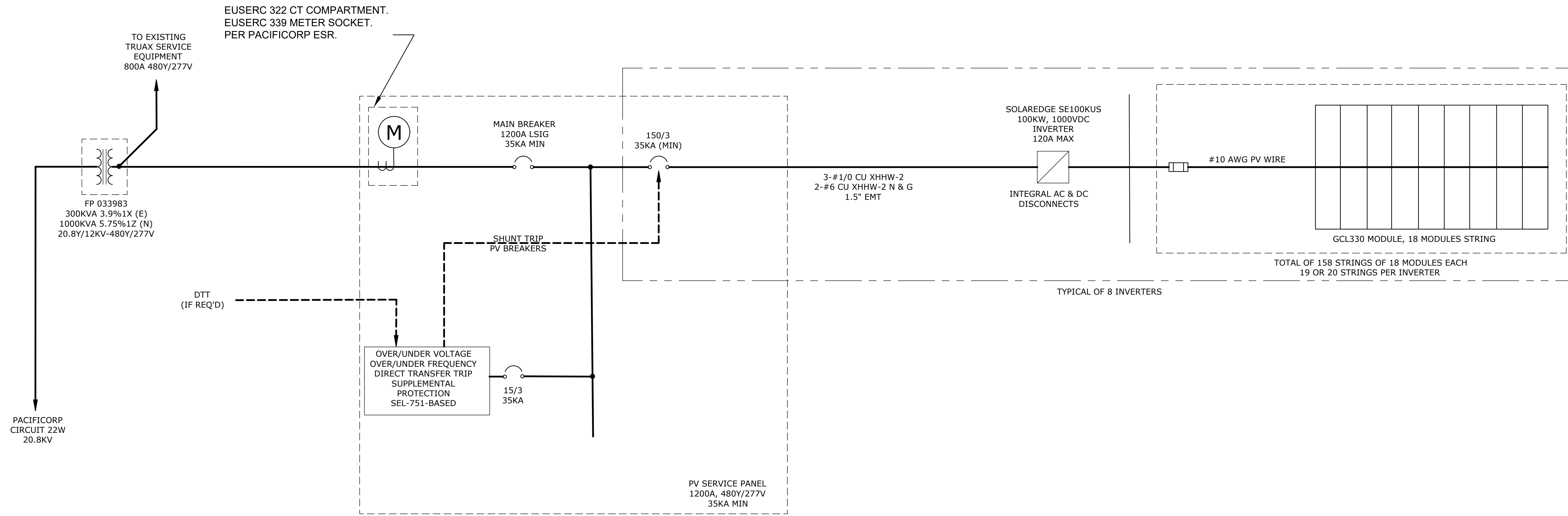


1 ROOF PLAN
Scale: 1/16"=1'-0"

TRUAX 800KW PHOTOVOLTAIC PROJECT
 Blue = Panel area
 Green = Dedicated clear areas

EIGHT 100KW INVERTERS
 SIX WITH 20 STRINGS OF 18 MODULES
 TWO WITH 19 STRINGS OF 18 MODULES
 2844 TOTAL MODULES
 938 KWDC STC RATING
 1.17 DC/AC RATIO

1. MODULES ARE ASSUMED TO BE 1500V, 3.28FT X 6.28FT IN DIMENSION, INSTALLED FLAT ON ROOF.
2. OREGON CODE REQUIRES MINIMUM 4FT PATHS, ALL EDGES, NOT MORE THAN 150FT APART.
3. INTERNATIONAL FIRE CODE REQUIRES CENTRAL PATHS TO INCLUDE ROOM FOR CUTOUPS.
4. CODE REQUIRES AT LEAST 4FT ON ALL SIDES OF VENTILATION STRUCTURES.
5. ONCE PATHS AND EDGES ARE ASSIGNED, MOUNTING AREA IS DETERMINED.
6. MODULE COUNT IS REDUCED TO FIT ENTIRE MODULES, LEAVING ADDITIONAL PATH SPACE.
7. 2 SQMETER MODULE WILL BE RATED -325-335W.
8. MAXIMUM MODULE COUNT IS 2850 MODULES.
9. STC PEAK RATING IS 940 500 WATTS
10. ASSUMING ABOUT 1.15 DC/AC RATING, INVERTER RATING COULD BE -818KW.
11. SUGGEST EIGHT 100KW INVERTERS FOR 800KW AC RATING.
12. EIGHT 100KW INVERTERS, SIX WITH 20 STRINGS, TWO WITH 19 STRINGS, 2844 MODULES TOTAL
13. ALTERNATE: EIGHT 100KW INVERTERS, ALL WITH 19 STRINGS OF 18, 2736 TOTAL MODULES.



TRUAX 800KW PHOTOVOLTAIC PROJECT

EIGHT 100KW INVERTERS
 SIX WITH 20 STRINGS OF 18 MODULES
 TWO WITH 19 STINGS OF 18 MODULES
 2844 TOTAL MODULES
 938 KWDC STC RATING
 1.17 DC/AC RATIO

SYSTEM DESIGN NOTE:

INVERTERS WILL COMPLY WITH PACIFICORP POLICY 138, SPECIFICALLY THE REQUIREMENT FOR COMPLIANCE WITH IEEE 1547-2018 7.4.2 FOR TOV.

**WILLAMETTE
 POWER
 ENGINEERING**

TriAxis

A DIVISION OF
 DAVID EVANS AND ASSOCIATES

NO.	DATE	REVISION	DR	BY	APVD
A	09/09/19	PRELIMINARY	RCH	MB	MB

DESIGNED BY:	M BEANLAND	DATE:	SEP 2019
DRAFTED BY:	R HAMMEL	DRAWING NO.:	SINGLE LINE DIAGRAMS
CHECKED BY:	M ANTONISHEN	PROJECT NO.:	ORSU0000-8101
APPROVED BY:	M BEANLAND	REVISION NO.:	A

OREGON STATE
 UNIVERSITY

TRUAX SINGLE LINE DIAGRAM

SHEET NO.

1

PRELIMINARY