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Shaping the Future

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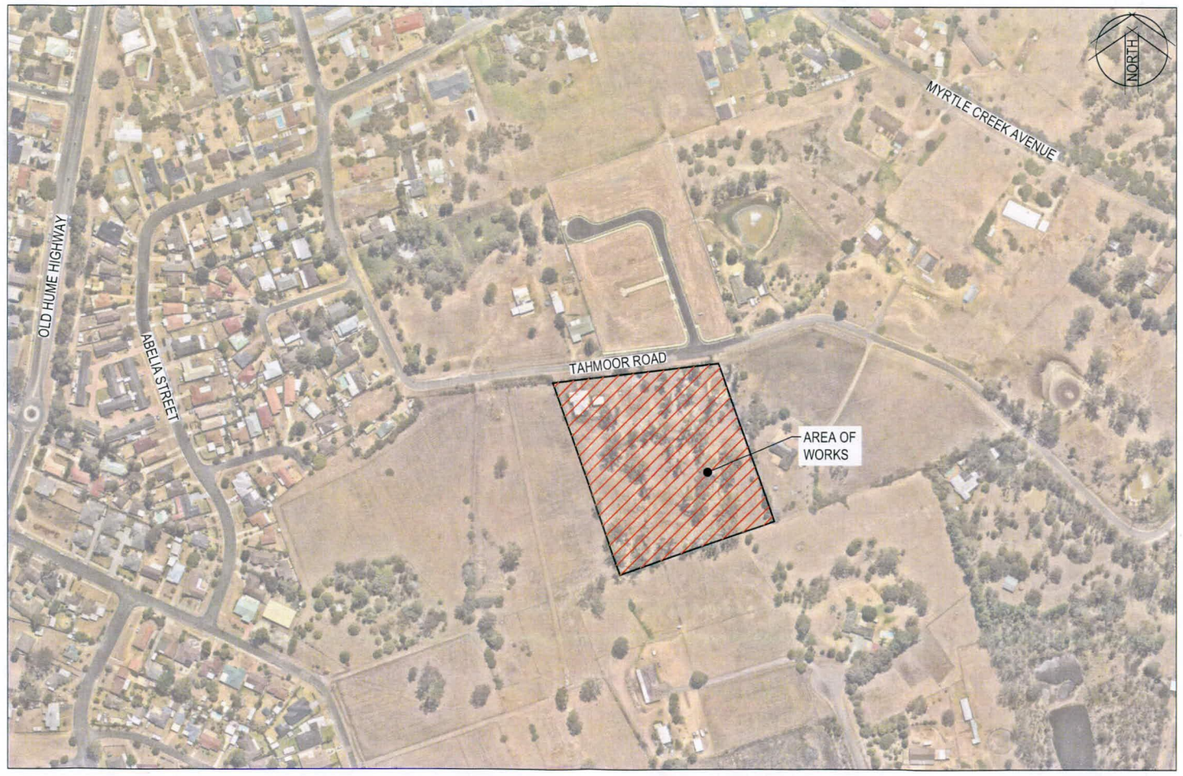
DATE PLOTTED: 13 April 2018 4:03 PM BY: MARY DOZA

FIRSTYLE HOMES

RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE



SCHEDULE OF DRAWINGS

DRAWING No.	DESCRIPTION
80218065-CI-1001	COVER SHEET AND DRAWING SCHEDULE
80218065-CI-1011	GENERAL NOTES AND LEGENDS
80218065-CI-1101	EROSION AND SEDIMENTATION CONTROL PLAN
80218065-CI-1131	EROSION AND SEDIMENTATION CONTROL DETAILS
80218065-CI-1141	CUT/FILL EARTHWORKS PLAN
80218065-CI-1151	DEMOLITION PLAN
80218065-CI-1251	TYPICAL ROAD CROSS SECTIONS AND PAVEMENT DETAILS
80218065-CI-1301	CIVIL WORKS AND STORMWATER DRAINAGE PLAN
80218065-CI-1351	ROAD LONGITUDINAL SECTIONS SHEET 1 TAHMOOR ROAD, ROAD 001, 002, & 003
80218065-CI-1352	ROAD LONGITUDINAL SECTIONS SHEET 2 ROAD 004
80218065-CI-1701	PAVEMENT, SIGNAGE AND LINEMARKING PLAN
80218065-CI-1801	SITE SECTIONS
80218065-CI-1851	REATAINING WALL LOCALITY PLAN
80218065-CI-2001	WSUD & OSD DETAILS
80218065-CI-2201	STORMWATER DRAINAGE DETAILS SHEET 1
80218065-CI-2202	STORMWATER DRAINAGE DETAILS SHEET 2
80218065-CI-2301	STORMWATER CATCHMENT PLAN

Rev.	Date	Description	Des.	Verif.	Appd.
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Datum	Scale	Size
AHD		A1

Drawing Number: 80218065-CI-1001
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GENERAL

1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH WOLLONDILLY SHIRE COUNCIL STANDARDS.

2. WOLLONDILLY SHIRE COUNCIL STANDARD DETAILS TO BE USED WHERE POSSIBLE.

3. UTILITY ADJUSTMENTS AT DEVELOPERS EXPENSE.

4. CONDUITS TO BE PLACED WHERE REQUIRED BY THE RELEVANT AUTHORITIES.

5. SUBSOIL DRAINAGE LINES TO BE PLACED AS INDICATED ON DRAWINGS.

6. A MINIMUM OF 3m OF SUBSOIL LINE SHALL BE LAID INTO UPSTREAM SIDE OF COUNCIL PITS

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 CARDNO.

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 COMPACTED 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, 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 50m³ OF BASECOURSE MATERIAL PLACED.

9. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S. FORM 3051, 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 50m³ 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 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF CARDNO.

11. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND 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.

BULK EARTHWORKS NOTES

1. ORIGIN OF LEVELS: REFER SURVEY NOTES
2. STRIP ALL TOPSOIL/ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY SUPERINTENDENT.
3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% OF THE OPTIMUM MOISTURE CONTENT.
4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DRY DENSITY (AS 1289 5.1.1.)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	98%

5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.
6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER).
7. FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN :-
   (A) 1 TEST PER 200m³ OF FILL PLACED PER 300 LAYER OF FILL.
   (B) 3 TESTS PER VISIT
   (C) 1 TEST PER 1000m³ OF EXPOSED SUBGRADE "LEVEL 1" TESTING SHALL BE TESTING IN ACCORDANCE WITH AS 3798 (1996).
8. FILLING TO BE PLACED IN MAXIMUM 150mm - LOOSE LAYERS AND COMPACTED AS SPECIFIED
9. NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF CARDNO AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, NSW OFFICE OF WATER, OFFICE OF ENVIRONMENT AND HERITAGE, THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.

2. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT.
   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 SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN (D) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
   d. 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.

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

OTHER MATTERS

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.

EXISTING UNDERGROUND SERVICES NOTES

THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAS 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 CARDNO 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.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY JOHN LOWE AND ASSOCIATES PTY LTD, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. CARDNO 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 CARDNO.

TELSTRA - DUTY OF CARE NOTE

TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR HOLD OUT THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY. THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT.
BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POTHOLING TO IDENTIFY IT'S LOCATION TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO IT'S PROPERTY AND LOSSES CAUSED TO TELSTRA AND IT'S CUSTOMERS.

STORMWATER DRAINAGE NOTES

1. STORMWATER DESIGN CRITERIA:
   (A) AVERAGE RECURRENCE INTERVAL:
   10 YEAR ARI ROADS AND LOTS
   100 YEAR ARI OSD BASINS
2. PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS. U.N.O.
3. PIPES 300 DIA AND LESS SHALL BE DWV GRADE (CLASS SN8) uPVC WITH SOLVENT WELDED JOINTS.
4. EQUIVALENT STRENGTH FRC PIPES MAY BE USED.
5. ALL PIPES ARE TO BE UNIFORMLY SUPPORTED ALONG THE LENGTH OF THE BARREL BY SUITABLE FILL MATERIAL. REFER TO BEDDING SUPPORT TYPE.
6. PIPES WITH SOCKETS SHALL BE LAID IN BEDDING WHERE SUITABLE RECESSES HAVE BEEN PROVIDED TO ENSURE PIPES DO NOT BEAR ON THEIR SOCKETS.
7. 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.
8. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3725 (2007) 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).
9. REFER TO AS/NRS 3725:2007 TABLE B1 FOR REQUIRED FILL DEPTHS ABOVE PIPE BARREL PRIOR TO USE OF COMPACTION MACHINERY OR TRAVERSING OF PIPES BY GENERAL SITE EQUIPMENT.
10. WHERE WORKING METHODS REQUIRE HIGHER CLASS PIPE, THE CONTRACTOR SHALL REFER TO AS 3725 (2007) TO DETERMINE THE APPROPRIATE PIPE CLASS. PROPOSED PIPE CLASS SHALL BE REVIEWED BY CARDNO PRIOR TO INSTALLATION.
11. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (2003) AND AS/NZS 3500 3.2 (2003).
12. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY CARDNO.
13. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
14. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
15. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
16. GRATES AND COVERS SHALL CONFORM TO AS 3996.
17. ALL BOX CULVERTS SHALL BE STRUCTURALLY DESIGNED BY THE MANUFACTURER AND DELIVERED TO SITE AS FIT FOR PURPOSE.
18. AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
19. 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.

PROPOSED WORKS LEGEND

- 100.0 — PROPOSED CONTOUR
- SITE BOUNDARY
- 1 in 4 — BATTER SLOPE
- BATTERS
- 10 — LOT NUMBERS
- K&G — KERB & GUTTER REFER WOLLONDILLY SHIRE COUNCIL STANDARD DETAIL.
- RK&G — ROLL KERB & GUTTER REFER WOLLONDILLY SHIRE COUNCIL STANDARD DETAIL.
- PR — PRAM RAMP REFER WOLLONDILLY SHIRE COUNCIL STANDARD DETAIL.
- CONCRETE HEADWALL
- Ø375 — STORMWATER PIPELINE
- DRAINAGE END CAP
- STORMWATER DRAINAGE PITS
- SCOUR PROTECTION
- PROPOSED SWALE
- PROPOSED EASEMENT
- Ø150mm SUBSOIL
- Ø100mm SUBSOIL
- FP — FLUSHING POINT
- IR — INTERMEDIATE RISER
- RETAINING WALL

EXISTING WORKS LEGEND

- 100.0 — EXISTING CONTOURS (PRE BULK EARTHWORKS)
- T — EXISTING TELECOMMUNICATION
- OF — EXISTING OPTIC FIBRE
- E — EXISTING ELECTRICAL
- G — EXISTING GAS
- W — EXISTING POTABLE WATER
- S — EXISTING SEWER
- EXISTING SUBSTATION
- EXISTING POWER POLE

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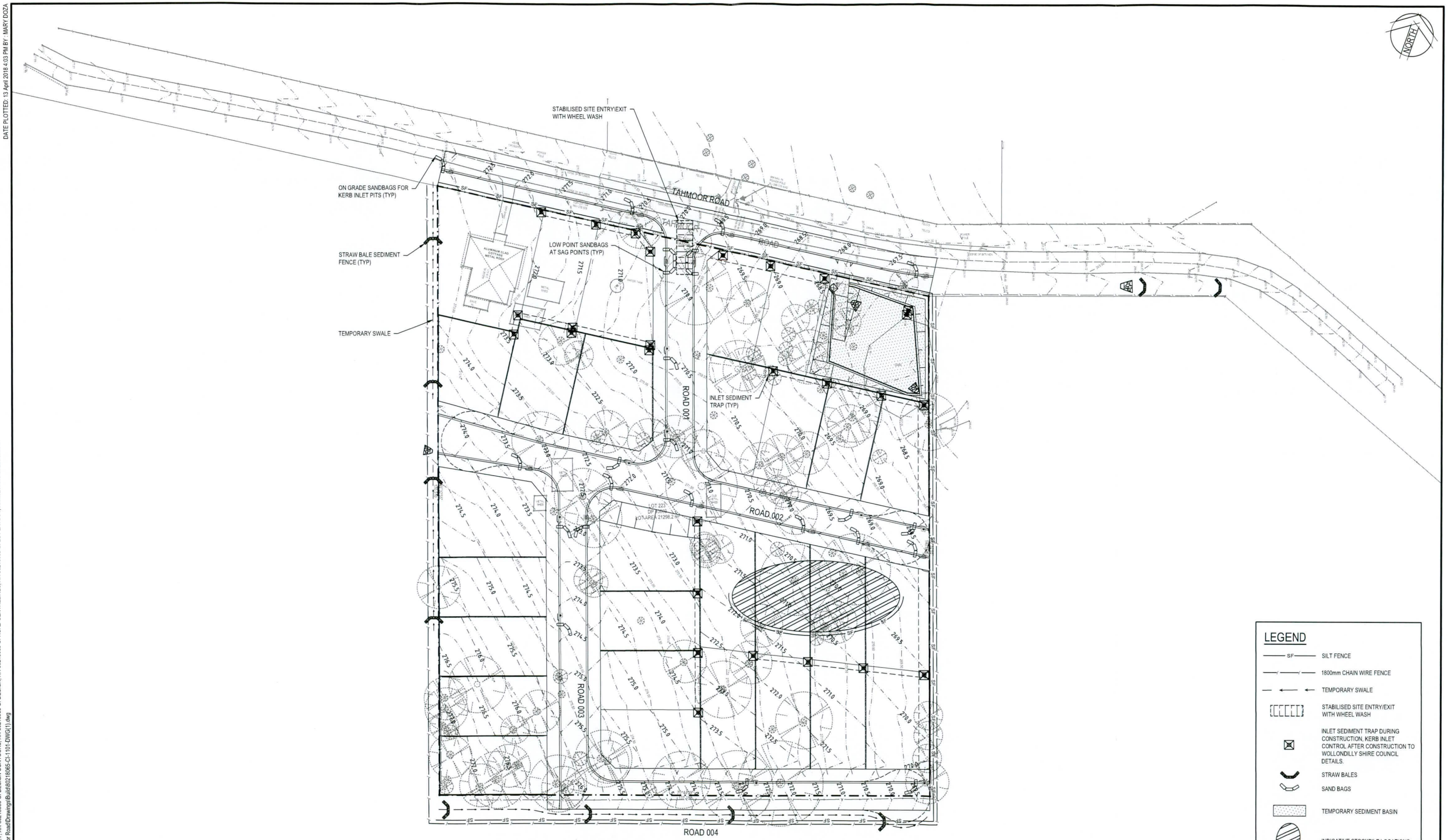

LEGEND

- SF — SILT FENCE
- 1800mm CHAIN WIRE FENCE
- TEMPORARY SWALE
- STABILISED SITE ENTRY/EXIT WITH WHEEL WASH
- INLET SEDIMENT TRAP DURING CONSTRUCTION, KERB INLET CONTROL AFTER CONSTRUCTION TO WOLLONDILLY SHIRE COUNCIL DETAILS.
- STRAW BALES
- SAND BAGS
- TEMPORARY SEDIMENT BASIN
- INDICATIVE STOCKPILE LOCATIONS

0 10 20 30 40 50m

SCALE 1:500 @A1

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Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE

Title: EROSION AND SEDIMENTATION CONTROL PLAN

Status: FOR INFORMATION ONLY
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Datum	Scale	Size
AHD	1:500	A1

Drawing Number: 80218065-CI-1101

Revision: 1

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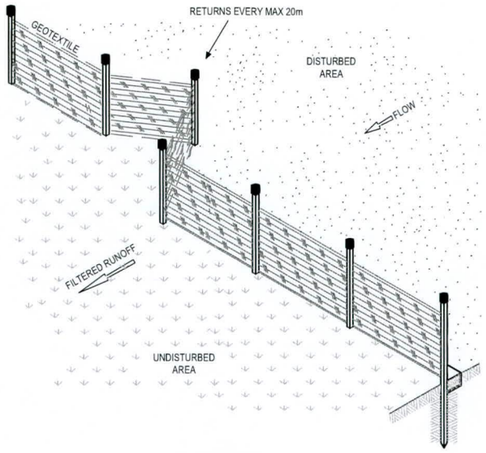
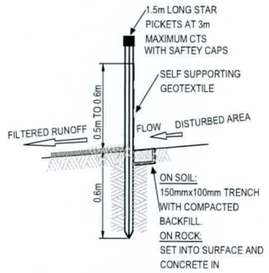


SILT FENCE
NOT TO SCALE



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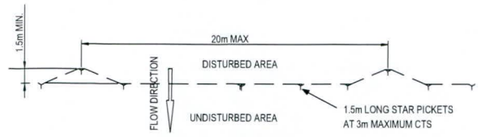
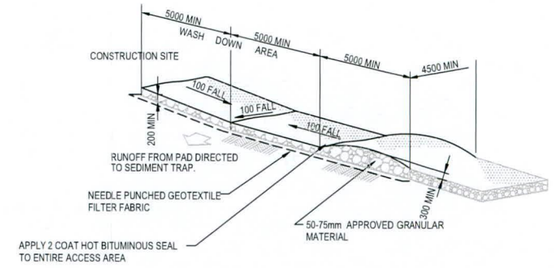
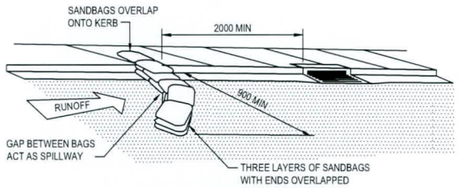


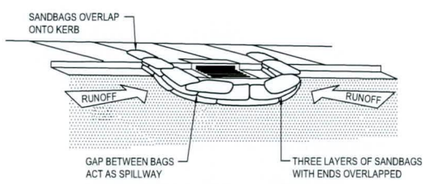
SILT FENCE PLAN
NOT TO SCALE



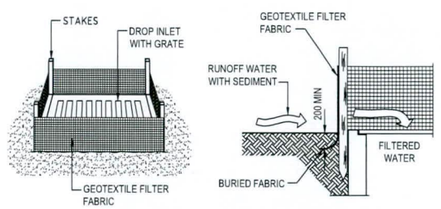
STABILISED SITE ENTRY/EXIT WITH WHEEL WASH
NOT TO SCALE



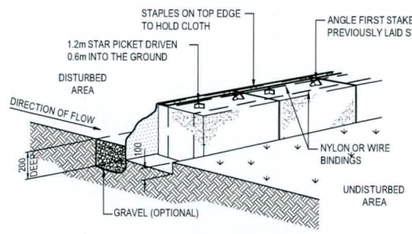
SEDIMENT TRAP FOR KERB INLET (ON GRADE - SANDBAG)
NOT TO SCALE



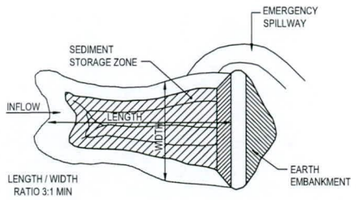
SEDIMENT TRAP FOR KERB INLET (AT LOW POINT - SANDBAG)
NOT TO SCALE



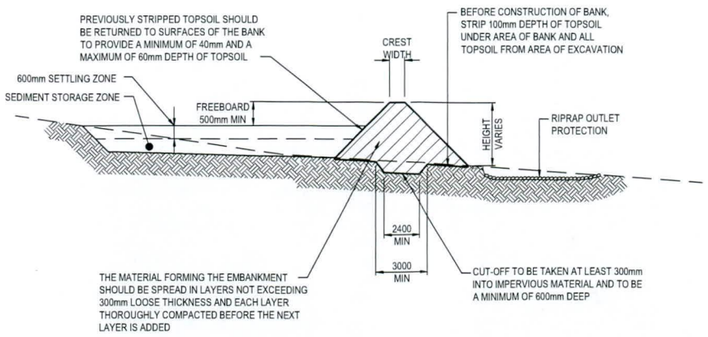
SEDIMENT TRAP FOR DROP INLET (GEOTEXTILE FILTER FABRIC)
NOT TO SCALE



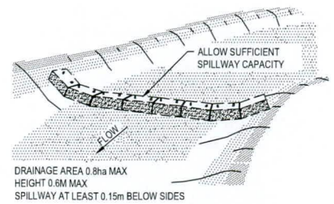
SEDIMENT FENCE (GEOTEXTILE FILTER FABRIC & STRAW BALE)
NOT TO SCALE



SEDIMENT BASIN (TYPICAL) PLAN - TYPE D AND F SOILS
NOT TO SCALE



SEDIMENT BASIN (TYPICAL) CROSS SECTION - TYPE D AND F SOILS
NOT TO SCALE



CHECK DAM - STRAW BALE
NOT TO SCALE

Rev.	Date	Description	Des.	Verif.	Appd.
1	13.04.18	ISSUED FOR CLIENT COMMENT	BJD	DAC	DAC

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Drawn	MCD	13.04.18
Checked	DAC	13.04.18
Designed	BJD	13.04.18
Verified	DAC	13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES
Project: RESIDENTIAL SUBDIVISION, 50 TAHMOOR ROAD, TAHMOOR, PRELIMINARY ISSUE
Title: EROSION AND SEDIMENTATION CONTROL DETAILS

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

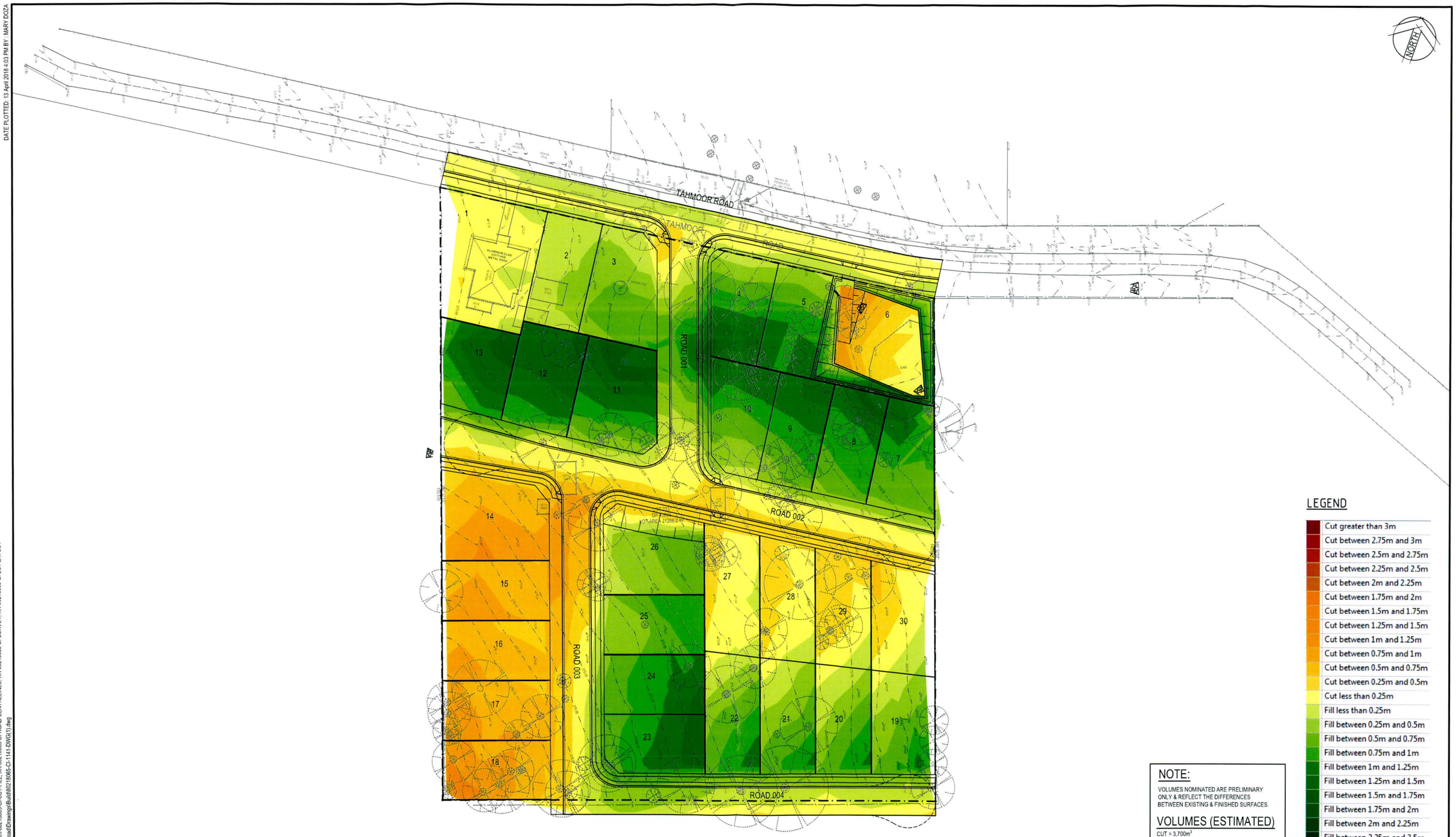
Datum	Scale	Size
AHD	AS SHOWN	A1

Drawing Number: 80218065-CI-1131
Revision: 1

XREFs: XR-80218065-CI-CLIENT LOGO
CAD File: N:\Parramatta\Projects\80\21\80218065_Firstyle 50 Tahmoor Road\Drawings\Build\80218065-CI-1131-DWG(1).dwg

DATE PLOTTED: 13 April 2018 4:03 PM BY : MARY DOZA

XREFs: XR-80218065-CI-CLIENT LOGO ; XR-80218065-CI-DESIGN; XR-80218065-CI-CUT-FILL; XR-80218065-CI-ROAD CENTRELINES; XR-80218065-CI-SURVEY; XR-80218065-CI-LOT LAYOUT
CAD File: N:\Parramatta\Projects\802\FY18\065_Firstyle 50 Tahmoor Road\Drawings\Bulk\80218065-CI-1141-DWG(1).dwg



LEGEND

- Cut greater than 3m
- Cut between 2.75m and 3m
- Cut between 2.5m and 2.75m
- Cut between 2.25m and 2.5m
- Cut between 2m and 2.25m
- Cut between 1.75m and 2m
- Cut between 1.5m and 1.75m
- Cut between 1.25m and 1.5m
- Cut between 1m and 1.25m
- Cut between 0.75m and 1m
- Cut between 0.5m and 0.75m
- Cut between 0.25m and 0.5m
- Cut less than 0.25m
- Fill less than 0.25m
- Fill between 0.25m and 0.5m
- Fill between 0.5m and 0.75m
- Fill between 0.75m and 1m
- Fill between 1m and 1.25m
- Fill between 1.25m and 1.5m
- Fill between 1.5m and 1.75m
- Fill between 1.75m and 2m
- Fill between 2m and 2.25m
- Fill between 2.25m and 2.5m
- Fill between 2.5m and 2.75m
- Fill between 2.75m and 3m
- Fill greater than 3m

NOTE:

VOLUMES NOMINATED ARE PRELIMINARY ONLY & REFLECT THE DIFFERENCES BETWEEN EXISTING & FINISHED SURFACES.

VOLUMES (ESTIMATED)

CUT = 3,700m³
FILL = 8,100m³
BALANCE = 4,400m³ IN FILL

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

Rev.	Date	Description	Des.	Verif.	Appd.
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Drawn	MCD	13.04.18
Checked	DAC	13.04.18
Designed	BJD	13.04.18
Verified	DAC	13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES
Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE
Title: CUT/FILL EARTHWORKS PLAN

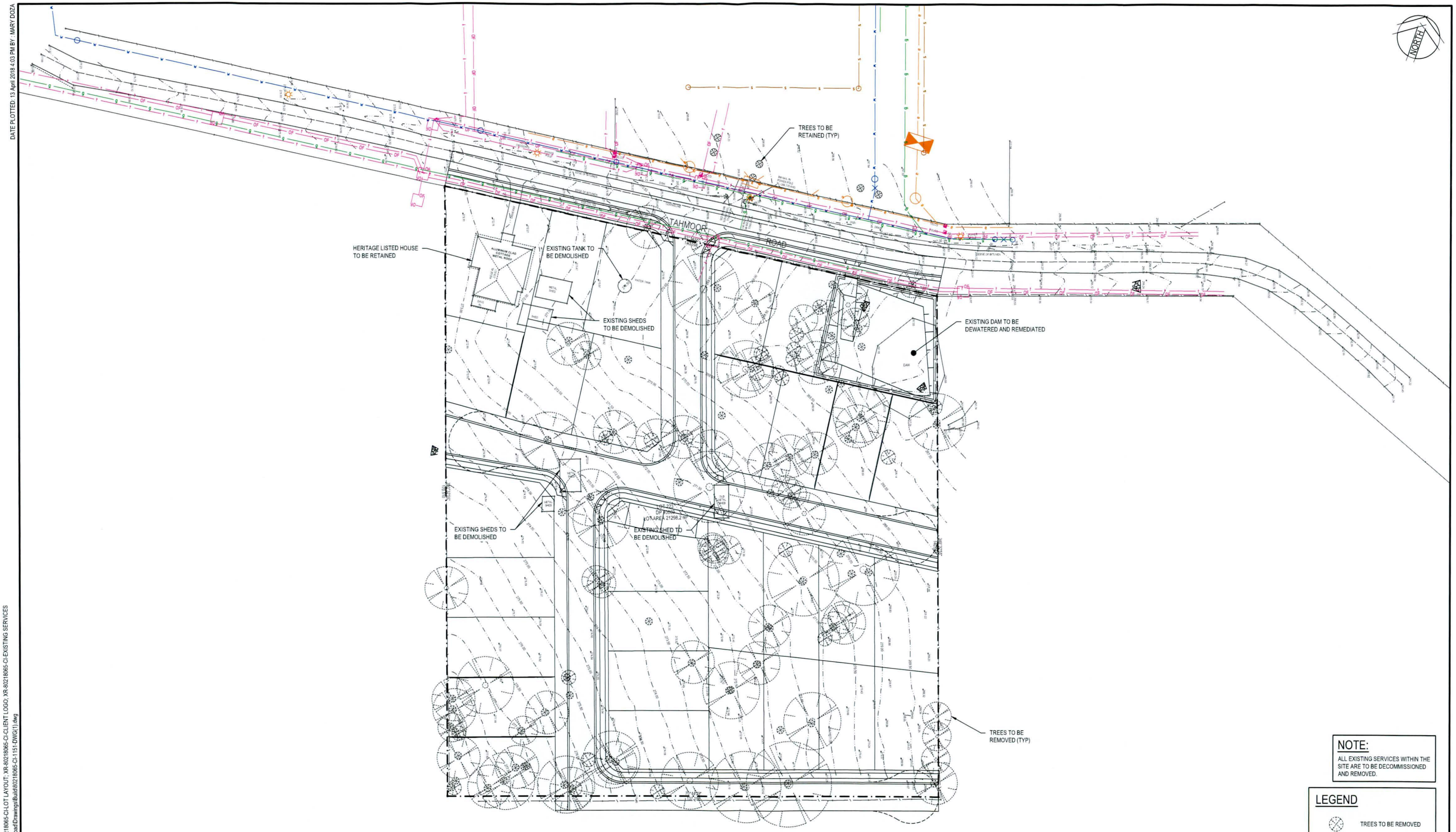
Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum	Scale	Size
AHD	1:500	A1

Drawing Number: 80218065-CI-1141
Revision: 1

DATE PLOTTED: 13 April 2018 4:03 PM BY: MARY DOZA

XREFs: XR-80218065-CI-SURVEY; XR-80218065-CI-DESIGN; XR-80218065-CI-LOT LAYOUT; XR-80218065-CI-CLIENT LOGO; XR-80218065-CI-EXISTING SERVICES
CAD File: N:\Parramatta\Projects\80\2FY18\065_Firstyle 50 Tahmoor Road\Drawings\Build\80218065-CI-1151.DWG(1).dwg



NOTE:

ALL EXISTING SERVICES WITHIN THE SITE ARE TO BE DECOMMISSIONED AND REMOVED.

LEGEND

- TREES TO BE REMOVED
- TREES TO BE RETAINED

0 10 20 30 40 50m

SCALE 1:500 @A1

Rev.	Date	Description	Des.	Verif.	Appd.
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Checked	DAC	13.04.18
Designed	BJD	13.04.18
Verified	DAC	13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES

Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE

Title: DEMOLITION PLAN

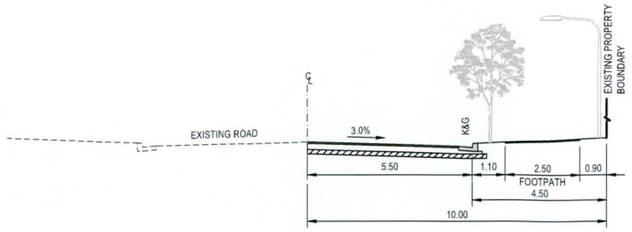
Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum		Scale	Size
AHD		1:500	A1

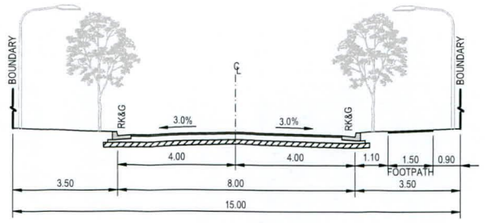
Drawing Number: 80218065-CI-1151

Revision: 1

DATE PLOTTED: 13 April 2018 4:03 PM BY: MARY DOZA

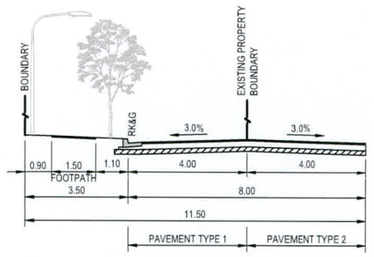


TAHMOOR ROAD
PAVEMENT TYPE 1
SCALE 1:100

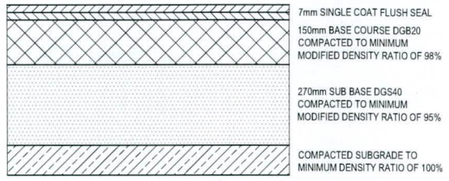


MINOR LOCAL STREET
PAVEMENT TYPE 1
SCALE 1:100

ROADS 001, 002 & 003

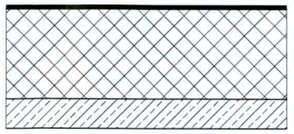


ROAD 004
SCALE 1:100



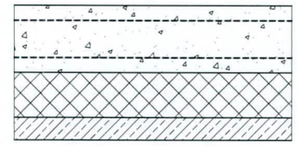
ASSUMED CBR: 3%
ASSUMED ESA: $2x10^5$

PAVEMENT TYPE 1
SCALE 1:10



ASSUMED CBR: 3%
ASSUMED ESA: NOT APPLICABLE

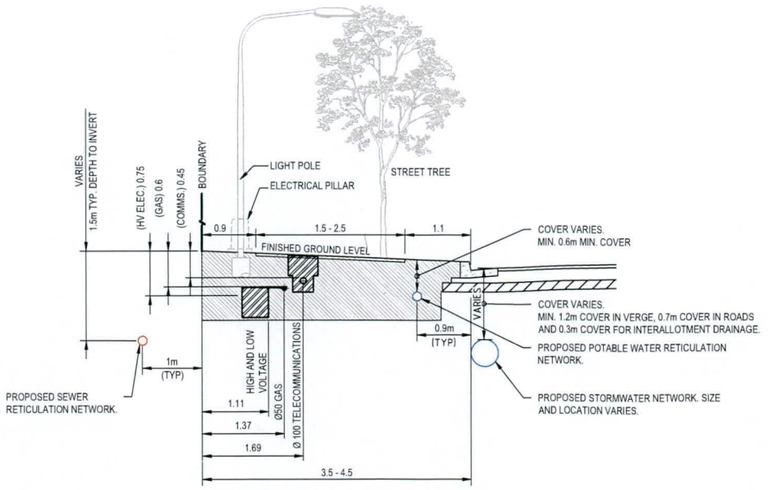
PAVEMENT TYPE 2
(TEMPORARY ROAD & TURN HEAD)
SCALE 1:10



ASSUMED CBR: 3%

PAVEMENT TYPE 3
(CONCRETE MAINTENANCE AND HARDSTAND)
SCALE 1:10

NOTE
1. PROVIDE TCJ AT 4m SPACING.
2. EVERY THIRD JOINT TO BE DEJ.
3. REFER DRAWING 1601 FOR JOINT DETAILS



TYPICAL LOCAL ROAD SERVICES TRENCH EXCAVATION
SCALE 1:50

NOTES:
1. CONFIRMATION OF PAVEMENT DESIGN WOULD BE SUBJECT TO DETAILED DESIGN.
2. REFER WOLLONDILLY SHIRE COUNCIL STANDARD DRAWING FOR FOOTPATH DETAILS.

0 0.2 0.4 0.6 0.8 1m
SCALE 1:10 @A1

0 1 2 3 4 5m
SCALE 1:50 @A1

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

Rev.	Date	Description	Des.	Verif.	Appd.
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Drawn	MCD	13.04.18
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Client: FIRSTYLE HOMES
Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE
Title: TYPICAL ROAD CROSS SECTIONS AND PAVEMENT DETAILS

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

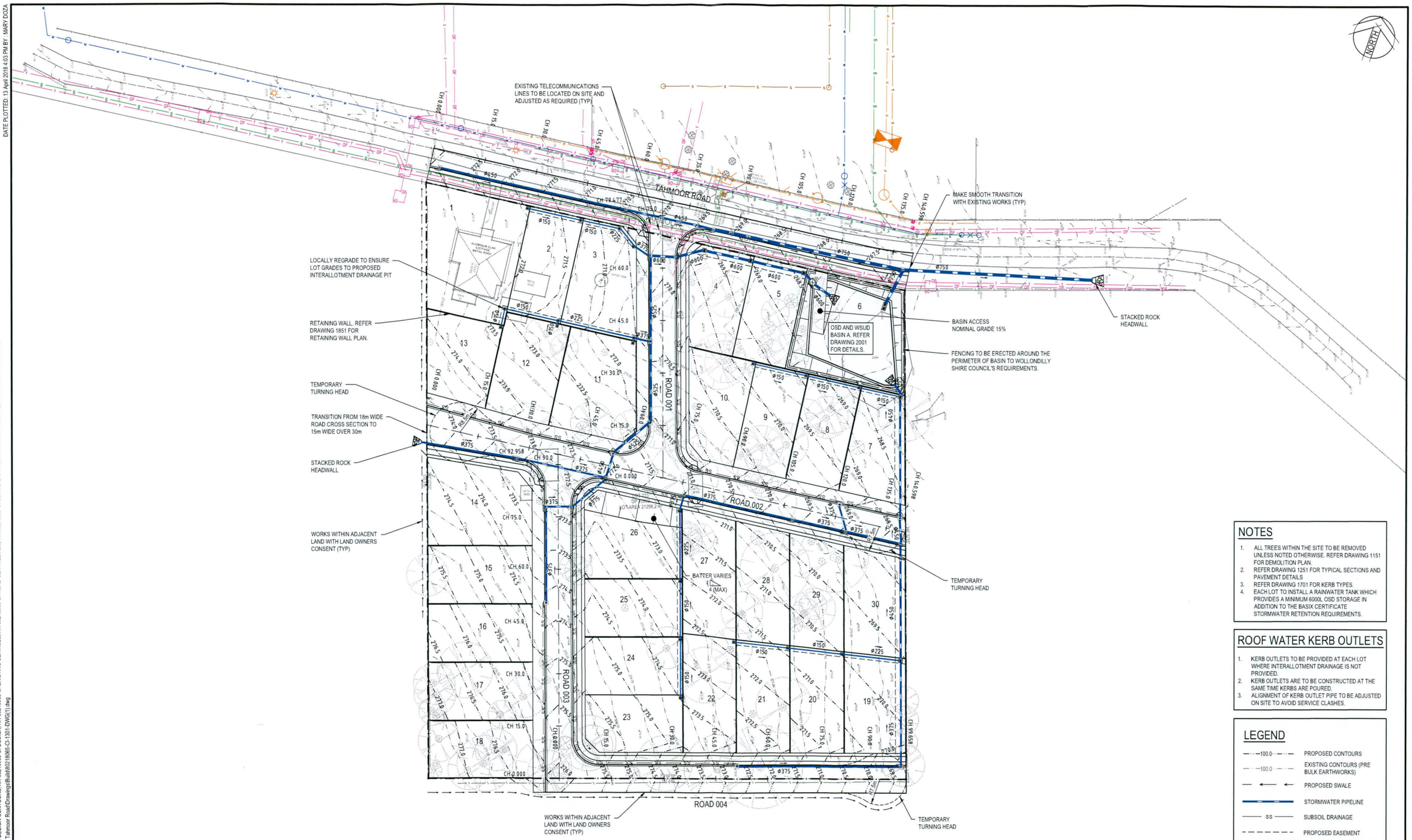
Datum	Scale	Size
AHD	AS SHOWN	A1

Drawing Number: 80218065-CI-1251
Revision: 1

XREFs: XR-80218065-CI-CLIENT LOGO
CAD File: N:\Parramatta\Projects\802\PY18065_Firstyle 50 Tahmoor Road\Drawings\Build\80218065-CI-1251-DWG(1).dwg

DATE PLOTTED: 13 April 2018 4:03 PM BY: MARY DOZA

XREFs: XR-80218065-CI-CLIENT LOGO; XR-80218065-CI-DESIGN CONTOURS; XR-80218065-CI-DESIGN; XR-80218065-CI-EXISTING SERVICES; XR-80218065-CI-ROAD CENTRELINES; XR-80218065-CI-SURVEY; XR-80218065-CI-LOT LAYOUT
CAD File: N:\Parramatta\Projects\802\PY19065_Firstyle 50 Tahmoor Road\Drawings\Build\80218065-CI-1301-DWG(1).dwg



NOTES

1. ALL TREES WITHIN THE SITE TO BE REMOVED UNLESS NOTED OTHERWISE. REFER DRAWING 1151 FOR DEMOLITION PLAN.
2. REFER DRAWING 1251 FOR TYPICAL SECTIONS AND PAVEMENT DETAILS
3. REFER DRAWING 1701 FOR KERB TYPES.
4. EACH LOT TO INSTALL A RAINWATER TANK WHICH PROVIDES A MINIMUM 6000L OSD STORAGE IN ADDITION TO THE BASIX CERTIFICATE STORMWATER RETENTION REQUIREMENTS.

ROOF WATER KERB OUTLETS

1. KERB OUTLETS TO BE PROVIDED AT EACH LOT WHERE INTERALLOTMENT DRAINAGE IS NOT PROVIDED.
2. KERB OUTLETS ARE TO BE CONSTRUCTED AT THE SAME TIME KERBS ARE POURED.
3. ALIGNMENT OF KERB OUTLET PIPE TO BE ADJUSTED ON SITE TO AVOID SERVICE CLASHES.

LEGEND

- PROPOSED CONTOURS
- EXISTING CONTOURS (PRE BULK EARTHWORKS)
- PROPOSED SWALE
- STORMWATER PIPELINE
- SUBSOIL DRAINAGE
- PROPOSED EASEMENT

0 10 20 30 40 50m

SCALE 1:500 @A1

Rev.	Date	Description	Des.	Verif.	Appd.
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Approved	DAC	13.04.18

Client: FIRSTYLE HOMES

Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE

Title: CIVIL WORKS AND STORMWATER DRAINAGE PLAN

Status: FOR INFORMATION ONLY
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Datum		Scale	Size
AHD		1:500	A1

Drawing Number: 80218065-CI-1301

Revision: 1

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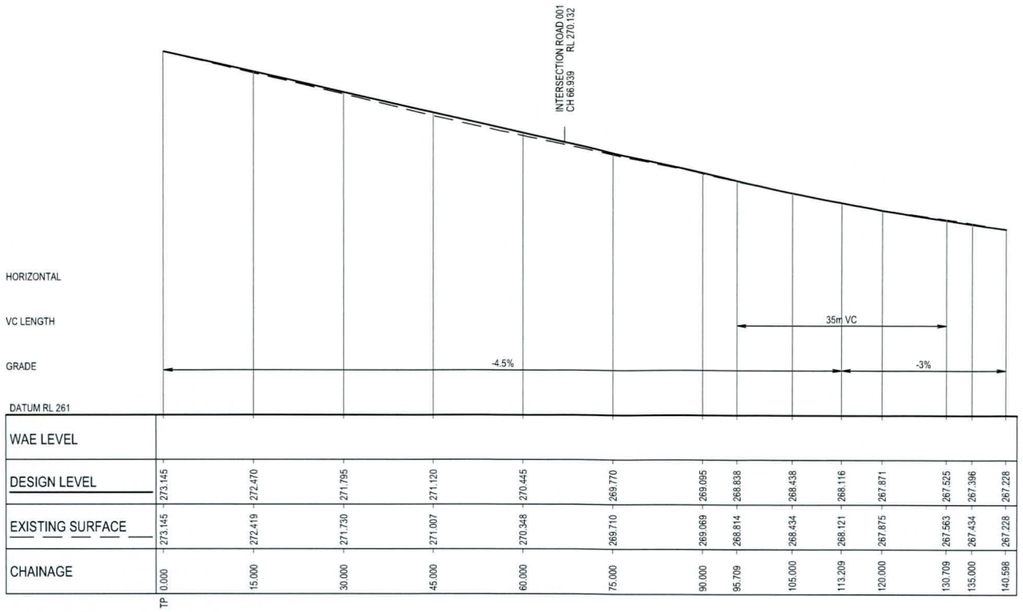

| | | |

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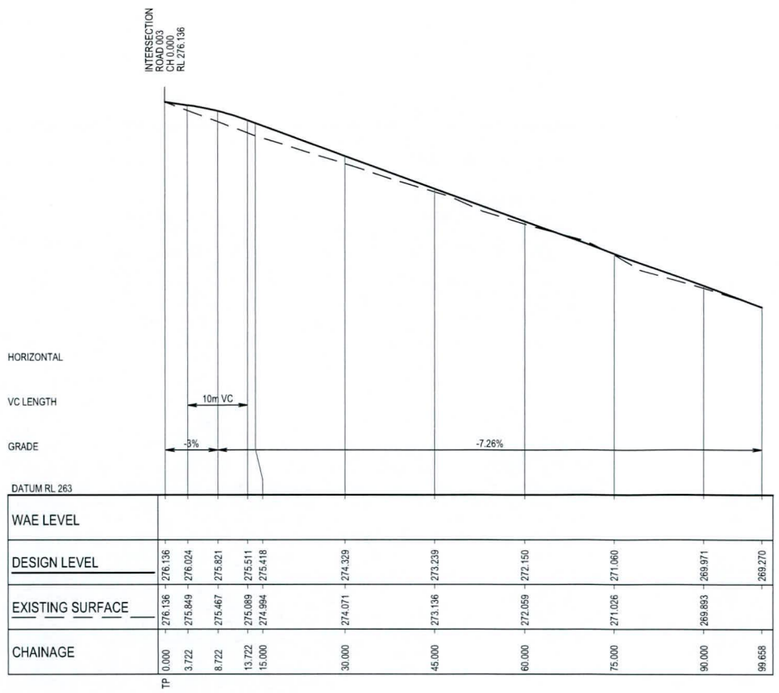

ROAD 004 LONGITUDINAL SECTION

1:500 HORI.
1:100 VERT.

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

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

Rev.	Date	Description	Des.	Verif.	Appd.
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Checked	DAC	13.04.18
Designed	BJD	13.04.18
Verified	DAC	13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES
Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE
Title: ROAD LONGITUDINAL SECTIONS
SHEET 2 ROAD 004

Status: FOR INFORMATION ONLY
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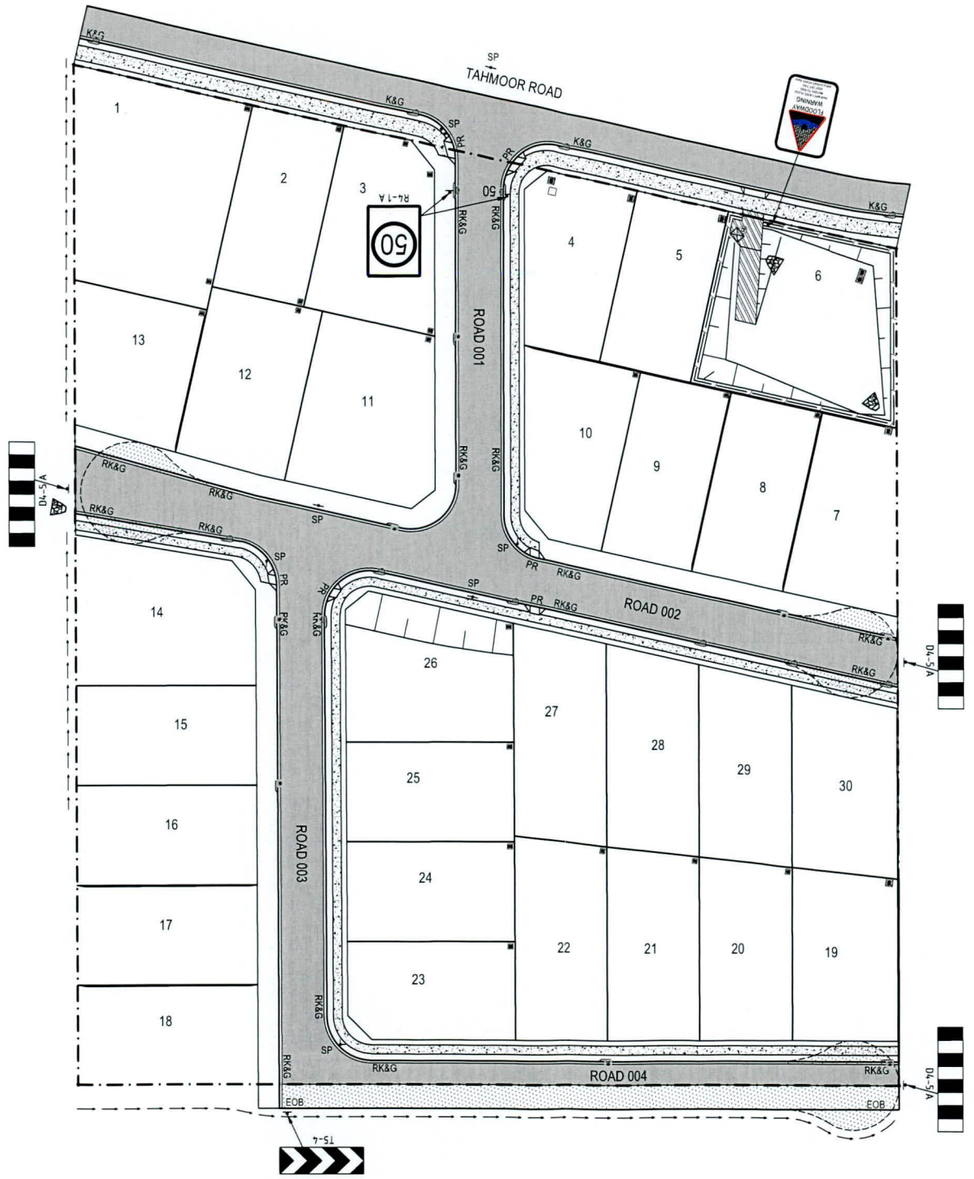
Datum		Scale	Size
AHD		AS SHOWN	A1

Drawing Number: 80218065-CI-1352
Revision: 1

XREFs: XR-80218065-CI-CLIENT LOGO; XLS-ROAD-005_1; XLS-ROAD-001_1; XLS-ROAD-002_1; XLS-ROAD-003_1; XLS-ROAD-004_1
CAD File: N:\Parramatta\Projects\80\21\80218065_Firstyle 50 Tahmoor Road\Drawings\Build\80218065-CI-1351-1352-DWG(1).dwg



LEGEND

SP ↓ SP ←	STREET SIGNS TO BE INSTALLED IN ACCORDANCE WITH WOLLONDILLY SHIRE COUNCIL STANDARDS.
RK&G	ROLL KERB & GUTTER
K&G	KERB & GUTTER
EOB	EDGE OF BITUMEN
PR	PRAM RAMP
PAVEMENT TYPE 1 LOCAL ROAD	
PAVEMENT TYPE 2 TEMPORARY ROAD	
PAVEMENT TYPE 3 CONCRETE MAINTENANCE ACCESS BAY	
SHARED PATH/FOOTPATH	

REFER DRAWING 1251 FOR PAVEMENT DETAILS

NOTES:

1. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE CURRENT VERSION OF WOLLONDILLY SHIRE COUNCIL REQUIREMENTS AND AUSTRALIAN STANDARDS 1742.
2. ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS 1742.
3. ALL PAVEMENT MARKINGS SHALL BE SPOTTED OUT AND APPROVED BY THE SUPERINTENDENT PRIOR TO APPLICATION.
4. TRANSITION LINE MARKING TO SUIT EXISTING WHERE REQUIRED.
5. PROVIDE ADEQUATE APPROACH WARNING SIGNS DURING & AFTER CONSTRUCTION.
6. PROVIDE RETRO-REFLECTORISED PAVEMENT MARKERS TO AUSTRALIAN STANDARDS 1742.
7. THERMO PLASTICS MUST BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND BE ONLY THOSE APPROVED FOR USE BY THE RMS.
8. ALL LINEMARKING TO BE WHITE IN COLOUR, U.N.O.

0 10 20 30 40 50m

SCALE 1:500 @A1

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Verified	DAC	Date 13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES

Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE

Title: PAVEMENT, SIGNAGE AND LINEMARKING PLAN

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum		Scale	Size
AHD		1:500	A1

Drawing Number: 80218065-CI-1701

Revision: 1

DATE PLOTTED: 13 April 2018 4:33 PM BY - MARY DOZA

XREFs: XR-80218065-CI-CLIENT LOGO; XR-80218065-CI-SURVEY; XR-80218065-CI-DESIGN; XR-80218065-CI-ROAD CENTRELINES; XR-80218065-CI-PAVEMENT HATCHES; XR-80218065-CI-LOT LAYOUT; XR-80218065-CI-LINEMARKING & SIGNAGE; XR-80218065-CI-DRAINAGE
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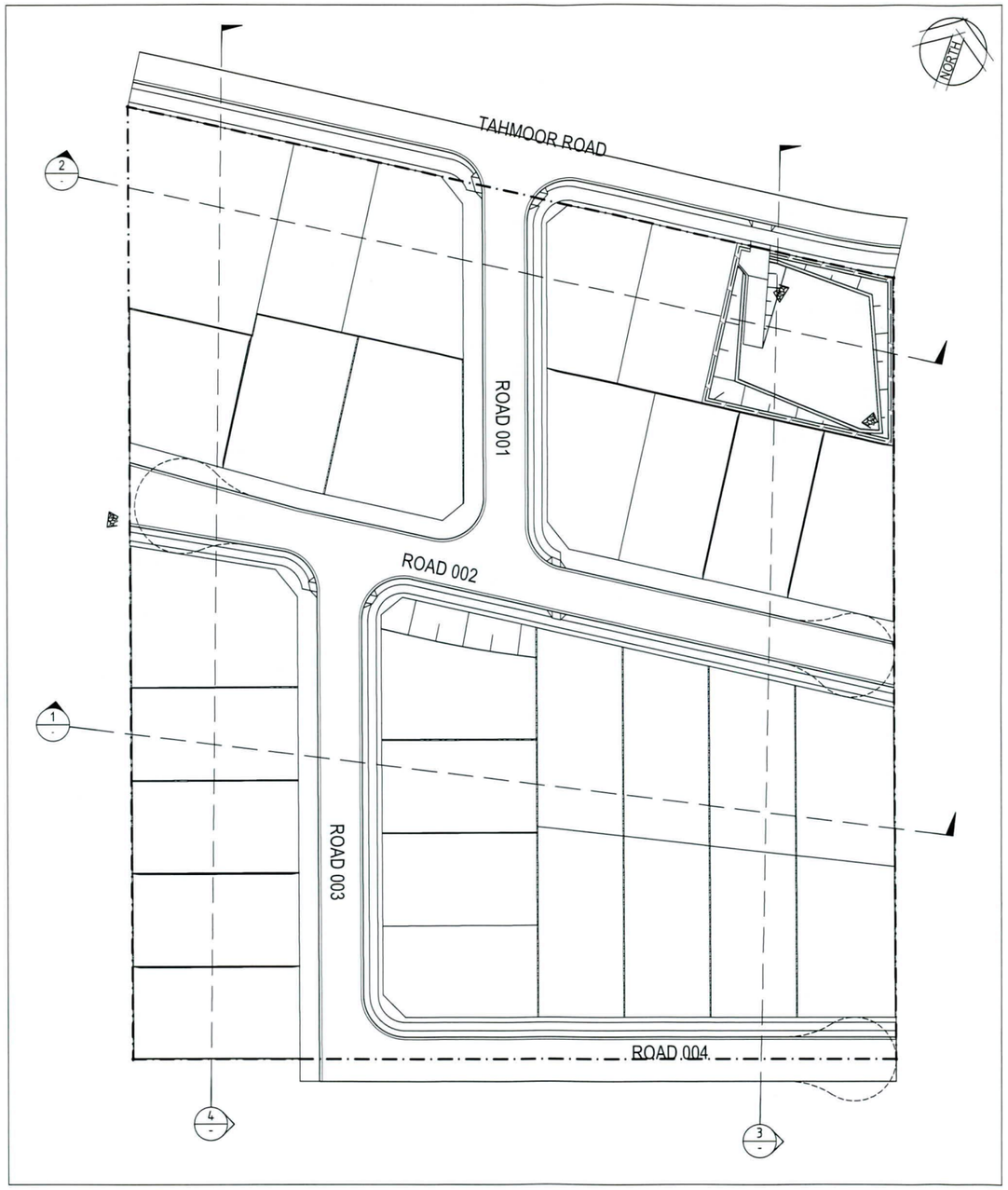

KEYPLAN
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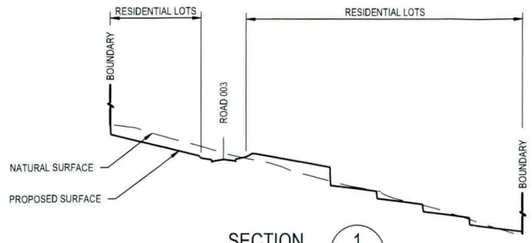

SECTION 1
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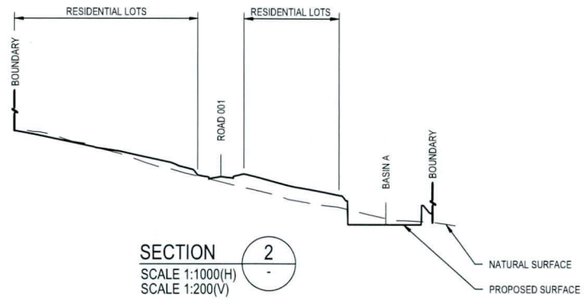
SCALE 1:200(V)



SECTION 2
SCALE 1:1000(H)
SCALE 1:200(V)

SECTION 3
SCALE 1:1000(H)
SCALE 1:200(V)

SECTION 4
SCALE 1:1000(H)
SCALE 1:200(V)

Rev.	Date	Description	Des.	Verif.	Appd.
1	13.04.18	ISSUED FOR CLIENT COMMENT	BJD	DAC	DAC

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Drawn	MCD	Date 13.04.18
Checked	DAC	Date 13.04.18
Designed	BJD	Date 13.04.18
Verified	DAC	Date 13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES
Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE
Title: SITE SECTIONS

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES
Datum: AHD | Scale: AS SHOWN | Size: A1
Drawing Number: 80218065-CI-1801 | Revision: 1

DATE PLOTTED: 13 April 2018 4:17 PM BY : MARY DOZA

XREFs: XR-80218065-CI-ROAD CENTRELINES, XR-80218065-CI-DESIGN, XR-80218065-CI-CLIENT LOGO, XR-80218065-CI-LOT LAYOUT, XR-80218065-CI-SURVEY, XR-80218065-CI-DESIGN CONTOURS
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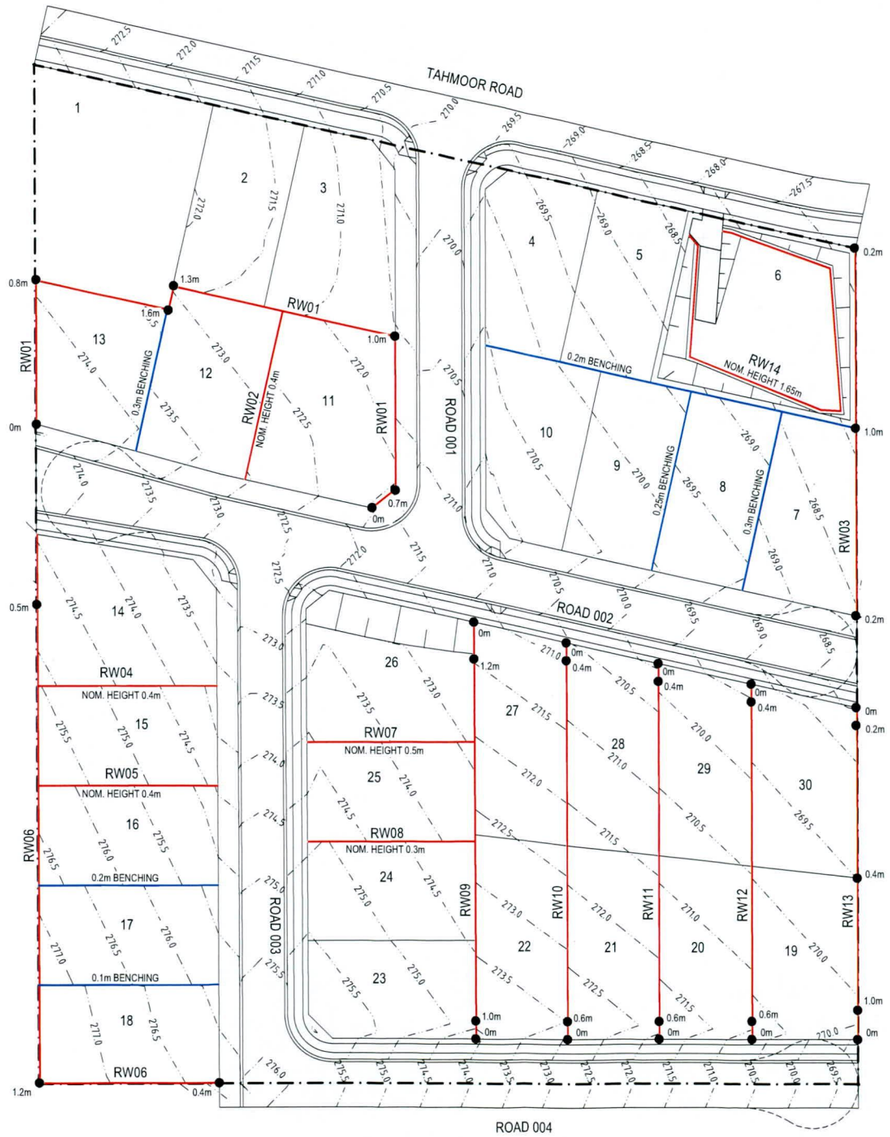
DATE PLOTTED: 13 April 2018 4:36 PM BY: MARY DOZA



LEGEND

- RETAINING WALL
- LOT BENCHING
- 0.0m RETAINING WALL APPROXIMATE HEIGHT

0 10 20 30 40 50m

SCALE 1:500 @A1

Rev.	Date	Description	Des.	Verif.	Appd.
1	13.04.18	ISSUED FOR CLIENT COMMENT	BJD	DAC	DAC

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Drawn	MCD	13.04.18
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Client: FIRSTSTYLE HOMES

Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE

Title: REATAINING WALL LOCALITY PLAN

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum		Scale	Size
AHD		1:500	A1

Drawing Number: 80218065-CI-1851

Revision: 1

XREFs: XR-80218065-CI-CLIENT LOGO; XR-80218065-CI-DESIGN; XR-80218065-CI-LOT LAYOUT; XR-80218065-CI-ROAD CENTRELINES; XR-80218065-CI-SURVEY; XR-80218065-CI-DESIGN CONTOURS
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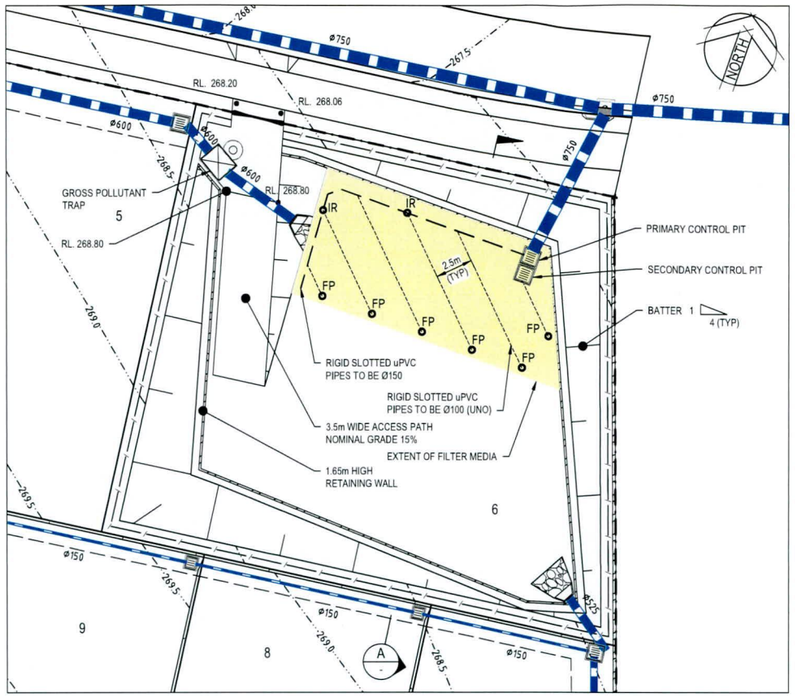
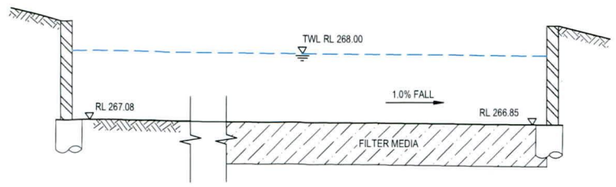


BIO-FILTRATION BASIN A

OSD VOLUME REQUIRED: 650m³
BIO RETENTION AREA: 150m²
SCALE 1:200



SECTION A
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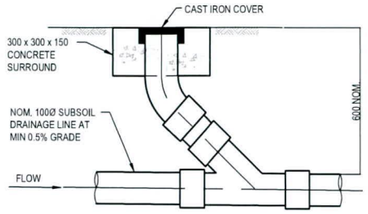
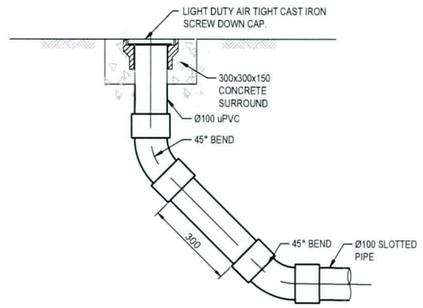


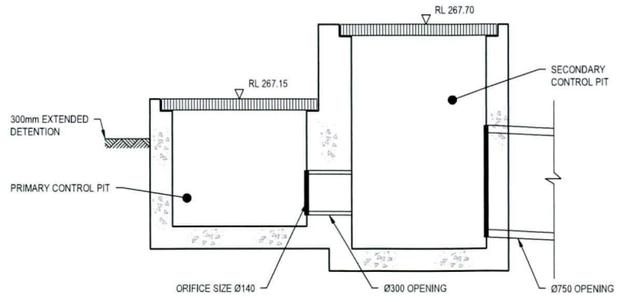
INTERMEDIATE RISER

SCALE 1:10



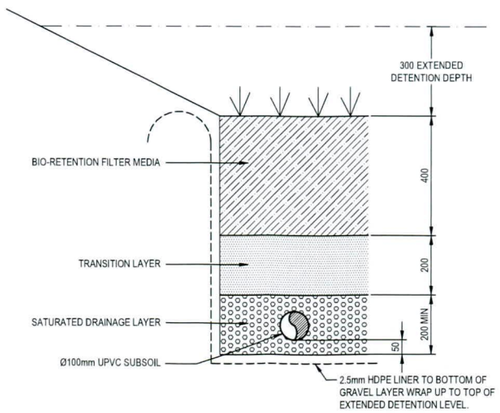
FLUSHING POINT (BIO-FILTRATION) (FP)

SCALE 1:10



FLOW CONTROL PIT

SCALE 1:20



TYPICAL BIO RETENTION FILTER LAYER

SCALE 1:10

BIO-RETENTION FILTER MEDIA SPECIFICATION

MATERIALS:

BIO-RETENTION FILTER MEDIA, TRANSITION LAYER AND DRAINAGE LAYERS TO BE IN ACCORDANCE WITH CURRENT VERSION OF FAWB DOCUMENT "STORMWATER BIO-FILTRATION SYSTEMS ADOPTION GUIDELINES" AND THE FOLLOWING:

A) BIO-RETENTION FILTER MEDIA

1. BIO-RETENTION MEDIA IS TO BE FREE OF RUBBISH AND DELETERIOUS MATERIAL.
2. BIO-RETENTION FILTER MEDIA SATURATED HYDRAULIC CONDUCTIVITY TO BE 200mm/hr USING TEST METHOD ASTM F1815-06.
3. BIO-RETENTION FILTER MEDIA PARTICLE SIZE DISTRIBUTION IS TO BE AS FOLLOWS:

CLAY & SILT	<3%	(<0.05mm)
VERY FINE SAND	5-30%	(0.05-0.15mm)
FINE SAND	10-30%	(0.15-0.25mm)
MEDIUM TO COARSE SAND	40-60%	(0.25-1.0mm)
COARSE SAND	7-10%	(1.0-2.0mm)
FINE GRAVEL	<3%	(2.0-3.4mm)

THE COMBINED PERCENTAGE OF CLAY AND SILT MUST NOT EXCEED 3%(W/W) UNDER ANY CIRCUMSTANCES.

4. BIO-RETENTION FILTER MEDIA IS TO BE TESTED AND COMPLY WITH THE FOLLOWING REQUIREMENTS:
   a. ORGANIC MATTER CONTENT IN ACCORDANCE WITH AS 4419 AT LEAST 3% (W/W)
   b. TOTAL NITROGEN (TN) CONTENT <800mg/kg
   c. ORTHOPHOSPHATE (PO) CONTENT – <40mg/kg WHERE PLANTS ³ ⁴ WITH MODERATE PHOSPHOROUS SENSITIVITY ARE TO BE USED, TOTAL PHOSPHOROUS CONCENTRATION SHOULD BE <20mg/kg.
   d. AS SPECIFIED FOR "NATURAL SOILS AND SOIL BLENDS" AS4419 – pH 5.5-7.5 (pH 1.5 IN WATER).
   e. ELECTRICAL CONDUCTIVITY (EC) AS SPECIFIED FOR "NATURAL SOILS AND SOILS BLENDS" AS4419 <1.2ds/m
   f. DISPENSABILITY – AS SPECIFIED FOR 'NATURAL SOILS AND SOIL BLENDS' AS4419 CATEGORY 1 OR 2.
   g. TEXTURE – LOAMY SAND AS PER AS4419
5. PRIOR TO PLACEMENT OF THE FILTER MEDIA A STATEMENT IS TO BE SUBMITTED FROM A QUALIFIED HORTICULTURIST CONFIRMING THAT THE SOIL IS CAPABLE OF SUPPORTING A HEALTHY VEGETABLE COMMUNITY.
6. TESTS CONFIRMING THE REQUIREMENTS OF ITEMS 1 TO 4 ARE TO BE SUBMITTED FOR APPROVAL PRIOR TO PLACEMENT OF FILTER MEDIA.

B) TRANSITION LAYER

1. TRANSITION LAYER MATERIAL SHALL BE A CLEAN, WELL GRADED SAND MATERIAL CONTAINING <2% FINES.
2. THE PARTICLE SIZE DISTRIBUTION OF THE SAND TO BE ASSESSED TO ENSURE.

D_{15} (TRANSITION LAYER) < 5 x D_{85} (FILTER MEDIA)

WHERE: D_{15} (TRANSITION LAYER) IS THE 15TH PERCENTILE PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e. 15% OF THE SAND IS SMALLER THAN D_{15mm}), AND D_{85} (FILTER MEDIA) IS THE 85th PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

C) DRAINAGE LAYER

DRAINAGE LAYER MATERIAL IS TO BE CLEAN, FINE GRAVEL, SUCH AS A 2 – 5mm WASHED SCREENING. THE PARTICLE SIZE DISTRIBUTION TO BE: D_{15} (DRAINAGE LAYER) < 5 x D_{85} TRANSITION LAYER)

WHERE: D_{15} (DRAINAGE LAYER) IS THE 15th TRANSITION LAYER PARTICLE SIZE IN THE TRANSITION LAYER MATERIAL (i.e. 15% OF THE SAND IS SMALLER THAN D_{15mm}), AND D_{85} (TRANSITION LAYER) IS THE 85th PERCENTILE PARTICLE SIZE IN THE FILTER MEDIA.

10-20mm CLEAN GRAVEL WITH 2% VOLUME FINE STRAW AND 4-6%VOLUME HARDWOOD CHIPS.

INSTALLATION:

FILTER MATERIAL IS TO BE LIGHTLY COMPACTED EG. A SINGLE PASS WITH A DRUM LAWN ROLLER. UNDER NO CIRCUMSTANCES SHOULD HEAVY EQUIPMENT OR MULTIPLE PASSES BE MADE. FILTER MEDIA SHOULD BE INSTALLED IN TWO LIFTS UNLESS THE DEPTH IS LESS THAN 500mm.

0 0.2 0.4 0.6 0.8 1m
SCALE 1:10 @A1

0 0.5 1 1.5 2m
SCALE 1:20 @A1

0 1 2 3 4 5m
SCALE 1:50 @A1

0 5 10 15 20m
SCALE 1:200 @A1

Rev.	Date	Description	Des.	Verif.	Appd.
1	13.04.18	ISSUED FOR CLIENT COMMENT	BJD	DAC	DAC

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Designed	BJD	Date 13.04.18
Verified	DAC	Date 13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES
Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE
Title: WSUD & OSD DETAILS

Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES
Datum: AHD | Scale: AS SHOWON | Size: A1
Drawing Number: 80218065-CI-2001 | Revision: 1

DATE PLOTTED: 13 April 2018 4:04 PM BY: MARY DOZA
XREFs: XR-80218065-CI-CLIENT LOGO; XR-80218065-CI-DESIGN; XR-80218065-CI-LOT LAYOUT; XR-80218065-CI-SURVEY; XR-80218065-CI-DESIGN CONTOURS; XR-80218065-CI-DRAINAGE
CAD File: N:\Parramatta\Projects\802\PY18065_Firstyle 50 Tahmoor Road\Drawings\Build\80218065-CI-2001-DWG(1).dwg

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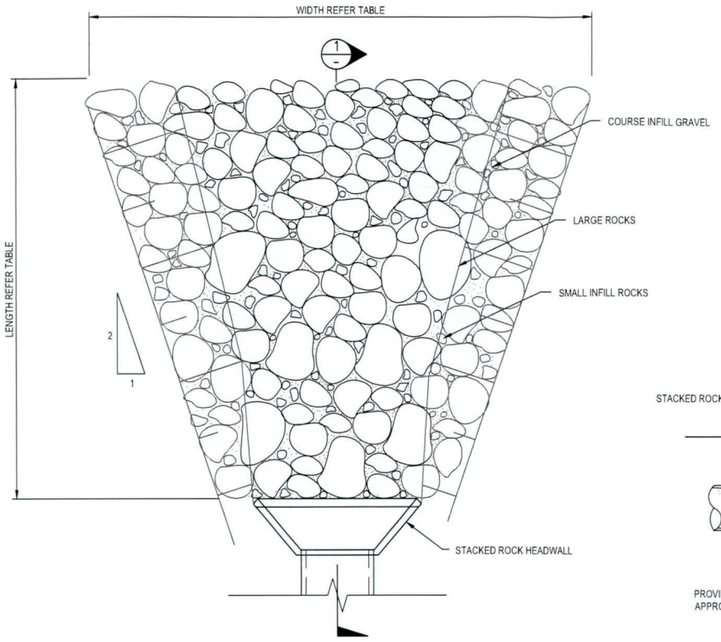


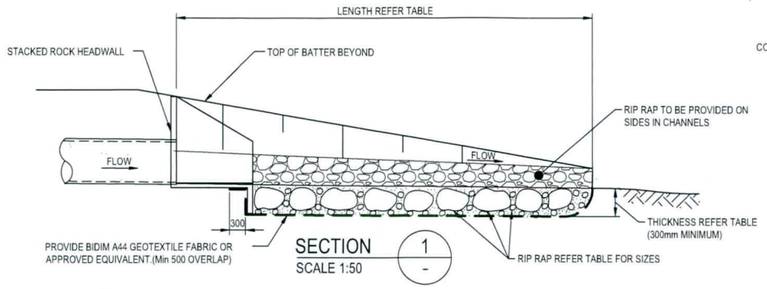
TYPICAL OUTLET HEADWALL SCOUR PROTECTION PLAN

SCALE 1:50

HEADWALL RIP-RAP SCOUR PROTECTION (MINIMUM DIMENSIONS)				
OUTLET NUMBER	LENGTH (mm)	WIDTH (mm)	THICKNESS (mm)	D50 (mm)
x	x	x	x	x

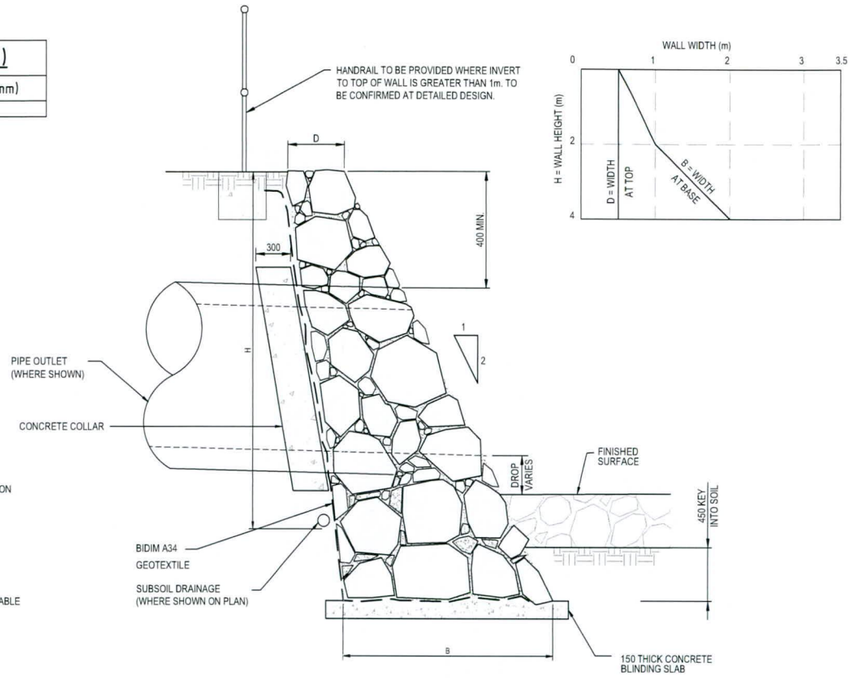
NOTE:

1. TABLE VALUES TO BE DETERMINED AT DETAILED DESIGN.



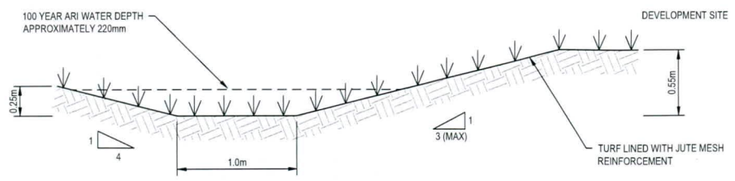
TYPICAL OUTLET HEADWALL SCOUR PROTECTION DETAIL

SCALE 1:50



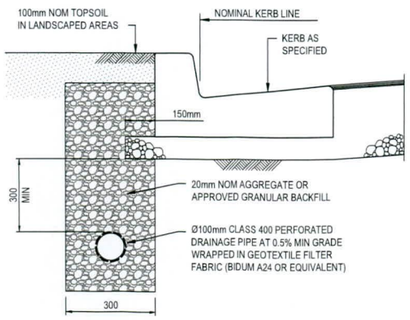
STACKED ROCK HEADWALL

SCALE 1:25



PROPOSED SWALE TYPICAL CROSS SECTION

SCALE 1:25



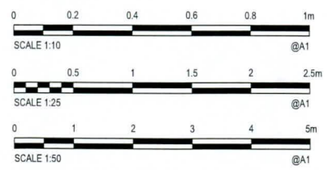
SUBSOIL DRAINAGE BEHIND KERBS

SCALE 1:10

NOTES:

ROCK RIPRAP

1. ALL RIPRAP MUST CONSIST OF ANGULAR RUN-OF-QUARRY DURABLE ROCK PLACED OVER A 200MM LAYER OF ANGULAR COBBLES D50=100MM MIXED WITH GRAVEL D50=10MM.
2. ALL ROCK IS TO BE A HARD, DURABLE ROCK WITH A POINT INDEX LOAD IS50 GREATER THAN 1.0MPA AS DETERMINED IN ACCORDANCE WITH AS4133.4.1-2007.
3. RIPRAP IS TO BE PLACED BY HAND AND CROW-BARERED INTO PLACE TO ENSURE FIT WITH MINIMUM VOIDS.
4. ALL ROCK AND COBBLES TO BE PLACED WITH TOPSOIL. GAPS IN RIPRAP TO BE PLANTED AS SPECIFIED IN LANDSCAPING PLANS
   - 4.1. M50 - 60KG (NOW 300MD)
   - 4.2. M15 - 25KG
   - 4.3. 100 - 120KG



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Verified	DAC	13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES

Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE

Title: STORMWATER DRAINAGE DETAILS
SHEET 1

Status: FOR INFORMATION ONLY
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Datum: AHD | Scale: AS SHOWON | Size: A1

Drawing Number: 80218065-CI-2201 | Revision: 1

XREFs: XR-80218065-CI-CLIENT LOGO
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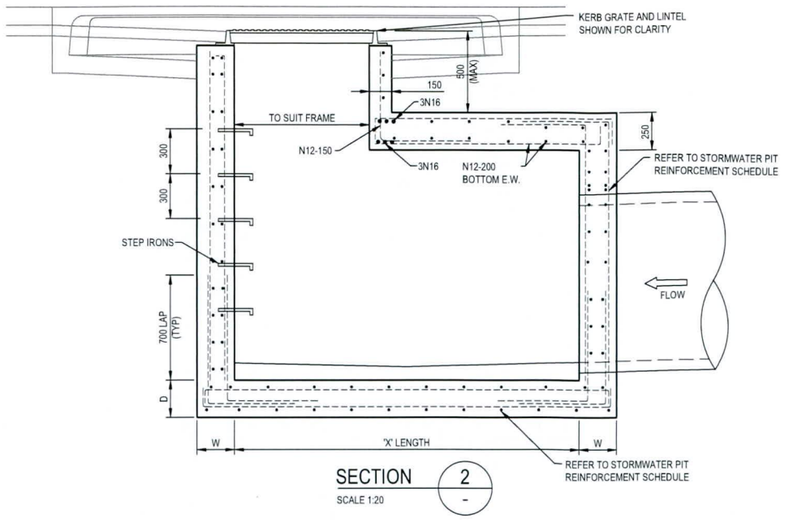
DATE PLOTTED: 13 April 2018 4:04 PM BY: MARY DOZA



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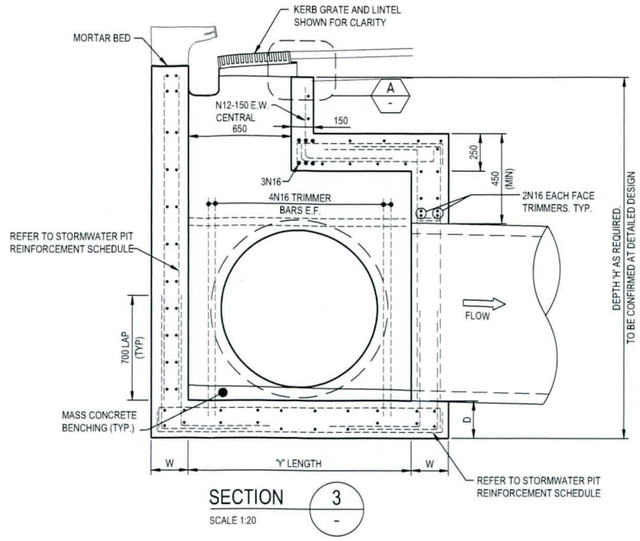

SECTION 3
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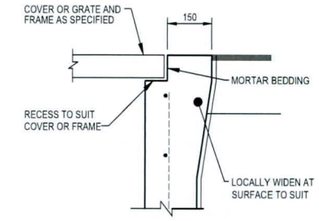

DETAIL A
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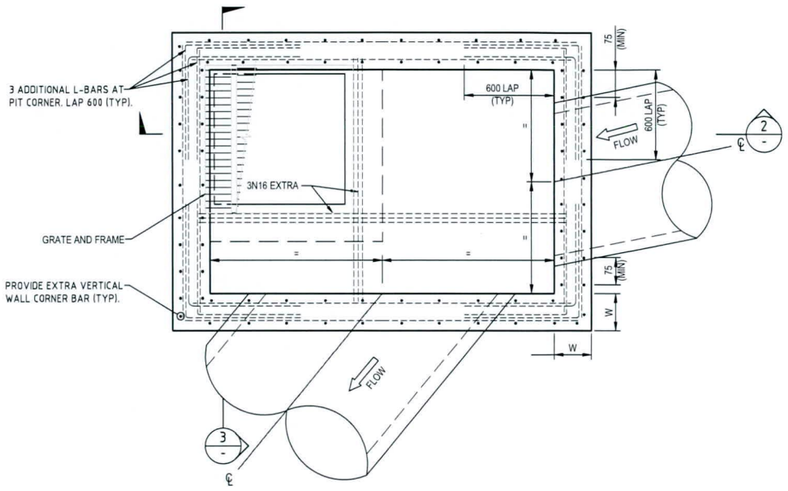
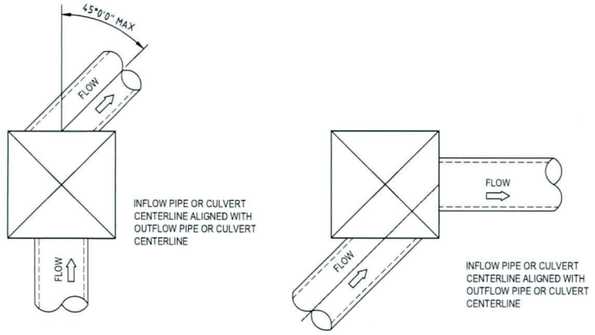


NON COUNCIL STANDARD STORMWATER PIT
SCALE 1:20



DEFLECTION ANGLE GREATER THAN 45° (SIDE OF PIT)

PIT ALIGNMENT REQUIREMENTS

TYPICAL DETAILS OF STORMWATER PIPE OR CULVERT ALIGNMENTS THROUGH STORMWATER PITS. STORMWATER PIPE OR CULVERT ALIGNMENTS NOT SHOWN SHOULD BE CONSTRUCTED SIMILARLY IN ORDER TO STREAMLINE FLOWS FROM UPSTREAM TO DOWNSTREAM AND MINIMISE HEADLOSS.

IMPORTANT NOTE: PIT STANDARD DETAILS

WOLLONDILLY SHIRE COUNCIL STANDARD GRATED GULLY PITS DETAIL, WSC.D5.5 TO BE USED FOR PIT DETAILS WHERE:
A. PIT INTERNAL WIDTH IN ANY DIRECTION IS LESS THAN OR EQUAL TO 1200mm, AND
B. PIT DEPTH FROM SETOUT POINT TO INVERT IS LESS THAN OR EQUAL TO 2000mm.

FOR PITS WIDER THAN 1200mm AND/OR DEEPER THAN 2000mm REFER TO THE BELOW TABLE AND DETAILS.

NON STANDARD COUNCIL STORMWATER PIT REINFORCEMENT SCHEDULE

PIT DIMENSIONS(mm)		WALL DIMENSIONS(mm)		VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT	BASE REINFORCEMENT
LENGTH 'X','Y'	DEPTH 'H'	BASE THICKNESS 'D'	WALL THICKNESS 'W'			
1200<X,Y<3300	2000<H<3900	230	230	N12-200 E.F.	N12-200 E.F.	N12-200 E.F.
X,Y<1200	H<6000	230	230	N16-250 E.F.	N16-250 E.F.	N16-250 E.F.

NOTE: PIT REINFORCEMENT TO BE SELECTED USING MAXIMUM PIT DIMENSION

0 0.2 0.4 0.6 0.8 1m
SCALE 1:10 @A1

0 0.5 1 1.5 2m
SCALE 1:20 @A1

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Approved	DAC	13.04.18

Client: FIRSTYLE HOMES
Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE
Title: STORMWATER DRAINAGE DETAILS
SHEET 2
Status: FOR INFORMATION ONLY
NOT TO BE USED FOR CONSTRUCTION PURPOSES
Datum: AHD
Scale: AS SHOWON
Size: A1
Drawing Number: 80218065-CI-2202
Revision: 1

XREFs: XR-80218065-CI-CLIENT LOGO
CAD File: N:\Parramatta\Projects\80\2\PY180\65_Firstyle 50 Tahmoor Road\Drawings\Build\80218065-CI-2201-2202-DWG(1).dwg

DATE PLOTTED: 13 April 2018 4:21 PM BY : MARY DOZA

XREFs: XR-80218065-CI-DESIGN; XR-80218065-CI-LOT LAYOUT; XR-80218065-CI-DESIGN CONTOURS; XR-80218065-CI-CLIENT LOGO; XR-80218065-CI-SURVEY; XR-80218065-CI-CATCHMENTS; XR-80218065-CI-DRAINAGE
CAD File: N:\Parramatta\Projects\802\PY18\065_Firstyle 50 Tahmoor Road\Drawings\Bulk\80218065-CI-2301-DWG\11.dwg

CATCHMENT TABLE

CATCHMENT	AREA	DESCRIPTION
A	1.31ha	PROPOSED DEVELOPMENT AREA DRAIN TO PROPOSED OSD/BIO-RETENTION BASIN. THIS CATCHMENT WILL ALSO BE TREATED BY A GPT.
B	0.82ha	PROPOSED DEVELOPMENT AREA BYPASSES THE GPT. THIS CATCHMENT WILL DRAIN TO PROPOSED OSD/BIO-RETENTION BASIN FOR TREATMENT.
1	1.48ha	EXTERNAL PERVIOUS CATCHMENT DRAIN TO ROAD 002 DRAINAGE NETWORK.
2	2.29ha	EXTERNAL PERVIOUS CATCHMENT DRAIN TO TAHMOOR ROAD DRAINAGE NETWORK.
3	CATCHMENT AREA TO BE DETERMINED	FUTURE DEVELOPMENT DRAIN TO ROAD 004. SEPARATE DRAINAGE NETWORK TO BE PROVIDED TO ENSURE FUTURE STORMWATER RUNOFF DO NOT DRAIN TO THE PROPOSED BASIN.

Rev.	Date	Description	Des.	Verif.	Appd.
1	13.04.18	ISSUED FOR CLIENT COMMENT	BJD	DAC	DAC

FIRSTYLE HOMES

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		Date
Drawn	MCD	13.04.18
Checked	DAC	13.04.18
Designed	BJD	13.04.18
Verified	DAC	13.04.18
Approved	DAC	13.04.18

Client: FIRSTYLE HOMES

Project: RESIDENTIAL SUBDIVISION
50 TAHMOOR ROAD, TAHMOOR
PRELIMINARY ISSUE

Title: STORMWATER CATCHMENT PLAN

Status: FOR INFORMATION ONLY
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