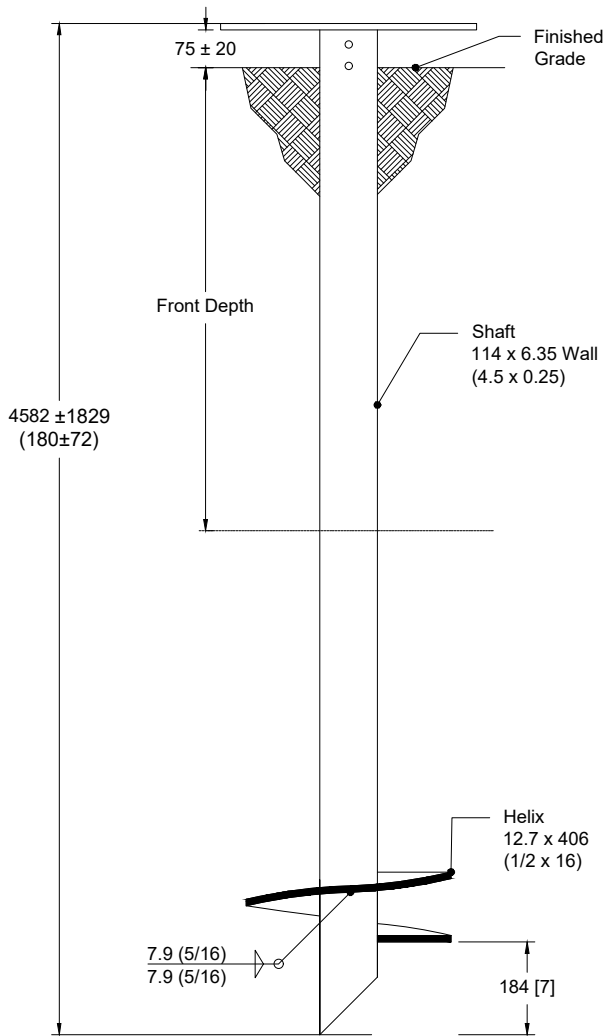


Meewasin Valley Authority
Standard Amenity Specifications

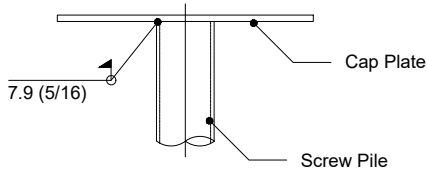
Meewasin Valley Authority
February 22, 2023

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1 Pipe Detail



2 Typical Pile Cap Detail

General Notes

-all dimensions in millimetres [inches in brackets]

PILE DESIGN SPECIFICATIONS

Pile design loads (service or working loads):

- As Per CCMC Report 13691-R

1. Design Criteria

a) Soil assumed to be generally as follows:

Soil Layer

- Stiff clay or dense sand

2. Pile installer to use calibrated equipment and create pile installation report (including torque and depth readings).

- Maximum install torque - 27.1 kN-m (20.0 ft-kip)

- Minimum install torque - 5.4 kN-m (4.0 ft-kip)

- Minimum embedment - 2.1m (7.0 ft)

4. If minimum torque is not achieved extensions should be added to achieve greater embedment and/or greater torque.

5. Minimum pile per embedment helix must be situated below maximum frost penetration depth.

6. Tolerances:

- pile top to be located within 40mm (1.5 in) of centre of applied load.

- pile to be installed within 1.5 degrees of vertical

7. Structural steel members shall conform to:

CAN/CSA S16-14 - Design of steel structures.

Pipe Shaft - minimum ASTM A252 Grade 3 Steel Pipe, seamless or straight welded. Helix Plate - ASTM A36 or CSA G40.21 W44 hot rolled structural steel plate.

8. Welding to conform to:

CSA W59 and CSA W47.1

Weld tensile strength = 490 MPa (71.1 ksi)

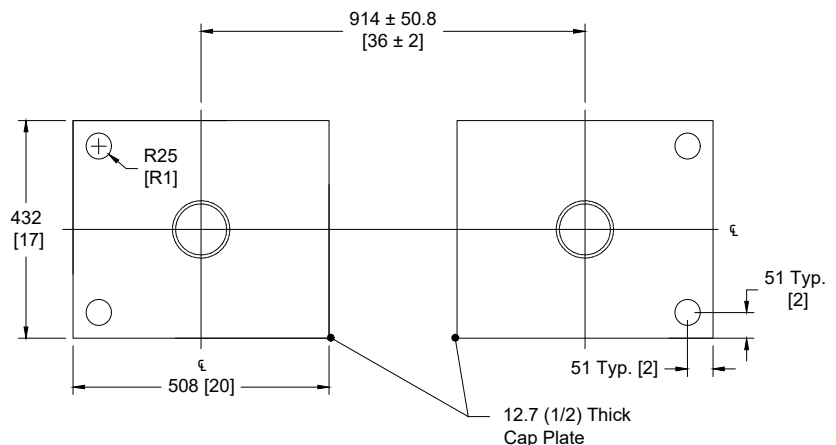
All welds to be $\frac{5}{16}$ " (7.9) fillet welds unless noted otherwise.

9. Fabrication shall be carried out in accordance with standard practices and all applicable codes.

10. Above design and components shall conform to the latest editions of the building code, N.B.C. and applicable building codes.

11. this design and information is special to Almita's product and is non-transferable to other manufactureres.

12. Maximum allowable load is 265.0 kN (59.6 kips)



3 Plan View

Drawing No:

2523.M01

Drawing Title:

Screw Pile – Primary Trailhead Sign

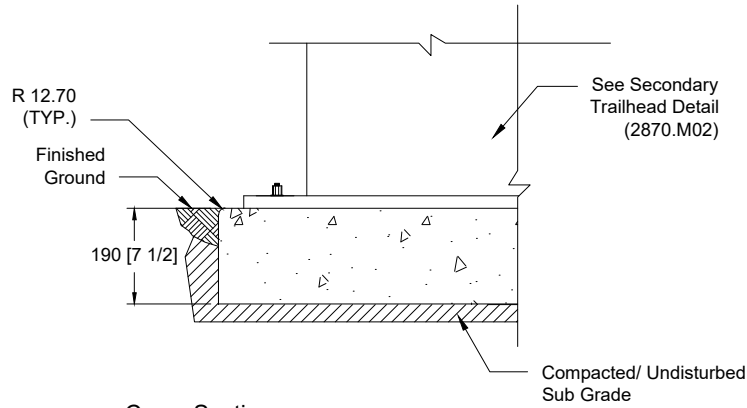
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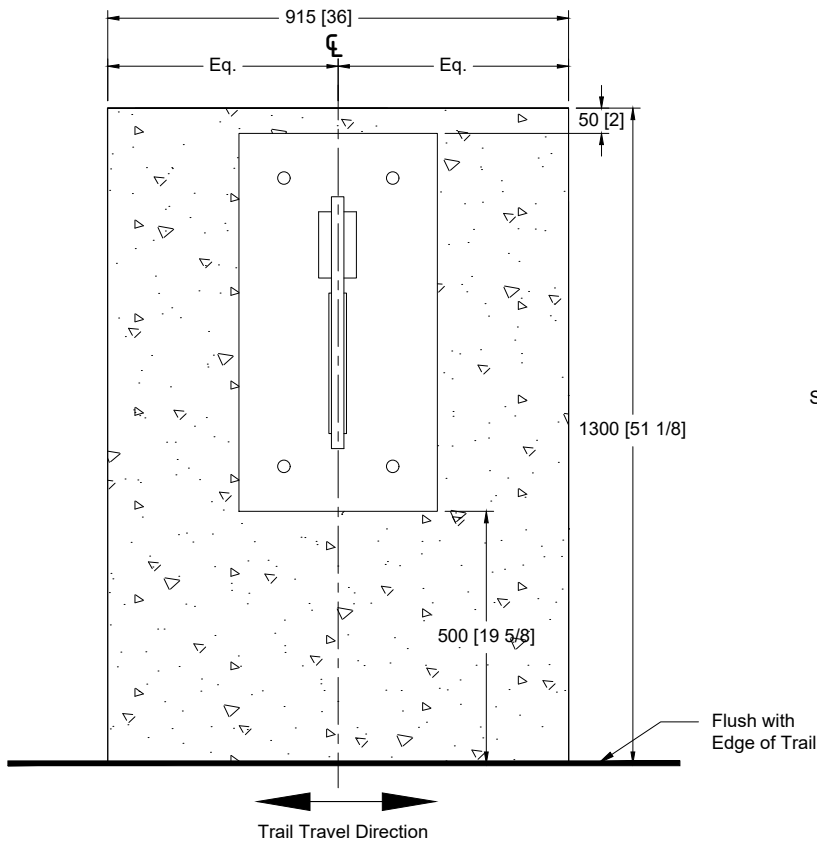
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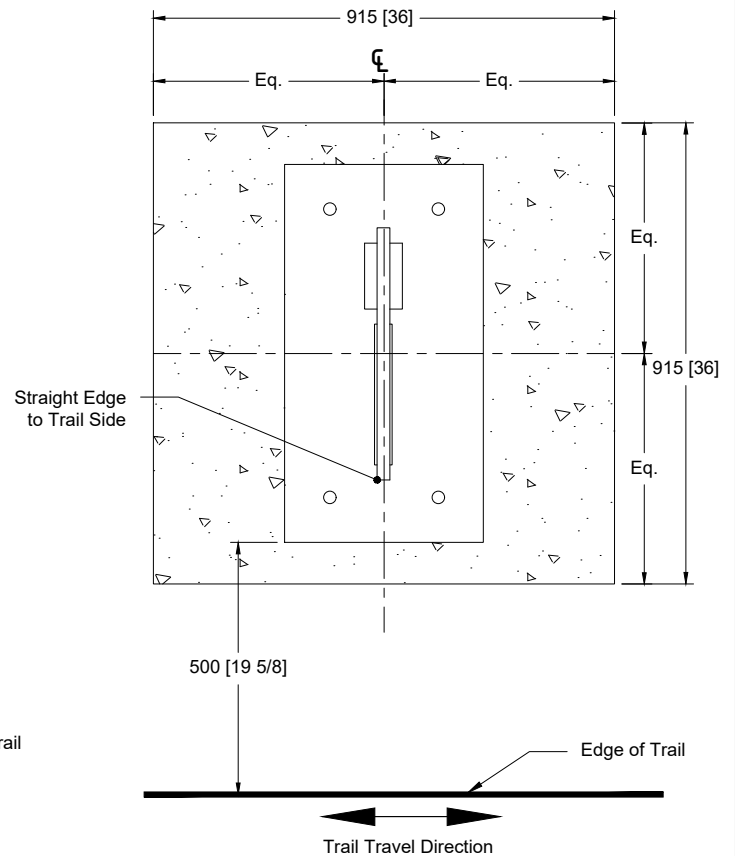
Meewasin



1 Cross Section



2 Plan View - Adjacent to Trail



3 Plan View - Paved Area

General Notes

- all dimensions in millimetres [inches in brackets]
- install sign perpendicular to trail direction of travel
- install sign with straight edge to trail side
- confirm locations with Consultant on-site prior to installation

Drawing No:

2523.M02

Drawing Title:

Concrete Footing: Secondary Trailhead Sign

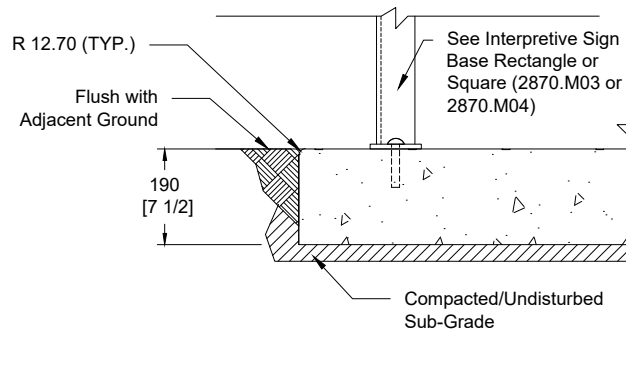
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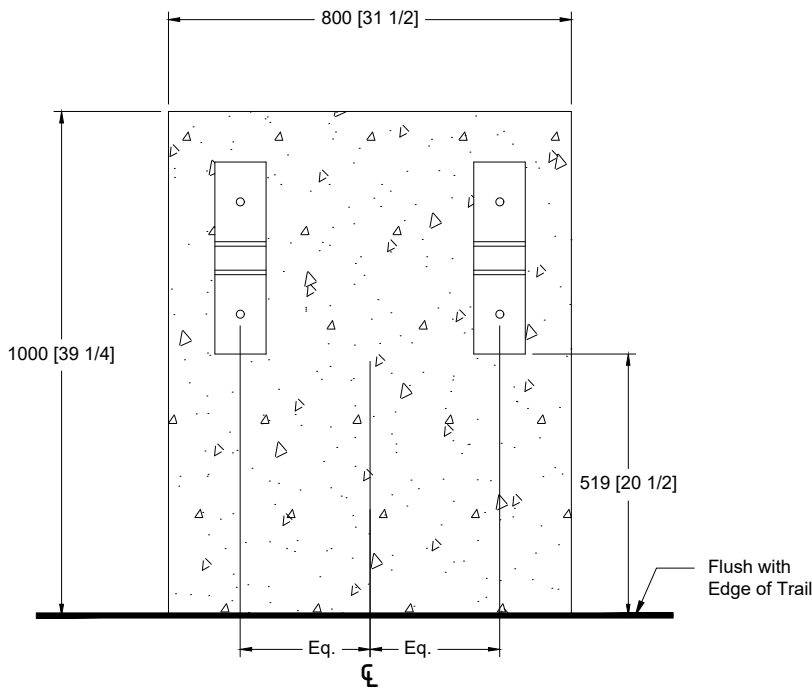
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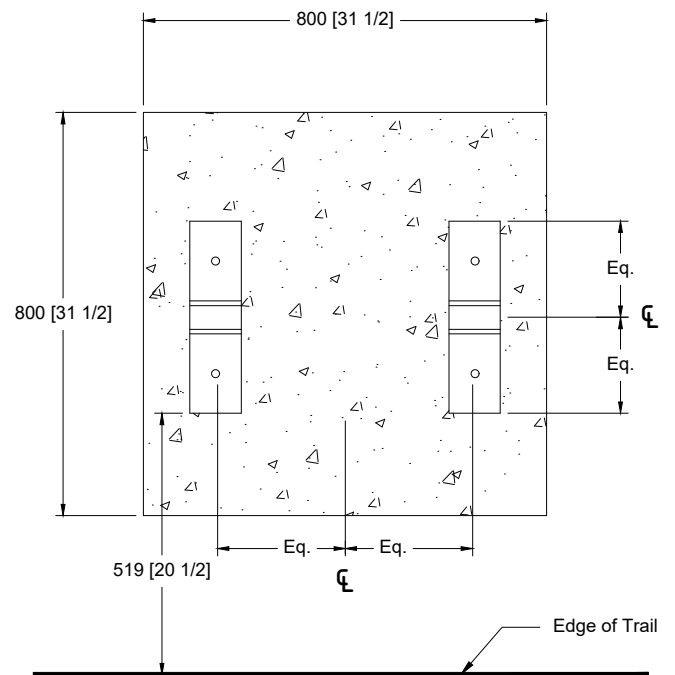
Meewasin



1 Cross Section



2 Plan View - Adjacent to Trail



3 Plan View - Paved Area

General Notes

- all dimensions in millimetres [inches in brackets]
- confirm locations with Consultant on-site prior to installation

Drawing No:

2523.M03

Drawing Title:

Concrete Footing: Interpretive Sign

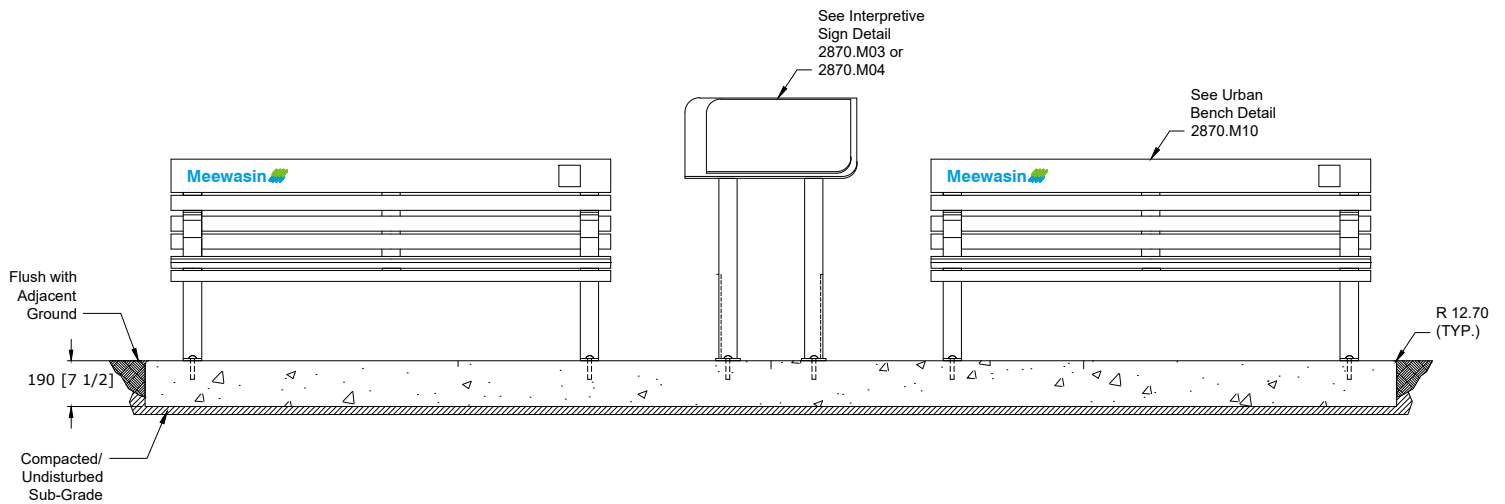
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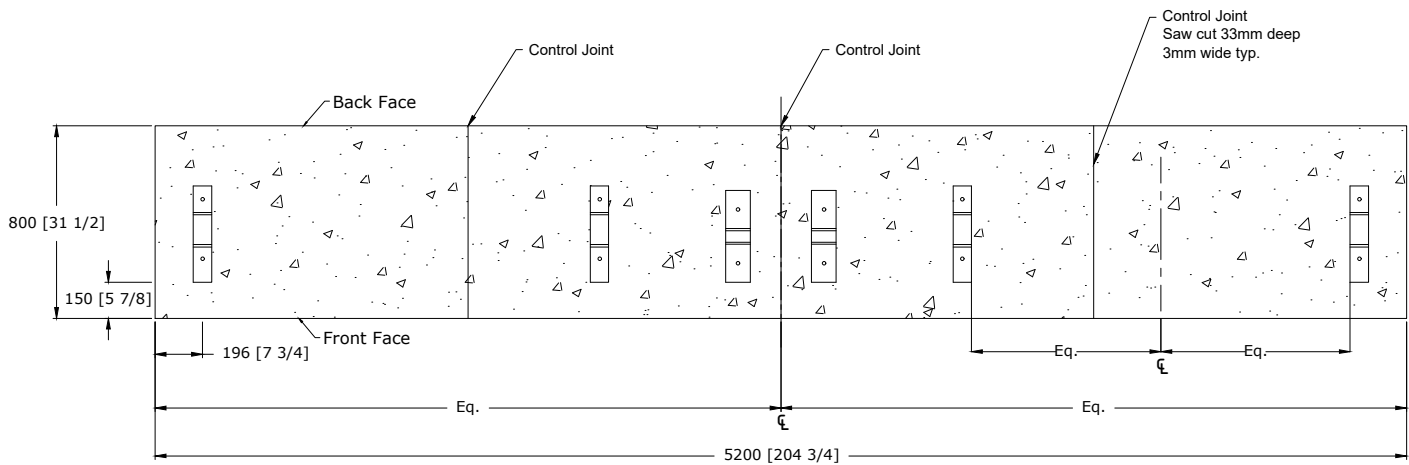
Date: M/D/YY 04/07/20

Scale: NTS

Meewasin



1 Front Elevation



2 Plan View

General Notes

- all dimensions in millimetres [inches in brackets]
- confirm all locations with Consultant on-site prior to installation

Drawing No:

2523.M04

Drawing Title:

Concrete Footing: Double Bench Bay
with Interpretive Sign

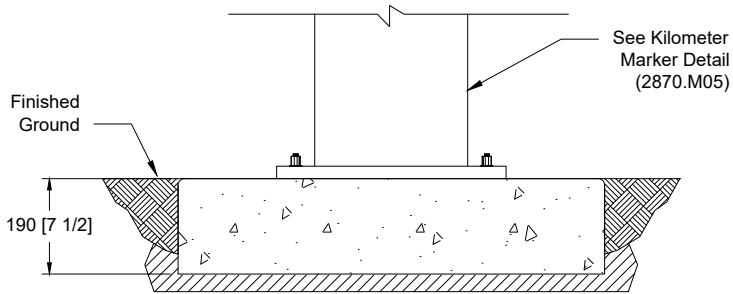
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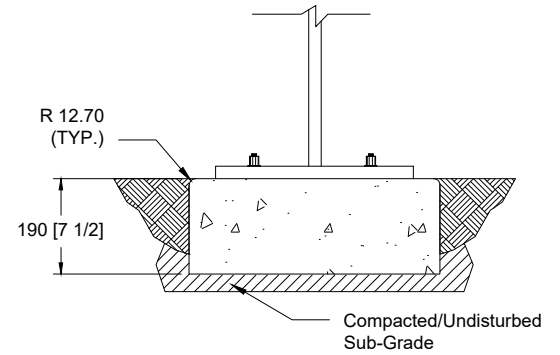
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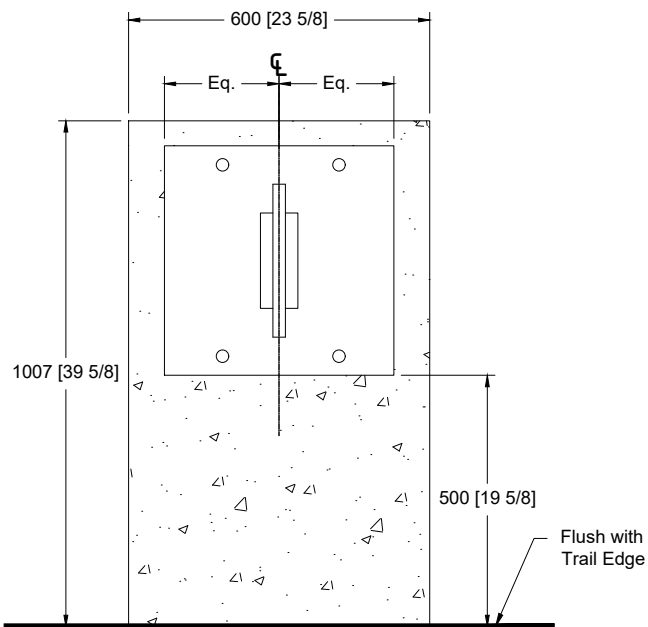
Meewasin



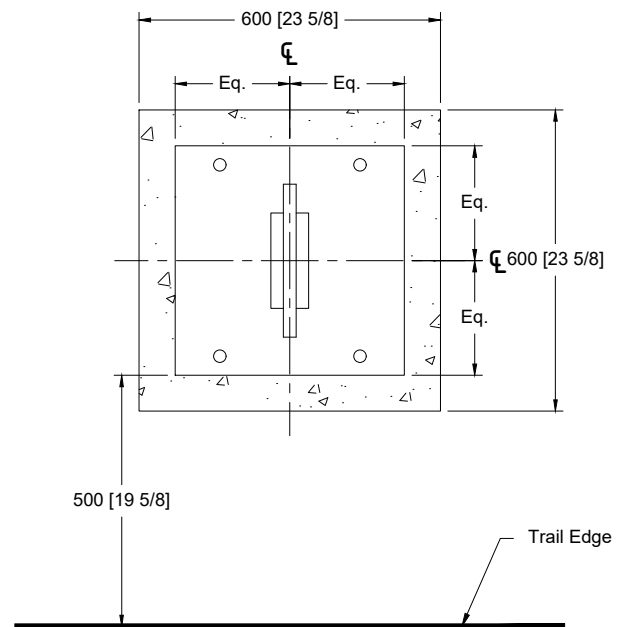
1 Front View



2 Side View



3 Plan View - Adjacent to Trail



4 Plan View - Paved Area

General Notes

- all dimensions in millimetres [inches in brackets]
- install sign perpendicular to trail direction of travel
- install sign with straight edge to trail side
- confirm locations with Consultant on-site prior to installation

Drawing No:

2523.M05

Drawing Title:

Concrete Footing: Kilometer Marker

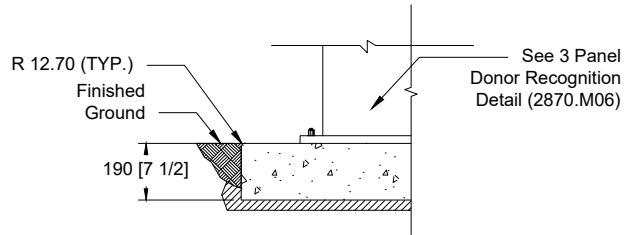
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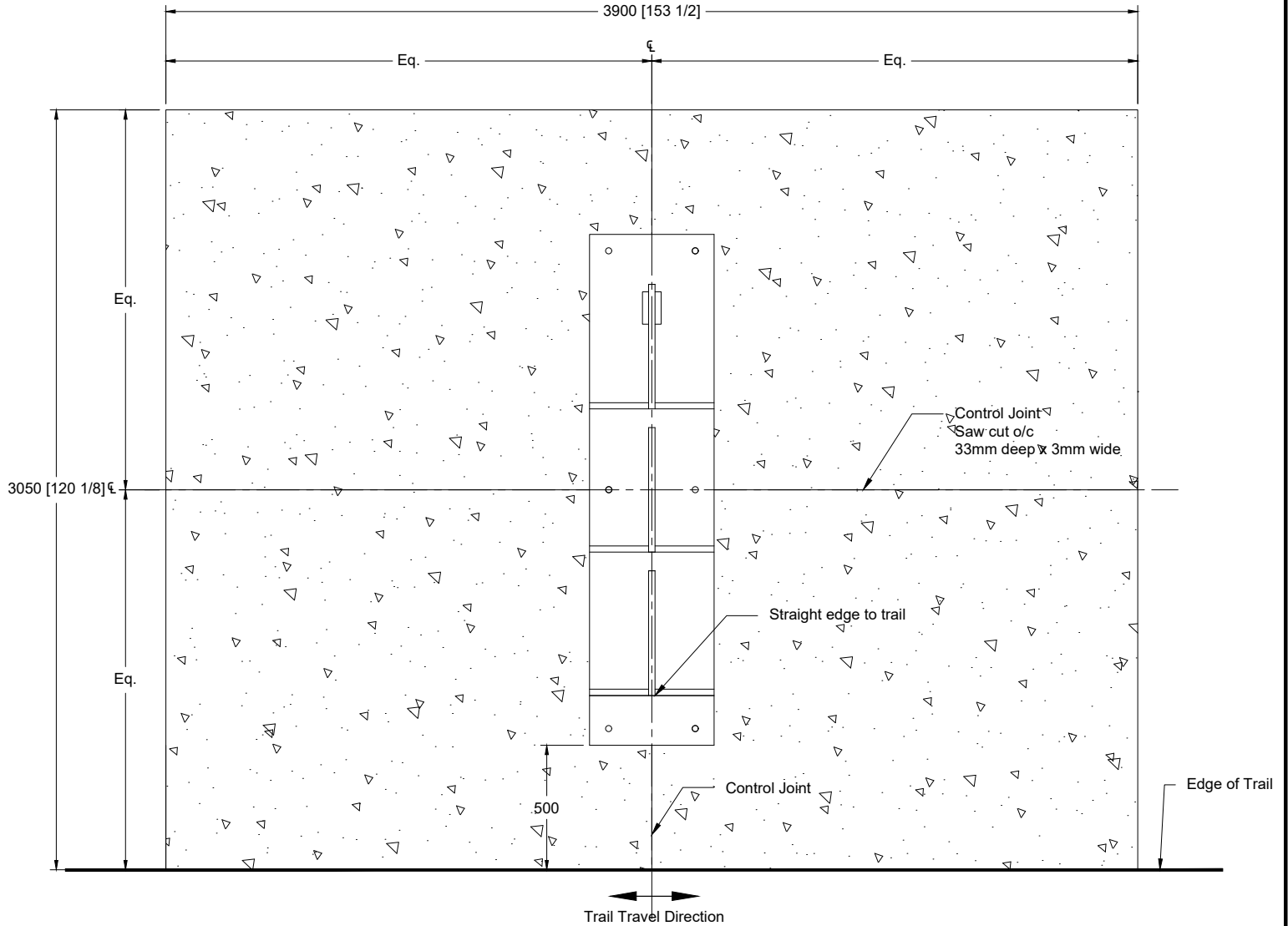
Date: M/D/YY 06/04/20

Scale: NTS

Meewasin



① Front View



② Plan View

General Notes

- all dimensions in millimetres [inches in brackets]
- confirm locations with Consultant on-site prior to installation

Drawing No:

2523.M06

Drawing Title:

Concrete Footing: 3 Panel Donor Recognition Sign

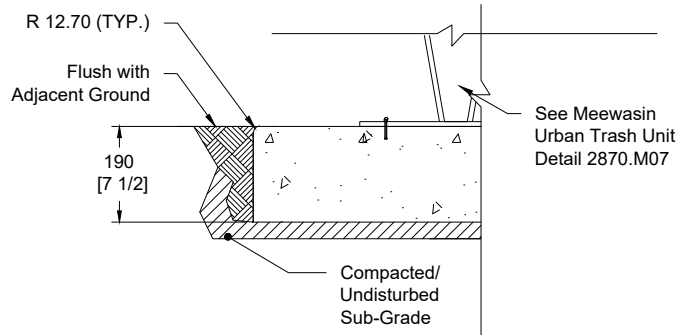
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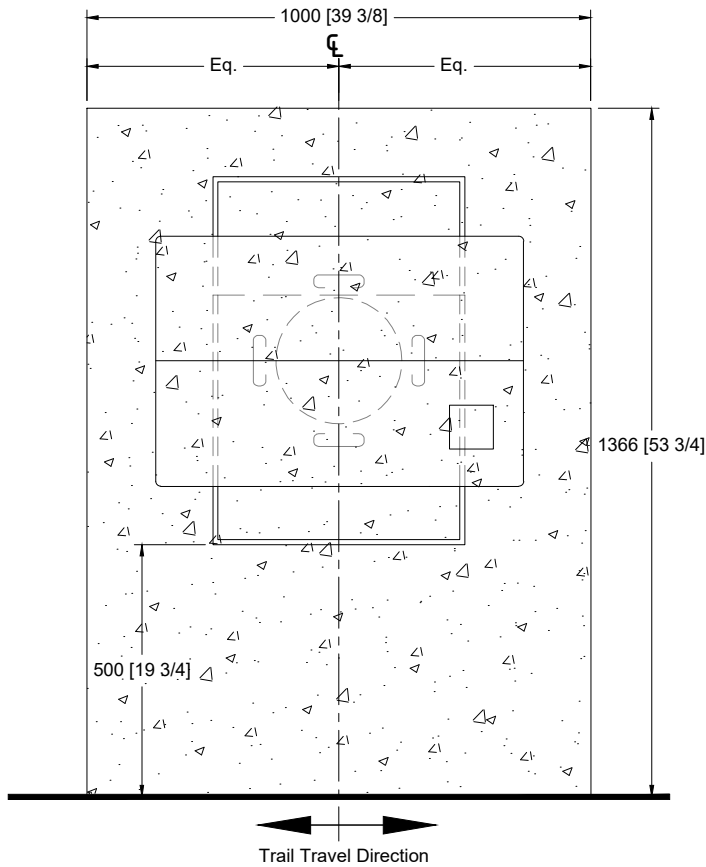
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Scale: NTS

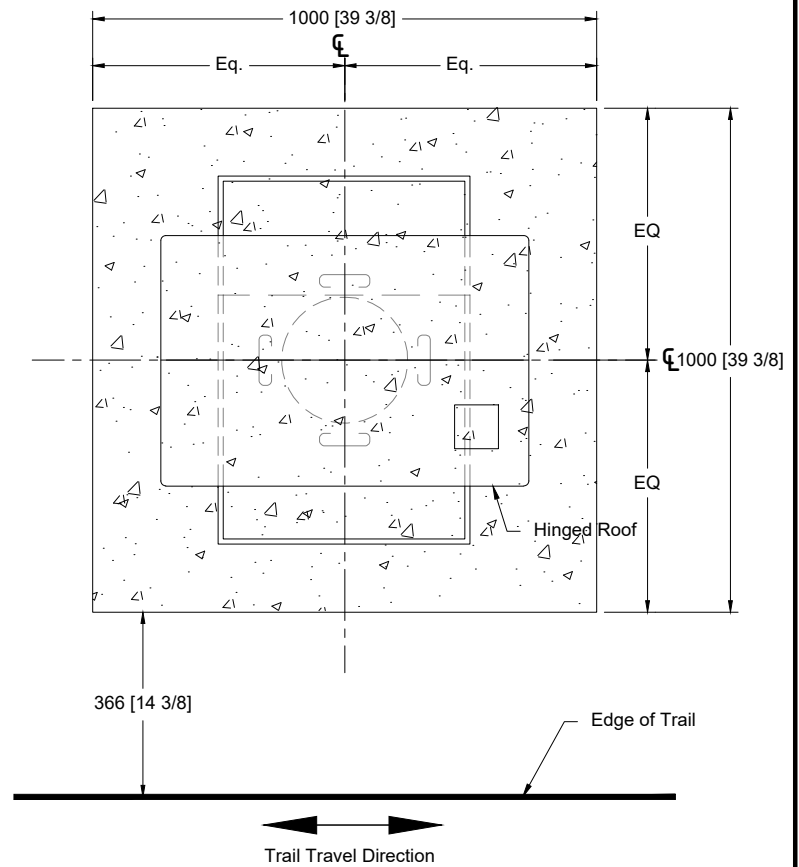
Meewasin



1 Cross Section



2 Plan View - Adjacent to Trail



2 Plan View - Paved Area

General Notes

- all dimensions in millimetres [inches in brackets]
- confirm all locations with Consultant on-site prior to installation
- orient hinged roof to face trail

Drawing No:

2523.M07

Drawing Title:

Concrete Footing: Meewasin Urban Trash Unit

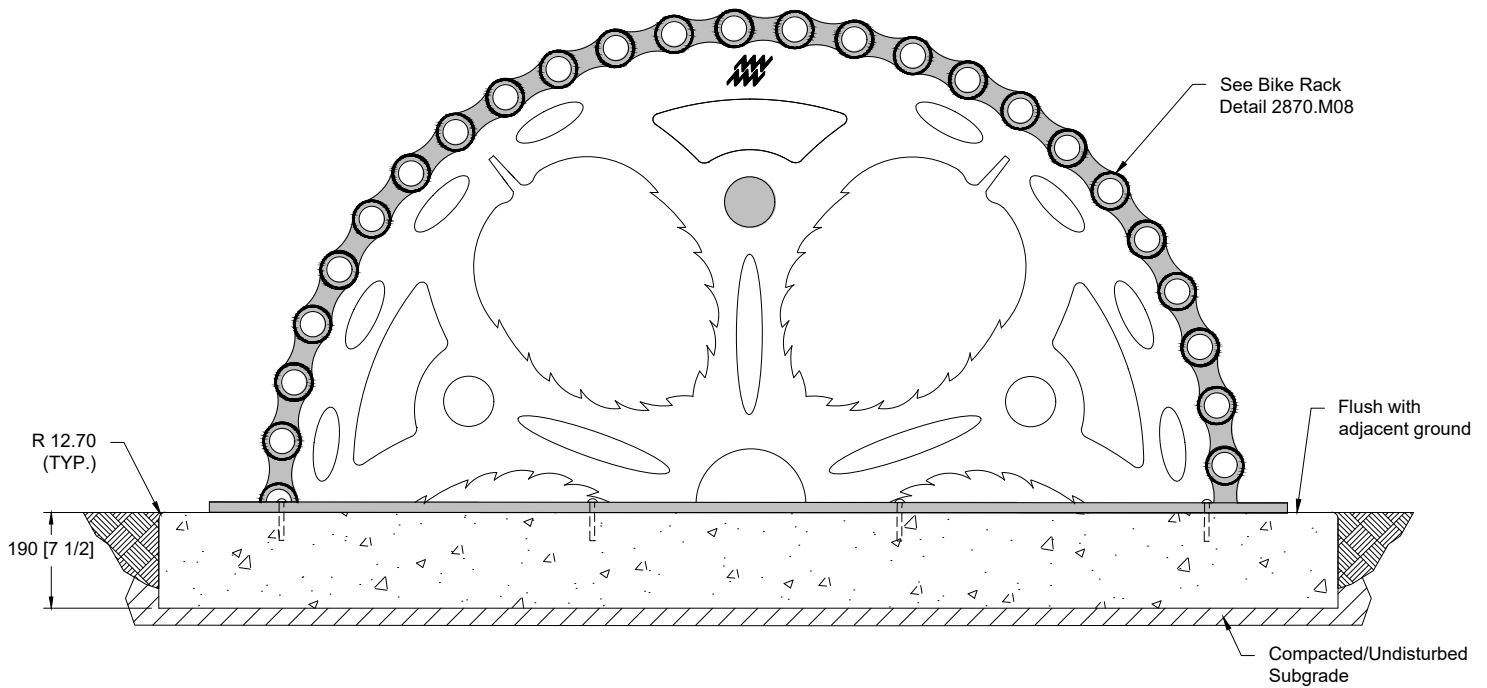
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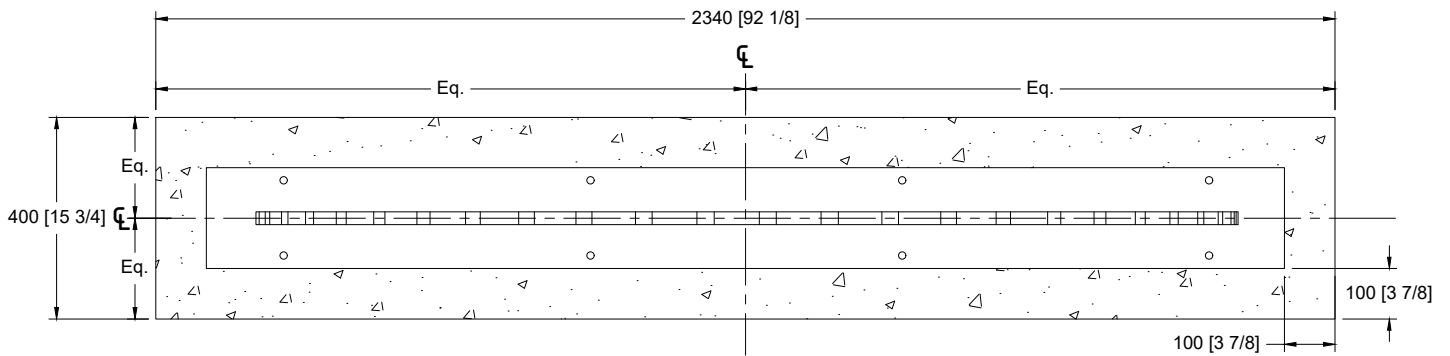
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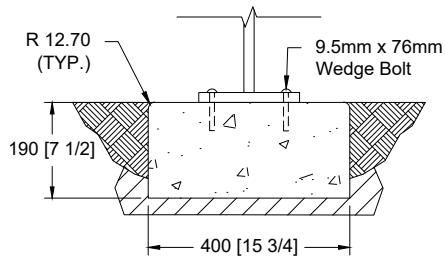
Meewasin



1 Front View



2 Plan View



3 Side View

General Notes

- all dimensions in millimetres [inches in brackets]
- confirm locations with Consultant on-site prior to installation

Drawing No:

2523.M08

Drawing Title:

Concrete Footing: Bike Rack – Gear

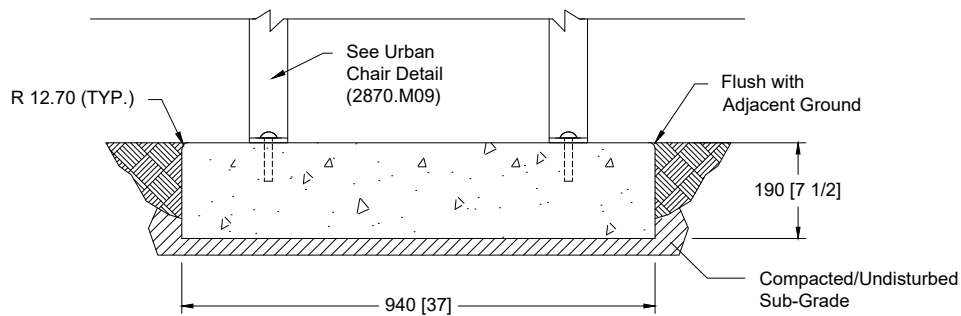
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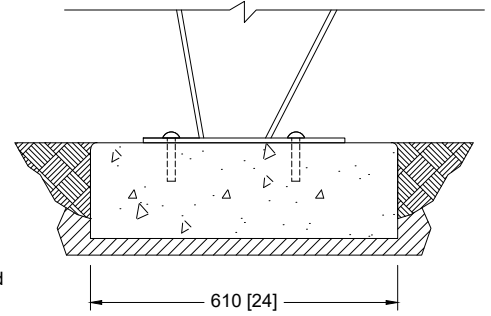
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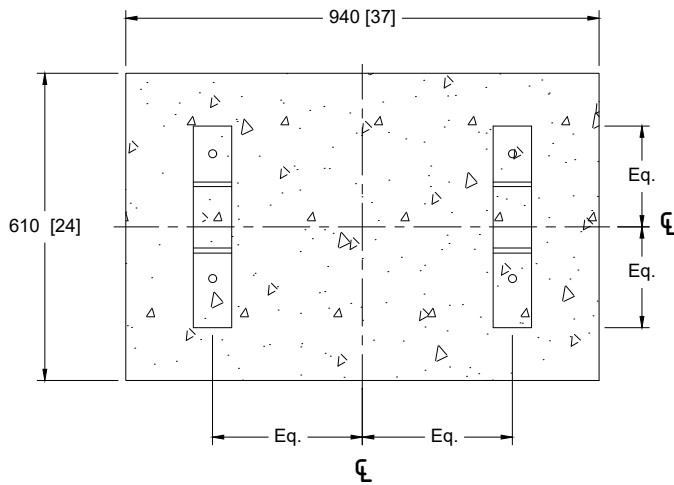
Meewasin



1 Front View



2 Side View



3 Plan View

General Notes

- all dimensions in millimetres [inches in brackets]
- confirm locations with Consultant on-site prior to installation

Drawing No:

2523.M09

Drawing Title:

Concrete Footing: Chair – Urban

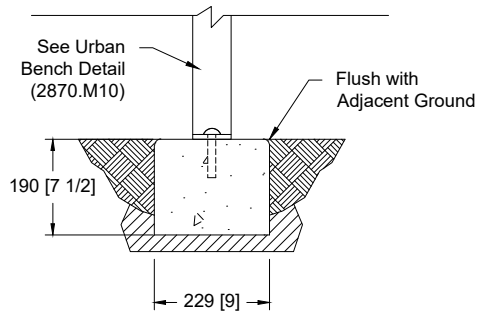
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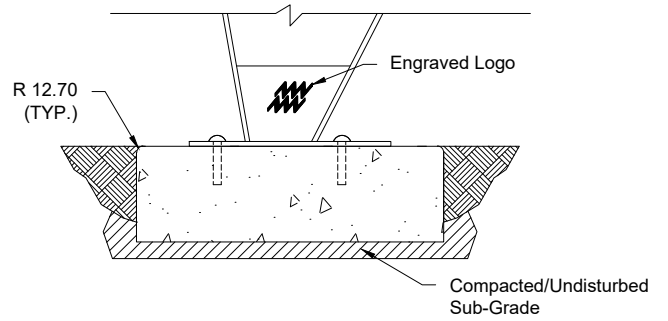
Date: 04/26/21

Scale: NTS

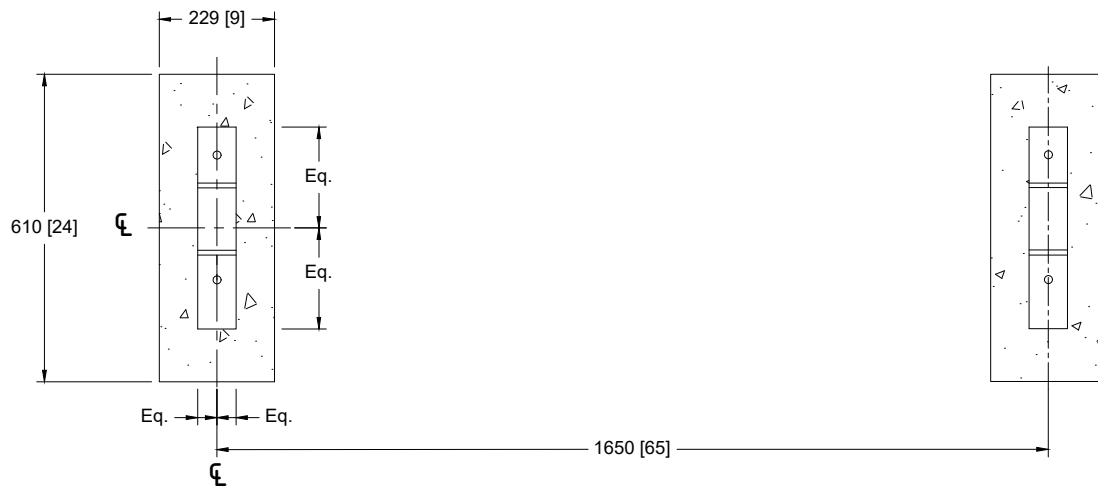
Meewasin



1 Typical Front View



2 Typical Side View



3 Typical Plan View

General Notes

- all dimensions in millimetres [inches in brackets]
- confirm locations with Consultant on-site prior to installation
- See detail 2523.M12 for Bench Bay Layout

Drawing No:

2523.M10

Drawing Title:

Concrete Footing: Bench – Urban

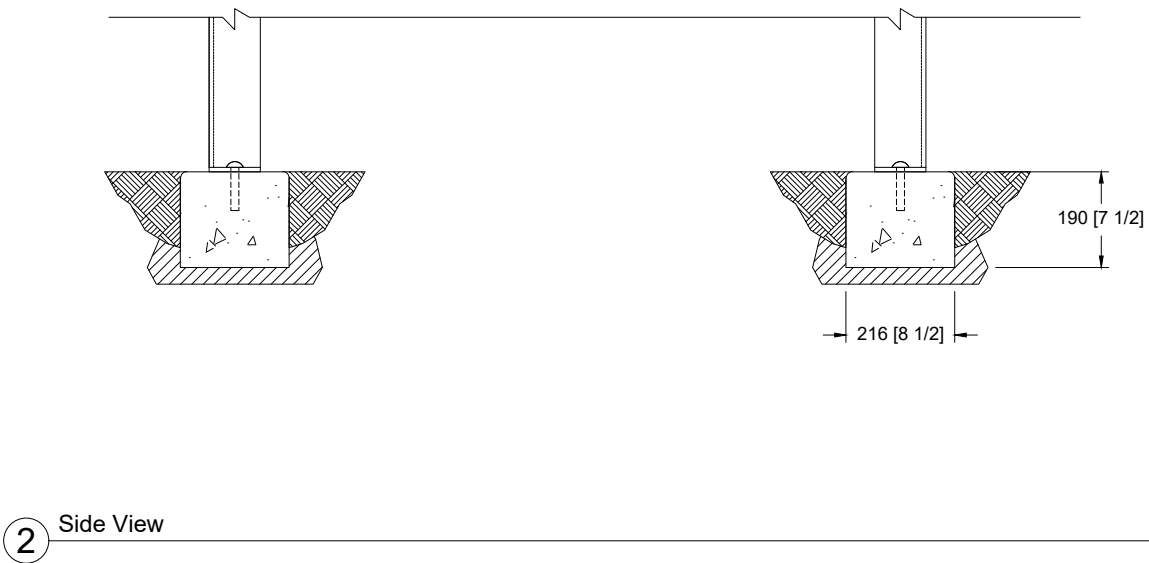
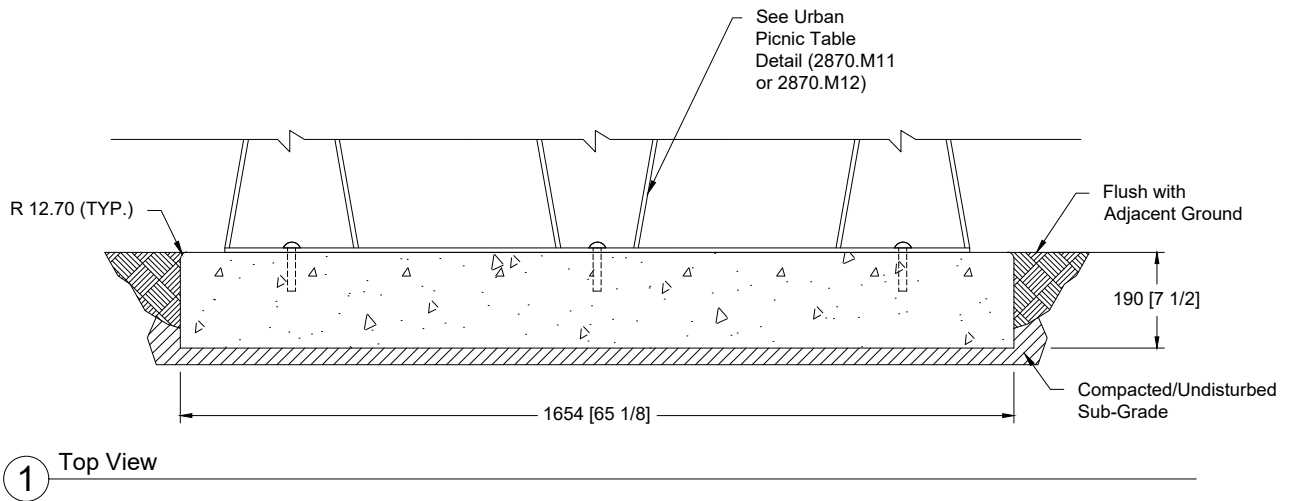
Drawn: AM/CG

Checked: AO

Date: 04/26/21

Scale: NTS

Meewasin



General Notes

- all dimensions in millimetres [inches in brackets]
- confirm locations with Consultant on-site prior to installation

Drawing No:

2523.M11

Drawing Title:

Concrete Footing: Picnic Table

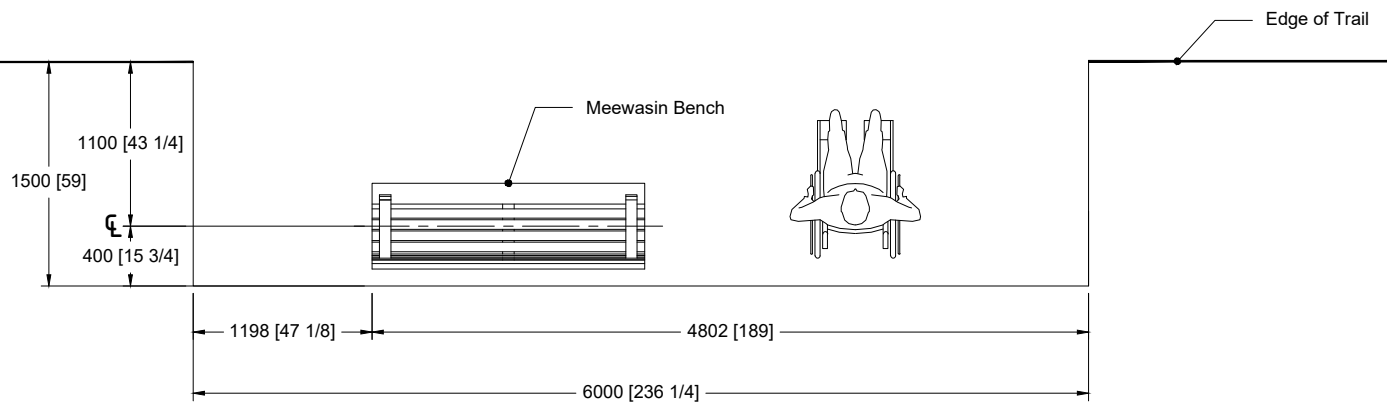
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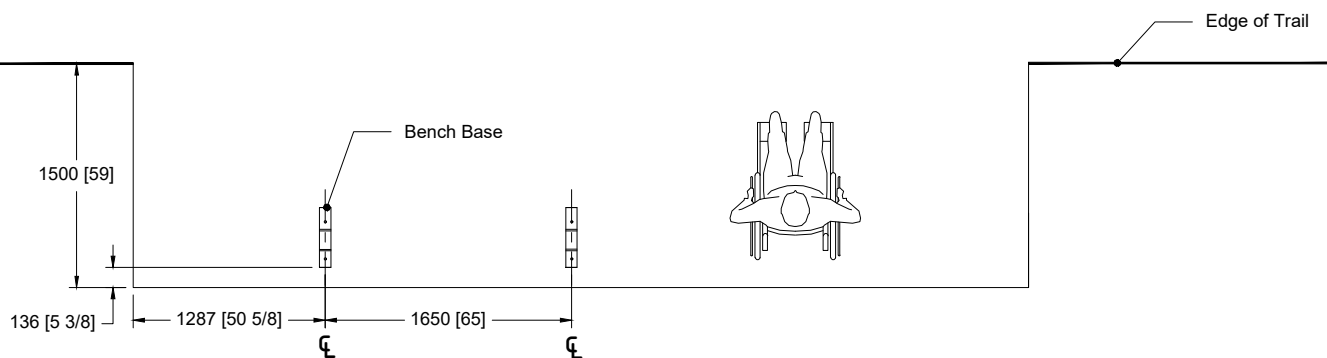
Date: M/D/YY 04/07/20

Scale: NTS

Meewasin



1 Plan View - Bench



2 Plan View - Base

General Notes
-all dimensions in millimetres [inches in brackets]

Drawing No:

2523.M12

Drawing Title:

Concrete Footing: Bench Bay Layout

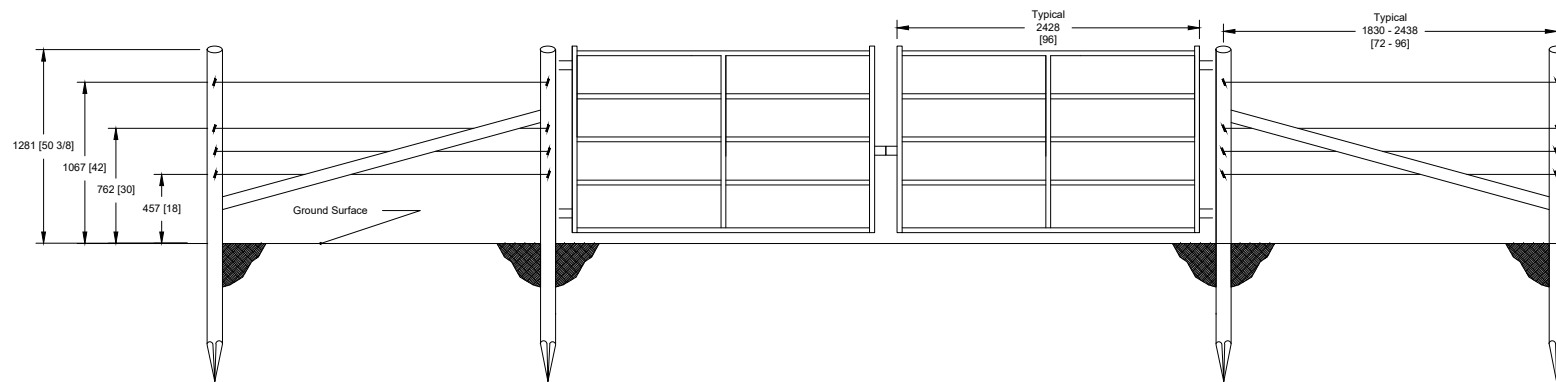
Drawn: JS

Checked: AO

Date: M/D/YY 12/02/22

Scale: NTS

Meewasin 



General Notes
-all dimensions in millimetres [inches in brackets]

Drawing No:

2831.M02

Drawing Title:

Service Vehicle Access Gate

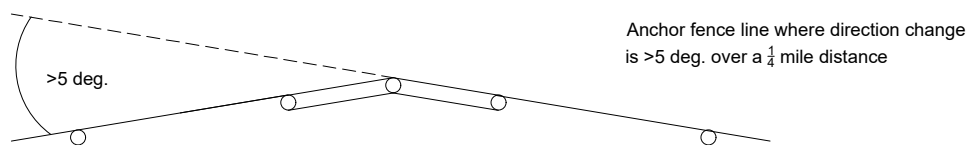
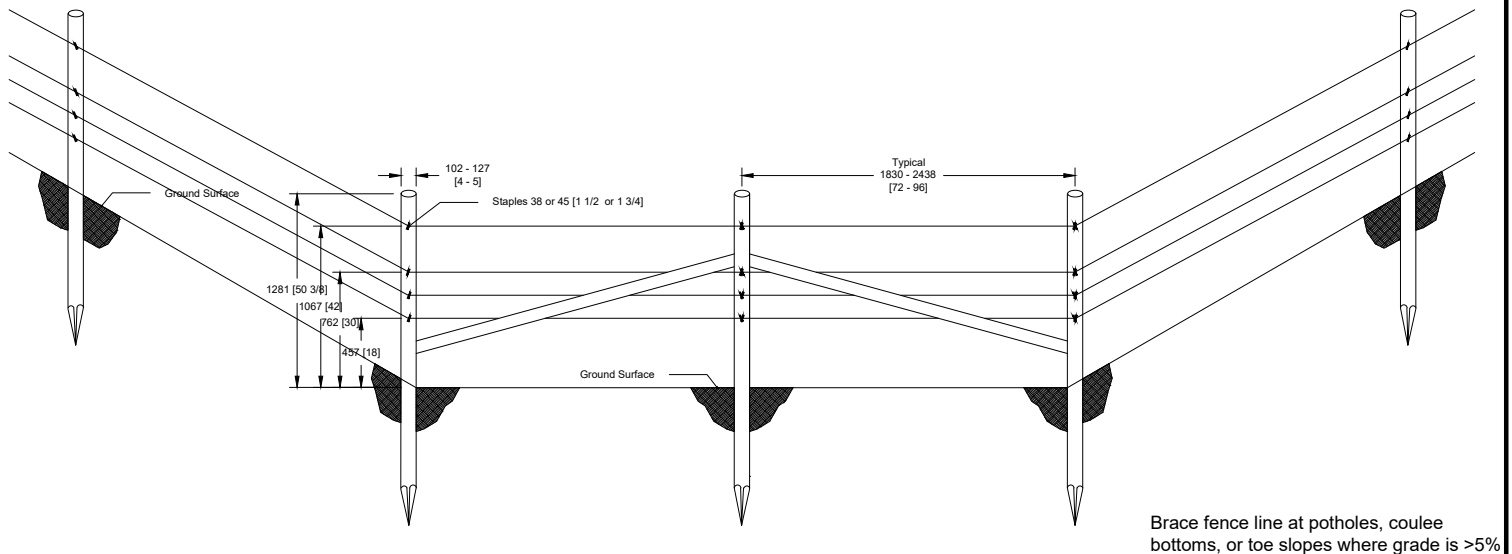
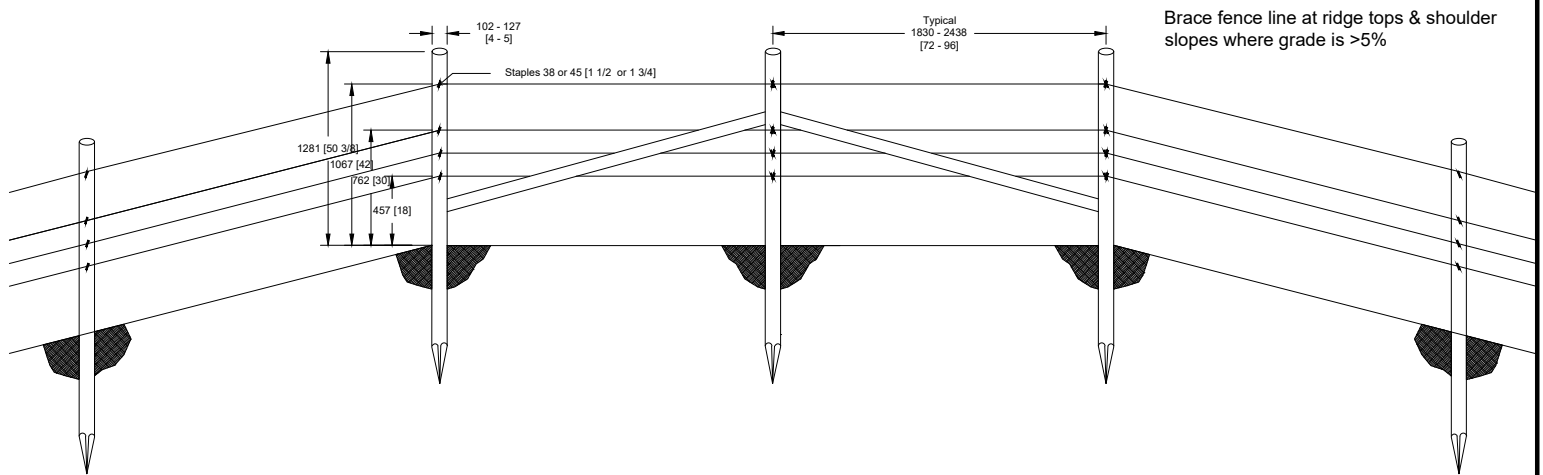
Drawn: AM

Checked: AO

Date: M/D/YY 06/02/20

Scale: NTS

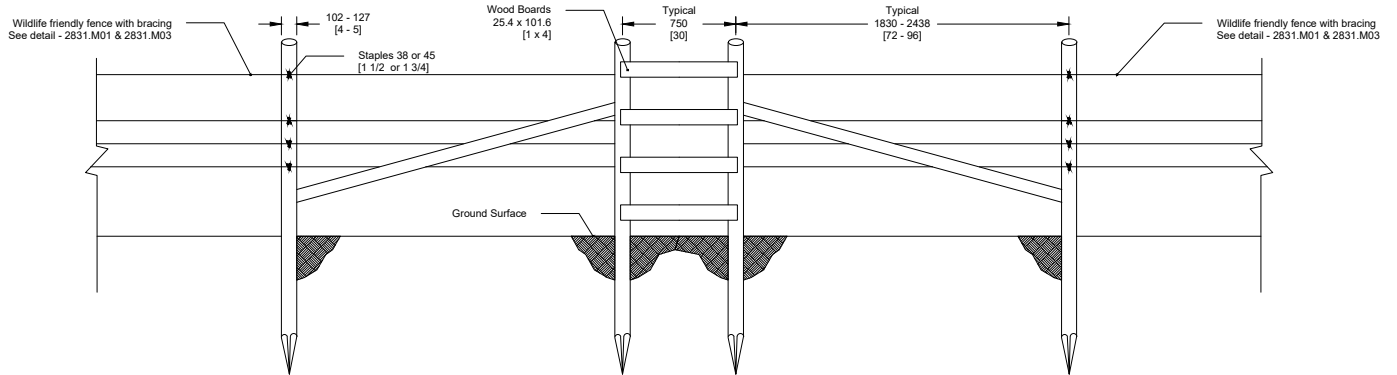
Meewasin 



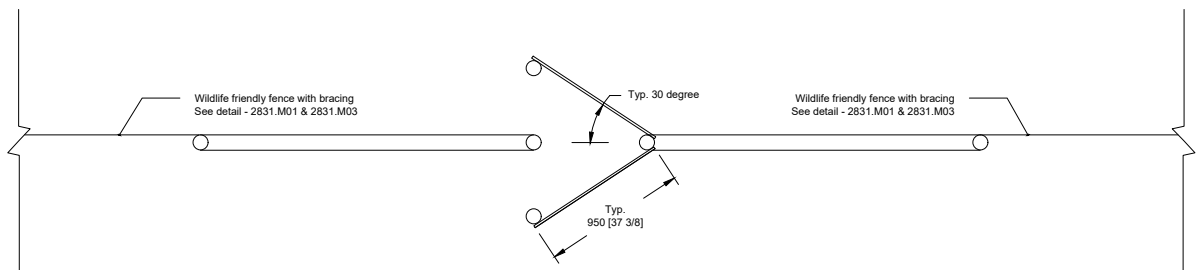
General Notes
-all dimensions in millimetres [inches in brackets]

Drawing No:	Drawing Title:			
2831.M03	Fence Bracing			
Drawn:	AM	Checked:	AO	Date: M/D/YY 06/02/20
		Scale:		NTS

Meewasin



1 Side View



2 Plan View

General Notes
-all dimensions in millimetres [inches in brackets]

Drawing No:

2831.M04

Drawing Title:

Fencing — Pedestrian Y Opening

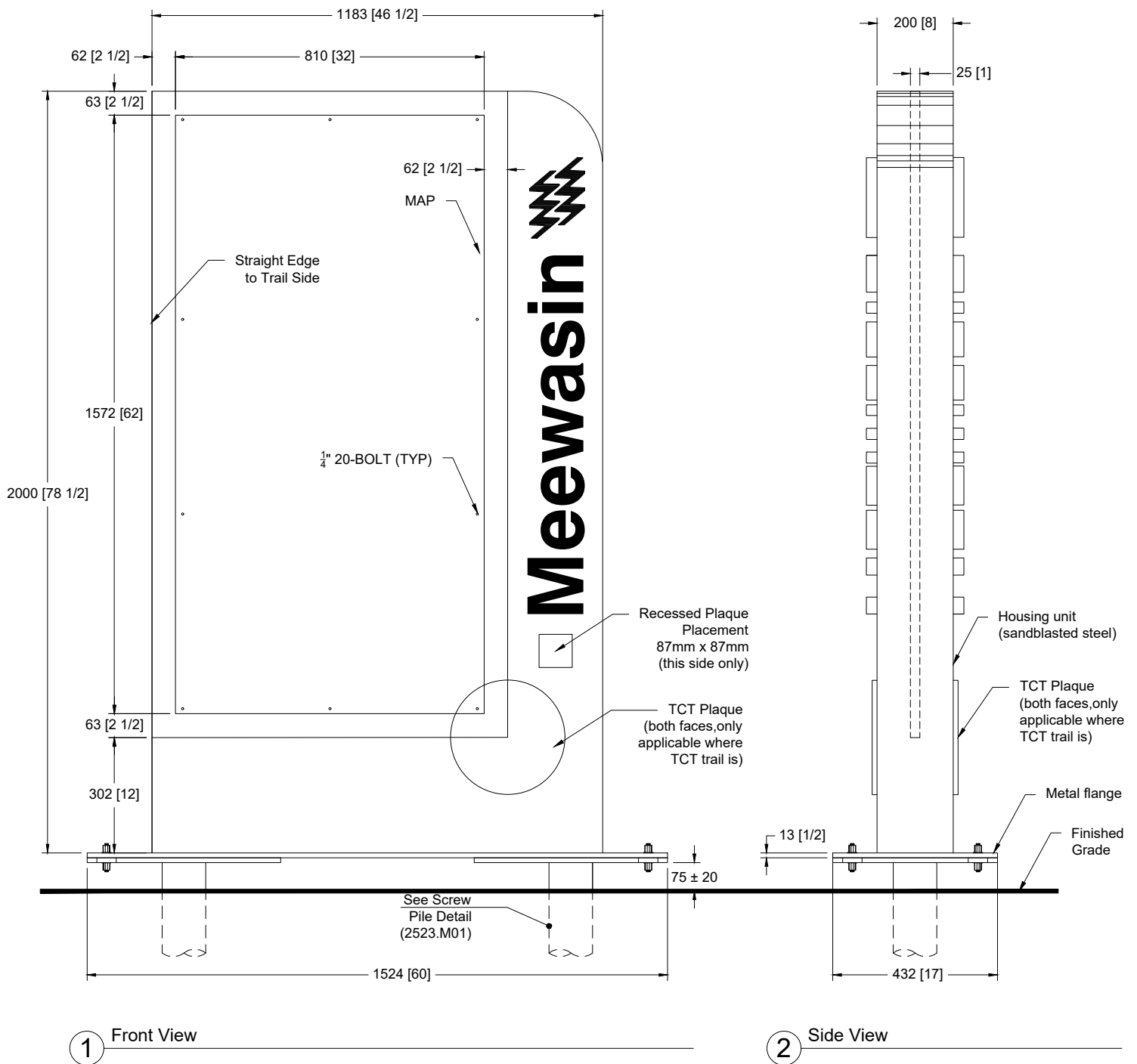
Drawn: AM

Checked: AO

Date: M/D/YY 10/15/20

Scale: NTS

Meewasin

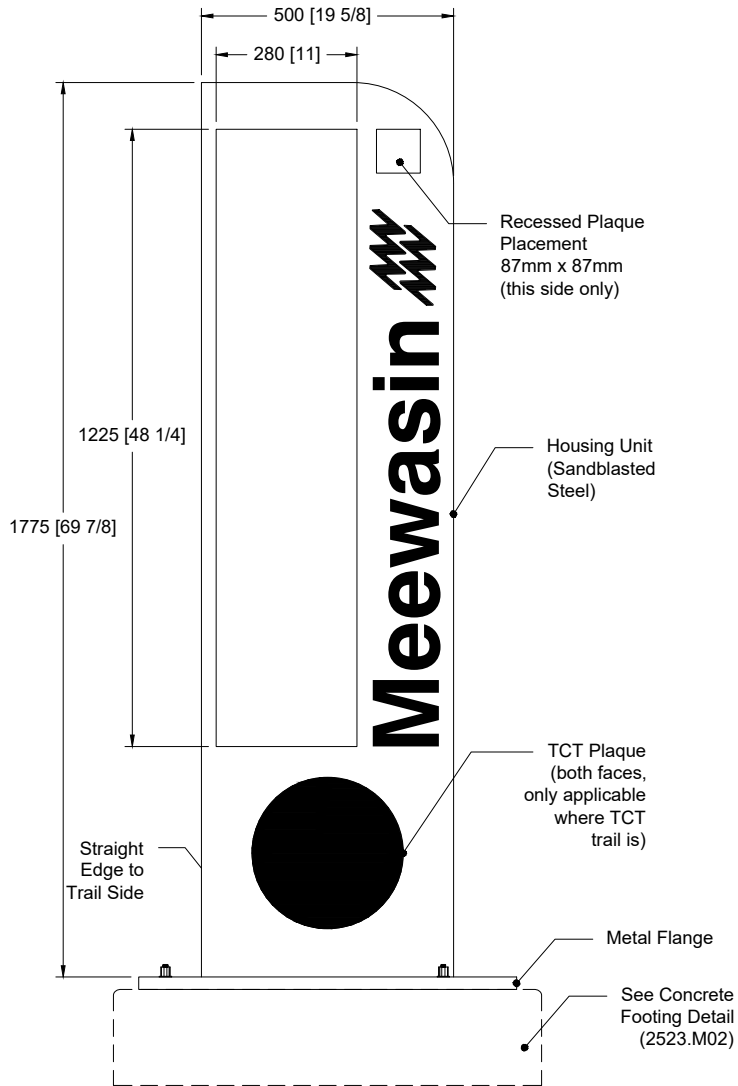


General Notes

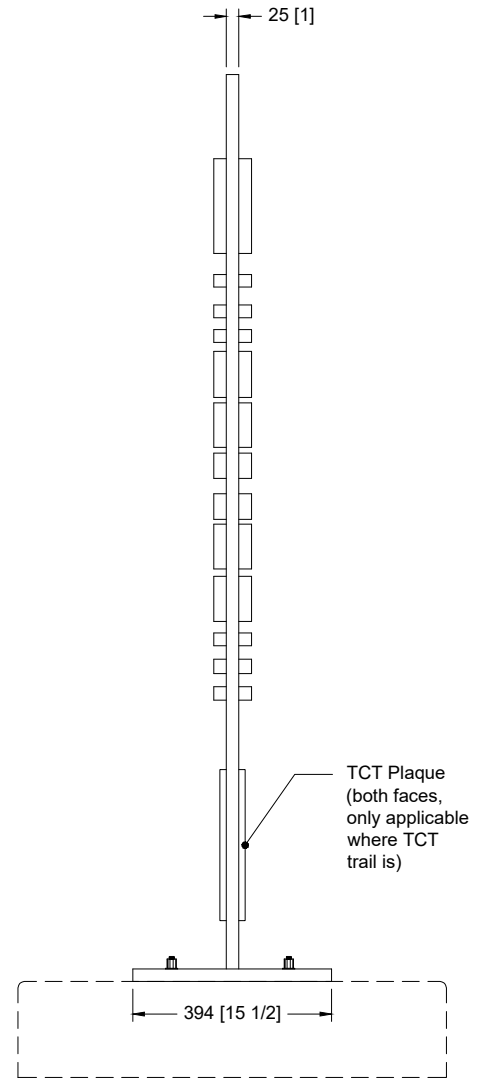
- all dimensions in millimetres [inches in brackets]
- install sign perpendicular to Trail Direction of Travel
- install sign with Straight Edge to Trail Side
- See detail 2870.M21 for Sign Trail Interface

Drawing No:	Drawing Title:			
2870.M01	Trailhead Sign Base – Primary			
Drawn:	CG	Checked:	A0	Date: M/D/YY 05/12/2021
		Scale:		NTS

Meewasin 



1 Front View



2 Side View

General Notes

- all dimensions in millimetres [inches in brackets]
- install sign perpendicular to trail direction of travel
- install sign with straight edge to trail side
- See detail 2870.M21 for Sign Trail Interface

Drawing No:

2870.M02

Drawing Title:

Trailhead Sign Base – Secondary

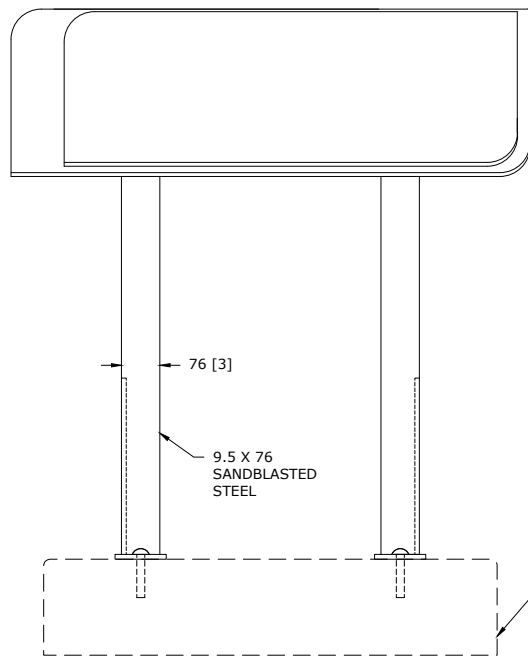
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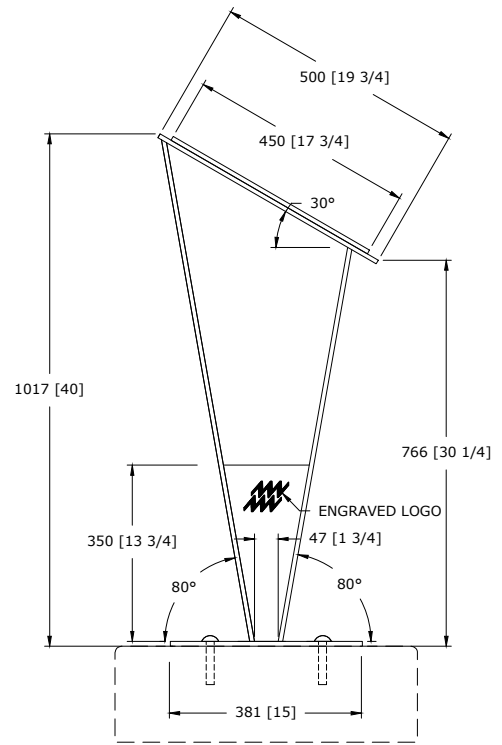
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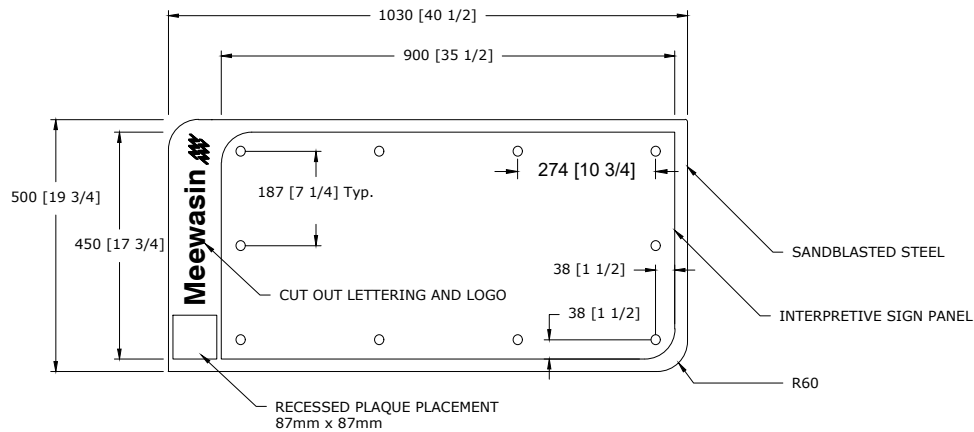
Meewasin



1 Front View



2 Side View



3 Top View

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M03

Drawing Title:

Interpretive Sign Base: Rectangle

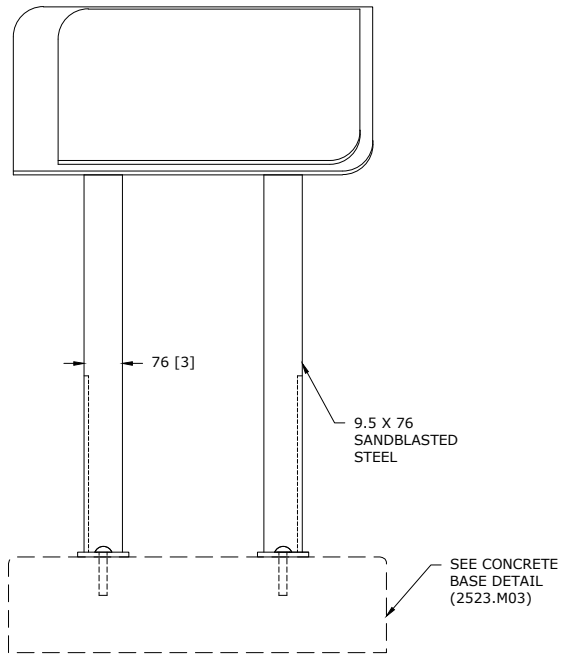
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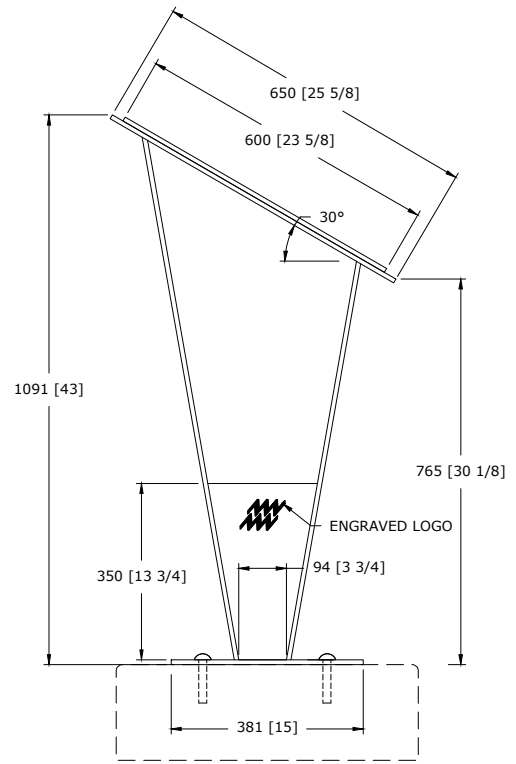
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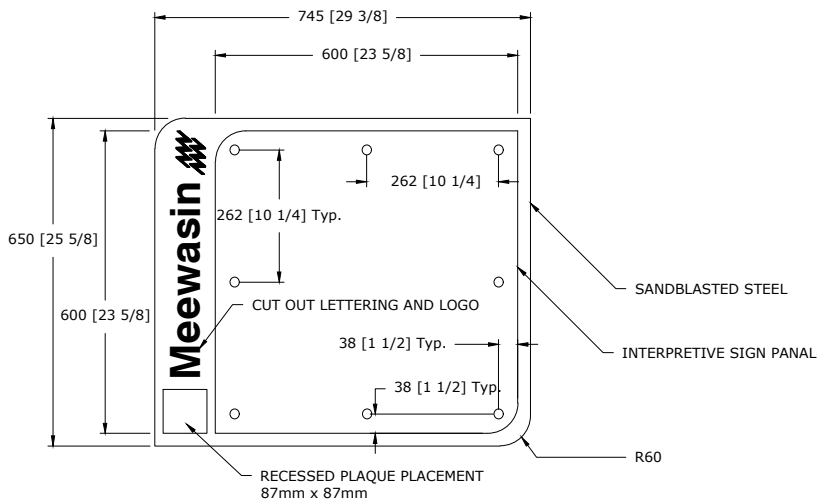
Meewasin



2 Front View



1 Side View



3 Top View

General Notes
-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M04

Drawing Title:

Interpretive Sign Base: Square

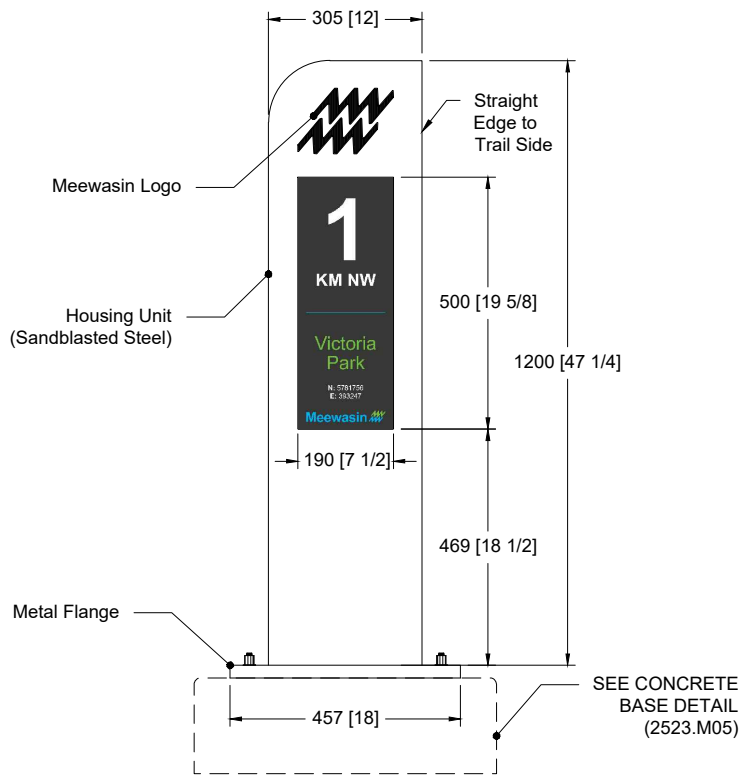
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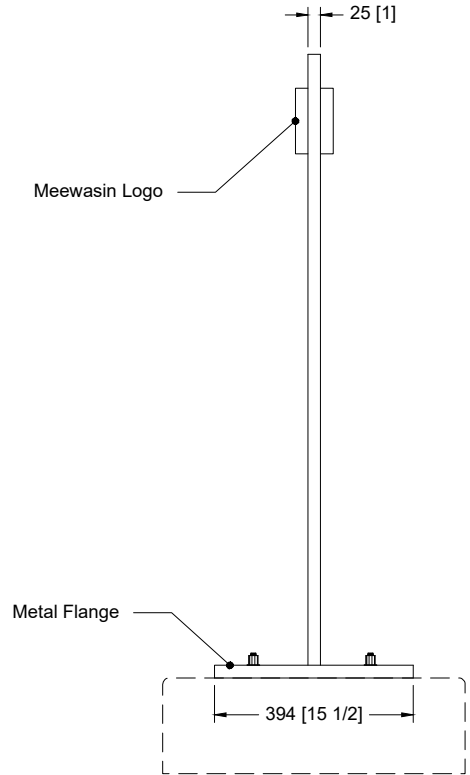
Date: M/D/YY 04/07/20

Scale: NTS

Meewasin



1 Front View



2 Side View

General Notes

- all dimensions in millimetres [inches in brackets]
- install sign perpendicular to trail direction of travel
- install sign with straight edge to trail side
- See detail 2870.M21 for Sign Trail Interface

Drawing No:

2870.M05

Drawing Title:

Kilometer Marker

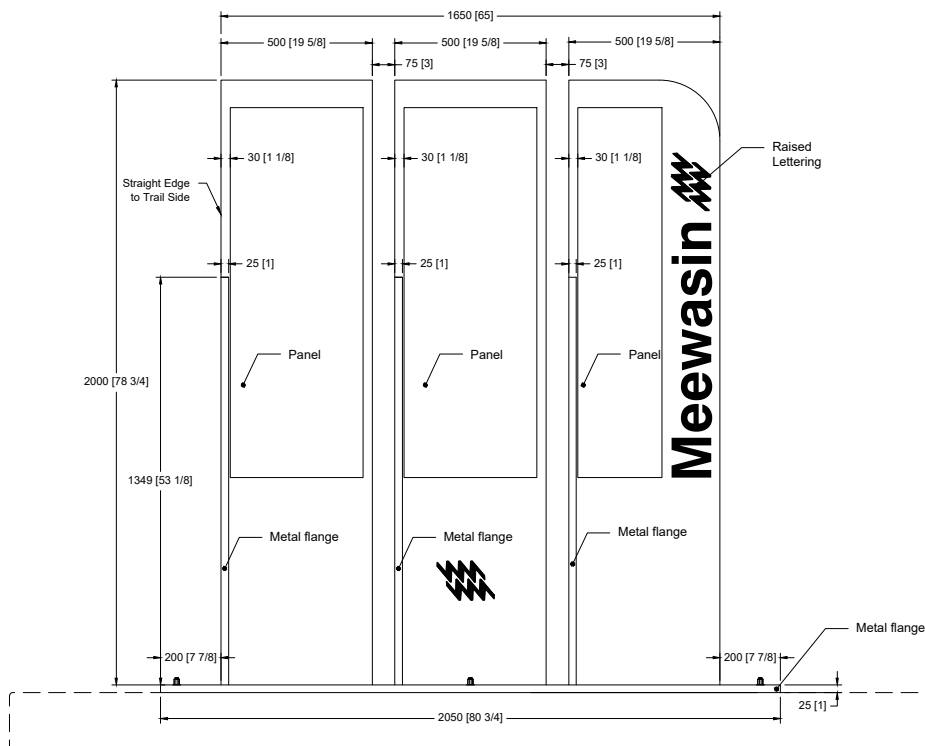
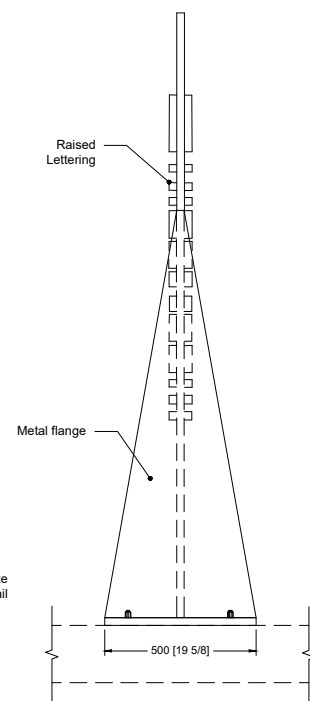
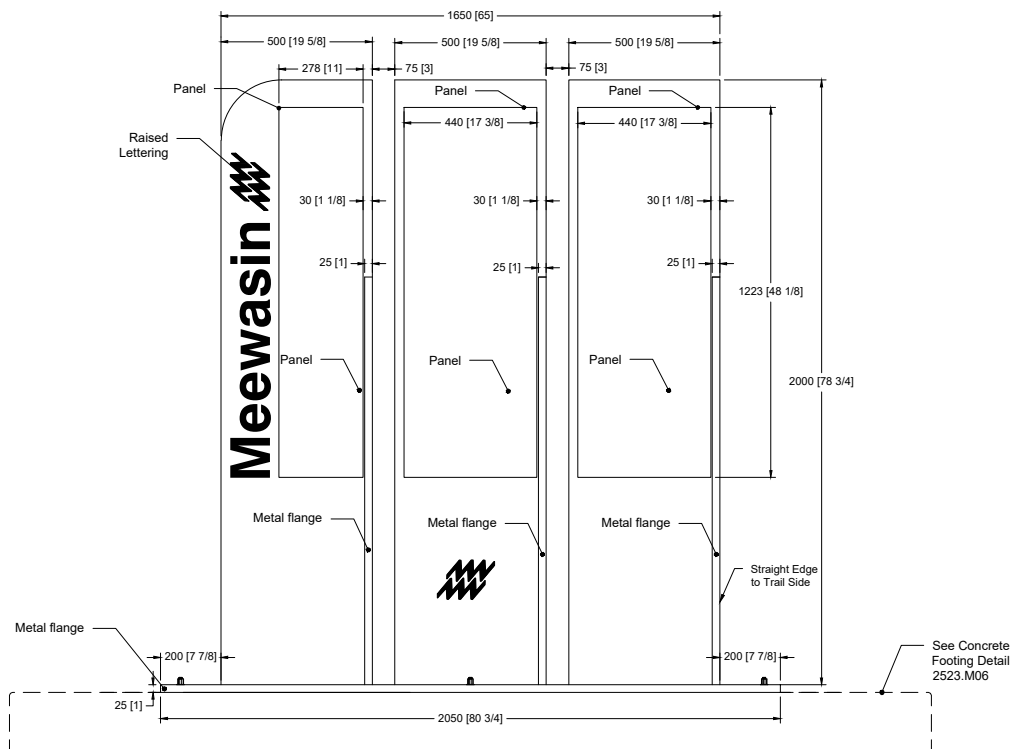
Drawn: AM

Checked: AO

Date: M/D/YY 06/04/20

Scale: NTS

Meewasin



General Notes

- all dimensions in millimetres
[inches in brackets]
- install sign perpendicular to direction of travel
- install sign with straight edge to trail side

Drawing No:

2870.M06

Drawing Title:

3 Panel Donor Recognition Sign

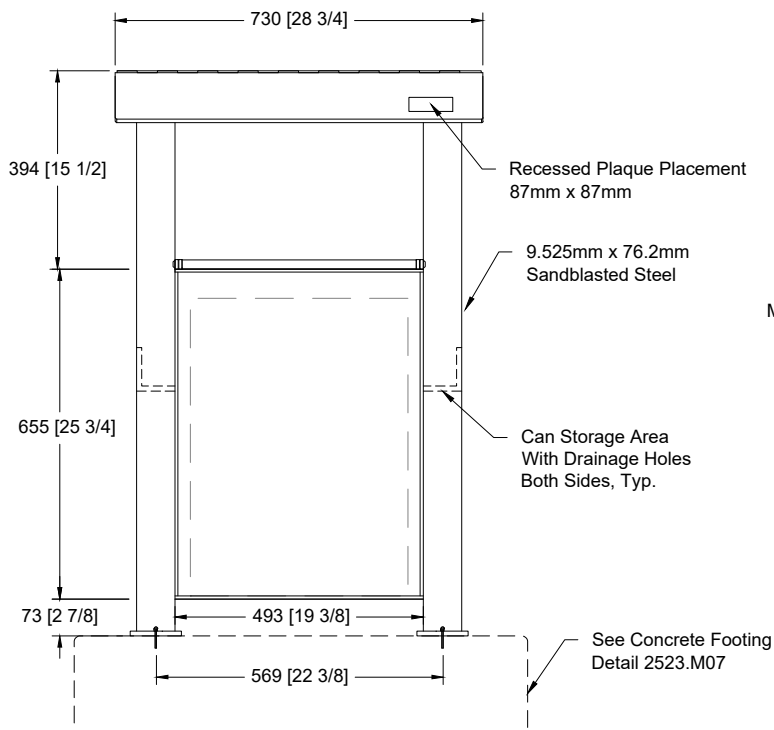
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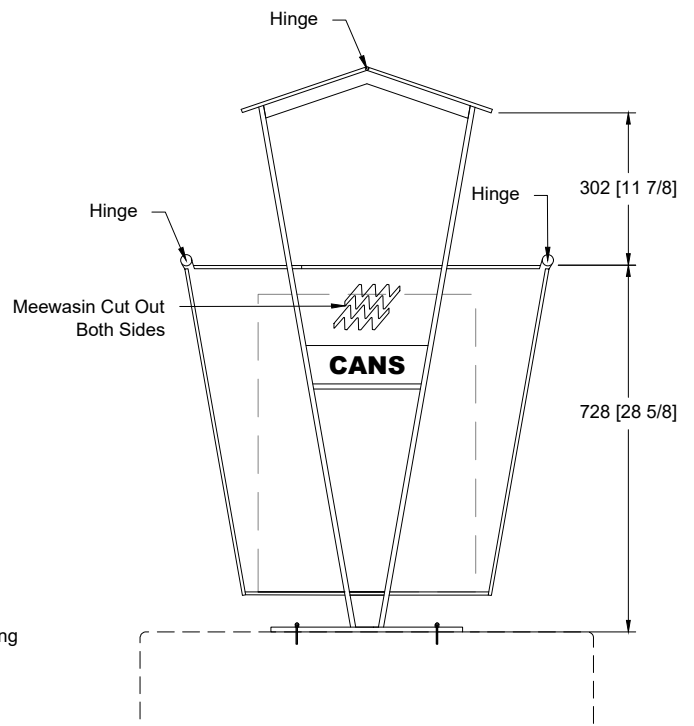
Date: M/D/YY 01/04/2022

Scale: NTS

Meewasin



1 Front View



2 Side View

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M07

Drawing Title:

Meewasin Urban Trash Unit

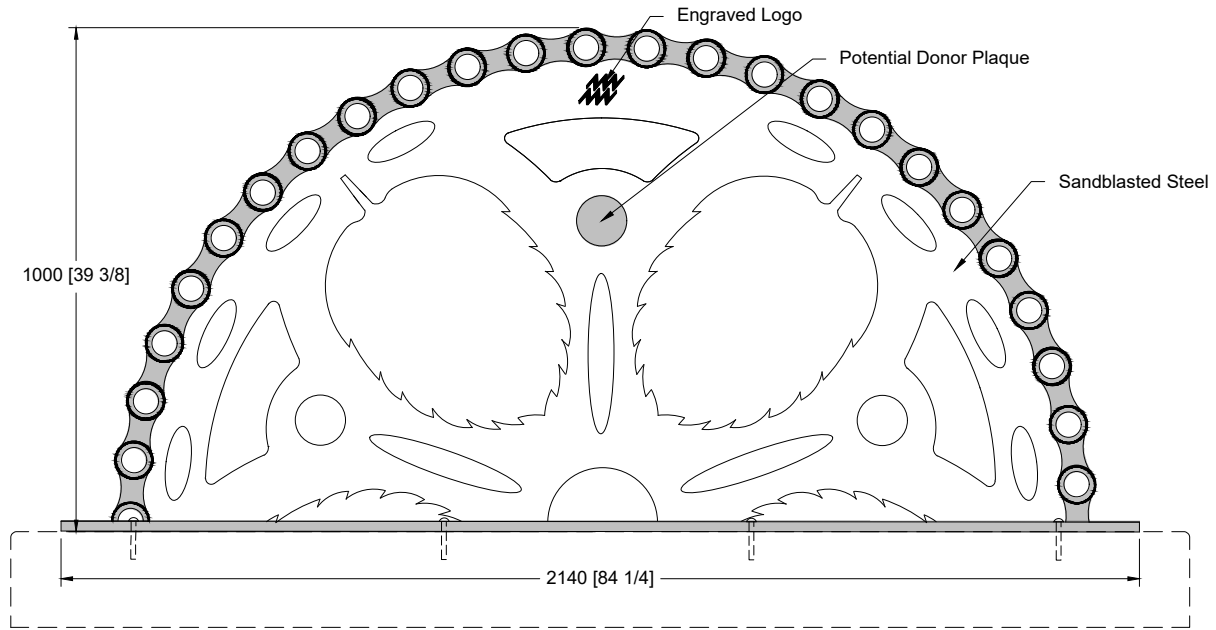
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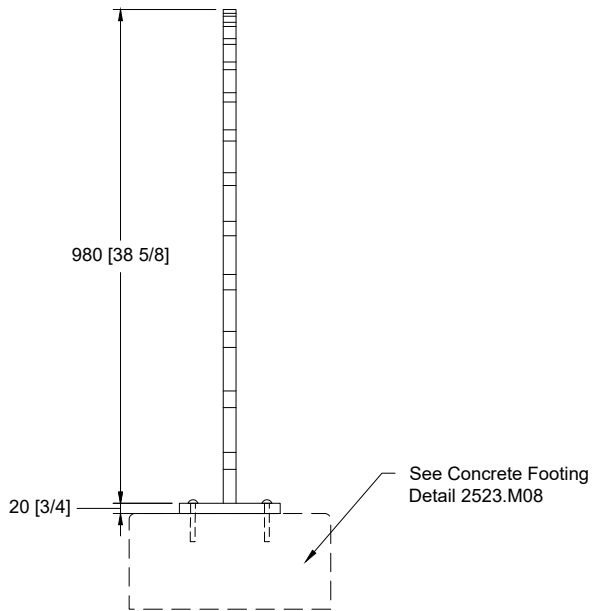
Date: M/D/YY 18/08/23

Scale: NTS

Meewasin



1 Front View



2 Side View

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M08

Drawing Title:

Bike Rack – Gear

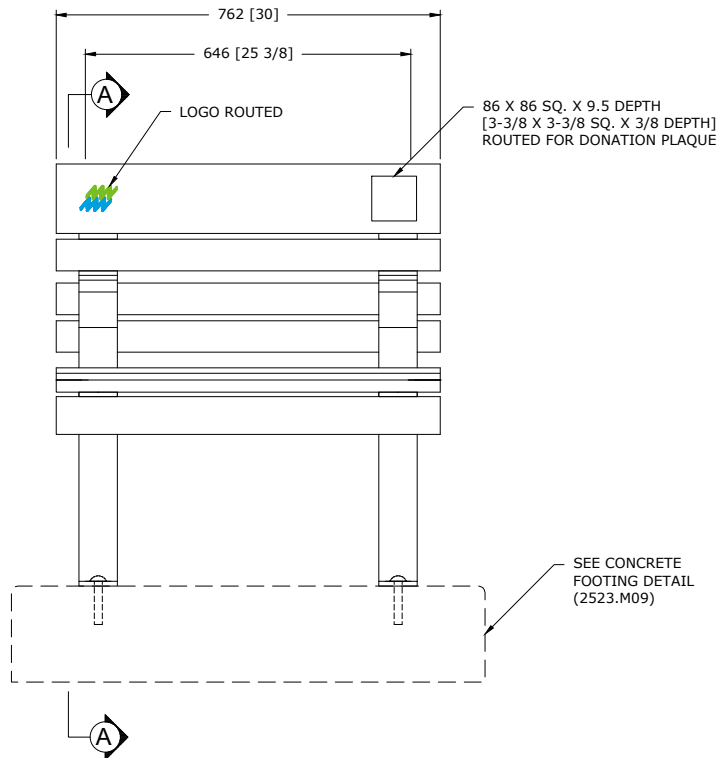
Drawn: JS

Checked: AO

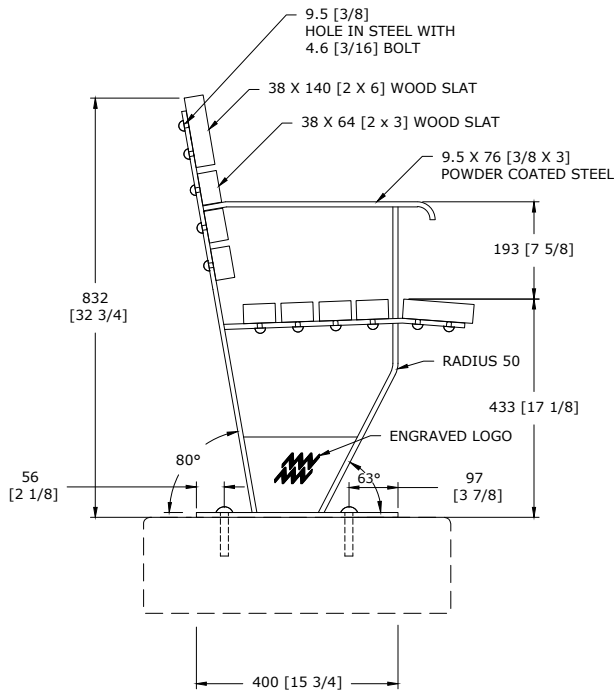
Date: M/D/YY 11/24/22

Scale: NTS

Meewasin



1 Front View



2 Section A-A

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M09

Drawing Title:

Chair — Urban

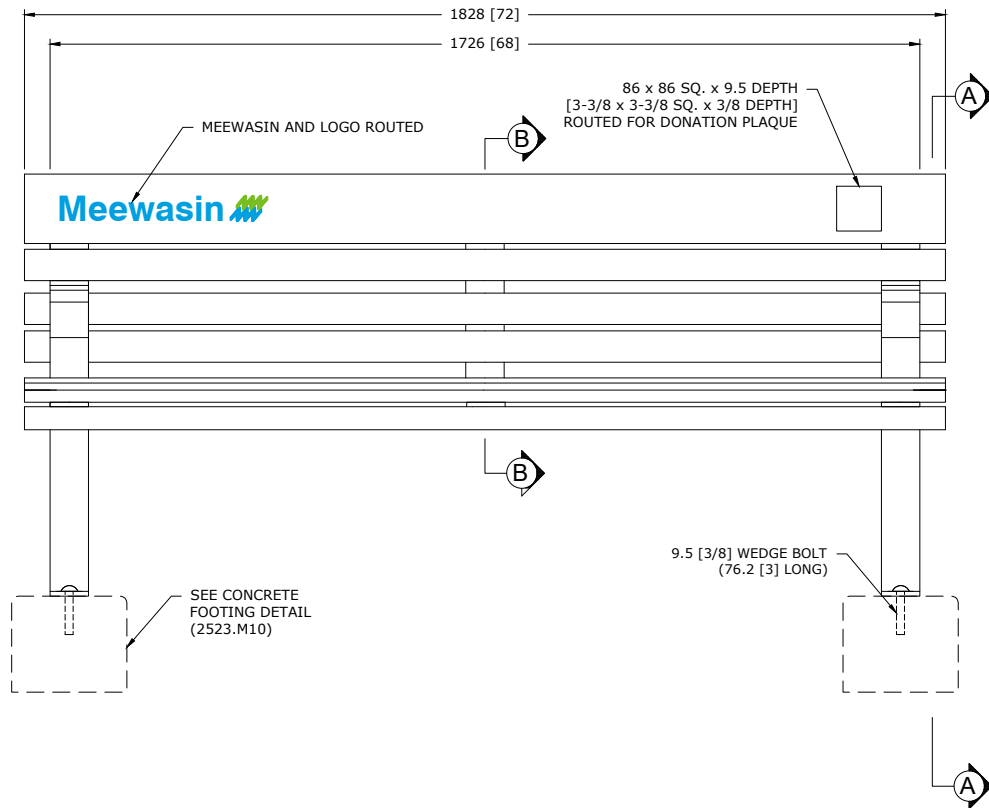
Drawn: AM/CG

Checked: AO

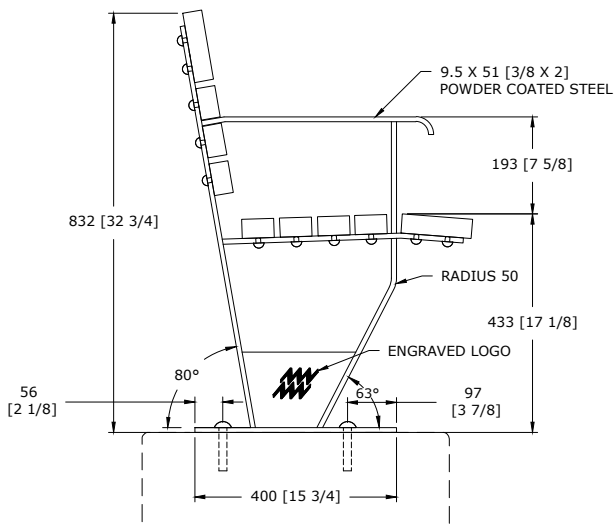
Date: M/D/YY 04/26/21

Scale: NTS

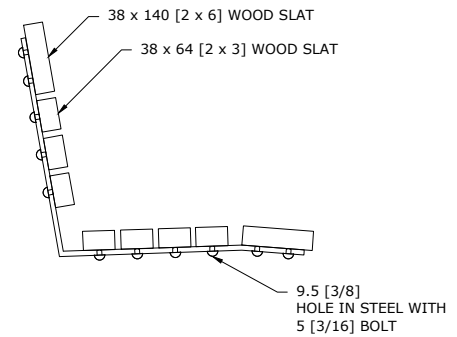
Meewasin



1 Front View



2 Section A-A



2 Section B-B

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M10

Drawing Title:

Bench – Urban

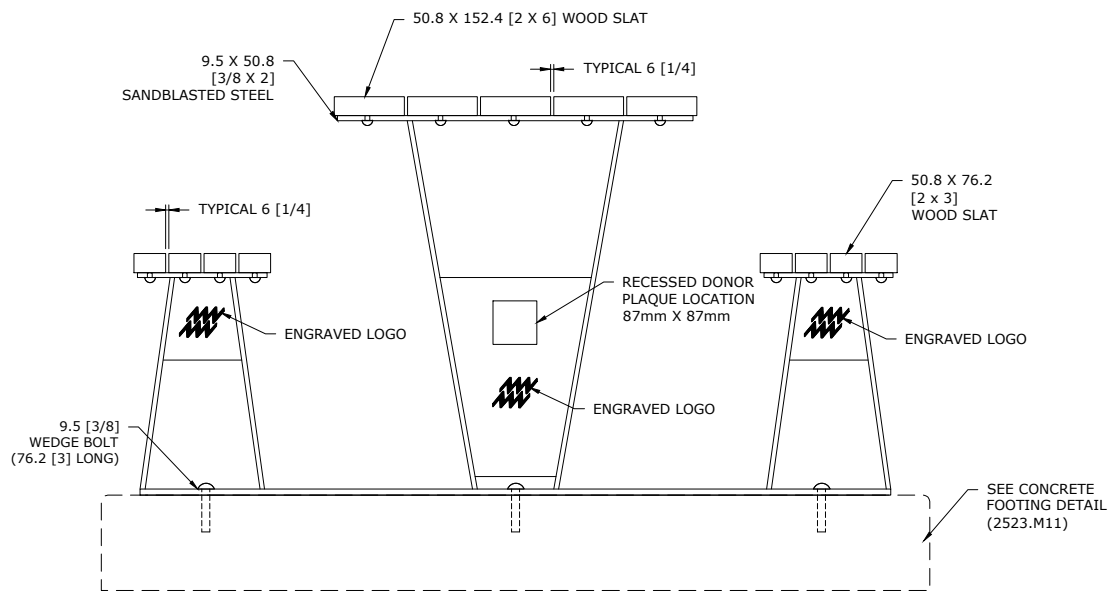
Drawn: AM/CG

Checked: AO

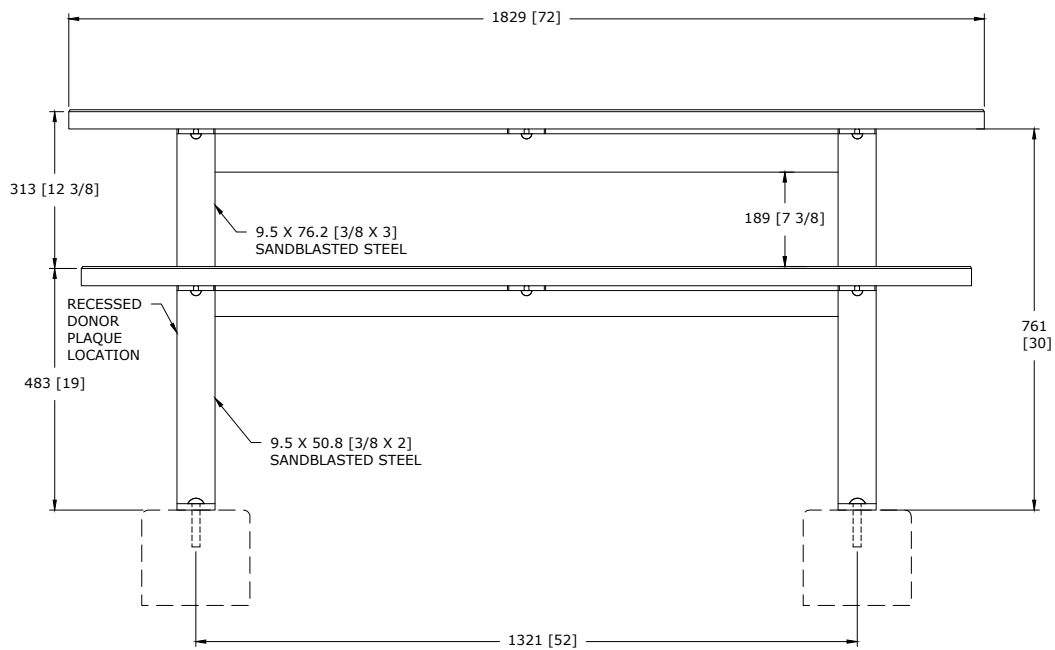
Date: 04/26/21

Scale: NTS

Meewasin



1 Front View



2 Side View

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M11

Drawing Title:

Picnic Table: Non-Accessible – Urban

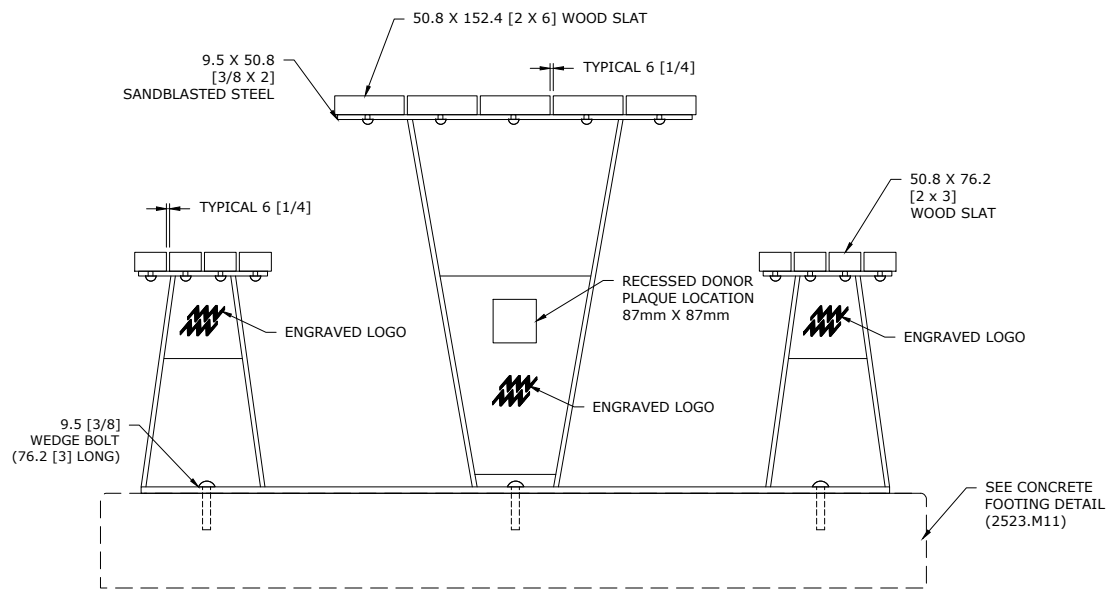
Drawn: AM

Checked: AO

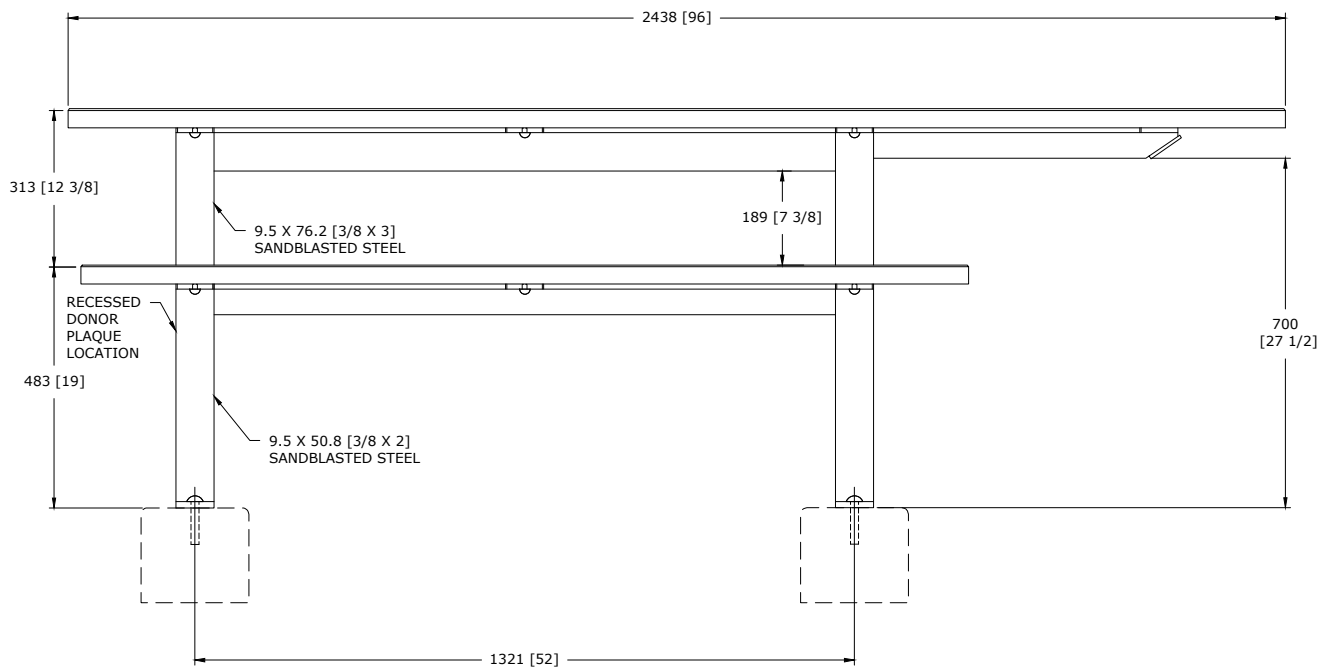
Date: M/D/YY 04/07/20

Scale: NTS

Meewasin



1 Front View



2 Side View

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M12

Drawing Title:

Picnic Table: Accessible – Urban

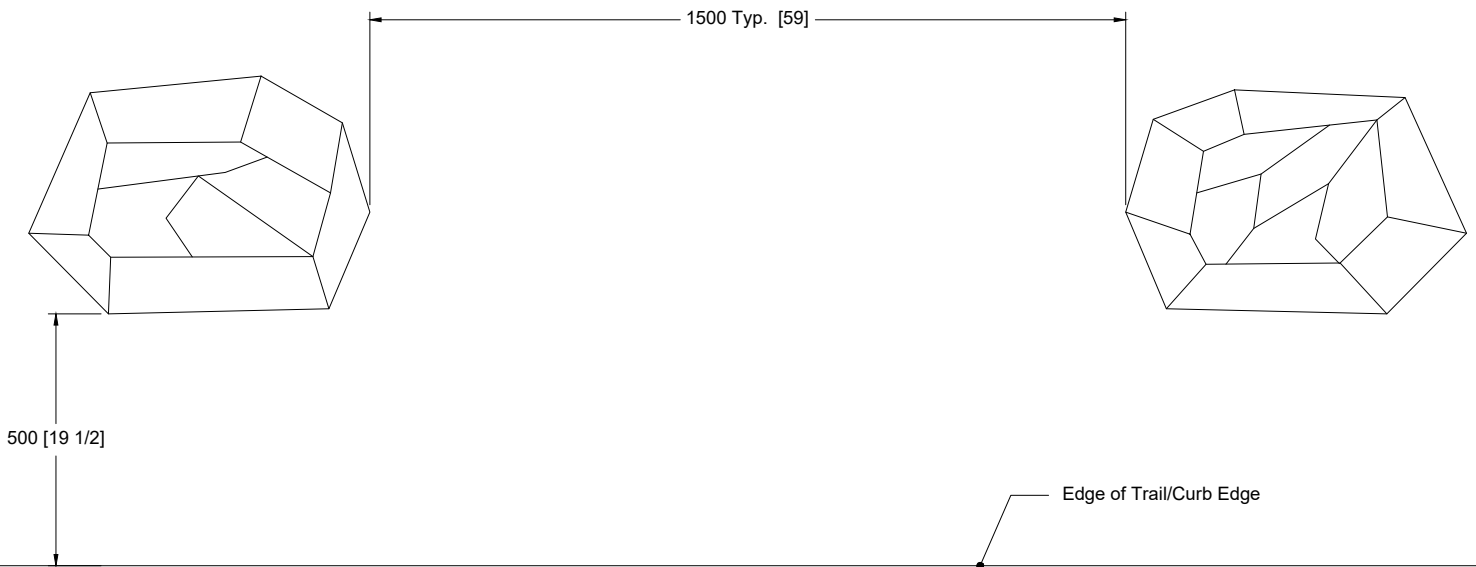
Drawn: AM

Checked: AO

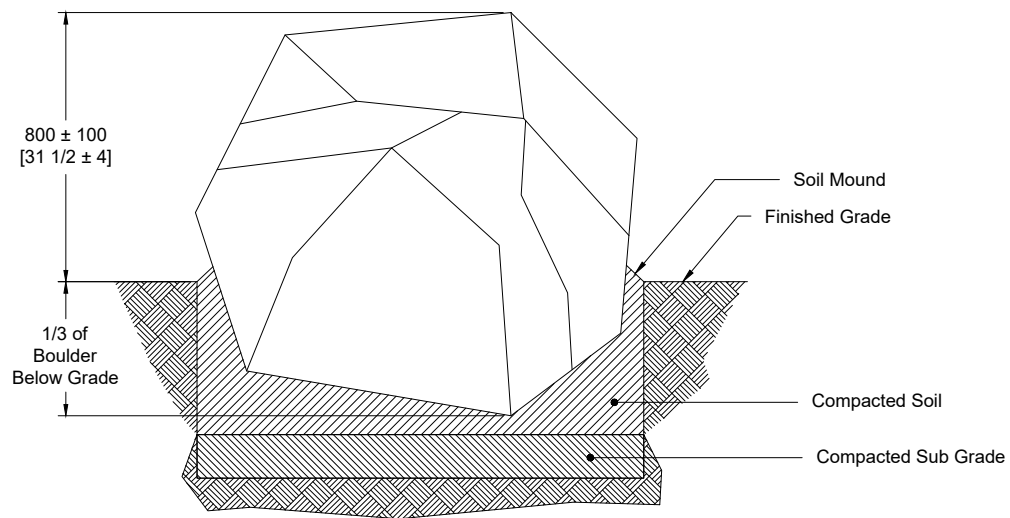
Date: M/D/YY 04/07/20

Scale: NTS

Meewasin



1 Plan View



2 Side View

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M13

Drawing Title:

Boulder

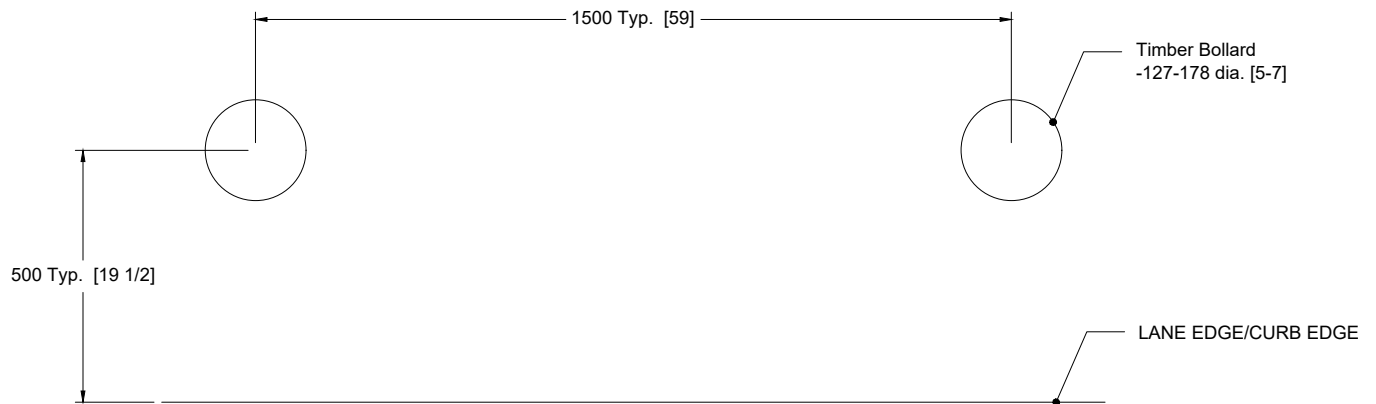
Drawn: AM

Checked: AO

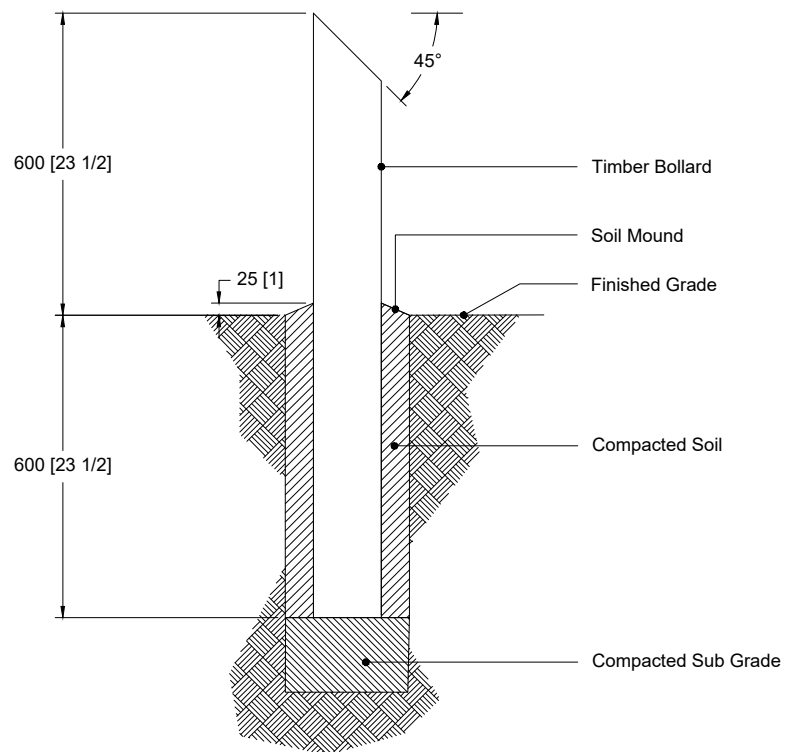
Date: M/D/YY 04/22/21

Scale: NTS

Meewasin



1 Plan View

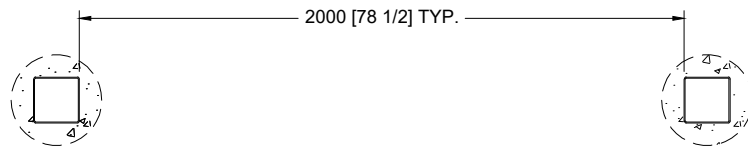


2 Side View

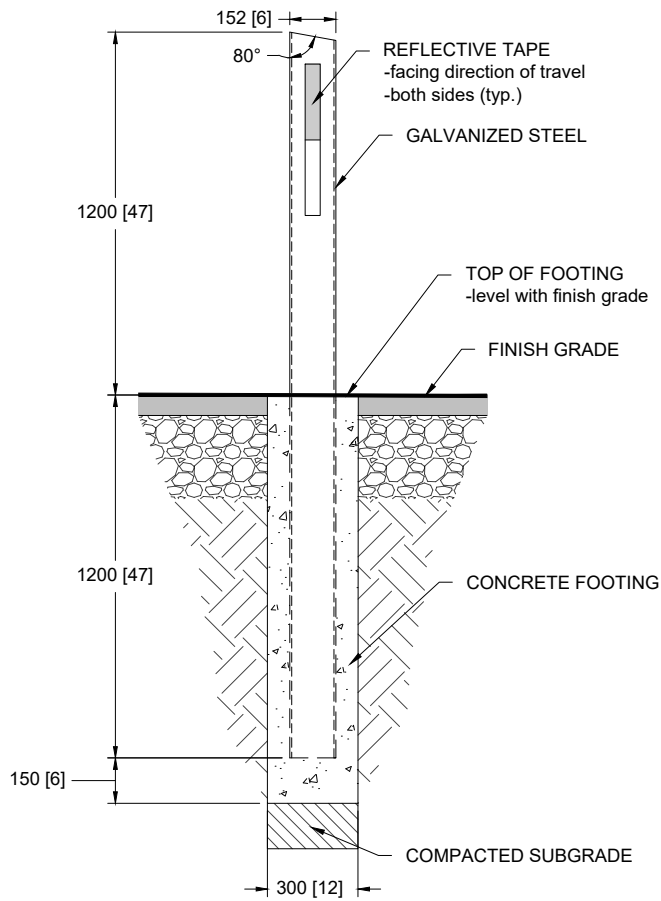
General Notes
-all dimensions in millimetres [inches in brackets]

Drawing No:	Drawing Title:				
2870.M14	Bollard — Wooden				
Drawn:	AM	Checked:	AO	Date: M/D/YY	04/07/20
				Scale:	NTS

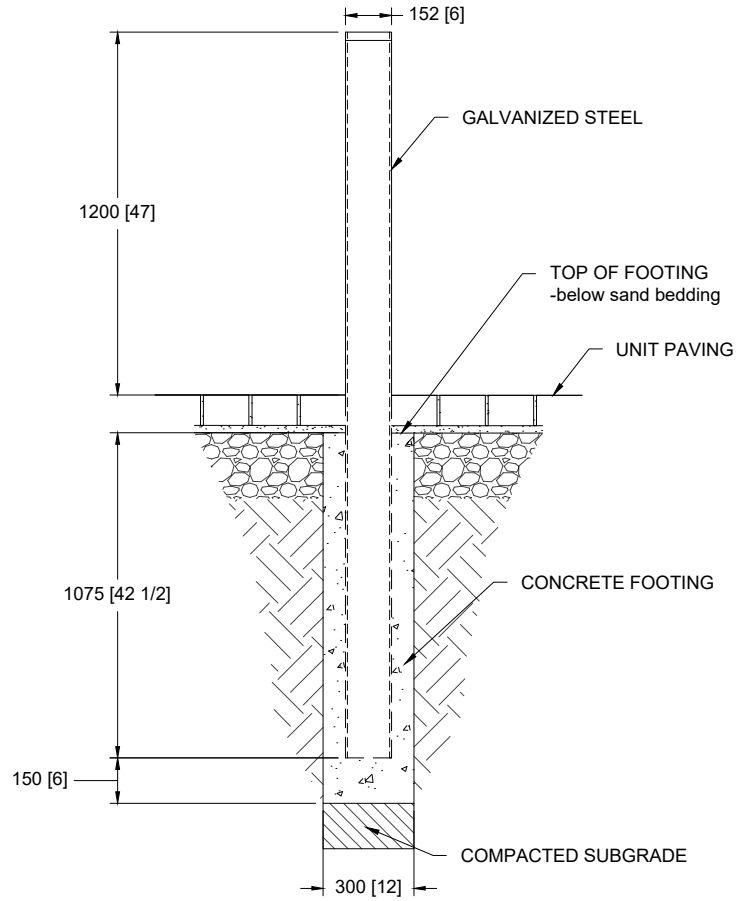
Meewasin



1 Plan View



2 Front View - In Asphalt

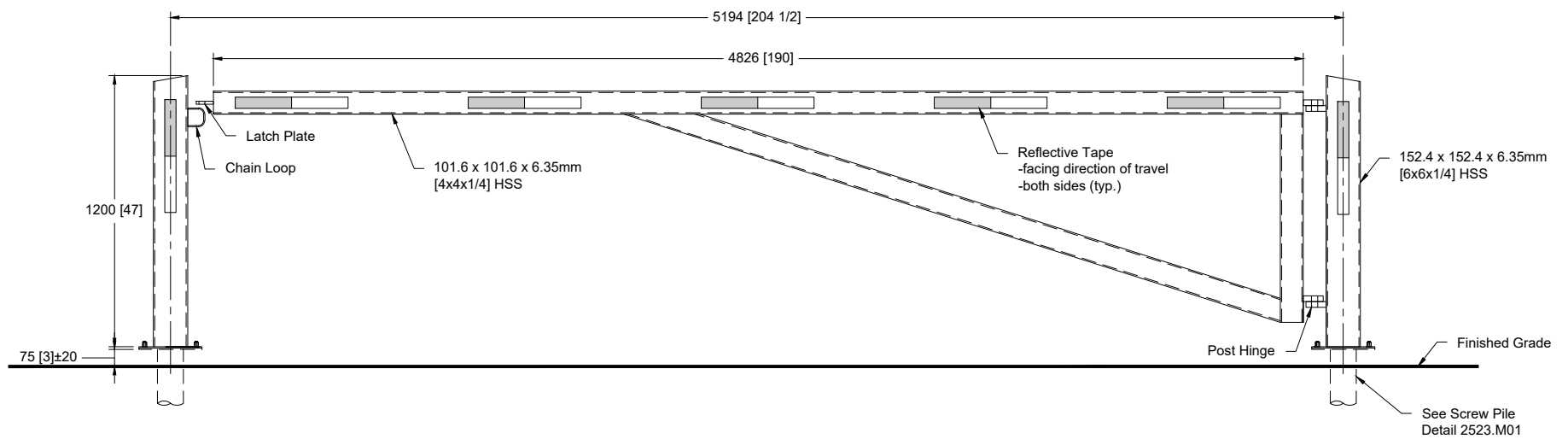


3 Side View - In Unit Pavers

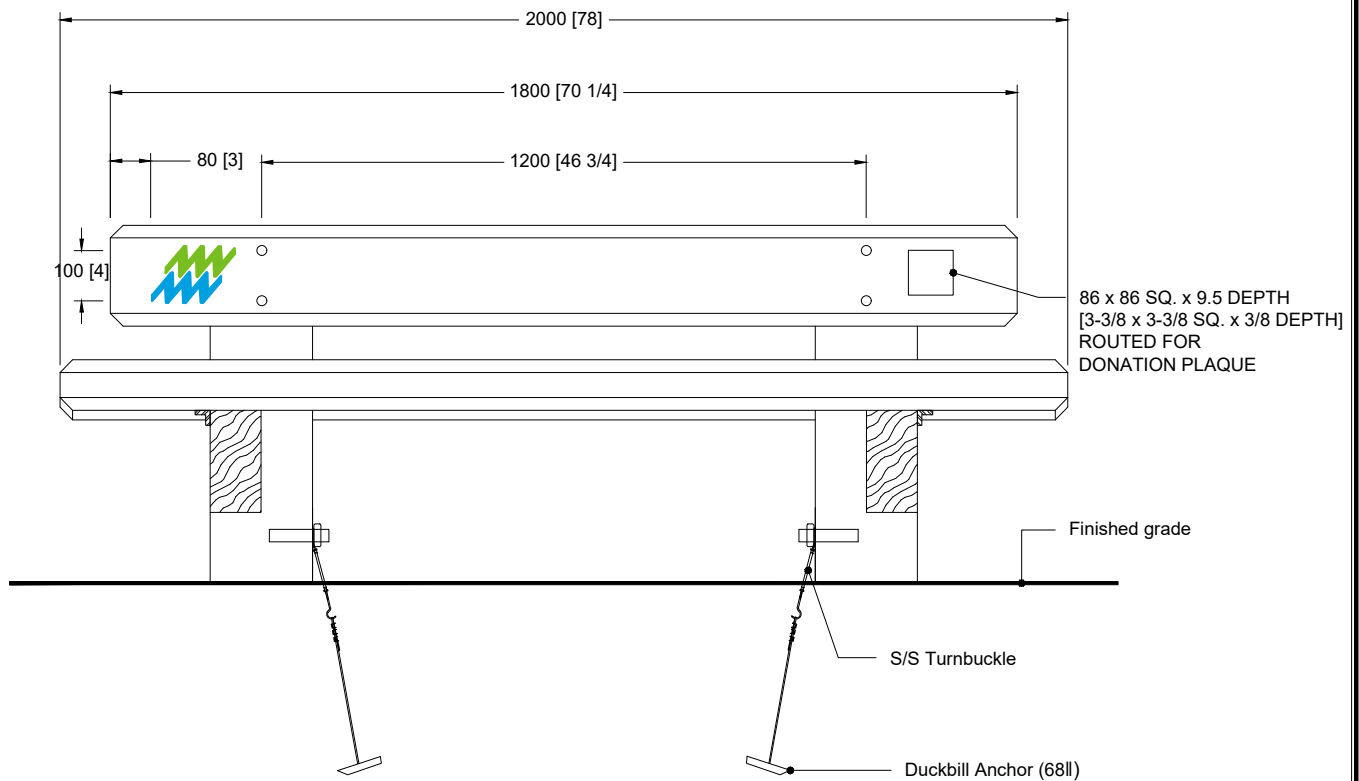
General Notes
-all dimensions in millimetres [inches in brackets]

Drawing No:	Drawing Title:			
2870.M15	Bollard – Steel			
Drawn:	JS	Checked:	AO	Date: M/D/YY 11/14/22
				Scale: NTS

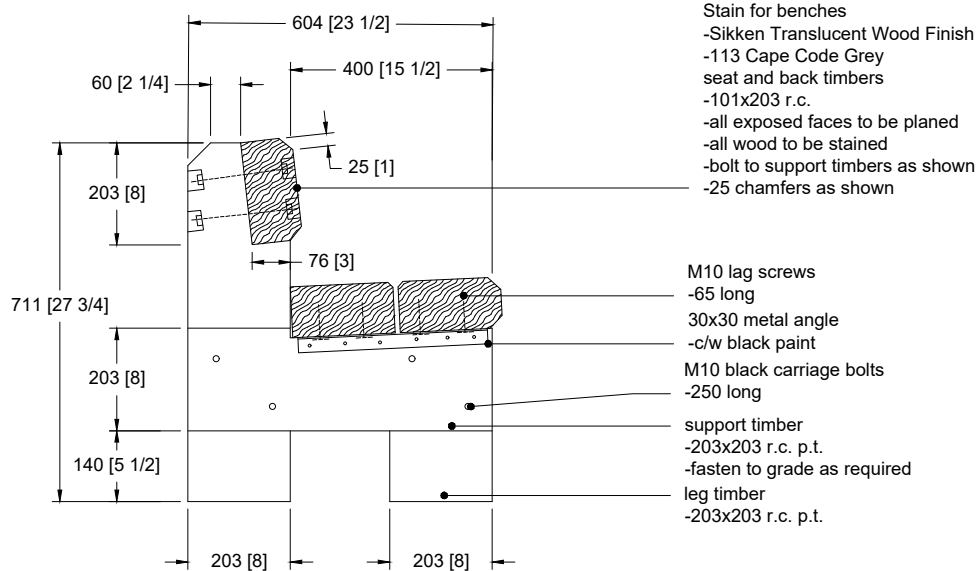
Meewasin



-all dimensions in millimetres [inches in brackets]



1 Front View



2 Side View

General Notes

-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M17

Drawing Title:

Bench – Rustic

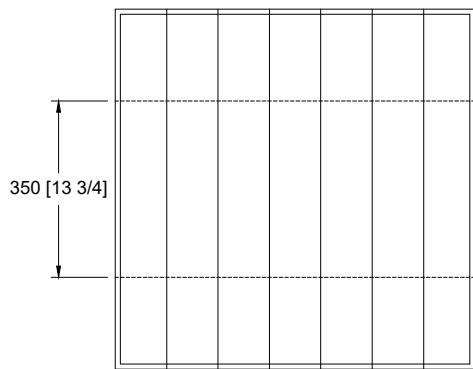
Drawn: AM

Checked: AO

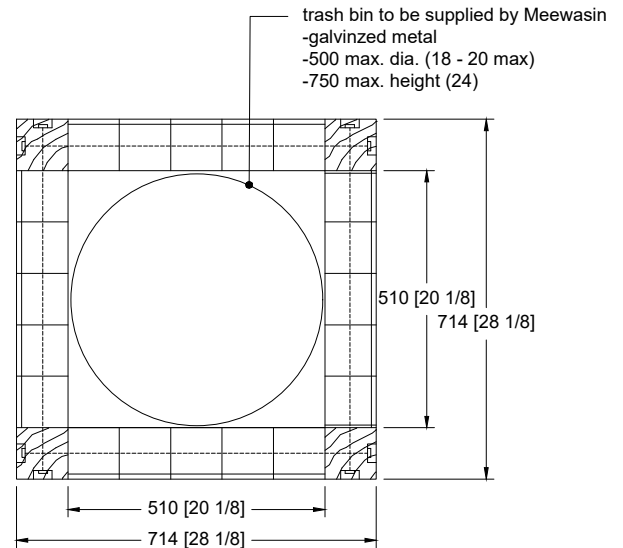
Date: M/D/YY 04/06/20

Scale: NTS

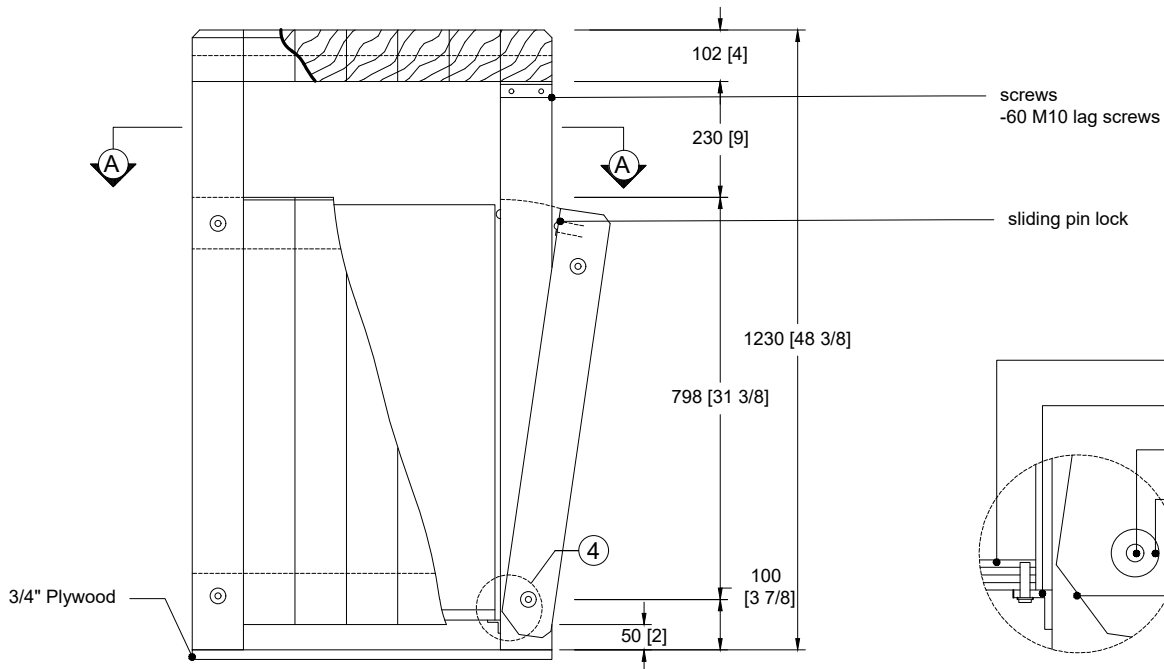
Meewasin



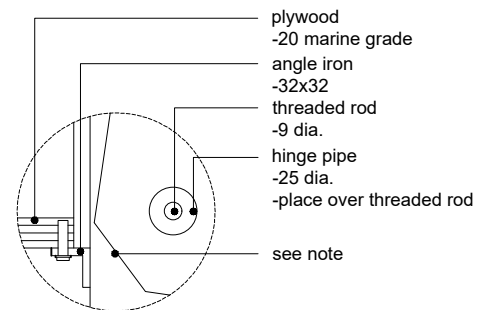
1 Plan



2 Section A-A



3 Elevation/Section



4 Detail

General Notes

- all wood to be 102x102 (actual size)
- all nuts on the threaded rod are to be counter sunk 15mm
- chamfer on gate is to clear angle iron when gate is opened
- all dimesions in millimeters [inches in brackets] unless noted otherwise
- galvanized can inserts to be 16.5" in DIA. (confirm dimensions with CofS IS-Parks department)

Drawing No:

2870.M18

Drawing Title:

Trash Receptacle – Rustic

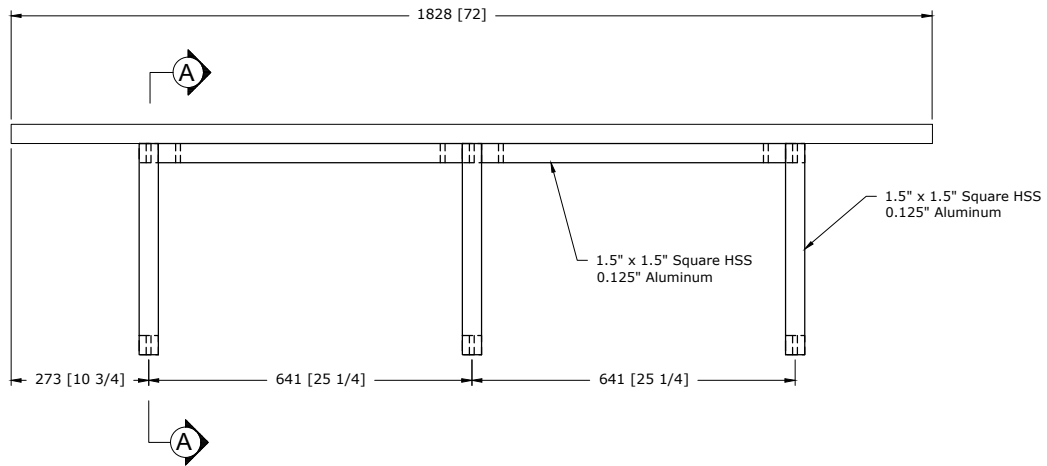
Drawn: AM

Checked: AO

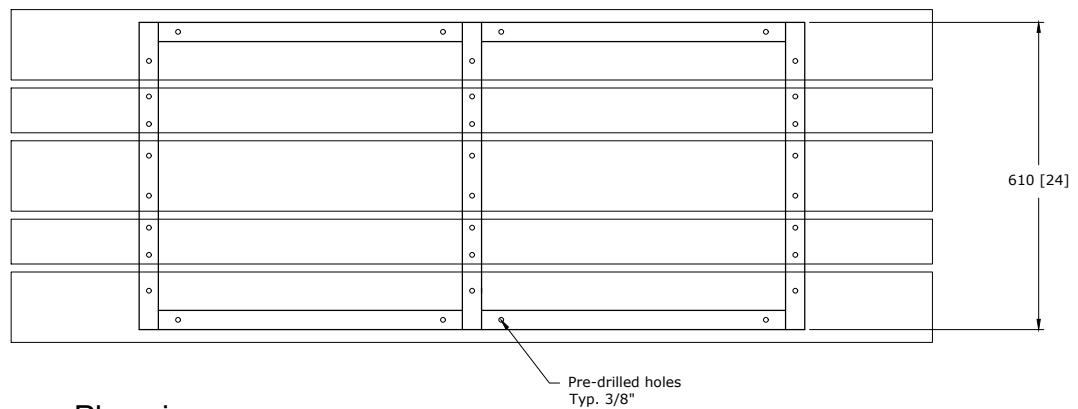
Date: M/D/YY 04/2/20

Scale: NTS

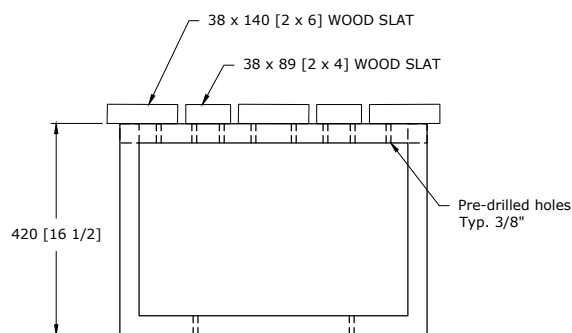
Meewasin




① Front View

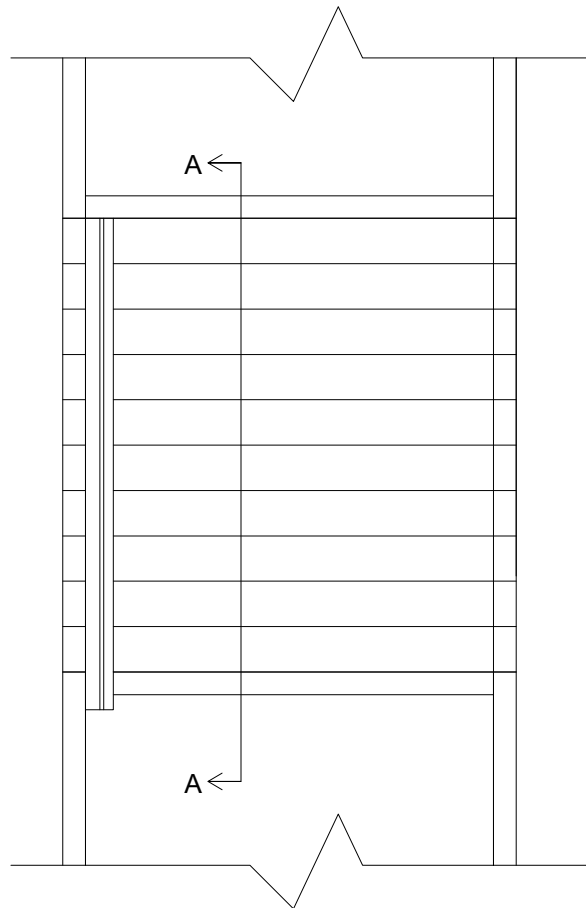


② Plan view

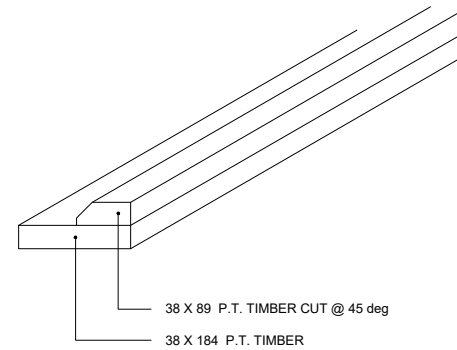


③ Section A-A

Drawing No: 2870.M19	Drawing Title: Bench — Backless Aluminum Frame				
	Drawn: AM	Checked: AO	Date: M/D/YY 04/06/20	Scale: NTS	

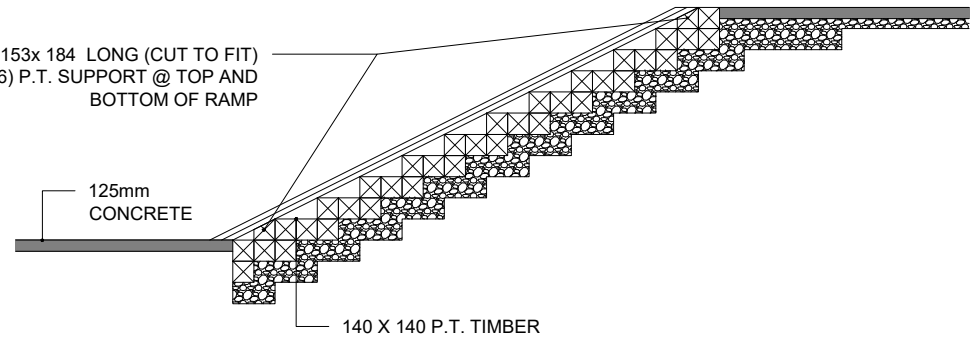


1 Top View



2 3D View

153 x 153x 184 LONG (CUT TO FIT)
(6 X 6) P.T. SUPPORT @ TOP AND
BOTTOM OF RAMP



3 Section A-A

The 38 x 184 can be screwed down to the
toe of each step with 3, 64mm (2 1/2 inch)
deck screws, and the 38 x 89 can be
screwed down to the 38 x 184 with 2
64mm (2 1/2 inch) deck screws every
300mm

General Notes
-all dimensions in millimetres [inches in brackets]

Drawing No:

2870.M20

Drawing Title:

Bike Ramp on Timber Stairs

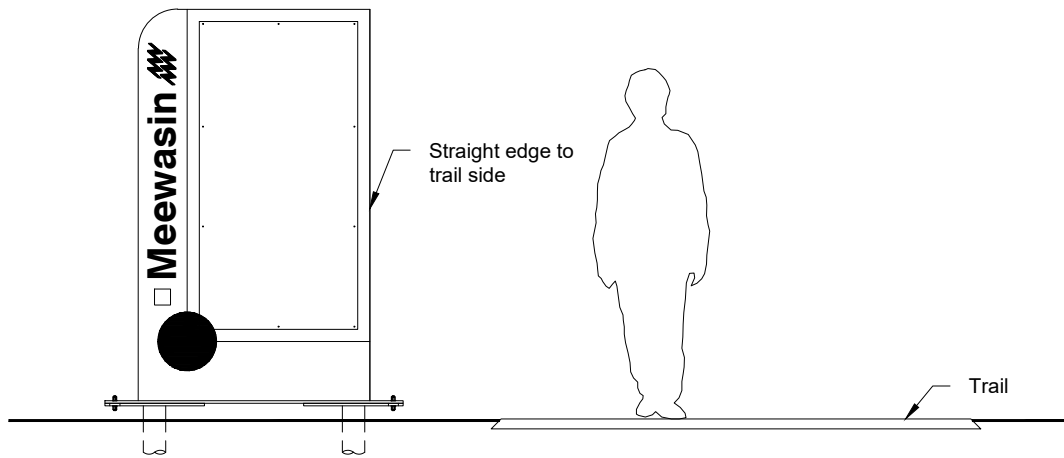
Drawn: AM

Checked: AO

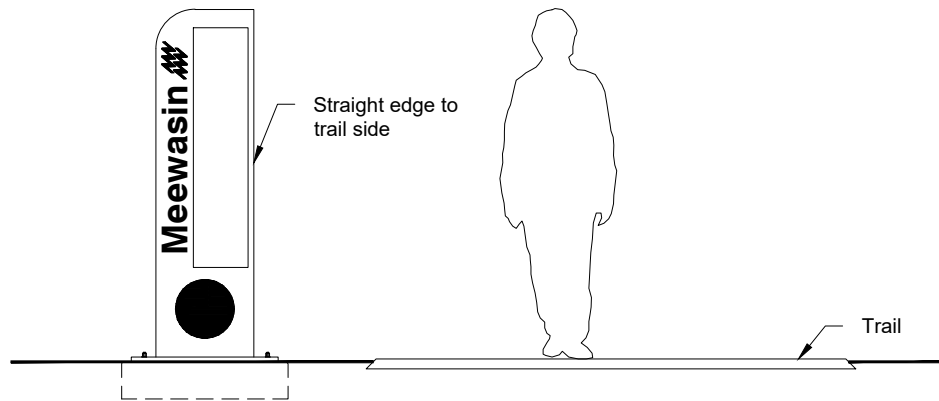
Date: M/D/YY 05/05/21

Scale: NTS

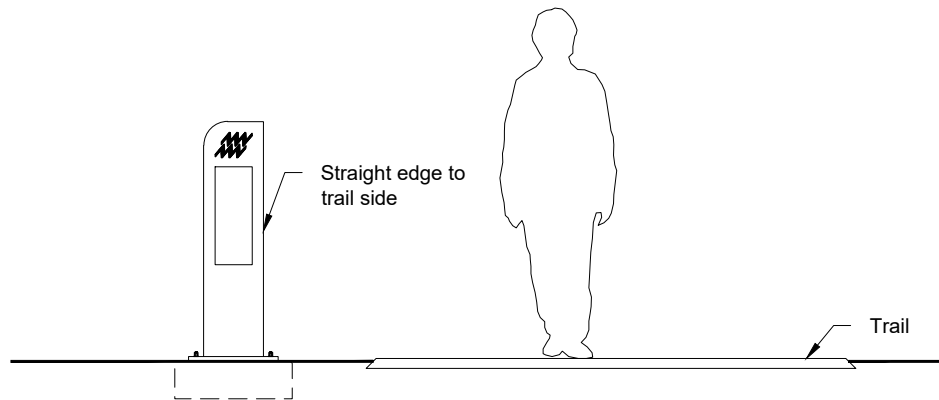
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① Primary Trailhead



② Secondary Trailhead



③ Kilometer Marker

General Notes

- install sign perpendicular to trail direction of travel
- install sign with straight edge to trail side
- confirm locations with Consultant on-site prior to installation

Drawing No:

2870.M21

Drawing Title:

Typical Sign Trail Interface

Drawn: JS

Checked: AO

Date: M/D/YY 02/22/23

Scale: NTS

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