

SOLAR FARM - LOT 3 DP 422901

CONCEPT DESIGN DRAWINGS

NOVA ENERGY LTD

DRAWING REGISTER

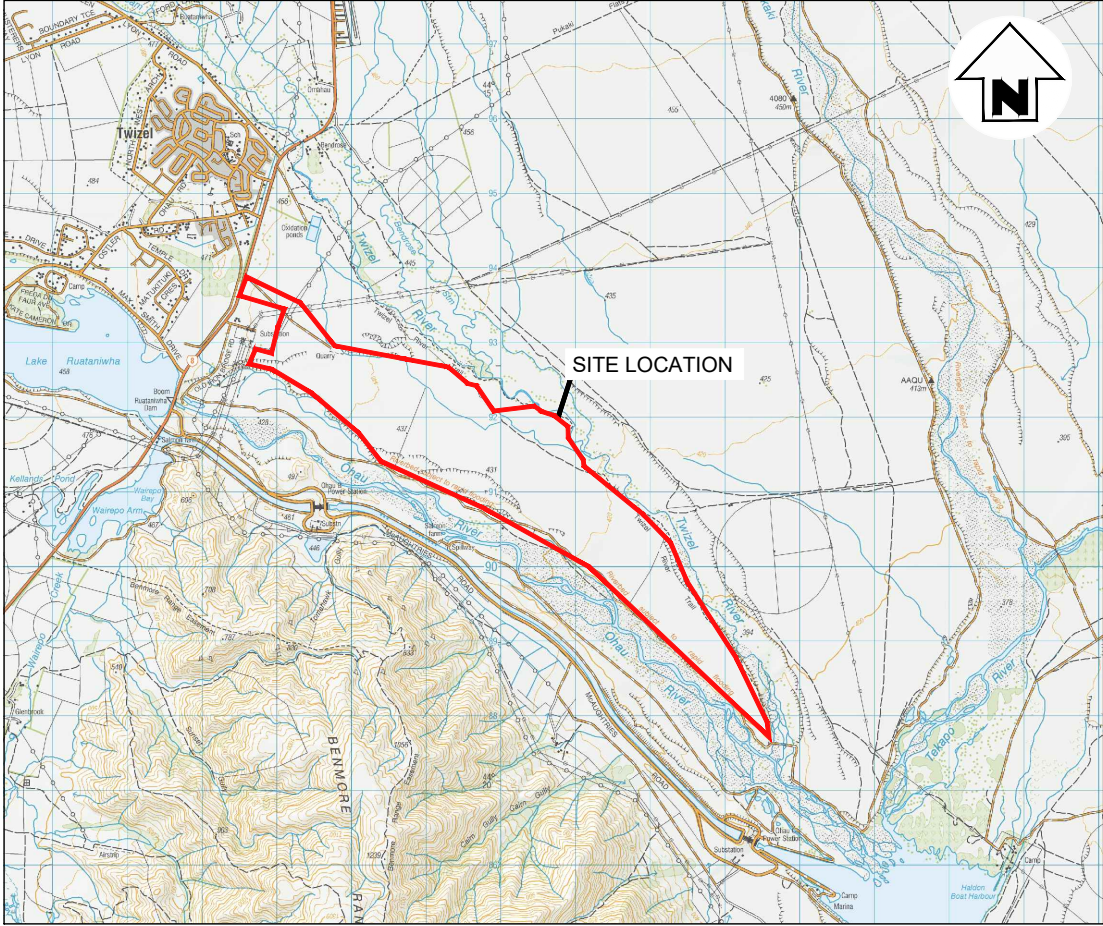
DRAWING	SHEET	TITLE	DATE OF ISSUE / REVISION			
			WD			
210982-02	GD1	SITE OVERVIEW PLAN	19/02/2026			
210982-02	GD2	AREA A1 SITE PLAN	19/02/2026			
210982-02	GD3	AREA A2 SITE PLAN	19/02/2026			
210982-02	GD4	AREA B1 SITE PLAN	19/02/2026			
210982-02	GD5	AREA B2 SITE PLAN	19/02/2026			
210982-02	GD6	AREA C1 SITE PLAN	19/02/2026			
210982-02	GD7	AREA C2 SITE PLAN	19/02/2026			
210982-02	GD8	AREA C3 SITE PLAN	19/02/2026			
210982-02	GD9	AREA D1 SITE PLAN	19/02/2026			
210982-02	GD10	AREA D2 SITE PLAN	19/02/2026			
210982-02	GD11	AREA D3 SITE PLAN	19/02/2026			
210982-02	GD12	O&M BUILDING - PRELIMINARY THREE WATERS PLAN	19/02/2026			
210982-02	GD13	O&M BUILDING - LAYOUT PLAN AND ELEVATIONS	19/02/2026			
210982-02	GD14	CONSTRUCTION OFFICES / LAYDOWN - LAYOUT PLAN	19/02/2026			
210982-02	GD15	33KV SWITCHYARD LAYOUT PLAN	19/02/2026			
210982-02	RD1	ENTRANCEWAY LAYOUT PLAN	19/02/2026			
210982-02	EW1	PRELIMINARY EARTHWORKS PLAN	19/02/2026			
210982-02	ES1	PRELIMINARY EROSION SEDIMENT CONTROL PLAN	19/02/2026			
210982-02	ES2	PRELIMINARY ESCP - O&M / CONSTRUCTION LAYDOWN	19/02/2026			
210982-02	ES3	ESCP - TYPICAL POND DETAILS FOR 5 HA CATCHMENT	19/02/2026			
210982-02	ES4	ESCP - TYPICAL SILT FENCE AND DIVERSION CHANNEL	19/02/2026			

KEY

WD	WORKING DRAFT	C	TENDER
A	APPROVAL	O	CONSTRUCTION
B	CONSENTS	AS	AS BUILT

TRANSMITTAL

TO	ATTENTION	DATE OF ISSUE / REVISION			
		WD			
OWNER / DEVELOPER	NOVA ENERGY LTD	19/02/26			
ARCHITECT / DESIGNER					
QUANTITY SURVEYOR					
BUILDER / CONTRACTOR					
TERRITORIAL AUTHORITY	MACKENZIE DISTRICT COUNCIL				



PROJECT LOCATION PLAN
SCALE N.T.S

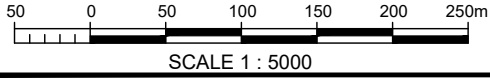
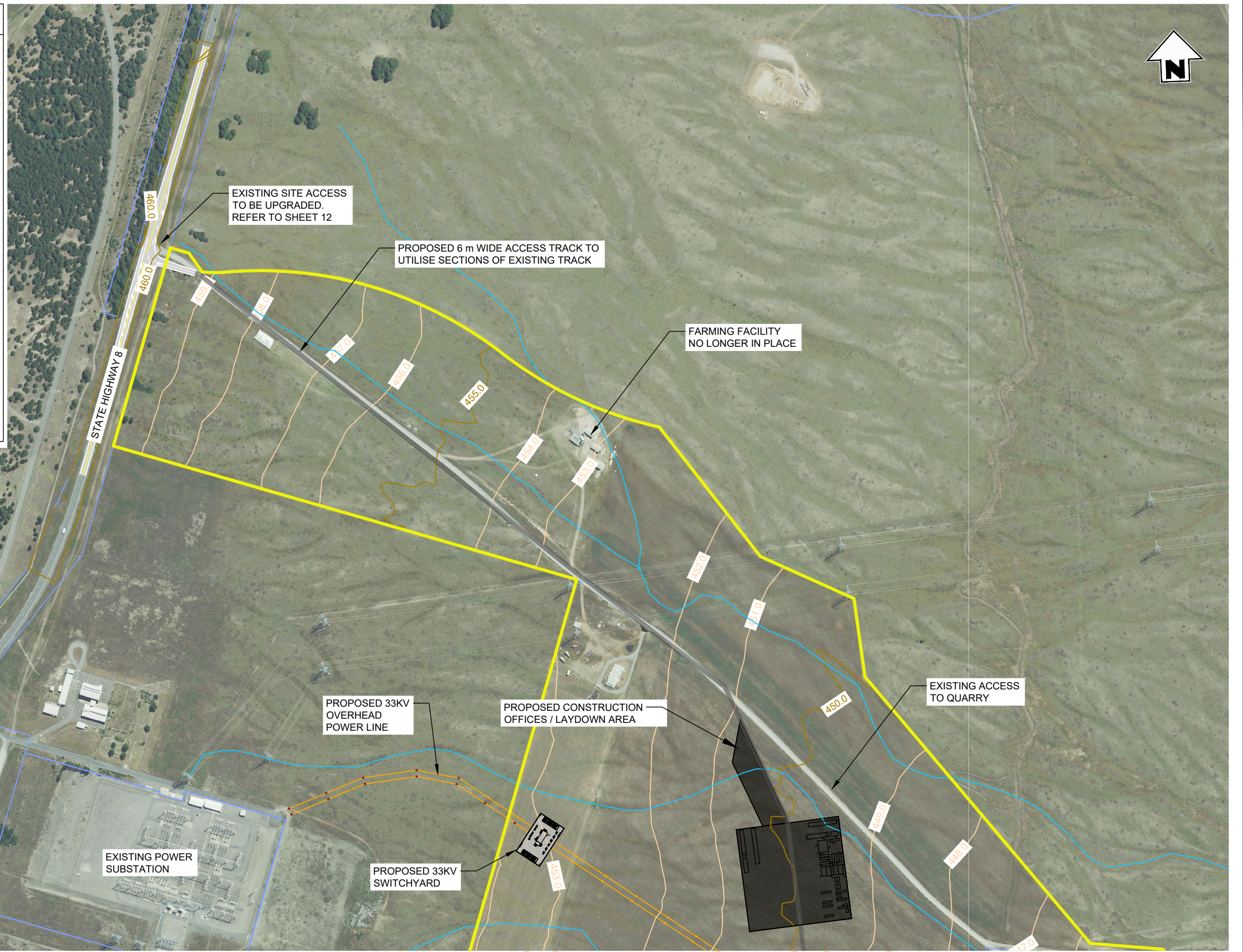


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PLANNING
ENVIRONMENT**

ISSUED FOR CONSENT

LEGEND

BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
SIGNIFICANT VEGETATION / HABITAT EXCLUSION AREA (INCLUDES 10m BUFFER)	
SIGNIFICANT VEGETATION SOLAR STRUCTURE SHADING BUFFER	
LIZARD HABITAT ENRICHMENT CORRIDOR BIODIVERSITY NODES	
NATURAL WETLAND EXCLUSION AREA (INCLUDES 100m BUFFER)	
SITE OF NATURAL SIGNIFICANCE EXCLUSION AREA (INCLUDES 10m BUFFER)	
SITE OF SIGNIFICANCE TO MAORI - WATERBODIES	
INVERTERS	
ACCESS TRACK	
FIRE WATER TANK	
WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	
OPERATIONS AND MAINTENANCE BUILDING/ CONSTRUCTION OFFICE / LAYDOWN AREA	
33KV SWITCHYARD AREA	



PLAN
SCALE 1:5000

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Disclaimer:
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ENVIRONMENT

NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
WD1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS								
NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
REFERENCE DRAWINGS								

GENERAL NOTES
1. Coordinates in terms of : New Zealand Transverse Mercator Projection
2. Elevations in terms of : NZ Vertical Datum 2016
3. Contour interval is : 1m

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		AREA A1 SITE PLAN	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	GD2	WD

LEGEND

BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
SIGNIFICANT VEGETATION / HABITAT EXCLUSION AREA (INCLUDES 10m BUFFER)	
SIGNIFICANT VEGETATION SOLAR STRUCTURE SHADING BUFFER	
LIZARD HABITAT ENRICHMENT CORRIDOR	
BIODIVERSITY NODES	
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INVERTERS	
ACCESS TRACK	
FIRE WATER TANK	
WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	
OPERATIONS AND MAINTENANCE BUILDING/ CONSTRUCTION OFFICE / LAYDOWN AREA	
33kV SWITCHYARD AREA	



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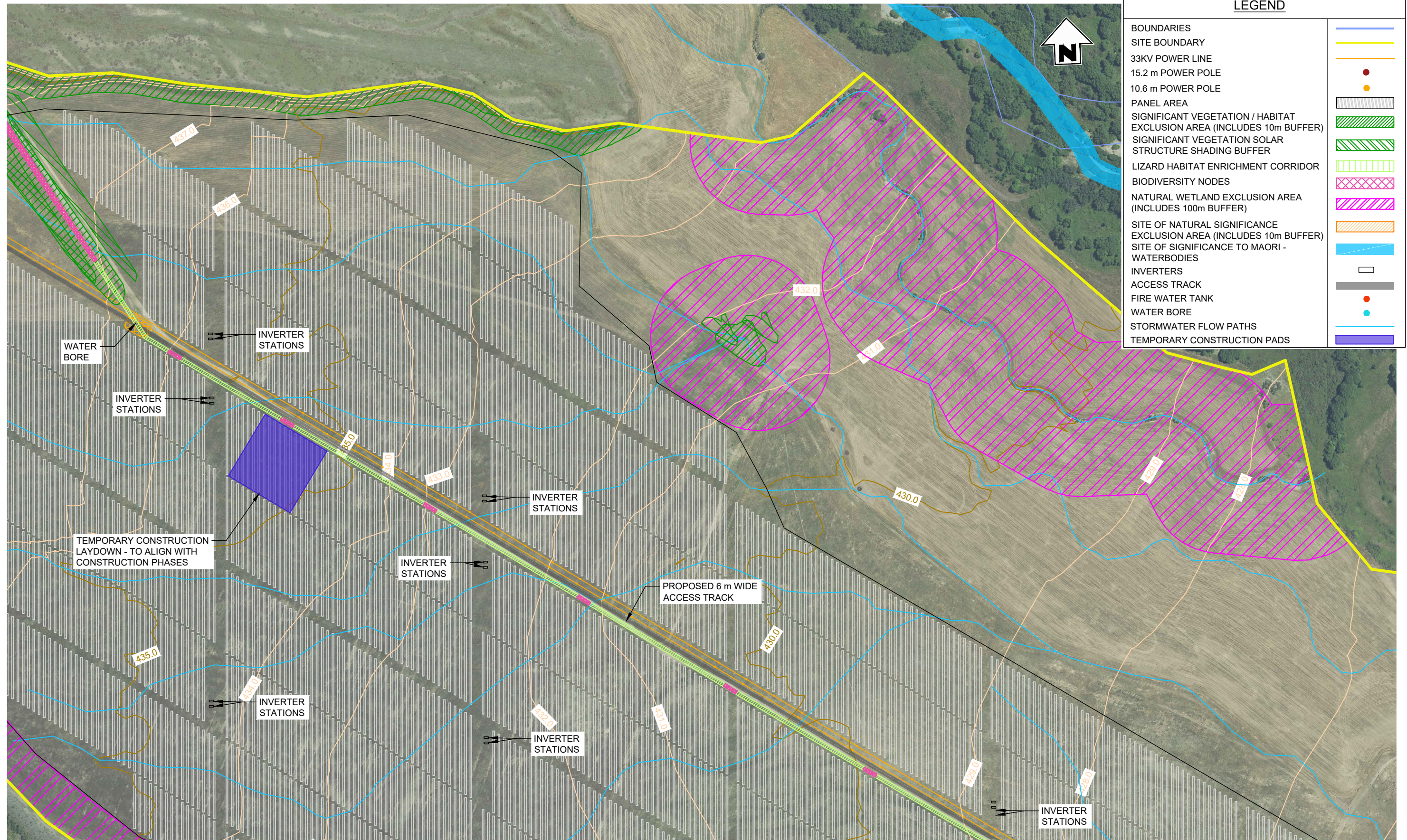
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LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J.STEPHENSON 09/2024
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		AREA A2 SITE PLAN	
ORIGINAL SIZE	A3	DRAWING No	210982-02
SHEET	GD3	REVISION	WD

File Name: C:\125\data\BTW12D1210982 - Todd Generation Taranaki Ltd_3679107 Drawings\210982-00-02 Base drawing.dwg - GD4 Plot Date: 19/05/2026 Plot Time: 14:23



LEGEND	
BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
SIGNIFICANT VEGETATION / HABITAT EXCLUSION AREA (INCLUDES 10m BUFFER)	
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INVERTERS	
ACCESS TRACK	
FIRE WATER TANK	
WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	



PLAN
SCALE 1:5000

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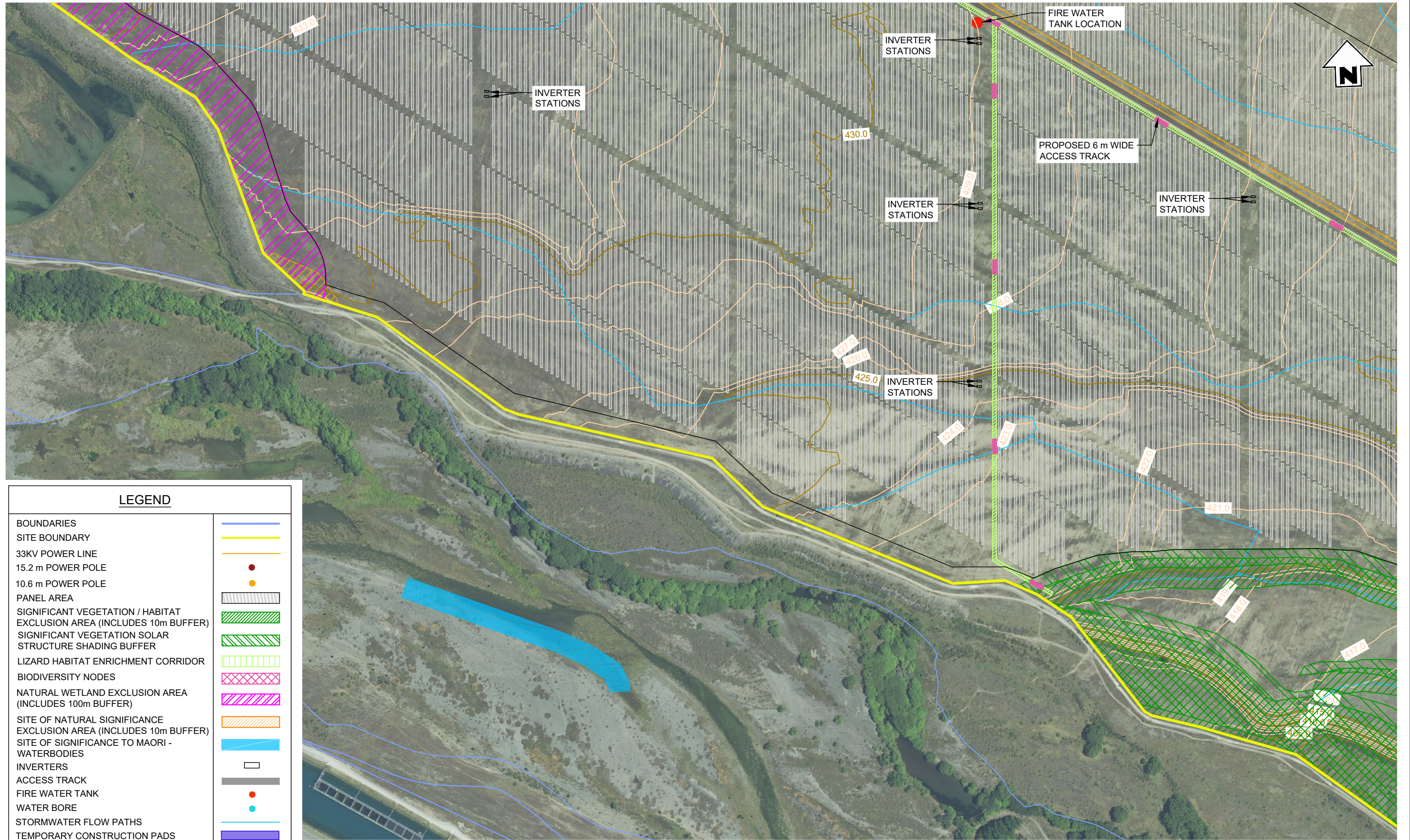
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						ISSUED FOR CONSENT		
REVISIONS						DESCRIPTION	NUMBER	TITLE
REVISIONS						DESCRIPTION	NUMBER	TITLE

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LOCATION	TWIZEL
PROJECT No.	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J.STEPHENSON 09/2024
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		AREA B1 SITE PLAN	
ORIGINAL SIZE	DRAWING No.	SHEET	REVISION
A3	210982-02	GD4	WD

File Name: C:\125\data\BTW12\1210982 - Todd Generation Taranaki Ltd_3679107 Drawings\210982.00-02 Base drawing.dwg - GD5 Plot Date: 19/05/2026 Plot Time: 14:24



LEGEND

BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
SIGNIFICANT VEGETATION / HABITAT EXCLUSION AREA (INCLUDES 10m BUFFER)	
SIGNIFICANT VEGETATION SOLAR STRUCTURE SHADING BUFFER	
LIZARD HABITAT ENRICHMENT CORRIDOR	
BIODIVERSITY NODES	
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SITE OF NATURAL SIGNIFICANCE EXCLUSION AREA (INCLUDES 10m BUFFER)	
SITE OF SIGNIFICANCE TO MAORI - WATERBODIES	
INVERTERS	
ACCESS TRACK	
FIRE WATER TANK	
WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	



PLAN
SCALE 1:5000

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						ISSUED FOR CONSENT			
REVISIONS							DESCRIPTION	NUMBER	TITLE
REFERENCE DRAWINGS									

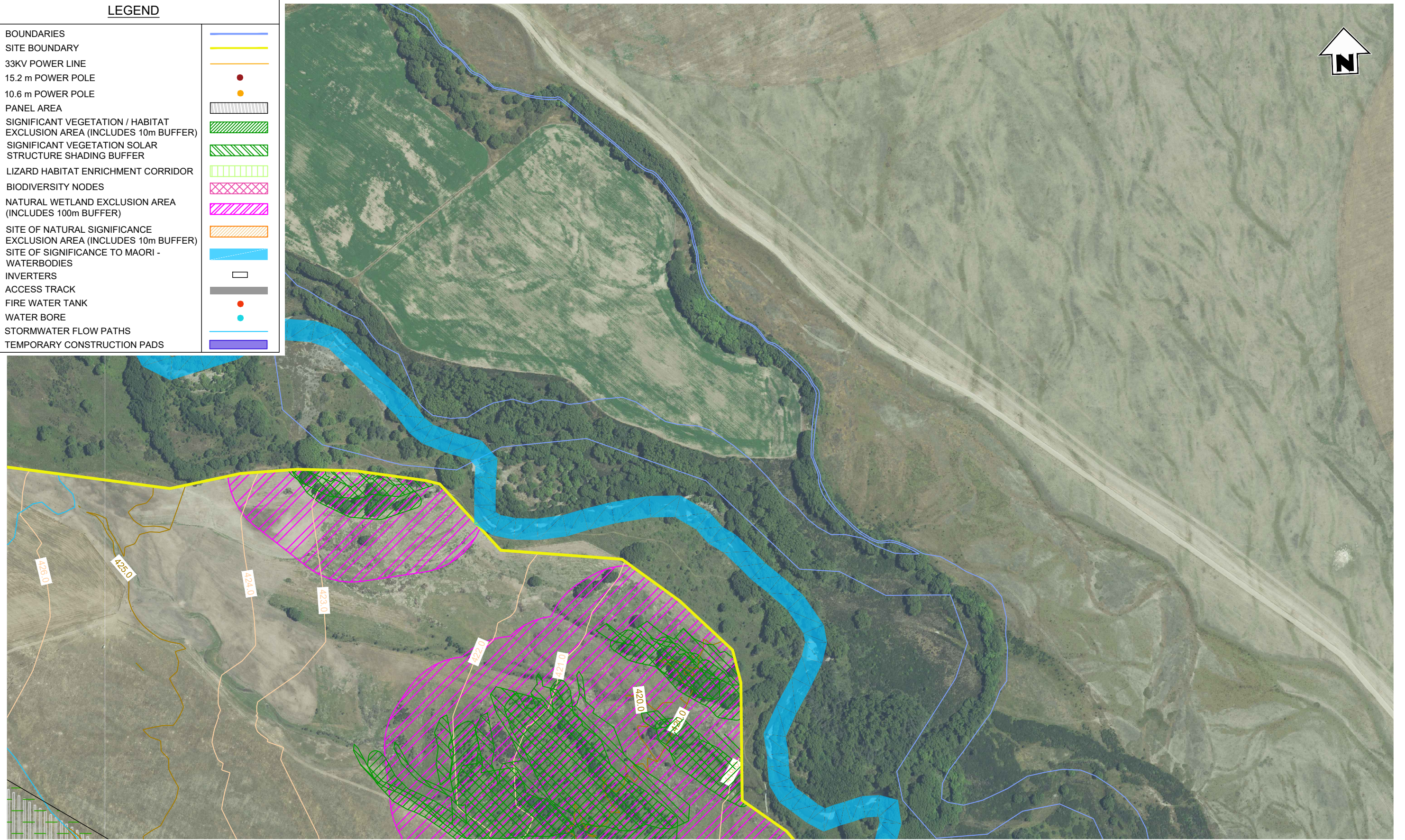
GENERAL NOTES
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3. Contour interval is : 1m

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		AREA B2 SITE PLAN	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	GD5	WD

LEGEND

BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
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INVERTERS	
ACCESS TRACK	
FIRE WATER TANK	
WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	



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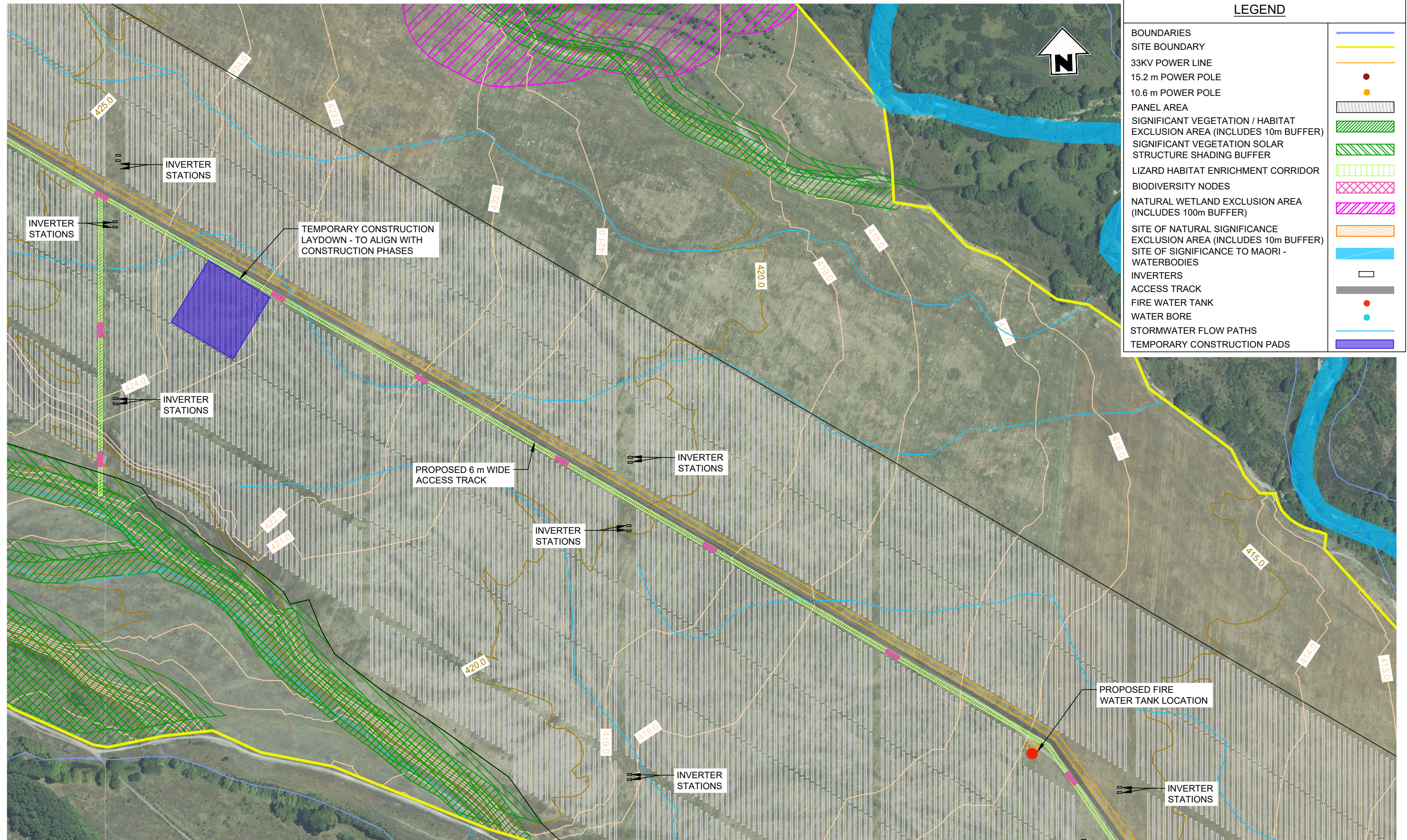
GENERAL NOTES
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2. Elevations in terms of : NZ Vertical Datum 2016
3. Contour interval is : 1m

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J STEPHENSON 09/2024
CHECKED	-

TITLE
NOVA ENERGY LTD
SOLAR FARM - LOT 3 DP 422901
AREA C1 SITE PLAN

ORIGINAL SIZE	A3	DRAWING No	210982-02	SHEET	GD6	REVISION	WD
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File Name: C:\1245\data\BTW1212\10982 - Todd Generation Taranaki Ltd_3679107 Drawings\210982.00-02 Base drawing.dwg - GD7 Plot Date: 19/05/2026 Plot Time: 14:24



LEGEND	
BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
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WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	



PLAN
SCALE 1:5000

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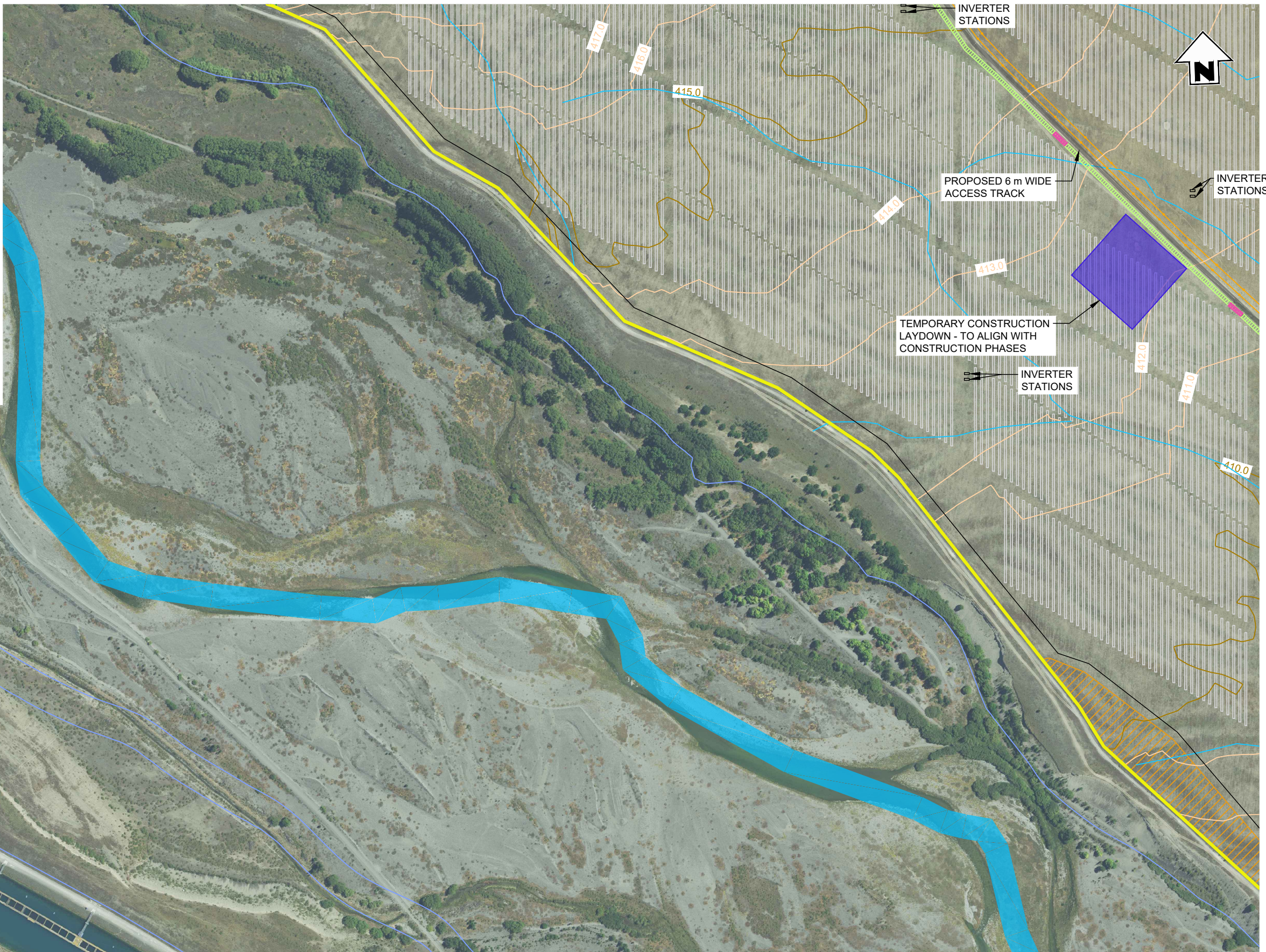
GENERAL NOTES
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2. Elevations in terms of : NZ Vertical Datum 2016
3. Contour interval is : 1m

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		AREA C2 SITE PLAN	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	GD7	WD

LEGEND

BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
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PLAN
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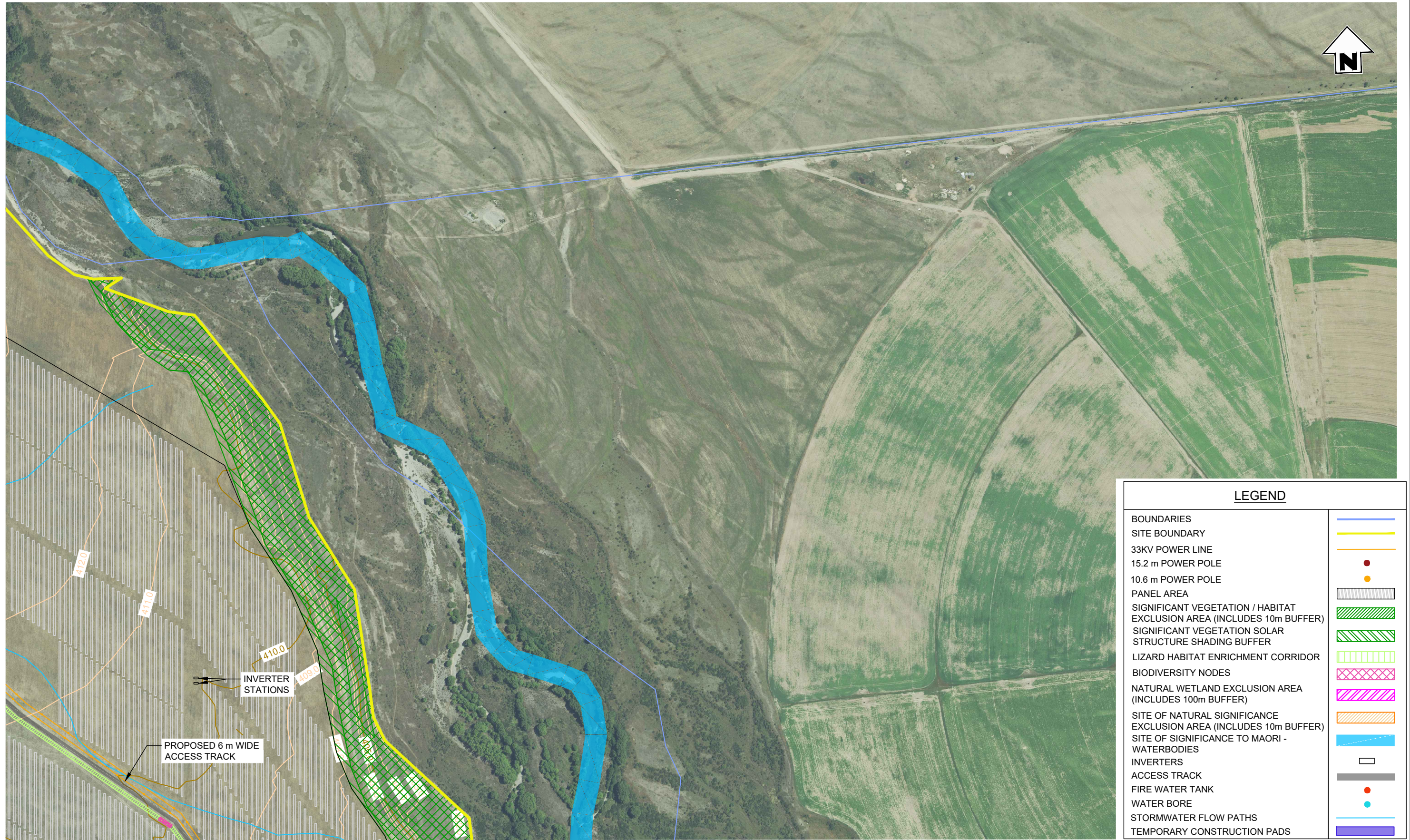
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LOCATION	TWIZEL
PROJECT No.	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		AREA C3 SITE PLAN	
ORIGINAL SIZE	DRAWING No.	SHEET	REVISION
A3	210982-02	GD8	WD

File Name: C:\125\data\BTW12\12\10982 - Todd Generation Taranaki Ltd_3679\07 Drawings\210982_00-02 Base drawing.dwg - GD9 Plot Date: 19/05/2026 Plot Time: 14:24



LEGEND

BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
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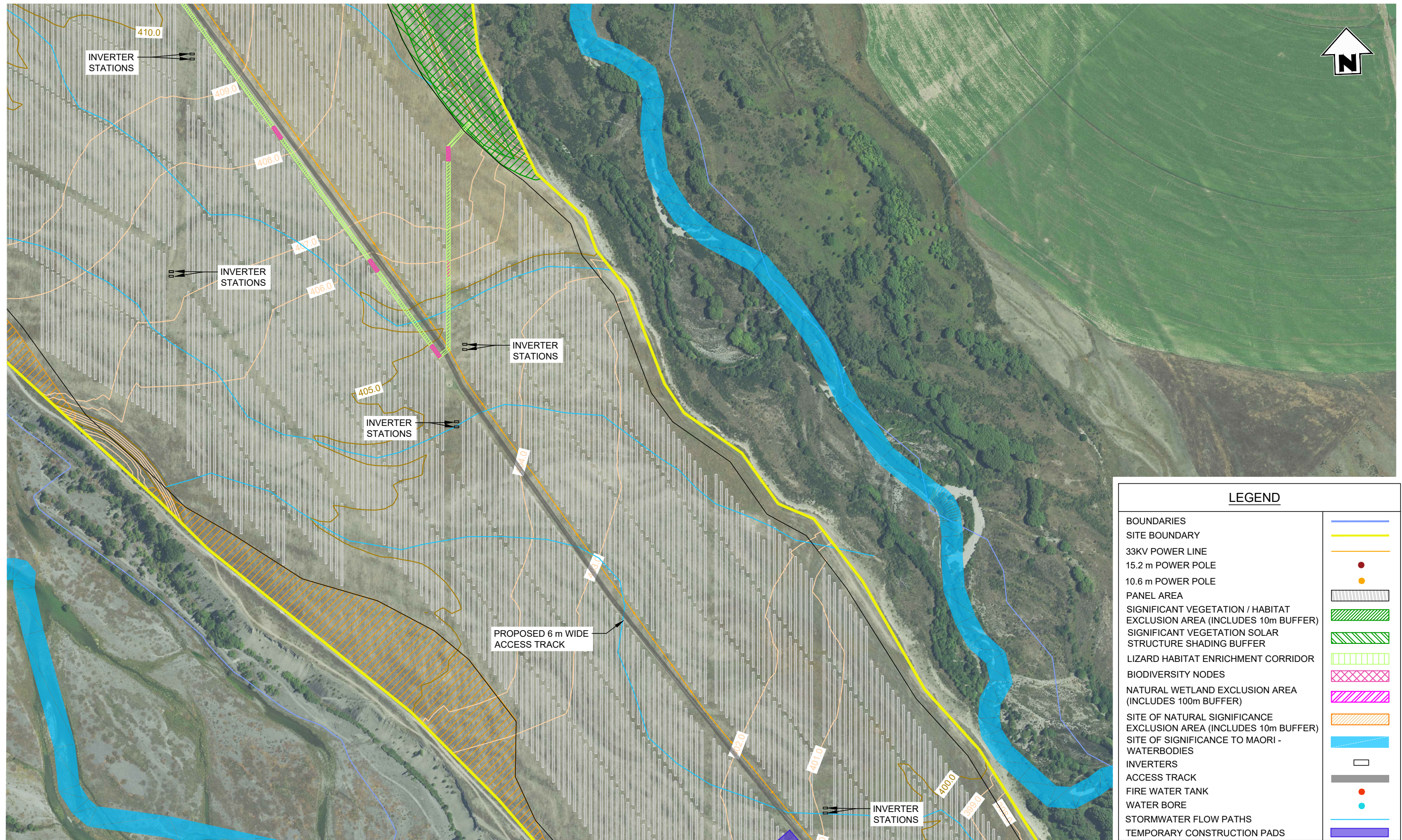
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PROJECT No	210982
A3 SCALE	1:5000
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DRAWN	J.STEPHENSON 09/2024
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		AREA D1 SITE PLAN	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	GD9	WD

File Name: C:\125\data\BTW12\12\10982 - Todd Generation Taranaki Ltd_3679\07 Drawings\210982-00-02 Base drawing.dwg - GD10 Plot Date: 19/05/2026 Plot Time: 14:24



LEGEND

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33KV POWER LINE	
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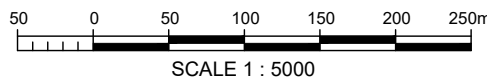
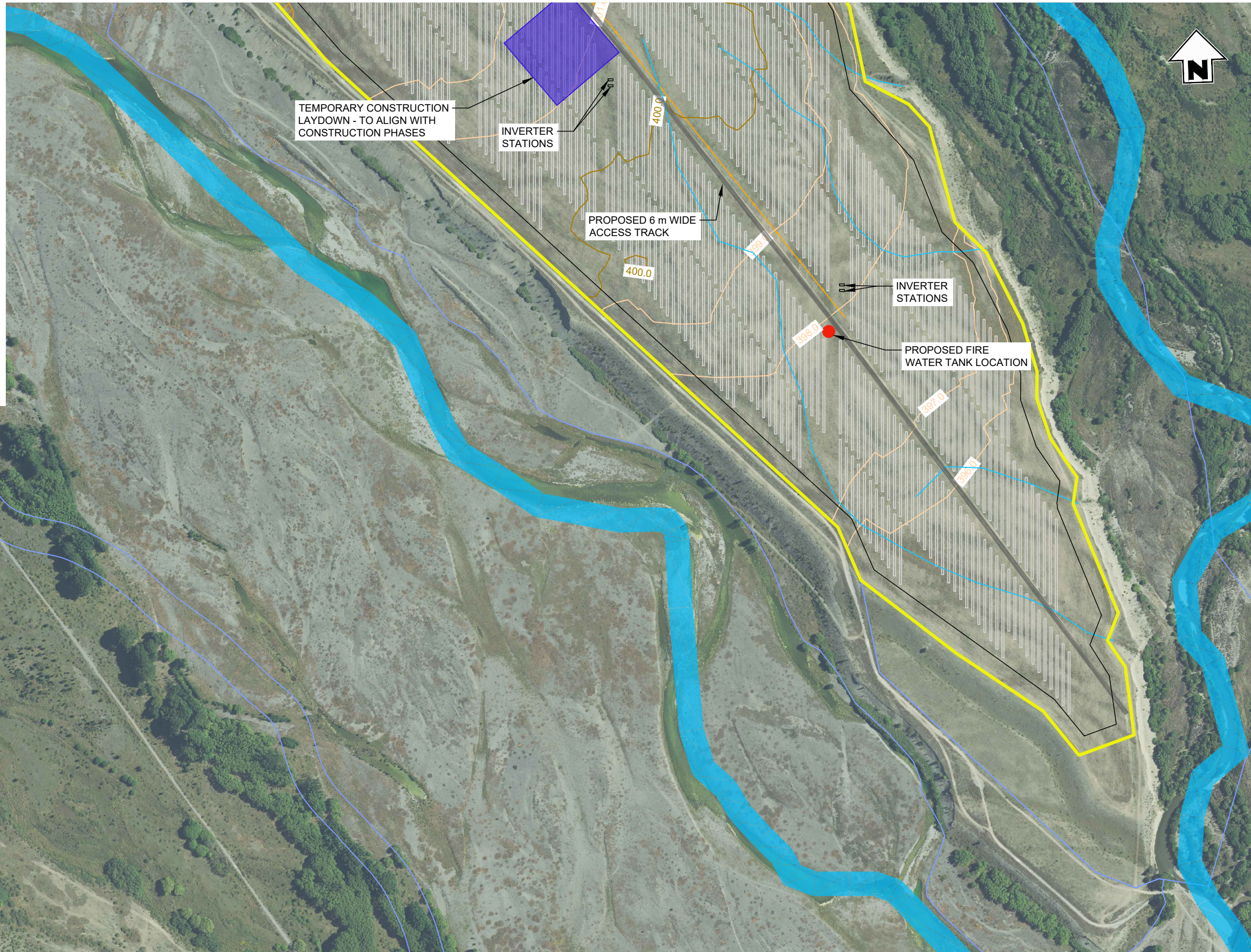
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PROJECT No	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J.STEPHENSON 09/2024
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		AREA D2 SITE PLAN	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	GD10	WD

LEGEND

BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
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REVISIONS							REFERENCE DRAWINGS	

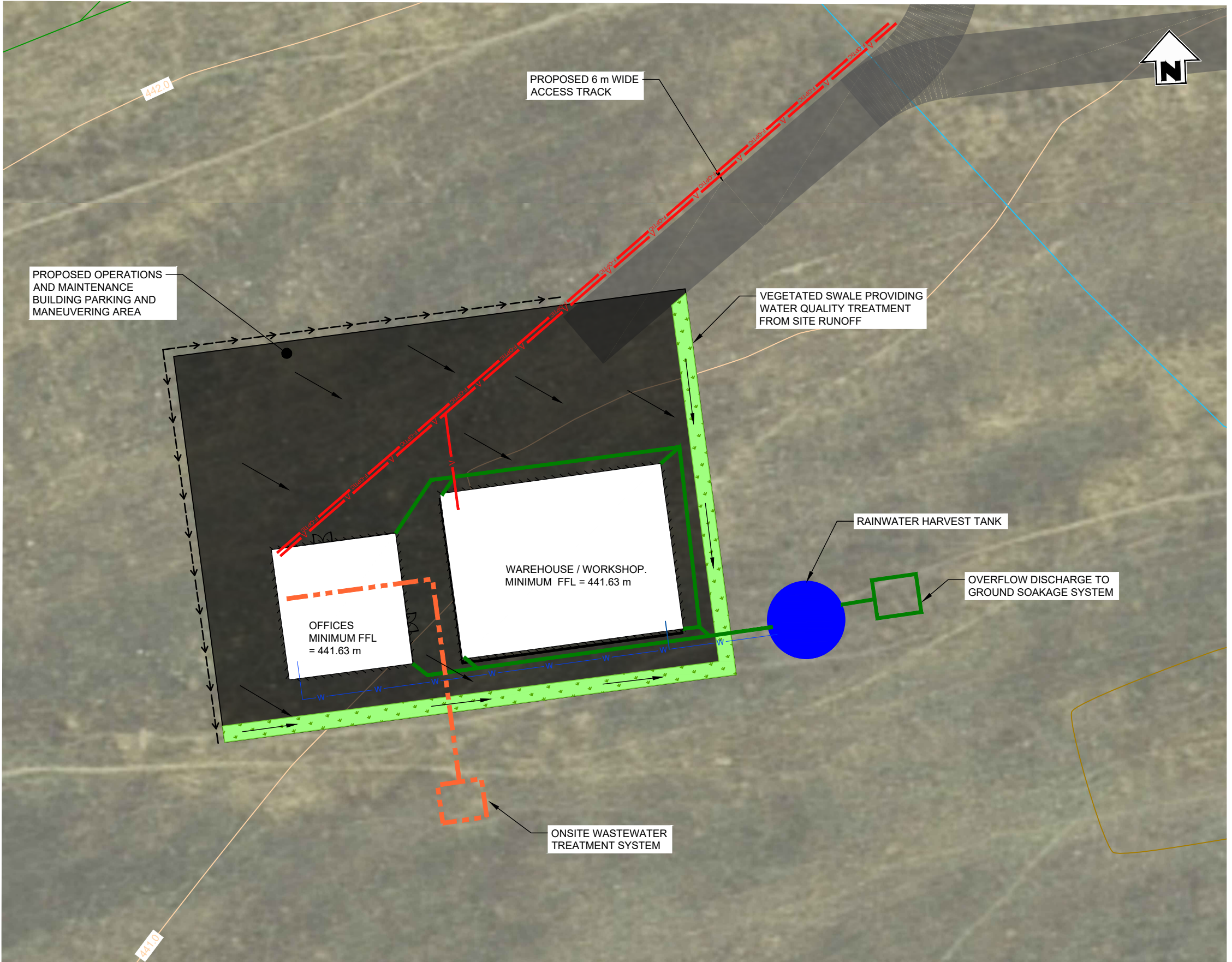
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PROJECT No	210982
A3 SCALE	1:5000
SURVEYED	-
DRAWN	J.STEPHENSON 09/2024
CHECKED	-

TITLE
NOVA ENERGY LTD
SOLAR FARM - LOT 3 DP 422901
AREA D3 SITE PLAN

ORIGINAL SIZE	A3	DRAWING No	210982-02	SHEET	GD11	REVISION	WD
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LEGEND	
POWER SUPPLY	
FIBRE OPTIC	
WATER	
SEWER	
STORMWATER	
DRAINAGE FLOW	
SLOPE	
EDGE OF BUILDING	
ACCESS TRACK	
GRAVEL	
VEGETATED SWALE	



- NOTES**
1. ALL WASTEWATER TREATMENT AND DISPOSAL SHALL BE IN ACCORDANCE WITH NZBC G13/AS1 AND G13/VM4 FOUL WATER ON-SITE DISPOSAL, DESIGN SHALL COMPLY WITH AS/NZS 1547:2012 - ON-SITE DOMESTIC WASTEWATER MANAGEMENT.
 2. ALL STORMWATER TREATMENT AND DISPOSAL SHALL BE IN ACCORDANCE WITH NZBC E1 SURFACE WATER.
 3. POTABLE WATER SUPPLY TO BE HARVESTED FROM RAINWATER TANKS AND SHALL BE DESIGNED IN ACCORDANCE WITH NZBC G12 WATER SUPPLIES
 4. ALL SERVICE ARE SHOWN INDICATIVE ONLY WITH FINAL SYSTEMS AND LAYOUT TO BE CONFIRMED DURING DETAILED DESIGN.
 5. APPROPRIATE LOCAL AND REGIONAL COUNCIL CONSENTS ARE TO BE APPROVED PRIOR TO COMMENCEMENT OF WORKS.
 6. ALL WORKS TO CONFORM WITH ECAN'S SEDIMENT AND EROSION CONTROL REQUIREMENTS. ALL EXPOSED (CUT AND FILL) SLOPES AND EARTH BUNDS TO BE STABILISED UPON COMPLETION OF WORKS.
 7. BUILDINGS TO HAVE MINIMUM FINISHED FLOOR LEVEL (FFL) AS SPECIFIED ON DRAWINGS AND FLOOD RISK ASSESSMENT.



PLAN
SCALE 1:400

ISSUED FOR CONSENT

Disclaimer:
Areas and dimensions may be subject to scale error.
Scaling from this drawing is at the users risk.



**SURVEYING
ENGINEERING
PLANNING
ENVIRONMENT**

NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
WD1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS							REFERENCE DRAWINGS	

GENERAL NOTES
 1. Coordinates in terms of : New Zealand Transverse Mercator Projection
 2. Elevations in terms of : NZ Vertical Datum 2016
 3. Contour interval is : 1m

LOCATION	TWIZEL
PROJECT No.	210982
A3 SCALE	1:400
DRAWN	J. STEPHENSON
CHECKED	

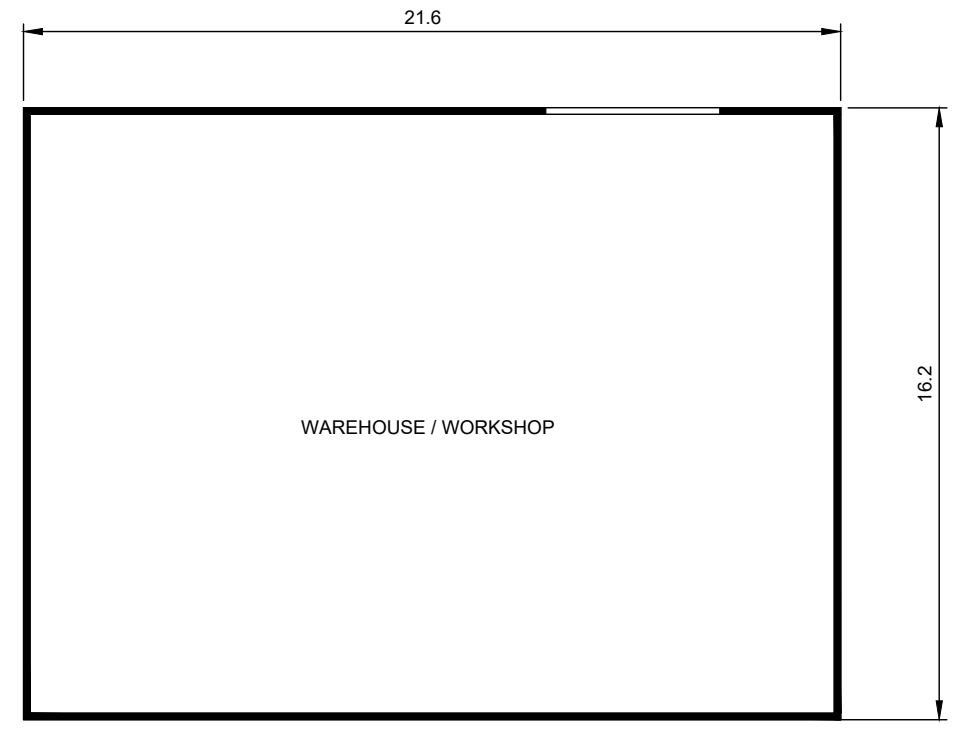
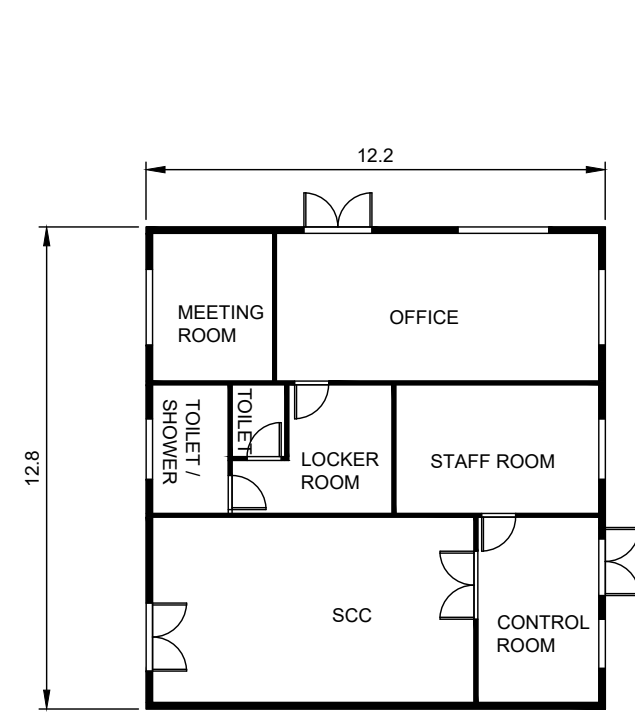
TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		O&M BUILDING - PRELIMINARY THREE WATERS PLAN	
ORIGINAL SIZE	DRAWING No.	SHEET	REVISION
A3	210982-02	GD12	WD

File Name: C:\125\data\BTW12D1210982 - Todd Generation Taranaki Ltd_3679107 Drawings\210982-00-02 Base drawing.dwg - GB12 Plot Date: 19/05/2026 Plot Time: 14:24

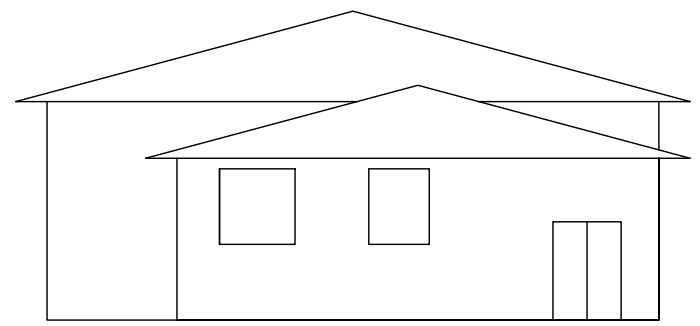
File Name: C:\125\data\BTW\121210982 - Todd Generation Taranaki Ltd_3679107 Drawings\210982-00-02 Base drawing.dwg - GD13 Plot Date: 19/05/2026 Plot Time: 14:24

- NOTES**
1. ALL WORKS SHALL BE IN ACCORDANCE WITH THE NEW ZEALAND BUILDING CODE AND LOCAL COUNCILS INFRASTRUCTURE CODE OF PRACTICE UNLESS SPECIFIED OTHERWISE.
 2. ALL BUILDING WORK TO COMPLY WITH THE NEW ZEALAND BUILDING CODE AND NZS 3404 PARTS 1 AND 2:1997 STEEL STRUCTURES STANDARD - BUILDINGS AND/OR NZS 3606:2011 TIMBER-FRAMED BUILDINGS.
 3. ALL WASTEWATER TREATMENT AND DISPOSAL SHALL BE IN ACCORDANCE WITH NZBC G13/AS1 AND G13/VM4 FOUL WATER ON-SITE DISPOSAL, DESIGN SHALL COMPLY WITH AS/NZS 1547:2012 - ON-SITE DOMESTIC WASTEWATER MANAGEMENT.
 4. ALL STORMWATER TREATMENT AND DISPOSAL SHALL BE IN ACCORDANCE WITH NZBC E1 SURFACE WATER.
 5. POTABLE WATER SUPPLY TO BE HARVESTED FROM RAINWATER TANKS AND SHALL BE DESIGNED IN ACCORDANCE WITH NZBC G12 WATER SUPPLIES.

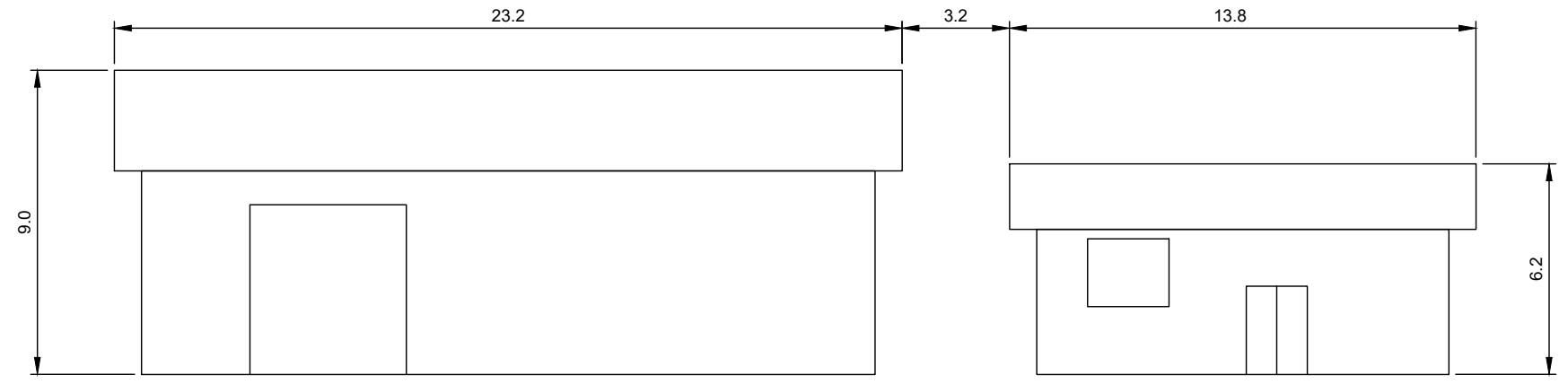
- CLADDING NOTES**
1. EXTERIOR CLADDINGS AND ROOFING MATERIALS SHALL BE COLOURED IN A DARK, NATURAL AND RECESSIVE COLOUR WITHIN THE HUES OF GREYS, GREENS AND BROWNS WHICH HAVE A LIGHT REFLECTANCE VALUE OF LESS THAN 30%.
 2. BUILDING TO USE/BE FINISHED IN A BS5252, RESENE NATURAL RANGE, DULUX ACRATEX EARTHTONES, OR EQUIVALENT COLOUR PALETTE.
 3. CLADDING MATERIALS AND FINISHES TO BE CONFIRMED AT DETAILED DESIGN



FLOOR PLAN
SCALE 1:200



WEST ELEVATION
SCALE 1:200



NORTH ELEVATION
SCALE 1:200



SCALE 1 : 200

ISSUED FOR CONSENT

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ENVIRONMENT**

NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
WD1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS								
REFERENCE DRAWINGS								

GENERAL NOTES
1. Coordinates in terms of : NA
2. Elevations in terms of : NA
3. Contour interval is : NA

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:200
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		O&M BUILDING - LAYOUT PLAN AND ELEVATIONS	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	GD13	WD

LEGEND	
POWER SUPPLY	
FIBRE OPTIC	
WATER	
SEWER	
DIRTY WATER DIVERSION	
DRAINAGE FLOW	
SLOPE	
EDGE OF BUILDING	
ACCESS TRACK	
GRAVEL	
VEGETATED SWALE	
40 ft CONTAINER	
20 ft CONTAINER	
COVERED WALKWAY	
OUTDOOR AREA WITH DOME SHELTER	
WATER TANKS	

- NOTES**
1. ALL WASTEWATER SHALL BE COLLECTED IN HOLDING TANKS AND DISPOSED OFF-SITE. WASTEWATER SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH NZBC G13/AS1.
 2. ALL STORMWATER TREATMENT AND DISPOSAL SHALL BE IN ACCORDANCE WITH APPROVED EROSION AND SEDIMENT CONTROL PLANS.
 3. POTABLE WATER TO BE SUPPLIED TO SITE AND HELD IN STORAGE TANKS. WATER SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH NZBC G12/AS1 WATER SUPPLIES.
 4. ALL SERVICE ARE SHOWN INDICATIVE ONLY WITH FINAL SYSTEMS AND LAYOUT TO BE CONFIRMED DURING DETAILED DESIGN.
 5. APPROPRIATE LOCAL AND REGIONAL COUNCIL CONSENTS ARE TO BE APPROVED PRIOR TO COMMENCEMENT OF WORKS.
 6. ALL WORKS TO CONFORM WITH ECAN'S SEDIMENT AND EROSION CONTROL REQUIREMENTS. ALL EXPOSED (CUT AND FILL) SLOPES AND EARTH BUNDS TO BE STABILISED UPON COMPLETION OF WORKS.
 7. PORTACOMS AND CONTAINERS TO HAVE MINIMUM FINISHED FLOOR LEVEL (FFL) 300 mm ABOVE THE IDENTIFIED 500-YEAR ARI FLOOD LEVEL.

Disclaimer:
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ISSUED FOR CONSENT

PLAN
SCALE 1:1000



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ENVIRONMENT**

NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
WD1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS							NUMBER	TITLE
							REFERENCE DRAWINGS	

GENERAL NOTES
1. Coordinates in terms of : New Zealand Transverse Mercator Projection
2. Elevations in terms of : NZ Vertical Datum 2016
3. Contour interval is : 1m

LOCATION	TWIZEL
PROJECT No.	210982
A3 SCALE	1:1000
SURVEYED	-
DRAWN	J.STEPHENSON 09/2024
CHECKED	-

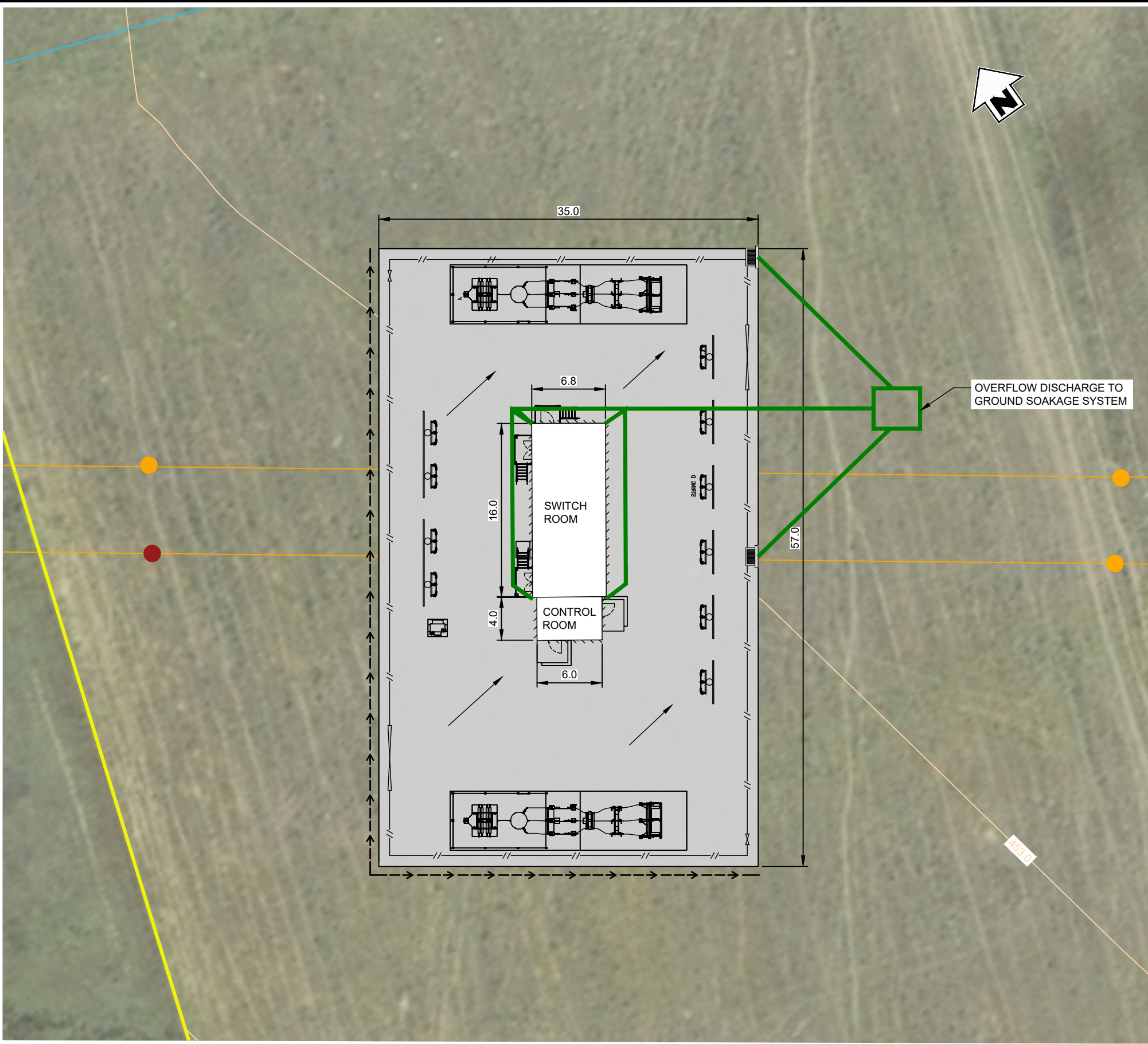
TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		CONSTRUCTION OFFICES / LAYDOWN - LAYOUT PLAN	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	GD14	WD

File Name: C:\123\data\BTW121210982 - Todd Generation Taranaki Ltd_3679107 Drawings\210982-00-02 Base drawing.dwg - GD15 Plot Date: 19/05/2026 Plot Time: 14:24

LEGEND	
SITE BOUNDARY	
33 kV POWER LINE	
15.2m POWER POLE	
10.6m POWER POLE	
FENCE	
GATE	
DRAINAGE FLOW	
STORMWATER	
CATCHPIT	
SLOPE	
EDGE OF BUILDING	
ACCESS TRACK	
CONCRETE	

- NOTES**
- ALL WASTEWATER SHALL BE COLLECTED IN HOLDING TANKS AND DISPOSED OFF-SITE. WASTEWATER SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH NZBC G13/AS1.
 - ALL STORMWATER TREATMENT AND DISPOSAL SHALL BE IN ACCORDANCE WITH NZBC E1 SURFACE WATER.
 - POTABLE WATER TO BE SUPPLIED TO SITE AND HELD IN STORAGE TANKS. WATER SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH NZBC G12/AS1 WATER SUPPLIES
 - ALL SERVICE ARE SHOWN INDICATIVE ONLY WITH FINAL SYSTEMS AND LAYOUT TO BE CONFIRMED DURING DETAILED DESIGN.
 - APPROPRIATE LOCAL AND REGIONAL COUNCIL CONSENTS ARE TO BE APPROVED PRIOR TO COMMENCEMENT OF WORKS.
 - ALL WORKS TO CONFORM WITH ECAN'S SEDIMENT AND EROSION CONTROL REQUIREMENTS. ALL EXPOSED (CUT AND FILL) SLOPES AND EARTH BUNDS TO BE STABILISED UPON COMPLETION OF WORKS.
 - BUILDINGS TO HAVE MINIMUM FINISHED FLOOR LEVEL (FFL) 300 mm ABOVE THE IDENTIFIED 500-YEAR ARI FLOOD LEVEL.

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PLAN
SCALE 1:400



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ENVIRONMENT**

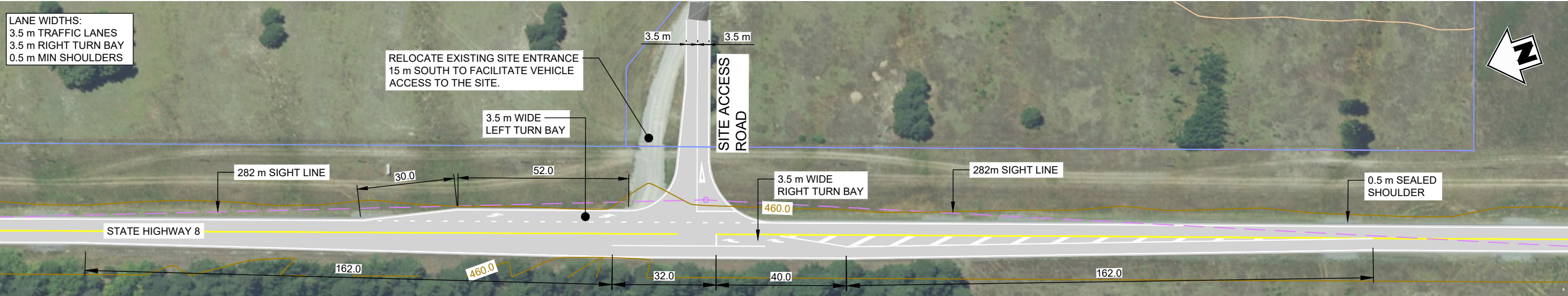
NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
WD1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS							REFERENCE DRAWINGS	

GENERAL NOTES
1. Coordinates in terms of : New Zealand Transverse Mercator Projection
2. Elevations in terms of : NZ Vertical Datum 2016
3. Contour interval is : 1m

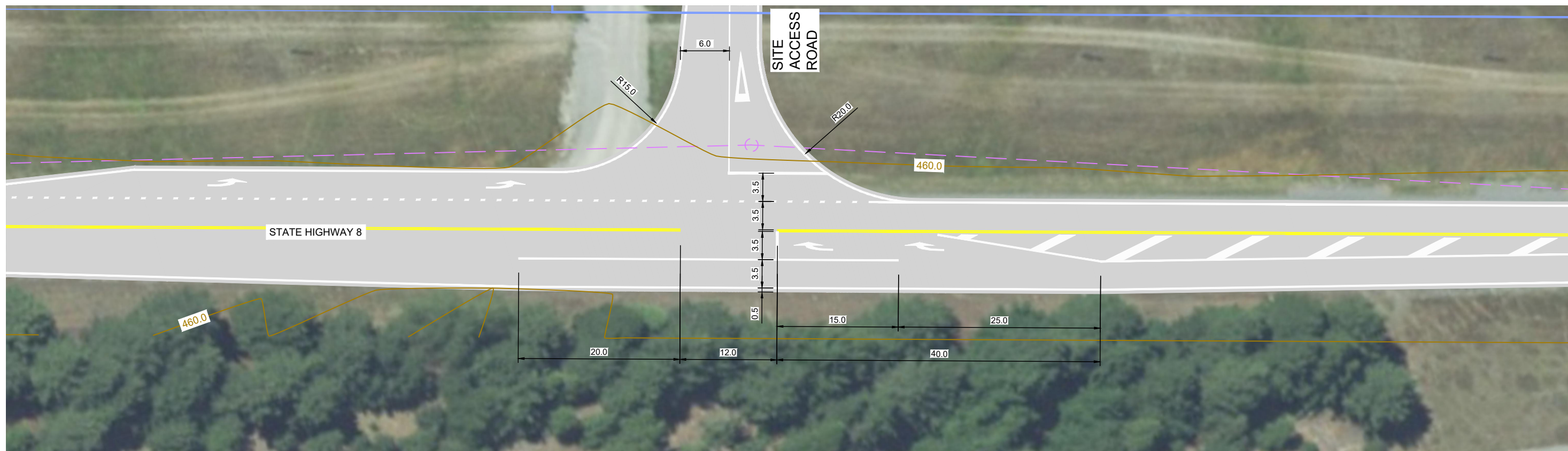
LOCATION	TWIZEL
PROJECT No.	210982
A3 SCALE	1:400
SURVEYED	-
DRAWN	J.STEPHENSON 09/2024
CHECKED	-

TITLE	NOVA ENERGY LTD SOLAR FARM - LOT 3 DP 422901 33kV SWITCHYARD LAYOUT PLAN	
ORIGINAL SIZE	A3	DRAWING No
		210982-02

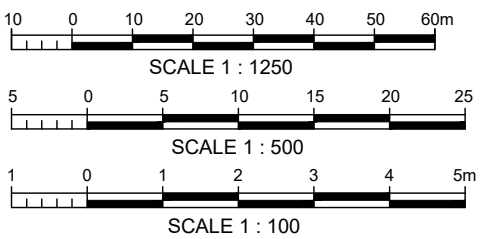
SHEET	REVISION
GD15	WD



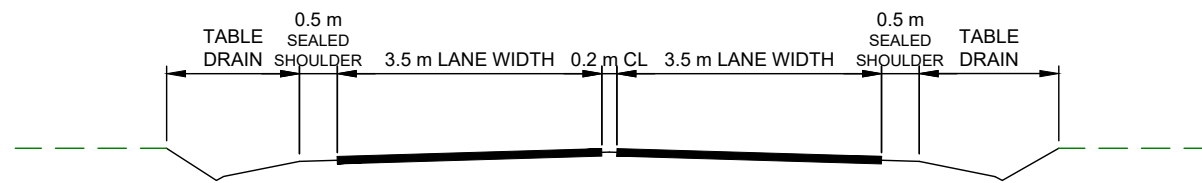
INTERSECTION LAYOUT PLAN
SCALE 1:1250



INTERSECTION LAYOUT PLAN
SCALE 1:500



Disclaimer:
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TYPICAL ROAD CROSS SECTION
SCALE 1:100

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ENVIRONMENT

NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS							REFERENCE DRAWINGS	

GENERAL NOTES
1. Coordinates in terms of : New Zealand Transverse Mercator Projection
2. Elevations in terms of : NZ Vertical Datum 2016
3. Contour interval is : 1m

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	AS SHOWN
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

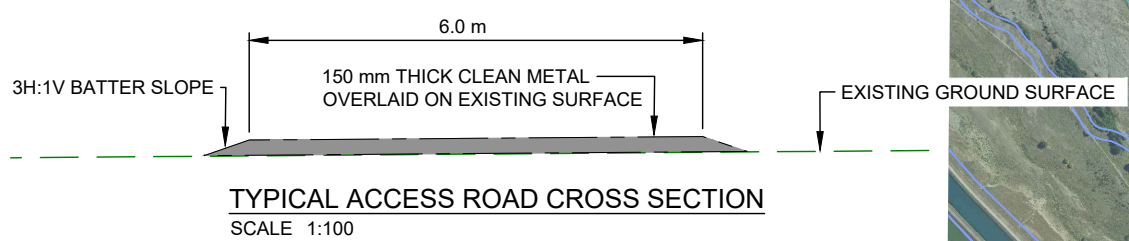
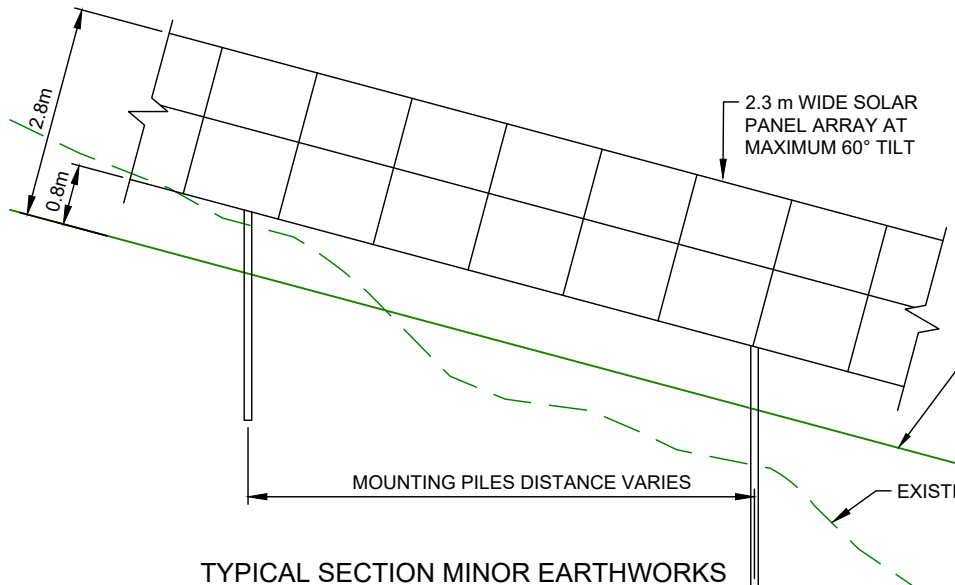
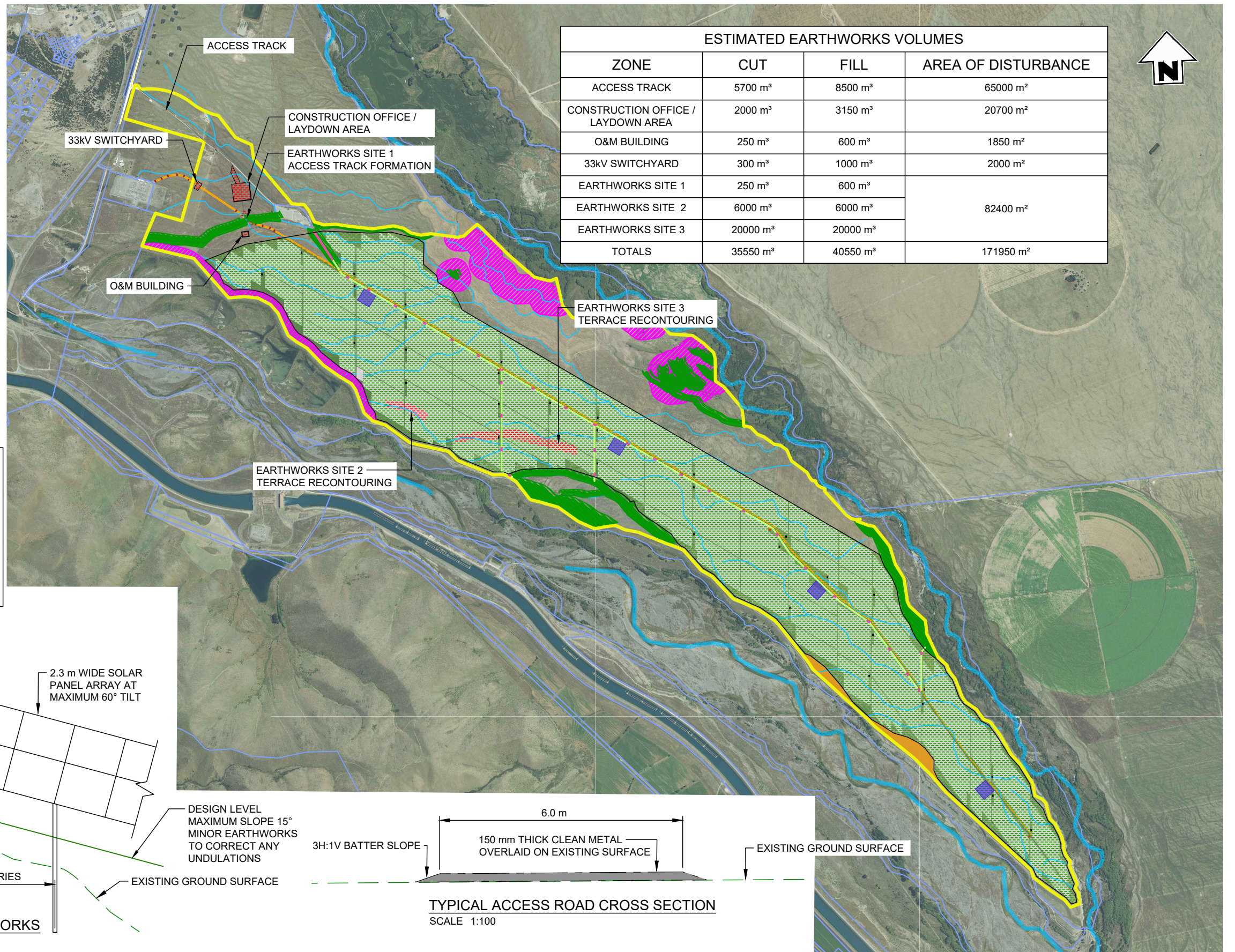
TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		ENTRANCEWAY LAYOUT PLAN	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	RD1	WD

LEGEND

BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
SIGNIFICANT VEGETATION / HABITAT EXCLUSION AREA (INCLUDES 10m BUFFER)	
SIGNIFICANT VEGETATION SOLAR STRUCTURE SHADING BUFFER	
LIZARD HABITAT ENRICHMENT CORRIDOR	
BIODIVERSITY NODES	
NATURAL WETLAND EXCLUSION AREA (INCLUDES 100m BUFFER)	
SITE OF NATURAL SIGNIFICANCE EXCLUSION AREA (INCLUDES 10m BUFFER)	
SITE OF SIGNIFICANCE TO MAORI - WATERBODIES	
INVERTERS	
ACCESS TRACK	
FIRE WATER TANK	
WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	
AREA OF MODERATE EARTHWORKS	
AREA OF MINOR / NIL EARTHWORKS	

- GENERAL NOTES :**
1. PRELIMINARY PLAN EARTHWORKS SHOWN AS INDICATIVE ONLY.
 2. MINOR EARTHWORKS REQUIRED ACROSS GENERAL SITE TO FORM SITE ACCESS TRACK AND PILING / INSTALLATION OF SOLAR PANELS.
 3. MODERATE EARTHWORKS REQUIRED TO RESHAPE TERRACES TO GRADIENTS SUITABLE FOR SOLAR ARRAYS - SEE TYPICAL SECTION MINOR EARTHWORKS.
 4. EARTHWORKS VOLUMES ARE BASED ON A BEST ESTIMATE BASIS AND SUBJECT TO DETAILED DESIGN FOR CONFIRMATION OF VOLUMES

ESTIMATED EARTHWORKS VOLUMES			
ZONE	CUT	FILL	AREA OF DISTURBANCE
ACCESS TRACK	5700 m ³	8500 m ³	65000 m ²
CONSTRUCTION OFFICE / LAYDOWN AREA	2000 m ³	3150 m ³	20700 m ²
O&M BUILDING	250 m ³	600 m ³	1850 m ²
33KV SWITCHYARD	300 m ³	1000 m ³	2000 m ²
EARTHWORKS SITE 1	250 m ³	600 m ³	82400 m ²
EARTHWORKS SITE 2	6000 m ³	6000 m ³	
EARTHWORKS SITE 3	20000 m ³	20000 m ³	
TOTALS	35550 m³	40550 m³	171950 m²



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PLAN
SCALE 1:30000

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NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS								
REFERENCE DRAWINGS								

GENERAL NOTES
1. Coordinates in terms of : New Zealand Transverse Mercator Projection
2. Elevations in terms of : NZ Vertical Datum 2016
3. Contour interval is : 1m

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:30000
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		PRELIMINARY EARTHWORKS PLAN	
ORIGINAL SIZE	A3	DRAWING No	210982-02
SHEET	EW1	REVISION	WD

LEGEND

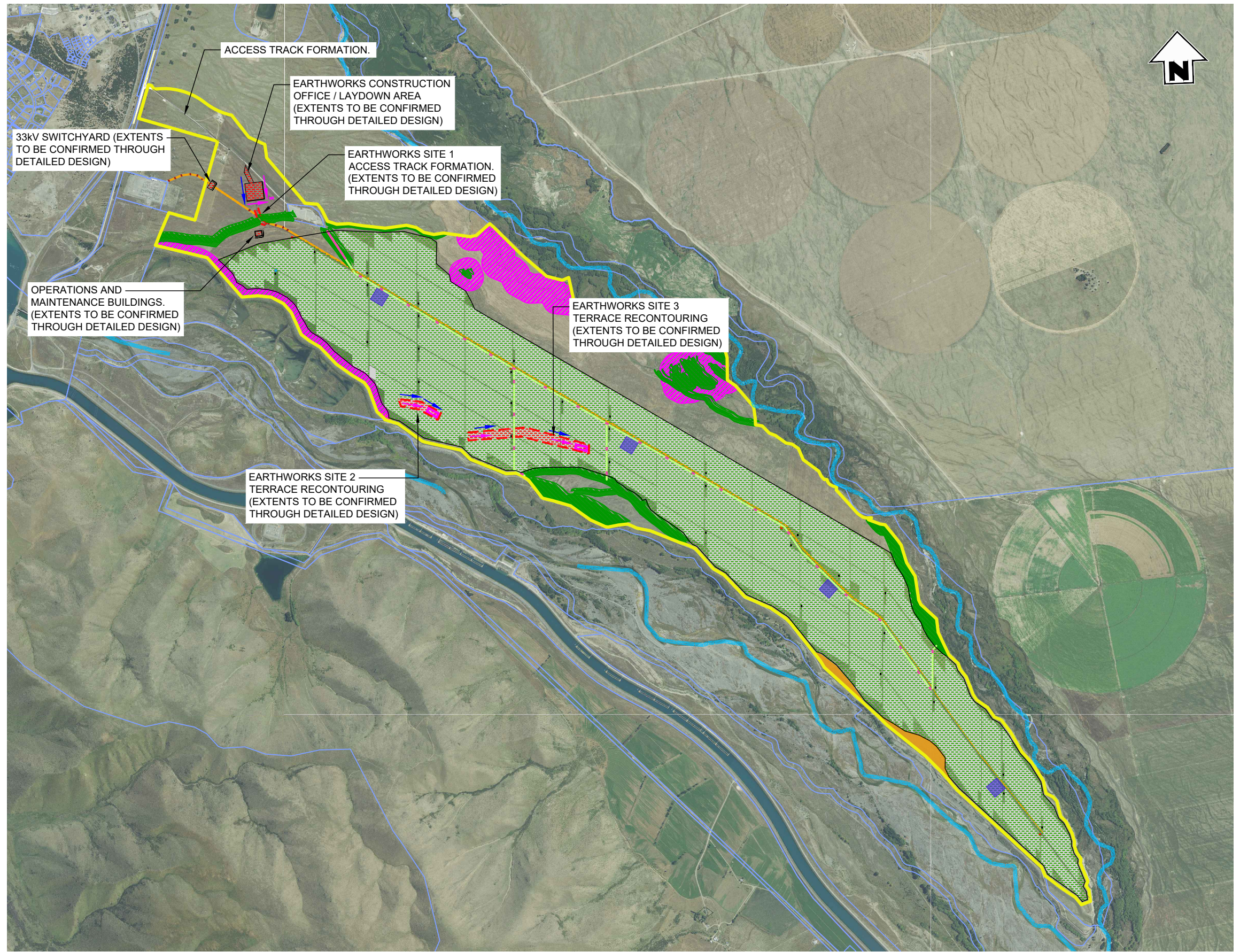
BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
SIGNIFICANT VEGETATION / HABITAT EXCLUSION AREA (INCLUDES 10m BUFFER)	
SIGNIFICANT VEGETATION SOLAR STRUCTURE SHADING BUFFER	
LIZARD HABITAT ENRICHMENT CORRIDOR	
BIODIVERSITY NODES	
NATURAL WETLAND EXCLUSION AREA (INCLUDES 100m BUFFER)	
SITE OF NATURAL SIGNIFICANCE EXCLUSION AREA (INCLUDES 10m BUFFER)	
SITE OF SIGNIFICANCE TO MAORI - WATERBODIES	
INVERTERS	
ACCESS TRACK	
FIRE WATER TANK	
WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	
AREA OF MODERATE EARTHWORKS	
AREA OF MINOR / NIL EARTHWORKS	

LEGEND - EROSION SEDIMENT CONTROL

CLEAN WATER DIVERSION	
DIRTY WATER DIVERSION	
POND / DECANTING EARTH BUND	
EROSION SEDIMENT CONTROL AREAS	
SILT FENCE	

GENERAL NOTES

1. DRAWINGS TO BE READ IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL PLAN REPORT.
2. ALL EROSION AND SEDIMENT CONTROLS TO BE IN ACCORDANCE WITH ENVIRONMENTAL CANTERBURY REGIONAL COUNCIL EROSION AND SEDIMENT CONTROLS TOOLBOX.
3. ALL EXPOSED (CUT AND FILL) SLOPES AND EARTH BUNDS TO BE STABILISED UPON COMPLETION OF WORKS.
4. APPROPRIATE LOCAL AND REGIONAL COUNCIL CONSENTS ARE TO BE APPROVED PRIOR TO COMMENCEMENT OF WORKS UNLESS AGREED OTHERWISE WITH PROJECT ENGINEER.



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PLAN
SCALE 1:30000

Disclaimer:
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NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
WD1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS								
REFERENCE DRAWINGS								

GENERAL NOTES
1. Coordinates in terms of : New Zealand Transverse Mercator Projection
2. Elevations in terms of : NA
3. Contour interval is : NA

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:30000
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		PRELIMINARY EROSION SEDIMENT CONTROL PLAN	
ORIGINAL SIZE	A3	DRAWING No	210982-02
SHEET	ES1	REVISION	WD

LEGEND

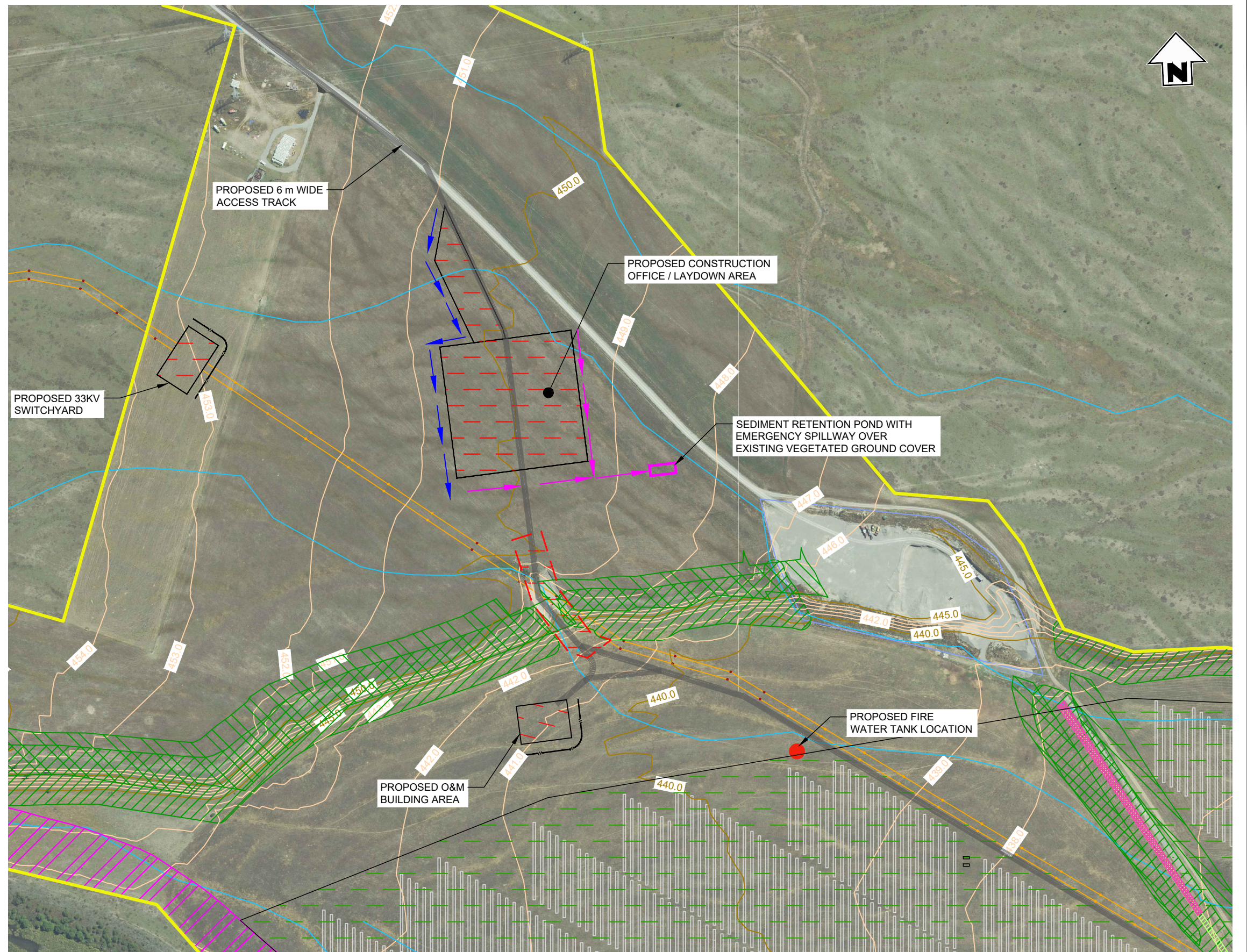
BOUNDARIES	
SITE BOUNDARY	
33KV POWER LINE	
15.2 m POWER POLE	
10.6 m POWER POLE	
PANEL AREA	
SIGNIFICANT VEGETATION / HABITAT EXCLUSION AREA (INCLUDES 10m BUFFER)	
SIGNIFICANT VEGETATION SOLAR STRUCTURE SHADING BUFFER	
LIZARD HABITAT ENRICHMENT CORRIDOR	
BIODIVERSITY NODES	
NATURAL WETLAND EXCLUSION AREA (INCLUDES 100m BUFFER)	
SITE OF NATURAL SIGNIFICANCE EXCLUSION AREA (INCLUDES 10m BUFFER)	
INVERTERS	
ACCESS TRACK	
FIRE WATER TANK	
WATER BORE	
STORMWATER FLOW PATHS	
TEMPORARY CONSTRUCTION PADS	
AREA OF MODERATE EARTHWORKS	
AREA OF MINOR / NIL EARTHWORKS	

LEGEND - EROSION SEDIMENT CONTROL

CLEAN WATER DIVERSION	
DIRTY WATER DIVERSION	
SEDIMENT RETENTION POND	
EROSION SEDIMENT CONTROL AREAS	
SILT FENCE	

GENERAL NOTES

- DRAWINGS TO BE READ IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL PLAN REPORT.
- ALL EROSION AND SEDIMENT CONTROLS TO BE IN ACCORDANCE WITH ENVIRONMENTAL CANTERBURY REGIONAL COUNCIL EROSION AND SEDIMENT CONTROLS TOOLBOX.
- ALL EXPOSED (CUT AND FILL) SLOPES AND EARTH BUNDS TO BE STABILISED UPON COMPLETION OF WORKS.
- APPROPRIATE LOCAL AND REGIONAL COUNCIL CONSENTS ARE TO BE APPROVED PRIOR TO COMMENCEMENT OF WORKS UNLESS AGREED OTHERWISE WITH PROJECT ENGINEER.



PLAN
SCALE 1:4000

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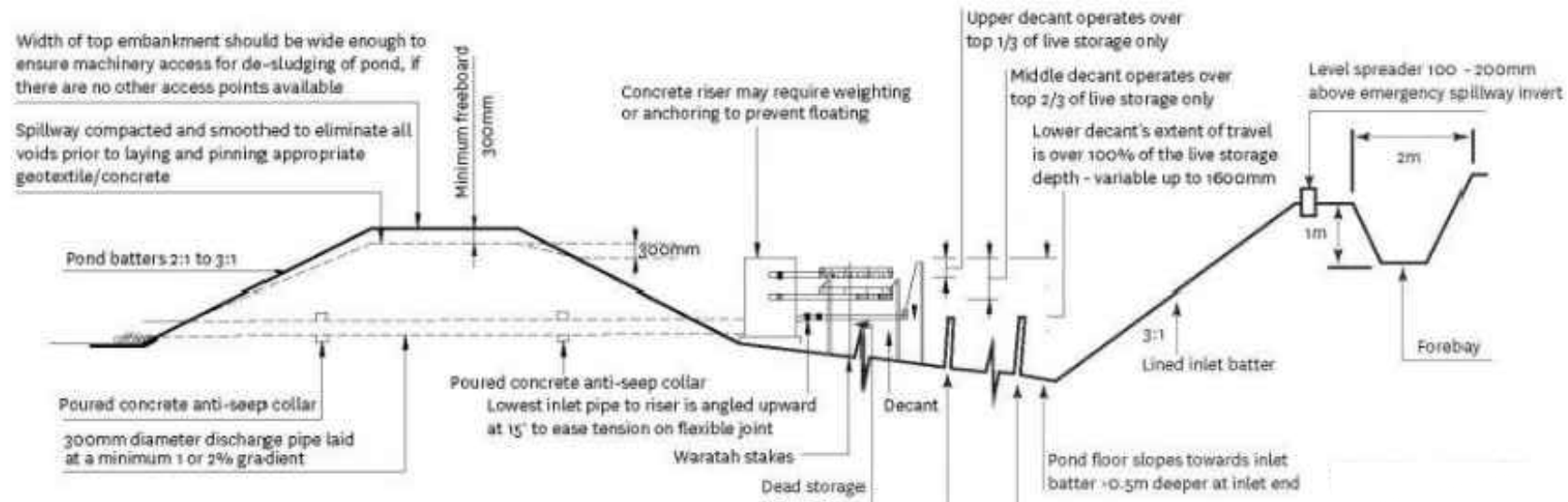
NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS								
REFERENCE DRAWINGS								

GENERAL NOTES
1. Coordinates in terms of : New Zealand Transverse Mercator Projection
2. Elevations in terms of : NZ Vertical Datum 2016
3. Contour interval is : 1m

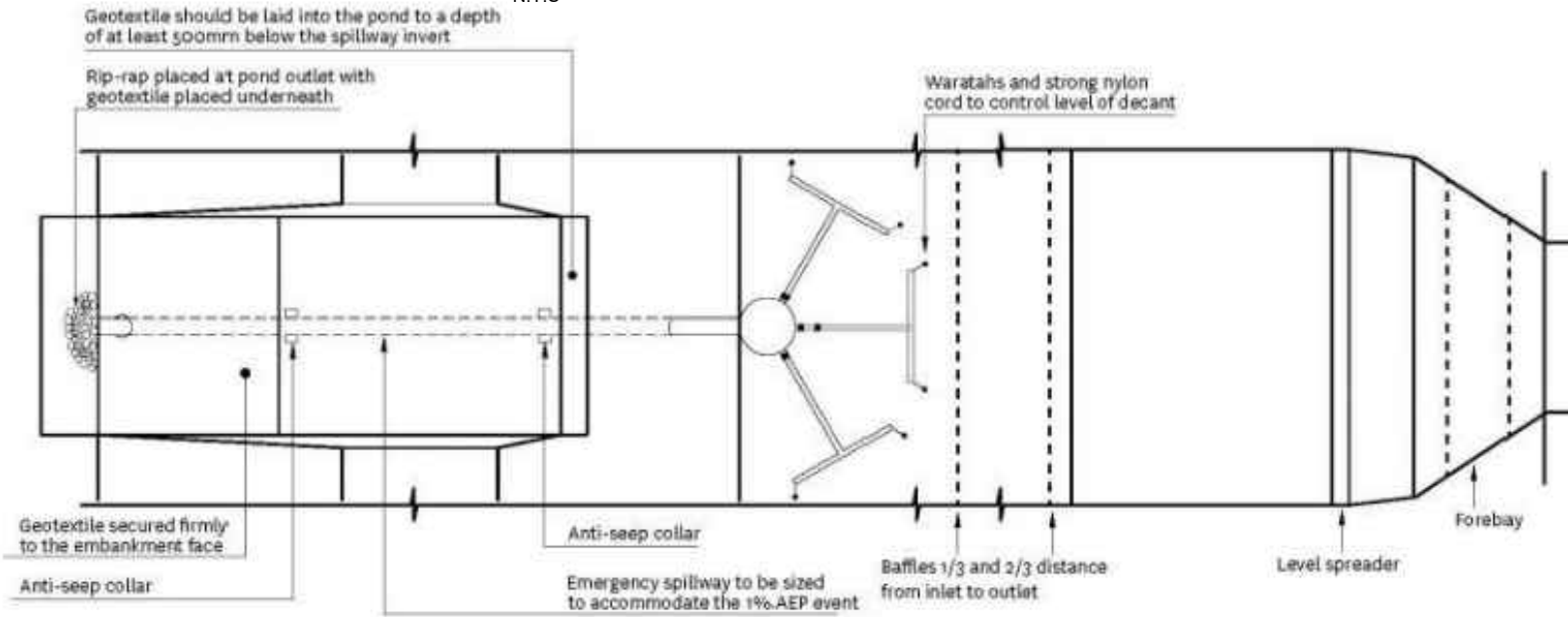
LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	1:4000
SURVEYED	-
DRAWN	J.STEPHENSON
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		PRELIMINARY ESCP - O&M / CONSTRUCTION LAYDOWN	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	ES2	WD

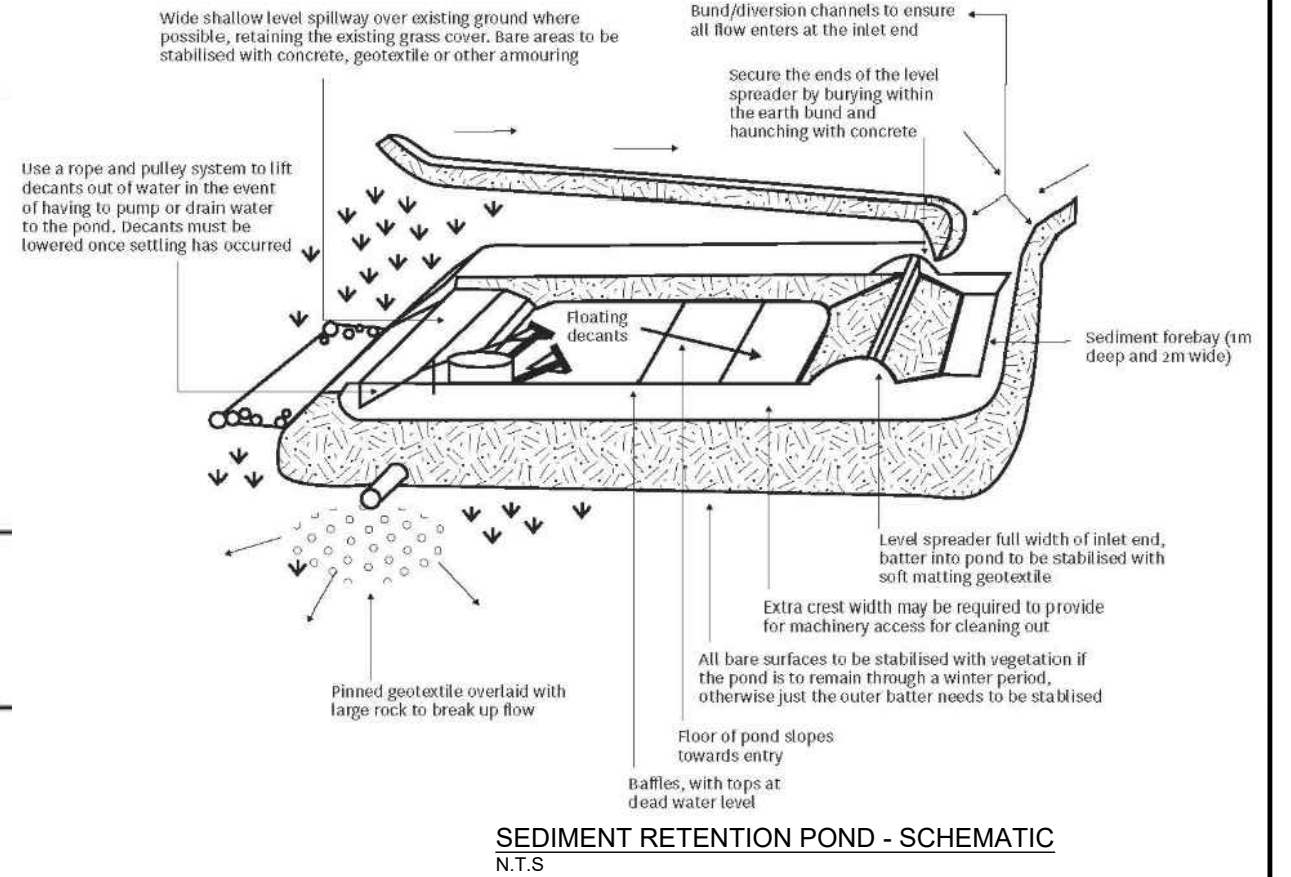
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SEDIMENT RETENTION POND 3 TO 5 HA - SECTION
N.T.S



SEDIMENT RETENTION POND 3 TO 5 HA - PLAN
N.T.S



SEDIMENT RETENTION POND - SCHEMATIC
N.T.S

ISSUED FOR CONSENT

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BTW
COMPANY

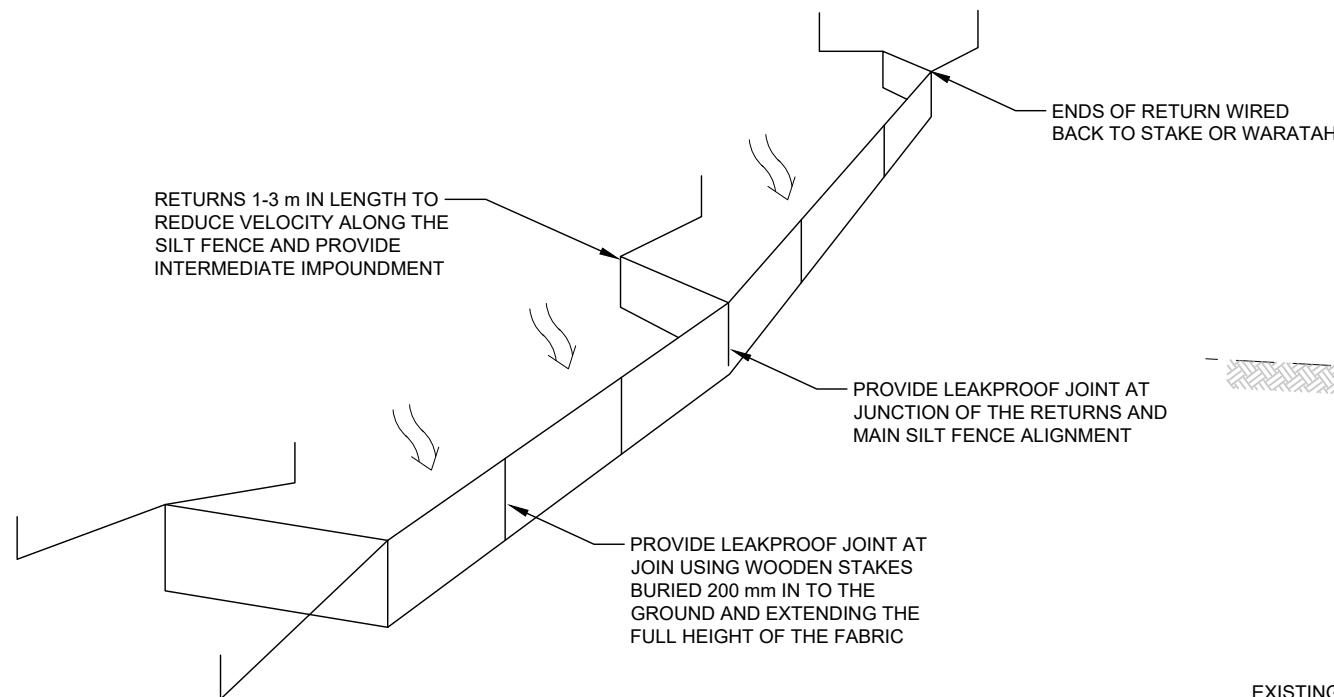
**SURVEYING
ENGINEERING
PLANNING
ENVIRONMENT**

NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS								
REFERENCE DRAWINGS								

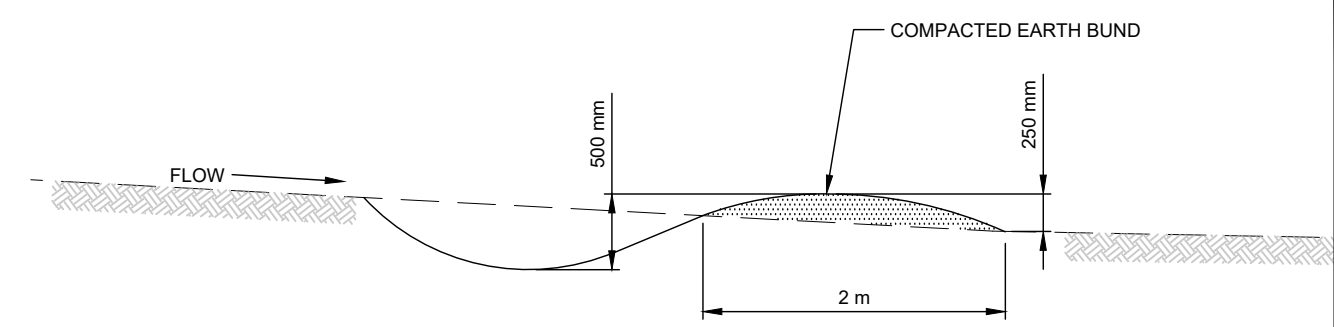
GENERAL NOTES
1. Coordinates in terms of : NA
2. Elevations in terms of : NA
3. Contour interval is : NA

LOCATION	TWIZEL	TITLE	NOVA ENERGY LTD		
PROJECT No	210982	SOLAR FARM - LOT 3 DP 422901			
A3 SCALE	N.T.S	ESCP - TYPICAL POND DETAILS FOR 5 HA CATCHMENT			
SURVEYED	-	ORIGINAL SIZE	DRAWING No	SHEET	REVISION
DRAWN	J.STEPHENSON	A3	210982-02	ES3	WD
CHECKED	-				

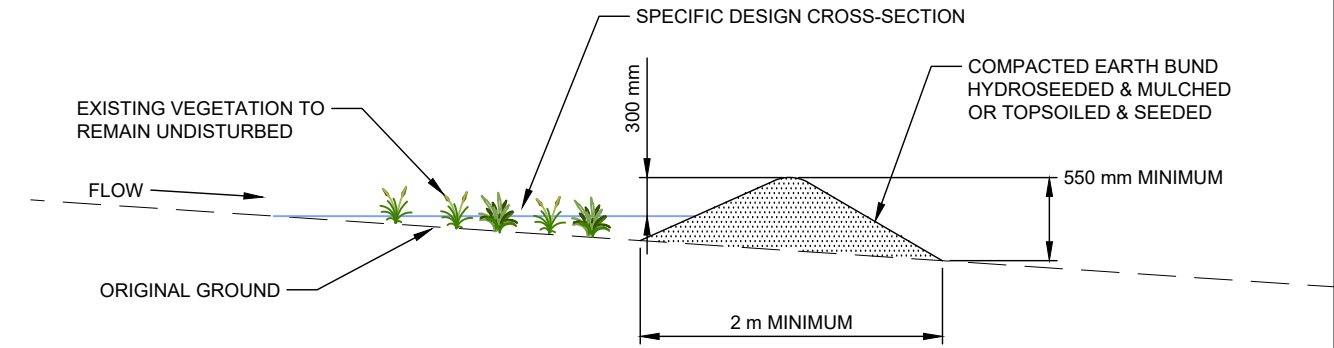
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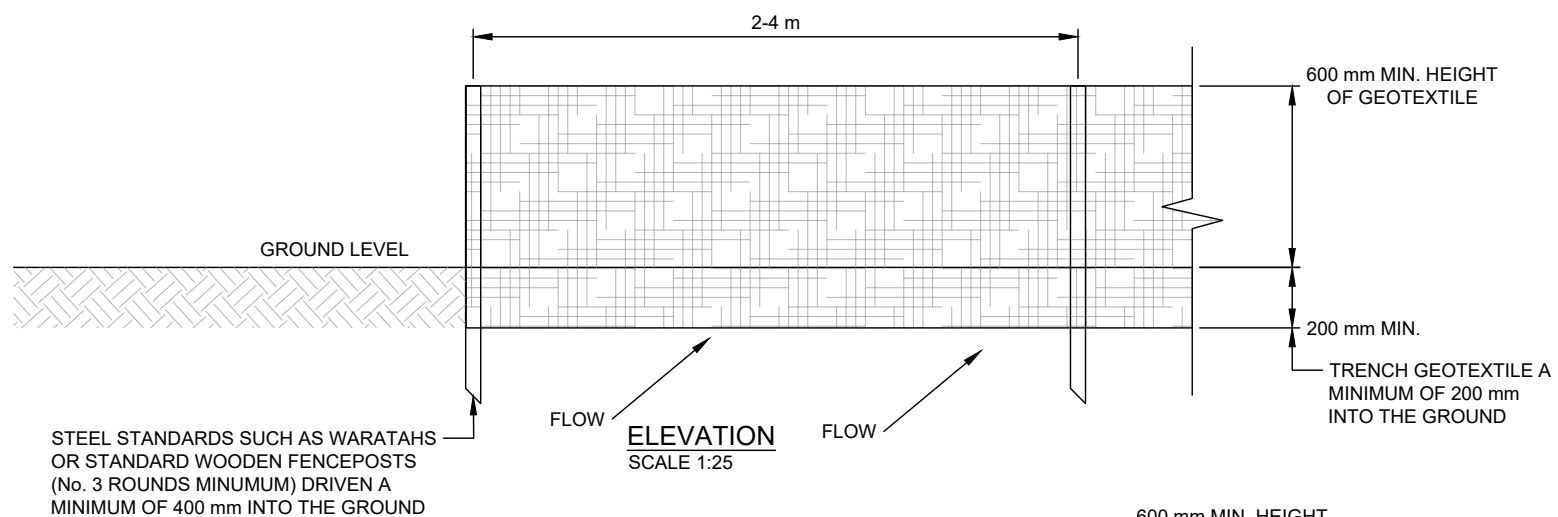
SILT FENCE WITH RETURNS AND SUPPORT WIRE
N.T.S



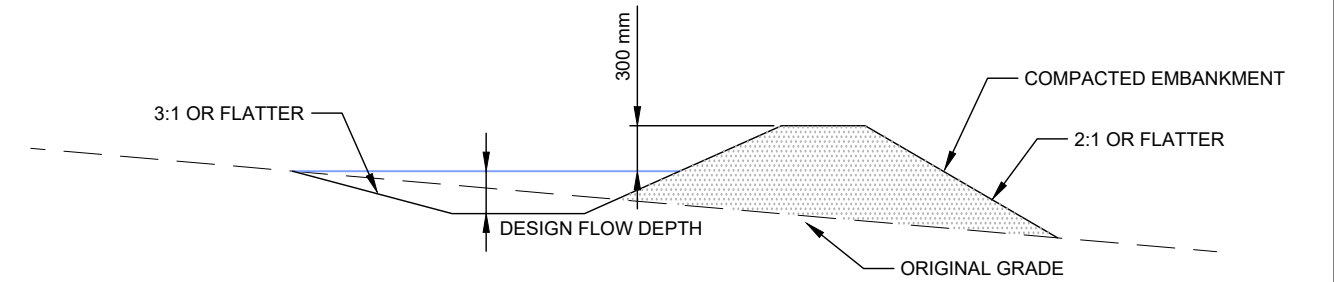
CONTOUR DRAIN - TYPICAL SECTION
SCALE 1:50



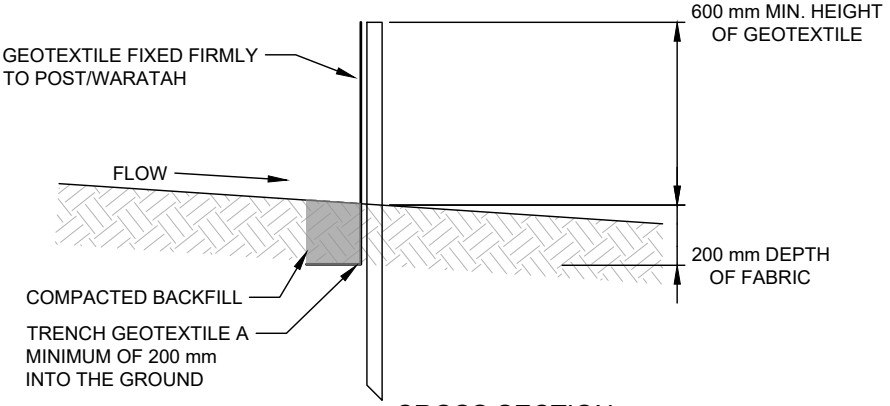
CLEAN WATER DIVERSION - TYPICAL SECTION
SCALE 1:50



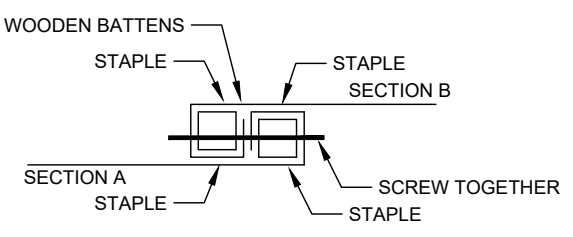
ELEVATION
SCALE 1:25



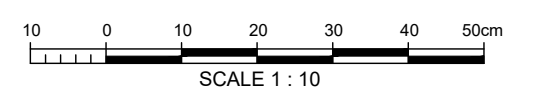
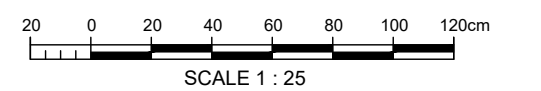
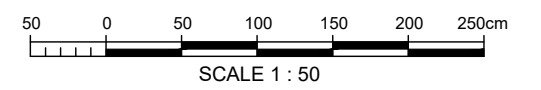
DIRTY WATER DIVERSION - TYPICAL SECTION
SCALE 1:50



CROSS SECTION
SCALE 1:25



STANDARD FABRIC JOINT
SCALE 1:10



Disclaimer:
Areas and dimensions may be subject to scale error.
Scaling from this drawing is at the users risk.

ISSUED FOR CONSENT



**SURVEYING
ENGINEERING
PLANNING
ENVIRONMENT**

NO	DATE	BY	CHKD	APPR	OPER	DESCRIPTION	NUMBER	TITLE
1	19.02.26	GH	SH			ISSUED FOR CONSENT		
REVISIONS								
REFERENCE DRAWINGS								

GENERAL NOTES
1. Coordinates in terms of : NA
2. Elevations in terms of : NA
3. Contour interval is : NA

LOCATION	TWIZEL
PROJECT No	210982
A3 SCALE	AS SHOWN
SURVEYED	-
DRAWN	J.STEPHENSON 09/2024
CHECKED	-

TITLE		NOVA ENERGY LTD	
		SOLAR FARM - LOT 3 DP 422901	
		ESCP - TYPICAL SILT FENCE AND DIVERSION CHANNEL	
ORIGINAL SIZE	DRAWING No	SHEET	REVISION
A3	210982-02	ES4	WD