

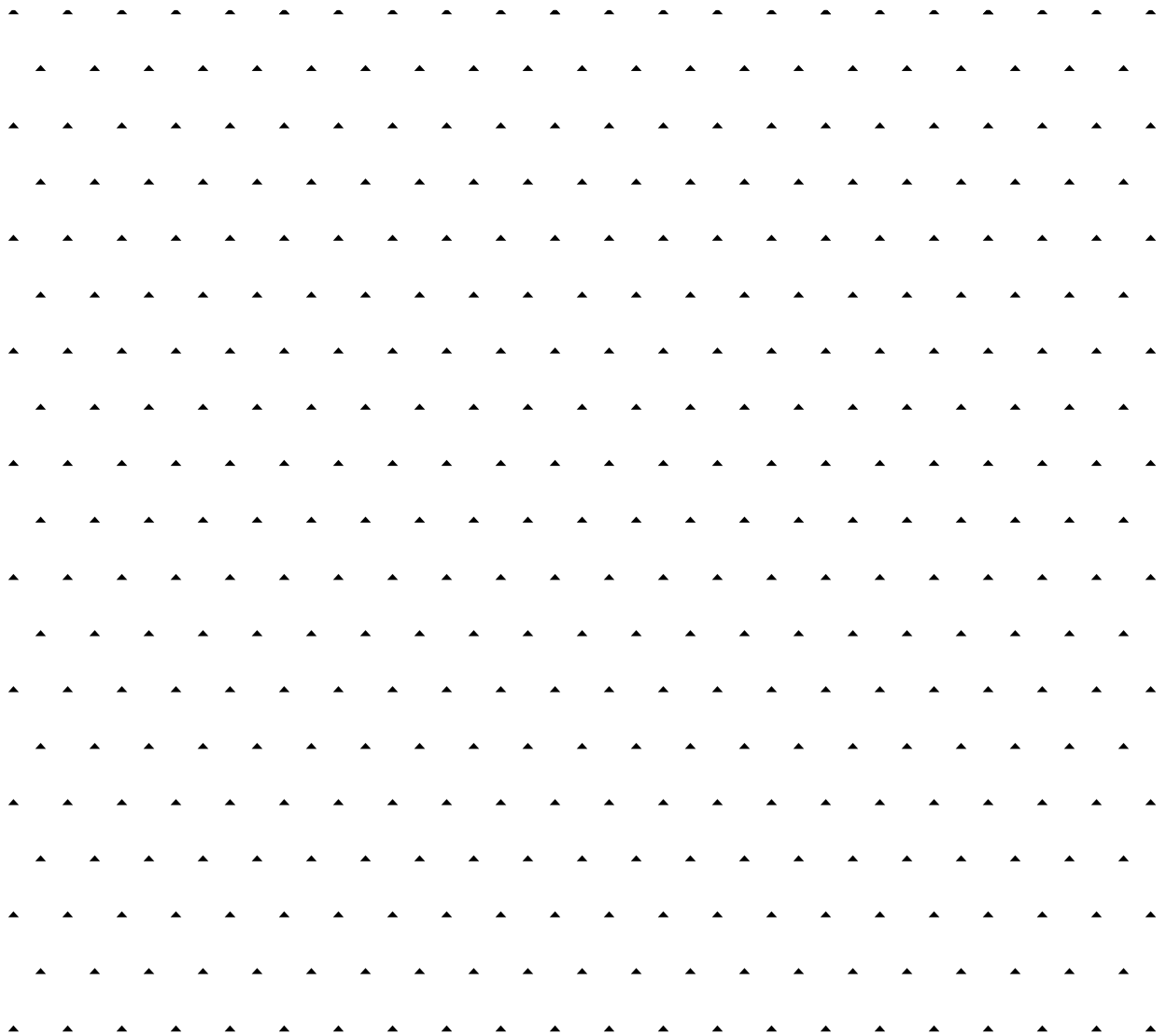
**DOCKETED**

<b>Docket Number:</b>	09-AFC-05C
<b>Project Title:</b>	Abengoa Mojave Compliance
<b>TN #:</b>	230351
<b>Document Title:</b>	Petition to Amend
<b>Description:</b>	Petition requests the construction of a non-occupancy new building/staging area.
<b>Filer:</b>	Keith Winstead
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	10/25/2019 10:02:51 AM
<b>Docketed Date:</b>	10/25/2019

# Mojave Solar Project (09-AFC-5C)

Petition to Amend

COMPLIANCE 14-05-00



Version:1

Review date: 10/08/2019

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## 1 Introduction

### 1.1 Introduction to Petition

Pursuant to Title 20 of the California Code of Regulations, section 1769 (a) of the California Energy Commission (Commission) regulations, Mojave Solar Project (MSP) files this Petition to Amend (Petition) with the California Energy Commission (Commission) to modify the existing Mojave Solar Project (MSP) Final Decision. The Commission certified the License for the MSP on September 8, 2010 and MSP is currently under operation.

This petition requests the construction of a non-occupancy new building/staging area for the new and/or unused 55-gallon barrels, gas cylinders and miscellaneous spare parts for the plant's operation and maintenance. As discussed in this Petition, the new structure will not result in any significant environmental impacts and no modifications to the Conditions of Certification are necessary.

### 1.2 Overview of Proposed Modifications

The project is a solar electric generating facility located on 1,765 acres in unincorporated San Bernardino County, CA.

The project site is accessed by Harper Lake Road, which is located approximately 20 miles west of Barstow along the Highway 58 corridor. The project site is approximately six miles North of where Harper Lake Road intersects with Highway 58.

This Petition does not affect any Project parcel, nor any existing installation within the facility. The new staging area will be located at the South Easternmost lot of the Alpha Power Block Plant, see figure 1 and 2 for area location.



Figure 1. MSP Alpha (North) and Beta (South).

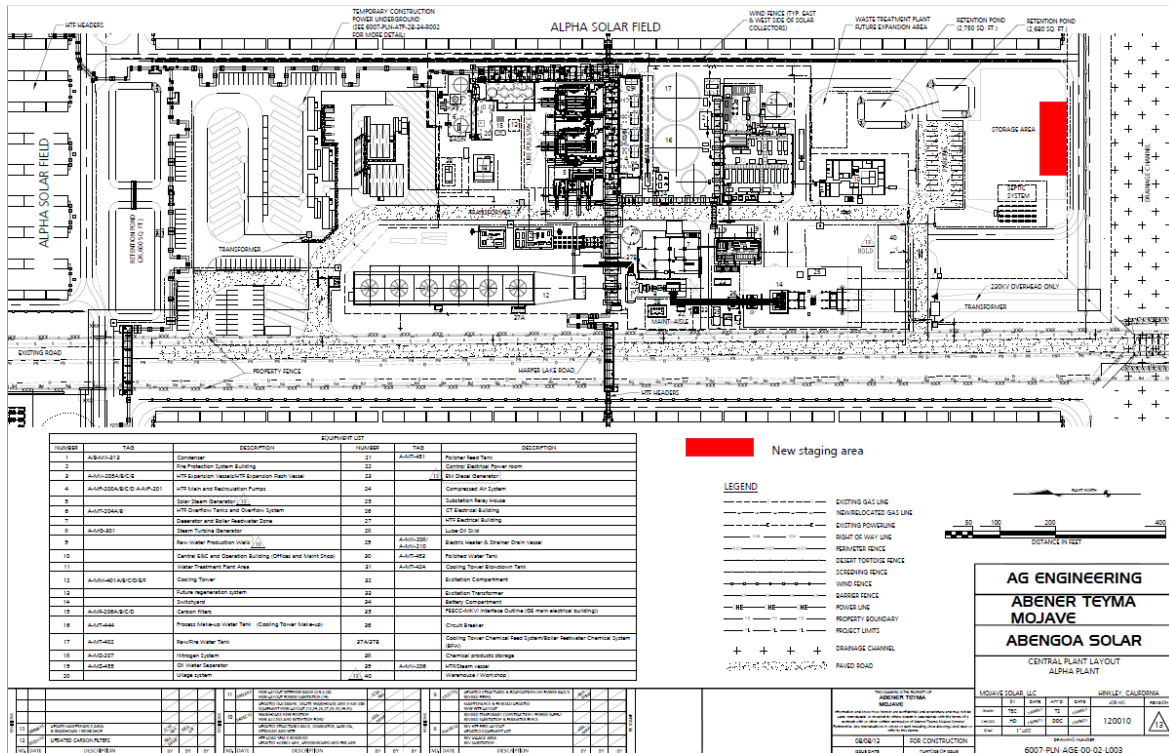


Figure 2. MSP Alpha Power Block Layout.

### 1.3 Description and need for the modifications

The purpose of constructing this new staging area is to facilitate the operation and maintenance of the facility. This new area will allow the plant to store essential spare parts needed for the plant reliability. Due to its remote location, it's necessary to have enough parts and consumables on stock to prevent unnecessary outages due to lack of parts availability

#### 1.3.1 Modifications to Conditions of Certification

MSP does not believe any modifications to the conditions of certification contained in the Final Decision are necessary and therefore this Petition does not propose any.

## 2 IV Engineering Assessment

This section contains an evaluation of the modification proposed in this Petition to determine if it would result in modification of the findings, conclusions or conditions of certification for each technical discipline included within the Engineering Assessment section of the Final Decision.

## **2.1 Facility Design**

The construction of the new staging area would not change any component of the design of the facility nor would result in any operational changes when compared to how the facility is currently operated.

## **3 V Public Health and Safety**

This section contains an evaluation of the modifications proposed in this Petition to determine if they would result in modification to the findings, conclusions or conditions of certification for each technical discipline included within the Public Health and Safety section of the Final Decision.

### **3.1 Green House Gas Emissions, Air Quality and Public Health**

This Petition does not affect any emissions from the MSP and therefore does not result in modification to the findings, conclusions or conditions of certification in the areas of Air Quality, Greenhouse Gases, and Public Health.

### **3.2 Worker Safety and Fire Protection**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Worker Safety and Fire Protection section of the Final Decision.

### **3.3 Hazardous Materials Management**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Hazardous Materials Management section of the Final Decision. Nonetheless, the Hazardous Material Business Plan, the Spill Prevention, Control and Countermeasure Plan (SPCC) and the Process Safety Management Plan (PSMP) will be modified after the construction to properly address this new area, since some hazardous materials will be stored in this location.

### **3.4 Waste Management**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Waste Management section of the Final Decision.

## **4 VI Environmental Assessment**

This section contains an evaluation of the modification proposed in this Petition to determine if it would result in modification to any of the findings, conclusions or conditions of certification for each technical discipline included within the Environmental Assessment section of the Final Decision.

### **4.1 Biological Resources**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Biological Resources section of the Final Decision because it does not propose any changes to operation of the MSP.

#### **4.2 Soil and Water Resources**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Soil and Water Resources section of the Final Decision because it does not modify any construction activity or planned operation of the MSP.

#### **4.3 Cultural Resources**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Cultural Resources section of the Final Decision because it does not modify any construction activity or planned operation of the MSP.

#### **4.4 Geological and Paleontological Resources**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Geological and Paleontological Resources section of the Final Decision because it does not propose any changes to operation of the MSP.

### **5 VII Local Impact Assessment**

This section contains an evaluation of the modifications proposed in this Petition to determine if it would result in modification to any findings, conclusions or conditions of certification for each technical discipline included within the Local Impact Assessment section of the Final Decision

#### **5.1 Land Use**

The modification proposed in this Petition will not affect the findings and conclusions contained in the Land Use section of the Final Decision.

#### **5.2 Traffic and Transportation**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Traffic and Transportation section of the Final Decision because it does not propose any changes to operation of the MSP.

#### **5.3 Socioeconomics and Environmental Justice**

The Petition will not affect the findings and conclusions, nor require any modifications to the existing conditions of certification, contained in the Socioeconomic Resources section of the Final Decision because the modification does not modify construction or operation of the MSP.

#### **5.4 Noise and Vibration**

This Petition does not affect any of the findings, conclusions, or conditions of certification in the Noise and Vibration section of the Final Decision because it does not propose any changes to operation of the MSP.

### **5.5 Visual Resources**

This Petition does not affect any of the findings conclusions, or conditions of certification in the Visual Resources section of the Final Decision because the new staging area will not result in a significant visual impact.

## **6 Potential effects on Property Owners**

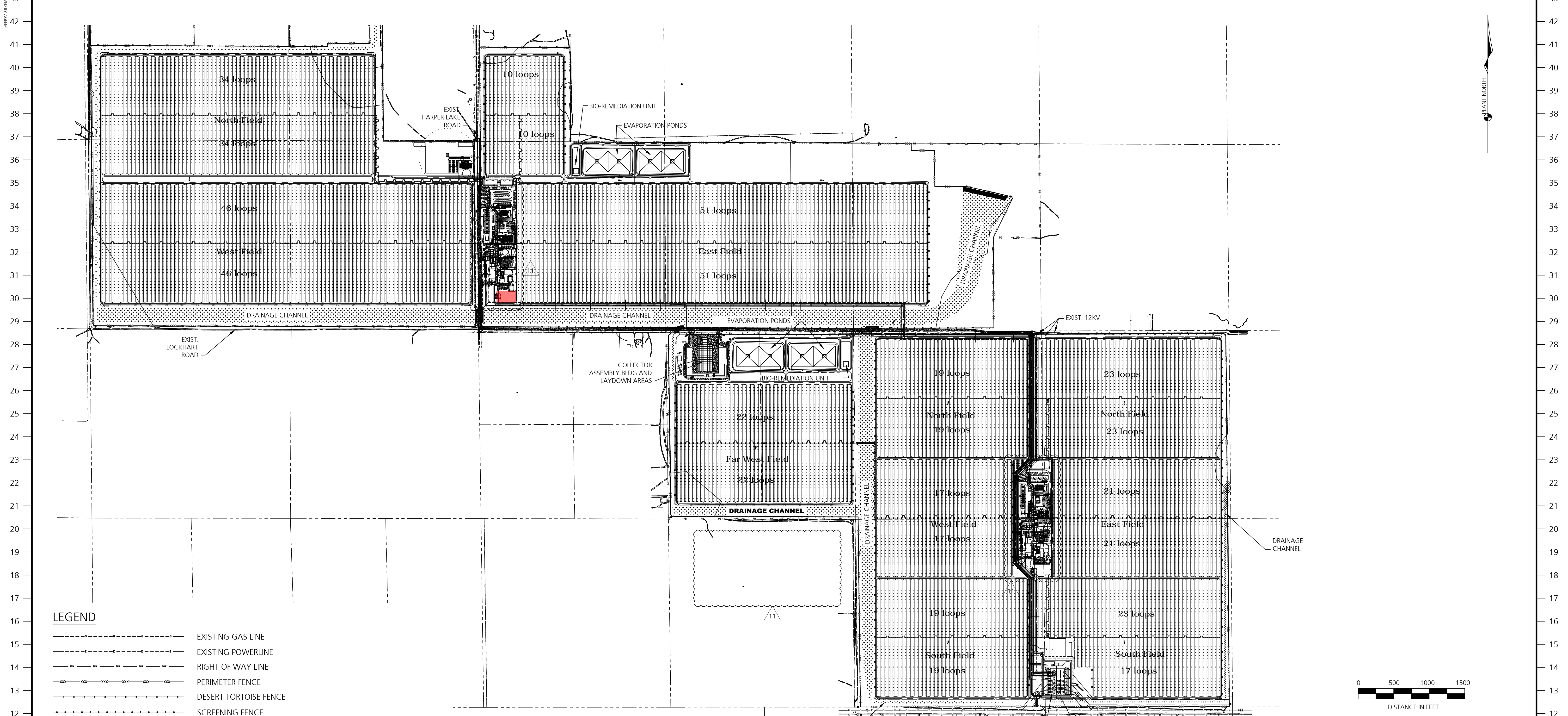
The Commission's Power Plant Siting Regulations require a Petition for Amendment to include 1) a discussion of how the modification affects the public; 2) a list of property owners potentially affected by the modification; and 3) a discussion of the potential effect on nearby property owners, the public and the parties in the application proceedings.

As described in technical area evaluated in Sections 2 through 5 of this Petition, this Petition does not create any significant impacts, and it therefore would not affect the public differently than identified in the Final Decision.



## **7 Annexes:**

### **7.1 Annex 1, plant's general layout and Alpha's Power Block layout.**



**LEGEND**

- EXISTING GAS LINE
- EXISTING POWERLINE
- RIGHT OF WAY LINE
- PERIMETER FENCE
- DESERT TORTOISE FENCE
- SCREENING FENCE
- WIND FENCE
- BARRIER FENCE
- POWER LINE
- PROPERTY BOUNDARY
- PROJECT LIMITS
- DRAINAGE CHANNEL
- PAVED ROAD
- SECTION LINE
- QUARTER SECTION LINE

New staging area

AG ENGINEERING  
ABENER TEYMA  
MOJAVE

ABENGOA SOLAR

SITE PLAN

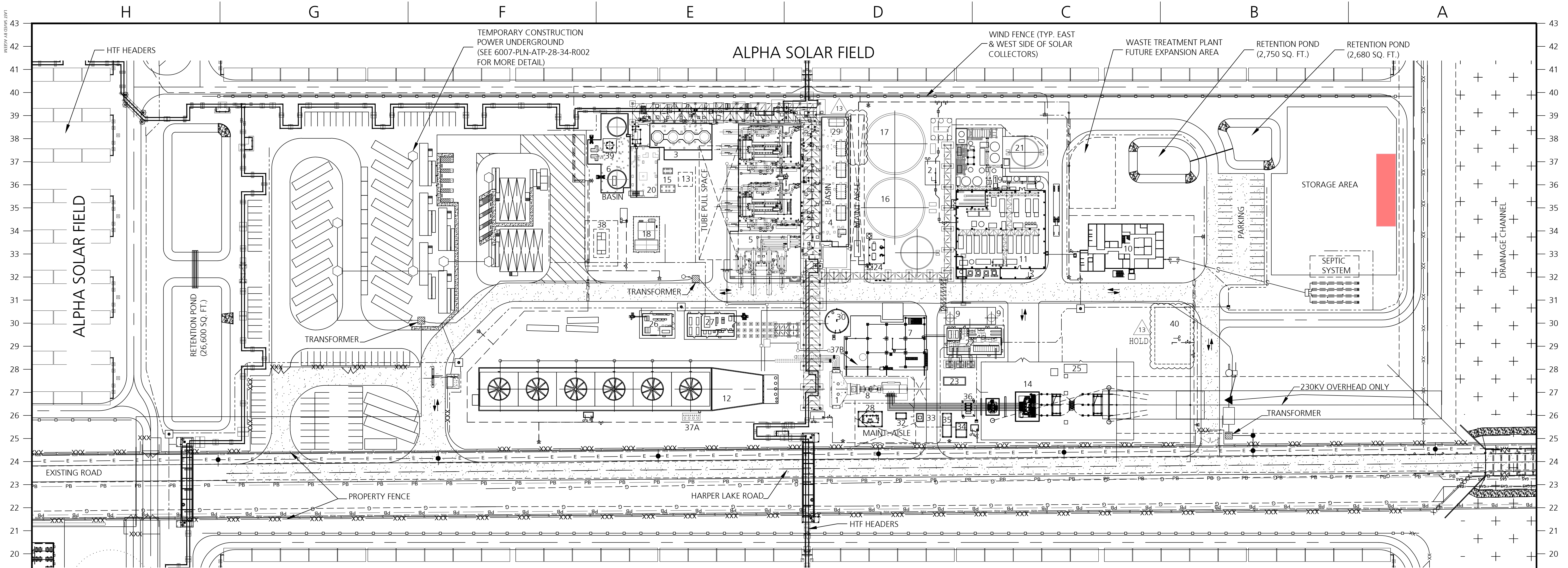
MOJAVE SOLAR, LLC				HINKLEY, CALIFORNIA			
DRAWN	TLF	DATE	15MAR11	APP'D	DDC	DATE	15MAR11
JOB NO.						REVISION	
120010						11	
SCALE		1"=650'		DRAWING NUMBER			
6007-PLN-AGE-00-02-L010							

NO.	DATE	DESCRIPTION	BY	BY	BY	NO.	DATE	DESCRIPTION	BY	BY	BY
11	08/08/13	CHANGE POWER BLOCK	ECM	ABA	MEZ	9	04/22/13	CHANGES IN POWER BLOCK ALPHA & BETA CLOSING IN HTF MAIN PIPE	ABA	MIM	
10	05/21/13	CHANGES IN POWER BLOCK ALPHA & BETA	ABA	MIM	MEZ	8	04/DEC12	UPDATED 230 KV LINE POWER BLOCK STRUCTURE UPDATED	ABA	MIM	
						7	17OCT12	INCLUDED METEOROLOGICAL STATIONS REVISED WATER VALLEY SCE SUBSTATION	ABA	MIM	
						6	31AUG12	UPDATED CENTRAL PLANT LAYOUT AND PIPING INCLUDED STRUCTURES AND FOUNDATIONS ON SOLAR FIELD	ABA	MIM	
						5	13AG012	EXISTING POWERLINE REMOVAL NEW LOCATION ELECTRICAL BUILDINGS, UPDATED CPs LAYOUT	OLS	MIM	
						4	05JUN12	ADDED SECTION LINE TO LEGEND, REV POWERLINE LINE TYPE, REV MAINT ROAD RADII AS NEEDED	MIS	ERD	MEZ
						3	16MAR12	REV MIRROR ASSY PLANT, AND BOTH CENTRAL PLANT LAYOUTS	MIS	ERD	MEZ
						2	10FEB12	REVISED ROAD/GATES/FENCING IN ALPHA NORTH, REMOVED 'PROPOSED' FROM NOTATIONS	MIS	ERD	MEZ
						1	21DEC11	COMBINED SOLAR COLLECTOR ASSEMBLY BLDGS, UPDATED SOLAR FIELD & PONDS	MIS	ERD	MEZ

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08/08/13 FOR CONSTRUCTION

ISSUE DATE PURPOSE OF ISSUE



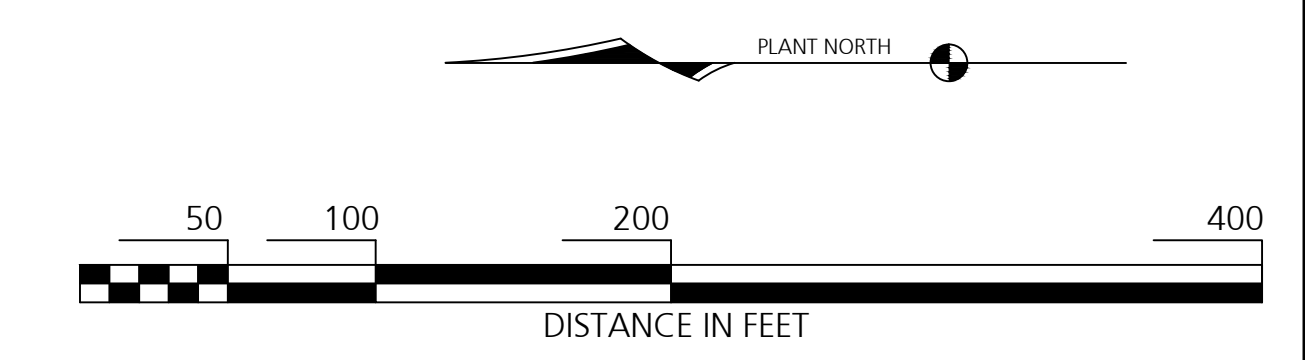
EQUIPMENT LIST

NUMBER	TAG	DESCRIPTION	NUMBER	TAG	DESCRIPTION
1	A/B-MX-313	Condenser	21	A-MT-451	Polisher Feed Tank
2		Fire Protection System Building	22		Control Electrical Power room
3	A-MV-205A/B/C/E	HTF Expansion Vessels/HTF Expansion Flash Vessel	23	13	EM Diesel Generator
4	A-MP-200A/B/C/D A-MP-201	HTF Main and Recirculation Pumps	24		Compressed Air System
5		Solar Steam Generator 13	25		Substation Relay House
6	A-MT-204A/B	HTF Overflow Tanks and Overflow System	26		CT Electrical Building
7		Deaerator and Boiler Feedwater Zone	27		HTF Electrical Building
8	A-MG-301	Steam Turbine Generator	28		Lube Oil Skid
9		Raw Water Production Wells 13	29	A-MX-208/ A-MV-210	Electric Heater & Strainer Drain Vessel
10		Central E&C and Operation Building (Offices and Maint Shop)	30	A-MT-453	Polished Water Tank
11		Water Treatment Plant Area	31	A-MT-424	Cooling Tower Blowdown Tank
12	A-MM-401A/B/C/D/E/F	Cooling Tower	32		Excitation Compartment
13		Future regeneration system	33		Excitation Transformer
14		Switchyard	34		Battery Compartment
15	A-MF-206A/B/C/D	Carbon filters	35		PEECC-MKVI Interface Outline (GE main electrical building)
16	A-MT-444	Process Make-up Water Tank (Cooling Tower Make-up)	36		Circuit Breaker
17	A-MT-402	Raw/Fire Water Tank	37A/37B		Cooling Tower Chemical Feed System/Boiler Feedwater Chemical System (BFW)
18	A-MZ-207	Nitrogen System	38		Chemical products storage
19	A-MZ-455	Oil Water Separator	39	A-MV-206	HTF/Steam vessel
20		Ullage system	13 40		Warehouse / Workshop

New staging area

**LEGEND**

	EXISTING GAS LINE
	NEW/RELOCATED GAS LINE
	EXISTING POWERLINE
	RIGHT OF WAY LINE
	PERIMETER FENCE
	DESERT TORTOISE FENCE
	SCREENING FENCE
	WIND FENCE
	BARRIER FENCE
	POWER LINE
	PROPERTY BOUNDARY
	PROJECT LIMITS
	DRAINAGE CHANNEL
	PAVED ROAD



**AG ENGINEERING**  
**ABENER TEYMA**  
**MOJAVE**  
**ABENGOA SOLAR**

CENTRAL PLANT LAYOUT  
 ALPHA PLANT

NO.	DATE	DESCRIPTION	BY	BY	BY	NO.	DATE	DESCRIPTION	BY	BY	BY
13	08/08/13	UPDATE MAINTENANCE AREA & WAREHOUSE / WORKSHOP	ECM	ABA	MP	11	08/22/13	NEW LAYOUT WTP/NEW BASIN (3, 4, 6, 20) NEW LAYOUT POWER SUBSTATION (14)	ECM	ABA	MP
12	05/22/13	UPDATED CARBON FILTERS	ABA	MMR	MP	10	04/02/12	UPDATED DUCKBANK, DELETE WAREHOUSE AND X-MX-206 EQUIPMENT NEW LAYOUT (13, 24, 26, 27, 29, 33, 34, 35)	ABA	MMR	MP
								WAREHOUSE NEW POSITION NEW ACCESS AND RETENTION POND			
								UPDATED STRUCTURES RACK, DEAREATOR, LUBE OIL, NITROGEN AND WTP			
								HTF LOAD SPACE RESERVED UPDATED +230KV LINE, UNDERGROUND AND FIRE LINE			
						9	17OCT12	UPDATED STRUCTURES & FOUNDATIONS ON POWER BLOCK REVISED PIPING	ABA	MMR	MP
						8	31AUG12	MAINTENANCE & PB ROAD UPDATED NEW WTP LAYOUT	ABA	MMR	MP
								REVISED TEMPORARY CONSTRUCTION / POWER SUPPLY REVISED SUBSTATION & PERIMETER FENCE			
								REV HTF PIPES LAYOUT UPDATED EQUIPMENT LIST			
								REV ULLAGE AREA REV SUBSTATION			

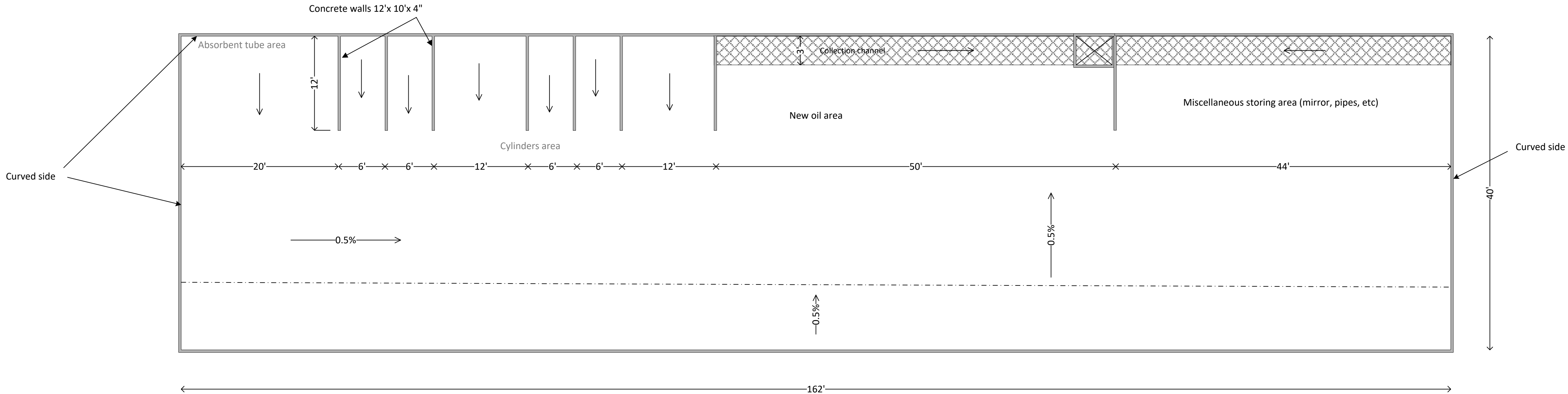
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08/08/13	FOR CONSTRUCTION
ISSUE DATE	PURPOSE OF ISSUE

MOJAVE SOLAR, LLC		HINKLEY, CALIFORNIA	
DRAWN	TEC	DATE	13JAN11
CHECKED	HD	DATE	13JAN11
SCALE	1"=65'	JOB NO.	120010
DRAWING NUMBER		6007-PLN-AGE-00-02-L003	

**7.2 Annex 2, New staging area sketches.**

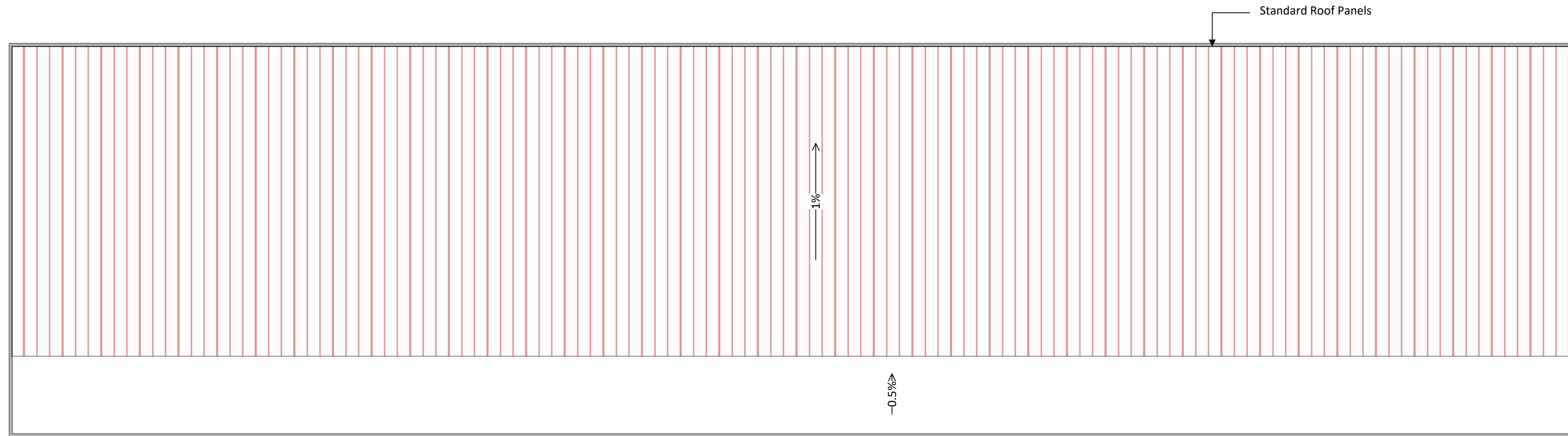


Floor plan

ASIO MSP New staging area

NTS

MJV-SPE-AOM-004-000-0001 ASIO MSP building staging area

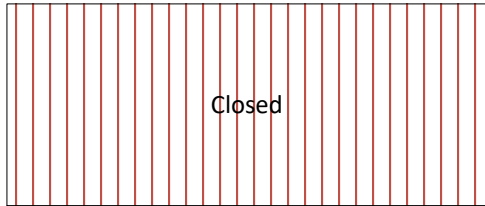


Roof plan

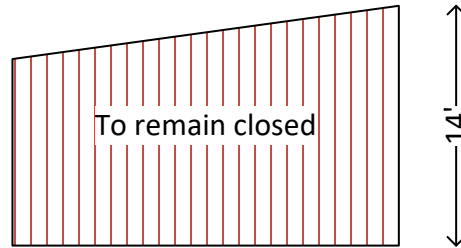
ASIO MSP New staging area

# MJV-SPE-AOM-004-000-0001 ASIO MSP building staging area

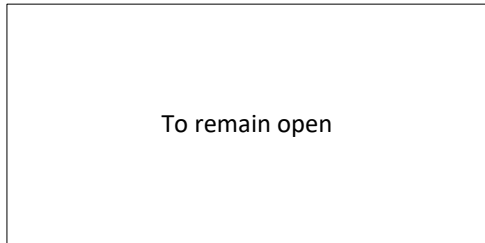
South side



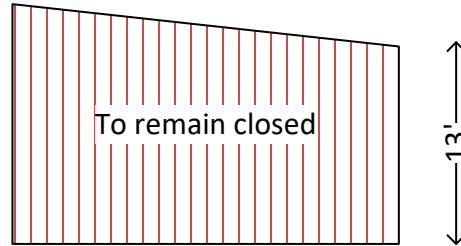
East side



North side



West side



Sheeting details (NTS)