

XREFS: x0521014-1 Title
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 SAVE DATE: 28-Jun-21 4:18:45 PM BY: Laas.dehno DATE PLOTTED: 28-Jun-21 5:09:28 PM BY: LAAS DE BRTO

GENERAL:

- GEN.1. THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR CIVIL ENGINEERING PURPOSES ONLY. ALL DISCREPANCIES WITH OTHER CONSULTANTS DOCUMENTATION THAT COULD RESULT IN CHANGES TO THE CIVIL ENGINEERING DETAILS SHALL BE REFERRED TO THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- GEN.2. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATIONS FOR THESE WORKS AND/OR AS DIRECTED BY THE SUPERINTENDENT.
- GEN.3. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES AND UTILITIES PRIOR TO COMMENCING CONSTRUCTION AND PROTECT AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY. INFORMATION GIVEN ON THE DRAWINGS IN RESPECT TO SERVICES IS FOR GUIDANCE ONLY AND IS NOT GUARANTEED COMPLETE NOR CORRECT.
- GEN.4. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER AND SUPERINTENDENT.
- GEN.5. CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS, ETC. TO THE EXTENT SPECIFIED.
- GEN.6. ALL SITE REGRADING AREAS SHALL BE FINALLY GRADED TO THE SATISFACTION OF THE SUPERINTENDENT.
- GEN.7. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE.
- GEN.8. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.
- GEN.9. TEST PITS - ARE REFERENCED IN THE GEOTECHNICAL INVESTIGATION REPORT No. 82220098-001.3 PREPARED BY CARDNO AND DATED JUN '21.
- GEN.10. ANY QUANTITIES GIVEN ARE FOR GUIDANCE ONLY.

SURVEY:

- SU.1. CO-ORDINATES AND LEVELS OBTAINED FROM SURVEY BY COUNCIL AND TSS. TSS DRAWING REFERENCE No. 210130-1 DATED 21/02/21.
- SU.2. ALL LEVELS ARE TO A.H.D.
- SU.3. ALL CHAINAGES AND LEVELS ARE IN METRES, AND DIMENSIONS IN MILLIMETRES.
- SU.4. ORIGIN OF LEVELS : PM 20839 R.L. 45.555
CO-ORDINATES : M.G.A.
- SU.5. CONTRACTORS SHALL ARRANGE FOR THE WORKS TO BE SET OUT BY A REGISTERED SURVEYOR.

EARTHWORKS:

- BE.1. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS ETC. AND STRIP TOPSOIL, AVERAGE 100mm THICK. REMOVE FROM SITE EXCEPT TOP SOIL FOR RE-USE.
- BE.2. EXCAVATE THE EXPOSED SOIL TO THE FINISHED SUB-GRADE LEVEL. DISCARD ANY EXPOSED MATERIAL WITHIN THE CATEGORY DESCRIBED IN NOTE BE1.
- BE.3. CUT AND FILL OVER THE SITE TO LEVELS REQUIRED.
- BE.4. ALL CONDUITS AND MAINS SHALL BE LAID PRIOR TO LAYING FINAL PAVEMENT.

EROSION AND SEDIMENT CONTROL:

- ES.1. INSTALL PIT PROTECTION, AND SAND BAGS IN ACCORDANCE WITH DETAILS ON DRAWING 80521014-CI-247 AND LOCAL COUNCIL REQUIREMENTS.
- ES.2. STRIP VEGETATION FROM ALL CUT AREAS AND DISPOSE OFF SITE.
- ES.3. STRIP TOPSOIL FROM ALL CUT AREAS AND STOCKPILE ON SITE.
- ES.4. EXCAVATE ALL CUT AREAS AND PLACE COMPACTED FILL WHERE REQUIRED.
- ES.5. CONSTRUCT FOOTPATH AND PAVING. ALL ADJACENT LANDSCAPE AREAS ARE TO BE STABILISED AND VEGETATED WITHIN 20 DAYS OF WORK COMPLETION.
- ES.6. AT THE COMPLETION OF ALL WORK, REMOVE EROSION CONTROL MEASURES. RESTORE GROUND TO MINIMISE EROSION AND SEDIMENT PRODUCTION.

WARNING: WHEREVER SEDIMENT AND EROSION CONTROL DEVICES ARE REMOVED EARLIER IN THE CONSTRUCTION SEQUENCE THAN AS SPECIFIED ABOVE, ENSURE THAT THE DISTURBED GROUND IS RE-VEGETATED TO REDUCE THE LIKELIHOOD OF EROSION AND SEDIMENT TRANSPORT FROM THE SITE.

STREET LIGHTING DESIGN:

- SL.1. FOR CONCEPT STREET LIGHTING DESIGN REFER CARDNO DRAWINGS 80521014-EL-151 to 155, REV 2.
- SL.2. DETAILED DESIGN DRAWINGS TO BE ISSUED UPON APPROVAL OF DESIGN BY AUSGRID.
- SL.3. ALL EXISTING AND PROPOSED STEEL LIGHT POLES AND OUTREACH ARMS ARE TO BE PAINTED IN HEX COLOUR CODE #6A6C6E. THE PAINTING PROCESS SHALL USE A TWO-PART POLYURETHANE PAINT FINISH APPLIED OVER THE EXTERIOR GALVANISED SURFACE OF THE STEEL POLE AND BRACKET ARM. SURFACE PREPARATION AND APPLICATION SHALL BE TO THE PAINT MANUFACTURER'S REQUIREMENTS.

CONCRETE:

- C.1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600, AS 1379 & AS 3610 CURRENT EDITIONS WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C.2. CONCRETE QUALITY : ALL CEMENT TO BE TYPE SL, SHRINKAGE LIMITED CEMENT IN ACCORDANCE WITH AS3972, EXCEPT THAT THE MAXIMUM SHRINKAGE OF THE CEMENT IN THE MORTAR TEST SAMPLE IN ACCORDANCE WITH AS2350 SHALL BE LESS THAN 600 MICROSTRAIN.

STRUCTURAL ELEMENT	REINFORCEMENT COVER			
	INTERNAL		EXTERNAL	
	TOP	BTM	TOP	BTM
SLAB ON GROUND	30	50	50	50

PROJECT ASSESSMENT SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379 CLAUSE B7.

- C.3. (i) ALL CONCRETE IN SLABS AND BEAMS TO BE PROPORTIONED TO LIMIT DRYING SHRINKAGE TO 650 MICROSTRAIN AT 56 DAYS.
(ii) DETAILS OF THE PROPOSED MIX TO BE SUBMITTED & APPROVAL OBTAINED PRIOR TO POURING ANY CONCRETE.
(iii) SHRINKAGE TESTS SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY IN ACCORDANCE WITH AS 1012 PART 13. TESTS SHALL BE CONDUCTED ON THE FIRST BATCH OF CONCRETE USED IN SUSPENDED SLABS AND SUBSEQUENTLY AT THE RATE OF ONE TEST EVERY ADDITIONAL 100 CUBIC METRES OF CONCRETE SUPPLIED. THREE SPECIMENS SHALL BE TAKEN FOR EACH TEST AND THE SHRINKAGE SHALL BE THE AVERAGE OF THE THREE RESULTS. THE COST OF TESTING SHALL BE BORNE BY THE CONTRACTOR AS SHALL ANY ADDITIONAL TESTS REQUIRED IF THE CONCRETE FAILS TO MEET THE SPECIFIED SHRINKAGE LIMITS.
- C.4. NO ADMIXTURES OTHER THAN LOW RANGE WRA SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
- C.5. CLEAR CONCRETE COVER TO ALL REINFORCEMENT SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE. COVER MAY NEED TO BE INCREASED FOR FIRE RATING.

STRUCTURAL ELEMENT	SLUMP (MAX)	MAX AGG. SIZE	CEMENT TYPE	ADMIX.	CONCRETE GRADE
SLAB ON GROUND	80	20mm	GP	N/A	25 MPa

NOTE: WHERE CONCRETE IS POURED ON A VAPOURPROOF MEMBRANE 0.2 mm MINIMUM THICKNESS, THE COVER TO CONCRETE CAST AGAINST GROUND MAY BE REDUCED BY 10 mm.

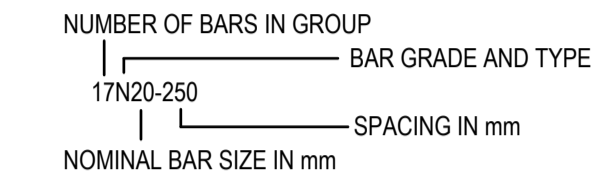
- C.6. CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES. NO FINISH WHICH DECREASES COVER IS ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER
- C.7. NO HOLES, CHASES, BLOCKOUTS, DUCTS OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- C.8. CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- C.9. THE FINISHED CONCRETE SHALL BE MECHANICALLY VIBRATED TO ACHIEVE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.

CONCRETE (cont):

- C.10. CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF THREE DAYS, AND THE PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT. APPROVED SPRAYED ON CURING COMPOUNDS THAT COMPLY WITH AS 3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED (REFER MANUFACTURERS SPECIFICATION). POLYTHENE SHEETING OR WET HESSIAN MAY BE USED IF PROTECTED FROM WIND AND TRAFFIC.
- C.11. REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT THE PERMISSION OF THE ENGINEER.

REINFORCEMENT:

- R.1. REINFORCEMENT SYMBOLS:
N - DENOTES GRADE 500 N BARS TO AS 4671
R - DENOTES GRADE 250 R HOT ROLLED PLAIN BARS TO AS 4671
L - DENOTES GRADE 500 L HARD-DRAWN WIRE REINFORCING FABRIC TO AS 4671
W - DENOTES GRADE 450 W HARD-DRAWN PLAIN WIRE TO AS 4671



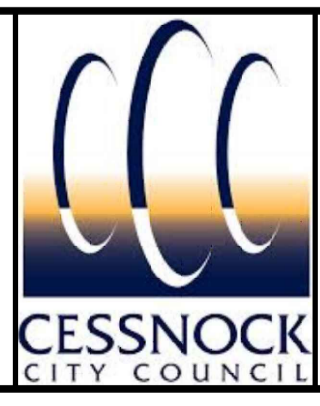
THE FIGURES FOLLOWING THE FABRIC SYMBOLS RL, SL, L .. TM IS THE REFERENCE NUMBER TO AS 4671.

- R.2. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- R.3. SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE APPROVED IN WRITING BY THE ENGINEER. LAPS SHALL BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR, AS PER THE TABLE BELOW:

BAR SIZE	MINIMUM LAP
N10	450
N12	500
N16	650
N20	1000
N24	1350
N28	1600
N32	1800
N36	2100

- R.4. BOTTOM BAR LAPPED @ SUPPORTS AND TOP BAR LAPPED AT MID SPAN.
- R.4. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.
- R.5. FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 25 mm. BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF THE WIRE.
- R.6. WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAP WITH MAIN BARS 400 mm UNLESS NOTED.
- R.7. JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF 1 BAR DIAMETER.
- R.8. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METRE CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND AS FORMWORK PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC TIPPED STEEL CHAIRS SHALL NOT BE USED ON EXPOSED FACES IN EXPOSURE CLASSIFICATION B1, B2 AND C ONLY PLASTIC OR CONCRETE CHAIRS.
- R.9. THE STRUCTURAL ENGINEER SHALL BE GIVEN 48 HOURS NOTICE FOR REINFORCEMENT INSPECTION AND CONCRETE SHALL NOT BE DELIVERED UNTIL FINAL APPROVAL HAS BEEN OBTAINED FROM THE STRUCTURAL ENGINEER.

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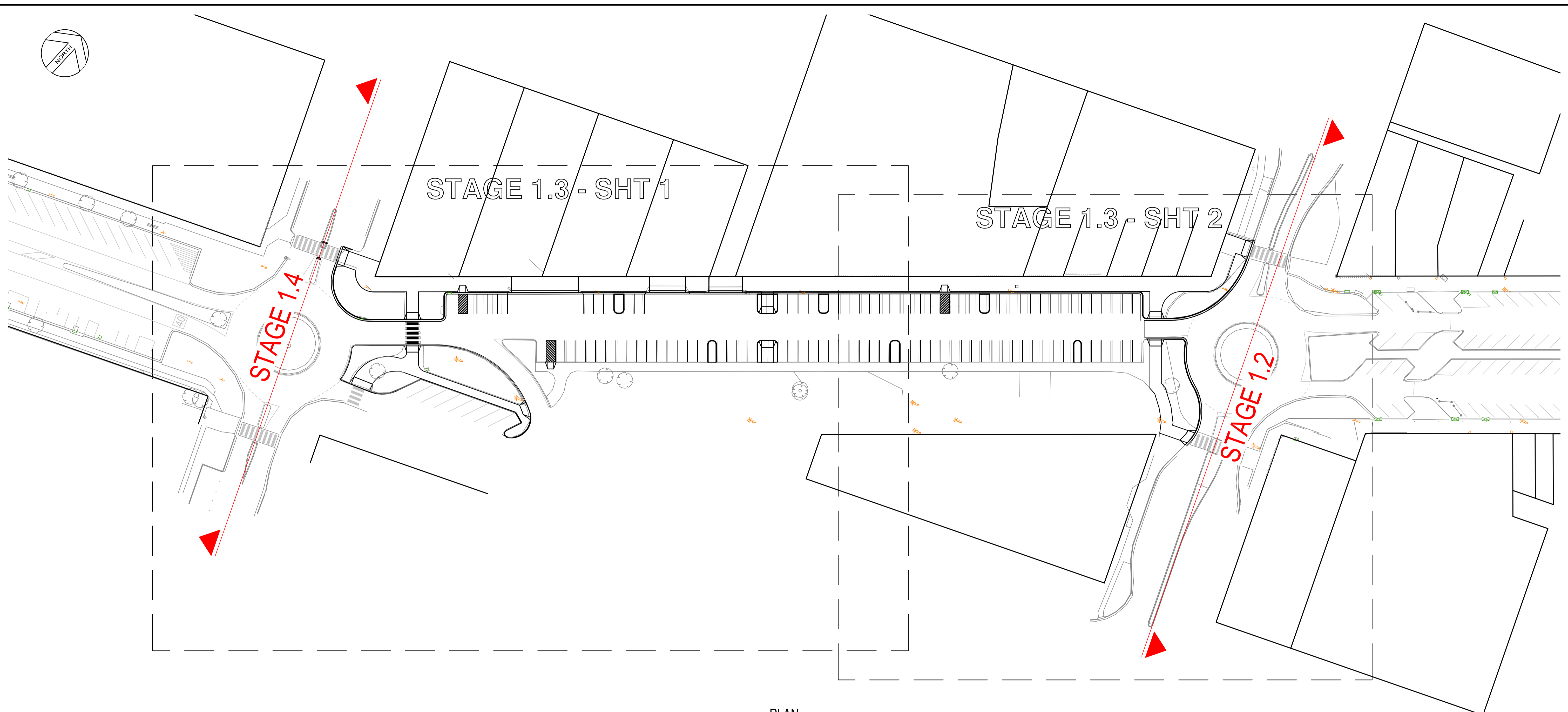
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Drawn LDB	Date APR 21	Client CESSNOCK CITY COUNCIL
Checked DSA	Date APR 21	Project LANG ST UPGRADE - STAGE 1.3
Designed DSA/SJB	Date APR 21	ALLWORTH ST TO HAMPDEN ST
Verified SJB	Date APR 21	KURRI KURRI
Approved SJB	Date JUN 21	Title CONSTRUCTION NOTES

Status FOR CONSTRUCTION			
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Drawing Number 80521014-CI-201			Revision A

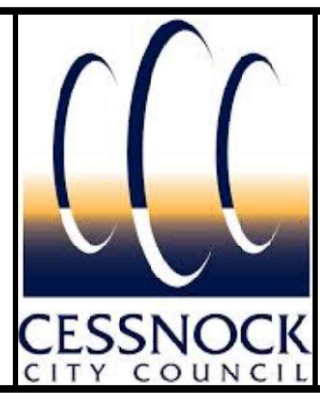
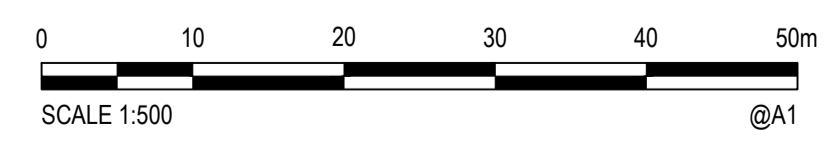
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PLAN
SCALE 1:500

LEGEND	
	PROPOSED KERB AND GUTTER
	PROPOSED KERB ONLY, BARRIER TYPE SM
	PROPOSED DRIVEWAY LAYBACK
	PROPOSED KERB RAMP
	PROPOSED PEDESTRIAN CROSSING
	EXISTING PEDESTRIAN CROSSING
	EXISTING TREE
	EXISTING LIGHT POLE
	EXISTING POWER POLE

Rev.	Date	Description	Des.	Verif.	Appd.
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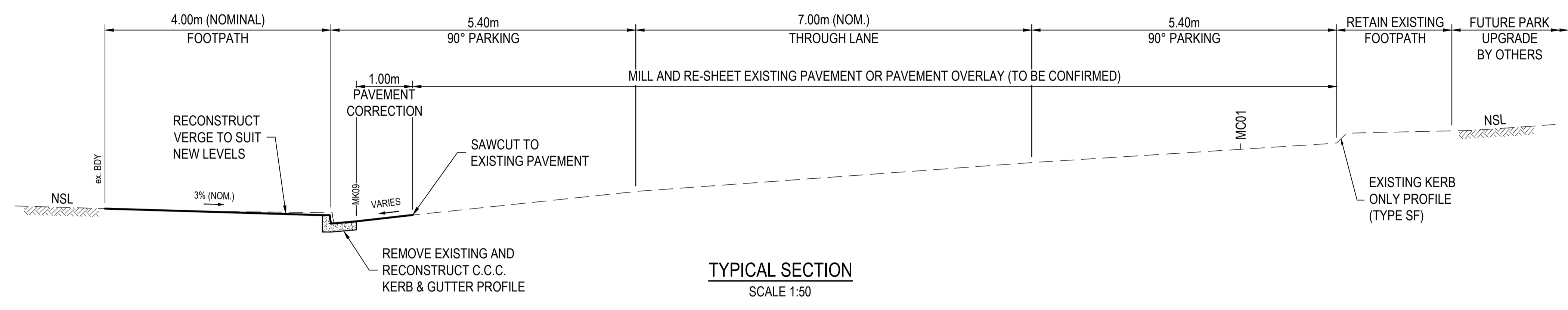
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 34/205-207 Albany Street North
 Gosford, NSW 2250
 Tel: 02 4323 2558 Fax: 02 4324 3251
 Web: www.cardno.com.au

Drawn	LDB	Date	MAY 21
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Approved		Date	JUN 21

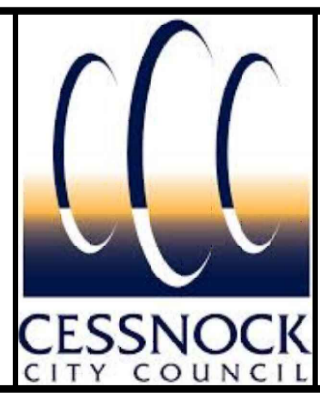
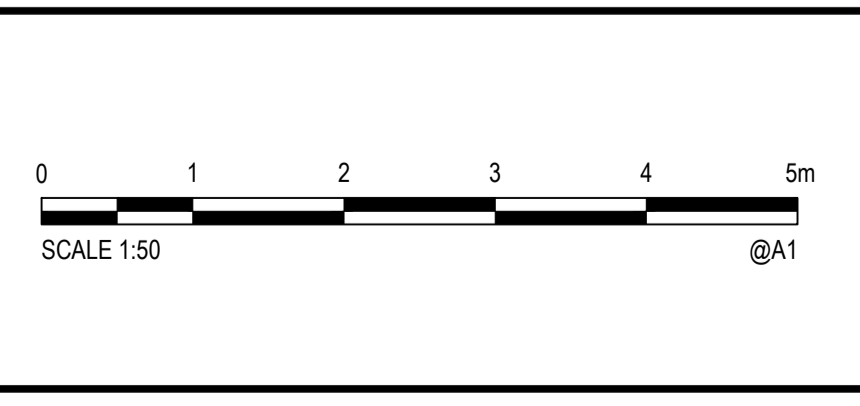
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Project	LANG ST UPGRADE - STAGE 1.3 ALLWORTH ST TO HAMPDEN ST KURRI KURRI
Title	GENERAL ARRANGEMENT PLAN

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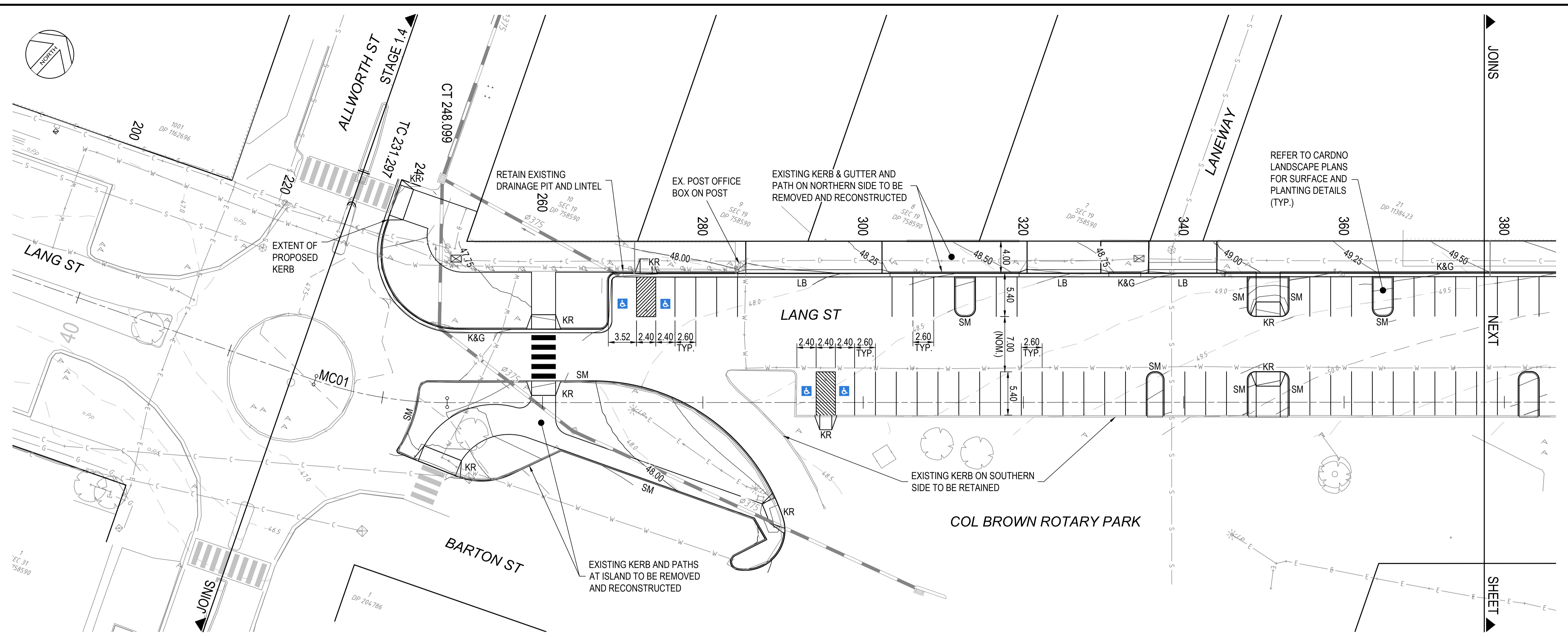
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Designed	DSA/SJB	Date	MAY 21
Verified	SJB	Date	MAY 21
Approved	SJB	Date	JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3 ALLWORTH ST TO HAMPDEN ST KURRI KURRI
Title	TYPICAL SECTIONS

Status				FOR CONSTRUCTION				
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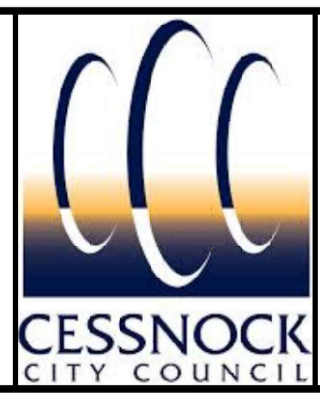
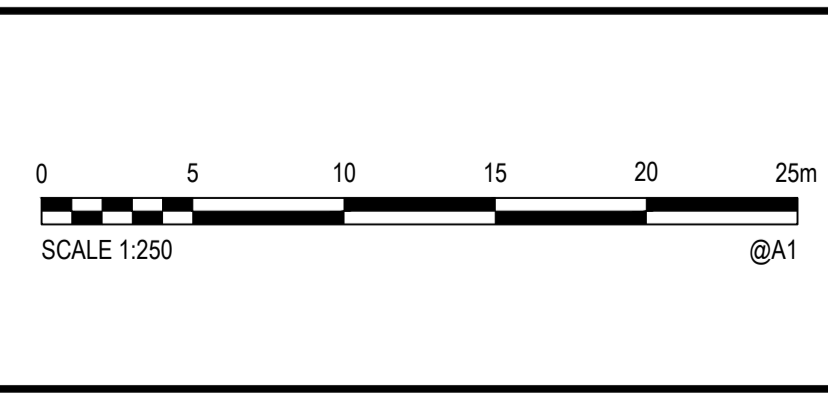


PLAN
SCALE 1:250

LEGEND	
PROPOSED	EXISTING
K&G KERB AND GUTTER	$\phi 375$ STORMWATER PIPE AND SIZE
SM KERB ONLY, BARRIER TYPE SM	STORMWATER PIT
LB DRIVEWAY LAYBACK	-49.5 SURFACE CONTOURS (INTERVAL = 0.5m)
KR KERB RAMP	PEDESTRIAN CROSSING
PC PEDESTRIAN CROSSING	TREE
-50.00 CONTOURS (INTERVAL = 0.25m)	LIGHT POLE
	POWER POLE

LEGEND	
C	EXISTING COMMUNICATIONS
W	EXISTING WATER MAIN
G	EXISTING GAS
E	EXISTING ELECTRICITY
S	EXISTING SEWER

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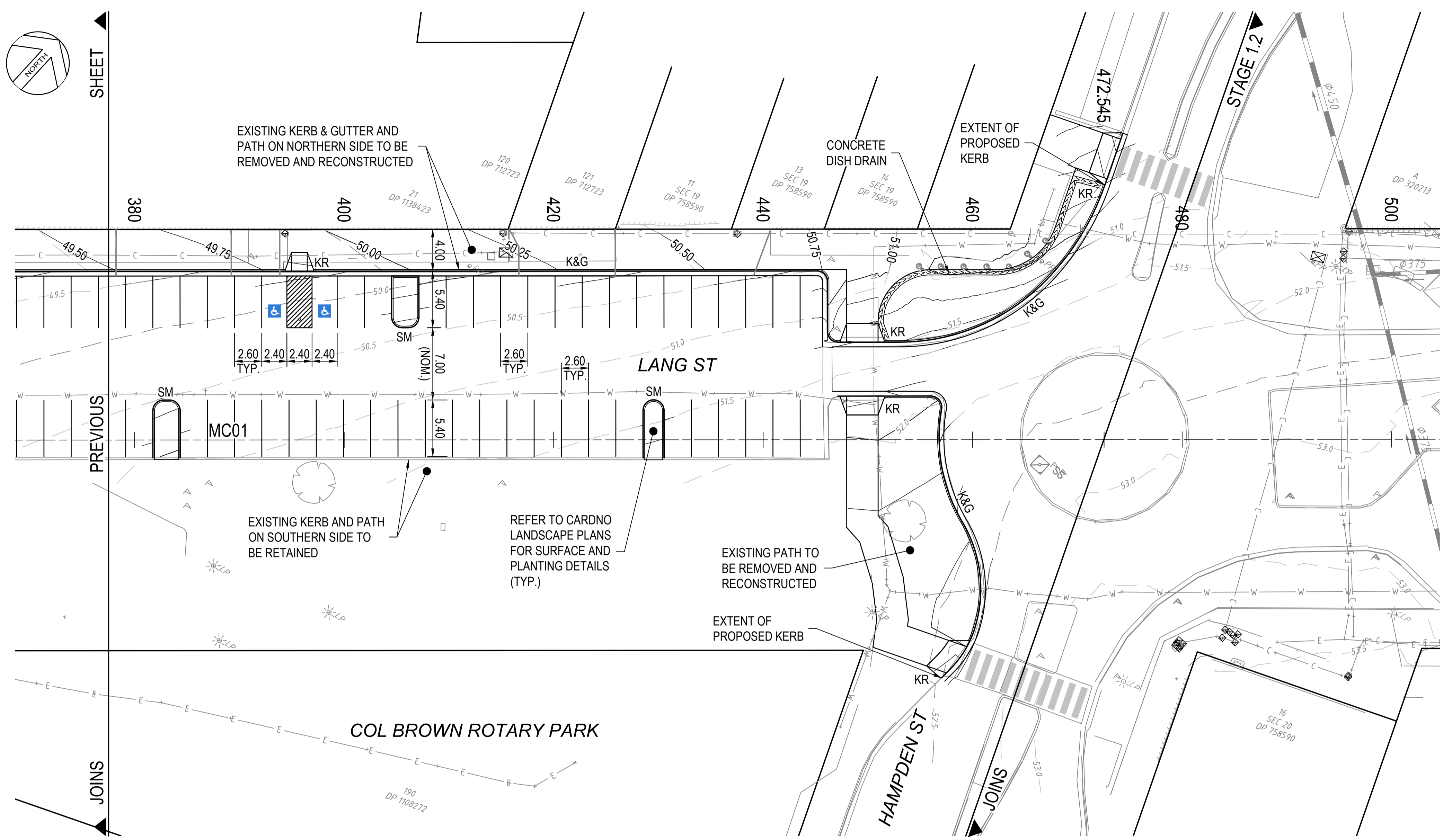
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 Gosford, NSW 2250
 Tel: 02 4323 2558 Fax: 02 4324 3251
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Verified	SJB	Date	MAY 21
Approved		Date	JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3 ALLWORTH ST TO HAMPDEN ST KURRI KURRI
Title	DETAIL PLAN SHEET 1

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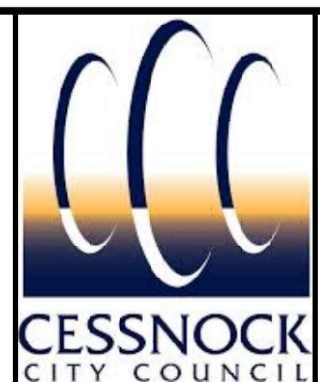
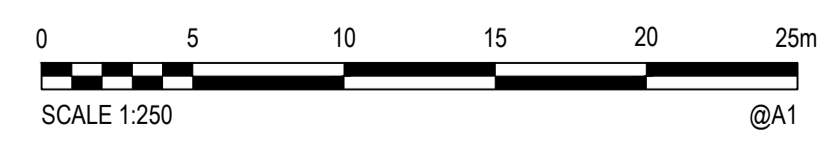
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PLAN
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LEGEND	
PROPOSED	EXISTING
K&G KERB AND GUTTER	$\phi 375$ STORMWATER PIPE AND SIZE
SM KERB ONLY, BARRIER TYPE SM	STORMWATER PIT
LB DRIVEWAY LAYBACK	-49.5 SURFACE CONTOURS (INTERVAL = 0.5m)
KR KERB RAMP	PEDESTRIAN CROSSING
PC PEDESTRIAN CROSSING	TREE
-50.00 CONTOURS (INTERVAL = 0.25m)	LIGHT POLE
	POWER POLE

LEGEND	
C	EXISTING COMMUNICATIONS
W	EXISTING WATER MAIN
G	EXISTING GAS
E	EXISTING ELECTRICITY
S	EXISTING SEWER



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 Cardno (NSW/ACT) Pty Ltd | ABN 95 001 145 035
 34/205-207 Albany Street North
 Gosford, NSW 2250
 Tel: 02 4323 2558 Fax: 02 4324 3251
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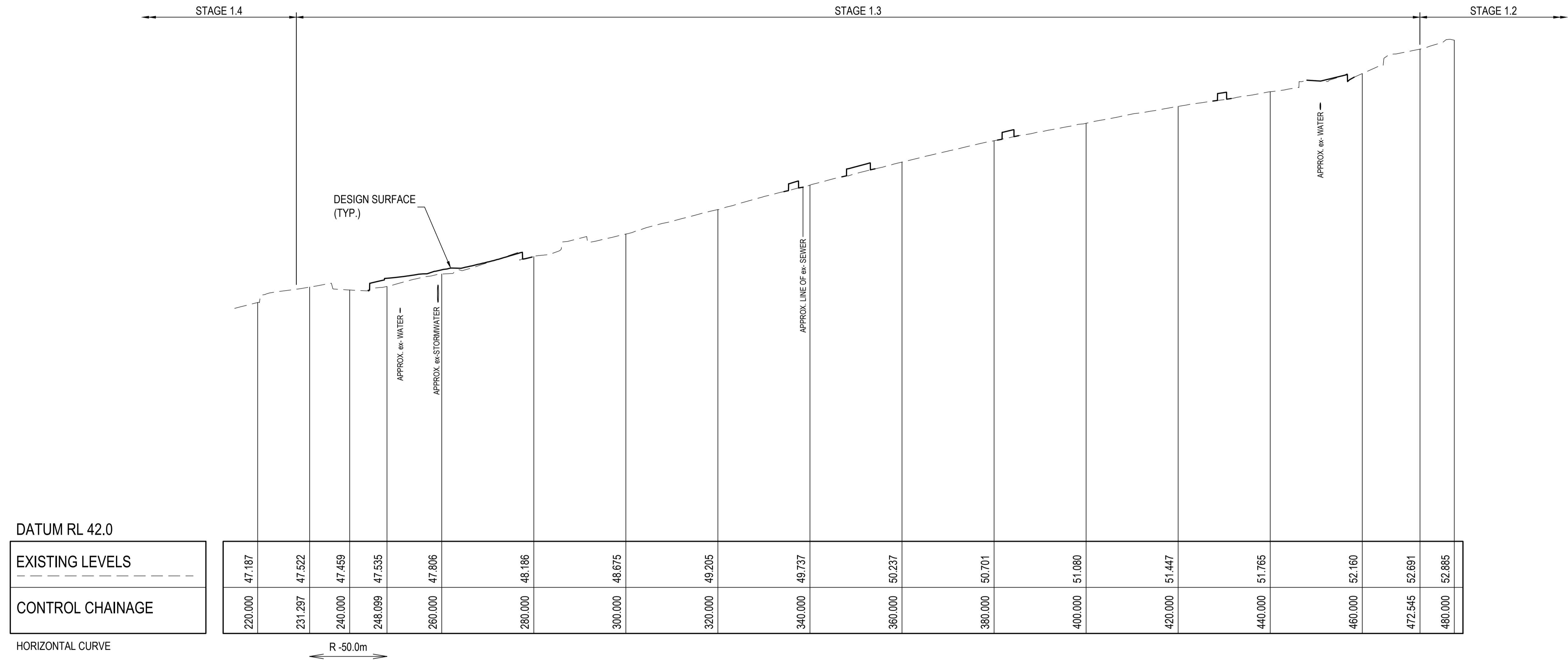
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Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3 ALLWORTH ST TO HAMPDEN ST KURRI KURRI
Title	DETAIL PLAN SHEET 2

Status	FOR CONSTRUCTION						
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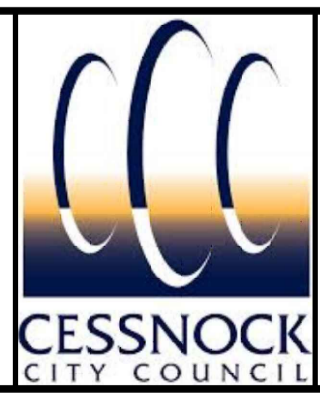
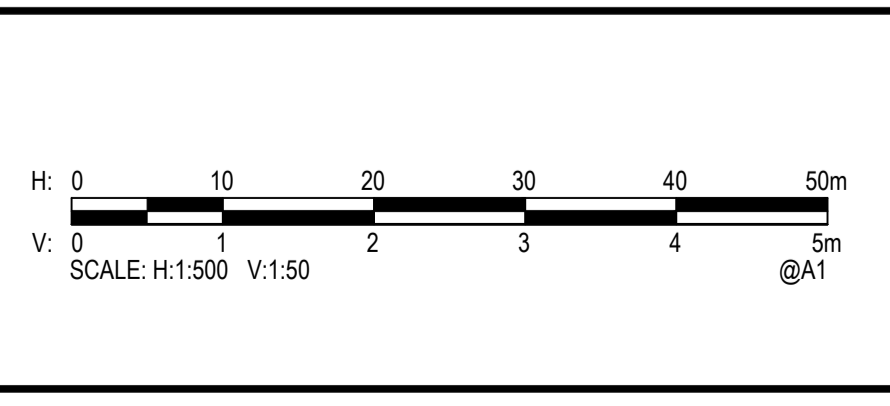
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LONGSECTION CONTROL LINE MC01
 HORIZ. SCALE 1:500
 VERT. SCALE 1:50

FOR INFORMATION ONLY

Rev.	Date	Description	Des.	Verif.	Appd.
A	28/06/21	ISSUED FOR CONSTRUCTION	DSA	SJB	SJB



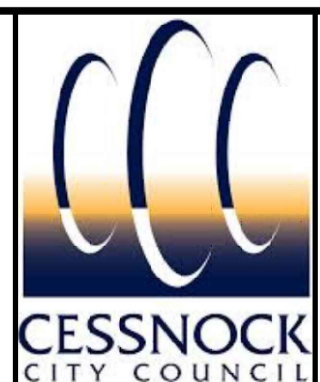
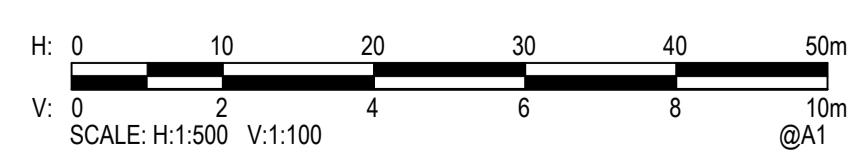
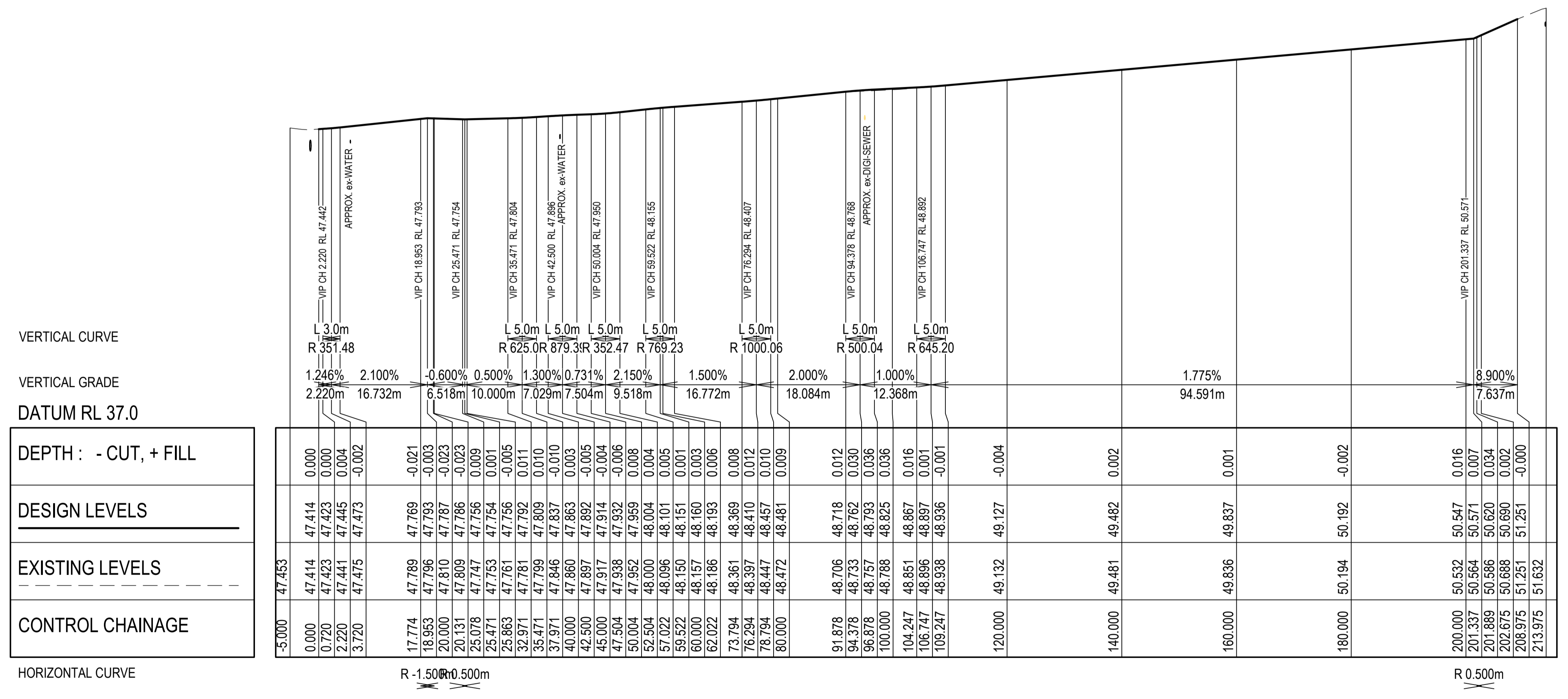
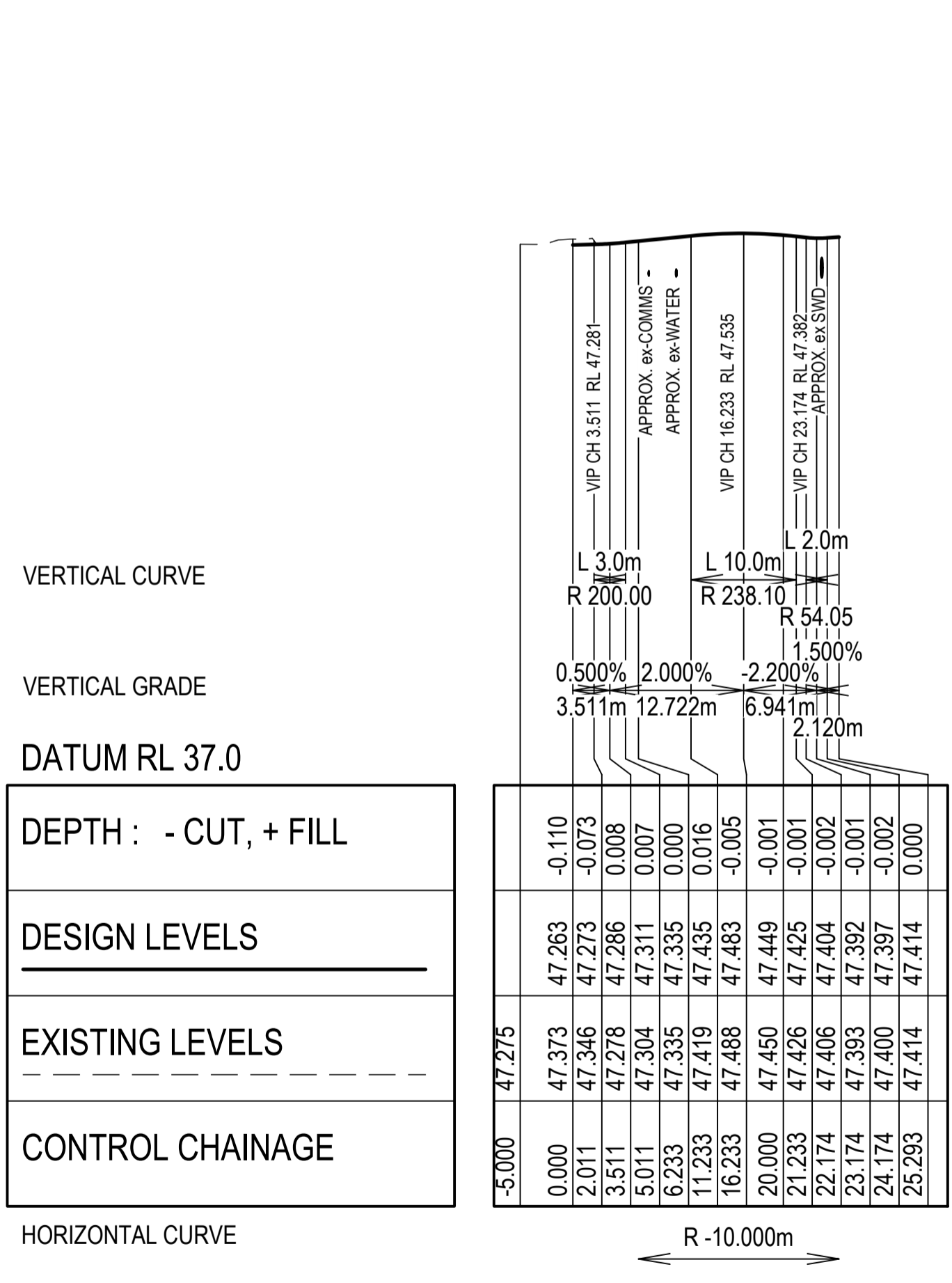
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Drawn LDB	Date MAY 21
Checked DSA	Date MAY 21
Designed DSA/SJB	Date MAY 21
Verified SJB	Date MAY 21
Approved SJB	Date JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3
Title	ALL WORTH ST TO HAMPDEN ST KURRI KURRI
Title	ROAD LONGSECTION

Status	FOR CONSTRUCTION						
Datum	AHD	Register	-	Scale	AS SHOWN	Size	A1
Drawing Number	80521014-CI-220			Revision	A		



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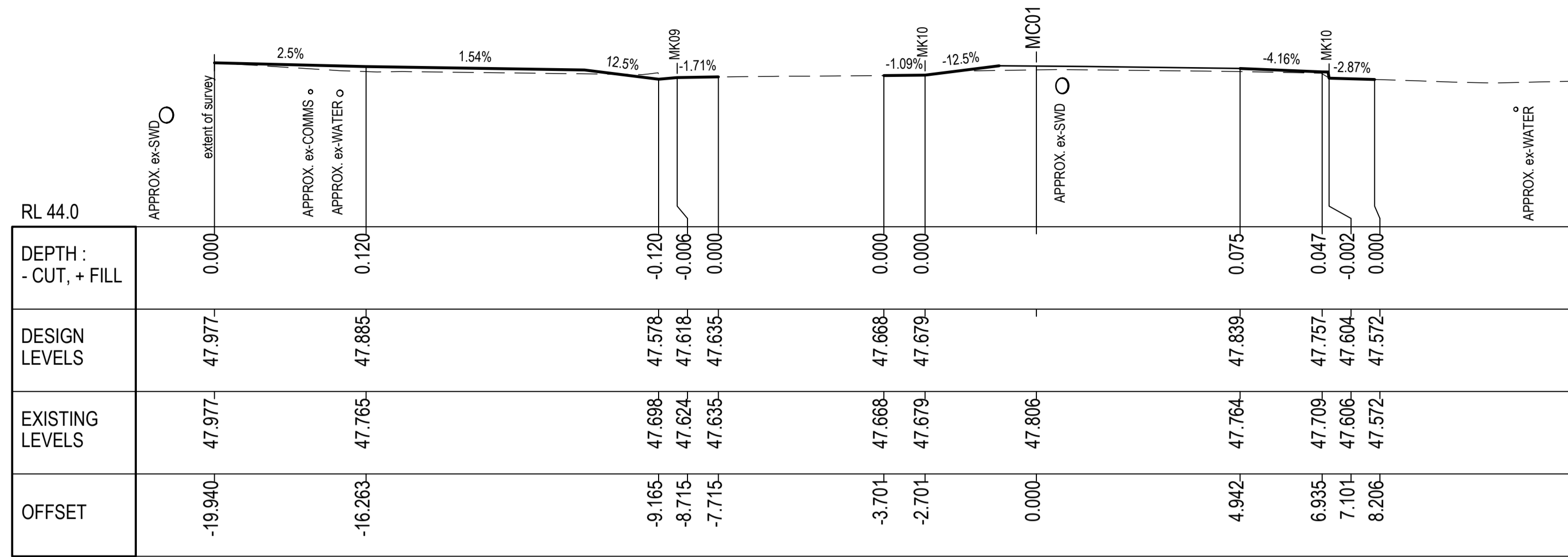
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Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3 ALLWORTH ST TO HAMPDEN ST KURRI KURRI
Title	KERB LONGSECTIONS SHEET 1

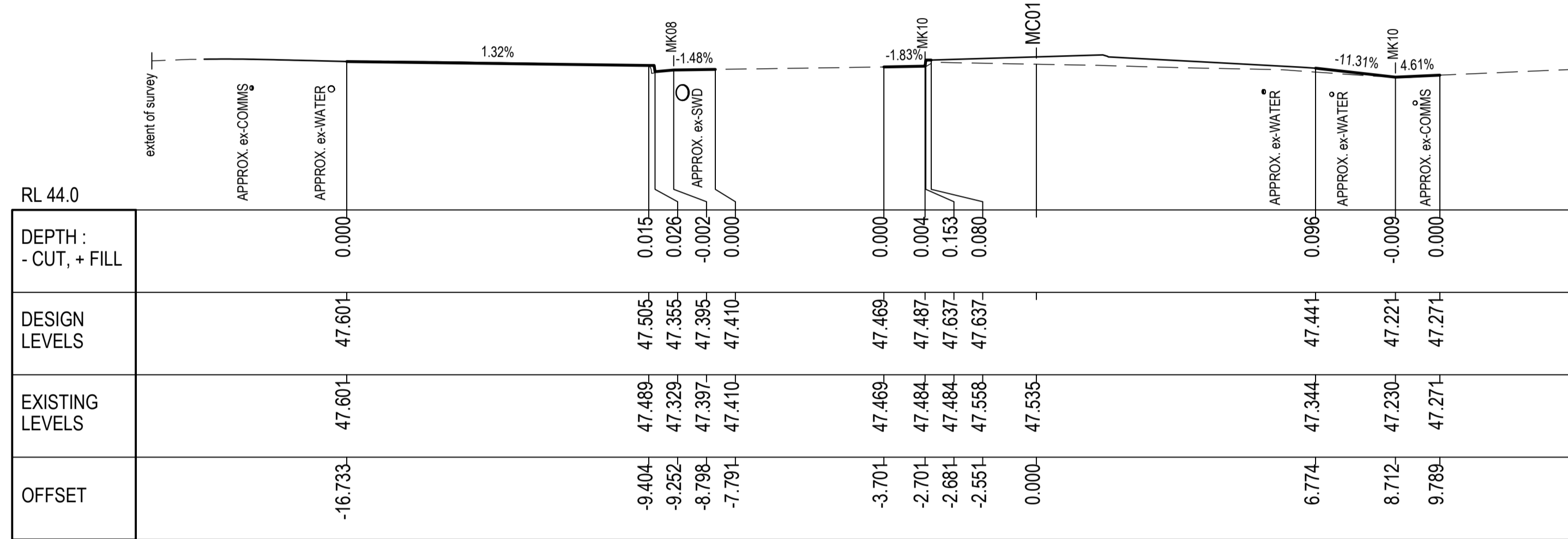
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Drawing Number			Revision
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Rev.	Date	Description	Des.	Verif.	Appd.
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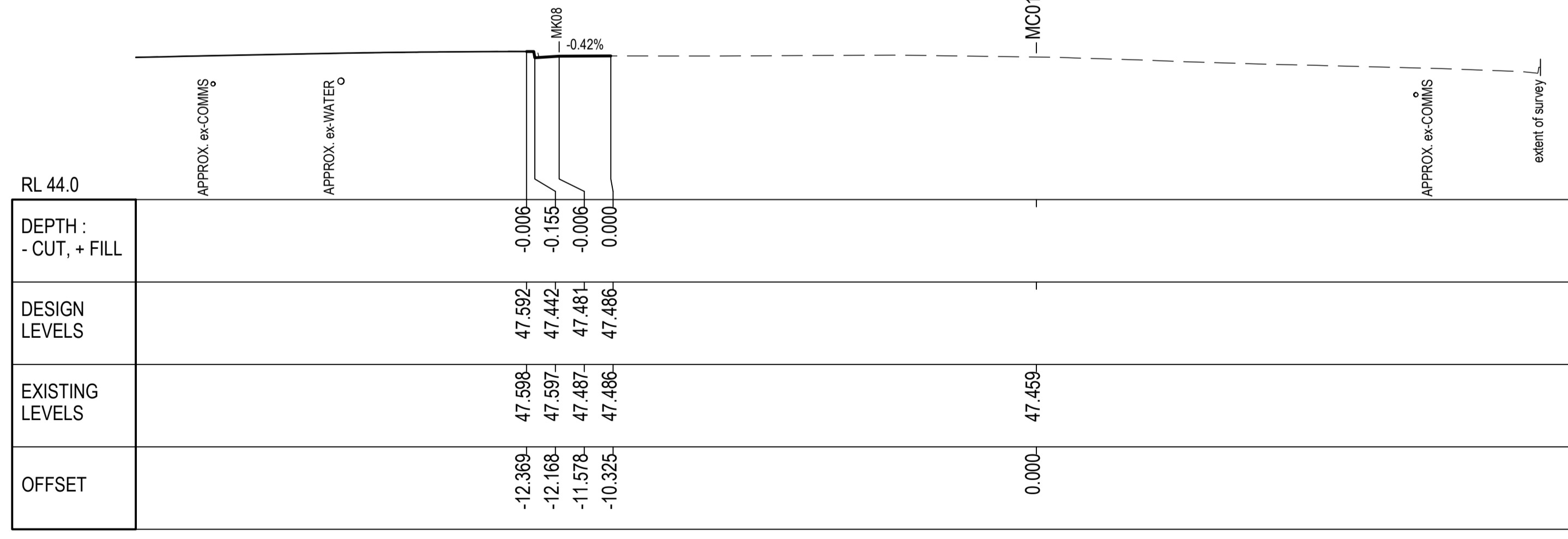
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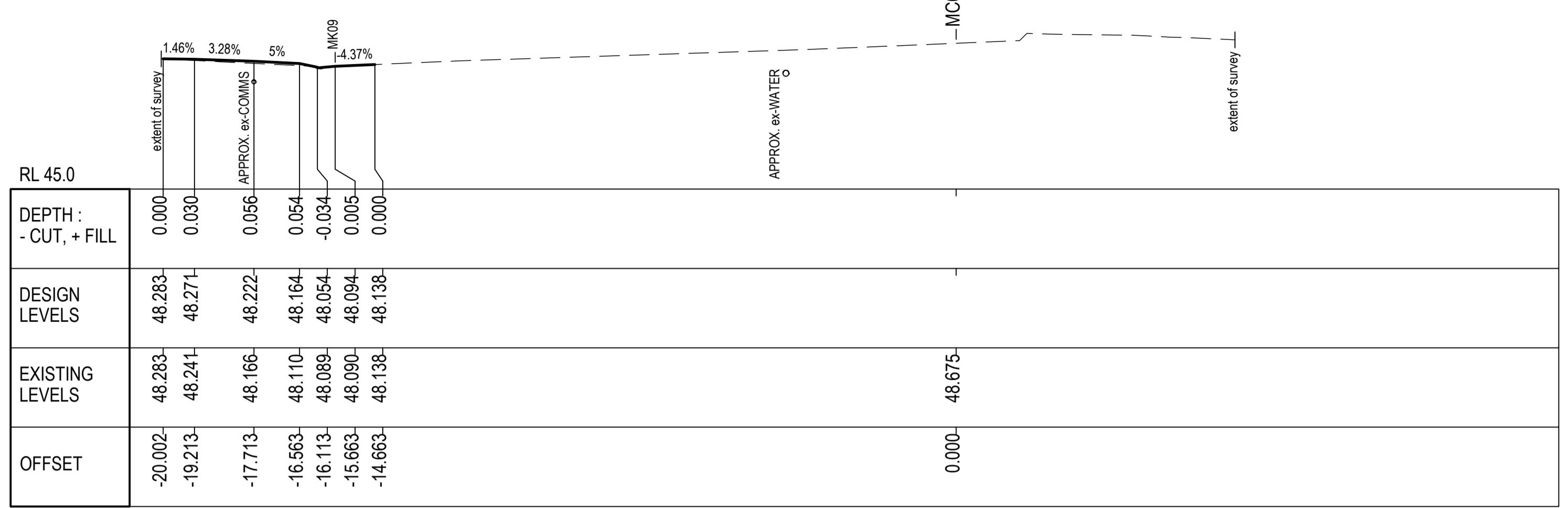
CH 260



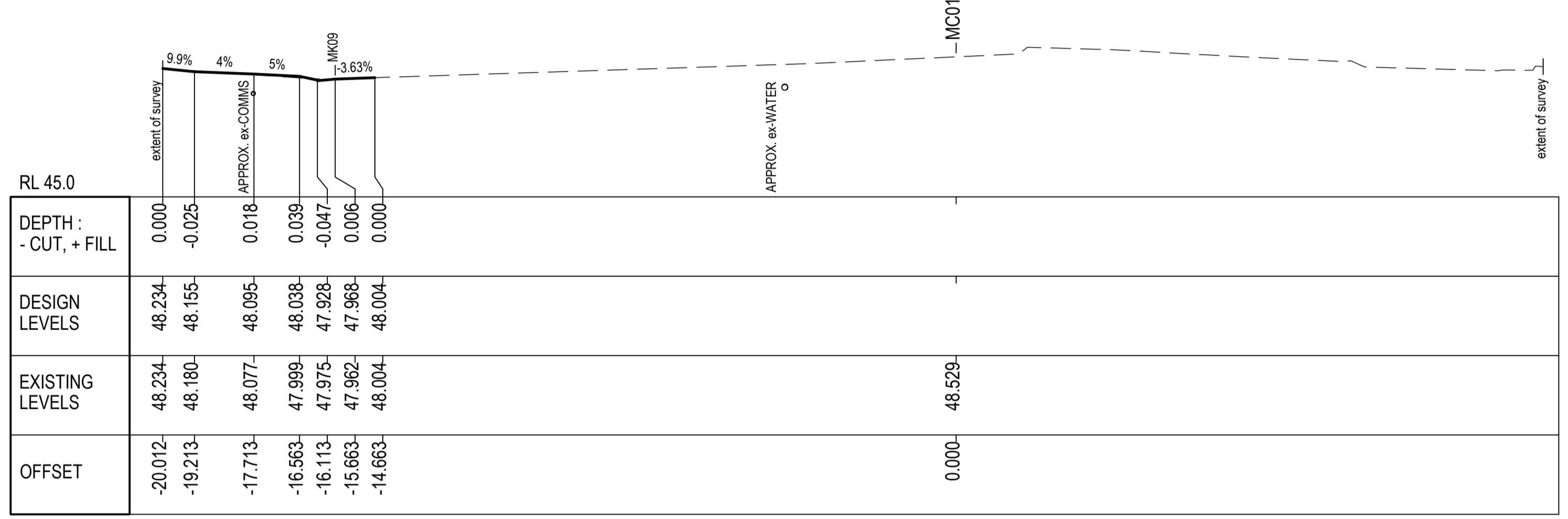
CT CH 248.099



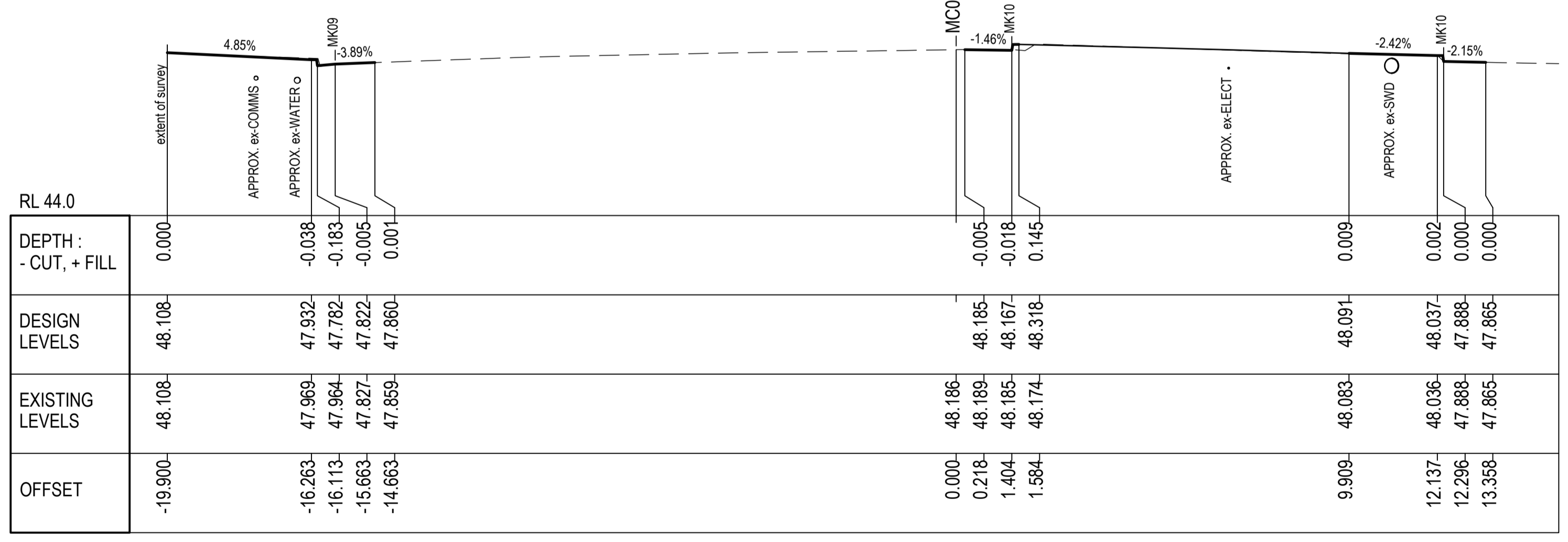
CH 240



CH 300

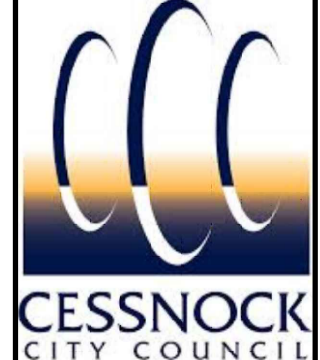
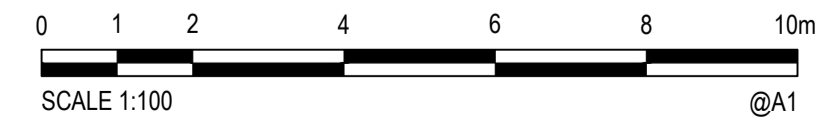


CH 293.863



CH 280

ROAD CROSS SECTIONS MC01
SCALE 1:100



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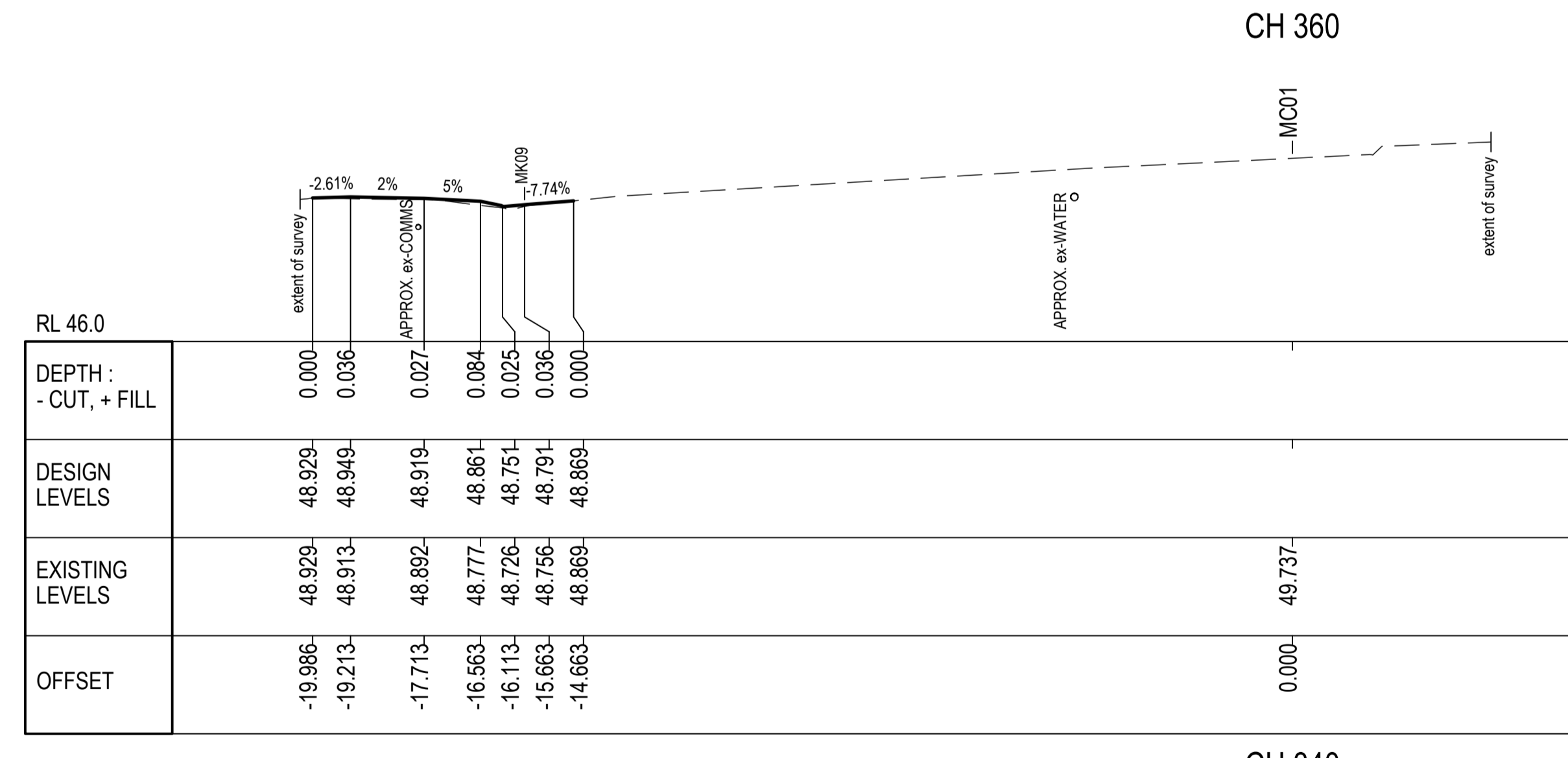
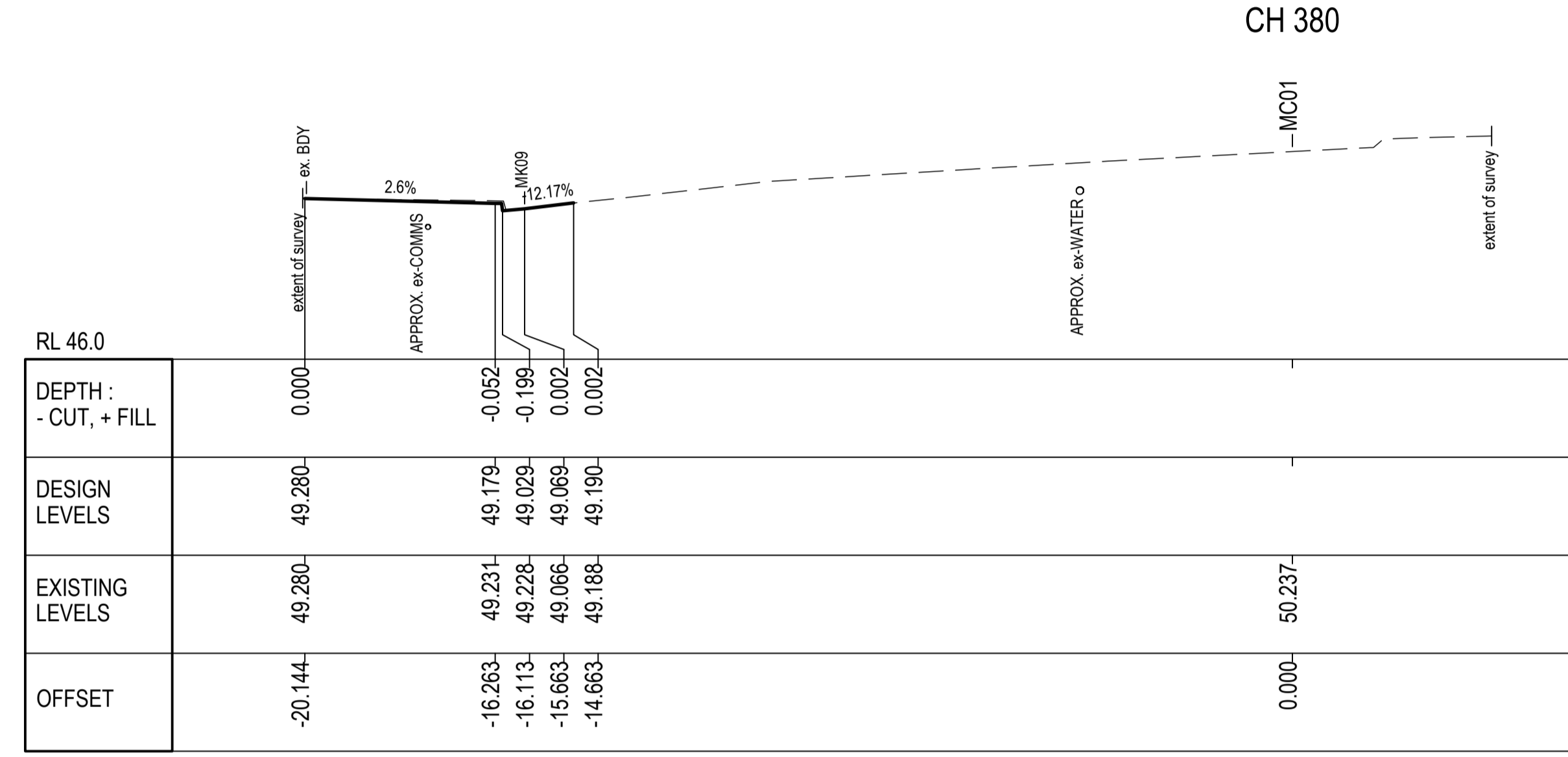
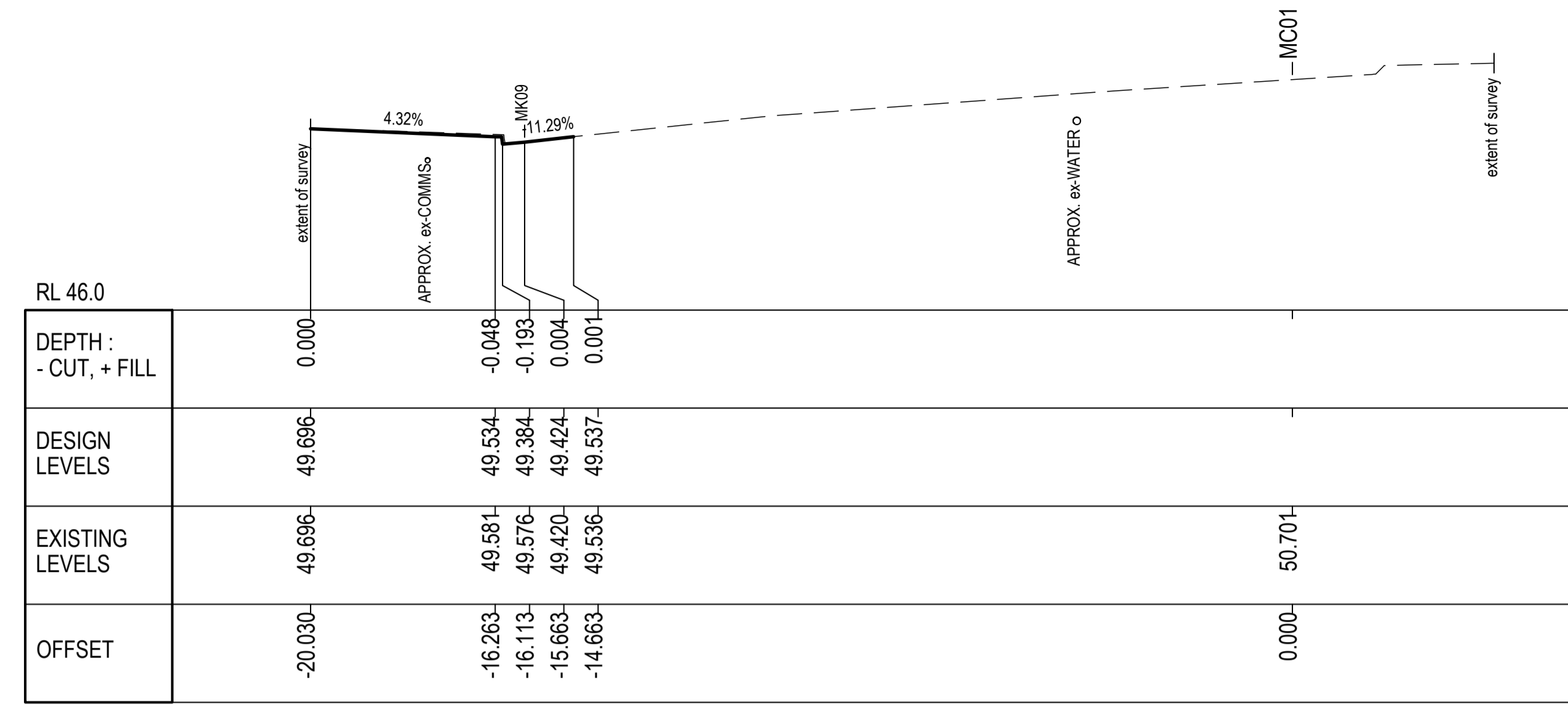
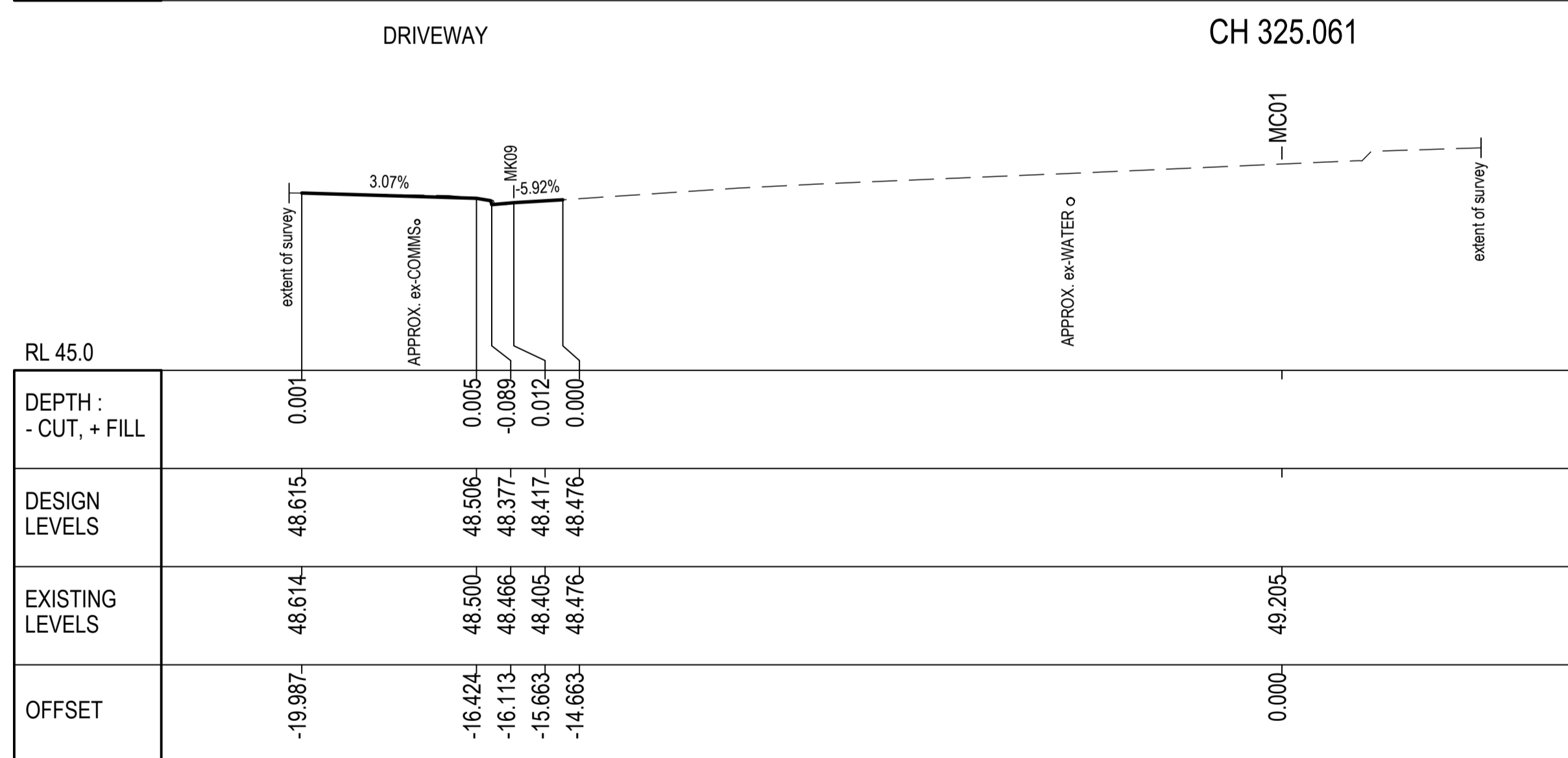
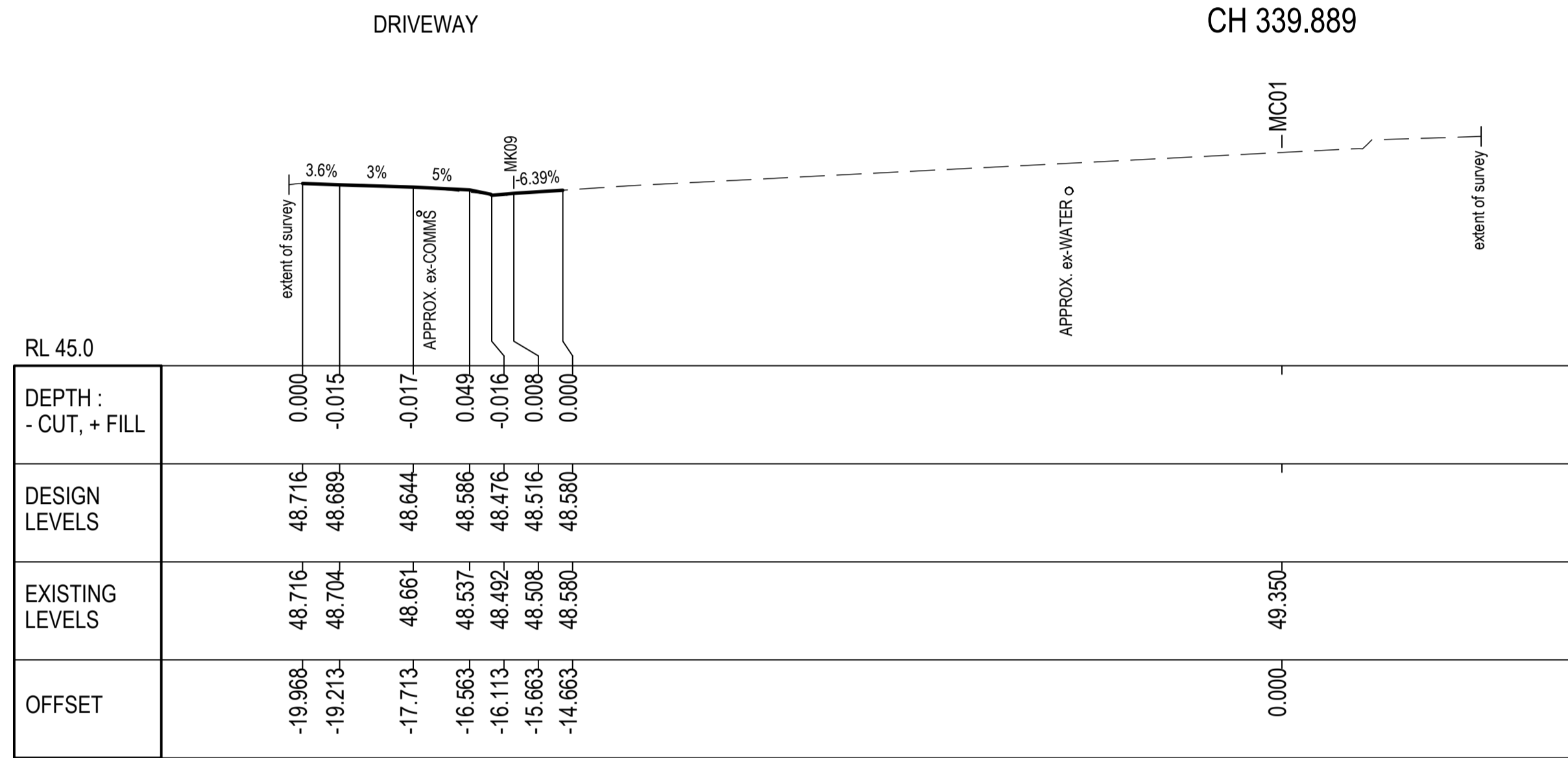
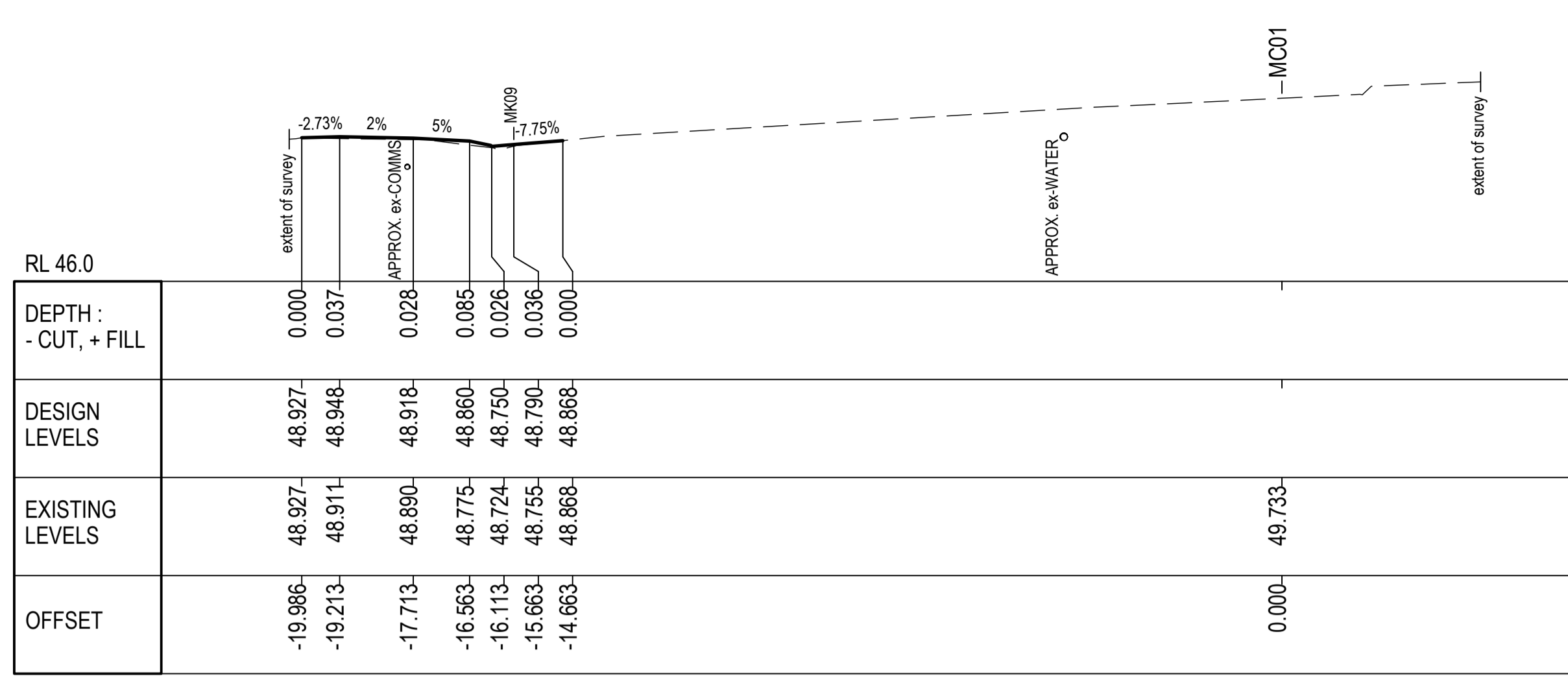
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Checked DSA	Date MAY 21
Designed DSA/SJB	Date MAY 21
Verified SJB	Date MAY 21
Approved SJB	Date JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3
	ALLWORTH ST TO HAMPDEN ST
	KURRI KURRI
Title	ROAD CROSS SECTIONS SHEET 1

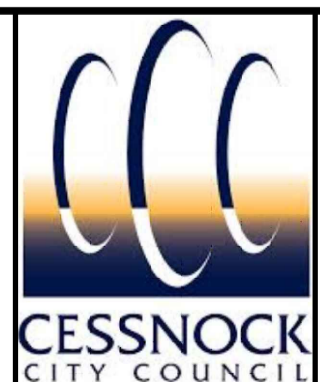
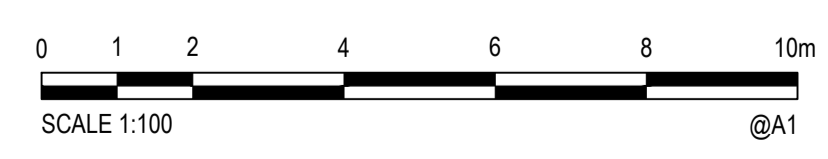
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Drawing Number			Revision
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Rev.	Date	Description	Des.	Verif.	Appd.
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ROAD CROSS SECTIONS MC01
SCALE 1:100



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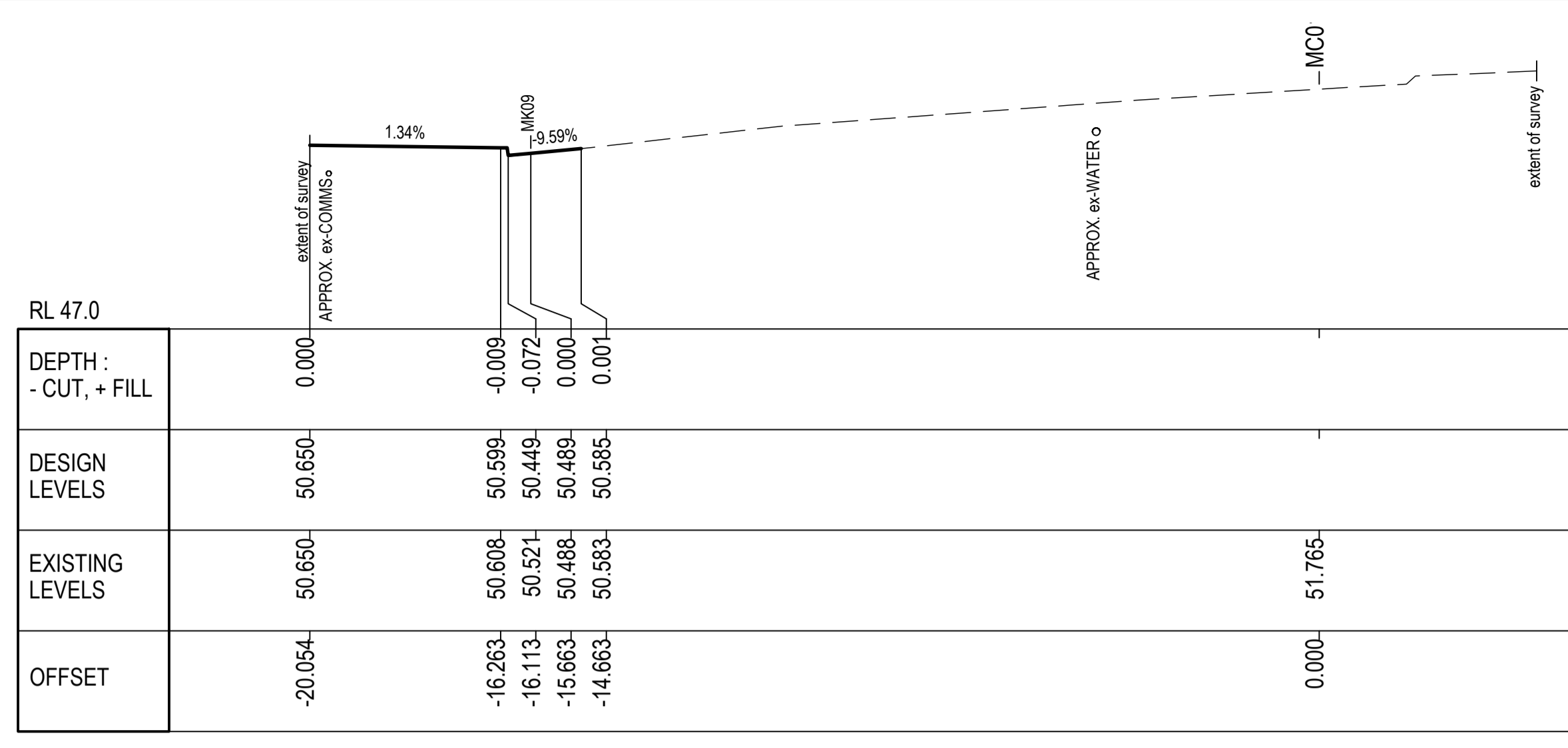
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Checked DSA	Date MAY 21
Designed DSA/SJB	Date MAY 21
Verified SJB	Date MAY 21
Approved <i>J. Balgove</i>	Date JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3 ALL WORTH ST TO HAMPDEN ST KURRI KURRI
Title	ROAD CROSS SECTIONS SHEET 2

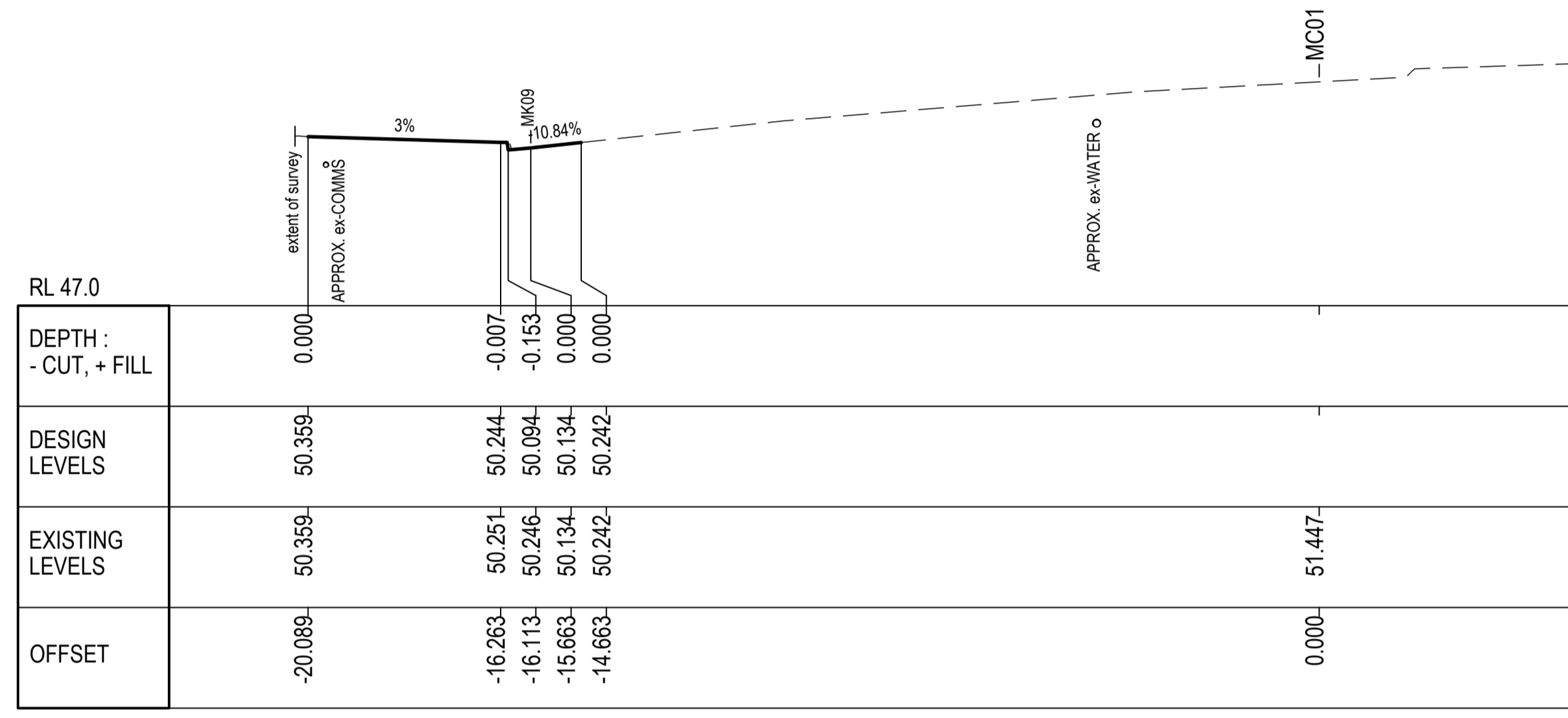
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Drawing Number			Revision
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Rev.	Date	Description	Des.	Verif.	Appd.
A	28/06/21	ISSUED FOR CONSTRUCTION	DSA	SJB	SJB

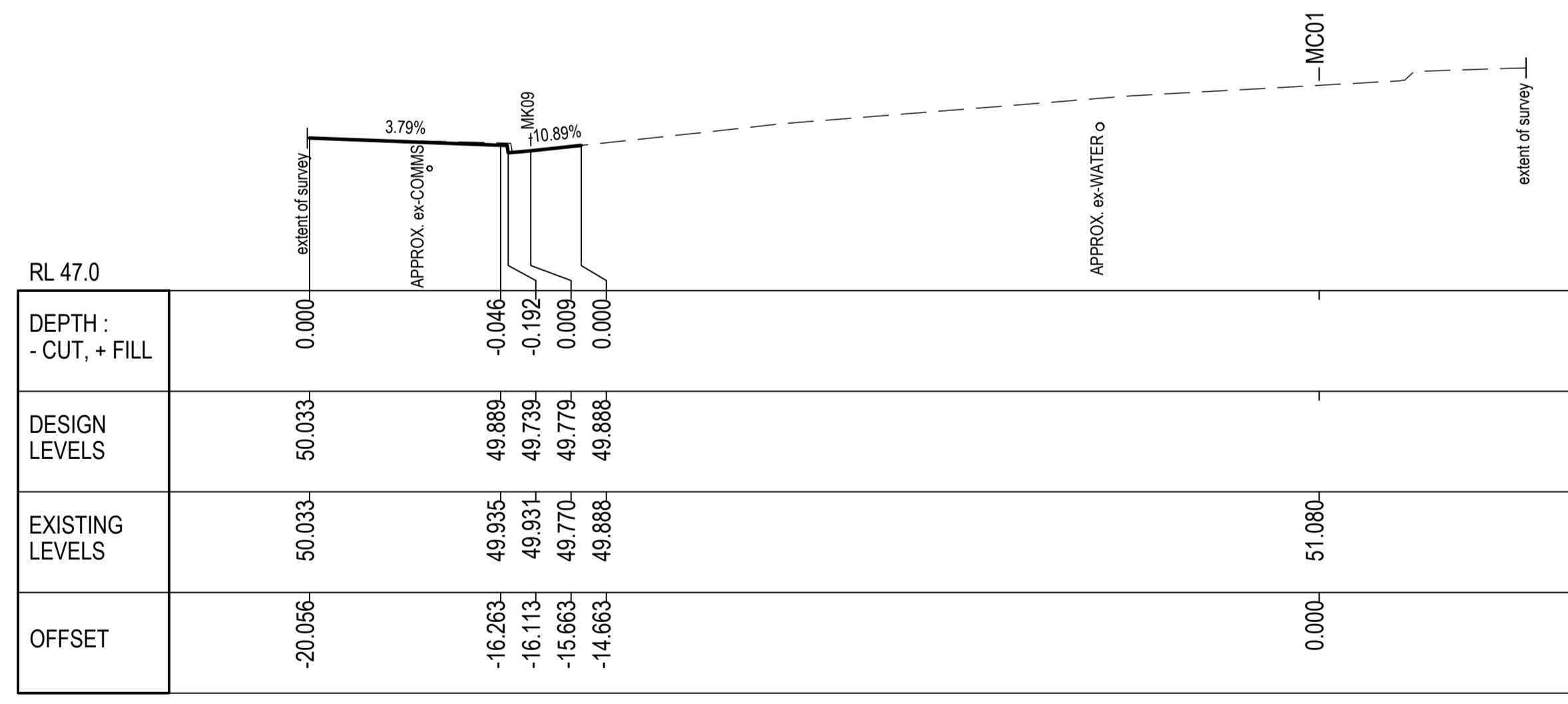
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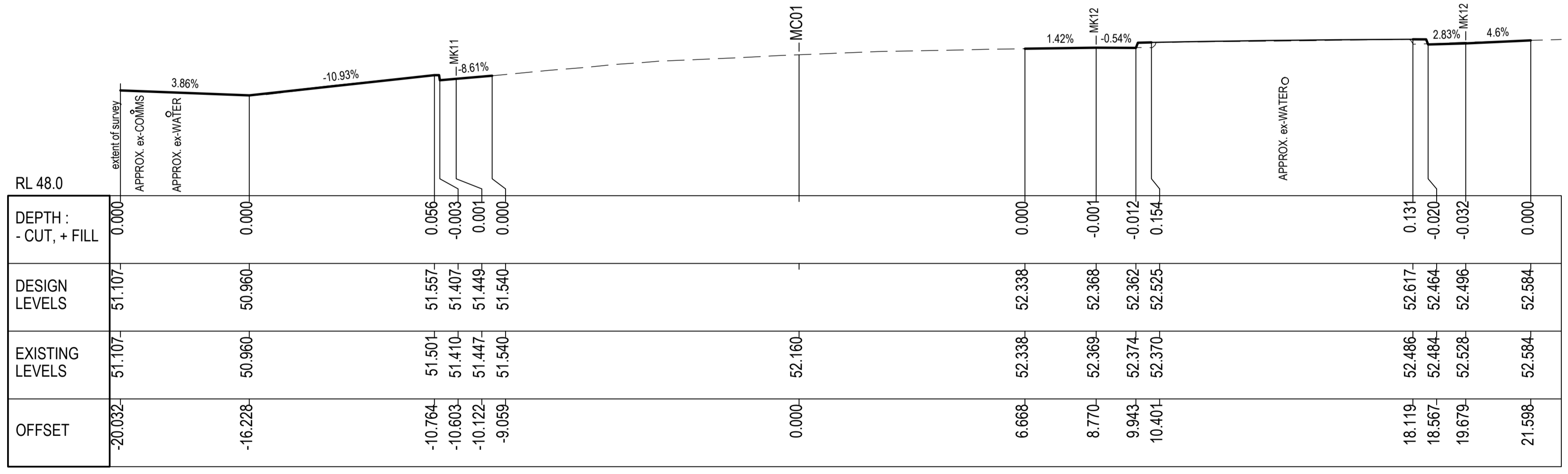
CH 440



CH 420

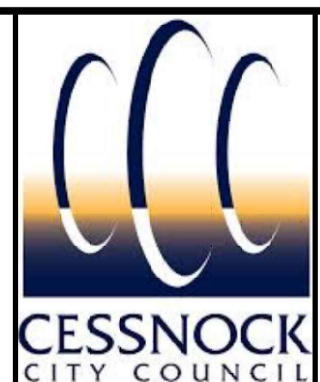
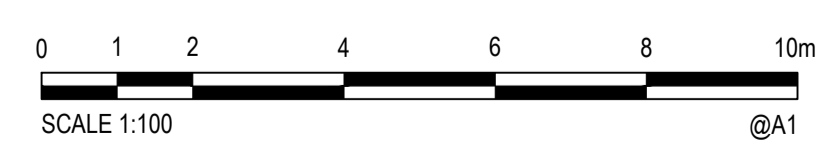


CH 400



CH 460

ROAD CROSS SECTIONS MC01
SCALE 1:100



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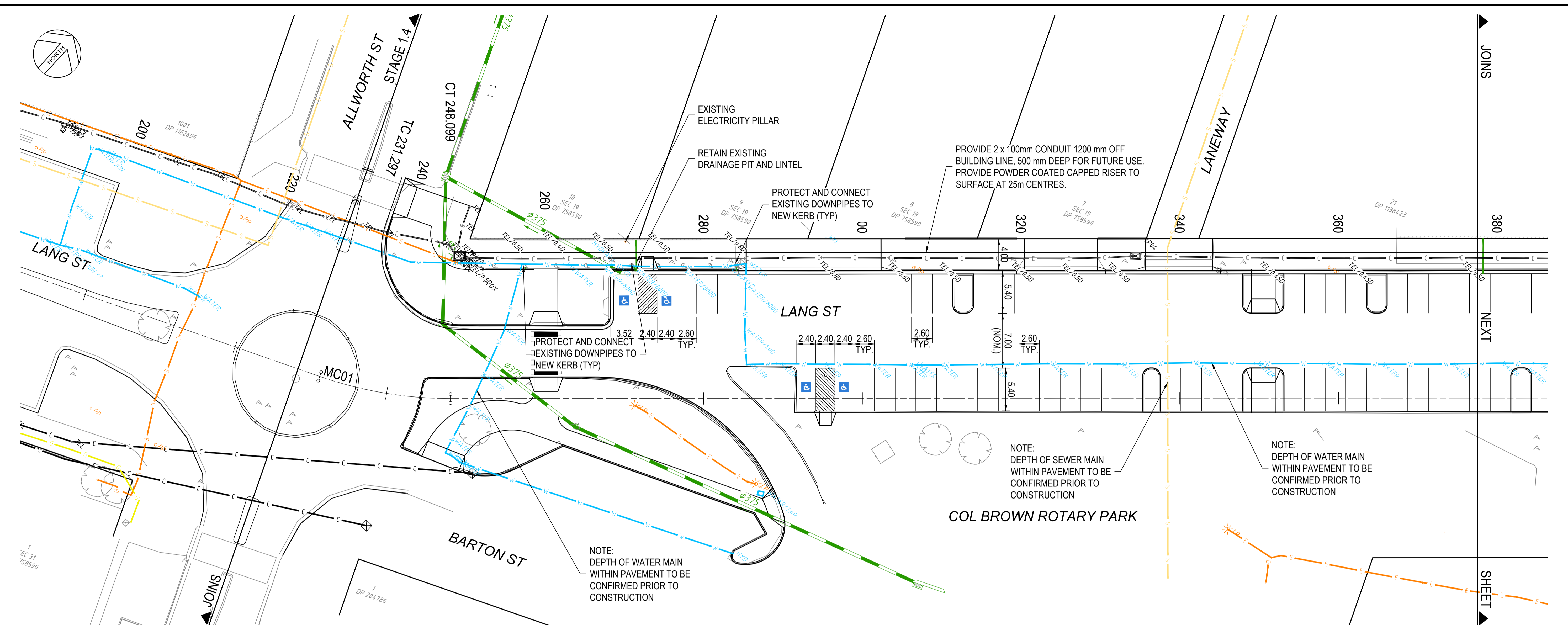
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Checked DSA	Date MAY 21
Designed DSA/SJB	Date MAY 21
Verified SJB	Date MAY 21
Approved SJB	Date JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3 ALLWORTH ST TO HAMPDEN ST KURRI KURRI
Title	ROAD CROSS SECTIONS SHEET 3

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FOR CONSTRUCTION			
Datum	Register	Scale	Size
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Drawing Number			Revision
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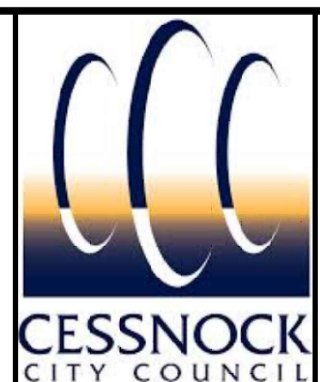
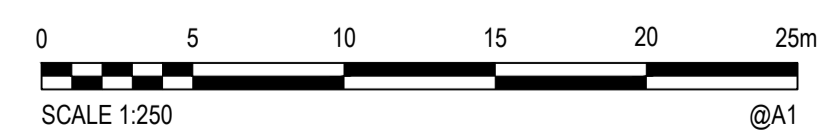
Rev.	Date	Description	Des.	Verif.	Appd.
A	28/06/21	ISSUED FOR CONSTRUCTION	DSA	SJB	SJB

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PLAN
SCALE 1:250

LEGEND	
	EXISTING COMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING GAS
	EXISTING ELECTRICITY
	EXISTING SEWER
	INDICATIVE UTILITY LOCATION AND DEPTH FROM SURFACE FROM ELECTRONIC LOCATION
	WATER MAIN DEPTH



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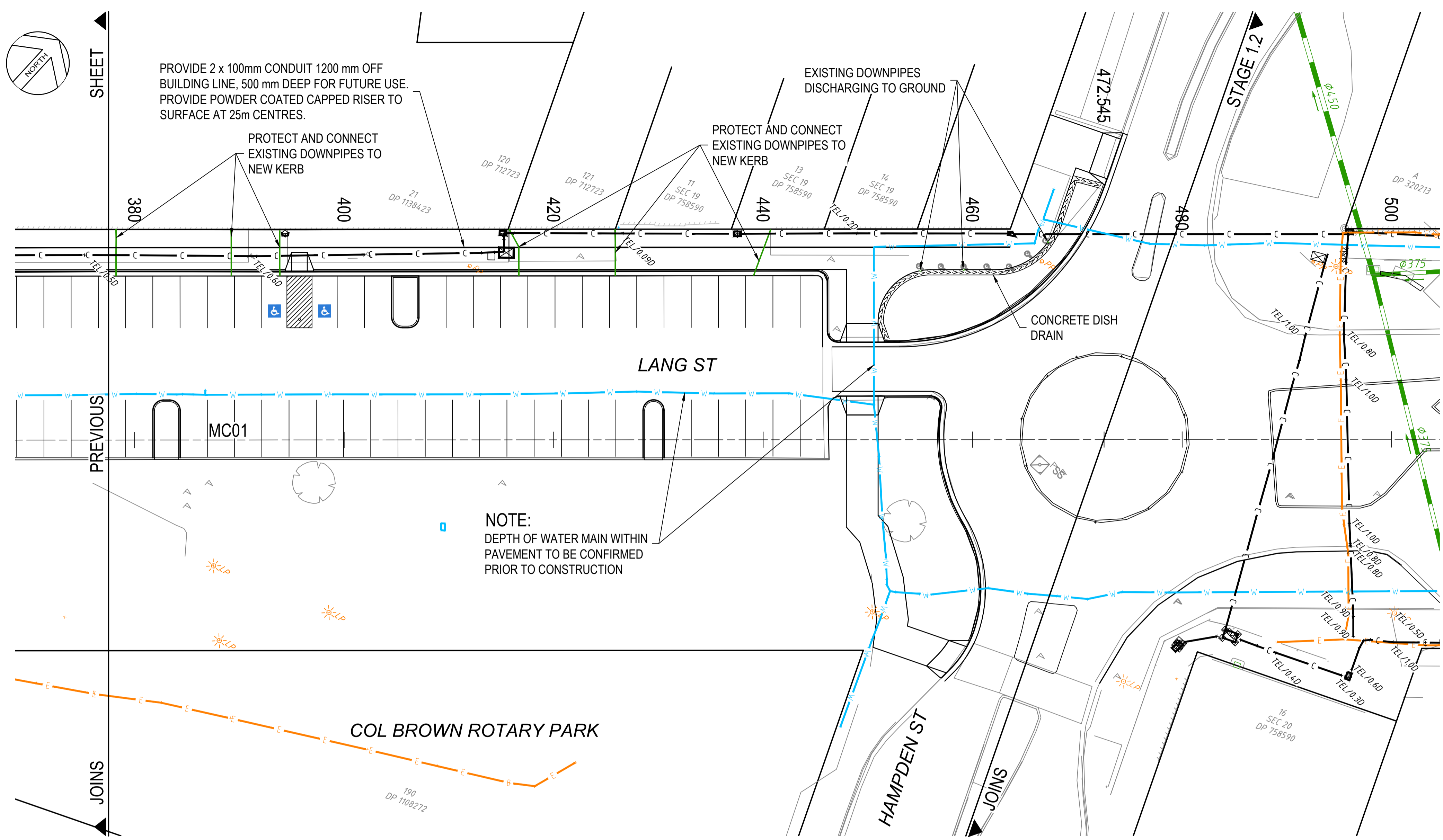
Drawn LDB	Date MAY 21
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Verified SJB	Date MAY 21
Approved <i>J. Balgore</i>	Date JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3
	ALLWORTH ST TO HAMPDEN ST
	KURRI KURRI
Title	UTILITY SERVICES PLAN SHEET 1

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FOR CONSTRUCTION			
Datum	Register	Scale	Size
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Drawing Number			Revision
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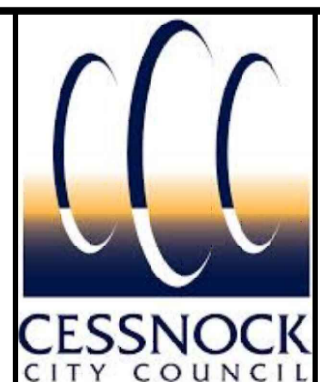
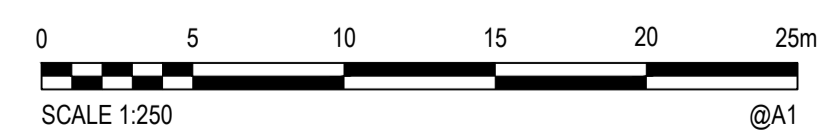
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A	28/06/21	ISSUED FOR CONSTRUCTION	DSA	SJB	SJB

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PLAN
SCALE 1:250

LEGEND	
	EXISTING COMMUNICATIONS
	EXISTING WATER MAIN
	EXISTING GAS
	EXISTING ELECTRICITY
	EXISTING SEWER
	INDICATIVE UTILITY LOCATION AND DEPTH FROM SURFACE FROM ELECTRONIC LOCATION
	WATER MAIN DEPTH



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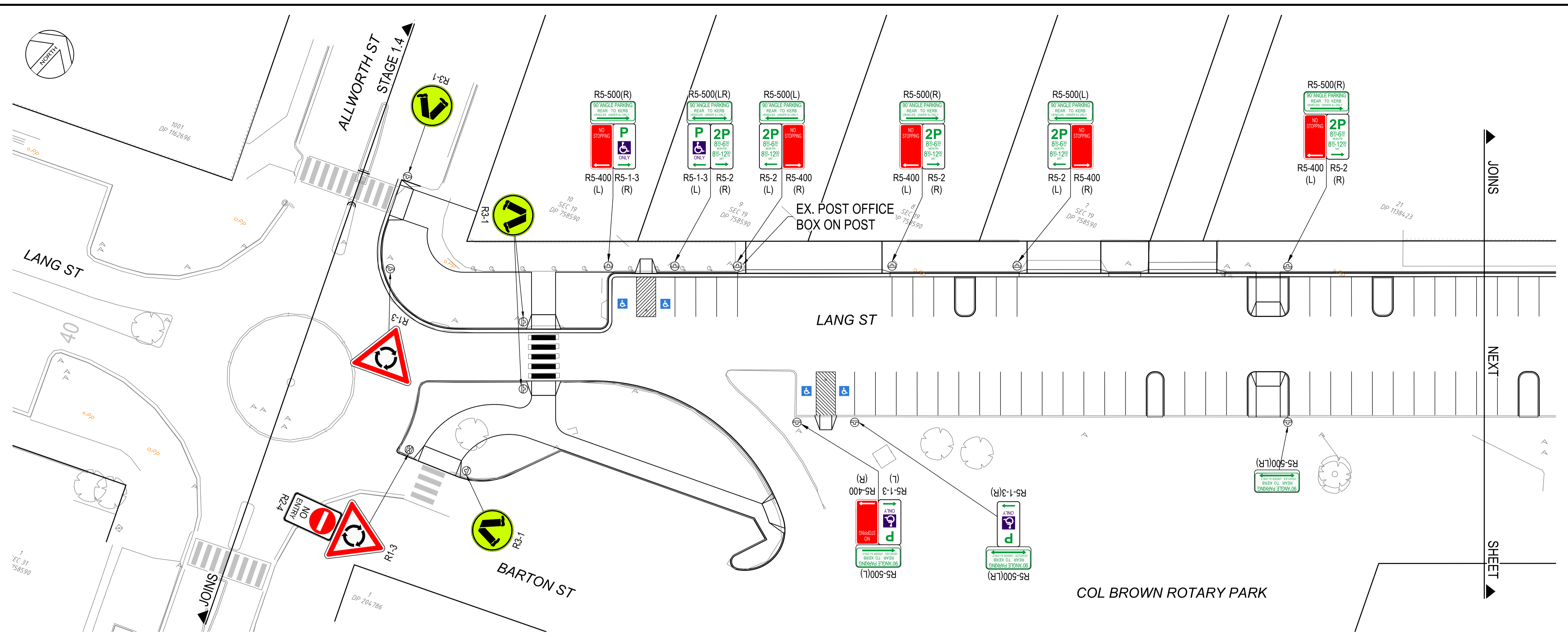
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Approved		Date	JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3
	ALLWORTH ST TO HAMPDEN ST
	KURRI KURRI
Title	UTILITY SERVICES PLAN
	SHEET 2

Status	FOR CONSTRUCTION				
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Revision					A

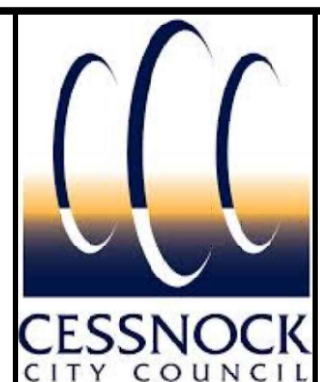
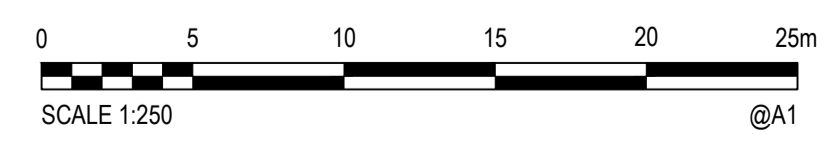
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PLAN
SCALE 1:250

LEGEND	
PROPOSED	EXISTING
KERB AND GUTTER	TREE
KERB ONLY, BARRIER TYPE SM	POWER POLE
DRIVEWAY LAYBACK	STREET SIGN
KERB RAMP	PEDESTRIAN CROSSING
PC PEDESTRIAN CROSSING	
TB GIVE WAY	
DISABLED PARKING	



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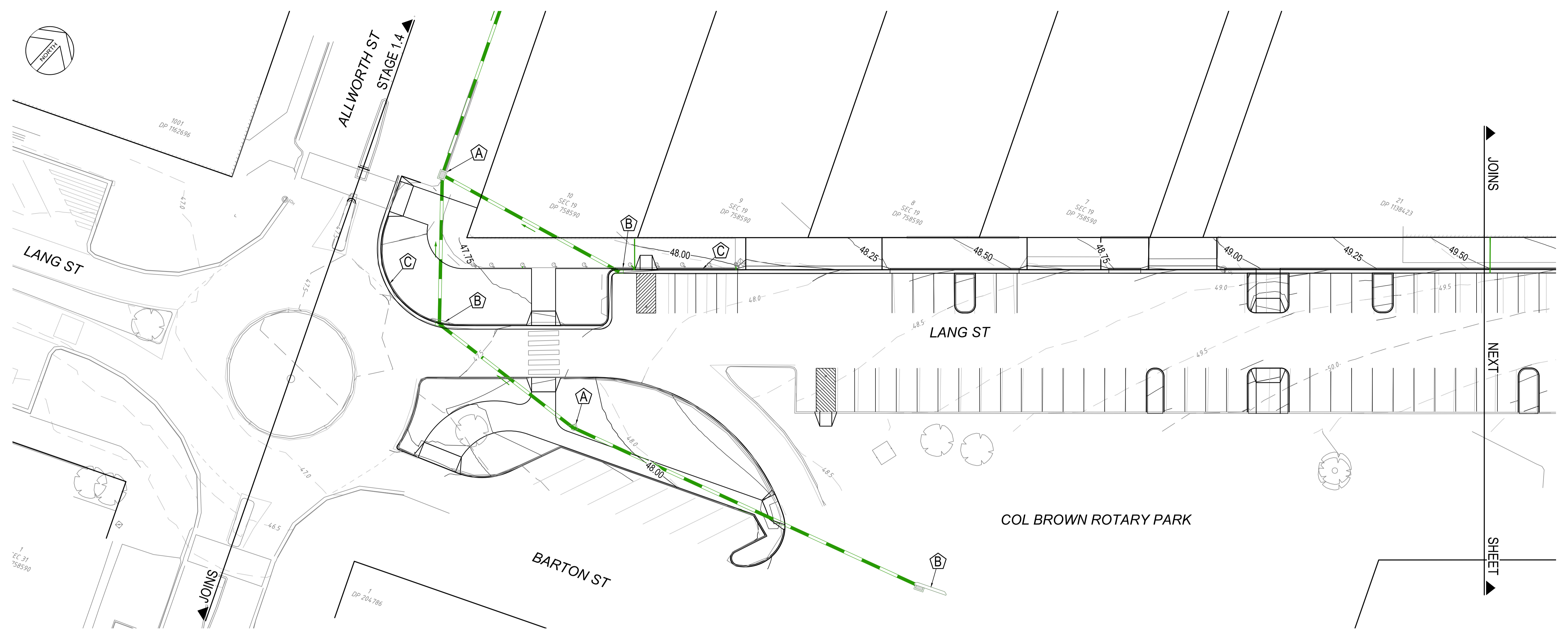
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DSA/SJB	MAY 21
Verified	Date
SJB	MAY 21
Approved	Date
	JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3
	ALLWORTH ST TO HAMPDEN ST
	KURRI KURRI
Title	SIGNS AND LINEMARKING PLAN
	SHEET 1

Status			
FOR CONSTRUCTION			
Datum	Register	Scale	Size
AHD	-	1:250	A1
Drawing Number			Revision
80521014-CI-240			A

Rev.	Date	Description	Des.	Verif.	Appd.
A	28/06/21	ISSUED FOR CONSTRUCTION	DSA	SJB	SJB

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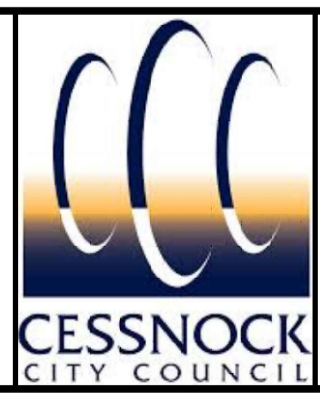
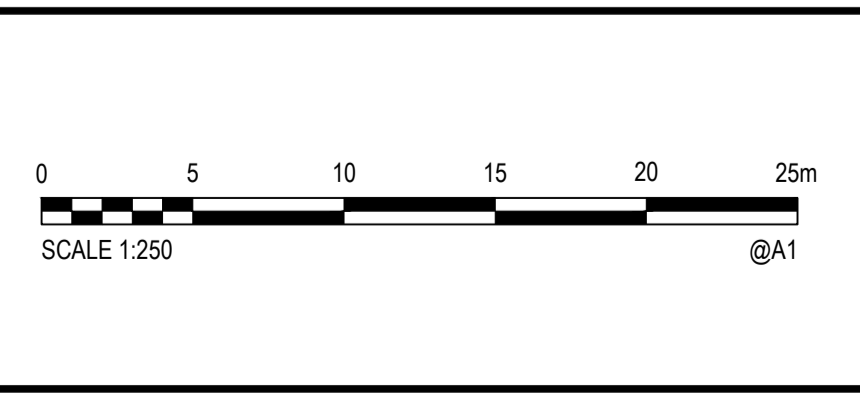


PLAN
SCALE 1:250

LEGEND		
	TEMPORARY SURFACE INLET SEDIMENT TRAP OR GROSS POLLUTANT TRAP	
	SEDIMENT BARRIER FOR KERB INLET PITS	
	GRAVEL FILLED SAUSAGE	

REFER DETAILS ON DWG CI-247

Rev.	Date	Description	Des.	Verif.	Appd.
A	28/06/21	ISSUED FOR CONSTRUCTION	DSA	SJB	SJB



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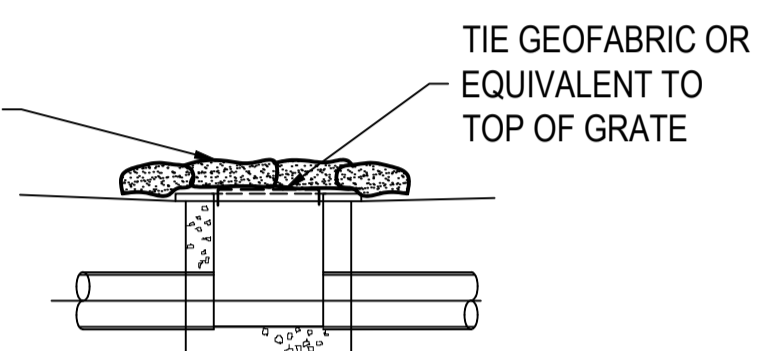
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Checked	DSA	Date	MAY 21
Designed	DSA/SJB	Date	MAY 21
Verified	SJB	Date	MAY 21
Approved		Date	JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3
	ALLWORTH ST TO HAMPDEN ST
	KURRI KURRI
Title	EROSION AND SEDIMENT CONTROL PLAN
	SHEET 1

Status	FOR CONSTRUCTION						
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Drawing Number	80521014-CI-245			Revision	A		

CTB File: Gp_Cardno_Full.cad DEVICE NAME: AutoCAD PDF (General Documentation).pc3
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 XREFs: x80521014.dwg VPeris: x80521014 Civil & Survey: x80521014 Legend
 CAD File: \\cardno\opg\ba\AU\NSW\Infrastructure\Projects\80521014_Lang_st_upgrade_kurri\kurri\Drawings\Build\Civil\2026\sect\80521014-CI-247 [A] ESCO.dwg

PLACE SANDBAGS
AROUND PERIMETER
OF GRATE TO LIMIT
SILTATION ON LID

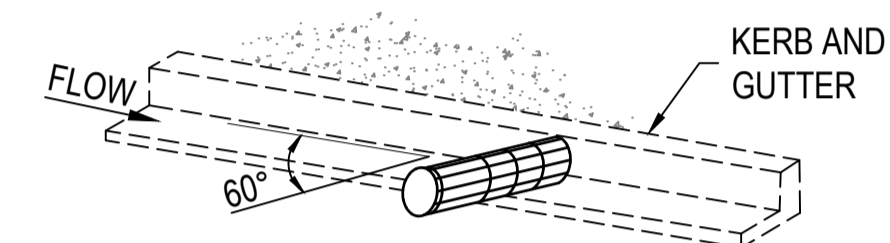


**TEMPORARY SURFACE INLET SEDIMENT TRAP
OR GROSS POLLUTANT TRAP**

WHEN USED AS A GROSS POLLUTANT TRAP
STRUCTURE SHALL BE REGULARLY DESILTED

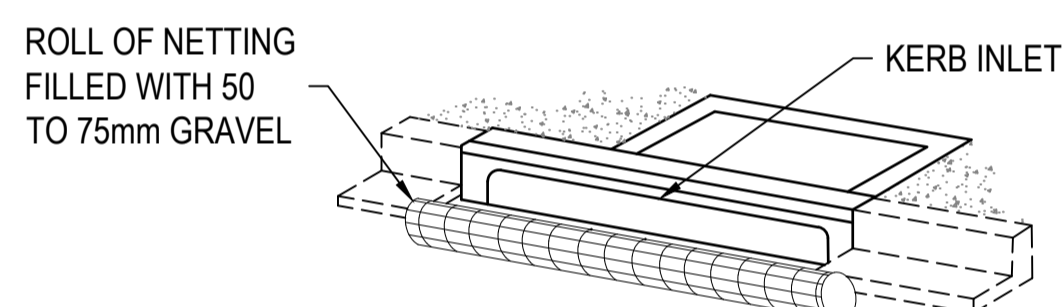


NOTE:
SEDIMENT BARRIERS TO BE USED ONLY WHERE
ROAD WIDTHS PERMITS AND WHERE SAFETY TO
PASSING TRAFFIC IS NOT AFFECTED



**GRAVEL FILLED SAUSAGE
TEMPORARY GUTTER GROSS POLLUTANT/SEDIMENT TRAP**

COARSE GRAVEL ROLLED IN NETTING MATERIAL TOTALING
200mm HIGH & PLACED HARD AGAINST FACE OF KERB



NOTE:
SEDIMENT BARRIERS TO BE USED ONLY WHERE
ROAD WIDTHS PERMITS AND WHERE SAFETY TO
PASSING TRAFFIC IS NOT AFFECTED




GEOFABRIC AND GRAVEL TO EXTEND 250mm
MIN. PAST THE END OF THE LINTEL OPENING
TO ENSURE SEAL WITH KERB. COVER
GRATES WITH GEOFABRIC AND FASTEN WIRE

SEDIMENT BARRIER FOR KERB INLET PITS

NTS



LEGEND

-  TEMPORARY SURFACE INLET SEDIMENT TRAP OR GROSS POLLUTANT TRAP
-  SEDIMENT BARRIER FOR KERB INLET PITS
-  GRAVEL FILLED SAUSAGE

Rev.	Date	Description	Des.	Verif.	Appd.
A	28/06/21	ISSUED FOR CONSTRUCTION	DSA	SJB	SJB



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Cardno
Shaping the Future

Cardno (NSW/ACT) Pty Ltd | ABN 95 001 145 035
34/205-207 Albany Street North
Geosford, NSW 2250
Tel: 02 4323 2558 Fax: 02 4324 3251
Web: www.cardno.com.au

Drawn	LDB	Date	MAY 21
Checked	DSA	Date	MAY 21
Designed	DSA/SJB	Date	MAY 21
Verified	SJB	Date	MAY 21
Approved	<i>J. Balgore</i>	Date	JUN 21

Client	CESSNOCK CITY COUNCIL
Project	LANG ST UPGRADE - STAGE 1.3 ALL WORTH ST TO HAMPDEN ST KURRI KURRI
Title	EROSION AND SEDIMENT DETAILS

Status				FOR CONSTRUCTION			
Datum	AHD	Register	-	Scale	N/A	Size	A1
Drawing Number							Revision
80521014-CI-247							A