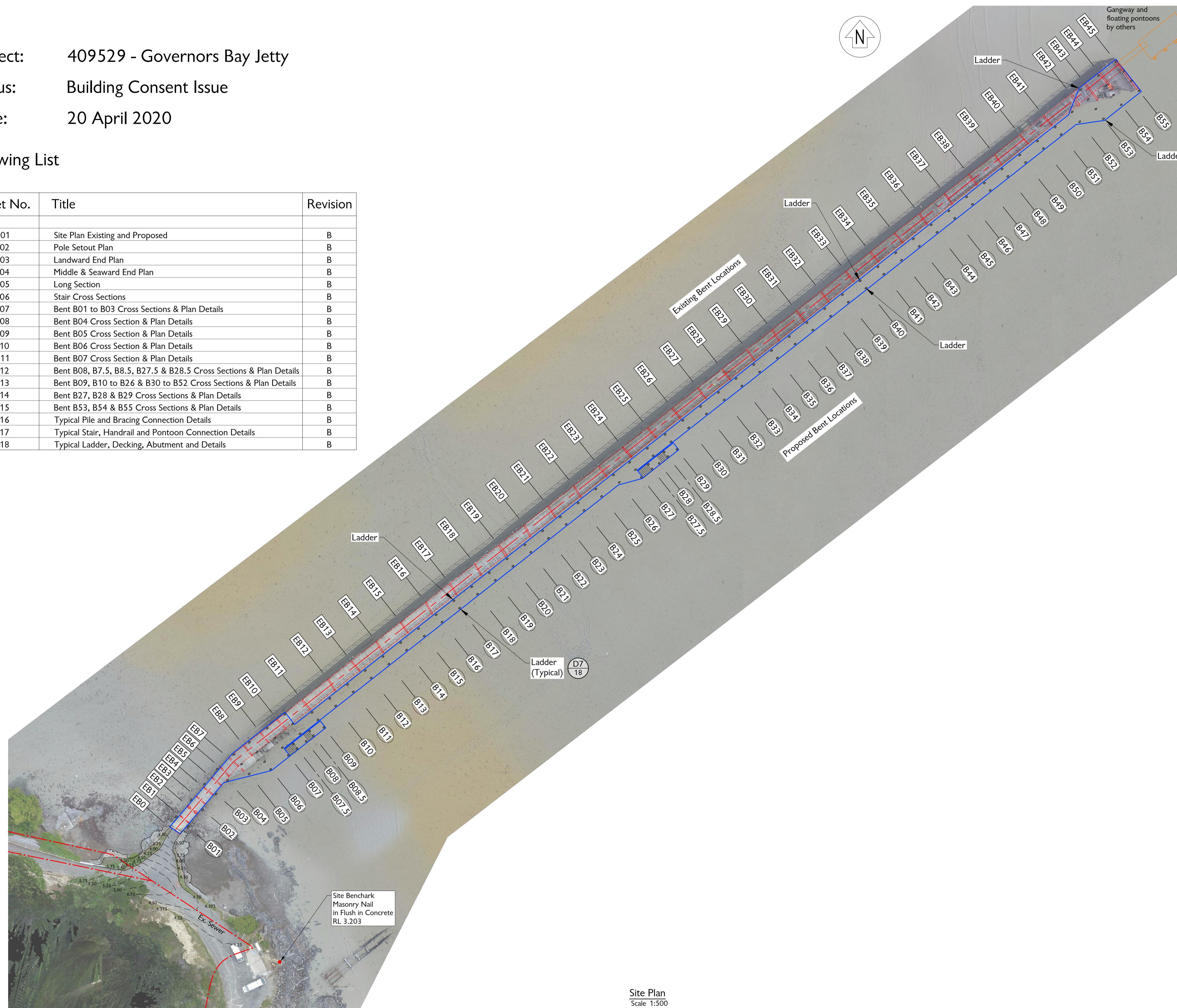


Project: 409529 - Governors Bay Jetty
 Status: Building Consent Issue
 Date: 20 April 2020

Drawing List

| Sheet No. | Title | Revision |
|-----------|---|----------|
| 01 | Site Plan Existing and Proposed | B |
| 02 | Pole Setout Plan | B |
| 03 | Landward End Plan | B |
| 04 | Middle & Seaward End Plan | B |
| 05 | Long Section | B |
| 06 | Stair Cross Sections | B |
| 07 | Bent B01 to B03 Cross Sections & Plan Details | B |
| 08 | Bent B04 Cross Section & Plan Details | B |
| 09 | Bent B05 Cross Section & Plan Details | B |
| 10 | Bent B06 Cross Section & Plan Details | B |
| 11 | Bent B07 Cross Section & Plan Details | B |
| 12 | Bent B08, B7.5, B8.5, B27.5 & B28.5 Cross Sections & Plan Details | B |
| 13 | Bent B09, B10 to B26 & B30 to B52 Cross Sections & Plan Details | B |
| 14 | Bent B27, B28 & B29 Cross Sections & Plan Details | B |
| 15 | Bent B53, B54 & B55 Cross Sections & Plan Details | B |
| 16 | Typical Pile and Bracing Connection Details | B |
| 17 | Typical Stair, Handrail and Pontoon Connection Details | B |
| 18 | Typical Ladder, Decking, Abutment and Details | B |



Site Plan
Scale 1:500

- Notes:**
- General:**
- All work shall comply with the New Zealand Building Code.
 - The Contractor shall check all dimensions onsite prior to commencing work.
 - The project drawings shall be read in conjunction with the specification. Any discrepancies shall be referred to the Engineer for review and approval prior to proceeding.
 - On completion of the work, the contractor shall provide PS3 Construction Producer Statements for the construction work. The form of the PS3 shall be as per the Christchurch City Council Standard form B-085.

- Workmanship:**
- Timber construction shall be undertaken in accordance with best trade practice, and this shall be deemed to include those methods, practises and processes contained in current syllabuses for New Zealand Trade Certificates in carpentry, joinery and New Zealand Timber Industry Federation Timber Design Guide. Reference should also be made to the appropriate New Zealand Standards.
 - All steelwork, fabrication, welding and erection shall comply with NZS3404:1997 & NZS5131. Where conflicts exist, the stricter requirements shall apply.

- Timber Grades:**
- Decking, balustrade framing (posts, rails and toe kicks) and stringer beams:
- Eucalyptus Globoides heartwood.
 - No sapwood or corewood. Corewood includes the pith plus surrounding wood with a density less than 80% that of the density of mature trees.
 - Visual graded in accordance with AS2082:2007 to achieve:
 - Stringers - Structural Grade 2
 - Balustrade Framing & Decking - Structural Grade 3
 - Minimum characteristic properties:
 - Bending strength $f_b = 48\text{MPa}$
 - Modulus of elasticity $E = 13.6\text{GPa}$
 - Minimum natural durability class 2 to AS5604, equivalent to hazard class H3.2 to DZ3602.

- Pile capping beams:**
- Mixed Australian hardwoods.
 - To comply with AS3818.7.
 - Minimum stress grade F17 (unseasoned)/F22 (seasoned) to AS1720.1
 - Minimum natural durability class 1 to AS5604 or natural durability class 2 with additional CCA treatment to hazard class H5.

- Stair timber including stringers, associated capping beams, stair and landing treads:**
- Mixed Australian hardwoods.
 - To comply with AS3818.7.
 - Minimum stress grade F17 (unseasoned)/F22 (seasoned) to AS1720.1
 - Minimum natural durability class 1 & marine borer durability class 1 to AS5604 or, natural durability class 2 with additional CCA treatment to hazard class H6.

- 300 SED piles:**
- Mixed Australian hardwoods.
 - To comply with AS3818.3.
 - Minimum stress grade F22.
 - Minimum durability class 2 to AS5604 with additional CCA treatment to hazard class H6.

- Bracing:**
- NZ Radiata Pine round timber - TTT UniLog.
 - Minimum outer zone density of 450kg/m³.
 - CCA treatment to hazard class H6.

- Timber Fixings:**
- All steel fixings for timber shall be from grade 316 stainless steel with 2B finish or better.
 - Decking screws to be 14 gauge x 100 long, Type 17 bugle head from grade 316 stainless steel.
 - Unless noted otherwise, every bolt/threaded rod shall be fitted into prebored holes of a diameter approximately 10% greater than the bolt diameter and be provided with grade 316 stainless steel washers under both heads and nuts as follows:
 - M24: 26mm diameter hole with 75x75x6mm square washers
 - M20: 22mm diameter hole with 60x60x5mm square washers
 - M16: 18mm diameter hole with 60x60x5mm square washers
 - M12: 14mm diameter hole with 50x50x3mm square washers
 - M10: 12mm diameter hole with 40x40x3mm square washers
 - All coach screws shall be fitted into prebored holes of a diameter equivalent to the bolt shank diameter.
 - Washers shall be sufficiently recessed into all timber faces to full face contact with the timber member.
 - Threaded ends to extend 10-15mm past nut and be burred off to prevent malicious removal.
 - All prebored holes for bolts/threaded rods shall be packed with grease prior to fitting washers and nuts.
 - To accommodate shrinkage of jetty members constructed from Eucalyptus G, the contractor shall allow to check and tighten all associated nuts after 12months following the construction of the jetty before burring threads.
 - Bolt hole locations and timber edge distance dimensions as detailed shall have a tolerance of +/-5mm.

Moisture Content
 Moisture content of decking at the time of installation shall be less than 20% to minimise cupping.

- Post Treatment of Cut Timber**
 Treat the following timber features with a preservative such as 2 coats of Metalex Timber Preservative (or similar approved) in accordance with NZMP 3640:
- Cut ends, notches, recesses and drilled holes to timber framing located below R.L. = 2.9m.
 - Cut ends, notches and recesses to timber stringers and associated balustrade blocking.

- Timber Distortions:**
- Timber beams shall be placed with natural camber up.
 - The Contractor shall allow to correct horizontal bowing of Eucalyptus Globoides stringer beams by placing them such that adjacent beams have opposing bows and installing midspan blocking. Refer typical detail on drawing Sheet 17.

BUILDING CONSENT ISSUE

| | | | | | | | | | | | | | |
|------|----------------------|-------|------------|-------------------|--------------|---------------|------------|--------|---------------------------------|-------------|---------|---------|------|
| Rev. | Description | Drawn | Date | Surveyed: | Survey Date: | Name | Date | Client | Project Title | Project No. | Set No. | Sht No. | Rev. |
| A | DRAFT for comment | BJS | 31.01.2020 | | | T. Armstrong | 21.11.2019 | | Governors Bay Jetty | 409529 | S1 | 01 | B |
| B | For Building Consent | VM | 20.04.2020 | Coord System: | | V. Malgin | 09.12.2019 | | | | | | |
| | | | | Calibration: | | T. Armstrong | 30.01.2020 | | | | | | |
| | | | | Origin of Levels: | Datum: | T. Armstrong | 31.01.2020 | | | | | | |
| | | | | | | Design Review | Date | | Drawing Title | | | | |
| | | | | | | Approved | Date | | Site Plan Existing and Proposed | | | | |
| | | | | | | | | | Scales | | | | |
| | | | | | | | | | 1:500 [A1] 1:1000 [A3] | | | | |