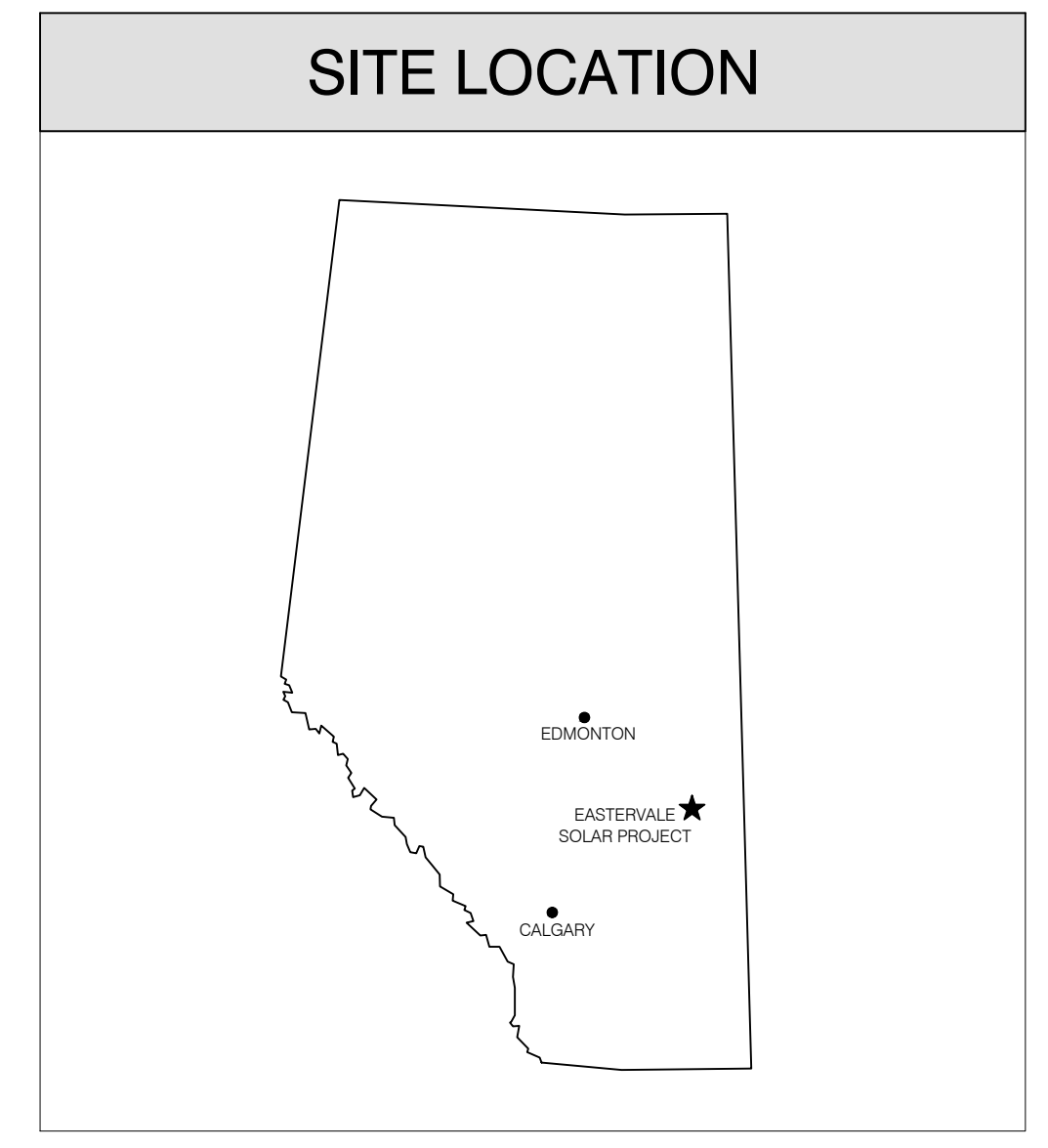


LEGEND	
DETAIL	DESCRIPTION
	PV TABLE
	PV TABLES WITH > 11° SLOPE - SEE NOTE 8
	AC COLLECTOR SYSTEM (U/G)
	BATTERY ENERGY STORAGE SYSTEM (BESS)
	BESS O&M FACILITIES
	FENCELINE
	INVERTER / TRANSFORMER SKID
	LAYDOWN AREAS
	MUNICIPAL ROADS + HIGHWAY R.O.W.
	PIPELINE
	RAPTOR NEST SETBACK
	RESIDENCE SETBACK
	SITE ROADS (NEW)
	SUBSTATION
	UTILITY - DISTRIBUTION LINE (EXISTING)
	UTILITY - TRANSMISSION LINE (EXISTING)
	WATERCOURSES + WETLANDS (CLASS I & II)
	WATERCOURSES + WETLANDS (CLASS III)
	WATERCOURSE + WETLAND SETBACKS
	WELL HEAD SETBACKS

PV SYSTEM	
PARAMETER	DESCRIPTION
PITCH SPACING	8.0 m
RACKING TYPE	FIXED TILT
TOTAL NO. TABLES	11,578
MODULE QUANTITY (600 W)	578,900
MODULE TYPE (BIFACIAL)	LONGI LR7-72HGD 600 W
MODULE ORIENTATION	PORTRAIT
MODULE TILT ANGLE	30 °
AC COLLECTOR SYSTEM (kV)	34.5
NO. OF AC COLLECTOR FEEDERS	10
INVERTER TYPE	SMA MVPS SC4600-S2
INVERTER QUANTITY	67
STRING LENGTH	25 MODULES
DC CAPACITY (MWdc)	347.34
AC INVERTER CAPACITY (MWac)	308.2 (+2.7% AC OVERBUILD)
AC GRID LIMIT (MWac)	300
DC/AC RATIO	1.15
GROUND COVERAGE RATIO	62.1%



- NOTES:**
- TOTAL FENCED AREA: 410.4 ha
 - TOTAL FENCE LENGTH: 16.1 km
 - TOTAL SITE ROAD LENGTH: 21.3 km
 - TOTAL AC COLLECTOR SYSTEM LENGTH: 30.7 km
 - BESS SIZE: 200 MW / 400 MWh
 - FOR THE PURPOSE OF THIS LAYOUT, THE GROUND COVERAGE RATIO (GCR) HAS BEEN CALCULATED AS:

$$GCR = \frac{\text{MODULE LENGTH}}{\text{PITCH}}$$
 - DIMENSIONS:
 - SUBSTATION: 150 x 150 m
 - BESS: 100 x 200 m
 - BESS O&M FACILITY: 25 x 30 m
 - TEMPORARY LAYDOWN AREAS: 100 x 100 m
 - THIS LAYOUT HAS BEEN DEVELOPED BASED ON GEO-REFERENCED WETLAND AND TOPOGRAPHIC FILES PROVIDED BY THE CLIENT, ALONG WITH DEFINED BUILDABLE AREAS.
 - ALL PV TABLES WITH > 11° SLOPE MAY REQUIRE SITE GRADING TO MEET RACKING MANUFACTURER RECOMMENDED SLOPE LIMITS.
 - ALL CLASS I AND II WETLANDS ARE ASSUMED BUILDABLE AREA. ALL CLASS III AND ABOVE ARE ASSUMED NON-BUILDABLE AREA.
 - ASSUMED FENCING MAY BE PLACED WITHIN BOTH WETLAND AND WETLAND SETBACKS.
 - A 30 m ROW HAS BEEN RESERVED ALONG THE EAST FENCE LINE NORTH OF THE SUBSTATION AREA TO ACCOMMODATE FOR A POTENTIAL NEW TRANSMISSION LINE.
 - THE CURRENT DESIGN IS PRELIMINARY AND MAY NOT BE OPTIMIZED UNTIL A DETAILED PVSYST REPORT CAN BE COMPLETED ON THE CURRENT DESIGN.

REV	DESCRIPTION	VERIFIED BY	APPROVED BY	DATE
AE	PRELIMINARY	H. YAZDANPANAHI	Y. BÉTOURNAY	2023-08-31
AD	PRELIMINARY	H. YAZDANPANAHI	Y. BÉTOURNAY	2023-06-07
AC	PRELIMINARY	H. YAZDANPANAHI	Y. BÉTOURNAY	2022-11-22
AG	FOR INFORMATION	R. GRAMS	Y. BÉTOURNAY	2023-10-26
AF	FOR INFORMATION	R. GRAMS	Y. BÉTOURNAY	2023-10-10

REVISIONS

FOR INFORMATION
 NOT TO BE USED FOR CONSTRUCTION

SEAL:		PROJECT: EASTERVALE SOLAR PROJECT
		TITLE: SOLAR PV PLANT GENERAL ARRANGEMENT PRELIMINARY SITE PLAN
	CLIENT: WESTBRIDGE ENERGY CORP	DESIGNED BY: R. GRAMS
		DRAFTED BY: R. GRAMS
		VERIFIED BY: H. YAZDANPANAHI
		APPROVED BY: Y. BÉTOURNAY
		SCALE: 1:9000
		DATE: 2022-10-04
		DRAWING No.: 7431003-000000-47-D20-0001
		SHEET: 01
		SIZE: A1
		REV: AG