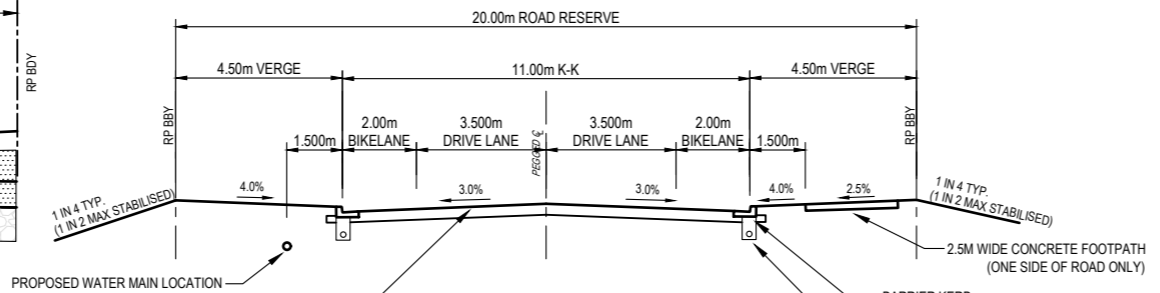
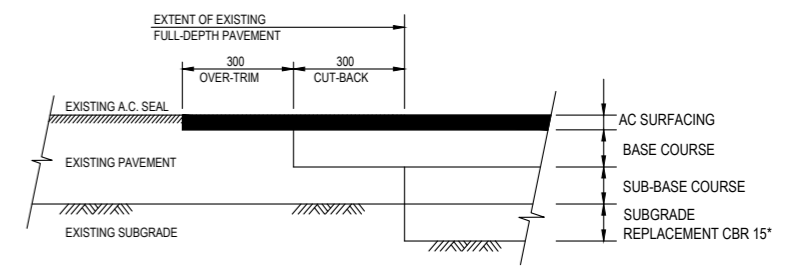


**TYPICAL ROAD BOX-OUT SECTION**  
FOR ALL ROADS WITH TWO-WAY CROSSFALL UNLESS NOTED OTHERWISE  
SCALE 1:100

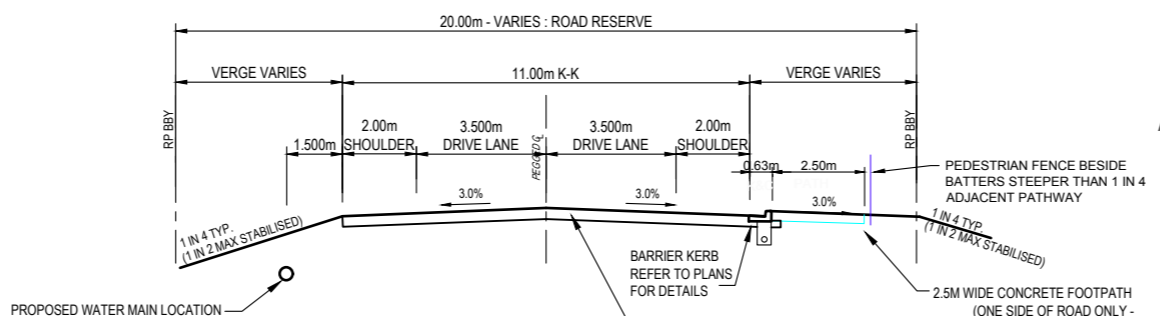


**TYPICAL SECTION COLLECTOR STREET**  
DEVELOPMENT ENTRANCE ROAD - 00 TO END  
SCALE 1:100

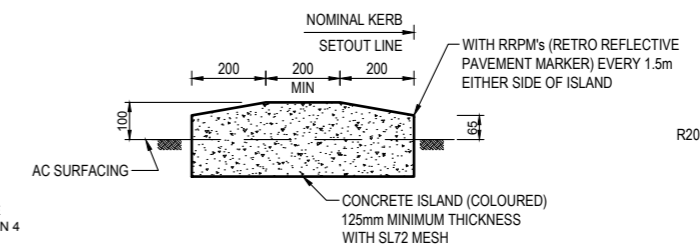


**PAVEMENT CUT-BACK DETAILS**  
SCALE 1:100

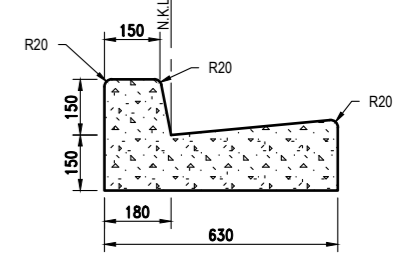
\* SUBJECT TO GEOTECHNICAL INVESTIGATION OF SUBGRADE.



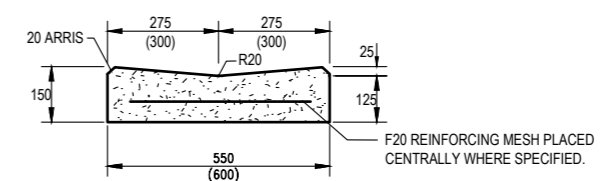
**TYPICAL SECTION COLLECTOR ROAD**  
NORTH BOAMBEE ROAD CH 00 TO CH612  
REFER TO PLANS 220 AND 221 FOR CROSS SECTIONS  
SCALE 1:100



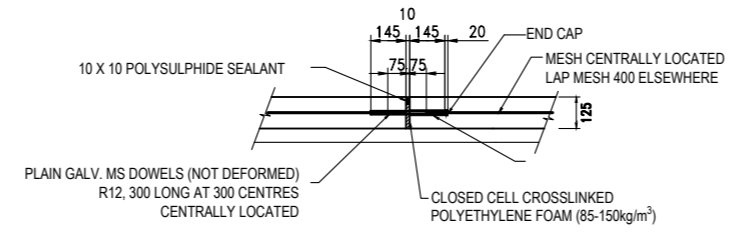
**MEDIAN / ISLAND DETAILS**  
SCALE 1:10



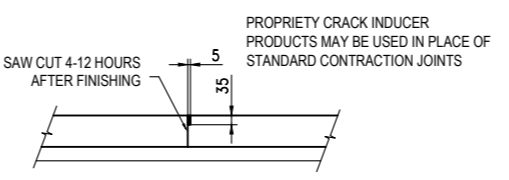
**TYPICAL SECTION SA - KERB AND GUTTER**  
REFER TO NORTHERN RIVERS LOCAL GOVT ST DRG R-03  
SCALE 1:10



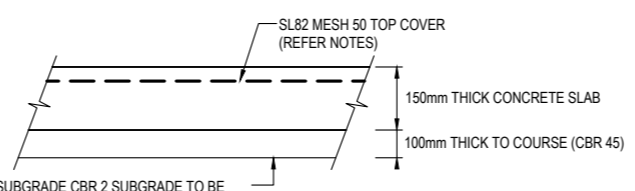
**STANDARD SPOON DRAIN (SSD)**  
SCALE 1:10  
REFER TO IPWEA STD DWG



**EXPANSION JOINT DETAIL - E.J.**  
N.T.S.



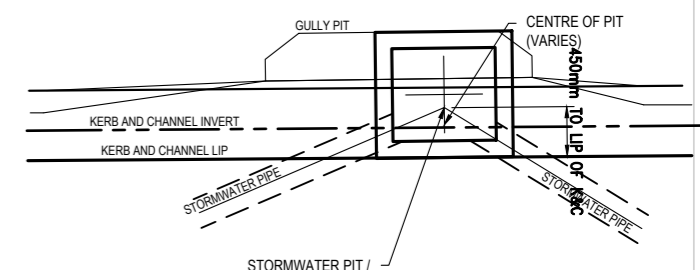
**TRANSVERSE SAWN JOINT DETAIL - S.J.**  
N.T.S.



ASSUMED SUBGRADE CBR 2 SUBGRADE TO BE CONFIRMED BY GEOTECHNICAL ENGINEER AND PAVEMENT DESIGN TO BE APPROVED BY COUNCIL PRIOR TO CONSTRUCTION.

**TYPICAL CONCRETE PAVEMENT SECTION**  
N.T.S.

**DRAFT - FOR DISCUSSION ONLY**



**STORMWATER PIT SETOUT POINT**  
N.T.S.

**NOTES:**

- KERB PROFILES ARE TO BE IN ACCORDANCE WITH NORTHERN RIVERS LOCAL GOVERNMENT STD DRG R-03.
- SUB SURFACE DRAINAGE TO BE AS PER NORTHERN RIVERS LOCAL GOVERNMENT STD DRG R-09.
- FOR CONCRETE FOOTPATH DETAILS REFER TO NORTHERN RIVERS LOCAL GOVERNMENT STD DRG R-07.
- VERGE PROFILE TO BE IN ACCORDANCE WITH NRC LOCAL GOVERNMENT STANDARD DRAWING R-01.

**PAVEMENT NOTES:**

- THE COMPACTED DEPTHS OF PAVEMENT SHOWN ON THE DRAWINGS ARE DESIGN DEPTHS ONLY AND MAY BE VARIED AFTER SUBGRADE TESTS ARE TAKEN. PAVEMENT DEPTHS SHALL BE SUBJECT TO APPROVAL BY THE SUPERINTENDENT.
- PAVEMENT MATERIAL SHALL CONFORM TO COFFS HARBOUR COUNCIL AND AUS SPEC SPECIFICATION.

REFER TO PLAN 200 AND 201 FOR LAYOUT DETAILS.  
REFER TO STRUCTURAL BRIDGE PROFILE AND DETAILS

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
DP DESCRIPTION: LOT 1 DP1268665

**CONCRETE NOTES**

- GENERAL**  
WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT AUSTRALIAN AND LOCAL AUTHORITY STANDARD DRAWINGS AND SPECIFICATIONS UNLESS NOTED OTHERWISE.  
CONCRETE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING STANDARDS AND CODES:  
GENERAL - AS 3600 CONCRETE CODE.  
STRENGTH AND TESTING - AS 1012.  
CURRENT PERIODS AND METHODS - AS 3600 AND AS 3799 RESPECTIVELY.  
SLIP RESISTANCE - AS/NZS 3661.1 SLIP RESISTANCE OF PEDESTRIAN SURFACES.  
ALL SURFACE FINISHES TO BE CONFIRMED WITH SUPERINTENDENT.  
WHERE A BROOM FINISH IS SPECIFIED, THE SWEEP DIRECTION SHALL BE APPLIED TRANSVERSELY TO THE DIRECTION OF TRAVEL.  
PAVEMENTS SHOULD NOT BE TRAFFICKED FOR A MINIMUM OF 7 DAYS OF PLACEMENT.
  - COLOURING**  
UNLESS NOTED OTHERWISE, INTEGRAL (MIXED THROUGH) COLOURING SHALL BE USED FOR PAVEMENTS.  
TRAFFIC ISLANDS, MEDIANS, PARKING AND PEDESTRIAN AREAS MAY HAVE COLOUR WORKED INTO SURFACE BY THE 'DRY SHAKE' METHOD.  
PATTERN AND COLOUR TO BE DETERMINED BY CLIENT IN CONSULTATION WITH COUNCIL.
  - REINFORCING**  
REINFORCING SHALL COMPLY TO AS/NZS 4671 AND SHALL BE FREE FROM MATERIAL WHICH MAY AFFECT BOND WITH THE CONCRETE.  
REINFORCING SHALL BE GENERALLY SUPPORTED ON BAR CHAIRS IN A REGULAR GRID SECURED TO SUBBASE IN SUCH A WAY AS TO RESIST DISPLACEMENT DURING CONCRETE POURING.  
FABRIC:  
SHALL BE IN THE FORM OF A SINGLE SHEET AND SUPPORTED ON BAR CHAIRS IN A REGULAR GRID NOT EXCEEDING 1m. LAP SO THAT THE TWO OUTERMOST WIRES ON ONE SHEET OVERLAPS THE OUTMOST WIRE ON THE SHEET BEING LAPPED.
- COVER:**  
TOP COVER 40mm FOR CONCRETE BASES < 150mm  
50mm FOR CONCRETE BASES > 150mm  
JOINTS 75mm FROM TRANSVERSE CONTRACTION AND ISOLATION JOINTS  
40 TO 80mm FROM LONGITUDINAL JOINTS
- DOWELS:**  
ALL DOWELS SHALL BE GRADE 250R STEEL BARS, 450MM LONG AND PLACED AT 300MM CENTRES. THE INSERTION OF DOWELS DURING THE PLACING OF CONCRETE NOT ACCEPTABLE. TO PERMIT JOINT MOVEMENT, DOWELS SHALL BE:  
- SAWN, NOT CROPPED  
- STRAIGHT, SMOOTH AND FREE OF BURRS  
- EFFECTIVELY DE-BONDED OVER AT LEAST HALF OF THEIR LENGTH  
- PLACED ORTHOGONAL TO THE JOINT DIRECTION AND PARALLEL TO THE PAVEMENT SURFACE
- | CONCRETE SLAB THICKNESS | DIAMETER |
|-------------------------|----------|
| 125 - 140               | 20MM     |
| 141 - 160               | 24MM     |
| 161 - 190               | 28MM     |
| 191 - 220               | 33MM     |
| 221 - 250               | 36MM     |
- DRIVEWAYS**  
CONCRETE DRIVEWAYS SHALL BE IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATION AND DRAWINGS. CONSTRUCTION JOINTS AND INTERFACES JOINTS SHALL BE AIRBLASTED CLEAN PRIOR TO APPLICATION OF SEALANT.  
ABELFLEX OR APPROVED EQUIVALENT IS REQUIRED AT ALL LOCATIONS WHERE CONCRETE PAVEMENTS MEETS KERBING AND MANHOLES.  
WHERE A CONSTRUCTION JOINT IS REQUIRED, DOWEL JOINTS SHALL BE SUBSTITUTED FOR SAWN JOINTS.  
APPLY SMALL TROWEL FINISH (5mm) TO EDGE OF CONCRETE PAVEMENTS AT ALL A.C. INTERFACE LOCATIONS.

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04.02.22
B	UPDATED DETAILS, FOR APPROVAL	CH	DC	15/06/2022
C	UPDATED DETAILS, FOR APPROVAL	CH	DC	15/07/2022
D	UPDATED DETAILS, FOR APPROVAL	ET	DC	26/07/2022
E	UPDATED DETAILS, FOR APPROVAL	ET	DC	18/08/2022
F	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023

NAME: DAVID CUMMINGS  
NER: 2383439

Approved by, for and on behalf of Cummings Group Pty Ltd

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CUMMINGS GROUP PTY LTD: PROJECT MANAGERS & CONSULTING ENGINEERS

GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
PH: 5641 1100, E: CUMMINGSGROUP@ICLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

TITLE: TYPICAL SECTIONS AND DETAILS  
PROPOSED ROAD UPGRADE

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE: NORTH BOAMBEE ROAD, COFFS HARBOUR COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL  
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:1000	OF

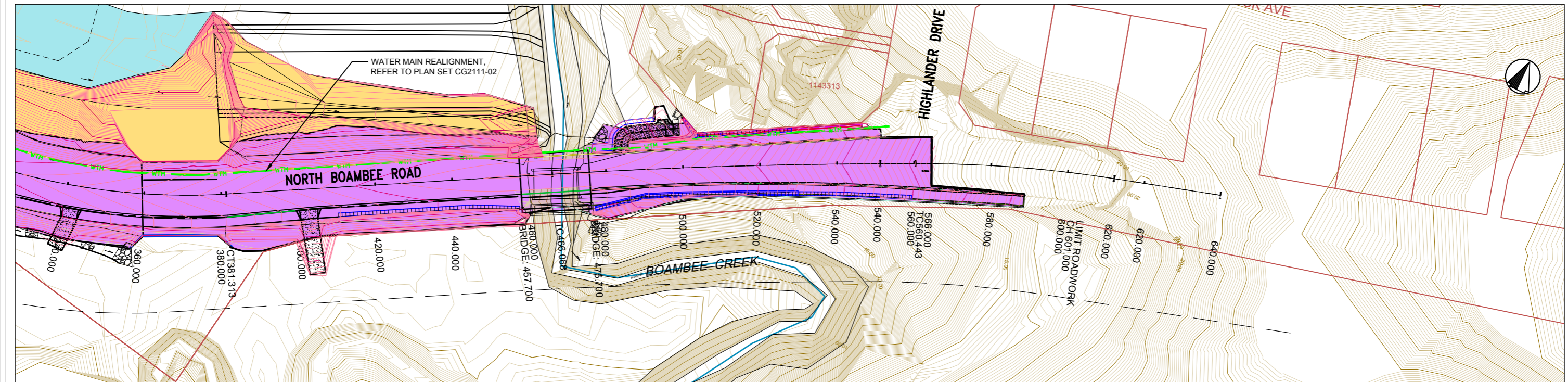
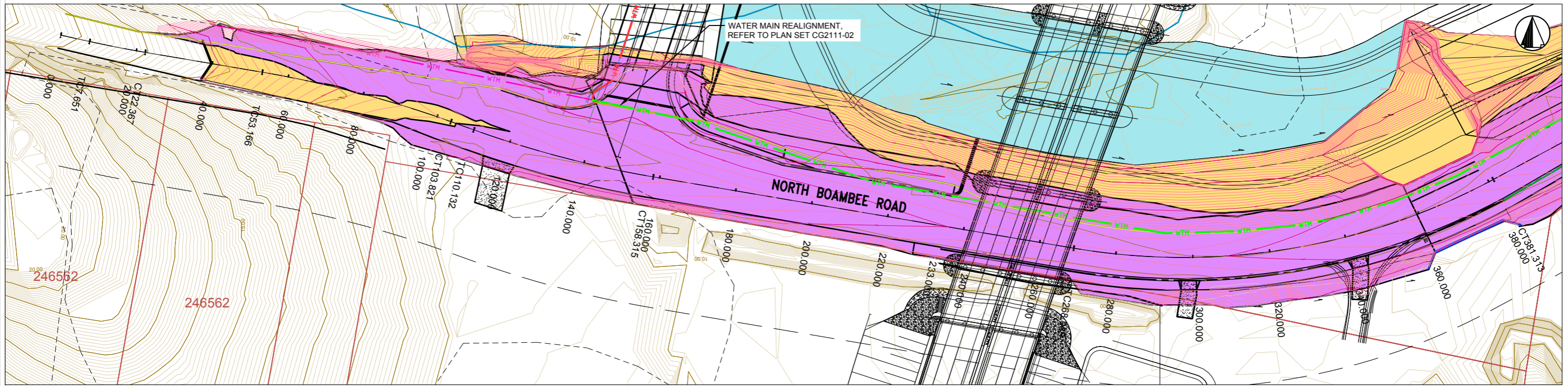
PROJECT NO: CG2111-01  
DRAWING NO: 003  
REV: F



ROAD SETOUT STRING ONE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	507616.294	6647114.516	14.194	102°26'07.01"			
TC	7.651	507623.766	6647112.868	13.724	102°26'07.01"			
IP 2	15.009	507630.953	6647111.283	13.296		R = -300.000	14.716	2°48'37.85"
CT	20.000	507635.877	6647110.458	13.024	100°04'36.51"			
CT	22.367	507638.208	6647110.053	12.900	99°37'29.16"			
CT	40.000	507655.593	6647107.105	12.076	99°37'29.16"			
TC	53.166	507668.574	6647104.903	11.578	99°37'29.16"			
CT	60.000	507675.298	6647103.681	11.358	100°59'20.95"			
IP 3	78.493	507693.610	6647100.658	10.897		R = 287.000	50.655	10°06'45.28"
CT	80.000	507694.782	6647099.187	10.868	104°58'54.80"			
CT	100.000	507713.907	6647093.348	10.608	108°58'28.65"			
CT	103.821	507717.511	6647092.082	10.584	109°44'14.45"			
TC	110.132	507723.452	6647089.951	10.556	109°44'14.45"			
CT	120.000	507732.798	6647086.787	10.513	107°39'58.39"			
IP 4	134.223	507746.187	6647081.794	10.450		R = -273.000	48.183	10°06'44.73"
CT	140.000	507752.060	6647081.421	10.424	103°28'07.41"			
CT	158.315	507770.001	6647077.755	10.343	99°37'29.72"			
CT	160.000	507771.663	6647077.473	10.336	99°37'29.72"			
CT	180.000	507791.381	6647074.130	10.247	99°37'29.72"			
CT	200.000	507811.100	6647070.786	10.159	99°37'29.72"			
CT	220.000	507830.818	6647067.442	10.070	99°37'29.72"			
CT	240.000	507850.536	6647064.098	9.985	99°37'29.72"			
CT	260.000	507870.255	6647060.754	9.935	99°37'29.72"			
TC	268.988	507879.116	6647059.251	9.927	99°37'29.72"			
CT	280.000	507890.025	6647057.763	9.930	95°54'48.64"			
CT	300.000	507909.994	6647056.876	9.969	89°10'22.19"			
CT	320.000	507929.929	6647058.339	10.052	82°25'55.75"			
IP 5	325.150	507936.595	6647049.503	10.081		R = -170.000	112.325	37°51'26.26"
CT	340.000	507949.554	6647062.132	10.180	75°41'29.30"			
CT	360.000	507968.599	6647068.202	10.352	68°57'02.85"			
CT	380.000	507986.799	6647076.465	10.568	62°12'36.40"			
CT	381.313	507987.958	6647077.082	10.584	61°46'03.46"			
CT	400.000	508004.422	6647085.922	10.828	61°46'03.46"			
CT	420.000	508022.043	6647095.383	11.047	61°46'03.46"			
CT	440.000	508039.664	6647104.844	11.175	61°46'03.46"			
CT	460.000	508057.285	6647114.305	11.210	61°46'03.46"			
TC	466.068	508062.631	6647117.175	11.210	61°46'03.46"			
CT	480.000	508074.936	6647123.708	11.218	62°17'59.24"			
CT	500.000	508092.705	6647132.887	11.458	63°03'49.44"			
IP 6	508.641	508100.149	6647137.319	11.666		R = 1500.000	85.145	3°15'08.32"
CT	520.000	508110.595	6647141.828	12.034	63°49'39.64"			
CT	540.000	508128.603	6647150.529	12.938	64°35'29.83"			
CT	551.213	508138.749	6647155.303	13.544	65°01'11.77"			
CT	560.000	508146.714	6647159.013	14.087	65°01'11.77"			
TC	560.443	508147.116	6647159.201	14.115	65°01'11.77"			
CT	580.000	508165.081	6647166.921	15.546	68°28'03.78"			
IP 7	586.269	508170.575	6647170.130	16.068		R = 325.000	51.651	9°06'21.04"
CT	600.000	508183.899	6647173.685	17.318	71°59'37.00"			
CT	612.094	508195.468	6647177.209	18.493	74°07'32.82"			
CT	620.000	508203.072	6647179.371	18.747	74°07'32.82"			
CT	640.000	508222.310	6647184.842	19.074	74°07'32.82"			
CT	660.000	508241.547	6647190.312	19.474	74°07'32.82"			
IP 8	673.199	508254.243	6647193.923	19.943	74°07'32.82"			

ROAD SETOUT STRING TWO								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	507654.744	6647102.093	11.924	101°58'50.38"			
IP 2	5.007	507659.641	6647101.054	11.717				
IP 3	10.009	507664.533	6647100.010	11.524				
IP 4	13.174	507667.654	6647099.481	11.413				
IP 5	14.973	507669.427	6647099.174	11.351				
IP 6	16.200	507670.634	6647098.962	11.310		R = 281.500	2.452	0°29'56.73"
CC	17.426	507671.840	6647098.738	11.270	100°29'24.18"			
IP 7	18.652	507673.046	6647098.515	11.231		R = 281.500	2.452	0°29'56.73"
CC	19.878	507674.249	6647098.282	11.193	100°59'20.91"			
CC	20.000	507674.369	6647098.258	11.189	101°00'50.54"			
IP 8	21.104	507675.453	6647098.048	11.156		R = 281.500	2.452	0°29'56.73"
CC	22.330	507676.654	6647097.804	11.119	101°29'17.64"			
IP 9	23.556	507677.856	6647097.559	11.084		R = 281.500	2.452	0°29'56.73"
CC	24.782	507679.055	6647097.305	11.049	101°59'14.37"			
IP 10	26.008	507680.254	6647097.050	11.015		R = 281.500	2.452	0°29'56.73"
CC	27.234	507681.451	6647096.785	10.983	102°29'11.11"			
IP 11	28.460	507682.648	6647096.520	10.951		R = 281.500	2.452	0°29'56.73"
CC	29.686	507683.843	6647096.244	10.920	102°59'07.84"			
IP 12	30.912	507685.038	6647095.969	10.890		R = 281.500	2.452	0°29'56.73"
CC	32.138	507686.230	6647095.683	10.860	103°29'04.57"			
IP 13	33.364	507687.422	6647095.397	10.832		R = 281.500	2.452	0°29'56.73"
CC	34.590	507688.612	6647095.101	10.805	103°59'01.30"			
IP 14	35.816	507689.802	6647094.805	10.778		R = 281.500	2.452	0°29'56.73"
CC	37.042	507690.989	6647094.498	10.752	104°28'58.03"			
IP 15	38.268	507692.176	6647094.191	10.728		R = 281.500	2.452	0°29'56.73"
CC	39.494	507693.360	6647093.874	10.703	104°58'54.77"			
IP 16	40.720	507694.545	6647093.557	10.681		R = 281.500	2.452	0°29'56.73"
CC	41.946	507695.726	6647093.230	10.659	105°28'51.50"			
IP 17	43.173	507696.908	6647092.903	10.637		R = 281.500	2.452	0°29'56.73"
CC	44.399	507698.087	6647092.565	10.617	105°58'48.23"			
IP 18	45.625	507699.265	6647092.228	10.598		R = 281.500	2.452	0°29'56.73"
CC	46.851	507700.441	6647091.880	10.579	106°28'44.96"			
IP 19	48.077	507701.617	6647091.532	10.562		R = 281.500	2.452	0°29'56.73"

CC	49.303	507702.789	6647091.174	10.545	106°58'41.69"			
IP 20	50.529	507703.962	6647090.816	10.529		R = 281.500	2.452	0°29'56.73"
CC	51.755	507705.131	6647090.448	10.514	107°28'38.42"			
IP 21	52.981	507706.301	6647090.080	10.500		R = 281.500	2.452	0°29'56.73"
CC	54.207	507707.467	6647089.701	10.487	107°58'35.16"			
IP 22	55.433	507708.633	6647089.323	10.475		R = 281.500	2.452	0°29'56.73"
CC	56.659	507709.796	6647088.935	10.463	108°28'31.89"			
IP 23	57.885	507710.959	6647088.546	10.453		R = 281.500	2.452	0°29'56.73"
CC	59.111	507712.118	6647088.147	10.443	108°58'28.62"			
IP 24	60.337	507713.278	6647087.749	10.435		R = 281.500	2.452	0°29'56.73"
CC	61.563	507714.434	6647087.340	10.427	109°28'25.35"			
IP 25	62.789	507715.594	6647086.935	10.419		R = 281.500	1.295	0°15'49.23"
CT	62.859	507715.654	6647086.905	10.419	109°44'14.58"			
IP 26	63.169	507721.594	6647084.774	10.391				
IP 27	71.586	507723.872	6647083.968	10.380				
IP 28	72.861	507725.076	6647083.548	10.375		R = -278.500	2.550	0°31'28.87"
CC	74.136	507726.284	6647083.139	10.369	108°42'56.22"			
IP 29	75.411	507727.491	6647082.729	10.364		R = -278.500	2.550	0°31'28.87"
CC	76.686	507728.703	6647082.331	10.358	108°11'27.35"			
IP 30	77.962	507729.914	6647081.933	10.353		R = -278.500	2.550	0°31'28.87"
CC	79.237	507731.129	6647081.546	10.347	107°39'58.47"			
IP 31	80.512	507732.344	6647081.159	10.342		R = -278.500	2.550	0°31'28.87"
CC	81.787	507733.563	6647080.783	10.336	107°08'29.60"			
IP 32	83.062	507734.781	6647080.408	10.331		R = -278.500	2.550	0°31'28.87"
CC	84.337	507736.003	6647080.043	10.325	106°37'00.73"			
IP 33	85.613							



**BULK EARTHWORKS QUANTITIES**

EARTHWORKS CUT (FROM ROAD PAVEMENT) #	3,425 m <sup>3</sup> (PART RE-USE)
EARTHWORKS CUT (BESIDE ROAD)	3,736 m <sup>3</sup>
EARTHWORKS FILL ** (ROAD FORMATION)	3,115 m <sup>3</sup>
BALANCE * (NOT INCL ROAD EXCAVATIONS)	626 m <sup>3</sup> #

- EARTHWORKS CUT
- EARTHWORKS FILL \*
- TNSW EARTHWORKS CUT

\* NOTE: BULKING COMPACTION FACTOR YET TO BE APPLIED TO QUANTITIES. REFER TO DIRECTION FROM GEOTECHNICAL ENGINEER UPON FURTHER SOIL TESTING DURING THE CONSTRUCTION PHASE  
 \*\* ONLY MATERIAL ACHIEVING CBR 10 CONSISTENCY CAN BE USED IN ROAD FORMATION AREA:  
 # BALANCE OF FILL MATERIAL TO BE STOCKPILED ON SITE AS DIRECTED

REFER TO THE ROAD PAVEMENT DESIGN DETAILS ON PLAN 003 AND 210, AND THE GEOTECHNICAL REPORT BY REGIONAL GEOTECHNICAL SOLUTIONS DATED JANUARY 2022

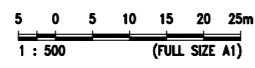
**EARTHWORKS NOTES**

1. REFER DRAWING 001 FOR GENERAL NOTES.
2. ALL DESIGN LEVELS AND CONTOURS SHOWN ARE FINISHED SURFACE LEVELS. THE CONSTRUCTOR MUST ALLOW FOR 150mm TOPSOIL RESPREAD ON VERGE AND GRASSED AREAS
3. ALL DIMENSIONS ON THE JOB ARE IN METRES UNLESS SHOWN OTHERWISE.
4. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, FINISHED SURFACE CONTOURS FOR ALLOTMENTS MAY BE ADJUSTED BY A WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION (REFER JOB SPECIFICATION).
5. ALL STRUCTURAL FILL MATERIAL PLACED SHALL BE COMPACTED TO THE FOLLOWING MINIMUM DENSITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION : 65% DENSITY INDEX FOR NON-COHESIVE MATERIAL : OR AS NOTED IN THE GEOTECHNICAL REPORT : 98% FOR COHESIVE MATERIALS : OR AS NOTED IN THE GEOTECHNICAL REPORT
6. THE CONTRACTOR IS TO ENSURE THAT NO PONDING OCCURS DURING CONSTRUCTION AND IN THE FINAL PROFILE.
7. SITE EARTHWORKS SHALL GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS 3798-2007.
8. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING EARTHWORKS AS DEFINED IN AS 3798-2007 SHALL BE REMOVED & REPLACED. THE SUPERINTENDENT SHALL BE NOTIFIED PRIOR TO EXCAVATING ANY UNSUITABLE MATERIAL.
9. SWALE INVERTS SHALL BE GRADED TO DRAIN FREELY TO ASSOCIATED FIELD INLETS, ALL SWALES ARE TO BE TOPSOILED AND TURFED
10. ALL BATTERS BETWEEN 1:3 AND 1:4 ARE TO BE FULLY TURFED TO PREVENT SCOUR AND EROSION. ANY BATTERS BETWEEN 1:2 AND 1:3 TO BE HEAVILY LANDSCAPED. BATTERS STEEPER THAN 1:2 TO BE ROCK PROTECTED OR AS NOTED BY COUNCIL. BATTERS STEEPER THAN 1:1 ARE UNDESIRABLE.
11. ALL EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH APPROVED VEGETATION MANAGEMENT PLANS AND APPROVALS.

**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY:	COFFS HARBOUR CITY COUNCIL
X FILE REF NO:	REF: 170 NORTH BOAMBEE ROAD
DP DESCRIPTION:	LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	22/07/2022
B	UPDATED ROAD AND BRIDGE ALIGNMENT FOR APPROVAL	ET	DC	27/07/2022
C	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME: DAVID CUMMINGS  
 NER: 2383439  
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GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA QLD 4271  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

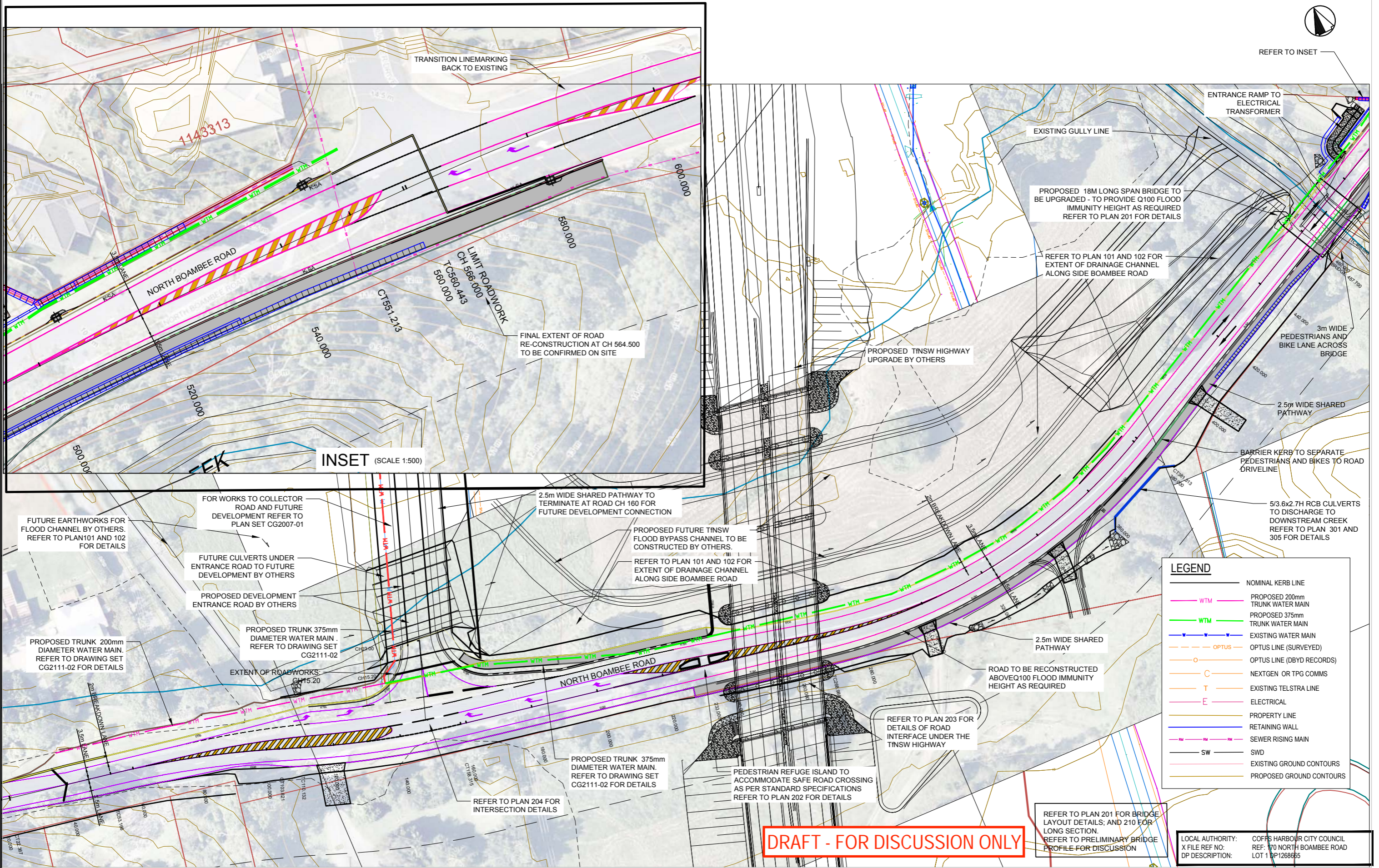
CLIENT: COFFS HARBOUR CITY COUNCIL  
 PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL  
 TITLE: EARTHWORKS EXTENT CUT AND FILL DEVELOPMENT INTERSECTION LOCATION

<b>FOR APPROVAL NOT FOR CONSTRUCTION</b>	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
	JA	JA	DC	04.02.2022	1:500	of
PROJECT No:		DRAWING No:		REV		
CG2111-01		100		D		

DWG FILE: C:\Users\mcm\Documents\Projects\CG2111-01\170NORTHBOAMBEE\EXTENT CUT AND FILL PLAN.dwg - MP PLOT TIME: 13/02/2023 12:28



REFER TO INSET



INSET (SCALE 1:500)

LEGEND	
	NOMINAL KERB LINE
	PROPOSED 200mm TRUNK WATER MAIN
	PROPOSED 375mm TRUNK WATER MAIN
	EXISTING WATER MAIN
	OPTUS LINE (SURVEYED)
	OPTUS LINE (DBY RECORDS)
	NEXTGEN OR TPG COMMS
	EXISTING TELSTRA LINE
	ELECTRICAL
	PROPERTY LINE
	RETAINING WALL
	SEWER RISING MAIN
	SWD
	EXISTING GROUND CONTOURS
	PROPOSED GROUND CONTOURS

FUTURE EARTHWORKS FOR FLOOD CHANNEL BY OTHERS. REFER TO PLAN 101 AND 102 FOR DETAILS

FOR WORKS TO COLLECTOR ROAD AND FUTURE DEVELOPMENT REFER TO PLAN SET CG2007-01

FUTURE CULVERTS UNDER ENTRANCE ROAD TO FUTURE DEVELOPMENT BY OTHERS

PROPOSED DEVELOPMENT ENTRANCE ROAD BY OTHERS

PROPOSED TRUNK 200mm DIAMETER WATER MAIN. REFER TO DRAWING SET CG2111-02 FOR DETAILS

PROPOSED TRUNK 375mm DIAMETER WATER MAIN. REFER TO DRAWING SET CG2111-02

EXTENT OF ROADWORKS:

2.5m WIDE SHARED PATHWAY TO TERMINATE AT ROAD CH 160 FOR FUTURE DEVELOPMENT CONNECTION

PROPOSED FUTURE TNSW FLOOD BYPASS CHANNEL TO BE CONSTRUCTED BY OTHERS. REFER TO PLAN 101 AND 102 FOR EXTENT OF DRAINAGE CHANNEL ALONG SIDE BOAMBEE ROAD

PROPOSED TNSW HIGHWAY UPGRADE BY OTHERS

PROPOSED 18M LONG SPAN BRIDGE TO BE UPGRADED - TO PROVIDE Q100 FLOOD IMMUNITY HEIGHT AS REQUIRED REFER TO PLAN 201 FOR DETAILS

REFER TO PLAN 101 AND 102 FOR EXTENT OF DRAINAGE CHANNEL ALONG SIDE BOAMBEE ROAD

3m WIDE PEDESTRIANS AND BIKE LANE ACROSS BRIDGE

2.5m WIDE SHARED PATHWAY

BARRIER KERB TO SEPARATE PEDESTRIANS AND BIKES TO ROAD DRIVELINE

5/3.6x2.7H RCB CULVERTS TO DISCHARGE TO DOWNSTREAM CREEK REFER TO PLAN 301 AND 305 FOR DETAILS

2.5m WIDE SHARED PATHWAY

ROAD TO BE RECONSTRUCTED ABOVE Q100 FLOOD IMMUNITY HEIGHT AS REQUIRED

REFER TO PLAN 203 FOR DETAILS OF ROAD INTERFACE UNDER THE TNSW HIGHWAY

PEDESTRIAN REFUGE ISLAND TO ACCOMMODATE SAFE ROAD CROSSING AS PER STANDARD SPECIFICATIONS REFER TO PLAN 202 FOR DETAILS

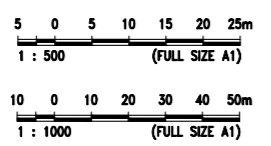
PROPOSED TRUNK 375mm DIAMETER WATER MAIN. REFER TO DRAWING SET CG2111-02 FOR DETAILS

REFER TO PLAN 204 FOR INTERSECTION DETAILS

REFER TO PLAN 201 FOR BRIDGE LAYOUT DETAILS; AND 210 FOR LONG SECTION. REFER TO PRELIMINARY BRIDGE PROFILE FOR DISCUSSION

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04.02.22
B	UPDATED ROAD ALIGNMENT DETAILS FOR APPROVAL	CH	DC	10/03/2022
C	UPDATED ROAD ALIGNMENT DETAILS FOR APPROVAL	CH	DC	30/03/2022
D	UPDATED DETAILS FOR APPROVAL	CH	DC	15/07/2022
E	UPDATED DETAILS FOR APPROVAL	ET	DC	26/07/2022
F	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
G	UPDATED NOTES FOR COUNCIL APPROVAL	ET	DC	08/11/2022
H	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME: DAVID CUMMINGS  
NER: 2383439

Approved by, for and on behalf of Cummings Group Pty Ltd

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GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

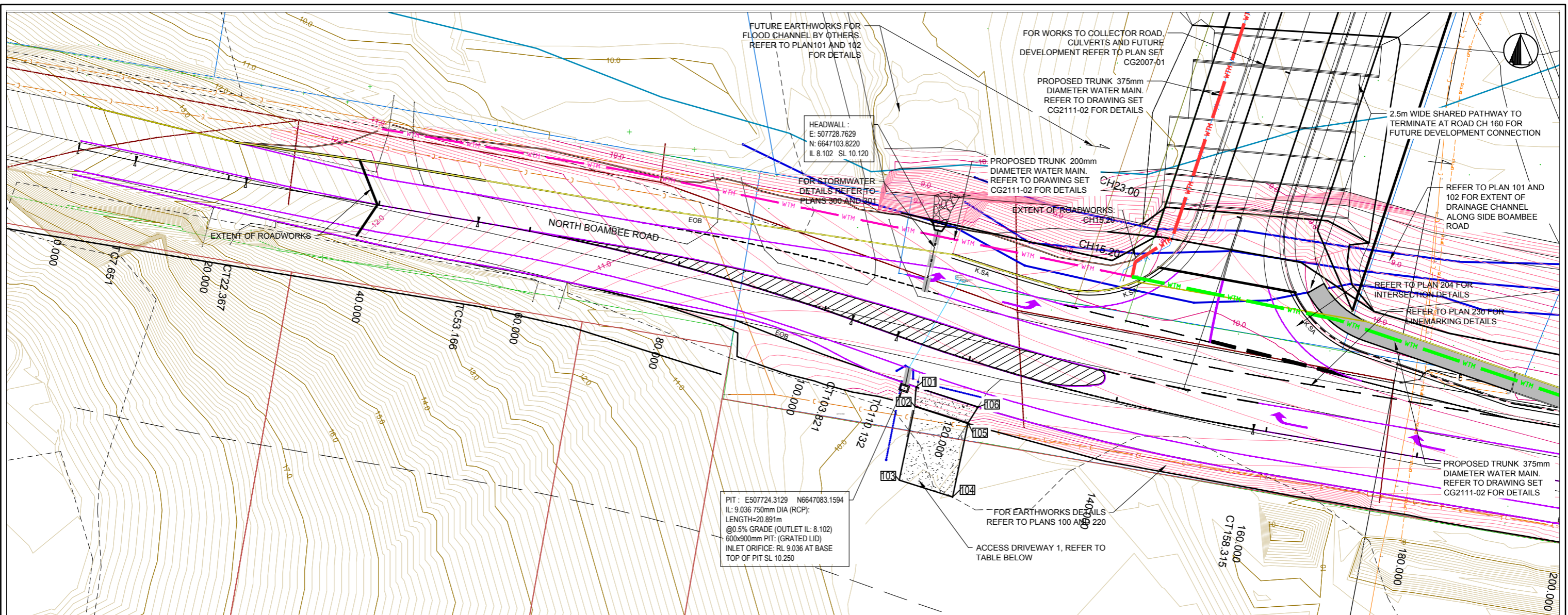
TITLE: OVERALL ROADWORKS LAYOUT PLAN

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	of
PROJECT No: CG2111-01			DRAWING No:	200	REV
					H

D:\G:\Projects\CG2111-01\Boambee\_Road\_and\_Bridge\Drawings\CG2111-01-2023-07\_Roadworks\_LayOut\_Plan.dwg - 16/11/2023 11:25am



**LEGEND**

- NOMINAL KERB LINE
- PROPOSED 200mm TRUNK WATER MAIN (WTH)
- PROPOSED 375mm TRUNK WATER MAIN (WTH)
- EXISTING WATER MAIN
- OPTUS LINE (SURVEYED)
- OPTUS LINE (DBYD RECORDS)
- NEXTGEN OR TPG COMMS
- EXISTING TELSTRA LINE
- ELECTRICAL
- PROPERTY LINE
- RETAINING WALL
- SEWER RISING MAIN
- SWD
- EXISTING GROUND CONTOURS
- PROPOSED GROUND CONTOURS

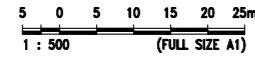
**ACCESS DRIVEWAY 1**

POINT	EASTING	NORTHING	RL
101	507725.8629	6647083.2822	10.335
102	507725.6911	6647080.8001	9.990
103	507723.6680	6647071.1051	9.820
104	507730.6453	6647068.8902	9.700
105	507732.6685	6647078.5852	9.975
106	507733.9816	507733.9816	10.310

**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	15/07/2022
B	UPDATED ROAD AND BRIDGE ALIGNMENT. FOR APPROVAL	CH	DC	27/07/2022
C	UPDATED DETAILS. FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED NOTES FOR COUNCIL APPROVAL	ET	DC	08/11/2022
E	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



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 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

TITLE: OVERALL ROADWORKS LAYOUT PLAN SHEET 1 OF 3

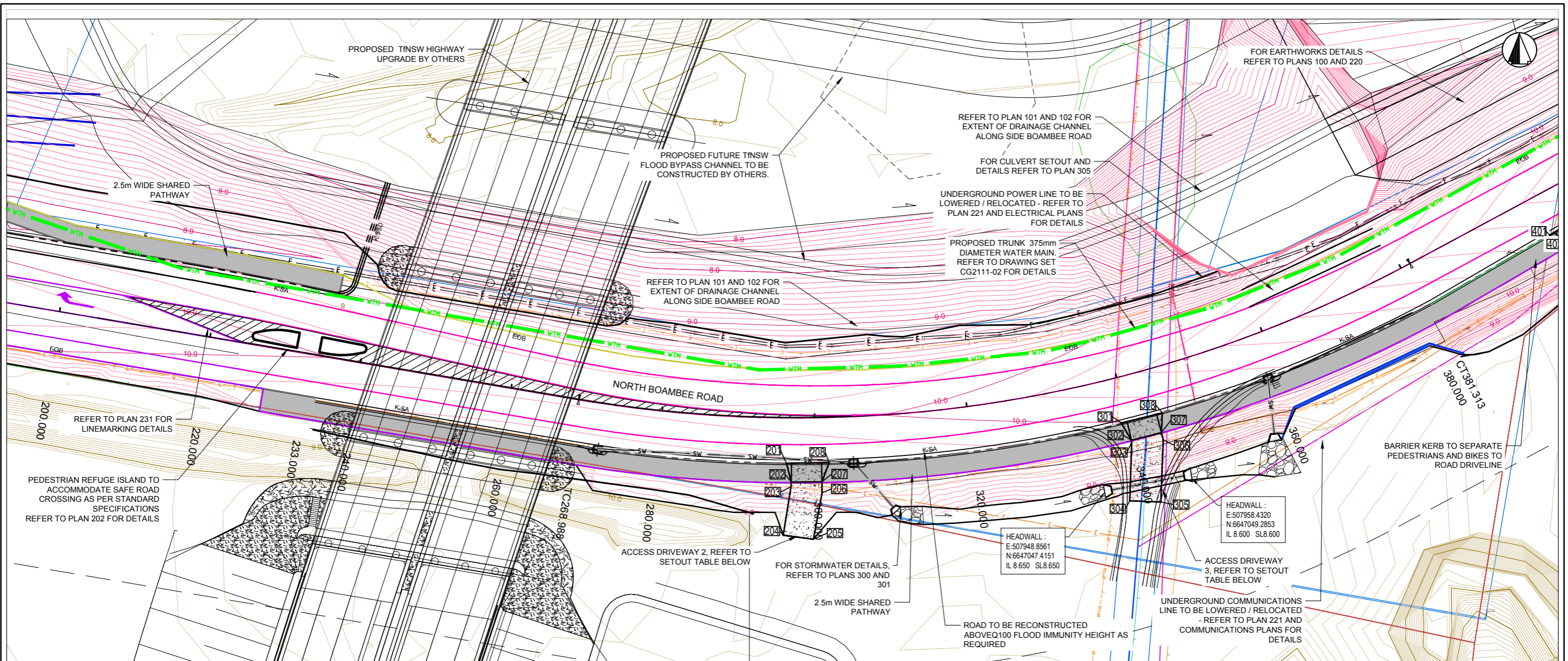
PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET OF
JA	JA	DC	04.02.2022	1:500	OF

PROJECT NO: CG2111-01  
 DRAWING NO: 205  
 REV: E

DWG FILE: \\saves\seffm\k\br\m\k\Documents\cg2111-01-200-205-207-Roadworks\Layout\PLANS.dwg - 18 Jun 2023, 12:11pm



**LEGEND**

- NOMINAL KERB LINE
- PROPOSED 200mm TRUNK WATER MAIN
- PROPOSED 375mm TRUNK WATER MAIN
- EXISTING WATER MAIN
- OPTUS LINE (SURVEYED)
- OPTUS LINE (DBYD RECORDS)
- NEXTGEN OR TPG COMMS
- EXISTING TELSTRA LINE
- ELECTRICAL
- PROPERTY LINE
- RETAINING WALL
- SEWER RISING MAIN
- SWD
- EXISTING GROUND CONTOURS
- PROPOSED GROUND CONTOURS

**ACCESS DRIVEWAY 2**

POINT	EASTING	NORTHING	RL
201	507906.3035	6647050.9153	9.780
202	507906.9323	6647048.4661	9.705
203	507906.8989	6647047.8516	9.620
204	507905.8834	6647041.4944	8.690
205	507909.8315	6647040.9668	8.680
206	507910.9671	6647047.0597	9.540
207	507910.9617	6647048.5012	7.710
208	507911.9005	6647051.0181	7.795

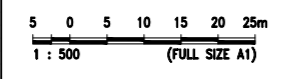
**ACCESS DRIVEWAY 3**

POINT	NORTHING	EASTING	RL
301	507950.1594	6647056.1979	9.995
302	507951.4871	6647053.9453	9.925
303	507951.5350	6647053.7348	9.900
304	507951.2730	6647045.9997	8.600
305	507955.3325	6647045.8494	8.600
306	507955.6534	6647053.9950	9.835
307	507955.4244	6647054.9315	10.005
308	507955.5429	6647057.5289	10.060

**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	15/07/2022
B	UPDATED ROAD AND BRIDGE ALIGNMENT FOR APPROVAL	CH	DC	27/07/2022
C	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED NOTES FOR COUNCIL APPROVAL	ET	DC	08/11/2022
E	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME: DAVID CUMMINGS  
 NER: 2383439

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GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

TITLE: OVERALL ROADWORKS LAYOUT PLAN SHEET 2 OF 3

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

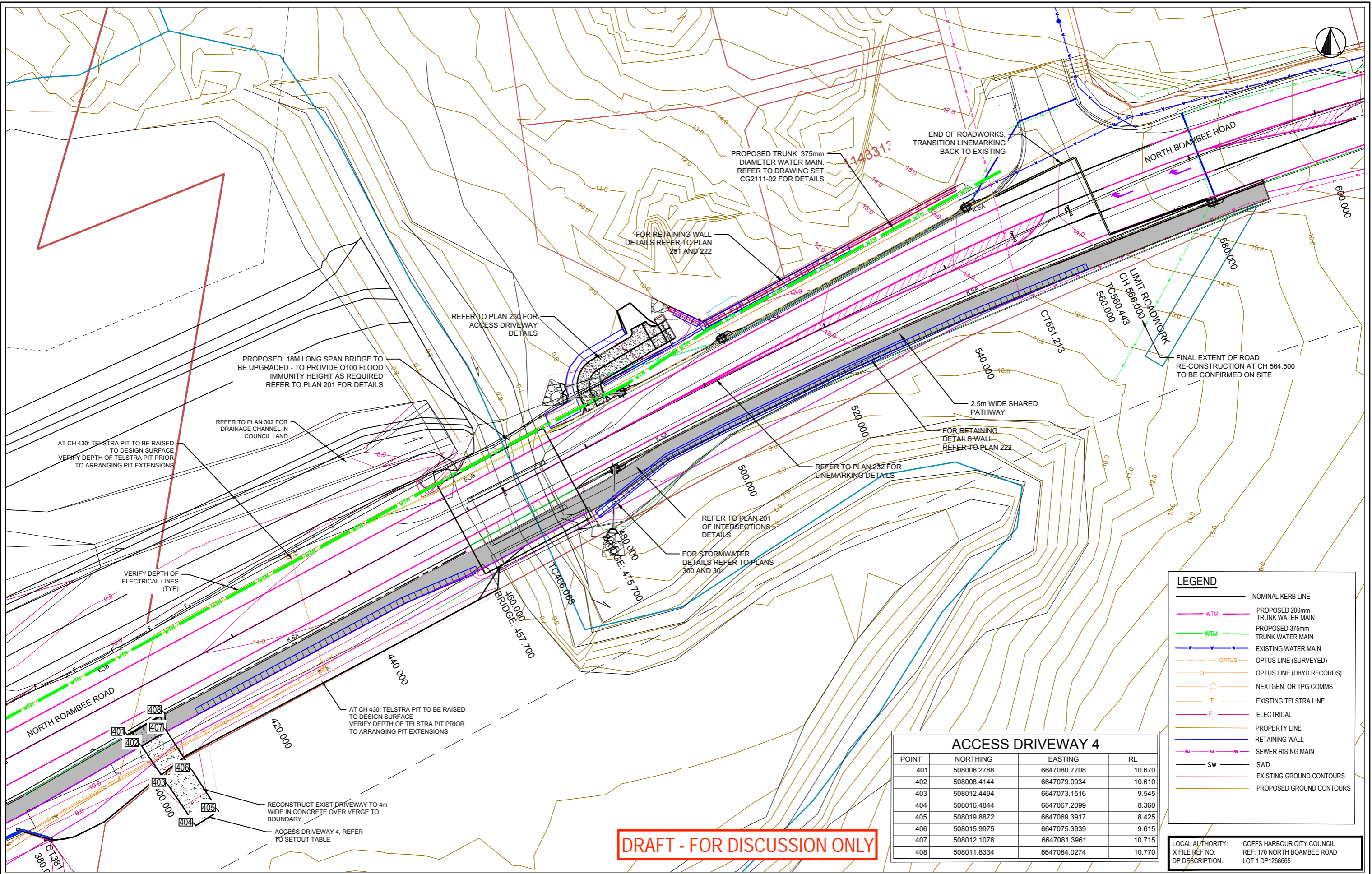
STATUS: FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	of

PROJECT No: CG2111-01  
 DRAWING No: 206  
 REV: E

DWG FILE: C:\Users\matt.dunlop\Documents\cpgp-coast\cpgp-coast\Roadworks\Layout\001\PLANS.dwg - 14/01/2023 11:25am





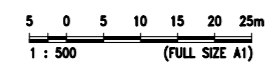
LEGEND	
	NOMINAL KERB LINE
	PROPOSED 200mm TRUNK WATER MAIN
	PROPOSED 375mm TRUNK WATER MAIN
	EXISTING WATER MAIN
	OPTUS LINE (SURVEYED)
	OPTUS LINE (DBY RECORDS)
	NEXTGEN OR TPG COMMS
	EXISTING TELSTRA LINE
	ELECTRICAL
	PROPERTY LINE
	RETAINING WALL
	SEWER RISING MAIN
	SWD
	EXISTING GROUND CONTOURS
	PROPOSED GROUND CONTOURS

ACCESS DRIVEWAY 4			
POINT	NORTHING	EASTING	RL
401	508006.2788	6647080.7708	10.670
402	508008.4144	6647079.0934	10.610
403	508012.4494	6647073.1516	9.545
404	508016.4844	6647067.2099	8.360
405	508019.8872	6647069.3917	8.425
406	508015.9975	6647075.3939	9.615
407	508012.1078	6647081.3961	10.715
408	508011.8334	6647084.0274	10.770

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP 1268665

**DRAFT - FOR DISCUSSION ONLY**

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	15/07/2022
B	UPDATED ROAD AND BRIDGE ALIGNMENT, FOR APPROVAL	CH	DC	27/07/2022
C	UPDATED DETAILS, FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED NOTES FOR COUNCIL APPROVAL	ET	DC	08/11/2022
E	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



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 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

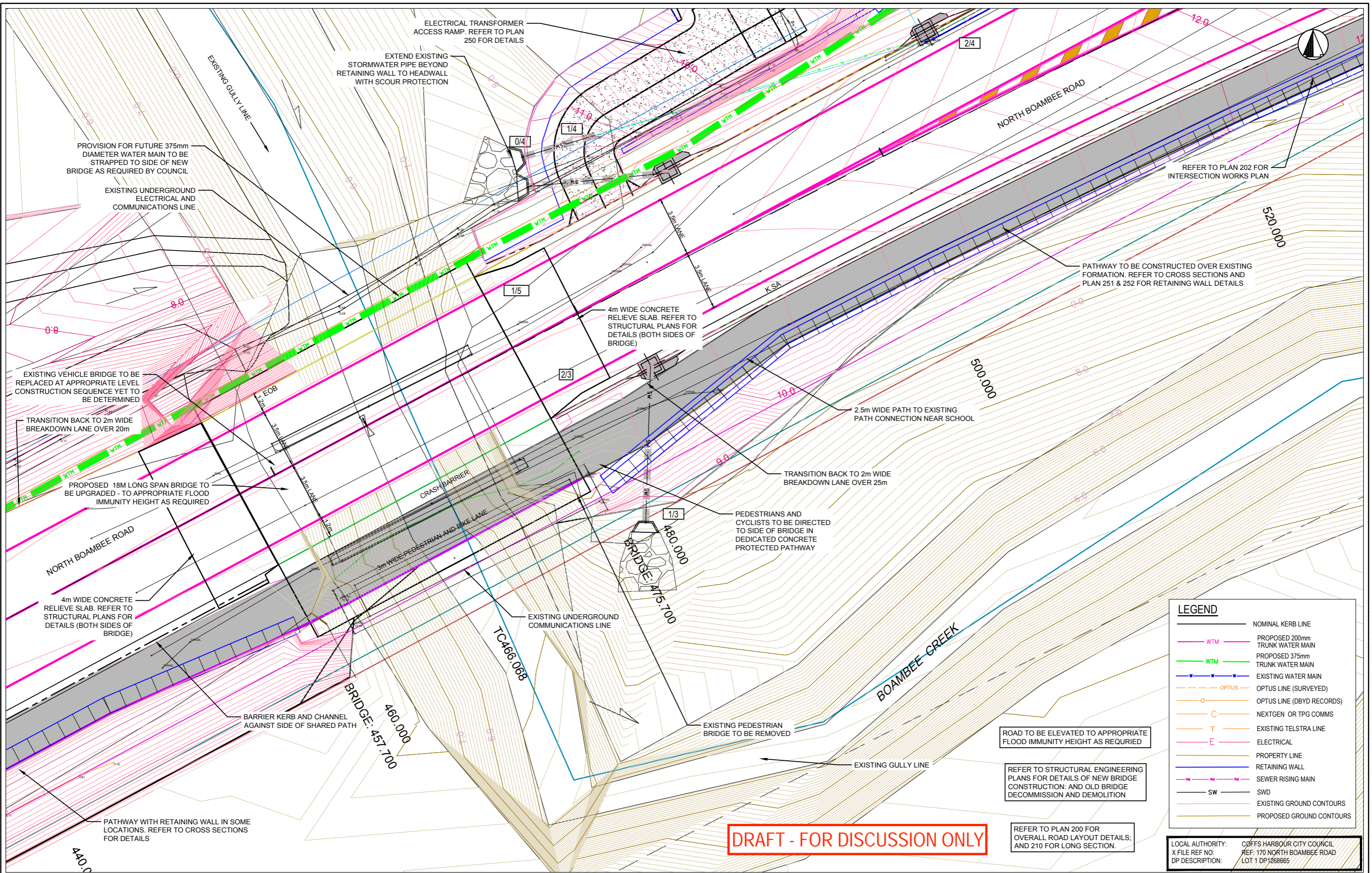
TITLE: OVERALL ROADWORKS LAYOUT PLAN  
 SHEET 3 of 3

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE: NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL  
 NOT FOR CONSTRUCTION

DESIGNED: JA  
 DRAWN: JA  
 APPROVED: DC  
 DATE: 04.02.2022  
 SCALE @ A1: 1:500  
 SHEET OF: 207  
 REV: E

DWG FILE: \\sbs\seff\m\l\br\m\l\Documents\cgs\CG2111-01-200-205-207-ROADWORKS\ROADWORKS\_LAYOUT\PLANS.dwg - 18 JUN 2023, 12:20PM



LEGEND	
	NOMINAL KERB LINE
	PROPOSED 200mm TRUNK WATER MAIN
	PROPOSED 375mm TRUNK WATER MAIN
	EXISTING WATER MAIN
	OPTUS LINE (SURVEYED)
	OPTUS LINE (DBYD RECORDS)
	NEXTGEN OR TPG COMMS
	EXISTING TELSTRA LINE
	ELECTRICAL
	PROPERTY LINE
	RETAINING WALL
	SEWER RISING MAIN
	SWD
	EXISTING GROUND CONTOURS
	PROPOSED GROUND CONTOURS

**DRAFT - FOR DISCUSSION ONLY**

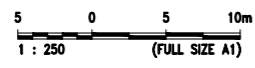
ROAD TO BE ELEVATED TO APPROPRIATE FLOOD IMMUNITY HEIGHT AS REQUIRED

REFER TO STRUCTURAL ENGINEERING PLANS FOR DETAILS OF NEW BRIDGE CONSTRUCTION; AND OLD BRIDGE DECOMMISSION AND DEMOLITION

REFER TO PLAN 200 FOR OVERALL ROAD LAYOUT DETAILS; AND 210 FOR LONG SECTION.

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04.02.22
B	UPDATED ROAD AND BRIDGE ALIGNMENT. FOR APPROVAL	CH	DC	10/03/2022
C	UPDATED ROAD AND BRIDGE ALIGNMENT. FOR APPROVAL	CH	DC	30/03/2022
D	UPDATED DETAILS. FOR APPROVAL	CH	DC	15/07/2022
E	UPDATED DETAILS. FOR APPROVAL	ET	DC	26/07/2022
F	UPDATED DETAILS. FOR APPROVAL	ET	DC	18/08/2022
G	UPDATED DETAILS. FOR COUNCIL APPROVAL	ET	DC	20/01/2023



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CLIENT: COFFS HARBOUR CITY COUNCIL

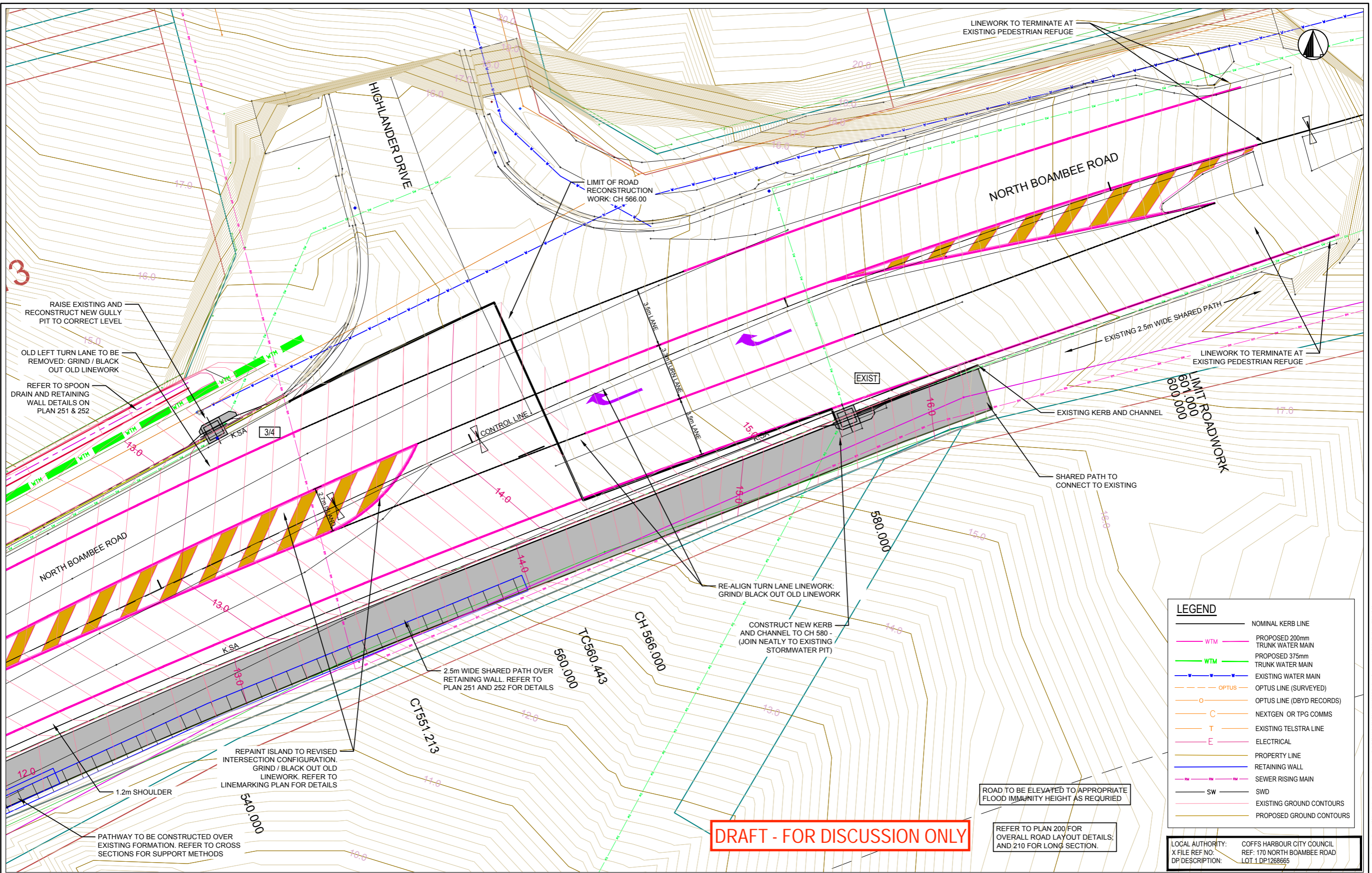
TITLE: LAYOUT PLAN AT PROPOSED BRIDGE

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	of

PROJECT No: CG2111-01  
 DRAWING No: 201  
 REV: G

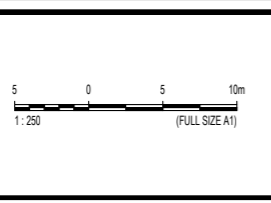


**DRAFT - FOR DISCUSSION ONLY**

LEGEND	
	NOMINAL KERB LINE
	PROPOSED 200mm TRUNK WATER MAIN
	PROPOSED 375mm TRUNK WATER MAIN
	EXISTING WATER MAIN
	OPTUS LINE (SURVEYED)
	OPTUS LINE (DBYD RECORDS)
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	EXISTING TELSTRA LINE
	ELECTRICAL
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	RETAINING WALL
	SEWER RISING MAIN
	SWD
	EXISTING GROUND CONTOURS
	PROPOSED GROUND CONTOURS

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04/02/22
B	UPDATED ROAD AND BRIDGE ALIGNMENT. FOR APPROVAL	CH	DC	10/03/2022
C	UPDATED EXTENT OF WORKS. FOR APPROVAL	CH	DC	30/03/2022
D	UPDATED DETAILS FOR APPROVAL	CH	DC	15/07/2022
E	UPDATED DETAILS FOR APPROVAL	ET	DC	26/07/2022
F	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
G	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME	DAVID CUMMINGS
NER	2383439

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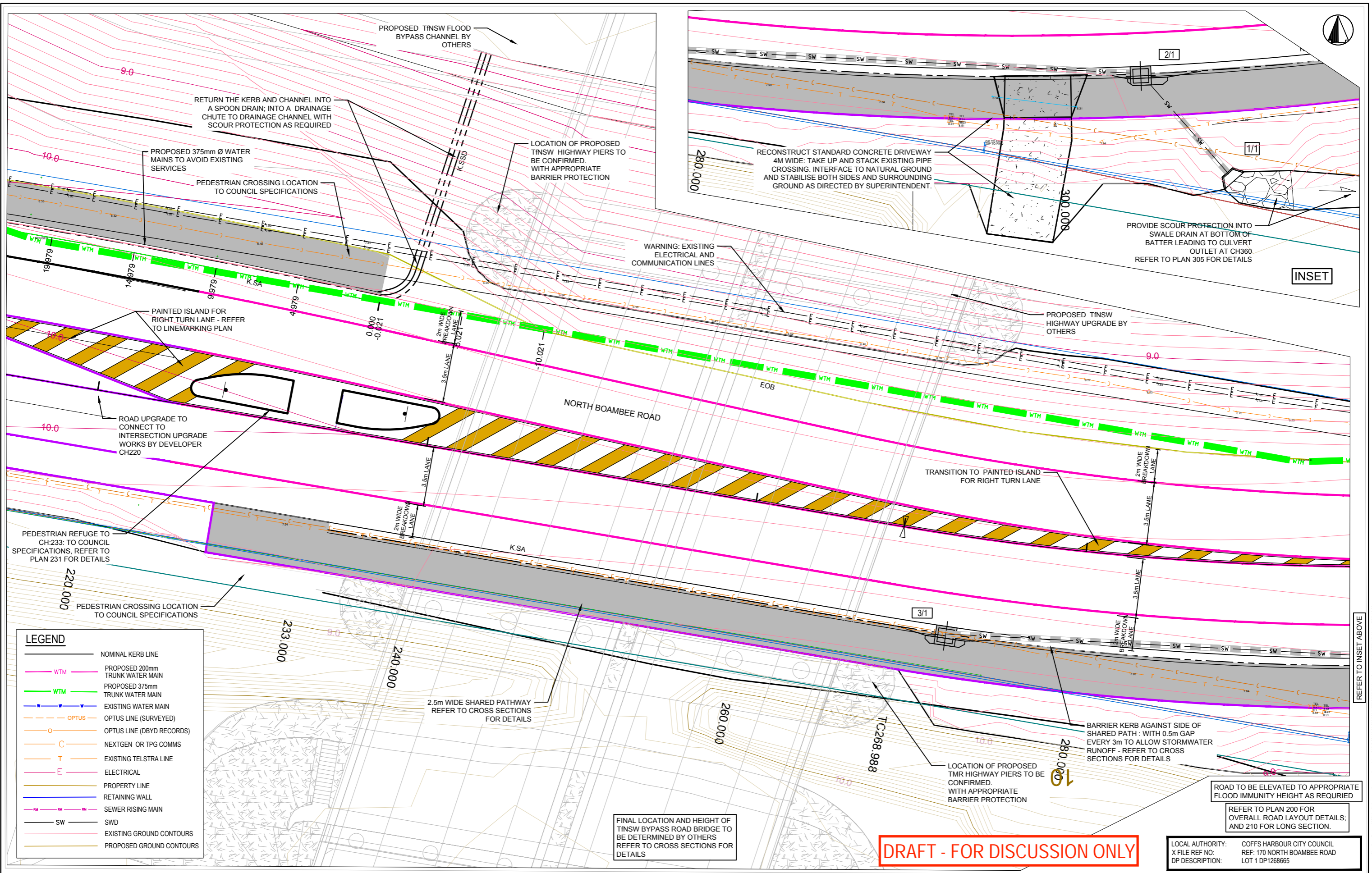
CUMMINGS GROUP PTY LTD. PROJECT MANAGERS & CONSULTING ENGINEERS

GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL  
 PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL  
 TITLE: LAYOUT PLAN AT HIGHLANDER DRIVE INTERSECTION UPGRADE WORKS

STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
FOR APPROVAL NOT FOR CONSTRUCTION	JA	JA	DC	04.02.2022	1:500	of
PROJECT No:	CG2111-01	DRAWING No:	202			REV
						G

DWG FILE: C:\Users\mcm\Documents\Projects\CG2111-01\Boambee\Road and Bridge\plan\CG2111-01-170 NB INTERSECTION UPGRADE.dwg - NHPLOT TIME: 13 Mar 2022, 12:20pm



INSET

REFER TO INSET ABOVE

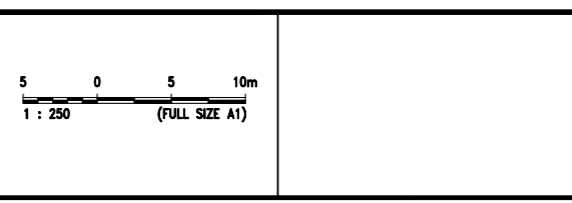
**LEGEND**

	NOMINAL KERB LINE
	PROPOSED 200mm TRUNK WATER MAIN
	PROPOSED 375mm TRUNK WATER MAIN
	EXISTING WATER MAIN
	OPTUS LINE (SURVEYED)
	OPTUS LINE (DBYD RECORDS)
	NEXTGEN OR TPG COMMS
	EXISTING TELSTRA LINE
	ELECTRICAL
	PROPERTY LINE
	RETAINING WALL
	SEWER RISING MAIN
	SWD
	EXISTING GROUND CONTOURS
	PROPOSED GROUND CONTOURS

**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04.02.22
B	UPDATED ROAD AND BRIDGE ALIGNMENT FOR APPROVAL	CH	DC	10/03/2022
C	UPDATED DETAILS FOR APPROVAL	CH	DC	30/03/2022
D	UPDATED DETAILS FOR APPROVAL	CH	DC	15/07/2022
E	UPDATED DETAILS FOR APPROVAL	ET	DC	26/07/2022
F	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
G	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME: DAVID CUMMINGS  
 NER: 2383439

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CUMMINGS GROUP PTY LTD: PROJECT MANAGERS & CONSULTING ENGINEERS

GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

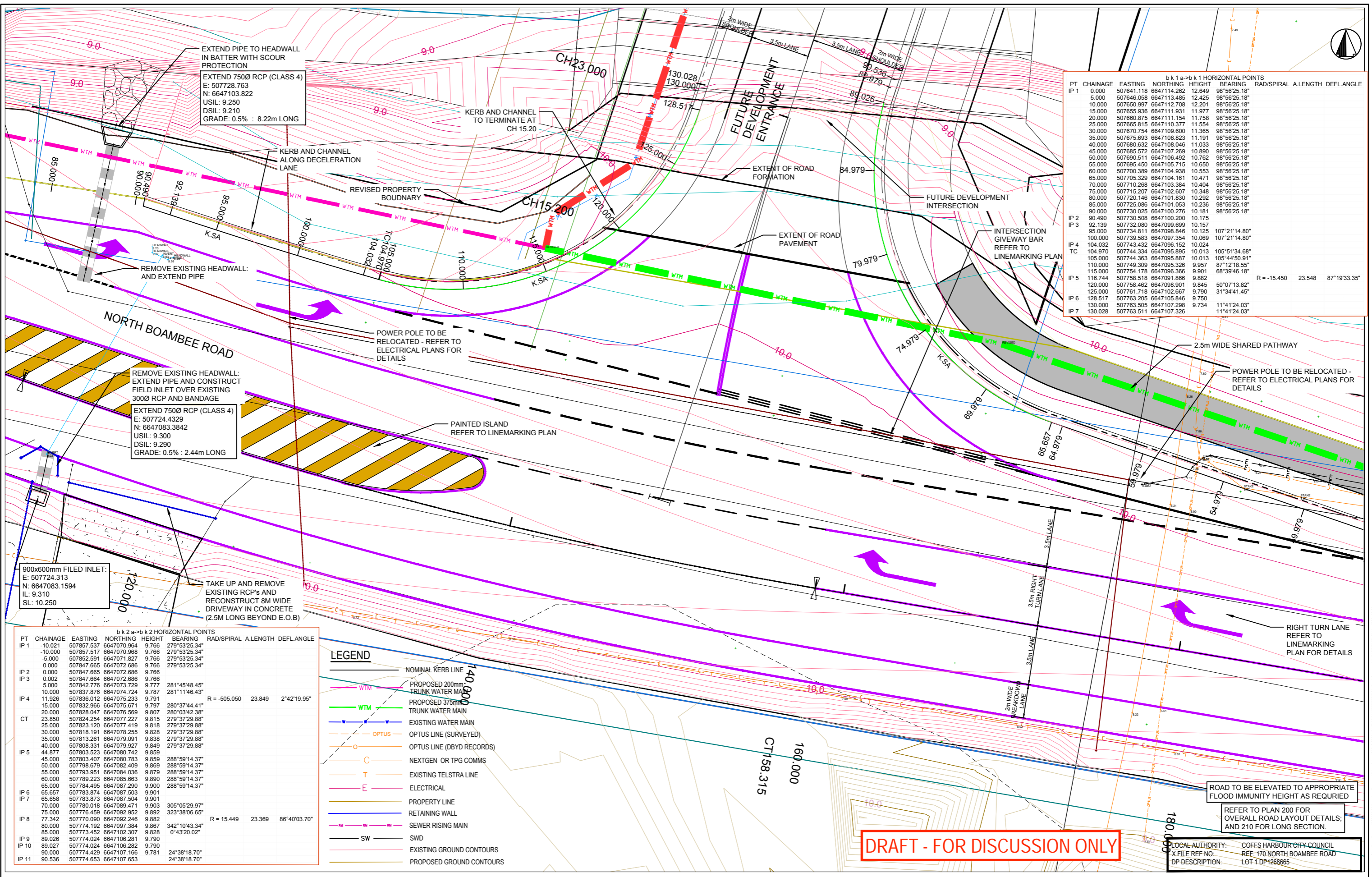
TITLE: LAYOUT PLAN AT PROPOSED HIGHWAY BYPASS LOCATION

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	of

PROJECT No: CG2111-01  
 DRAWING No: 203  
 REV: G



b k 1 a-b k 1 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A LENGTH	DEFL ANGLE
IP 1	0.000	507641.118	6647114.262	12.649	98°56'25.18"			
	5.000	507646.058	6647113.485	12.425	98°56'25.18"			
	10.000	507650.997	6647112.708	12.201	98°56'25.18"			
	15.000	507655.936	6647111.931	11.977	98°56'25.18"			
	20.000	507660.875	6647111.154	11.758	98°56'25.18"			
	25.000	507665.815	6647110.377	11.564	98°56'25.18"			
	30.000	507670.754	6647109.600	11.365	98°56'25.18"			
	35.000	507675.693	6647108.823	11.191	98°56'25.18"			
	40.000	507680.632	6647108.046	11.033	98°56'25.18"			
	45.000	507685.572	6647107.269	10.890	98°56'25.18"			
	50.000	507690.511	6647106.492	10.762	98°56'25.18"			
	55.000	507695.450	6647105.715	10.650	98°56'25.18"			
	60.000	507700.389	6647104.938	10.553	98°56'25.18"			
	65.000	507705.329	6647104.161	10.471	98°56'25.18"			
	70.000	507710.268	6647103.384	10.404	98°56'25.18"			
	75.000	507715.207	6647102.607	10.348	98°56'25.18"			
	80.000	507720.146	6647101.830	10.292	98°56'25.18"			
	85.000	507725.086	6647101.053	10.236	98°56'25.18"			
	90.000	507730.025	6647100.276	10.181	98°56'25.18"			
IP 2	90.490	507730.508	6647100.200	10.175				
IP 3	92.139	507732.080	6647099.899	10.157	107°21'14.80"			
	95.000	507734.811	6647099.846	10.125	107°21'14.80"			
	100.000	507739.583	6647097.354	10.069	107°21'14.80"			
IP 4	104.032	507743.432	6647096.152	10.024				
TC	104.970	507744.334	6647095.895	10.013	105°51'34.68"			
	105.000	507744.363	6647095.887	10.013	105°44'50.91"			
	110.000	507749.309	6647095.326	9.957	87°12'18.55"			
	115.000	507754.178	6647096.366	9.901	68°39'46.18"			
IP 5	116.744	507758.518	6647091.866	9.882				
	120.000	507759.462	6647090.901	9.845	50°07'13.82"			
	125.000	507761.718	6647102.667	9.790	31°34'41.45"			
IP 6	128.517	507763.205	6647105.846	9.750				
	130.000	507763.505	6647107.298	9.734	11°41'24.03"			
IP 7	130.028	507763.511	6647107.326					

b k 2 a-b k 2 HORIZONTAL POINTS

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A LENGTH	DEFL ANGLE
IP 1	-10.021	507857.537	6647070.964	9.766	279°53'25.34"			
	-10.000	507857.517	6647070.968	9.766	279°53'25.34"			
	-5.000	507852.591	6647071.827	9.766	279°53'25.34"			
	0.000	507847.665	6647072.686	9.766	279°53'25.34"			
IP 2	0.000	507847.665	6647072.686	9.766				
IP 3	0.002	507847.664	6647072.686	9.766				
	5.000	507842.776	6647073.729	9.777	281°45'48.45"			
	10.000	507837.876	6647074.724	9.787	281°11'46.43"			
	11.926	507836.012	6647075.233	9.791				
	15.000	507832.966	6647075.671	9.797	280°37'44.41"			
	20.000	507828.047	6647076.569	9.807	280°03'42.38"			
CT	23.850	507824.254	6647077.227	9.815	279°37'29.88"			
	25.000	507823.120	6647077.419	9.818	279°37'29.88"			
	30.000	507818.191	6647078.255	9.828	279°37'29.88"			
	35.000	507813.261	6647079.091	9.838	279°37'29.88"			
	40.000	507808.331	6647079.927	9.849	279°37'29.88"			
	44.877	507803.523	6647080.742	9.859				
	45.000	507803.407	6647080.783	9.859	288°59'14.37"			
	50.000	507798.679	6647082.409	9.869	288°59'14.37"			
	55.000	507793.951	6647084.036	9.879	288°59'14.37"			
	60.000	507789.223	6647085.663	9.890	288°59'14.37"			
	65.000	507784.495	6647087.290	9.900	288°59'14.37"			
IP 6	65.657	507783.874	6647087.503	9.901				
IP 7	65.658	507783.873	6647087.504	9.901				
	70.000	507780.018	6647089.471	9.903	305°05'29.97"			
	75.000	507776.459	6647092.952	9.892	323°38'06.65"			
	77.342	507770.090	6647092.246	9.882				
	80.000	507774.192	6647097.384	9.867	342°10'43.34"			
	85.000	507773.452	6647102.307	9.828	0°43'20.02"			
IP 9	89.026	507774.024	6647106.281	9.790				
	89.027	507774.024	6647106.282	9.790				
	90.000	507774.429	6647107.166	9.781	24°38'18.70"			
IP 11	90.536	507774.653	6647107.653		24°38'18.70"			

**LEGEND**

- NOMINAL KERB LINE
- PROPOSED 200mm TRUNK WATER MAIN
- PROPOSED 375mm TRUNK WATER MAIN
- EXISTING WATER MAIN
- OPTUS LINE (SURVEYED)
- OPTUS LINE (DBYD RECORDS)
- NEXTGEN OR TPG COMMS
- EXISTING TELSTRA LINE
- ELECTRICAL
- PROPERTY LINE
- RETAINING WALL
- SEWER RISING MAIN
- SW
- EXISTING GROUND CONTOURS
- PROPOSED GROUND CONTOURS

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04.02.22
B	UPDATED ROAD AND BRIDGE ALIGNMENT FOR APPROVAL	CH	DC	10/03/2022
C	UPDATED DETAILS FOR APPROVAL	CH	DC	30/03/2022
D	UPDATED DETAILS FOR APPROVAL	CH	DC	15/07/2022
E	UPDATED DETAILS FOR APPROVAL	ET	DC	26/07/2022
F	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
G	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023

5 0 5 10m  
1 : 250 (FULL SIZE A1)

NAME: DAVID CUMMINGS  
NER: 2383439

CUMMINGS GROUP PTY LTD: PROJECT MANAGERS & CONSULTING ENGINEERS

Approved by, for and on behalf of Cummings Group Pty Ltd

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CLIENT: COFFS HARBOUR CITY COUNCIL

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR COFFS HARBOUR CITY COUNCIL

TITLE: LAYOUT PLAN AT PROPOSED DEVELOPMENT INTERSECTION LOCATION

FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	of

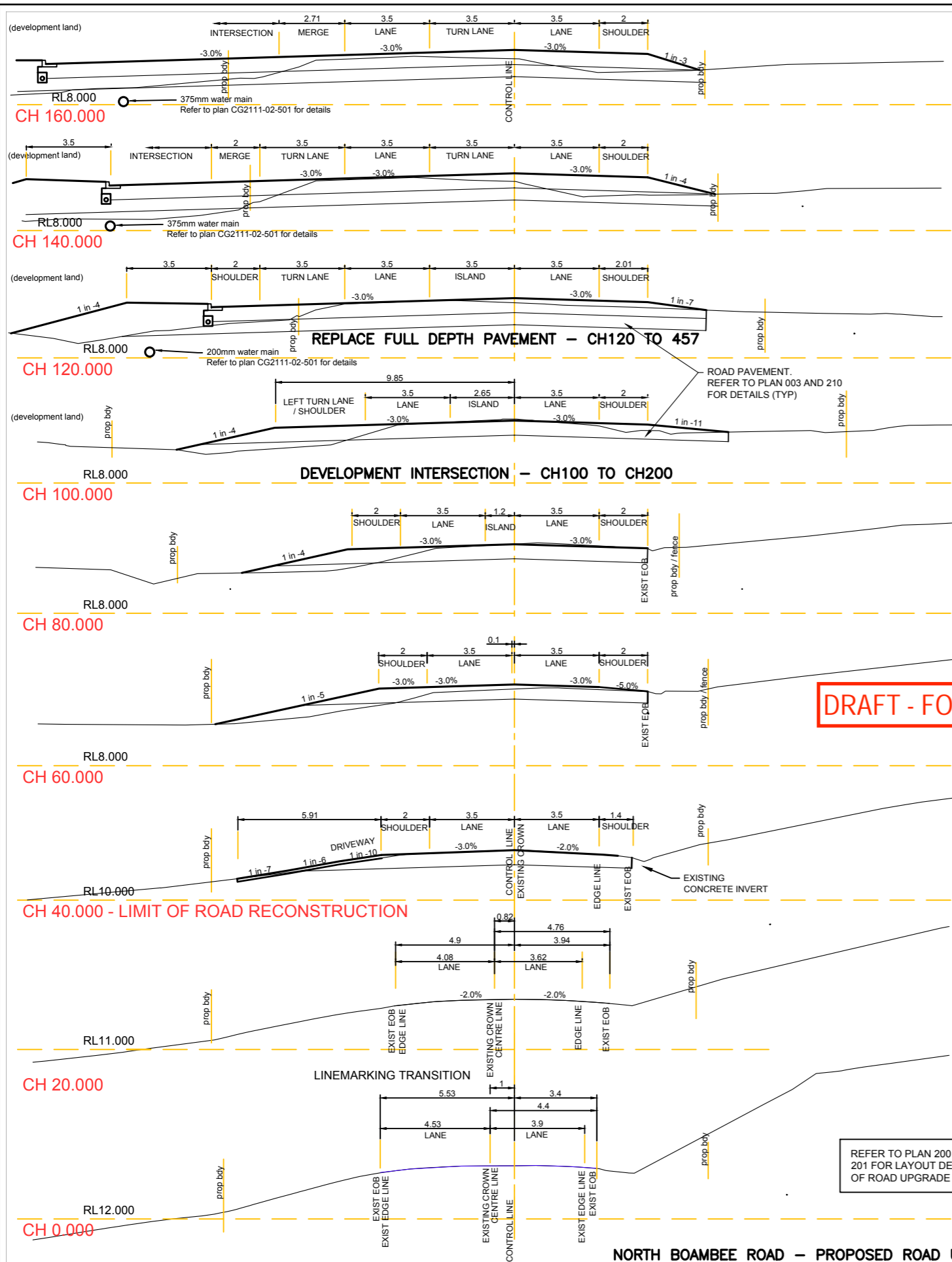
PROJECT No: CG2111-01  
DRAWING No: 204  
REV: G

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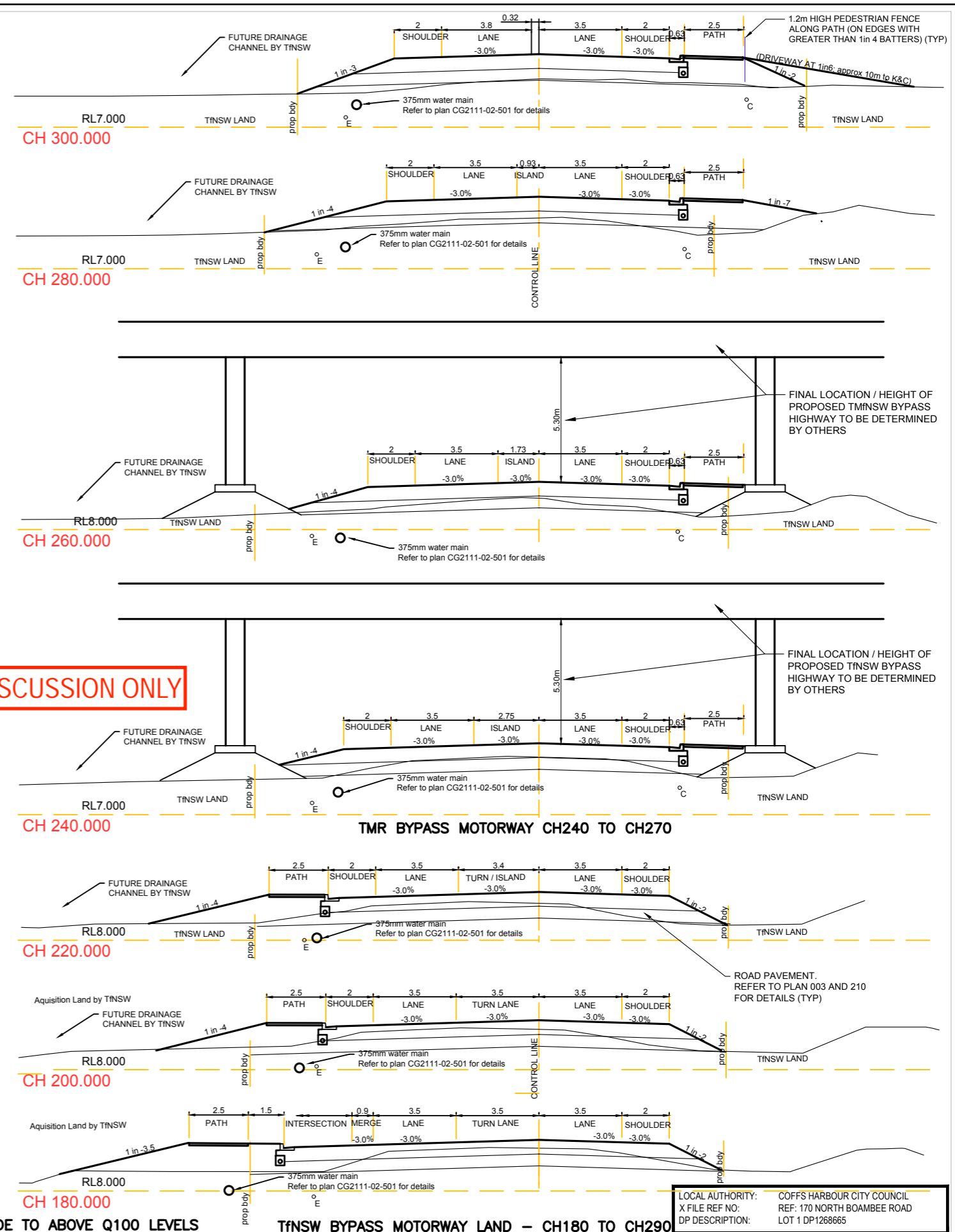
ROAD TO BE ELEVATED TO APPROPRIATE FLOOD IMMUNITY HEIGHT AS REQUIRED  
REFER TO PLAN 200 FOR OVERALL ROAD LAYOUT DETAILS; AND 210 FOR LONG SECTION.

LOCAL AUTHORITY:	COFFS HARBOUR CITY COUNCIL
X FILE REF NO:	REF: 170 NORTH BOAMBEE ROAD
DP DESCRIPTION:	LOT 1 DP1268665





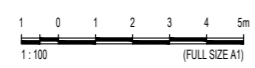
NORTH BOAMBEE ROAD - PROPOSED ROAD UPGRADE TO ABOVE Q100 LEVELS



TNSW BYPASS MOTORWAY LAND - CH180 TO CH290

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP 1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04.02.22
B	UPDATED LEVELS AND DETAILS. FOR APPROVAL	CH	DC	10/03/2022
C	UPDATED LEVELS AND DETAILS. FOR APPROVAL	CH	DC	30/03/2022
D	UPDATED DETAILS FOR APPROVAL	CH	DC	15/07/2022
E	UPDATED DETAILS. FOR APPROVAL	ET	DC	26/07/2022
F	UPDATED DETAILS. FOR APPROVAL	ET	DC	18/08/2022
G	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	29/01/2023



NAME: DAVID CUMMINGS  
 NER: 2383439

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GOLD COAST: PALM BEACH: PO BOX 1288 - ELANDRA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

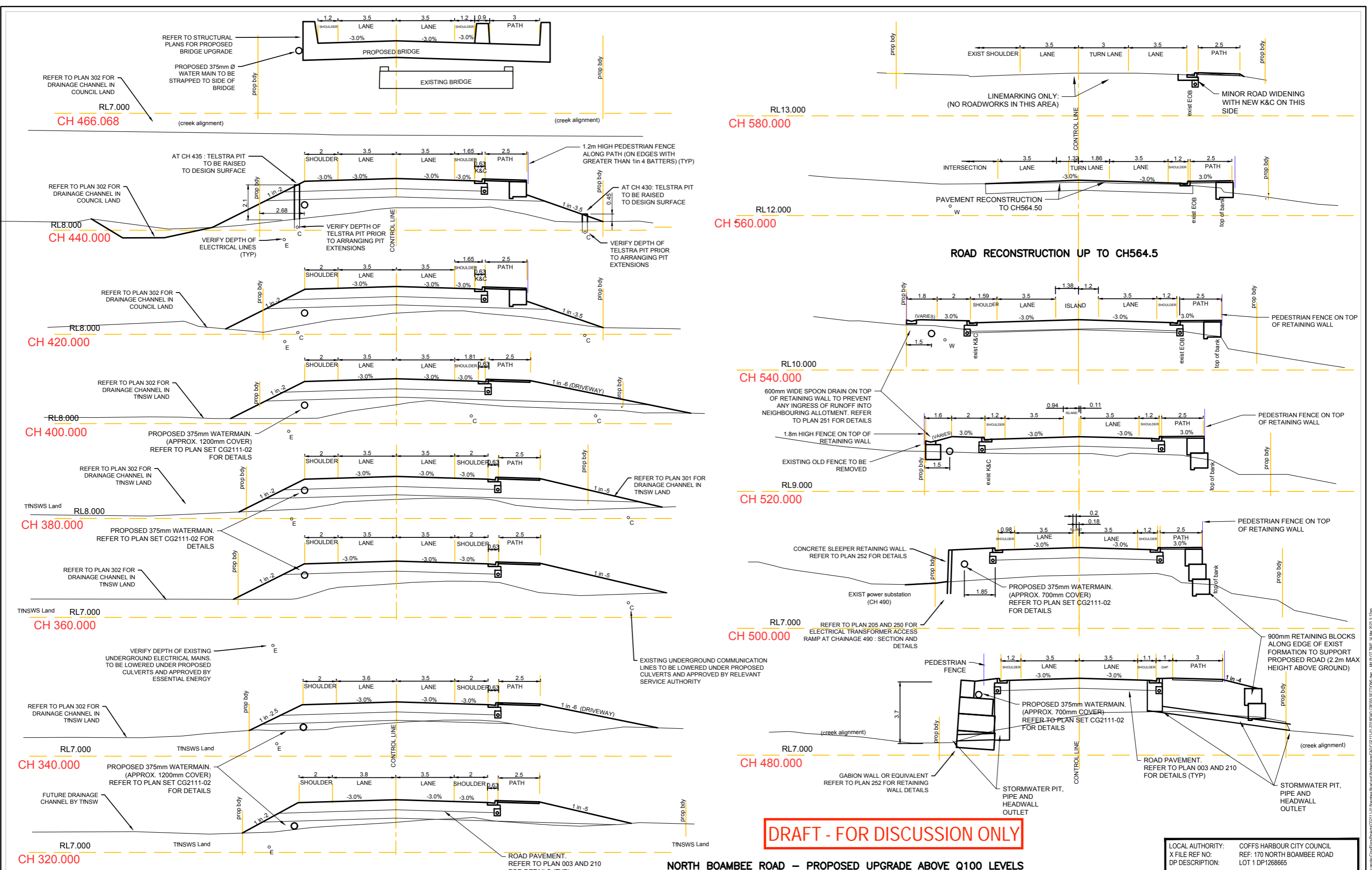
TITLE: ROAD CROSS SECTIONS  
 NORTH BOAMBEE ROAD  
 SHEET 1 OF 2

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE: NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL  
 NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:1000	OF
PROJECT No: CG2111-01			DRAWING No: 220	REV	G

DWG FILE: I:\assets\mfm\l\m\l\Documents\egp\ - Coffs Harbour\Projects\CG2111-01\220 ROAD CROSS SECTIONS.dwg - MHP.LOTTIME - 19 Jan 2023, 12:24pm

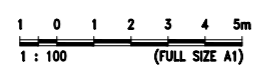


**DRAFT - FOR DISCUSSION ONLY**

**NORTH BOAMBEE ROAD – PROPOSED UPGRADE ABOVE Q100 LEVELS**

LOCAL AUTHORITY:	COFFS HARBOUR CITY COUNCIL
X FILE REF NO:	REF: 170 NORTH BOAMBEE ROAD
DP DESCRIPTION:	LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04.02.22
B	UPDATED LEVELS AND DETAILS FOR APPROVAL	CH	DC	10/03/2022
C	UPDATED LEVELS AND DETAILS FOR APPROVAL	CH	DC	30/03/2022
D	UPDATED DETAILS FOR APPROVAL	CH	DC	15/07/2022
E	UPDATED DETAILS FOR APPROVAL	ET	DC	26/07/2022
F	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
G	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME: DAVID CUMMINGS  
NER: 2383439

CUMMINGS GROUP PTY LTD. PROJECT MANAGERS & CONSULTING ENGINEERS

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CLIENT: COFFS HARBOUR CITY COUNCIL

TITLE: ROAD CROSS SECTIONS NORTH BOAMBEE ROAD SHEET 2 OF 2

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL	STATUS: FOR APPROVAL NOT FOR CONSTRUCTION	DESIGNED: JA	DRAWN: JA	APPROVED: DC	DATE: 04.02.2022	SCALE @ A1: 1:100	SHEET OF: 2
PROJECT No: CG2111-01	DRAWING No: 221	REV: G					





### PAVEMENT MARKING LEGEND

(LL) LANE LINE		80
(EL) EDGE LINE		80
(ULL) UNBROKEN LANE LINE		80
(BL) BARRIER LINE		80
(SL) STOP LINE		300
(CL) CONTINUITY LINE		200
(TL) TURN LINE		80
(GWL) GIVE WAY LINE		200
(HL) HOLDING LINE		300
(PCL) PEDESTRIAN CROSSING LINE		150
	UNIDIRECTIONAL WHITE RETROREFLECTIVE RAISED PAVEMENT MARKER	

### NOTES:

- All Pavement Marking to be in accordance with the current Manual of Uniform Traffic Control Devices.
- All existing signs in conflict with the proposed works are to be removed unless shown otherwise.



W2-4  
CH60



W6-3  
REFUGE ISLAND  
W8-25  
CH119



D4-5

CH23.00

CH15.20



R5-400(R)  
CH176



W4-6  
CH140

**CHEVRON MARKING**  
N.T.S.

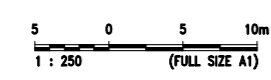
LEGEND:  
Angle A = 30° RURAL  
B = 1.0m min.  
S = 3.0m RURAL  
W = Equal dimensions  
100mm  
Retroflective markers

246562

**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	22/07/2022
B	UPDATED ROAD AND BRIDGE ALIGNMENT. FOR APPROVAL	ET	DC	27/07/2022
C	UPDATED DETAILS. FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	29/01/2023



NAME: DAVID CUMMINGS  
 NER: 2383439

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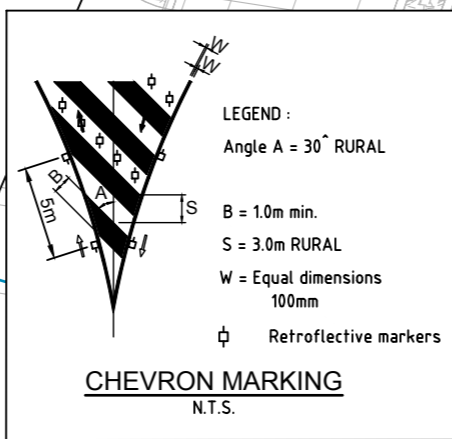
GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@ICLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

TITLE: LINEMARKING SETOUT PLAN  
 AT DEVELOPMENT ENTRANCE  
 SHEET 1 OF 4

PROJECT	STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL	FOR APPROVAL NOT FOR CONSTRUCTION	JA	JA	DC	04.02.2022	1:500	OF
PROJECT NO: CG2111-01	DRAWING No: 230						REV D

DWG FILE: \\server\services\mcl\brn\file\share\cog\proj\cg2111\01\Boambee\_Road\_and\_Bridge\Linemarking\PLANS.dwg - IRI PLOT TIME: 19 Jan 2023 4:53:04



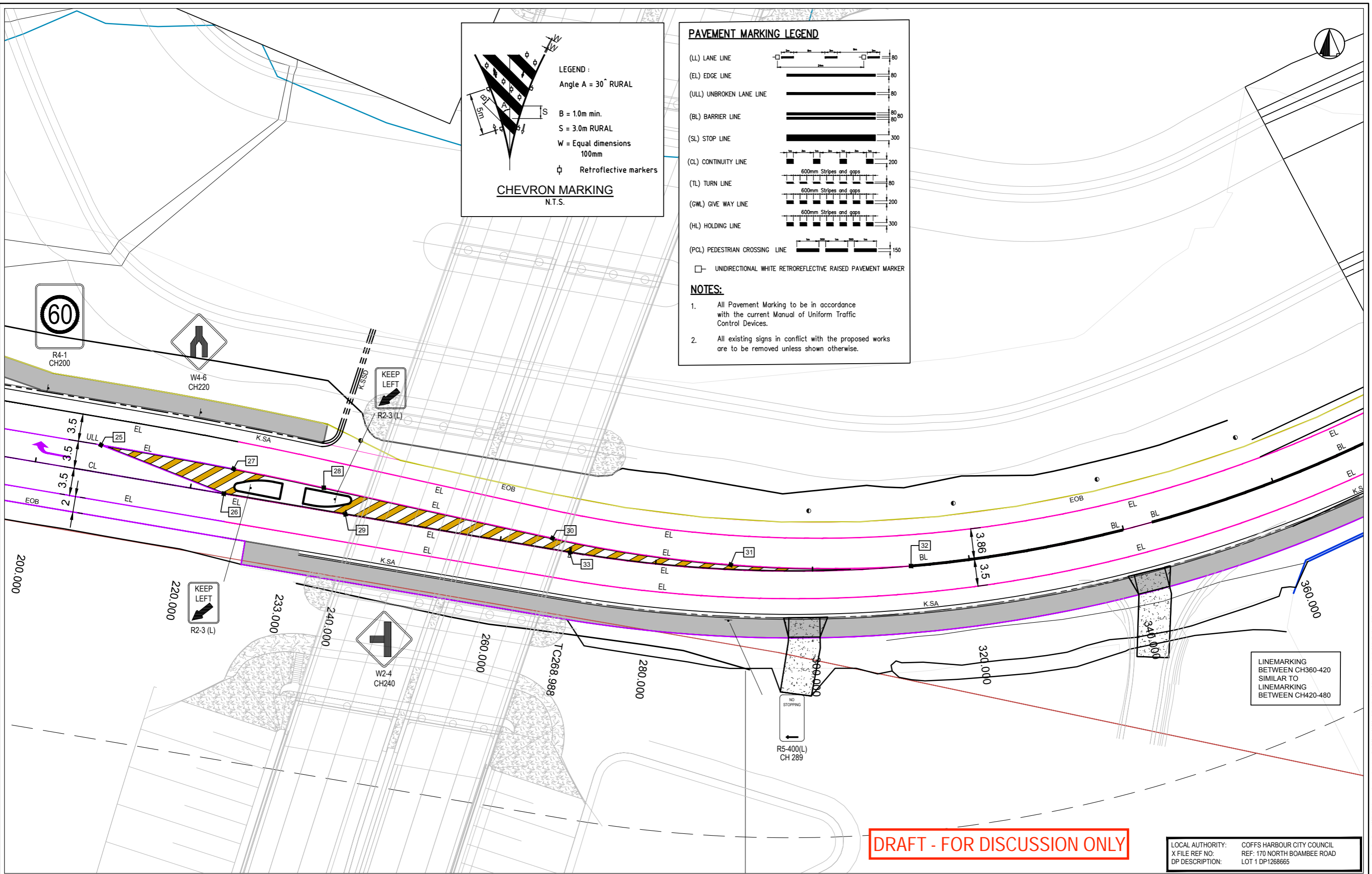
**PAVEMENT MARKING LEGEND**

(LL) LANE LINE		80
(EL) EDGE LINE		80
(ULL) UNBROKEN LANE LINE		80
(BL) BARRIER LINE		80/80
(SL) STOP LINE		300
(CL) CONTINUITY LINE		200
(TL) TURN LINE		80
(GWL) GIVE WAY LINE		200
(HL) HOLDING LINE		300
(PCL) PEDESTRIAN CROSSING LINE		150

☐ UNIDIRECTIONAL WHITE RETROREFLECTIVE RAISED PAVEMENT MARKER

**NOTES:**

- All Pavement Marking to be in accordance with the current Marking Manual of Uniform Traffic Control Devices.
- All existing signs in conflict with the proposed works are to be removed unless shown otherwise.

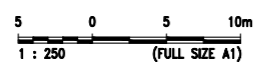


LINEMARKING BETWEEN CH360-420 SIMILAR TO LINEMARKING BETWEEN CH420-480

**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	22/07/2022
B	UPDATED ROAD AND BRIDGE ALIGNMENT. FOR APPROVAL	ET	DC	27/07/2022
C	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME: DAVID CUMMINGS  
 NER: 2383439

Approved by, for and on behalf of Cummings Group Pty Ltd

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CUMMINGS GROUP PTY LTD. PROJECT MANAGERS & CONSULTING ENGINEERS

GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

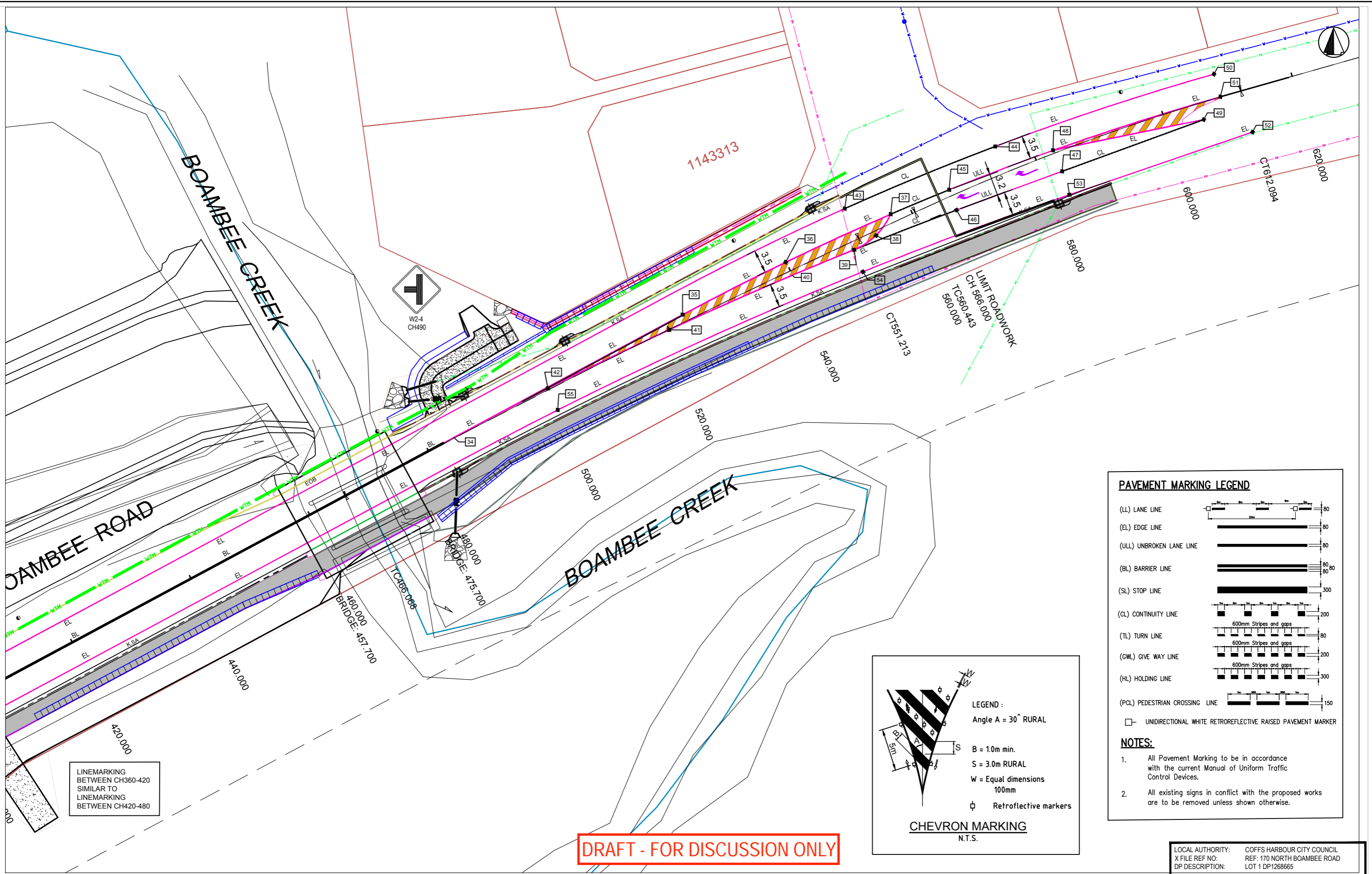
TITLE: LINEMARKING SETOUT PLAN AT TURN LEFT LANE TO DEVELOPMENT SHEET 2 OR 4

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

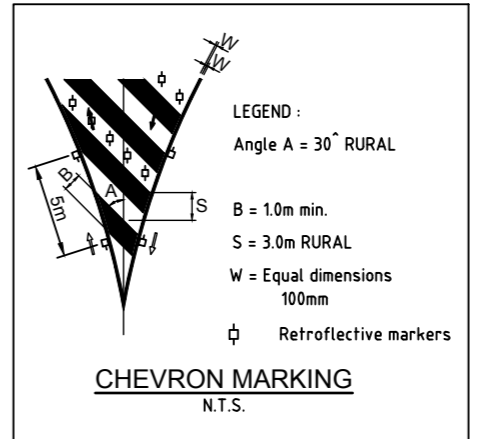
STATUS: FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	of

PROJECT No: CG2111-01  
 DRAWING No: 231  
 REV: D



LINEMARKING BETWEEN CH360-420 SIMILAR TO LINEMARKING BETWEEN CH420-480



**PAVEMENT MARKING LEGEND**

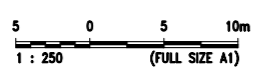
(LL) LANE LINE		80
(EL) EDGE LINE		80
(ULL) UNBROKEN LANE LINE		80
(BL) BARRIER LINE		80/80
(SL) STOP LINE		300
(CL) CONTINUITY LINE		200
(TL) TURN LINE		80
(GWL) GIVE WAY LINE		200
(HL) HOLDING LINE		300
(PCL) PEDESTRIAN CROSSING LINE		150

□ UNIDIRECTIONAL WHITE RETROREFLECTIVE RAISED PAVEMENT MARKER

- NOTES:**
- All Pavement Marking to be in accordance with the current Manual of Uniform Traffic Control Devices.
  - All existing signs in conflict with the proposed works are to be removed unless shown otherwise.

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	22/07/2022
B	UPDATED ROAD AND BRIDGE ALIGNMENT FOR APPROVAL	ET	DC	27/07/2022
C	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



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NER: 2383439

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GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

TITLE: LINEMARKING SETOUT PLAN AT HIGHLANDER DRIVE SHEET 3 OF 4

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	of

PROJECT No: CG2111-01  
DRAWING No: 232  
REV: D

DWG FILE: C:\Users\jcummi\Documents\cpgp\CG2111-01\Boambee Road and Bridge\plan\CG2111-01-250\170-322 LINEMARKING PLAN.dwg - MPT:LOT TIME: 13 Mar 2023: 11:30am

LINEMARKING SETOUT TABLE					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	507668.574	6647104.903	0.000	99°37'29.06"
IP 2	21.518	507689.788	6647101.306	0.000	
IP 3	42.746	507710.568	6647096.966	0.000	
IP 4	63.974	507730.960	6647091.064	0.000	
IP 5	73.807	507740.349	6647088.145	0.000	
IP 6	83.640	507749.839	6647085.570	0.000	
IP 7	84.921	507750.605	6647084.543	0.000	
IP 8	86.203	507749.753	6647083.585	0.000	
IP 9	90.006	507745.955	6647083.402	0.000	
IP 10	93.619	507742.380	6647083.927	0.000	
IP 11	103.553	507732.861	6647086.767	0.000	
IP 12	113.486	507723.452	6647089.951	0.000	
IP 13	119.797	507717.511	6647092.082	0.000	
IP 14	145.116	507693.326	6647099.573	0.000	
IP 15	151.325	507690.005	6647104.819	0.000	
IP 16	191.230	507728.794	6647095.445	0.000	
IP 17	194.744	507730.154	6647098.686	0.000	
IP 18	209.151	507743.910	6647094.404	0.000	
IP 19	218.276	507751.150	6647088.850	0.000	
IP 20	231.347	507764.218	6647089.083	0.000	
IP 21	251.916	507784.170	6647084.083	0.000	
IP 22	271.517	507803.161	6647079.232	0.000	
IP 23	304.710	507770.001	6647077.755	0.000	
IP 24	308.210	507770.586	6647081.206	0.000	
IP 25	357.753	507819.432	6647072.923	0.000	
IP 26	374.582	507835.077	6647066.719	0.000	
IP 27	377.979	507836.304	6647069.887	0.000	
IP 28	389.720	507847.797	6647067.486	0.000	
IP 29	394.078	507850.536	6647064.098	0.000	
IP 30	420.602	507876.885	6647061.052	0.000	
IP 31	443.542	507899.577	6647057.681	0.000	
IP 32	466.483	507922.517	6647057.519	0.000	
IP 33	509.917	507879.116	6647059.251	0.000	
IP 34	720.261	508078.661	6647125.782	0.000	
IP 35	758.795	508112.611	6647144.011	0.000	
IP 36	775.950	508127.896	6647151.800	0.000	
IP 37	793.105	508143.500	6647158.926	0.000	
IP 38	796.969	508141.307	6647155.745	0.000	
IP 39	800.833	508138.071	6647153.632	0.000	
IP 40	810.769	508128.890	6647149.835	0.000	
IP 41	830.741	508110.629	6647141.746	0.000	
IP 42	850.740	508092.622	6647133.045	0.000	
IP 43	902.257	508136.678	6647159.749	0.000	
IP 44	926.416	508159.006	6647168.973	0.000	
IP 45	935.803	508152.167	6647162.542	0.000	
IP 46	939.006	508153.269	6647159.535	0.000	
IP 47	955.693	508168.938	6647165.275	0.000	
IP 48	959.094	508167.584	6647168.396	0.000	
IP 49	981.914	508189.944	6647172.952	0.000	
IP 50	988.839	508191.462	6647179.708	0.000	
IP 51	992.339	508192.420	6647176.342	0.000	
IP 52	999.419	508197.191	6647171.111	0.000	
IP 53	1028.141	508170.018	6647161.804	0.000	
IP 54	1060.856	508139.363	6647150.379	0.000	
IP 55	1110.569	508094.081	6647129.861	0.000	245°37'25.60"

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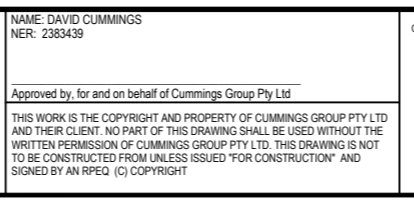
LOCAL AUTHORITY:	COFFS HARBOUR CITY COUNCIL
X FILE REF NO:	REF: 170 NORTH BOAMBEE ROAD
DP DESCRIPTION:	LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	22/07/2022
B	UPDATED ROAD AND BRIDGE ALIGNMENT FOR APPROVAL	ET	DC	27/07/2022
C	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023

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NER: 2383439

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CUMMINGS GROUP PTY LTD: PROJECT MANAGERS & CONSULTING ENGINEERS

CLIENT: COFFS HARBOUR CITY COUNCIL

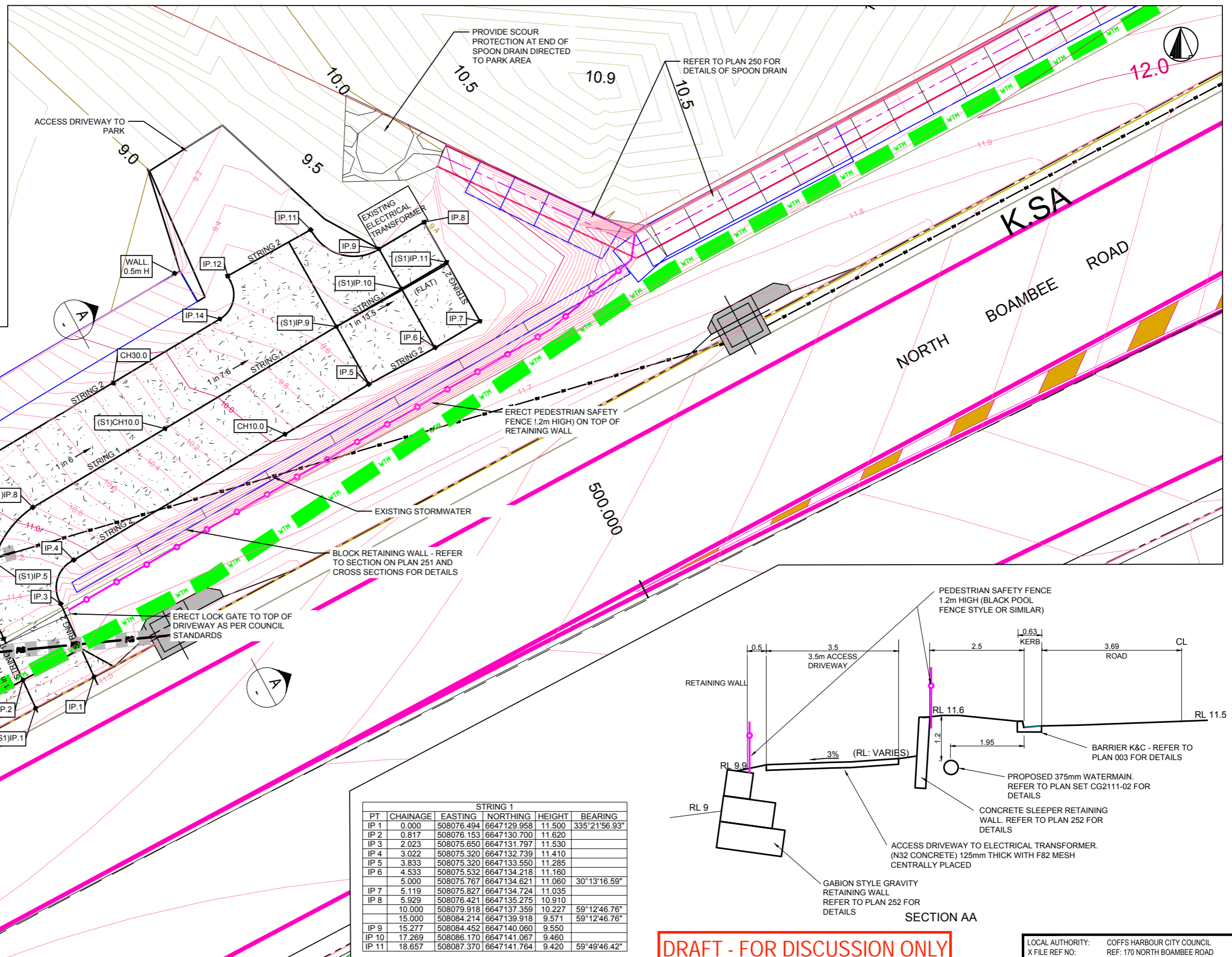
TITLE: LINEMARKING SETOUT TABLE  
SHEET 4 OF 4

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

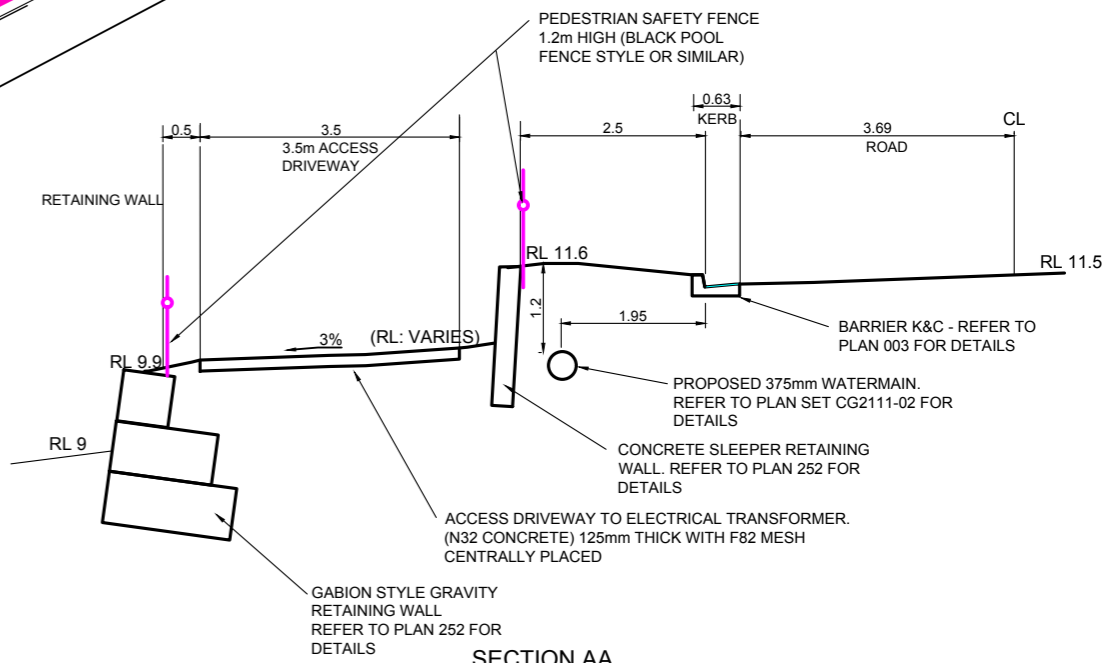
STATUS: FOR APPROVAL  
NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	OF
PROJECT No:	DRAWING No:	REV			
CG2111-01	233	D			

STRING 2					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	508078.037	6647130.794	11.505	335°28'31.85"
IP 2	1.974	508077.217	6647132.591	11.540	
IP 3	2.826	508077.087	6647133.432	11.300	
IP 4	3.440	508077.504	6647133.883	11.100	
	5.000	508078.844	6647134.681	10.772	59°13'32.91"
	10.000	508083.140	6647137.239	9.935	59°13'32.91"
IP 5	12.529	508085.313	6647138.533	9.600	
IP 6	14.521	508087.058	6647139.494	9.500	
	15.000	508087.469	6647139.739	9.483	59°15'39.62"
IP 7	15.909	508088.250	6647140.204	9.450	
IP 8	18.917	508086.772	6647142.824	9.400	
	20.000	508085.841	6647142.270	9.400	239°15'05.08"
IP 9	20.305	508085.579	6647142.115	9.400	
IP 10	21.341	508084.553	6647141.971	9.400	
IP 11	22.358	508083.772	6647142.622	9.350	
IP 12	24.874	508081.573	6647141.399	9.580	
	25.000	508081.597	6647141.275	9.584	169°17'21.19"
IP 13	25.589	508081.706	6647140.697	9.600	
IP 14	26.141	508081.368	6647140.260	9.650	
	30.000	508078.053	6647138.284	10.391	239°12'41.60"
IP 15	32.983	508075.491	6647136.758	10.880	
IP 16	34.401	508074.447	6647135.799	11.000	
	35.000	508074.163	6647135.271	11.041	208°16'47.15"
IP 17	35.849	508073.760	6647134.523	11.110	
IP 18	36.991	508073.543	6647133.402	11.200	
IP 19	38.267	508073.657	6647132.131	11.300	
IP 20	39.470	508074.092	6647131.010	11.500	
	40.000	508074.312	6647130.527	11.538	155°28'31.85"
IP 21	40.730	508074.615	6647129.863	11.590	
IP 22	41.533	508074.948	6647129.132	11.500	155°28'47.86"



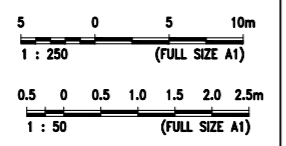
STRING 1					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	508076.494	6647129.958	11.500	335°21'56.93"
IP 2	0.817	508076.153	6647130.700	11.620	
IP 3	2.023	508075.650	6647131.797	11.530	
IP 4	3.022	508075.320	6647132.739	11.410	
IP 5	3.833	508075.320	6647133.550	11.285	
IP 6	4.533	508075.532	6647134.218	11.160	
	5.000	508075.767	6647134.621	11.060	30°13'16.59"
IP 7	5.119	508075.827	6647134.724	11.035	
IP 8	5.929	508076.421	6647135.275	10.910	
	10.000	508079.918	6647137.359	10.227	59°12'46.76"
	15.000	508084.214	6647139.918	9.571	59°12'46.76"
IP 9	15.277	508084.452	6647140.060	9.550	
IP 10	17.269	508086.170	6647141.067	9.460	
IP 11	18.657	508087.370	6647141.764	9.420	59°49'46.42"



**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP 1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	ET	DC	29/07/2022
B	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
C	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	02/12/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



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 NER: 2383439  
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GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

TITLE: ACCESS DRIVEWAY AND RETAINING DETAILS SHEET 1 OF 2

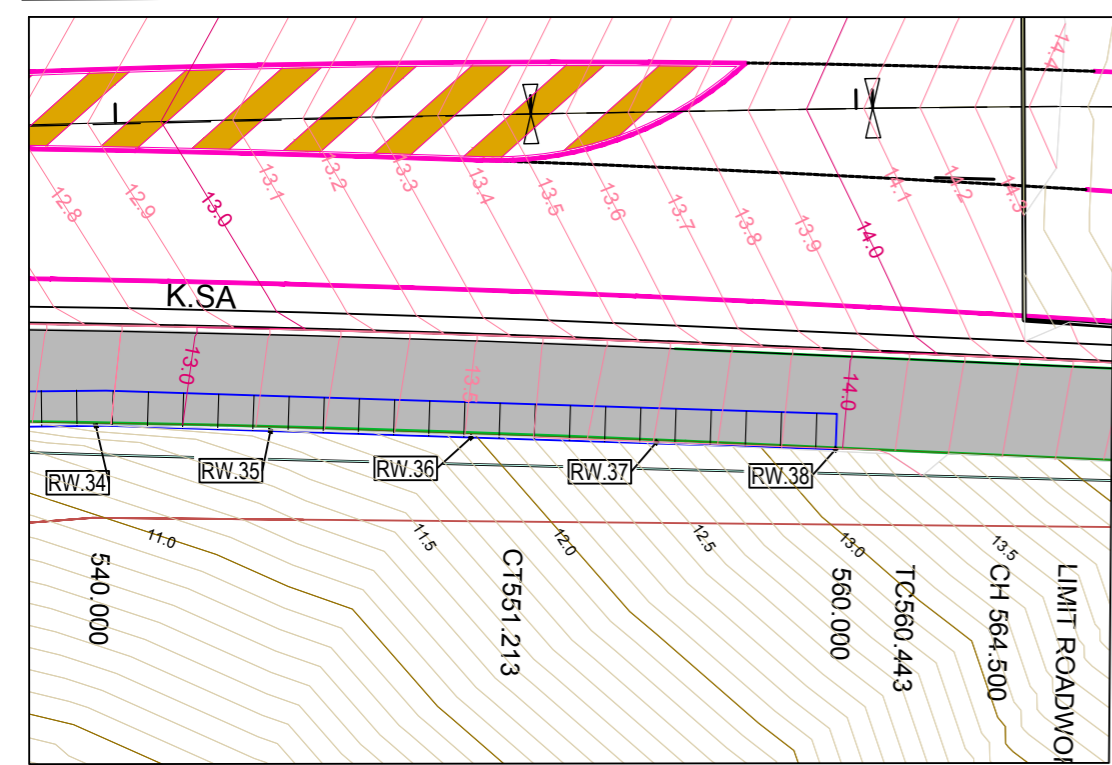
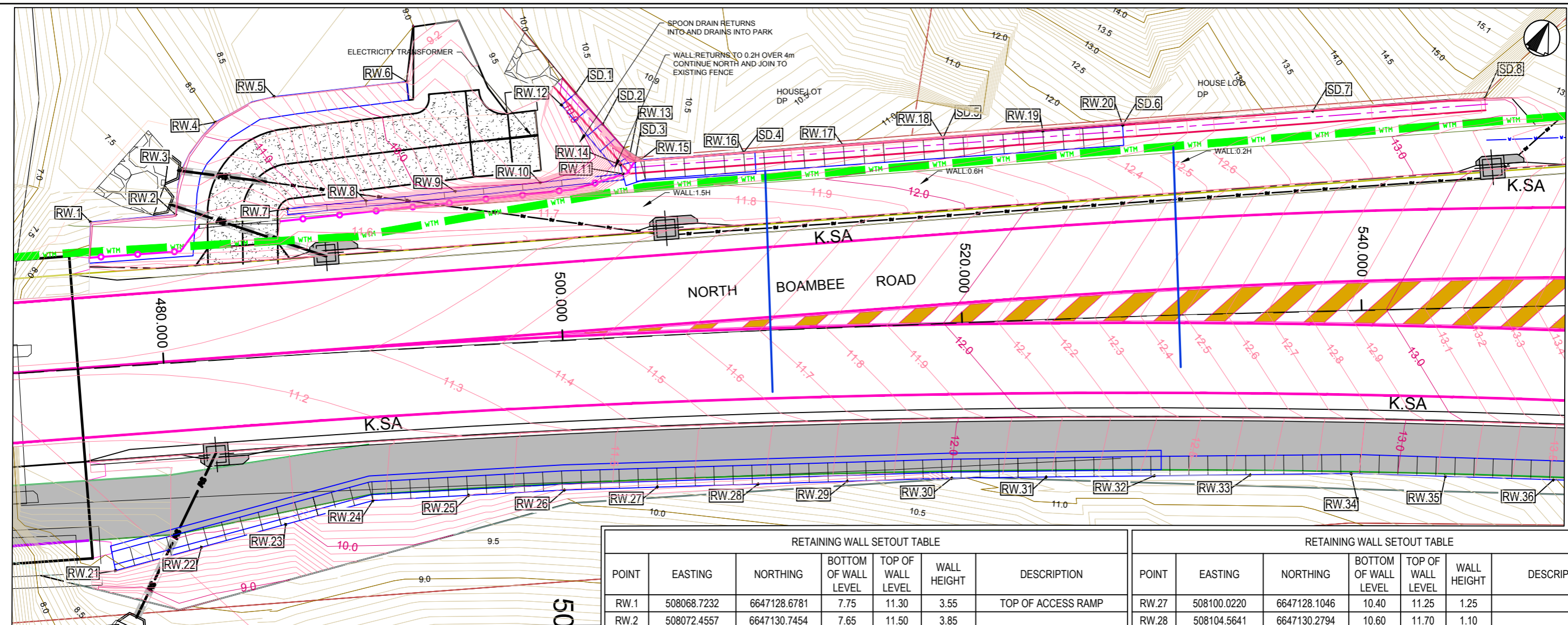
PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE: NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

FOR APPROVAL NOT FOR CONSTRUCTION

DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:1000	OF

PROJECT NO: CG2111-01  
 DRAWING NO: 250  
 REV: D

DWG FILE: I:\projects\2022\170 North Boambee Road and Brigalow CG2111-01\250-011 ACCESS DRIVEWAY AND RETAINING WALL DETAILS.dwg - SMPLOTTIME: 19 Jun 2023 2:40pm



RETAINING WALL SETOUT TABLE						
POINT	EASTING	NORTHING	BOTTOM OF WALL LEVEL	TOP OF WALL LEVEL	WALL HEIGHT	DESCRIPTION
RW.1	508068.7232	6647128.6781	7.75	11.30	3.55	TOP OF ACCESS RAMP
RW.2	508072.4557	6647130.7454	7.65	11.50	3.85	
RW.3	508071.8250	6647132.9891	7.60	11.15	3.55	
RW.4	508072.3871	6647135.7772	8.00	10.95	2.95	
RW.5	508074.5672	6647138.1492	8.90	10.65	1.75	
RW.6	508080.3126	6647141.5353	9.10	9.40	0.30	BOTTOM OF ACCESS
RW.7	508077.4531	6647133.2864	11.30	11.60	0.30	TOP OF ACCESS RAMP
RW.8	508080.8795	6647135.2514	10.50	11.60	1.10	
RW.9	508084.7633	6647137.5027	9.90	11.70	1.80	
RW.10	508088.4685	6647139.6275	9.50	11.70	2.20	
RW.11	508092.0735	6647141.7190	9.50	11.60	2.10	
RW.12	508087.8578	6647143.6106	9.50	10.10	0.60	START OF SPOON DRAIN
RW.13	508092.0043	6647142.7058	9.50	11.50	2.00	
RW.14	508091.7760	6647142.0666	10.10	11.60	1.50	
RW.15	508092.5712	6647142.7065	10.10	11.60	1.50	
RW.16	508097.1522	6647145.1000	10.60	11.60	1.00	
RW.17	508101.5628	6647147.5055	11.00	11.80	0.80	
RW.18	508105.9697	6647149.8618	11.40	11.80	0.40	
RW.19	508110.3849	6647152.2175	11.70	12.00	0.30	
RW.20	508113.8942	6647154.1138	12.10	12.10	0	END OF RW ON NORTH SIDE
RW.21	508076.9625	6647113.2463	9.00	11.30	2.30	START OF RW ON SOUTH SIDE
RW.22	508080.4081	6647116.0596	9.20	11.20	2.00	
RW.23	508083.7901	6647118.8209	10.00	11.20	1.20	
RW.24	508087.2998	6647121.6865	10.60	11.30	0.70	
RW.25	508091.5677	6647123.8756	10.50	11.35	0.85	
RW.26	508095.8355	6647126.0647	10.30	11.45	1.15	

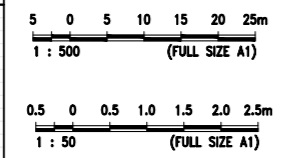
RETAINING WALL SETOUT TABLE						
POINT	EASTING	NORTHING	BOTTOM OF WALL LEVEL	TOP OF WALL LEVEL	WALL HEIGHT	DESCRIPTION
RW.27	508100.0220	6647128.1046	10.40	11.25	1.25	
RW.28	508104.5641	6647130.2794	10.60	11.70	1.10	
RW.29	508108.5808	6647132.2272	10.80	11.80	1.00	
RW.30	508113.2927	6647134.4941	11.00	12.00	1.00	
RW.31	508117.5895	6647136.4684	11.20	12.20	1.00	
RW.32	508122.5013	6647138.7253	11.40	12.45	1.15	
RW.33	508126.8647	6647140.7143	11.40	12.65	1.25	
RW.34	508131.4484	6647142.8427	11.60	12.90	1.30	
RW.35	508135.8131	6647144.6263	11.70	13.10	1.40	
RW.36	508140.8320	6647146.6651	12.00	13.50	1.50	
RW.37	508145.4518	6647148.5903	12.70	13.70	1.00	
RW.38	508149.9498	6647150.3846	13.30	14.00	0.70	END OF RW ON SOUTH SIDE

SPOON DRAIN SETOUT TABLE				
POINT	EASTING	NORTHING	LEVEL	DESCRIPTION
SD.1	508088.2686	6647144.4320	10.20	ALIGNED WITH SETOUT RW.12
SD.2	508090.1335	6647143.5638	10.60	
SD.3	508092.5179	6647142.6525	11.60	
SD.4	508097.1530	6647145.1488	11.60	
SD.5	508105.9736	6647149.8602	11.80	
SD.6	508113.9159	6647154.1138	12.10	ALIGNED WITH SETOUT RW.20
SD.7	508122.3062	6647158.6214	12.80	
SD.8	508129.9204	6647162.7121	12.90	END OF SPOON DRAIN

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LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP 1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	ET	DC	28/07/2022
B	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
C	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	02/12/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



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CUMMINGS GROUP PTY LTD: PROJECT MANAGERS & CONSULTING ENGINEERS

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 PH: 5641 1100, E: CUMMINGSGROUP@ICLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE: NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

TITLE: ACCESS DRIVEWAY AND RETAINING DETAILS SHEET 2 OF 3

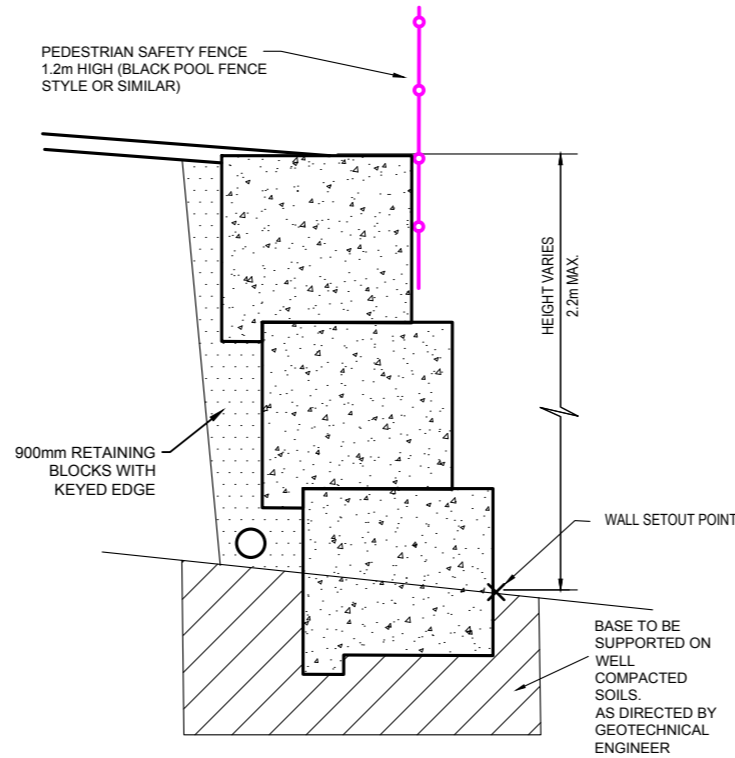
DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:1000	OF
PROJECT NO: CG2111-01			DRAWING No: 251	REV	D

FOR APPROVAL  
NOT FOR CONSTRUCTION

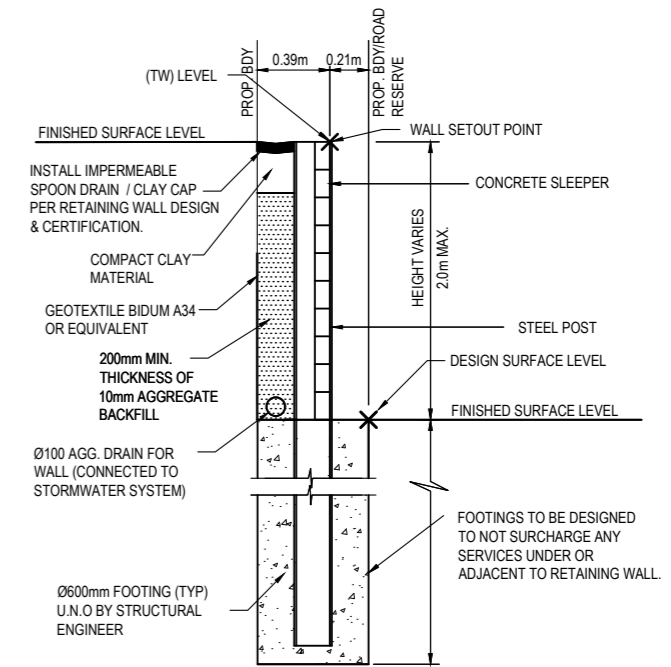
DWG FILE: I:\assets\pdm\170 Boambee Road and Brigalua Road\Access Driveway and Retaining Wall Details.dwg - SMPLOT TIME: 19 Jan 2023 10:00am

**RETAINING WALL NOTES:**

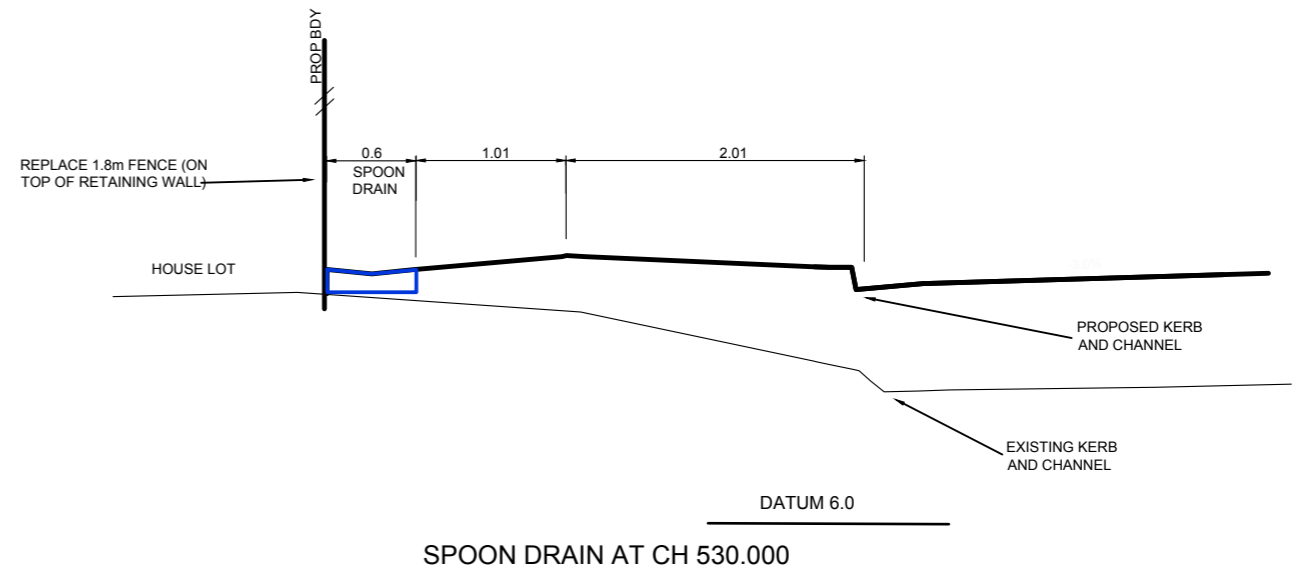
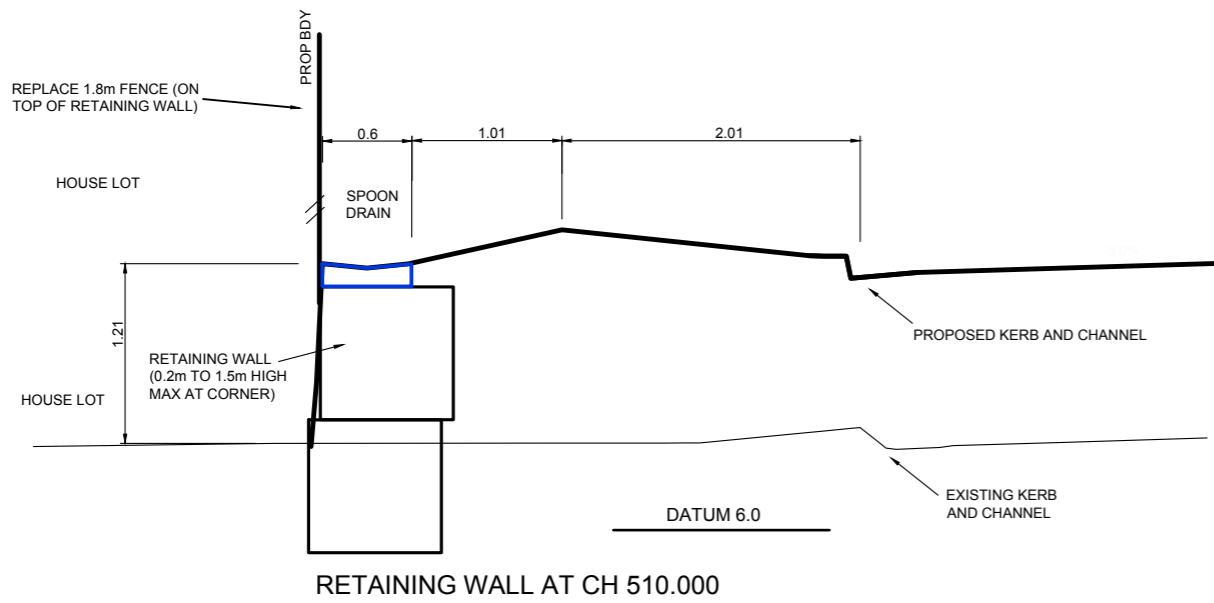
1. WALL ALIGNMENT IS TO BE PEGGED FOR INSPECTION BY SUPERINTENDENT PRIOR TO CONSTRUCTION.
2. WALLS TO BE A VERTICAL FACE TO A MAXIMUM HEIGHT OF 1.4m. OF CONCRETE SLEEPER TYPE. FINISH AND COLOUR TO BE APPROVED BY SUPERINTENDENT.
3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING STRUCTURAL DESIGN, CONSTRUCTION SUPERVISION AND STRUCTURAL CERTIFICATION BY A SUITABLY QUALIFIED AND EXPERIENCED, REGISTERED STRUCTURAL ENGINEER (RPEQ) FOR ALL WALLS 1.0m HIGH OR GREATER.
4. WALL TO BE DESIGNED FOR A MINIMUM SERVICE LIFE OF 60 YEARS.
5. THE STANDARD BUILDING REGULATION 1993 REQUIRES THAT A BUILDING APPLICATION BE LODGED FOR EARTH RETAINING STRUCTURES >1000mm HIGH.
6. ALL WALLS TO BE DESIGNED BASED ON A GEOTECHNICAL ASSESSMENT OF INSITU SOILS BY A SUITABLY QUALIFIED ENGINEER
7. ALL COUNCIL RETAINING WALLS TO BE CONSTRUCTED IN THE ROAD RESERVE WHERE POSSIBLE.
8. ALL PRIVATE WALLS INCLUDING FOOTING TO BE CONTAINED WHOLLY WITHIN PRIVATE PROPERTY.
9. SUBSOIL DRAINAGE BEHIND ALL WALLS TO INCLUDE DISCHARGE PIPE INTO THE NEAREST STORMWATER STRUCTURE (OR DEDICATED KERB ADAPTOR) AND MUST BE FREE DRAINING. ALL WALL DRAINAGE LINES DISCHARGING THROUGH LOTS OR ROAD VERGE TO BE SOLID uPVC (NO SLOTS) AND MUST BE FREE DRAINING.
10. FOOTINGS TO BE CONTAINED WHOLLY WITHIN LOT IN WHICH WALL IS LOCATED.



DESIGN & CERTIFICATION BY CONTRACTOR (AND STRUCTURAL ENGINEER).  
**CONCRETE BLOCK STYLE GRAVITY RETAINING WALL**  
 TYPICAL SECTION DETAIL  
 SCALE: 1:20



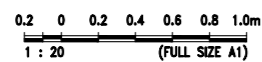
DESIGN & CERTIFICATION BY CONTRACTOR (AND STRUCTURAL ENGINEER).  
 CONCRETE FENCE TYPE/DESIGN TO BE CONSIDERED/ALLOWED FOR IN WALL CERTIFICATION.  
**CONCRETE SLEEPER RETAINING WALL**  
 TYPICAL SECTION DETAIL  
 SCALE: 1:20



**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	ET	DC	28/07/2022
B	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
C	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	02/12/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME: DAVID CUMMINGS  
 NER: 2383439  
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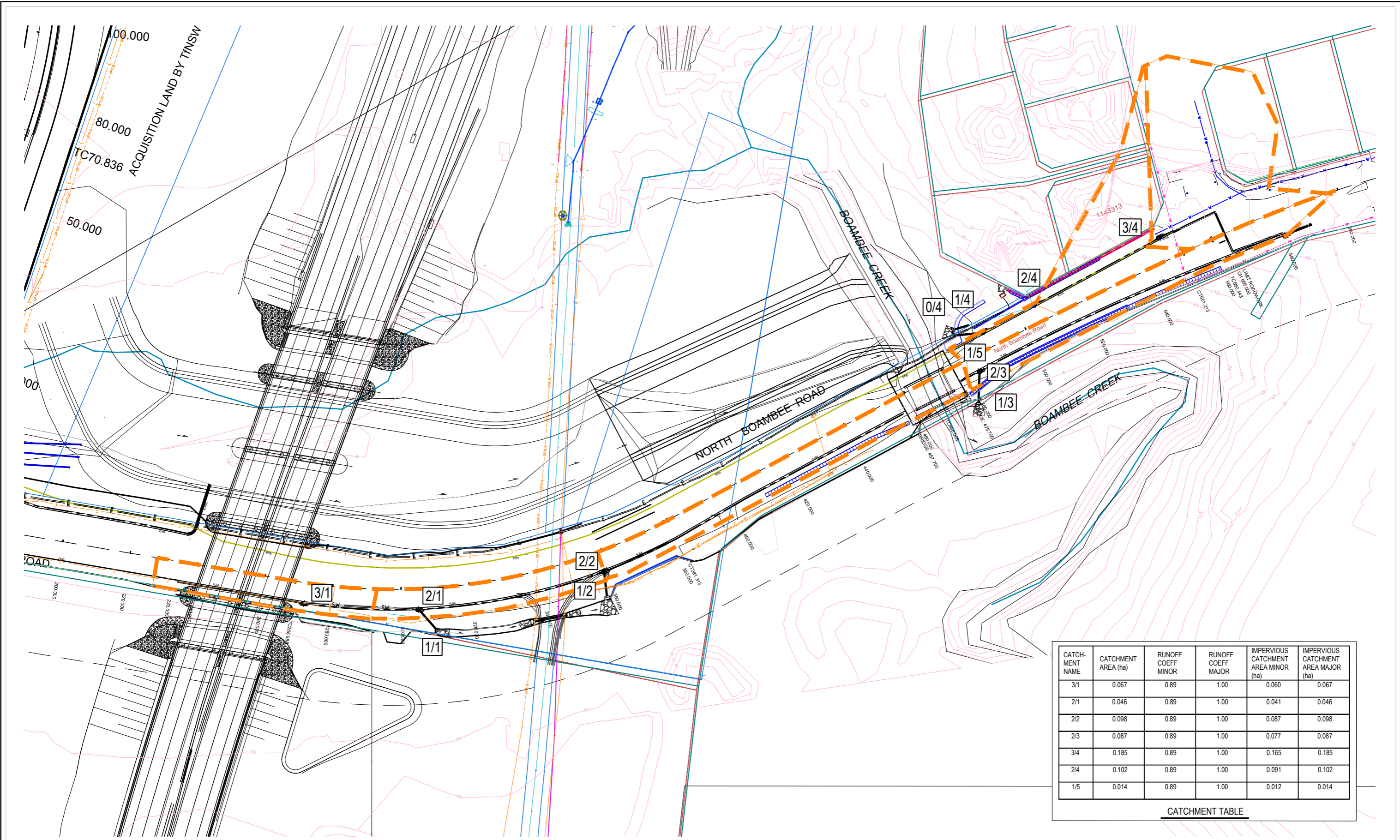
CUMMINGS GROUP PTY LTD. PROJECT MANAGERS & CONSULTING ENGINEERS

GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL  
 TITLE: RETAINING DETAILS AND NOTES SHEET 3 OF 3

PROJECT		STATUS		DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL		FOR APPROVAL NOT FOR CONSTRUCTION		JA	JA	DC	04.02.2022	1:20	of
PROJECT No	DRAWING No	REV							
CG2111-01	252	D							

DWG FILE: C:\Users\dmccm\Documents\cpgp-coast\cpgp-coast\CG2111-01-Boambee-Road-and-Bridge\DWG\CG2111-01-Boambee-Road-and-Bridge\DWG\CG2111-01-Boambee-Road-and-Bridge\RETAINING WALL DETAILS.dwg - IMPLOTT TIME: 19 Mar 2023, 10:56am



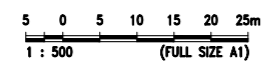
CATCHMENT NAME	CATCHMENT AREA (ha)	RUNOFF COEFF MINOR	RUNOFF COEFF MAJOR	IMPERVIOUS CATCHMENT AREA MINOR (ha)	IMPERVIOUS CATCHMENT AREA MAJOR (ha)
3/1	0.067	0.89	1.00	0.060	0.067
2/1	0.046	0.89	1.00	0.041	0.046
2/2	0.098	0.89	1.00	0.087	0.098
2/3	0.087	0.89	1.00	0.077	0.087
3/4	0.185	0.89	1.00	0.165	0.185
2/4	0.102	0.89	1.00	0.091	0.102
1/5	0.014	0.89	1.00	0.012	0.014

**CATCHMENT TABLE**

DRAFT - FOR DISCUSSION ONLY

LOCAL AUTHORITY: COFFS HARBOUR CITY COUNCIL  
 X FILE REF NO: REF: 170 NORTH BOAMBEE ROAD  
 DP DESCRIPTION: LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	15/07/2022
B	UPDATED DETAILS FOR APPROVAL	ET	DC	27/07/2022
C	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



NAME: DAVID CUMMINGS  
 NER: 2383439

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CUMMINGS GROUP PTY LTD. PROJECT MANAGERS & CONSULTING ENGINEERS

GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA: QLD 4221  
 PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT: COFFS HARBOUR CITY COUNCIL

TITLE: LOCAL CATCHMENT PLAN

PROJECT: ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR CITY COUNCIL

STATUS: FOR APPROVAL  
NOT FOR CONSTRUCTION

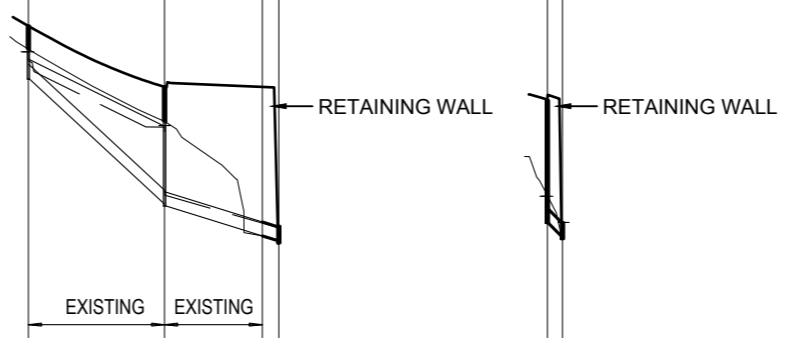
DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
JA	JA	DC	04.02.2022	1:500	of
PROJECT No: CG2111-01			DRAWING No: 300	REV D	

D:\G:\Projects\2021\170 Boambee Road and Bridge Upgrade\2021\170 Boambee Road and Bridge Upgrade\2021\170 Boambee Road and Bridge Upgrade\CATCHMENT.Plan.dwg - 18 Mar 2023 1:15pm



STRUCTURE NAME
STRUCTURE DESCRIPTION

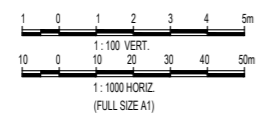
LINE	STRUCTURE NAME	STRUCTURE DESCRIPTION	PIPE SIZE (mm Class)	PIPE GRADE %	PIPE SLOPE 1 in X	FULL PIPE FLOW VELOCITY (m/s)	PART FULL FLOW VELOCITY (m/s)	WATER LEVEL IN STRUCTURE	HYDRAULIC GRADE LEVEL	PIPE FLOW (Cumecs)	PIPE CAPACITY AT GRADE (Cumecs)	DEPTH TO INVERT	INVERT LEVEL OF DRAIN	DESIGN SURFACE LEVEL	SETOUT	RUNNING CHAINAGE
1	SAG KERB INLET PIT 3/1	1.0m Inlet	375(3)	0.91%	110.26	0.31	1.19 (0.96 1y)	8.988	8.988	0.034	0.167	0.950	8.800	9.750	E507881.677	0.000
			375(3)	0.50%	199.00	0.51	1.10 (0.89 1y)	8.839	8.839	0.057	0.124	1.202	8.620	9.822	N6647053.274	33.530
			375(3)	6.65%	15.05	0.45	2.68 (2.13 1y)	8.777	8.777	0.050	0.452	1.172	9.000	8.900	E507915.086	7.950
			375(3)	13.73%	7.28	0.40	3.34 (2.66 1y)	8.677	8.677	0.044	0.649	1.648	9.400	8.862	N6647051.520	41.490
2	KERB INLET PIT 2/2	1.0m Inlet	375(3)	6.65%	15.05	0.45	2.68 (2.13 1y)	9.479	9.479	0.050	0.452	1.172	9.000	10.172	E507969.2162	0.000
			375(3)	13.73%	7.28	0.40	3.34 (2.66 1y)	8.583	8.583	0.044	0.649	1.648	9.400	8.900	N6647062.551	7.524
			375(3)	6.65%	15.05	0.45	2.68 (2.13 1y)	8.583	8.583	0.050	0.452	1.172	9.000	8.900	E507970.217	7.524
			375(3)	13.73%	7.28	0.40	3.34 (2.66 1y)	8.583	8.583	0.044	0.649	1.648	9.400	8.862	N6647054.722	7.524
3	KERB INLET PIT 2/3	1.0m Inlet	375(3)	13.73%	7.28	0.40	3.34 (2.66 1y)	9.858	9.858	0.044	0.649	1.648	9.400	11.075	E508075.680	0.000
			375(3)	6.65%	15.05	0.45	2.68 (2.13 1y)	8.366	8.366	0.044	0.649	1.648	9.400	8.862	N6647119.358	8.013
			375(3)	13.73%	7.28	0.40	3.34 (2.66 1y)	8.366	8.366	0.044	0.649	1.648	9.400	8.862	E508078.875	8.013
			375(3)	6.65%	15.05	0.45	2.68 (2.13 1y)	8.366	8.366	0.044	0.649	1.648	9.400	8.862	N6647111.526	8.013
4	RAISE EXISTING KERB INLET PIT 3/4	1.0m Inlet	375(2)	8.31%	12.03	0.65	2.69 (2.24 1y)	12.405	12.405	0.071	0.389	1.445	11.655	13.100	E508131.932	0.000
			375(2)	4.07%	24.58	1.09	1.53 (1.27 1y)	10.371	10.371	0.120	0.350	3.235	8.210	11.445	N6647159.207	41.450
			375(3)	4.07%	24.58	1.14	4.89 (3.88 1y)	8.302	8.302	0.125	0.350	4.010	7.390	11.400	E508095.406	20.155
			375(3)	4.07%	24.58	1.14	4.89 (3.88 1y)	7.875	7.875	0.125	0.350	4.010	7.390	11.400	N6647139.5978	61.605
5	KERB INLET PIT 1/5	1.0m Inlet	375(3)	14%	7.14	0.08	1.60 (1.20 1y)	10.233	10.233	0.009	0.447	3.272	7.763	11.075	E508071.660	0.000
			375(3)	14%	7.14	0.08	1.60 (1.20 1y)	8.302	8.302	0.009	0.447	3.272	7.763	7.750	N6647126.847	2.950
			375(3)	14%	7.14	0.08	1.60 (1.20 1y)	8.302	8.302	0.009	0.447	3.272	7.763	7.750	E508070.764	2.950
			375(3)	14%	7.14	0.08	1.60 (1.20 1y)	8.302	8.302	0.009	0.447	3.272	7.763	7.750	N6647130.067	2.950



**DRAFT - FOR DISCUSSION ONLY**

LOCAL AUTHORITY:	COFFS HARBOUR CITY COUNCIL
X FILE REF NO:	REF: 170 NORTH BOAMBEE ROAD
DP DESCRIPTION:	LOT 1 DP1268665

REV	DESCRIPTION	BY	SDR	DATE
A	ORIGINAL ISSUE	JA	DC	04.02.22
B	UPDATED DETAILS FOR APPROVAL	ET	DC	05/08/2022
C	UPDATED DETAILS FOR APPROVAL	ET	DC	18/08/2022
D	UPDATED DETAILS FOR COUNCIL APPROVAL	ET	DC	20/01/2023



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NER: 2383439

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GOLD COAST: PALM BEACH: PO BOX 1288 - ELANORA QLD 4221  
PH: 5641 1100, E: CUMMINGSGROUP@CLOUD.COM

CLIENT	COFFS HARBOUR CITY COUNCIL
TITLE	STORMWATER DRAINAGE LONGITUDINAL SECTIONS

PROJECT	ROAD UPGRADE (FROM 170 NORTH BOAMBEE RD TO HIGHLANDER DR) AND BRIDGE UPGRADE : NORTH BOAMBEE ROAD, COFFS HARBOUR
STATUS	FOR APPROVAL NOT FOR CONSTRUCTION
DESIGNED	JA
DRAWN	JA
APPROVED	DC
DATE	04.02.2022
SCALE @ A1	1:1000
SHEET	of
PROJECT No	CG2111-01
DRAWING No	301
REV	D

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