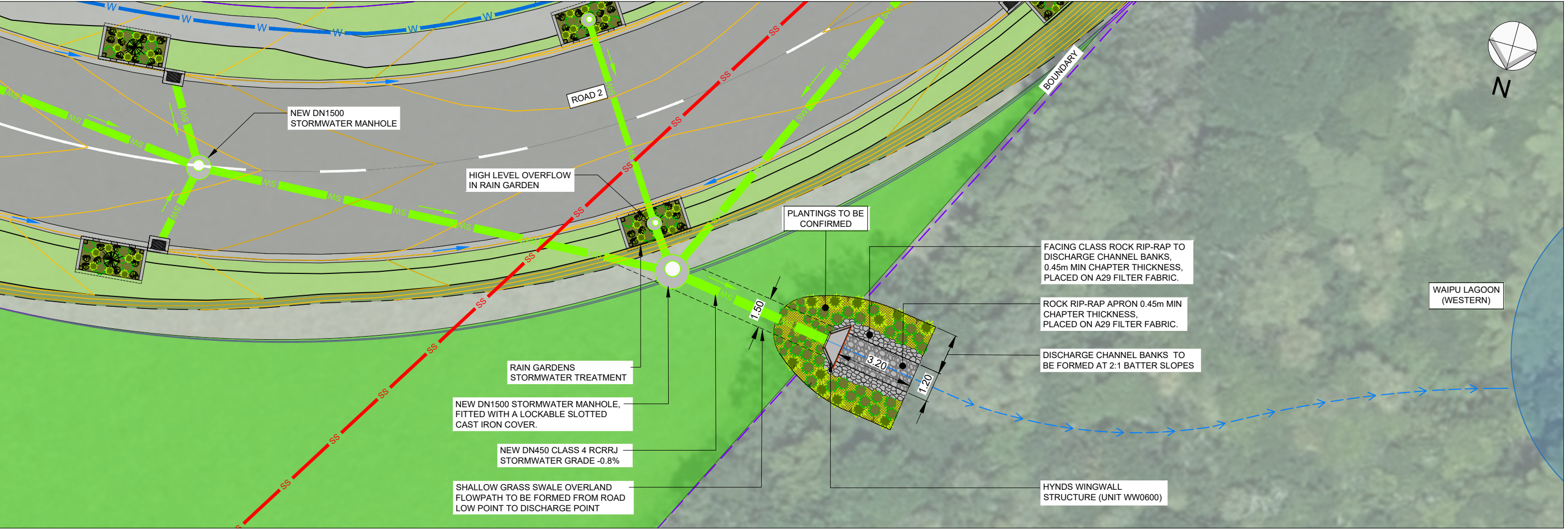
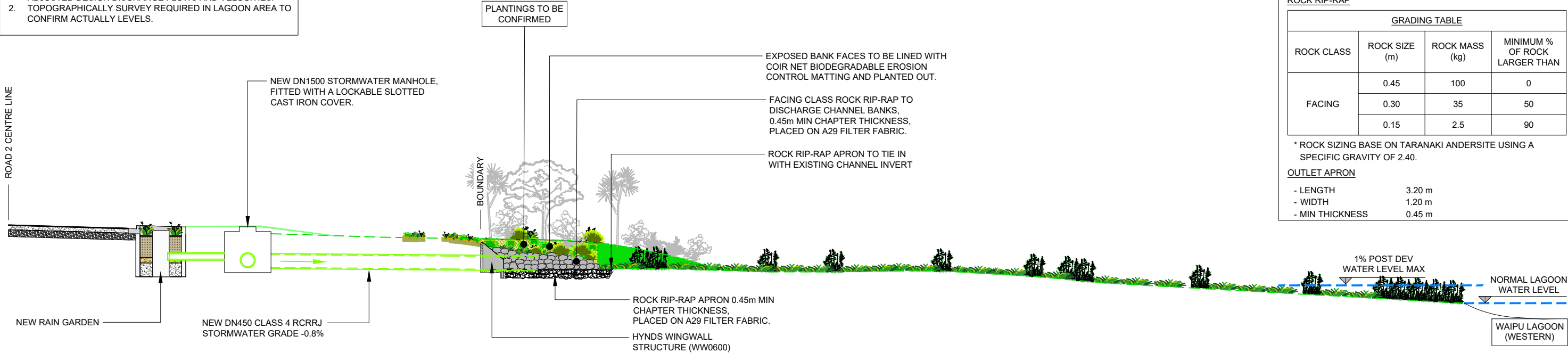


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LAYOUT PLAN - STORMWATER DISCHARGE POINT 2
SCALE 1:200

- NOTES:
1. FINAL UPSTREAM STORMWATER CATCHMENT AREA YET TO BE CONFIRMED. FINAL CATCHMENT MAY RESULT IN ADJUSTED DESIGN DISCHARGE FLOWS AND VELOCITIES.
 2. TOPOGRAPHICALLY SURVEY REQUIRED IN LAGOON AREA TO CONFIRM ACTUALLY LEVELS.



TYPICAL SECTION - STORMWATER DISCHARGE POINT 2
SCALE 1:150

STORMWATER DISCHARGE POINT 2			
DESIGN PARAMETERS			
- DESIGN DISCHARGE FLOW	100 l/s		
- DESIGN DISCHARGE VELOCITY	1.36 m/s		
- CAPACITY OF DN375 CLASS 4 RCRRJ PIPE AT -0.8% GRADE	140 l/s		
ROCK RIP-RAP			
GRADING TABLE			
ROCK CLASS	ROCK SIZE (m)	ROCK MASS (kg)	MINIMUM % OF ROCK LARGER THAN
FACING	0.45	100	0
	0.30	35	50
	0.15	2.5	90
* ROCK SIZING BASE ON TARANAKI ANDERSITE USING A SPECIFIC GRAVITY OF 2.40.			
OUTLET APRON			
- LENGTH	3.20 m		
- WIDTH	1.20 m		
- MIN THICKNESS	0.45 m		

INFORMATION



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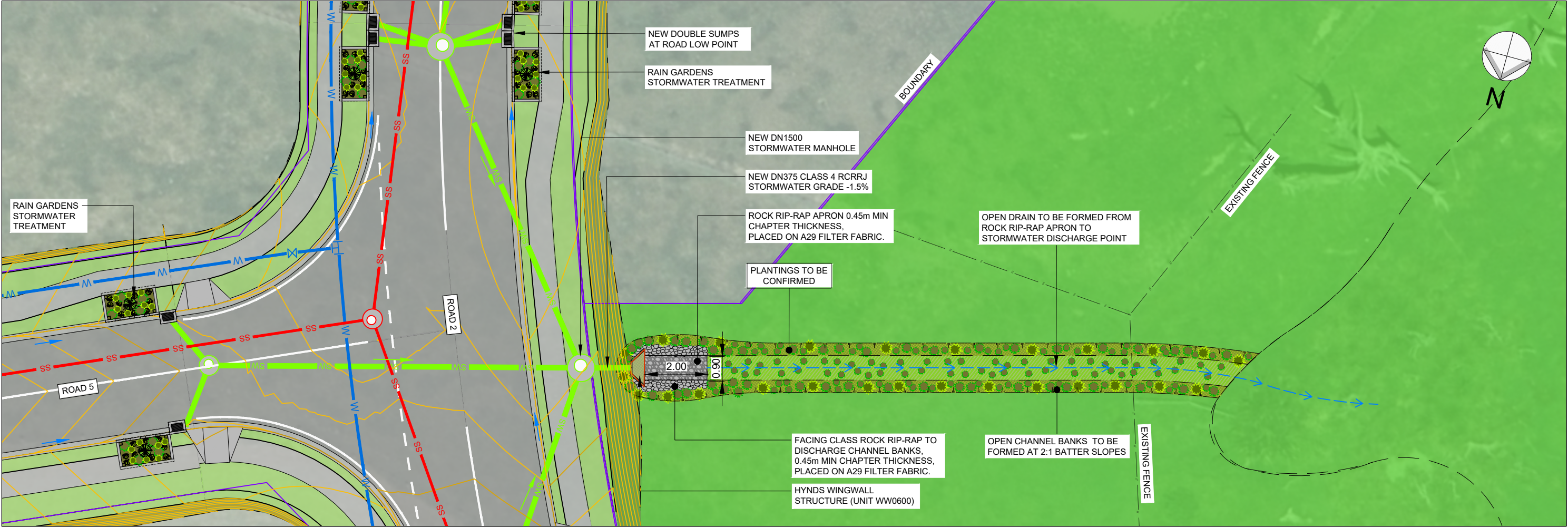
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PROPOSED RESIDENTIAL DEVELOPMENT
PARKLANDS AVENUE
BELL BLOCK

Sheet Title
STORMWATER DISCHARGE
POINT 2
PLAN AND TYPICAL SECTION

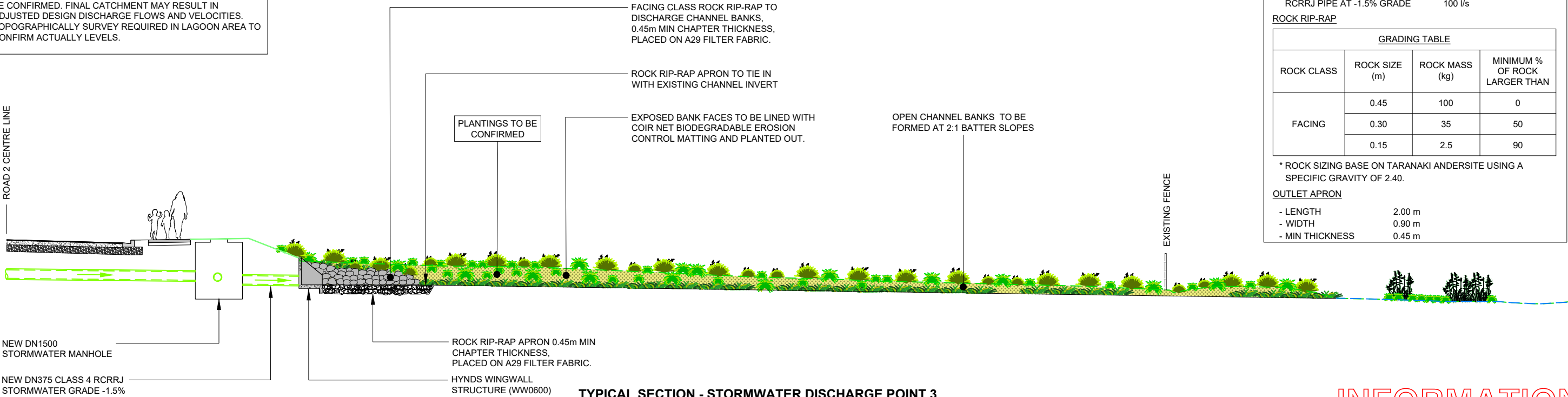
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LAYOUT PLAN - STORMWATER DISCHARGE POINT 3
SCALE 1:250

- NOTES:
1. FINAL UPSTREAM STORMWATER CATCHMENT AREA YET TO BE CONFIRMED. FINAL CATCHMENT MAY RESULT IN ADJUSTED DESIGN DISCHARGE FLOWS AND VELOCITIES.
 2. TOPOGRAPHICALLY SURVEY REQUIRED IN LAGOON AREA TO CONFIRM ACTUALLY LEVELS.



TYPICAL SECTION - STORMWATER DISCHARGE POINT 3
SCALE 1:150

STORMWATER DISCHARGE POINT 3			
DESIGN PARAMETERS			
- DESIGN DISCHARGE FLOW	60 l/s		
- DESIGN DISCHARGE VELOCITY	1.51 m/s		
- CAPACITY OF DN300 CLASS 4 RCRRJ PIPE AT -1.5% GRADE	100 l/s		
ROCK RIP-RAP			
GRADING TABLE			
ROCK CLASS	ROCK SIZE (m)	ROCK MASS (kg)	MINIMUM % OF ROCK LARGER THAN
FACING	0.45	100	0
	0.30	35	50
	0.15	2.5	90
* ROCK SIZING BASE ON TARANAKI ANDERSITE USING A SPECIFIC GRAVITY OF 2.40.			
OUTLET APRON			
- LENGTH	2.00 m		
- WIDTH	0.90 m		
- MIN THICKNESS	0.45 m		

INFORMATION



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PROPOSED RESIDENTIAL DEVELOPMENT
PARKLANDS AVENUE
BELL BLOCK

Sheet Title
STORMWATER DISCHARGE
POINT 3
PLAN AND TYPICAL SECTION

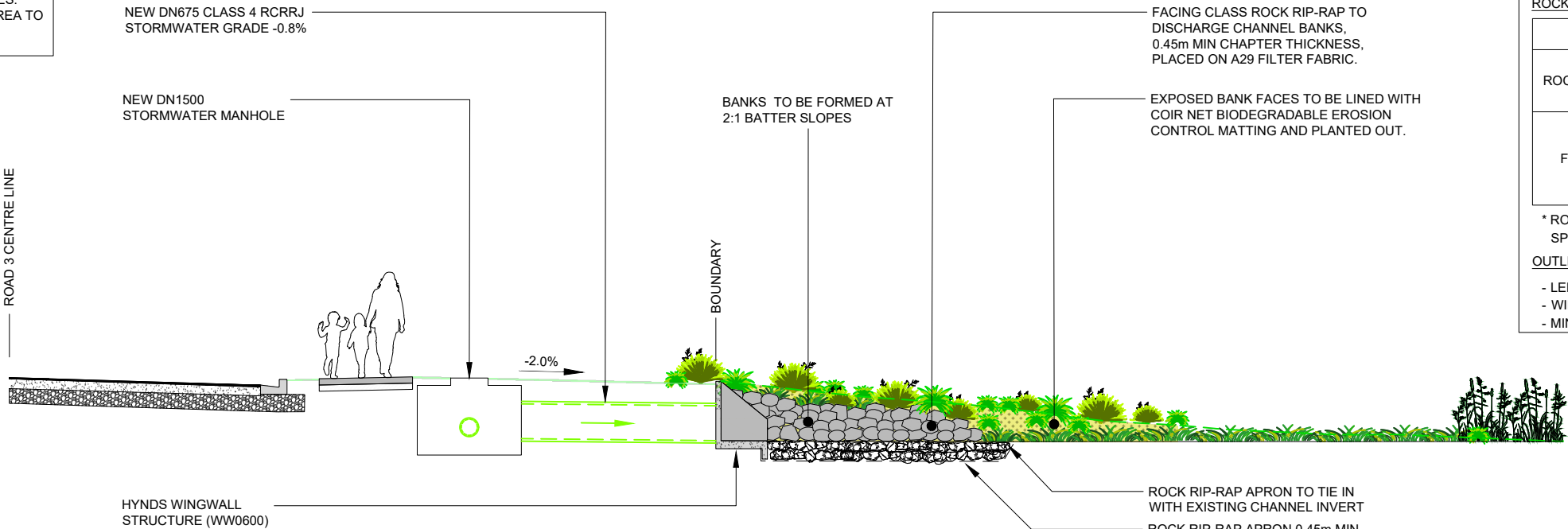
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LAYOUT PLAN - STORMWATER DISCHARGE POINT 4
SCALE 1:150

- NOTES:
1. FINAL UPSTREAM STORMWATER CATCHMENT AREA YET TO BE CONFIRMED. FINAL CATCHMENT MAY RESULT IN ADJUSTED DESIGN DISCHARGE FLOWS AND VELOCITIES.
 2. TOPOGRAPHICALLY SURVEY REQUIRED IN LAGOON AREA TO CONFIRM ACTUALLY LEVELS.



TYPICAL SECTION - STORMWATER DISCHARGE POINT 4
SCALE 1:100

STORMWATER DISCHARGE POINT 4			
DESIGN PARAMETERS			
- DESIGN DISCHARGE FLOW	510 l/s		
- DESIGN DISCHARGE VELOCITY	1.88 m/s		
- CAPACITY OF DN600 CLASS 4 RCRRJ PIPE AT -0.8% GRADE	512 l/s		
ROCK RIP-RAP			
GRADING TABLE			
ROCK CLASS	ROCK SIZE (m)	ROCK MASS (kg)	MINIMUM % OF ROCK LARGER THAN
FACING	0.45	100	0
	0.30	35	50
	0.15	2.5	90
* ROCK SIZING BASE ON TARANAKI ANDERSITE USING A SPECIFIC GRAVITY OF 2.40.			
OUTLET APRON			
- LENGTH	4.90 m		
- WIDTH	1.80 m		
- MIN THICKNESS	0.45 m		

INFORMATION



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PARKLANDS AVENUE
BELL BLOCK

Sheet Title
STORMWATER DISCHARGE
POINT 3
PLAN AND TYPICAL SECTION

A3	Sheet No. C2-9	Rev. A
File No. DWG-3917-C-01		