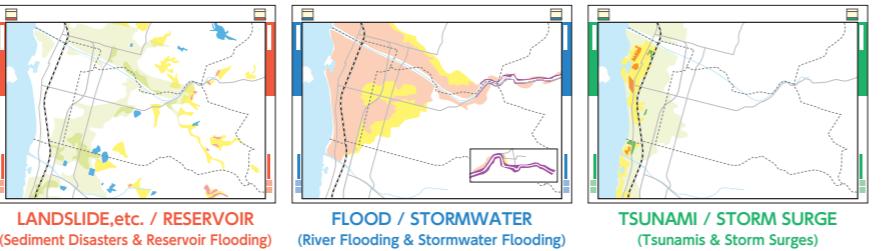


How to Read the Hazard Map

Color Coding by Category

Three types of hazard maps are included: **RED** for Sediment Disasters & Reservoir Flooding, **BLUE** for River Flooding & Stormwater Flooding, and **GREEN** for Tsunamis & Storm Surges. **BLUE/GREEN** maps are not included for zones where river/stormwater flood damage is not expected, or there is no tsunami/storm surge danger.



Projected Scenarios for Each Category

SEDIMENT DISASTER (Landslide, etc.)

(Sediment Disaster Hazard Zones / Sediment Disaster Special Hazard Zones)

Boundaries of hazard zones designated by Ehime Prefecture in accordance with the Sediment Disaster Prevention Act are indicated for each category of sediment disaster. Sediment Disaster Hazard Zones (Yellow Zones) indicate areas where the lives and wellbeing of residents, etc. may be at risk in the event of a disaster such as the collapse of steeply sloped ground. Sediment Disaster Special Hazard Zones (Red Zones) indicate considerable risk to the lives and wellbeing of residents, etc. with buildings facing risks of damage or destruction.

RESERVOIR FLOODING

(Key Reservoirs for Disaster Management / Expected Reservoir Flooding Inundation Zones)

Expected inundation zones in the event of reservoir collapse during times of flooding are overlaid, indicating zone boundaries and maximum inundation depths for key reservoirs for disaster management in 299 locations.

* To see inundation depths for specific reservoirs, check the Reservoir Hazard Map.

RIVER FLOOD

(Expected Flood Inundation Zones / Maximum Inundation Depth)

Expected flood inundation zones in the event of rainfall at maximum expected levels (once-per-1,000-years levels) as announced by river administrators in accordance with the Flood Control Act are overlaid, indicating zone boundaries and maximum inundation depths.

(Expl.) **Expected Flood Zone with Destruction of Houses, etc.**

Indicates zones where ordinary buildings are at high risk of being destroyed, swept away, etc. in the event embankments in the vicinity collapse due to an occurrence of the maximum expected level of rainfall. These zones fall into two categories: those due to direct risks of flowing flood waters, and those due to the erosion of riverbanks.

- Expected Flood Zone with Destruction of Houses, etc. (Due to Flood Flow) ... Zones where wooden houses are at risk of being swept away/destroyed due to flowing flood water
- Expected Flood Zone with Destruction of Houses, etc. (Due to Riverbank Erosion) ... Zones where houses are at risk of being swept away/destroyed due to flood-induced erosion of riverbanks

* To see detailed inundation depths and durations of inundation for specific rivers, check the Matsuyama Flood Hazard Map.

STORMWATER FLOODING

(Expected Stormwater Inundation Zones / Maximum Inundation Depth)

Expected stormwater inundation zones in the event of an occurrence of heavy rain with total rainfall of 299 mm and maximum hourly rainfall of 83.5 mm are shown, indicating zone boundaries and maximum inundation depths.

* To see detailed inundation depths, check the Matsuyama Stormwater Hazard Map.

TSUNAMI DAMAGE

(Tsunami Hazard Zones / Maximum Inundation Depth [Standard Water Level])

Tsunami hazard zones designated by Ehime Prefecture in accordance with the Act on Regional Development for Tsunami Disaster Prevention are shown, indicating zone boundaries and standard water levels.

STORM SURGE DAMAGE

(Expected Storm Surge Inundation Zones)

Boundaries of expected inundation zones in the event of storm surges of the largest expected potential level as announced by Ehime Prefecture in accordance with the Flood Control Act are indicated.

* To see detailed inundation depths and durations of inundation, check the Matsuyama Storm Surge Hazard Map.

• Projections Based on Largest Recorded Typhoons

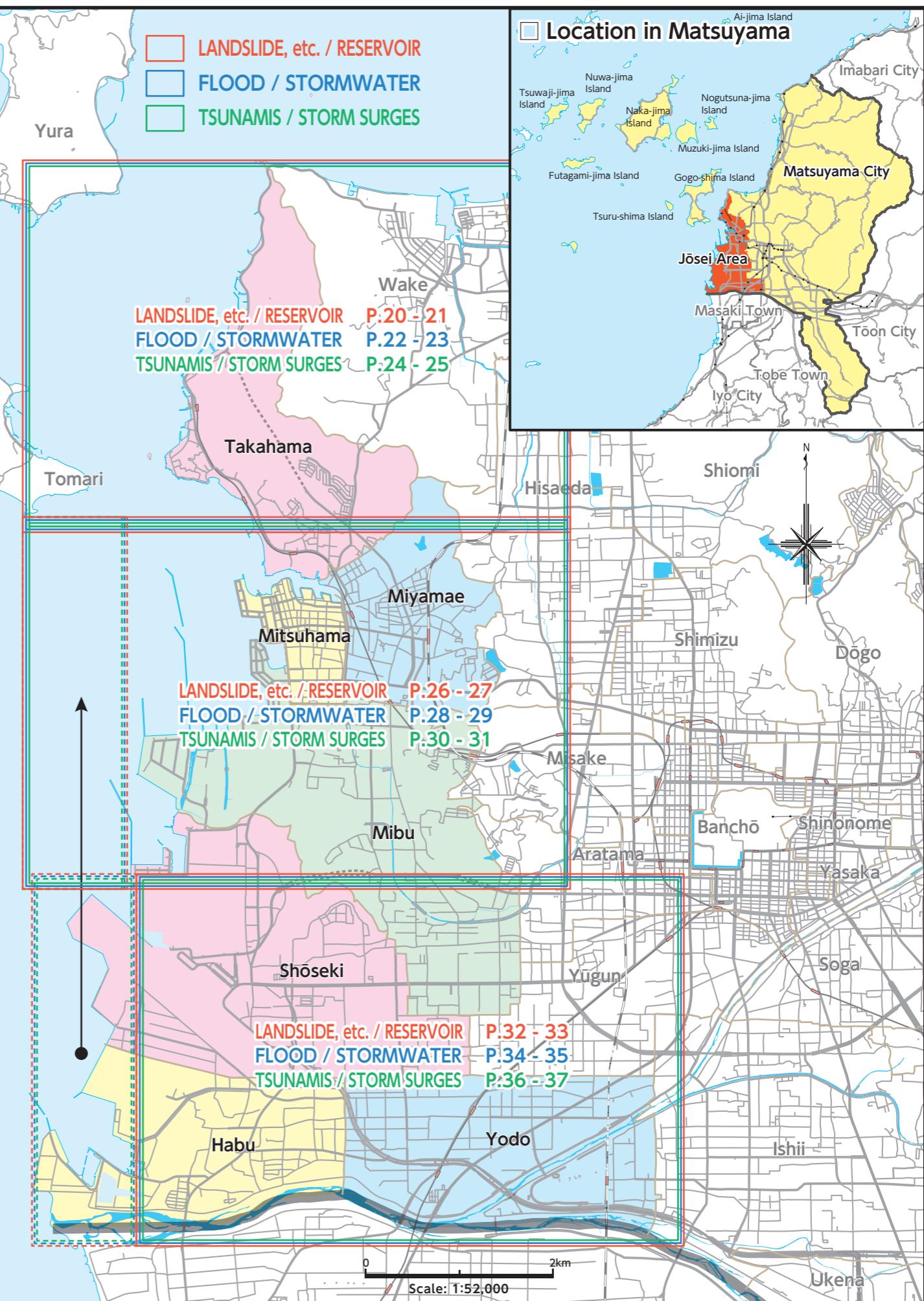
- Central pressure 900 hPa(Equiv. to 1934 Muroto Typhoon)
- Radius & velocity Radius of maximum cyclostormic wind: 75 km* (Equiv. to 1959 Isewan Typhoon/Typhoon Vera)
- Velocity: 75 km/h(Equiv. to 1959 Isewan Typhoon/Typhoon Vera)

* Radius of maximum cyclostormic wind: Distance from the center of a typhoon to the point near the typhoon with the highest wind speed

While this Hazard Map has been created based on the latest digital map data (basic national geospatial data) published by the Geospatial Information Authority of Japan (GSI), please be aware that certain locations may not correspond with actual current conditions due to changes over time. With regard to hazard information for sediment disasters, etc., the map is meant to serve as an approximate general reference only, and is by no means representative of exact or specific limits of the boundary, scope, etc. of hazard zones, etc. Please also note that listed disaster management information, including evacuation shelters, etc. is current as of Jan. 2022, and may be subject to change in the future. Please refrain from reproducing or reprinting this publication's cover, contents, or maps without the consent of Matsuyama City.

INDEX MAP

[Mibu / Shōseki / Habu / Miyamae / Mitsuhamana / Takahama / Yodo]





 Designated Emergency Evacuation Site*	 City Hall / Branch Office	 Police Station Kōban / Chūza-sho
 Designated Evacuation Shelter *	 Fire Station / Branch	 Emergency Medical Facility
 Welfare Evacuation Shelter	 Civilian Firefighters' Pump Storage	 Emergency Broadcast System (Announcement / Siren)

This legend provides key symbols for the map:

- Emergency Helicopter Landing-pad**: A blue square with a white helicopter icon.
- Emergency Transportation Route**: A thick red line.
- National Road**: A blue shield-shaped route marker.
- Prefectural Road**: A blue circle with a white number 19.
- Underground Shopping Center / Underpass**: A red exclamation mark inside a yellow triangle.
- Major Evacuation Route**: A dashed green line.
- Bank / Shinkin Bank**: A blue circle with a white yen symbol.
- Post Office**: A blue circle with a white post office icon.
- Payphone (outdoors)**: A blue telephone receiver icon.
- Fire Station**: A blue fire truck icon.
- Intersection Name**: A blue rectangle.
- Shrine**: A blue torii gate icon.
- Temple**: A blue chrysanthemum icon.

(Sediment Disaster Hazard Zones / Sediment Disaster Special Hazard Zones)	
	Hazard zone (steep slope)
	Hazard zone (debris flow)
	Hazard zone (landslide) (Not applicable)
	Extreme hazard zone (steep slope)
	Extreme hazard zone (debris flow)

(Caution Required Reservoirs / Expected Reservoir Flooding Inundation Zones)

	Caution Required Reservoir	0.5m and over
	[Reservoir that could flood homes, etc. in case of a breach]	
	Under 0.5m	



ea

Takahama



Islands Area

Sediment Disasters / Reservoir Flooding

*   Shelters with these illustrations are
not suitable for evacuating from sediment disasters.



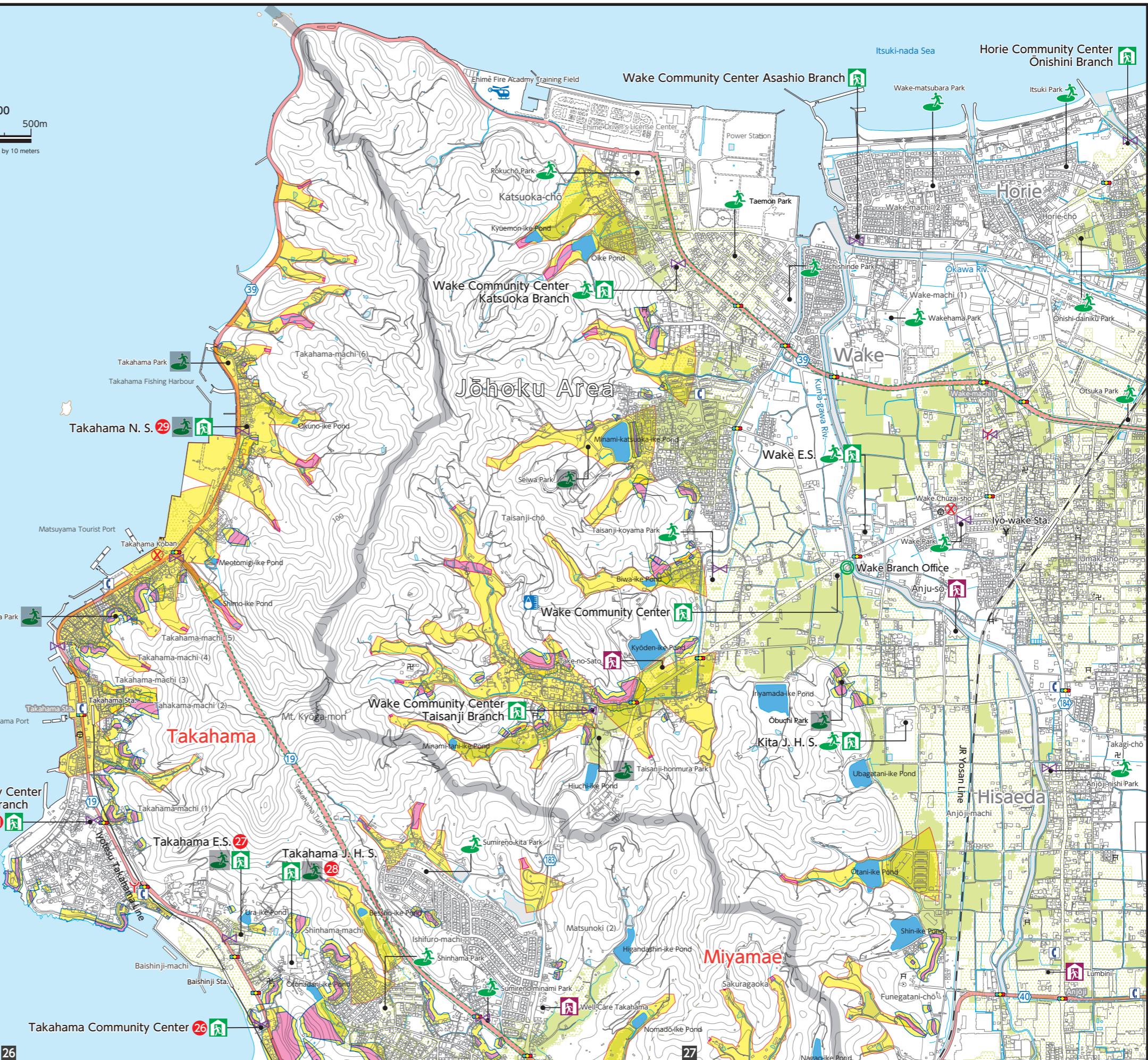
Yura

Omoto-ikeda

Tomari Fishing Harbour

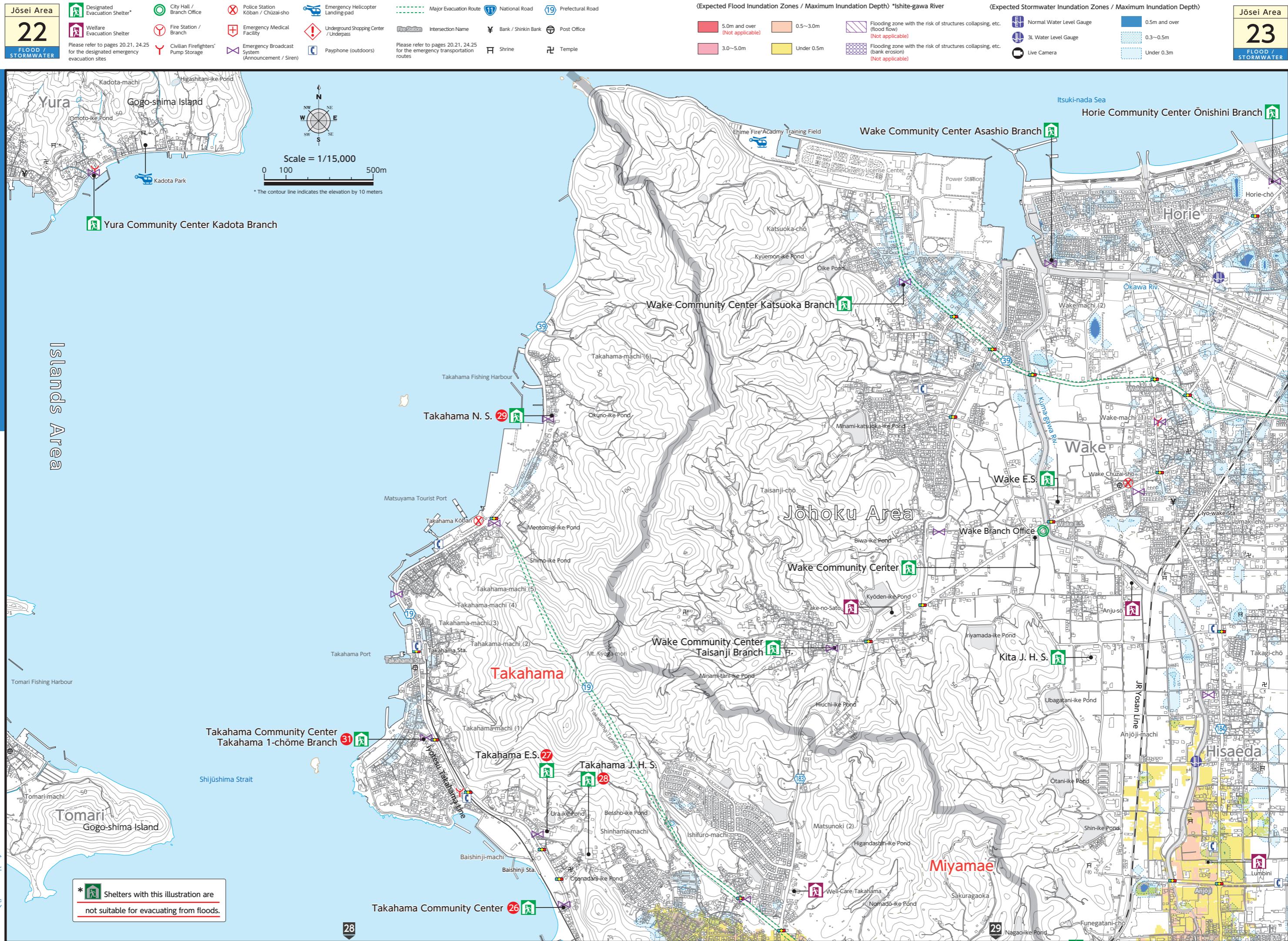
Tomari-machi

Islands Area



Miyamae / Takahama

Sediment Disasters / Reservoir Flooding



Jōsei Area
24
TSUNAMI / STORM SURGE

Designated Emergency Evacuation Site *
Designated Evacuation Shelter *
Welfare Evacuation Shelter
City Hall / Branch Office
Fire Station / Branch
Civilian Firefighters' Pump Storage
Police Station Kōban / Chūzai-sho
Emergency Medical Facility
Underground Shopping Center / Underpass
Emergency Broadcast System (Announcement / Siren)
Emergency Helicopter Landing-pad
Emergency Transportation Route
National Road
Prefectural Road
Major Evacuation Route
Bank / Shinkin Bank
Post Office
Payphone (outdoors)
FireStation
Intersection Name
Shrine
Temple

Emergency Transportation Route
National Road
Prefectural Road
Major Evacuation Route
Bank / Shinkin Bank
Post Office
Payphone (outdoors)
FireStation
Intersection Name
Shrine
Temple

〈Tsunami Hazard Zones / Maximum Inundation Depth [Standard Water Level]〉

5.0m~
4.0~5.0m
3.0~4.0m
2.0~3.0m
1.0~2.0m
0.3m
0.3~1.0m

〈Expected Storm Surge Inundation Zones〉

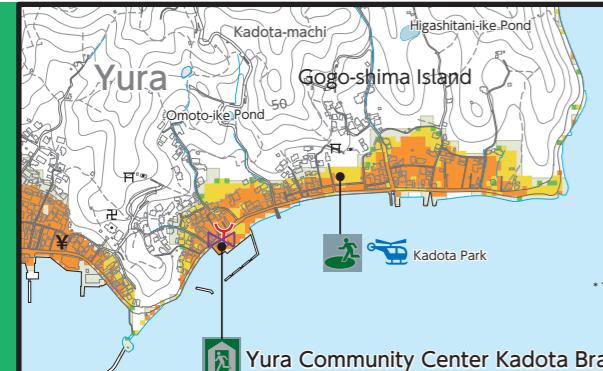
To see details on expected storm surge inundation zones, etc., check the Matsuyama Storm Surge Hazard Map.

Jōsei Area
25
TSUNAMI / STORM SURGE

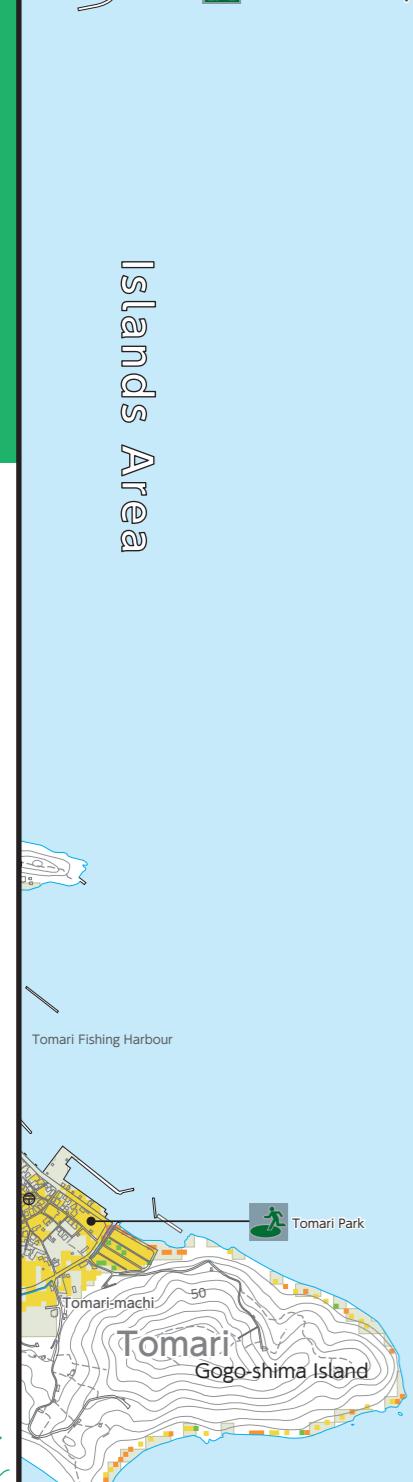
Designated Emergency Evacuation Site *
Designated Evacuation Shelter *
Welfare Evacuation Shelter
City Hall / Branch Office
Fire Station / Branch
Civilian Firefighters' Pump Storage
Police Station Kōban / Chūzai-sho
Emergency Medical Facility
Underground Shopping Center / Underpass
Emergency Broadcast System (Announcement / Siren)
Emergency Helicopter Landing-pad
Emergency Transportation Route
National Road
Prefectural Road
Major Evacuation Route
Bank / Shinkin Bank
Post Office
Payphone (outdoors)
FireStation
Intersection Name
Shrine
Temple

Miyamae / Takahama

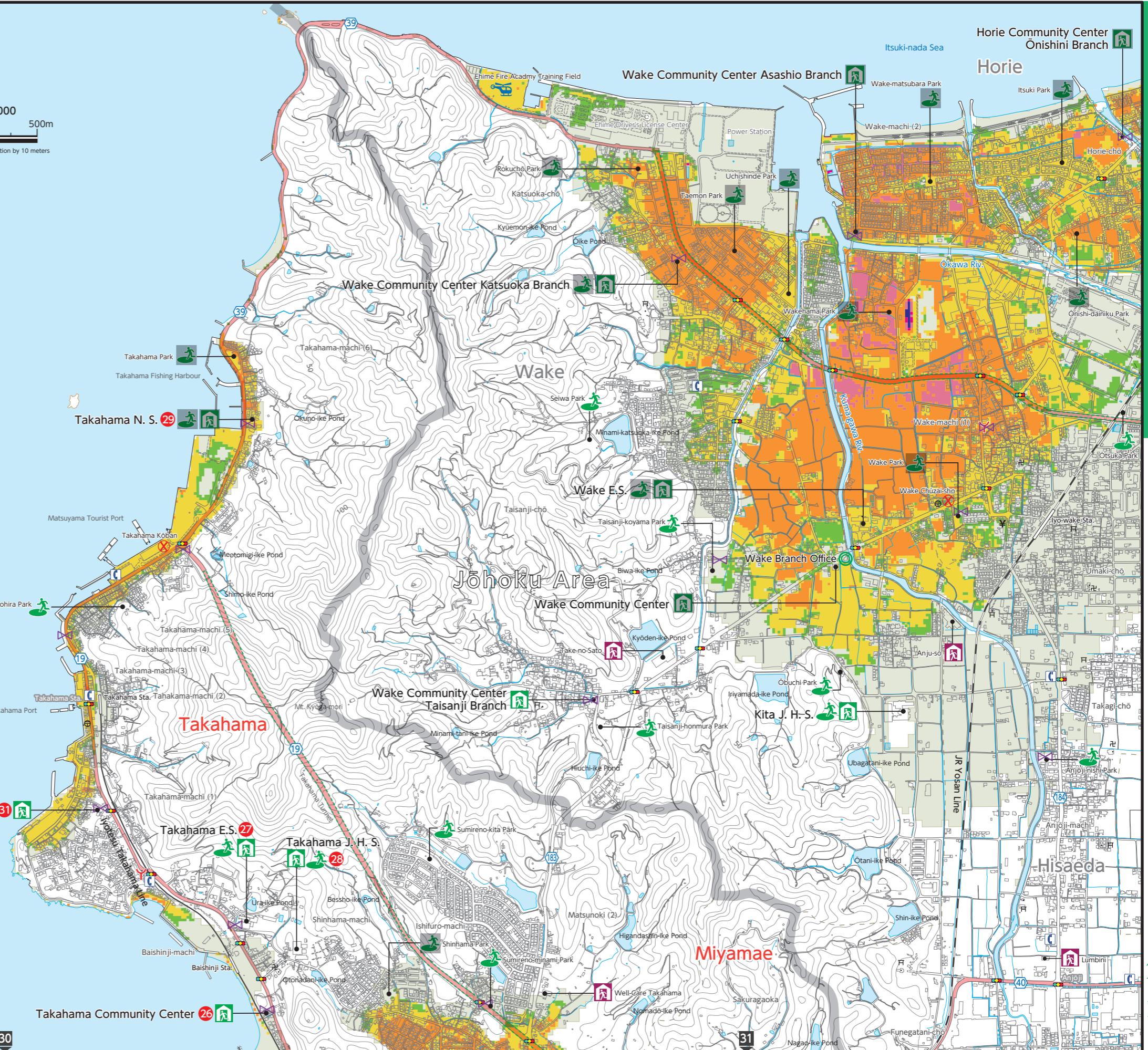
Takahama



Islands Area



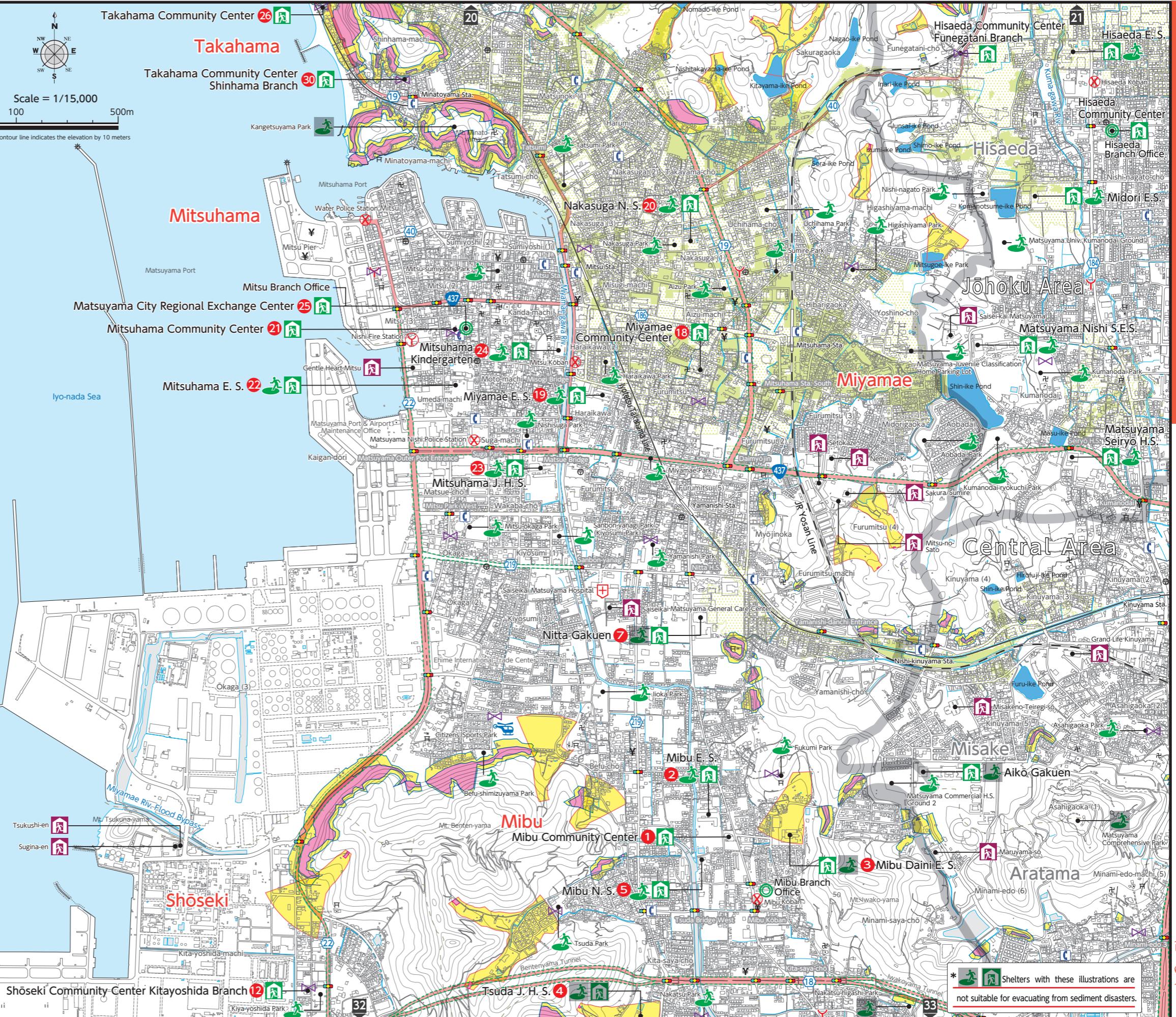
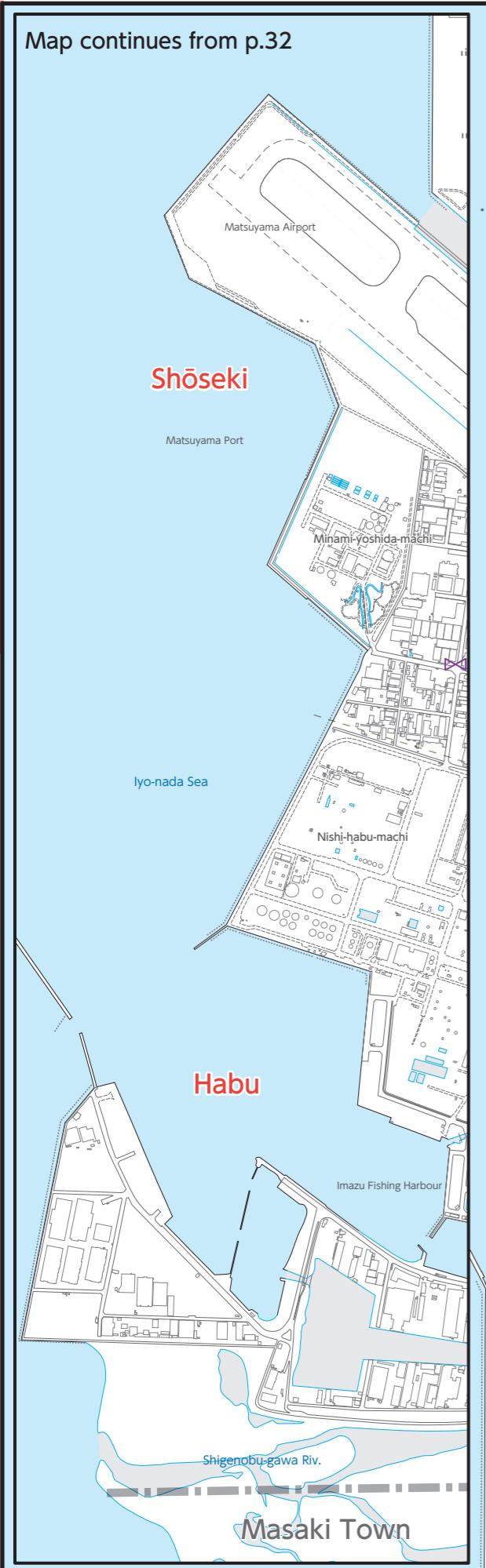
Tsunamis / Storm Surges



Tsunamis / Storm Surges

Mibu / Shōseki / Habu / Mitsuhamā / Takahama

Map continues from p.32



Jōsei Area
28
FLOOD / STORMWATER

Designated Evacuation Shelter*
Welfare Evacuation Shelter
Please refer to pages 26.27, 30.31 for the designated emergency evacuation sites
City Hall / Branch Office
Fire Station / Branch
Civilian Firefighters' Pump Storage
Police Station Koban / Chūzai-sho
Emergency Medical Facility
Emergency Broadcast System (Announcement / Siren)
Emergency Helicopter Landing-pad
Underground Shopping Center / Underpass
Payphone (outdoors)
Intersection Name
Bank / Shinkin Bank
Post Office
Fire Station
Shrine
Temple

Major Evacuation Route 11 National Road 19 Prefectural Road
Please refer to pages 26.27, 30.31 for the emergency transportation routes
Flooding zone with the risk of structures collapsing, etc. (flood flow) (Not applicable)
Flooding zone with the risk of structures collapsing, etc. (bank erosion)

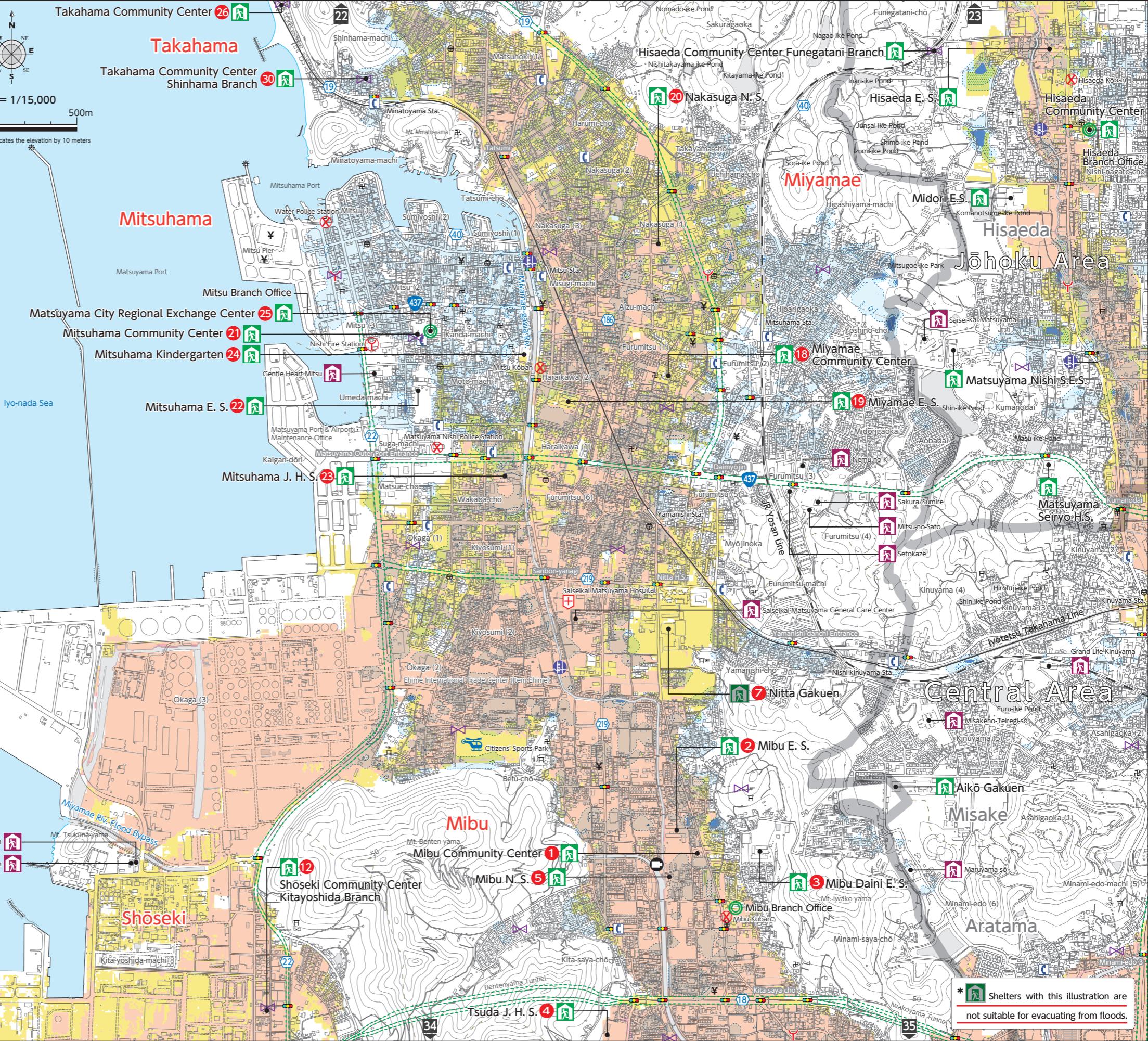
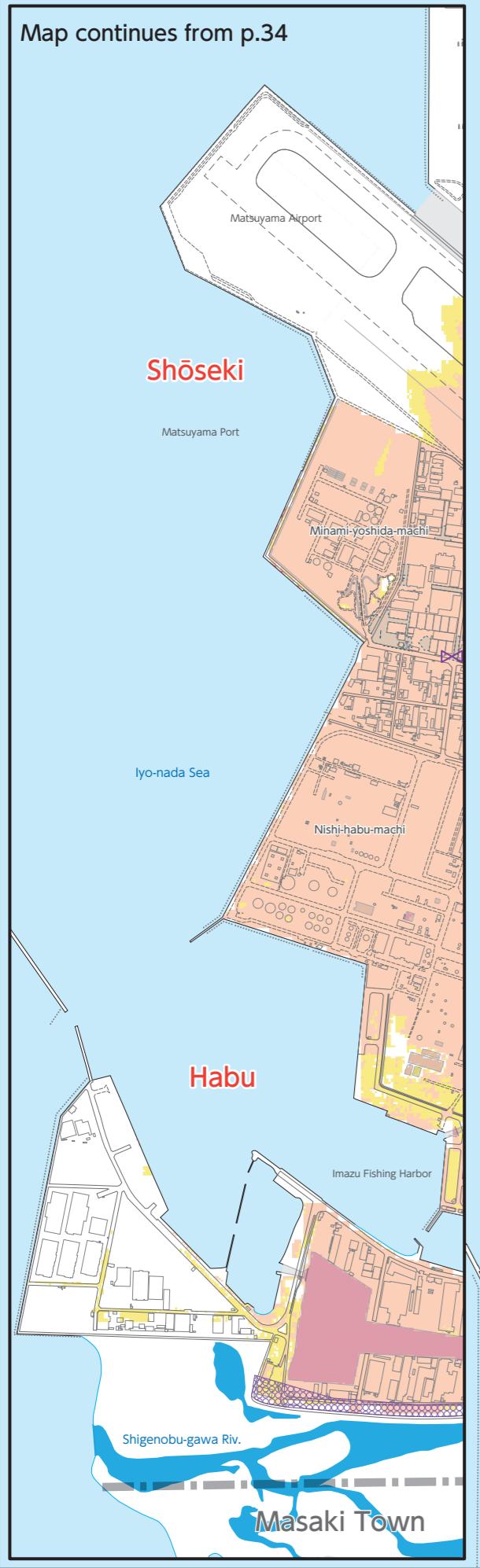
(Expected Flood Inundation Zones / Maximum Inundation Depth)
*Shigenobu-gawa River / Ishitae-gawa River
5.0m and over
0.5~3.0m
3.0~5.0m
Under 0.5m

(Expected Stormwater Inundation Zones / Maximum Inundation Depth)
Normal Water Level Gauge
3L Water Level Gauge
Live Camera
0.5m and over
0.3~0.5m
Under 0.3m

Jōsei Area
29
FLOOD / STORMWATER

Mibu / Shōseki / Habu / Mitsuhamama / Takahama

River Flooding / Stormwater Flooding



Jōsei Area
30
TSUNAMI / STORM SURGE

- Designated Emergency Evacuation Site *
- City Hall / Branch Office
- Police Station Kōban / Chūzai-sho
- Emergency Helicopter Landing pad
- Emergency Transportation Route
- National Road 11
- Prefectural Road 19
- Designated Evacuation Shelter *
- Fire Station / Branch
- Emergency Medical Facility
- Underground Shopping Center / Underpass
- Emergency Broadcast System (Announcement / Siren)
- Civilian Firefighters' Pump Storage
- Payphone (outdoors)
- Major Evacuation Route
- Bank / Shinkin Bank
- Post Office
- FireStation
- Intersection Name
- Shrine
- Temple

- Emergency Helicopter Landing pad
- Emergency Transportation Route
- National Road 11
- Prefectural Road 19
- Designated Evacuation Shelter *
- Fire Station / Branch
- Emergency Medical Facility
- Underground Shopping Center / Underpass
- Emergency Broadcast System (Announcement / Siren)
- Civilian Firefighters' Pump Storage
- Payphone (outdoors)
- Major Evacuation Route
- Bank / Shinkin Bank
- Post Office
- FireStation
- Intersection Name
- Shrine
- Temple

<Tsunami Hazard Zones / Maximum Inundation Depth [Standard Water Level]>

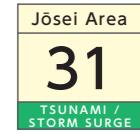
- | | | | |
|----------|----------|----------|------|
| 5.0m~ | 3.0~4.0m | 1.0~2.0m | 0.3m |
| 4.0~5.0m | 2.0~3.0m | 0.3~1.0m | |

<Expected Storm Surge Inundation Zones>

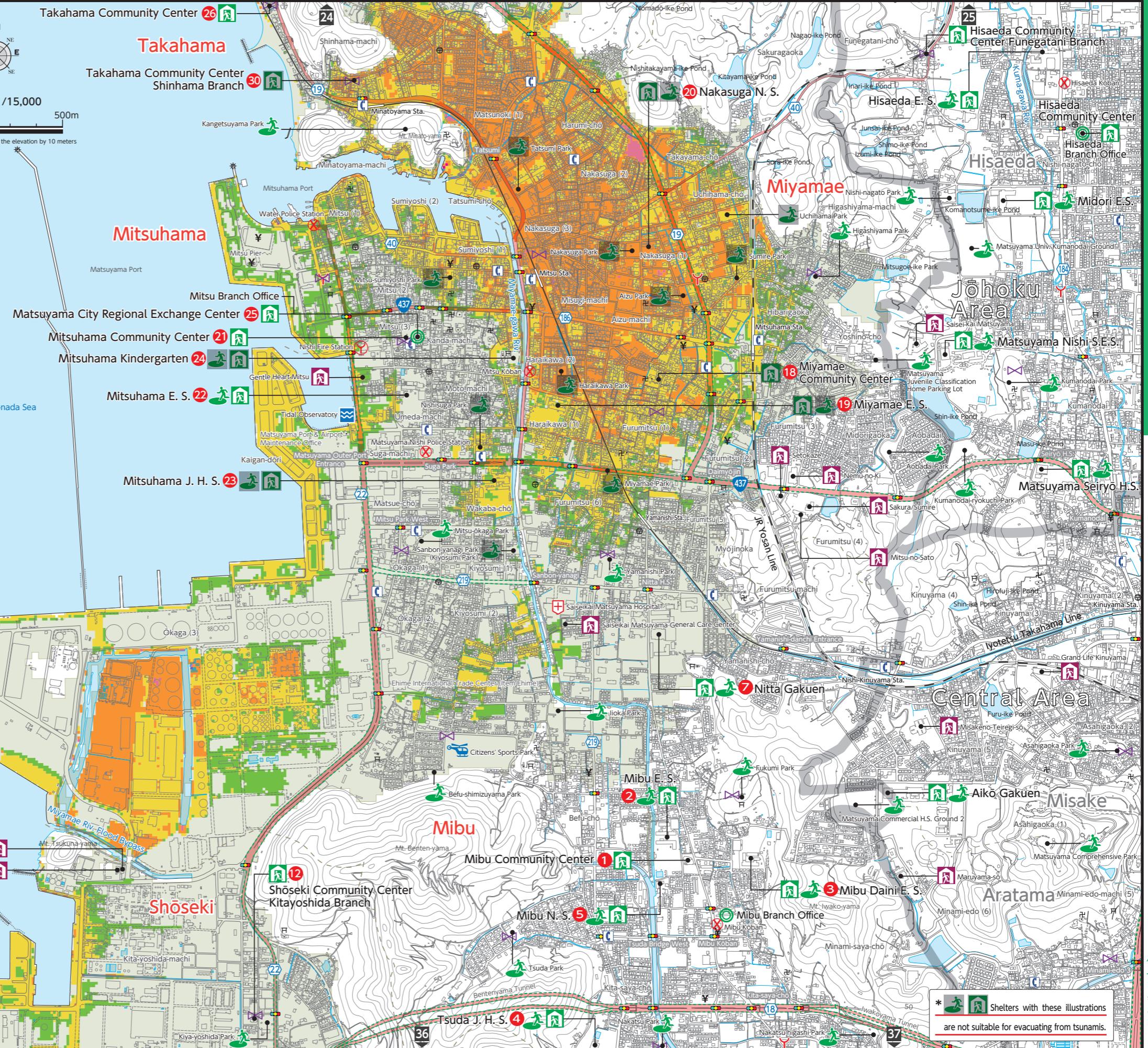
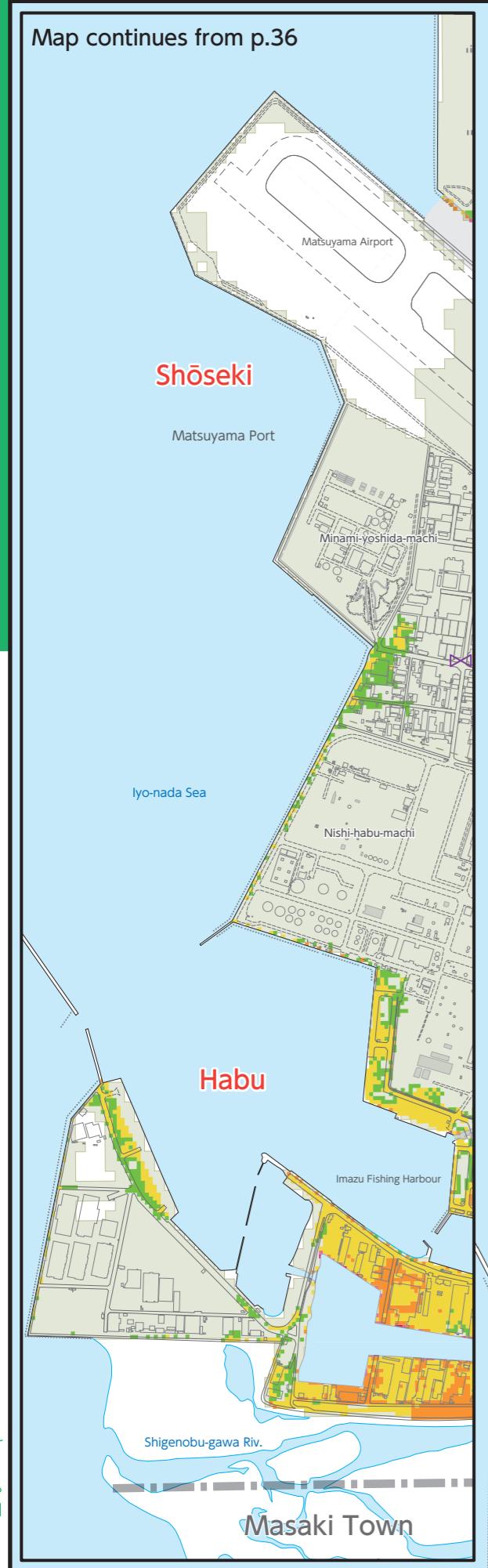
- | | | | |
|----------|----------|----------|------|
| 5.0m~ | 3.0~4.0m | 1.0~2.0m | 0.3m |
| 4.0~5.0m | 2.0~3.0m | 0.3~1.0m | |

To see details on expected storm surge inundation zones, etc., check the Matsuyama Storm Surge Hazard Map.

Jōsei Area
31
TSUNAMI / STORM SURGE



Map continues from p.36



Jōsei Area
32
LANDSLIDE,etc. / RESERVOIR

- Designated Emergency Evacuation Site *
- City Hall / Branch Office
- Police Station Koban / Chūzai-sho
- Emergency Helicopter Landing-pad
- Emergency Transportation Route
- National Road 11
- Prefectural Road 19
- Designated Evacuation Shelter *
- Fire Station / Branch
- Emergency Medical Facility
- Underground Shopping Center / Underpass
- Major Evacuation Route
- Bank / Shinkin Bank
- Post Office
- Welfare Evacuation Shelter
- Civilian Firefighters' Pump Storage
- Emergency Broadcast System (Announcement / Siren)
- Fire Station
- Intersection Name
- Shrine
- Temple

- Emergency Helicopter Landing-pad
- Emergency Transportation Route
- National Road 11
- Prefectural Road 19
- Major Evacuation Route
- Bank / Shinkin Bank
- Post Office
- Fire Station
- Intersection Name
- Shrine
- Temple

<Sediment Disaster Hazard Zones / Sediment Disaster Special Hazard Zones>

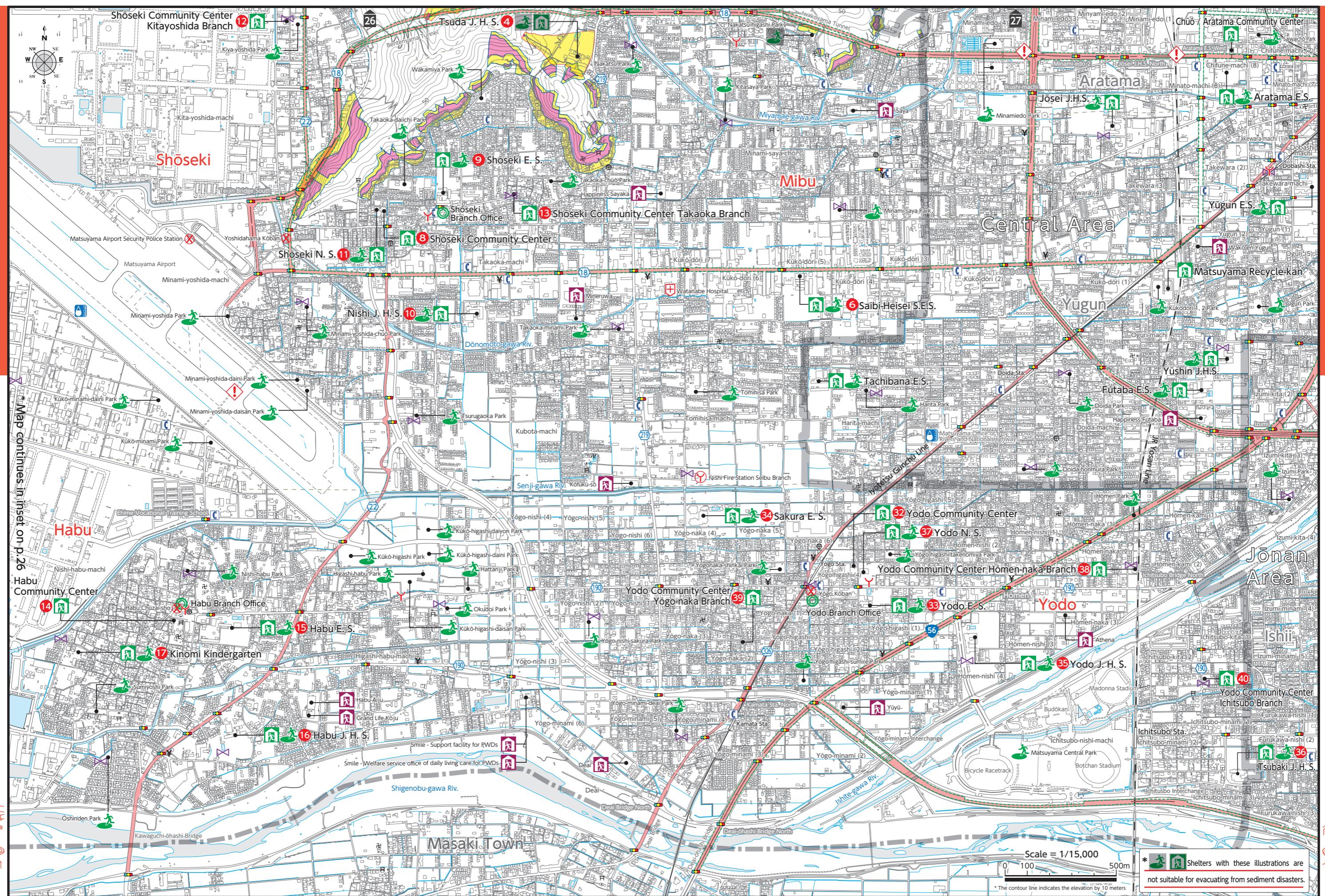
Hazard zone (steep slope)	Extreme hazard zone (steep slope)
Hazard zone (debris flow)	Extreme hazard zone (debris flow)
Hazard zone (landslide)	Not applicable

<Caution Required Reservoirs / Expected Reservoir Flooding Inundation Zones>

Rain Gauge	Caution Required Reservoir
Reservoir that could flood homes, etc. in case of a breach	0.5m and over
(Not applicable)	Under 0.5m

Jōsei Area
33
LANDSLIDE,etc. / RESERVOIR

Mibu / Shōseki / Habu / Yodo



Jōsei Area
34
FLOOD / STORMWATER

Designated Evacuation Shelter
Welfare Evacuation Shelter
Please refer to pages 32,33, 36,37 for the designated emergency evacuation sites

City Hall / Branch Office
Fire Station / Branch
Emergency Medical Facility
Civilian Firefighters' Pump Storage

Emergency Helicopter Landing-pad
Underground Shopping Center / Underpass
Payphone (outdoors)

Major Evacuation Route
National Road
Prefectural Road
Intersection Name
Bank / Shinkin Bank
Post Office
Shrine
Temple

Please refer to pages 32,33, 36,37 for the emergency transportation routes

Expected Flood Inundation Zones / Maximum Inundation Depth
"Shigenobu-gawa River / Ishite-gawa River / Ono-gawa River"

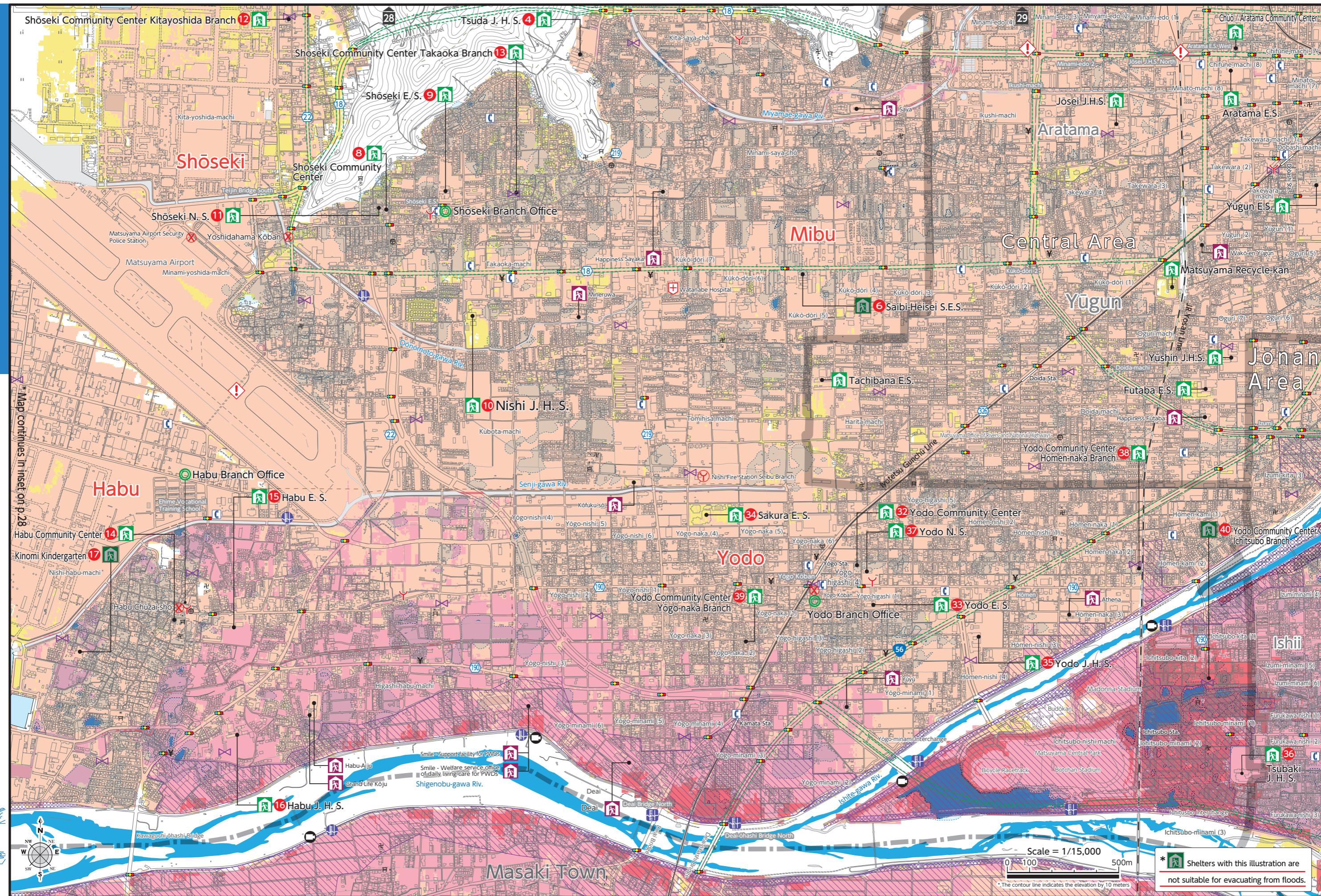
5.0m and over
0.5~3.0m
Flooding zone with the risk of structures collapsing, etc.
3.0~5.0m
Under 0.5m
Flooding zone with the risk of structures collapsing, etc.

Expected Stormwater Inundation Zones / Maximum Inundation Depth

Normal Water Level Gauge
3L Water Level Gauge
Live Camera
0.5m and over
0.3~0.5m
Under 0.3m

Jōsei Area
35
FLOOD / STORMWATER

Mibu / Shōseki / Habu / Yodo



River Flooding / Stormwater Flooding

34

Mibu / Yodo

River Flooding / Stormwater Flooding

35

* Shelters with this illustration are not suitable for evacuating from floods.

