

FOR INFORMATION ONLY

REV	DATE	DRAWN	REV'D	APP'D	REVISION	DRAWING NUMBER	REFERENCE DRAWING TITLE
E	13.09.19	JWS	JS	IG	FOR INFORMATION ONLY		
D	12.09.19	JWS	JS	IG	FOR INFORMATION ONLY		
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A	27.08.19	JWS	JS	IG	FOR INFORMATION ONLY		



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NEW ZEALAND

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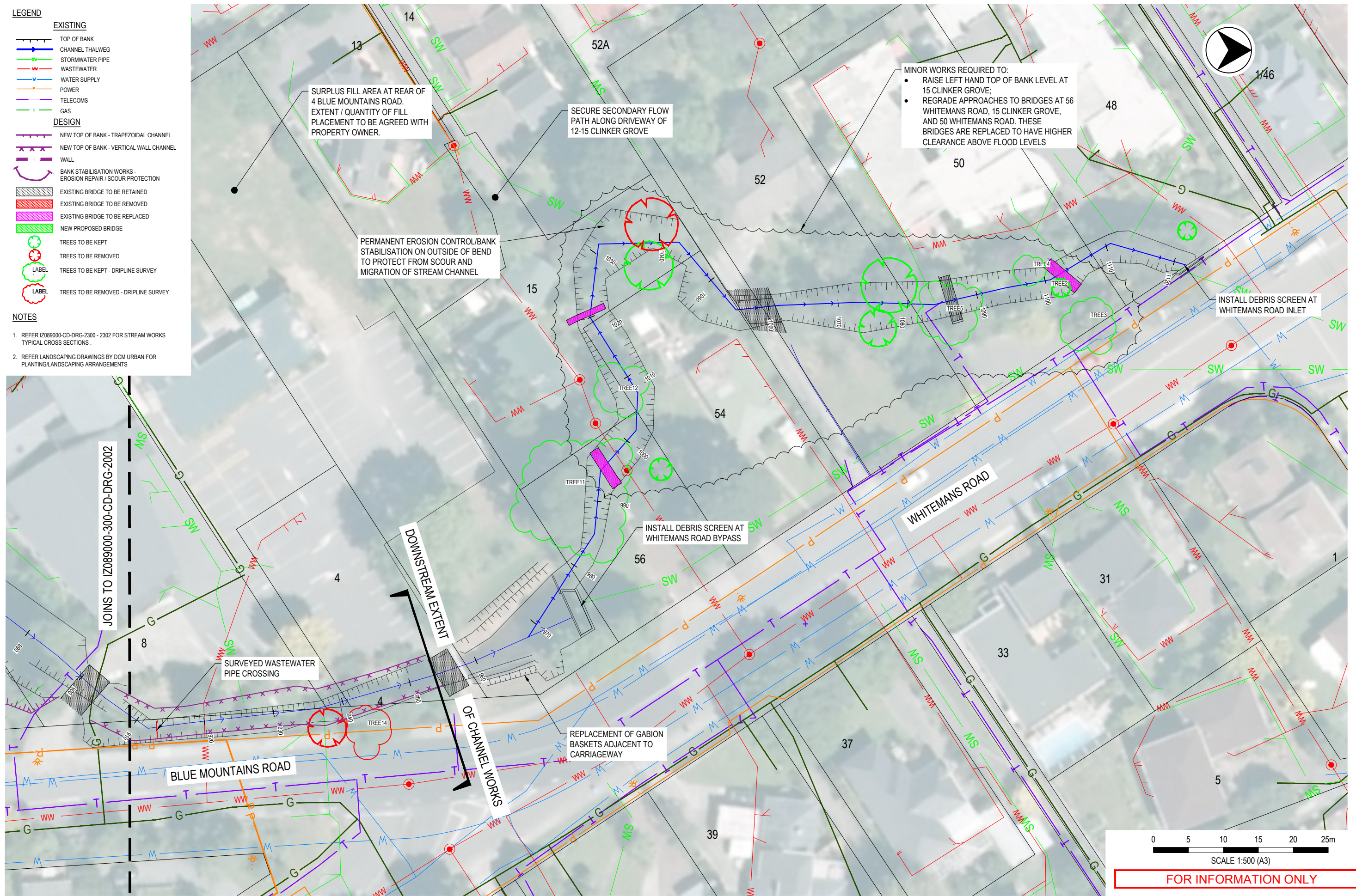
CLIENT WELLINGTON WATER		PROJECT PINEHAVEN STREAM IMPROVEMENTS	
DRAWN JWS	DRAWING CHECK DF	REVIEWED JS	APPROVED IG
DESIGNED JWS	DESIGN REVIEW DF	DATE 27.08.19	DATE 27.08.19

TITLE STREAM WORKS SHEET LAYOUT PLAN

SCALE 1:5000 @ A3 DRAWING No. IZ089000-300-CD-DRG-2000 REV E

LEGEND	
EXISTING	
	TOP OF BANK
	CHANNEL THALWEG
	STORMWATER PIPE
	WASTEWATER
	WATER SUPPLY
	POWER
	TELECOMS
	GAS
DESIGN	
	NEW TOP OF BANK - TRAPEZOIDAL CHANNEL
	NEW TOP OF BANK - VERTICAL WALL CHANNEL
	WALL
	BANK STABILISATION WORKS - EROSION REPAIR / SCOUR PROTECTION
	EXISTING BRIDGE TO BE RETAINED
	EXISTING BRIDGE TO BE REMOVED
	EXISTING BRIDGE TO BE REPLACED
	NEW PROPOSED BRIDGE
	TREES TO BE KEPT
	TREES TO BE REMOVED
	TREES TO BE KEPT - DRIPLINE SURVEY
	TREES TO BE REMOVED - DRIPLINE SURVEY

- NOTES**
- REFER IZ089000-CD-DRG-2300 - 2302 FOR STREAM WORKS TYPICAL CROSS SECTIONS .
 - REFER LANDSCAPING DRAWINGS BY DCM URBAN FOR PLANTING/LANDSCAPING ARRANGEMENTS



MINOR WORKS REQUIRED TO:

- RAISE LEFT HAND TOP OF BANK LEVEL AT 15 CLINKER GROVE;
- REGRADE APPROACHES TO BRIDGES AT 56 WHITEMANS ROAD, 15 CLINKER GROVE, AND 50 WHITEMANS ROAD. THESE BRIDGES ARE REPLACED TO HAVE HIGHER CLEARANCE ABOVE FLOOD LEVELS

SURPLUS FILL AREA AT REAR OF 4 BLUE MOUNTAINS ROAD. EXTENT / QUANTITY OF FILL PLACEMENT TO BE AGREED WITH PROPERTY OWNER.

SECURE SECONDARY FLOW PATH ALONG DRIVEWAY OF 12-15 CLINKER GROVE

PERMANENT EROSION CONTROL/BANK STABILISATION ON OUTSIDE OF BEND TO PROTECT FROM SCOUR AND MIGRATION OF STREAM CHANNEL

INSTALL DEBRIS SCREEN AT WHITEMANS ROAD INLET

INSTALL DEBRIS SCREEN AT WHITEMANS ROAD BYPASS

REPLACEMENT OF GABION BASKETS ADJACENT TO CARRIAGEWAY

JOINS TO IZ089000-300-CD-DRG-2002

DOWNSTREAM EXTENT OF CHANNEL WORKS

BLUE MOUNTAINS ROAD

SURVEYED WASTEWATER PIPE CROSSING

0 5 10 15 20 25m

SCALE 1:500 (A3)

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greater WELLINGTON
REGIONAL COUNCIL
Te Rau Matua Takao

Wellington Water

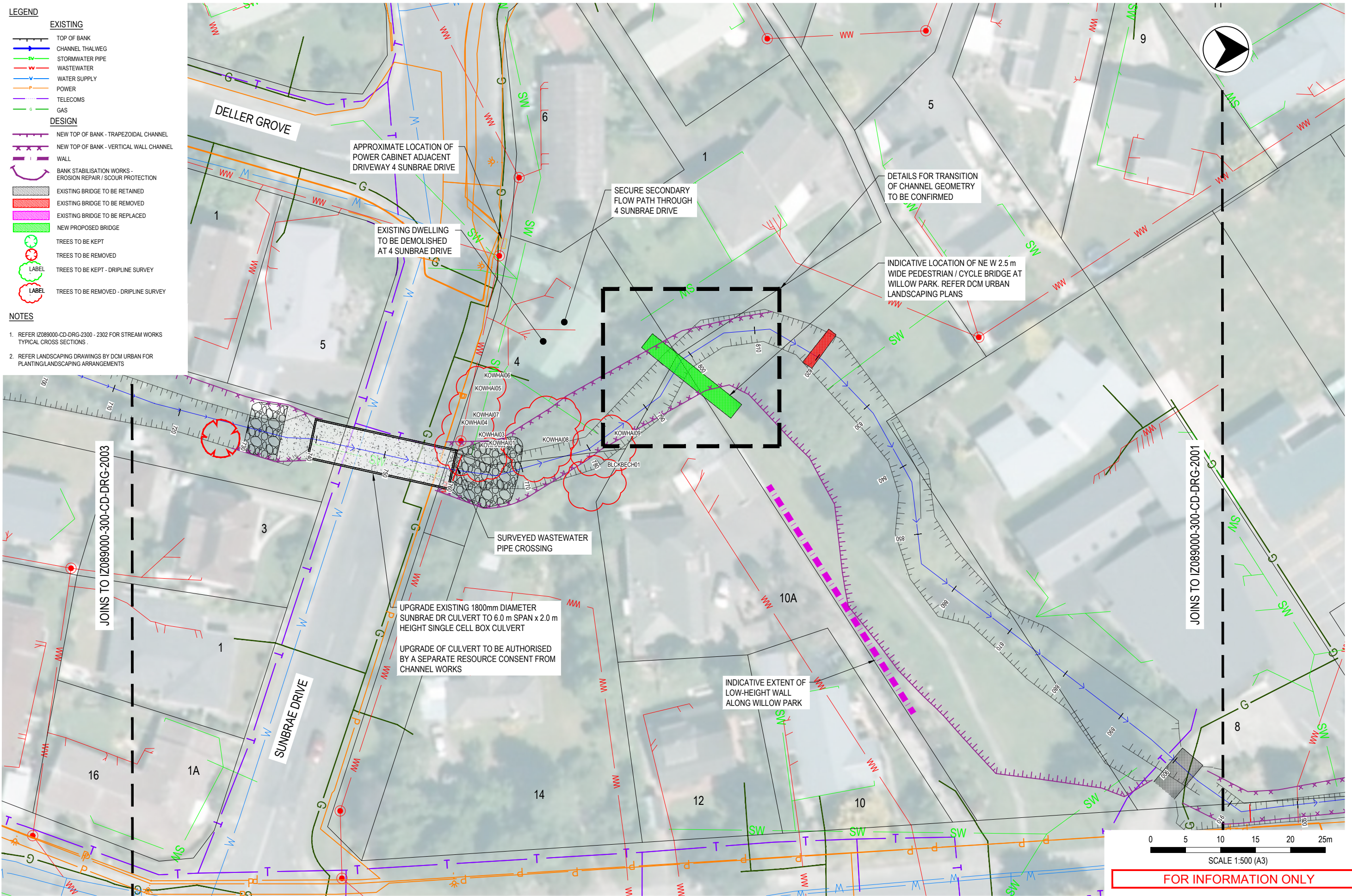
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TITLE STREAM WORKS GENERAL ARRANGEMENT SHEET 1	
SCALE 1:500 @ A3	DRAWING No IZ089000-300-CD-DRG-2001
REV G	

- LEGEND**
- EXISTING**
- TOP OF BANK
 - CHANNEL THALWEG
 - STORMWATER PIPE
 - WASTEWATER
 - WATER SUPPLY
 - POWER
 - TELECOMS
 - GAS
- DESIGN**
- NEW TOP OF BANK - TRAPEZOIDAL CHANNEL
 - NEW TOP OF BANK - VERTICAL WALL CHANNEL
 - WALL
 - BANK STABILISATION WORKS - EROSION REPAIR / SCOUR PROTECTION
 - EXISTING BRIDGE TO BE RETAINED
 - EXISTING BRIDGE TO BE REMOVED
 - EXISTING BRIDGE TO BE REPLACED
 - NEW PROPOSED BRIDGE
 - TREES TO BE KEPT
 - TREES TO BE REMOVED
 - TREES TO BE KEPT - DRIPLINE SURVEY
 - TREES TO BE REMOVED - DRIPLINE SURVEY

- NOTES**
- REFER I2089000-CD-DRG-2302 - 2302 FOR STREAM WORKS TYPICAL CROSS SECTIONS.
 - REFER LANDSCAPING DRAWINGS BY DCM URBAN FOR PLANTING/LANDSCAPING ARRANGEMENTS



0 5 10 15 20 25m
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PROJECT PINEHAVEN STREAM IMPROVEMENTS			
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DESIGNED JWS	DESIGN REVIEW DF	DATE 27.08.19	DATE 27.08.19

TITLE STREAM WORKS GENERAL ARRANGEMENT SHEET 2	
SCALE 1:500 @ A3	DRAWING No I2089000-300-CD-DRG-2002
REV	F

LEGEND

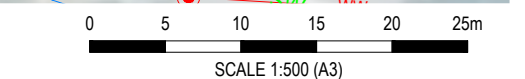
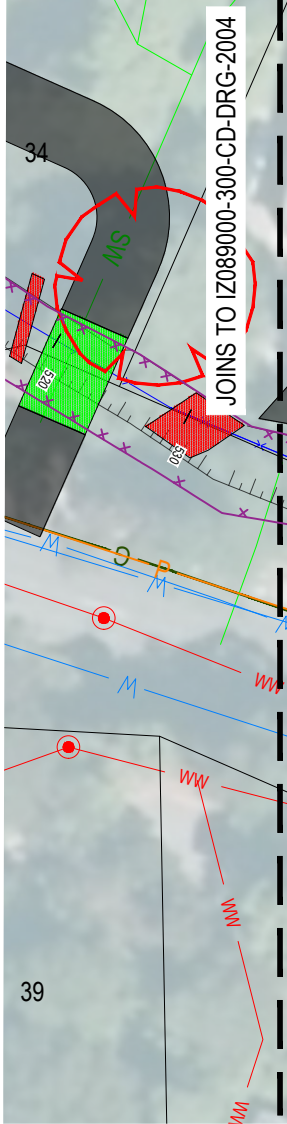
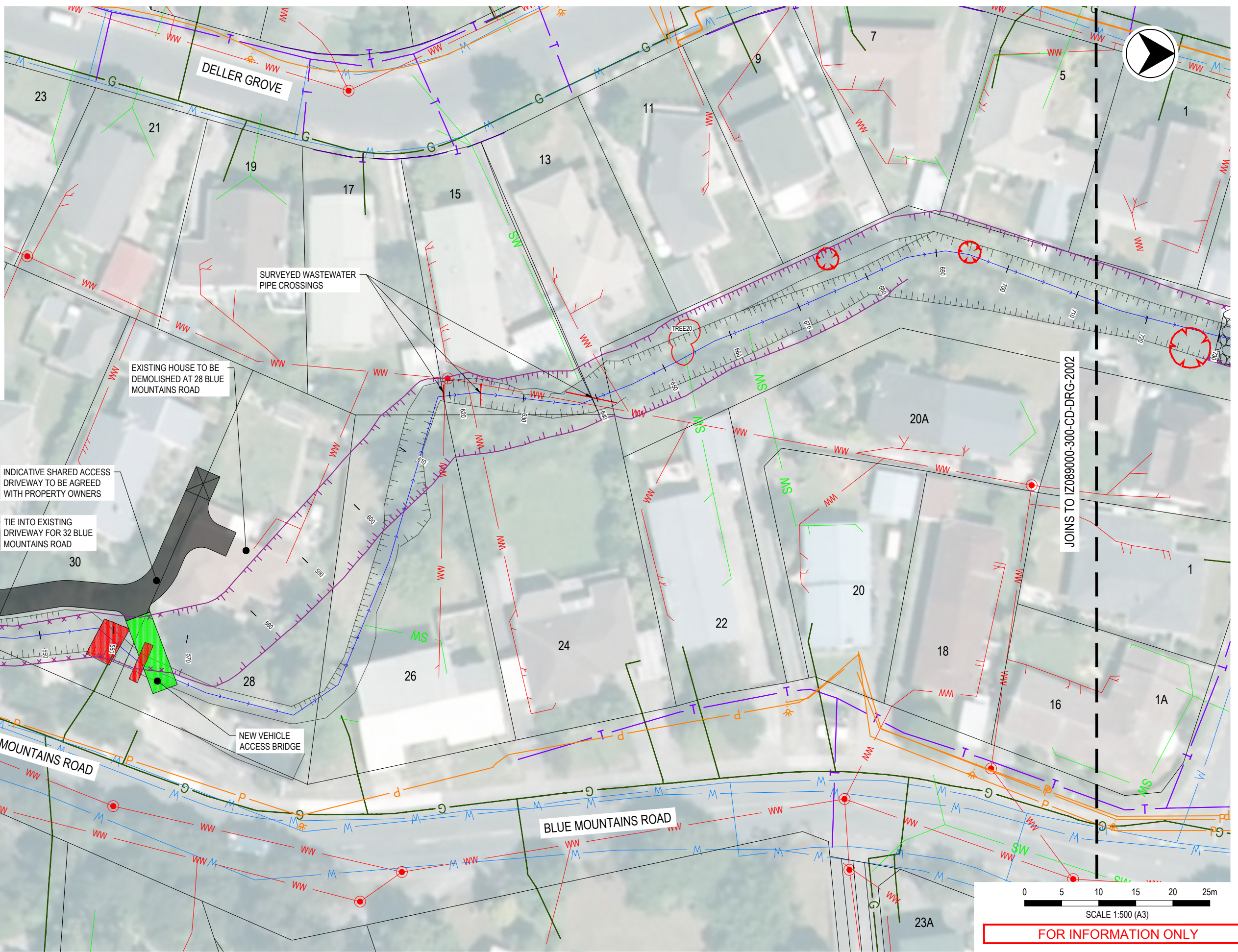
EXISTING

- TOP OF BANK
- CHANNEL THALWEG
- STORMWATER PIPE
- WASTEWATER
- WATER SUPPLY
- POWER
- TELECOMS
- GAS

DESIGN

- NEW TOP OF BANK - TRAPEZOIDAL CHANNEL
- NEW TOP OF BANK - VERTICAL WALL CHANNEL
- WALL
- BANK STABILISATION WORKS - EROSION REPAIR / SCOUR PROTECTION
- EXISTING BRIDGE TO BE RETAINED
- EXISTING BRIDGE TO BE REMOVED
- EXISTING BRIDGE TO BE REPLACED
- NEW PROPOSED BRIDGE
- TREES TO BE KEPT
- TREES TO BE REMOVED
- TREES TO BE KEPT - DRIPLINE SURVEY
- TREES TO BE REMOVED - DRIPLINE SURVEY

- NOTES**
- REFER I2089000-CD-DRG-2300 - 2302 FOR STREAM WORKS TYPICAL CROSS SECTIONS.
 - REFER LANDSCAPING DRAWINGS BY DCM URBAN FOR PLANTING/LANDSCAPING ARRANGEMENTS



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CLIENT WELLINGTON WATER		PROJECT PINEHAVEN STREAM IMPROVEMENTS	
DRAWN JWS	DRAWING CHECK DF	REVIEWED JS	APPROVED IG
DESIGNED JWS	DESIGN REVIEW DF	DATE 27.08.19	DATE 27.08.19

TITLE STREAM WORKS GENERAL ARRANGEMENT SHEET 3		SCALE 1:500 @ A3	DRAWING No. I2089000-300-CD-DRG-2003	REV E
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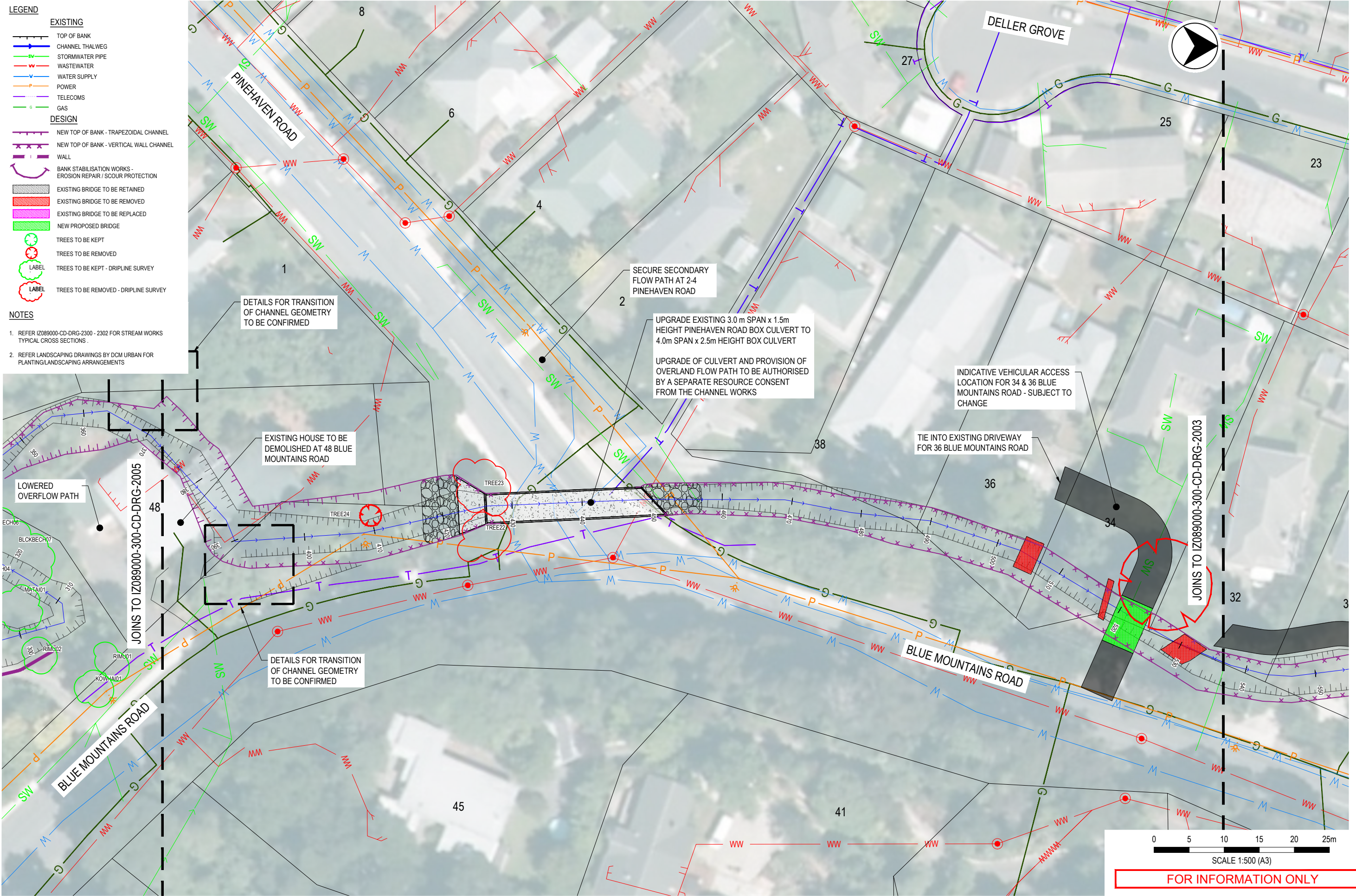
EXISTING

- TOP OF BANK
- CHANNEL THALWEG
- STORMWATER PIPE
- WASTEWATER
- WATER SUPPLY
- POWER
- TELECOMS
- GAS

DESIGN

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- NOTES**
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CLIENT WELLINGTON WATER		PROJECT PINEHAVEN STREAM IMPROVEMENTS	
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DESIGNED JWS	DESIGN REVIEW DF	DATE 27.08.19	DATE 27.08.19

TITLE STREAM WORKS GENERAL ARRANGEMENT SHEET 4	
SCALE 1:500 @ A3	DRAWING No. IZ089000-300-CD-DRG-2004
REV F	

LEGEND

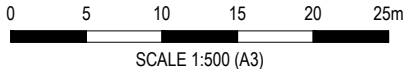
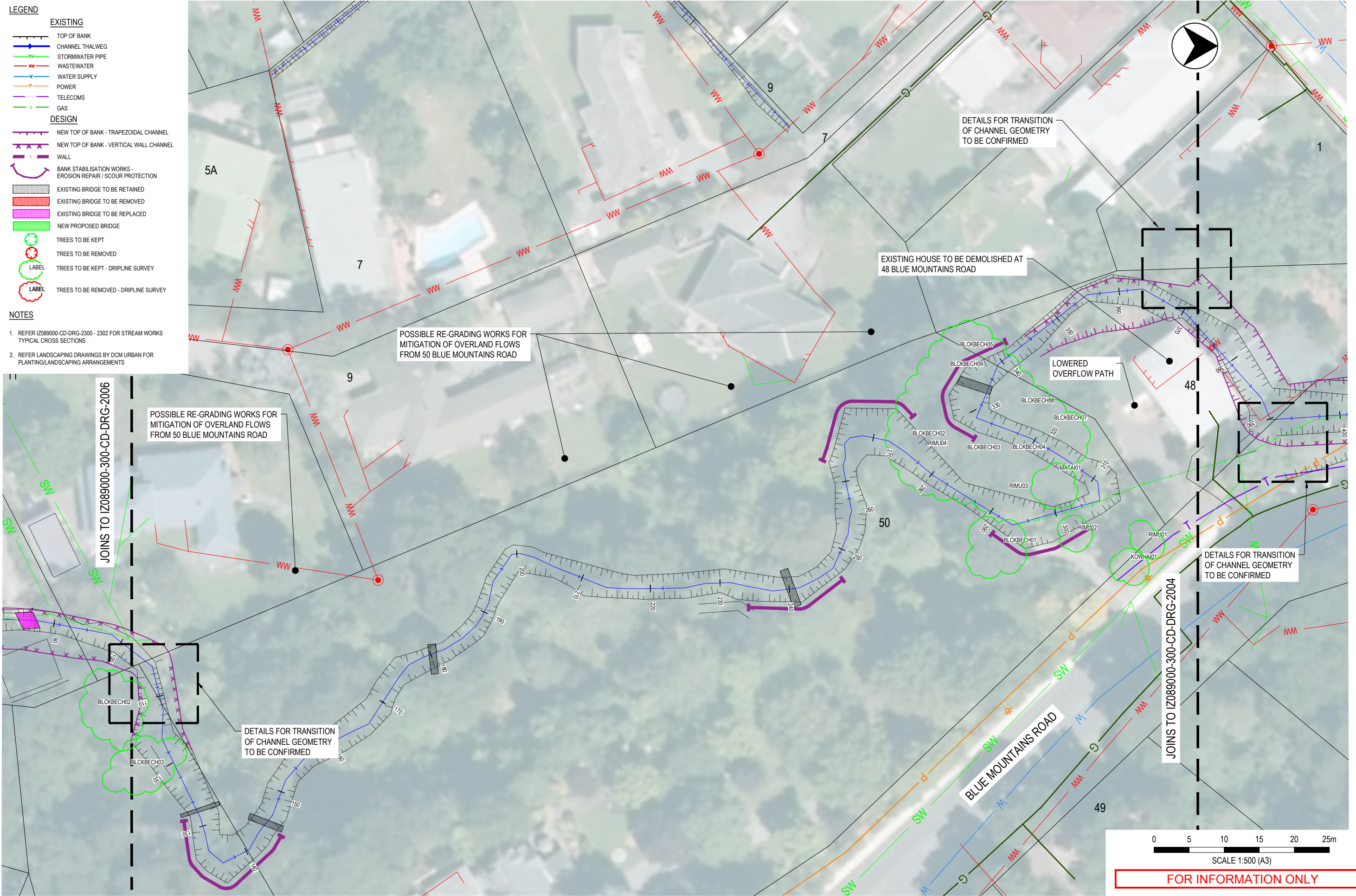
EXISTING

- TOP OF BANK
- CHANNEL THALWEG
- STORMWATER PIPE
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- WATER SUPPLY
- POWER
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- GAS

DESIGN

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DRAWN JWS	DRAWING CHECK DF	REVIEWED JS	APPROVED IG
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TITLE STREAM WORKS GENERAL ARRANGEMENT SHEET 5	
SCALE 1:500 @ A3	DRAWING No I2089000-300-CD-DRG-2005
REV	F

LEGEND

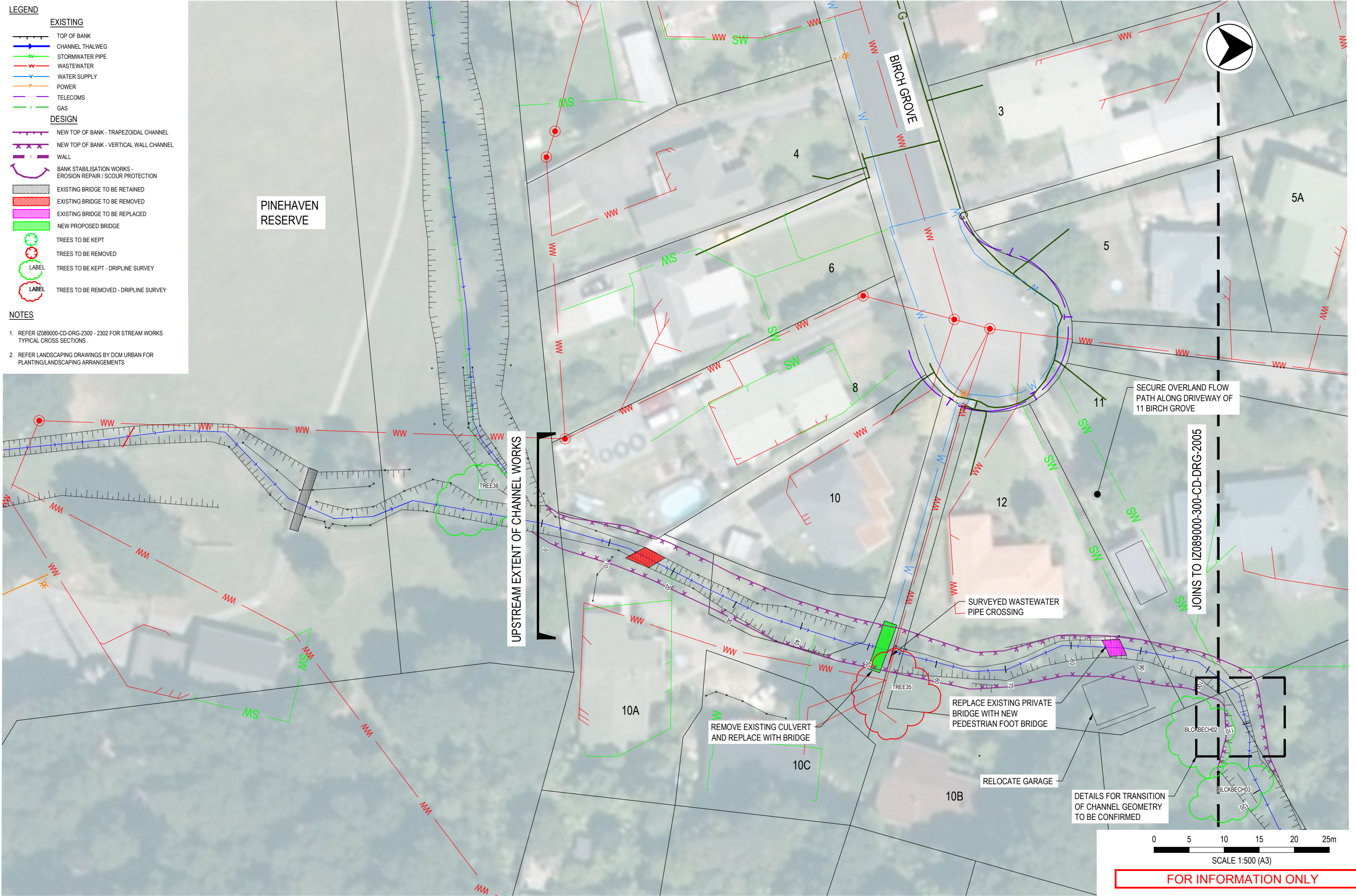
EXISTING

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- WATER SUPPLY
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- GAS

DESIGN

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TITLE STREAM WORKS GENERAL ARRANGEMENT SHEET 6		REV E
SCALE 1:500 @ A3	DRAWING No. I2089000-300-CD-DRG-2006	

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