

FERSFIELD ROAD GISBORNE RECONSTRUCTION STAGE 1 CH792.22 TO CH 1380.48



LOCALITY PLAN
SCALE: NTS
MELWAYS: 656 EG

Schedule 8: Drawing Schedule

Drawing No.	Street No.	Title
13651-C1	1	LOCALITY PLAN, SCHEDULES & NOTES
13651-C2	2	EXISTING CONDITIONS PLAN
13651-C3	3	TYPICAL ROAD, KERB & PAVEMENT DETAIL
13651-C5	4	STAGE 1 DESIGN PLAN
13651-C14	5	MORRISON RD/FERSFIELD RD INT DESIGN
13651-C15	6	SAMSOM & LAUREN CT/FERSFIELD RD INT DESIGN
13651-C16	7	CARNegie CR / FERSFIELD RD INT DESIGN
13651-C17	8	MONTAVVUE CT & THOMPSON CL / FERSFIELD RD INT DESIGN
13651-C18	9	BLOOMFIELD ROAD / FERSFIELD ROAD INTERSECTION DESIGN
13651-C23	10	LONGITUDINAL SECTION 1/3
13651-C24	11	LONGITUDINAL SECTION 2/3
13651-C25	12	LONGITUDINAL SECTION 3/3
13651-C40	13	CROSS SECTIONS 1/10
13651-C41	14	CROSS SECTIONS 2/10
13651-C42	15	CROSS SECTIONS 3/10
13651-C43	16	CROSS SECTIONS 4/10
13651-C44	17	CROSS SECTIONS 5/10
13651-C45	18	CROSS SECTIONS 6/10
13651-C46	19	CROSS SECTIONS 7/10
13651-C47	20	CROSS SECTIONS 8/10
13651-C48	21	CROSS SECTIONS 9/10
13651-C49	22	CROSS SECTIONS 10/10
13651-C20	23	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE
13651-C70	24	PAVEMENT LINE MARKING PLAN
13651-C71	25	DETAILED PAVEMENT LINE MARKING PLAN

STANDARD NOTES FOR SUBDIVISIONS:

- All works are to be carried out in accordance with the *Macedon Ranges Shire Councils Engineering policies, Standard Drawings* (as revised) and specifications to the satisfaction of Councils Supervising Officer and/or their representative.
- All coordinates are to top of Australian Height Datum (AHD).
- As shown on Plans and to be replaced as per conditions of the planning permit prior to approval of the Construction Plans.
- Council to be notified seven (7) clear days prior to commencement of works with a Pre-commencement Meeting being held between Council, the Consultant and the Contractor.
- A Site Management Plan is to be submitted prior to the Pre-commencement Meeting.
- Where Works are in the vicinity of existing works, these services are to be located and exposed/proved prior to commencement of works and the relevant service authorities and/or their agents are to be notified seven (7) clear days prior to the commencement of works.
- The Contractor is to obtain the necessary 'Asset Protection Permit' prior to undertaking any works within a previously constructed roadway or easement.
- The Contractor is to obtain the necessary 'Building Permit' prior to constructing Retaining Walls / Structures over 1.0m in height.
- Where lighting design, where proposed, is to be provided and approved prior to commencement of works.
- Prior to commencement of works, the contractor must ensure that all matters relating to the Occupational Health and Safety Act 2004 and OHS Regulations 2007 have been and will be complied with.
- Prior to the commencement of works 'The disposal site' for spoil removal from works site and truck route 'as to be submitted to and approved by Councils Supervising Officer and/or their representative in writing.
- Prior to commencement of construction works on site, the contractor must comply with the recommendations of the Environment Protection Authority Publication 'Construction Techniques for Sediment Pollution Control' as revised. This applies to appropriate Erosion & Siltation control measures to be maintained during the construction and maintenance period of the works.
- No Tree or Vegetation is to be disturbed or removed without approval from Council and clearly marked on Landscape and/or Construction Plans. No Trees, Vegetation or other materials are to be removed.
- Trees and Vegetation to be retained are to be protected by a tree protection zone (TPZ) at all times during construction. The TPZ must be in accordance with Planning conditions or approved Arborist Report and/or Vegetation Management Plan and be clearly demarcated on approved Plans.
- Under no circumstances shall vehicles, site sheds, plant and equipment be stored or placed within fenced zone.
- Prior to the commencement of works, the Contractor must provide the following information:
 - N.A.T.A. approved test results for the CR that is to be used.
 - Should the source of Quarry Material CR change during course of works then new test results must be provided.
 - Prior to commencing work on trenches in excess of 1.5m deep the proposed must comply with relevant occupational health and safety requirements.
 - Call 1800 136 088 toll free.
 - The Contractor must maintain all necessary Traffic Control Safety measures during the works.
 - All Service Conduits Trenches within the road reserve must be backfilled to a dry density not less than 95% of the maximum dry density value determined by the modified compaction test in accordance with AS 1289.5, and as specified below.
 - Service Trenches under Road Pavement, Footpath or Vehicular Crossings backfilled with 20mm 3% cement treated Class 3 crushed rock compacted.
 - Service Trenches adjacent to road pavement or concrete structures backfilled with Class 3 crushed rock compacted.
 - All Stormwater Drains are to be reinforced concrete (RC) Class 2 rubber ring jointed (RRJ) pipes unless noted otherwise.

- All RC pipes up to and including 750mm dia. are to be RRJ.
- Pipes larger than 750mm dia. to be interlocking flange joints external bedded.
- All 150mm dia. Stormwater pipes are to be heavy duty sewer grade PVC unless otherwise approved.
- Subsoil drainage: 100mm dia. Agricultural pipe drains to be placed behind all Keph on 20mm Standard Drawings.
- 20mm below subgrade and at grade and in accordance with Councils Standard Drawings.
- Minimum cover to divert of drainage pipes shall be 300mm in easements and 500mm in road reserves. Minimum cover (the depth of drainage pipes in road reserves must be greater than the design depth of subsoil drainage, refer to 'Subsoil drainage' note (2)).
- 100mm dia. House Drain Connections to be laid at an offset of 1.0m from the low side of the boundary as standard. Offsets greater than standard are to be dimensioned on the construction Plans.
- House Drain Connections up to 150mm dia. to be via a manufactured junction piece. Pipes are to be heavy duty sewer grade PVC and backfilled with FCR to 150mm above top of pipe.
- All connectors to Council assets are to be as per Councils Standard Drawings.
- Fill rates are to be stepped to topsoil, fill and then topsoil replaced to obtain final fill levels as shown on approved construction Plans. All filling to be clean dry unconsolidated and tested in accordance with AS 3788:2007 'Level 1' suspension unless specified otherwise. Any standard fill encountered must be promptly removed and replaced in accordance with the above requirements.
- The Contractor is responsible for ensuring that all imported fill material including additional topsoil satisfies the description for clean fill material in EPA Bulletin Publication No. 448, as revised. The Contractor if requested is to provide soil test certificates to Councils Supervising Officer and/or their representative.
- Blasting generally is not approved as standard, however blasting may be required as a last resort depending on ground conditions. Council is to be notified in writing if any blasting is found to be necessary. Residents and Property likely to be affected by blasting and all service authorities shall be notified in writing prior to blasting work commencing. Notification letter is to include blasting procedure, likely timings and include Contractor and Consultant contact names and phone numbers.
- Works to be in accordance with AS 2187.2, and restricted to between 9.0am and 3.30pm and not to occur on public holidays.
- Earth Batters shall be 1 in 6 minimum, evenly graded, topped and seeded unless otherwise specified.
- Road pavements to be a minimum depth of 300mm including surfacing for residential streets only. Pavement depth specified is a minimum depth and may be varied by Councils Supervising Officer and/or their representative.
- Soft spots must be excavated to a proof rolled base and backfilled with approved material in accordance with AS 1289.5.
- Subbase pavement component to be 100mm wider than the outside of Kerb or Edging strip widths.
- Kerb types shall be as specified in accordance with the Council Standard Drawings. Kerb transition from kerb to road surface types are to be over 3.0m if it cannot be achieved at a plan ramp crossing of vehicle crossover.
- Vehicle Crossovers & Crossroads.
 - Residential Vehicle Crossings to be constructed in accordance with Councils Standard Drawings. Maximum number of crossings to a residential property as 2, providing crossing width is maximum 3.5m each and a separation of 8m is achieved.
 - Rural Vehicle Crossings to be constructed in accordance with Councils Standard Drawings. Unless an approved high point all rural crossings are to include a pipe culvert.
 - Corner properties will require crossing clearances from intersections and pedestrian pram ramp crossings as per Australian Standards to the satisfaction of Council.
- All Footpaths are to be a minimum of 1.5m wide and in accordance with Councils Standard Drawings. Footpaths are to be 50mm offset from the boundaries, unless noted otherwise.
- All ranging crossing to be in accordance with Councils Standard Drawings.
- All fill shall develop a minimum compressive strength of 2.5 MPa at 28 days, unless otherwise specified.

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

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- Exposed Aggregate Concrete works are non-standard pavement works, proposals must be approved in writing prior to commencement of works.
- All Traffic Control Measures, Signs and Line marking must be in accordance with AS 1742.
- All Signs erected to be Class 1 High Intensity Type complying with the requirements of AS 1743.
- All Signs to be in accordance with Councils requirements.
- All Signs to be in accordance with Councils requirements.
- All Signs to be in accordance with Councils requirements.
- 100mm layer of topsoil as specified, free from clay and stone, evenly graded and seeded to the satisfaction of Councils Supervising Officer and/or their representative.
- Grades 1 in 6 and steeper require a hydromulch and seed mix.
- All Fire Hydrants are to be marked in accordance with C.F.A. and M.F.B. requirements. Markings to be via Elite raised reflective pavement marker and a marker post.
- Open Space and Drainage Reserves to be evenly graded, seeded and free draining to the satisfaction of Councils Supervising Officer and/or their representative.
- Removal of topsoil from reserves during the works must be held on-site and reinstated as specified.
- Design information to include: Potable Water supply in underground pit configuration, boilers, heating, lighting, spanning of Potable Water equipment and BBO's etc, where required by the permit.
- The reinstatement of Existing Assets affected by the works.
- The removal of all redundant Assets, Building Vests, Rubbish and Spoil from the site.
- Non trafficable measures of areas for grass establishment to the satisfaction of Councils Supervising Officer and/or their representative.
- As-Constructed Data including variations during construction works is to be provided prior to the issue of Statement of Compliance.
- Drawings are to be in A1 and A3 hardcopy for print in AutoCAD (2010) and Acrobat PDF formats, unless otherwise agreed in writing.
- HOLD POINT inspections are to be arranged for approval by Councils Supervising Officer and/or their representative. The Consultant and/or Contractor to be present at Hold Points.
- Pre-commencement Works meeting.
- From 10th each day of works commencing.
- Stormwater drainage pipes and pits, including subsoil AG drains.
- Property/House connections.
- Road Subgrade proof-roll prior to placement of sub-base.
- Road Sub-base proof-roll prior to placement of base course.
- Road Base Course proof-roll prior to sealing.
- Prior to placement of concrete for Kerb and channel, footpaths and vehicle crossings.
- Practical Completion Inspection (allows commencement of Defects Liability Period).
- End of Defects Liability Inspection.

Following inspections may also be carried out by Councils Supervising Officer and/or their representative:

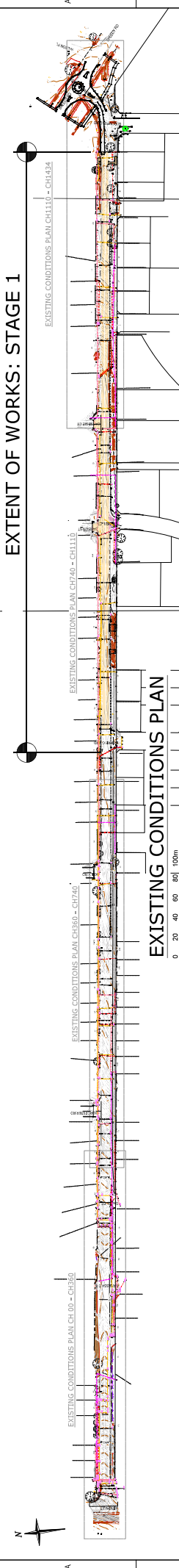
- Inspection of traffic control safety measures in accordance with the Site Management Plans.
- Inspection of works in accordance with enclosed Landscape Plans.
- Any other inspections as determined by the Council.

additional notes:

- Provide compaction tests for all layers (sub-grade 98% MMD, sub-base 98% and base 100% MMD).
- All nature strips and swales to be shaped and consist of imported clean - free from clay, debris, construction materials for all layers as specified - including all construction areas.
- Concrete to be in accordance with Councils Standard Drawings.
- CCTV all stormwater pipes prior to PC and prior to end of defects inspection.
- All Junction pits to have lightweight composite pit lids.
- All pits to be rendered and mortared, pipes cut flush with pit wall and drained.
- Pits to have flat base (no slope).

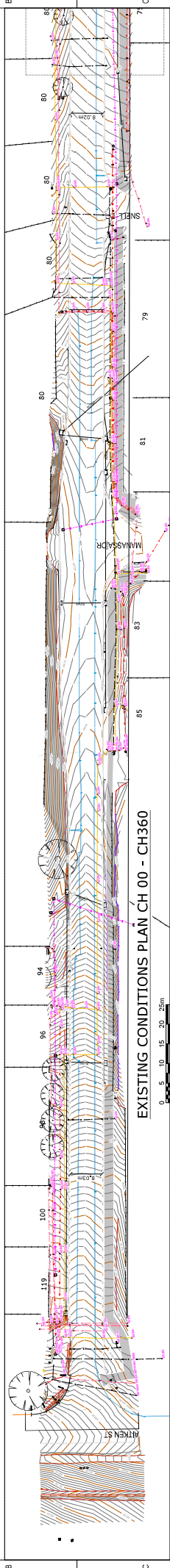
SCALE: AS SHOWN @ A3	
SHEET: 1 OF 25	
DRAWING No.: 13651 - C1	
REV A	
FERSFIELD ROAD RECONSTRUCTION GISBORNE FACE SHEET	
BCS Consulting Engineers Pty Ltd. CIVIL & STRUCTURAL SURVEYING & PROJECT MANAGEMENT 79 AITKEN STREET, GISBORNE 4347 PHONE (03) 429 3296	
PROJECT NUMBER	TBC
APPROVED DATE	18/10/24
DESIGNED DATE	18/10/24
DRAWN DATE	18/10/24
CHECKED DATE	18/10/24
APPROVED DATE	18/10/24
DATE	DATE
REV	DESCRIPTION
A	FIRST ISSUE
18/10/24	JUBACKLE
18/10/24	REV
2	DESCRIPTION

EXTENT OF WORKS: STAGE 1



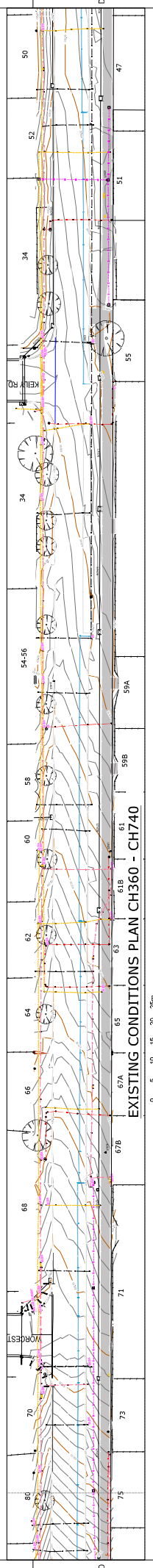
EXISTING CONDITIONS PLAN

0 5 10 15 20 25m
1:500



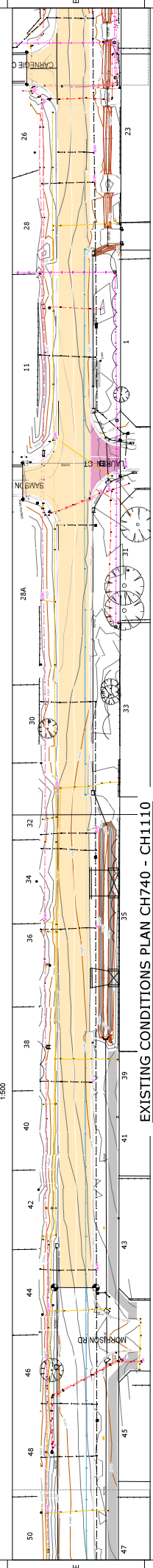
EXISTING CONDITIONS PLAN CH 00 - CH360

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1:500



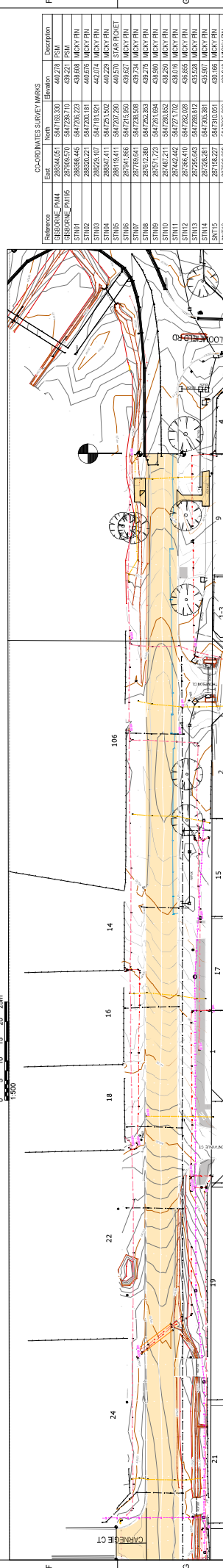
EXISTING CONDITIONS PLAN CH360 - CH740

0 5 10 15 20 25m
1:500



EXISTING CONDITIONS PLAN CH740 - CH1110

0 5 10 15 20 25m
1:500



EXISTING CONDITIONS PLAN CH1110 - CH1434

0 5 10 15 20 25m
1:500

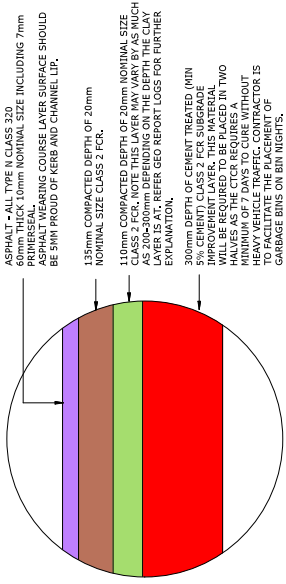
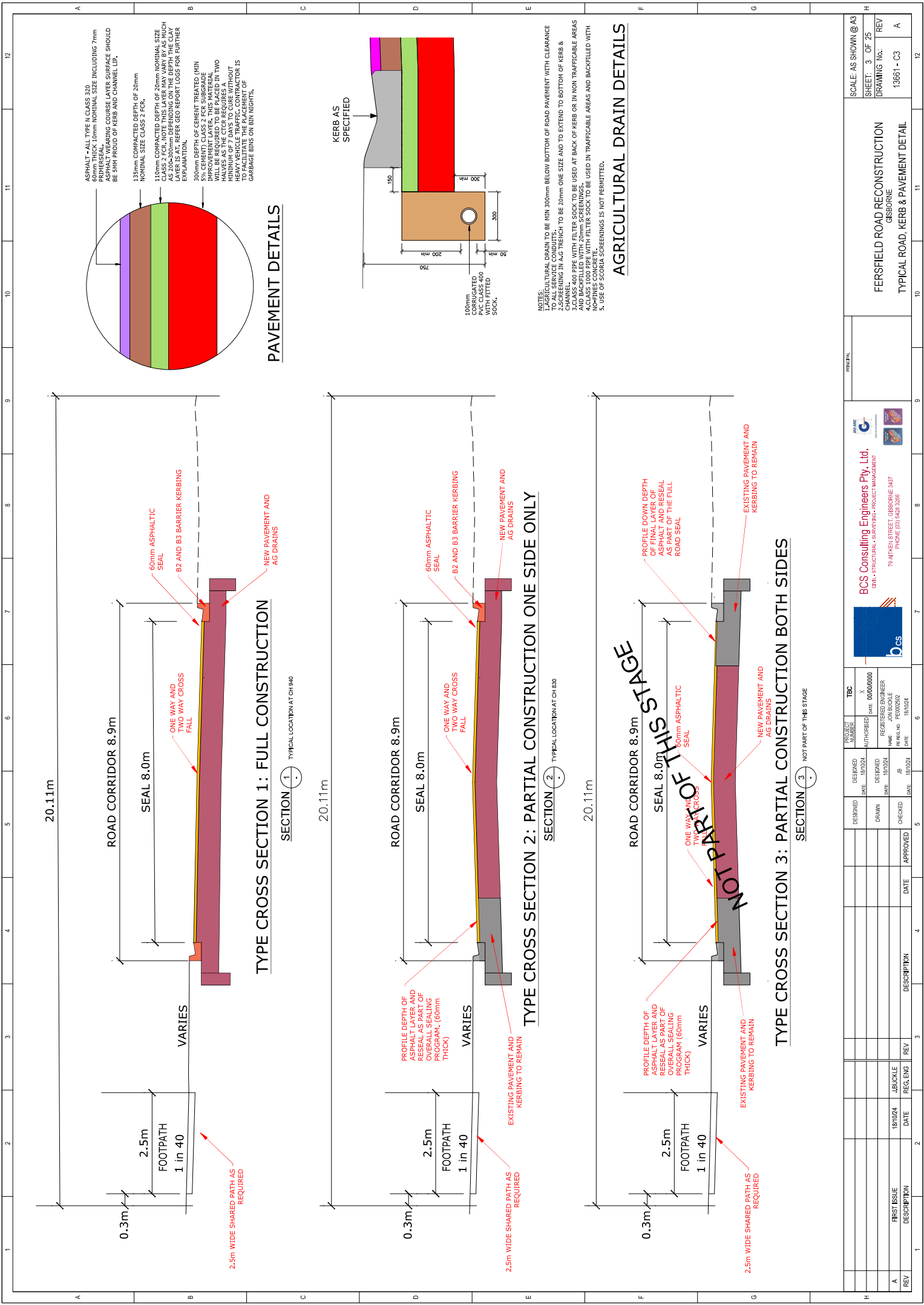
Reference	Point	North	Elevation	Description
OSBORNE	OSM1	28544.051	5847105.330	442.278 PSN
OSBORNE	OSM2	28544.051	5847105.330	439.271 PSN
OSBORNE	OSM3	28544.051	5847105.330	439.271 PSN
OSBORNE	OSM4	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM5	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM6	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM7	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM8	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM9	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM10	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM11	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM12	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM13	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM14	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM15	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM16	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM17	28544.051	5847105.330	440.676 MCKY'FN
OSBORNE	OSM18	28544.051	5847105.330	440.676 MCKY'FN

- A MISC ASSET PROTECTION PERMIT MUST BE TAKEN OUT BEFORE ANY WORKS CAN COMMENCE WHATSOEVER. DEFINED BY CONTRACTOR PRIOR TO ANY WORKS WHATSOEVER. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY DAMAGE TO ANY SERVICES.

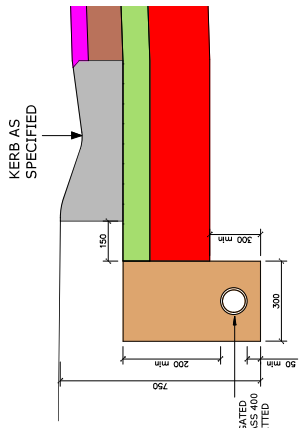
DESIGNED		DESIGNED DATE	18/02/24	DESIGNED BY	JON BUCKLE	DESIGNED DATE	18/02/24	TBC	X
DRAWN		DRAWN DATE	18/02/24	REGISTERED ENGINEER	JON BUCKLE	REGISTERED ENGINEER	18/02/24	PROJECT NUMBER	00/000000
CHECKED		CHECKED DATE	18/02/24	PERMITS NO.	PE020202	PERMITS NO.	18/02/24	PROJECT NAME	FERSFIELD ROAD RECONSTRUCTION
APPROVED		APPROVED DATE		DESCRIPTION	EXISTING CONDITIONS PLAN	APPROVED DATE		PROJECT LOCATION	79 AITKEN STREET, OSBORNE 3437
REV	DESCRIPTION	DATE	REV	DESCRIPTION	DATE	REV	DESCRIPTION	SCALE	AS SHOWN @ A3
A	FIRST ISSUE	18/02/24	J	REVISION				SHEET	2 OF 25
								DRAWING No.	13661 - C2
								PROJECT	EXISTING CONDITIONS PLAN

BCS Consulting Engineers Pty Ltd.
 CIVIL & STRUCTURAL SURVEYING PROJECT MANAGEMENT
 79 AITKEN STREET, OSBORNE 3437
 PHONE (03) 429 3286

BCS



PAVEMENT DETAILS



- NOTES:**
1. AGRICULTURAL DRAIN TO BE MIN 300mm BELOW BOTTOM OF ROAD PAVEMENT WITH CLEARANCE TO ALL SERVICE CONDUITS.
 2. SCREENING IN A.G. TRENCH TO BE 20mm ONE SIZE AND TO EXTEND TO BOTTOM OF KERB & 3. CLASS 400 PIPE WITH FILTER SOCK TO BE USED AT BACK OF KERB OR IN NON TRAFFICABLE AREAS AND BACKFILLED WITH 20mm SCREENINGS.
 3. CLASS 400 PIPE WITH FILTER SOCK TO BE USED IN TRAFFICABLE AREAS AND BACKFILLED WITH NON-FINES CONCRETE.
 5. USE OF SCORIA SCREENINGS IS NOT PERMITTED.

AGRICULTURAL DRAIN DETAILS

TYPE CROSS SECTION 1: FULL CONSTRUCTION

SECTION 1 TYPICAL LOCATION AT CH 190

TYPE CROSS SECTION 2: PARTIAL CONSTRUCTION ONE SIDE ONLY

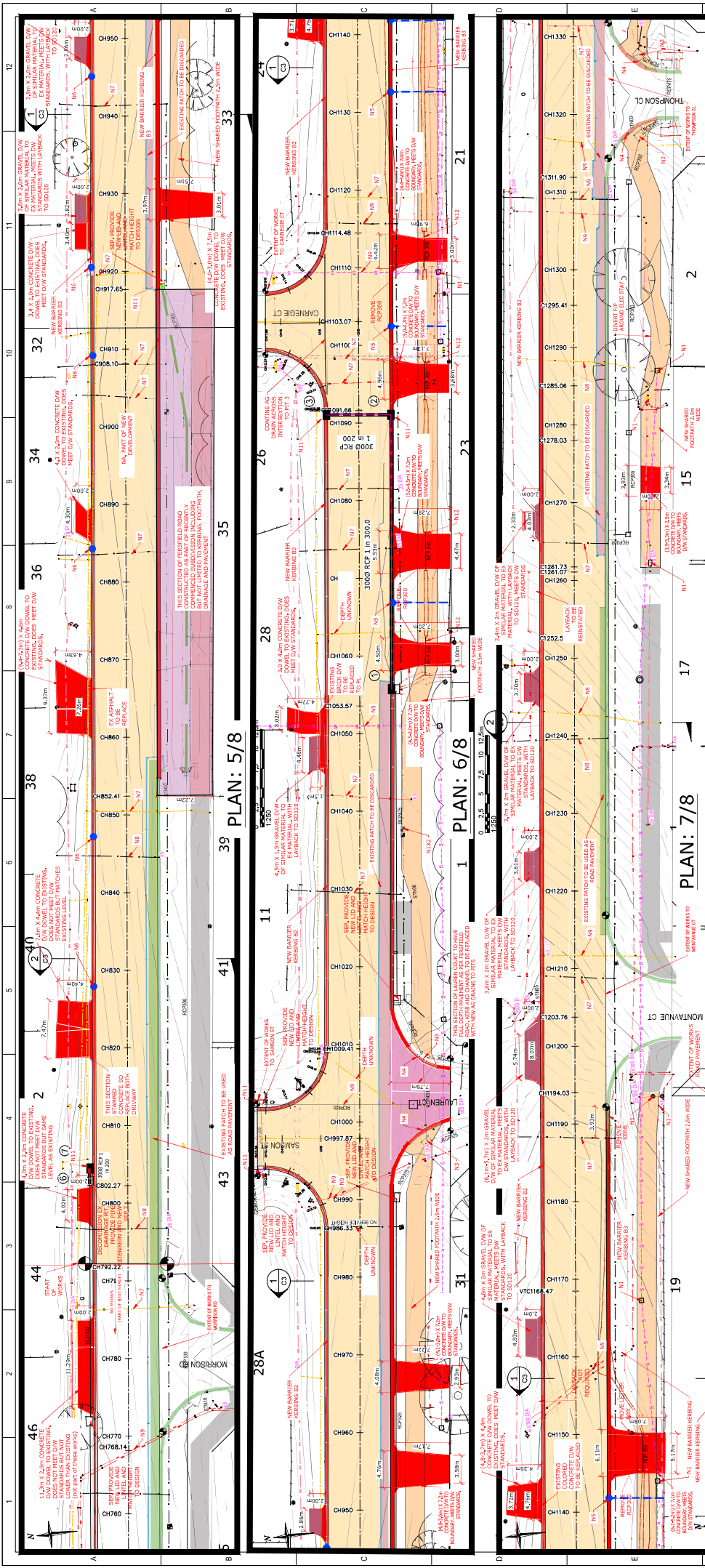
SECTION 2 TYPICAL LOCATION AT CH 830

TYPE CROSS SECTION 3: PARTIAL CONSTRUCTION BOTH SIDES

SECTION 3 NOT PART OF THIS STAGE

NOT PART OF THIS STAGE

SCALE: AS SHOWN @ A3		SHEET: 3 OF 25	
DRAWING No.: 13661 - C3		REV A	
FERSFIELD ROAD RECONSTRUCTION GISBORNE TYPICAL ROAD, KERB & PAVEMENT DETAIL			
 BCS Consulting Engineers Pty. Ltd. <small>CONSULTING ENGINEERS</small> <small>91-91 STRUCTURAL - SUBMITTALS PROJECT MANAGEMENT</small> <small>79 ALTYER STREET, GISBORNE 4137</small> <small>PHONE (03) 429 3266</small>		<small>TBC</small> <small>PROJECT NUMBER</small> X <small>REGISTERED ENGINEER</small> 000000000 <small>DATE</small> 18/10/24 <small>REGISTERED ENGINEER</small> JON BUCKLE <small>NAME</small> JON BUCKLE <small>PERMITS NO.</small> PE002002 <small>DATE</small> 18/10/24	
DESIGNED	DESIGNED	DATE	DATE
18/10/24	18/10/24		
DRAWN	CHECKED	APPROVED	DATE
REV	DESCRIPTION	DATE	DATE
A	FIRST ISSUE	18/10/24	
	REV		



LEGEND

- PROPOSED AREA OF PAVEMENT RECONSTRUCTION
- PROPOSED NEW PAVEMENT ON INTERSECTING ROADS
- PROPOSED NEW CONCRETE DELIVERY
- PROPOSED GRAVEL DRIVEWAY LINE FOR LIME
- PROPOSED NEW KERB AND CHANNEL
- EXISTING KERB AND CHANNEL TO REMAIN
- EXISTING PAVEMENT TO REMAIN
- EXISTING PAVEMENT TO BE REINFORCED
- LINE INDICATING DEMARCATION OF PREVIOUS PAVEMENT WORKS
- EXISTING FOOTPATH
- GAS
- WATER
- TELSTRA
- ELEC UNDERGROUND
- SEWERAGE
- DRAINAGE 3000 AND PIT
- NEW PAVED FOOTPATH WIDE
- DRIVEWAY
- UTILITY
- UTILITY STATION

NOTES LEGEND:

- N1: MATCH UTILITY SERVICES(PIT) TO FOOTPATH LEVELS
- N2: MOVE SIGN
- N3: MATCH DRAINAGE PIT (LIDS) HEIGHTS TO F/P LEVELS
- N4: NEW B2 KERB TO EACH KERB RETURN INCLUDING
- N5: MATCH CONNECTION TO BACK OF KERB FROM PROPERTY BOUNDARY TO KERB WITH KERB ADAPTER FROM PROPERTY
- N6: NEW PROPERTY CONNECTION AT BACK OF KERB AND CONNECT TO EXISTING BACK OF KERB PROPERTY OUTLET; PROVIDE KERB ADAPTER
- N7: ENCASE SERVICE IN CEMENT STABILISED CRUSHED ROCK
- N8: SERVICE TO BE LOWERED
- N9: SERVICE TO CHECKED BUT APPEARS LOW ENOUGH
- N10: MODIFY PIT TO DIM SD 480 AND MATCH LEVEL TO NEW FOOTPATH LEVELS AND PAVE CROSSING AT
- N11: BOTH SIDES OF PIT AS PER DIM STANDARD SHOW IN PIT DRAWINGS. AS DRAIN TO BE CONNECTED TO PITS WHERE THERE ARE NEW OR EXISTING PITS. IF THE PIT IS THERE CONNECT THE AS DRAIN AND BACKFILL WITH SUITABLE CONCRETE MATERIAL

PLAN: 8/8

PLAN: 6/8

PLAN: 7/8

PLAN: 5/8

SCALE: AS SHOWN @3		SHEET: 4 OF 25	
DRAWING No. 13661 - C5		REV A	
FERSFIELD ROAD RECONSTRUCTION			
GIBBORNE			
DESIGN PLAN 22			
BCS Consulting Engineers Pty Ltd.		79 AITKEN STREET, GIBBORNE 3437 PHONE (03) 42932266	
DESIGNED	DATE	DESIGNED	DATE
18/02/24	18/02/24	18/02/24	18/02/24
CHECKED	DATE	CHECKED	DATE
18/02/24	18/02/24	18/02/24	18/02/24
APPROVED	DATE	APPROVED	DATE
18/02/24	18/02/24	18/02/24	18/02/24
DESCRIPTION	REV	DESCRIPTION	REV
FIRST ISSUE			
REV		REV	