

# BECKHAMS ROAD MAIDEN GULLY

## GB4883

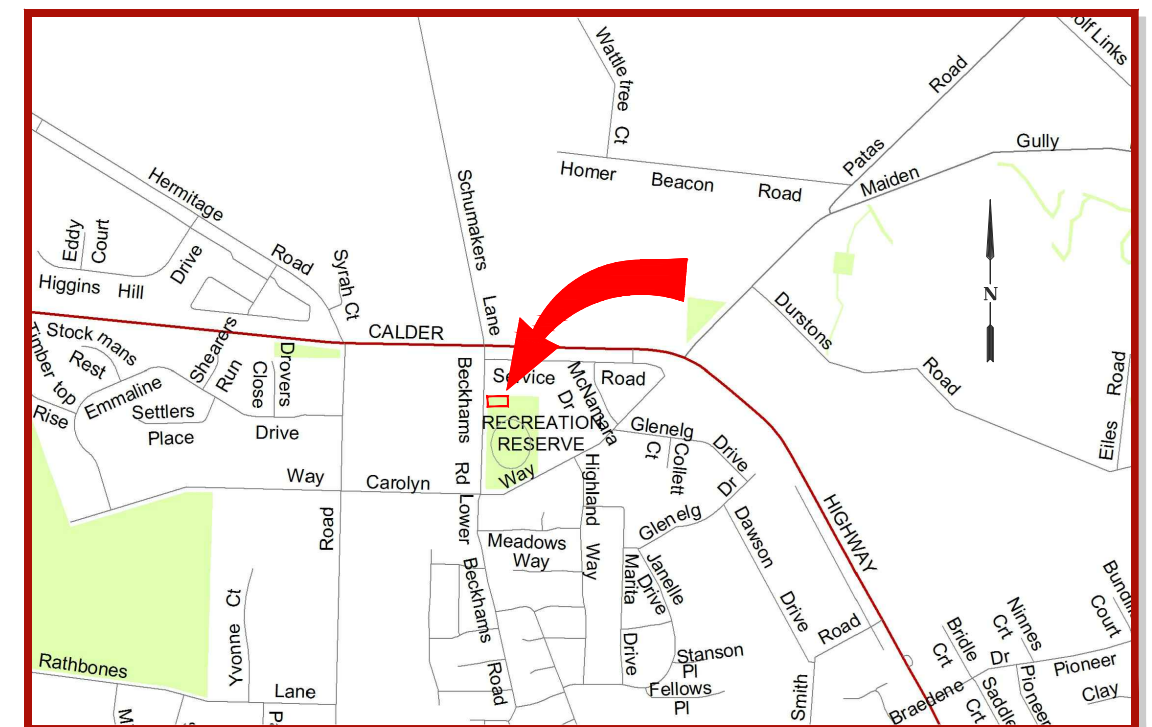
## TENNIS COURT RENEWAL



SEPTEMBER 2022



PROJECT EXTENTS



LOCALITY MAP

PROJECT PLANNING REQUIREMENTS				AMENDMENTS			
Item	Required	Comments	Contractor	Revision	Description	Approved by	Date
Vegetation	No	-		-	-	-	-
RRV	No	-					
CMA	No	-					
Planning Permit	No	-					
Land Acquisition	No	-					
CHMP	No	-					
Other	No	-					

**CITY OF GREATER BENDIGO**

BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL

COVER SHEET

Survey	H. WHYTECK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/22
Scale: -	Revision: A	
Original sheet size: A3	File: GB4883.dwg	
Sheet: 1 OF 14	Reference: GB4883	

**PRELIMINARY DESIGN  
DRAFT 3**

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER



CONSTRUCTION NOTES

- All Works to be carried out in accordance with CoGB Standard Drawings, Specifications, approved plans and to the satisfaction of the Superintendent's Representative.
- These notes also refer to the latest version of the Infrastructure Design Manual (IDM) and latest version of the IDM Standard Drawings.
- The Project Manager is to be notified seven days prior to the commencement of Works with a Pre-commencement meeting to be held between CoGB, the Consultant and the Contractor. A site management plan is to be submitted prior to the commencement of Works and prior to the onsite Pre-commencement meeting.
- Prior to commencement of the Works, the Contractor shall provide the following:
  - Source of quarry material
  - N.A.T.A. approved test results for the F.C.R that is to be used
  - If the source of the quarry material is changed during the course of the Works, then new test results shall be provided.
- Prior to commencement of Works on site, the Contractor must ensure that all matters relating to the Occupational Health and Safety Act 1985, have been and will be complied with.
- On the commencement of construction, the Contractor must comply with the recommendation of the Environment Protection Authority publication "Construction Techniques for Sediment Pollution Control". Appropriate siltation control is to be maintained throughout the construction and maintenance period of the Works.
- The disposal site for spoil storage, and truck removal route, is to be submitted in writing to, and approved by the Superintendent's Representative prior to the commencement of Works.
- Where Works are in the vicinity of existing services, these services are to be located and exposed prior to commencement of the work. Relevant authorities are to be notified 7 days prior to the Works.
- All dimensions are in metres unless noted otherwise.
- All levels are to Australian Height Datum (AHD) unless noted otherwise.
- All co-ordinates are to Map Grid of Australia (MGA) unless noted otherwise.
- The Contractor must arrange the inspection of the Works with the Superintendent's Representative as per the hold points in the Specifications, or as directed by the Superintendent's Representative.
- All redundant assets are to be removed and disposed off site unless noted otherwise.
- All service conduit trenches under road pavements, under footpaths and under swales are to be backfilled as per IDM SD310 unless noted otherwise. Compaction standards noted in SD310 shall be achieved.
- Blasting is not generally accepted.
- All existing assets affected by the Works (i.e. signs, vehicle crossings, footpaths, kerb and line marking) shall be reinstated by the Contractor before the completion of Works, to the satisfaction of the Superintendent's Representative.
- At the completion of all Works, all rubbish, debris and surplus spoil shall be removed and the site shall be cleared to the satisfaction of the Superintendent's Representative.
- The Contractor is to obtain a Building Permit for any structures, fences and for any retaining walls over 1.0m in height.
- Any infrastructure damage incurred during the Defects Liability Period noted on the contract is the responsibility of the Contractor and is to be reinstated to the satisfaction of the Superintendent's Representative.
- All disturbed areas (eg. nature strips, batters, allotments and reserves) are to be reinstated to a clean, tidy condition, top dressed with 75mm min. depth approved top soil, and seeded with a CoGB approved blend or unless otherwise noted. Soil & seeded treated areas must be satisfactorily established prior to the end of the Maintenance Period otherwise further treatment is required by the Contractor.
- Any exposed aggregate concrete works are to be achieved by sandblasting only. Washing aggregate off with water is not permitted.
- The Contractor shall notify the public of any impending road closures by providing sufficient signage 2 weeks prior to construction commencing.

FILL NOTES

- All earthworks and compaction are to be in accordance with VicRoad's Specification Section 204.
- All fill materials are to be approved by the Superintendent's Representative prior to being imported onto the site, and unless noted otherwise, shall be a clean clay based material free of vegetation matter or contaminants.
- All filling is to comply with AS3798-1996 Appendix B, level 1 (or 2) as specified
- The Contractor is responsible for ensuring that all imported fill material, including topsoil, satisfies the description for clean fill material in EPA bulletin publication No. 448 (Sep 95) and subsequent revisions. The Contractor shall provide verification including test certificates to the Superintendent's Representative.

SUBGRADE CONSTRUCTION NOTES

- The existing pavement (including asphalt & seal layers) to be pulverised to a depth of 200mm ensuring that all asphalt is ground to a suitable size for workability.
- Pulverised material to be windrowed and mixed to create a consistent mix over the full width of road before spreading, trimming and lightly compacting/shaping to form desired finished road level.
- After completion of excavation to subgrade finished level, subgrade material shall be inspected by the Superintendent's Representative before any stabilising commences. The nominated stabilising product, blend and spread rate shall be confirmed at this point once the formed subgrade material has been visually assessed by the Superintendent's Representative.
- Prior to spreading stabilising product, subgrade to be ripped to 200mm depth and moisture conditioned moderately before spreading of 12kg/m2 triple blended cementitious binder product. ie (20/60/20 GP/Slag/Lime).
- Selected binder to be spread and mixed evenly through (using mechanical stabiliser machine) at the selected stabilising depth, ensuring optimum moisture content is achieved. Where practically possible it is preferred that moisture is added during the mixing process by connecting a water cart to the mechanical stabiliser machine.
- Within 4 hours of binder being added, subgrade material should be graded & trimmed to level and compacted to a minimum density ratio of 98% Modified Maximum Dry Density.
- The Superintendents Representative may request density testing results of the subgrade as well as Unconfined Compressive Strength (UCS) Tests to confirm that the stabilising has achieved a satisfactory result.

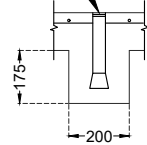
CONCRETE AND FOOTPATH CONSTRUCTION NOTES

- Footpath to be constructed to IDM SD205 unless noted otherwise.
- Expansion joints as per IDM SD210 to be constructed at any joins with existing footpath/driveways or bridges or where noted.
- IDM SD210 expansion joints along new sections of footpath are to be at a maximum separation of 14m centres as per IDM SD205.
- Tool joints are to be at 1.5m centres for 1.5m wide footpath, 2.5m centres for 2.5m wide footpath and to be constructed as per IDM SD210 unless noted otherwise.
- Batter work and associated top soiling is to be limited to 2.0m from design edge of the footpath or unless otherwise noted. This width cannot be altered without consent from the superintendent.
- Plant and equipment is to be kept within the finished works area to avoid unnecessary damage to nature strips.
- Pedestrian crossings are to be as per CoGB SD192.
- All TGSIs are to be black (if on plain concrete), or white (if on black concrete) and shall be fibre reinforced polymer type and positioned in accordance with AS1428 unless noted otherwise or by direction from the Superintendent.
- Any residential mailboxes found to be in conflict with councils proposed assets (within the road reserve) shall be relocated to a position within the property in consultation with the landowner. Should the mailbox be a brick or concrete structure, the mailbox shall be demolished and consultation with the Superintendent shall be sought prior to reconstruction of a similar structure within the property.
- Once works are completed, contractor must undertake a site walk with the Superintendent to identify any hazards or level differences with the works area. Once the site walk is complete, the area may be opened to public use.
- All fill material is to be clean clay based soil, free of vegetative matter and is to be approved by the Superintendent prior to use.
- All earthworks are to be in accordance with VicRoads Specification Section 204.

DRAINAGE CONSTRUCTION NOTES

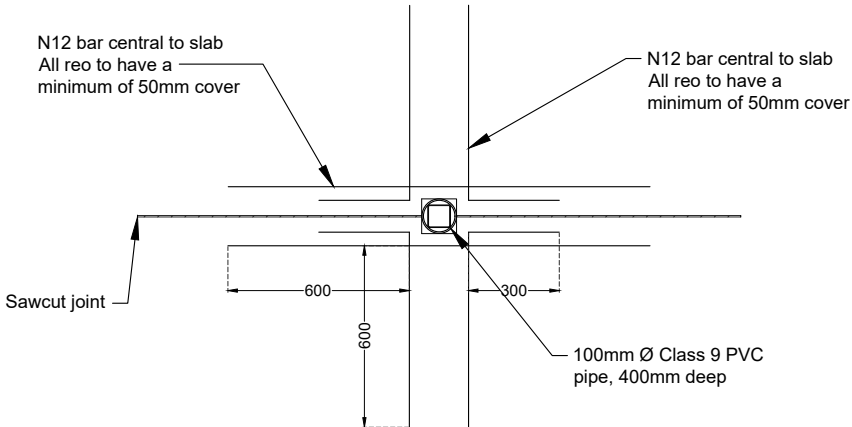
- The Superintendent's Representative and Design Engineer must be notified if any any modifications to drainage design are required due to unforeseen circumstances identified during works onsite.
- Any property storm water pipes located during Works are to be plumbed to the nearest pit. Where this is not practical, seek approval from the Superintendent's Representative to connect stormwater into kerb or into the nearest storm water pipe.
- All drainage pits are to be constructed as per the noted Standard Drawing.
- Invert fall through pits is to be a min. of 30mm unless noted otherwise.
- Concrete pit walls are to be sponge finished and floors are to be shaped for best hydraulic efficiency unless noted otherwise.
- Pit lids are to be installed flush with the surrounding surface unless noted otherwise.
- Where concrete box culverts (CBC) or Crown Units are specified, they are to be compliant to AS1597.
- Pipe extensions are to be constructed by removing the remaining stub of the existing pipe to be extended, and then connecting the new pipe at the socket.
- All pipe backfill is to be constructed as per the noted Standard Drawing.
- The location of any saw cuts in asphalt are to be kept the minimum required trench width until after the pipe is laid and backfilled up to 300mm from surface. At this point, a further 150mm wide, 300mm deep section of asphalt/pavement is to be sawcut and excavated so as to provide a longitudinal pavement join over the drainage trench. This also should ensure a straight edge for re-asphalting. The top 300m depth of backfill should then be constructed accordingly. Refer to CoGB SD 392.
- At the completion of the Works, pipes are to be visually inspected via inspection pits to check for construction debris, including crushed rock, soil and concrete over spill. Should a volume of debris be present enough to impede flows, pipe cleaning shall be undertaken at the contractors expense.
- Gas and water property services are generally not located during the design phase and therefore have not been shown on plans. It is therefore the Contractors responsibility to consider these services when excavating and adjust or realign accordingly whilst causing minimal disruption to property owners.
- Gas and Water property services encountered during construction are to be altered and reconnected to the appropriate standard and to the satisfaction of the Superintendents Representative.

OD 42mm Ø galvanised CHS with bottom end flattened, 6mm galvanised rod welded at top. To be set flush with finished court surface.



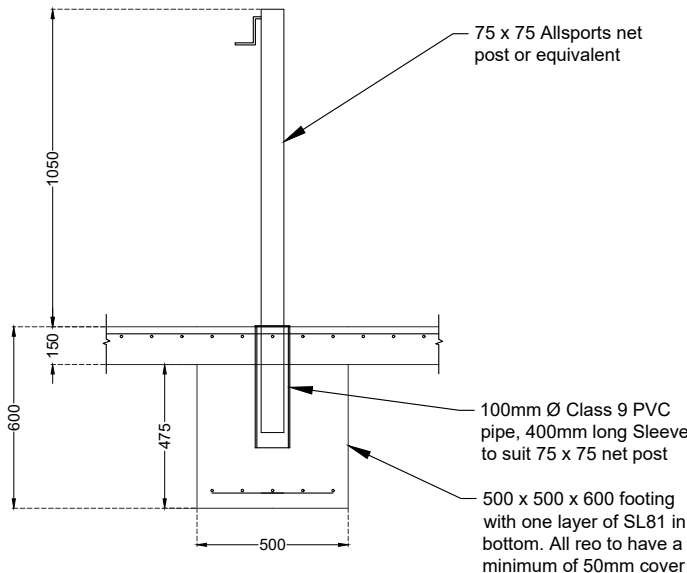
TENNIS NET TIE DOWN - SECTION

1 : 25



NET POST - PLAN

1 : 25



NET POST - SECTION

1 : 25



**IMPORTANT!**  
The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.

SERVICE AUTHORITY ASSETS WITHIN THE WORKS AREA

- SERVICE AUTHORITY UNDERGROUND INFRASTRUCTURE**
  - The location of underground services has been derived from available information, and shown on the plans. However accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only and exact service locations must be arranged onsite prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.
- PIT LIDS and VALVE COVER LEVELS and LOCATION**
  - All service pit lids or valve covers within the works area are to be raised or lowered to match design surface level unless noted otherwise on the construction plans, or by approval from the Superintendent.
  - Any service authority marker posts found within the works area are to be relocated adjacent to their current position to a point 150mm offset from the nearest property boundary.
- SERVICE AUTHORITY ASSET RENEWAL**
  - Any sewer pit covers and or water valve covers within the works area are to be renewed to Coliban Water standards unless noted otherwise.
  - PSM covers are to be renewed to CoGB standards using a 300x300mm galvanised steel checker plate flat cover.
  - All other valve covers or pits within the works area are not to be renewed unless noted otherwise on the construction plans, or by agreement with the Superintendent.

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



**CITY OF GREATER BENDIGO**

**BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL**

**GENERAL NOTES & TYPICAL DETAILS**

Survey	H. WHYTOCK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4883.dwg	
Sheet: 2 OF 14	Reference: <b>GB4883</b>	

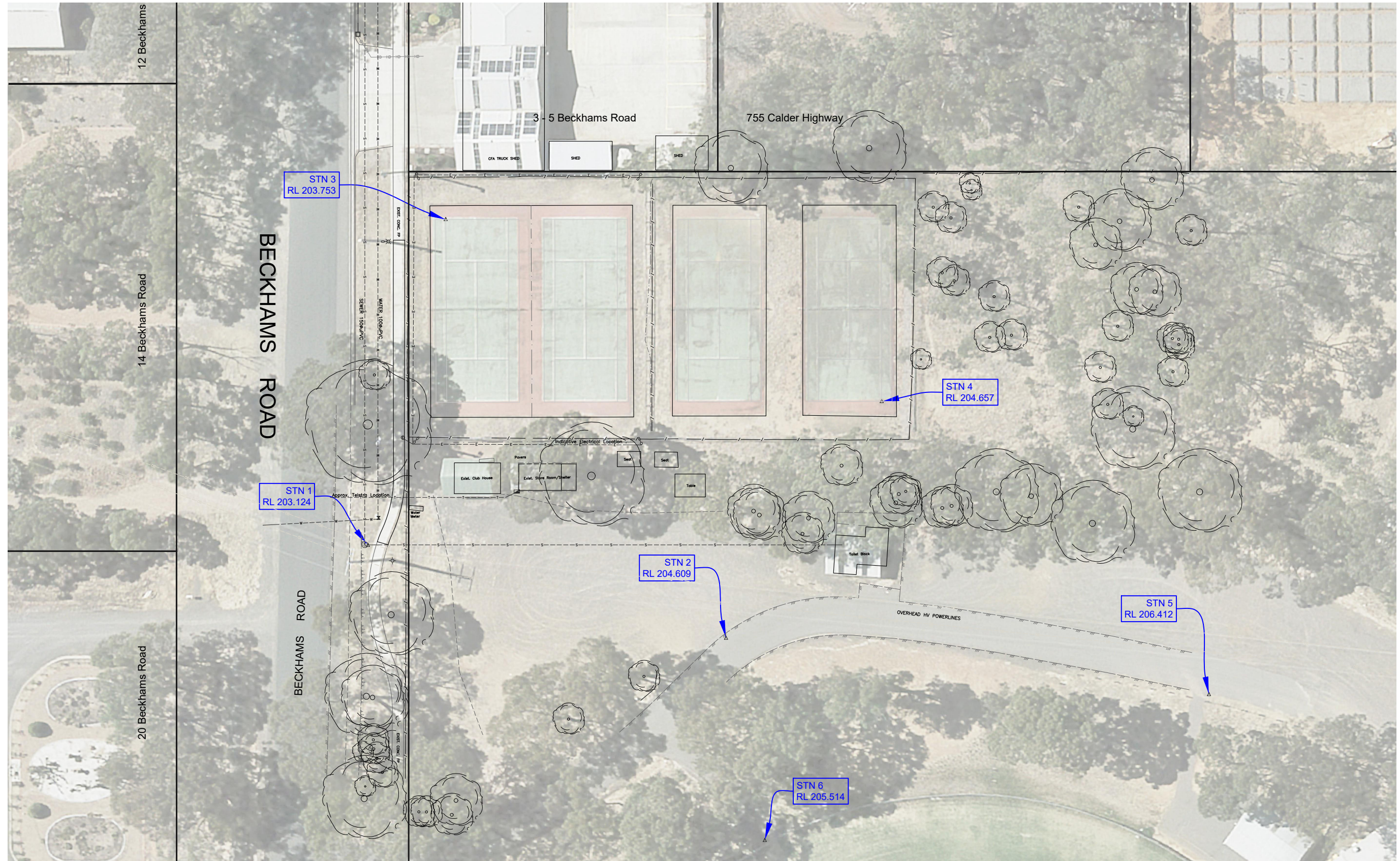
**PRELIMINARY DESIGN  
DRAFT 3**

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER






**IMPORTANT!**  
The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.



STATION DATA				
Point #	Description	Easting	Northing	Level
901	STN 1	250380.316	5929876.666	203.124
902	STN 2	250426.574	5929863.325	204.609
903	STN 3	250391.585	5929918.765	203.753
904	STN 4	250447.671	5929893.542	204.657
905	STN 5	250489.208	5929854.284	206.412
906	STN 6	250430.897	5929836.888	205.514

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



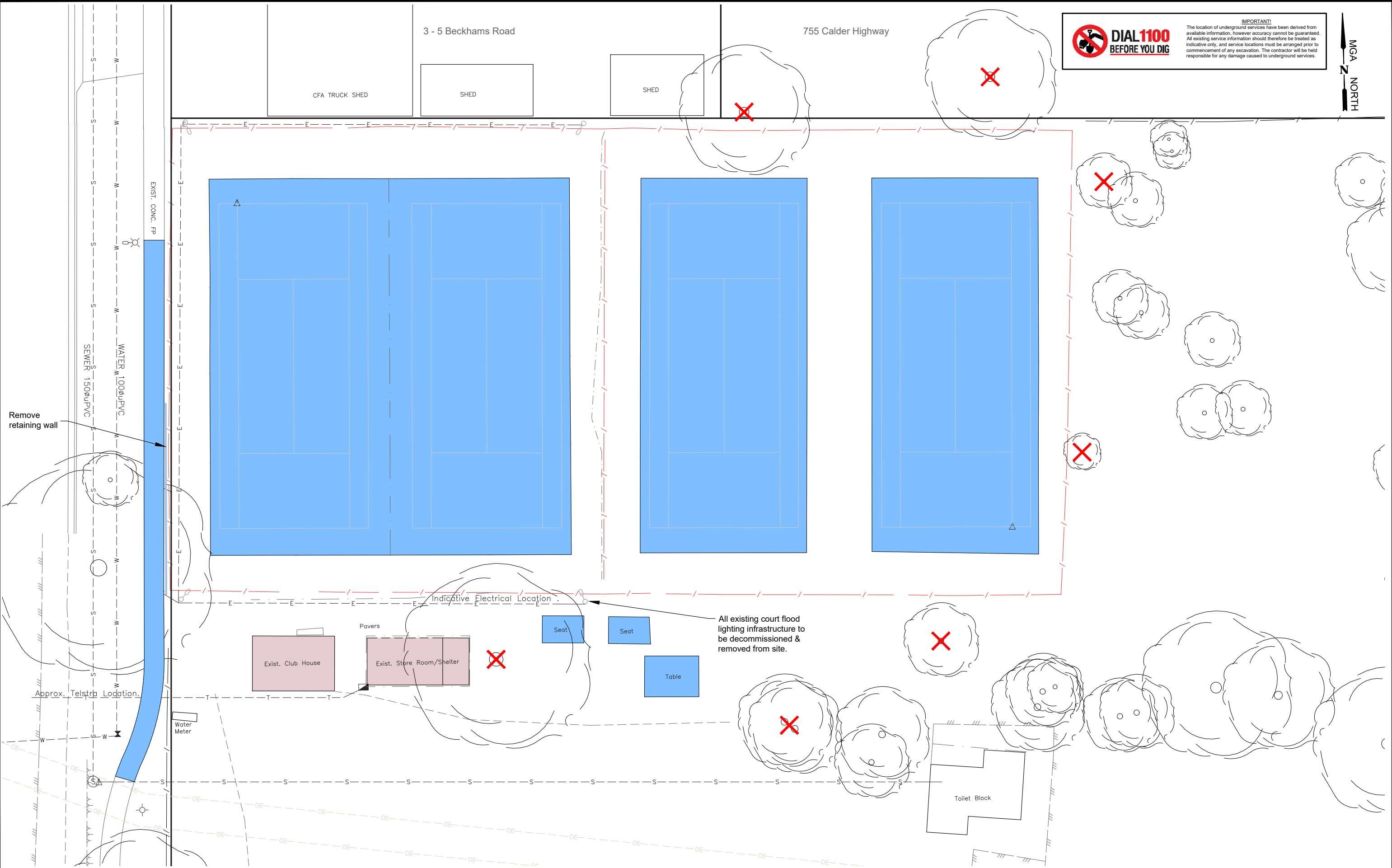
**CITY OF GREATER BENDIGO**  
**BECKHAMS ROAD**  
**MAIDEN GULLY**  
**TENNIS COURT RENEWAL**  
EXISTING CONDITIONS & CONTROL


Survey	H. WHYTOK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-22
Scale: 1:500	Revision: A	
Original sheet size: A3	File: GB4883.dwg	
Sheet: 3 OF 14	Reference: <b>GB4883</b>	

**PRELIMINARY DESIGN**  
**DRAFT 3**

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER








**DIAL 1100**  
BEFORE YOU DIG


**IMPORTANT!**  
The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.


**LEGEND**


 Removal: Concrete

 Removal: Building

 Removal: Fencing


 Removal: Lightpole

 Removal: Tree

 Removal: Pipe

**AMENDMENTS**

Revision	Description	Approved by	Date
-	-	-	-

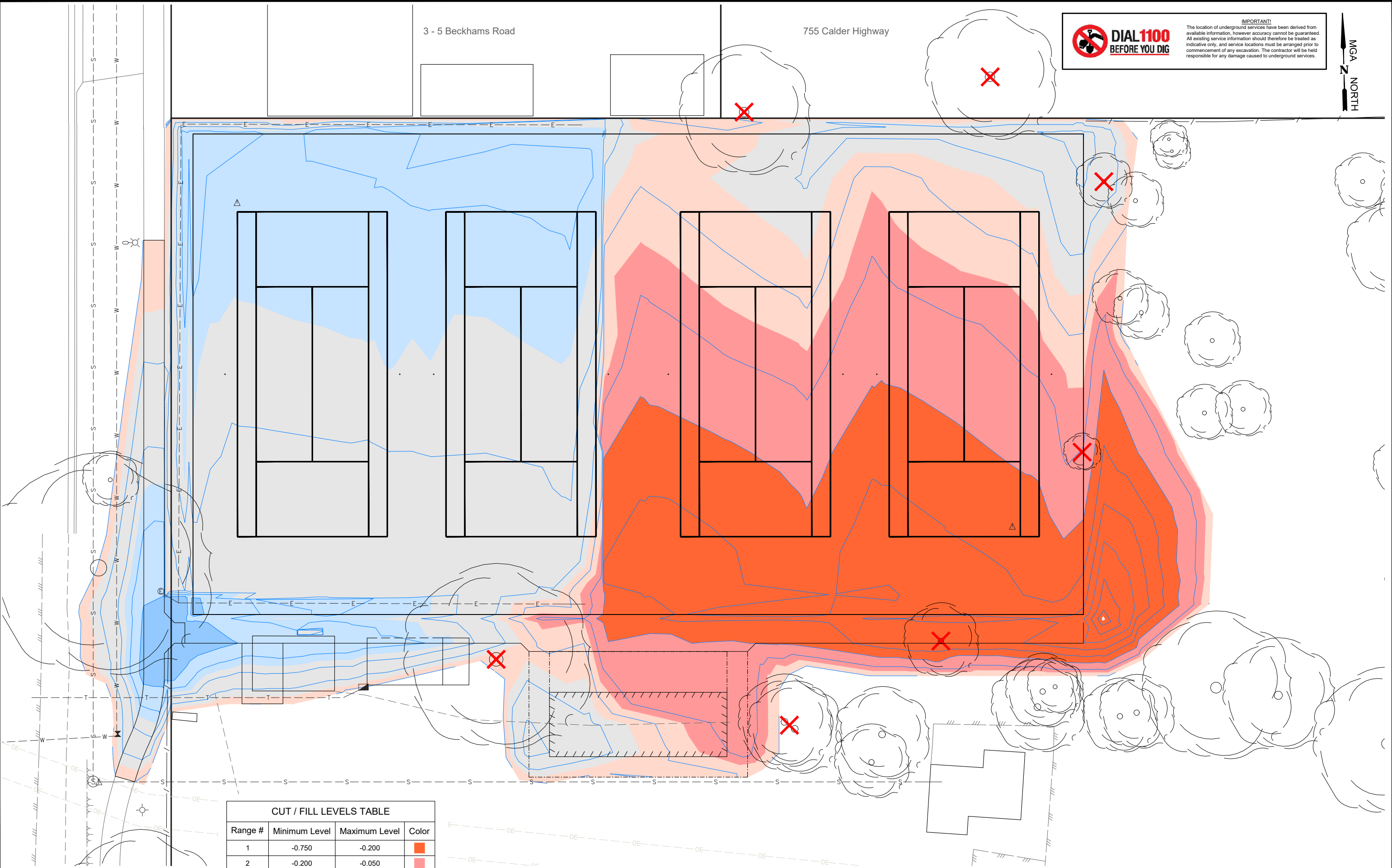



**CITY OF GREATER BENDIGO**  
**BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL**  
DEMOLITION PLAN

Survey	H. WHYTECK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-/22
Scale:	1:250	Revision : A
Original sheet size:	A3	File : GB4883.dwg
Sheet:	4 OF 14	Reference: <b>GB4883</b>

**PRELIMINARY DESIGN  
DRAFT 3**

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER




**DIAL1100**  
BEFORE YOU DIG

**IMPORTANT!**  
The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.

CUT / FILL LEVELS TABLE			
Range #	Minimum Level	Maximum Level	Color
1	-0.750	-0.200	Red
2	-0.200	-0.050	Light Red
3	-0.050	0.050	Light Orange
4	0.050	0.250	Light Grey
5	0.250	0.400	Light Blue
6	0.400	0.550	Medium Blue
7	0.550	0.800	Dark Blue

CUT/FILL VALUES SHOWN ARE TO DESIGN FINISHED LEVELS

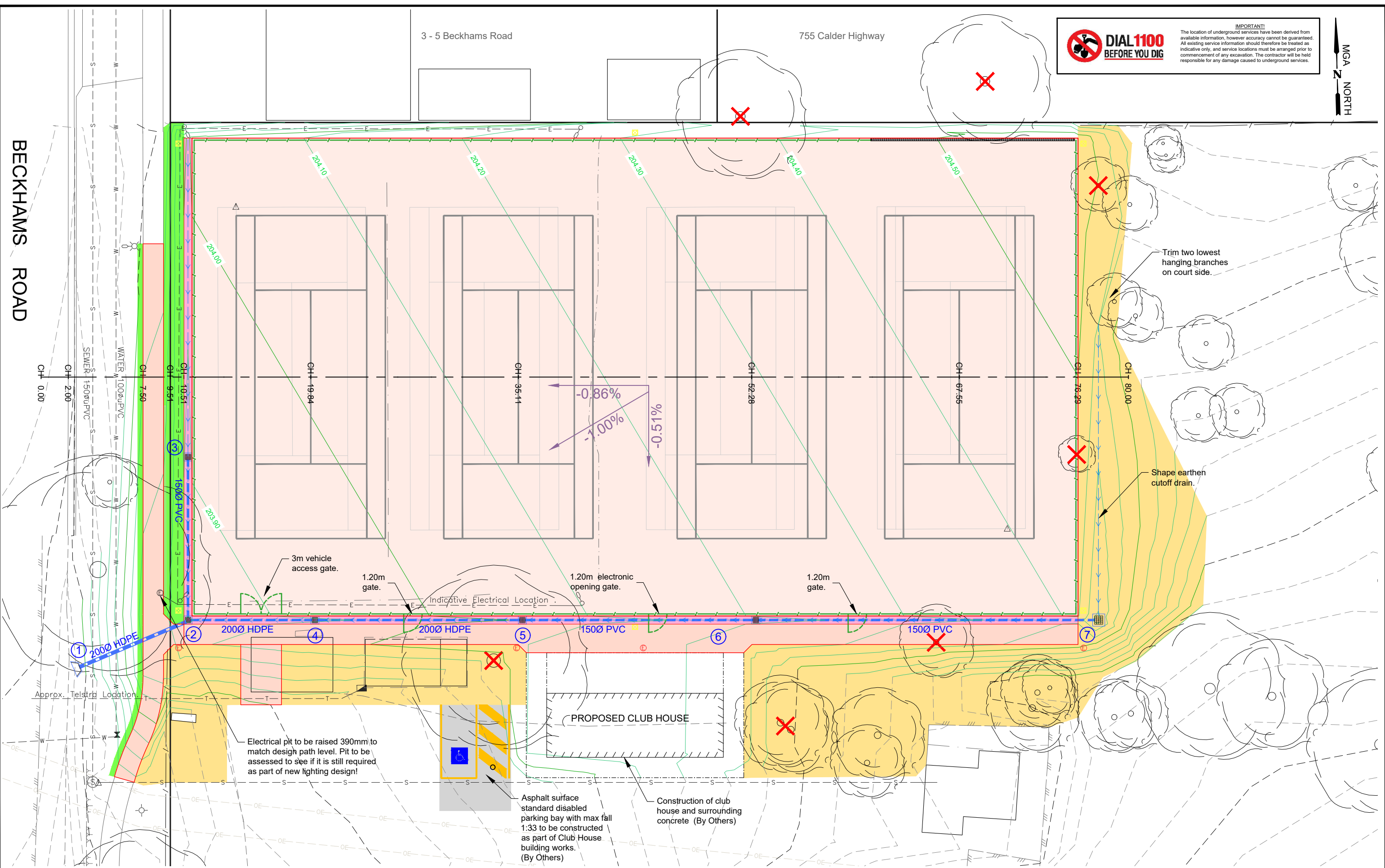
AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

**CITY OF GREATER BENDIGO**  
  
BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL  
  
CUT / FILL PLAN

Survey	H. WHYTECK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-/22
Scale:	1:250	Revision : A
Original sheet size:	A3	File : GB4883.dwg
Sheet:	5 OF 14	Reference: GB4883

**PRELIMINARY DESIGN  
DRAFT 3**

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER



**DIAL 1100**  
**BEFORE YOU DIG**

IMPORTANT!  
The location of underground services have been derived from available information, however accuracy cannot be guaranteed. All existing service information should therefore be treated as indicative only, and service locations must be arranged prior to commencement of any excavation. The contractor will be held responsible for any damage caused to underground services.

MGA  
NORTH

BECKHAMS ROAD

3 - 5 Beckhams Road

755 Calder Highway

**LEGEND**

Concrete Court Slab 150mm depth, 32Mpa Refer sheet 7	Chainmesh Fence 3m height Refer sheet 10	Native Mulch	Design Contour 0.10m interval
Concrete Footpath 1.5m wide, 25Mpa, 1 layer SL72 Refer IDM SD205, SD210	Concrete Invert Drain 600mm width Refer sheet 7		Existing Contour 0.10m interval
Asphalt Paving 40mm depth Type N asphalt over 150mm depth class 1 FCR base.	Rebound wall 3m height Refer structural plans	Tennis Linemarking	Design Pipe

**AMENDMENTS**

Revision	Description	Approved by	Date
-	-	-	-

**CITY OF GREATER BENDIGO**

**BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL**

**DETAIL LAYOUT PLAN**

Survey	H. WHYTECK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/22
Scale: 1:250	Revision: A	
Original sheet size: A3	File: GB4883.dwg	
Sheet: 6 OF 14	Reference: GB4883	

**PRELIMINARY DESIGN  
DRAFT 3**

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER



MGA NORTH

290mm reinforced concrete block rebound wall. Refer to RMG structural plans File REF 220160 for full construction details)

**IMPORTANT**  
For concrete pavement and joint design refer to RMG structural plans FILE REF: 220160 for full construction details.  
Typical details shown on this plan are for indicative purposes only and should be used in conjunction with structural plans.

**CONCRETE COURT PAVEMENT PROFILE TYPICAL DETAIL**  
NOT TO SCALE

**SLAB**  
150mm DEPTH, 32MPa CONCRETE WITH 1 LAYER SL92 MESH, 30mm TOP COVER.

POLYTHENE MOISTURE BARRIER 0.2mm

**BEDDING**  
50MM DEPTH SAND BED COMPACTED TO 98% MMDD.

**SUB-BASE**  
150mm DEPTH CLASS 3 FCR COMPACTED TO 98% MMDD.

**EXISTING SUBGRADE**  
COMPACTED TO A MIN. DENSITY RATIO OF 98% STANDARD. <sup>1, & 2</sup>

<sup>1</sup> PROOF ROLL SUBGRADE TO REVEAL ANY SOFT AREAS. ALL SUCH AREAS THAT DO NOT IMPROVE UNDER FURTHER COMPACTION TO BE REMOVED AND REPLACED WITH APPROVED FILL IN LAYERS NO GREATER THAN 150mm AND COMPACTED TO 98% SMDD.

<sup>2</sup> SUBGRADE PREPARATION, FILL PLACEMENT & COMPACTION SHALL BE SUPERVISED BY A GEOTECHNICAL ENGINEER. TESTING SHALL BE IN ACCORDANCE WITH TYPE 1 EARTHWORKS AS PER TABLE 8.1 OF AS3798.

**CONCRETE COURT SAW CUT JOINT TYPICAL DETAIL**  
NOT TO SCALE

SAWCUT 40mm DEEP WITHIN 24HRS OF CONCRETE POUR. REQ TO TERMINATE 50mm SHORT OF SAWCUT. FILL SAWCUT WITH POLYURETHANE SEALANT 2mm BELOW SURFACE

6MM DANLEY PLATE DOWEL CRADLE RYNOBAR AT 450mm MAX. CTS. INSTALLED TO MANUFACTURERS SPECS.

**CONCRETE COURT CONSTRUCTION JOINT TYPICAL DETAIL**  
NOT TO SCALE

FORM 10mm WIDE x 30mm DEEP REBATE. PROVIDE BACKING ROD FILL REBATE WITH POLYURETHANE SEALANT 2mm BELOW SURFACE & MIN. 10mm DEEP.

6MM DANLEY DIAMOND DOWEL CRADLE AND SLEEVE PLACED AT 450mm CTS. INSTALLED TO MANUFACTURERS SPECS.

**CONCRETE COURT INVERT DRAIN EDGE TYPICAL DETAIL**  
NOT TO SCALE

FORM 10mm WIDE x 30mm DEEP REBATE. PROVIDE BACKING ROD FILL REBATE WITH POLYURETHANE SEALANT 2mm BELOW SURFACE & MIN. 10mm DEEP.

32MPa CONCRETE M2 KERB PLACED AT 300mm CTS.

**BEDDING**  
50MM DEPTH SAND BED COMPACTED TO 98% MMDD.

**SUB-BASE**  
150mm DEPTH CLASS 3 FCR COMPACTED TO 98% MMDD.

"Typical detail to be followed only where Invert Drain Edge is being poured separate to court slab"

**NET POST HOLES**

- 600mm deep, 500x500mm wide hole shall be excavated under design slab.
- Prior to pouring design slab, place pvc pipe net post sleeve in footing hole then backfill with 25MPa concrete up to subgrade of design slab.
- Ensure sleeve is vertical and protrudes footing to match design slab finished level.
- Place membrane and reinforcement for design slab
- Pour design slab around post sleeve, ensuring top of sleeve matches design slab level (+/- 1mm tolerance)
- See sheet 2 for details around net posts

**LEGEND**

--- Construction Joint --- Sawcut Joint

**AMENDMENTS**

Revision	Description	Approved by	Date
-	-	-	-

**CITY OF GREATER BENDIGO**

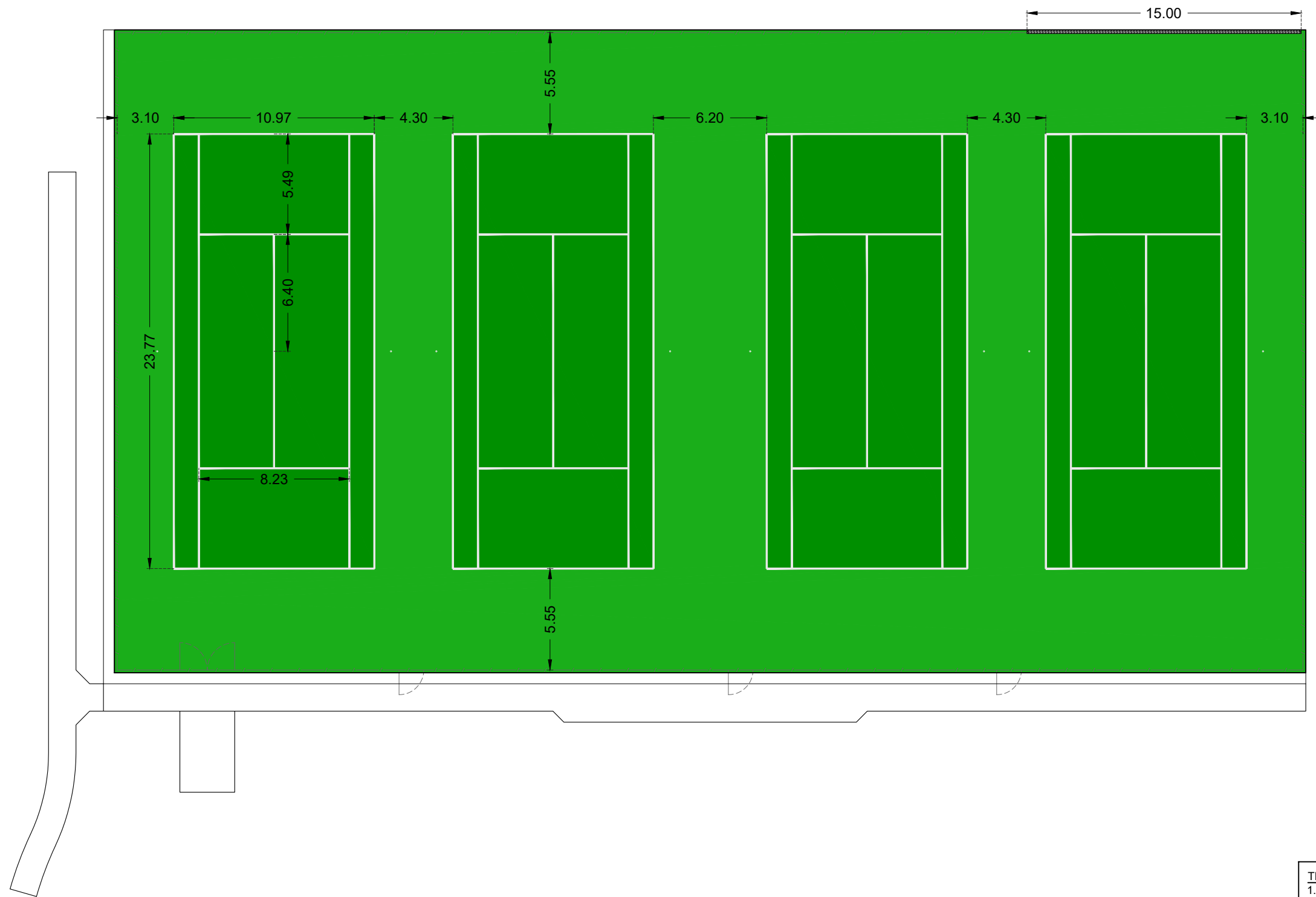


BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL  
CONCRETE COURT SLAB PLAN

Survey	H. WHYTECK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-/22
Scale: 1:250	Revision: A	
Original sheet size: A3	File: GB4883.dwg	
Sheet: 7 OF 14	Reference: GB4883	


**PRELIMINARY DESIGN DRAFT 3**


Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER



**TENNIS COURT NOTES:**  
1. Dimensions shown are to outside edge of lines.  
2. Synthetic surface details (TBA)  
- Dark Green Colour name: TBA  
- Ligth Green Colour name: TBA

LEGEND


 Synthetic surface  
(Colour TBA)

 Synthetic surface  
(Colour TBA)

 Standard Tennis  
white line marking  
(50mm thick)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO



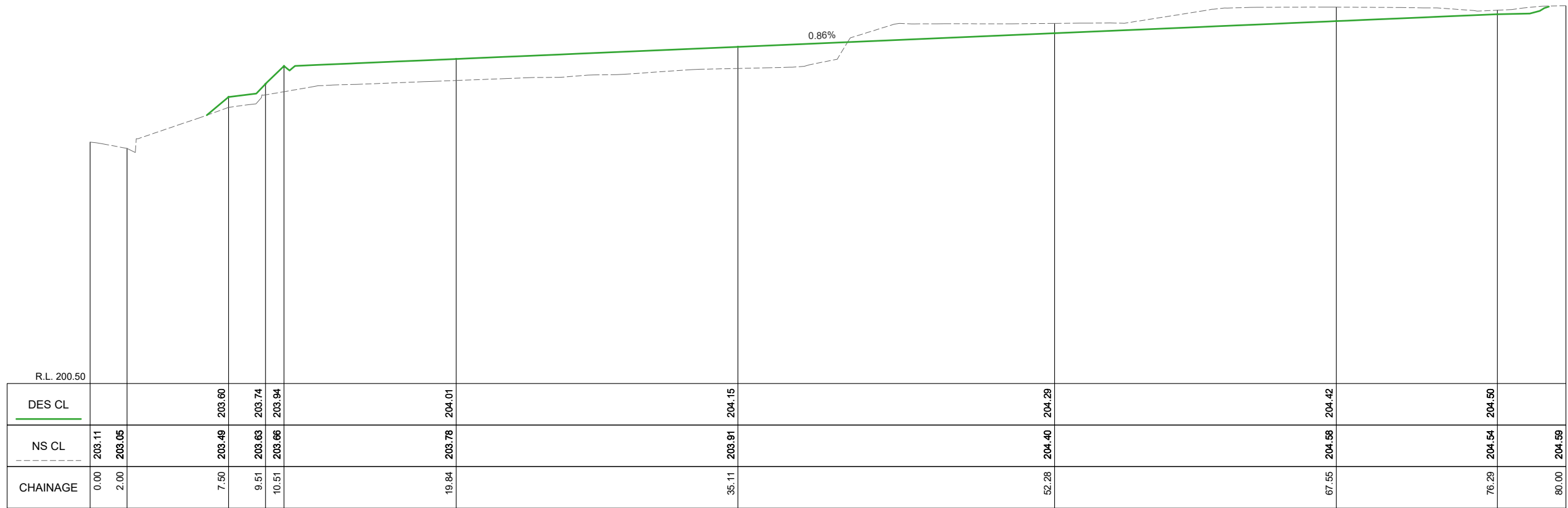
BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL  
LINEMARKING & COURT FINISHES PLAN

Survey	H. WHYTOK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-22
Scale: 1:250	Revision : A	
Original sheet size: A3	File : GB4883.dwg	
Sheet: 8 OF 14	Reference: GB4883	


PRELIMINARY DESIGN  
DRAFT 3

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER

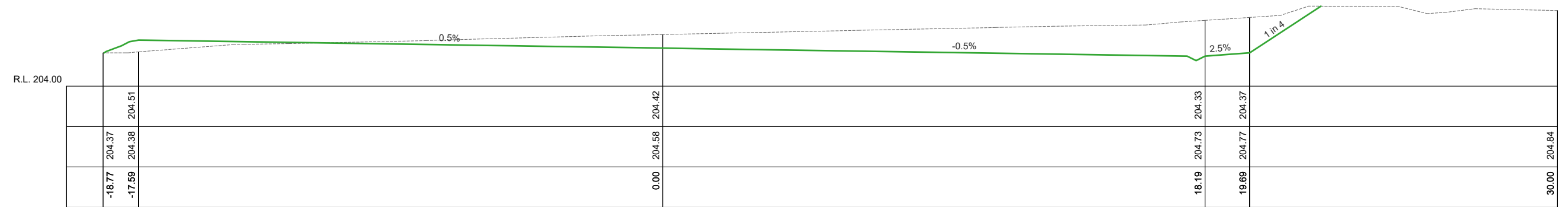




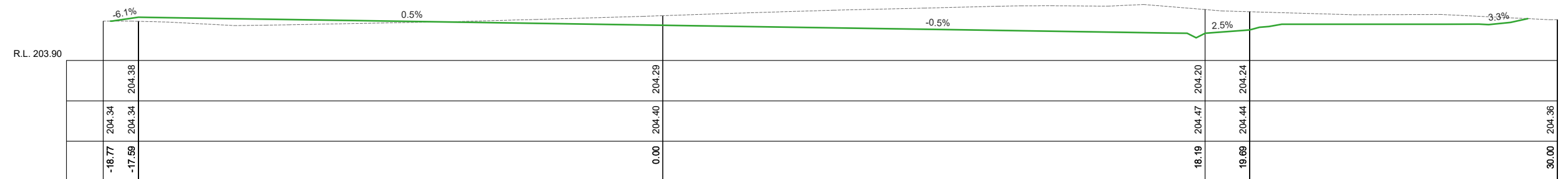
CL LONGITUDINAL SECTION CH 0.000 To 79.998  
SCALES: H 1:250 V 1:50 (A3)

AMENDMENTS					CITY OF GREATER BENDIGO BECKHAMS ROAD MAIDEN GULLY TENNIS COURT RENEWAL COURT LONGITUDINAL SECTION		Survey		H. WHYTOCK		FEB. 2022	
Revision	Description	Approved by	Date				Design	L. OLIVER	MAR. 2022			
-	-	-	-				Checked	A. SMITH	5/8/22			
							Approved by	N. SARTORI	-/22			
							Scale: -	Revision : A				
							Original sheet size: A3	File : GB4883.dwg				
							Sheet: 9 OF 14	Reference: GB4883				
									Plot Date: 7/10/2022 Plotted By: LEIGH OLIVER			

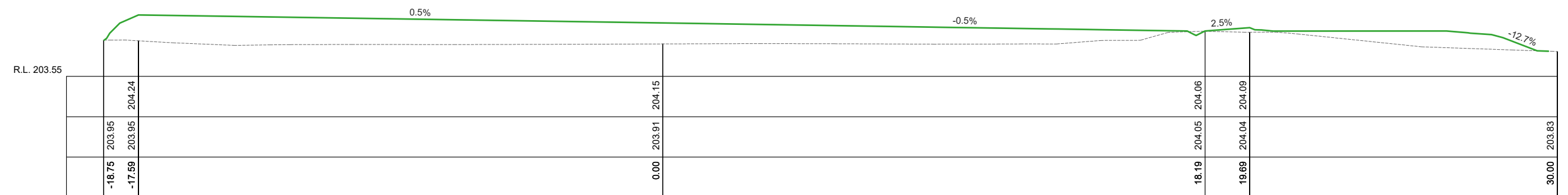
PRELIMINARY DESIGN  
DRAFT 3



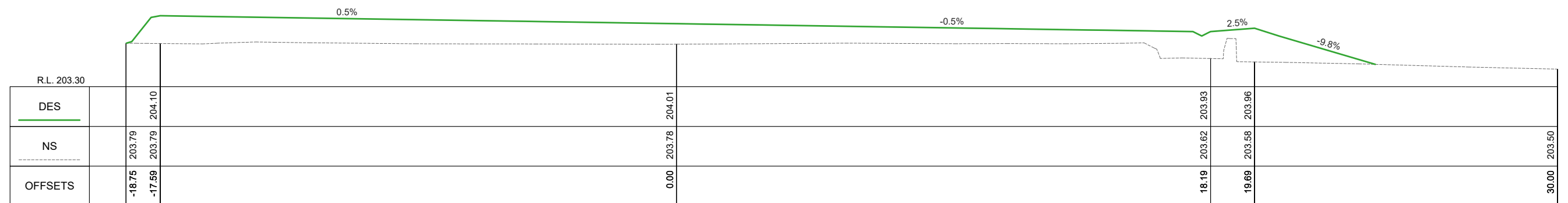
Ch 67.55



Ch 52.28




Ch 35.11



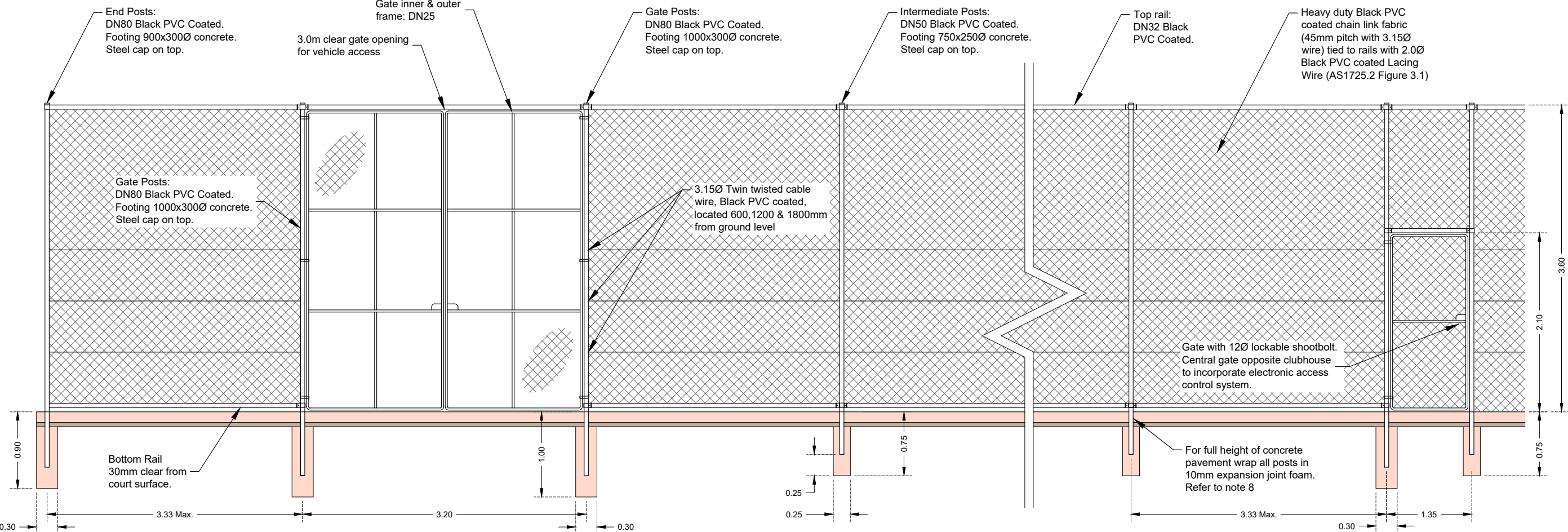
Ch 19.84

CL CROSS SECTIONS  
SCALES: H 1:150 V 1:50 (A3)

AMENDMENTS				CITY OF GREATER BENDIGO		Survey		H. WHYTOCK	FEB. 2022	<div>PRELIMINARY DESIGN DRAFT 3</div>
Revision	Description	Approved by	Date			Design		L. OLIVER	MAR. 2022	
-	-	-	-	Checked		A. SMITH	5/8/22			
				Approved by		N. SARTORI	-/-22			
				Scale: -		Revision : A				
				Original sheet size: A3		File : GB4883.dwg				
				Sheet:		Reference:	GB4883		Plot Date: 7/10/2022	
				10 OF 14					Plotted By: LEIGH OLIVER	
					BECKHAMS ROAD MAIDEN GULLY TENNIS COURT RENEWAL					
					COURT CROSS SECTIONS					




All fence components to comply with AS1725.2



- NOTES:**
1. Installation of fence shall be in accordance to A.S.1725.2-2010 tennis court fencing - commercial.
  2. No shade cloth, signage, wind break materials or creepers shall be attached to fence.
  3. Fence height from tennis court surface shall be 3600mm.
  4. Fence construction shall be Type A fencing design with top and bottom pipe rail for higher level of durability and service life, shall be constructed with top and bottom pipe rails clamped to all posts with galvanised split clamp-on fittings and 3 rows of cable wire to support the 3600mm chain link fabric, set at 600mm, 1200mm & 1800 from ground level.
  5. All pipe posts, rails throughout the fence installations shall be class 1 (medium quality) as per A.S.1074-1989.
  6. Heavy duty: 3.15mm wire x 45mm pitch chainwire coating for chain link fabric shall be black fuse-bonded polymer coating.
  7. At each post penetration through a concrete edge strip the post shall be wrapped with 10mm polyethylene foam expansion joint filler for the full depth of the edge strip and the surface of the joint sealed with polyurethane sealant at the surface of the edge strip, either side of the post a tooled joint shall be installed.
  8. Concrete for post footings shall be at least 20MPa in compressive strength and concrete shall have been prepared using cement complying with A.S.3972.
  9. Black powder coat pipe and fitting shall comply with A.S.4506. powder coating application over galvanised steel tubes and fittings shall be a thermosetting polyester resin system, applied electro-statically and oven cured. dry film thickness (dft) shall be 60-100 µm.

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

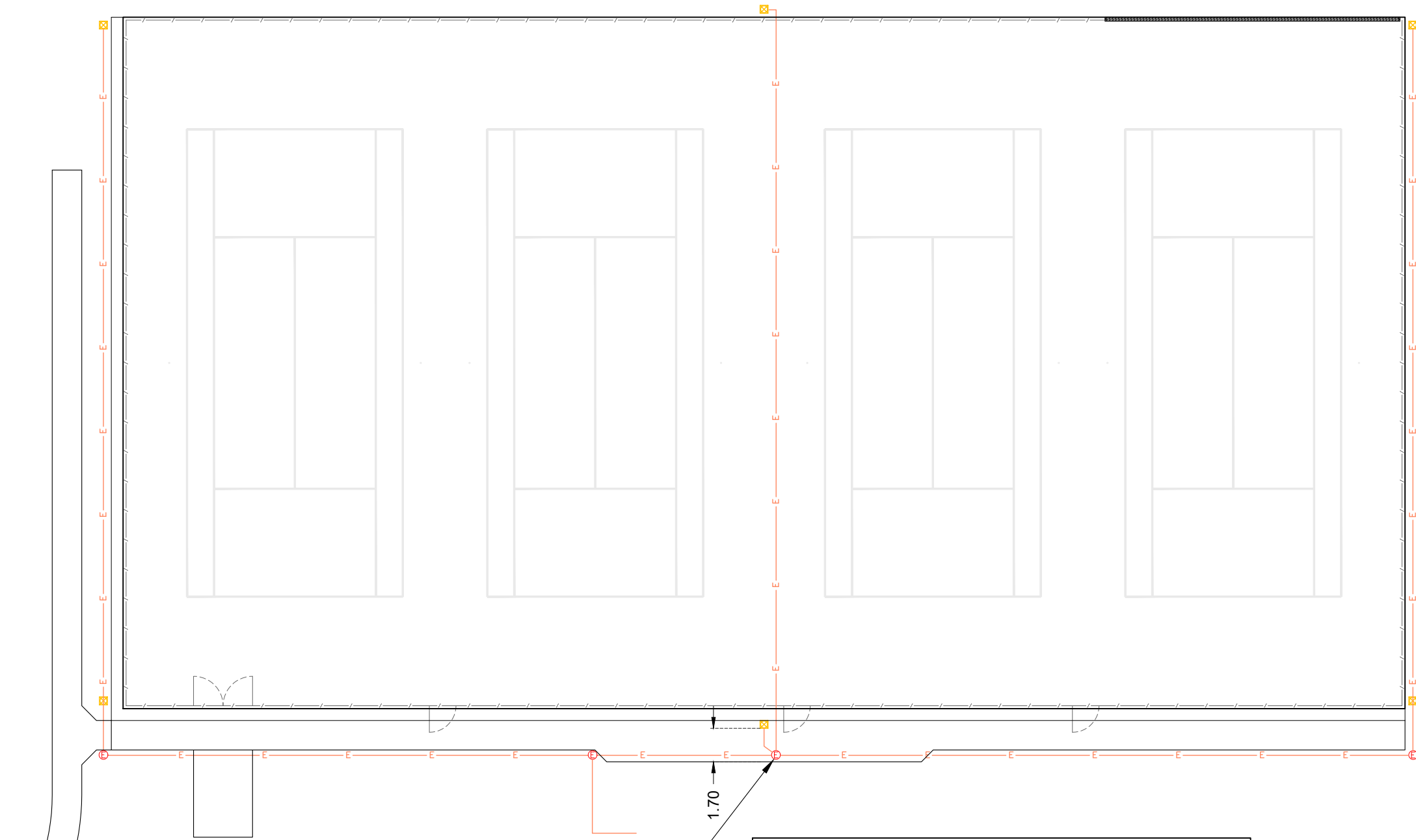
BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL

FENCING DETAILS

Survey	H. WHYTECK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4883.dwg	
Sheet: 11 OF 14	Reference: GB4883	

PRELIMINARY DESIGN  
DRAFT 3

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER




Proposed location for New tennis court floodlighting DB. Exact location to be determined onsite or once clubhouse power design has been confirmed.

Electrical pit cover to match design finished levels. Other pits not located within concrete to be buried as per detail on lighting plans.

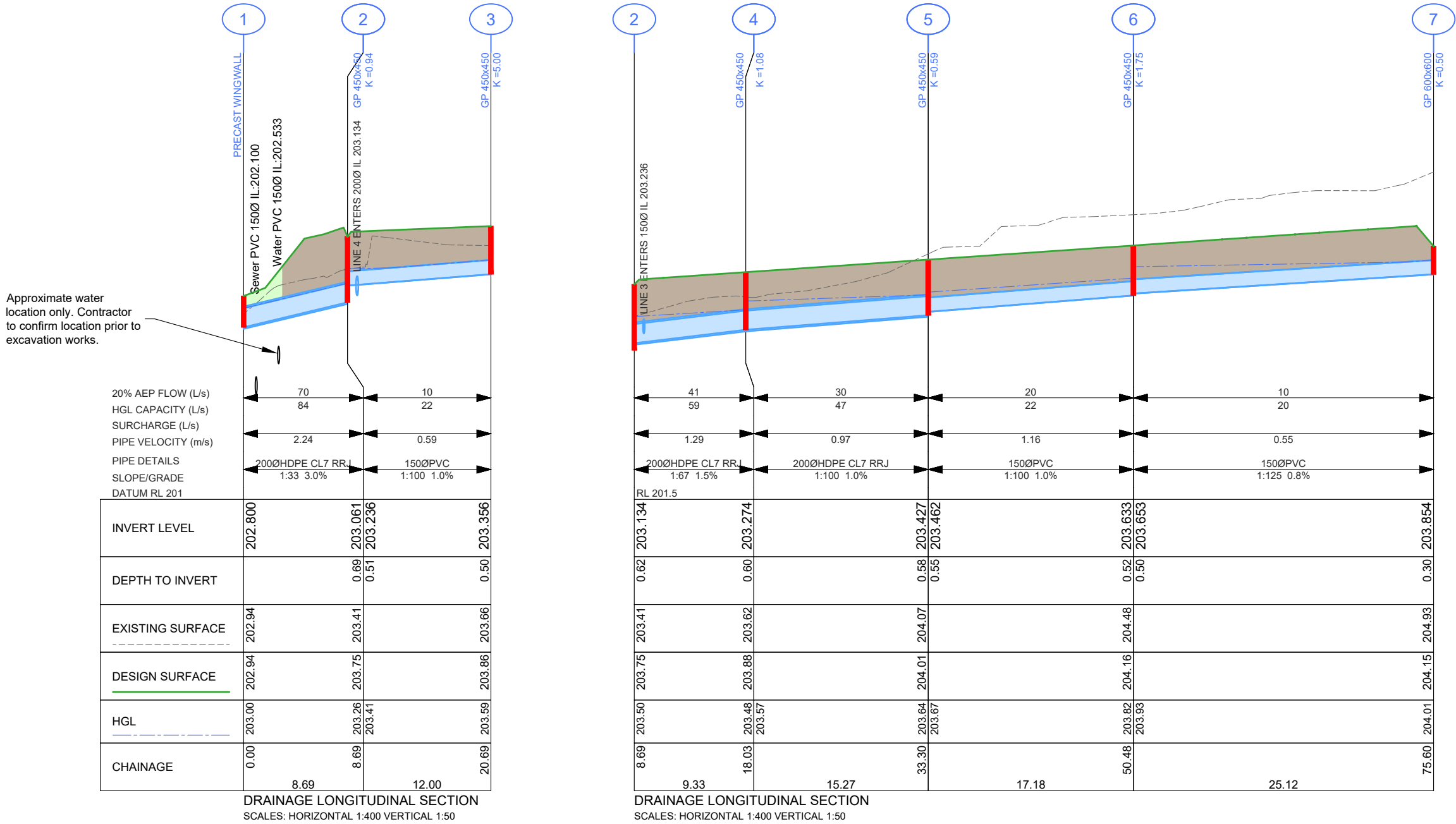
- NOTES:**
- 1. Suitable electrical pit locations to be confirmed onsite by Contractor & CoGB Superintendent.
  - 2. Existing lighting poles to be removed from site.
  - 3. Redundant electrical wiring & conduits to be removed from site.
  - 4. Light poles, outreach arms and shades to be black powder coated by supplier to match court fencing.

**IMPORTANT**  
For complete lighting design refer to REXEL Floodlighting Upgrade Electrical Services plan  
Drawing No: 22-615

<b>LEGEND</b>  —E— Lighting - Conduit Location  ⊠ Lighting - Post Location  Ⓢ Lighting - Electrical Pit Location (Pit locations to be confirmed onsite)	<b>AMENDMENTS</b>					<b>CITY OF GREATER BENDIGO</b>  BECKHAMS ROAD MAIDEN GULLY TENNIS COURT RENEWAL  LIGHTING LAYOUT PLAN	Survey	H. WHYTOCK	FEB. 2022	<div><b>PRELIMINARY DESIGN DRAFT 3</b></div> Plot Date: 7/10/2022 Plotted By: LEIGH OLIVER
	Revision	Description	Approved by	Date			Design	L. OLIVER	MAR. 2022	
-	-	-	-	Checked	A. SMITH	5/8/22				
				Approved by	N. SARTORI	-/-/22				
				Scale: -	Revision: A					
				Original sheet size: A3	File: GB4883.dwg					
				Sheet: 12 OF 14	Reference: GB4883					



PIT SCHEDULE										
Pit No.	Pit Type	Standard Drawing	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level
			(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)
1	Endwall	PRECAST ENDWALL	-	-			200	202.800	0.140	202.940
2	Grated Pit	SD590A-D-L-U (Class C - V Shape Grate)	450	450	200	203.061	150	203.236	0.689	203.750
							200	203.134		
3	Grated Pit	SD590A-D-L-U (Class C - V Shape Grate)	450	450	150	203.356			0.504	203.860
4	Grated Pit	SD590A-D-L-U (Class C - V Shape Grate)	450	450	200	203.274	200	203.274	0.604	203.878
5	Grated Pit	SD590A-D-L-U (Class C - V Shape Grate)	450	450	200	203.427	150	203.462	0.582	204.009
6	Grated Pit	SD590A-D-L-U (Class C - V Shape Grate)	450	450	150	203.633	150	203.653	0.523	204.156
7	Grated Pit	SD590A-D-L-U (Class C Flat Grate)	600	600	150	203.854			0.296	204.150



EXISTING PIPE TO REMAIN

DESIGN PIPE / PIT or ENDWALL

CoGB SD390 TRENCH BACKFILL (BEHIND KERB)

CoGB SD391 TRENCH BACKFILL (UNDER NEW ROAD)

CoGB SD392 TRENCH BACKFILL (UNDER EXISTING ROAD)

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-

CITY OF GREATER BENDIGO

BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL

DRAINAGE LONGITUDINAL SECTION

Survey	H. WHYTOCK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-/22
Scale:	AS SHOWN	Revision : A
Original sheet size:	A3	File : GB4883.dwg
Sheet:	13 OF 14	Reference: GB4883

PRELIMINARY DESIGN  
DRAFT 3

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER

AMENDMENTS			
Revision	Description	Approved by	Date
-	-	-	-



CITY OF GREATER BENDIGO

BECKHAMS ROAD  
MAIDEN GULLY  
TENNIS COURT RENEWAL

X

Survey	H. WHYTOCK	FEB. 2022
Design	L. OLIVER	MAR. 2022
Checked	A. SMITH	5/8/22
Approved by	N. SARTORI	-/-/22
Scale: -	Revision : A	
Original sheet size: A3	File : GB4883.dwg	
Sheet:	Reference:	
X OF 14	GB4883	

PRELIMINARY DESIGN  
DRAFT 3

Plot Date: 7/10/2022  
Plotted By: LEIGH OLIVER