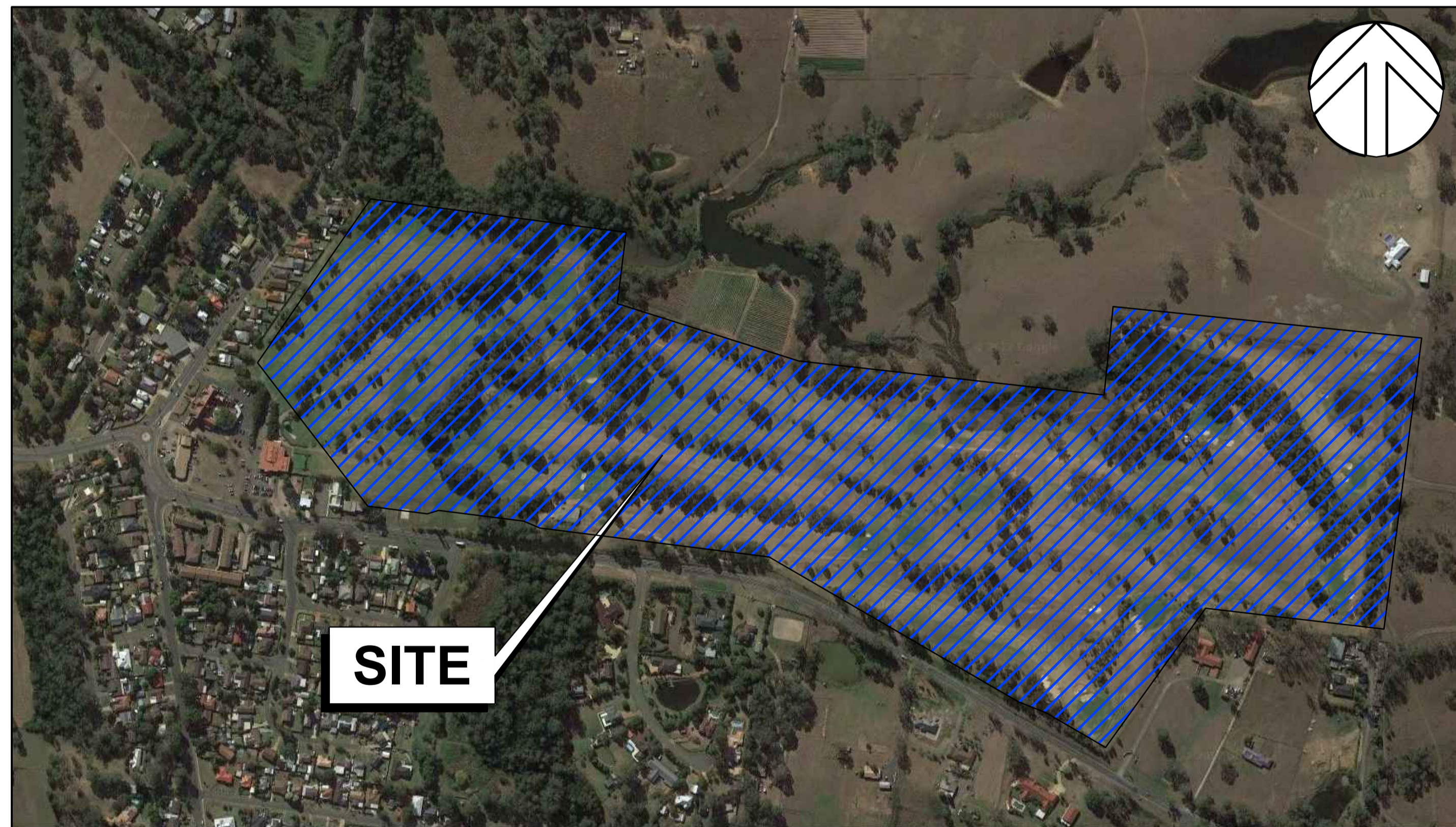


WALLACIA GOLF COURSE

DEVELOPMENT APPLICATION



LOCALITY AERIAL
NOT TO SCALE

SOURCE : GOOGLE EARTH

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Job: Proj: 5936000 | Drawing: 202508000 | VSP-CSC-1.01 | Cover Sheet.dwg
 Client: Catholic Cemeteries & Crematoria
 Project Manager: CAMERON NIXON
 Architect: IGNITE

CLIENT	 Catholic Cemeteries & Crematoria Care, Compassion, Choice
PROJECT MANAGER	CAMERON NIXON
ARCHITECT	IGNITE

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Consulting Engineers

Hydraulic Services | Civil Engineering | Fire Protection | Sydney Water Accredited • Water Servicing Co-ordinator • Design and Project Management

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QUALITY ASSURED COMPANY
 ISO 9001
 International Standards Certificate
 Lic: QAC/R61/0771

TITLE				
COVER SHEET				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	M.C.	M.C.
JOB No.	DRAWING No.		ISSUE	
5936000	C1.01		3	
DATE	STATUS		Plot Date	
02/10/18	DEVELOPMENT APPLICATION			

GENERAL

- G1. DESIGN HEREIN HAS BEEN PREPARED BY WARREN SMITH AND PARTNERS PTY LTD CONSULTING CIVIL ENGINEERS, LEVEL 9, 233 CASTLEREAGH ST, SYDNEY NSW 2000. TEL:- (02) 9299 1312, FAX:- (02) 9290 1295.
 - G2. ALL DIMENSIONS IN MILLIMETRES UNO. REDUCED LEVELS AND CHAINAGES ARE IN METRES. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS.
 - G3. THE PROPOSED WORKS DETAILED HEREIN SHALL BE CONSTRUCTED TO THE REQUIREMENTS OF COUNCIL GENERALLY AS DETAILED HEREUNDER.
 - G4. ALL EXISTING SERVICES SHALL BE VERIFIED FOR DEPTH AND HORIZONTAL POSITION BY PHYSICAL MEANS PRIOR TO EXCAVATION. ANY DISCREPANCIES SHALL BE BROUGHT FORTHWITH TO THE PROJECT MANAGER'S ATTENTION.
- STORMWATER & SUB-SOIL DRAINAGE MATERIALS:**
- STW1. PIPES AND FITTINGS FOR STORMWATER DRAINAGE SHALL BE AS FOLLOWS UNO ON THE DRAWINGS:
 - A. SEWER GRADE uPVC (SN8) WITH SOLVENT WELDED JOINTS FOR BELOW GROUND DRAINAGE UP TO 255mm FIBRE REINFORCED CEMENT CLASS 2 WITH RUBBER RINGS FOR PIPE DIA'S GREATER THAN 225mm. UNO.
 - B. REINFORCED CONCRETE WHERE REQUIRED BY AS 3500 FOR EXCESSIVE DEPTH.
 - D. INSTALL IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
 - STW2. PIPES & FITTINGS FOR SUBSOIL DRAINAGE SHALL BE SLOTTED POLYVINYL CHLORIDE (uPVC) WITH SOLVENT WELDED JOINTS, MIN. 150mm DIAMETER.
 - STW3. IN GROUND DRAINAGE PIPEWORK SERVING DP's SHALL BE MINIMUM 150mm DIA. UNO.
 - STW4. GRATED DRAINS SHALL BE 150mm NOM.
 - A. 150mm NOM. WIDTH IN NON TRAFFICABLE AREAS.
 - B. 225mm NOM. WIDTH IN TRAFFICABLE AREAS.
 - STW5. STORMWATER PITS ARE AS SHOWN & SPECIFIED ON THE PLANS. PRECAST TYPE ACCEPTABLE WITH STEP IRONS FOR DEPTH GREATER THAN 1200. BENCH ALL PITS MIN. 50mm & FORM SMOOTH TRANSITION FROM INLET TO OUTLET
 - STW6. SELECT FILL SHALL BE MATERIAL OBTAINED FROM EXCAVATION OF THE PIPE TRENCH OR IMPORTED WITH A PARTICLE SIZE FOR ROCK NOT GREATER THAN 75mm OR FOR OTHER THAN ROCK NOT GREATER THAN 150mm.
 - STW7. IMPORTED FILL SHALL BE EITHER, AND GENERALLY CONSIST OF SINGLE SIZED AGGREGATE WITH PARTICLE SIZE NOT GREATER THAN 5mm WRAPPED ALL ROUND WITH GEOTEXTILE FILTER FABRIC OR APPROVED HIGH COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RTA FORM 3051 OR SIMILAR.
 - STW8. STORMWATER PITS AND GRATES TO CONFORM WITH STANDARD COUNCIL REQUIREMENTS, WHERE ON PUBLIC LAND. GRATES TO BE SUPPLIED IN CLASS SHOWN ON THE DRAWINGS.
- INSTALLATION REQUIREMENTS:**
- STW9. PIPES SHALL BE TRUE TO GRADES SHOWN AND ALIGNED SO THAT THE CENTRES OF THE INLET PIPES INTERSECT WITH THE CENTRE OF THE OUTLET PIPE AT THE DOWNSTREAM FACE OF THE PIT.
 - STW10. MINIMUM GRADES FOR GRAVITY STORMWATER DRAINAGE SHALL CONFORM TO AS3500 PART3 AS FOLLOWS, UNO:
 - 1% FOR 100 AND 150 mm DIA.
 - 0.5% FOR 225 mm DIA
 - 0.5% FOR 300 mm DIA
 - 0.4% FOR 375 mm DIA
 - STW11. MINIMUM DEPTH OF COVER SHALL BE :-
 - 300mm IN PRIVATE PROPERTY (NON VEHICULAR TRAFFIC).
 - 450mm IN PUBLIC AREAS.
 - 600mm IN VEHICULAR TRAFFICABLE AREAS (FOOTWAY/ROADWAY)
 - STW12. BED ALL PIPES FIRMLY AND EVENLY ONTO IMPORTED BEDDING FILL MATERIAL.
 - STW13. LAY AND JOINT ALL PIPES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND AS 3725-1989 BURIED FLEXIBLE PIPELINES AS 2566-1998 LOADS ON BURIED FLEXIBLE PIPELINES AS 1597.2-1996 PRECAST REINFORCED CONCRETE BOX CULVERTS. AS 3500-1990 NATIONAL PLUMBING & DRAINAGE CODE. PART 2, SANITARY PLUMBING AND SANITARY DRAINAGE. SYDNEY WATER REQUIREMENTS.
 - STW14. ALLOW TO TEST ALL PIPES AND PITS TO MANUFACTURERS REQUIREMENTS.
- CONCRETE WORKS**
- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, THE STANDARDS ASSOCIATION AUSTRALIA, STANDARDS CITED IN AS3600, THE DRAWINGS AND THE SPECIFICATION.

- C2. ALL CONCRETE SHALL BE 80mm NOMINAL SLUMP, 20mm MAXIMUM AGGREGATE WITH NO ADMIXTURES OR FLY ASH, UNLESS OTHERWISE APPROVED. ALL CONCRETE WORK IN CONTACT WITH SEWER TO HAVE TYPE SL PORTLAND CEMENT, OTHERWISE TYPE A CEMENT FOR BRIDGE WORKS, A MAXIMUM 56 DAYS SHRINKAGE OF 600 MICROSTRAIN, A MINIMUM CEMENT CONTENT 350kg/m3 AND MAXIMUM WATER-CEMENT RATIO OF 0.40
- C3. STRENGTH GRADE OF CONCRETE SHALL BE : 25 MPa (KERBS, EDGE STRIPS & CONCRETE ENCASEMENT) AND 32 MPa ELSEWHERE.
- C4. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR APPROVED. GENERALLY FOR HAND PLACED KERB & GUTTER 6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 6m. FOR MACHINE PLACED KERB & GUTTER 6mm THICK APPROVED BITUMINOUS MASTIC JOINTING MATERIAL SHALL BE PROVIDED AT INTERVALS NOT EXCEEDING 12m & GUILLOTINED DUMMY GROOVED JOINTS, 25mm IN DEPTH, SHALL BE FORMED EVERY 3m OF GUTTER. JOINTS ARE ALSO REQUIRED AT EACH END OF GUTTER CROSSING AND GULLY PITS. JOINTS SHALL BE SET VERTICAL AND SQUARE TO THE KERB. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND IS NOT NECESSARILY SHOWN IN TRUE PROJECTION. ELDING OR SPLICES IN REINFORCEMENT SHALL BE USED ONLY IN POSITIONS APPROVED BY THE ENGINEER. CONCRETE CURING SHALL BE IN ACCORDANCE WITH AS3600. CURING SHALL BE COMMENCED WITHIN TWO HOURS OF FINISHING OPERATIONS AND SHALL BE CONTINUED FOR A MINIMUM OF SEVEN DAYS BY AN APPROVED PROPRIETARY COMPOUND OR BY KEEPING CONTINUOUSLY WET.
- C5. FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS3610. FORMWORK SHALL NOT BE STRIPPED NOR PROPS REMOVED WITHOUT APPROVAL.
- C6. FABRIC LAP DETAILS SHALL BE IN ACCORDANCE WITH FIG.13.2.4 OF AS3600.
- C7. HOOKS, LAPS AND BENDS SHALL BE IN ACCORDANCE WITH AS3600 UNO.
- C8. ALL CHEMICAL ANCHORS SHALL BE EITHER 'CHEMSET' BY 'RAMSET' WITH THE GLASS CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS %w/w OR HILTI HVU ADHESIVE ANCHOR WITH FOIL CAPSULE SYSTEM INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTION.
- C9. ALL CHEMICAL ANCHORS SHALL BE HOT DIPPED GALVANIZED AND BE MIN M16 DIA. U.N.O.

GENERAL EARTHWORKS, SITEWORKS & FILLING:

- FILLING:**
- SGE1. THESE CLAUSES SHALL BE READ IN CONJUNCTION WITH GEOTECHNICAL INVESTIGATION
 - SGE2. THE RECOMMENDATIONS CONTAINED IN THE GEOTECH REPORT SHALL OVERRIDE THE CLAUSES PRESENTED HEREIN.
 - SGE3. STRIP ALL TOPSOIL AND UNDERLYING FILL AND STOCKPILE TOPSOIL FOR LATER REUSE FOR LANDSCAPING PURPOSES.
 - SGE4. NEW FILL REQUIRED TO REINSTATE CUT LEVELS TO PROPOSED BENCHING LEVELS SHALL BE SOURCED FROM OTHER PARTS OF THE EXCAVATION AS SELECT FILL OR IMPORTED FILL AS SPECIFIED BELOW IN SGE 4 AND SGE 5.
 - SGE5. SELECT FILL SHALL CONSIST OF LOCALLY DERIVED OR CUT NATURAL CLAYS.
 - SGE6. IMPORTED FILL SHALL CONSIST OF RIPPED SANDSTONE OR SHALE OR SIMILAR MATERIAL WITH MAXIMUM PARTICLE SIZE NOT GREATER THAN 120mm AND A MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.
 - SGE7. ALL FILL (COHESIVE SOIL) SHALL BE PLACED IN LAYERS OF 200mm MAXIMUM THICKNESS, COMPACTED BY MACHINE ROLLING TO ACHIEVE A DRY DENSITY RATIO OF NOT LESS THAN 98% STANDARD MAXIMUM AT A CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.
 - SGE8. IN AREAS WHERE HIGH IMPACT ROLLING IS USED TEST EACH FINAL LAYER OF NOT GREATER THAN 300mm TO 400mm TO ACHIEVE A DRY DENSITY SGE8. RATIO OF NOT LESS THAN 98% STANDARD MAXIMUM AT A CORRESPONDING MOISTURE CONTENT WITHIN 2-3% OF STANDARD OPTIMUM.
- EXCAVATION BATTERS:**
- SGE9. ALL TEMPORARY BATTERS CUT IN CLAY SUBSTRATE SHALL BE 1 HORIZ : 1 VERT. ALL LONG TERM EXPOSED BATTERS CUT IN CLAY SUBSTRATE SHALL BE 2 HORIZ : 1 VERT. ALL DETENTION BASIN BATTERS IN CLAY SUBSTRATE SHALL BE 3 HORIZ : 1 VERT. ALL DETENTION BASIN BATTERS IN ROCK SUBSTRATE SHALL BE NEAR VERTICAL.
 - SGE10. GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT LEAST LEVEL 2 CONTROL OF FILL COMPACTION STANDARD, AS DEFINED IN AS. 3738 AS FOLLOWS
- FOR GENERAL FILL OR CUT AREAS OVER THE AREA PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN AREA NOT GREATER THAN 500 m²
 - FOR GENERAL FILL AREAS IN CONCENTRATED AREAS ADJACENT TO AND BEHIND THE STRUCTURE AND

- ADJACENT TO AND BEHIND RETAINING WALLS PROVIDE ONE (1) TEST PER 200mm LAYER, OVER AN AREA NOT GREATER THAN 50m²
 - SGE11. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.
- EARTH WORKS FOR SERVICES**
- E1. EXCAVATE TRENCHES AND STOCKPILE ALL MATERIAL FOR INSPECTION WITH REGARD TO RE-USE FOR TRENCH BACKFILL. REMAINING MATERIAL TO BE REMOVED FROM SITE.
 - E2. BEDDING MATERIAL SHALL CONSIST OF IMPORTED FILL ONLY. THICKNESS OF BEDDING LAYER SHALL BE 75mm IN O.T.R. AND 200mm IN ROCK.
 - E3. EMBED ALL PIPES WITH IMPORTED FILL. PROVIDE 200mm SIDE SUPPORT AND 150mm OVERLAY ABOVE PIPE CROWN.
 - E4. TRENCH FILL ABOVE THE EMBEDMENT ZONE TO THE UNDERSIDE OF THE ROAD PAVEMENT OR FOOTWAY FILL MATERIAL SHALL BE AS FOLLOWS :

UNDER ROADWAY

TRENCH FILL MATERIAL SHALL CONSIST OF IMPORTED FILL AS SPECIFIED HEREIN OF EITHER HIGH GRADE COMPACTION SAND OR APPROVED CRUSHED ROAD GRAVEL CONFORMING TO RTA FORM 3051 OR SIMILAR.

OTHER THAN ROADWAY

TRENCH FILL MATERIAL EXCAVATED SHALL CONSIST OF SELECT FILL AS SPECIFIED HEREIN AND SHALL NOT CONTAIN MORE THAN 20% OF STONES OF SIZE BETWEEN 75mm & 150mm AND NONE LARGER THAN 150mm. PRIOR TO THE USE OF THE EXCAVATED MATERIAL IT SHALL BE INSPECTED AND APPROVED BY THE CONSULTANT.

COMPACT BEDDING, EMBEDMENT AND TRENCH FILL MATERIALS AS FOLLOWS:

EMBEDMENT:- FOR GRANULAR FILL MATERIAL (NON-COHESIVE SOILS) EG. COARSE AGGREGATE FILL, HIGH GRADE COMPACTION SAND, THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%.

TRENCH FILL:- FOR GRANULAR MATERIAL (NON-COHESIVE SOILS), THE DENSITY INDEX (ID) SHALL BE NOT LESS THAN 70%.

FOR NON-GRANULAR FILL MATERIAL (COHESIVE SOILS), THE DRY DENSITY RATIO (RD) SHALL BE NOT LESS THAN 95%.

MEASURE OF COMPACTION:- THE DEGREE OF COMPACTION SHALL BE MEASURED BY ONE OF THE FOLLOWING PARAMETERS :-

GRANULAR FILL (NON-COHESIVE SOILS). THE DENSITY INDEX (ID) DETERMINED IN ACCORDANCE WITH AS 1289.E6.1 BASED ON THE MAXIMUM AND MINIMUM DRY DENSITIES IN ACCORDANCE WITH AS 1289.E5.1 AND THE FIELD DRY DENSITY IN ACCORDANCE WITH AS 1289.5.3.2, AS 1289.E3.5 OR AS 1289.E8.1.

NON-GRANULAR FILL (COHESIVE SOILS). THE DRY DENSITY RATION (RD) DETERMINED IN ACCORDANCE WITH AS 1289.5.4.1 BASED ON THE FIELD DRY DENSITY IN ACCORDANCE WITH AS 1289.5.3.2 AND THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.1.1

GEOTECHNICAL TESTING IS TO BE UNDERTAKEN TO AT LEAST LEVEL 2 CONTROL OF FILL COMPACTION STANDARD, AS DEFINED IN AS. 3738 AS FOLLOWS:

- TEST EACH 300mm LAYER ABOVE PIPE CROWN.
- TEST BASE & SUB-BASE LAYERS WHERE APPLICABLE.
- TESTS SHALL BE REQUIRED AT EACH 50m CENTRES WHERE THE LENGTH OF TRENCH IS WITHIN THE 50m REQUIREMENT.

SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.

RESTORATION:

- RES1. RESTORE ALL TRAFFIC AREAS TO PRE EXISTING CONDITION.
- RES2. FOR ALL SURFACES OTHER THAN IN TRAFFIC AREAS RESTORE DISTURBED SURFACES TO PRE-EXISTING CONDITIONS AND COMPACT AS SPECIFIED.
- RES3. RESTORE ALL AUTHORITY OWNED AREAS TO COUNCIL STANDARDS

ROAD WORKS, DRIVEWAYS & CARPARKS

ALLOW FOR LEVEL 2 TESTING AND SUB-GRADE CONDITIONS & PAVEMENT THICKNESS TO BE VERIFIED BY GEOTECHNICAL CONSULTANT AFTER INSPECTION OF PRELIMINARY BOXING.

- R2. ALLOW FOR ANY SUB-GRADE REPLACEMENT WORK TO BE DETERMINED AS REQUIRED BY GEOTECHNICAL CONSULTANT AT THE TIME OF PAVEMENT CONSTRUCTION.
- R3. MINIMUM DRY DENSITY RATIOS (AS 1289 3.4.1-1993) TO BE:
 - BASE COURSE: 98% MODIFIED
 - SUB-BASE: 95% MODIFIED
 - SUB-GRADE: 100% STANDARD
 - SUB-GRADE REPLACEMENT: 100% STANDARD
- R4. PAVEMENT MATERIALS TO COMPLY WITH RMS SPECIFICATION No. 3051 OR SIMILAR AS APPROVED BY GEOTECHNICAL CONSULTANT.
- R5. PROVIDE (1) TEST FOR EACH LAYER NOT EXCEEDING 250mm THICK BEING BASECOURSE, SUB-BASE & SUB-GRADE OVER AN AREA NOT GREATER THAN 500m²
- R6. SUBMIT ALL GEOTECHNICAL TEST RESULTS TO WARREN SMITH & PARTNERS FOR REVIEW PRIOR TO CONTINUATION WITH SUBSEQUENT SECTION OF WORK.

APPROVALS

- A1. THE AS CONSTRUCTED WORKS SHALL BE INSPECTED DESIGN CONSULTANT. MINIMUM 48 HOURS NOTICE SHALL APPLY TO ALL INSPECTIONS.
- A2. THE DESIGN PLANS HEREIN ARE SUBJECT TO COUNCIL APPROVAL PRIOR TO CONSTRUCTION. OBTAIN EXPRESS (WRITTEN) ADVICE TO PROCEED FROM PROJECT MANAGER PRIOR TO COMMENCEMENT.
- A3. SUBMIT WORK-AS-EXECUTED DRAWINGS IN CIVILCAD OR DXF DIGITAL FORMAT AND HARD COPY FORMAT. VERIFY ALL CONSTRUCTION WORKS SHOWN HEREON.
- A4. CERTIFY THAT THE AS CONSTRUCTED SYSTEM HAS BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS ISSUED FOR CONSTRUCTION.

SERVICES UNDER ROAD SURFACES

ALL OTHER SERVICES INCLUDING BUT NOT LIMITED TO WATER, HYDRANT, GAS, SEWER, ELECTRICAL AND COMMUNICATIONS CONDUITS OR CABLES SHALL BE LAID WITH MINIMUM 600mm U.N.O. COVER BELOW PROPOSED ROAD SURFACE OR APPROVED OTHER MEANS TO PROTECT DURING CONSTRUCTION.

ROAD SIGNS & LINE MARKING

- RS1. ALL SIGNS AND LINEMARKING SHALL BE TO RMS STANDARDS AND SPECIFICATIONS AND AS 1742. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
- RS2. ALL LINEMARKING SHALL BE AUGMENTED BY RETROREFLECTIVE RAISED PAVEMENT MARKERS (RRPMs) AND ALL SHALL BE TO AS 1742.2 - 1994 AND AS 1742.2 /AMDT 1/1997-10-05
- RS3. ALL ROAD SIGNS AND POSTS SHALL BE TO AS 1742.2 - 1994 AND AS 1742.2 /AMDT 1/1997-10-05

PROTECTION OF FLORA - REFER SPECIFICATION

- 1. ANY TRENCHES WITHIN 3m OF TREES SHALL BE HAND DUG TO AVOID DAMAGE TO TREE ROOTS.
- 2. THE SEWERAGE WORKS HAVE BEEN LOCATED TO MINIMISE CLEARING AND DAMAGE TO THE EXISTING FLORA ENVIRONMENT. NO TREES ARE PERMITTED TO BE REMOVED OR DAMAGED UNO. CONSTRUCTION OF THE SEWER GRAVITY OR RISING MAIN IN THE VICINITY OF EXISTING TREES SHALL BE HAND EXCAVATED ONLY, ENSURING IRREVERSIBLE DAMAGE OF THE ROOT SYSTEM DOES NOT OCCUR.
- 3. IF IT IS CONSIDERED NECESSARY TO PERFORM ANY WORK ON TREES, INCLUDING TRIMMING, LOPPING, ROOT CUTTING, REPAIR AND REMOVAL, APPLICATION IN WRITING SHALL BE MADE BY THE CONTRACTOR TO THE SUPERINTENDENT. ANY WORK PERMITTED TO BE DONE ON TREES TO BE RETAINED SHALL BE PERFORMED BY AN APPROVED TREE SURGEON.
- 4. NO MATURE TREES OR SHRUBS ARE TO BE REMOVED FOR THE PURPOSES OF THE WORKS WITHOUT PRIOR APPROVAL OF PENRITH CITY COUNCIL.

AUTHORITY STANDARDS

THE DRAWINGS HEREIN SHALL BE READ IN CONJUNCTION WITH LOCAL AUTHORITY'S STANDARDS & SPECIFICATIONS WHICH SHALL OVERRIDE SPECIAL DETAILS SHOWN ON THE DRAWINGS.

CLOSED CIRCUIT COLOUR TV (CCTV)

UNDERTAKE A CCTV INSPECTION OF ALL THE COMPLETED DRAINAGE IN ACCORDANCE WITH THE GUIDELINES OF THE THE AUSTRALIAN CONDUIT CONDITION EVALUATION MANUAL (ACCEM)

- CCTV2. APPLY THE FOLLOWING REQUIREMENTS TO THE CCTV INSPECTION:-
 - A. USE DATA CAPTURE SOFTWARE APPROVED BY SYDNEY WATER
 - B. USE CERTIFIED CCTV OPERATORS
 - C. THE CCTV VIDEOTAPE SHALL BE OF QUALITY TO ALLOW ACCURATE ASSESSMENT OF THE INTERNAL CONDITION OF THE PIPE.
- CCTV3. FURNISH TO THE DESIGN OF THE CONSULTANT:-
 - A. VIDEOS IN MPG FORMAT FOR REVIEW
 - B. CCTV REPORT AND SURVEY DATA IN PDF FORMAT

DO NOT SCALE FROM DRAWINGS. CHECK & VERIFY ALL DIMENSIONS & LEVELS BEFORE COMMENCEMENT OF ANY WORK.

THIS DRAWING IS NOT TO BE COPIED IN PART OR WHOLE WITHOUT WRITTEN PERMISSION FROM WARREN SMITH AND PARTNERS.

REVISION	AMENDMENT	DATE
01	ISSUE FOR DEVELOPMENT APPLICATION	20/10/17
02	RE-ISSUE FOR DEVELOPMENT APPLICATION	09/03/18
03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18

REVISION	AMENDMENT	DATE

CLIENT



Catholic Cemeteries & Crematoria
Care, Compassion, Choice

PROJECT

WALLACIA GOLF COURSE

Warren Smith & Partners

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CONSULTING ENGINEERS

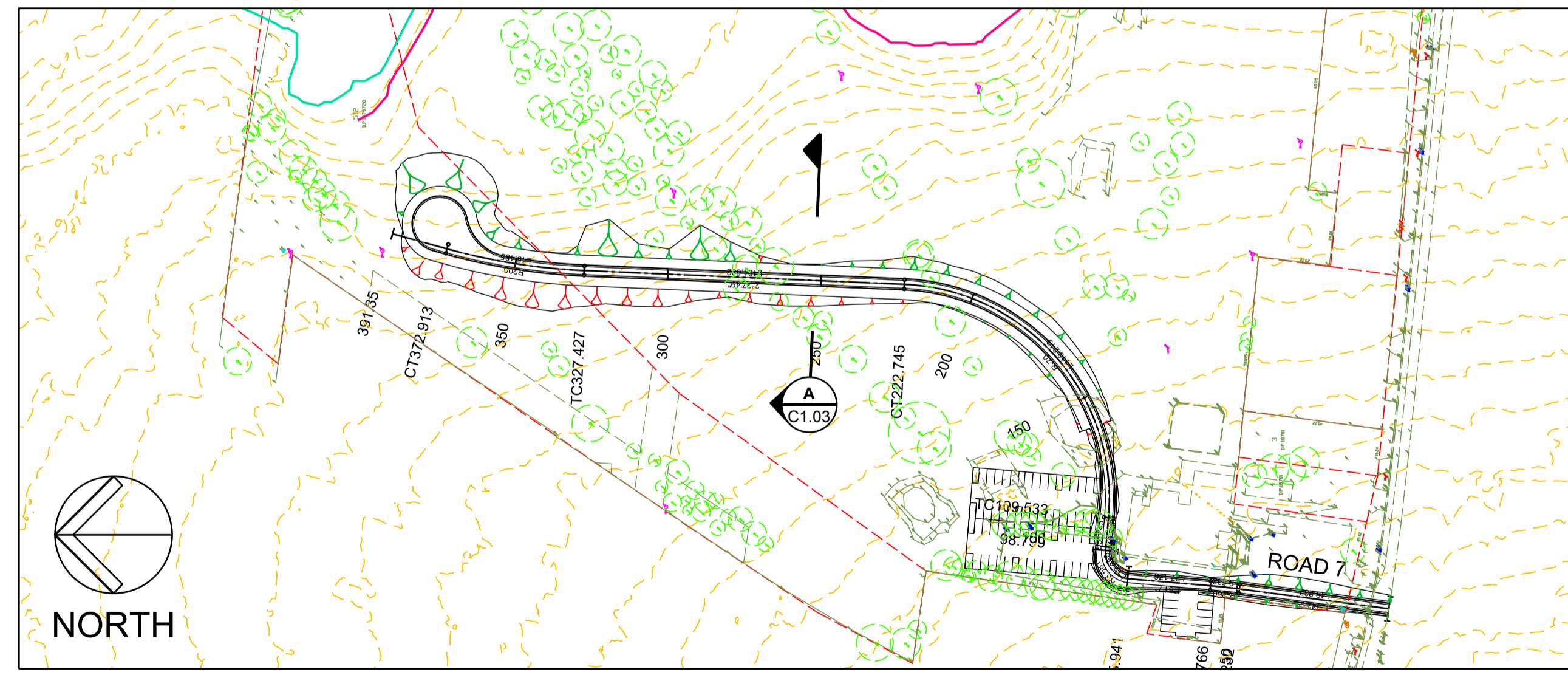
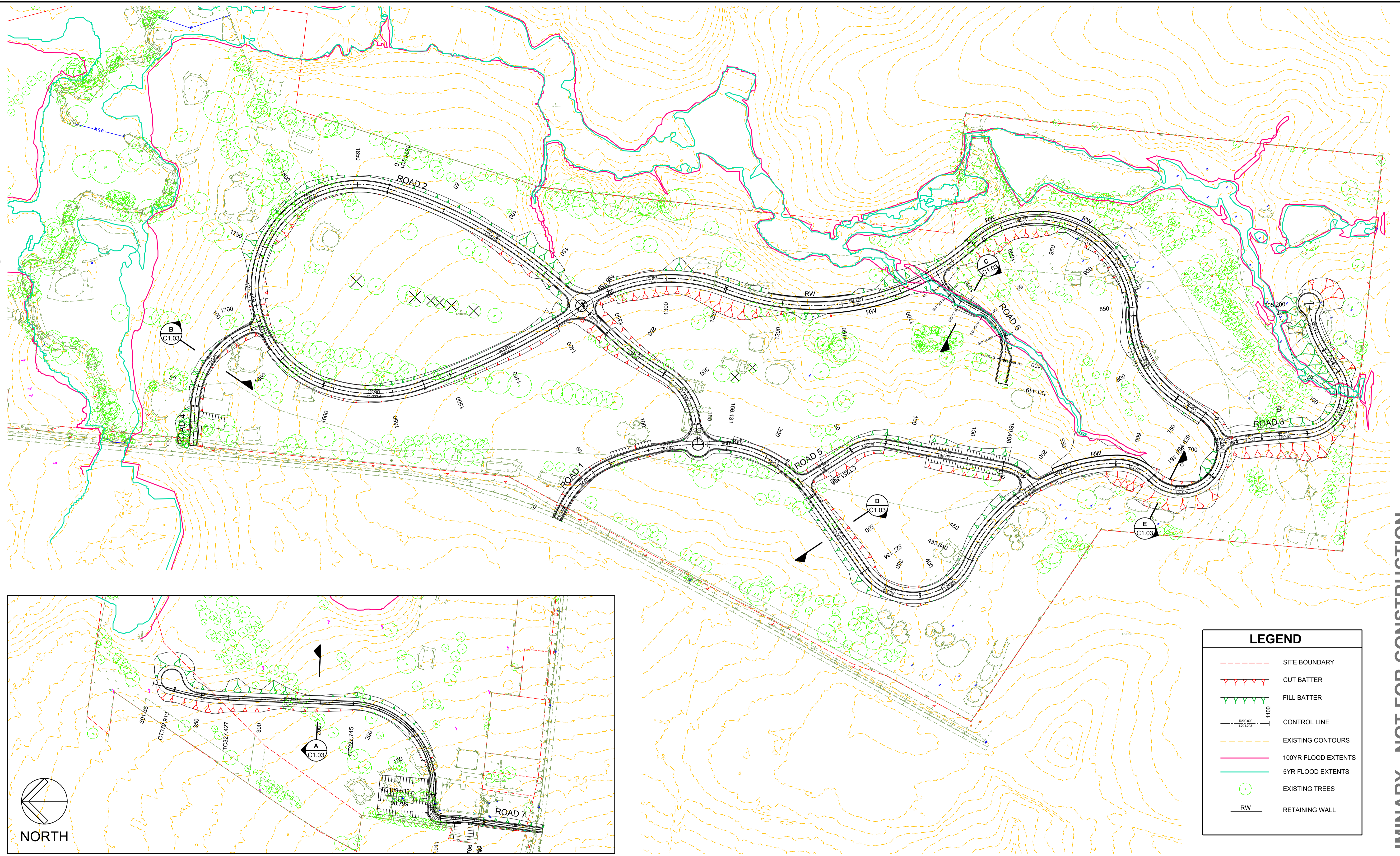
- Hydraulic Services Fire Protection Civil Engineering
- Sydney Water Accredited Water Servicing Co-ordinator
- Design Project Management - Building Plan Approvals

SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

SPECIFICATION NOTES				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.
JOB No.	DRAWING No.	ISSUE		
5936000	C1.02	3		
DATE	STATUS			
02/10/18	DEVELOPMENT APPLICATION			

PRELIMINARY - NOT FOR CONSTRUCTION

REFER IN SET A



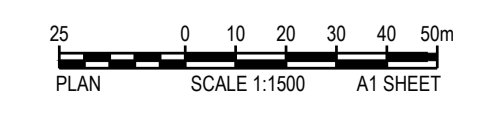
INSET A
SCALE 1:1500

LEGEND	
	SITE BOUNDARY
	CUT BATTER
	FILL BATTER
	CONTROL LINE
	EXISTING CONTOURS
	100YR FLOOD EXTENTS
	5YR FLOOD EXTENTS
	EXISTING TREES
	RETAINING WALL

PLAN
SCALE 1:1500

PRELIMINARY - NOT FOR CONSTRUCTION

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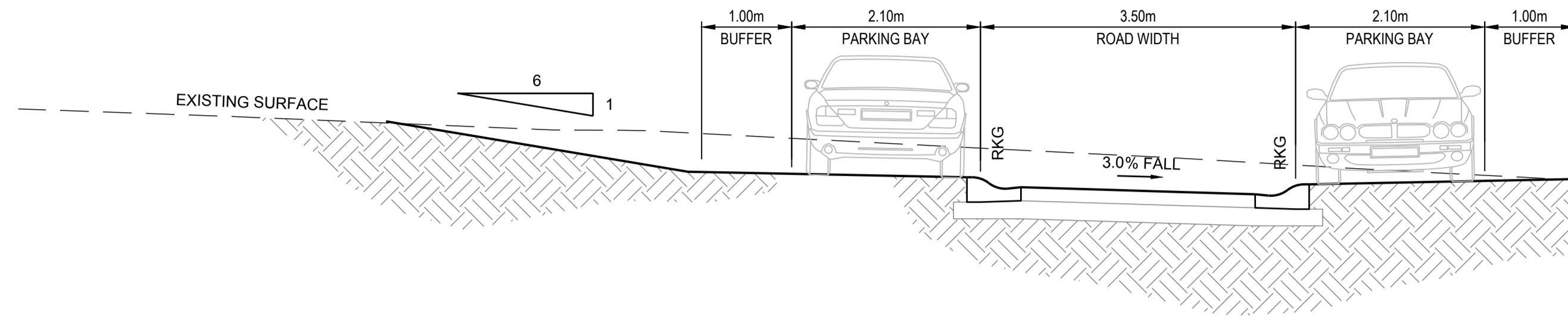
PROJECT
WALLACIA GOLF COURSE

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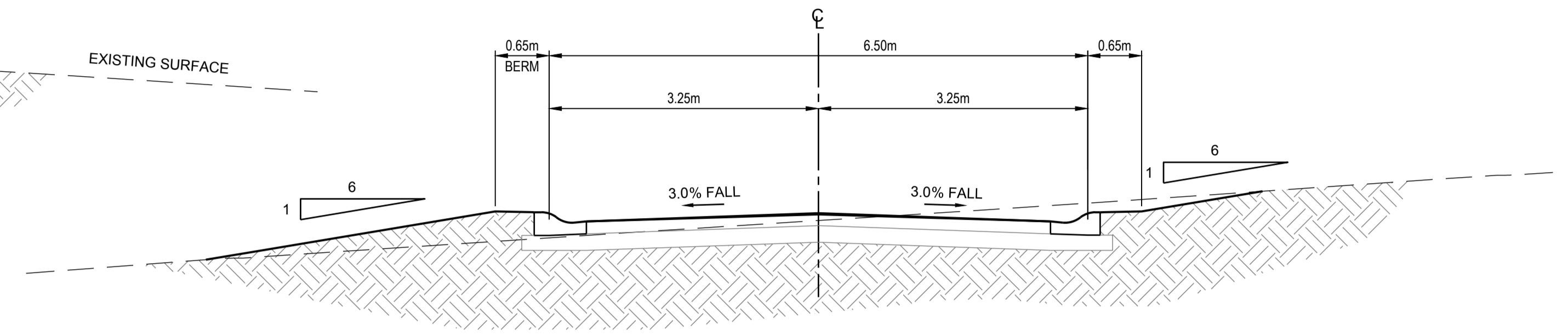
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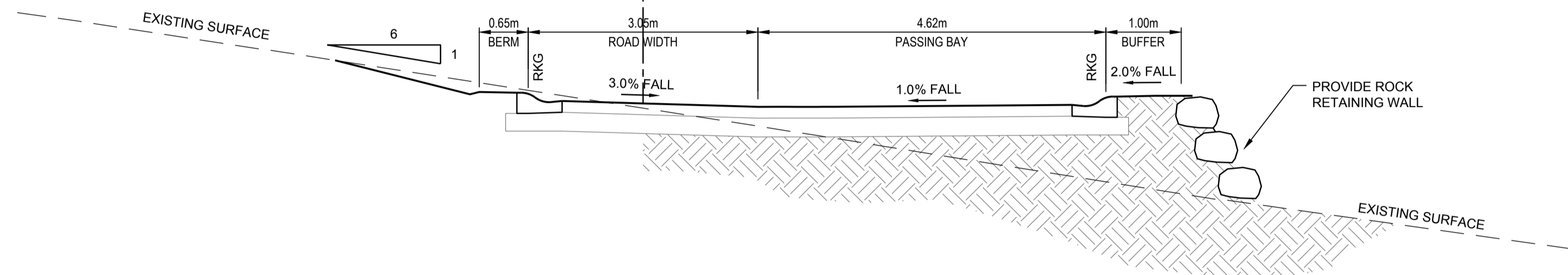
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SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.
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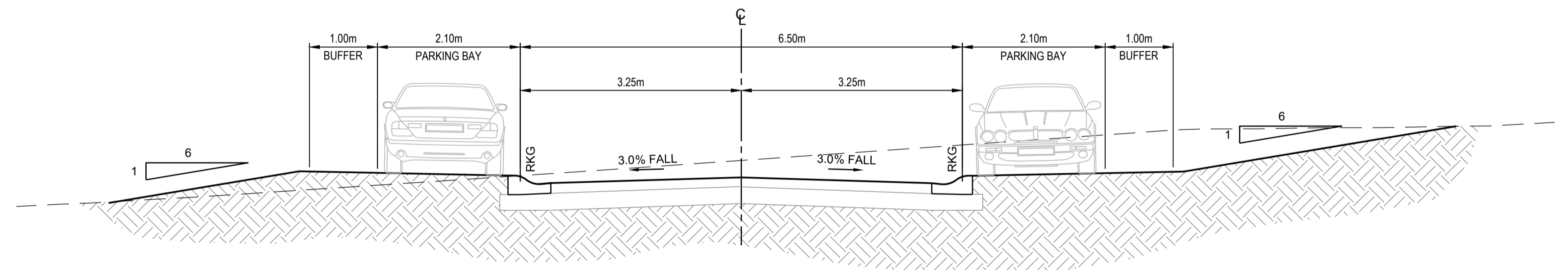
TYPICAL SECTION A
ONE-WAY ROAD
PARKING BOTH SIDES
 SCALE 1:50



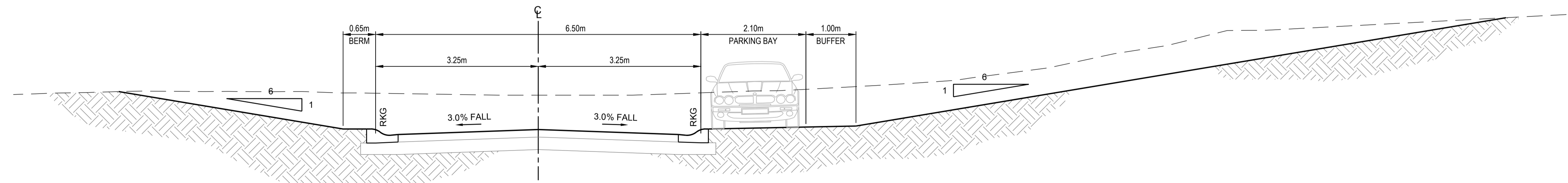
TYPICAL SECTION B
TWO WAY ROAD
NO PARKING
 SCALE 1:50



TYPICAL SECTION C
ONE WAY ROAD
WITH PASSING BAY
 SCALE 1:50



TYPICAL SECTION D
TWO WAY ROAD
PARKING ON BOTH SIDES
 SCALE 1:50



TYPICAL SECTION E
TWO WAY ROAD
PARKING ON ONE SIDE
 SCALE 1:50

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01	ISSUE FOR DEVELOPMENT APPLICATION	20/10/17			
02	RE-ISSUE FOR DEVELOPMENT APPLICATION	09/03/18			
03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18			

REVISION	AMENDMENT	DATE

CLIENT

 Catholic Cemeteries & Crematoria
 Care, Compassion, Choice

PROJECT
WALLACIA GOLF COURSE

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 Warren Smith & Partners Pty Ltd
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CONSULTING ENGINEERS
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TITLE				
TYPICAL SECTIONS				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.
JOB No.	DRAWING No.		ISSUE	
5936000	C1.04		3	
DATE	STATUS			
02/10/18	DEVELOPMENT APPLICATION			

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SEDIMENT BASIN VOLUME TABLE

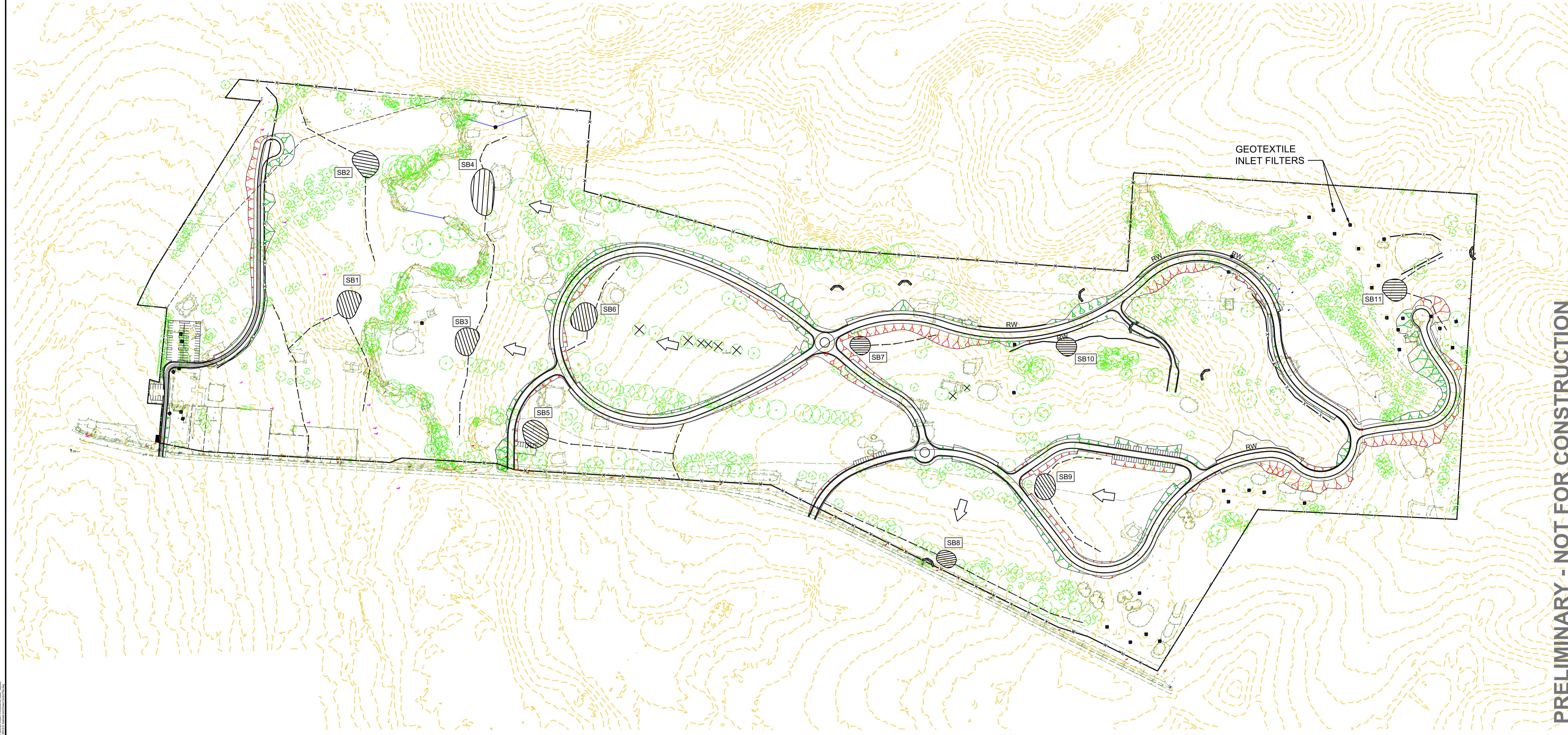
Basin No.	SB1	SB2	SB3	SB4	SB5	SB6	SB7	SB8	SB9	SB10	SB11
Total Volume (cu.m.)	722	736	393	547	731	600	277	596	303	438	116

NOTES:

- ALL SEDIMENT BASINS DESIGNED TO 5 DAY 80TH PERCENTILE RAINFALL EVENT.
- EMERGENCY CREST & SPILLWAY TO BE MIN. 2.5m WIDE AND MIN. 750mm FREEBOARD BELOW TOP OF EMBANKMENT.
- RELOCATE SEDIMENT FENCE & EROSION PROTECTION MEASURES AS THE WORK PROGRESSES THROUGH THE DIFFERENT STAGES OF THE WORK.

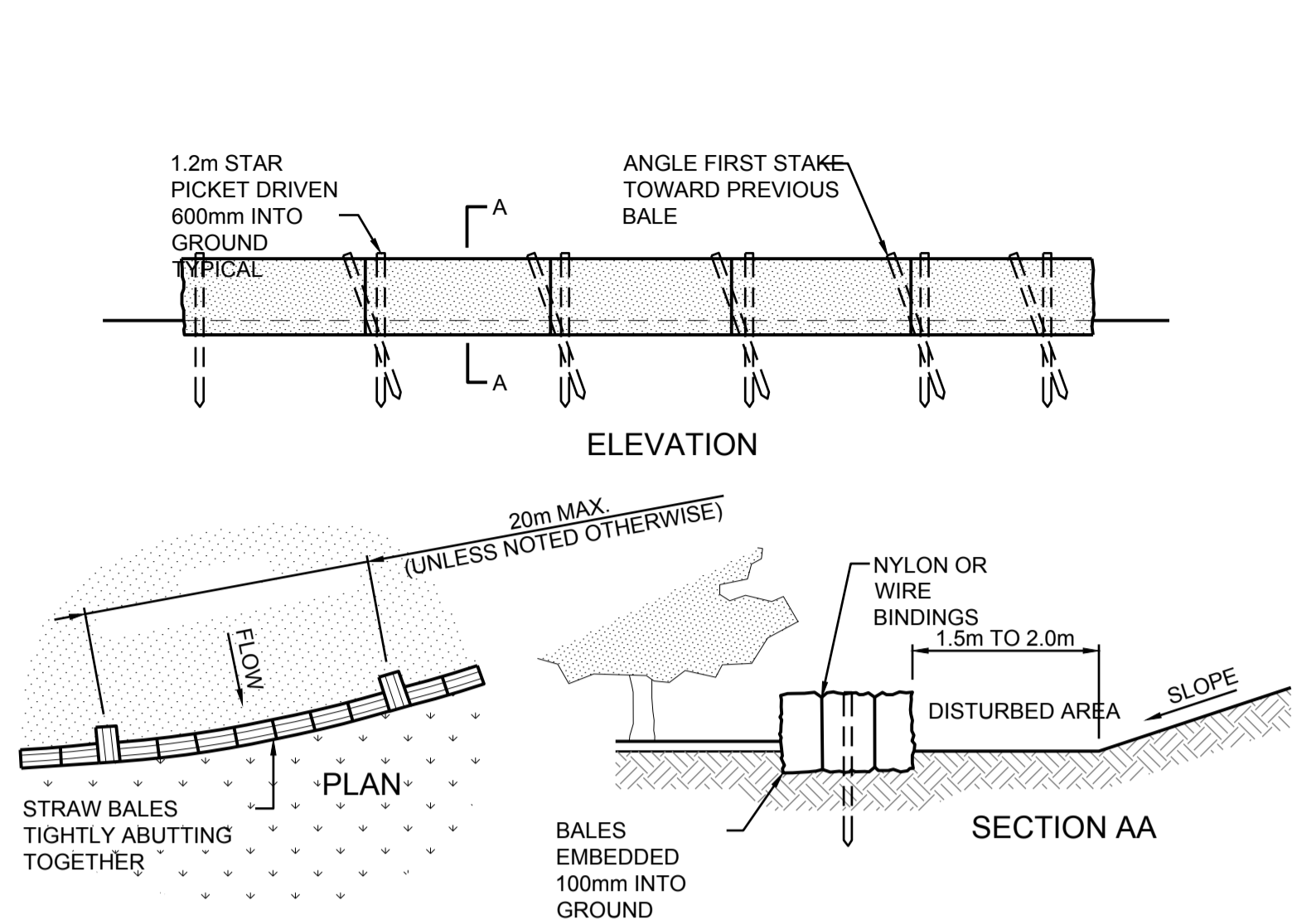
LEGEND

	SITE FENCE
	SITE GATE
	SEDIMENT FENCE
	GEOTEXTILE INLET FILTER - DROP INLET SEDIMENT TRAP
	VEHICLE ENTRY GATE
	TEMPORARY SEDIMENT BASIN
	DIVERSION BANK AND CHANNEL
	SEDIMENT TRAP - HAY BALES



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<p>NORTH</p>	<p>SCALE 1:2000 A1 SHEET</p>	<table border="1"> <thead> <tr> <th>REVISION</th> <th>AMENDMENT</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>ISSUE FOR DEVELOPMENT APPLICATION</td> <td>20/10/17</td> </tr> <tr> <td>02</td> <td>RE-ISSUE FOR DEVELOPMENT APPLICATION</td> <td>09/03/18</td> </tr> <tr> <td>03</td> <td>RE-ISSUE FOR DEVELOPMENT APPLICATION</td> <td>02/10/18</td> </tr> </tbody> </table>	REVISION	AMENDMENT	DATE	01	ISSUE FOR DEVELOPMENT APPLICATION	20/10/17	02	RE-ISSUE FOR DEVELOPMENT APPLICATION	09/03/18	03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18	<table border="1"> <thead> <tr> <th>REVISION</th> <th>AMENDMENT</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISION	AMENDMENT	DATE				<p>CLIENT</p> <p>Catholic Cemeteries & Crematoria Care, Compassion, Choice</p>	<p>PROJECT</p> <p>WALLACIA GOLF COURSE</p>	<p>CONSULTING ENGINEERS</p> <p>Warren Smith & Partners Pty Ltd 1st Floor, 123 Clarence Street, Sydney 2000 NSW Australia T 02 9298 1312 F 02 9290 1295 wsp@warrensmith.com.au www.warrensmith.com.au ABN 38 300 430 128</p> <p>Hydraulic Services Fire Protection Civil Engineering Sydney Water Accredited Water Servicing Co-ordinator Design Project Management - Building Plan Approvals</p> <p>SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.</p>	<p>TITLE</p> <p>SEDIMENT AND EROSION CONTROL PLAN</p> <table border="1"> <tr> <td>SCALE</td> <td>DRAWN</td> <td>DESIGNED</td> <td>CHECKED</td> <td>APPROVED</td> </tr> <tr> <td>AS SHOWN</td> <td>M.C.Z.</td> <td>N.M.</td> <td>N.M.</td> <td>M.C.</td> </tr> <tr> <td>JOB No.</td> <td colspan="2">DRAWING No.</td> <td colspan="2">ISSUE</td> </tr> <tr> <td>5936000</td> <td colspan="2">C2.01</td> <td colspan="2">3</td> </tr> <tr> <td>DATE</td> <td colspan="4">STATUS</td> </tr> <tr> <td>02/10/18</td> <td colspan="4">DEVELOPMENT APPLICATION</td> </tr> </table>	SCALE	DRAWN	DESIGNED	CHECKED	APPROVED	AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.	JOB No.	DRAWING No.		ISSUE		5936000	C2.01		3		DATE	STATUS				02/10/18	DEVELOPMENT APPLICATION			
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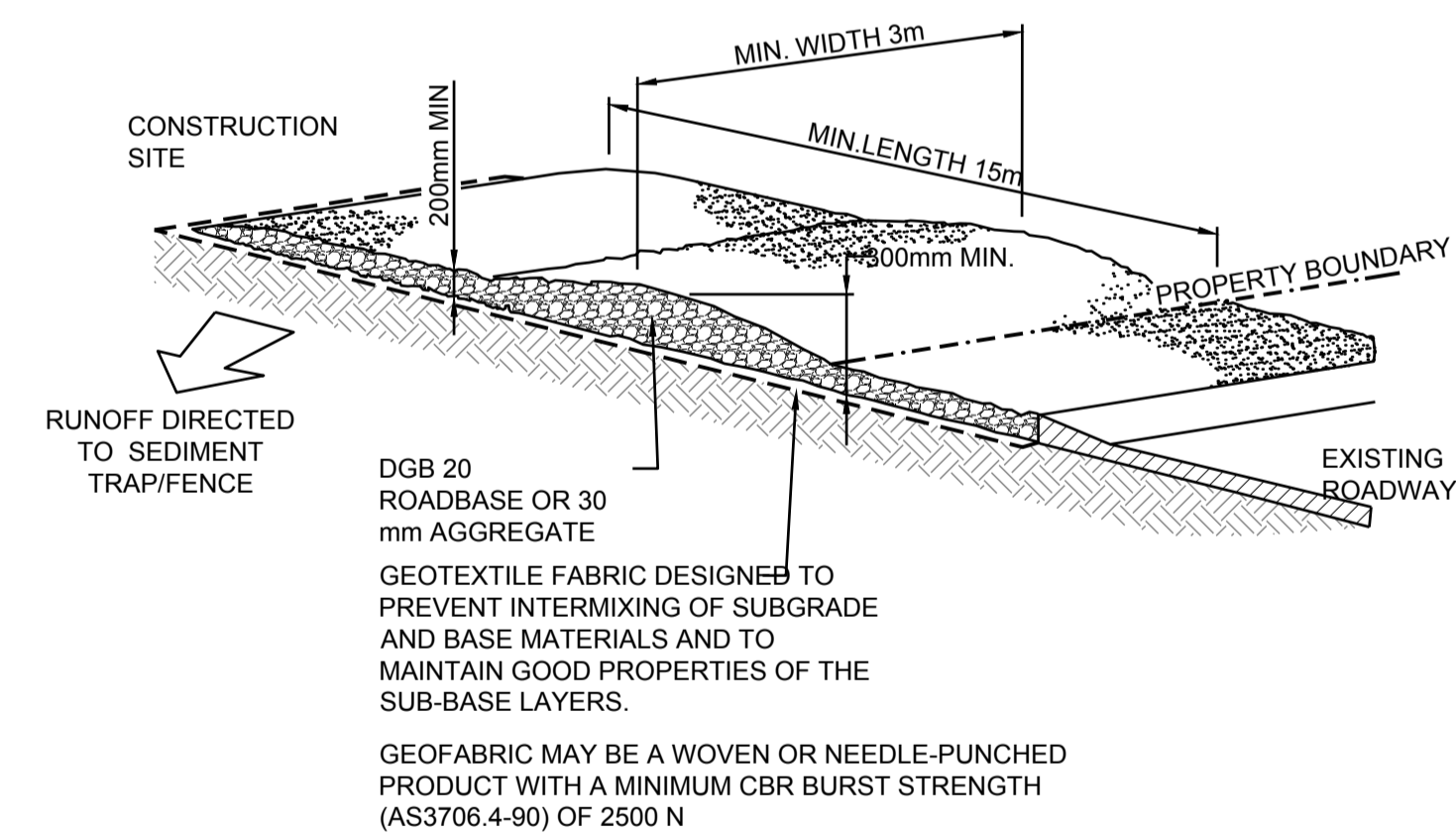


CONSTRUCTION NOTES:

1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE
4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2m STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
5. WHERE STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1.0m TO 2.0m DOWNSLOPE FROM THE TOE.
6. ESTABLISH A MAINTENANCE PROGRAMME THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

STRAW BALE FILTER DETAIL

NOT TO SCALE

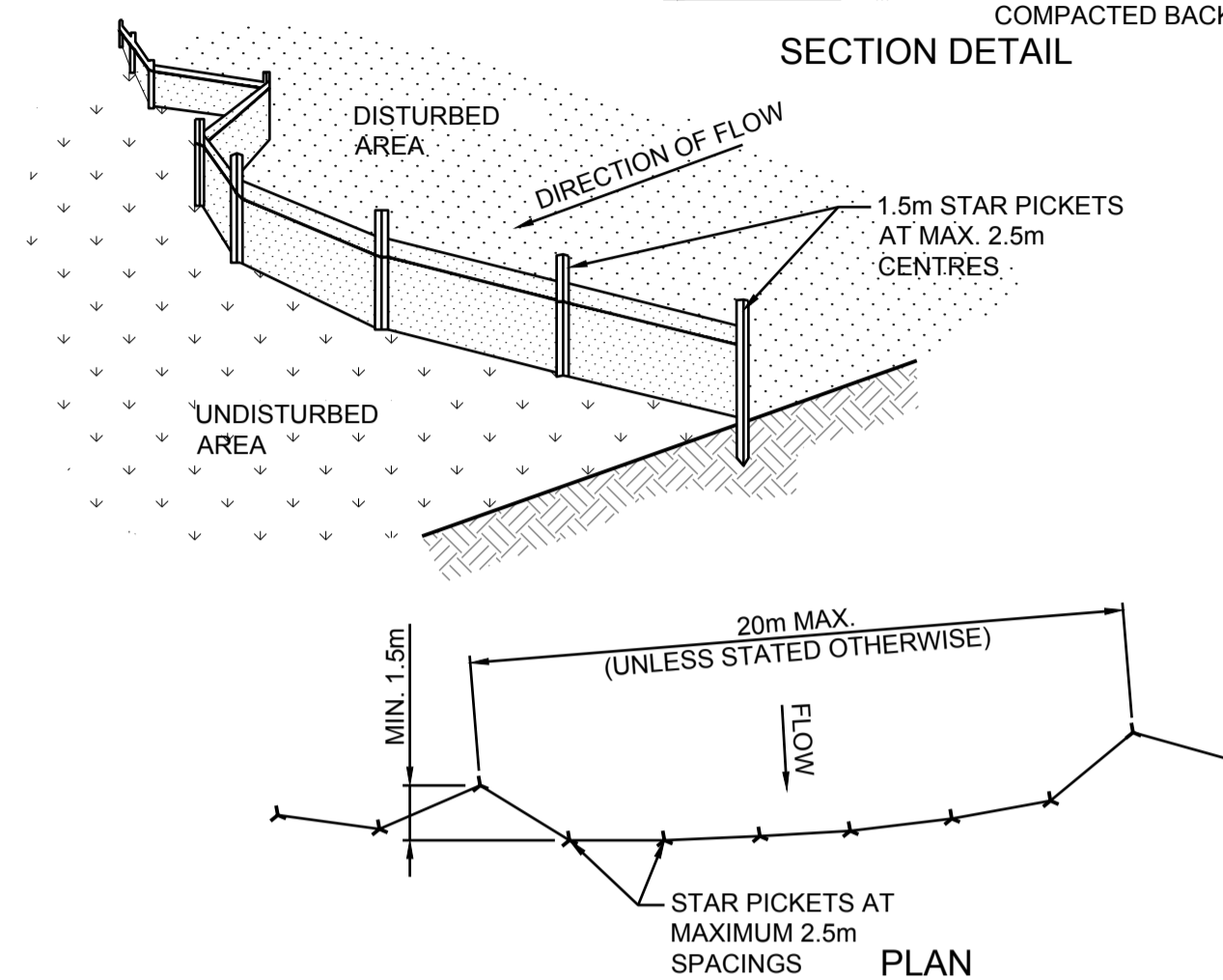
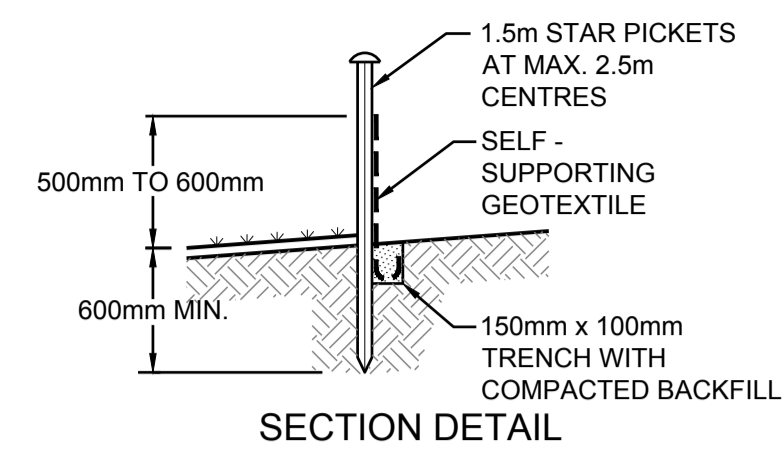


CONSTRUCTION NOTES:

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS DETAIL

NOT TO SCALE

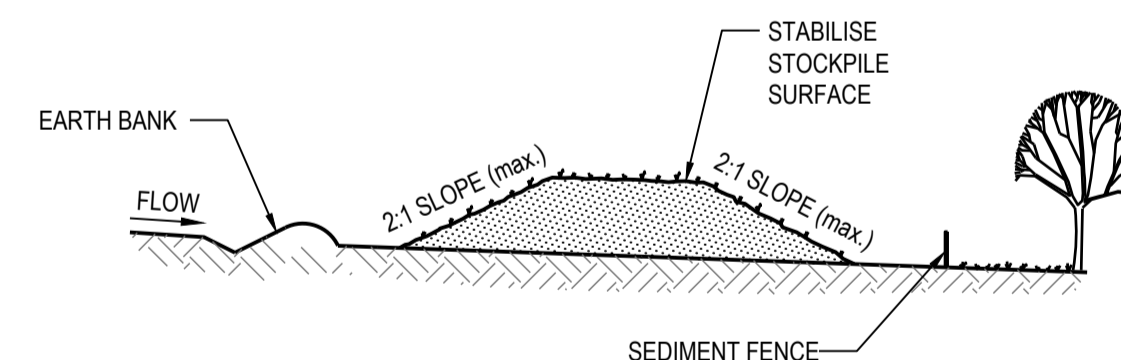


CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO THE GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150-mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE DETAIL

NOT TO SCALE

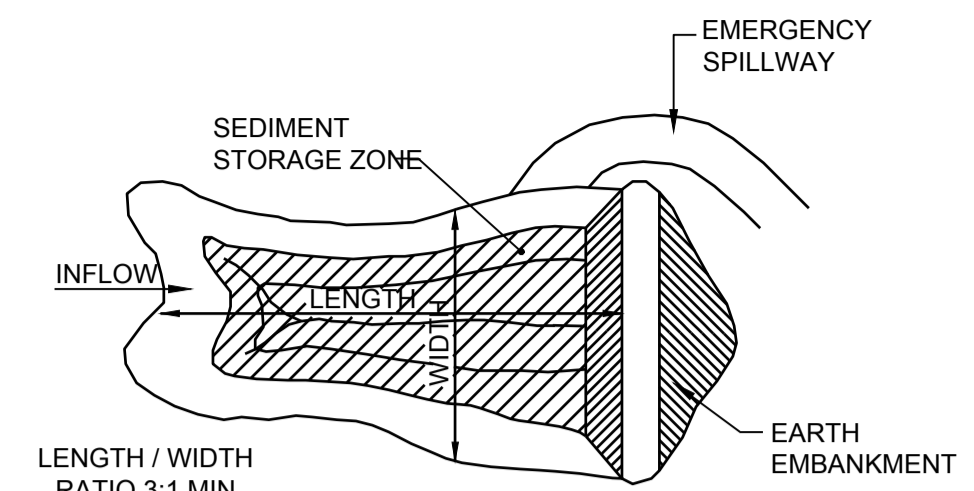


NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT. 4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.

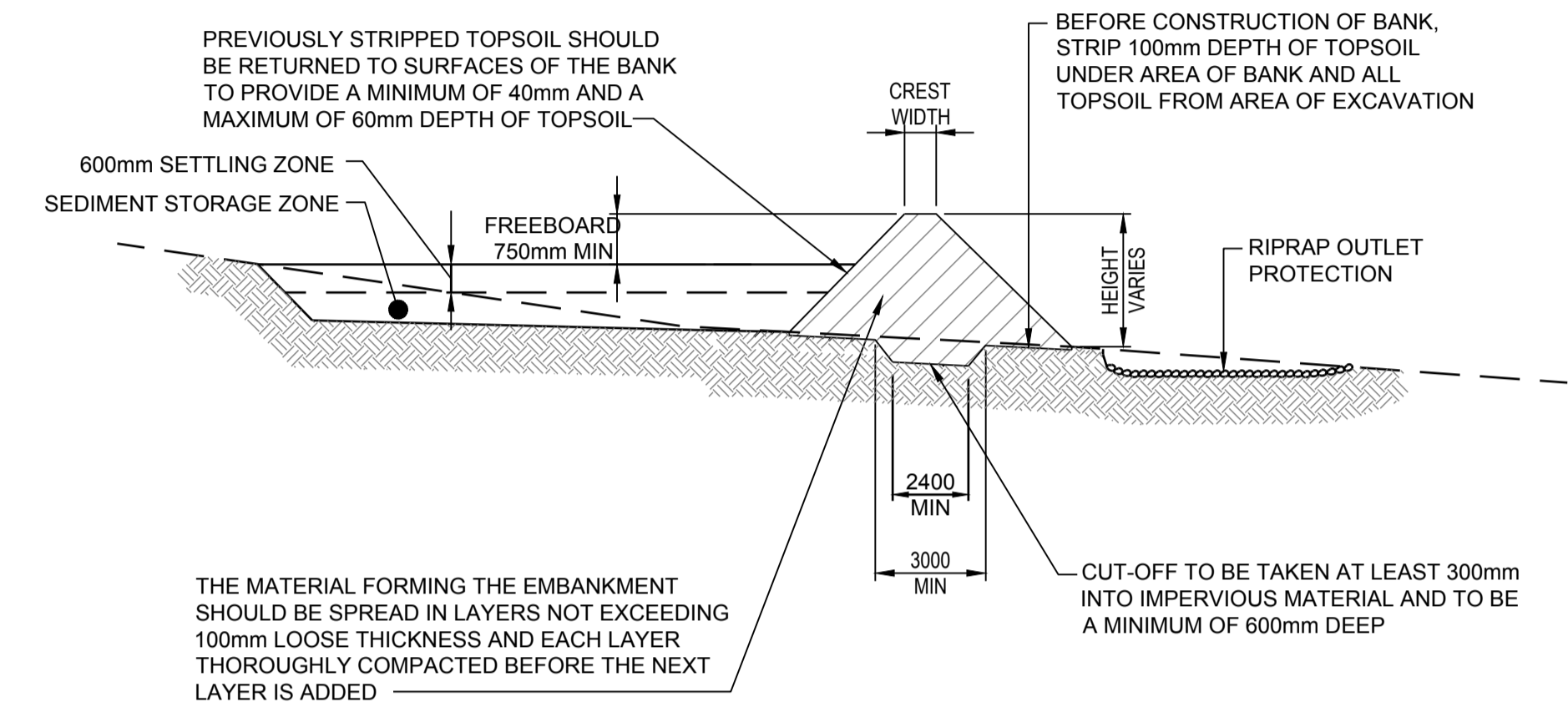
STOCKPILE

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

CONSTRUCTION NOTES

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95% STANDARD PROCTOR DENSITY.
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO SUBSTRATE.
6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. CONSTRUCT THE EMERGENCY SPILLWAY.
8. REHABILITATE THE STRUCTURE FOLLOWING SWMP.

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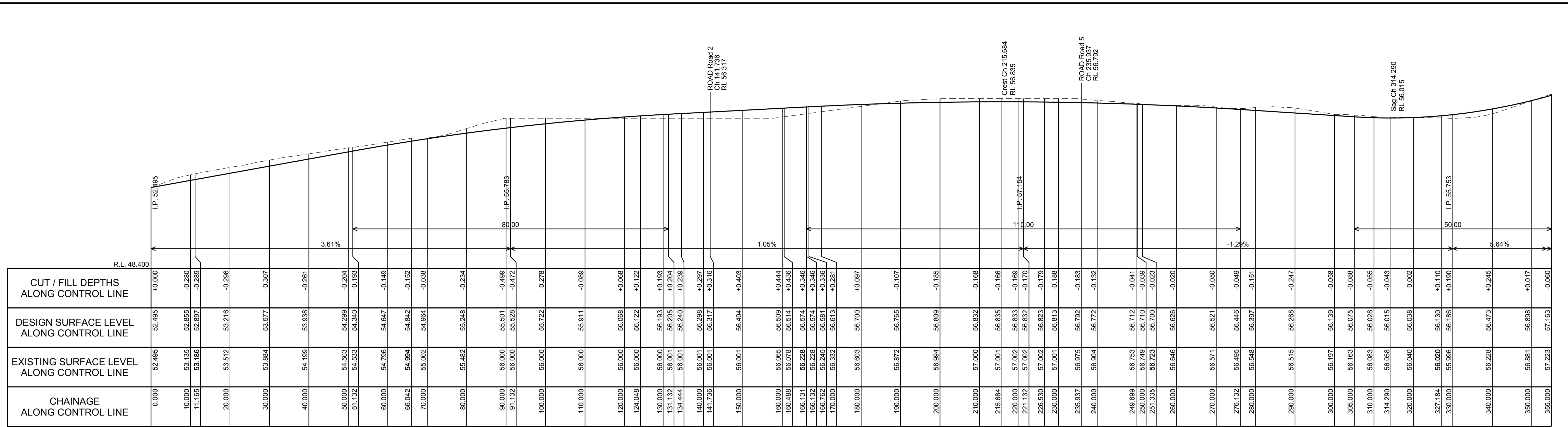
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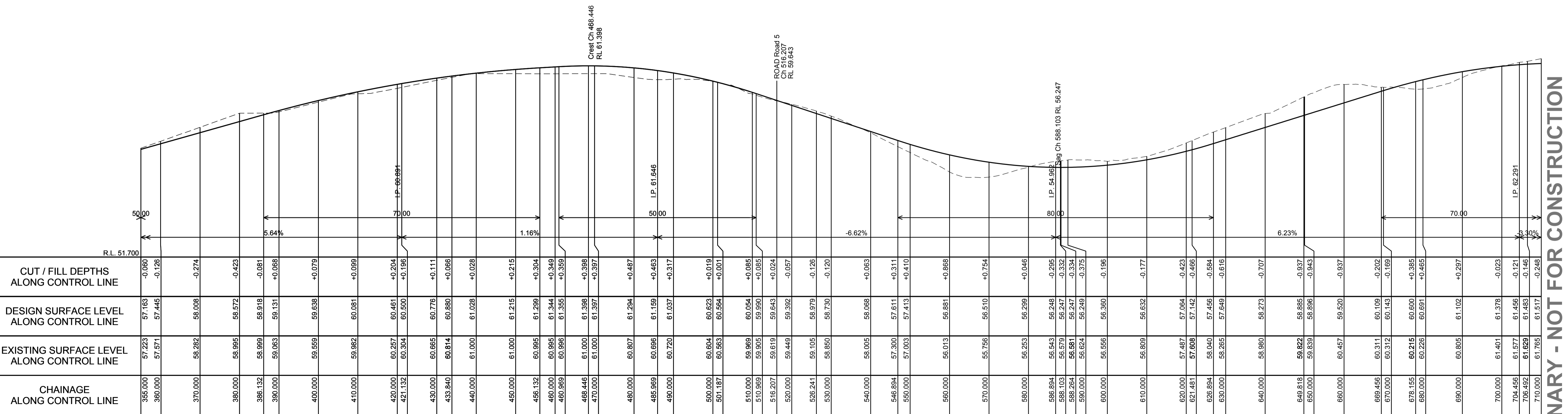
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JOB No. 5936000	DRAWING No. C2.02		ISSUE 3	
DATE 02/10/18	STATUS DEVELOPMENT APPLICATION			

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LONGITUDINAL SECTION ALONG ROAD 1

SCALE H 1:500 V 1:100

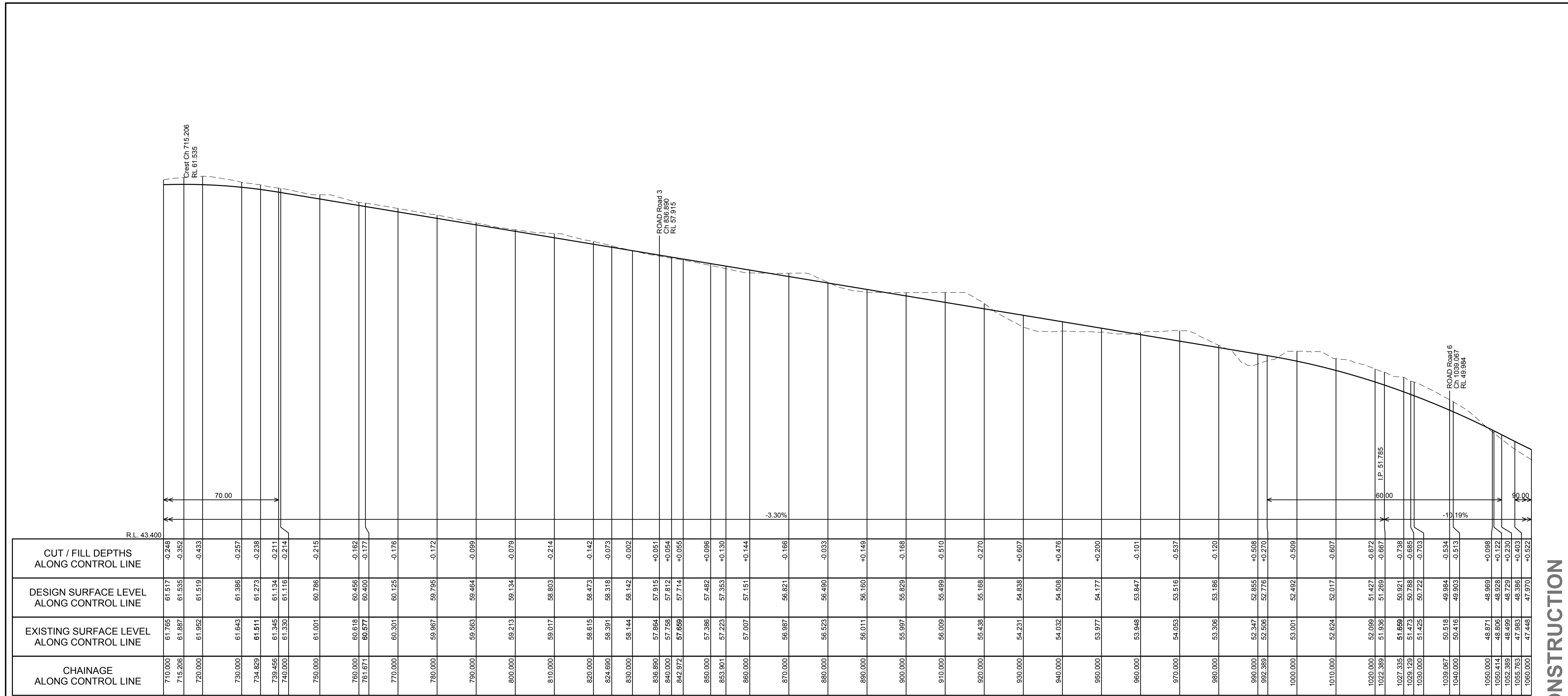


LONGITUDINAL SECTION ALONG ROAD 1

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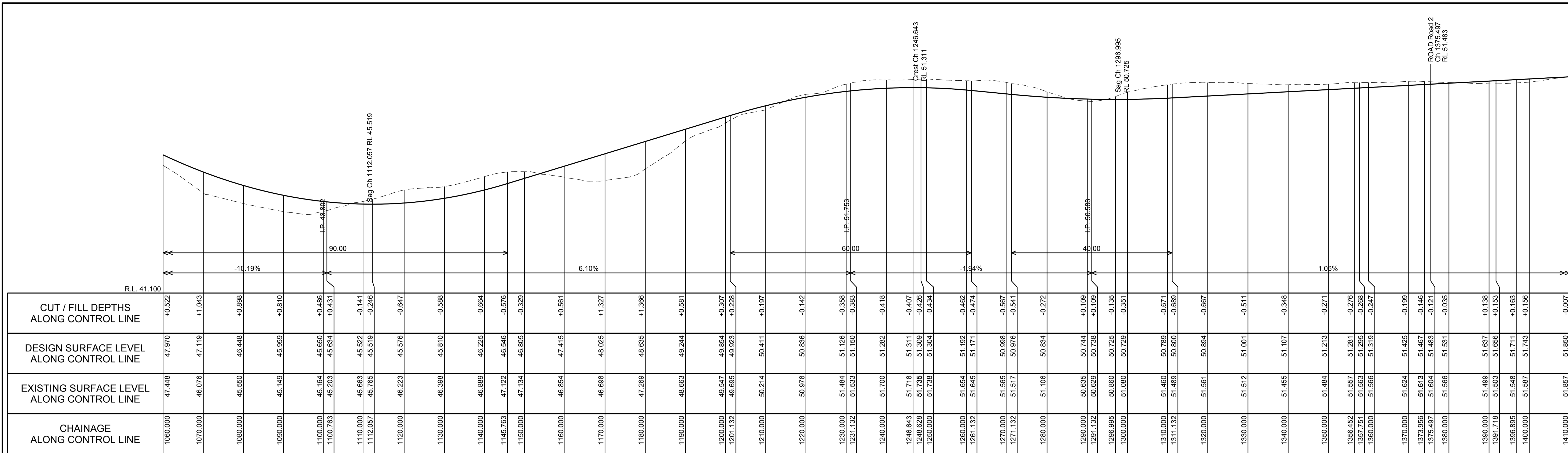


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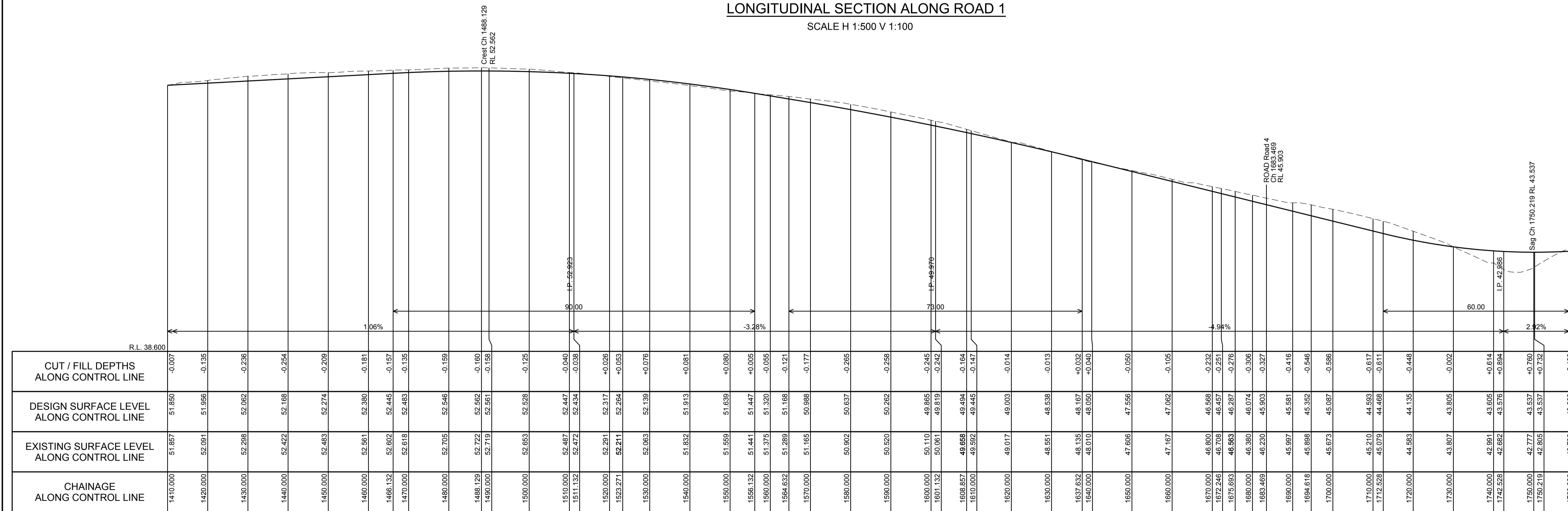
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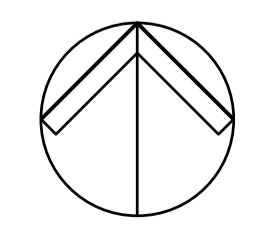
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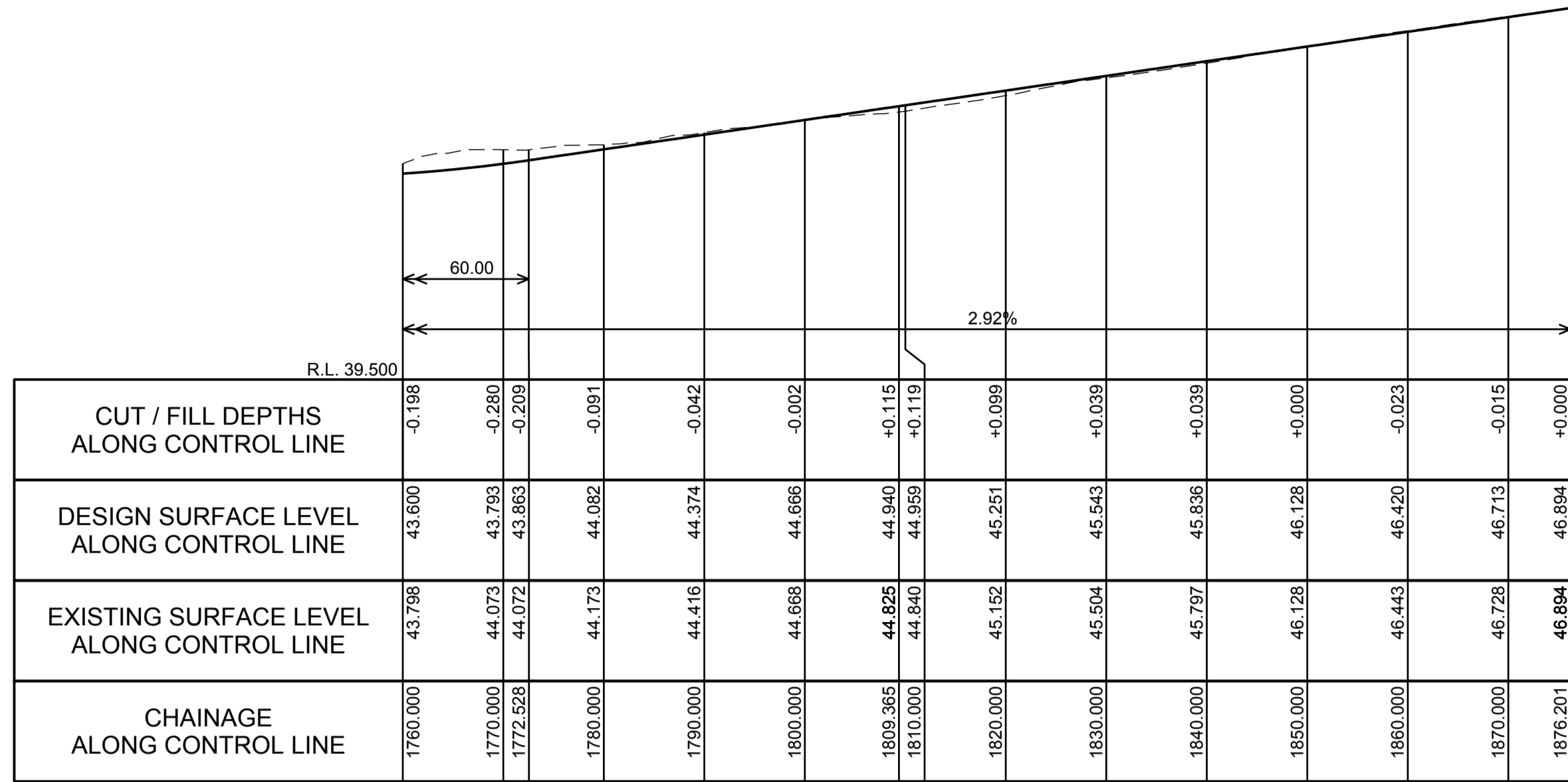
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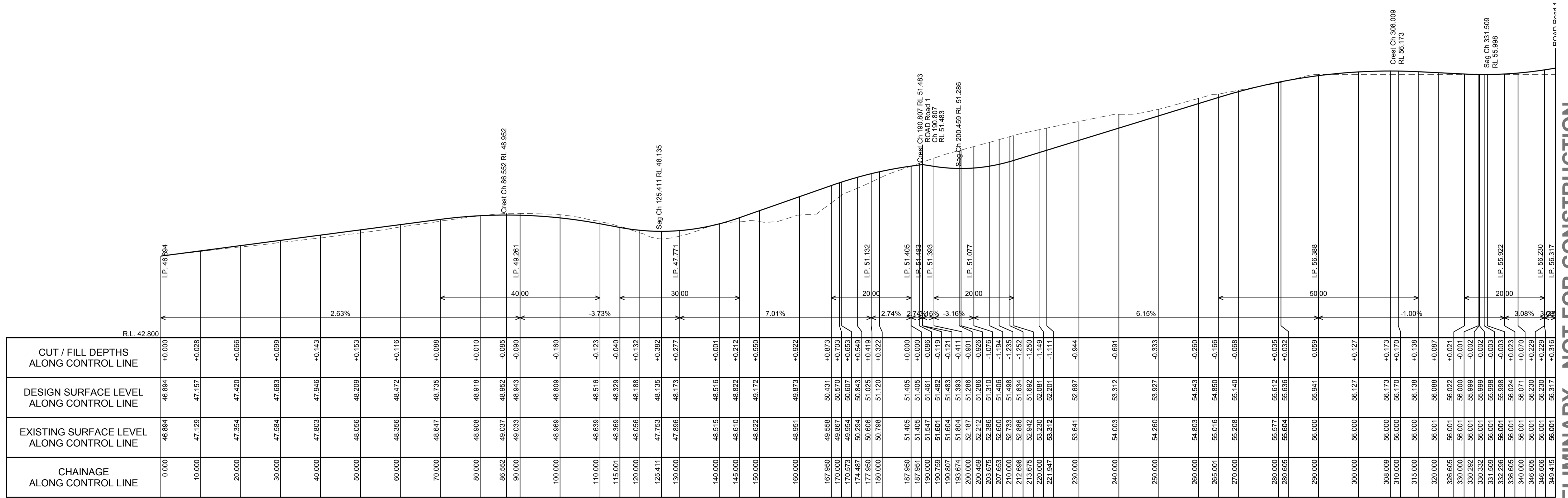
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LONGITUDINAL SECTION ALONG ROAD 1

SCALE H 1:500 V 1:100

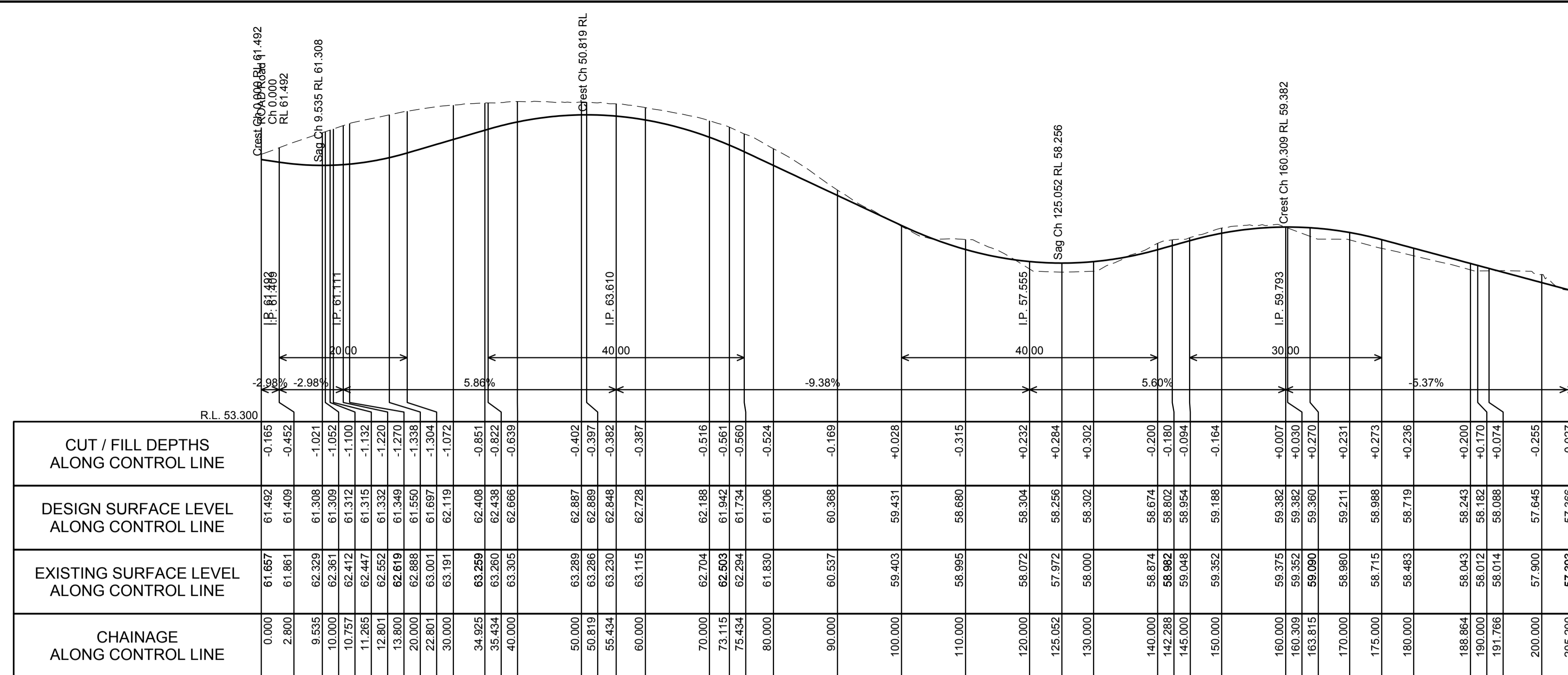


LONGITUDINAL SECTION ALONG ROAD 2

SCALE H 1:500 V 1:100

PRELIMINARY - NOT FOR CONSTRUCTION

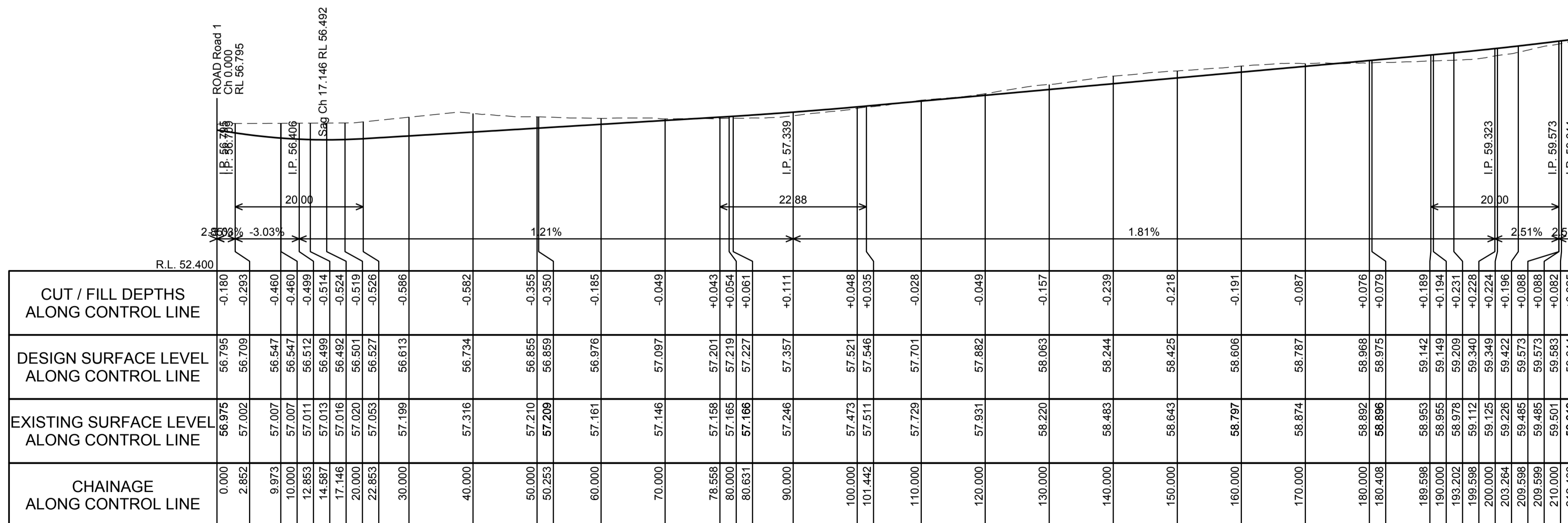
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			JOB No. 5936000		DRAWING No. C5.04				ISSUE 3		DATE 02/10/18	STATUS DEVELOPMENT APPLICATION		



LONGITUDINAL SECTION ALONG ROAD 3
SCALE H 1:500 V 1:100

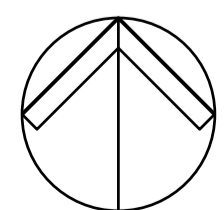


LONGITUDINAL SECTION ALONG ROAD 4
SCALE H 1:500 V 1:100

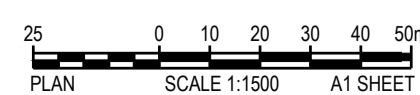


LONGITUDINAL SECTION ALONG ROAD 5
SCALE H 1:500 V 1:100

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03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18			

CLIENT
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Care, Compassion, Choice

PROJECT
WALLACIA GOLF COURSE

Warren Smith & Partners
Warren Smith & Partners Pty Ltd
181 Fovea, 123 Clarence Street, Sydney 2000 NSW Australia
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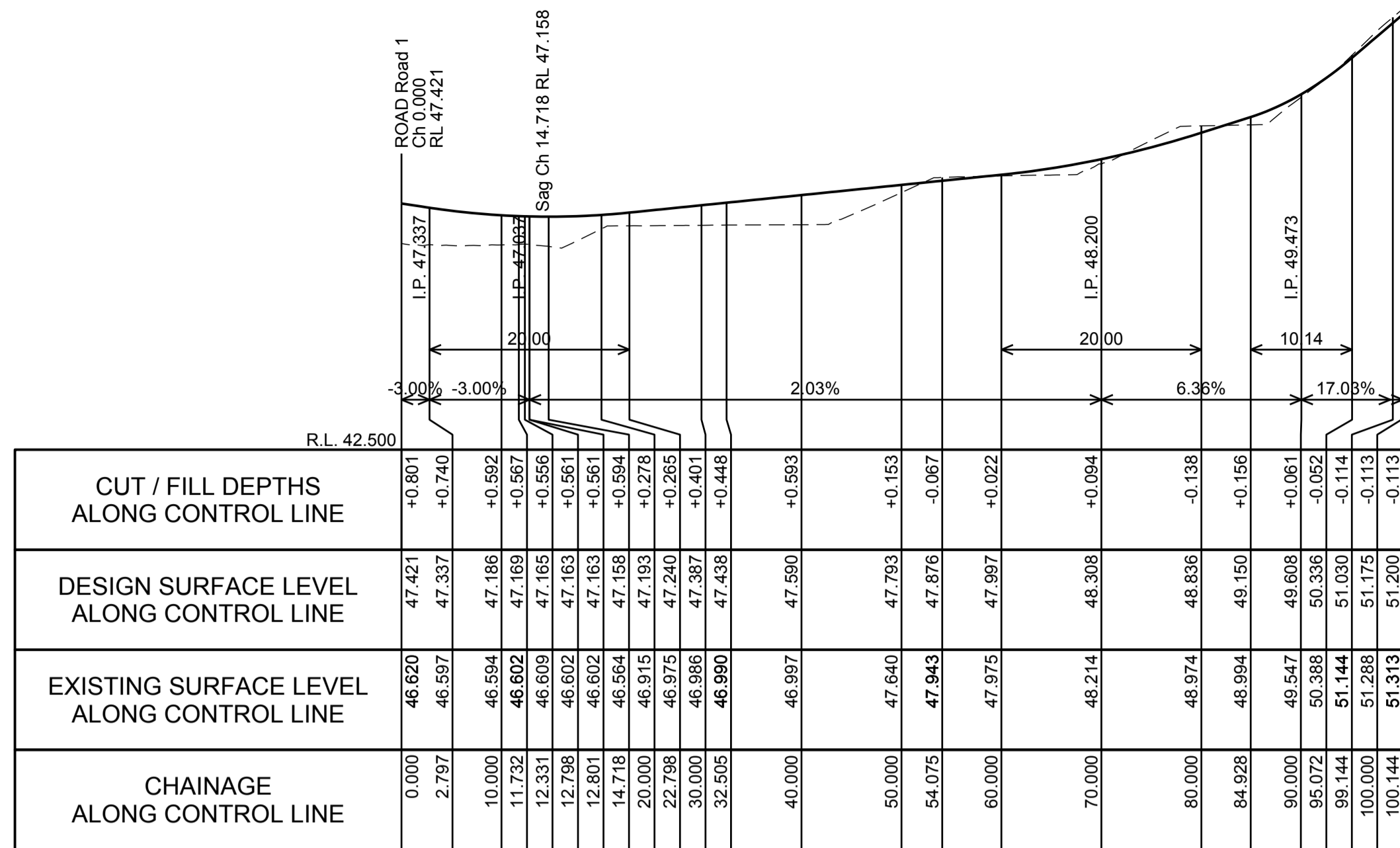
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TITLE
ROAD LONGITUDINAL SECTIONS SHEET 5 - ROADS 3 AND 5

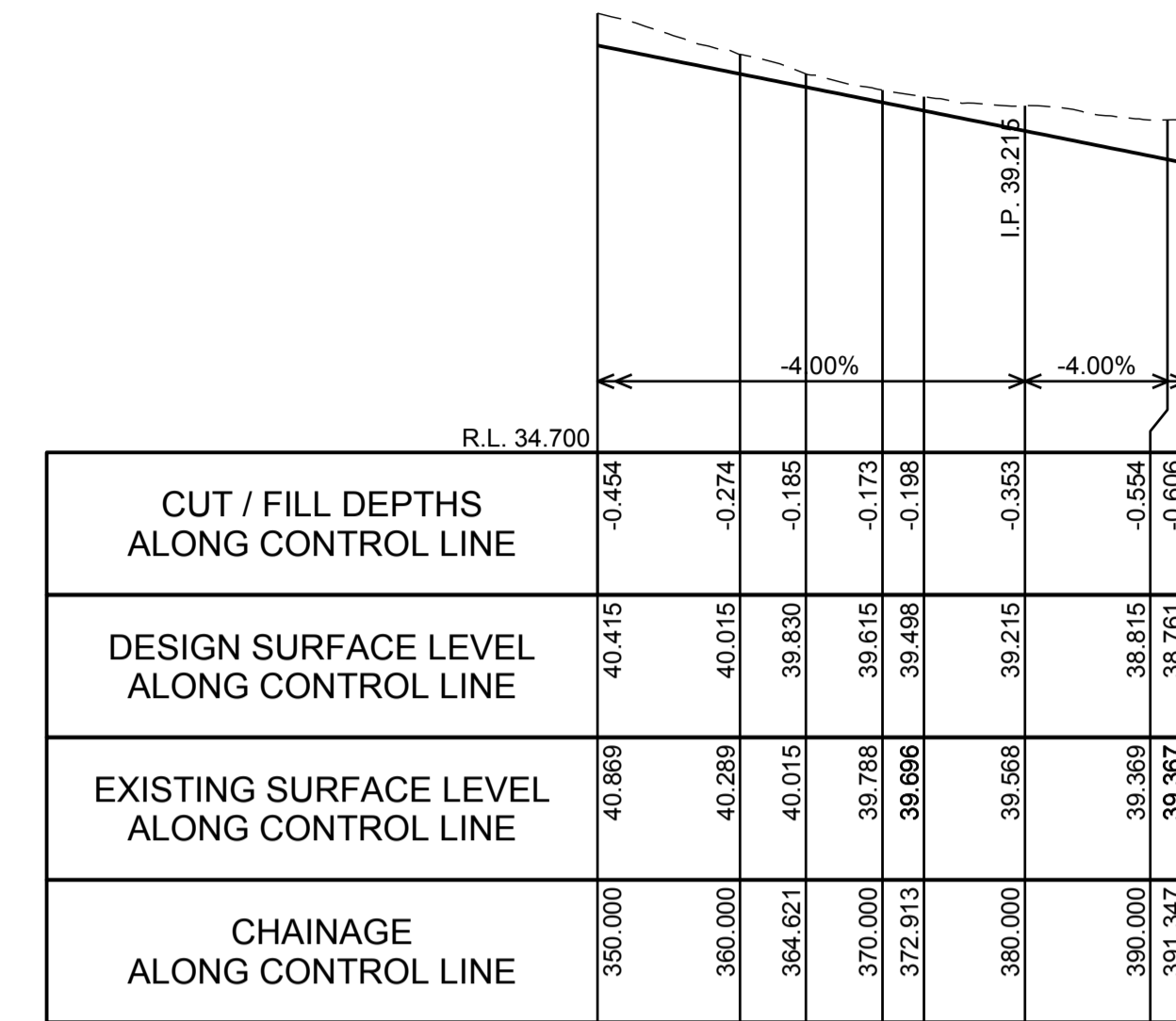
SCALE AS SHOWN	DRAWN M.C.Z.	DESIGNED N.M.	CHECKED N.M.	APPROVED M.C.
JOB No. 5936000	DRAWING No. C5.05	ISSUE 3		
DATE 02/10/18	STATUS DEVELOPMENT APPLICATION			

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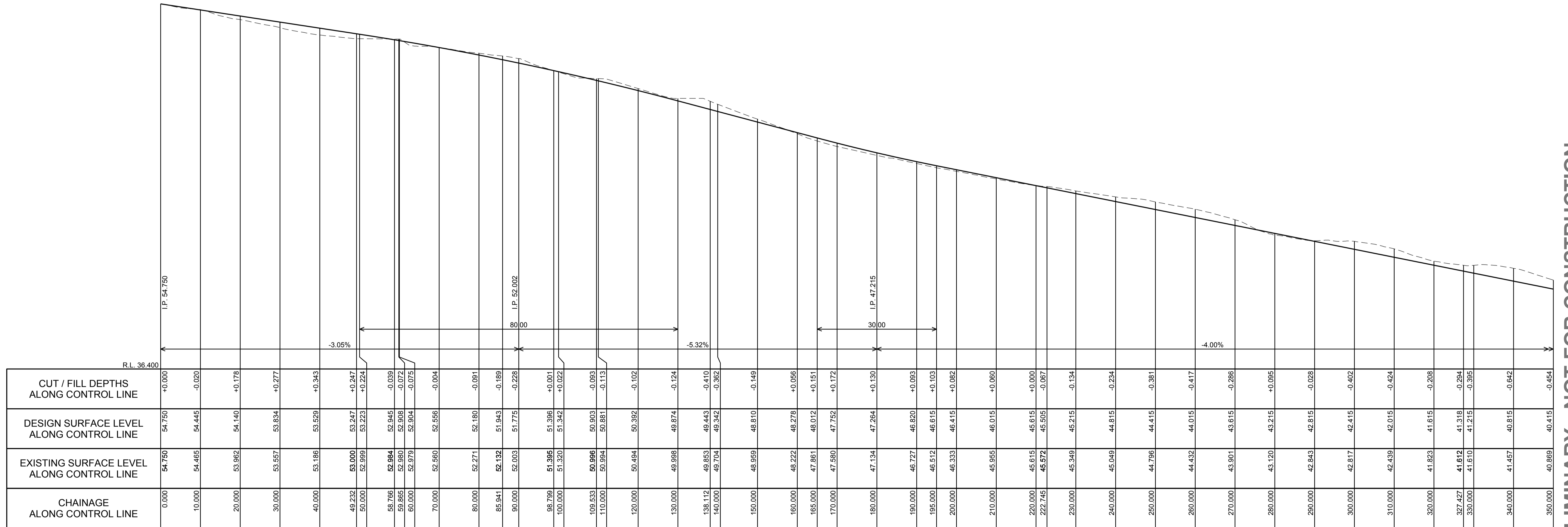
LONGITUDINAL SECTION ALONG ROAD 6

SCALE H 1:500 V 1:100



LONGITUDINAL SECTION ALONG ROAD 7

SCALE H 1:500 V 1:100



LONGITUDINAL SECTION ALONG ROAD 7

SCALE H 1:500 V 1:100

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SCALE 1:1500 AT SHEET

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03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18

REVISION	AMENDMENT	DATE

CLIENT

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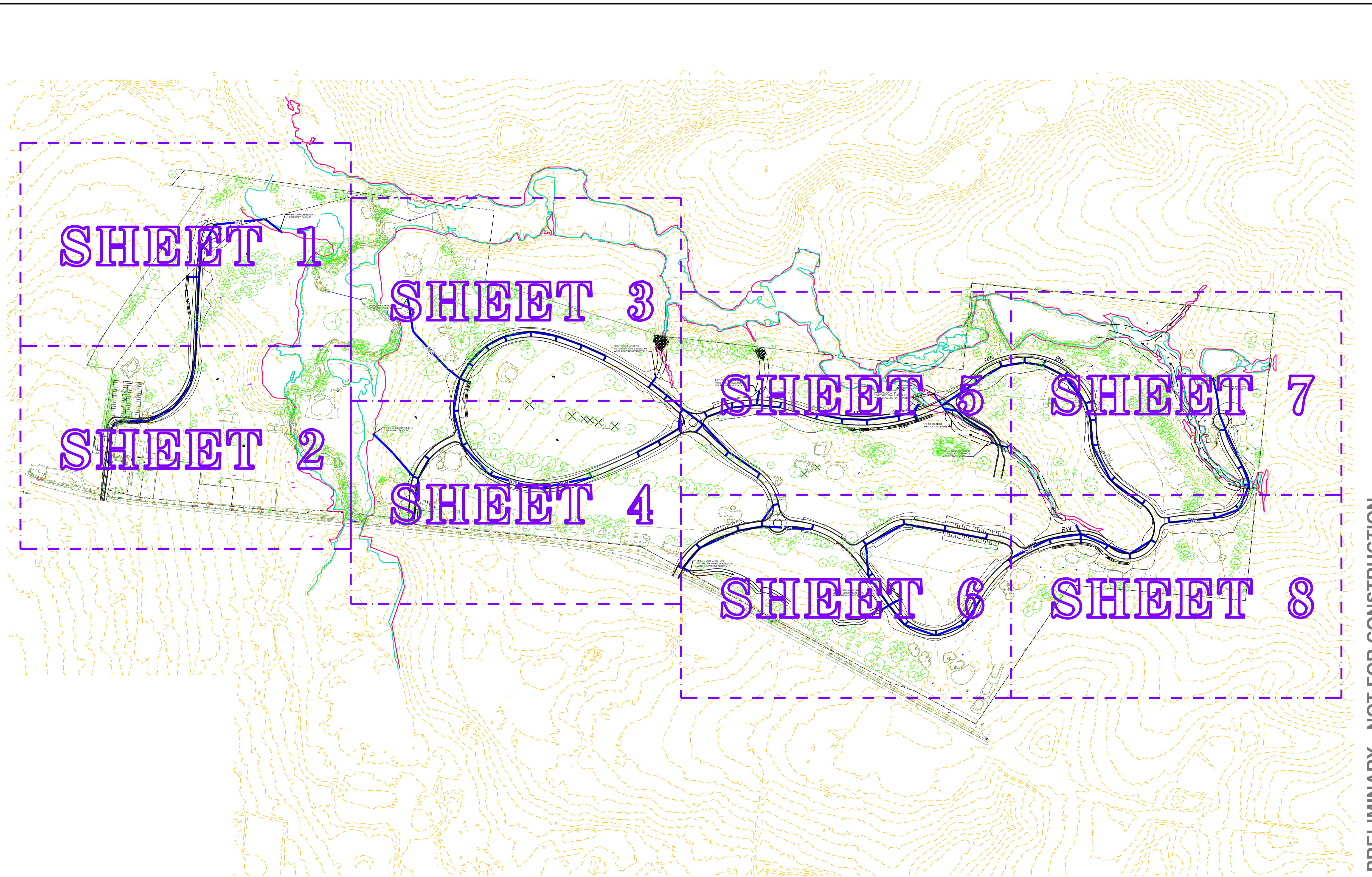
TITLE

ROAD LONGITUDINAL SECTIONS SHEET 6 - ROADS 6 AND 7

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.

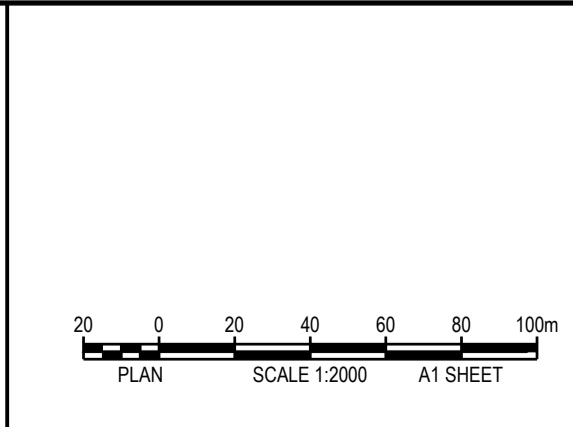
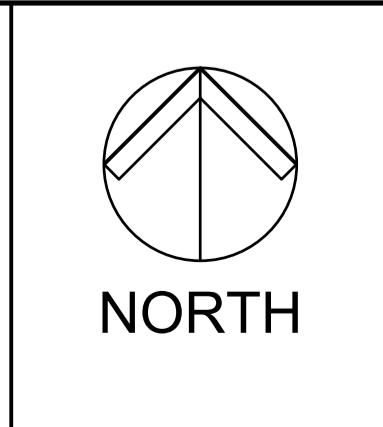
JOB No. **5936000** DRAWING No. **C5.06** ISSUE **3**

DATE 02/10/18 STATUS DEVELOPMENT APPLICATION



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03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18			

CLIENT		 Catholic Cemeteries & Crematoria <i>Care, Compassion, Choice</i>
PROJECT		
WALLACIA GOLF COURSE		

Warren Smith & Partners
 Consulting Engineers











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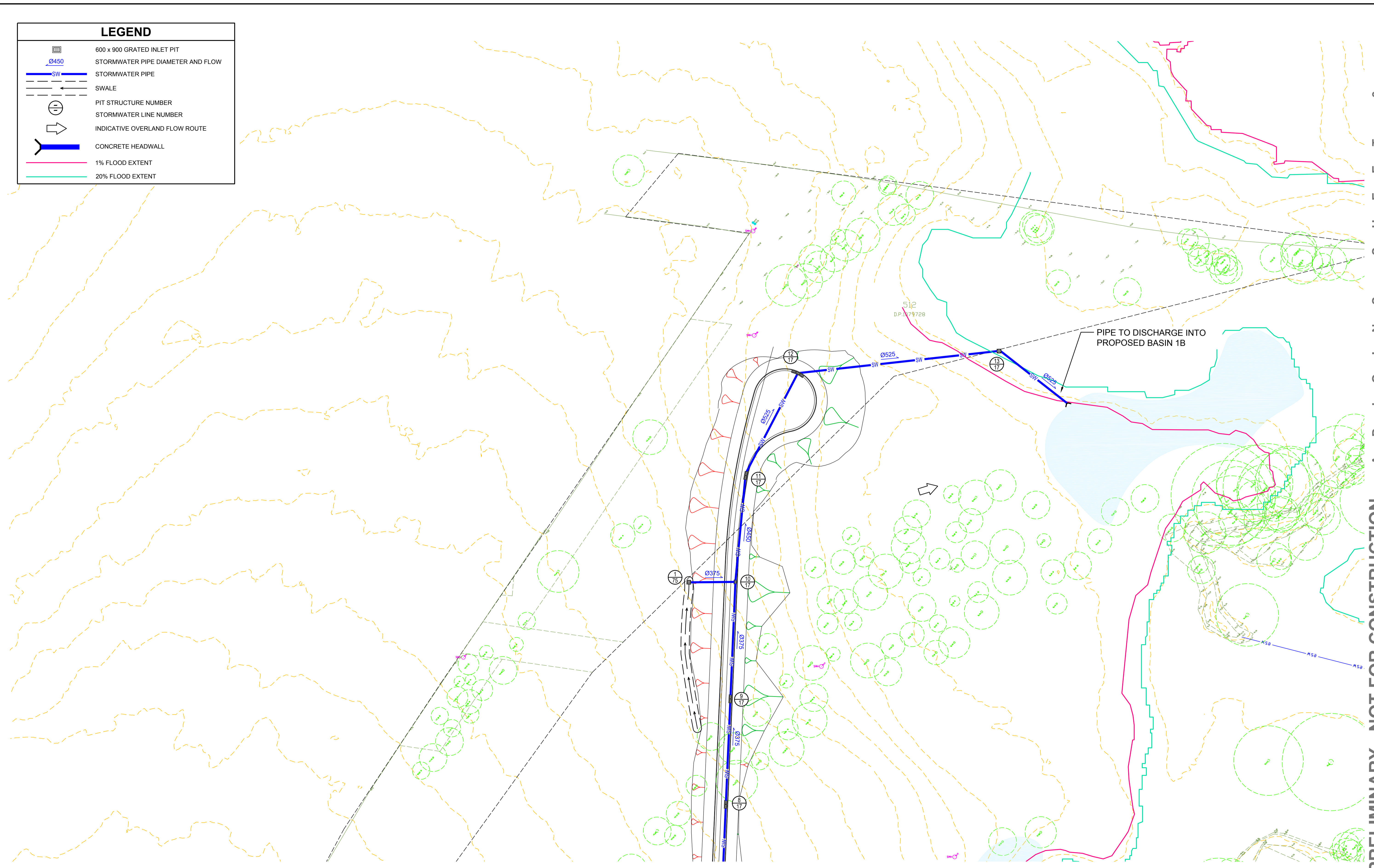
SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

TITLE				
STORMWATER KEY PLAN				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.
JOB No.	DRAWING No.		ISSUE	
5936000	C6.01		3	
DATE	STATUS			
02/10/18	DEVELOPMENT APPLICATION			

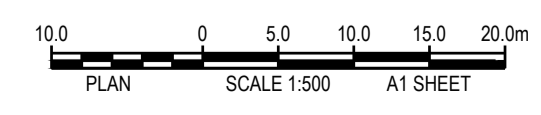
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

LEGEND

-  600 x 900 GRATED INLET PIT
-  STORMWATER PIPE DIAMETER AND FLOW
-  STORMWATER PIPE
-  SWALE
-  PIT STRUCTURE NUMBER
-  STORMWATER LINE NUMBER
-  INDICATIVE OVERLAND FLOW ROUTE
-  CONCRETE HEADWALL
-  1% FLOOD EXTENT
-  20% FLOOD EXTENT



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CLIENT
Catholic Cemeteries & Crematoria
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PROJECT
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








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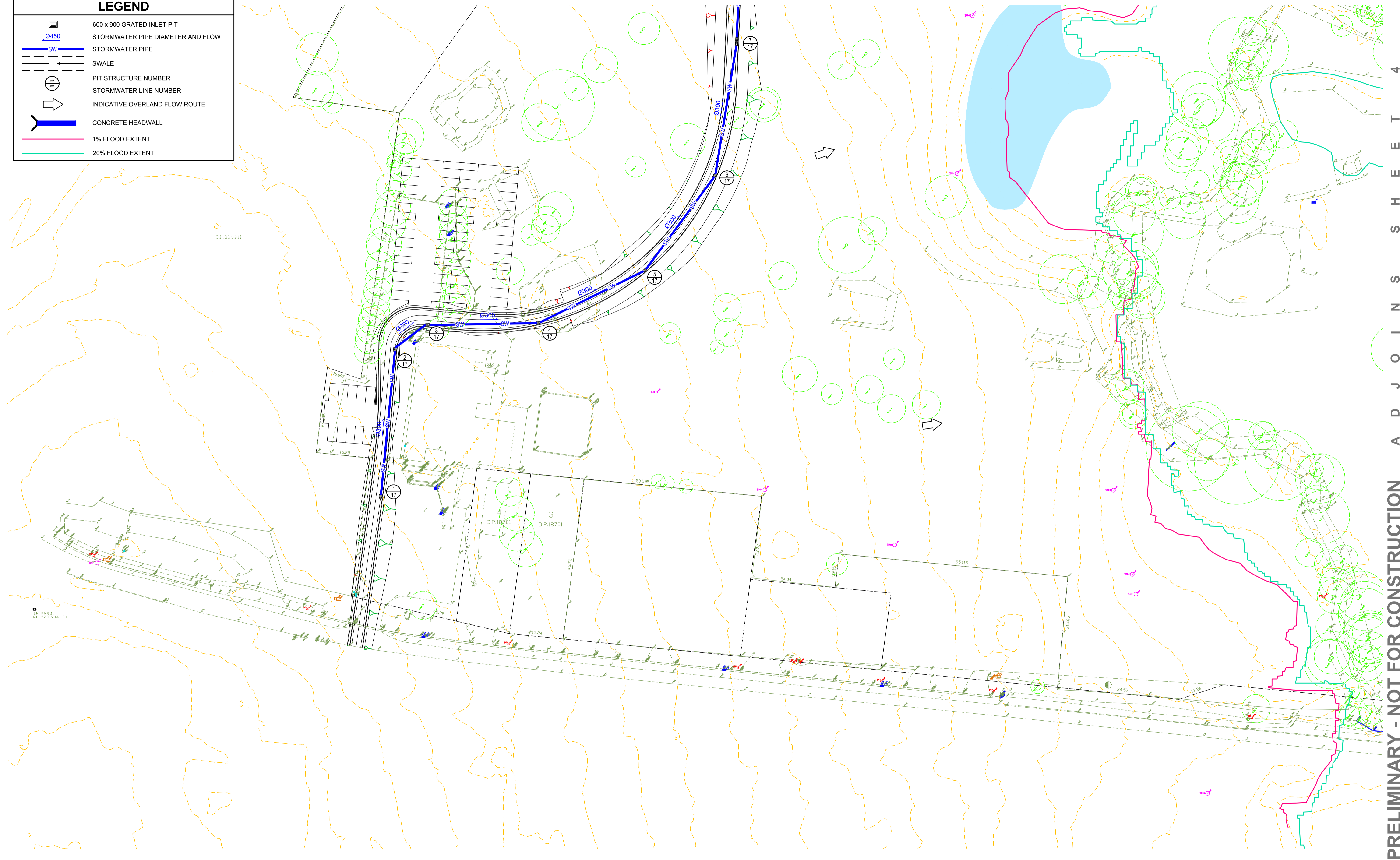
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 ■ Hydraulic Services ■ Fire Protection ■ Civil Engineering
 ■ Sydney Water Accredited Water Servicing Co-ordinator
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SERVING THE CONSTRUCTION INDUSTRY SINCE 1981.

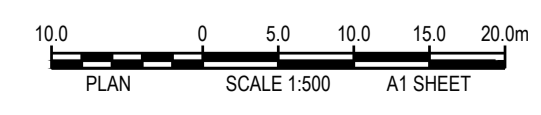
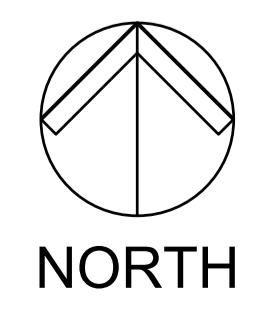
TITLE STORMWATER LAYOUT PLAN				
SHEET 1 OF 8				
SCALE AS SHOWN	DRAWN J.W.	DESIGNED J.W.	CHECKED N.M.	APPROVED M.C.
JOB No. 5936000	DRAWING No. C6.02		ISSUE 3	
DATE 02/10/18	STATUS DEVELOPMENT APPLICATION			

LEGEND

-  600 x 900 GRATED INLET PIT
-  STORMWATER PIPE DIAMETER AND FLOW
-  STORMWATER PIPE
-  SWALE
-  PIT STRUCTURE NUMBER
-  STORMWATER LINE NUMBER
-  INDICATIVE OVERLAND FLOW ROUTE
-  CONCRETE HEADWALL
-  1% FLOOD EXTENT
-  20% FLOOD EXTENT



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CLIENT  Catholic Cemeteries & Crematoria
Care, Compassion, Choice

PROJECT
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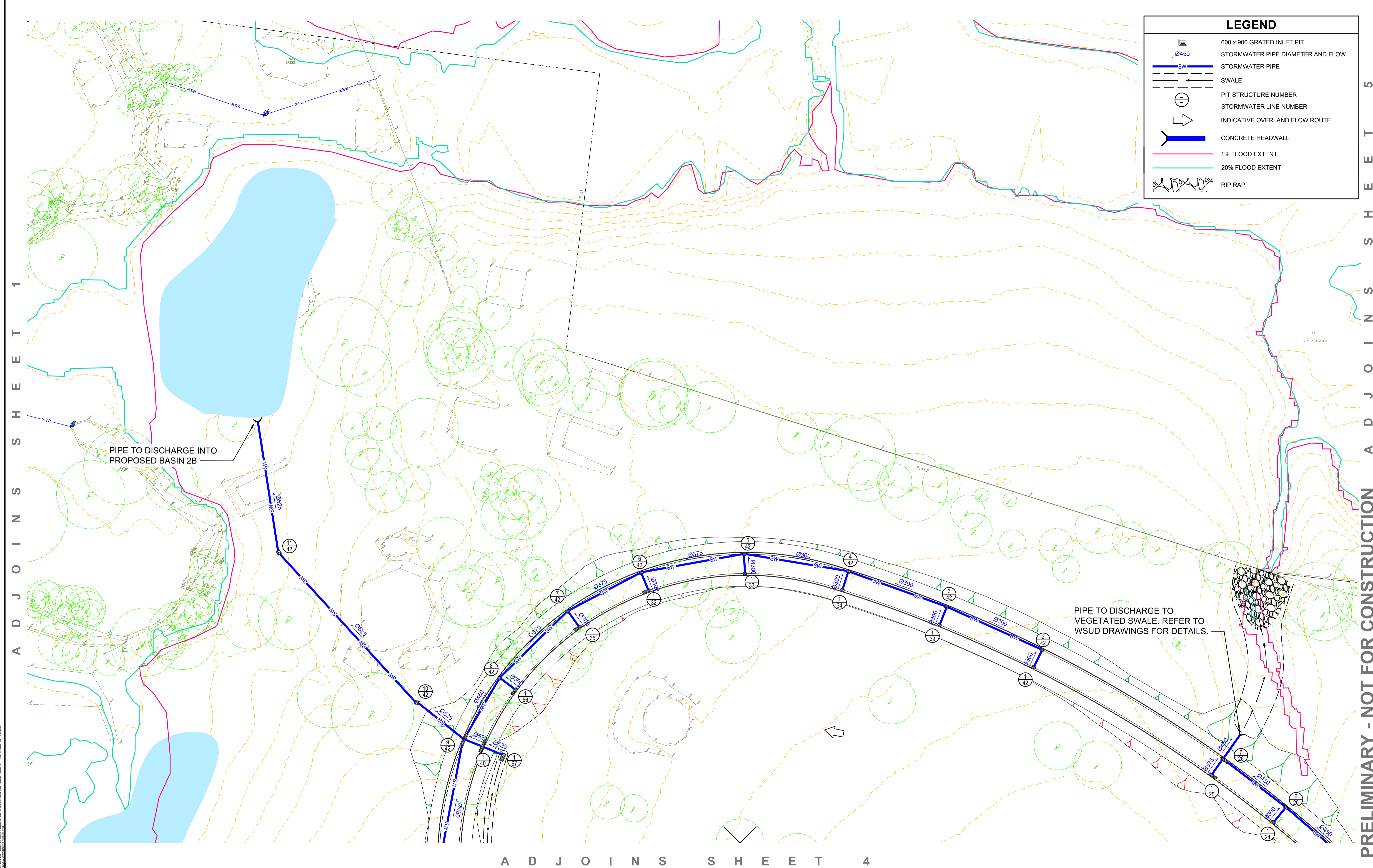
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TITLE
STORMWATER LAYOUT PLAN
SHEET 2 OF 8

SCALE AS SHOWN	DRAWN M.C.Z.	DESIGNED N.M.	CHECKED N.M.	APPROVED M.C.
JOB No. 5936000	DRAWING No. C6.03	ISSUE 3		
DATE 02/10/18	STATUS DEVELOPMENT APPLICATION			



LEGEND	
	600 x 900 GRATED INLET PIT
	STORMWATER PIPE DIAMETER AND FLOW
	STORMWATER PIPE
	SWALE
	PIT STRUCTURE NUMBER
	STORMWATER LINE NUMBER
	INDICATIVE OVERLAND FLOW ROUTE
	CONCRETE HEADWALL
	1% FLOOD EXTENT
	20% FLOOD EXTENT
	RIP RAP

A D J O I N S S H E E T 1

A D J O I N S S H E E T 5

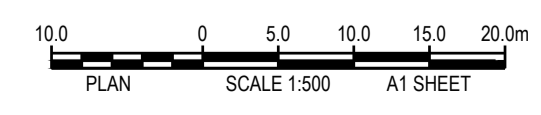
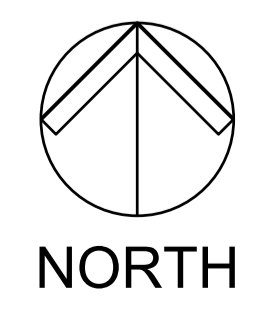
A D J O I N S S H E E T 4

PIPE TO DISCHARGE INTO PROPOSED BASIN 2B

PIPE TO DISCHARGE TO VEGETATED SWALE. REFER TO WSUD DRAWINGS FOR DETAILS.

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03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18			

REVISION	AMENDMENT	DATE

CLIENT
 Catholic Cemeteries & Crematoria
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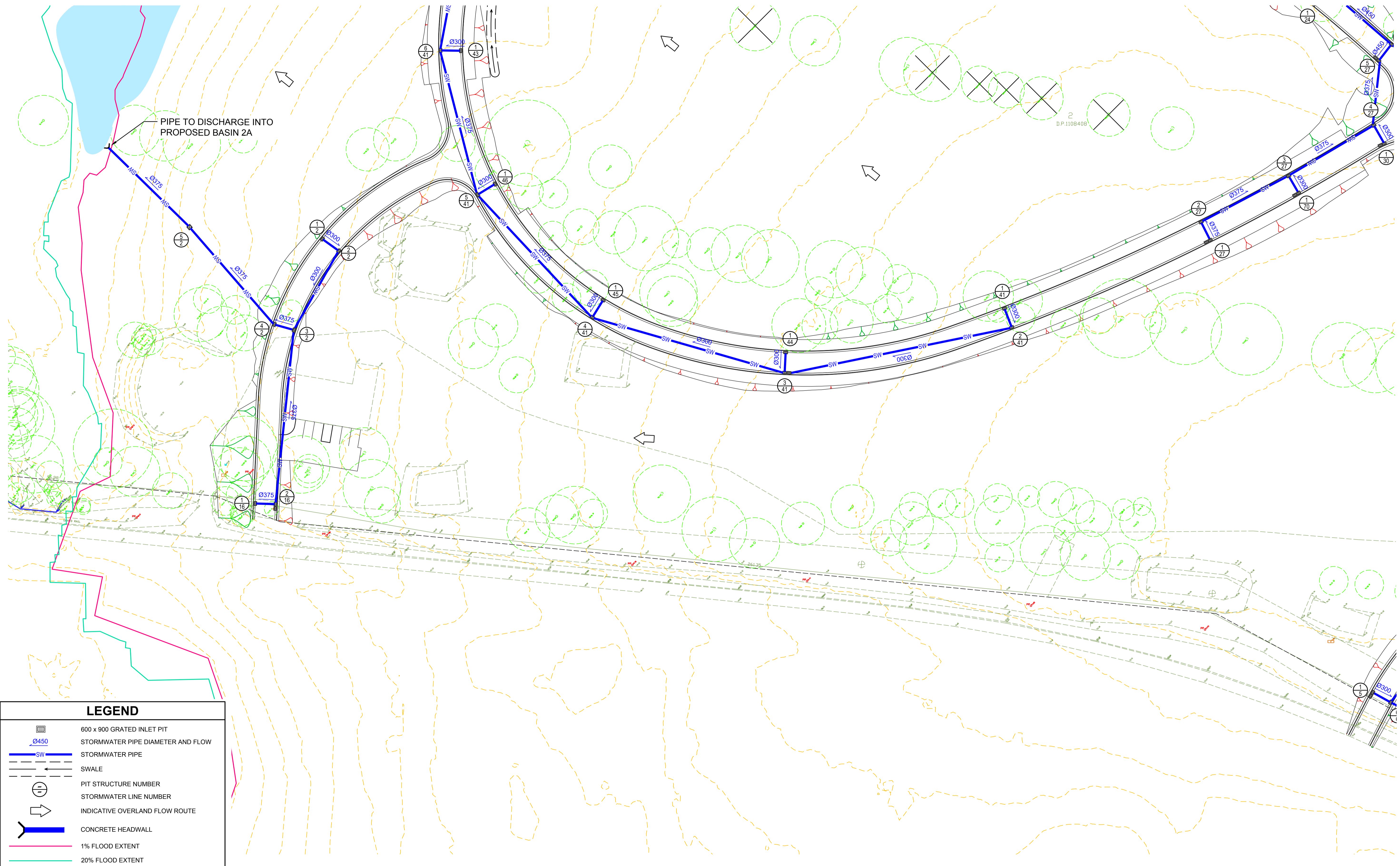
PROJECT
WALLACIA GOLF COURSE

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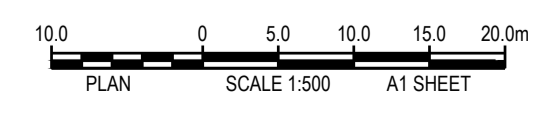
TITLE				
STORMWATER PIPE LAYOUT PLAN				
SHEET 3 OF 8				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.
JOB No.	DRAWING No.	ISSUE		
5936000	C6.04	3		
DATE	STATUS			
02/10/18	DEVELOPMENT APPLICATION			



LEGEND

- 600 x 900 GRATED INLET PIT
- STORMWATER PIPE DIAMETER AND FLOW
- STORMWATER PIPE
- SWALE
- PIT STRUCTURE NUMBER
- STORMWATER LINE NUMBER
- INDICATIVE OVERLAND FLOW ROUTE
- CONCRETE HEADWALL
- 1% FLOOD EXTENT
- 20% FLOOD EXTENT

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







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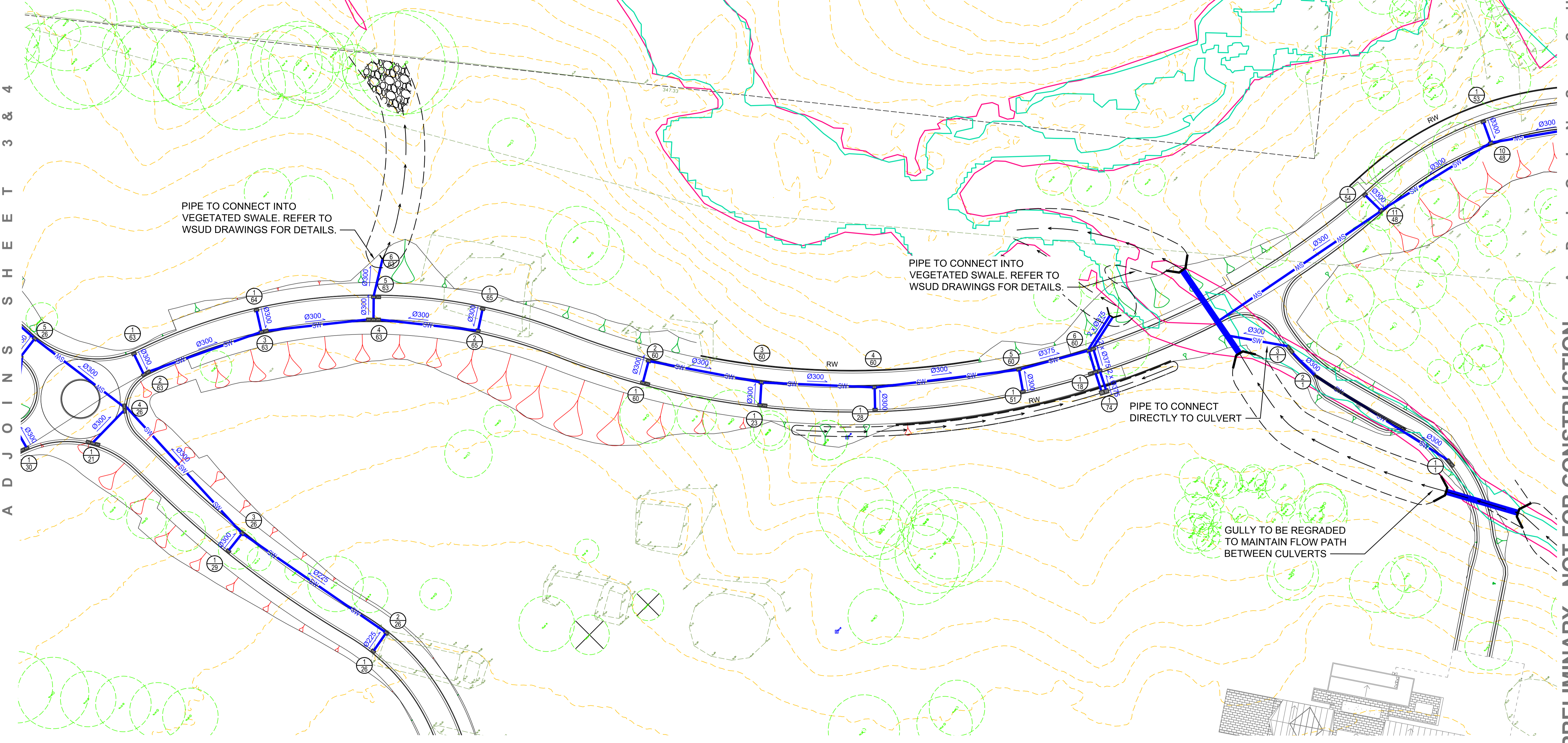
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TITLE
STORMWATER LAYOUT PLAN
SHEET 4 OF 8

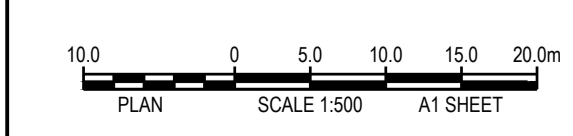
SCALE AS SHOWN	DRAWN J.W.	DESIGNED J.W.	CHECKED N.M.	APPROVED M.C.
JOB No. 5936000	DRAWING No. C6.05		ISSUE 3	
DATE 02/10/18	STATUS DEVELOPMENT APPLICATION			

LEGEND


-  600 x 900 GRATED INLET PIT
-  STORMWATER PIPE DIAMETER AND FLOW
-  STORMWATER PIPE
-  SWALE
-  PIT STRUCTURE NUMBER
-  STORMWATER LINE NUMBER
-  INDICATIVE OVERLAND FLOW ROUTE
-  CONCRETE HEADWALL
-  1% FLOOD EXTENT
-  20% FLOOD EXTENT
-  RIP RAP



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CLIENT

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PROJECT
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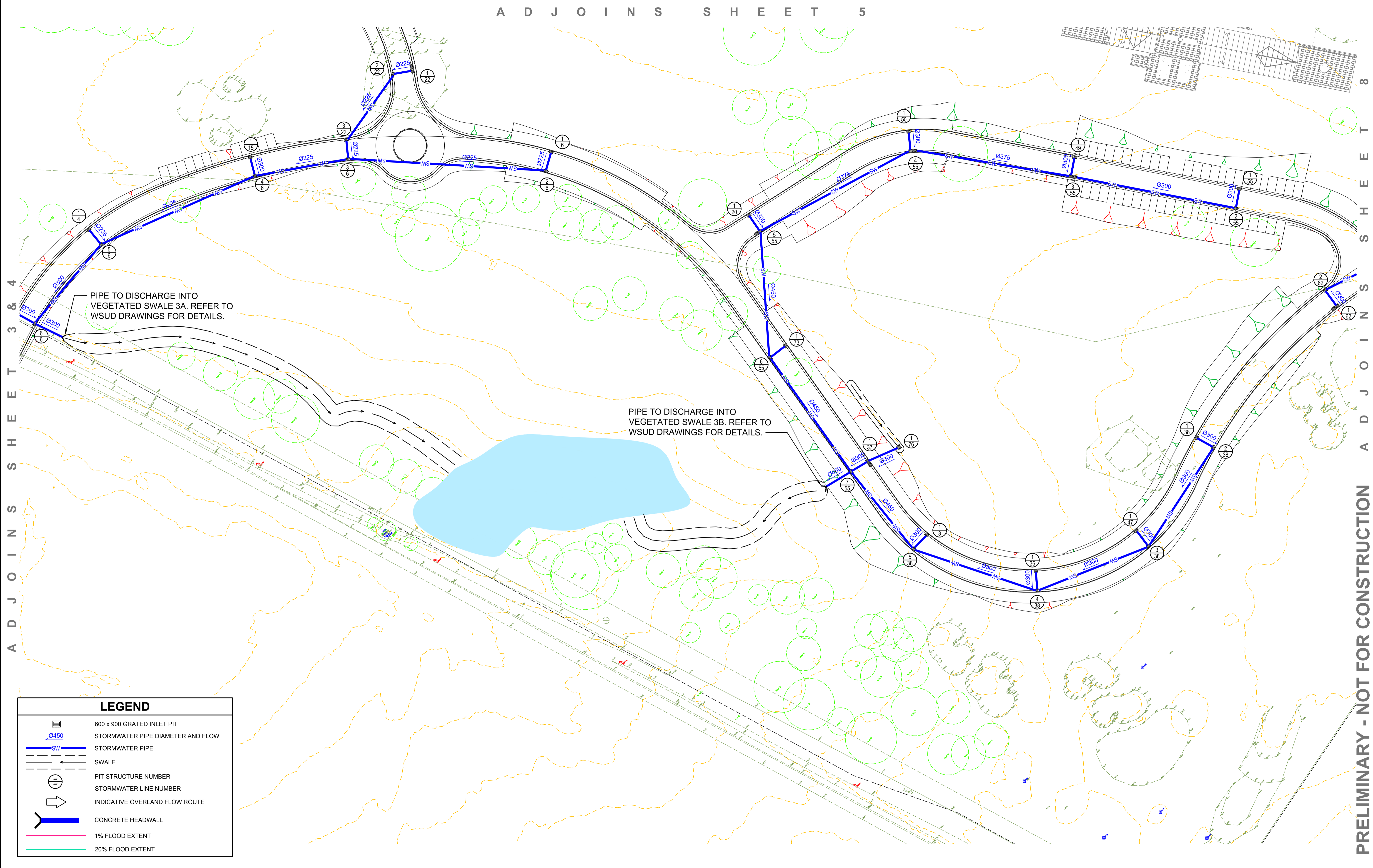
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TITLE
STORMWATER LAYOUT PLAN
SHEET 5 OF 8

SCALE AS SHOWN	DRAWN M.C.Z.	DESIGNED N.M.	CHECKED N.M.	APPROVED M.C.
JOB No. 5936000	DRAWING No. C6.06	ISSUE 3		
DATE 02/10/18	STATUS DEVELOPMENT APPLICATION			



A D J O I N S S H E E T 3 & 4

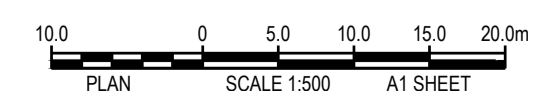
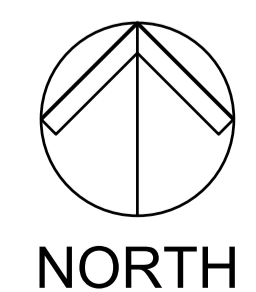
S H E E T 8 A D J O I N S S H E E T 5

PRELIMINARY - NOT FOR CONSTRUCTION

LEGEND

- 600 x 900 GRATED INLET PIT
- STORMWATER PIPE DIAMETER AND FLOW
- STORMWATER PIPE
- SWALE
- PIT STRUCTURE NUMBER
- STORMWATER LINE NUMBER
- INDICATIVE OVERLAND FLOW ROUTE
- CONCRETE HEADWALL
- 1% FLOOD EXTENT
- 20% FLOOD EXTENT

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PROJECT
WALLACIA GOLF COURSE

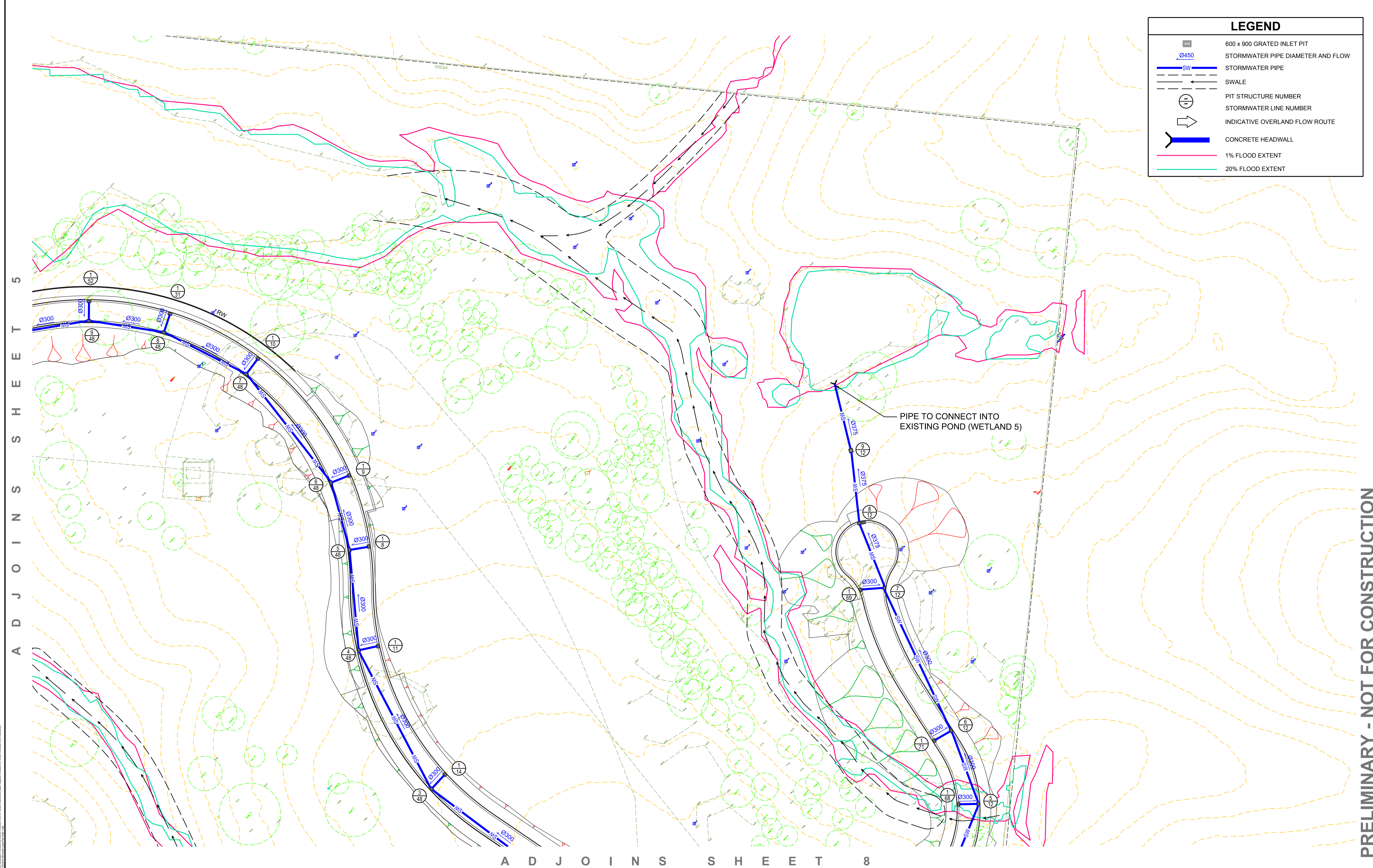
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TITLE
STORMWATER LAYOUT PLAN
SHEET 6 OF 8

SCALE AS SHOWN	DRAWN J.W.	DESIGNED J.W.	CHECKED N.M.	APPROVED M.C.
JOB No. 5936000	DRAWING No. C6.07		ISSUE 3	
DATE 02/10/18	STATUS DEVELOPMENT APPLICATION			



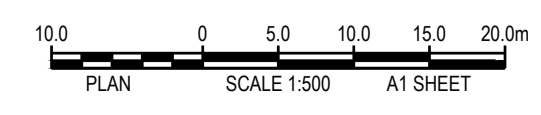
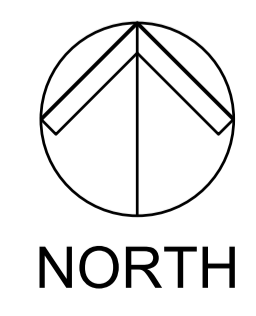
LEGEND	
	600 x 900 GRATED INLET PIT
	STORMWATER PIPE DIAMETER AND FLOW
	STORMWATER PIPE
	SWALE
	PIT STRUCTURE NUMBER
	STORMWATER LINE NUMBER
	INDICATIVE OVERLAND FLOW ROUTE
	CONCRETE HEADWALL
	1% FLOOD EXTENT
	20% FLOOD EXTENT

A D J O I N S S H E E T 5

A D J O I N S S H E E T 8

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUE FOR DEVELOPMENT APPLICATION	20/10/17			
02	RE-ISSUE FOR DEVELOPMENT APPLICATION	09/03/18			
03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18			

REVISION	AMENDMENT	DATE

CLIENT
 Catholic Cemeteries & Crematoria
Care, Compassion, Choice

PROJECT
WALLACIA GOLF COURSE



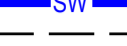
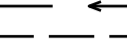


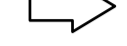



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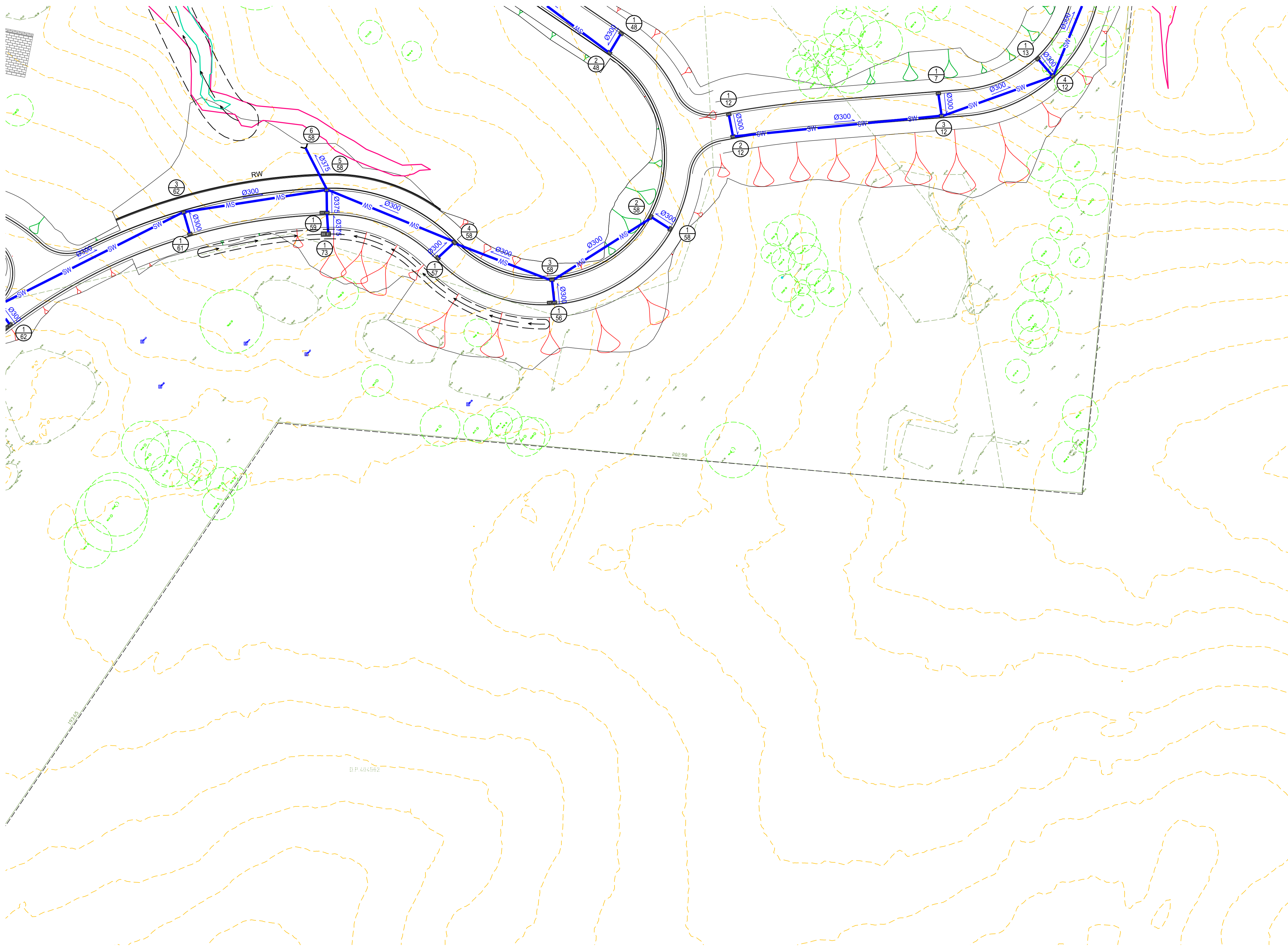
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TITLE				
STORMWATER LAYOUT PLAN				
SHEET 7 OF 8				
SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.
JOB No.	DRAWING No.		ISSUE	
5936000	C6.08		3	
DATE	STATUS			
02/10/18	DEVELOPMENT APPLICATION			

LEGEND

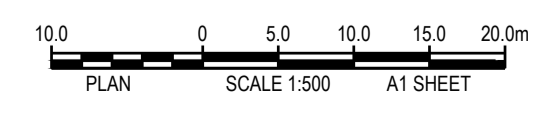
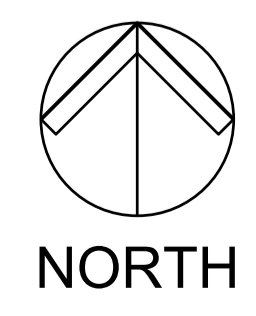
-  600 x 900 GRATED INLET PIT
-  STORMWATER PIPE DIAMETER AND FLOW
-  STORMWATER PIPE
-  SWALE
-  PIT STRUCTURE NUMBER
-  STORMWATER LINE NUMBER
-  INDICATIVE OVERLAND FLOW ROUTE
-  CONCRETE HEADWALL
-  1% FLOOD EXTENT
-  20% FLOOD EXTENT



A D J O I N S S H E E T 6

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REVISION	AMENDMENT	DATE	REVISION	AMENDMENT	DATE
01	ISSUE FOR DEVELOPMENT APPLICATION	20/10/17			
02	RE-ISSUE FOR DEVELOPMENT APPLICATION	09/03/18			
03	RE-ISSUE FOR DEVELOPMENT APPLICATION	02/10/18			

CLIENT  Catholic Cemeteries & Crematoria
Care, Compassion, Choice

PROJECT **WALLACIA GOLF COURSE**

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TITLE **STORMWATER LAYOUT PLAN**
SHEET 8 OF 8

SCALE AS SHOWN	DRAWN M.C.Z.	DESIGNED N.M.	CHECKED N.M.	APPROVED M.C.
JOB No. 5936000	DRAWING No. C6.09		ISSUE 3	
DATE 02/10/18	STATUS DEVELOPMENT APPLICATION			

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Name	Surface Elev. (m)	Pit Depth (m)	Pit Size and Type	From	To	Length (m)	U/S IL (m)	D/S IL (m)	Slope (%)	Pipe Type	Dia (mm)	No. Pipes
Pit 1/61	57.172	0.926	600 x 900 PIT, CLASS D GRATE	Pit 1/61	Pit 3/62	6.500	56.246	56.181	1.00	RCP	300	1
Pit 1/62	60.506	0.921	2 x 600x900 PIT, CLASS D GRATE	Pit 1/62	Pit 2/62	6.500	59.585	59.520	1.00	RCP	300	1
Pit 2/62	60.484	0.994	600 x 900 PIT, CLASS D GRATE	Pit 2/62	Pit 3/62	52.980	59.490	56.248	6.12	RCP	300	1
Pit 3/62	57.148	1.248	600 x 900 PIT, CLASS D GRATE	Pit 3/62	Pit 5/58	36.405	55.900	55.000	2.47	RCP	450	1
Pit 1/63	51.177	0.900	600 x 900 PIT, CLASS D GRATE	Pit 1/63	Pit 2/63	6.610	50.277	50.211	1.00	RCP	300	1
Pit 2/63	51.178	0.997	2 x 600x900 PIT, CLASS D GRATE	Pit 2/63	Pit 3/63	31.393	50.181	49.867	1.00	RCP	300	1
Pit 3/63	50.836	0.999	2 x 600x900 PIT, CLASS D GRATE	Pit 3/63	Pit 4/63	28.382	49.837	49.553	1.00	RCP	300	1
Pit 4/63	50.627	1.104	3 x 600x900 PIT, CLASS D GRATE	Pit 4/63	Pit 5/63	6.500	49.523	49.458	1.00	RCP	300	1
Pit 5/63	50.602	1.174	2 x 600x900 PIT, CLASS D GRATE	Pit 5/63	Headwall	9.822	49.428	49.290	1.41	RCP	300	1
Pit 1/64	50.866	0.930	600 x 900 PIT, CLASS D GRATE	Pit 1/64	Pit 3/63	6.500	49.936	49.871	1.00	RCP	300	1
Pit 1/65	50.877	0.900	600 x 900 PIT, CLASS D GRATE	Pit 1/65	Pit 2/65	6.500	49.977	49.912	1.00	RCP	300	1
Pit 2/65	50.902	1.020	600 x 900 PIT, CLASS D GRATE	Pit 2/65	Pit 4/63	26.303	49.882	49.619	1.00	RCP	300	1
Pit 1/66	43.677	0.930	2 x 600x900 PIT, CLASS D GRATE	Pit 1/66	Pit 8/42	6.495	42.747	42.682	1.00	RCP	300	1
Pit 1/67	43.300	1.290	2 x 900SQ PIT, CLASS C GRATE	Pit 1/67	Pit 1/40	5.866	42.010	41.951	1.01	RCP	525	1
Pit 1/68	58.143	0.910	600 x 900 PIT, CLASS D GRATE	Pit 1/68	Pit 5/12	6.499	57.233	57.168	1.00	RCP	300	1
Pit 1/69	57.798	0.900	600 x 900 PIT, CLASS D GRATE	Pit 1/69	Pit 7/12	7.663	56.898	56.821	1.00	RCP	300	1
Pit 1/70	51.966	0.900	2 x 600x900 PIT, CLASS D GRATE	Pit 1/70	Pit 3/27	6.500	51.066	51.001	1.00	RCP	300	1
Pit 1/71	58.916	0.900	600 x 900 PIT, CLASS D GRATE	Pit 1/71	Pit 6/12	6.504	58.016	57.951	1.00	RCP	300	1
Pit 1/72	56.382	0.900	600 x 900 PIT, CLASS D GRATE	Pit 1/72	Pit 6/55	5.115	55.482	55.431	1.00	RCP	300	1
Pit 1/73	56.307	1.155	2 x 900SQ PIT, CLASS C GRATE	Pit 1/73	Pit 1/59	4.604	55.152	55.106	1.00	RCP	375	1
Pit 1/74	45.600	0.975	2 x 900SQ PIT, CLASS C GRATE	Pit 1/74	Pit 1/18	4.670	44.625	44.578	1.01	RCP	375	2
Pit 1/75	42.610	1.940	900SQ PIT, CLASS C GRATE	Pit 1/75	Pit 9/17	12.665	40.670	40.543	1.00	RCP	375	1
Pit 1/76	56.761	2.031	900SQ PIT, CLASS C GRATE	Pit 1/76	Pit 1/37	9.200	54.730	54.638	1.00	RCP	300	1

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REVISION	AMENDMENT	DATE

CLIENT

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TITLE
STORMWATER DRAINAGE SCHEDULE SHEET 3 OF 3

SCALE	DRAWN	DESIGNED	CHECKED	APPROVED
AS SHOWN	M.C.Z.	N.M.	N.M.	M.C.

JOB No. **5936000** DRAWING No. **C6.12** ISSUE **3**

DATE 02/10/18 STATUS DEVELOPMENT APPLICATION