Response to CEC Staff Data Adequacy Comments

Technical Area: Project Overview

Following are additional information and/or clarifications in response to the specific issues raised in the CEC staff Data Adequacy review. For each specific area where the questions were raised by CEC staff, the applicable section of the CEC Siting Regulations is identified, followed by the "Information Required to Make AFC Conform with Regulations," followed by the supplemental/clarifying information.

PO-1. Appendix B (b)(2)(C).

TRANSMISSION SYSTEM DESIGN-3 Appendix B(b)(2)(c)

Information Required:

1. Please resubmit Figure 2-10. Show all equipment ratings including generators, transformers, circuit breakers, disconnect switches, and etc. which required for the project.

Please see attached Figures 2-10 and 2-10C.

2. Please provide detail drawings for the take off structures which are required in interconnecting the 230 kV transmission lines from the proposed power plant to the existing Vincent Substation.

Please see attached Figure 2-10A.

3. Provide a one-line diagram for the existing SCE Vincent Substation before the interconnection of the project.

The pre and post conditions are currently being modified by SCE. The pre-substation configuration is undergoing modifications and upgrades, and won't be available until SCE completes their upgrades. This is also being addressed in the Facility Study which the CAISO has indicated will be completed by the end of September, or at the latest in early October.

4. Provide a one-line diagram for the existing SCE Vincent Substation after the addition of the project. Show all equipment ratings including bay arrangement of the breakers, disconnect switches, buses, and etc. which are required for the addition of the project.

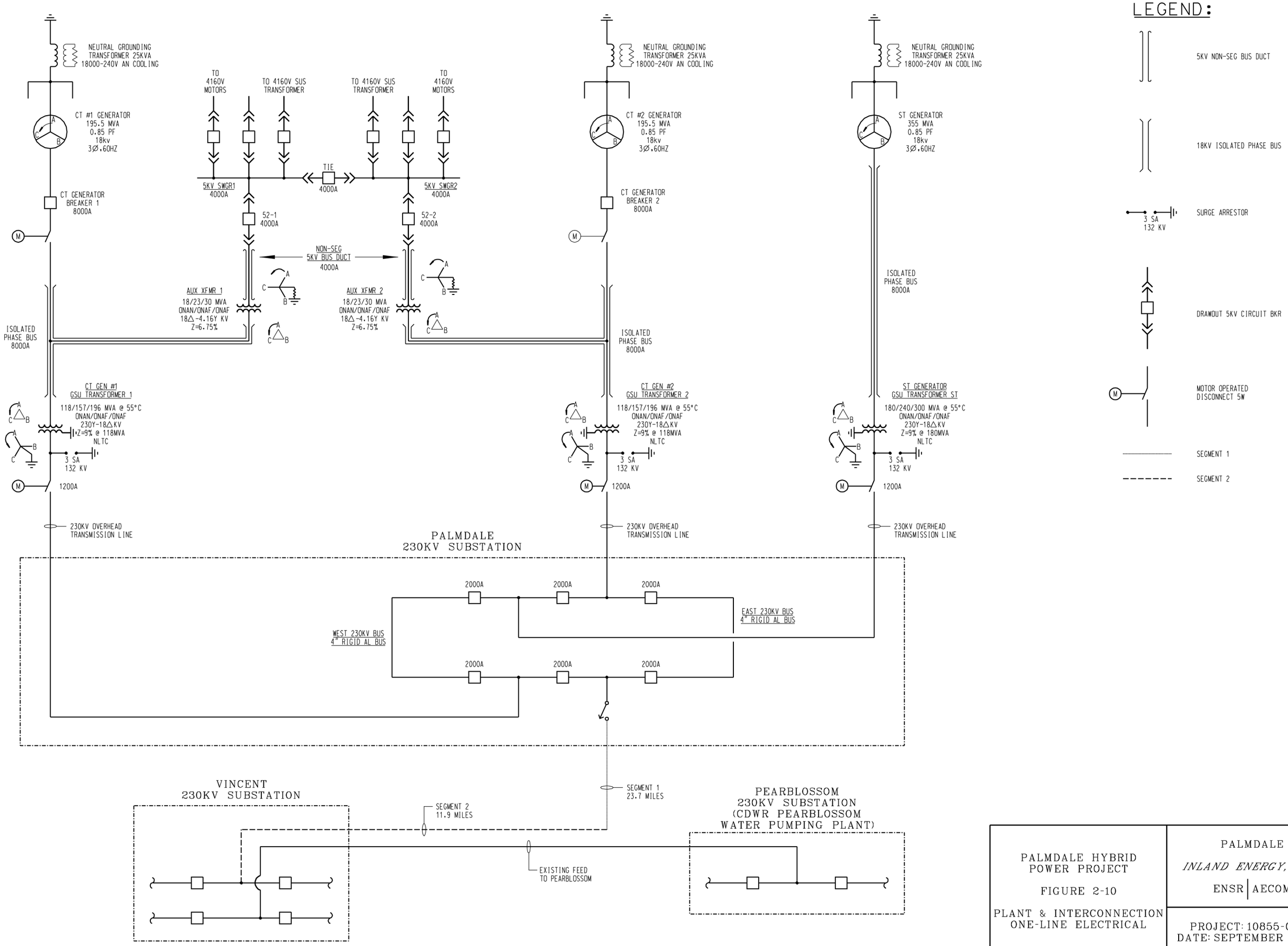
Please see response to 3 above.

5. Please provide transmission pole/tower configurations which would be used to support the generation tie-line from the proposed project to the Vincent Substation.

Please see attached Figure 2-10B.

6. Please clarify the conductor type, current carrying capacity of the conductor, and number of circuits that will be used in Segment 1 (from project site to near the Pearblossom Substation segment) of the generation tie-line.

Please see previous attachments.



PALMDALE HYBRID POWER PROJECT

FIGURE 2-10

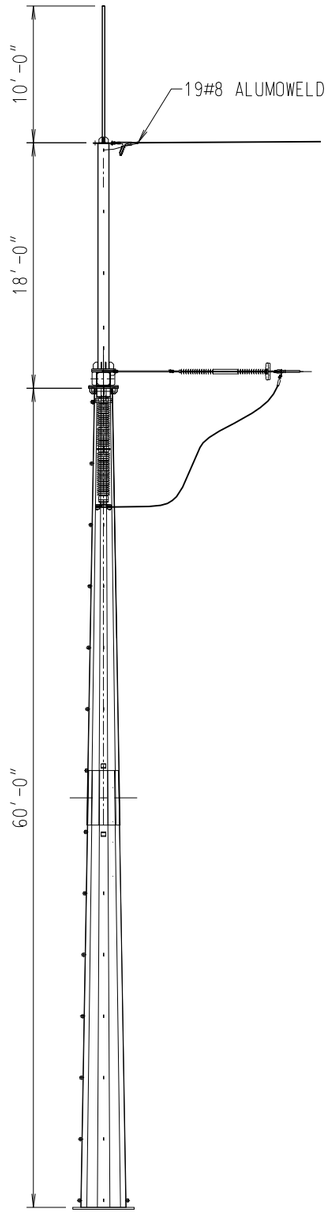
PLANT & INTERCONNECTION ONE-LINE ELECTRICAL

PALMDALE

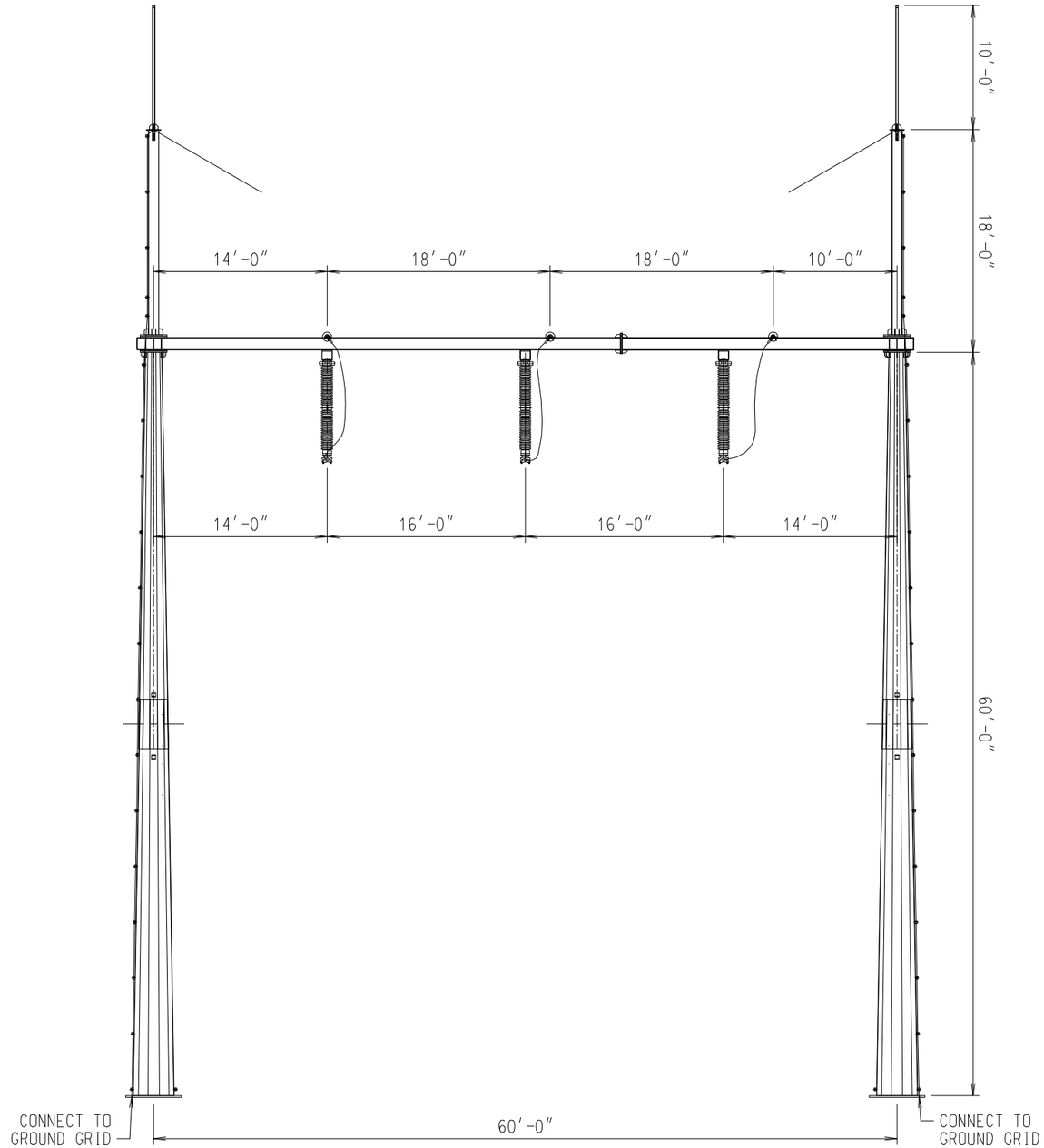
INLAND ENERGY, INC.

ENSR | AECOM

PROJECT: 10855-002
DATE: SEPTEMBER 2008

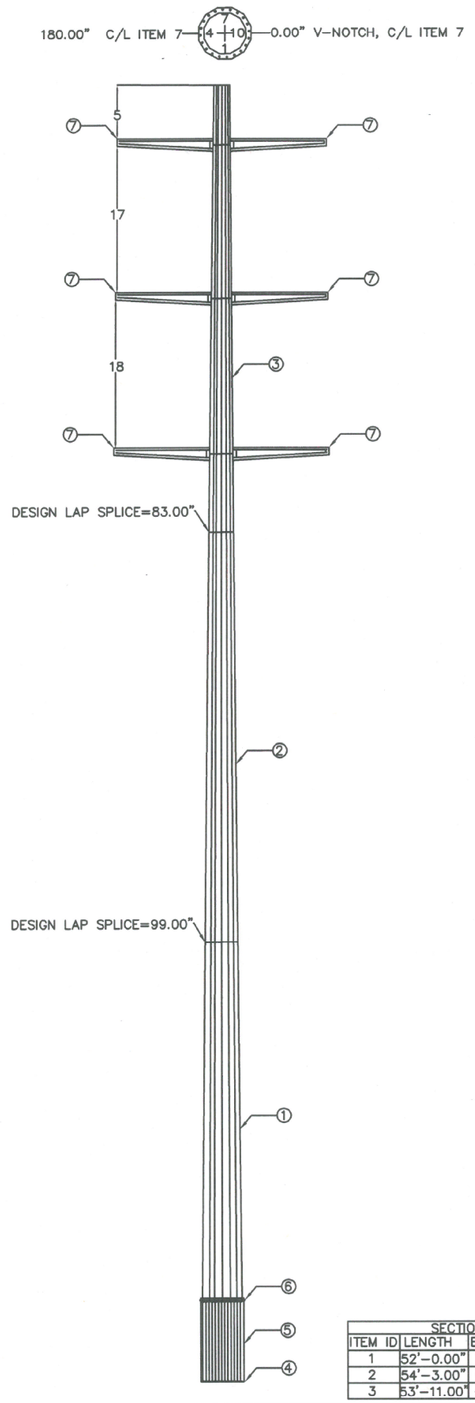


SIDE VIEW



230KV TOWER

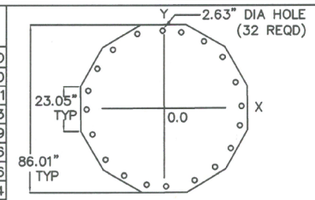
PALMDALE HYBRID POWER PROJECT FIGURE 2-10A PALMDALE SITE SUBSTATION TAKE-OFF STRUCTURE	PALMDALE *INLAND ENERGY, INC.* ENSR | AECOM PROJECT: 10855-002 DATE: SEPTEMBER 2008



ITEM ID	NO REQ'D	FEATURES	WEIGHT (LBS)
1	1	SECTION A	22,704
2	1	SECTION B	15,940
3	1	SECTION C	7,859
	1	ANCHORAGE (SHIPPED ASSEMBLED)	5,928
4	1	BOTTOM CAGE PLATE	
	1	TOP CAGE PLATE (REMOVE BEFOR SETTING POLE)	
5	32	2.25"-4.5 UNC-2A ACHOR BOLT, LENGHT=11.00'	
6	1	BASE PLATE	5,056
7	6	14' COND.	613
		GALVANIZING	806
	198	STEP AND CLIP (VALMONT STANDARD)	1
	72	BOLT 1.25" DIA	
	1	GROUND PLATE	1
	6	VANG	320
	2	VANG	25
	1	POLE CAP	86

HOLE COORDS (INCHES)

X-COORD	Y-COORD
40.00	7.80
39.24	15.31
36.96	22.23
33.26	28.29
28.29	33.26
22.23	36.96
7.80	39.24
0.00	40.00



NOTES:
1. BASE PLATE THICKNESS=3.500"
2. BASE PLATE ALLOWABLE STRESS (KSI)=60
3. VENT AND DRAIN HOLES PROVIDED
4. MAXIMUM BOLT CIRCLE DIAMETER=80.01"
5. MAXIMUM CAGE TEMPLATE DIAMETER=86.01"

BASE PLATE/ANCHORAGE CHARACTERISTICS

NOTES:
1.POLE SHAFT-GOVERING REACTION
MOMENT = 146.485 IN-KIPS
SHEAR = 96.818 #
VERTICAL = 114.275#
2.V-NOTCH INDICATES CENTERLINE OF THE ARMS

SECTION INFORMATION

ITEM ID	LENGTH	BASE 00	TOP 00	THK	MATL
1	52'-0.00"	71.00"	57.95"	0.625"	5-22
2	54'-3.00"	61.02"	47.40"	0.500"	5-22
3	53'-11.00"	49.75"	36.23"	0.313"	5-22

PALMDALE HYBRID
POWER PROJECT

FIGURE 2-10B

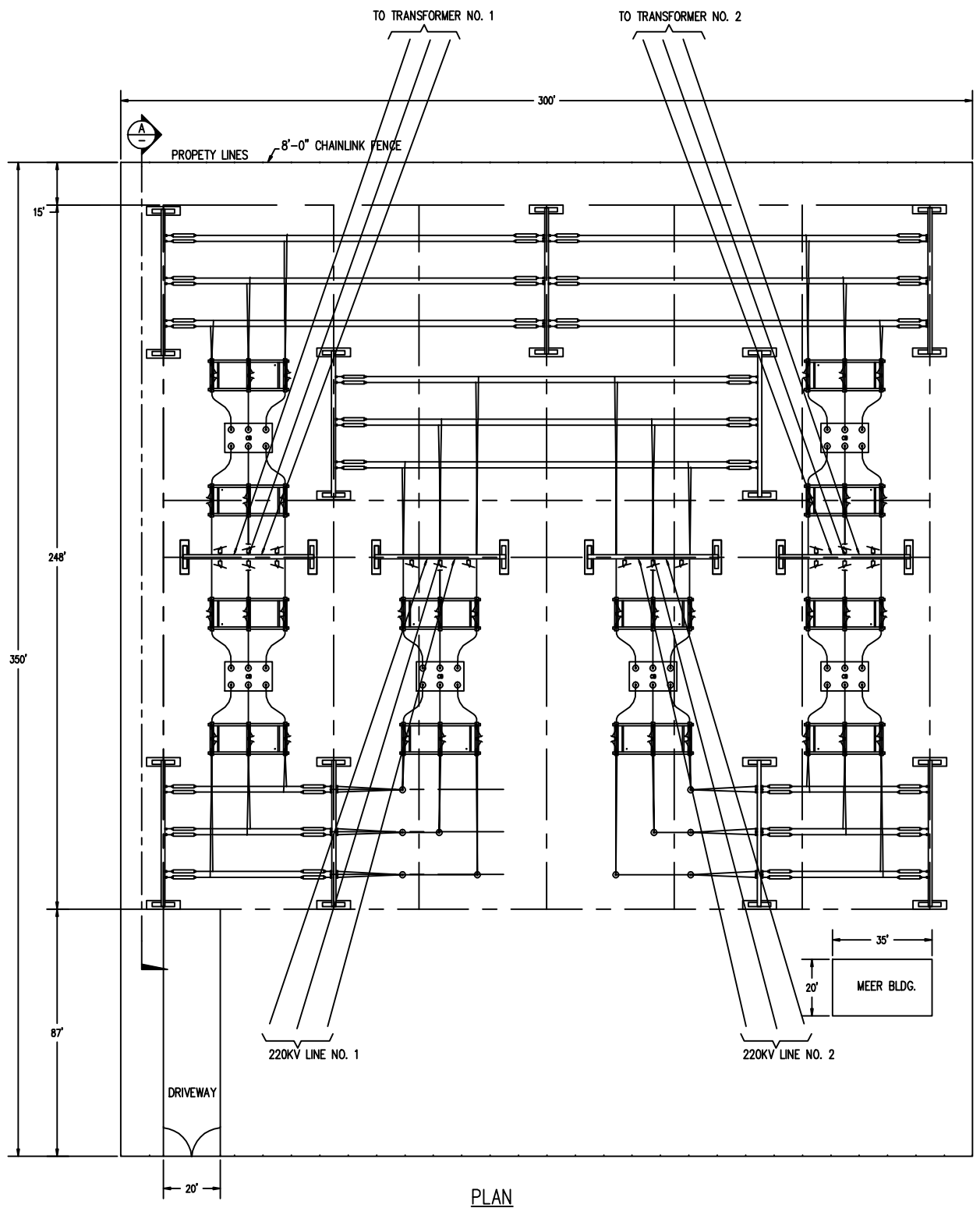
TRANSMISSION LINE TOWER

PALMDALE

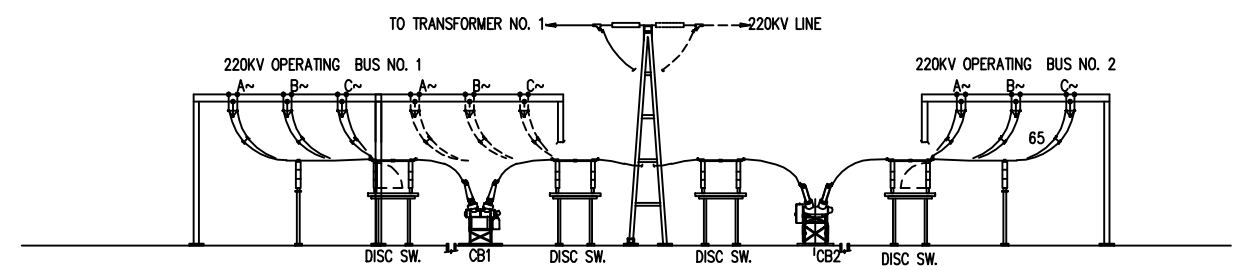
INLAND ENERGY, INC.

ENSR | AECOM

PROJECT: 10855-002
DATE: SEPTEMBER 2008



PLAN



SECTION A
NTS

PALMDALE HYBRID POWER PROJECT FIGURE 2-10C PHPP SWITCHYARD CONCEPT	PALMDALE INLAND ENERGY, INC. ENSR | AECOM
	PROJECT: 10855-002 DATE: SEPTEMBER 2008