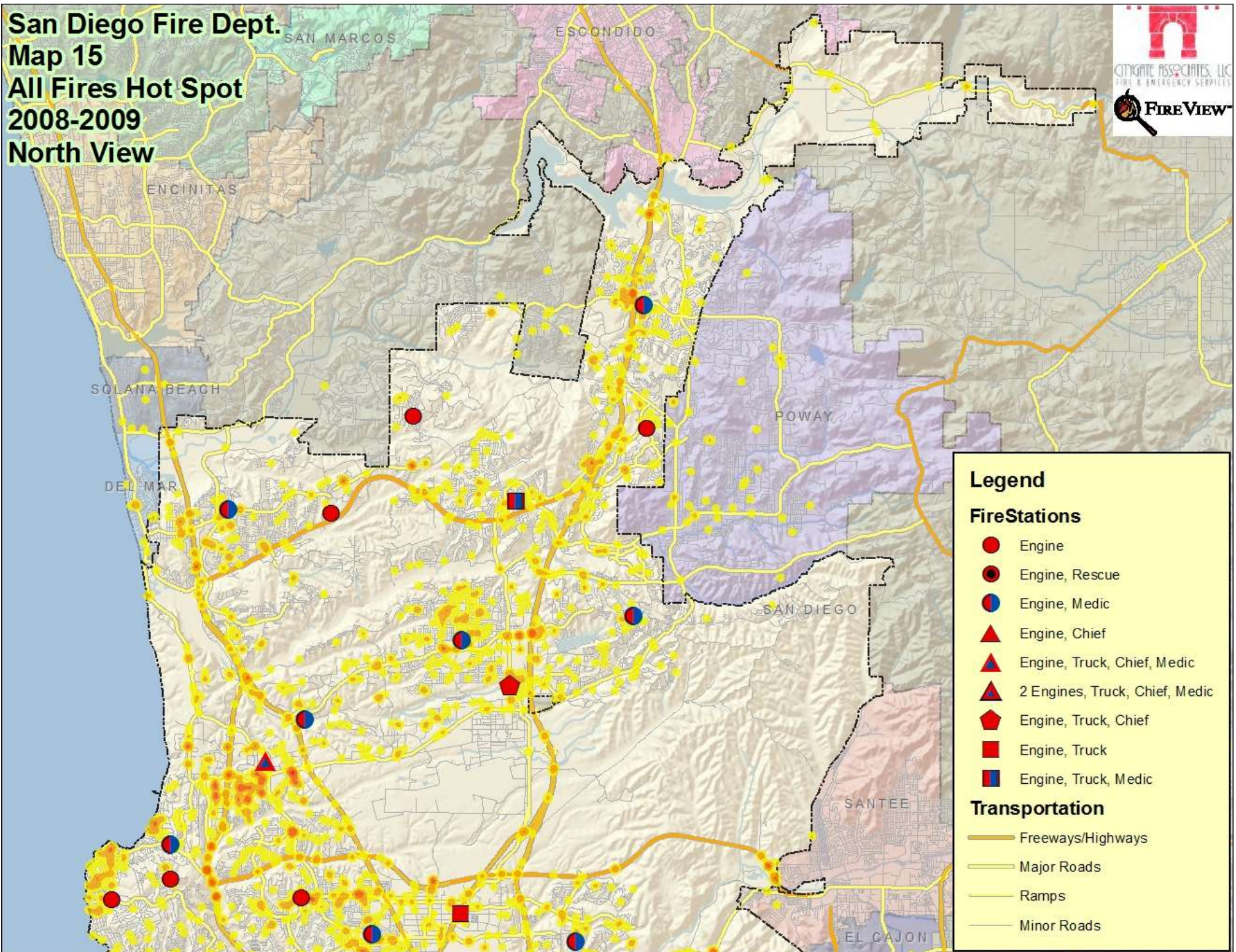
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 15
All Fires Hot Spot
2008-2009
North View**



Legend

FireStations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads

**San Diego Fire Dept.
Map 15
All Fires Hot Spot
2008-2009
South View**



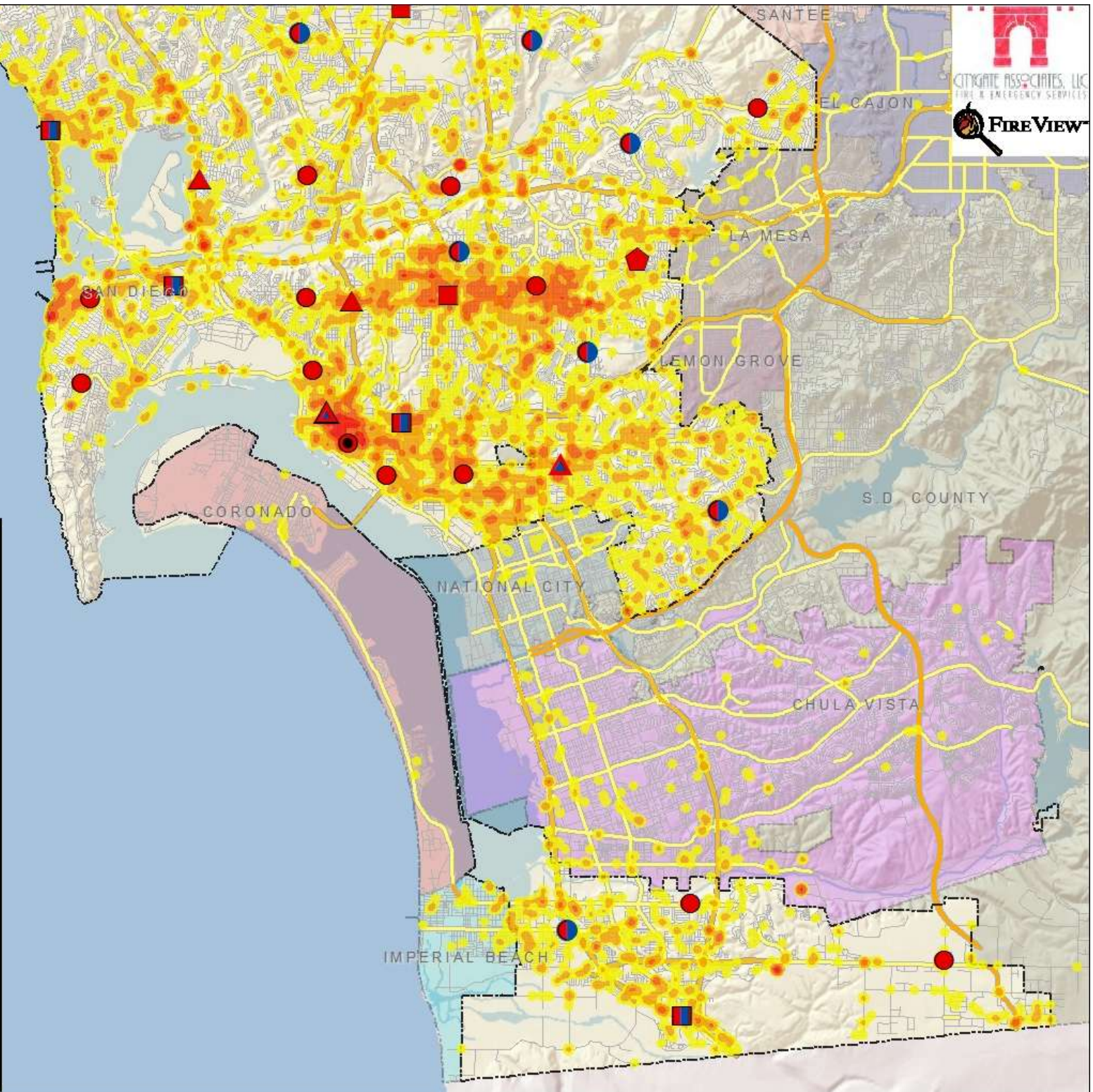
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Fire Stations

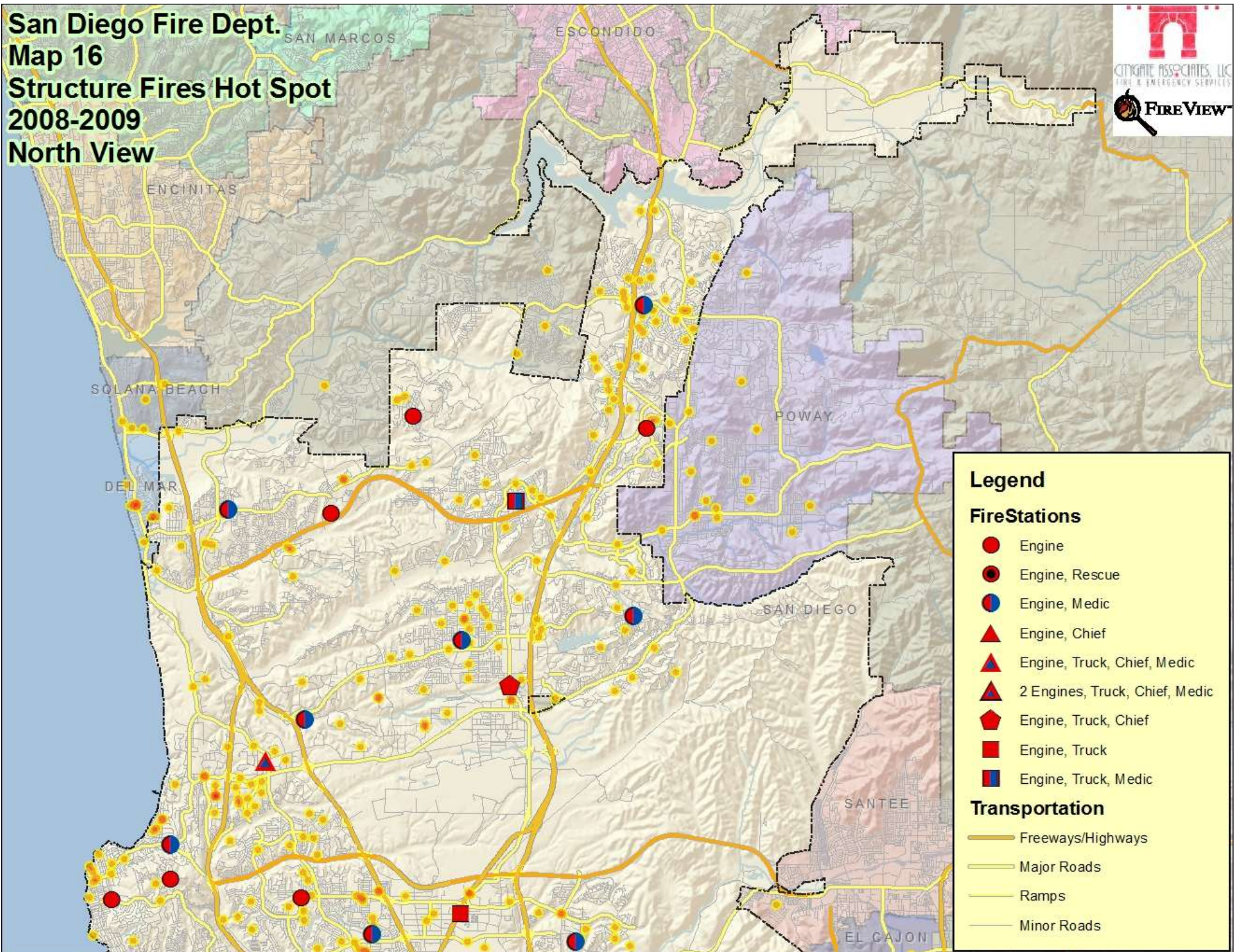
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 16
Structure Fires Hot Spot
2008-2009
North View**



Legend

FireStations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads

**San Diego Fire Dept.
Map 16
Structure Fires
Hot Spot
2008-2009
South View**



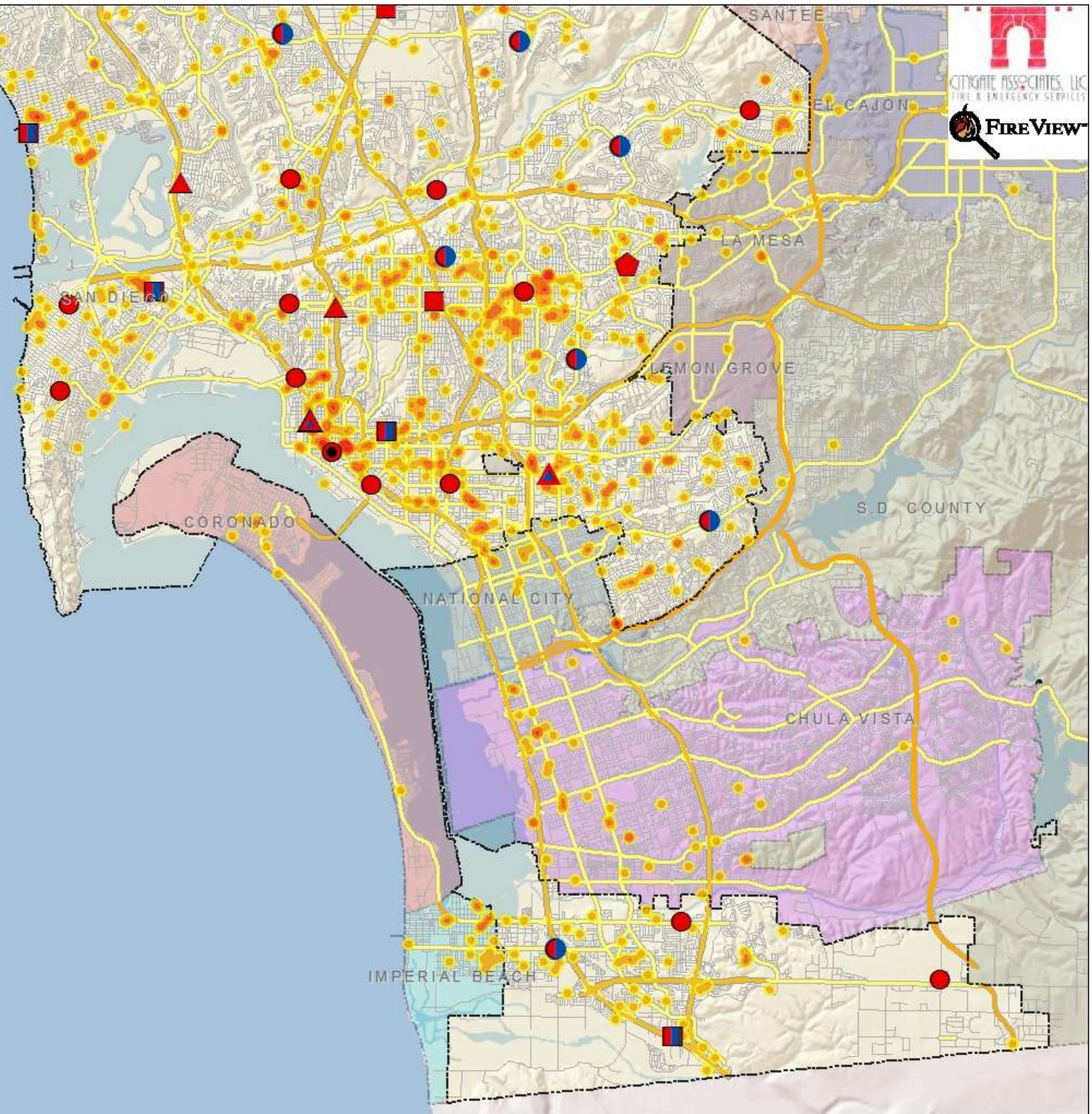
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FireStations

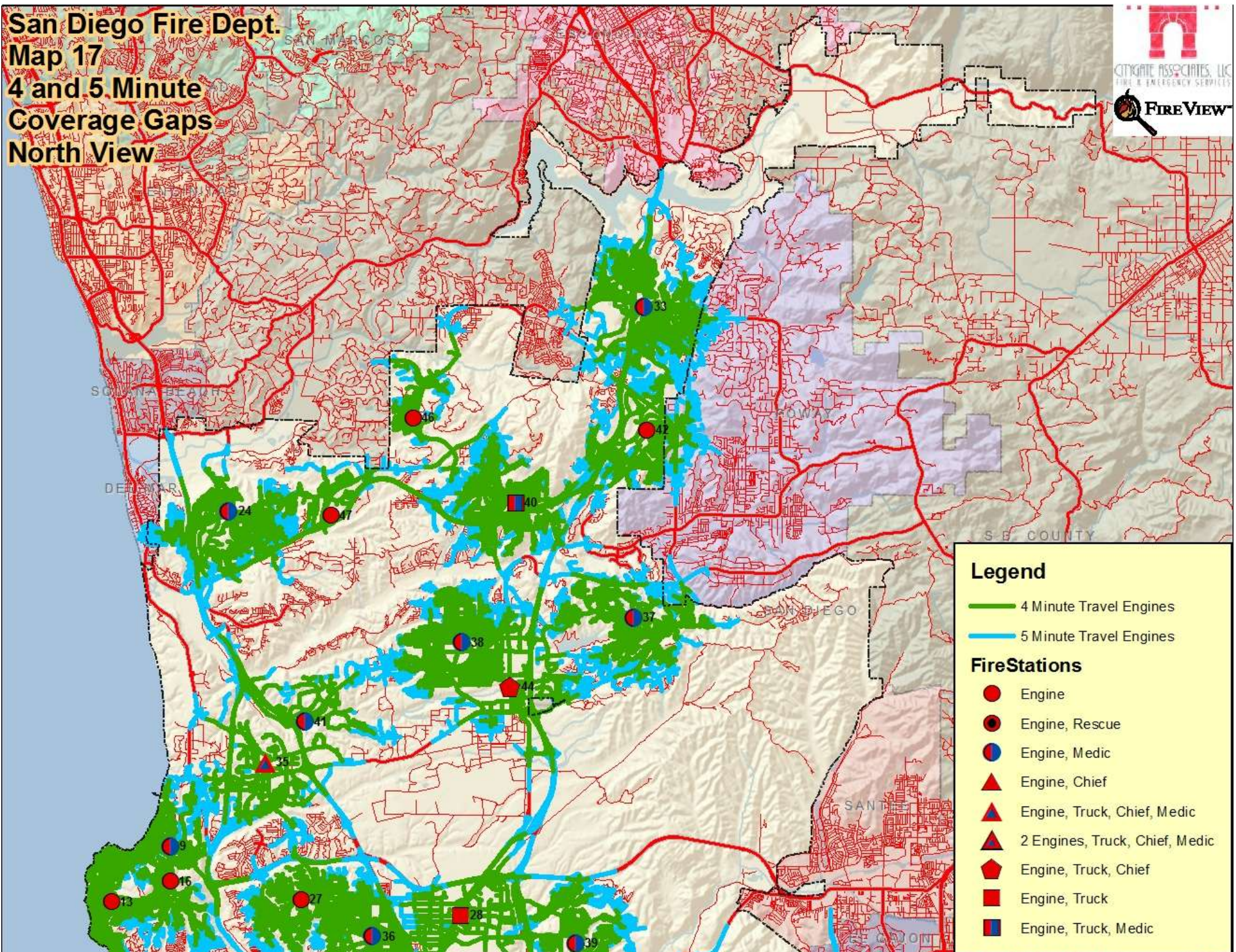
- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

Transportation

- Freeways/Highways
- Major Roads
- Ramps
- Minor Roads



**San Diego Fire Dept.
Map 17
4 and 5 Minute
Coverage Gaps
North View**



Legend

- 4 Minute Travel Engines
- 5 Minute Travel Engines

Fire Stations

- Engine
- Engine, Rescue
- Engine, Medic
- Engine, Chief
- Engine, Truck, Chief, Medic
- 2 Engines, Truck, Chief, Medic
- Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic

San Diego Fire Dept. Map 17 4 and 5 Minute Coverage Gaps South View

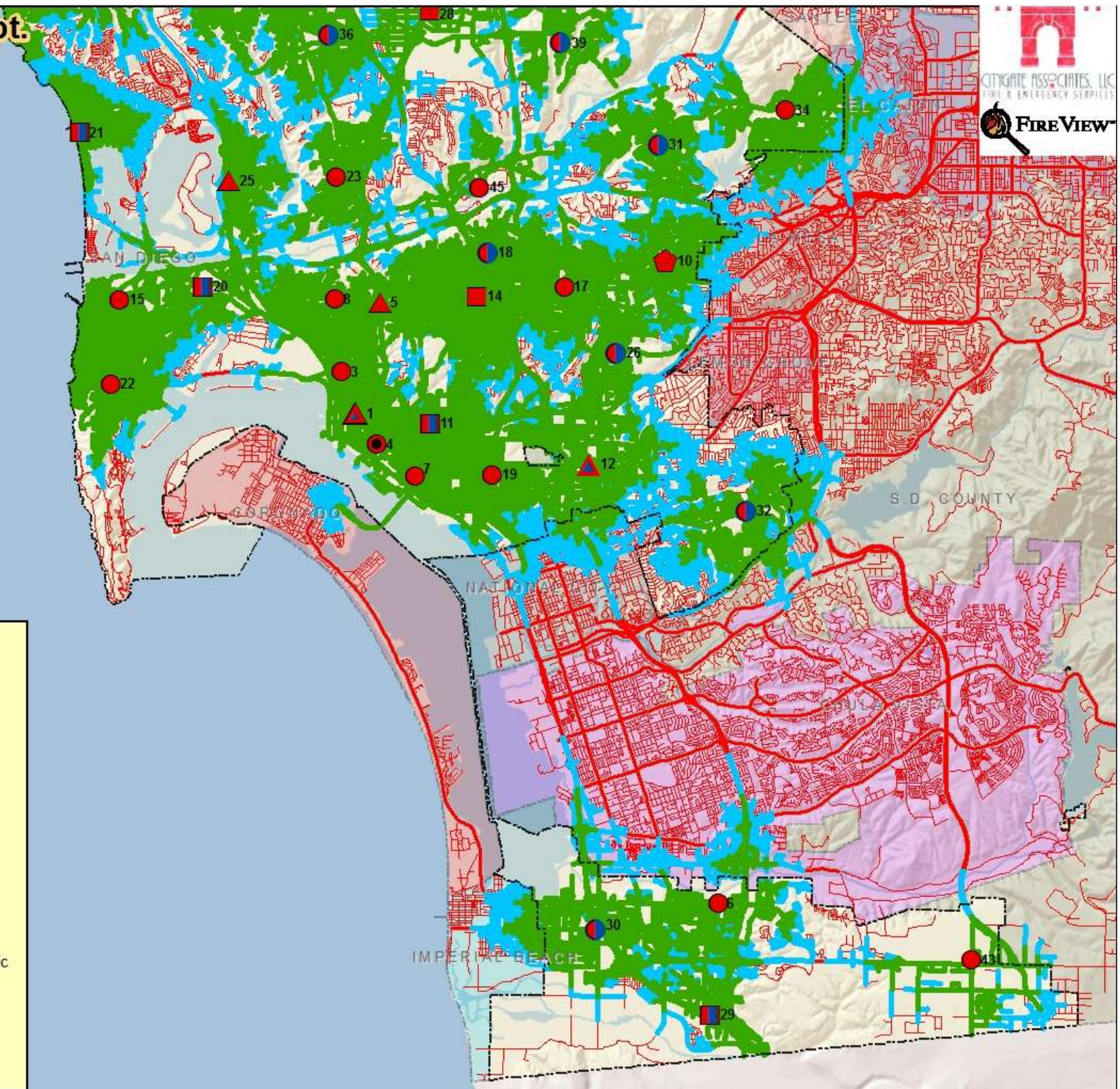


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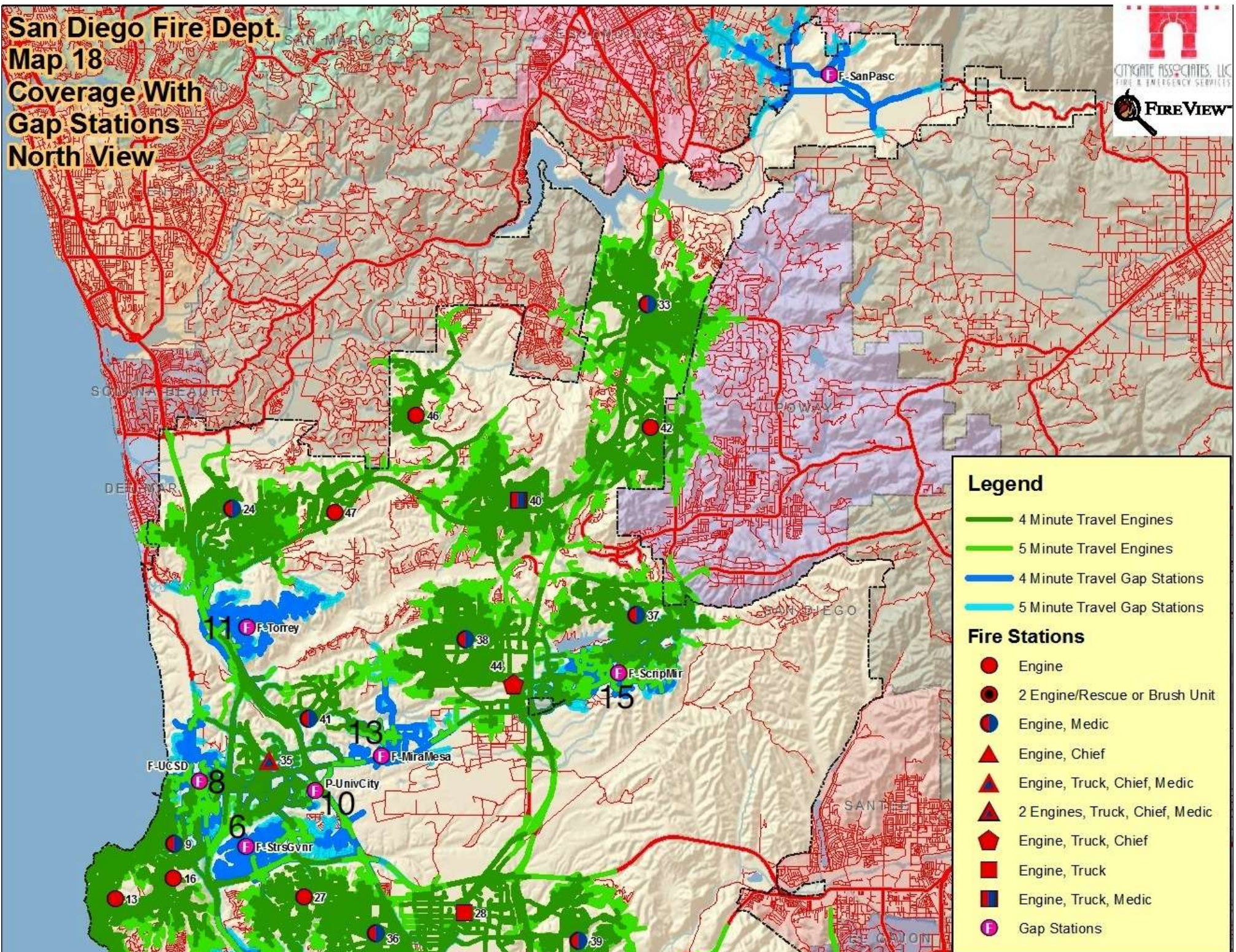
- 4 Minute Travel Engines
- 5 Minute Travel Engines

Fire Stations

- Engine
- Engine, Rescue
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic



**San Diego Fire Dept.
Map 18
Coverage With
Gap Stations
North View**



Legend

- 4 Minute Travel Engines
- 5 Minute Travel Engines
- 4 Minute Travel Gap Stations
- 5 Minute Travel Gap Stations

Fire Stations

- Engine
- 2 Engine/Rescue or Brush Unit
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- Ⓢ Gap Stations

San Diego Fire Dept. Map 18 Coverage With Gap Stations South View

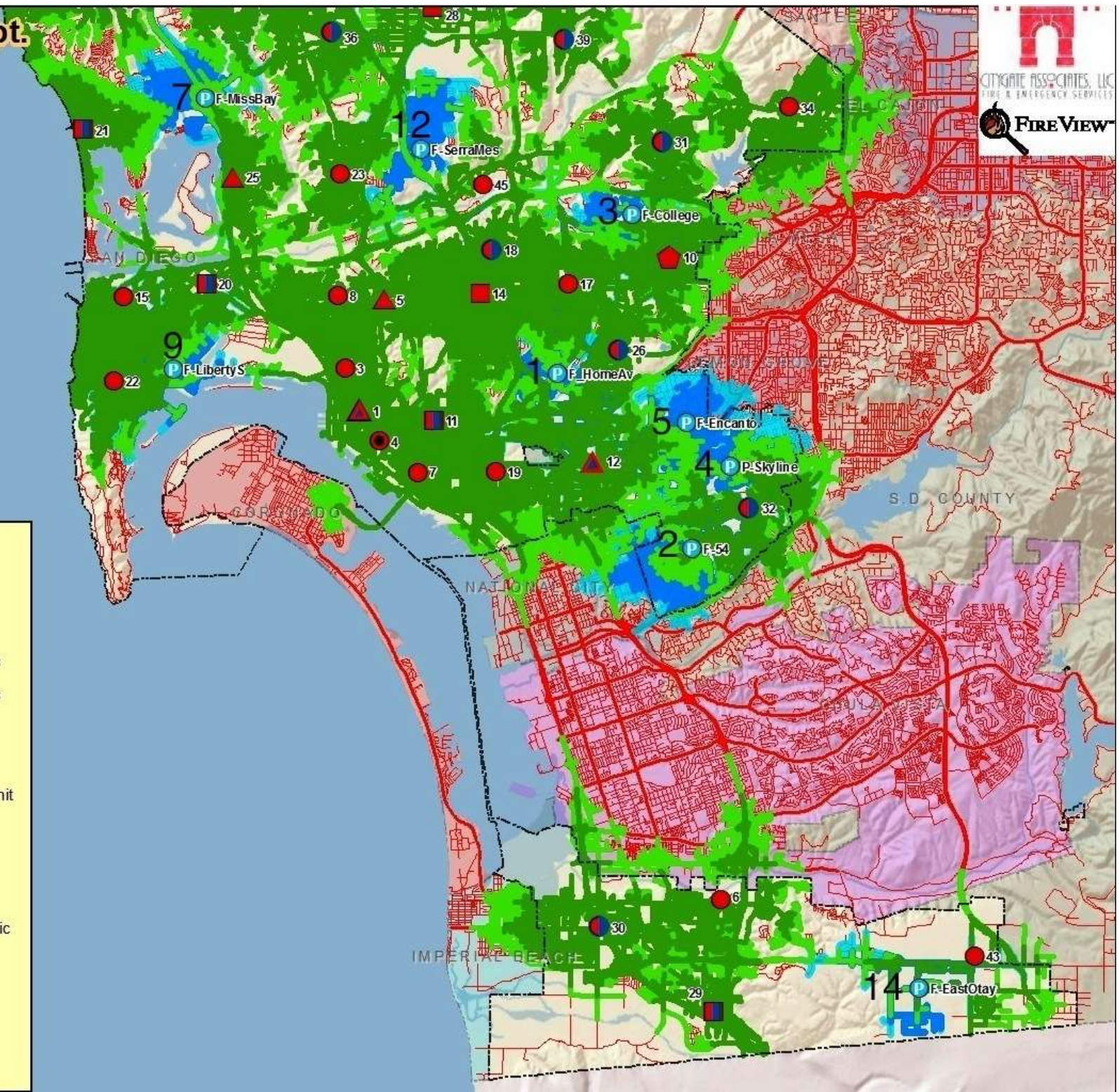


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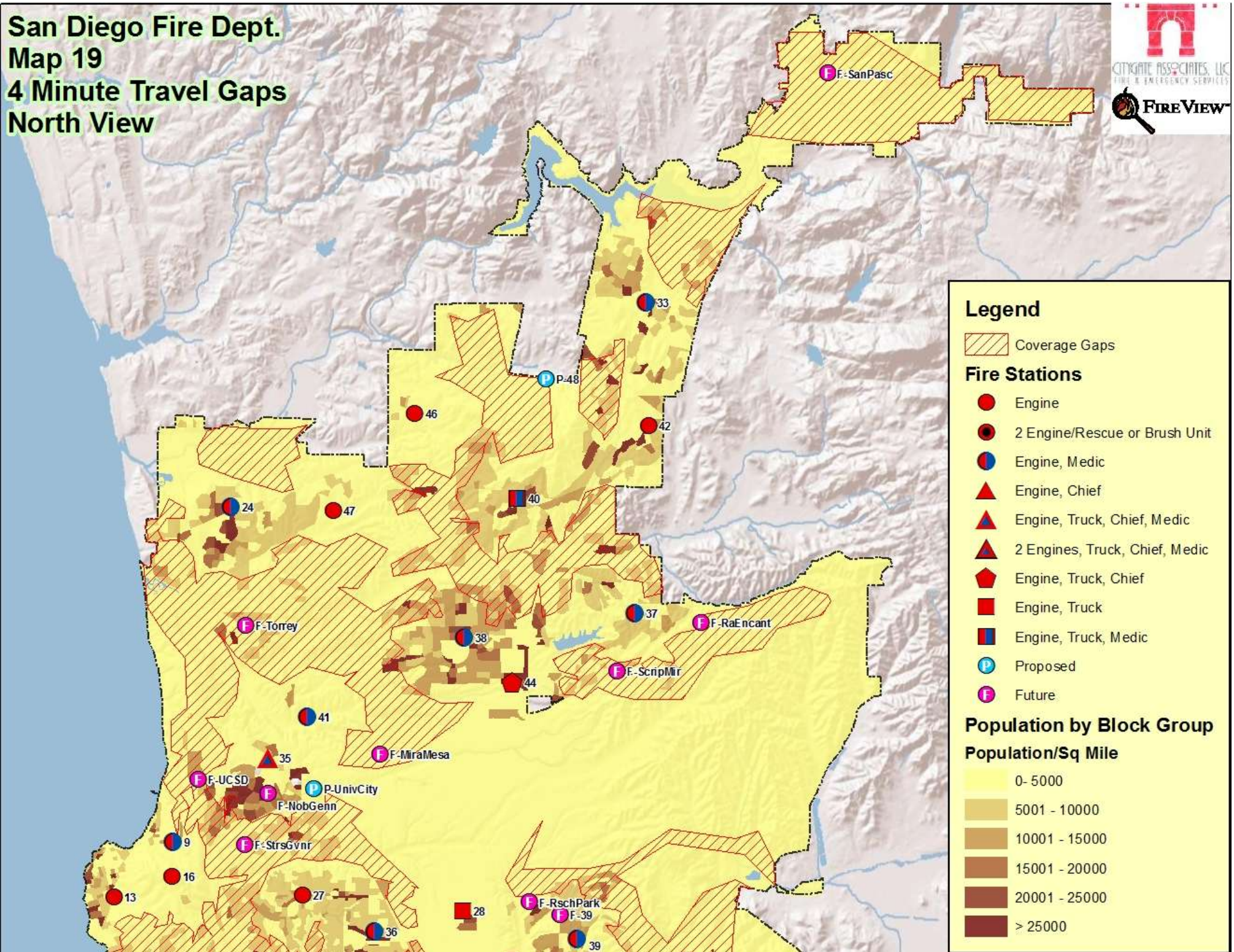
- 4 Minute Travel Engines
- 5 Minute Travel Engines
- 4 Minute Travel Gap Stations
- 5 Minute Travel Gap Stations

Fire Stations

- Engine
- 2 Engine/Rescue or Brush Unit
- Engine, Medic
- ▲ Engine, Chief
- ▲ Engine, Truck, Chief, Medic
- ▲ 2 Engines, Truck, Chief, Medic
- ◆ Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- P Gap Stations



San Diego Fire Dept. Map 19 4 Minute Travel Gaps North View



San Diego Fire Dept. Map 19 4 Minute Travel Gaps Central West View



Legend

Coverage Gaps

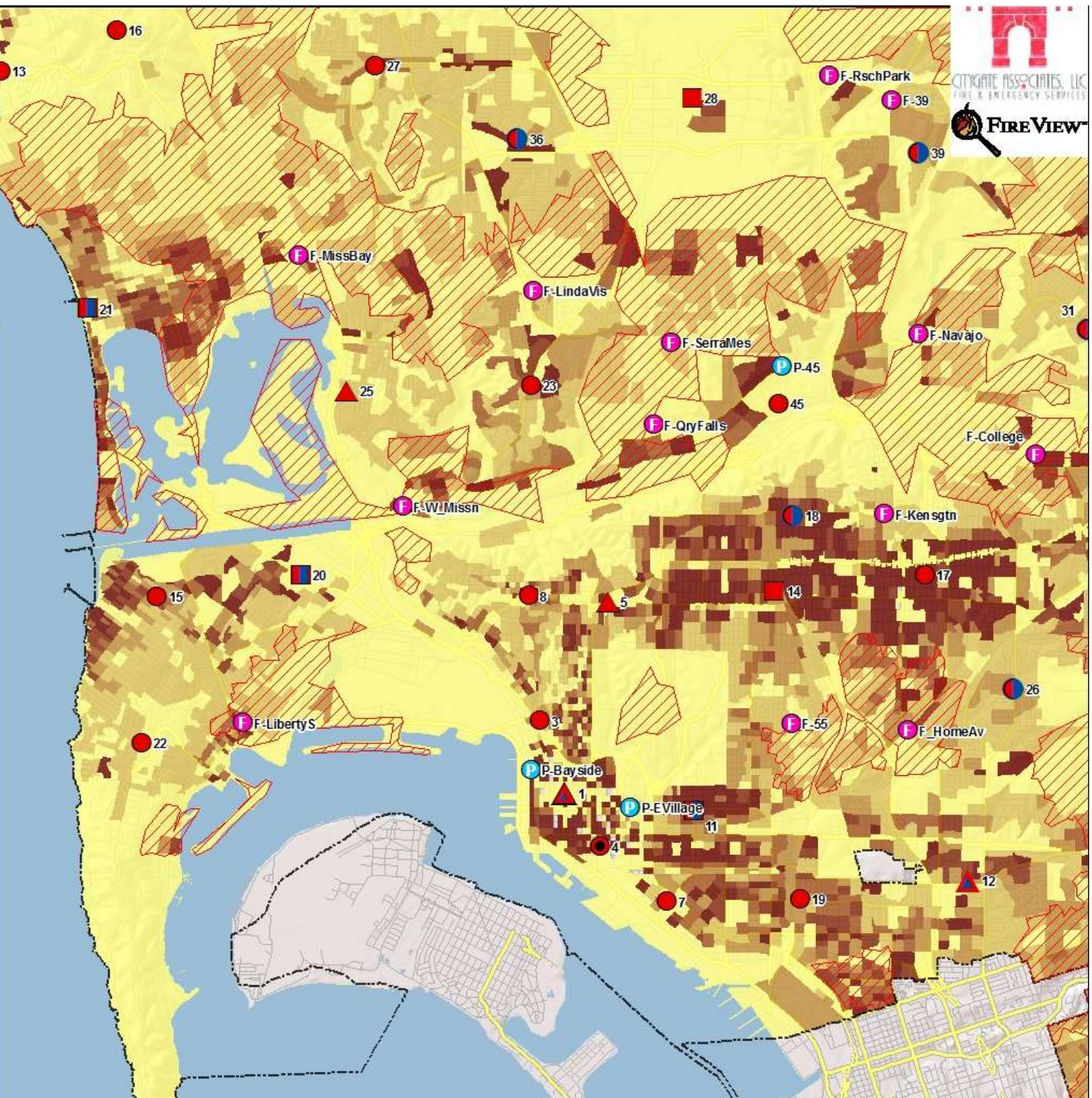
Fire Stations

- Engine
- 2 Engine/Rescue or Brush Unit
- Engine, Medic
- Engine, Chief
- Engine, Truck, Chief, Medic
- 2 Engines, Truck, Chief, Medic
- Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- Proposed
- Future

Population by Block Group

Population/Sq Mile

- 0- 5000
- 5001 - 10000
- 10001 - 15000
- 15001 - 20000
- 20001 - 25000
- > 25000



San Diego Fire Dept. Map 19 4 Minute Travel Gaps Central East View



Legend

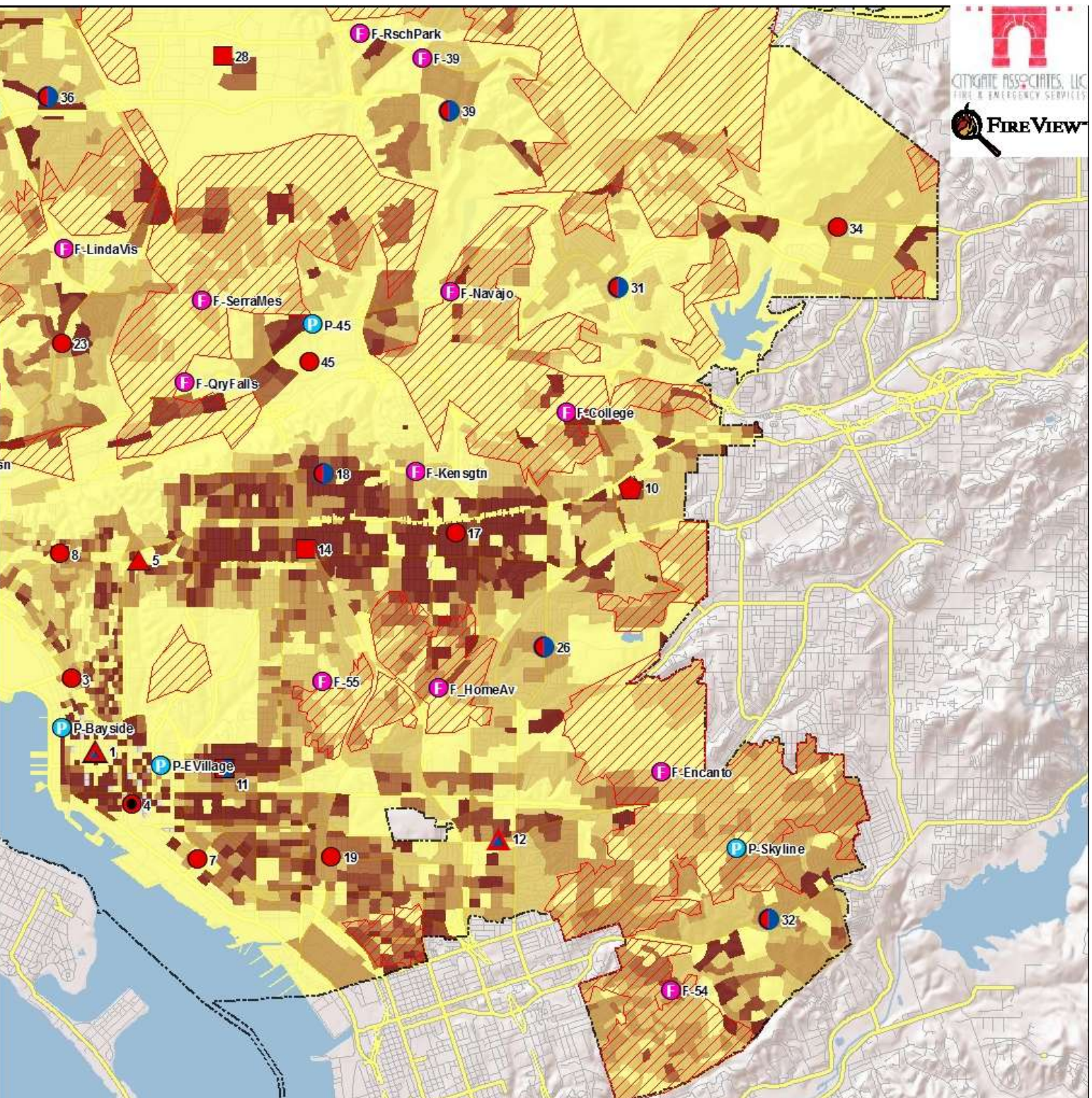
Coverage Gaps

Fire Stations

- Engine
- 2 Engine/Rescue or Brush Unit
- Engine, Medic
- Engine, Chief
- Engine, Truck, Chief, Medic
- 2 Engines, Truck, Chief, Medic
- Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- Proposed
- Future

Population by Block Group
Population/Sq Mile

- 0- 5000
- 5001 - 10000
- 10001 - 15000
- 15001 - 20000
- 20001 - 25000
- > 25000



San Diego Fire Dept. Map 19 4 Minute Travel Gaps Border View



Legend

Coverage Gaps

Fire Stations

- Engine
- 2 Engine/Rescue or Brush Unit
- Engine, Medic
- Engine, Chief
- Engine, Truck, Chief, Medic
- 2 Engines, Truck, Chief, Medic
- Engine, Truck, Chief
- Engine, Truck
- Engine, Truck, Medic
- Proposed
- Future

Population by Block Group
Population/Sq Mile

- 0- 5000
- 5001 - 10000
- 10001 - 15000
- 15001 - 20000
- 20001 - 25000
- > 25000

