



**Northern Region
South East Queensland
Joint Regional Councils**

Specification No. C265



**QUEENSLAND
DEVELOPMENT
CONSTRUCTION
SPECIFICATION**

C265

BOUNDARY FENCING



Coolool Shire Council



Noosa Council

Contract No.

BOUNDARY FENCING

QUEENSLAND

DEVELOPMENT CONSTRUCTION SPECIFICATION

C265

BOUNDARY FENCING

These Specifications have been tailored from the AusSpec Standard Specifications for use within Pine Rivers Shire Council, and in consultation with the Northern Region, South East Queensland, group of Councils.

This group includes Pine Rivers Shire, Redcliffe City, Caboolture Shire, Caloundra City, Maroochy Shire, Noosa Council and Coolool Shire.



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Amendment Record for this Specification Part

This Specification is Council's edition of the AUS-SPEC generic specification part and includes Council's primary amendments.

Details are provided below outlining the clauses amended from the Council edition of this AUS-SPEC Specification Part. The clause numbering and context of each clause are preserved. New clauses are added towards the rear of the specification part as special requirements clauses. Project specific additional script is shown in the specification as italic font.

The amendment code indicated below is 'A' for additional script 'M' for modification to script and 'O' for omission of script. An additional code 'P' is included when the amendment is project specific.

Amendment Sequence No.	Key Topic addressed in amendment	Clause No.	Amendment Code	Author Initials	Amendment Date
<i>EXAMPLE 1</i>	<i>Provision for acceptance of nonconformance with deduction in Payment</i>	<i>XYZ.00</i>	<i>AP</i>	<i>KP</i>	<i>2/6/97</i>
1	All document – remove the word “boundary” from boundary fencing.	All	M	LDP/DKM	18/9/02
2	GALVANISED POSTS, AND BRACES AND RAILS – add “and rails”	C265.04	M	LDP/DKM	18/9/02
3	CHAIN WIRE – re-word	C265.05 Part 1	M	LDP/DKM	18/9/02
4	GENERAL – add “Authorised Officer”	C265.14 Part 2	M	LDP/DKM	18/9/02
5	CHAIN LINK FENCING change “the” to “tie”	C265.15 (b) Part 2	M	LDP/DKM	18/9/02
6	RABBIT-PROOF FENCING	C265.17 - all	O	LDP/DKM	18/9/02
7	REMOVAL AND DISPOSAL OF SURPLUS MATERIAL AND RUBBISH	C265.23 Part 2	M	LDP/DKM	18/9/02
8	CATTLE GRIDS	C265.24	M	LDP/DKM	18/9/02



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BOUNDARY FENCING**SPECIFICATION C265 – BOUNDARY FENCING****GENERAL INFORMATION****C265.01 SCOPE**

1. The work to be executed under this Specification includes setting out, clearing of fence line, supply of material and erection of fencing and gates, in accordance with the Drawings or as directed by the Superintendent.

C265.02 REFERENCE DOCUMENTS

1. Documents referenced in this Specification are listed in full below whilst being cited in the text in the abbreviated form or code indicated.

**Documents
Standards Test
Methods**

(a) Council Specifications

- | | | |
|------|---|-----------------------|
| C212 | - | Clearing and Grubbing |
| C271 | - | Minor Concrete Works |

(b) Australian Standards

- | | | |
|---------------|---|--|
| AS 1289.5.4.1 | - | Compaction control test - Dry density ratio, moisture variation and moisture ratio |
| AS 1725 | - | Galvanised Rail-less Chainwire Security Fences and Gates |
| AS 2423 | - | Galvanised Wire Fencing Products |

(c) Queensland Department of Main Roads Publications

- | | | |
|--------|---|--|
| QMUTCD | - | Queensland Manual of Uniform Traffic Control Devices |
|--------|---|--|

MATERIALS**C265.03 GENERAL**

1. All materials shall be supplied by the Contractor and shall be of dimensions, manufacture and quality in accordance with the requirements of this Specification and all galvanised wire fencing products shall conform to AS 2423.
2. For each type of material to be supplied, the Contractor shall submit to the Superintendent for approval the source, manufacturer, and also the type if applicable.
3. No materials shall be used until approved by the Superintendent.

**Dimensions and
Quality**

**Details to be
Provided**

**Approved
Materials**

C265.04 GALVANISED POSTS, BRACES AND RAILS

1. All posts, bracing and rails shall be galvanised iron pipe in accordance with AS 1725. The pipes shall be to the dimensions shown on the Drawings.

Dimensions



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C265.04 GALVANISED POSTS, BRACES AND RAILS Cont.

2. All pipe joints shall be welded. All welds shall be satisfactorily cleaned and painted with a cold galvanising compound to the satisfaction of the Superintendent.

Welded Joints

C265.05 CHAIN WIRE

1. Galvanised chain wire mesh, 1200mm high 1450mm high or 1830mm high for Manproof Fencing shall be of 3.15mm diameter wire woven to a 50 x 50mm square mesh. Chain wire shall be supplied in lengths of not less than 30m. The zinc coating shall be uniform, continuous, free from imperfections and thoroughly adherent. The coating shall be applied to the wire before the mesh is woven. The weight of the zinc coating shall not be less than 290 g/sqm of wire surface.

Dimensions and Zinc Coating

2. Where specified, the chain wire shall be coated in black PVC after galvanising.

PVC Coating

C265.06 WIRE NETTING

1. Wire netting shall be standard quality galvanised 1.40mm diameter wire, 40mm mesh, 1.05m wide for normal use and 1.60mm diameter wire, 50mm mesh, 0.90m wide where used in creek crossings.

Dimensions

C265.07 GATES

1. Gates shall be of galvanised tubular steel construction, 3.6 metres in width by 1.5 metres or 1.2 metres (as specified) in height, and shall be fitted with substantial hinges, catch, drop bolts and locking chains unless otherwise shown on the Drawings or directed by the Superintendent.

Dimensions and Fittings

C265.08 REINFORCED CONCRETE POSTS

(a) Strainer Posts

Dimensions

1. Concrete strainer posts shall be approximately 150 x 150 square in section and lengths as shown on the Drawings. Each post shall be provided with 12mm dia holes to suit the spacing of the wires shown on the Drawings for the particular type(s) of fencing to be erected.
2. The posts shall be reinforced longitudinally with not less than four reinforcing bars each 12mm diameter. All posts shall have suitable stirrup reinforcement to control diagonal cracking. Longitudinal reinforcement shall have 25mm minimum cover. End cover on reinforcement shall be 25mm.
3. The concrete shall have a minimum 28 day compressive strength of 20MPa.

Reinforcing Steel

Concrete Strength

(b) Intermediate Posts

1. Intermediate Posts shall generally conform to the requirements for Strainer Posts, except that the longitudinal reinforcing bars may be 9mm dia.

Quality



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BOUNDARY FENCING**C265.09 PRESTRESSED CONCRETE POSTS****(a) Strainer Posts**

1. At least four longitudinal high carbon deformed high tensile strands (or equivalent) of 5mm diameter, shall be provided. The strands shall be tensioned to a stress of 800MPa minimum prior to placing concrete. Cross sectional dimensions of the posts shall be as shown on the Drawings. **Tendons**
2. Concrete shall have a minimum compressive strength of 32MPa at 24 hours. **Concrete**
3. In lieu of holes for wires, grooves may be provided to suit the spacing of the wires shown on the appropriate Drawings for the particular types of fencing to be erected. The grooves shall be at least 5mm deep and 5mm wide at the surface of the post. **Grooves for Wire**

(b) Intermediate Posts

1. Intermediate posts and strainer stays shall generally conform to the requirements for Strainer Posts except that two only high tensile, high carbon deformed strands shall be required. **Quality**
2. Cross sectional dimensions shall be as shown on the Drawings. **Dimensions**

C265.10 STEEL POSTS (RURAL FENCING)

1. Steel posts shall be "STAR" pattern. Posts shall be drilled to suit the spacing of the wires shown on the Drawing(s), and shall be black varnished or galvanised. **Type**
2. The total weight of 300 posts each 1.65m long shall be at least one (1) tonne. **Weight**

C265.11 GALVANISED PIPE POSTS (RURAL FENCING)

1. Galvanised pipe posts shall be used where shown on the Drawings. The pipes shall be of the dimensions shown on the Drawings and shall be of first grade quality in accordance with AS 1725. **Dimensions and Quality**

C265.12 WIRES**(a) Plain Wire**

1. Plain wire shall be standard galvanised drawn annealed steel wire of diameters shown on the Drawings. **Type**

(b) High Tensile Plain Wire

1. High Tensile wire shall be galvanised and of diameters shown on the Drawings. **Type**

(c) Barbed Wire

1. Barbed wire including barbs shall be 2.5mm diameter galvanised drawn annealed steel wire, with clusters of four barbs spaced at 90mm maximum. Alternatively barbed wire may be of 1.6mm diameter high tensile steel wire, with clusters of barbs spaced at 90mm maximum. **Type and Dimensions**



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BOUNDARY FENCING**C265.12 WIRES Cont.****(d) Cable Wire**

- | | |
|--|----------------------------|
| 1. Cable wire shall consist of three pairs of 2 x 3.15mm galvanised iron wire tightly twisted around posts and located as shown in the Drawings. | Type and Dimensions |
|--|----------------------------|

(e) Tie Wire

- | | |
|--|----------------------------|
| 1. The wire shall be 2mm diameter galvanised wire. | Type and Dimensions |
|--|----------------------------|

C265.13 CONCRETE BACKFILLING

- | | |
|--|----------------------|
| 1. All concrete backfilling of post holes specified on the Drawings shall be of minimum 20MPa 28 day compressive strength and shall conform to the requirements of the Specification for MINOR CONCRETE WORKS. | Specification |
|--|----------------------|

CONSTRUCTION**C265.14 GENERAL**

- | | |
|---|------------------------------|
| 1. Fencing shall be erected prior to the commencement of other work on a particular section of the work, unless directed otherwise by the Superintendent. | Construction Priority |
| 2. All fencing shall be erected in a workmanlike manner, and when completed shall be sound, strong and of neat appearance. | Quality |
| 3. For a clear width of one metre on either side of the fence line, and for the full length of the line, all logs, boulders, stumps, roots, undergrowth and rubbish shall be removed and disposed of by the contractor in accordance with the Specification for CLEARING AND GRUBBING. Trees within this area shall be removed only as directed by the Superintendent and approved by Council's Authorised Officer. | Clearing |
| 4. If trees on or adjacent to the fence line are to be retained the arrangement of the fencing at the trees shall be as directed by the Superintendent. | Trees Retained |
| 5. Wire shall not be strained around or against any trees to be left in the fence line, and strainer posts are to be provided on both sides of each tree. | Trees on Fence Line |
| 6. Where minor irregularities occur in the ground the vertical alignment of the fence shall not follow these irregularities, but shall be aligned to a uniform grade between definite changes in the natural slope of the ground. | Uniform Grade |
| 7. All survey pegs shall be left undisturbed and the post spacing shall be altered slightly where necessary to avoid pegs. | Survey Pegs |
| 8. The Contractor shall maintain the fencing at all times in a condition secure against the ingress or egress of stock, and shall take such precautions as are necessary to prevent people or stock from stepping into holes excavated for the construction of fencing. | Stock Proof |



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BOUNDARY FENCING**C265.14 GENERAL Cont**

9. Where old fencing is to be replaced by new fencing, all holes left after removal of the old fencing shall be backfilled and rammed firmly in layers of maximum depth 150mm.
10. The Contractor shall be held responsible for any loss, damage, or injury to buildings, goods, crops, livestock, property of any kind or persons due to negligence on the Contractor's part.

Backfilling of Old Holes***Contractor's Responsibility*****C265.15 CHAIN LINK FENCING****(a) Erection of Posts**

1. All posts shall be erected vertically and set in concrete blocks approximately 250mm diameter and 600mm deep except for end, corner, strainer and gate posts which shall be set in concrete blocks approximately 250mm diameter and 900mm deep unless otherwise shown on the Drawings. Concrete shall have a minimum compressive strength of 20MPa at 28 days and shall conform to the requirements of the Specification for MINOR CONCRETE WORKS.
2. Galvanised weather caps shall be fitted to all galvanised posts.
3. Strainer posts shall be used at ends of fencing, angles, intersections with other fencing, gates and at intermediate points. Distances between strainer posts shall not exceed 120 metres.

Concrete Blocks and Quality***Weather Caps******Strainer Posts*****(b) Erection of Wire**

1. All wire shall be spaced as shown in the Drawings. Wire shall be securely fastened and strained to an even tension between strainer posts.
2. Where specified, or shown on the Drawings, chain wire mesh shall be erected on the outside of the posts and fastened with two turns of tie wire to each cable wire on both sides of each post and at intervals of not more than 900mm between posts and to each post midway between cable wires.

Fasten and Strain***Chain Wire Mesh*****C265.16 STOCK-PROOF FENCING****(a) Erection of Posts**

1. All posts shall be erected vertically. Reinforced concrete posts shall be erected in neatly cut holes sunk in earth, or in rock where this is encountered. Steel posts, except where placed in rock, shall be driven with suitable driving equipment, care being taken not to damage the tops of the posts during driving.
2. Where prestressed posts are proposed to be used, they shall be either erected as for reinforced concrete posts or shall be driven. Where driven, the Contractor shall use a suitable post driver which shall be equipped with two (2) sets of guiding rollers, to hold the post vertical and in position during driving.
3. A steel cap with a plywood cushion shall be used to protect the top of the post during driving.

Method***Driving Prestressed Posts******Protection Cap***



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BOUNDARY FENCING**C265.16 STOCK-PROOF FENCING Cont.**

4. If the post cannot be driven for the full depth specified, or if it becomes significantly damaged, or cannot be driven vertically, it shall be removed. The same post if undamaged, or a new post, shall be erected as described for reinforced concrete posts.

Removal of Posts

5. Posts shall be sunk to the depths shown in Table C265.1.

Type of Post	Depth	
	Earth	Rock
Concrete Corner Posts & Strain Posts	900	*600
Concrete Intermediate Posts	600	*450
Steel Posts	450	450
Note* Permitted only in cases where posts of the correct length are provided (see below), otherwise the depth of sinking shall be the same as for earth.		

Table C265.1
Post Depth in Ground

6. Cutting of concrete posts will not be permitted, and in order to take advantage of the lesser depth of sinking permitted in rock, it will be necessary to use posts manufactured in lengths to suit the depth of sinking. Where rock is encountered, steel posts shall be sunk in drill holes of sufficient diameter to permit them to be refilled with cement mortar consisting of one part of cement to two parts of clean sand.

Variations to Post Length

7. Earth shall be backfilled around intermediate posts in layers of maximum depth 150mm for the full depth of the hole and up to ground level. The relative compaction of the rammed material shall be not less than that of the original undisturbed ground.

Backfilling at Intermediate Posts

8. Where concrete posts are placed in rock, the space around the posts shall be tightly filled with cement mortar consisting of one part of cement to two parts of sand, or concrete where this is available.

Mortar Backfill

9. Strainer posts shall be used at ends of fencing, angles, intersections with other fencing, gates and at intermediate points. These posts shall be backfilled with approved concrete to their full depth.

Strainer Posts

10. Distances between strainer posts shall not exceed 120m in the case of fencing using steel intermediate posts, and 90m in the case of fencing for the retention of cattle (for which only concrete posts are permitted). Junctions with existing fencing shall be made in an approved manner.

Spacing of Posts



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C265.16 STOCK-PROOF FENCING Cont.

(b) Erection of Wires

1. All wire shall be placed as shown on the Drawings. Wires shall be securely fastened and strained to an even tension between strainer posts with an approved wire strainer. Where barbed wire is to be used, it shall be tied in position at the top of intermediate posts, and where additional barbed wires are called for they shall be secured to the sides of the posts as shown on the Drawings.
2. Where concrete posts are used and the barbed wires are secured either to the tops or sides of the posts by tie wire, the tie wire shall be stretched tight and shall fit snugly against the sides of the posts to prevent movement of the barbed wire.
3. Where prestressed posts are used, wires shall be securely tied so that they seat firmly in the grooves.
4. All joints in wires shall be as shown on the Drawings.

Fastening and Straining

Barbed Wire

Prestressed Posts

Wire Joints

C265.17 CROSSING OF WATERCOURSES AND DEPRESSIONS

1. The crossing of all watercourses and depressions, shall be made secure by longer posts, suitably struttled as directed by the Superintendent. Additional cable wire and chain wire/wire netting shall be provided as necessary to make the fence stock proof.
2. The fence shall allow the passage of floodwater without the accumulation of debris. If directed by the Superintendent, flood gates shall be provided in accordance with Clause C265.20.

Marsupial Proof

Floodwater

C265.18 CONNECTIONS TO EXISTING FENCES

1. Existing cross fences shall be connected to the new fence using a strainer post with braces in each direction of strain (including cross fence) and the wires in both fences properly fastened to the post.

Strainer Posts

C265.19 FLOOD GATES

(a) General

1. Suitable provision for the passage of flood waters past the fence shall be made at all watercourses. In all cases flood gates shall be of the type indicated on the Drawings, or as directed by the Superintendent, and shall be erected so as to prevent the accumulation of flood debris, while remaining stock-proof or rabbit-proof.

Requirements

(b) Small Watercourses

2. Flood gates, in accordance with the Drawings, shall be provided in small gullies at the locations indicated on the Drawings or as directed by the Superintendent. The opening of each flood gate shall provide a waterway area at least twice that of the culvert opposite to which it is placed, or as otherwise directed by the Superintendent.

Waterway Area



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BOUNDARY FENCING**C265.19 FLOOD GATES Cont.****(c) Large Gullies and Creeks**

- | | |
|---|----------------------------------|
| 1. Flood gates, in accordance with the Drawings, shall be provided in gullies and creeks at the locations indicated on the Drawings, or as directed by the Superintendent. | Location |
| 2. A 9mm galvanised wire rope shall be carried over the gully in one span, threaded through a strainer post and tied back to an anchor at an adjacent concrete intermediate post. Turnbuckles are to be provided at each end to tension the wire rope. Netting shall be suspended from the wire rope and shall be overlapped and securely tied. The netting shall be of sufficient length to lie on the ground for a distance of not less than 1.0m on the downstream side. | Construction Detail |
| 3. Ballast, of sound timber securely tied to the netting, shall be provided at the downstream end of the netting. | Netting Ballast |
| 4. The sides of the gully shall be trimmed, as necessary, to ensure that the flood gate shall be stock-proof or rabbit-proof. The flood gate shall have sufficient movement of the suspended portion under the flow of flood waters to prevent damage to the fence and the accumulation of debris against it. Each strainer post shall be stayed in three directions, as shown on the Drawings. | Construction Requirements |

C265.20 ERECTION OF GATES

- | | |
|---|-----------------------------|
| 1. Where gates are specified or shown on the Drawings, they shall be erected so that they swing away from the road. Double gates shall be supplied if directed by the Superintendent, otherwise a single gate only shall be supplied. | Swing Away From Road |
| 2. At the location of gates the surface shall be levelled and shall be nearly horizontal. The area where the gates swing shall be similarly levelled. | Level Surface |
| 3. The gates shall be hung as indicated in the Drawings. | Hanging |

C265.21 REMOVAL OF EXISTING FENCING

- | | |
|---|------------------------------------|
| 1. Where required, existing fencing is to be removed as shown on the Drawings. | Location |
| 2. No fencing is to be removed if there is a risk of egress or ingress of stock. If the existing fence is a rabbit-proof fence, then the contractor shall ensure that at night and weekends and other such times when work is not in hand that the whole of the fence is maintained in a rabbit-proof condition, even if temporary fencing is required. No extra payment will be made for this requirement. | Contractor's Responsibility |
| 3. All material removed in demolishing existing fencing shall be disposed by the Contractor as provided by Clause C265.23. | Old Material |

C265.22 REMOVAL AND DISPOSAL OF SURPLUS MATERIAL AND RUBBISH

- | | |
|---|------------------------------------|
| 1. All surplus material, offcuts, timber, roots and other debris resulting from the fencing contract shall be removed or otherwise disposed of to the satisfaction of the Superintendent. | Contractor's Responsibility |
|---|------------------------------------|



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BOUNDARY FENCING**C265.22 REMOVAL AND DISPOSAL OF SURPLUS MATERIAL AND RUBBISH Cont.**

2. The Contractor shall not burn any timber, vegetation or refuse on site unless specifically approved by Council's Authorised Officer. **Fire Control**

C265.23 CATTLE GRIDS

1. Cattle grids shall be erected in accordance with the Drawings. **Standard**
2. The cattle grid shall be evenly bedded on a continuous layer of compacted sand or other granular material approved by the Superintendent. The bedding material shall be compacted so that the relative compaction as determined by AS 1289.5.4.1 is not less than 95 per cent. **Bedding**
3. Cattle grids shall be installed on raised abutments with approach ramps where possible. Alternatively, a cattle grid may be placed over an excavated pit, in which case adequate drainage shall be provided. **Raised Abutments**
4. Crossfall for single lane cattle grids shall be level and for two lane cattle grids each section shall have a crossfall conforming to the crossfall of the approach road. **Crossfall**
5. The cattle grid construction shall include all activities associated with the cattle grid including any adjustments to the fencing as shown on the Drawings. **Extent of Work**
6. Advance signposting, in accordance with QMUTCD, shall be provided on each approach to the cattle grid in accordance with the Specification for SIGNPOSTING.

SPECIAL REQUIREMENTS**C265.24 RESERVED****C265.25 RESERVED****C265.26 RESERVED****C265.27 RESERVED****C265.28 RESERVED****C265.29 RESERVED****MEASUREMENT AND PAYMENT****C265.30 PAY ITEMS**

1. Payment shall be made for all the activities associated with completing the work detailed in this Specification on a schedule of rates basis in accordance with Pay items C265.30(a) to C265.30(d) inclusive.
2. If any item for which a quantity of work is listed in the Schedule of Rates has not been priced by the Contractor, it shall be understood that due allowance has been made in the prices of other items for the cost of the activity which has not been priced.



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C265.30 PAY ITEMS Cont.

3. A lump sum price for any of these items shall not be accepted.
4. Clearing and grubbing is measured and paid in accordance with this Specification and not in the Specification for CLEARING AND GRUBBING.
5. Concrete backfilling and blocks are measured and paid in accordance with this Specification and not in the Specification for MINOR CONCRETE WORKS.
6. Cattle grid signposting is measured and paid in accordance with this Specification and not in the Specification for SIGNPOSTING

Pay Item C265.30(a) - SUPPLY AND ERECTION OF FENCING

1. The unit of measurement shall be the linear metre of fencing, chain link, stock-proof or rabbit-proof, measured on site.
2. Separate pay items shall be shown for each type of fence specified.
3. The schedule rate under this Pay Item shall include the supply of all materials, the clearing of site, and all activities associated with the erection of the fence, including the levelling of mounds (if required), concreting, the provision of crossings for watercourses and depressions as necessary, flood gates as necessary and the connection of the new fence to existing fence where required. The schedule rate shall also cover all types of excavation material encountered during construction work, both earth and rock and the removal and disposal of surplus material and rubbish.

Pay item C265.30(b) - SUPPLY & ERECTION OF FENCE GATES

1. The unit of measurement shall be "each" gate erected.
2. The schedule rate shall include the supply of all material and all activities associated with the erection of each gate.

Pay item C265.30(c) - SUPPLY & INSTALLATION OF CATTLE GRID

1. The unit of measurement shall be "each" cattle grid installed.
2. The schedule rate shall include the supply of the cattle grid together with all activities associated with the construction of the cattle grid including bedding, approach ramps, wings, drainage, adjustment to fencing and the provision of signs.

Pay item C265.30(d) - REMOVAL OF EXISTING FENCE

1. The unit of measurement shall be the linear metre of fencing removed as measured on site.
2. The schedule rate shall include all activities associated with the demolition and disposal of the existing fence.