

8.4.1.5 Spot Guidance Data List

name [Spot Guidance Data List]

| No. | offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|--------------------------------|---------|----------------|
| 1 | 0 | B1 | | Spot Guidance Data Record List | | |

8.4.1.5.1 Spot Guidance Data Record

Data is created by the number of spot guidance data records in the basic distribution header.

name [Spot Guidance Data Record]

| No. | offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|------------|---|---------|----------------|
| 1 | 0 | 2 | B:B:B:B:B: | Spot Guidance Attribute Header | (1) | a |
| 2 | 2 | 2 | B:N: | Distance Information | | a |
| 3 | 4 | 2 | N | Number of Guidance Point Management Records | (3) | a |
| 4 | 6 | B1 | | Guidance Point Management List | | c |
| 5 | O1 | 8 | | Initial Position Information | | c |
| 6 | O2 | B1 | | Previous Connected Node Information | (4) | c |
| 7 | O2 | 2 | D | Offset to Character String Data | (5) | c |

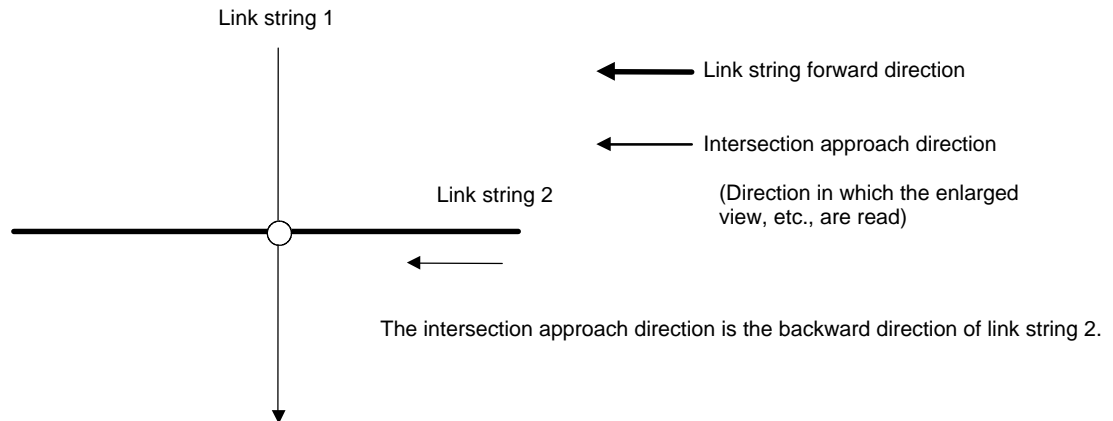
(1) Spot Guidance Attribute Header

| No. | bit | Description | | | | | |
|-----|----------|--|-------|--|---|-------|---|
| 1 | 15 to 14 | Link Direction (2) | bit15 | bit14 | Meaning | | |
| | | | 0 | 0 | All directions | | |
| | | | 0 | 1 | Forward direction (same as the node record storage sequence) | | |
| | | | 1 | 0 | Backward direction (reversal of node record storage sequence) | | |
| | | | 1 | 1 | Bidirectional | | |
| 2 | 13 to 10 | Guidance Type | bit13 | bit12 | bit11 | bit10 | Meaning |
| | | | 0 | 0 | 0 | 0 | Road branch point guidance |
| | | | 0 | 0 | 0 | 1 | Destination signboard (signboard on the spot) |
| | | | 0 | 0 | 1 | 0 | POI guidance |
| | | | 0 | 0 | 1 | 1 | (RESERVED) |
| | | | 0 | 1 | 0 | 0 | High-speed branch drawing |
| | | | 0 | 1 | 0 | 1 | Enlarged view of 3-D intersection |
| | | | 0 | 1 | 1 | 0 | Enlarged view of 2-D intersection |
| | | | 0 | 1 | 1 | 1 | Intersection image drawing |
| | | | 1 | 0 | 0 | 0 | (1000(2) or after, undecided) |
| 3 | 9 | Character String Data Existence Flag | bit9 | Meaning | | | |
| | | | 0 | Character string data offset information does not exist. | | | |
| | | | 1 | Character string data offset information exists. | | | |
| 4 | 8 | Image Dot Coordinate Flag | bit8 | Meaning | | | |
| | | | 0 | Image dot coordinate information does not exist. | | | |
| | | | 1 | Image dot coordinate information exists. | | | |
| 5 | 7 | Previous Connected Node Information Existence Flag | bit7 | Meaning | | | |
| | | | 0 | On-this-side connected node information does not exist. | | | |
| | | | 1 | On-this-side connected node information exists. | | | |
| 6 | 6 to 0 | (RESERVED) | | | | | |

(2) Link Direction

In the multilink data record that directly specifies the relevant basic data according to the guidance data offset in the node additional record, the link direction indicates the approach direction to the intersection which is read as a spot guidance (e.g., pattern data reference).

Example



(3) Number of Guidance Point Management Records

This field describes the number of guidance point management records in the guidance point management list. When no entity exists, the number of guidance point management records is 0(16).

(4) Previous Connected Node Information

Previous connected node information exists when the previous connected node information existence flag (bit 7) in the spot guidance attribute header is 1 (previous connected node information exists). If the road to the relevant node is linear when a vehicle position, etc., is moved on the image (explained later), previous distance information is used. Otherwise, this information is used to represent the shape from the "attention node" of initial position information to the "start position" for the relevant node.

(5) Offset to Character String Data

The offset to character string data exists when the character string data existence flag (bit 9) in the spot guidance attribute header is 1 (character string data offset information exists). This offset indicates the storage position of the character string data record corresponding to the relevant spot guidance record. It represents the displacement from the beginning of the character string data list to the beginning of the applicable character string data record. The character string indicates the name of a detail drawing (e.g., lamp exist).

8.4.1.5.1.1 Distance Information

Indicates the previous road distance represented in pattern data relative to the applicable node.

| No. | bit | Description | | | |
|-----|----------|--------------------|-------|-------|-----------------------|
| 1 | 15 to 14 | Distance Unit Flag | bit15 | bit14 | Meaning |
| | | | 0 | 0 | Unit per bit (type 1) |
| | | | 0 | 1 | Unit per bit (type 2) |
| | | | 1 | 0 | Unit per bit (type 3) |
| | | | 1 | 1 | Unit per bit (type 4) |
| 2 | 13 to 7 | Distance (1) | | | |
| 3 | 6 to 0 | (RESERVED) | | | |

(1) Distance

Distance is handled as follows:

| | | | | |
|-------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Distance unit flag (bit15,bit14) | (0,0) Type 1 | (0,1) Type 2 | (1,0) Type 3 | (1,1) Type 4 |
| Unit | 5m | 10m | 50m | 100m |
| Value range | 0 to 630m | 0 to 1260m | 0 to 6300m | 0 to 12600m |

In distance, fractions less than the specified unit are rounded up or down. 7F(16) indicates that the distance is unknown.

8.4.1.5.1.2 Guidance Point Management List

name [Guidance Point Management List]

| No. | offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|---------------------------------------|---------|----------------|
| 1 | 0 | B1 | | Guidance Point Management Record List | | |

8.4.1.5.1.2.1 Guidance Point Management Record

Data is created by the number of guidance point management records.

name [Guidance Point Management Record]

| No. | offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|------------|---|---------|----------------|
| 1 | 0 | 2 | B:B:B:N:B: | Guidance Point Management Attribute Header | (1) | a |
| 2 | 2 | 2 | N: | Operation Number | (5) | a |
| 3 | 4 | 2 | N: | Number of Connected Nodes in the Exit Direction | (7) | a |
| 4 | 6 | B1 | | Pattern Data Related Information List | | c |
| 5 | O1 | 2 | D | Offset to Character String Data | (8) | c |
| 6 | O2 | B2 | | Connected Node Information Table | | c |

(1) Guidance Point Management Attribute Header

| No. | bit | Description | | | | |
|-----|----------|--|-------|--|---|---|
| 1 | 15 to 13 | Record Type (2) | | | | |
| 2 | 12 to 10 | Pattern Data Storage Identification | bit12 | bit11 | bit10 | Meaning |
| | | | 0 | 0 | 0 | No pattern data |
| | | | 0 | 0 | 1 | Pattern data exists inside the route guidance basic data frame. |
| | | | 0 | 1 | 0 | Pattern data exists outside the route guidance data frame. |
| | | | 0 | 1 | 1 | Pattern data depends on the route guidance extended data frame. |
| | | | 1 | 0 | 0 | Pattern data exists in the image data frame (reference by image IDs). |
| | | | 1 | 0 | 1 | Pattern data exists in the parameter data (reference by type codes). |
| | | | 1 | 1 | 0 | (RESERVED) |
| | | | 1 | 1 | 1 | (RESERVED) |
| 3 | 9 to 6 | Link String Data Record Identification Information (3) | | | | |
| 4 | 5 to 4 | Link Direction (4) | bit5 | bit4 | Meaning | |
| | | | 0 | 0 | All directions | |
| | | | 0 | 1 | Forward direction (same as the node record storage sequence) | |
| | | | 1 | 0 | Backward direction (reversal of node record storage sequence) | |
| | | | 1 | 1 | Bidirectional | |
| 5 | 3 | Character String Data Existence Flag | bit3 | Meaning | | |
| | | | 0 | Character string data offset information does not exist. | | |
| | | | 1 | Character string data offset information exists. | | |
| 6 | 2 to 0 | Number of Pattern Data Related Information | | | | |

(2) Record Type

| Values of bit 15 to bit 13 | Meaning | Remarks |
|-----------------------------|---|---|
| 0(16) | Data related to the approach direction to the intersection (those which enter the operating status when the approach direction is determined) | For example, indicates the intersection image viewed from the approach direction, etc. |
| 1(16) | Data related to the exit direction from the intersection (those which enter the operating status when the exit direction is determined) | For example, indicates the arrow image determined from the approach and exit directions, etc. |
| 2(16) and after (undecided) | | |

(3) Link String Data Record Identification Information

This field represents which number of the link string data record from the relevant link string data record (specification in the same node information) is this link string data record. The link string data record that directly specifies the relevant basic data according to the guidance data offset in the node additional record is assigned number 0. The next link string data record specified according to the same node information for the link string data record that directly specifies the relevant basic data is assigned number 1. Subsequent link string data records are sequentially assigned numbers 2 to 14. This information is valid when the record type is not 0(16).

(4) Link Direction

In the link string data that can be identified according to link string data record identification information, the link direction indicates the link direction corresponding to the exit direction from the node related to the exit link. The link direction is valid when the record type is other than 0(16).

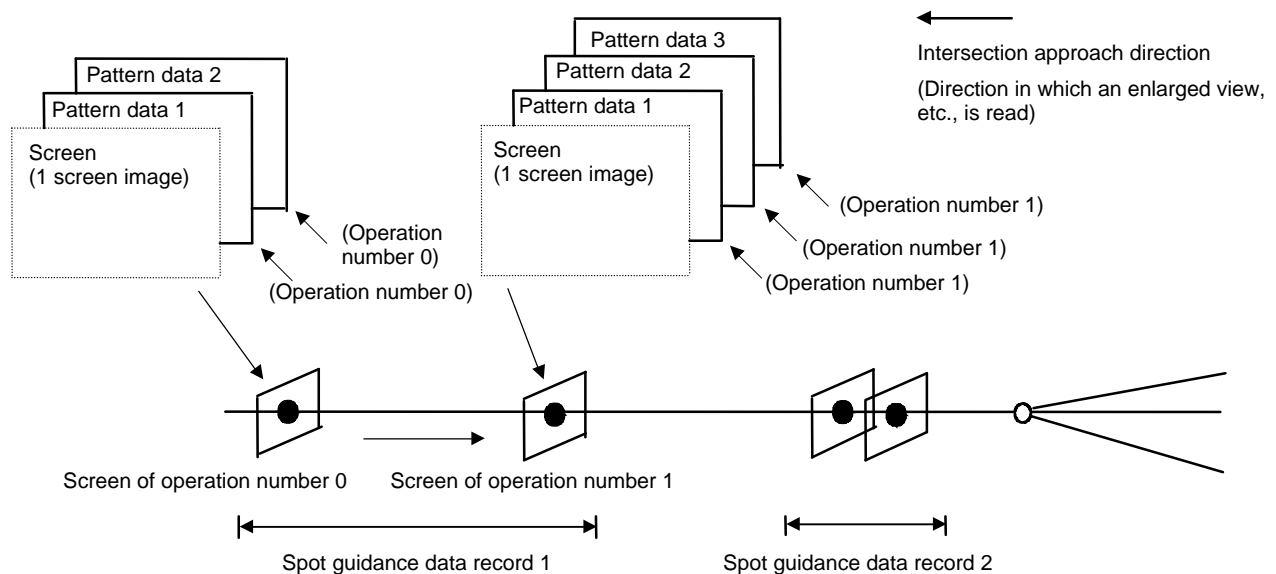
(5) Operation Number + Image Data Type

| No. | bit | Description |
|-----|---------|----------------------|
| 1 | 15 to 8 | Operation Number (6) |
| 2 | 7 to 0 | (RESERVED) |

(6) Operation Number

In the one spot guidance data record, the guidance point management records having the same number constitute one guidance point. Guidance points are also switched in ascending order of operation numbers (0 to 254).

Example:



(7) Number of Nodes Connected in the Exit Direction

Link string data record identification information and the number of nodes to be linked to the exit link that can be identified according to the link direction are stored. The nodes to be linked include the node that directly specifies the relevant basic data according to the guidance data offset. This number of nodes is used to identify the exit direction for multiple nodes (e.g., multiple intersections). It is 0 when only the exit link for the node that directly specifies the relevant basic data according to the guidance data offset is identified. The number of nodes connected in the exit direction is valid when the record type is other than 0(16).

| No. | bit | Description |
|-----|---------|--|
| 1 | 15 to 8 | Number of Connected Node Information Records |
| 2 | 7 to 0 | (RESERVED) |

(8) Offset to Character String Data

The offset to character string data exists when the character string data existence flag (bit 3) in the guidance point management attribute header is 1 (character string data offset information exists). This offset indicates the storage position of the character string data record corresponding to the guidance point management record in the relevant spot guidance data record. It represents the displacement from the beginning of the character string data frame to the beginning of the applicable character string data record.

8.4.1.5.1.2.1.1 Pattern Data Related Information List

Pattern data related information is arranged only according to the specified number of pattern data related information.

The setting contents of this list depend on the pattern data storage identification in the guidance point management attribute header. If the pattern data storage identification is "no pattern data," this pattern data related information does not exist.

8.4.1.5.1.2.1.1.1 Pattern Data Related Information

name [Pattern Data Related Information]

| No. | offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|--|---------|----------------|
| 1 | 0 | 2 | I | Placement x Coordinate of Pattern Data | (1) | a |
| 2 | 2 | 2 | I | Placement y Coordinate of Pattern Data | (1) | a |
| 3 | 4 | | | Pattern Data Information | | a |

(1) Placement x and y Coordinates of Pattern Data

These fields describe the reference position of the pattern data to be displayed on the screen in the dot coordinate system of the first registered image, where (0, 0) is the center of the drawing effective area.

Specify pattern data so that the display reference point specified on the image side will be positioned to the specified placement coordinates when the image is displayed.

8.4.1.5.1.2.1.1.1.1 When Pattern Data Exists within the Route Guidance Basic Data Frame

name [Pattern Data Information]

| No. | offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|------------------------|---------|----------------|
| 1 | 0 | 2 | D | Offset to Pattern Data | (1) | a |
| 2 | 2 | 2 | SWS | Pattern Data Size | (2) | a |

(1) Offset to Pattern Data

The offset to pattern data indicates the storage position of the image data record corresponding to the relevant guidance point management record. It represents the displacement from the beginning of the pattern data frame to the beginning of the applicable image data record.

(2) Pattern Data Size

The size of an image data record is stored. If no entity exists, the pattern data size is 0(16).

8.4.5.1.2.1.1.2 When Pattern Data Exists Outside the Route Guidance Data Frame

name [Pattern Data Information]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|----------------------|---------|----------------|
| 1 | 0 | 4 | DSA | Pattern Data Address | (1) | a |
| 2 | 4 | 2 | BS | Pattern Data Size | (2) | a |

(1) Pattern Data Address

This field describes the storage position of the image data record corresponding to the applicable screen management record.

(2) Pattern Data Size

The size of an image data record is stored. If no entity exists, the pattern data size is 0(16).

8.4.1.5.1.2.1.1.3 When Pattern Data Depends on the Route Guidance Extended Data Frame

Pattern data is set when image data that cannot be represented in the pattern data format defined in the route guidance basic data frame is stored. For this reason, the image data is accessed after the extended data frame has been accessed once.

The offset to extended data indicates the storage position of the extended data to be linked to basic data. It represents the displacement from the beginning of the route guidance extended data frame to the beginning of the applicable extended data.

name [Offset to Extended Data]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|-------------------------|---------|----------------|
| 1 | 0 | 2 | D | Offset to Extended Data | | a |

8.4.1.5.1.2.1.1.4 When Pattern Data Exists in the Image Data Frame (reference by Image IDs)

Image data IDs are written.

name [Pattern Data Information]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|---------------|---------|----------------|
| 1 | 0 | 2 | N | Image Data ID | | a |

8.4.1.5.1.2.1.1.5 When Pattern Data Exists in Information Parameter Data

name [Pattern Data Information]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|--------------------------|---------|----------------|
| 1 | 0 | 2 | I | Placement x Coordinate | (1) | a |
| 2 | 2 | 2 | I | Placement y Coordinate | (1) | a |
| 3 | 4 | 2 | N | Type (e.g., image) | (2) | a |
| 4 | 6 | 2 | N | ID (e.g., image in type) | (3) | a |

(3) This field describes the reference position of the pattern data, etc., to be displayed on the screen in the dot coordinate system of the first registered image where (0, 0) is the center of the display area. Specify pattern data so that the display reference point specified in the image side is positioned to the specified placement coordinates.

(4) 1(16) indicates that pattern data is specified by the type code defined in META. Other values are reserved.

(5) When the type code defined in META is specified in No. 3, it is set.

8.4.1.5.1.2.1.2 Connected Node Information Table

name [Connected Node Information Table]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|--|---------|----------------|
| 1 | 0 | B1 | | Connected Node Information Record List | | |

8.4.1.5.1.2.1.2.1 Connected Node Information Record

Data is created according to the "number of connected node information records."

name [Connected Node Information Record]

| No. | Offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|--|---------|----------------|
| 1 | 0 | 4 | :B:N:N | Node Information | (1) | a |
| 2 | 4 | 2 | B:B: | Direction Information + Between-nodes Distance Information | (3) | a |
| 3 | 6 | 2 | :N | Screen X (horizontal) Dot Coordinate | (6) | c |
| 4 | 8 | 2 | :N | Screen Y (vertical) Dot Coordinate | (8) | c |

(1) Node Information

This information represents the storage position of the relevant node (node record position in the node link connection information of the road data list). If an attention node exists on the parcel boundary and node information indicates the storage position of the node on the adjacent boundary, node information is stored in the same node record of the adjacent parcel. If no entity exists (is invalid), 4095(10) is stored as the intersection multilink number.

| No. | bit | Description | | | | |
|-----|----------|---|-------|--|-------|-------------|
| 1 | 31 to 29 | (RESERVED) | | | | |
| 2 | 28 | Inside/Outside the Parcel Node Flag | bit28 | Meaning | | |
| | | | 0 | The applicable node exists inside the parcel. | | |
| | | | 1 | The applicable node exists outside the parcel. | | |
| 3 | 27 to 25 | Connected Parcel Position (2) | bit27 | bit26 | bit25 | Meaning |
| | | | 0 | 0 | 0 | Above |
| | | | 0 | 0 | 1 | Upper right |
| | | | 0 | 1 | 0 | Right |
| | | | 0 | 1 | 1 | Lower right |
| | | | 1 | 0 | 0 | Below |
| | | | 1 | 0 | 1 | Lower left |
| | | | 1 | 1 | 0 | Left |
| | | | 1 | 1 | 1 | Upper left |
| 4 | 24 to 21 | Crossing Link String Display Class (0-15) | | | | |
| 5 | 20 to 9 | Crossing Link String Number (0-4095) | | | | |
| 6 | 8 to 0 | Node Number of Crossing Link String (0-511) | | | | |

(2) Connected Parcel Position

Represents the direction of the connected parcel where the applicable node exists relative to the position of the immediately-preceding connected node. This direction is valid only when the parcel flag in node information is 1(2).

(3) Direction Information + Between-nodes Distance Information

| No. | bit | Description | | | |
|-----|----------|--------------------|-------|-------|---|
| 1 | 15 to 14 | Link Direction (4) | bit15 | bit14 | Meaning |
| | | | 0 | 0 | Undefined (logical link extending over the parcel boundary line) |
| | | | 0 | 1 | Forward direction (same as the node record storage sequence) |
| | | | 1 | 0 | Backward direction (reversal of the node record storage sequence) |
| | | | 1 | 1 | (RESERVED) |
| 2 | 13 to 12 | Distance Unit Flag | bit13 | bit12 | Meaning |
| | | | 0 | 0 | Unit per bit (type 1) |
| | | | 0 | 1 | Unit per bit (type 2) |
| | | | 1 | 0 | Unit per bit (type 3) |
| | | | 1 | 1 | Unit per bit (type 4) |
| 3 | 11 to 5 | Distance (5) | | | |
| 4 | 4 to 0 | (RESERVED) | | | |

(4) Link Direction

In the link string data that can be identified according to node information, the link direction indicates the link direction corresponding to the exit direction from the node related to the exit link. The link direction is valid when the record type is other than 0(16). When the node that can be identified according to node information on the parcel boundary is retaining a logical ring of distance 0 that extends over the parcel boundary line, the link direction becomes 00(2). The link direction also becomes 00(2) when the node within the parcel is retaining a logical link of distance 0 that is to be connected to another link string.

(5) Distance

Distance from the immediately preceding node to the coordinate indicated by the applicable node information data record.

Distance is handled as follows:

| Distance unit flag (bit15,bit14) | (0,0) Type 1 | (0,1) Type 2 | (1,0) Type 3 | (1,1) Type 4 |
|-------------------------------------|-----------------|-----------------|-----------------|-----------------|
| Unit | 5m | 10m | 50m | 100m |
| Value range | 0 to 630m | 0 to 1260m | 0 to 6300m | 0 to 12600m |

In distance, fractions less than the specified unit are rounded up or down. 7F(16) indicates that the distance is unknown.

(6) Screen X (horizontal) Dot Coordinate

When the image dot coordinate flag (bit 8) is 1 (image dot coordinate information exists), the screen X (horizontal) dot coordinate storage field is reserved. When this flag is 0 (image dot coordinate information does not exist), this field is omitted.

| No. | bit | Description |
|-----|----------|------------------|
| 1 | 15 to 13 | (RESERVED) |
| 2 | 12 to 0 | X Coordinate (7) |

(7) X Coordinate

Horizontal coordinate value (horizontal dot size on the screen) in the connected node. The coordinate value is 0 to "pattern width - 1."

(8) Screen Y (vertical) Dot Coordinate

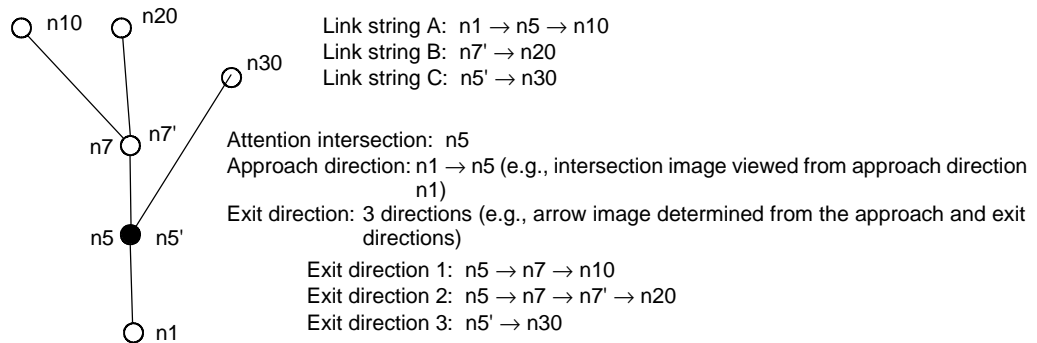
When the image dot coordinate flag (bit 8) is 1 (image dot coordinate information exists), the screen Y (vertical) dot coordinate storage field is reserved. When this flag is 0 (image dot coordinate information does not exist), this field is omitted.

| No. | bit | Description |
|-----|----------|------------------|
| 1 | 15 to 13 | (RESERVED) |
| 2 | 12 to 0 | Y Coordinate (9) |

(9) Y Coordinate

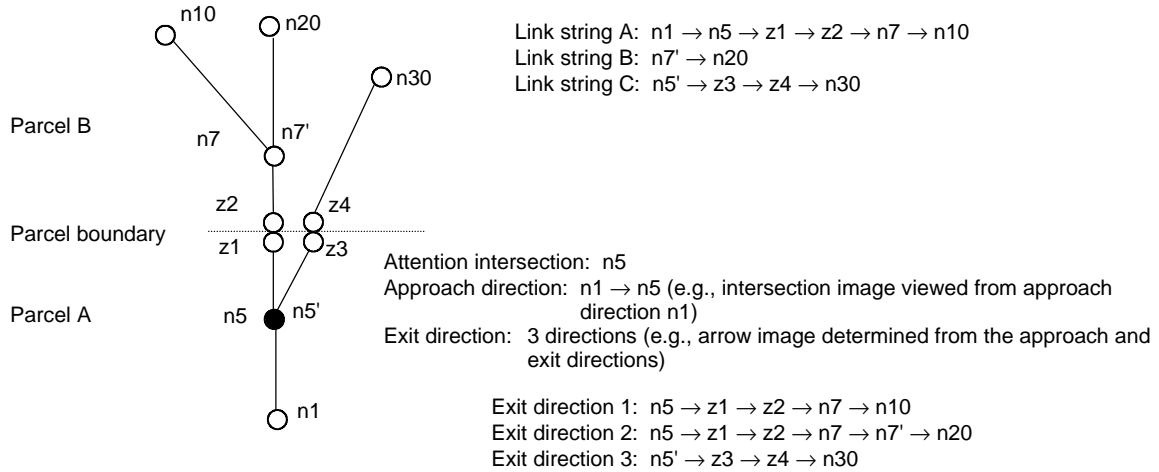
Vertical coordinate value (vertical dot size) on the screen) in the connected node. The coordinate value is 0 to "pattern height - 1."

Example 1: When intersection branching is near



| | | Guidance point management record | | | |
|---|--|--|--|--|--------------------------------------|
| | | 1 | 2 | 3 | 4 |
| Guidance Point Management Attribute Header | Record type | 0(16) $n1 \rightarrow n5$ | 1(16) $n5 \rightarrow n7$ | 1(16) $n5 \rightarrow n7$ | 1(16) $n5' \rightarrow n30$ |
| | Link string data record identification information | 0(16) "Meaningless" | 0(16) | 0(16) | 1(16) |
| | Link direction | 00(2) "Meaningless" | 01(2) "Forward direction" | 01(2) "Forward direction" | 01(2) "Forward direction" |
| Operation number | | 0 | 0 | 0 | 0 |
| Number of Nodes Connected in the exit Direction | | 0 | 1 | 2 | 0 |
| Connected Node Information Record 1 | Node information | (Not set) | $n7$ position | $n7$ position | (Not set) |
| | Link direction | (Not set) | 01(2) "Forward direction" | 00(2) "Undefined" | (Not set) |
| | Flag inside or outside parcel | (Not set) | 0(2) "Inside parcel" | 0(2) "Inside parcel" | (Not set) |
| Connected Node Information Record 2 | Node information | (Not set) | (Not set) | $n7'$ position | (Not set) |
| | Link direction | (Not set) | (Not set) | 01(2) "Forward direction" | (Not set) |
| | Flag inside or outside parcel | (Not set) | (Not set) | 0(2) "Inside parcel" | (Not set) |
| Pattern Data (example) | | Intersection image viewed from $n1 \rightarrow n5$ | Arrow image of $n5 \rightarrow n7 \rightarrow n10$ | Arrow image of $n5 \rightarrow n7 \rightarrow n7' \rightarrow n20$ | Arrow image of $n5' \rightarrow n30$ |

Example 2: When intersection branching is near and the exit link is divided on the parcel boundary



| | | Guidance point management record | | | |
|---|--|--|--|--|--------------------------------------|
| | | 1 | 2 | 3 | 4 |
| Guidance Point Management Attribute Header | Record type | 0(16) $n1 \rightarrow n5$ | 1(16) $n5 \rightarrow z1$ | 1(16) $n5 \rightarrow z1$ | 1(16) $n5' \rightarrow z3$ |
| | Link string data record identification information | 0(16) "Meaningless" | 0(16) | 0(16) | 1(16) |
| | Link direction | 00(2) "Meaningless" | 01(2) "Forward direction" | 01(2) "Forward direction" | 01(2) "Forward direction" |
| Operation Number | | 0 | 0 | 0 | 0 |
| Number of Nodes Connected in the Exit Direction | | 0 | 3 | 4 | 0 |
| Connected Node Information Record 1 | Node information | (Not set) | $z1$ position in parcel A | $z1$ position in parcel A | (Not set) |
| | Link direction | (Not set) | 00(2) "Undefined" | 00(2) "Undefined" | (Not set) |
| | Flag inside or outside parcel | (Not set) | 0(2) "Inside parcel" | 0(2) "Inside parcel" | (Not set) |
| Connected Node Information Record 2 | Node information | (Not set) | $z2$ position in parcel B | $z2$ position in parcel B | (Not set) |
| | Link direction | (Not set) | 01(2) "Forward direction" | 01(2) "Forward direction" | (Not set) |
| | Flag inside or outside parcel | (Not set) | 1(2) "Outside parcel" | 1(2) "Outside parcel" | (Not set) |
| Connected Node Information Record 3 | Node information | (Not set) | $n7$ position in parcel B | $n7$ position in parcel B | (Not set) |
| | Link direction | (Not set) | 01(2) "Forward direction" | 00(2) "Undefined" | (Not set) |
| | Flag inside or outside parcel | (Not set) | 0(2) "Inside parcel" | 0(2) "Inside parcel" | (Not set) |
| Connected Node Information Record 4 | Node information | (Not set) | (Not set) | $n7'$ position in parcel B | (Not set) |
| | Link direction | (Not set) | (Not set) | 01(2) "Forward direction" | (Not set) |
| | Flag inside or outside parcel | (Not set) | (Not set) | 0(2) "Inside parcel" | (Not set) |
| Pattern Data (example) | | Intersection image viewed from $n1 \rightarrow n5$ | Arrow image of $n5 \rightarrow n7 \rightarrow n10$ | Arrow image of $n5 \rightarrow n7 \rightarrow n7' \rightarrow n20$ | Arrow image of $n5' \rightarrow n30$ |

8.4.1.5.1.3 Initial Position Information

When the image dot coordinate flag (bit 8) is 1 (image dot coordinate information exists), the relevant initial position information storage field is reserved. When this flag is 0 (image dot coordinate information does not exist), this field is omitted.

name [Initial Position Information]

| No. | offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|--|---------|----------------|
| 1 | 0 | 2 | :N | Screen X (horizontal) Coordinate of Attention Node | (1) | a |
| 2 | 2 | 2 | :N | Screen Y (vertical) Coordinate of Attention Node | (3) | a |
| 3 | 4 | 2 | :N | Screen X (horizontal) Coordinate of Start Position | (5) | a |
| 4 | 6 | 2 | :N | Screen Y (vertical) Coordinate of Start Position | (7) | a |

(1) Screen X (horizontal) Coordinate of Attention Node

| No. | bit | Description |
|-----|----------|------------------------------------|
| 1 | 15 to 13 | (RESERVED) |
| 2 | 12 to 0 | X Coordinate of Attention Node (2) |

(2) X Coordinate of Attention Node

Horizontal coordinate value (horizontal dot size) on the screen) in the attention node. The coordinate value is 0 to "pattern width - 1."

(3) Screen Y (vertical) Coordinate of Attention Node

| No. | bit | Description |
|-----|----------|------------------------------------|
| 1 | 15 to 13 | (RESERVED) |
| 2 | 12 to 0 | Y Coordinate of Attention Node (4) |

(4) Y Coordinate of Attention Node

Vertical coordinate value (vertical dot size) on the screen) in the attention node. The coordinate value is 0 to "pattern height - 1."

(5) Screen X (horizontal) Coordinate of Start Position

| No. | bit | Description |
|-----|----------|------------------------------------|
| 1 | 15 to 13 | (RESERVED) |
| 2 | 12 to 0 | X Coordinate of Start Position (6) |

(6) X Coordinate of Start Position

Horizontal coordinate value (horizontal dot size) on the screen) in the start position. The coordinate value is 0 to "pattern width - 1." The start position is the POI on the road represented by the previous road distance.

(7) Screen Y (vertical) Coordinate of Start Position

| No. | bit | Description |
|-----|----------|------------------------------------|
| 1 | 15 to 13 | (RESERVED) |
| 2 | 12 to 0 | Y Coordinate of Start Position (8) |

(8) Y Coordinate of Start Position

Vertical coordinate value (vertical dot size) on the screen) in the start position. The coordinate value is 0 to "pattern height - 1."

8.4.1.5.1.4 Previous Connected Node Information

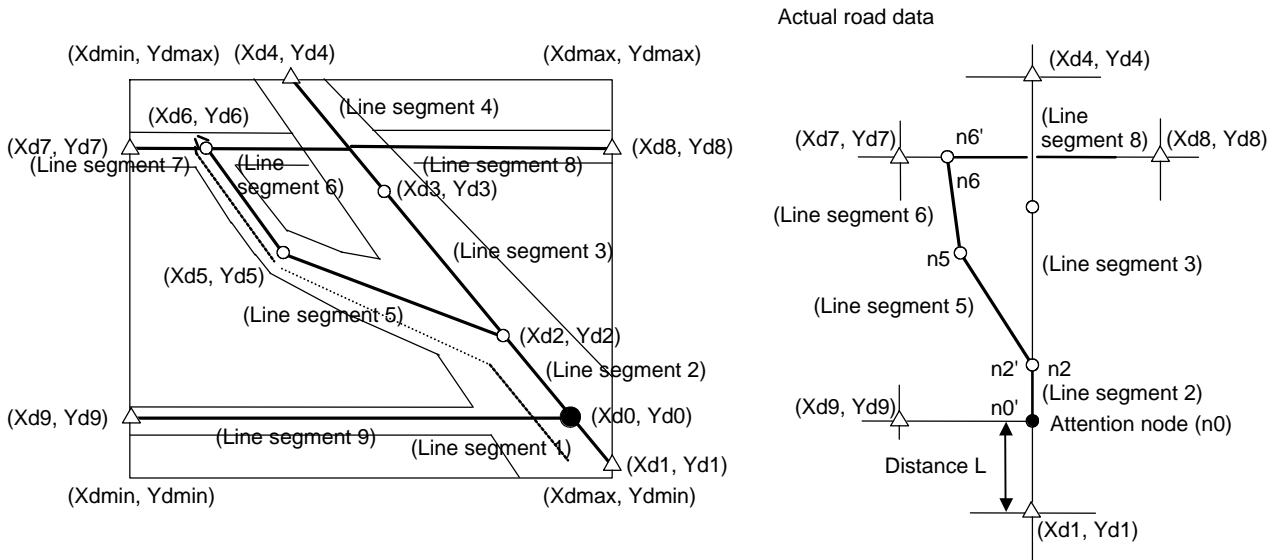
name [Previous Connected Node Information]

| No. | offset | Data length | Data type | Item name | Remarks | Classification |
|-----|--------|-------------|-----------|---|---------|----------------|
| 1 | 0 | 2 | N | Number of Nodes Connected in the Approach Direction | (1) | a |
| 2 | 2 | B1 | | Connected Node Information Table | | c |

(1) Number of Nodes Connected in the Approach Direction

The number of nodes necessary to represent the shape from the relevant attention node to the start position is written.

Example 3: When the current position mark is moved on pattern data



Distance L is the on-this-road road distance.

(Xda, Yda) are horizontal and vertical coordinate values (dot sizes) on the screen.

Xdmin and Ydmin are 0. Xdmax becomes "pattern width - 1" based on the pattern width written in the pattern data record. Likewise, Ydmax becomes "pattern height - 1" based on the pattern height.

Link string A: $\rightarrow (Xd1, Yd1) \rightarrow n0 \rightarrow n2 \rightarrow n3 \rightarrow (Xd4, Yd4) \rightarrow$

Link string B: $n2 \rightarrow n5 \rightarrow n6$

Link string C: $\rightarrow (Xd7, Yd7) \rightarrow n6' \rightarrow (Xd8, Yd8)$

Link string D: $\rightarrow (Xd9, Yd9) \rightarrow n0$

Attention intersection: n0

Approach direction: $(Xd1, Yd1) \rightarrow n0$ (e.g., intersection image viewed from approach direction (Xd1, Yd1))

Exit direction: 3 directions (e.g., arrow image determined from the approach and exit directions)

Exit direction 1: $n0 \rightarrow n2 \rightarrow n3 \rightarrow (Xd4, Yd4)$

Exit direction 2: $n0 \rightarrow n2 \rightarrow n2' \rightarrow n5 \rightarrow n6 \rightarrow n6' \rightarrow (Xd8, Yd8)$

Exit direction 3: $n0' \rightarrow (Xd9, Yd9)$

Initial position information

Screen X coordinate of attention node (n0): Xd0

Screen Y coordinate of attention node (n0): Yd0

Screen X coordinate of start position: Xd1

Screen Y coordinate of start position: Yd1

| | | Guidance point management record | | | |
|---|--|--|--|---|---------------------------------|
| | | 1 | 2 | 3 | 4 |
| Guidance Point Management Attribute Header | Record type | 0(16) (Xd1,Yd1) → n0 | 1(16) n0 → n2 | 1(16) n0 → n2 | 1(16) n0' → (Xd9,Yd9) |
| | Link string data record identification information | 0(16) "Meaningless" | 0(16) | 0(16) | 1(16) |
| | Link direction | 00(2) "Meaningless" | 01(2) "Forward direction" | 01(2) "Forward direction" | 01(2) "Backward direction" |
| Operation Number | | 0 | 0 | 0 | 0 |
| Number of Nodes Connected in the Exit Direction | | 0 | 3 | 6 | 1 |
| Connected Node Information Record 1 | Node information | (Not set) | n2 position | n2 position | FFFFFFFF(16) |
| | Link direction | (Not set) | 01(2) "Forward direction" | 00(2) "Undefined" | 00(2) "Undefined" |
| | Flag inside or outside parcel | (Not set) | 0(2) "Inside parcel" | 0(2) "Inside parcel" | 0(2) "Inside parcel" |
| | Screen (X, Y) coordinates | | (Xd2,Yd2) | (Xd2,Yd2) | (Xd9,Yd9) |
| Connected Node Information Record 2 | Node information | (Not set) | n3 position | n2' position | (Not set) |
| | Link direction | (Not set) | 01(2) "Forward direction" | 01(2) "Forward direction" | (Not set) |
| | Flag inside or outside parcel | (Not set) | 0(2) "Inside parcel" | 0(2) "Inside parcel" | (Not set) |
| | Screen (X, Y) coordinates | | (Xd3,Yd3) | (Xd2,Yd2) | |
| Connected Node Information Record 3 | Node information | (Not set) | FFFFFFFF(16) | n5 position | (Not set) |
| | Link direction | (Not set) | 00(2) "Undefined" | 01(2) "Forward direction" | (Not set) |
| | Flag inside or outside parcel | (Not set) | 0(2) "Inside parcel" | 0(2) "Inside parcel" | (Not set) |
| | Screen (X, Y) coordinates | | (Xd4,Yd4) | (Xd5,Yd5) | |
| Connected Node Information Record 4 | Node information | (Not set) | (Not set) | n6 position | (Not set) |
| | Link direction | (Not set) | (Not set) | 00(2) "Undefined" | (Not set) |
| | Flag inside or outside parcel | (Not set) | (Not set) | 0(2) "Inside parcel" | (Not set) |
| | Screen (X, Y) coordinates | | | (Xd6,Yd6) | |
| Connected Node Information Record 5 | Node information | (Not set) | (Not set) | n6' position | (Not set) |
| | Link direction | (Not set) | (Not set) | 01(2) "Forward direction" | (Not set) |
| | Flag inside or outside parcel | (Not set) | (Not set) | 0(2) "Inside parcel" | (Not set) |
| | Screen (X, Y) coordinates | | | (Xd6,Yd6) | |
| Connected Node Information Record 6 | Node information | (Not set) | (Not set) | FFFFFFFF(16) | (Not set) |
| | Link direction | (Not set) | (Not set) | 00(2) "Undefined" | (Not set) |
| | Flag inside or outside parcel | (Not set) | (Not set) | 0(2) "Inside parcel" | (Not set) |
| | Screen (X, Y) coordinates | | | (Xd8,Yd8) | |
| Pattern Data (example) | | Intersection image viewed from (Xd1, Yd1) → n0 | Arrow image of n0 → n2 → n3 → (Xd4, Yd4) | Arrow image of n0 → n2 → n2' → n5 → n6 → n6' → (Xd8, Yd8) | Arrow image of n0' → (Xd9, Yd9) |