

# Mega Anchor Design Set

Date: September 28, 2023

PROJECT: GlamXperience

Project Number: GX-2023



Front bearer

300 mm

190x45

Middle bearer

Middle bearer

Rear bearer

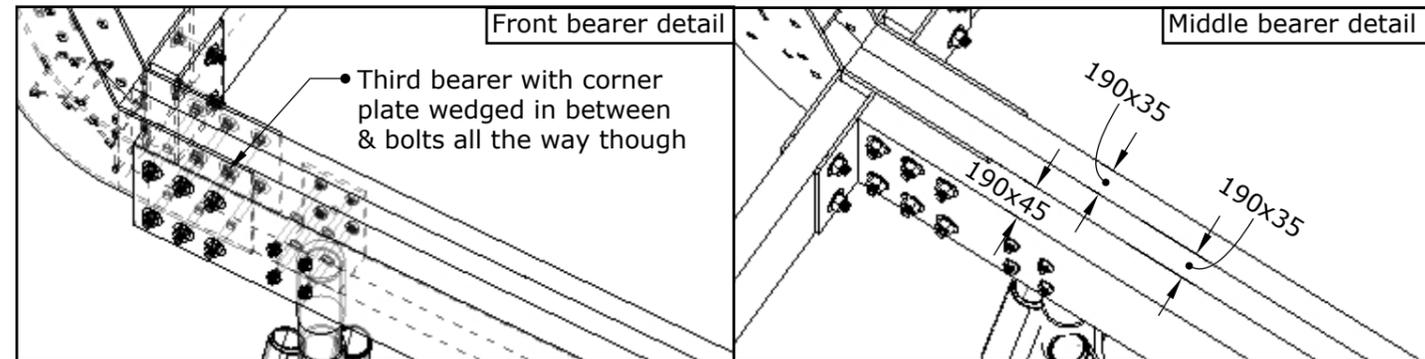
2500 mm

2500 mm

2500 mm

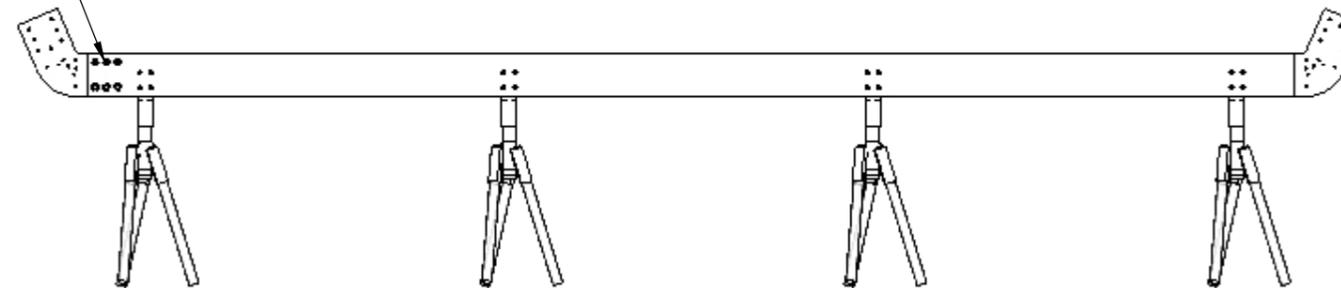
2500 mm

7620 mm

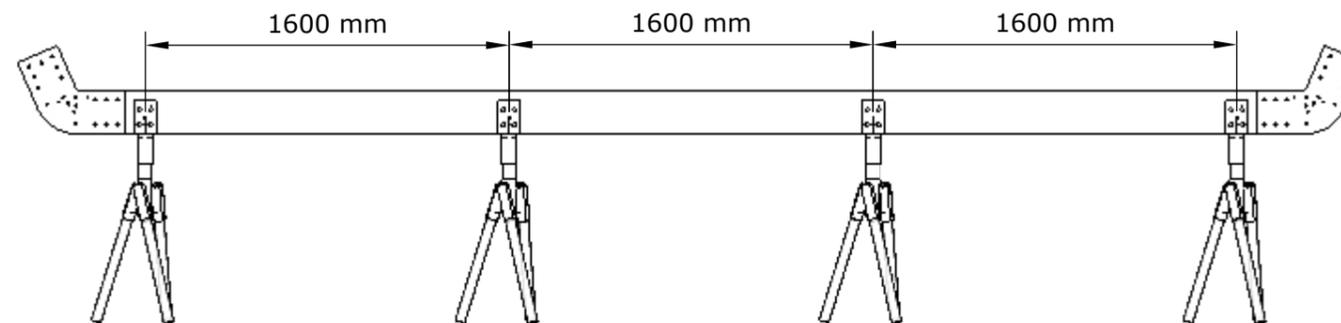


• 2x 190x35  
• 1x 190x45

Front view Bearers



Rear view bearers



### MEGA ANCHOR STUMPS GENERAL:

THE MEGA ANCHOR SYSTEM IS TO BE DESIGNED AND SELECTED IN ACORDANCE TO THE MANUFACTURES SPECIFICATIONS AND RELEVANT AUSTRALIAN STANDARDS

. AS 2159 - 2009 PILING - DESIGN AND INSTALLATION

. AS 4312-2008 ATMOSPHERIC CORROSIVITY ZONES IN AUSTRALIA

. AS 4055 - WIND LOADINGS FOR HOUSING

. AS 4100 - STEEL STRUCTURES

1. MEGA ANCHOR PILE CAP: THE MEGA ANCHOR PILE CAPS ARE TO BE SELECTED IN ACORDANCE TO THE MANUFACTURES SPECIFICATIONS AND RELEVANT AUSTRALIAN STANDARDS

2. MEGA ANCHOR PILES: THE MEGA ANCHOR PILES ARE TO BE SELECTED IN ACORDANCE TO THE MANUFACTURES SPECIFICATION

PILES MUST BE HOT DIP GALVANISED UNLESS SPECIFIED BY OTHERS.

THICKNESS OF PILES ARE TO BE SELECTED IN ACORDANCE TO THE MANUFACTURES SPECIFICATION

3. MEGA ANCHOR RISERS: THE MEGA ANCHOR RISERS ARE TO BE SELECTED IN ACORDANCE TO THE MANUFACTURES SPECIFICATION

RISERS MUST BE HOT DIP GALVANISED UNLESS SPECIFIED BY OTHERS.

THICKNESS OF RISERS ARE TO BE SELECTED IN ACORDANCE TO THE MANUFACTURES SPECIFICATION

4. MEGA ANCHOR BRACING: MEGA ANCHOR BRACING IS TO BE DESIGNED AND INSTALLED IN ACORDANCE WITH MANUFACTURES AND ENGINEERS SEPCIFICATIONS AND MUST CPOMPLY WITH THE NCC

MEGA ANCHOR BRACE STRUTS ARE TO BE SELECTED IN ACORDANCE TO THE MANUFACTURES SPECIFICATION. THE BRACE STRUTS MUST BE HOT DIP GALVANISED UNLESS SPECIFIED BY OTHERS

5. MEGA ANCHOR FIXINGS: ALL MEGA ANCHOR PILES, RISER AND BRACING FIXINGS MUST BE MINIMUM 14G TEC SCREW FOR GALVANISED FIXINGS AND 12G TEC SCREW FOR STAINLESS STEEL FIXINGS. UNLESS SPECIFIED BY OTHERS

6. MEGA ANCHOR PILE TEST: A PILE TEST IS REQUIRED TO CONFIRM PILE LENGTHS REQUIRED TO ACHIEVE WORKING LOADS, UNLESS OTHERWISE SPECIFIED.

THE PILE TEST IS TO BE RECORDED AS SPECIFIED IN THE MEGA ANCHOR DESIGN AND INSTALLATION DOCUMENTS

7. MEGA ANCHOR LOAD TEST: A MEGA ANCHOR LOAD TEST CAN BE CONDUCTED TO DETERMINE THE WORKING LOADS IF A PILE TEST IS INCONCLUSIVE.

### GENERAL NOTES

MEGA ANCHOR FOOTINGS:

1. THE MEGA ANCHOR FOOTING SYSTEM SHOWN ON THESE

DRAWINGS IS TO THE SPECIFICATIONS AND CERTIFICATION

PROVIDED BY THE SUPPLIER.

2. REFER TO MEGA ANCHORS DESIGN AND INSTALLATION DOCUMENTS FOR ALL INSTALLATION SPECIFICATIONS AND DETAILS.

3. A TEST PILE IS REQUIRED TO CONFIRM PILE LENGTHS REQUIRED TO ACHIEVE WORKING LOADS, UNLESS OTHERWISE SPECIFIED

THE PILE TEST IS TO BE RECORDED AS SPECIFIED IN MEGA ANCHORS DESIGN AND INSTALLATION DOCUMENTS.

4. A SOIL INVESTIGATION MAY BE REQUIRED BY THE BUILDING SURVEYOR OR BY THE MEGA ANCHOR INSTALLER AS PART OF THE WORKS.

5. FOOTINGS ARE TO BE LOCATED OUTSIDE OF THE ZONE OF INFLUENCE OF TREE ROOTS. IF FOOTINGS ARE EXPECTED TO BE WITHIN THE ZONE OF INFLUENCE OF TREE ROOTS, SEEK CLARIFICATION ON REQUIRED FOUNDING REQUIREMENTS FROM MEGA ANCHOR.

6. THE MEGA ANCHOR FOOTINGS ARE TO BE COORDINATED ONSITE WITH EXISTING SERVICES PRIOR TO INSTALLATION.

CARE SHOULD BE TAKEN TO IDENTIFY ANY SERVICES BOTH INSIDE AND OUTSIDE OF EASEMENTS.

IF SERVICES ARE FOUND THAT CLASH WITH THE MEGA ANCHOR LOCATIONS, A RISK ASSESSMENT SHOULD BE CARRIED OUT BEFORE PROCEEDING WITH THE INSTALLTION OF THE MEGA ANCHOR SYSTEM. THE SERVICES SHOULD BE LOCATED AND OR EXPOSED BEFORE THE INSTALLATION OF THE MEGA ANCHORS IN THE AFFECTED AREA

### GENERAL NCC NOTES

ALL MATERIALS AND WORK PRACTICES SHALL COMPLY WITH, BUT NOT LIMITED TO THE BUILDING REGULATIONS 2018, NATIONAL CONSTRUCTION CODE SERIES 2019 BUILDING CODE OF AUSTRALIA VOLUME 1, VOLUME 2 AND ALL RELEVANT CURRENT AUSTRALIAN STANDARDS UNLESS OTHERWISE SPECIFIED, THE TERM NCC SHALL REFER TO NATIONAL CONSTRUCTION CODE SERIES 2019 BUILDING CODE OF AUSTRALIA VOLUME 1.

ALL MATERIALS AND CONSTRUCTION PRACTICE SHALL MEET THE PERFORMANCE REQUIREMENTS OF THE NCC. WHERE A PERFORMANCE SOLUTION IS PROPOSED THEN, PRIOR TO IMPLEMENTATION OR INSTALLATION, IT FIRST MUST BE ASSESSED AND APPROVED BY THE RELEVANT BUILDING SURVEYOR AS MEETING THE PERFORMANCE REQUIREMENTS OF THE NCC.

ALL WORKS SHALL COMPLY TO THE FOLLOWING AUSTRALIAN STANDARDS;

. AS 2159 - 2009 PILING - DESIGN AND INSTALLATION  
. AS 4312-2008 ATMOSPHERIC CORROSIVITY ZONES IN AUSTRALIA

. AS 2870 - RESIDENTIAL SLABS AND FOOTINGS

. AS 1684 - NATIONAL TIMBER FRAMING CODE

. AS 3660.1 - CODE OF PRACTICE FOR PHYSICAL

BARRIERS USED IN THE PROTECTION OF BUILDINGS AGAINST SUBTERRANEAN TERMITES

. AS 3700 - MASONRY IN BUILDINGS

. AS 4055 - WIND LOADINGS FOR HOUSING

. AS 4100 - STEEL STRUCTURES

TERMITE PROTECTION:

WHERE THE BUILDING (EXCLUDES A DETACHED CLASS 10) IS LOCATED IN A TERMITE PRONE AREA

THE BUILDING IS TO BE PROVIDED WITH A TERMITE MANAGEMENT SYSTEM.



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PROJECT  
GlamXperience

PROJECT NO.  
<GX - 2023>

DATE MODIFIED  
September 28, 2023

DRAWING TITLE  
Mega Anchor Notes

PROJECT STAGE  
Construction Documents

PAPER SIZE  
A3

Customer:  
GlamXperience

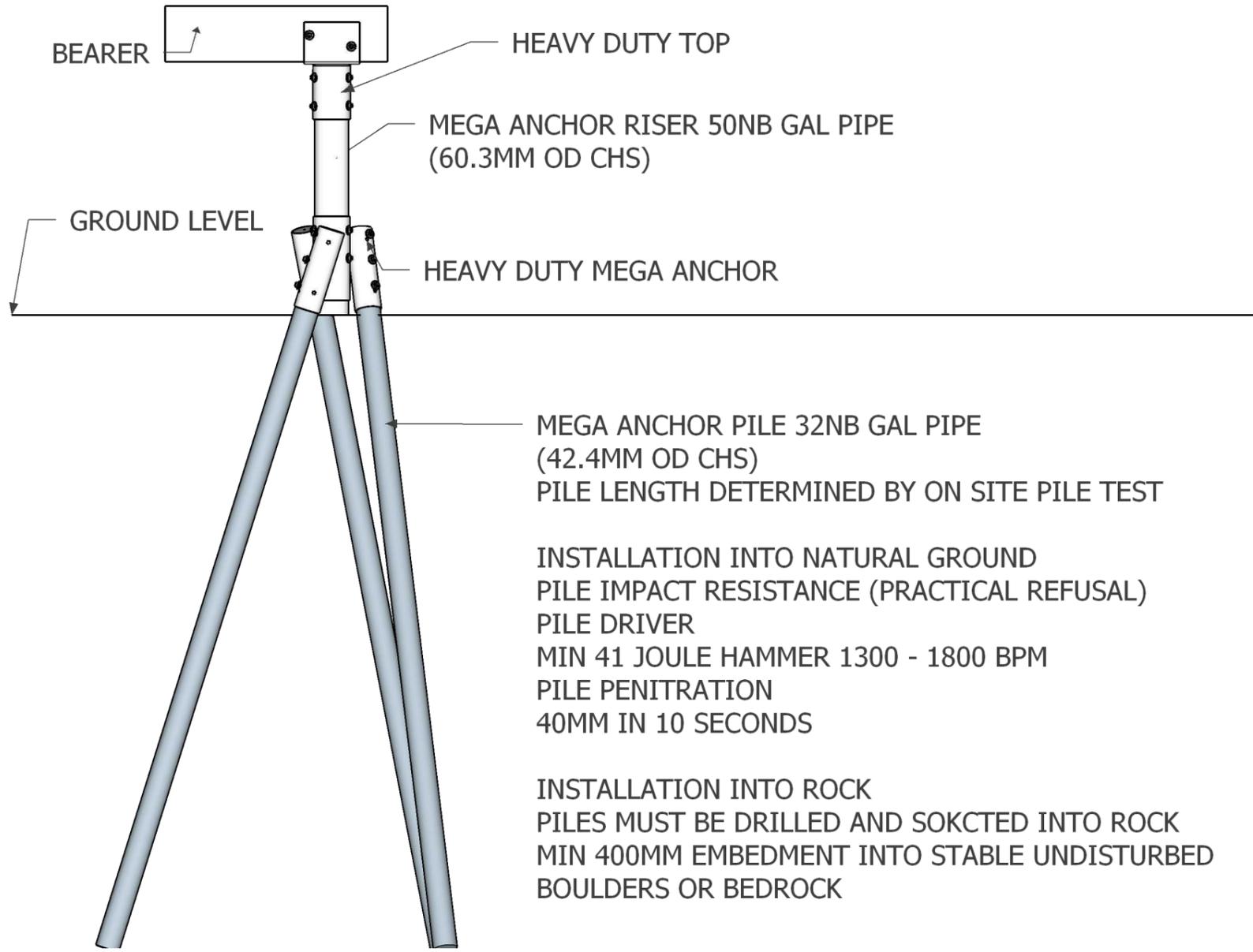
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DRAWING NUMBER

# S101

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-B

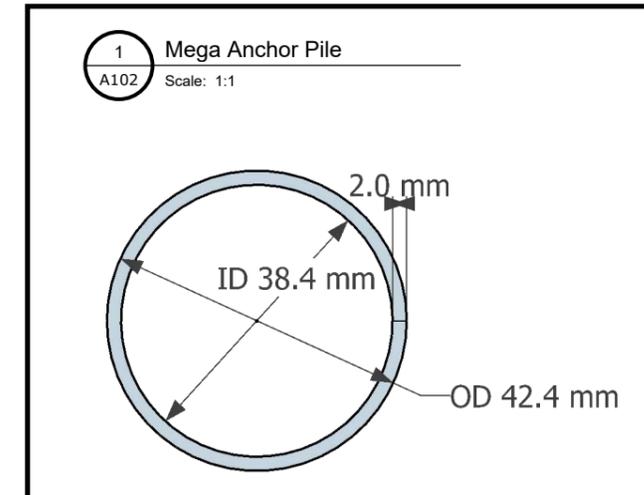
# Mega Anchor Pile Design



MEGA ANCHOR PILE 32NB GAL PIPE  
(42.4MM OD CHS)  
PILE LENGTH DETERMINED BY ON SITE PILE TEST

INSTALLATION INTO NATURAL GROUND  
PILE IMPACT RESISTANCE (PRACTICAL REFUSAL)  
PILE DRIVER  
MIN 41 JOULE HAMMER 1300 - 1800 BPM  
PILE PENETRATION  
40MM IN 10 SECONDS

INSTALLATION INTO ROCK  
PILES MUST BE DRILLED AND SOKCTED INTO ROCK  
MIN 400MM EMBEDMENT INTO STABLE UNDISTURBED  
BOULDERS OR BEDROCK



1 Mega Anchor Pile Design  
A102 Scale: 1:10

## **MEGA ANCHOR PILE DESIGN DETAILS**

PILE SIZE	42.4MM OD
PILE WALL THICKNESS	2.0MM
PILE GRADE	250



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Mega Anchor Pile Design

PROJECT STAGE  
Construction Documents

PAPER SIZE  
A3

Customer:  
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Site Address:

DRAWING NUMBER

# S102

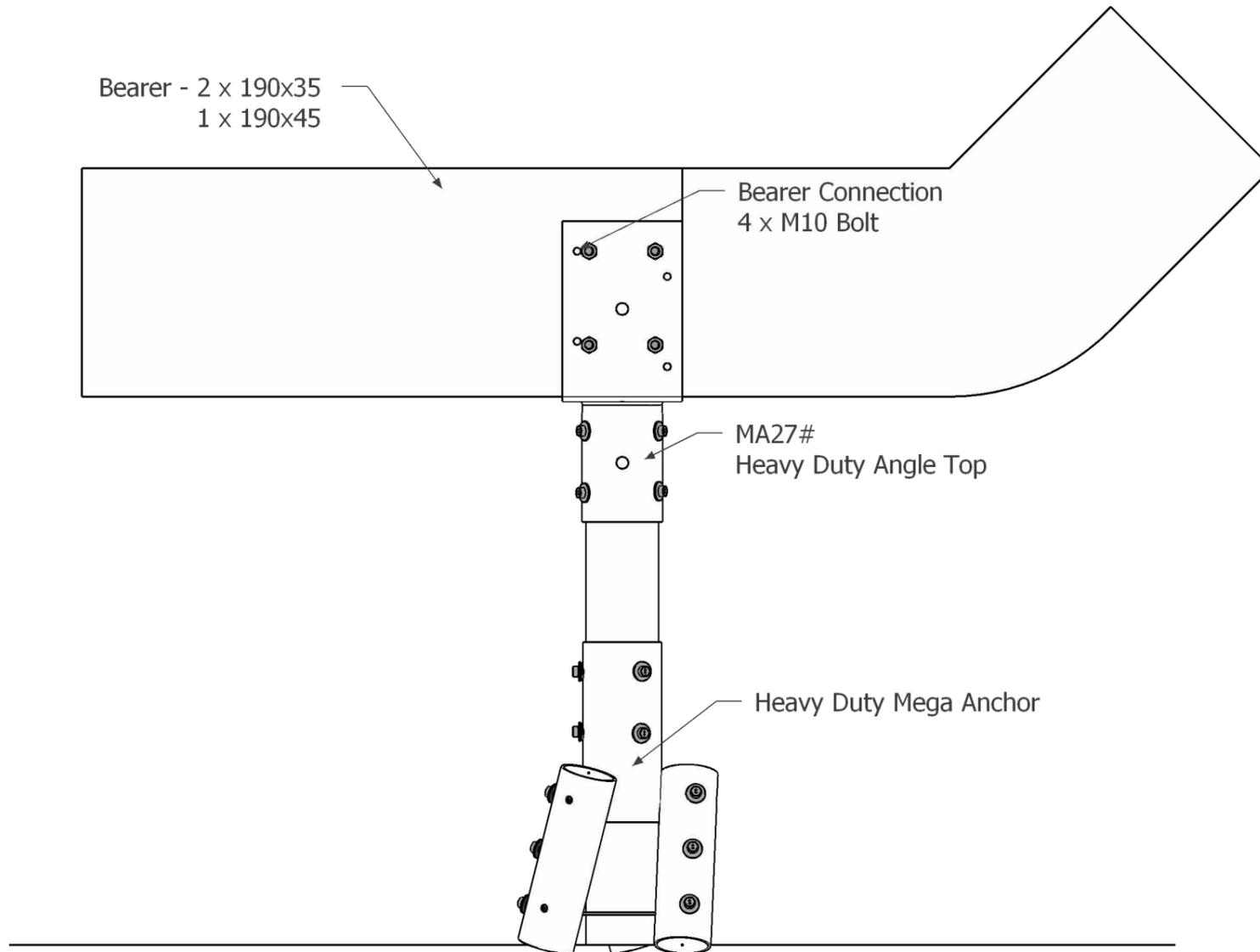
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# Mega Anchor Connections

Product and Material Schedule:  
 Mega Anchor: Heavy Duty Mega Anchor  
 Mega Anchor Top: Heavy Duty Top  
 Pile Material: 32NB Gal Pipe  
 Riser Material: 50NB Gal Pipe



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DRAWING TITLE  
 Mega Anchor Connections 3

PROJECT STAGE  
 Construction Documents

PAPER SIZE  
 A3

Customer:  
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**S105**

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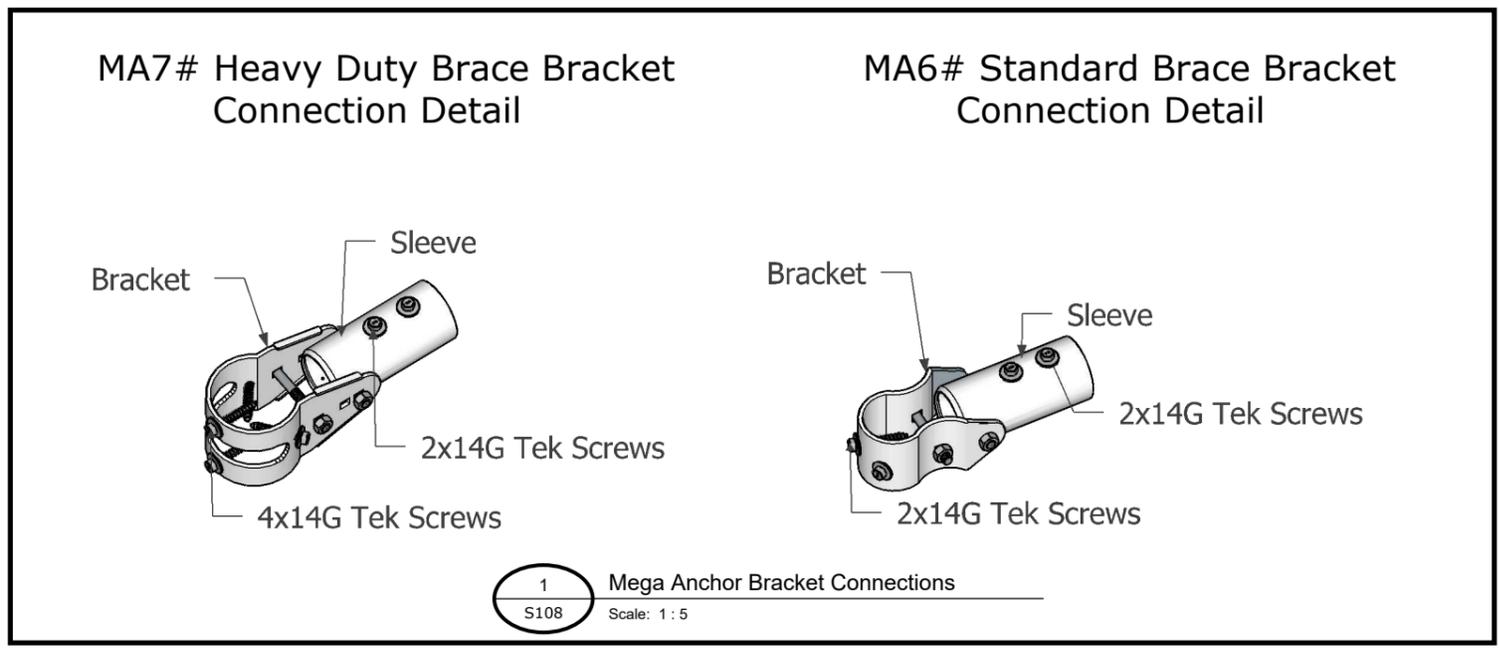
# Mega Anchor Bracing Detail



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**Product and Material Schedule:**  
 Mega Anchor: Heavy Duty Mega Anchor  
 Mega Anchor Top: Heavy Duty Top  
 Pile Material: 32NB Gal Pipe - Grade 250  
 Riser Material: 50NB Gal Pipe - Grade 250  
 Bracing Material: 32NB Gal Pipe - Grade 250

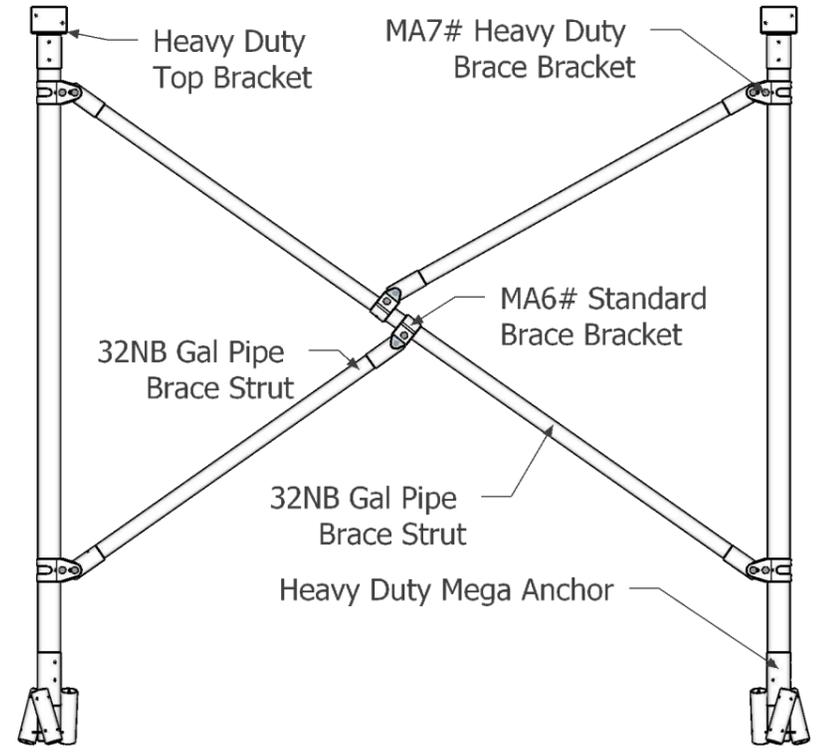
**Mega Anchor Bracing Schedule:**  
 Mega Anchor Angle Brace - SWL - 5kN - B2  
 Mega Anchor Cross Brace - SWL - 10kN - B1



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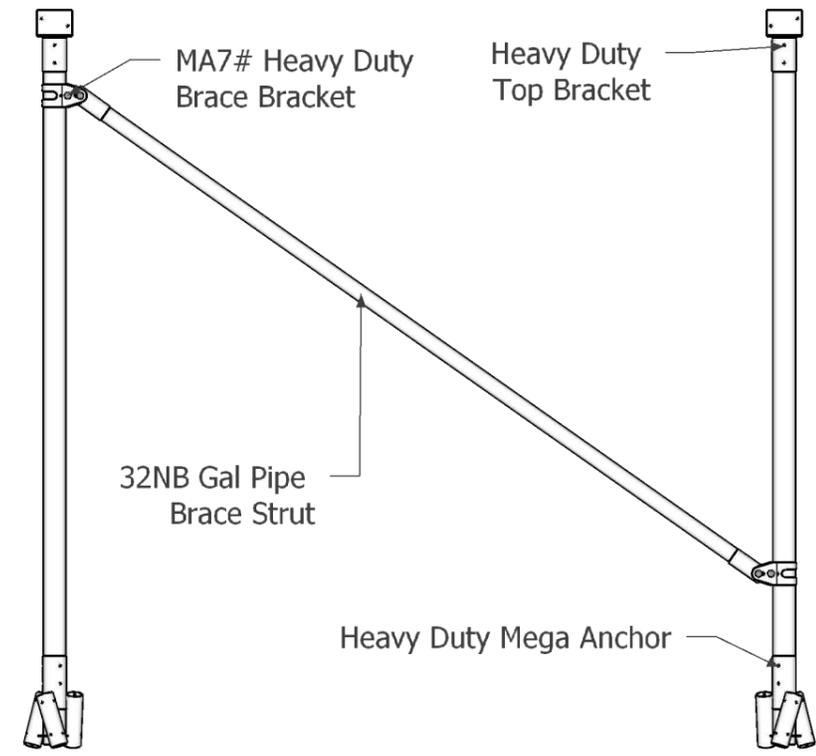
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## Mega Anchor Cross Brace - B1 Typical



2 Mega Anchor Cross Brace  
 S108 Scale: 1 : 20

## Mega Anchor Angle Brace - B2 Typical



3 Mega Anchor Angle Brace  
 S108 Scale: 1 : 20

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 <GX - 2023>

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 Mega Anchor Bracing Detail

PROJECT STAGE  
 Construction Documents

PAPER SIZE  
 A3

Customer:  
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Site Address:

DRAWING NUMBER

# S108

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