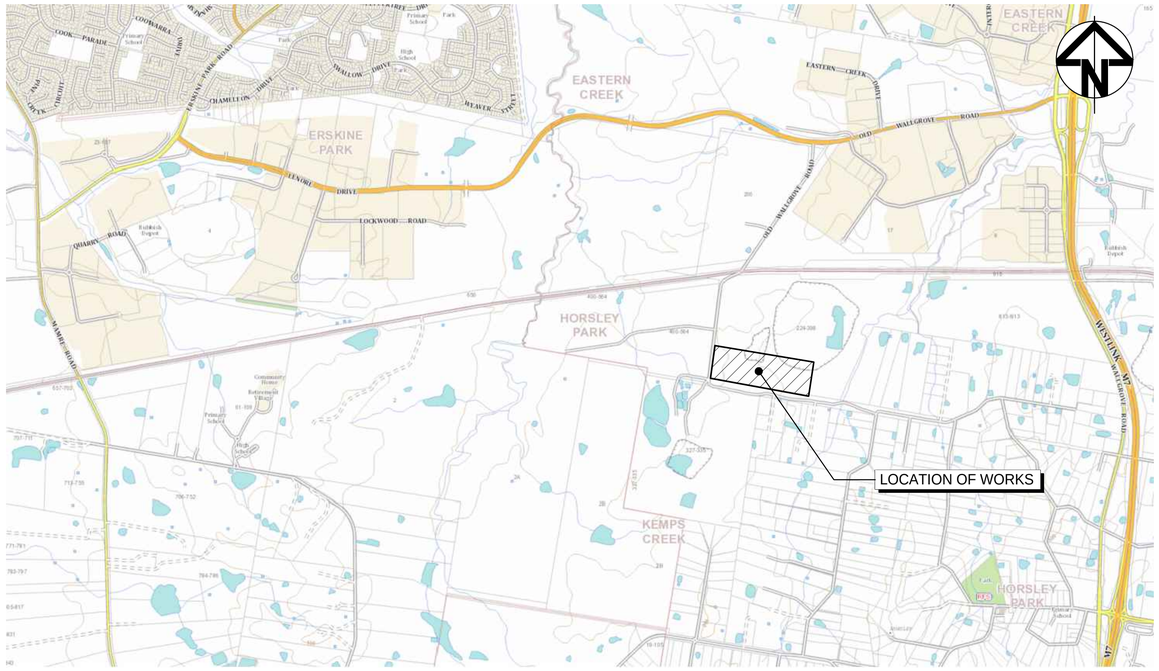
OAKDALE EAST

DEVELOPMENT APPROVAL

DRAWING LIST	
DRAWING No.	DRAWING TITLE
18-563-C1000	COVER SHEET DRAWING LIST AND LOCALITY PLAN
18-563-C1001	GENERAL NOTES
18-563-C1002	TYPICAL ROAD SECTIONS
18-563-C1003	TYPICAL SERVICES TRENCH SECTIONS
18-563-C1004	GENERAL ARRANGEMENT PLAN
18-563-C1005	TYPICAL SECTIONS SHEET 1
18-563-C1006	TYPICAL SECTIONS SHEET 2
18-563-C1007	TYPICAL SECTIONS SHEET 3
18-563-C1008	TYPICAL SECTIONS SHEET 4
18-563-C1011	SITEWORKS AND STORMWATER PLAN SHEET 1
18-563-C1012	SITEWORKS AND STORMWATER PLAN SHEET 2
18-563-C1013	SITEWORKS AND STORMWATER PLAN SHEET 3
18-563-C1014	SITEWORKS AND STORMWATER PLAN SHEET 4
18-563-C1015	SITEWORKS AND STORMWATER PLAN SHEET 5
18-563-C1016	SITEWORKS AND STORMWATER PLAN SHEET 6
18-563-C1017	SITEWORKS AND STORMWATER PLAN SHEET 7
18-563-C1018	SITEWORKS AND STORMWATER PLAN SHEET 8
18-563-C1019	SITEWORKS AND STORMWATER PLAN SHEET 9
18-563-C1020	SITEWORKS AND STORMWATER PLAN SHEET 10
18-563-C1025	ONSITE DETENTION BASIN PLAN AND DETAILS
18-563-C1030	PAVEMENT PLAN SHEET 1
18-563-C1031	PAVEMENT PLAN SHEET 2
18-563-C1032	PAVEMENT PLAN SHEET 3
18-563-C1033	PAVEMENT PLAN SHEET 4
18-563-C1035	EROSION AND SEDIMENT CONTROL PLAN SHEET 1
18-563-C1036	EROSION AND SEDIMENT CONTROL PLAN SHEET 2
18-563-C1037	EROSION AND SEDIMENT CONTROL PLAN SHEET 3
18-563-C1038	EROSION AND SEDIMENT CONTROL PLAN SHEET 4
18-563-C1039	EROSION AND SEDIMENT CONTROL DETAILS
18-563-C1040	ESTATE ROAD (CL01) LONGITUDINAL SECTIONS
18-563-C1045	ESTATE ROAD (CL01) CROSS SECTIONS SHEET 1
18-563-C1046	ESTATE ROAD (CL01) CROSS SECTIONS SHEET 2
18-563-C1050	SERVICES AND UTILITIES COORDINATION PLAN SHEET 1
18-563-C1051	SERVICES AND UTILITIES COORDINATION PLAN SHEET 2
18-563-C1052	SERVICES AND UTILITIES COORDINATION PLAN SHEET 3
18-563-C1055	EXISTING STORMWATER CATCHMENT PLAN
18-563-C1056	PROPOSED STORMWATER CATCHMENT PLAN
18-563-C1060	STORMWATER LONGITUDINAL SECTION SHEET 1
18-563-C1061	STORMWATER LONGITUDINAL SECTION SHEET 2
18-563-C1062	STORMWATER LONGITUDINAL SECTION SHEET 3
18-563-C1063	STORMWATER LONGITUDINAL SECTION SHEET 4
18-563-C1064	STORMWATER LONGITUDINAL SECTION SHEET 5
18-563-C1065	STORMWATER LONGITUDINAL SECTION SHEET 6
18-563-C1066	STORMWATER LONGITUDINAL SECTION SHEET 7
18-563-C1067	STORMWATER LONGITUDINAL SECTION SHEET 8
18-563-C1068	STORMWATER LONGITUDINAL SECTION SHEET 9
18-563-C1069	STORMWATER LONGITUDINAL SECTION SHEET 10
18-563-C1070	STORMWATER LONGITUDINAL SECTION SHEET 11
18-563-C1090	TURNPATH PLAN - SHEET 1
18-563-C1091	TURNPATH PLAN - SHEET 2
18-563-C1092	TURNPATH PLAN - SHEET 3
18-563-C1093	TURNPATH PLAN - SHEET 4
18-563-C1094	TURNPATH PLAN - SHEET 5

DRAWING LIST	
DRAWING No.	DRAWING TITLE
18-563-C1100	OWR UPGRADE - GENERAL ARRANGEMENT PLAN
18-563-C1101	OWR UPGRADE - TYPICAL ROAD SECTIONS SHEET 1
18-563-C1102	OWR UPGRADE - TYPICAL ROAD SECTIONS SHEET 2
18-563-C1105	OWR UPGRADE - ROADWORKS AND STORMWATER PLAN SHEET 1
18-563-C1106	OWR UPGRADE - ROADWORKS AND STORMWATER PLAN SHEET 2
18-563-C1110	OWR UPGRADE - PAVEMENT PLAN
18-563-C1111	OWR UPGRADE - PAVEMENT MARKING AND SIGNPOSTING PLAN
18-563-C1112	OWR UPGRADE - STORMWATER CATCHMENT PLAN
18-563-C1113	OWR UPGRADE - EROSION AND SEDIMENT CONTROL PLAN
18-563-C1114	OWR UPGRADE - EROSION AND SEDIMENT CONTROL DETAILS
18-563-C1120	OWR UPGRADE - ROADWORKS LONGITUDINAL SECTION
18-563-C1130	OWR UPGRADE - SERVICES AND UTILITIES COORDINATION PLAN SHEET 1
18-563-C1131	OWR UPGRADE - SERVICES AND UTILITIES COORDINATION PLAN SHEET 2
18-563-C1140	OWR UPGRADE - STORMWATER LONGITUDINAL SECTION SHEET 1
18-563-C1141	OWR UPGRADE - STORMWATER LONGITUDINAL SECTION SHEET 2
18-563-C1150	OWR UPGRADE - TURNING PATH PLAN



LOCALITY PLAN
NTS

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

Client: Goodman

Scales	NTS	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
COVER SHEET
DRAWING LIST
AND LOCALITY PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1000

Issue
A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1000.dwg

SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMAPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
6. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
7. ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S SPECIFICATION R116.
8. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051 (UNBOUND), R.M.S FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1
   FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF BASECOURSE MATERIAL PLACED.
9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1
   FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m² OF SUB-BASE COURSE MATERIAL PLACED.
10. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L.
11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
12. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY CARDNO HARD & FORESTER PTY LTD, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT & L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT & L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

IMPORTANT NOTE:
THIS PLAN IS PREPARED FROM A COMBINATION OF FIELD SURVEY AND EXISTING RECORDS FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS ON THE LAND AND SHOULD NOT BE USED FOR ANY OTHER PURPOSE. THE TITLE BOUNDARIES SHOWN HEREON WERE NOT MARKED BY THE AUTHOR AT THE TIME OF SURVEY AND HAVE BEEN DETERMINED BY PLAN DIMENSIONS ONLY AND NOT BY FIELD MEASUREMENT.

A SERVICES SEARCH OF THE AREA SURVEYED ABOVE HAS NOT BEEN UNDERTAKEN. VISIBLE SERVICES SHOWN HEREON HAVE BEEN LOCATED WHERE POSSIBLE BY FIELD SURVEY. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE, THE RELEVANT AUTHORITY SHOULD BE CONTACTED FOR POSSIBLE LOCATION OF FURTHER UNDERGROUND SERVICES AND DETAILED LOCATIONS OF ALL SERVICES. THIS NOTE IS AN INTEGRAL PART OF THIS PLAN.

EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.

AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.

CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.

CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.

CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
2. CONCRETE QUALITY
   ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT 1 SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa AT 28 DAYS	SPECIFIED SLUMP	NOMINAL AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND PITS	25	80	20

   - CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL
   - PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.
3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY AT & L.
4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS.
6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH R.M.S SPECIFICATION R83.
7. REINFORCEMENT SYMBOLS:
   N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N
   R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302
   SL DENOTES HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304

   NUMBER OF BARS IN GROUP — BAR GRADE AND TYPE
   17 N 20 250
   NOMINAL BAR SIZE IN mm — SPACING IN mm

   THE FIGURE FOLLOWING THE FABRIC SYMBOL SL IS THE REFERANCE NUMBER FOR FABRIC TO AS 1304.
8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL:

KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF N32 U.N.O IN REINFORCED CONCRETE NOTES.
2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON MIN. 100mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).
3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.
5. BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.
6. IN THE REPLACEMENT OF KERB AND GUTTER :-
   EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.

TREE PROTECTION NOTES

TREES TO BE RETAINED ARE TO BE PROTECTED PRIOR TO AND DURING CONSTRUCTION ACTIVITIES ON THE SITE.

IDENTIFY AND MARK TREES AND SHRUBS TO BE RETAINED USING A SUITABLE NON-INJURIOUS, EASILY VISIBLE AND REMOVABLE MEANS OF IDENTIFICATION.

TREES TO BE RETAINED SHALL BE PROTECTED IN ACCORDANCE WITH THE LATEST EDITION OF AS 4970. GENERALLY, THIS INCLUDES, BUT IS NOT LIMITED TO, THE INSTALLATION OF TREE PROTECTION FENCING AT THE PERIMETER OF THE TREE PROTECTION ZONE.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
   (A) AVERAGE RECURRENCE INTERVAL:
   1:100 YEARS ROOFED AREAS TO SURCHARGE PIT
   1:5 YEARS EXTERNAL PAVEMENTS
   (B) RAINFALL INTENSITIES:
   TIME OF CONCENTRATION 5 MINUTES
   1:100 YEARS= 220 mm/hr
   1:5 YEARS= 134 mm/hr
   (C) RUNOFF COEFFICIENTS:
   ROOF AREAS: C100 =1.0
   EXTERNAL PAVEMENTS: C100 =1.0
2. PIPES 300 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH VCP OR FRC PIPES MAY BE USED, SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT.
5. ALL STORMWATER DRAINAGE LINES UNDER PROPOSED BUILDING SLABS TO BE uPVC PRESSURE PIPE GRADE 6. ENSURE ALL VERTICALS AND DOWNPIPES ARE uPVC PRESSURE PIPE, GRADE 6 FOR A MIN OF 3.0m IN HEIGHT.
6. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
8. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY AT & L.
9. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
10. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
11. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
12. GRATES AND COVERS SHALL CONFORM TO AS 3996.
13. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
14. ALL EXISTING STORMWATER DRAINAGE LINES AND PITS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR FURTHER DIRECTIONS.

EMBANKMENT CONSTRUCTION SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SLUSH, GROUTING AND DENTAL CONCRETE MAY BE REQUIRED, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
4. COMPACT CLAY STABILIZED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289 5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILIZED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289 5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILIZE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. LOCAL AUTHORITY REQUIREMENTS
   b. EPA REQUIREMENTS
   c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.
5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.

LAND DISTURBANCE

6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
   (A) INSTALL A WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
   (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
   (F) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

OTHER MATTERS

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
   (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
   (B) ENSURING THAT NOTHING IS NAILED TO THEM
   (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
      (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER
      (II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
      (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

SITEWORKS LEGEND

EXISTING

- EXISTING BOUNDARY
- EXISTING EASEMENT
- EXISTING 10m RIPARIAN ZONE
- EXISTING 15m RIPARIAN ZONE
- EXISTING 30m RIPARIAN ZONE
- EXISTING 100yr FLOOD EXTENT
- 60.0 EXISTING CONTOUR

PROPOSED

- PROPOSED BOUNDARY
- LANDSCAPE SETBACK
- 65.0 PROPOSED CONTOUR
- F75.00 PROPOSED LEVEL
- RETAINING WALL
- 375ø STORMWATER PIPE WITH SIZE
- KERB INLET PIT
- SURFACE INLET PIT
- GRATED DRAINS
- GPT GROSS POLLUTANT TRAPS
- JUNCTION PIT
- HEADWALL
- CREEK OUTLET
- AA\1 PROPOSED STORMWATER PIT NUMBER
- SWALE WITH DIRECTION OF FLOW
- PROPOSED GUARD RAIL
- PROPOSED FILL RETAINING WALL
- PROPOSED CUT RETAINING WALL
- PROPOSED PRAM RAMP

SERVICES

- ø450 S PROPOSED SEWER MAIN
- 1\1 PROPOSED SEWER MANHOLE NUMBER
- PROPOSED SEWER MANHOLE
- ø250 W PROPOSED WATERMAIN
- PROPOSED WATER HYDRANT
- PROPOSED WATER STOP VALVE
- T PROPOSED TELSTRA
- G PROPOSED SPARE ø150 CONDUIT FOR FUTURE GAS
- E PROPOSED ELECTRICAL
- PROPOSED LIGHT POLE

BULK EARTHWORKS NOTES

1. THE EXISTING STOCKPILES LOCATED WITHIN THE OAKDALE EAST DEVELOPMENT SITE ARE PROPOSED TO BE RELOCATED FOR STORAGE AND USE TO OTHER LOCATIONS ON THE PLANT 3 SITE. THIS RELOCATION IS TO BE UNDERTAKEN PURSUANT TO THE EXISTING MINING DA APPROVAL (PERMIT NO.1340, DATED 12 JULY 1971), AND DOES NOT THEREFORE FORM PART OF PROPOSED WORKS UNDER THIS DA. PADS OF APPROXIMATELY RL79.0 WILL BE HANDED OVER FOR COMMENCEMENT OF WORKS PROPOSED UNDER THIS OAKDALE EAST DA APPROVAL.
2. THE EXISTING CONTOURS SHOWN WITHIN OAKDALE EAST INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN

CONTRACTOR SHALL CALL;
DIAL BEFORE YOU DIG 1100
PRIOR TO COMMENCEMENT OF WORK TO OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS

DIAL 1100 BEFORE YOU DIG

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

Client: Goodman

Scales	
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: GENERAL NOTES

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

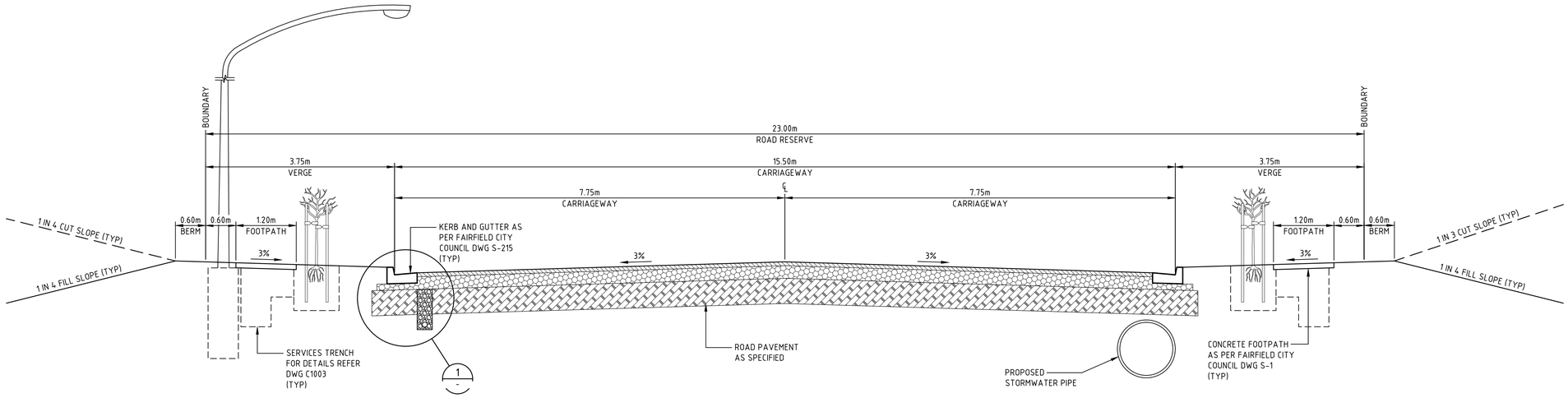
A1

Project No. - Drawing No.: 18-563-C1001

Issue: A

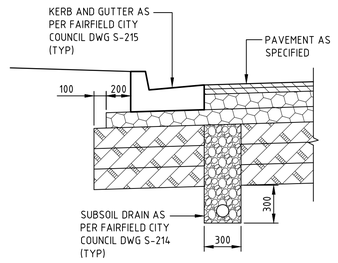
100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1001.dwg



TYPICAL SECTION - ESTATE ROAD

SCALE 1:50



DETAIL 1 / C002

1 : 25

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

Client: Goodman

Scales	AS SHOWN
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: TYPICAL ROAD SECTIONS

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

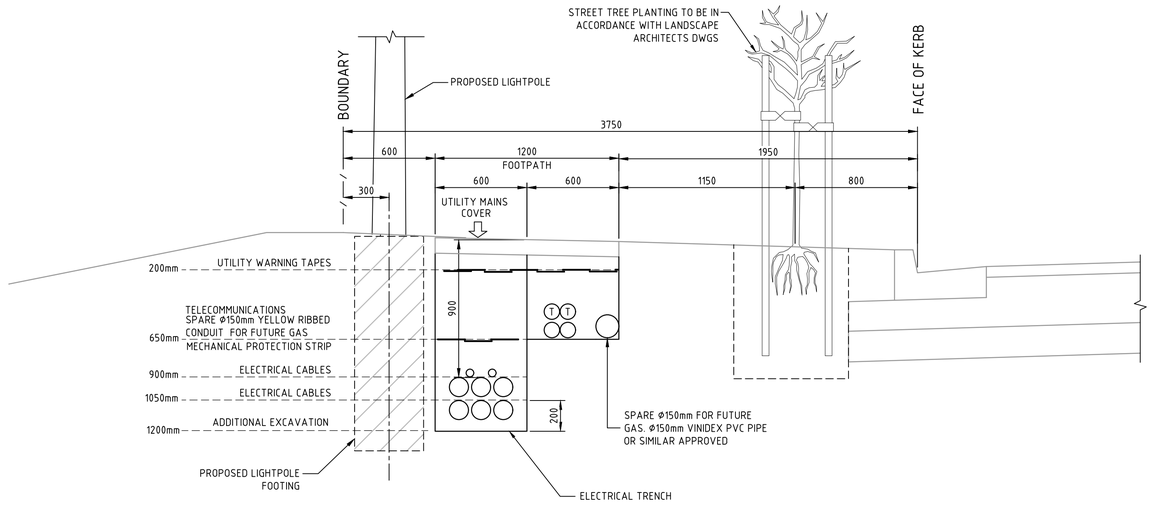
A1

Project No. - Drawing No.: 18-563-C1002

Issue: A

100mm on Original

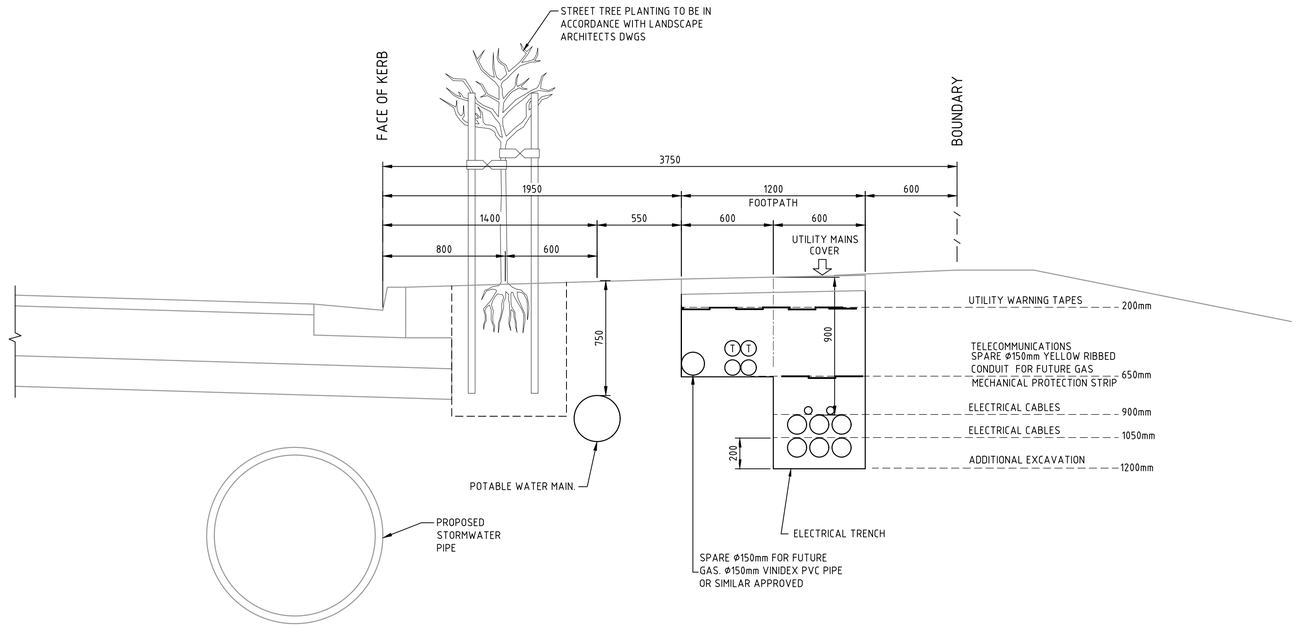
\\atlserver2\projects\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1002.dwg



TRENCH DETAIL
TYPICAL ESTATE ROAD NORTHERN VERGE

SCALE 1:20

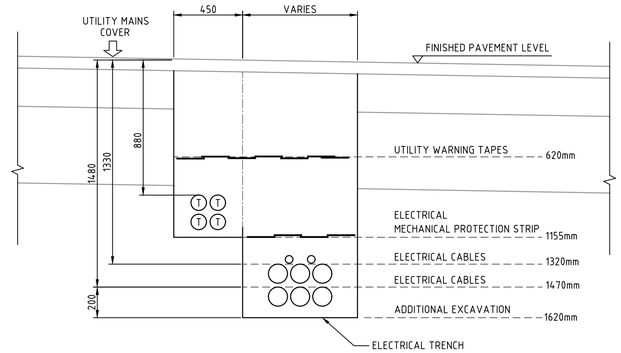
SECION 1 : 20 — 1 / C1050



TRENCH DETAIL
TYPICAL ESTATE ROAD SOUTHERN VERGE

SCALE 1:20

SECION 1 : 20 — 1 / C1050



TYPICAL SERVICES TRENCH DETAIL (ROAD CROSSING)

SCALE 1:20

NOTE: WHERE SPARE ROAD CROSSINGS ARE INSTALLED, EXTEND DUCTS 1m PAST FACE OF KERB

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 500 1000 1500 2000mm

1 : 20 @ A1 1 : 40 @ A3

Client: Goodman

Scales	AS SHOWN
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: TYPICAL SERVICES TRENCH SECTIONS

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION

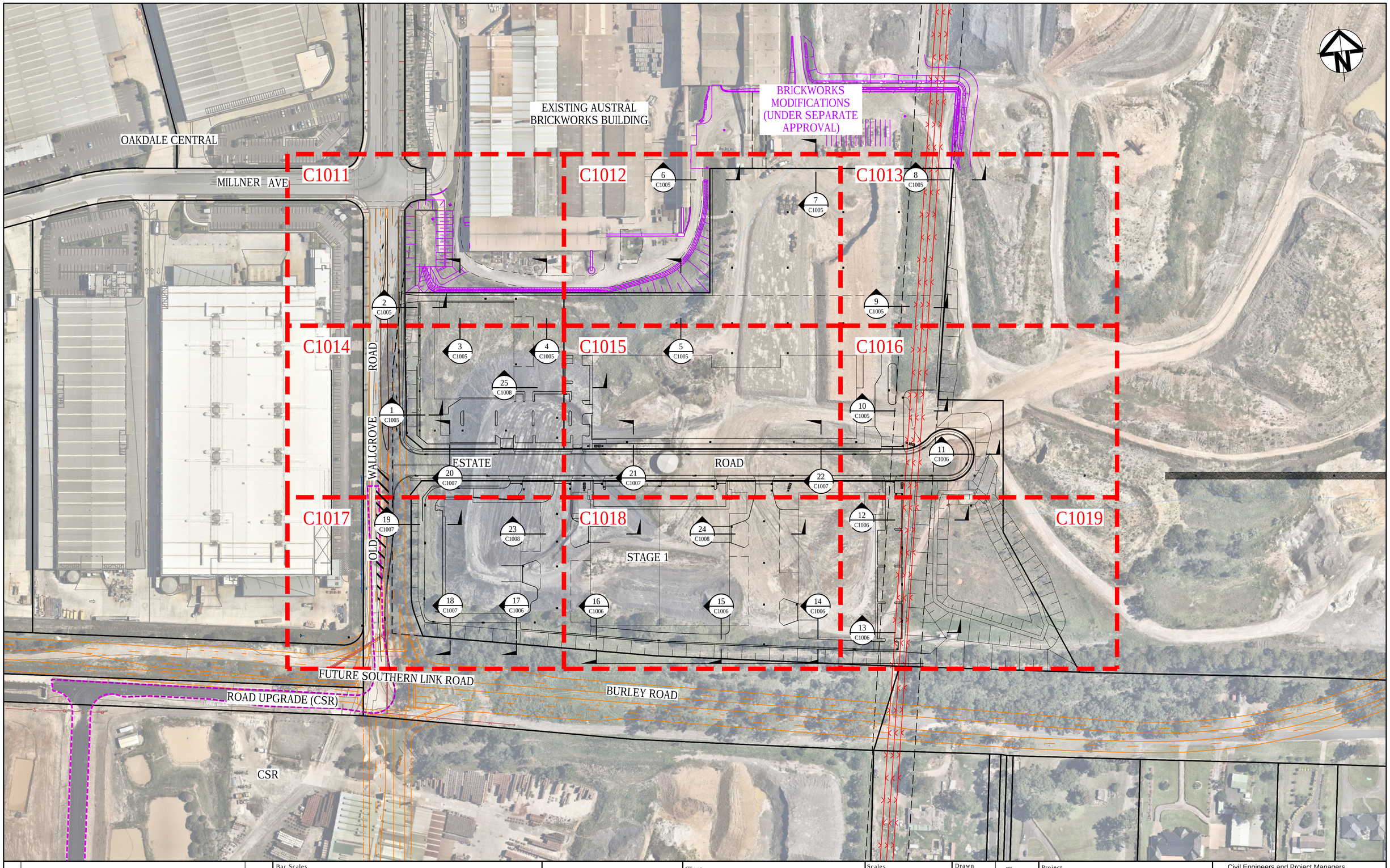
A1

Project No. - Drawing No.: 18-563-C1003

Issue: A

100mm on Original

\\atlserver2\projects\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1003.dwg



Issue	Description	Date
B	FOR APPROVAL	25-10-19
A	FOR APPROVAL	08-03-18

Bar Scales

0 25 50 75 100 125m

1 : 1250 @ A1 1 : 2500 @ A3

Client: Goodman

Scales: 1 : 1250

Grid: MGA

Height Datum: AHD

Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

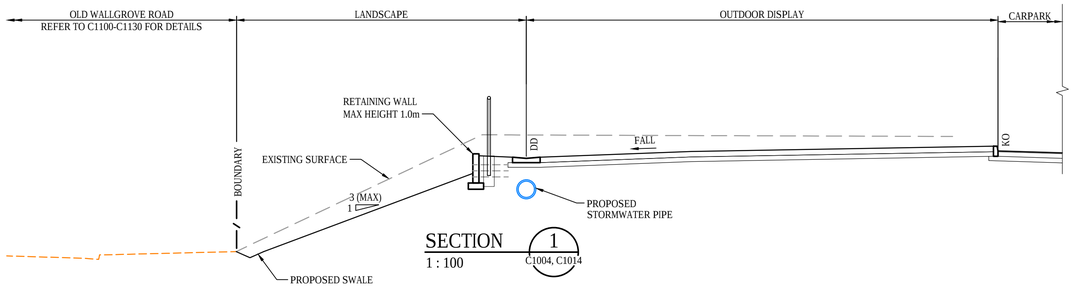
A1

Project No. - Drawing No.: 18-563-C1004

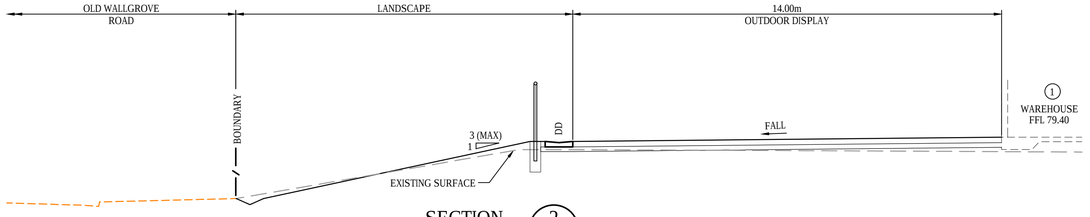
Issue: B

100mm on Original

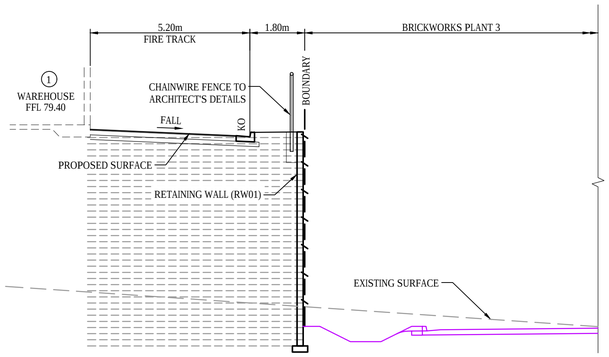
F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1004.dwg



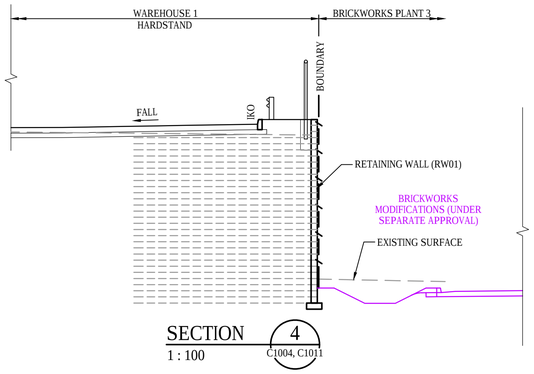
SECTION 1
1 : 100
C1004, C1014



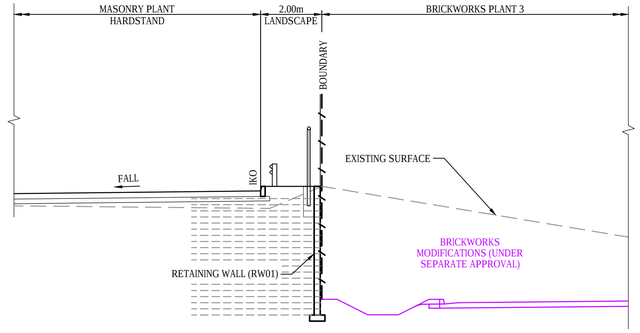
SECTION 2
1 : 100
C1004, C1011



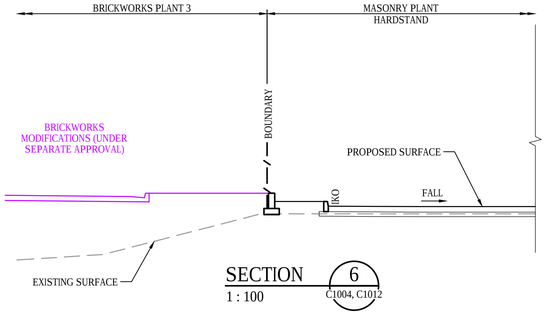
SECTION 3
1 : 100
C1004, C1011



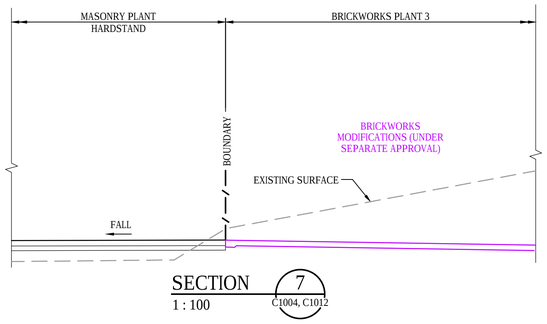
SECTION 4
1 : 100
C1004, C1011



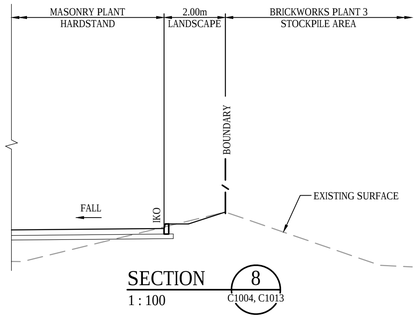
SECTION 5
1 : 100
C1004, C1012



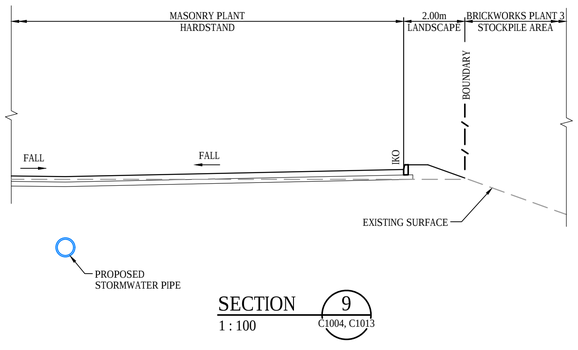
SECTION 6
1 : 100
C1004, C1012



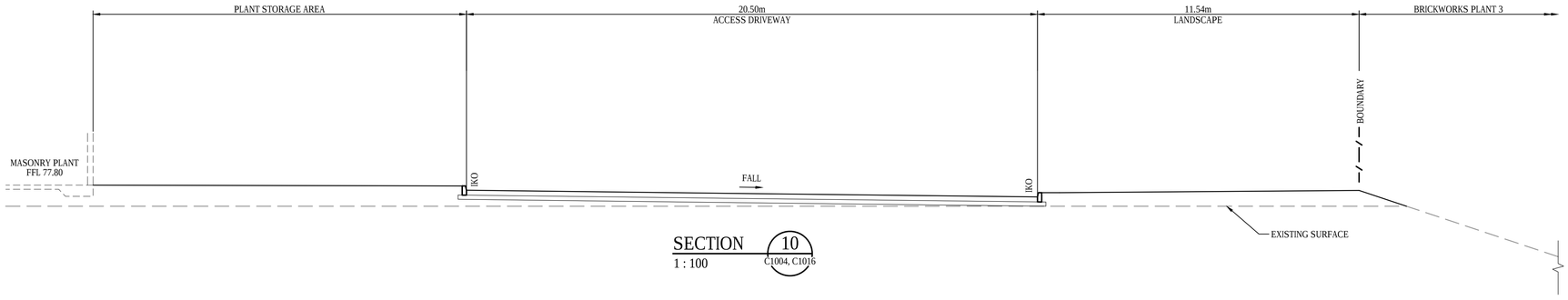
SECTION 7
1 : 100
C1004, C1012



SECTION 8
1 : 100
C1004, C1013



SECTION 9
1 : 100
C1004, C1013



SECTION 10
1 : 100
C1004, C1016

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

Goodman

Scales	1 : 100	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

TYPICAL SECTIONS SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

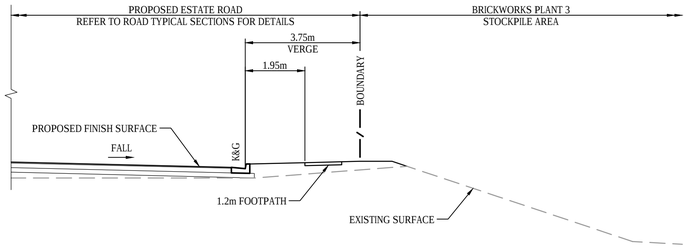
A1

Project No. - Drawing No.: 18-563-C1005

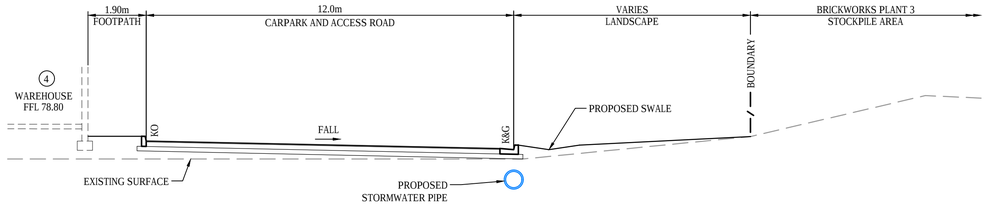
Issue: A

100mm on Original

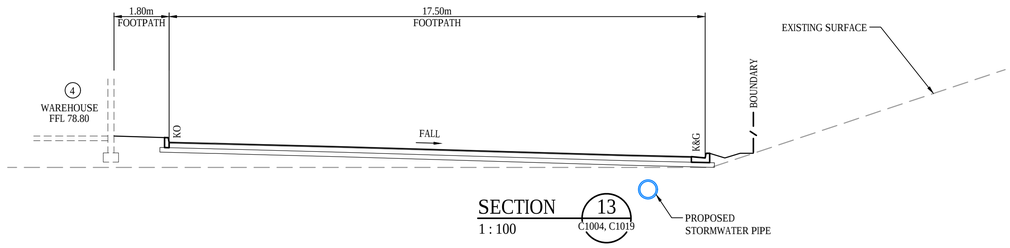
F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1005.dwg



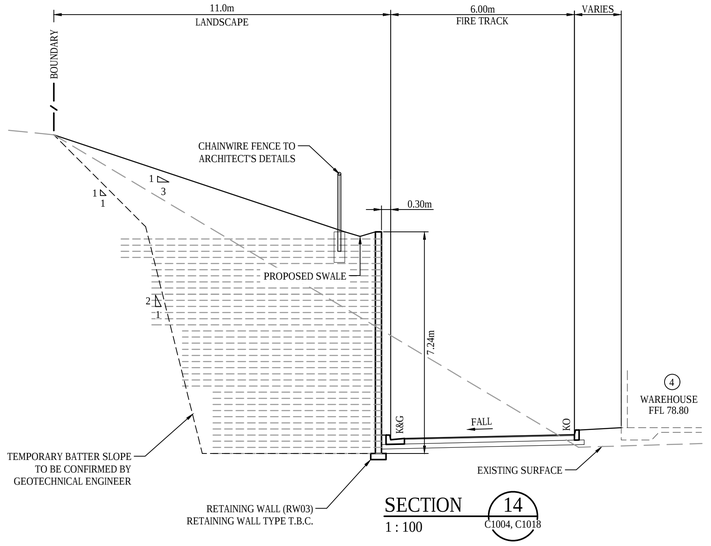
SECTION 11
1 : 100 C1004, C1016



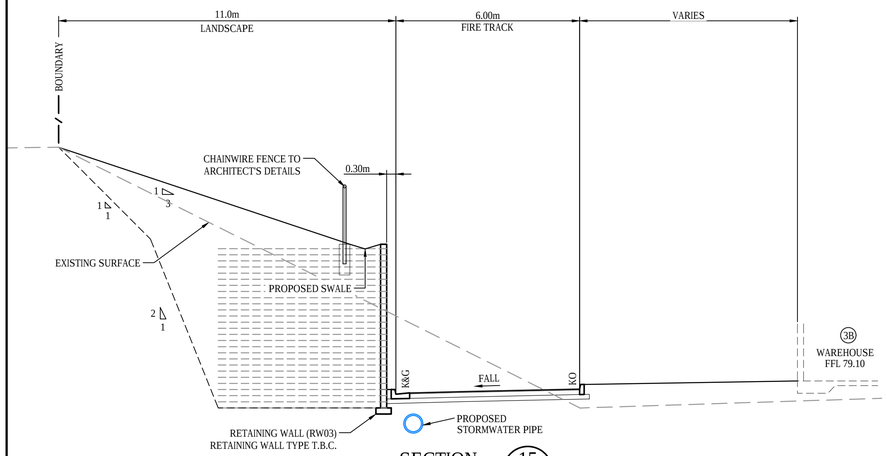
SECTION 12
1 : 100 C1004, C1019



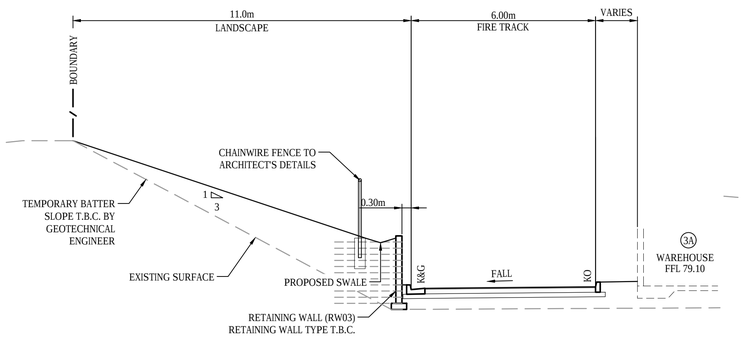
SECTION 13
1 : 100 C1004, C1019



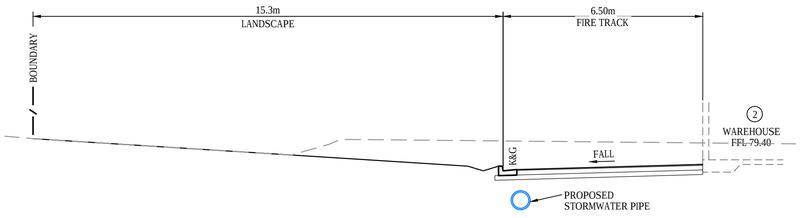
SECTION 14
1 : 100 C1004, C1018



SECTION 15
1 : 100 C1004, C1018



SECTION 16
1 : 100 C1004, C1018



SECTION 17
1 : 100 C1004, C1017

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales	1 : 100
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
TYPICAL SECTIONS SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

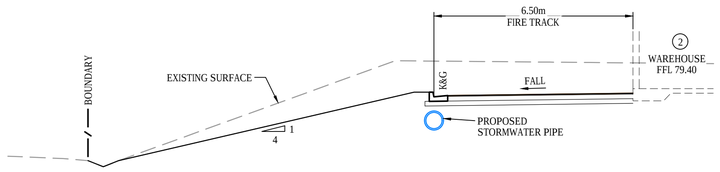
A1

Project No. - Drawing No.: 18-563-C1006

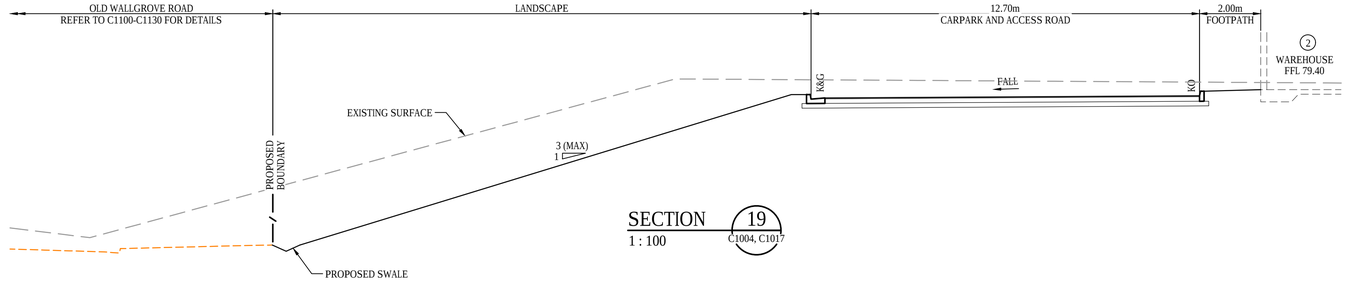
Issue: A

100mm on Original

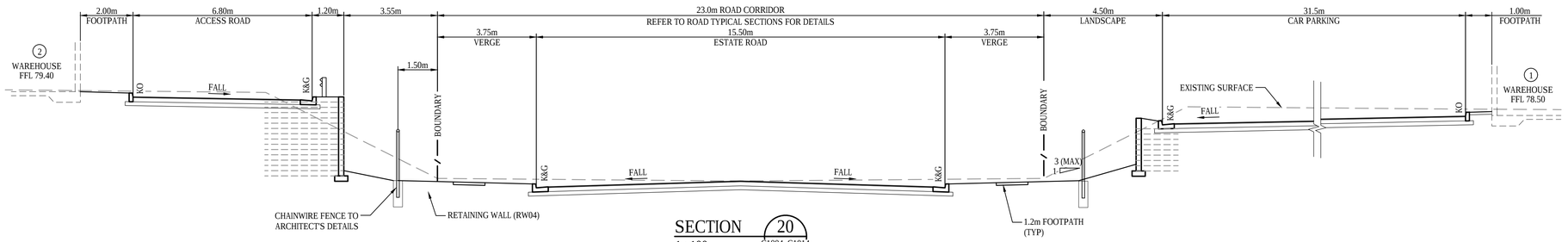
F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1006.dwg



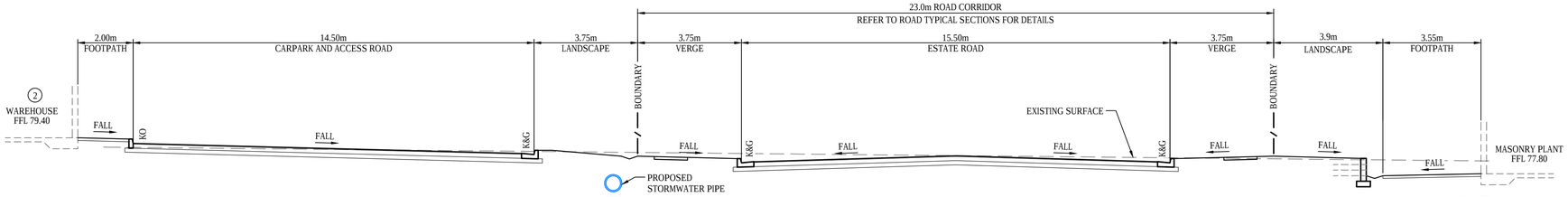
SECTION 18
1 : 100 C1004, C1017



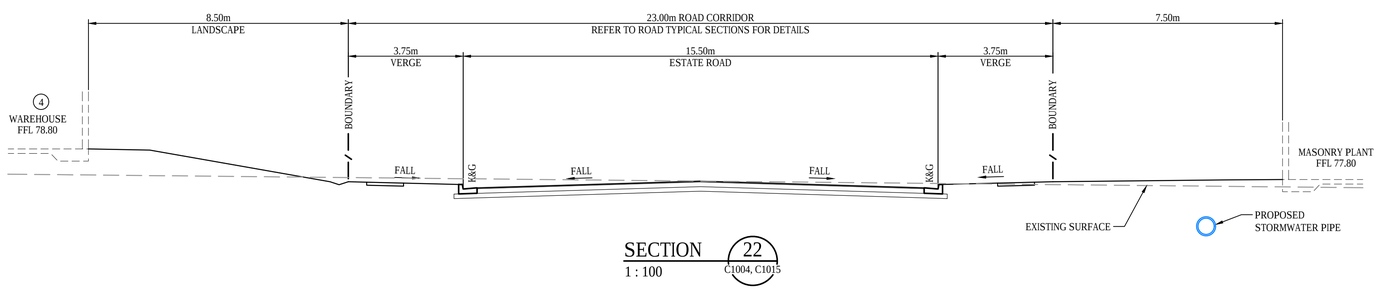
SECTION 19
1 : 100 C1004, C1017



SECTION 20
1 : 100 C1004, C1014



SECTION 21
1 : 100 C1004, C1015



SECTION 22
1 : 100 C1004, C1015

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales: 1 : 100
Grid: MGA
Height Datum: AHD

Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
TYPICAL SECTIONS SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

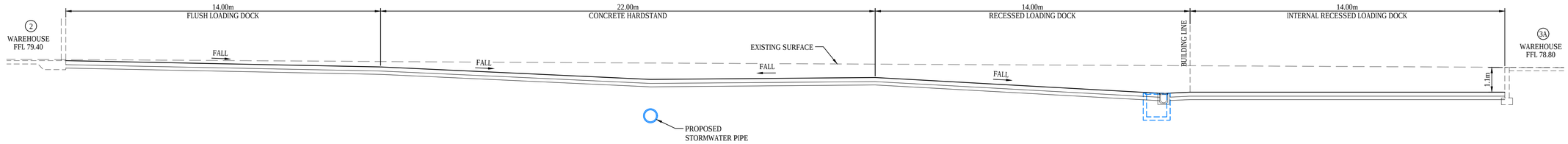
A1

Project No. - Drawing No.: 18-563-C1007

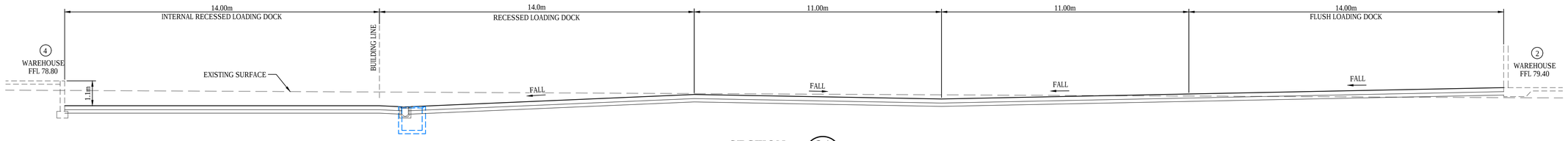
Issue: A

100mm on Original

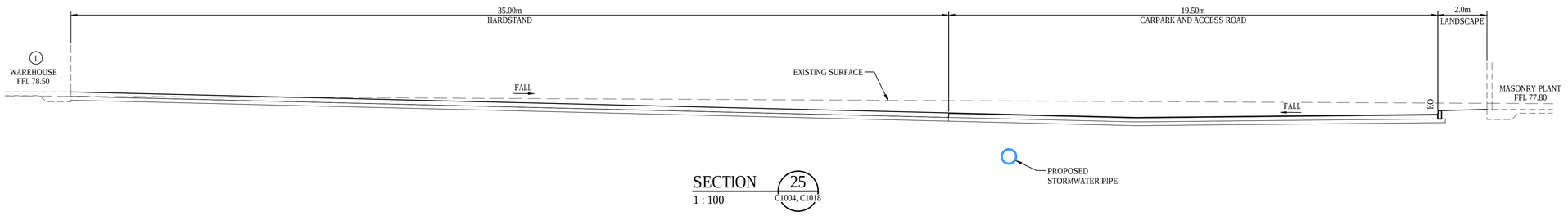
F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1007.dwg



SECTION 23
1 : 100
C1004, C1017, C1018



SECTION 24
1 : 100
C1004, C1018



SECTION 25
1 : 100
C1004, C1018

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

Goodman

Scales	1 : 100
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

TYPICAL SECTIONS SHEET 4

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

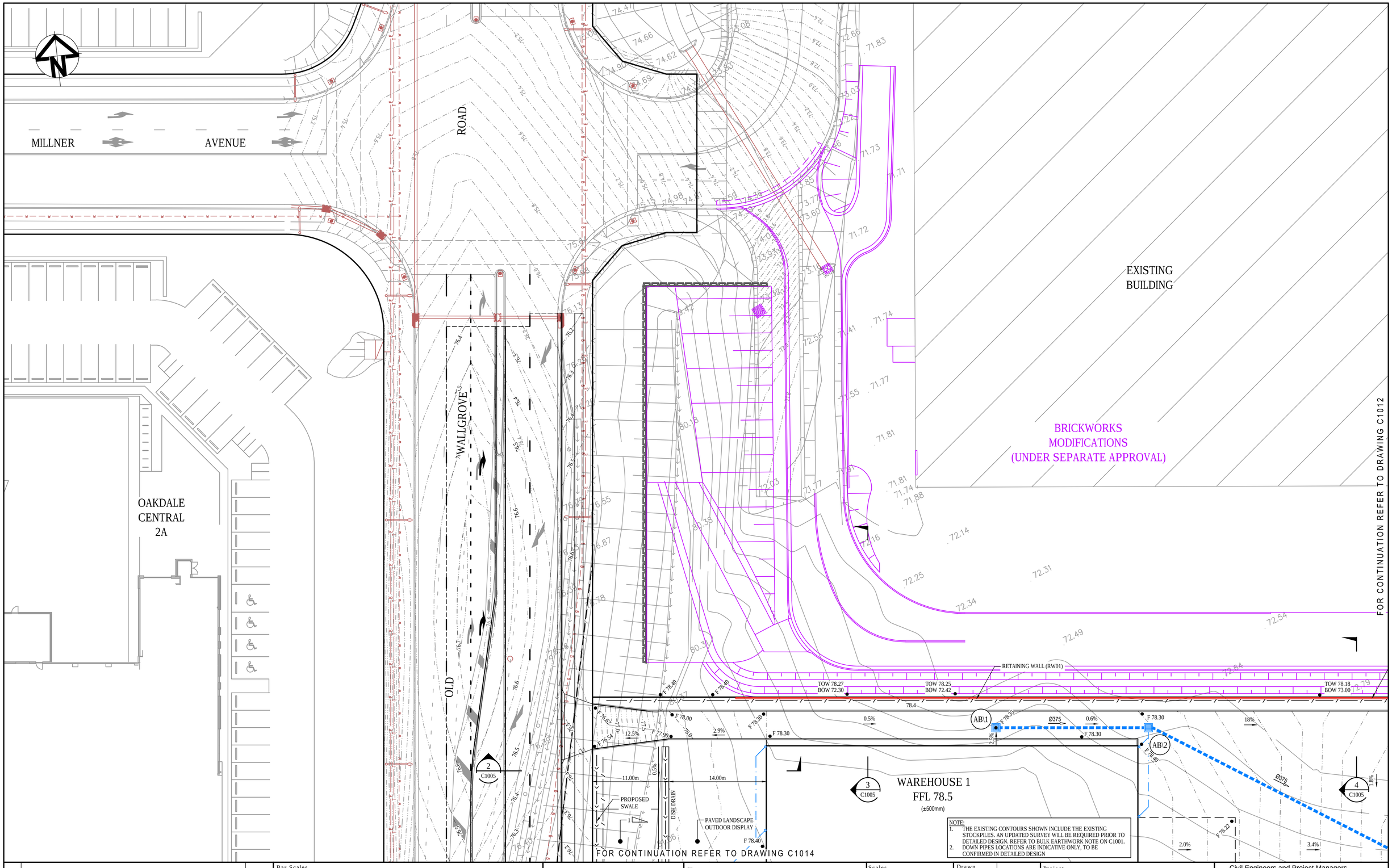
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1008

Issue
A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1008.dwg



NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.
2. DOWN PIPES LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED IN DETAILED DESIGN

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
SITEWORKS AND STORMWATER PLAN
SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1011

Issue: A

100mm on Original

\\atlserver2\projects\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1011.dwg

BRICKWORKS
MODIFICATIONS
(UNDER SEPARATE APPROVAL)

BRICKWORKS
MODIFICATIONS
(UNDER SEPARATE APPROVAL)

TOW 78.00
BOW 77.17

TOW 78.08
BOW 78.08

TOW 77.95
BOW 75.70

TOW 77.80
BOW 75.00

TOW 77.78
BOW 72.84

TOW 77.83
BOW 73.50

TOW 77.70
BOW 74.00

2.00m

6
C1005

7
C1005

5
C1005

BC\1
BC\2
BD\1
BD\2
BA\1
BA\2
BA\3
BA\4
AB\3

Ø375
Ø450
Ø525
Ø600
Ø675

0.5%
0.6%
0.9%

91.50m
20.00m

RETAINING WALL (RW01)

STOCKPILE

BIN

NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.
2. DOWN PIPES LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED IN DETAILED DESIGN

FOR CONTINUATION REFER TO DRAWING C1011

FOR CONTINUATION REFER TO DRAWING C1013

FOR CONTINUATION REFER TO DRAWING C1015

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

SITEWORKS AND STORMWATER PLAN SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1012

Issue
A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1012.dwg

BRICKWORKS
MODIFICATIONS
(UNDER SEPARATE APPROVAL)

N

F 78.08

82.69

84.24

F 78.08

8
C1005

76.64

83.67

83.86

84.06

84.39

84.79

84.64

85.44

85.38

83.64

85.24

85.60

85.42

85.43

85.77

86.15

86.22

74.77

74.28

74.91

75.83

75.89

75.26

83.69

82.97

82.07

74.19

73.73

73.83

73.46

73.33

ELECTRICAL
EASEMENT

STOCKPILE

EXISTING BATTERS
(NOT PART OF THIS APPROVAL)

85.52

85.17

87.02

85.40

84.40

86.31

86.65

73.06

77.25

84.13

86.53

76.94

76.29

91.05

76.15

75.73

75.31

75.48

75.15

74.80

74.18

74.26

85.11

91.69

91.79

91.74

91.89

82.54

73.38

73.03

80.38

71.73

71.41

BC\3
BC\4
BC\5
BD\3
BA\5
BA\6

0.5%
Ø450
0.6%
F 77.89
F 77.99
F 77.87
77.9
77.8
77.7
77.6
77.5
77.4
0.5%
Ø450
F 77.69
F 77.79
F 77.67
82.24
82.48
82.19
82.86
0.9%
0.9%
Ø600
F 77.51
F 77.61
F 77.49
F 77.58
V5.66
82.40
0.5%
81.87
F 77.33
0.5%
Ø750
F 77.43
9
C1005
0.6%
F 77.31
0.5%

NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.
2. DOWN PIPES LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED IN DETAILED DESIGN

FOR CONTINUATION REFER TO DRAWING C1012

FOR CONTINUATION REFER TO DRAWING C1016

Issue	Description	Date
B	FOR APPROVAL	25-10-19
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title

SITEWORKS AND STORMWATER PLAN
SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

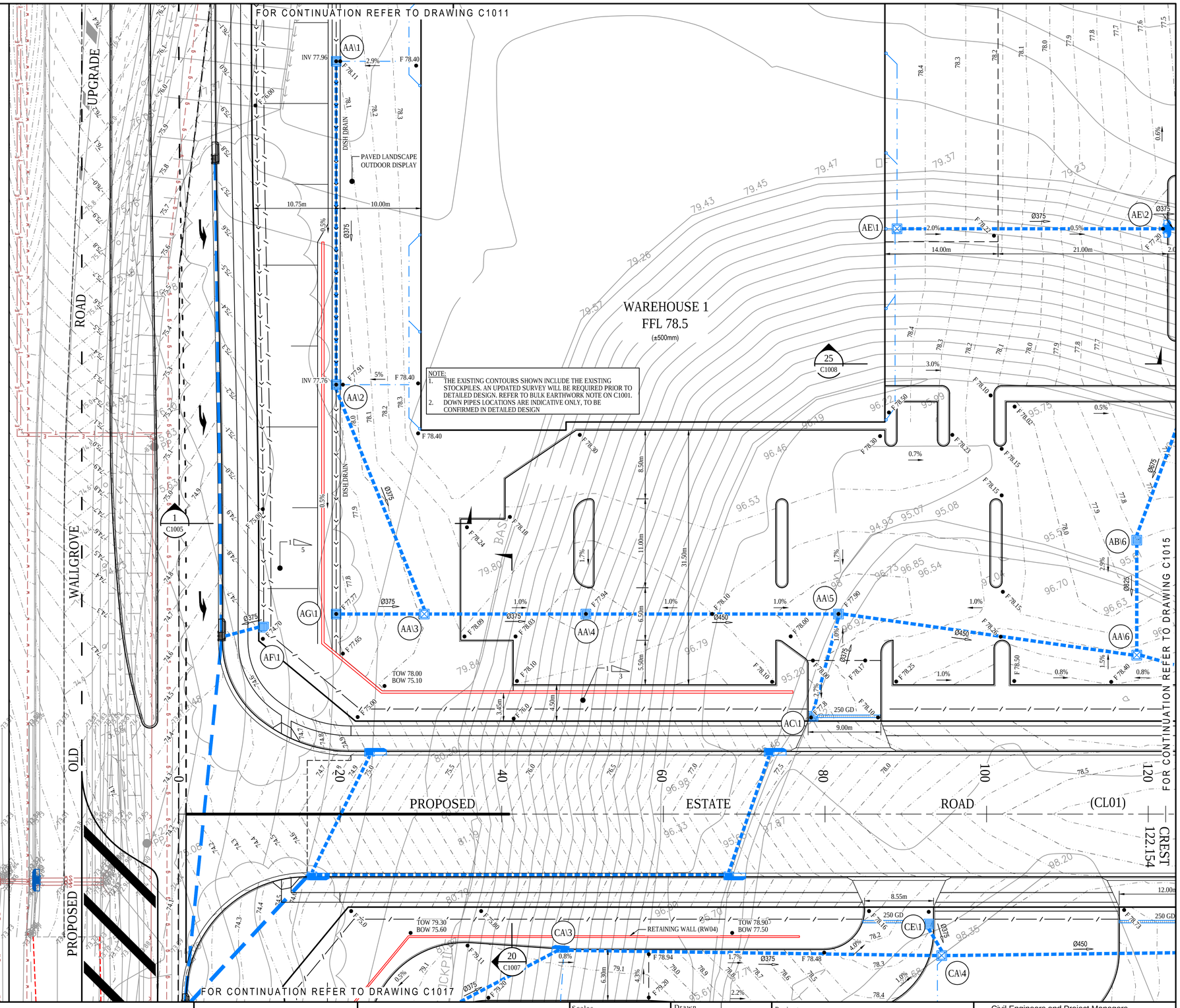
Project No. - Drawing No.
18-563-C1013

Issue
B

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1013.dwg

OAKDALE
CENTRAL
2A



Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: SITEWORKS AND STORMWATER PLAN SHEET 4

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1014

Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1014.dwg

FOR CONTINUATION REFER TO DRAWING C1012

FOR CONTINUATION REFER TO DRAWING C1014

FOR CONTINUATION REFER TO DRAWING C1016

FOR CONTINUATION REFER TO DRAWING C1018

NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.
2. DOWN PIPES LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED IN DETAILED DESIGN

MASONRY PLANT
FFL 77.8
(±500mm)

PROPOSED ESTATE ROAD (CL01)

STOCKPILE

BASE

A	FOR APPROVAL	08-03-18
Issue	Description	Date

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: SITEWORKS AND STORMWATER PLAN SHEET 5

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1015

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1015.dwg

FOR CONTINUATION REFER TO DRAWING C1013

NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.
2. DOWN PIPES LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED IN DETAILED DESIGN

FOR CONTINUATION REFER TO DRAWING C1015

FOR CONTINUATION REFER TO DRAWING C1020

FOR CONTINUATION REFER TO DRAWING C1019

PROPOSED ESTATE ROAD (CL01)

CH400.689

PROVIDE STEEL PLATE AT OUTLET PIPE 'A7-A8' FOR FUTURE CONNECTION

ELECTRICAL EASEMENT

Issue	Description	Date
B	FOR APPROVAL	25-10-19
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: SITEWORKS AND STORMWATER PLAN SHEET 6

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1016

Issue: B

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1016.dwg

FOR CONTINUATION REFER TO DRAWING C1014

OAKDALE CENTRAL 2A

FUTURE SOUTHERN LINK ROAD DENOTED IN (ORANGE)

ACCESS ROAD BY CSR DENOTED IN (RED)

WALLGROVE ROAD

UPGRADE

OLD

PROPOSED

NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.
2. DOWN PIPES LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED IN DETAILED DESIGN

WAREHOUSE 2
FFL 79.40
(±500mm)

1.1m INTERNAL RECESSED LOADING DOCK

19 C1007

23 C1008

18 C1007

17 C1006

CA\2 CA\1 CB\1 CD\1 CD\2 CD\3 CD\4 CD\5 CD\6 CD\7 CD\8

RETAINING WALL (RW02)
MAX HEIGHT 2.6m

RETAINING WALL (RW03)

TOW 79.20
BOW 79.20

EX 81.00

FOR CONTINUATION REFER TO DRAWING C1018

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
SITEWORKS AND STORMWATER PLAN
SHEET 7

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1017

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1017.dwg

FOR CONTINUATION REFER TO DRAWING C1015

FOR CONTINUATION REFER TO DRAWING C1017

FOR CONTINUATION REFER TO DRAWING C1019

NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.
2. DOWN PIPES LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED IN DETAILED DESIGN

WAREHOUSE 3A
FFL 79.10
(±500mm)

WAREHOUSE 3B
FFL 79.10
(±500mm)

WAREHOUSE 4
FFL 78.80
(±500mm)

1.1m INTERNAL RECESSED LOADING DOCK

1.1m INTERNAL RECESSED LOADING DOCK

1.1m INTERNAL RECESSED LOADING DOCK

CC\1

DC\1

DA\5

DA\4

DA\3

DA\2

DA\1

DB\1

23 C1008

24 C1008

16 C1006

15 C1006

14 C1006

TOW 81.45
BOW 79.20

RETAINING WALL (RW03)
MAX HEIGHT 9m

TOW 85.16
BOW 78.85

STOCKPILE

RETAINING WALL (RW03)
MAX HEIGHT 9m

TOW 86.61
BOW 78.38

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
SITEWORKS AND STORMWATER PLAN
SHEET 8

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1018

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1018.dwg

FOR CONTINUATION REFER TO DRAWING C1016

NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.
2. DOWN PIPES LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED IN DETAILED DESIGN

FOR CONTINUATION REFER TO DRAWING C1018

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
SITEWORKS AND STORMWATER PLAN
SHEET 9

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

Project No. - Drawing No.
18-563-C1019

Issue
A

FOR CONTINUATION REFER TO DRAWING C1016

FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER ABOVE

STOCKPILE

LOCALISED FILL OVER PROPOSED STORMWATER PIPE

LOCALISED FILL OVER PROPOSED STORMWATER PIPE

PROPOSED SCOUR PROECTION

A\11 A\12 A\13 A\14 A\15 A\16 A\17

Ø1350 Ø1350 Ø1650 Ø1650 Ø1800 Ø1650 Ø1650

2.0m 2.0m

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

SITEWORKS AND STORMWATER PLAN SHEET 10

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

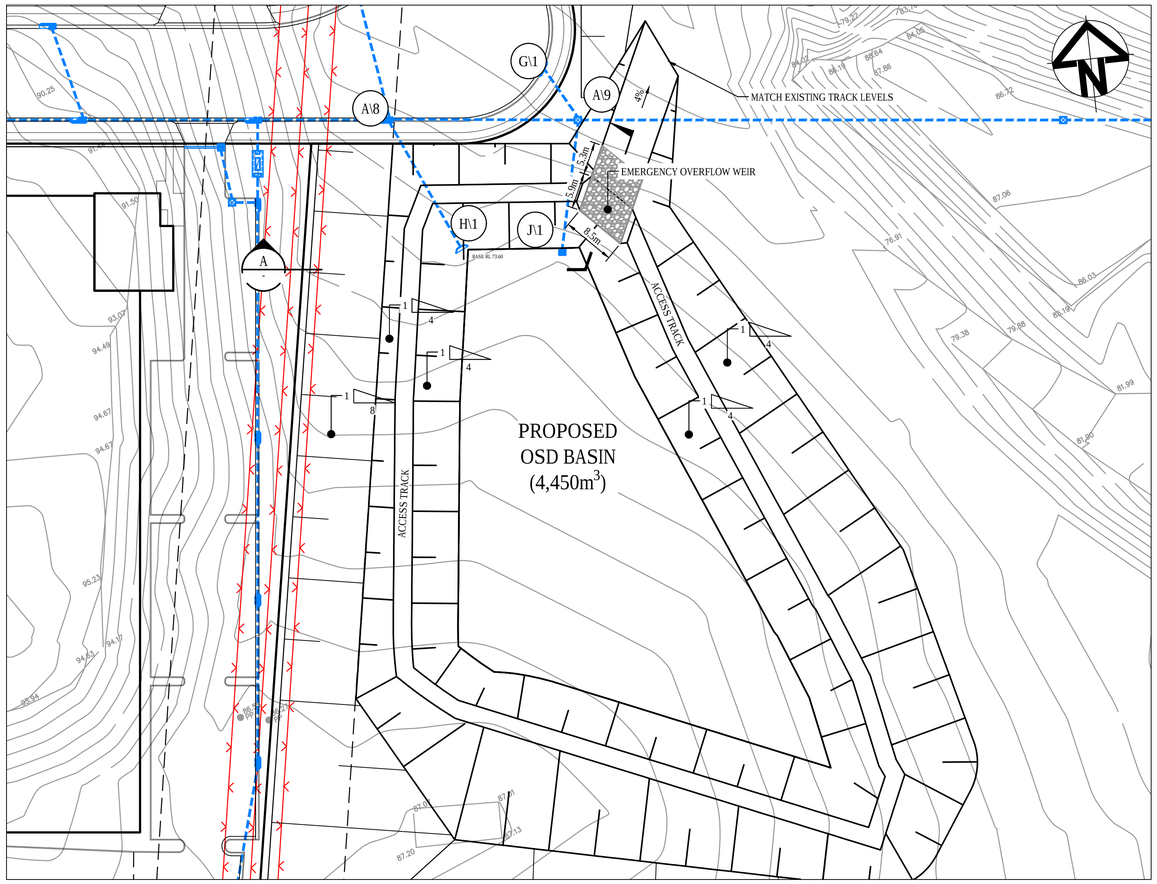
A1

Project No. - Drawing No.: 18-563-C1020

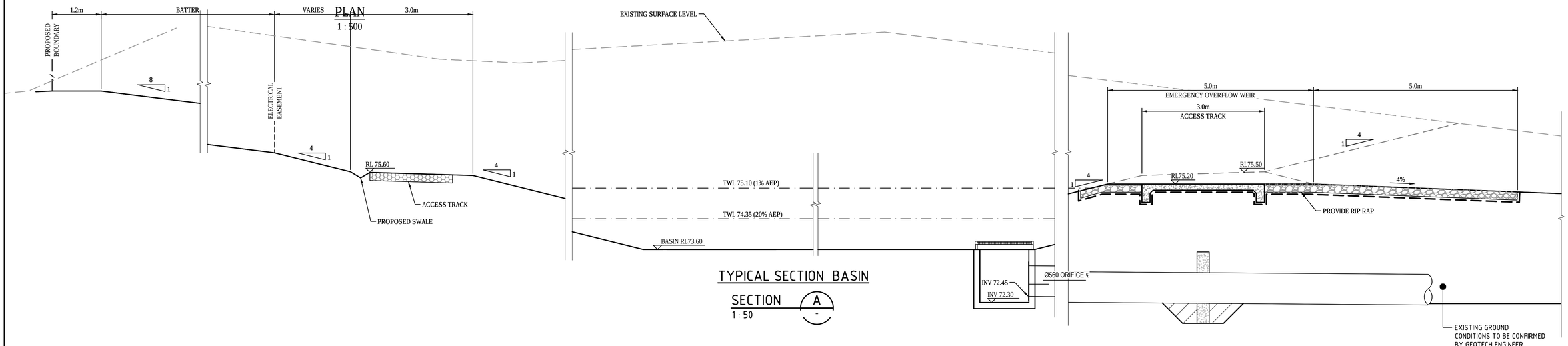
Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1020.dwg



PLAN
1 : 500



TYPICAL SECTION BASIN

SECTION A
1 : 50

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client

Goodman

Scales		Drawn	FX
AS SHOWN		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title

ONSITE DETENTION BASIN
PLAN AND DETAILS

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1025

Issue
A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1025.dwg

PAVEMENT LEGEND

NEW ROAD PAVEMENT 1
35mm THICKNESS AC14 320 ON
35mm THICKNESS AC14 320 ON
7mm THICKNESS PRIME SEAL ON
250mm THICKNESS DGB20 SUBBASE (PLACED IN 2 LAYERS) ON
500mm THICKNESS SELECT SANDSTONE FILL MIN. CBR = 35% (PLACED IN 3 LAYERS)

NOTE: IF SUBGRADE CBR > 5% THEN BOTTOM 200mm LAYER OF SELECT SANDSTONE FILL CAN BE REPLACED WITH SELECT FILL CBR = 5% MIN.

DRIVEWAY PAVEMENT
200mm THICKNESS CONCRETE (SL82 MESH 40 TOP COVER MIN.) ON
150mm THICKNESS DGB20 COMPACTED SUBBASE

NOTE: REFER FAIRFIELD CITY COUNCIL STANDARD DWG S-1 FOR JOINTING DETAILS

FOOTPATH PAVEMENT
125mm THICKNESS CONCRETE (SL72 MESH 30 TOP COVER MIN.) ON
25mm THICKNESS SAND BEDDING

NOTE: REFER FAIRFIELD CITY COUNCIL STANDARD DWG S-501 FOR JOINTING DETAILS

HARDSTAND
TO BE CONFIRMED AT DETAILED DESIGN

CAR PARK
TO BE CONFIRMED AT DETAILED DESIGN

PAVERS
TO BE CONFIRMED AT DETAILED DESIGN

OUTDOOR DISPLAY AREA
PAVERS AND LANDSCAPING TO BE CONFIRMED AT DETAILED DESIGN

FIRE TRACK
TO BE CONFIRMED AT DETAILED DESIGN

MAINTENANCE TRACK
2 COAT SEAL ON
200mm THICKNESS COMPACTED DGB20

LANDSCAPING
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

TURF LANDSCAPING
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

SPRAY SEED LANDSCAPING
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

MILLNER AVENUE

UPGRADE

ROAD

WALLGROVE

OLD

EXISTING BUILDING

BRICKWORKS MODIFICATIONS (UNDER SEPARATE APPROVAL)

OAKDALE CENTRAL 2A

WAREHOUSE 1
FFL 78.5
(±500mm)

MASONRY PLANT
FFL 77.8
(±500mm)

FOR CONTINUATION REFER TO DRAWING C1031

FOR CONTINUATION REFER TO DRAWING C1032

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 8 16 24 32 40m
8 6 4 2
1 : 400 @ A1 1 : 800 @ A3

Client: Goodman

Scales	1 : 500
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: PAVEMENT PLAN SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

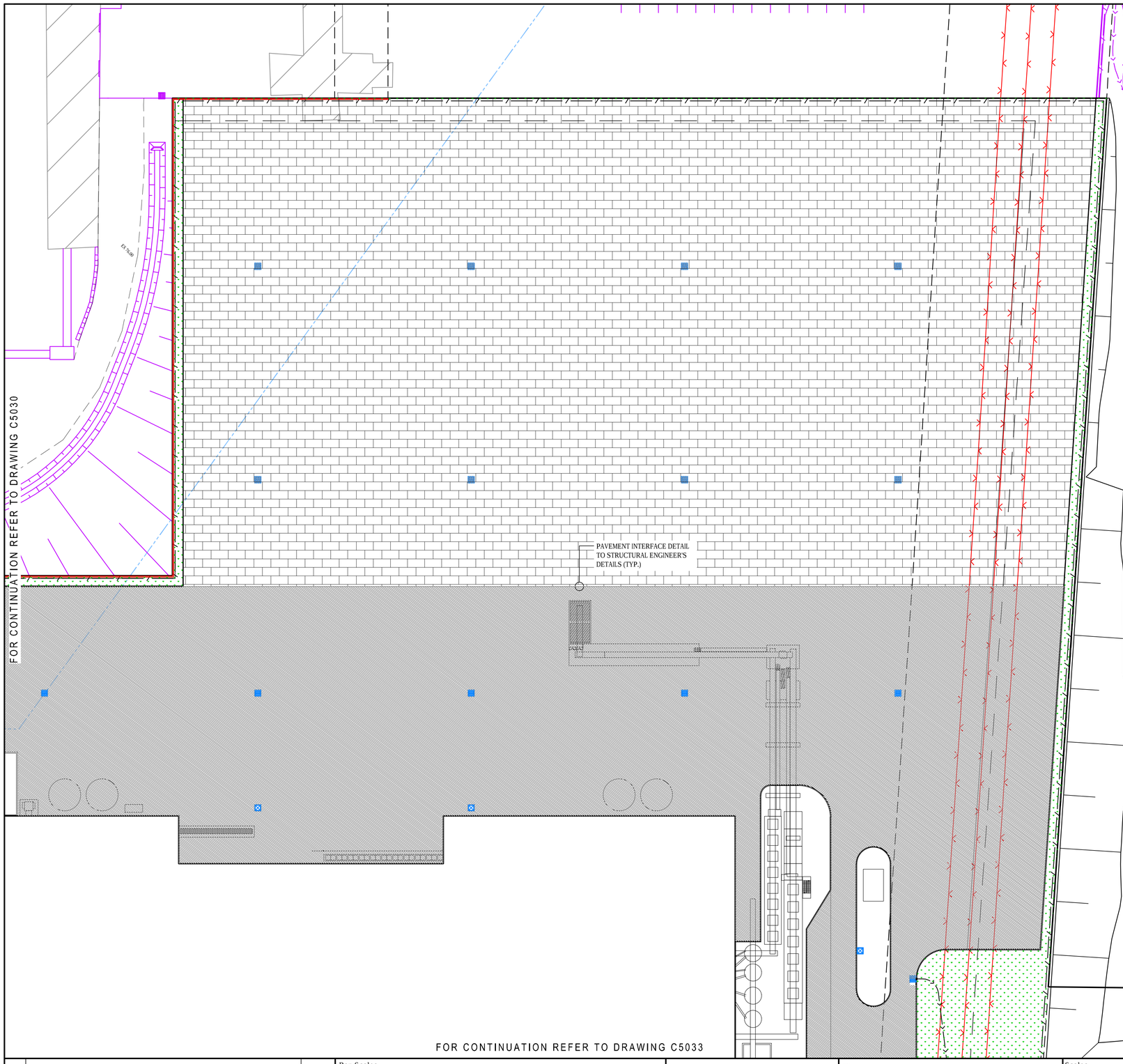
A1

Project No. - Drawing No.: 18-563-C1030

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1030.dwg



PAVEMENT LEGEND

HEAVY DUTY RIGID PAVEMENT
180mm THICK CONCRETE (32MPa) WITH SL92 MESH (TOP) 40mm COVER ON
100mm DGB20 BASE ON
COMPACTED SUBGRADE (ASSUMED CBR 3%)
PAVEMENT BUILD UP AND JOINTING DETAILS TO BE CONFIRMED AT DETAILED DESIGN BY STRUCTURAL ENGINEERS

ASPHALT PAVEMENT
30mm AC10 ON
PRIMER SEAL ON
100mm DGB20 ON
200mm DGS40 ON
COMPACTED SUBGRADE (ASSUMED CBR 3%)

PAVERS
80mm CONCRETE INTERLOCKING PAVERS TO BE SUPPLIED BY AUSTRAL ON
25mm SAND BEDDING ON
210mm BASE COURSE (DGB20) MODIFIED WITH 2% GB CEMENT ON
150mm GRANULAR SUBBASE COURSE (MIN. CBR 35) ON
COMPACTED SUBGRADE (ASSUMED CBR 3%)
PAVEMENT BUILD UP AND JOINTING DETAILS TO BE CONFIRMED AT DETAILED DESIGN BY STRUCTURAL ENGINEERS
ASSUMED ESA 2 x 10^7

FOOTPATH PAVEMENT
125mm THICKNESS CONCRETE (SL72 MESH 30 TOP COVER MIN.) ON
25mm THICKNESS SAND BEDDING
COMPACTED SUBGRADE

FIRE TRAIL PAVEMENT
7mm PRIME AND SEAL ON
200mm DGB20 BASE ON
COMPACTED SUBGRADE (ASSUMED CBR 3%)

DRIVEWAY PAVEMENT
200mm THICKNESS CONCRETE (SL82 MESH 40 TOP COVER MIN.) ON
150mm THICKNESS DGB20 COMPACTED SUBBASE
COMPACTED SUBGRADE (ASSUMED CBR 3%)
NOTE: REFER FAIRFIELD CITY COUNCIL STANDARD DWG S-1 FOR JOINTING DETAILS

OUTDOOR DISPLAY AREA
PAVERS AND LANDSCAPING TO BE CONFIRMED AT DETAILED DESIGN

LANDSCAPING
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

Issue	Description	Date
B	FOR APPROVAL	25-10-19
A	FOR APPROVAL	08-03-18

Bar Scales

0 8 16 24 32 40m
8 6 4 2
1 : 400 @ A1 1 : 800 @ A3

Client: Goodman

Scales	1 : 500
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
PAVEMENT PLAN
SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1031

Issue
B

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1031.dwg

PAVEMENT LEGEND

NEW ROAD PAVEMENT 1
35mm THICKNESS AC14 320 ON
35mm THICKNESS AC14 320 ON
7mm THICKNESS PRIME SEAL ON
250mm THICKNESS DGB20 SUBBASE (PLACED IN 2 LAYERS) ON
500mm THICKNESS SELECT SANDSTONE FILL MIN.
CBR = 35% (PLACED IN 3 LAYERS)

NOTE: IF SUBGRADE CBR > 5% THEN BOTTOM 200mm LAYER OF SELECT SANDSTONE FILL CAN BE REPLACED WITH SELECT FILL CBR = 5% MIN.

DRIVEWAY PAVEMENT
200mm THICKNESS CONCRETE (SL82 MESH 40 TOP COVER MIN.) ON
150mm THICKNESS DGB20 COMPACTED SUBBASE

NOTE: REFER FAIRFIELD CITY COUNCIL STANDARD DWG S-1 FOR JOINTING DETAILS

FOOTPATH PAVEMENT
125mm THICKNESS CONCRETE (SL72 MESH 30 TOP COVER MIN.) ON
25mm THICKNESS SAND BEDDING

NOTE: REFER FAIRFIELD CITY COUNCIL STANDARD DWG S-501 FOR JOINTING DETAILS

HARDSTAND
TO BE CONFIRMED AT DETAILED DESIGN

CAR PARK
TO BE CONFIRMED AT DETAILED DESIGN

PAVERS
TO BE CONFIRMED AT DETAILED DESIGN

OUTDOOR DISPLAY AREA
PAVERS AND LANDSCAPING TO BE CONFIRMED AT DETAILED DESIGN

FIRE TRACK
TO BE CONFIRMED AT DETAILED DESIGN

MAINTENANCE TRACK
2 COAT SEAL ON
200mm THICKNESS COMPACTED DGB20

LANDSCAPING
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

TURF LANDSCAPING
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

SPRAY SEED LANDSCAPING
REFER TO LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS

FOR CONTINUATION REFER TO DRAWING C1030

PROPOSED ESTATE ROAD

MASONRY PLANT
FFL 77.8
(±500mm)

WAREHOUSE 2
FFL 79.40
(±500mm)

WAREHOUSE 3A
FFL 79.10
(±500mm)

UPGRADE

ROAD

WALLGROVE

OLD

PROPOSED

ACCESS ROAD BY CSR DENOTED IN (RED)

FUTURE SOUTHERN LINK ROAD DENOTED IN (ORANGE)

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 8 16 24 32 40m
8 6 4 2
1 : 400 @ A1 1 : 800 @ A3

Client: Goodman

Scales	1 : 500	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
PAVEMENT PLAN SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1032

Issue
A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1032.dwg

FOR CONTINUATION REFER TO DRAWING C1030

MASONRY PLANT
FFL 77.8
(±500mm)

PROPOSED ESTATE ROAD

WAREHOUSE 3B
FFL 79.10
(±500mm)

WAREHOUSE 4
FFL 78.80
(±500mm)

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 8 16 24 32 40m
8 6 4 2
1 : 400 @ A1 1 : 800 @ A3

Client

Goodman

Scales	1 : 500	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
PAVEMENT PLAN SHEET 4

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1033

Issue
A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1033.dwg

PROVIDE GEOTEXTILE FILTER FABRIC WRAP ON ALL PROPOSED TRENCH DRAIN GRATES. (TYP.)

EXISTING SWALES AND HAYBALES TO BE MAINTAINED UNTIL STORMWATER INLET SEDIMENT TRAPS ARE CONSTRUCTED (TYP.)

EXISTING SEDIMENT BASIN TO BE MAINTAINED AND FLOCCULATED AS REQUIRED.

FOR CONTINUATION REFER TO DRAWING C5035

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE

SEDIMENT & EROSION BASIN 1 CALCULATION

VOLUME=
SETTLING ZONE AND SEDIMENT STORAGE ZONE
TYPE D SOIL
SETTLING ZONE = 10xCvxAxR (80%ile,5 day)
Cv = 0.56
A= 5.598 Ha
R= 25.8mm
= 10x0.56x5.598x25.8
= 809m^3
SEDIMENT ZONE = 0.5 x SETTLING ZONE
= 0.5 x 809
= 405m^3
TOTAL VOLUME
REQUIRED = 1,214m^3

NOTES:

1. FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER DWG C1039
2. FOR EROSION AND SEDIMENTATION CONTROL NOTES REFER DWG C1001
3. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, SOIL AND CONSTRUCTION VOLUME 1 (2004) BY LANDCOM.
4. ALL SEDIMENT BASINS TO BE FLOCCULATED AFTER EACH STORM, WATER QUALITY TO BE TESTED AND APPROVED PRIOR TO PUMP OUT

Issue	Description	Date
B	FOR APPROVAL	25-10-19
A	FOR APPROVAL	08-03-18

Bar Scales

0 8 16 24 32 40m
8 6 4 2
1 : 400 @ A1 1 : 800 @ A3

Client: Goodman

Scales	1 : 500	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: EROSION AND SEDIMENT CONTROL PLAN SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1036

Issue: B

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1036.dwg

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE

SEDIMENT & EROSION BASIN 2 CALCULATION

VOLUME=
SETTLING ZONE AND SEDIMENT STORAGE ZONE
TYPE D SOIL
SETTLING ZONE = 10xCvxAxR (80%ile,5 day)
Cv = 0.56
A= 2.556 Ha
R= 25.8mm
= 10x0.56x2.556x25.8
= 330m³
SEDIMENT ZONE = 0.5 x SETTLING ZONE
= 0.5 x 330
= 165m³
TOTAL VOLUME
REQUIRED = 495m³

NOTES:

1. FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER DWG C1039
2. FOR EROSION AND SEDIMENTATION CONTROL NOTES REFER DWG C1001
3. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, SOIL AND CONSTRUCTION VOLUME 1 (2004) BY LANDCOM.
4. ALL SEDIMENT BASINS TO BE FLOCCULATED AFTER EACH STORM, WATER QUALITY TO BE TESTED AND APPROVED PRIOR TO PUMP OUT

OAKDALE CENTRAL 2A

FOR CONTINUATION REFER TO DRAWING C1035

FUTURE SOUTHERN LINK ROAD DENOTED IN (ORANGE)
ACCESS ROAD BY CSR DENOTED IN (RED)
EXTENSION
WALLGROVE ROAD
OLD
PROPOSED

PROPOSED ESTATE ROAD

MASONRY PLANT
BEL 77.5
(±500mm)

WAREHOUSE 2
BEL 79.10
(±500mm)

WAREHOUSE 3A
BEL 78.80
(±500mm)

INV 77.752
INV 78.036
INV 77.718
INV 78.64
INV 78.539
0.2% MIN
PROVIDE CATCH DRAIN (TYP.)
HAYBALE AND GEOTEXTILE SEDIMENT FILTER AT 30m SPACING (TYP.)

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 8 16 24 32 40m
8 6 4 2
1 : 400 @ A1 1 : 800 @ A3

Client: Goodman

Scales	1 : 500
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: EROSION AND SEDIMENT CONTROL PLAN SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1037

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1037.dwg

FOR CONTINUATION REFER TO DRAWING C1036

MASONRY PLANT
BEL 77.5
(±500mm)

PROVIDE CATCH DRAIN (TYP.)

0.2% MIN

PROPOSED ESTATE ROAD

INV 77.28

SEDIMENT BASIN 2
CATCHMENT AREA = 2.556Ha
BASIN SURFACE AREA = 250m²
DEPTH OF SETTLING ZONE = 600mm
SETTLING ZONE VOLUME = 355m³
SEDIMENT STORAGE VOLUME = 178m³
TOTAL BASIN VOLUME = 533m³

SEDIMENT BASIN 3
CATCHMENT AREA = 2.089Ha
BASIN SURFACE AREA = 228m²
DEPTH OF SETTLING ZONE = 600mm
SETTLING ZONE VOLUME = 330m³
SEDIMENT STORAGE VOLUME = 165m³
TOTAL BASIN VOLUME = 495m³

INV 77.687

WAREHOUSE 3A
BEL 78.80
(±500mm)

WAREHOUSE 4
BEL 78.50
(±500mm)

PROVIDE CATCH DRAIN (TYP.)

HAYBALE AND GEOTEXTILE SEDIMENT FILTER AT 30m SPACING (TYP.)

INV 77.787

INV 77.894

INV 77.894

LEGEND

- SEDIMENT FENCE (SD 6-8)
- CATCH DRAIN
- BARRIER FENCE
- STRAW BALE FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE INLET (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
- PROPOSED SITE ACCESS GATE

SEDIMENT & EROSION BASIN 3 CALCULATION

VOLUME=
SETTLING ZONE AND SEDIMENT STORAGE ZONE
TYPE D SOIL
SETTLING ZONE = 10xCvxAxR (80%ile,5 day)
Cv = 0.56
A= 2.089 Ha
R= 25.8mm
= 10x0.56x2.089x25.8
= 302m³
SEDIMENT ZONE = 0.5 x SETTLING ZONE
= 0.5 x 302
= 151m³
TOTAL VOLUME
REQUIRED = 453m³

NOTES:

1. FOR EROSION AND SEDIMENTATION CONTROL DETAILS REFER DWG C1039
2. FOR EROSION AND SEDIMENTATION CONTROL NOTES REFER DWG C1001
3. ALL SEDIMENT AND EROSION CONTROL MEASURES TO BE IN ACCORDANCE WITH 'MANAGING URBAN STORMWATER, SOIL AND CONSTRUCTION VOLUME 1 (2004) BY LANDCOM.
4. ALL SEDIMENT BASINS TO BE FLOCCULATED AFTER EACH STORM, WATER QUALITY TO BE TESTED AND APPROVED PRIOR TO PUMP OUT

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 8 16 24 32 40m
8 6 4 2
1 : 400 @ A1 1 : 800 @ A3

Client: Goodman

Scales	1 : 500	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
EROSION AND SEDIMENT CONTROL PLAN SHEET 4

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

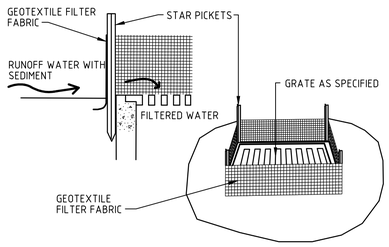
A1

Project No. - Drawing No.: 18-563-C1038

Issue: A

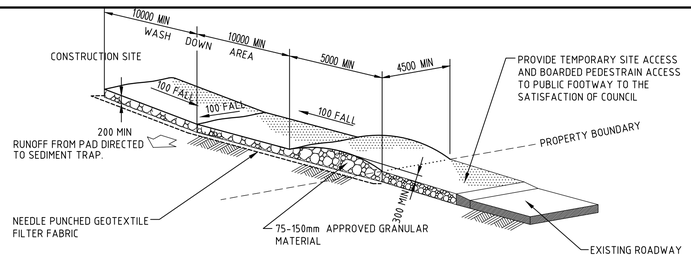
100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1038.dwg



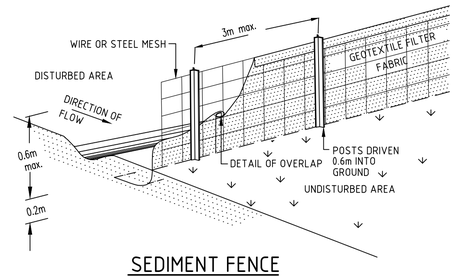
GEOTEXTILE FILTER PIT SURROUND

NTS



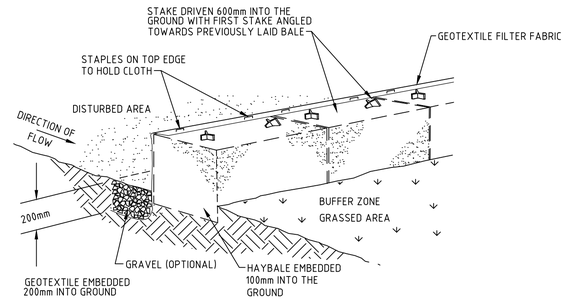
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

NTS



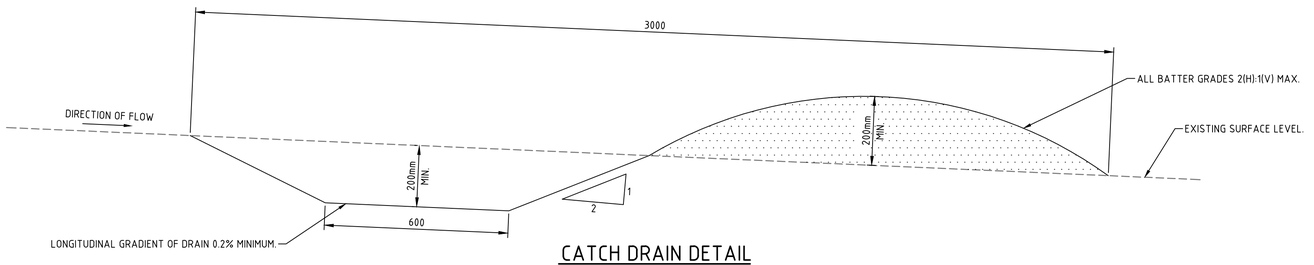
SEDIMENT FENCE

NTS



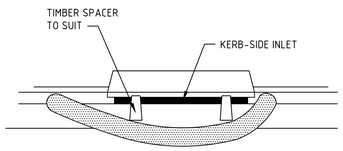
HAYBALE AND GEOTEXTILE SEDIMENT FILTER

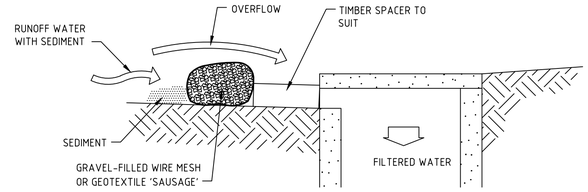
NTS



CATCH DRAIN DETAIL

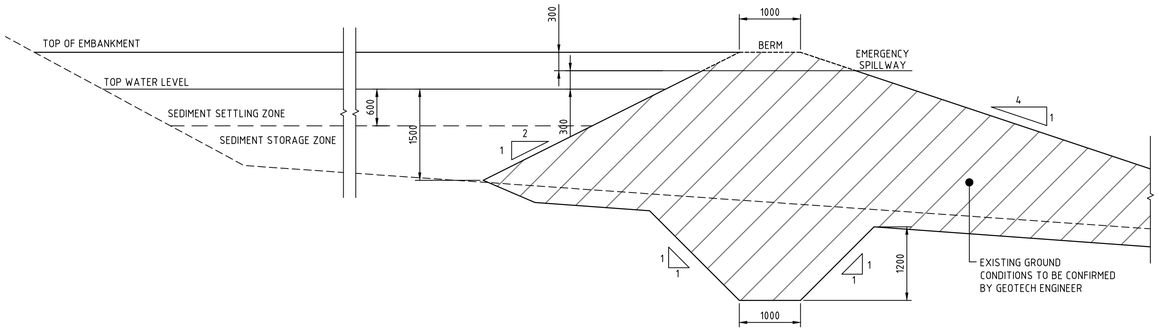
SCALE 1:10





MESH AND GRAVEL INLET FILTER

NTS



SEDIMENT BASIN TYPE 1 TYPICAL CROSS SECTION

1 : 50

TYPICAL FOR ALL ON-LOT SEDIMENT BASINS

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 100 200 400 600 800 1000mm

1 : 10 @ A1 1 : 20 @ A3

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

Client: Goodman

Scales	1 : 50
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: EROSION AND SEDIMENT CONTROL DETAILS

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

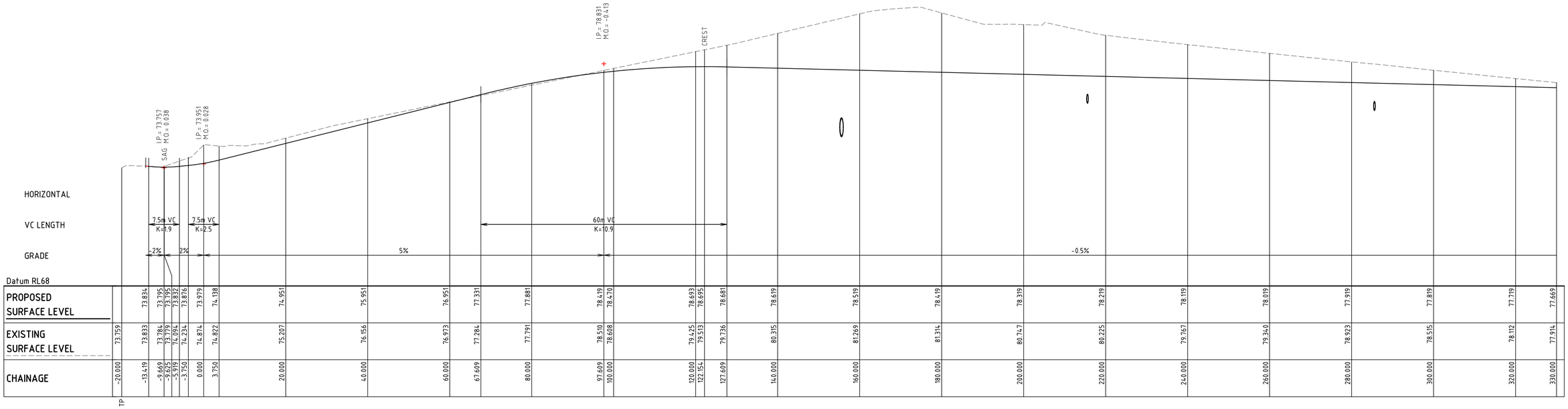
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1039

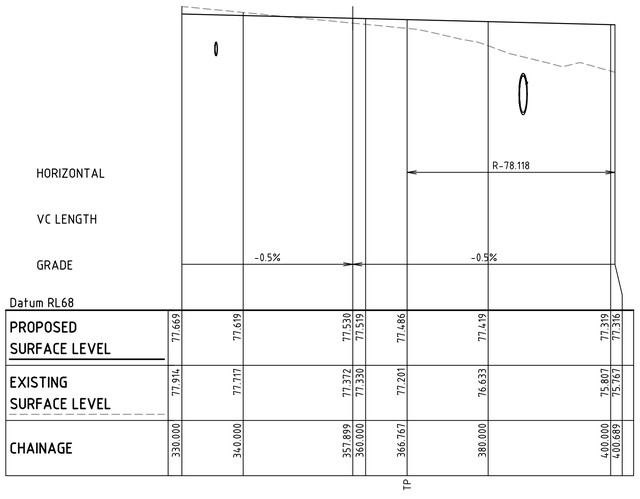
Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1039.dwg



CL01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.



CL01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales	1 :100 V 1 : 500 H	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
ESTATE ROAD (CL01) LONGITUDINAL SECTIONS

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

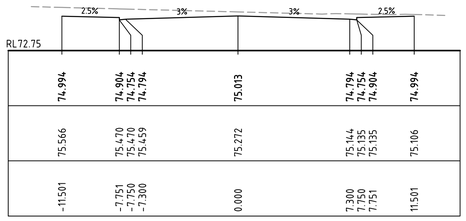
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

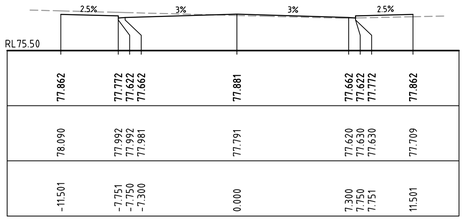
Project No. - Drawing No.: 18-563-C1040

Issue: A

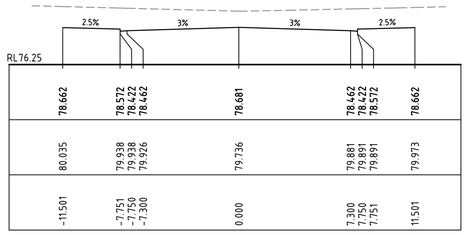
F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1040.dwg



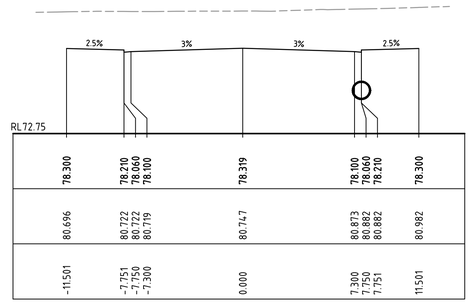
CH 21.243



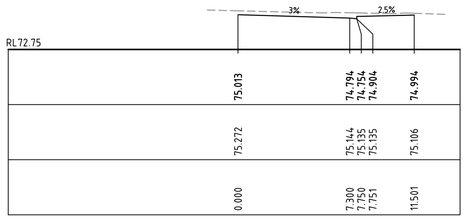
CH 80



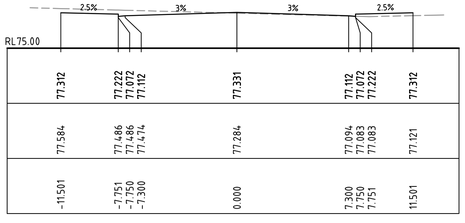
CH 127.609



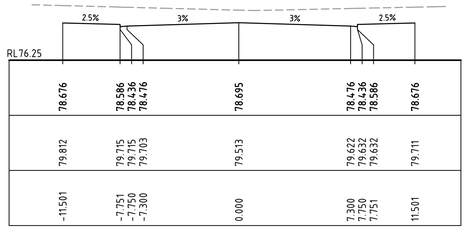
CH 200



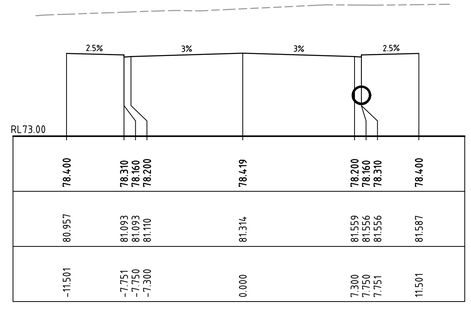
CH 21.243



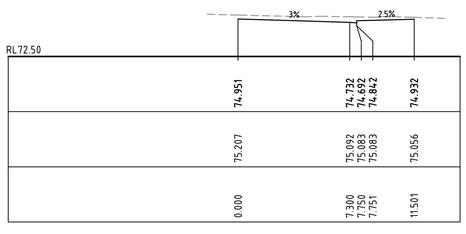
CH 67.609



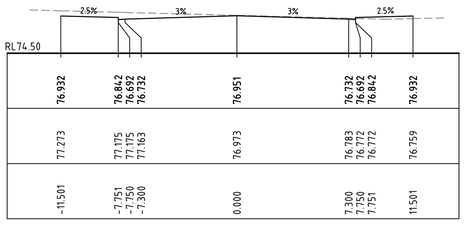
CH 122.154



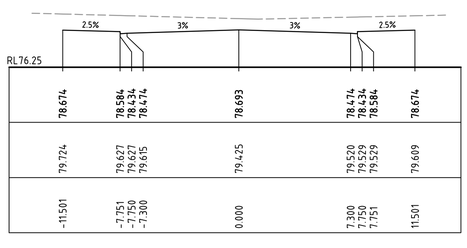
CH 180



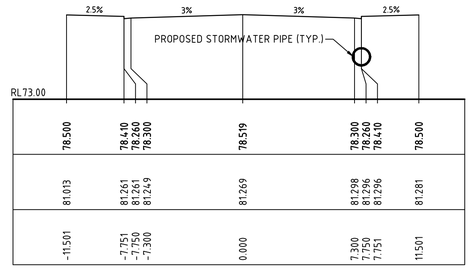
CH 20



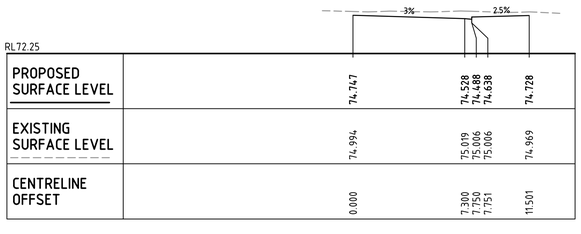
CH 60



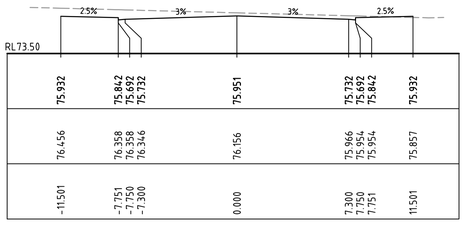
CH 120



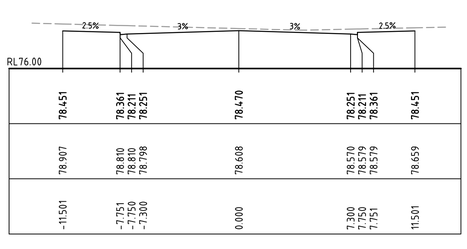
CH 160



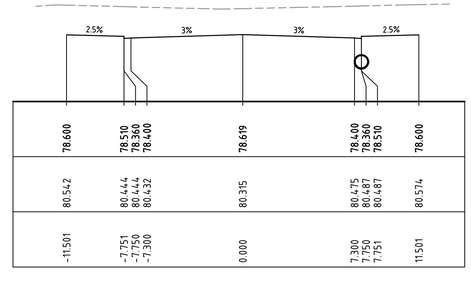
CH 15.931



CH 40



CH 100



CH 140

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 5 10 15 20m

1 : 200 @ A1 1 : 400 @ A3

Client

Goodman

Scales	1 : 200
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

ESTATE ROAD (CL01) CROSS SECTIONS SHEET 1

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

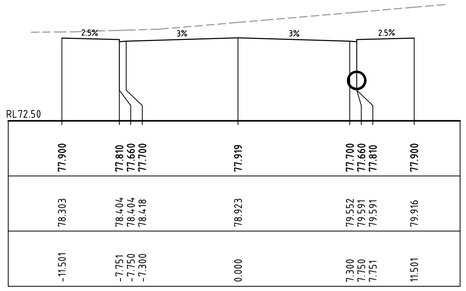
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

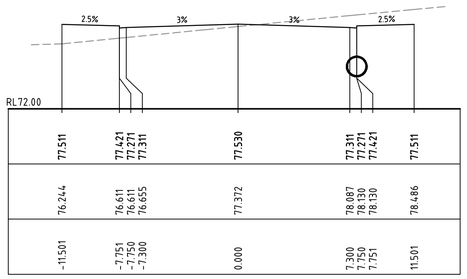
Project No. - Drawing No.: 18-563-C1045

Issue: A

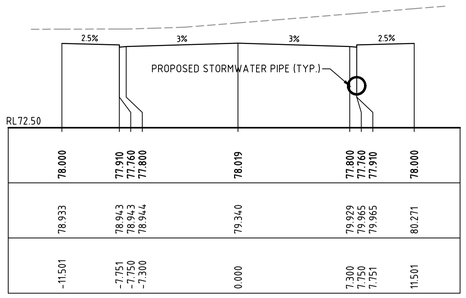
F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1045.dwg



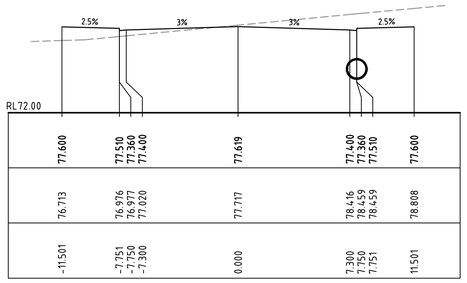
CH 280



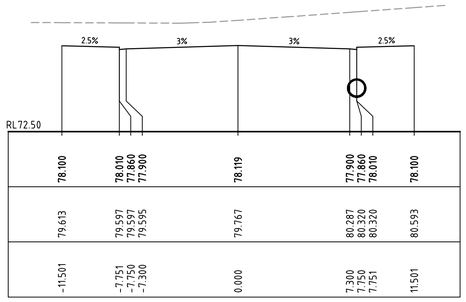
CH 357.899



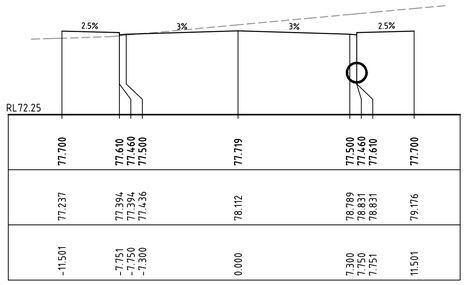
CH 260



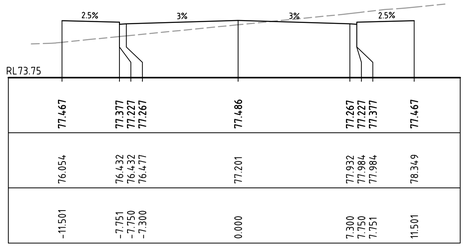
CH 340



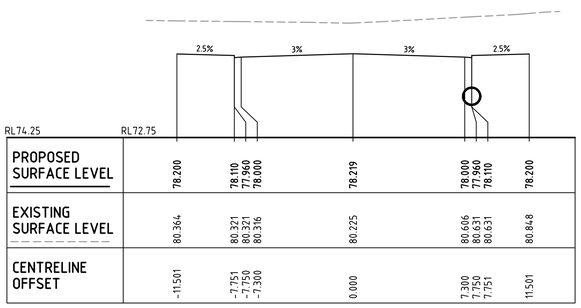
CH 240



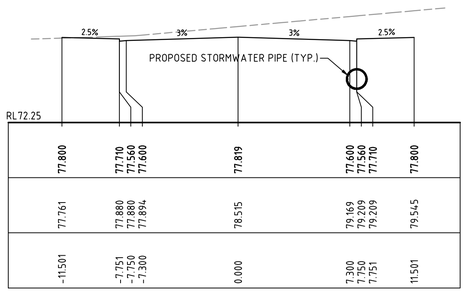
CH 320



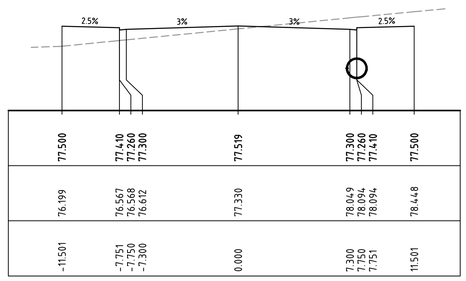
CH 366.767



CH 220



CH 300



CH 360

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20m

1 : 200 @ A1 1 : 400 @ A3

Client

Goodman

Scales	1 : 200
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

ESTATE ROAD (CL01) CROSS SECTIONS SHEET 2

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1046

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1046.dwg

OAKDALE
CENTRAL
2A

OLD WALLGROVE ROAD UPGRADE

WAREHOUSE 1
FFL 78.5
(±500mm)

1
C1003

2
C1003

PROPOSED ESTATE ROAD

WAREHOUSE 2
FFL 79.40
(±500mm)

FOR CONTINUATION REFER SHEET 2

SERVICES LEGEND

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY	E E	e e
ELECTRICITY OVERHEAD	V A	V A
TELSTRA CONDUITS	T T	t t
SEWER SERVICE	S S	s s
WATER SERVICE	W W	w w
GAS SERVICE	G G	g g
SERVICE TO BE REMOVED	X X X	
STORMWATER		SW SW
SEWER MANHOLE		
LIGHT POLE		
POWER POLE		

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

SERVICES AND UTILITIES COORDINATION PLAN SHEET 1

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1050

Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1050.dwg

MASONRY PLANT
FFL 77.8
(±500mm)

PROPOSED ESTATE ROAD

FOR CONTINUATION REFER SHEET 1

FOR CONTINUATION REFER SHEET 3

WAREHOUSE 3A
FFL 79.10
(±500mm)

WAREHOUSE 3B
FFL 79.10
(±500mm)

WAREHOUSE 4
FFL 78.80
(±500mm)

SERVICES LEGEND

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY	E E	e e e e
ELECTRICITY OVERHEAD		
TELSTRA CONDUITS	T T	t t t
SEWER SERVICE	S S	s s s
WATER SERVICE	W W	w w w
GAS SERVICE	G G	g g g
SERVICE TO BE REMOVED	X X X	
STORMWATER		SW SW
SEWER MANHOLE		
LIGHT POLE		
POWER POLE		

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

SERVICES AND UTILITIES COORDINATION PLAN SHEET 2

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1051

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1051.dwg

MASONRY PLANT
FFL 77.8
(±500mm)

WAREHOUSE 4
FFL 78.80
(±500mm)

PROPOSED ESTATE ROAD

BASE

OF

STICKPAVE

FOR CONTINUATION REFER SHEET 2

74.47 77.57 77.58 77.39 72.71 73.14 73.59 74.68 74.53 75.45 76.98 79.22 83.76 87.86 87.06

SERVICES LEGEND

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY	E E	e e
ELECTRICITY OVERHEAD	V V	V V
TELSTRA CONDUITS	T T	t t
SEWER SERVICE	S S	s s
WATER SERVICE	W W	w w
GAS SERVICE	G G	g g
SERVICE TO BE REMOVED	X X	
STORMWATER		sw sw
SEWER MANHOLE		
LIGHT POLE		
POWER POLE		

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
SERVICES AND UTILITIES COORDINATION PLAN
SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1052

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1052.dwg

NOTE:
1. THE EXISTING CONTOURS SHOWN INCLUDE THE EXISTING STOCKPILES. AN UPDATED SURVEY WILL BE REQUIRED PRIOR TO DETAILED DESIGN. REFER TO BULK EARTHWORK NOTE ON C1001.

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 50 100 150 200m

1 : 2000 @ A1

Client: Goodman

Scales	1 : 2000
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
EXISTING STORMWATER CATCHMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1055

Issue: A

100mm on Original

\\atlserver2\projects\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1055.dwg

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 25 50 75 100 125m

1 : 1250 @ A1 1 : 2500 @ A3

Client

Goodman

Scales	1 : 1250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

PROPOSED STORMWATER CATCHMENT PLAN

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

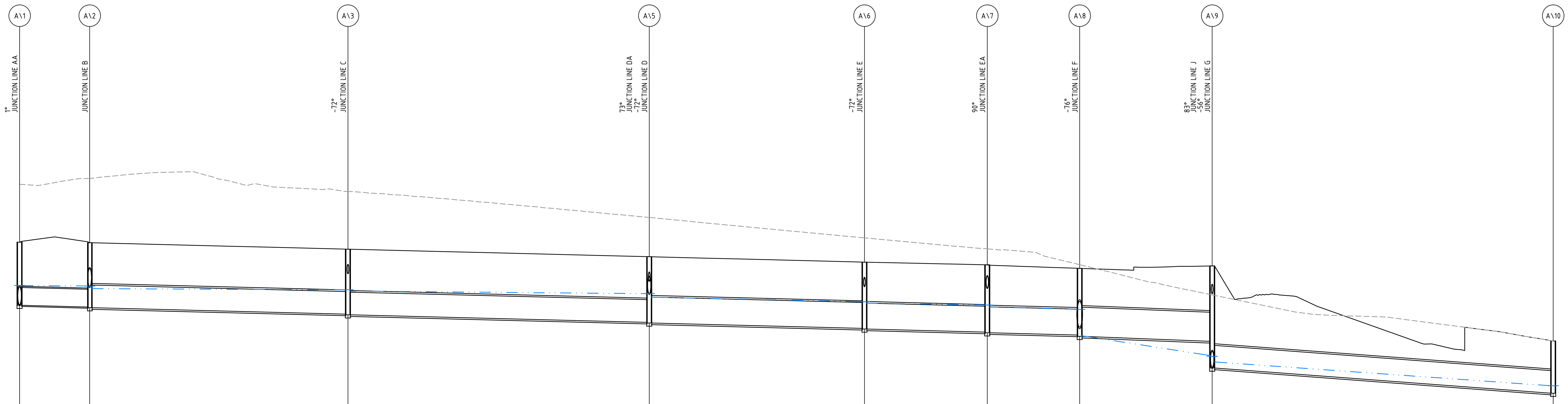
A1

Project No. - Drawing No.: 18-563-C1056

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1056.dwg



Segment	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
A\1 – A\2	0.55	1	Ø825 RCP	0.5%	L=16.286
A\2 – A\3	1.28	1.6	Ø1050 RCP	0.5%	L=60.001
A\3 – A\5	1.34	1.5	Ø1050 RCP	0.5%	L=69.999
A\5 – A\6	2.03	1.8	Ø1200 RCP	0.5%	L=50.000
A\6 – A\7	2.08	1.8	Ø1200 RCP	0.5%	L=28.531
A\7 – A\8	2.33	2.1	Ø1200 RCP	0.5%	L=21.470
A\8 – A\9	0	0	Ø1350 RCP	0.8%	L=30.783
A\9 – A\10	0.74	3.9	Ø1050 RCP	1.2%	L=79.217

Datum R.L 55.00

Pit	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE	CHAINAGE
A\1	2.928 / 2.928	76.290 / 76.276	75.367	78.295	80.979	0.000
A\2	2.984 / 3.014 / 3.014	76.263 / 76.260 / 76.139	75.286 / 75.256	78.270	81.249	16.286
A\3	3.014 / 3.044 / 3.044	76.085 / 76.090 / 76.026	74.956 / 74.926	77.970	80.646	76.286
A\5	3.044 / 3.074 / 3.074	75.906 / 75.910 / 75.743	74.576 / 74.546	77.620	79.441	146.286
A\6	3.074 / 3.104 / 3.104	75.531 / 75.530 / 75.465	74.296 / 74.266	77.370	78.495	196.285
A\7	3.121 / 3.151 / 3.151	75.382 / 75.380 / 75.287	74.123 / 74.093	77.244	77.987	224.816
A\8	3.092 / 3.152 / 3.152	75.179 / 75.180 / 73.956	73.986 / 73.926	77.078	77.251	246.286
A\9	3.501 / 4.736 / 4.736	73.033 / 73.000 / 72.739	73.692 / 72.227	77.193	75.848	277.069
A\10	2.427 / 2.427	71.630 / 71.630	71.284	73.711	73.711	356.286

LINE A

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales
1 : 500 @ A1   1 : 1000 @ A3 (0 10 20 30 40 50m)
1 : 100 @ A1   1 : 200 @ A3 (0 2 4 6 8 10m)

Client: Goodman

Scales	1 : 500 H, 1 : 100 V
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

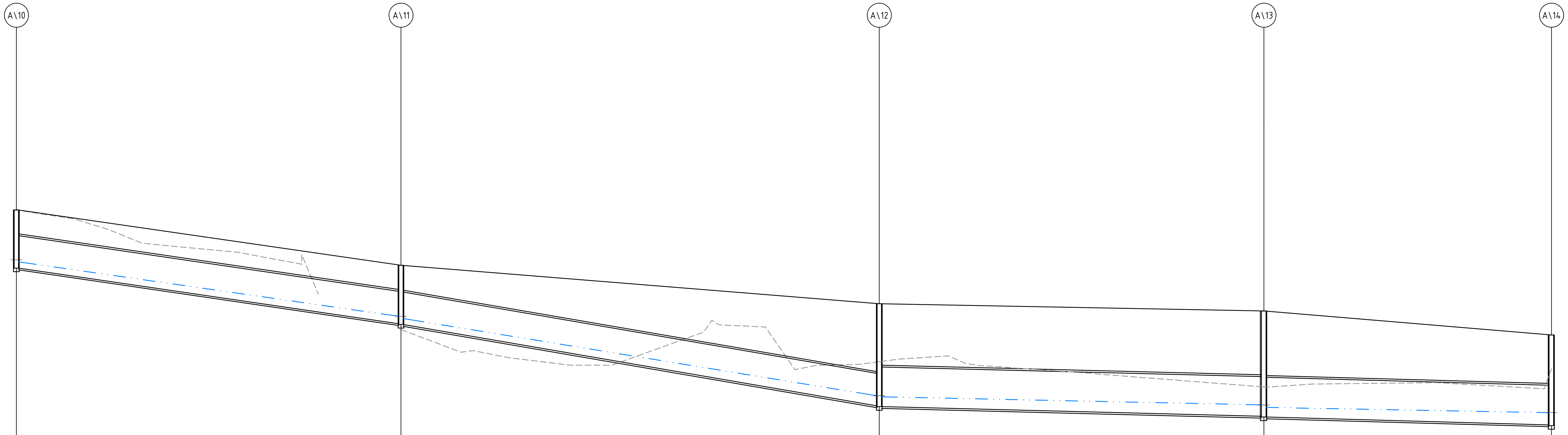
Title: STORMWATER LONGITUDINAL SECTION SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

Project No. - Drawing No.: 18-563-C1060
Issue: A

100mm on Original



	A\10		A\11		A\12		A\13		A\14
FLOW (m³/s)		0.74		0.74		0.74		0.74	
VELOCITY (m/s)		4.4		4.7		2.3		2.4	
PIPE SIZE & CLASS		Ø1350 RCP		Ø1350 RCP		Ø1650 RCP		Ø1650 RCP	
GRADE (%)		2.9%		3.4%		0.5%		0.5%	
Datum R.L 48.00									
DEPTH TO INVERT	2.416 2.416 / 2.416		2.432 2.462 / 2.462		4.251 4.281 / 4.281		4.381 4.411 / 4.411		3.740 3.770
H.G.L. LEVEL	71.630 71.630 / 71.543		69.278 69.280 / 69.186		65.970 65.970 / 65.928		65.593 65.590 / 65.487		65.269 65.270
INVERT LEVEL	71.284 / 71.284		68.968 / 68.938		65.549 / 65.519		65.119 / 65.089		64.760
TOP OF PIT LEVEL	73.700		71.400		69.800		69.500		68.500
EXISTING SURFACE SURFACE	73.711		68.727		67.389		66.339		67.096
CHAINAGE	356.286	L=80.000	436.286	L=99.492	535.778	L=79.998	615.777	L=59.822	675.599

LINE A

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m — 1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales	1 : 500 H 1 : 100 V	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: STORMWATER LONGITUDINAL SECTION SHEET 2

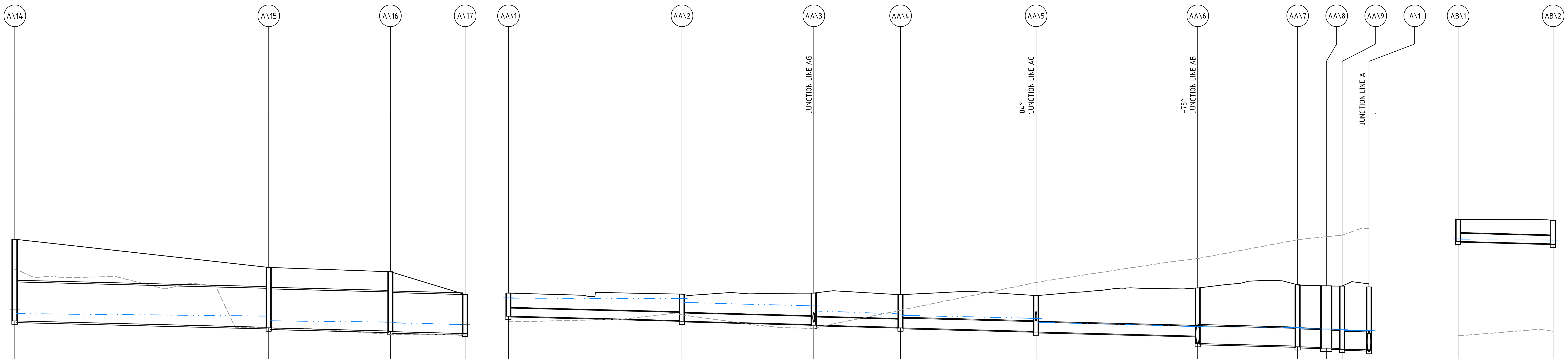
Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL — NOT TO BE USED FOR CONSTRUCTION — A1

Project No. - Drawing No.: 18-563-C1061 — Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1061.dwg



LINE A

	A\14 – A\15	A\15 – A\16	A\16 – A\17
FLOW (m³/s)	0.74	0.74	0.74
VELOCITY (m/s)	3	3.2	2.3
PIPE SIZE & CLASS	Ø1800 RCP	Ø1800 RCP	Ø1800 RCP
GRADE (%)	0.5%	0.5%	0.5%
Length	L=58.541	L=28.057	L=17.213

Datum R.L 45.00

	A\14	A\15	A\16	A\17
DEPTH TO INVERT	3.740 3.770 / 3.770	2.763 2.793 / 2.793	2.733 2.763 / 2.763	1.800 1.800 / 1.800
H.G.L. LEVEL	65.269 65.270 / 65.068	64.957 64.960 / 64.734	64.681 64.670 / 64.646	64.564 64.560 / 64.564
INVERT LEVEL	64.760 / 64.730	64.437 / 64.407	64.267 / 64.237	64.151 / 64.151
TOP OF PIT LEVEL	68.500	67.200	67.000	65.951
EXISTING SURFACE SURFACE	67.096	64.421	64.111	64.089
CHAINAGE	675.599	734.139	762.197	779.410

LINE AA

	AA\1 – AA\2	AA\2 – AA\3	AA\3 – AA\4	AA\4 – AA\5	AA\5 – AA\6	AA\6 – AA\7	AA\7 – AA\8	AA\8 – AA\9	AA\9 – A\1
FLOW (m³/s)	0.08	0.14	0.19	0.23	0.28	0.55	0.53	0.53	0.53
VELOCITY (m/s)	0.7	1.3	1.7	1.4	1.8	1.1	1	1	1
PIPE SIZE & CLASS	Ø375 RCP	Ø375 RCP	Ø375 RCP	Ø450 RCP	Ø450 RCP	Ø825 RCP	Ø825 RCP	Ø825 RCP	Ø825 RCP
GRADE (%)	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Length	L=40.001	L=30.391	L=20.000	L=31.250	L=37.266	L=23.038	L=6.618	L=3.660	L=6.180

Datum R.L 57.00

	AA\1	AA\2	AA\3	AA\4	AA\5	AA\6	AA\7	AA\8	AA\9	A\1
DEPTH TO INVERT	1.067 / 1.067	1.218 1.248 / 1.248	1.449 1.479 / 1.479	1.503 1.533 / 1.533	1.650 1.680 / 1.680	2.218 2.567 / 2.567	2.828 2.858 / 2.858	2.842 2.872 / 2.872	2.883 2.913 / 2.913	2.898 2.928 / 2.928
H.G.L. LEVEL	77.830 / 77.786	77.758 77.760 / 77.582	77.423 77.420 / 77.191	77.054 77.050 / 76.989	76.854 76.850 / 76.670	76.471 76.470 / 76.460	76.435 76.430 / 76.366	76.363 76.360 / 76.355	76.353 76.350 / 76.295	76.291 76.290 / 76.276
INVERT LEVEL	76.949	76.749 / 76.719	76.567 / 76.537	76.437 / 76.407	76.250 / 76.220	76.034 / 75.685	75.569 / 75.539	75.506 / 75.476	75.458 / 75.428	75.397 / 75.367
TOP OF PIT LEVEL	78.016	77.967	78.016	77.940	77.900	78.252	78.397	78.348	78.341	78.295
EXISTING SURFACE SURFACE	76.703	77.008	76.385	77.226	78.503	79.608	80.477	80.614	80.689	80.979
CHAINAGE	0.000	40.001	70.392	90.392	121.642	158.908	181.946	188.564	192.224	198.404

LINE AB

	AB\1 – AB\2
FLOW (m³/s)	0.01
VELOCITY (m/s)	0.8
PIPE SIZE & CLASS	Ø375 RCP
GRADE (%)	0.5%
Length	L=21.900

Datum R.L 54.00

	AB\1	AB\2
DEPTH TO INVERT	1.010 / 1.010	1.081 1.111
H.G.L. LEVEL	77.510 / 77.467	77.462 77.460
INVERT LEVEL	77.398	77.288
TOP OF PIT LEVEL	78.408	78.369
EXISTING SURFACE SURFACE	73.043	73.255
CHAINAGE	0.000	21.900

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m — 1 : 100 @ A1 1 : 200 @ A3

100mm on Original

Client: Goodman

Scales	1 : 500 H 1 : 100 V	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: STORMWATER LONGITUDINAL SECTION SHEET 3

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

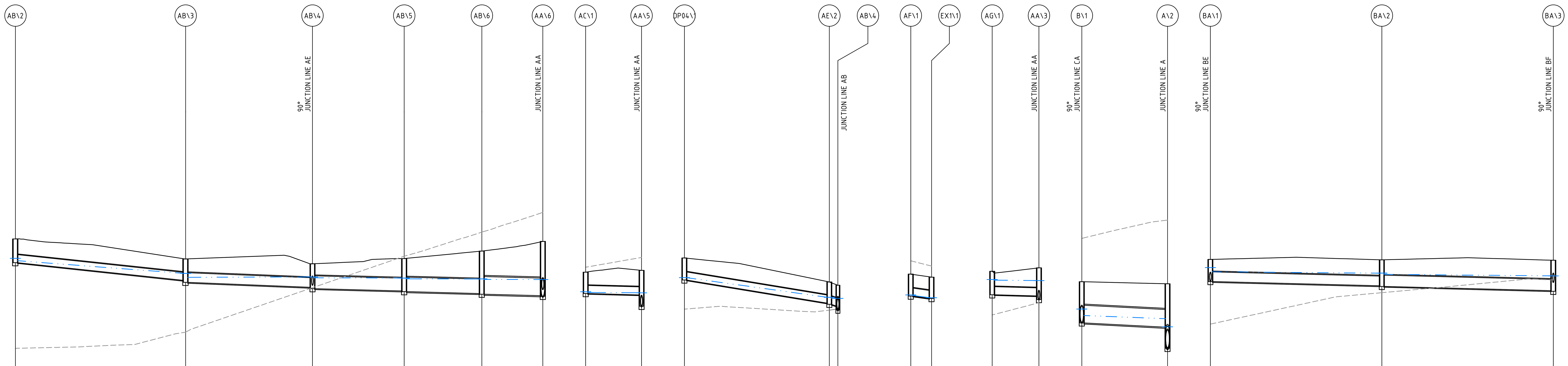
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1062

Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1062.dwg



LINE AB

Datum R.L 55.00

Pipe length	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
AB\2 – AB\3	0.04	1.8	Ø375 RCP	2.1%	L=39.713
AB\3 – AB\4	0.11	1.4	Ø450 RCP	0.8%	L=29.600
AB\4 – AB\5	0.25	1	Ø600 RCP	0.5%	L=21.400
AB\5 – AB\6	0.27	0.8	Ø675 RCP	0.5%	L=18.107
AB\6 – AA\6	0.28	0.6	Ø825 RCP	0.5%	L=14.227

Pit	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE	CHAINAGE
AB\2	1.081 1.111 / 1.111	77.462 77.460 / 77.350	77.288 / 77.258	78.369	73.255	21.900
AB\3	0.999 1.090 / 1.090	76.759 76.760 / 76.574	76.431 / 76.340	77.430	74.011	61.614
AB\4	1.098 1.162 / 1.162	76.593 76.590 / 76.551	76.107 / 76.043	77.205	76.090	91.214
AB\5	1.514 1.544 / 1.544	76.541 76.540 / 76.504	75.936 / 75.906	77.450	77.560	112.614
AB\6	1.984 2.014 / 2.014	76.495 76.500 / 76.476	75.816 / 75.786	77.800	78.682	130.722
AA\6	2.537 2.567 / 2.567	76.471 76.470 / 76.460	75.715 / 75.685	78.252	79.608	144.949

LINE AC

Datum R.L 56.00

Pipe length	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
AC\1 – AA\5	0.01	0.7	Ø375 RCP	0.5%	L=13.036

Pit	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE	CHAINAGE
AC\1	0.995 / 0.995	76.900 / 76.865	76.817	77.812	78.045	0.000
AA\5	1.148 1.680 / 1.680	76.854 76.850 / 76.670	76.752 / 76.220	77.900	78.503	13.036

LINE AE

Datum R.L 56.00

Pipe length	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
DP04\1 – AE\2	0.07	2.7	Ø375 RCP	3.2%	L=33.809
AE\2 – AB\4	0.1	1.1	Ø375 RCP	4.2%	L=2.001

Pit	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE	CHAINAGE
DP04\1	1.025 / 1.025	77.560 / 77.559	77.451	78.476	76.087	0.000
AE\2	0.991 1.045 / 1.045	76.640 76.640 / 76.594	76.367 / 76.313	77.358	76.041	33.809
AB\4	0.976 1.162 / 1.162	76.593 76.590 / 76.551	76.229 / 76.043	77.205	76.090	35.810

LINE AF

Datum R.L 53.00

Pipe length	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
AF\1 – EX1\1	0.01	1.4	Ø375 RCP	2.3%	L=4.848

Pit	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE	CHAINAGE
AF\1	1.026 / 1.026	73.750 / 73.725	73.697	74.723	75.347	0.000
EX1\1	0.997 0.997 / 0.997	73.623 73.620 / 73.623	73.585 / 73.585	74.582	75.099	4.848

LINE AG

Datum R.L 56.00

Pipe length	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
AG\1 – AA\3	0.04	0.4	Ø375 RCP	0.5%	L=10.902

Pit	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE	CHAINAGE
AG\1	1.095 / 1.095	77.470 / 77.441	76.759	77.854	75.815	0.000
AA\3	1.311 1.479 / 1.479	77.423 77.420 / 77.191	76.705 / 76.537	78.016	76.385	10.902

LINE B

Datum R.L 57.00

Pipe length	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
B\1 – A\2	0.8	3.8	Ø825 RCP	1%	L=20.000

Pit	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE	CHAINAGE
B\1	1.926 / 1.926	77.090 / 76.789	76.444	78.370	80.393	0.000
A\2	2.026 3.014 / 3.014	76.641 76.260 / 76.139	76.244 / 75.256	78.270	81.249	20.000

LINE BA

Datum R.L 55.00

Pipe length	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
BA\1 – BA\2	0.13	0.8	Ø450 RCP	0.5%	L=40.001
BA\2 – BA\3	0.2	0.9	Ø525 RCP	0.5%	L=40.000

Pit	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE	CHAINAGE
BA\1	1.032 / 1.032	77.030 / 76.835	76.378	77.410	74.389	0.000
BA\2	1.210 1.240 / 1.240	76.766 76.770 / 76.712	76.180 / 76.150	77.390	75.856	40.001
BA\3	1.420 1.450	76.642 76.640	75.950	77.370	76.447	80.000

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales
0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3
0 2 4 6 8 10m — 1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales: 1 : 500 H, 1 : 100 V
Grid: MGA
Height Datum: AHD

Drawn: FX
Designed: FX
Checked: AM
Approved: AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: STORMWATER LONGITUDINAL SECTION SHEET 4

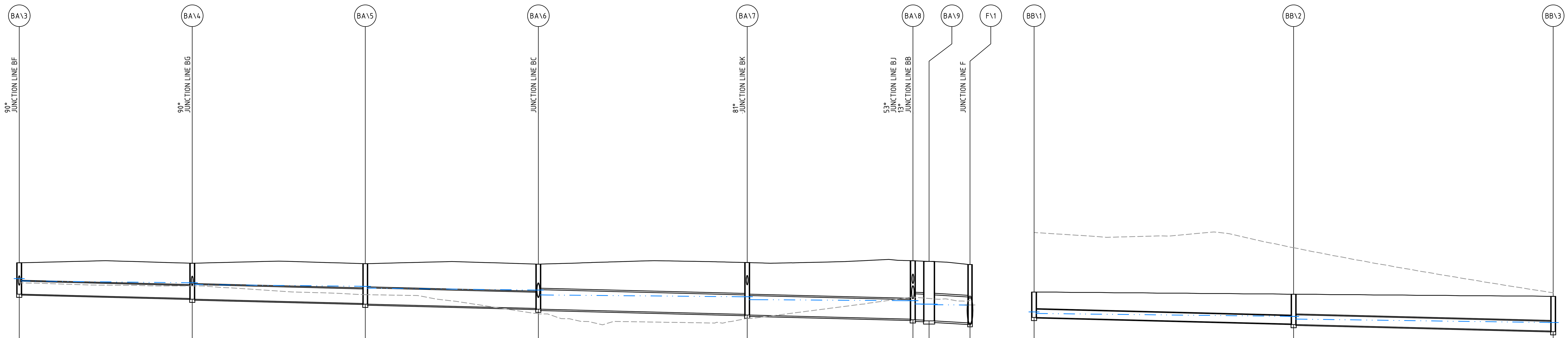
Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

Project No. - Drawing No.: 18-563-C1063
Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1063.dwg



	BA\3 → BA\4	BA\4 → BA\5	BA\5 → BA\6	BA\6 → BA\7	BA\7 → BA\8	BA\8 → BA\9	BA\9 → F\1
FLOW (m³/s)	0.34	0.44	0.56	1.04	1.12	1.41	1.4
VELOCITY (m/s)	1.2	1.2	1.3	2.1	2.1	1.9	1.9
PIPE SIZE & CLASS	Ø600 RCP	Ø675 RCP	Ø750 RCP	Ø900 RCP	Ø900 RCP	Ø1200 RCP	Ø1200 RCP
GRADE (%)	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	1%
Length	L=40.000	L=40.000	L=40.001	L=48.286	L=38.306	L=3.737	L=9.457

Datum R.L 55.00

	BA\3	BA\4	BA\5	BA\6	BA\7	BA\8	BA\9	F\1
DEPTH TO INVERT	1.420 / 1.450 / 1.450	1.630 / 1.662 / 1.662	1.842 / 1.872 / 1.872	2.052 / 2.082 / 2.082	2.398 / 2.428 / 2.428	2.702 / 2.732 / 2.732	2.721 / 2.751 / 2.751	2.699 / 2.729 / 2.729
H.G.L. LEVEL	76.642 / 76.640 / 76.533	76.447 / 76.450 / 76.364	76.284 / 76.280 / 76.199	76.109 / 76.110 / 75.885	75.799 / 75.800 / 75.668	75.617 / 75.620 / 75.469	75.464 / 75.460 / 75.431	75.418 / 75.420 / 75.206
INVERT LEVEL	75.950 / 75.920	75.720 / 75.688	75.488 / 75.458	75.258 / 75.228	74.986 / 74.956	74.765 / 74.735	74.716 / 74.686	74.591 / 74.561
TOP OF PIT LEVEL	77.370	77.350	77.330	77.310	77.384	77.467	77.437	77.290
EXISTING SURFACE SURFACE	76.447	76.302	75.896	75.022	74.794	75.786	75.721	75.634
CHAINAGE	80.000	120.000	160.000	200.001	248.287	286.593	290.331	299.788

LINE BA

	BB\1 → BB\2	BB\2 → BB\3
FLOW (m³/s)	0.07	0.17
VELOCITY (m/s)	1.4	1.8
PIPE SIZE & CLASS	Ø375 RCP	Ø450 RCP
GRADE (%)	0.5%	0.5%
Length	L=60.001	L=60.000

Datum R.L 57.00

	BB\1	BB\2	BB\3
DEPTH TO INVERT	1.172 / 1.172	1.372 / 1.402 / 1.402	1.602 / 1.632
H.G.L. LEVEL	77.100 / 77.028	76.893 / 76.890 / 76.767	76.608 / 76.610
INVERT LEVEL	76.845	76.545 / 76.515	76.215
TOP OF PIT LEVEL	78.017	77.917	77.817
EXISTING SURFACE SURFACE	80.773	80.069	77.982
CHAINAGE	0.000	60.001	120.000

LINE BB

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

100mm on Original

Client: Goodman

Scales: 1 : 500 H, 1 : 100 V
Grid: MGA
Height Datum: AHD

Drawn: FX
Designed: FX
Checked: AM
Approved: AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

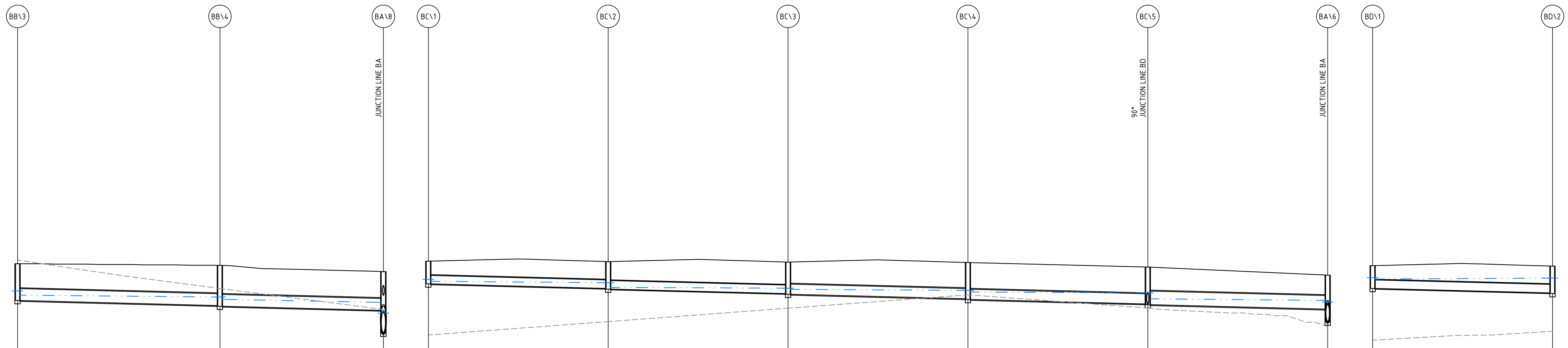
Title: STORMWATER LONGITUDINAL SECTION SHEET 5

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

Project No. - Drawing No.: 18-563-C1064
Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1064.dwg



	BB\3	BB\3 – BB\4	BB\4	BB\4 – BA\8	BA\8
FLOW (m³/s)		0.26		0.29	
VELOCITY (m/s)		2.7		2.2	
PIPE SIZE & CLASS		Ø525 RCP		Ø525 RCP	
GRADE (%)		0.5%		0.5%	
Datum R.L 55.00					
DEPTH TO INVERT	1.602 1.632 / 1.632		1.784 1.814 / 1.814		1.719 2.732 / 2.732
H.G.L. LEVEL	76.608 76.610 / 76.422		76.336 76.340 / 76.236		76.100 75.620 / 75.469
INVERT LEVEL	76.215 / 76.185		75.960 / 75.930		75.748 / 74.735
TOP OF PIT LEVEL	77.817		77.744		77.467
EXISTING SURFACE SURFACE	77.982		76.717		75.786
CHAINAGE	120.000	L=45.000	165.000	L=36.356	201.356

LINE BB

	BC\1	BC\1 – BC\2	BC\2	BC\2 – BC\3	BC\3	BC\3 – BC\4	BC\4	BC\4 – BC\5	BC\5	BC\5 – BA\6	BA\6
FLOW (m³/s)		0.03		0.07		0.1		0.14		0.39	
VELOCITY (m/s)		1.1		4.6		1.3		1.1		3.4	
PIPE SIZE & CLASS		Ø375 RCP		Ø375 RCP		Ø450 RCP		Ø450 RCP		Ø600 RCP	
GRADE (%)		0.5%		0.5%		0.5%		0.5%		0.5%	
Datum R.L 55.00											
DEPTH TO INVERT	1.008 / 1.008		1.188 1.218 / 1.218		1.398 1.428 / 1.428		1.608 1.638 / 1.638		1.638 1.668 / 1.668		1.508 2.082 / 2.082
H.G.L. LEVEL	77.120 / 77.038		76.974 76.970 / 76.765		76.731 76.730 / 76.678		76.635 76.630 / 76.562		76.522 76.520 / 76.259		76.187 76.110 / 75.885
INVERT LEVEL	76.922		76.722 / 76.692		76.492 / 76.462		76.262 / 76.232		76.032 / 76.002		75.802 / 75.228
TOP OF PIT LEVEL	77.930		77.910		77.890		77.870		77.670		77.310
EXISTING SURFACE SURFACE	74.652		75.246		75.841		76.436		75.849		75.022
CHAINAGE	0.000	L=40.000	40.000	L=40.001	80.000	L=40.000	120.000	L=40.001	160.001	L=40.000	200.000

LINE BC

	BD\1	BD\1 – BD\2	BD\2
FLOW (m³/s)		0.06	
VELOCITY (m/s)		0.5	
PIPE SIZE & CLASS		Ø375 RCP	
GRADE (%)		0.5%	
Datum R.L 55.00			
DEPTH TO INVERT	1.008 / 1.008		1.188 1.218
H.G.L. LEVEL	77.200 / 77.135		77.179 77.180
INVERT LEVEL	76.722		76.522
TOP OF PIT LEVEL	77.730		77.710
EXISTING SURFACE SURFACE	74.419		74.816
CHAINAGE	0.000	L=40.001	40.001

LINE BD

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales: 1 : 500 H, 1 : 100 V
Grid: MGA
Height Datum: AHD
Drawn: FX
Designed: FX
Checked: AM
Approved: AM

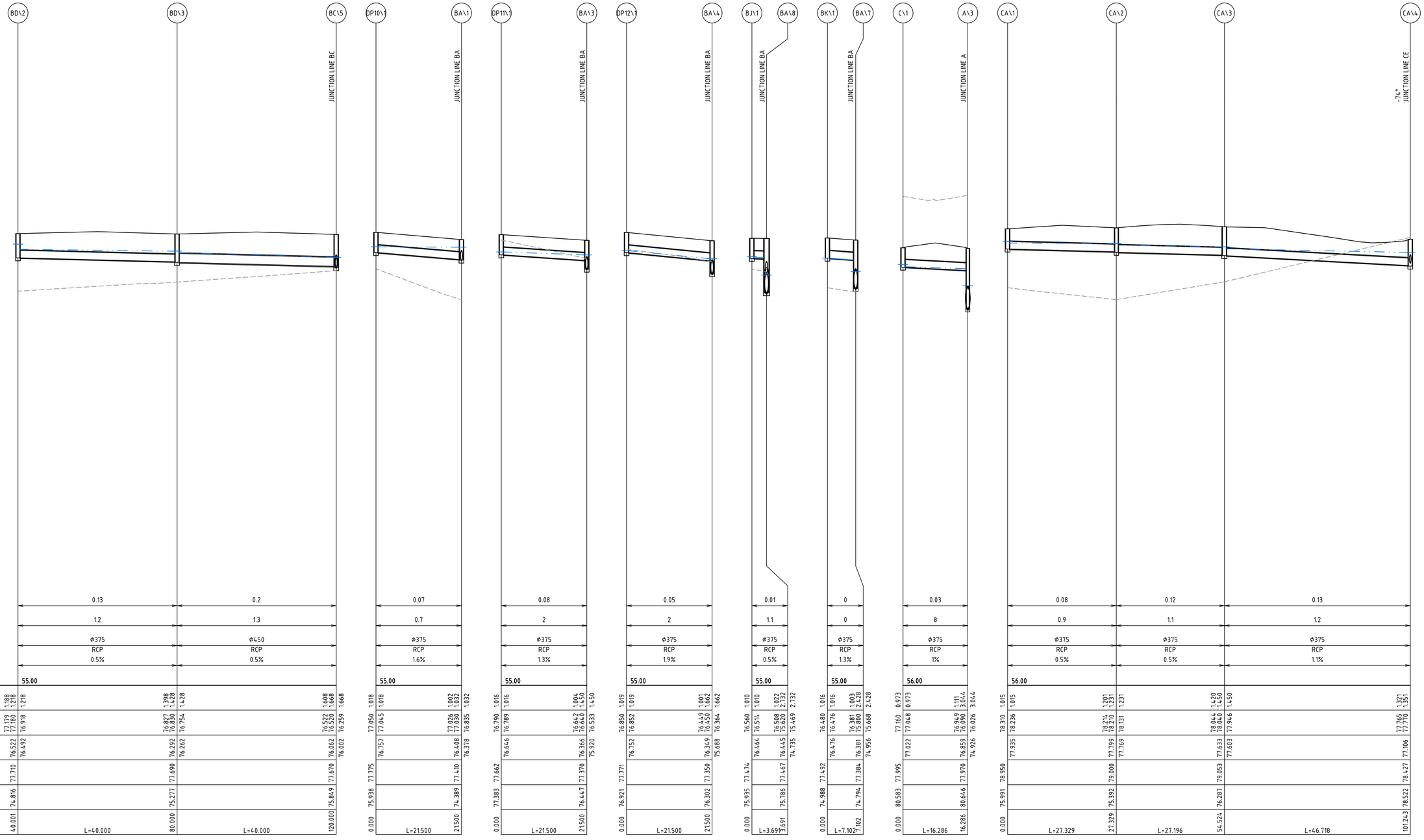
Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: STORMWATER LONGITUDINAL SECTION SHEET 6

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1
Project No. - Drawing No.: 18-563-C1065
Issue: A

100mm on Original
F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1065.dwg



Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

Goodman

Scales	1 : 500 H 1 : 100 V
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

STORMWATER LONGITUDINAL SECTION SHEET 7

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

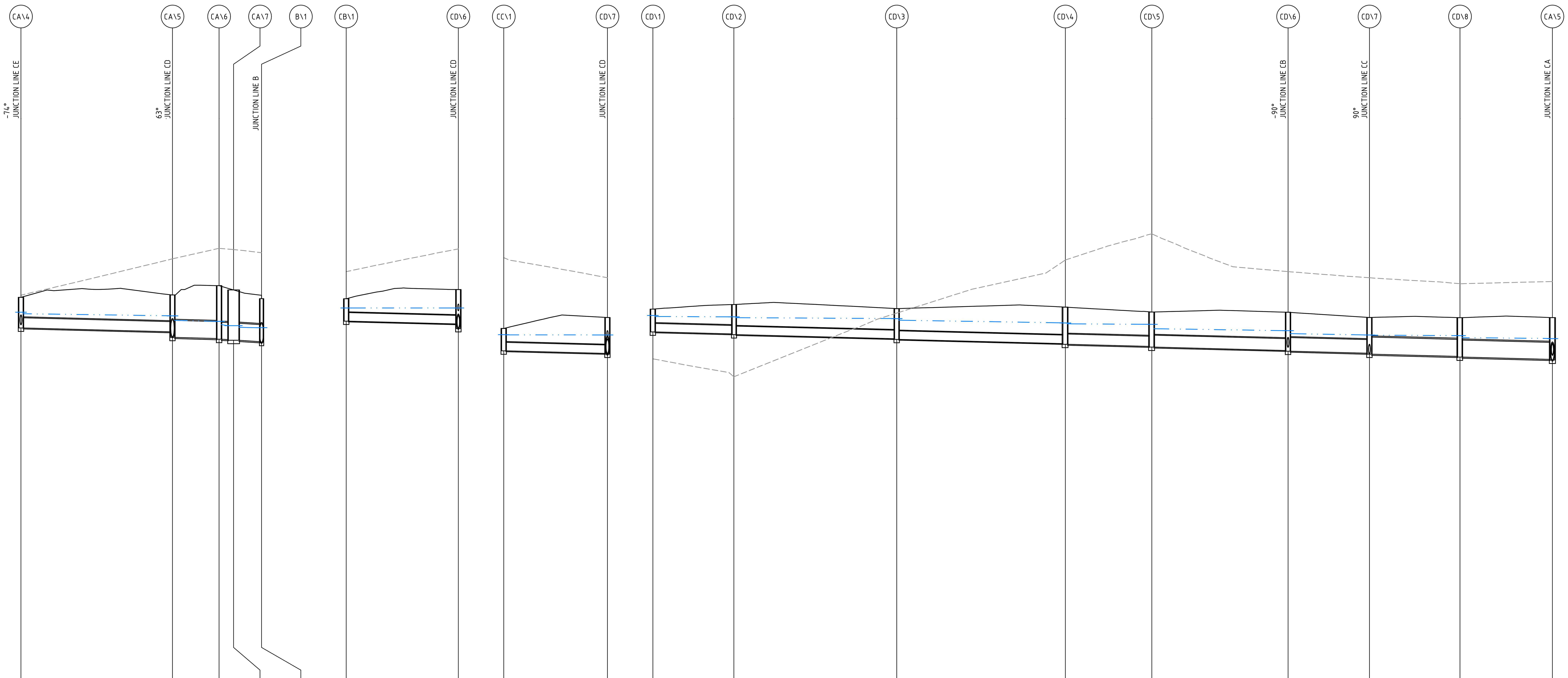
A1

Project No. - Drawing No.: 18-563-C1066

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1066.dwg



LINE CA

Datum R.L 57.00

Pipe run	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
CA\4 – CA\5	0.17	1.1	Φ450 RCP	0.5%	L=33.375
CA\5 – CA\6	0.75	1.7	Φ750 RCP	0.5%	L=10.273
CA\6 – CA\7	0.75	1.9	Φ750 RCP	0.5%	L=3.191
CA\7 – B\1	0.78	2.1	Φ750 RCP	1%	L=6.160

Pit	CHAINAGE	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE
CA\4	101.243	1.321 / 1.351 / 1.351	77.765 / 77.770 / 77.706	77.106 / 77.076	78.427	78.522
CA\5	134.617	1.626 / 1.872 / 1.872	77.614 / 77.610 / 77.411	76.909 / 76.663	78.535	80.124
CA\6	144.890	2.335 / 2.365 / 2.365	77.369 / 77.370 / 77.226	76.611 / 76.581	78.946	80.589
CA\7	148.081	2.187 / 2.217 / 2.217	77.177 / 77.180 / 77.106	76.565 / 76.535	78.752	80.531
B\1	154.241	1.896 / 1.926 / 1.926	77.086 / 77.090 / 76.789	76.474 / 76.444	78.370	80.393

LINE CB

Datum R.L 57.00

Pipe run	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
CB\1 – CD\6	0.01	0.1	Φ375 RCP	0.5%	L=24.702

Pit	CHAINAGE	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE
CB\1	0.000	0.986 / 0.986	77.960 / 77.960	77.380	78.366	79.562
CD\6	24.702	1.514 / 1.716 / 1.716	77.959 / 77.960 / 77.828	77.256 / 77.054	78.770	80.561

LINE CC

Datum R.L 58.00

Pipe run	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
CC\1 – CD\7	0.01	0.1	Φ375 RCP	0.5%	L=22.848

Pit	CHAINAGE	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE
CC\1	0.000	0.987 / 0.987	77.780 / 77.775	77.069	78.056	81.175
CD\7	22.848	1.586 / 1.616 / 1.616	77.770 / 77.770 / 77.761	76.954 / 76.924	78.540	80.292

LINE CD

Datum R.L 58.00

Pipe run	FLOW (m³/s)	VELOCITY (m/s)	PIPE SIZE & CLASS	GRADE (%)	Length
CD\1 – CD\2	0.07	0.7	Φ375 RCP	0.5%	L=17.844
CD\2 – CD\3	0.08	0.7	Φ375 RCP	0.5%	L=35.882
CD\3 – CD\4	0.12	1.1	Φ375 RCP	0.5%	L=37.151
CD\4 – CD\5	0.13	0.8	Φ450 RCP	0.5%	L=19.057
CD\5 – CD\6	0.27	1.3	Φ525 RCP	0.5%	L=30.000
CD\6 – CD\7	0.41	1.5	Φ600 RCP	0.5%	L=17.931
CD\7 – CD\8	0.49	1.1	Φ750 RCP	0.5%	L=19.947
CD\8 – CA\5	0.56	1.3	Φ750 RCP	0.5%	L=20.369

Pit	CHAINAGE	DEPTH TO INVERT	H.G.L. LEVEL	INVERT LEVEL	TOP OF PIT LEVEL	EXISTING SURFACE SURFACE
CD\1	0.000	1.005 / 1.005	78.630 / 78.583	77.903	78.908	76.718
CD\2	17.844	1.299 / 1.329 / 1.329	78.567 / 78.570 / 78.532	77.814 / 77.784	79.113	75.929
CD\3	53.725	1.325 / 1.355 / 1.355	78.492 / 78.490 / 78.420	77.605 / 77.575	78.930	78.732
CD\4	90.876	1.608 / 1.638 / 1.638	78.304 / 78.300 / 78.259	77.389 / 77.359	78.997	81.073
CD\5	109.933	1.516 / 1.546 / 1.546	78.237 / 78.240 / 78.046	77.264 / 77.234	78.780	82.228
CD\6	139.933	1.686 / 1.716 / 1.716	77.959 / 77.960 / 77.828	77.084 / 77.054	78.770	80.561
CD\7	157.864	1.576 / 1.616 / 1.616	77.770 / 77.770 / 77.761	76.964 / 76.924	78.540	80.292
CD\8	177.811	1.705 / 1.735 / 1.735	77.739 / 77.740 / 77.650	76.825 / 76.795	78.530	80.026
CA\5	198.180	1.842 / 1.872 / 1.872	77.614 / 77.610 / 77.411	76.693 / 76.663	78.535	80.124

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales
0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3
0 2 4 6 8 10m — 1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales	1 : 500 H, 1 : 100 V
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

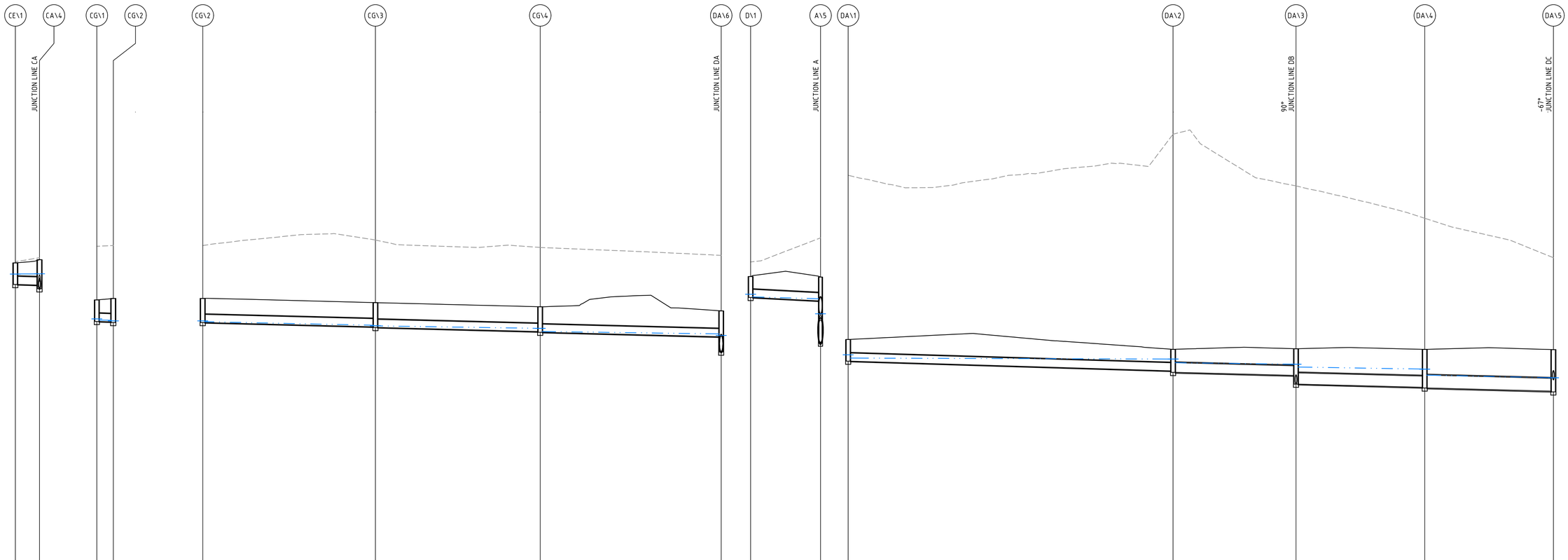
Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: STORMWATER LONGITUDINAL SECTION SHEET 8

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

Project No. - Drawing No.: 18-563-C1067
Issue: A



LINE CE

LINE CG

LINE CG

LINE D

LINE DA

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

Goodman

Scales	1 : 500 H 1 : 100 V	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

STORMWATER LONGITUDINAL SECTION SHEET 9

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

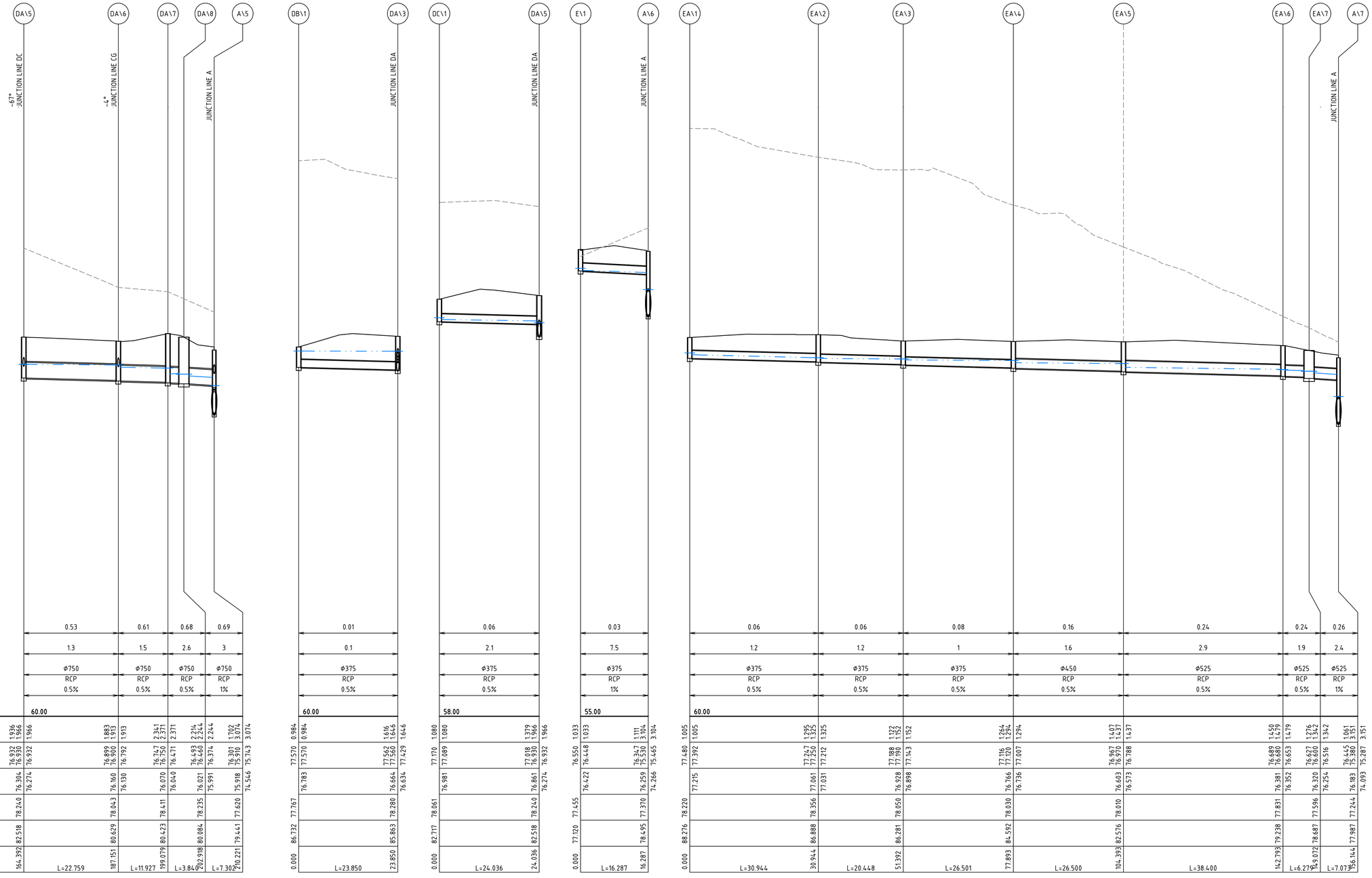
A1

Project No. - Drawing No.: 18-563-C1068

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1068.dwg



Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

Goodman

Scales	1 : 500 H 1 : 100 V
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

STORMWATER LONGITUDINAL SECTION SHEET 10

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

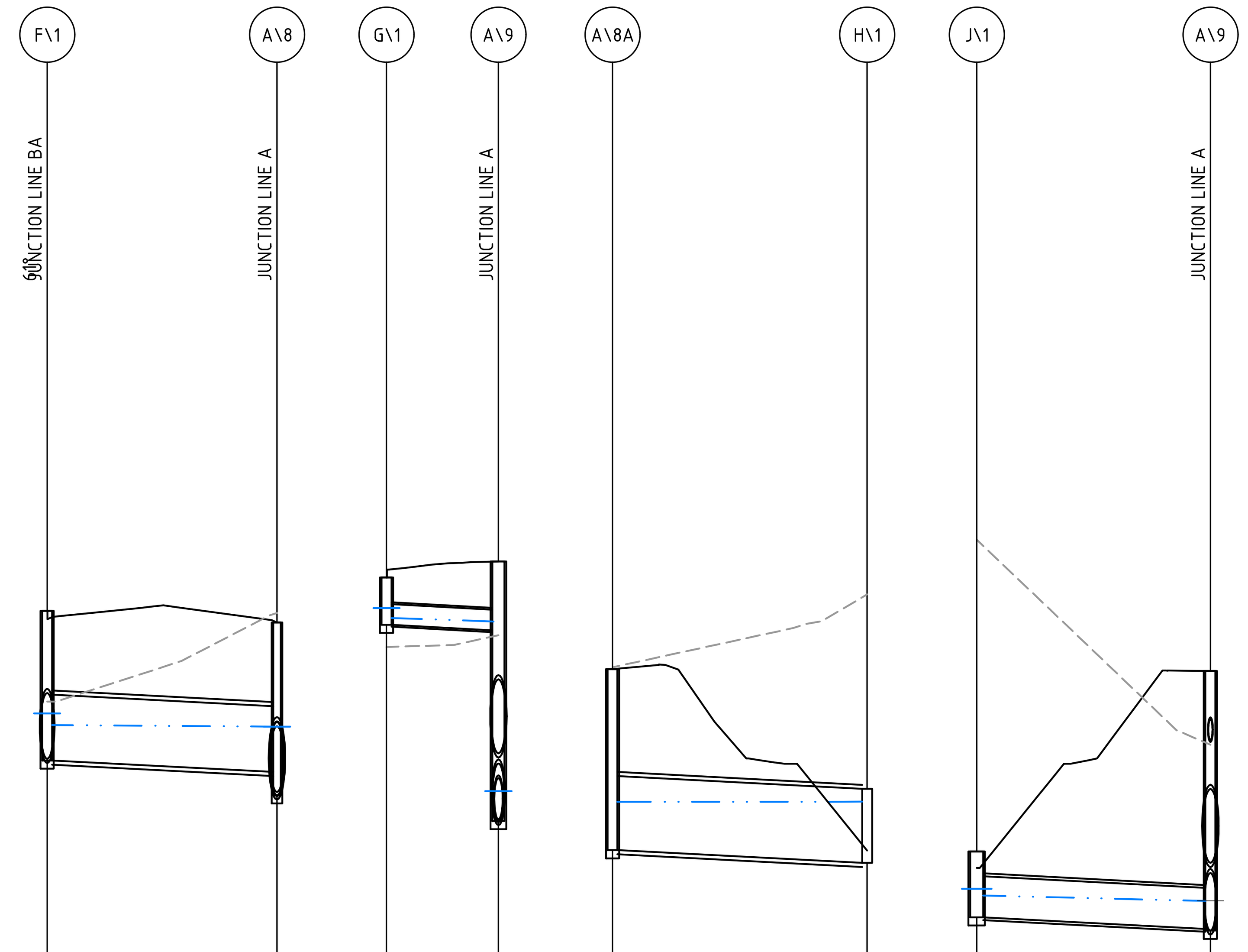
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1069

Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1069.dwg



FLOW (m³/s)
VELOCITY (m/s)
PIPE SIZE & CLASS
GRADE (%)
Datum R.L

H.G.L. LEVEL ——— · · ———
TOP OF PIT LEVEL ————
EXISTING SURFACE SURFACE – – – – – –

LINE F

FLOW (m³/s)			1.42		
VELOCITY (m/s)			2.3		
PIPE SIZE & CLASS			Ø1200 RCP		
GRADE (%)			1%		
Datum R.L		54.00			
DEPTH TO INVERT	2.729	2.729		2.727 3.152	3.152
H.G.L. LEVEL	75.420	75.206		75.179 75.180	73.956
INVERT LEVEL		74.561		74.351	73.926
TOP OF PIT LEVEL	77.290			77.078	
EXISTING SURFACE SURFACE	75.634			77.251	
CHAINAGE	0.000		L=20.977	20.977	

LINE G

FLOW (m³/s)			0.08		
VELOCITY (m/s)			2.6		
PIPE SIZE & CLASS			Ø375 RCP		
GRADE (%)			1%		
Datum R.L		53.00			
DEPTH TO INVERT	0.861	0.861		1.257 4.736	4.736
H.G.L. LEVEL	76.340	76.161		76.096 73.000	72.739
INVERT LEVEL		76.038		75.936	72.457
TOP OF PIT LEVEL	76.899			77.193	
EXISTING SURFACE SURFACE	75.631			75.848	
CHAINAGE	0.000		L=10.222	10.222	

LINE H

FLOW (m³/s)			3.75		
VELOCITY (m/s)			3.8		
PIPE SIZE & CLASS			Ø1350 RCP		
GRADE (%)			1%		
Datum R.L		55.00			
DEPTH TO INVERT	3.302	3.302		1.350 1.350	1.350
H.G.L. LEVEL		74.807		74.809	74.809
INVERT LEVEL		73.926		73.692	73.692
TOP OF PIT LEVEL	77.228			75.042	
EXISTING SURFACE SURFACE	77.262			78.592	
CHAINAGE	0.000		L=23.247	23.247	

LINE J

FLOW (m³/s)			0.73		
VELOCITY (m/s)			3.1		
PIPE SIZE & CLASS			Ø750 RCP		
GRADE (%)			1%		
Datum R.L		55.00			
DEPTH TO INVERT	1.200	1.200		4.706 4.736	4.736
H.G.L. LEVEL	73.220	73.097		72.998 73.000	72.739
INVERT LEVEL		72.450		72.257	72.227
TOP OF PIT LEVEL	73.900			77.193	
EXISTING SURFACE SURFACE	79.590			75.848	
CHAINAGE	0.000		L=21.334	21.334	

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales	1 : 500 H 1 : 100 V	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: STORMWATER LONGITUDINAL SECTION SHEET 11

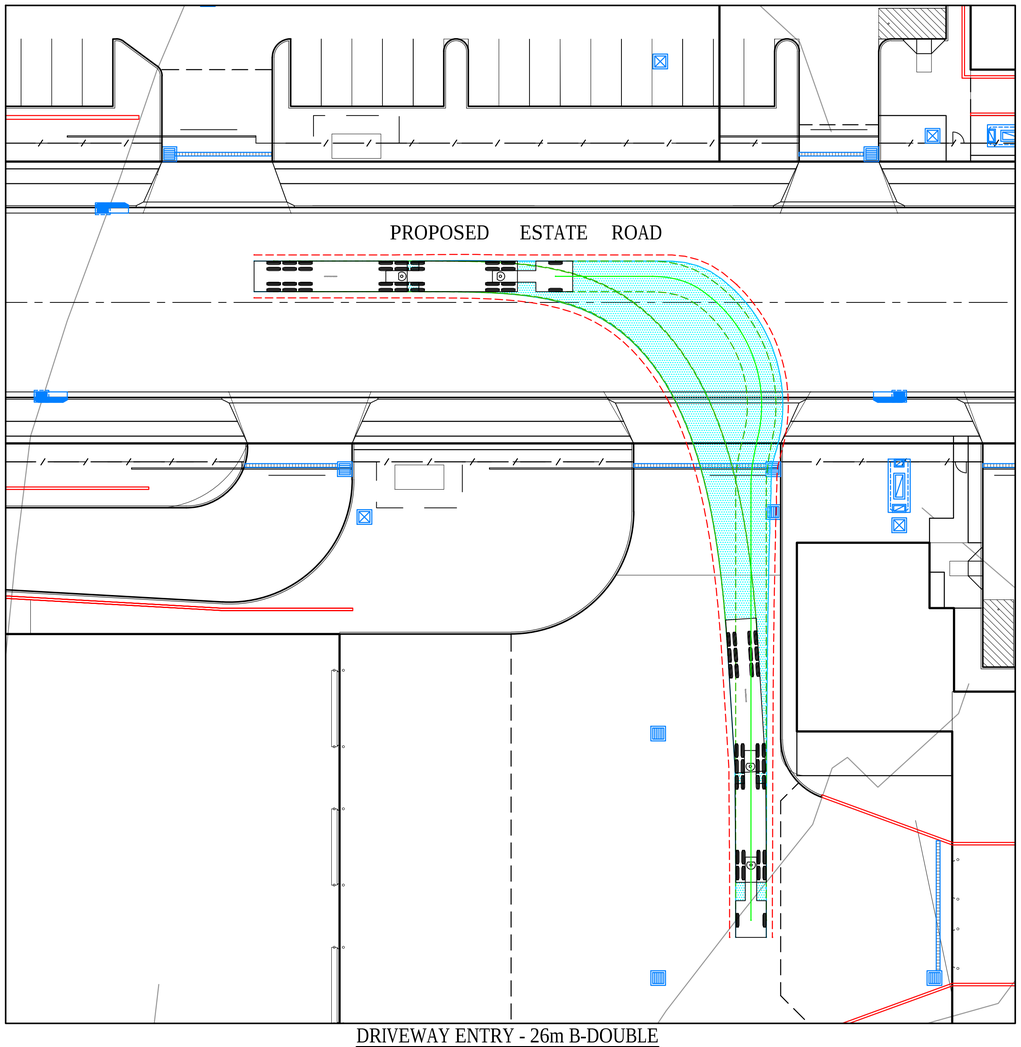
Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

Project No. - Drawing No.: 18-563-C1070
Issue: A

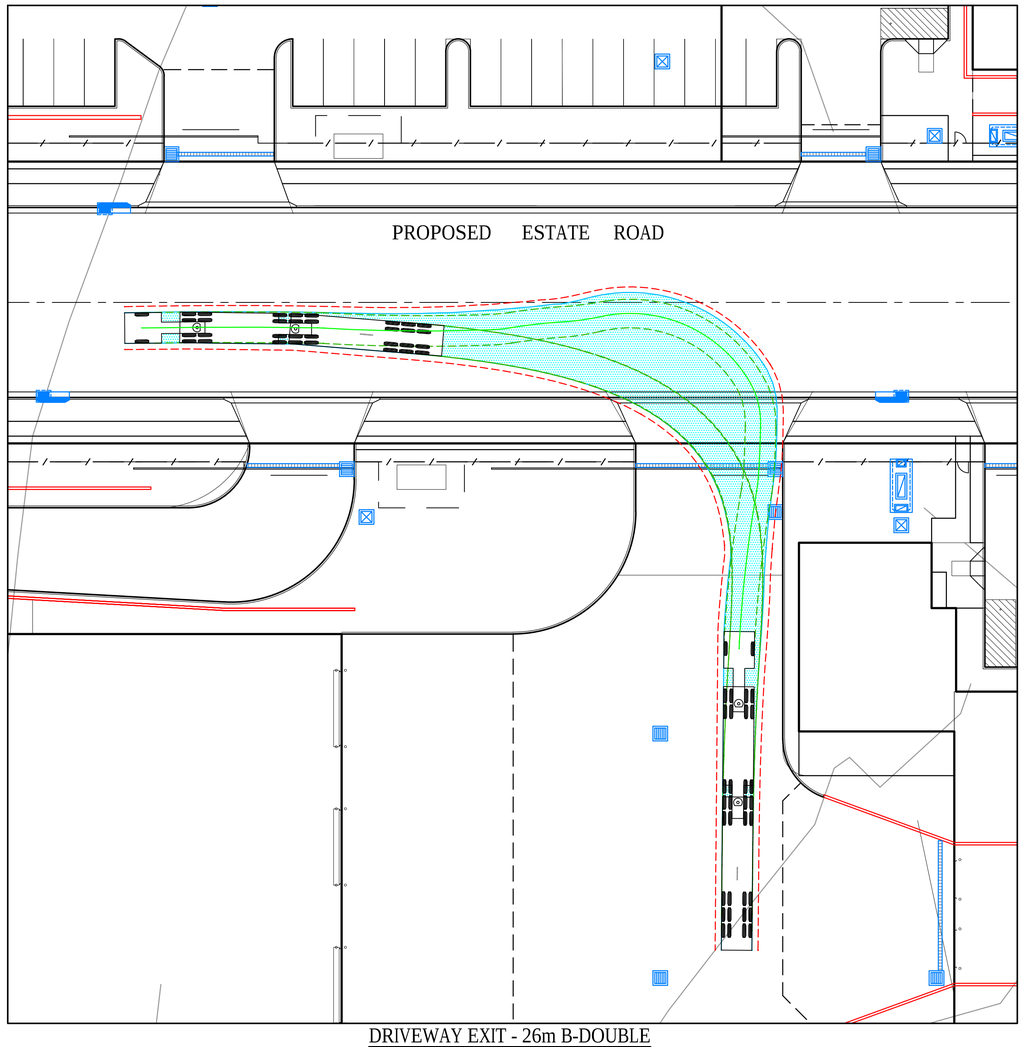
100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1070.dwg



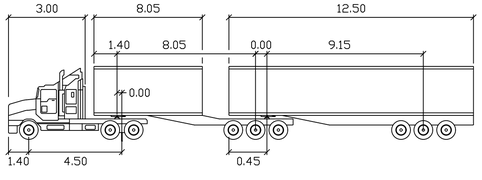
DRIVEWAY ENTRY - 26m B-DOUBLE

SCALE 1:250



DRIVEWAY EXIT - 26m B-DOUBLE

SCALE 1:250



B-DOUBLE 26M

meters

Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 23.4
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

TURNPATH PLAN - SHEET 1

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

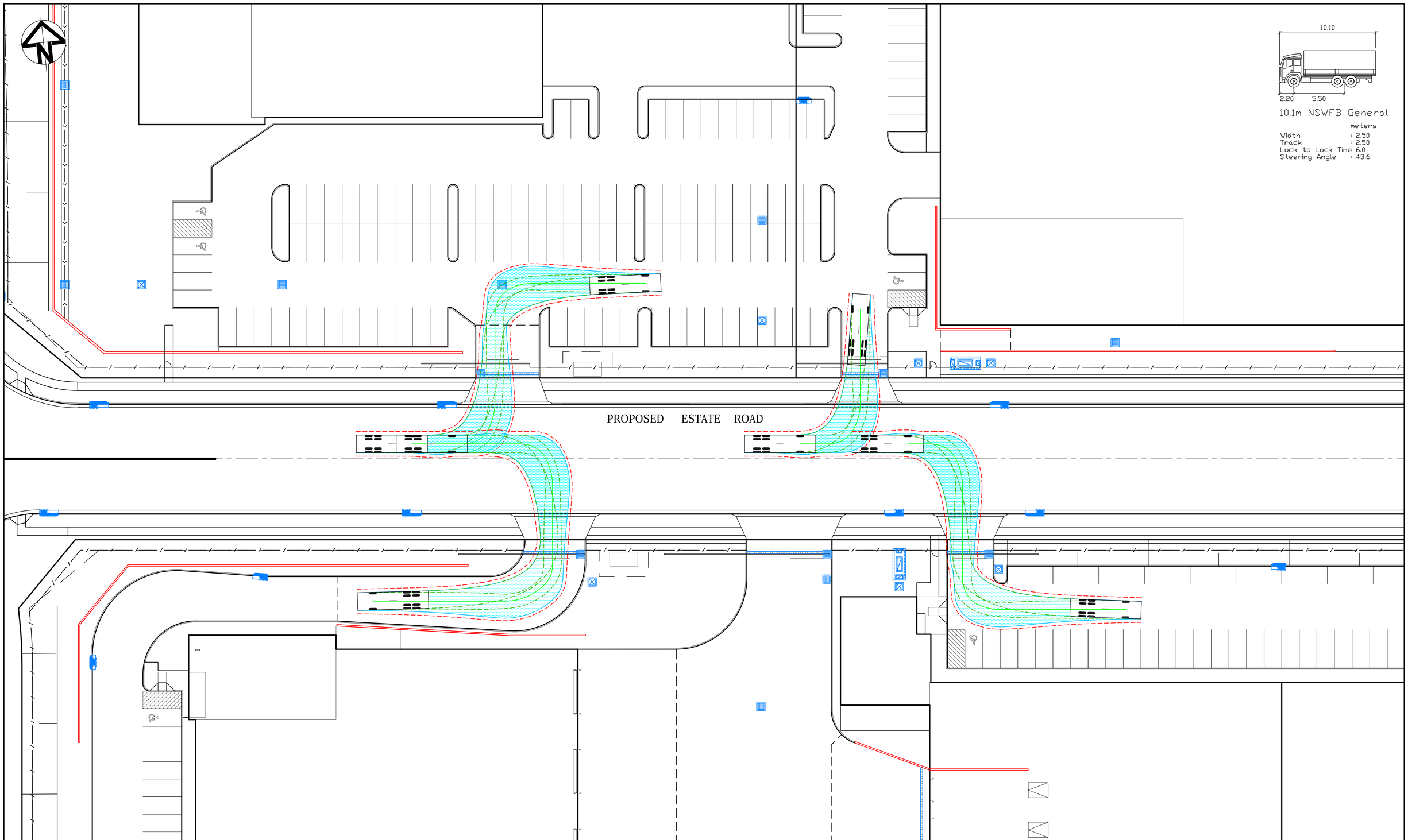
Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1090

Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1090.dwg



DRIVEWAY ENTRY - 10.1m FIRE VEHICLE

SCALE 1:250

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: TURNPATH PLAN - SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

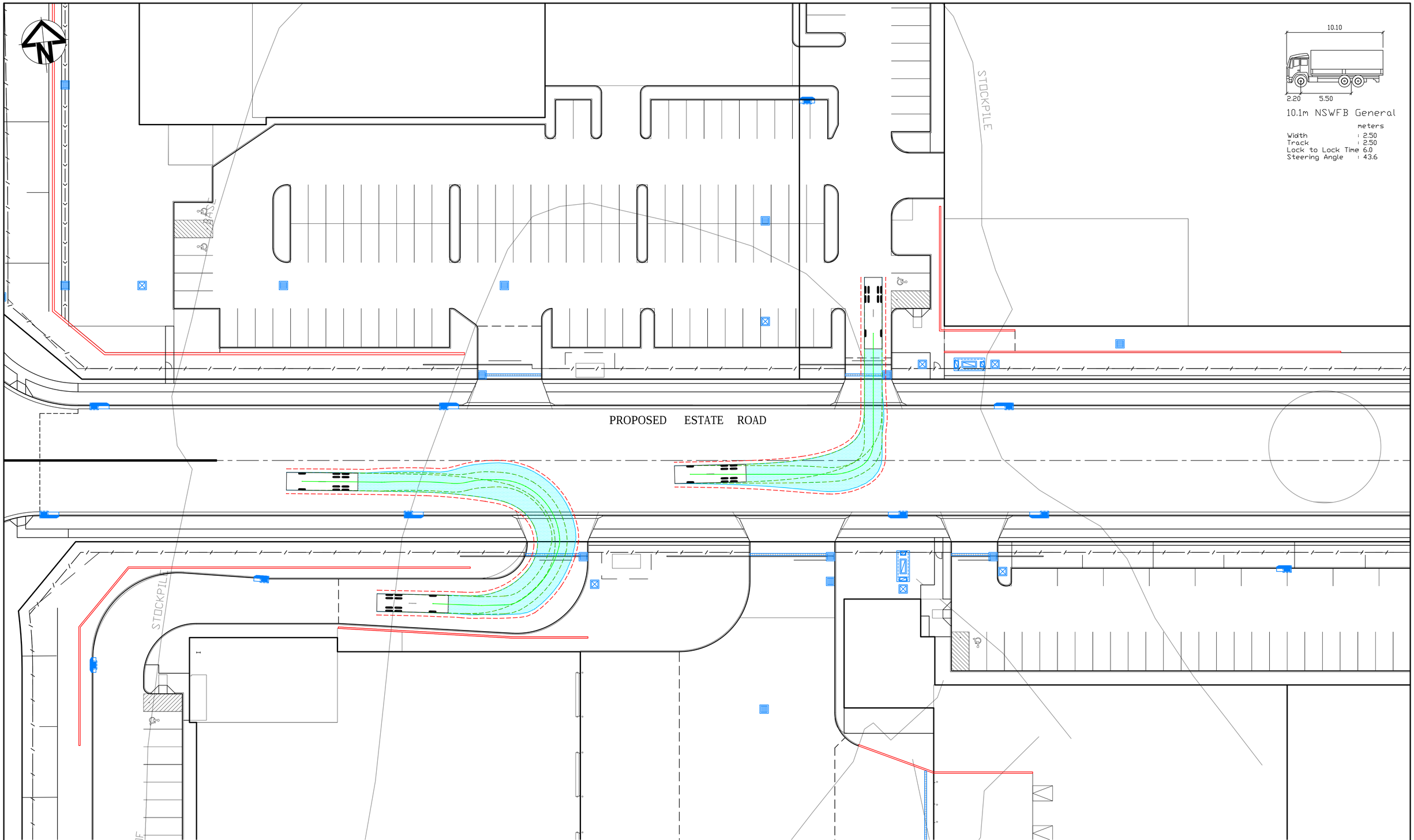
A1

Project No. - Drawing No.: 18-563-C1091

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1091.dwg



DRIVEWAY EXIT - 10.1m FIRE VEHICLE

SCALE 1:250

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	FX
Designed	FX
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

TURNPATH PLAN - SHEET 3

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

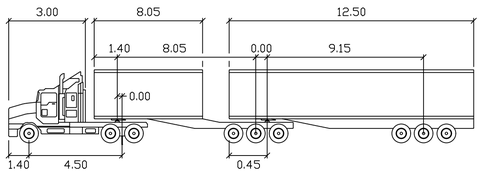
A1

Project No. - Drawing No.: 18-563-C1092

Issue: A

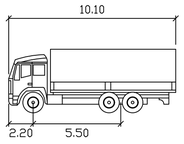
100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1092.dwg



B-DOUBLE 26M

	meters		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 23.4
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		



10.1m NSWFB General

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	6.0
Steering Angle	: 43.6

DRIVEWAY ENTRY/EXIT - 10.1m FIRE VEHICLE AND 26m B-DOUBLE

SCALE 1:250

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

TURNPATH PLAN - SHEET 4

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

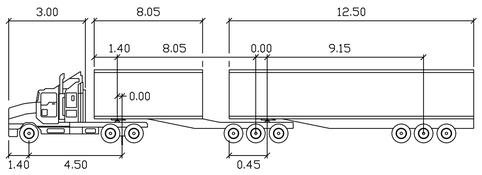
A1

Project No. - Drawing No.: 18-563-C1093

Issue: A

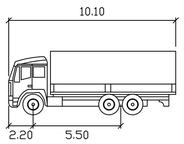
100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1093.dwg



B-DOUBLE 26M

	meters		
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 23.4
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		



10.1m NSWFB General

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	6.0
Steering Angle	: 43.6

DRIVEWAY ENTRY/EXIT - 10.1m FIRE VEHICLE AND 26m B-DOUBLE

SCALE 1:250

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250	Drawn	FX
		Designed	FX
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

TURNPATH PLAN - SHEET 5

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1094

Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1094.dwg

C1105

C1106

EXISTING
OAKDALE CENTRAL
SITE 2A
DP1173181

OAKDALE CENTRAL
SITE 1A
DP1173181

PROPOSED ROAD DEAIGN BY CSR
DENOTED IN RED

MILLNER AVE

OLD WALLGROVE ROAD

MC01

MC02

CH 0.000

CH10.000

CH320.185

CH 373.461

1 C1101 100

2 C1101 200

3 C1102 300

FUTURE SOUTHERN LINK ROAD

FUTURE ESTATE ROAD

EXISTING
AUSTRAL BRICKS SITE
LOT 1
DP843901

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 15 30 45 60 75m

15 10 5

1 : 750 @ A1 1 : 1500 @ A3

Client

Goodman

Scales	1 : 750
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

OWR UPGRADE GENERAL ARRANGEMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

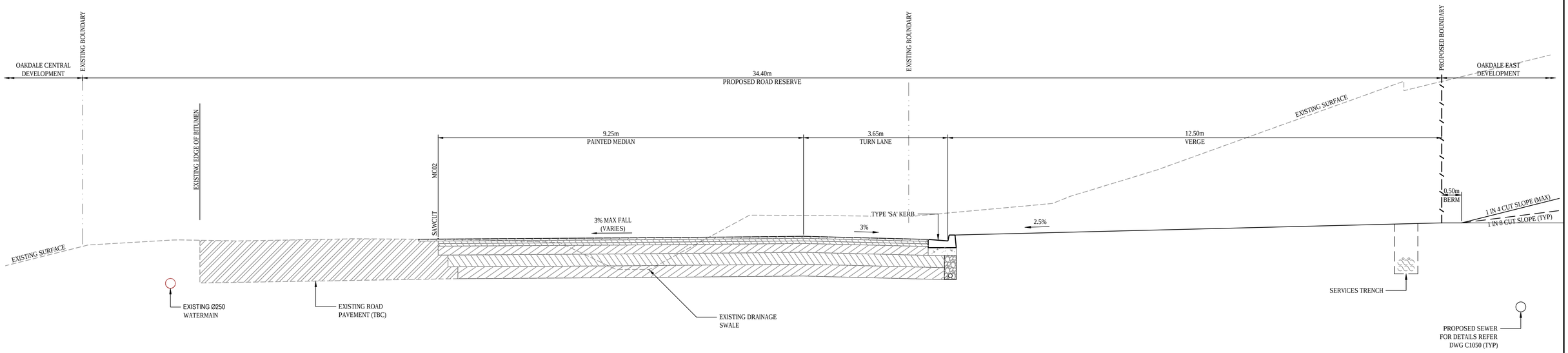
A1

Project No. - Drawing No.
18-563-C1100

Issue
A

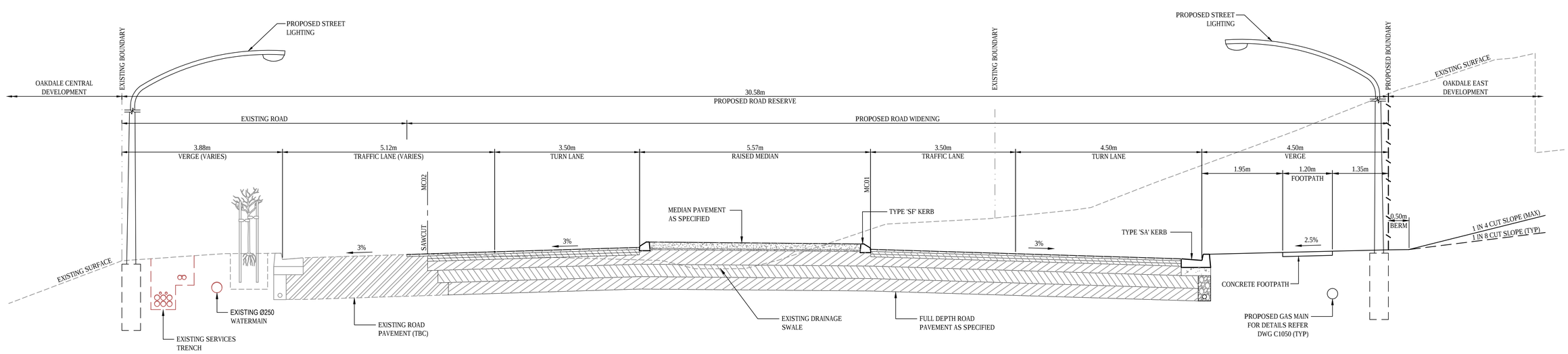
100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1100.dwg



SECTION 1
1 : 50
C1100, C1105

OLD WALLGROVE ROAD
TYPICAL SECTION (CONTROL MC01 - CH 140)



SECTION 2
1 : 50
C1100, C1106

OLD WALLGROVE ROAD
TYPICAL SECTION (CONTROL MC01 - CH 225)

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

Client

Goodman

Scales	1 : 50
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
OWR UPGRADE TYPICAL ROAD SECTIONS SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

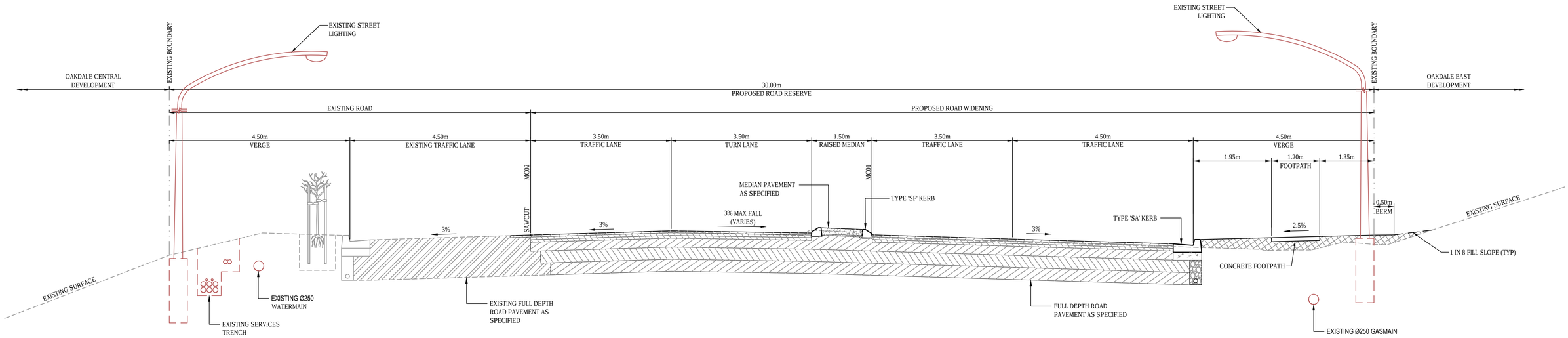
A1

Project No. - Drawing No.
18-563-C1101

Issue
A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1101.dwg



SECTION 3 (C1100, C1106)
1 : 50

OLD WALLGROVE ROAD
TYPICAL SECTION (CONTROL MC01 - CH 330)

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 1 2 3 4 5m

1 : 50 @ A1 1 : 100 @ A3

Client: Goodman

Scales	1 : 50	Drawn	AD
		Designed	AD
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: OWR UPGRADE TYPICAL ROAD SECTIONS SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1102

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1102.dwg

FUTURE SOUTHERN LINK ROAD

EXISTING OAKDALE CENTRAL SITE 2A
DP1173181

Ø600 PRECAST HEADWALL

EXISTING STORMWATER GULLY PIT WITH 3 x Ø150 TO EXISTING HEADWALL TO REMAIN

EXISTING STORMWATER PIT AND AND 2 x Ø225 RCP TO REMAIN

FUTURE OLD WALLGROVE ROAD DENOTED IN ORANGE

EXISTING STORMWATER TO BE CAPPED & BURIED

PROPOSED ROAD DESIGN BY CSR

OLD WALLGROVE ROAD

CONTROL LINE (MC02)

CONTROL LINE (MC01)

MC01

MC02

SAWCUT

LIMIT OF WORKS

EXISTING BOUNDARY TO BE REMOVED

EXISTING GAS MAIN TO BE RELOCATED. REFER TO DWG C1050 FOR LOCATION

PROPOSED ROAD BOUNDARY

EXISTING OVERHEAD ENDEAVOUR ENERGY ELECTRICITY LINE TO BE RELOCATED. REFER TO DWG C1050 FOR LOCATION

EXISTING GROUP OF TREES TO BE REMOVED (TYP)

EXISTING OH ELECTRICAL TO BE REMOVED

TRANSITION KERB AND GUTTER TYPE KERB TO KERB AND TOE OVER 3m

FUTURE ESTATE ROAD

FOR CONTINUATION REFER SHEET 2

CH 0.000

CH 10.000

CH 52.937

CH 79.707

CH 99.009

TC 48.725

TC 29.860

CT 67.373

SAG 112.643

CT 151.637

SAG 147.939

K\10 K\9 K\8 K\7 K\6 K\5 K\4 K\3 M\1

Ø600 Ø525 Ø450 Ø375

LEGEND

EXISTING

- CONTOUR (68.00)
- FENCE
- TREE
- TREE (TO BE REMOVED)
- BOUNDARY
- EXISTING BOUNDARY TO BE ADJUSTED

PROPOSED

- PROPOSED BOUNDARY
- PROPOSED CONTOUR (0.1m INTERVAL) (74.2)
- SAWCUT — PAVEMENT SAWCUT
- SA — RMS TYPE 'SA' KERB
- SF — RMS TYPE 'SF' KERB
- SF(ACO) — ACO QK200 DRAIN
- PR — PRAM RAMP
- GRASS LINED CATCH DRAIN
- PROPOSED LIGHTPOLE

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250	Drawn	AD
		Designed	AD
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: OWR UPGRADE ROADWORKS AND STORMWATER PLAN SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1105

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1105.dwg

EXISTING OAKDALE CENTRAL SITE 2A
DP1173181

FOR CONTINUATION REFER SHEET 1

FUTURE OLD WALLGROVE ROAD DENOTED IN ORANGE

OLD WALLGROVE ROAD

CONTROL LINE (MC02)
L252.812

CONTROL LINE (MC01)
L106.628

MC02

MC01

SAWCUT

SF

SA

Ø375

R-1000.000
L19.458

5°9'39"
L26.812

R998.895
L19.456

6°16'35"

L\1

L\2

EXISTING BOUNDARY TO BE REMOVED

TRANSITION 'SA' TYPE KERB TO KERB AND TOE OVER 3m

EXISTING GROUP OF TREES TO BE REMOVED (TYP)

EXISTING OVERHEAD ENDEAVOUR ENERGY ELECTRICITY LINE TO BE RELOCATED. REFER TO DWG C1050 FOR LOCATION

PROPOSED ROAD BOUNDARY

EXISTING GAS MAIN TO BE RELOCATED. REFER TO DWG C1050 FOR LOCATION

SAWCUT LIMIT OF WORKS

TC 201.107

CT 220.566

CH 247.378

CT 266.834

CREST 253.000

CREST 309.769

MILLNER AVENUE

CH320.185

CH 373.461

AUSTRAL BRICKWORKS SITE
LOT 1
DP843901

150 200 250 300 350

2 C1101

3 C1102

LEGEND

EXISTING

- CONTOUR (68.00)
- FENCE
- TREE
- TREE (TO BE REMOVED)
- BOUNDARY
- EXISTING BOUNDARY TO BE ADJUSTED

PROPOSED

- PROPOSED BOUNDARY
- PROPOSED CONTOUR (0.1m INTERVAL) (74.2)
- SAWCUT — PAVEMENT SAWCUT
- SA — RMS TYPE 'SA' KERB
- SF — RMS TYPE 'SF' KERB
- SF(ACO) — ACO QK200 DRAIN
- PR — PRAM RAMP
- GRASS LINED CATCH DRAIN
- PROPOSED LIGHTPOLE

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: OWR UPGRADE ROADWORKS AND STORMWATER PLAN SHEET 2

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1106

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1106.dwg

EXISTING OAKDALE
CENTRAL SITE 2A
DP1173181

MILLNER AVE

PROPOSED ROAD DESIGN BY CSR

OLD WALLGROVE ROAD

PROPOSED OAKDALE
EAST DEVELOPMENT

EXISTING
AUSTRAL BRICKS SITE
LOT 1
DP843901

FUTURE ESTATE ROAD

PAVEMENT LEGEND

ROAD PAVEMENT TYPE 1
- 50mm THICKNESS AC14 (A15E) ON
- 65mm THICKNESS AC20 (C320) ON
- 65mm THICKNESS AC20 (C320) ON
- 7mm PRIMERSEAL (R106) ON
- 260mm CEMENT STABILISED BASE COURSE (DGB20, 3% BY MASS, E=3,500MPa, R73) ON
- 300mm THICKNESS CONTROLLED SUBGRADE (4% HYDRATED LIME)

MILL AND RESHEET

SHARED PATH TYPE 1
- 150mm THICKNESS N25 CONCRETE (1 LAYER F72 MESH) ON
- 150mm THICKNESS DGB20 COMPACTED ROAD BASE

REFER TO COUNCIL STANDARDS FOR JOINTING DETAILS.

SHARED PATH TYPE 2
- 100mm THICKNESS N25 CONCRETE (1 LAYER F72 MESH) ON
- 100mm THICKNESS DGB20 COMPACTED ROAD BASE

REFER TO COUNCIL STANDARDS FOR JOINTING DETAILS.

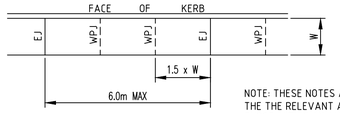
RAISED MEDIAN INFILL
- 125mm THICKNESS N25 CONCRETE (1 LAYER SL82 MESH) ON
- 100mm THICKNESS DGB20 COMPACTED ROAD BASE

LANDSCAPING
ALL DISTURBED AREAS TO BE RE-TURFED WITH 100mm TOPSOIL UNLESS NOTED OTHERWISE.
REFER TO LANDSCAPE PLANS FOR DETAILS

JOINTING NOTES

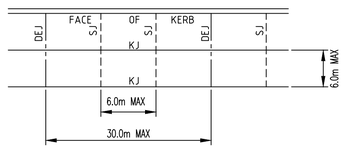
PEDESTRIAN / MEDIAN PAVEMENT JOINTS

1. ALL PEDESTRIAN / MEDIAN PAVEMENTS ARE TO BE JOINTED AS FOLLOWS. (U.N.O)
2. EXPANSION JOINTS ARE TO BE LOCATED WHERE POSSIBLE AT TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX. 6.0m CENTRES.
3. WEAKENED PLANE JOINTS ARE TO BE LOCATED AT A MAX. SPACING OF 1.5 x WIDTH OF THE PAVEMENT.
4. WHERE POSSIBLE JOINTS SHOULD BE LOCATED TO MATCH KERBING AND OR ADJACENT PAVEMENT JOINTS.
5. PEDESTRIAN PAVEMENT JOINT DETAIL.



VEHICULAR PAVEMENT JOINTS

6. ALL VEHICULAR PAVEMENTS TO BE JOINTED AS FOLLOWS. (U.N.O)
7. KEYED CONSTRUCTION JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES
8. SAWN JOINTS SHOULD GENERALLY BE LOCATED AT A MAX OF 6.0m CENTRES WITH DOWELED EXPANSION JOINTS AT MAX 30.0m CENTRES
9. VEHICULAR PAVEMENT JOINT DETAIL.



NOTE: THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE CONSTRUCTION SPECIFICATION FOR THE THE RELEVANT AUTHORITY. WHERE A DISCREPANCY EXISTS BETWEEN THESE NOTES AND THOSE WITHIN AN AUTHORITY SPECIFICATION, THE AUTHORITY SPECIFICATION MUST BE ADOPTED.

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client: Goodman

Scales	1 : 500
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: OWR UPGRADE PAVEMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

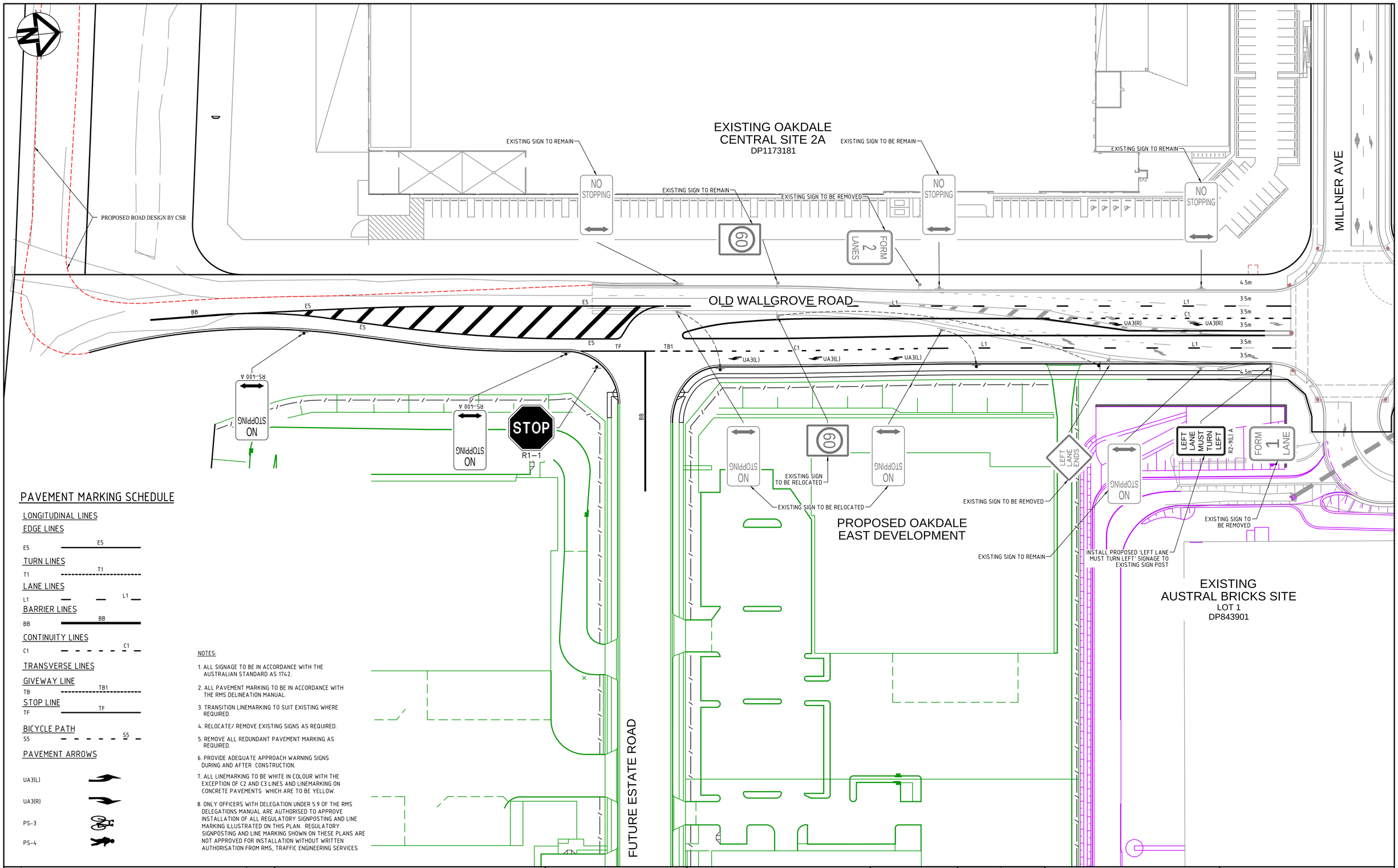
A1

Project No. - Drawing No.: 18-563-C1110

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1110.dwg



PAVEMENT MARKING SCHEDULE

LONGITUDINAL LINES

EDGE LINES

E5 — E5

TURN LINES

T1 — T1

LANE LINES

L1 — L1

BARRIER LINES

BB — BB

CONTINUITY LINES

C1 — C1

TRANSVERSE LINES

GIVEWAY LINE

TB — TB1

STOP LINE

TF — TF

BICYCLE PATH

S5 — S5

PAVEMENT ARROWS

UA3(L)

UA3(R)

PS-3

PS-4

NOTES:

1. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARD AS 1742.
2. ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH THE RMS DELINEATION MANUAL.
3. TRANSITION LINEMARKING TO SUIT EXISTING WHERE REQUIRED.
4. RELOCATE/ REMOVE EXISTING SIGNS AS REQUIRED.
5. REMOVE ALL REDUNDANT PAVEMENT MARKING AS REQUIRED.
6. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING AND AFTER CONSTRUCTION.
7. ALL LINEMARKING TO BE WHITE IN COLOUR WITH THE EXCEPTION OF C2 AND C3 LINES AND LINEMARKING ON CONCRETE PAVEMENTS WHICH ARE TO BE YELLOW.
8. ONLY OFFICERS WITH DELEGATION UNDER 5.9 OF THE RMS DELEGATIONS MANUAL ARE AUTHORISED TO APPROVE INSTALLATION OF ALL REGULATORY SIGNPOSTING AND LINE MARKING ILLUSTRATED ON THIS PLAN. REGULATORY SIGNPOSTING AND LINE MARKING SHOWN ON THESE PLANS ARE NOT APPROVED FOR INSTALLATION WITHOUT WRITTEN AUTHORISATION FROM RMS, TRAFFIC ENGINEERING SERVICES

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client: Goodman

Scales	1 : 500
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: OWR UPGRADE PAVEMENT MARKING AND SIGNPOSTING PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1111

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1111.dwg

EXISTING OAKDALE
CENTRAL SITE 2A
DP1173181

MILLNER AVE

PROPOSED ROAD DESIGN BY CSR

OLD WALLGROVE ROAD

EX/1
0.297ha

EX/2
0.041ha

EX/3
0.054ha

K/7
0.097ha

K/6
0.075ha

K/5
0.059ha

K/4
0.162ha

K/3
0.059ha

K/2
0.057ha

K/1
0.051ha

L/2
0.106ha

L/1
0.092ha

M/1
0.057ha

FUTURE ESTATE ROAD

PROPOSED OAKDALE
EAST DEVELOPMENT

EXISTING
AUSTRAL BRICKS SITE
LOT 1
DP843901

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client: Goodman

Scales	1 : 500	Drawn	AD
		Designed	AD
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
OWR UPGRADE STORMWATER CATCHMENT PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1112

Issue
A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1112.dwg

EXISTING OAKDALE
CENTRAL SITE 2A
DP1173181

MILLNER AVE

PROPOSED ROAD DESIGN BY CSR

OLD WALLGROVE ROAD

PROPOSED OAKDALE
EAST DEVELOPMENT

FUTURE ESTATE ROAD

EXISTING
AUSTRAL BRICKS SITE
LOT 1
DP843901

LEGEND

- SEDIMENT FENCE (SD 6-8)
- TEMPORARY CATCH DRAIN (SD 5-5)
- BARRIER FENCE
- HAYBALE AND GEOTEXTILE SEDIMENT FILTER (SD 6-7)
- MESH AND GRAVEL INLET FILTER (SD 6-11)
- GEOTEXTILE FILTER PIT SURROUND (SD 6-12)
- STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)

NOTE
- REFER TO DRAWING C1039 FOR DETAILS

EROSION AND SEDIMENT CONTROL PLANS ARE FOR INFORMATION ONLY AND HAVE BEEN ISSUED AS AN OVERALL GUIDE. CONTRACTOR TO PREPARE AND INSTALL THEIR OWN STAGED EROSION AND SEDIMENT CONTROL PLANS AND MEASURES PRIOR TO CONSTRUCTION.

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client: Goodman

Scales	1 : 500
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title
OWR UPGRADE
EROSION AND SEDIMENT CONTROL PLAN

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

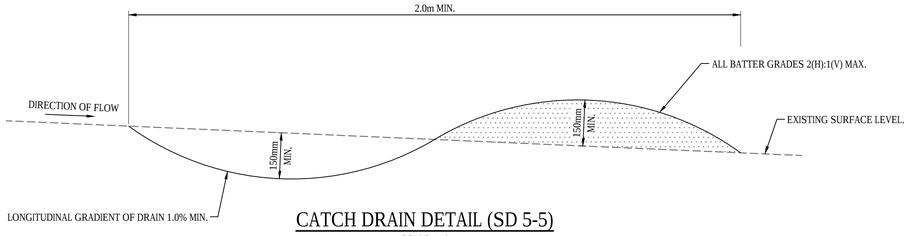
A1

Project No. - Drawing No.: 18-563-C1113

Issue: A

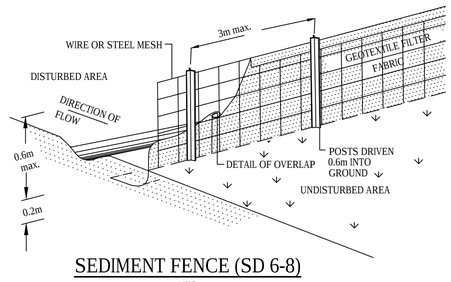
100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1113.dwg



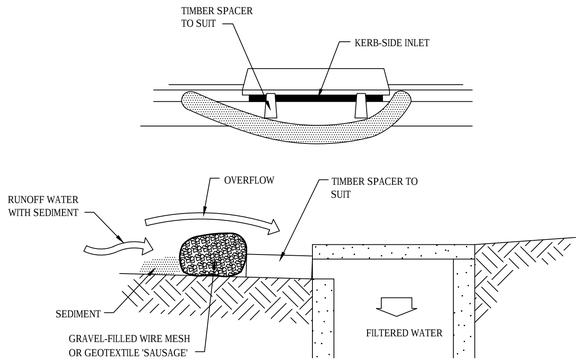
CATCH DRAIN DETAIL (SD 5-5)

SCALE 1:10



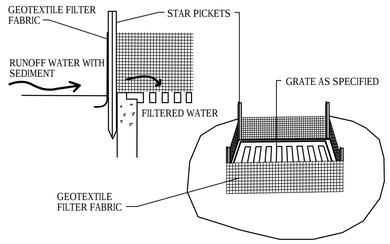
SEDIMENT FENCE (SD 6-8)

NTS



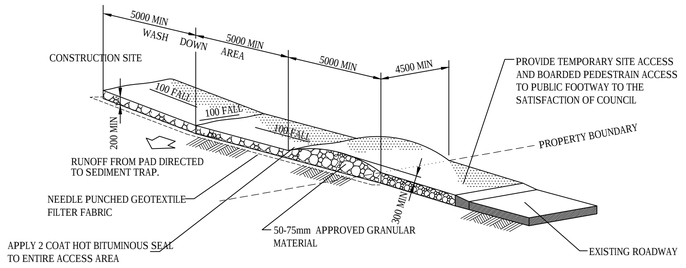
MESH AND GRAVEL INLET FILTER (SD 6-11)

NTS



GEOTEXTILE FILTER PIT SURROUND (SD 6-12)

NTS



STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)

NTS

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

100mm on Original

Client

Goodman

Scales	NTS
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT
OAKDALE EAST

Title

OWR UPGRADE
EROSION AND SEDIMENT CONTROL DETAILS

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

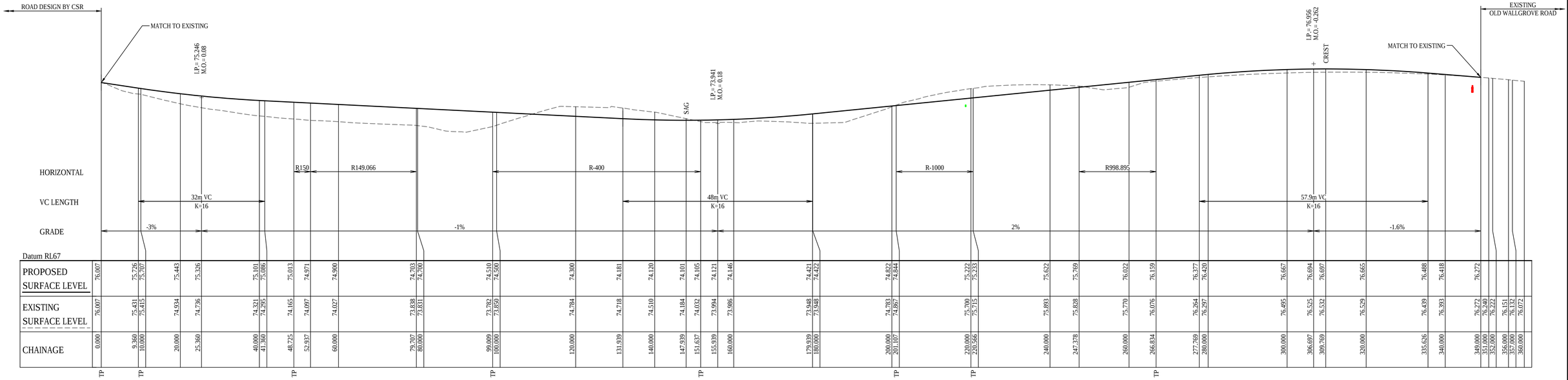
Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1114

Issue
A

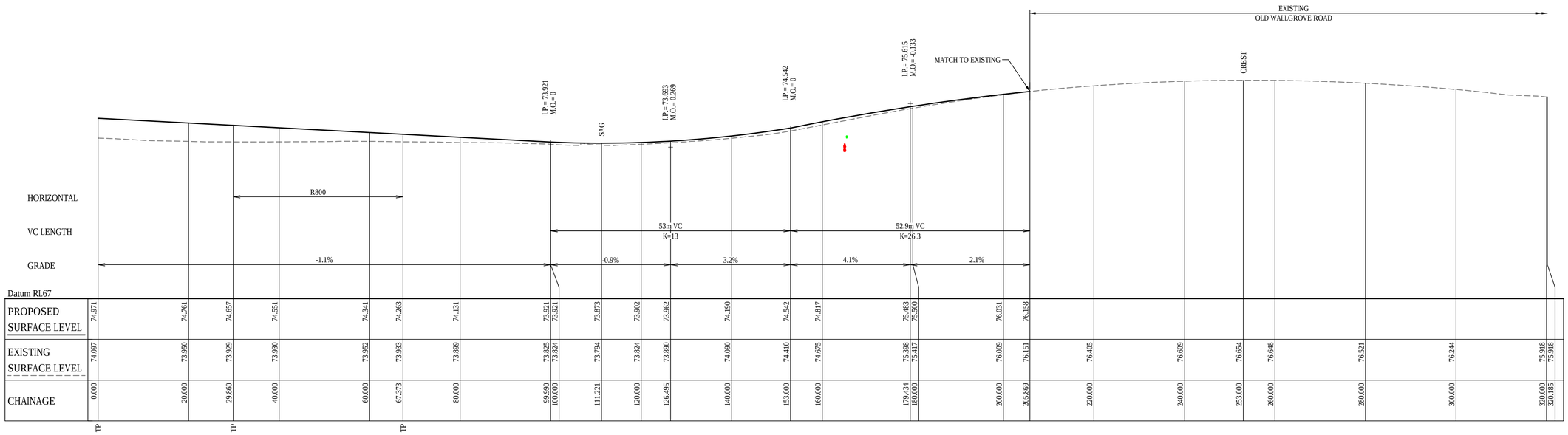
F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1114.dwg



CHAINAGE	PROPOSED SURFACE LEVEL	EXISTING SURFACE LEVEL
0.000	76.907	76.907
9.360	75.726	75.431
10.000	75.707	75.415
20.000	75.443	74.934
25.360	75.326	74.736
40.000	75.101	74.321
41.360	75.086	74.295
48.725	75.013	74.165
52.937	74.971	74.097
60.000	74.900	74.027
79.707	74.703	73.838
80.000	74.700	73.831
99.009	74.510	73.782
100.000	74.500	73.850
120.000	74.300	74.784
131.939	74.181	74.718
140.000	74.120	74.510
147.939	74.101	74.184
151.637	74.105	74.032
155.939	74.121	73.994
160.000	74.146	73.986
179.939	74.421	73.948
180.000	74.422	73.948
200.000	74.822	74.783
201.107	74.844	74.867
220.000	75.222	75.700
220.366	75.233	75.715
240.000	75.622	75.893
247.378	75.769	75.828
260.000	76.022	75.770
266.834	76.159	76.076
277.769	76.377	76.364
280.000	76.420	76.297
300.000	76.667	76.495
306.697	76.694	76.525
309.769	76.697	76.532
320.000	76.665	76.529
335.626	76.488	76.439
340.000	76.418	76.393
349.000	76.272	76.272
351.000	76.272	76.240
352.000	76.222	76.222
356.000	76.151	76.151
357.000	76.132	76.132
360.000	76.072	76.072

MC01 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.



CHAINAGE	PROPOSED SURFACE LEVEL	EXISTING SURFACE LEVEL
0.000	74.971	74.097
20.000	74.761	73.950
29.860	74.657	73.929
40.000	74.551	73.930
60.000	74.341	73.952
67.373	74.263	73.933
80.000	74.131	73.899
99.990	73.931	73.825
100.000	73.921	73.824
111.221	73.873	73.794
120.000	73.902	73.824
126.495	73.962	73.890
140.000	74.190	74.090
153.000	74.542	74.410
160.000	74.817	74.675
179.434	75.483	75.398
180.000	75.500	75.417
200.000	76.031	76.009
205.869	76.158	76.151
220.000	76.405	
240.000	76.609	
253.000	76.654	
260.000	76.648	
280.000	76.521	
300.000	76.244	
320.000	75.918	
320.185	75.918	

MC02 LONGITUDINAL SECTION

SCALE 1:500 HORI.
1:100 VERT.

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales	1 : 500 H 1 : 100 V
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project
PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title
OWR UPGRADE ROADWORKS LONGITUDINAL SECTION

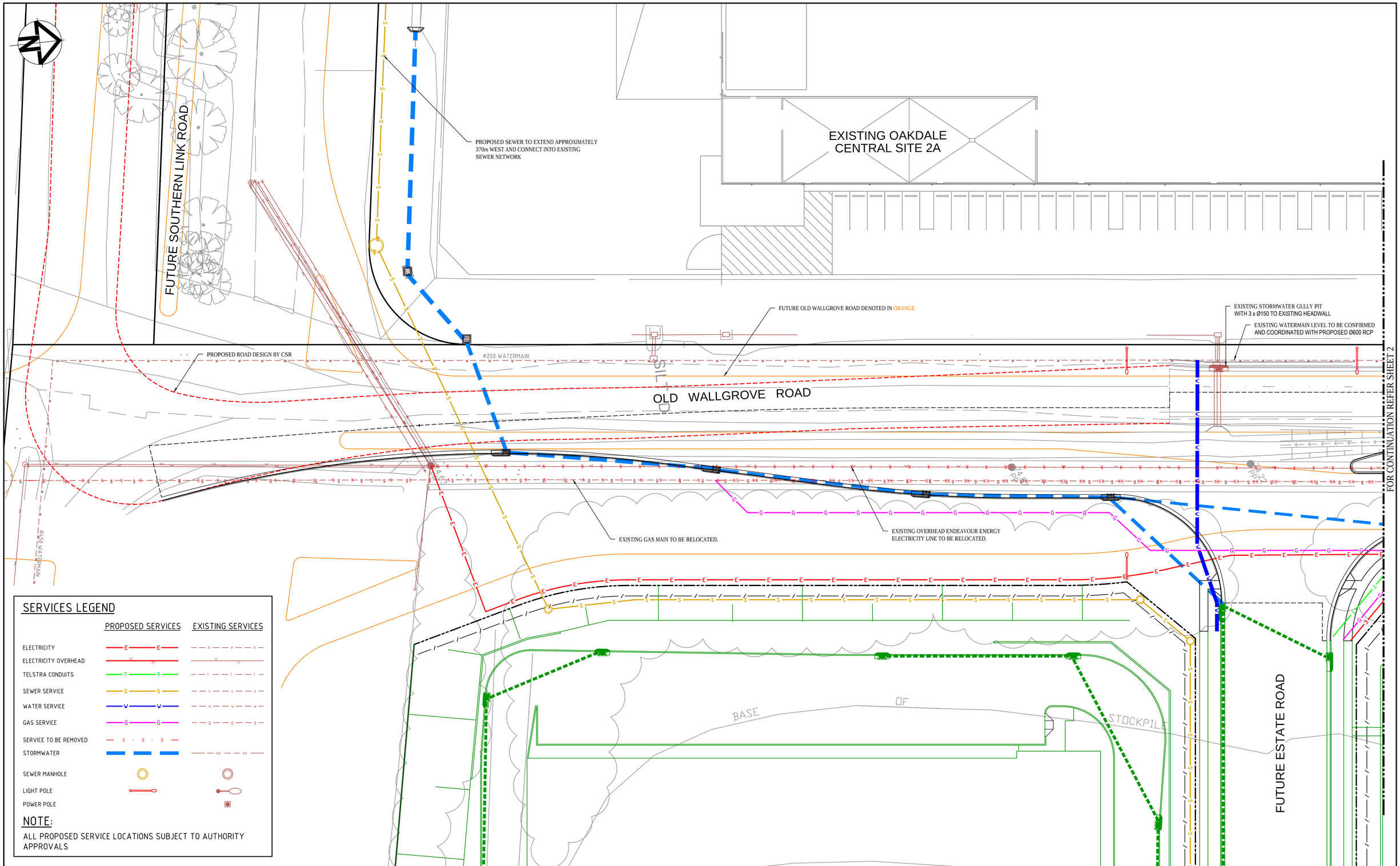
Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1

Project No. - Drawing No.: 18-563-C1120
Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1120.dwg



SERVICES LEGEND

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY	E E	e e e e
ELECTRICITY OVERHEAD	V A	V A
TELSTRA CONDUITS	T T	t t t t
SEWER SERVICE	S S	s s s s
WATER SERVICE	W W	w w w w
GAS SERVICE	G G	g g g g
SERVICE TO BE REMOVED	X X X	
STORMWATER	SW	SW
SEWER MANHOLE		
LIGHT POLE		
POWER POLE		

NOTE:

ALL PROPOSED SERVICE LOCATIONS SUBJECT TO AUTHORITY APPROVALS

Issue	Description	Date
A	FOR APPROVAL	08-03-18

100mm on Original

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client: Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: OWR UPGRADE SERVICES AND UTILITIES COORDINATION PLAN SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1130

Issue: A

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1130.dwg

EXISTING OAKDALE
CENTRAL SITE 2A

MILLNER AVENUE

OLD WALLGROVE ROAD

FOR CONTINUATION REFER SHEET 1

EXISTING OVERHEAD ENDEAVOUR ENERGY
ELECTRICITY LINE TO BE RELOCATED.

EXISTING GAS MAIN TO BE RELOCATED.
REFER TO DWG C1050 FOR LOCATION

AUSTRAL
BRICKWORKS
SITE

BASE

80.36
80.38
80.18
80.34
71.74

SERVICES LEGEND

	PROPOSED SERVICES	EXISTING SERVICES
ELECTRICITY	E E	e e
ELECTRICITY OVERHEAD	V V	v v
TELSTRA CONDUITS	T T	t t
SEWER SERVICE	S S	s s
WATER SERVICE	W W	w w
GAS SERVICE	G G	g g
SERVICE TO BE REMOVED	X X	
STORMWATER	SW SW	sw sw
SEWER MANHOLE		
LIGHT POLE		
POWER POLE		

NOTE:

ALL PROPOSED SERVICE LOCATIONS SUBJECT TO AUTHORITY APPROVALS

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 5 10 15 20 25m

1 : 250 @ A1 1 : 500 @ A3

Client

Goodman

Scales	1 : 250
Grid	MGA
Height Datum	AHD
Drawn	AD
Designed	AD
Checked	AM
Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

OWR UPGRADE
SERVICES AND UTILITIES
COORDINATION PLAN
SHEET 2

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

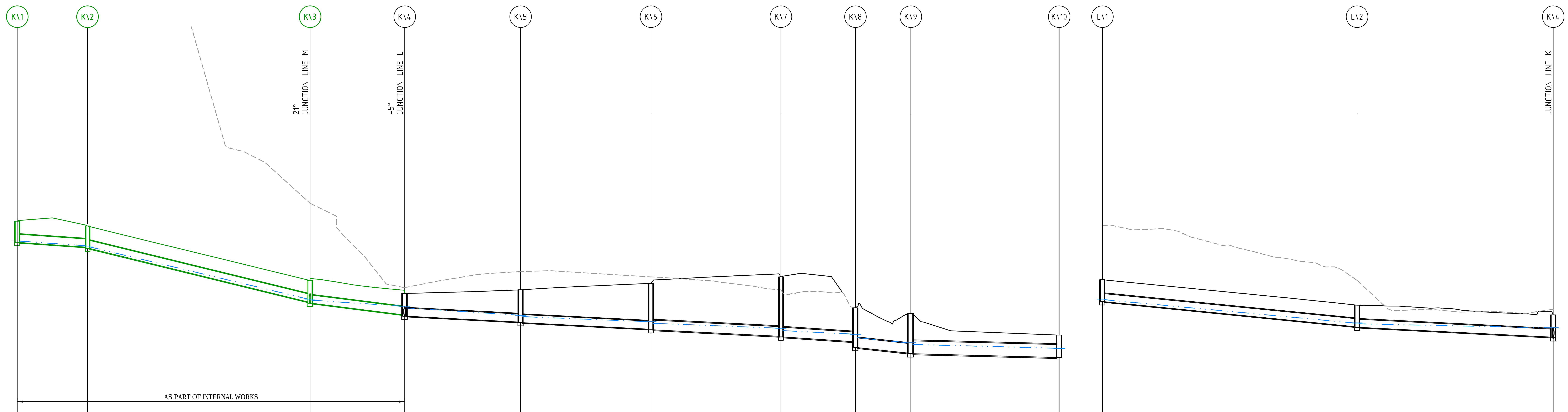
A1

Project No. - Drawing No.: 18-563-C1131

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1131.dwg



LINE K

Datum R.L 53.00

	K\1	K\2	K\3	K\4	K\5	K\6	K\7	K\8	K\9	K\10
DEPTH TO INVERT	1.059 / 1.059	0.976 / 1.039 / 1.039	0.995 / 1.055 / 1.055	0.987 / 1.057 / 1.057	1.491 / 1.521 / 1.521	2.124 / 2.154 / 2.154	2.750 / 2.780 / 2.780	1.566 / 1.839 / 1.839	1.838 / 1.868 / 1.868	1.040 / 1.040 / 1.040
H.G.L. LEVEL	76.410 / 76.396	76.182 / 76.170 / 76.133	73.707 / 73.710 / 73.655	73.378 / 73.380 / 73.300	72.965 / 72.960 / 72.897	72.660 / 72.660 / 72.585	72.358 / 72.360 / 72.246	72.083 / 72.080 / 71.925	71.677 / 71.680 / 71.605	71.430 / 71.430 / 71.430
INVERT LEVEL	76.334	76.120 / 76.057	73.576 / 73.516	72.983 / 72.913	72.645 / 72.615	72.313 / 72.283	71.982 / 71.952	71.732 / 71.459	71.202 / 71.172	71.000 / 71.000
TOP OF PIT LEVEL	77.323	77.096	74.571	73.970	74.136	74.437	74.732	73.298	73.040	72.040
EXISTING SURFACE SURFACE	95.558	95.690	78.151	74.239	74.986	74.735	74.132	73.298	73.040	72.040
CHAINAGE	0.000	16.287	67.839	89.778	116.611	146.824	176.919	194.195	207.027	241.401

	K\1–K\2	K\2–K\3	K\3–K\4	K\4–K\5	K\5–K\6	K\6–K\7	K\7–K\8	K\8–K\9	K\9–K\10
FLOW (m^3/s)	0.01	0.03	0.08	0.19	0.22	0.25	0.28	0.4	0.43
VELOCITY (m/s)	1	2.1	2.1	1.9	2.1	2.2	2.5	2.5	2
PIPE SIZE & CLASS	Ø375 RCP	Ø375 RCP	Ø375 RCP	Ø375 RCP	Ø375 RCP	Ø450 RCP	Ø450 RCP	Ø450 RCP	Ø600 RCP
GRADE (%)	1.3%	4.8%	2.4%	1%	1%	1%	1.3%	2%	0.5%
Length	L=16.287	L=51.552	L=21.939	L=26.834	L=30.212	L=30.095	L=17.276	L=12.832	L=34.373

LINE L

Datum R.L 54.00

	L\1	L\2	K\4
DEPTH TO INVERT	1.020 / 1.020	1.002 / 1.032 / 1.032	1.029 / 1.059 / 1.059
H.G.L. LEVEL	74.710 / 74.679	73.595 / 73.600 / 73.561	73.378 / 73.380 / 73.300
INVERT LEVEL	74.586	73.427 / 73.397	72.943 / 72.913
TOP OF PIT LEVEL	75.606	74.429	73.972
EXISTING SURFACE SURFACE	78.119	75.578	74.239
CHAINAGE	0.000	59.005	104.437

	L\1–L\2	L\2–K\4
FLOW (m^3/s)	0.03	0.07
VELOCITY (m/s)	1.6	1.5
PIPE SIZE & CLASS	Ø375 RCP	Ø375 RCP
GRADE (%)	2%	1%
Length	L=59.005	L=45.432

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales
0 10 20 30 40 50m — 1 : 500 @ A1 1 : 1000 @ A3
0 2 4 6 8 10m — 1 : 100 @ A1 1 : 200 @ A3

Client: Goodman

Scales: 1 : 500 H, 1 : 100 V
Grid: MGA
Height Datum: AHD
Drawn: AD
Designed: AD
Checked: AM
Approved: AM

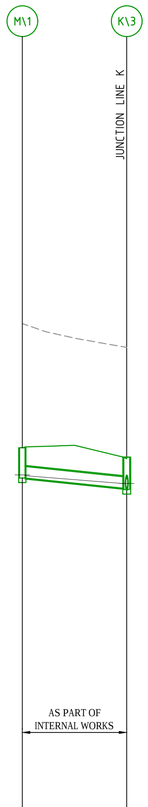
Project: PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title: OWR UPGRADE STORMWATER LONGITUDINAL SECTION SHEET 1

Civil Engineers and Project Managers
at&l
Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION
A1
Project No. - Drawing No.: 18-563-C1140
Issue: A

100mm on Original



FLOW (m³/s)		0.02	
VELOCITY (m/s)		1.4	
PIPE SIZE & CLASS		ø375 RCP	
GRADE (%)		2%	
Datum R.L		55.00	
DEPTH TO INVERT	0.986	0.986	1.017 1.055
H.G.L. LEVEL	73.990	73.967	73.707 73.710 73.655 1.055
INVERT LEVEL		73.891	73.554 73.516
TOP OF PIT LEVEL	74.877		74.571
EXISTING SURFACE SURFACE	78.931		78.151
CHAINAGE	0.000	L=17.050	17.050

LINE M

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

0 2 4 6 8 10m

1 : 100 @ A1 1 : 200 @ A3

Client

Goodman

Scales	1 : 500 H 1 : 100 V	Drawn	AD
		Designed	AD
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL DEVELOPMENT OAKDALE EAST

Title

OWR UPGRADE STORMWATER LONGITUDINAL SECTION SHEET 2

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status: FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.: 18-563-C1141

Issue: A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1141.dwg

EXISTING OAKDALE
CENTRAL SITE 2A
DP1173181

MILLNER AVE

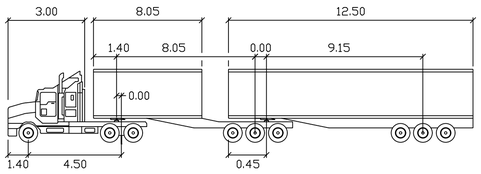
PROPOSED ROAD DESIGN BY CSR

OLD WALLGROVE ROAD

PROPOSED OAKDALE
EAST DEVELOPMENT

EXISTING
AUSTRAL BRICKS SITE
LOT 1
DP843901

FUTURE ESTATE ROAD



B-DOUBLE 26M

meters

Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 2.50	Steering Angle	: 23.4
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 2.50		

Issue	Description	Date
A	FOR APPROVAL	08-03-18

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client

Goodman

Scales	1 : 500	Drawn	AD
		Designed	AD
Grid	MGA	Checked	AM
Height Datum	AHD	Approved	AM

Project

PROPOSED INDUSTRIAL
DEVELOPMENT
OAKDALE EAST

Title

OWR UPGRADE
TURNING PATH
PLAN

Civil Engineers and Project Managers

at&l

Level 7, 153 Walker Street
North Sydney NSW 2060
ABN 96 130 882 405
Tel: 02 9439 1777
Fax: 02 9923 1055
www.atl.net.au
info@atl.net.au

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

A1

Project No. - Drawing No.
18-563-C1150

Issue
A

100mm on Original

F:\18-563 Oakdale East\Drgs\Civil\Final\1000_DA Package\18-563-C1150.dwg