

COMPLETE STREETS THOROUGHFARE ASSEMBLIES SMARTCODE MODULE

PREPARED BY DUANY PLATER-ZYBERK & CO. WITH CHESTER (RICK) CHELLMAN, P.E.;
RICHARD A. HALL, P.E.; PETER SWIFT, P.E.

Only connect!

E.M. Forster

TABLE 4C: COMPLETE STREETS THOROUGHFARE ASSEMBLIES

Thoroughfares are assembled from the Vehicular Lane elements that appear in Table 3A and Table 3B and the Public Frontages of Table 4A and Table 4B. Twenty-two typical assemblies are presented here for convenience. These may be added to the base SmartCode for the local calibration, and others may be created as necessary using the same template. They replicate closely the thoroughfare standards of municipal public works manuals.

If Thoroughfare Assemblies are used, one or more of the Vehicular Lane or Public Frontage Tables may be removed. Calibrators should take care that provisions listed on the Table 4C Assemblies do not conflict with provisions on the remaining Vehicular Lane or Public Frontage Tables, or with Section 3.7.

The thoroughfares here are drawn to scale with the supporting information below them. The identification key gives the thoroughfare type followed by the right-of-way width, followed by the pavement width, and in some instances followed by specialized transportation capability. They are organized in the Module first by type, then by ROW width, then by Vehicular Lanes overall width.

If a regulating plan uses two thoroughfares with the same name, e.g., if the calibration has two street sections called ST-50-26 with different parking arrangements, they should be given different names to avoid confusion. If one of them is a yield street it could be called ST-50-26-Y.

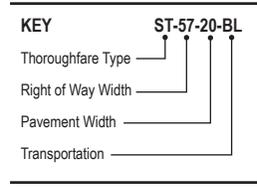
There are several one-way streets included in this Module. They should be used rarely, especially if blocks are long, as they are less connective than two-way streets. If low traffic volumes are expected, consider using the two-way yield movement instead. Specifying a one-way thoroughfare and later allowing it to become two-way with verified usage is a method for securing more appropriately narrow thoroughfares than some jurisdictions will allow initially.

Because walkability is so important to good urbanism, any paths or trails intended for runners and long-distance walkers should not be paved with concrete. Asphalt has less impact on the joints and feet.

For Bicycle Thoroughfares and facilities, please see the Bicycling Module at www.transect.org.

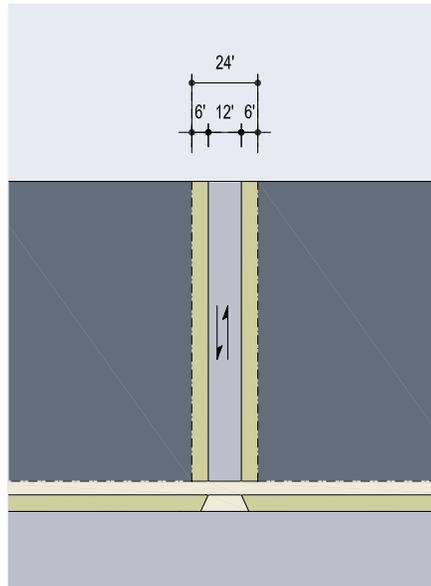
SMARTCODE MODULETABLE 4C THOROUGHFARE ASSEMBLIES

Municipality



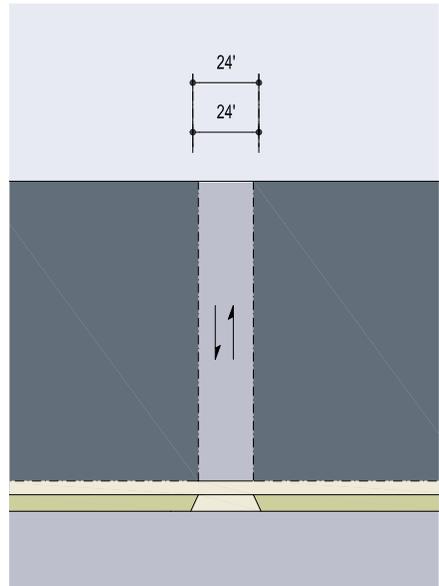
THOROUGHFARE TYPES

Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



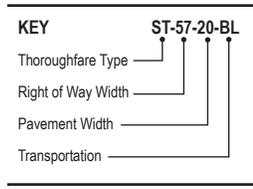
RL-24-12

Thoroughfare Type	Rear Lane
Transect Zone Assignment	T3
Right-of-Way Width	24 feet
Pavement Width	12 feet
Movement	Yield Movement
Design Speed	10 MPH
Pedestrian Crossing Time	3.5 seconds
Traffic Lanes	n/a
Parking Lanes	None
Curb Radius	Taper
Walkway Type	None
Planter Type	None
Curb Type	Inverted Crown
Landscape Type	None
Transportation Provision	None



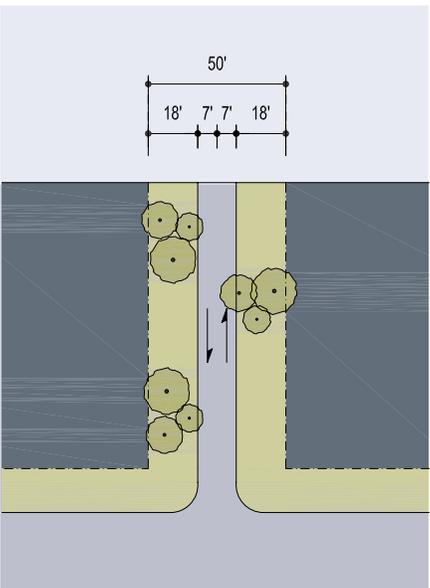
RA-24-24

Thoroughfare Type	Rear Alley
Transect Zone Assignment	T4, T5, T6
Right-of-Way Width	24 feet
Pavement Width	24 feet
Movement	Slow Movement
Design Speed	10 MPH
Pedestrian Crossing Time	7 seconds
Traffic Lanes	n/a
Parking Lanes	None
Curb Radius	Taper
Walkway Type	None
Planter Type	None
Curb Type	Inverted Crown
Landscape Type	None
Transportation Provision	None



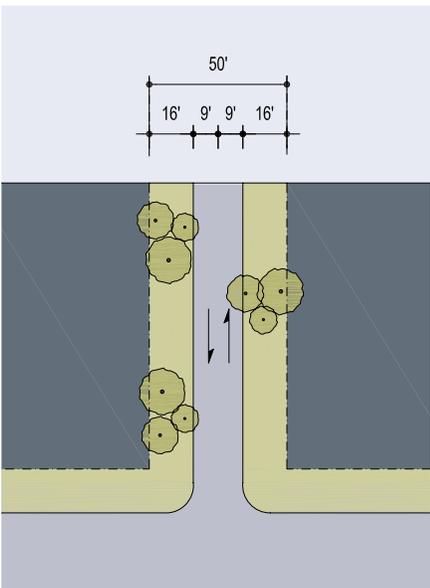
THOROUGHFARE TYPES

Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



RD-50-14

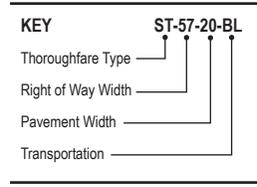
Thoroughfare Type	Road
Transect Zone Assignment	T1, T2, T3
Right-of-Way Width	50 feet
Pavement Width	14 feet
Movement	Yield Movement
Design Speed	15 MPH
Pedestrian Crossing Time	4 seconds
Traffic Lanes	2 lanes
Parking Lanes	None
Curb Radius	25 feet
Walkway Type	Path optional
Planter Type	Continuous Swale
Curb Type	Swale
Landscape Type	Trees clustered
Transportation Provision	see Bicycling Module



RD-50-18

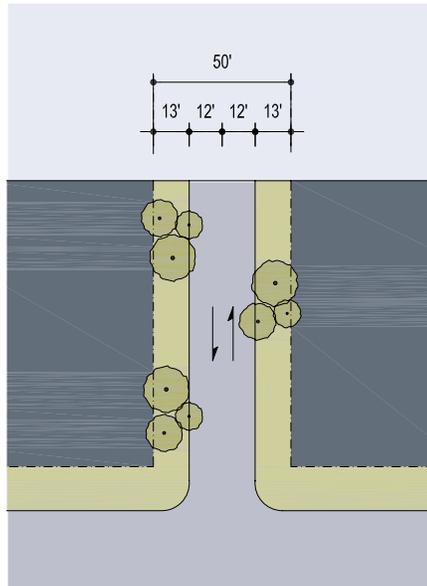
Thoroughfare Type	Road
Transect Zone Assignment	T1, T2, T3
Right-of-Way Width	50 feet
Pavement Width	18 feet
Movement	Slow Movement
Design Speed	15 MPH
Pedestrian Crossing Time	5.1 seconds
Traffic Lanes	2 lanes
Parking Lanes	None
Curb Radius	25 feet
Walkway Type	Path optional
Planter Type	Continuous Swale
Curb Type	Swale
Landscape Type	Trees clustered
Transportation Provision	see Bicycling Module

Thoroughfare Type	Road
Transect Zone Assignment	T1, T2, T3
Right-of-Way Width	50 feet
Pavement Width	14 feet
Movement	Yield Movement
Design Speed	15 MPH
Pedestrian Crossing Time	4 seconds
Traffic Lanes	2 lanes
Parking Lanes	None
Curb Radius	25 feet
Walkway Type	Path optional
Planter Type	Continuous Swale
Curb Type	Swale
Landscape Type	Trees clustered
Transportation Provision	see Bicycling Module



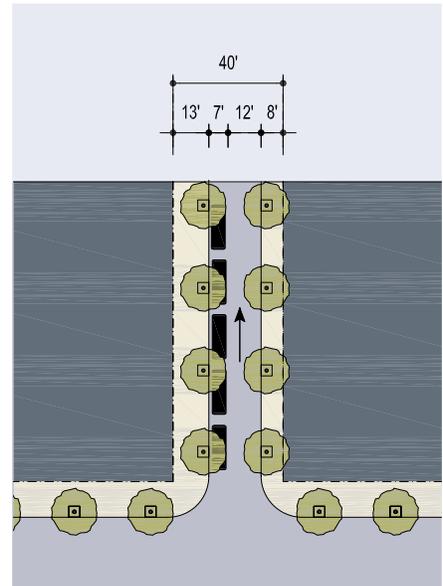
THOROUGHFARE TYPES

Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



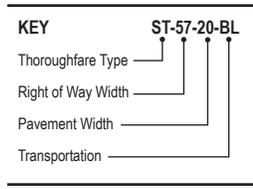
RD-50-24

Thoroughfare Type	Road
Transect Zone Assignment	T1, T2, T3
Right-of-Way Width	50 feet
Pavement Width	24 feet
Movement	Slow Movement
Design Speed	20 MPH
Pedestrian Crossing Time	6.8 seconds
Traffic Lanes	2 lanes
Parking Lanes	None
Curb Radius	25 feet
Walkway Type	Path optional
Planter Type	Continuous Swale
Curb Type	Swale
Landscape Type	Trees clustered
Transportation Provision	see Bicycling Module



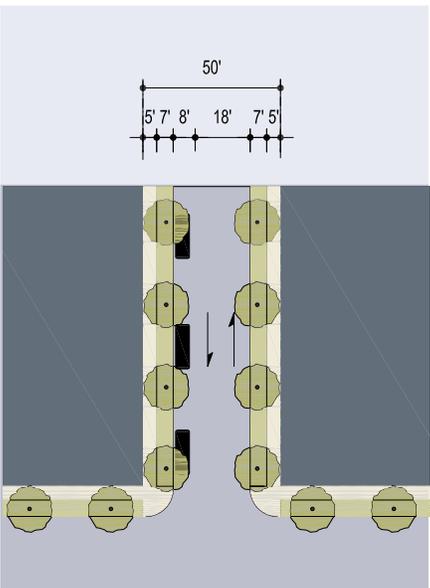
ST-40-19

Thoroughfare Type	Street
Transect Zone Assignment	T5, T6
Right-of-Way Width	40 feet
Pavement Width	19 feet
Movement	Slow Movement
Design Speed	20 MPH
Pedestrian Crossing Time	5.4 seconds
Traffic Lanes	1 lane
Parking Lanes	One side @ 7 feet marked
Curb Radius	15 feet
Walkway Type	13/8 foot Sidewalk
Planter Type	4x4" tree well
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Bicycling Module



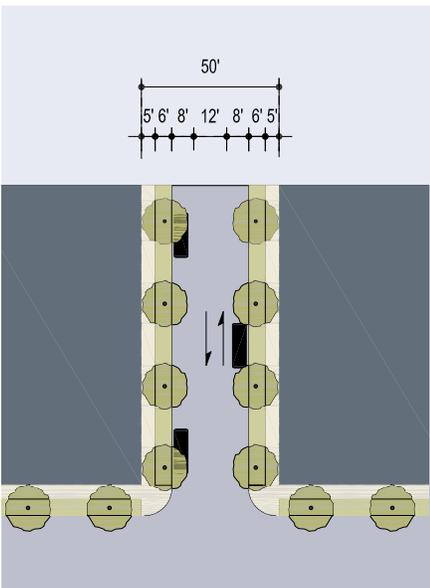
THOROUGHFARE TYPES

Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



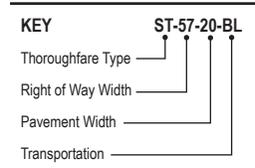
ST-50-26

Thoroughfare Type	Street
Transect Zone Assignment	T4, T5, T6
Right-of-Way Width	50 feet
Pavement Width	26 feet
Movement	Free Movement
Design Speed	20 MPH
Pedestrian Crossing Time	7.4 seconds
Traffic Lanes	2 lanes
Parking Lanes	One side @ 8 feet marked
Curb Radius	10 feet
Walkway Type	5 foot Sidewalk
Planter Type	7 foot continuous Planter
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Cycling Module



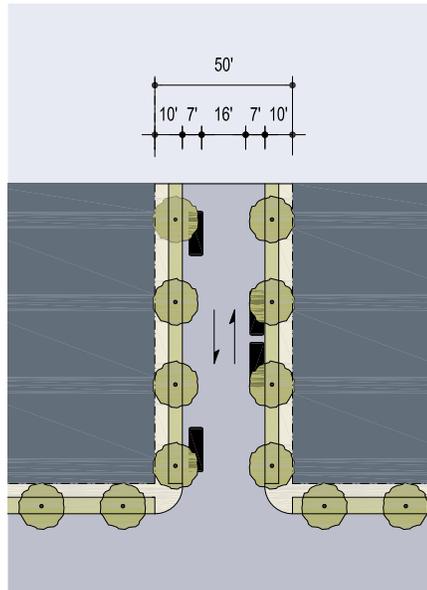
ST-50-28

Thoroughfare Type	Street
Transect Zone Assignment	T4, T5, T6
Right-of-Way Width	50 feet
Pavement Width	28 feet
Movement	Yield Movement
Design Speed	20 MPH
Pedestrian Crossing Time	7.6 seconds
Traffic Lanes	2 lane
Parking Lanes	Both sides @ 8 feet unmarked
Curb Radius	10 feet
Walkway Type	5 foot Sidewalk
Planter Type	6 foot continuous Planter
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Cycling Module

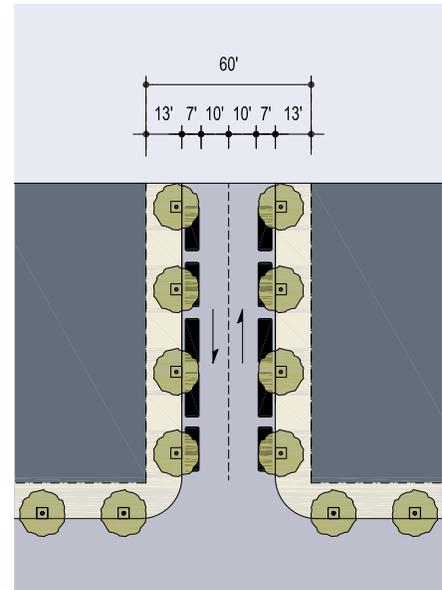


THOROUGHFARE TYPES

Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



ST-50-30

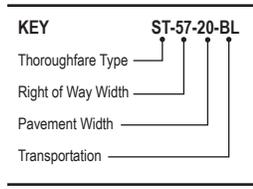


ST-60-34

Thoroughfare Type
Transect Zone Assignment
Right-of-Way Width
Pavement Width
Movement
Design Speed
Pedestrian Crossing Time
Traffic Lanes
Parking Lanes
Curb Radius
Walkway Type
Planter Type
Curb Type
Landscape Type
Transportation Provision

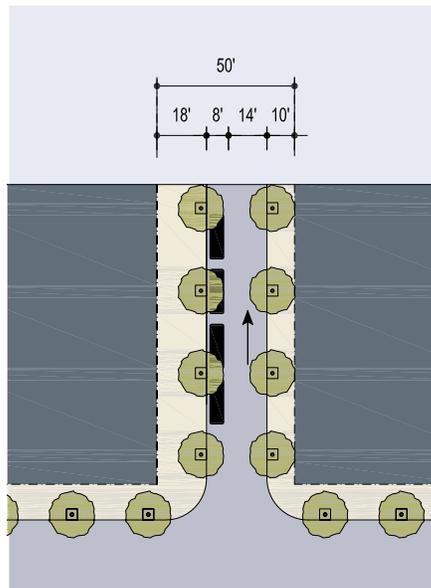
Street
T3, T4
50 feet
30 feet
Slow Movement
20 MPH
8.5 seconds
2 lanes
Both sides @ 7 feet unmarked
10 feet
5 foot Sidewalk
5 foot continuous Planter
Curb
Trees at 30' o.c. Avg.
see Bicycling Module

Street
T3, T4, T5
60 feet
34 feet
Slow Movement
20 MPH
9.7 seconds
2 lanes
Both Sides @ 7 feet marked
15 feet
6 foot Sidewalk
7 foot continuous Planter
Curb
Trees at 30' o.c. Avg.
see Bicycling Module



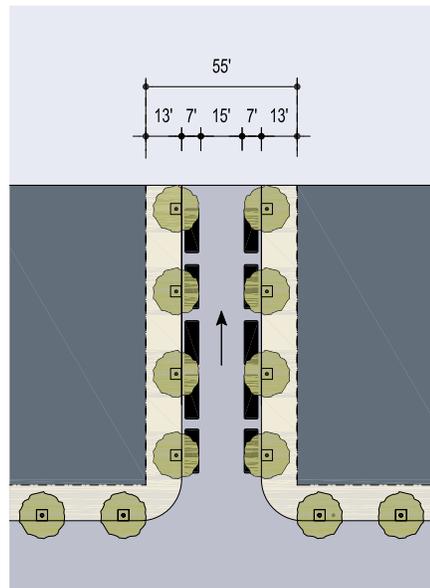
THOROUGHFARE TYPES

Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



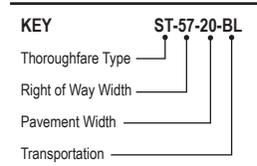
CS-50-22

Thoroughfare Type	Commercial Street
Transect Zone Assignment	T5, T6
Right-of-Way Width	50 feet
Pavement Width	22 feet
Movement	Slow Movement
Design Speed	20 MPH
Pedestrian Crossing Time	6.2 seconds
Traffic Lanes	1 lane
Parking Lanes	One side @ 8 feet marked
Curb Radius	15 feet
Walkway Type	18/10 foot Sidewalk
Planter Type	4x4" tree well
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Cycling Module



CS-55-29

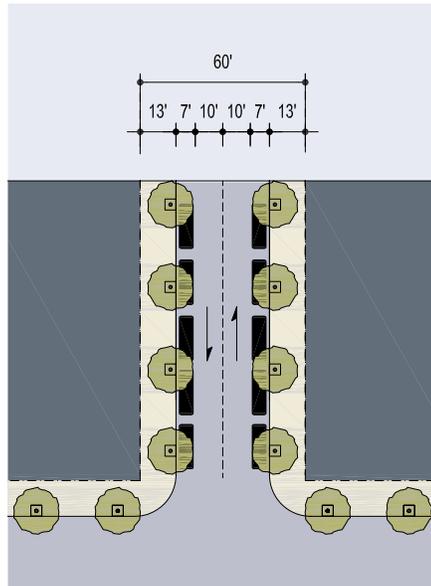
Thoroughfare Type	Commercial Street
Transect Zone Assignment	T5, T6
Right-of-Way Width	55 feet
Pavement Width	29 feet
Movement	Slow Movement
Design Speed	20 MPH
Pedestrian Crossing Time	8.2 seconds
Traffic Lanes	1 lane
Parking Lanes	Both sides @ 7 feet marked
Curb Radius	15 feet
Walkway Type	13 foot Sidewalk
Planter Type	4x4" tree well
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Cycling Module



THOROUGHFARE TYPES

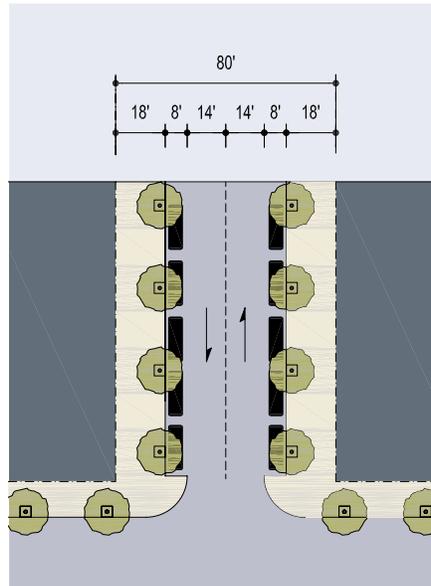
Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR

Thoroughfare Type	
Transect Zone Assignment	
Right-of-Way Width	
Pavement Width	
Movement	
Design Speed	
Pedestrian Crossing Time	
Traffic Lanes	
Parking Lanes	
Curb Radius	
Walkway Type	
Planter Type	
Curb Type	
Landscape Type	
Transportation Provision	



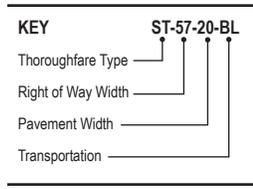
CS-60-34

Commercial Street
T5, T6
60 feet
34 feet
Slow Movement
20 MPH
9.7 seconds
2 lanes
Both sides @ 7 feet marked
10 feet
13 foot Sidewalk
4x4" tree well
Curb
Trees at 30' o.c. Avg.
see Bicycling Module



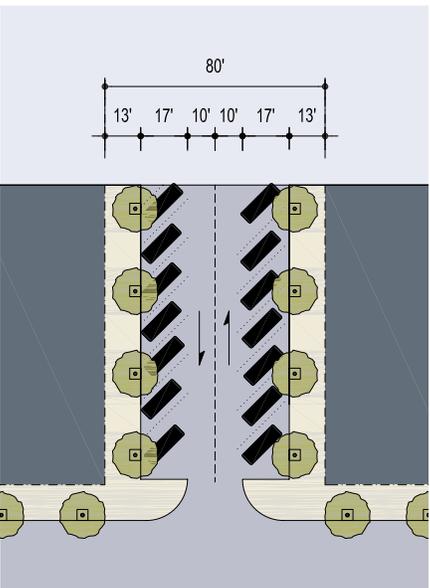
CS-80-44

Commercial Street
T5, T6
80 feet
44 feet
Free Movement
25 MPH
8 seconds at corners
2 lanes
Both sides @ 8 feet marked
10 feet
18 foot Sidewalk
4x4" tree well
Curb
Trees at 30' o.c. Avg.
see Bicycling Module

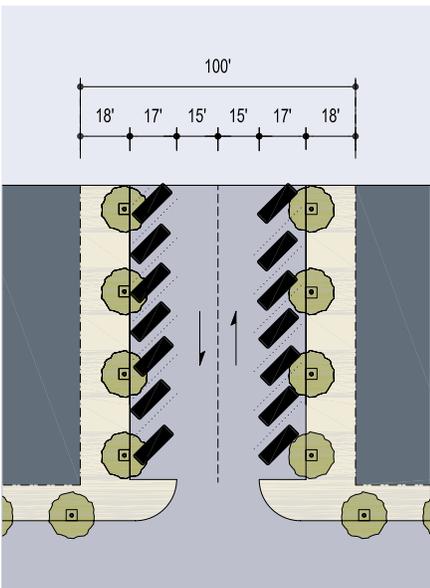


THOROUGHFARE TYPES

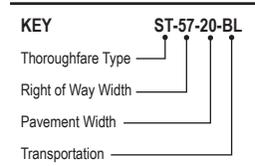
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Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



CS-80-54	
Thoroughfare Type	Commercial Street
Transect Zone Assignment	T5, T6
Right-of-Way Width	80 feet
Pavement Width	54 feet
Movement	Slow Movement
Design Speed	25 MPH
Pedestrian Crossing Time	5.7 seconds at corners
Traffic Lanes	2 lanes
Parking Lanes	Both sides angled @ 17 feet marked
Curb Radius	10 feet
Walkway Type	13 foot Sidewalk
Planter Type	4X4' tree well
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Cycling Module

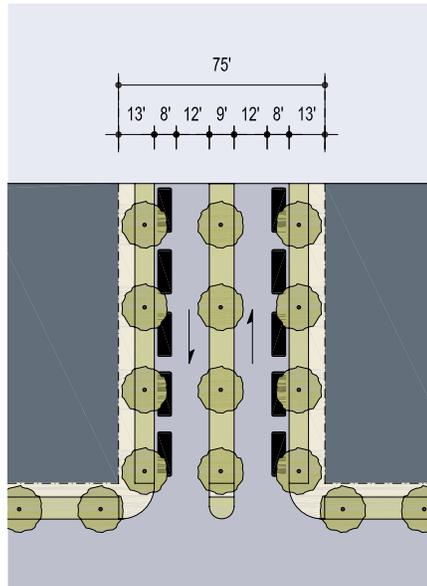


CS-100-64	
Thoroughfare Type	Commercial Street
Transect Zone Assignment	T5, T6
Right-of-Way Width	100 feet
Pavement Width	64 feet
Movement	Slow Movement
Design Speed	25 MPH
Pedestrian Crossing Time	8.5 seconds at corners
Traffic Lanes	2 lanes
Parking Lanes	Both sides angled @ 17 feet marked
Curb Radius	10 feet
Walkway Type	18 foot Sidewalk
Planter Type	4X4' tree well
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Cycling Module

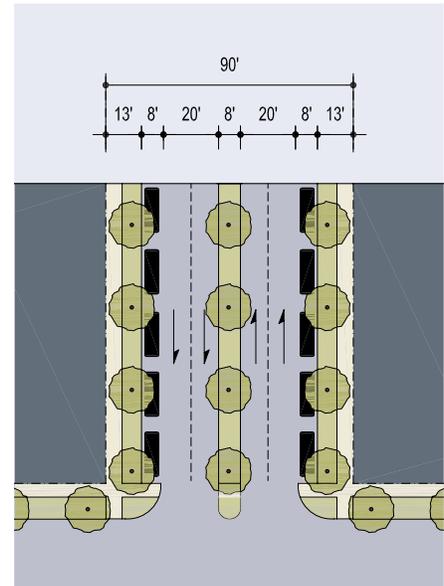


THOROUGHFARE TYPES

Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



AV-75-40

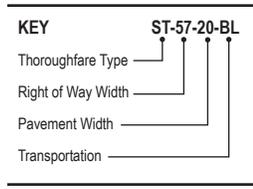


AV-90-56

Thoroughfare Type
Transect Zone Assignment
Right-of-Way Width
Pavement Width
Movement
Design Speed
Pedestrian Crossing Time
Traffic Lanes
Parking Lanes
Curb Radius
Walkway Type
Planter Type
Curb Type
Landscape Type
Transportation Provision

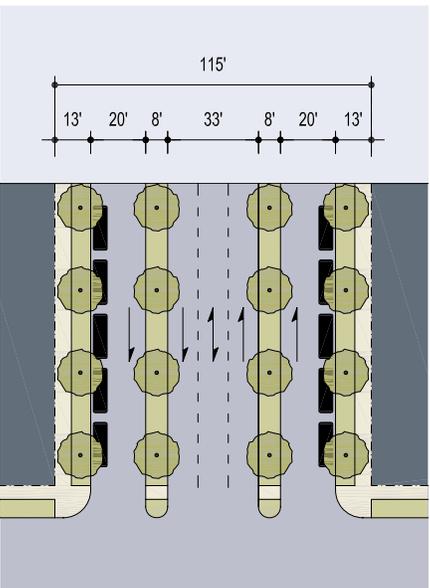
Avenue
T3, T4, T5
75 feet
40 feet total
Slow Movement
25 MPH
5.7 seconds - 5.7 seconds
2 lanes
Both sides @ 8 feet marked
10 feet
6 foot Sidewalk
7 foot continuous Planter
Curb or Swale
Trees at 30' o.c. Avg.
see Bicycling Module

Avenue
T3, T4, T5
90 feet
56 feet total
Slow Movement
25 MPH
5.7 seconds - 5.7 seconds at corners
4 lanes
Both sides @ 8 feet marked
10 feet
6 foot Sidewalk
7 foot continuous Planter
Curb or Swale
Trees at 30' o.c. Avg.
see Bicycling Module

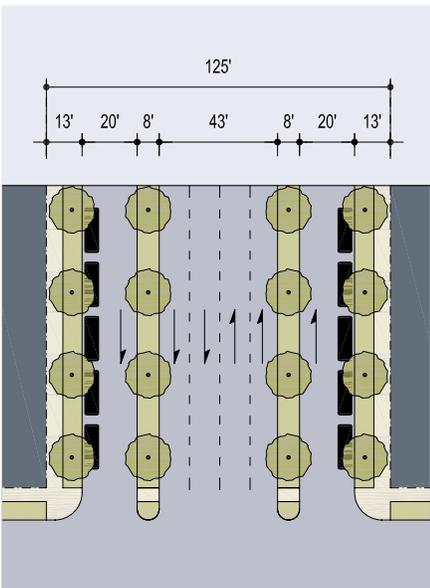


THOROUGHFARE TYPES

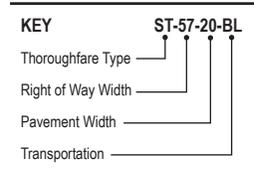
Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR



BV-115-33	
Thoroughfare Type	Boulevard
Transect Zone Assignment	T5, T6
Right-of-Way Width	115 feet
Pavement Width	20 feet - 33 feet - 20 feet
Movement	Free Movement (inner lanes)
Design Speed	35 MPH
Pedestrian Crossing Time	5.7 seconds - 9.4 seconds - 5.7 seconds
Traffic Lanes	3 lanes, one turning lane & two one-way slip roads
Parking Lanes	8 feet
Curb Radius	10 feet
Walkway Type	6 foot Sidewalk
Planter Type	7 foot continuous Planter
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Bicycling Module



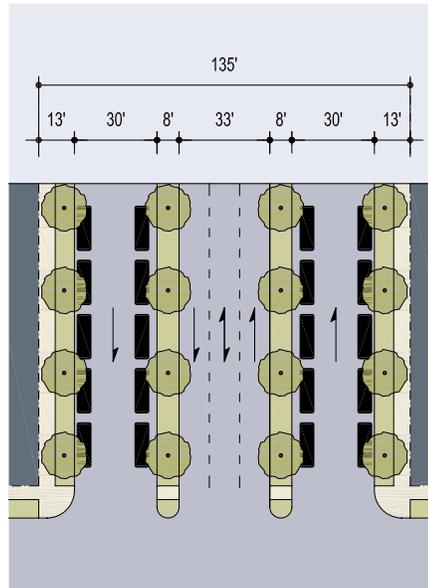
BV-125-43	
Thoroughfare Type	Boulevard
Transect Zone Assignment	T5, T6
Right-of-Way Width	125 feet
Pavement Width	20 feet - 43 feet - 20 feet
Movement	Free Movement (inner lanes)
Design Speed	35 MPH
Pedestrian Crossing Time	5.7 seconds - 12.2 seconds - 5.7 seconds
Traffic Lanes	4 lanes & two one-way slip roads
Parking Lanes	8 feet
Curb Radius	10 feet
Walkway Type	6 foot Sidewalk
Planter Type	7 foot continuous Planter
Curb Type	Curb
Landscape Type	Trees at 30' o.c. Avg.
Transportation Provision	see Bicycling Module



THOROUGHFARE TYPES

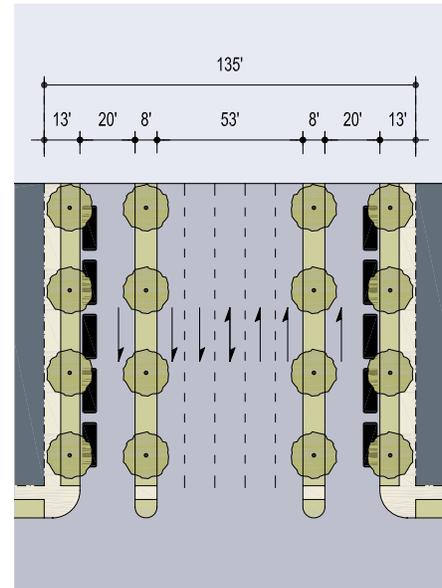
Highway:	HW
Boulevard:	BV
Avenue:	AV
Commercial Street:	CS
Drive:	DR
Street:	ST
Road:	RD
Rear Alley:	RA
Rear Lane:	RL
Bicycle Trail:	BT
Bicycle Lane:	BL
Bicycle Route:	BR
Path:	PT
Passage:	PS
Transit Route:	TR

Thoroughfare Type
Transect Zone Assignment
Right-of-Way Width
Pavement Width
Movement
Design Speed
Pedestrian Crossing Time
Traffic Lanes
Parking Lanes
Curb Radius
Walkway Type
Planter Type
Curb Type
Landscape Type
Transportation Provision



BV-135-33

Boulevard
T5, T6
135 feet
30 feet - 33 feet - 30 feet
Free Movement
35 MPH
8.5 seconds - 9.4 seconds - 8.5 seconds
3 lanes, one turning lane & two one-way slip roads
8 feet
10 feet
6 foot Sidewalk
7 foot continuous Planter
Curb
Trees at 30' o.c. Avg.
see Bicycling Module



BV-135-53

Boulevard
T5, T6
135 feet
20 feet - 53 feet - 20 feet
Free Movement
35 MPH
5.7 seconds - 15.1 seconds - 5.7 seconds
5 Lanes, one turning lane & two one-way slip roads
8 feet
10 feet
6 foot Sidewalk
7 foot continuous Planter
Curb
Trees at 30' o.c. Avg.
see Bicycling Module