

## Fences drawing index

SED_NO	SED_Version	Title	Last Published	Comments
FE0000	B	Fences drawing index	14/02/2020 as working draft	Minor changes
FE0001	B	Fence type A and B	14/02/2020 as working draft	Minor changes
FE0002	B	Fence type C	14/02/2020 as working draft	Minor changes
FE0003	B	Fence type E	14/02/2020 as working draft	Minor changes
FE0004	B	Fence type F part one of three	14/02/2020 as working draft	Minor changes
FE0005	B	Fence type F part two of three	14/02/2020 as working draft	Minor changes
FE0006	B	Fence type F part three of three	14/02/2020 as working draft	Minor changes
FE0007	B	Typical picket fence detail	14/02/2020 as working draft	Minor changes
FE0008	C	Typical wire fence detail A	14/02/2020 as working draft	Minor changes
FE0009	C	Typical wire fence detail B	14/02/2020 as working draft	Minor changes
FE0010	B	Handrail type A & B	14/02/2020 as working draft	Minor changes
FE0011	B	Access barrier chain	14/02/2020 as working draft	Minor changes
FE0012	B	Wooden bollard & chain fence details	14/02/2020 as working draft	Minor changes

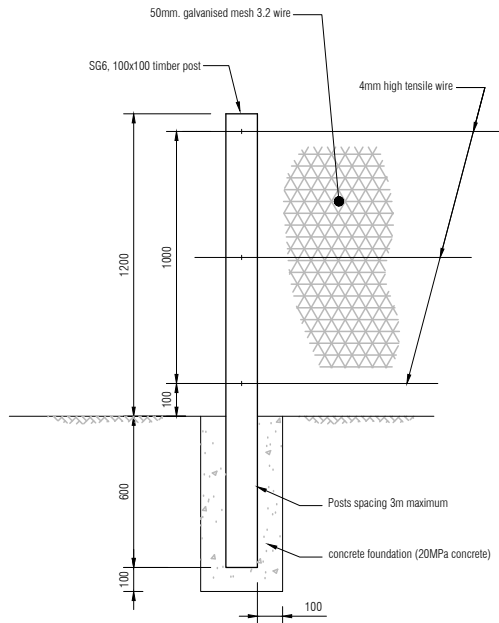


### TDM TECHNICAL STANDARDS

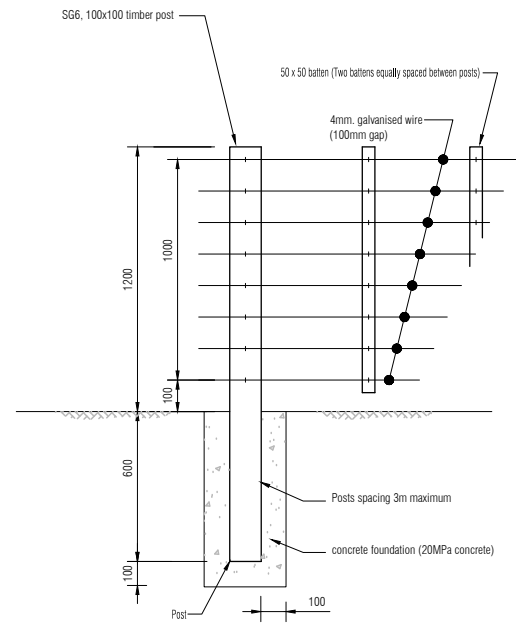
Fences drawing index

Date: 09/07/2025

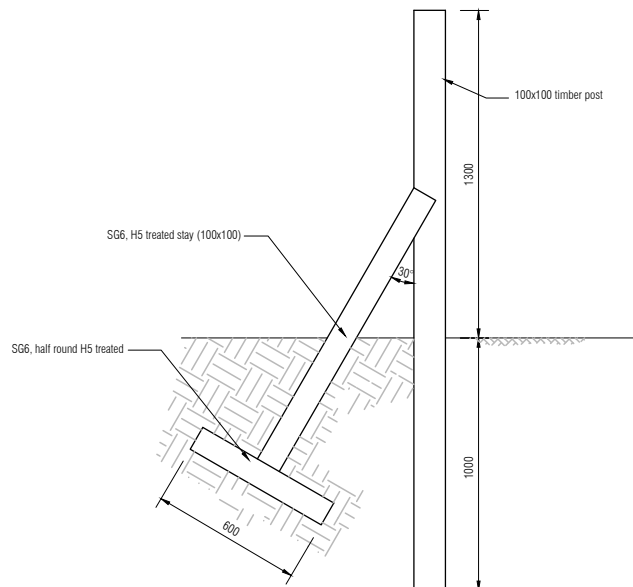
SED No. <b>FE0000</b>	Version <b>B</b>
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WIRE FENCE TYPE A



WIRE FENCE TYPE B

STRAINER POST AND STAY TYPICAL DETAIL  
(AT CORNERS / AT CHANGE OF DIRECTION)

## NOTES

1. All dimensions are in millimeters and levels are in metres.
2. All workmanship of timber elements shall be in accordance with AS/NZS 1720.1 and NZS 3604
3. All timber members shall have a minimum level of durability as specified in NZS 3602 and NZS3604
4. All timber battens shall be H4 treated unless otherwise
5. Timber battens shall be spaced equally between the posts
6. All Timber connections shall be grade 316 stainless steel stainless steel unless noted otherwise
7. All timber posts shall be H5 treated unless noted otherwise
8. Final tension of all free wires to be 1100N
9. All cut ends of timber shall be treated with end grain wood preservative for high pressure preservative treated timber.



## TDM TECHNICAL STANDARDS

Fence type A and B

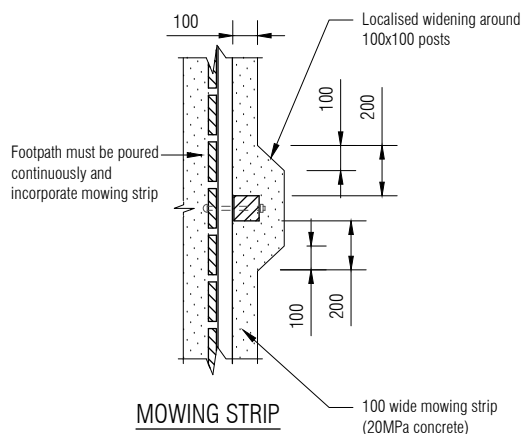
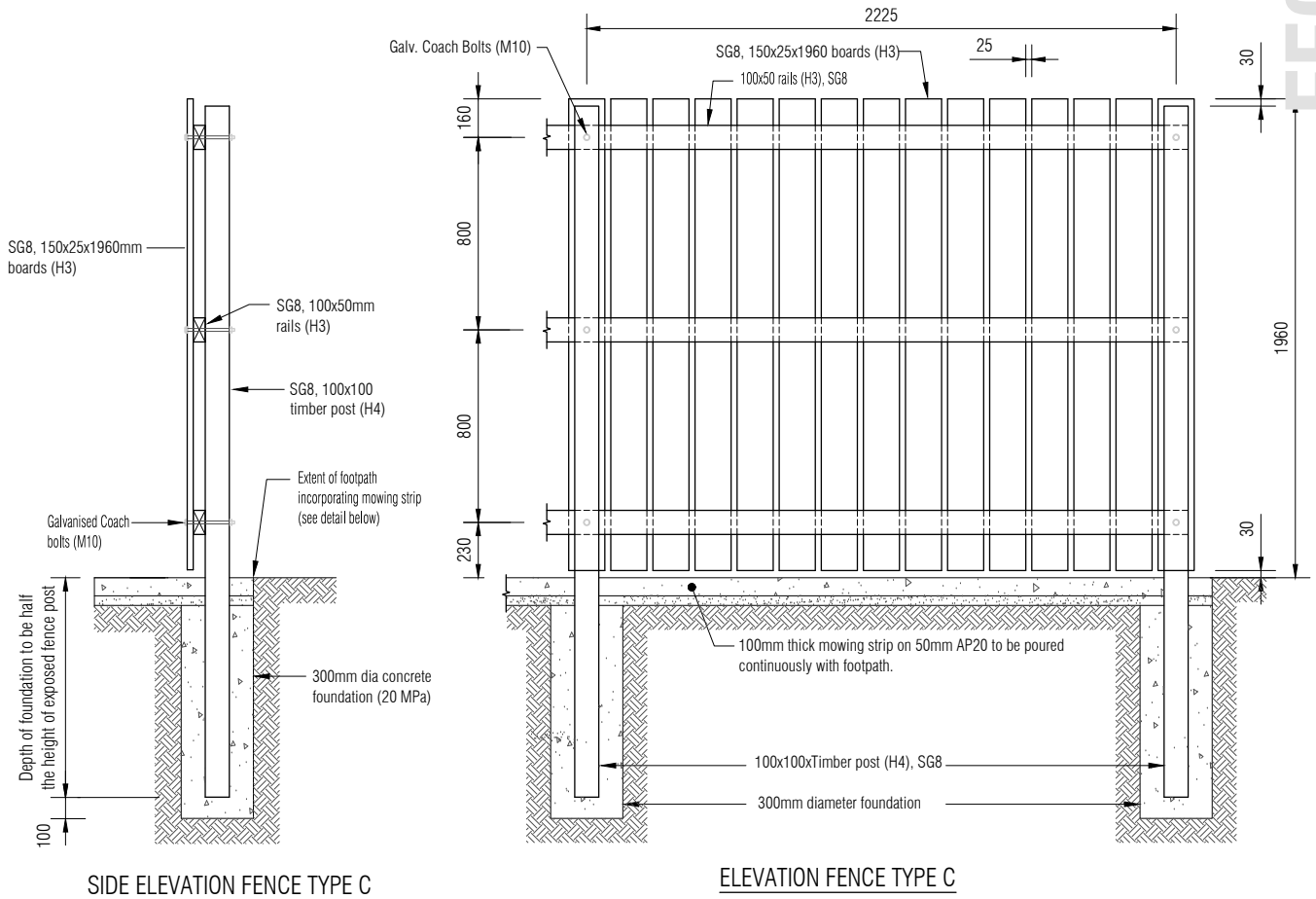
Date: 14/11/2024

SED No.

FE0001

Version

B



## NOTES

1. All dimensions are in millimeters and levels are in metres.
2. All workmanship of timber elements shall be in accordance with AS/NZS 1720.1 and NZS 3604
3. All timber members shall have a minimum level of durability as specified in NZS 3602 and NZS3604
4. All timber posts shall be H4 treated, all timber boards and rails shall be H3 treated
5. All Timber connections shall be grade 316 stainless steel unless noted otherwise
6. All concrete workmanship and materials shall be in accordance with the current version of NZS3101 and NZS3109



## TDM TECHNICAL STANDARDS

Fence type C

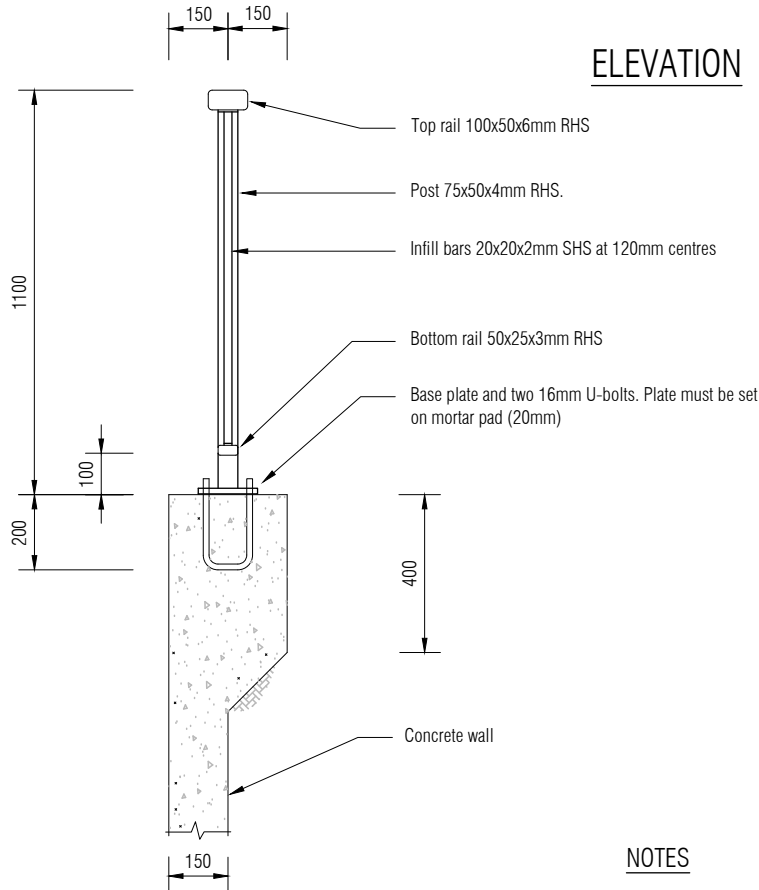
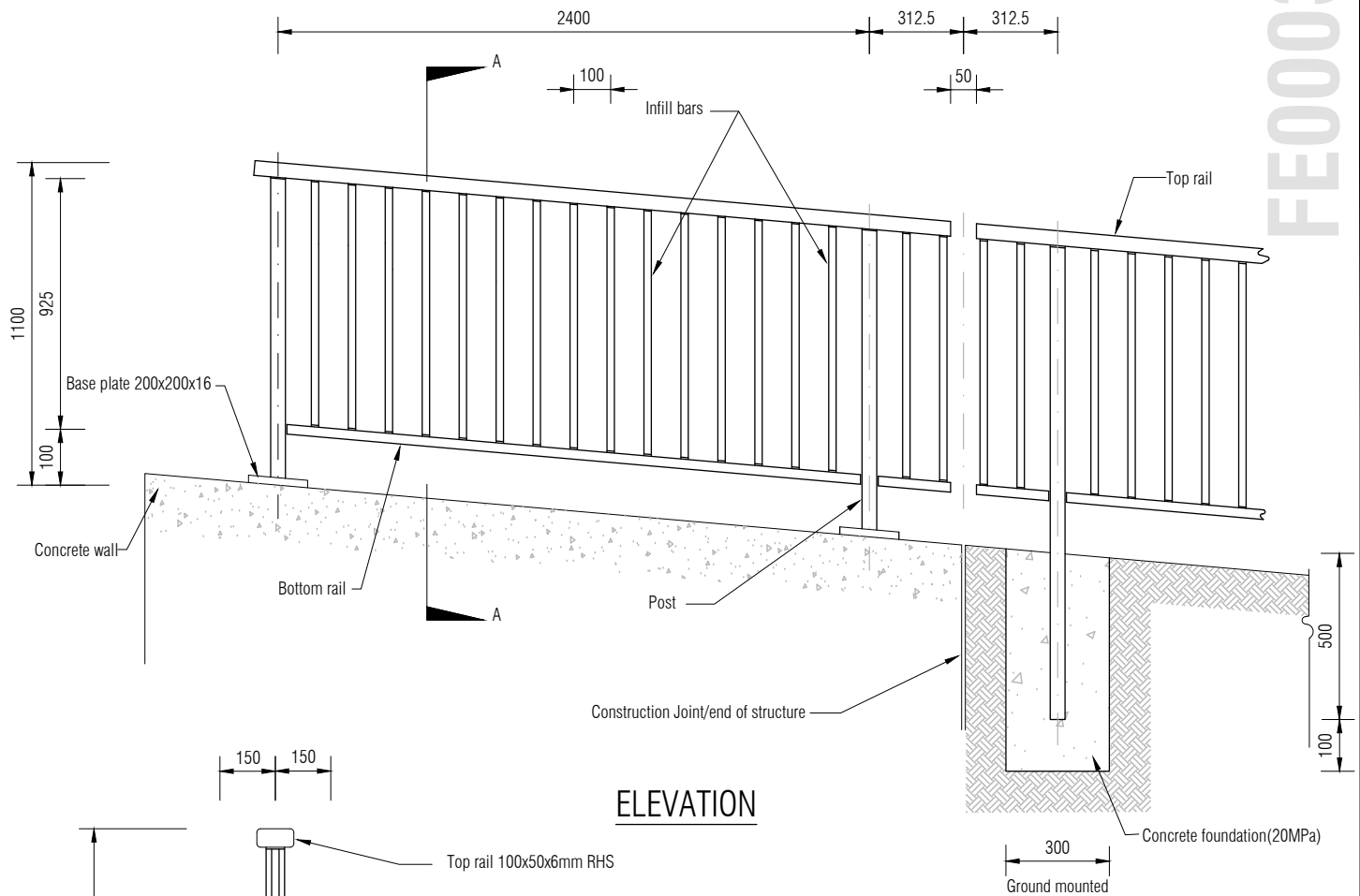
Date: 14/11/2024

SED No.

FE0002

Version

B



#### NOTES

1. All dimensions are in millimeters and levels are in metres.
2. All steel components must be hot dip galvanized in accordance with AS/NZS4680
3. Fence Type E is designed to comply with minimum imposed action for barriers, Type C3 (Table 3.3 of AS/NZS 1170.1)
4. Structural steel sections shall be hot dip galvanized for corrosion protection to suit the corrosion category in accordance with New Zealand standards to provide a time for first maintenance of at least 25 years
5. Structural steel hollow sections shall be grade C350
6. All structural steel work design and fabrication to be in accordance with NZS3404 and AS/NZS 5131
7. All splices on top and bottom rails must be sleeved



## TDM TECHNICAL STANDARDS

Fence type E

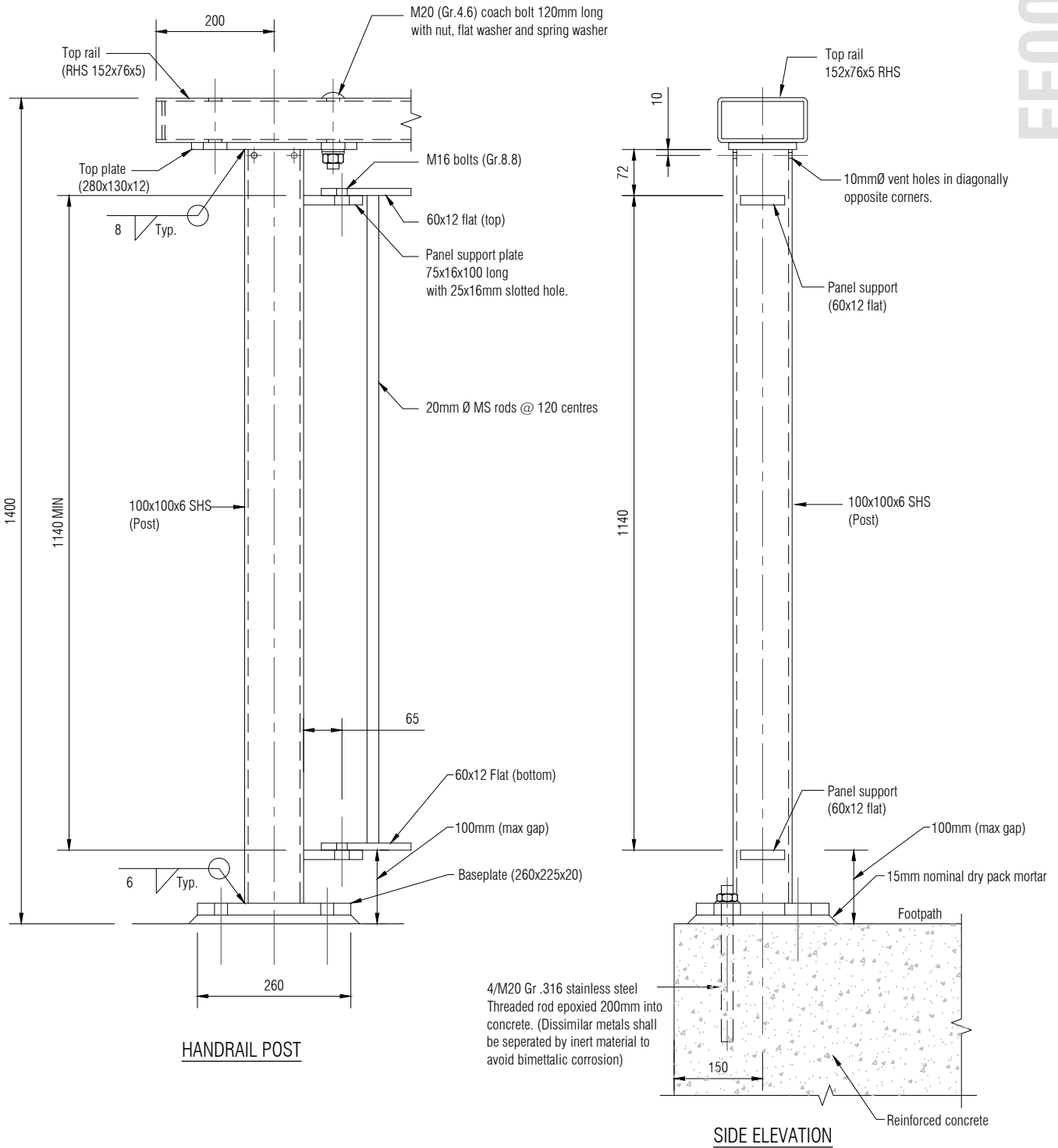
Date: 14/11/2024

SED No.

FE0003

Version

B



## NOTES

1. All dimensions are in millimetres and levels are in metres.
2. All steel components must be hot dip galvanised in accordance with AS/NZS4680
3. The Fence type F is designed to comply with minimum imposed action for barriers, type C3 (table 3.3 of AS/NZS 1170.1)
4. Structural steel sections shall be hot dip galvanised for corrosion protection to suit the corrosion category in accordance with NZ standards to provide a time for first maintenance of at least 25 years.
5. Structural hollow sections shall be grade C350
6. All steel work design and fabrication to be in accordance with NZS3404 & AS/NZS 5131.



## TDM TECHNICAL STANDARDS

Fence type F (Sheet 1 of 3)

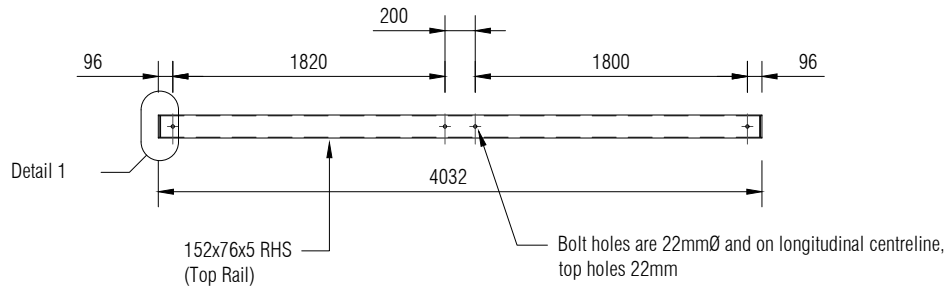
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SED No.

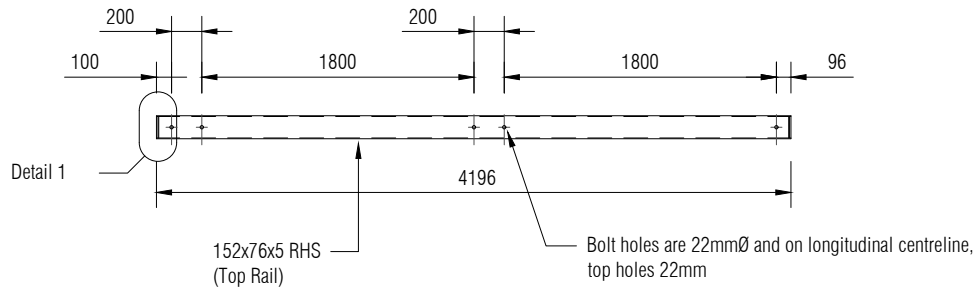
FE0004

Version

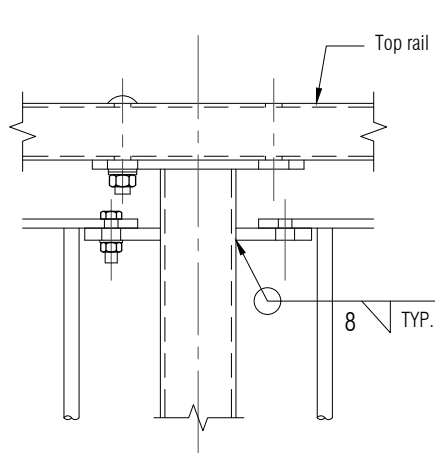
B



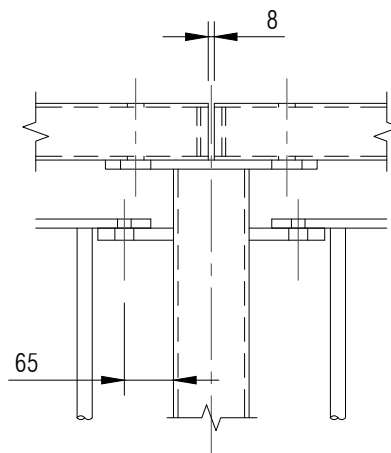
PLAN - TOP RAIL



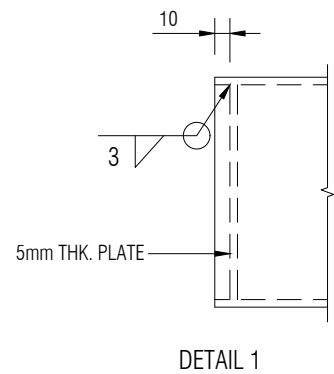
PLAN - END TOP RAIL



TOPRAIL CONTINUOUS



TOPRAIL JOINT



DETAIL 1

## NOTES

1. All dimensions are in millimetres and levels are in metres.
2. All steel components must be hot dip galvanised in accordance with AS/NZS4680
3. The Fence type F is designed to comply with minimum imposed action for barriers, type C3 (table 3.3 of AS/NZS 1170.1)
4. Structural steel sections shall be hot dip galvanised for corrosion protection to suit the corrosion category in accordance with NZ standards to provide a time for first maintenance of at least 25 years.
5. Structural hollow sections shall be grade C350
6. All steel work design and fabrication to be in accordance with NZS3404 & AS/NZS 5131.



## TDM TECHNICAL STANDARDS

Fence type F (Sheet 2 of 3)

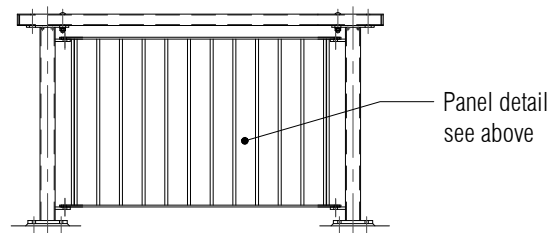
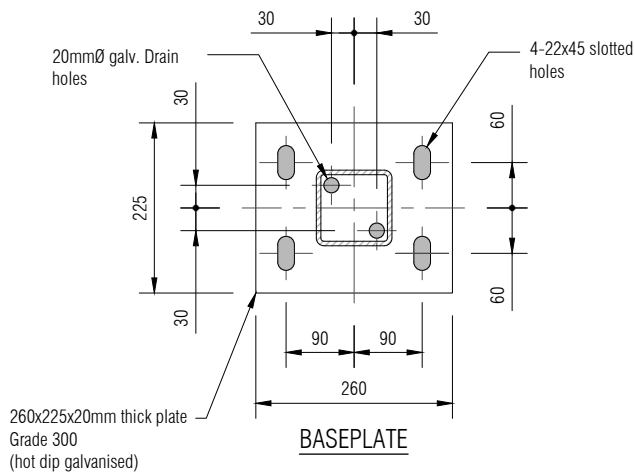
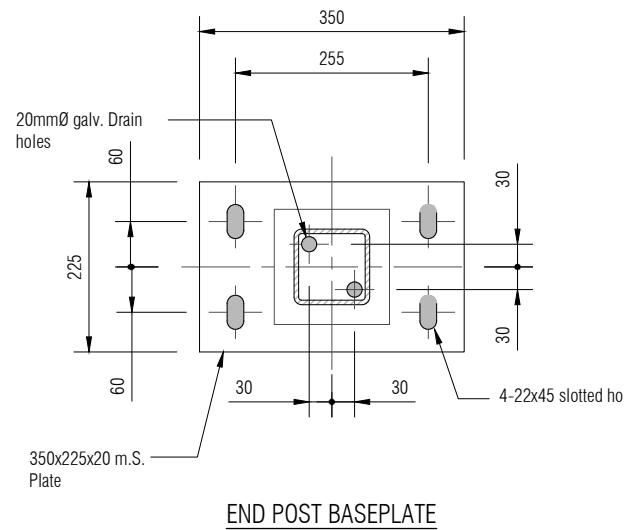
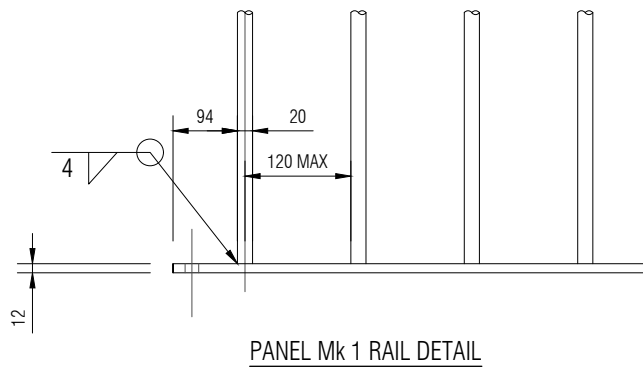
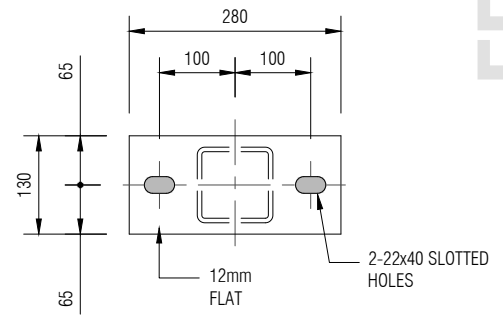
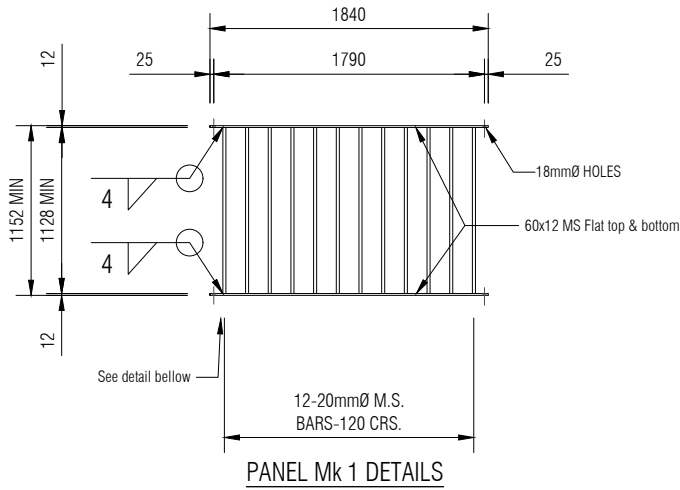
Date: 14/11/2024

SED No.

FE0005

Version

B



## NOTES

1. All dimensions are in millimetres and levels are in metres.
2. All steel components must be hot dip galvanised in accordance with AS/NZS4680
3. The Fence type F is designed to comply with minimum imposed action for barriers, type C3 (table 3.3 of AS/NZS 1170.1)
4. Structural steel sections shall be hot dip galvanised for corrosion protection to suit the corrosion category in accordance with NZ standards to provide a time for first maintenance of at least 25 years.
5. Structural hollow sections shall be grade C350
6. All steel work design and fabrication to be in accordance with NZS3404 & AS/NZS 5131.



## TDM TECHNICAL STANDARDS

Fence type F (Sheet 3 of 3)

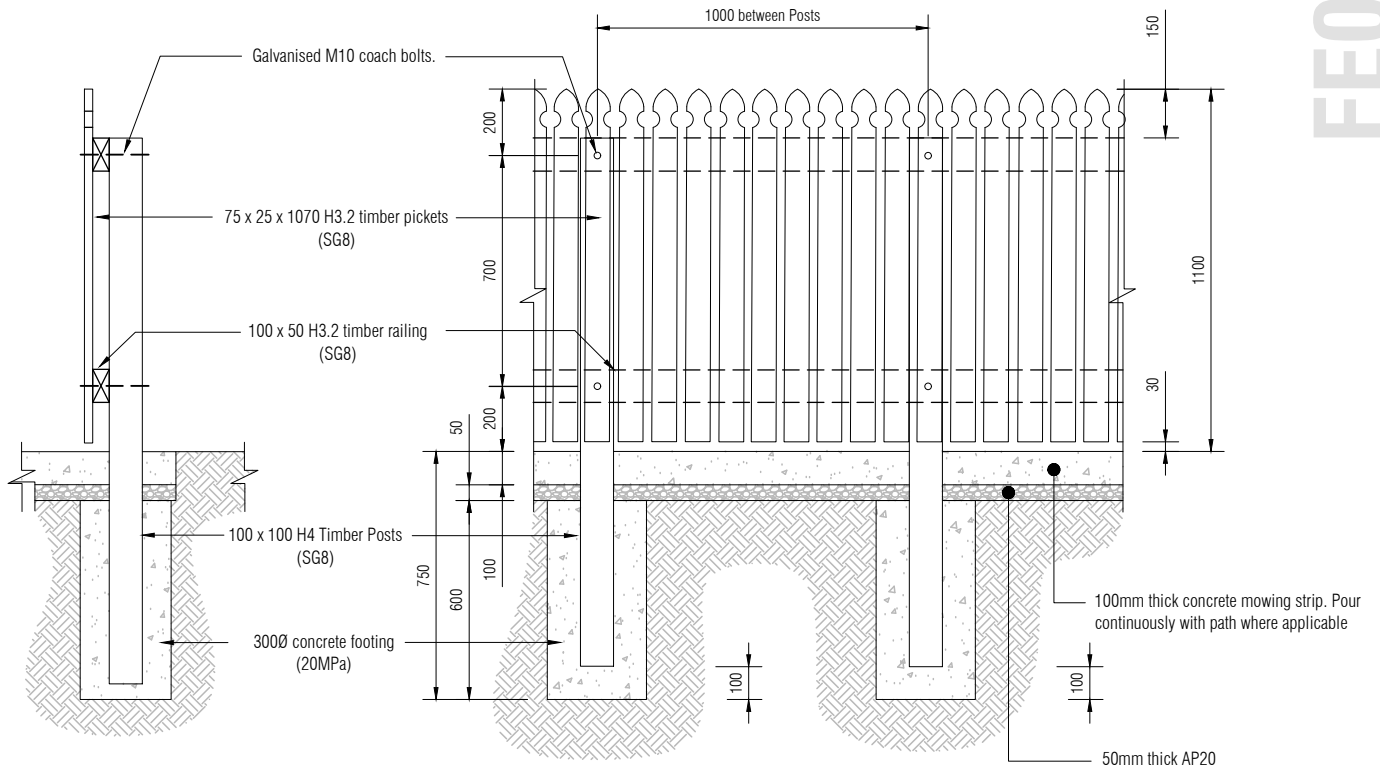
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SED No.

FE0006

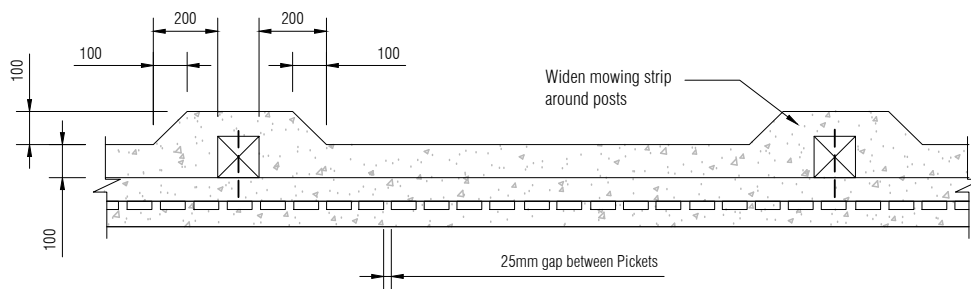
Version

B



TYPICAL SIDE ELEVATION

TYPICAL FRONT ELEVATION



TYPICAL PLAN

## NOTES

1. All dimensions are in millimetres and levels are in metres.
2. All workmanship of timber elements shall be in accordance with AS/NZS 1720.1 and NZS 3604
3. All timber elements must have a minimum level of durability as specified in NZS 3602 and NZS 3604
4. All timber posts shall be H4 treated, all timber railing and pickets shall be H3 treated
5. All timber connections shall be Grade 316 stainless steel unless otherwise
6. All concrete workmanship and materials shall be in accordance with the current version of NZS 3101 and NZS 3109.



## TDM TECHNICAL STANDARDS

Typical picket fence detail

Date: 14/11/2024

SED No.

FE0007

Version

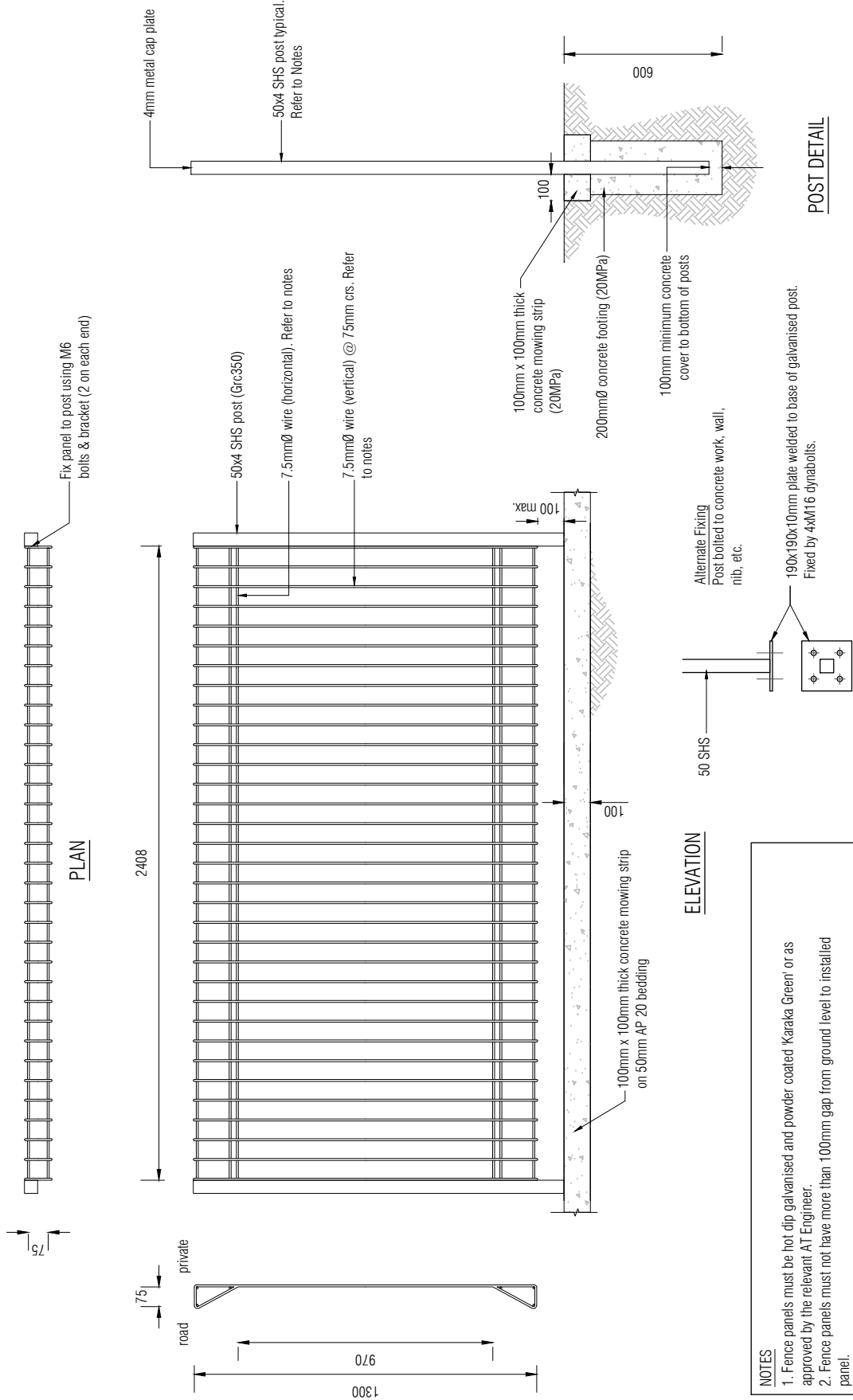
B





TDM TECHNICAL STANDARDS

Typical wire fence detail A





## TDM TECHNICAL STANDARDS

Typical wire fence detail B

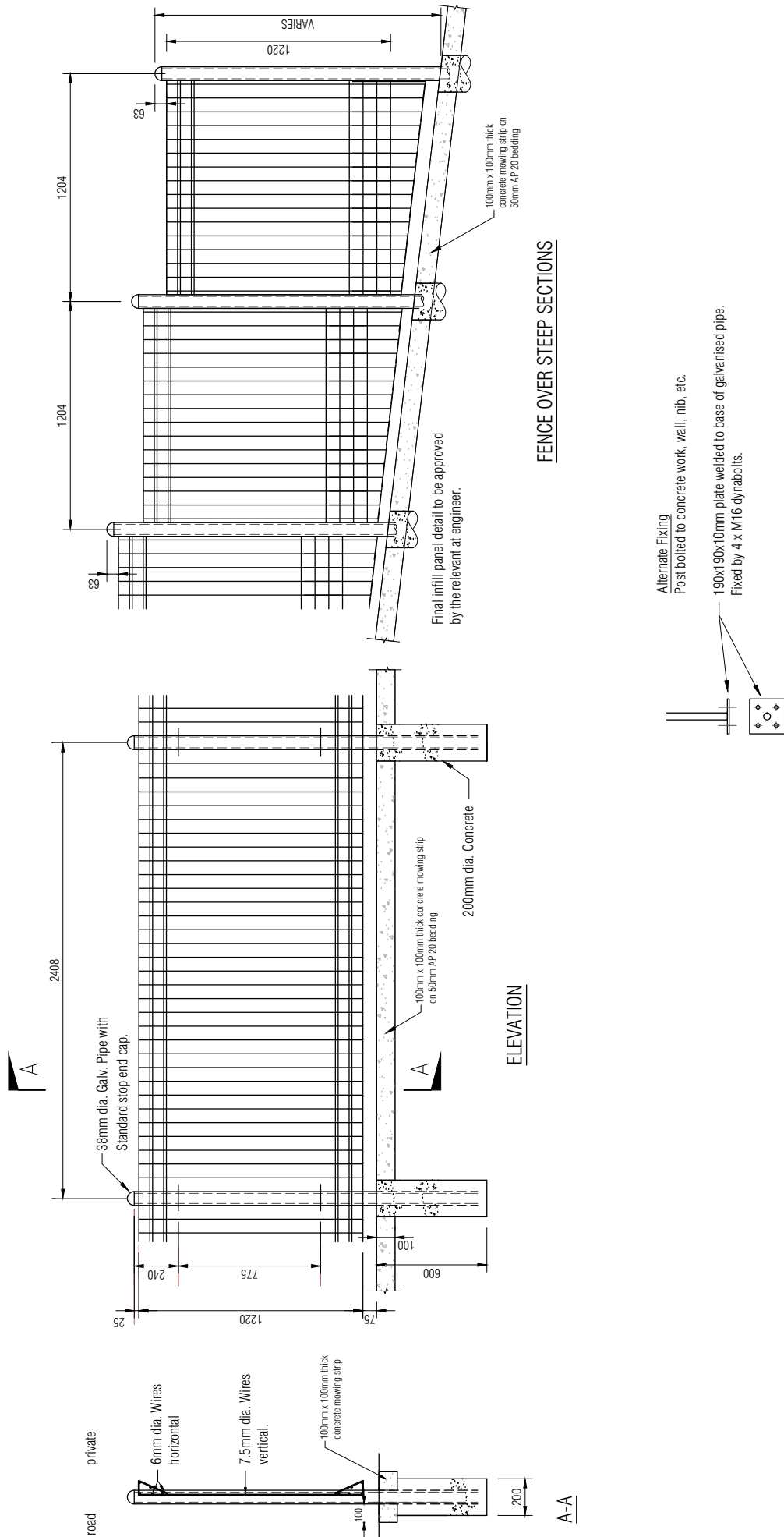
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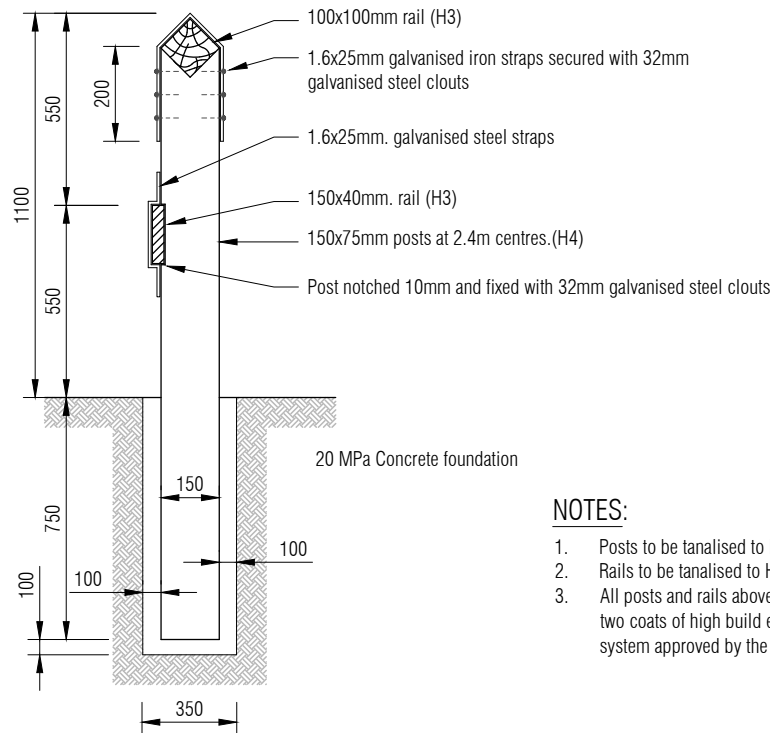
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Version

C



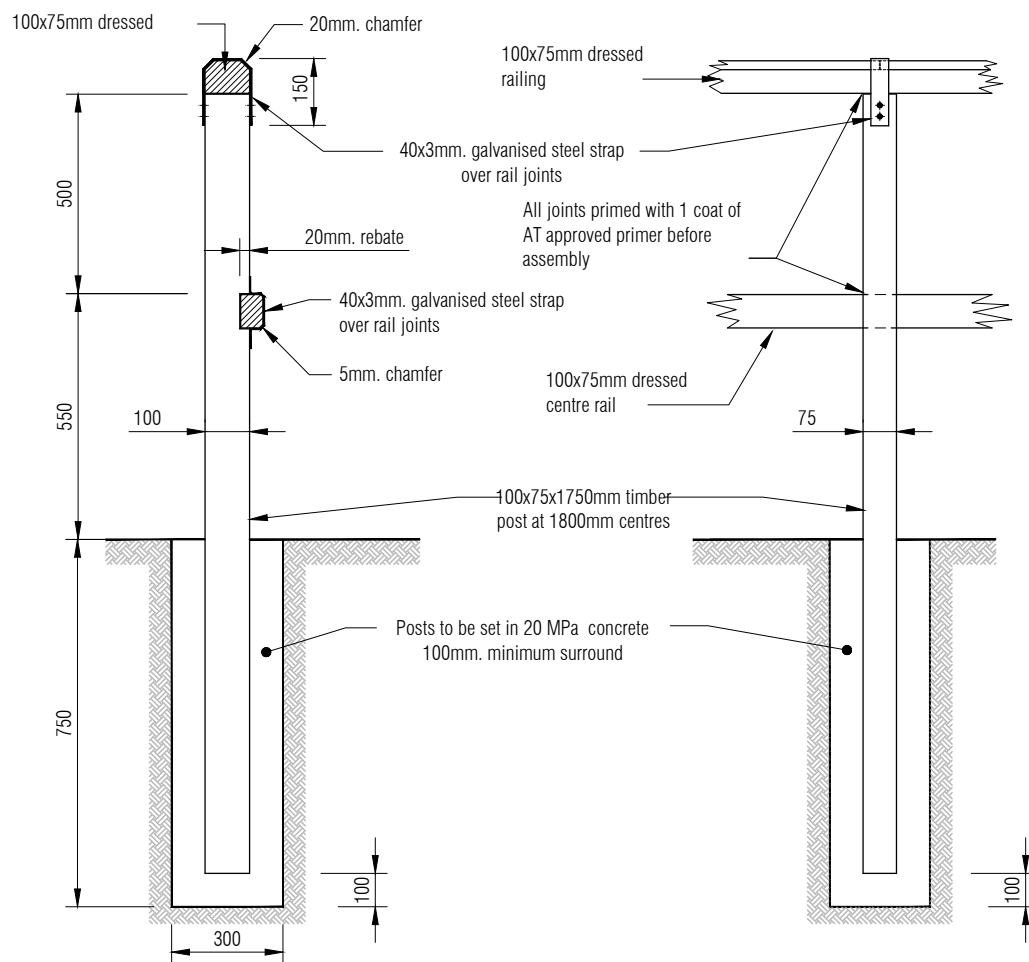
FE0009



## NOTES:

1. Posts to be tanalised to H4 standard.
2. Rails to be tanalised to H3 standard.
3. All posts and rails above ground are to be treated with two coats of high build enamel or similar painting system approved by the relevant AT Engineer.

## HANDRAIL TYPE A



## HANDRAIL TYPE B, END AND SIDE ELEVATION



## TDM TECHNICAL STANDARDS

Handrail type A &amp; B

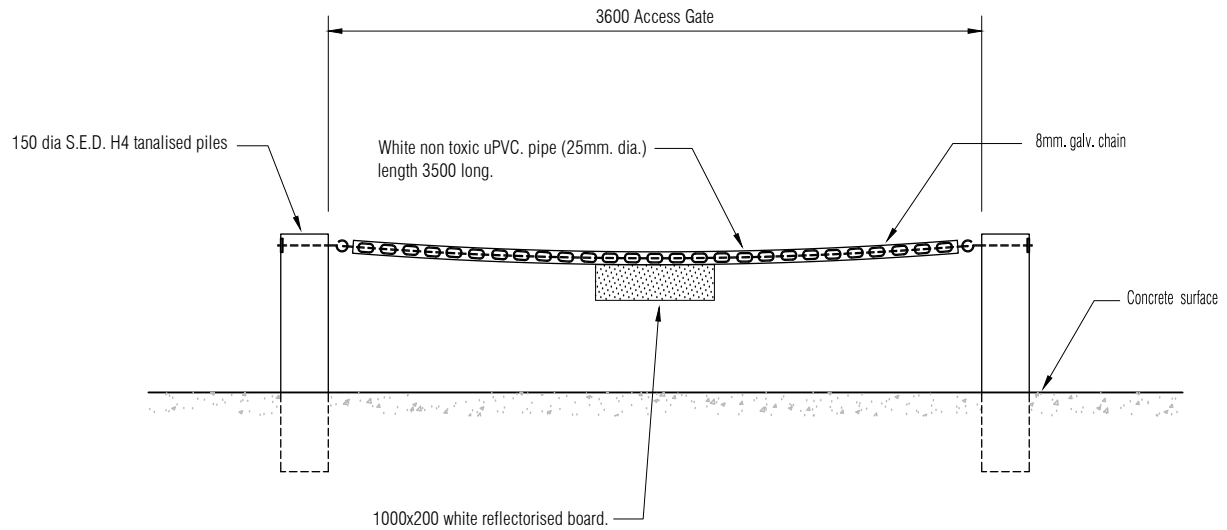
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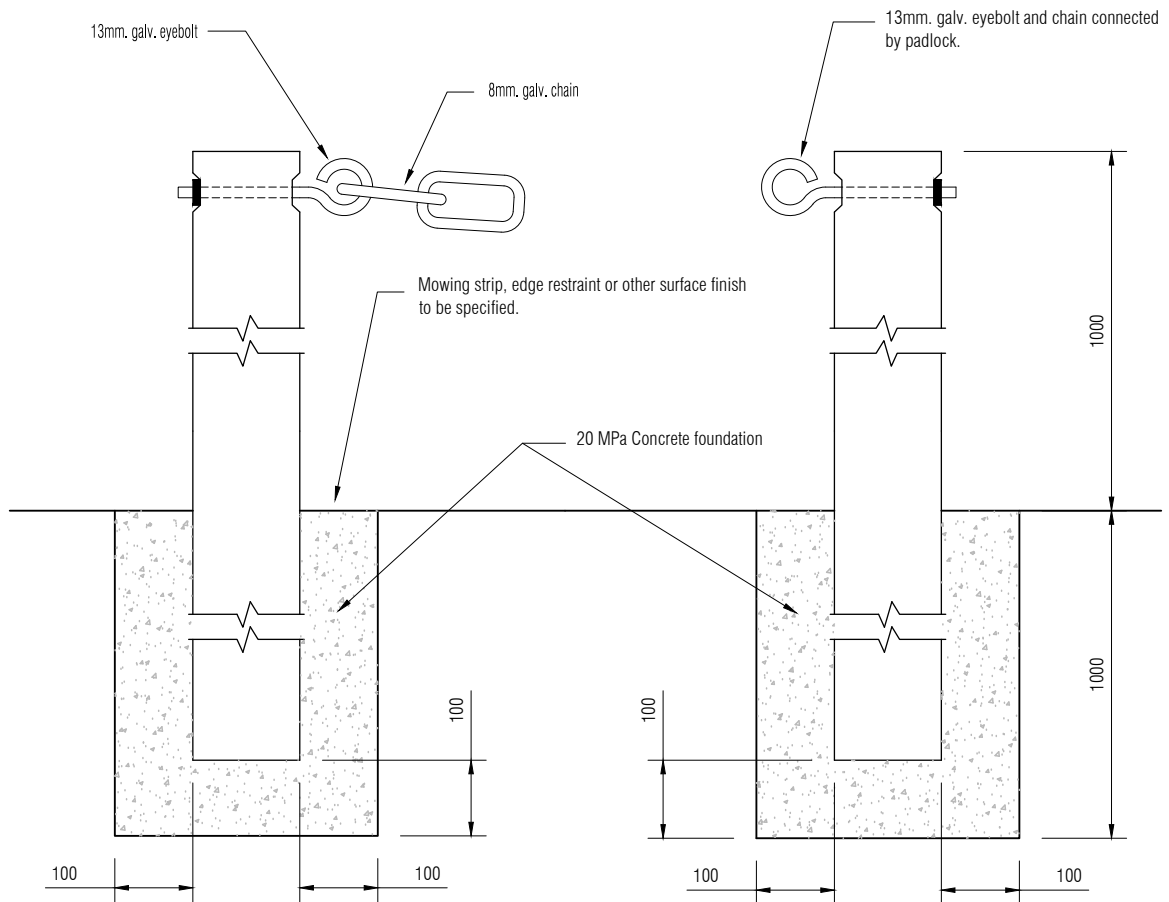
FE0010

Version

B



ELEVATION



DETAIL



## TDM TECHNICAL STANDARDS

Access barrier chain

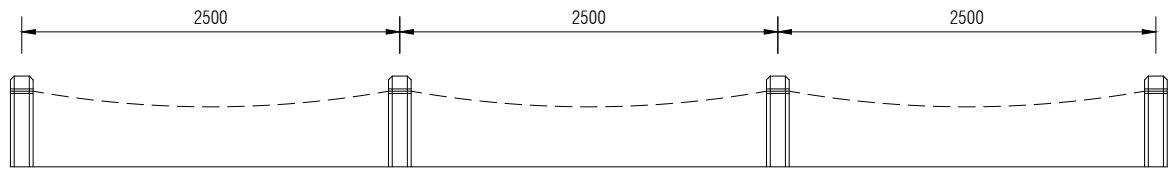
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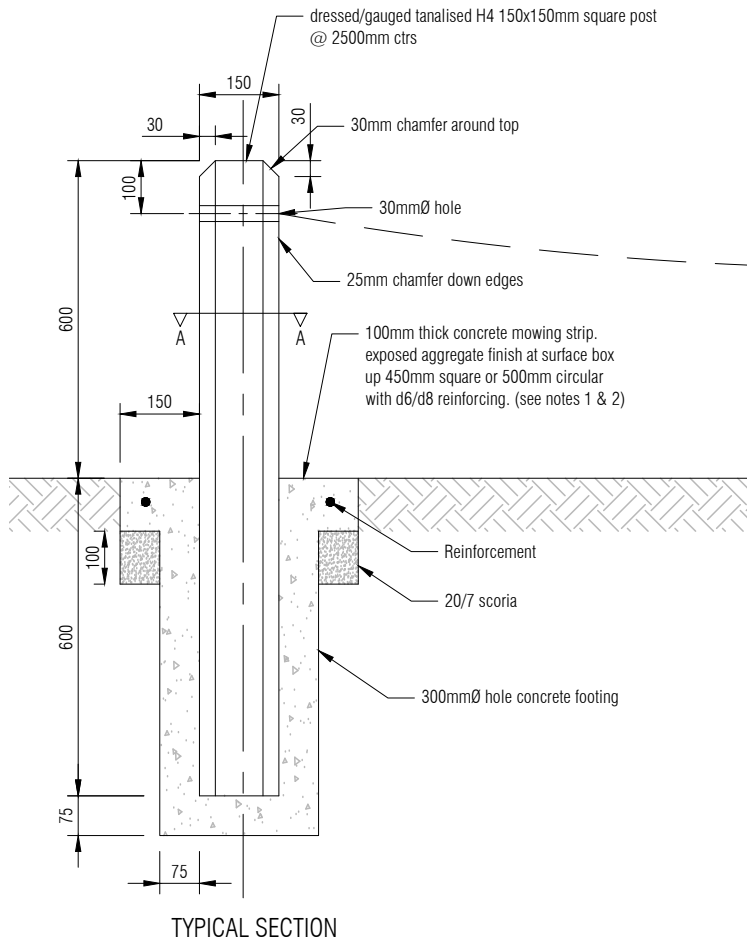
Version

B

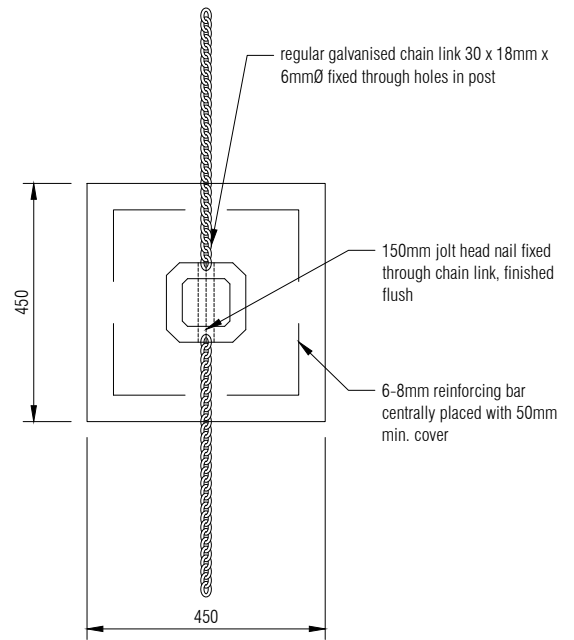


NOTE:  
where bollards are used without chain they should be placed  
@ 1500mm ctrs (and must have no holes in posts)

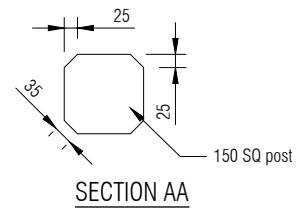
ELEVATION



TYPICAL SECTION



PLAN



SECTION AA

## NOTES

1. Slab finish 10-13mm aggregate, exposed using Auckland Transport approved product to provide even aggregate finish and waterblasted to remove slurry and produce even exposed finish.
2. Reinforcing bar 6-8mm, centrally placed, ensure minimum 50mm coverage of concrete.
3. Reinststate with topsoil & grassing to be flush with concrete.
4. All concrete must be 20Mpa



## TDM TECHNICAL STANDARDS

Wooden bollard & chain fence details

Date: 14/11/2024

SED No.

FE0012

Version

B