RESOLUTION NO: 16-057

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF EL PASO DE ROBLES TO APPROVE CONDITIONAL USE PERMIT 16-005 SHERWOOD PARK

1860 CRESTON ROAD (APN: 009-311-019)

WHEREAS, Table 21.16.200 of the Zoning Ordinance of the City of El Paso de Robles requires a Conditional Use Permit (CUP) for public utilities facilities in the R-1 zone; and

WHEREAS, the applicant, SunEdison LLC, has filed a Conditional Use Permit (CUP) application proposing to install a photovoltaic system canopy structure within the existing parking lot of Sherwood Park located at 1860 Creston Road; and

WHEREAS, this application is Categorically Exempt from environmental review under the State's Guidelines to Implement the California Environmental Quality Act (CEQA) per Section 21080.35 of the Public Resources Code; and

WHEREAS, a duly noticed public hearing was conducted by the Planning Commission on December 13, 2016, to consider the facts as presented in the staff report prepared for this project, and to accept public testimony regarding this conditional use permit request; and

WHEREAS, based upon the facts and analysis presented in the staff report and public testimony received and subject to the conditions of approval listed below, the Planning Commission finds that the establishment, maintenance and operation for the requested use and building would be consistent with the General Plan and not be detrimental to the health, safety, morals, comfort, convenience and general welfare of the persons residing or working in the neighborhood of such proposed use, or be injurious or detrimental to property and improvements in the neighborhood or to the general welfare of the City.

NOW, THEREFORE, BE IT RESOLVED, that the Planning Commission of the City of El Paso de Robles does hereby approve Conditional Use Permit 16-005 subject to the following:

Section 1 - Findings: based upon the facts and analysis presented in the staff report, public testimony received and subject to the conditions listed below, the Planning Commission makes the following findings:

- 1. The proposed use is consistent with the General Plan and Zoning Ordinance; and
- 2. The proposed use satisfies the applicable provisions of the Zoning Ordinance; and
- 3. The establishment, and subsequent operation or conduct of the use will not, because of the circumstances and conditions applied in the particular case, be detrimental to the health, safety or welfare of the general public or persons residing or working in the neighborhood of the use, or be detrimental or injurious to property or improvements in the vicinity of the use; and
- 4. That the proposed project or use will not be inconsistent with the character of the immediate neighborhood or contrary to its orderly development; and
- 5. That the proposed use or project will not generate a volume of traffic beyond the safe capacity of all roads providing access to the project, either existing or to be improved in conjunction with the project, or beyond the normal traffic volume of the surrounding neighborhood; and

Section 2- Environmental Determination: This projects qualifies for as categorically Exempt from environmental review under the State's Guidelines to Implement the California Environmental Quality Act (CEQA) per Section 21080.35 of the Public Resources Code.

Section 3 - Approval: Conditional Use Permit 16-005 is approved subject to the following:

- This Conditional Use Permit (CUP) authorizes the installation of a photovoltaic system canopy structure within the existing parking lot of Sherwood Park located at 1860 Creston Road as shown in Exhibit B (Development Plans).
- 2. The project shall be constructed so as to substantially conform with the following listed exhibits established by this resolution:

| EXHIBIT | DESCRIPTION |
|---------|--------------------|
| A | Project Conditions |
| В | Development Plans |

PASSED AND ADOPTED THIS 13th day of DECEMBER, 2016 by the following Roll Call Vote:

AYES:

Commissioners Barth, Burgett, Brennan, Donaldson, Agredano, Davis and Chairman

Rollins

NOES:

ABSENT:

ABSTAIN:

BOB ROLLINS, CHAIRMAN

ATTEST:

WARREN FRACE, SECRETARY OF THE PLANNING COMMISSION

Exhibit A Exhibit B

Exhibit A

Conditions of Approval – CUP 16-005

Planning Division Conditions:

- 1. The project shall be constructed so as to substantially conform with Exhibit B (Development Plans).
- Prior to issuance of the building permit, the applicant shall submit for review and approval the selected color sample, as determined by the Community Development Department, for the steel component of the canopy structure.
- 3. All lighting shall be downward directed and shielded to prevent offsite glare in conformance with Section 21.21.040 of the City's Zoning Ordinance.
- 4. Upon completion of the construction of the project, the public property and any improvements thereon shall be restored to a good and safe condition.
- 5. Any condition imposed by the Planning Commission in granting this Conditional Use Permit may be modified or eliminated, or new conditions may be added, provided that the Planning Commission shall first conduct a public hearing in the same manner as required for the granting of the original permit. No such modification shall be made unless the Commission finds that such modification is necessary to protect the public interest and/or neighboring properties, or, in the case of deletion of an existing condition, that such action is necessary to permit reasonable operation and use under the Conditional Use Permit.

Emergency Services Conditions:

- 6. All hazardous electrical transmission lines must be labeled "CAUTION Electrical Hazard".
- 7. Warning labels shall appear on the utility interactive inverter or be applied by the installer near the ground fault indicator at a visible location stating the following:
 - a. Warning Electrical Shock Hazard
- 8. Shut down and/or isolation procedures will be clearly displayed on the main electrical service panel exterior shunt trip device designed to terminate power to all electrical service (solar and domestic) when the main service disconnect is in the off position.
- 9. Main electrical service panel shall be labeled "Solar Power Enhanced"

〒

LLC. THIS INFORMATION IS CONFIDENTIAL AND IT TO BE USED ONLY IN CONNECTION WITH WORK DESCRIBED ONLY IN CONNECTION WITH WORK
DESCRIBED BY SUNDISON, LLC. NO PART IS TO
BE DISCLOSED TO OTHERS WITHOUT WRITTEN
DEDMISSION EDOM SUNEDISON U.C.

NO. REVISION DATE INIT.

1 CITY COMMENTS 11-10-16 DRM

DATE: 07-18-2016 DRAWN BY ENGINEER APPROVED BY

PROJECT PHASE 30% DESIGN

SHEET NO

SHERWOOD PARK

1860 CRESTON ROAD. PASO ROBLES, CA. 93446 30% DESIGN

> Sheet Number

> > G-001

Number A-101

A-201

A-501

F-001

E-002

E-101

E-501

E-502

E-506

F-801

G-002

GENERAL

ARCHITECTURAL

ARCHITECTURAL RENDERINGS

Rev Sheet Title

TITLE SHEET

GENERAL NOTES

MASTER SITE PLAN

ELECTRICAL NOTES

ELECTRICAL SITE PLAN SINGLE-LINE DIAGRAM

SPECIFICATION SHEET

ELECTRICAL CANOPY DETAILS

ELECTRICAL CANOPY DETAILS

EQUIPMENT LABELS AND DETAILS

ACCESSIBILITY DETAILS

ELECTRICAL

MEDIUM VOLTAGE ELECTRICAL NOTES



STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS AND ENGINEERS WHO L PROFESSIONALS AND/OR CONSULTANTS.

THIS DRAWING PAGE OF SPECIFICATIONS / CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND / OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THE STATE. IS HAS BEEN EXAMINED BY ME.FOR:

- COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF THE RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 8138 OF THE EDUCATION CODE AND SECTIONS 4386, 4-344" OF TITLE 24, PART 1 (TITLE 24, PART 1, SECTION 4-317 B).

| Section 1 | American a | 5-11/03 | Security Sec | F |
|-------------------|--------------|---------------------|--|-------------------|
| 19 | | PROJECT LOCATION | | 1 1 2 2 1 T T T E |
| | 1 | | | |
| PROJECT DEVELOPER | SITE CONTACT | SCOPE OF WORK | | |

PROJECT DEVELOPER SITE CONTACT

280.8 kW

N/A

N/A

18,742 SQ. FT.

LATITUDE/LONGITUDE 35 609444°/-120 658611

SUNEDISON 600 CLIPPER DRIVE BELMONT, CA, 94002 (650) 453-5600

PROJECT ENGINEER: ANTHONY FERREIRA AFERREIRA@SUNEDISON.COM 650.255.3480

ARCHITECT [company name] [address] [city] [state] [zip] [phone]

LICENSED ARCHITECT: CA REG#

EXPIRATION: XX/XX/XXXX

PROJECT DESCRIPTION

SYSTEM SIZE (DC)

SYSTEM SIZE (AC)

MODULE TYPE

INVERTER 1

INVERTER 2

VERTER 3

AZIMUTH

TILT

TRANSFORMER 2

PROJECT AREA

THIS DESIGN PACKAGE PROVIDES DRAWINGS FOR THE INSTALLATION OF A 280.8 KW DC RATED PHOTOVOLTAIC SYSTEM AT 1860 CRESTON ROAD. IN PAS ROBLES, CA. ENVIRONMENTAL PLANS ARE NOT PART OF THE SCOPE OF THIS PLAN SET.

(864) SUNEDISON F SERIES F325BZD-3Y, 325W MODULES

(4) SUNGROW SG60KU-M, 60kW INVERTERS

| STRUCTURAL ENGINEER | ELECTRICAL ENGINEER |
|---------------------|---------------------|
| [company name] | [company name] |

[city] [state] [zip] [phone]

[city] [state] [zip]

LICENSED ENGINEER

EXPIRATION: xx/xx/xxxx

GEOTECHNICAL ENGR.

[city] [state] [zip] [phone] [city] [state] [zip] [phone] PROJECT ENGINEER PROJECT ENGINEER

CONTRACTOR

[company name] [city] [state] [zip] [phone]

CONTRACTOR'S LICENSE

GENERAL NOTE

ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS.

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVAL BY DIVISION OF THE STATE ARCHITECT (DSA) AS REQUIRED BY SECTION 4-338,

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINOUS INSPECTION OF WORK, DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR: CLASS 2.

ADDITIONAL DOCUMENTS

| | APPLICABLE CODES AND STANDARDS |
|----|---|
| | CALIFORNIA BUILDING CODE (CBC) 2013 EDITION |
| | CALIFORNIA ENERGY CODE 2013 |
| so | CALIFORNIA FIRE CODE 2013 EDITION |
| S | CALIFORNIA ENERGY CODE 2013 EDITION CALIFORNIA MECHANICAL CODE 2013 EDITION |
| | CALIFORNIA MECHANICAL CODE 2013 EDITION CALIFORNIA PI LIMBING CODE 2013 EDITION |
| | CALIFORNIA ELECTRICAL CODE 2013 EDITION |
| | CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R |
| | (2012 INTERNATIONAL FIRE CODE AND 2010 CALIFORNIA AMENDMENTS) |
| | 2013 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24, C.C.R. |
| | TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS |
| | PARTIAL LIST OF APPLICABLE STANDARDS: |
| | NFPA 13 AUTOMATIC SPRINKLERS SYSTEM 2010 EDITION |
| - | NEPA 14 STANDPIPE SYSTEM 2007 EDITION |
| | NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2002 EDITION |
| | NFPA 17A WET CHEMICAL SYSTEMS 2002 EDITION |
| | NFPA 20 STATIONARY PUMPS 2007 EDITION |
| | NFPA 24 PRIVATE FIRE MAINS 2010 EDITION |
| - | NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2008 EDITION |
| _ | REFERENCE CODE SECTION FOR NFPA STANDARDS |
| | THIS PROJECT SHOULD COMPLY WITH THE 2013 EDITION OF THE |
| | CALIFORNIA BUILDING CODE (TITLE 24) WHICH ADOPTS THE 2012 IBC |
| _ | 2. CALIFORNIA HEALTH AND SAFETY CODE |
| | 3. 2012 CFC ARTICLES INCLUDING BUT NOT LIMITED TO: ARTICLES 74,76,79 |
| | AND 80, 2010 CBC CHAPTERS 3,5, AND 12, NFPA 45 |
| | STATE REVIEW AND APPROVAL OF PROJECT CODE COMPLIANCE |
| | WILL BE DETERMINED BY: DIVISION OF STATE ARCHITECT |
| - | THE DE DETERMINED DIT DIVIDION OF STATE ANOTHER |
| | |

- SUNEDISON PV MODULE INSTALLATION MANUAL
- STRUCTURAL CALCULATIONS

GEOTECH REPORT

CANOPY DSA TEMPLATE RELEASE 1.2

Exhibit B - Development Plans SunEdison **ABBREVIATIONS** NUESTER

JANSTON EDIT CURRENT

JUNCTION BOX

LOUNTIS

LOCATION

MECHANICAL

METERMAL ELECTRIC CODE

NECATIVE

MODILIE

METERMAL ELECTRIC CODE

NECATIVE

NORTH - SOLUTH

OBSTRUCTION

PHASE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPONE

PROPERTY LINE

MERCONINGETION

POSITIVE

MECHANICAL

MECH NUMBER
DIAMETER
DEGREES
PLUS OR MINUS
NEGATIVE CHARGE
POSITIVE CHARGE
TOTAL QUANTITY
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VERIFY IN FELL
MAXMAMIN POWER POINT VOLTAGE
OPEN GROUPT VOLTAGE
WATTS, WIRE
WEATHERPROOF PARK INTENTIONALLY CITY OF PASO ROBLES 1860 CRESTON ROAD, PASO ROBLES,CA,93446 **LEFT** ERWOOD **BLANK** INSUL GENERAL PLAN SYMBOLS 〒 PROJECT NUMBER SCALE: 1" = 20'-0" [CA-15-1044] REVISION CLOUD PLAN SCALE SHEET TITLE: **GENERAL NOTES** 1 A-101 SHEET SIZE: SECTION CUT REFERENCE CIRCLE CALL-OUT GENERAL ARCH "D" 24" X 36" (610 x 914) THIS DRAWING IS THE PROPERTY OF SUNEDISON LLC. THIS INFORMATION IS CONFIDENTIAL AND IS TO BE USED ONLY IN CONNECTION WITH WORK DESCRIBED BY SUNEDISON, LLC. NO PART IS TO BE DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION FROM SUNEDISON, LLC. $\langle A \rangle$ A-101 KEYNOTE GENERAL NORTH ARROW FI EVATION VIEW REFERENCE A)-A-101 SHEET ___SHEET GRID COLUMN CALLOUT DATE: DRAWN BY ENGINEER APPROVED BY PROJECT PHASE: 30% DESIGN

CANOPY DSA TEMPLATE RELEASE 1.2

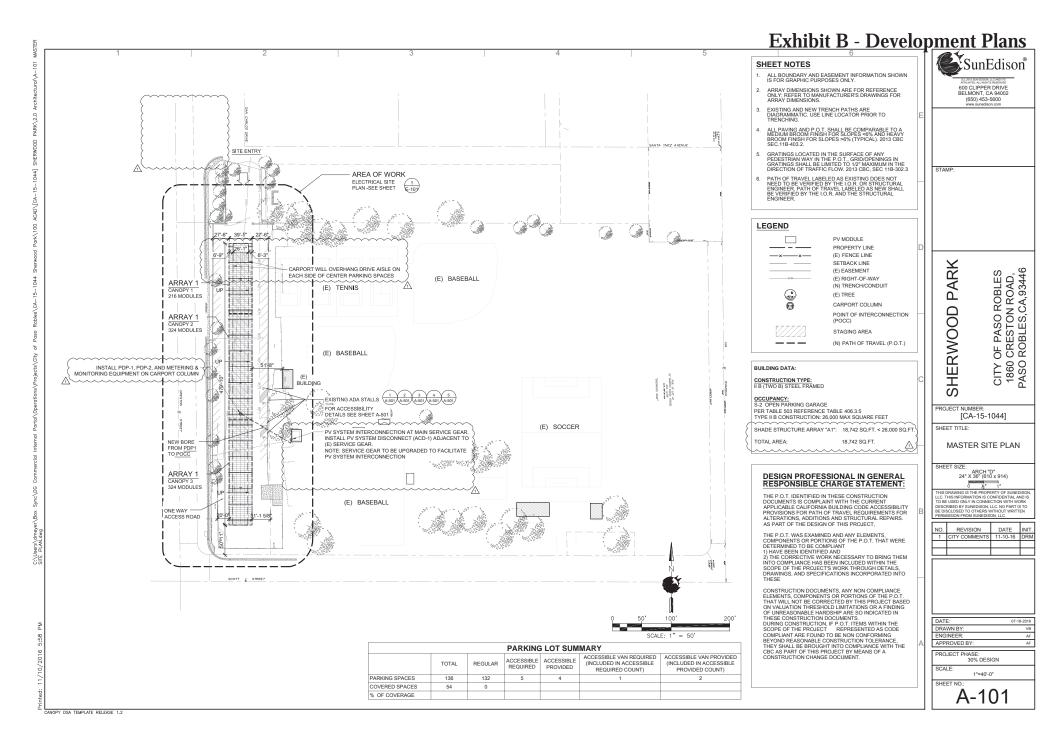
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09-29-2016

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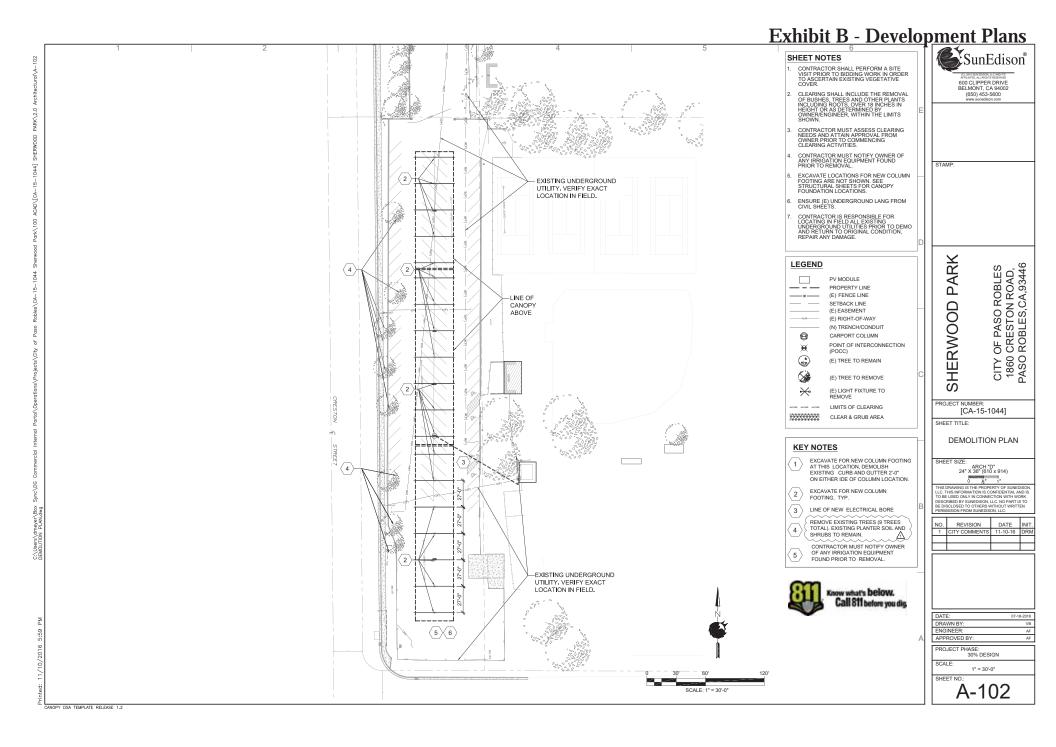


Exhibit B - Development Plans

SunEdison

(C), 2015 SUNEDISON, LLC AND ITS AFFLIATES, ALL RIGHTS RESERVED 600 CLIPPER DRIVE BELMONT, CA 94002 (650) 453-5600 www.sunedison.com

SHERWOOD PARK

CITY OF PASO ROBLES 1860 CRESTON ROAD, PASO ROBLES,CA,93446

PROJECT NUMBER [CA-15-1044]

SHEET TITLE:

ARCHITECTURAL RENDERINGS

ARCH "D" 24" X 36" (610 x 914)

THIS DRAWING IS THE PROPERTY OF SUNEDISON LLC. THIS INFORMATION IS CONFIDENTIAL AND IS TO BE USED ONLY IN CONNECTION WITH WORK DESCRIBED BY SUNEDISON, LLC. NO PART IS TO BE DISCLOSED TO OTHERS WITHOUT WRITTEN PERMISSION FROM SUNEDISON, LLC.

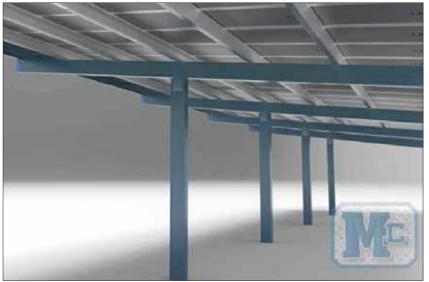
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DATE: DRAWN BY ENGINEER: APPROVED BY:

PROJECT PHASE: 30% DESIGN SCALE:

SHEET NO.:

A-201







4 ISOMETRIC VIEW
SCALE: NTS

SHEET NOTES

RENDERINGS ARE STRUCTURALLY ACCURATE BUT DO NOT REFLECT FINAL FINISH OF THE STRUCTURE.

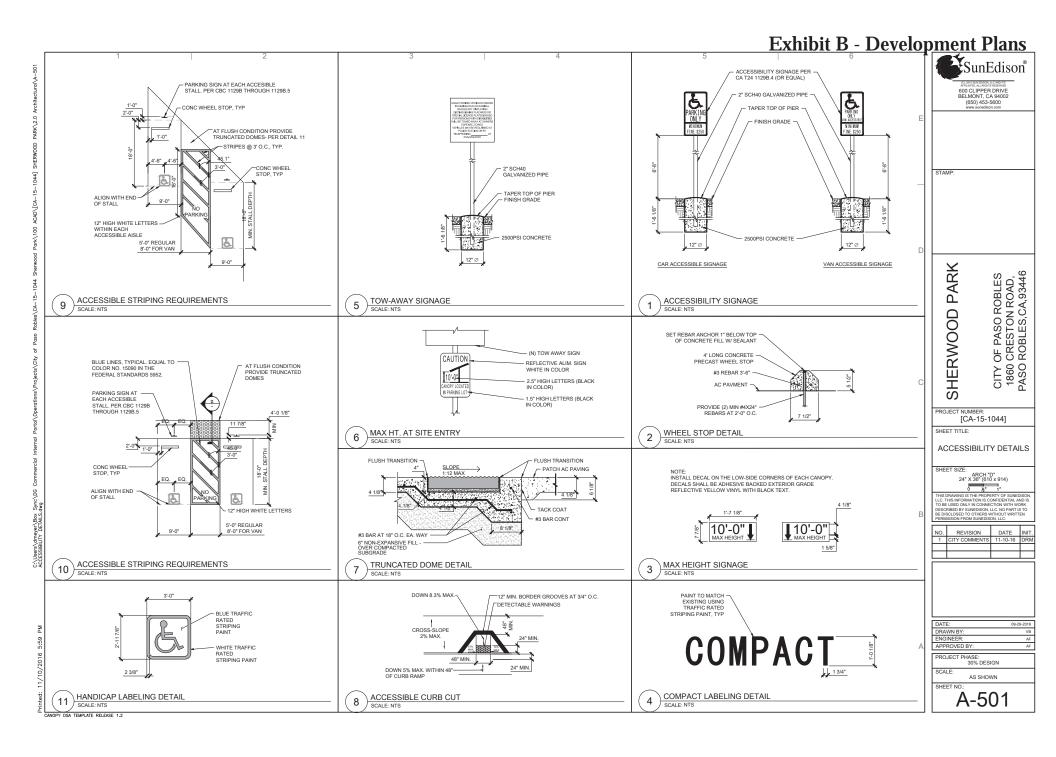


1 UNDER CANOPY
A-201 SCALE: NTS

3 ISOMETRIC VIEW
SCALE: NTS

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PY DSA TEMPLATE RELEASE 1.2

ELECTRICAL NOTES FOR NEW PHOTOVOLTAIC THIS PROPOSED SOLAR ELECTRIC SYSTEM IS INTENDED TO OPERATE IN PARALLEL WITH POWER RECEIVED FROM THE UTILITY SERVICE PROVIDER.

THE INVERTER FOR THE PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE IDENTIFIED FOR USE IN SOLAR PHOTOVOLTAIC SYSTEMS. ALL EQUIPMENT SHALL BE UL APPROVED.

THIS SYSTEM IS INTENDED TO CONNECT TO THE EXISTING FACILITY POWER SYSTEM AT A SINGLE POINT, POINT OF COMMON COUPLING (POCC). THIS CONNECTION SHALL BE IN COMPLIANCE WITH THE NEC ARTICLE 705.12 "POINT OF CONNECTION."

ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION FOR TESTING AND

ALL DISCONNECTING COMBINERS SHALL BE SECURED FROM UNAUTHORIZED/UNQUALIFIED PERSONNEL BY LOCK OR LOCATION

ALL DISCONNECTING COMBINERS. PULL/SPLICE BOXES. AND ENCLOSURES SHALL BE LISTED FOR ITS

EQUIPMENT SHALL BE INSTALLED IN A SECURE AREA.

CONDUITS AND CABLES SHALL NOT ENTER THE TOP OR SIDES OF ANY OUTDOOR ENCLOSURE ABOVE ELECTRIC/ELECTRONIC EQUIPMENT WITHOUT WRITTEN APPROVAL FROM SUNEDISON PROJECT ENGINEER.

WIRING AND WIRING METHODS:

ALL WIRING METHODS AND INSTALLATION PRACTICES SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, .OCAL STATE CODES, AND OTHER APPLICABLE LOCAL CODES.

EXPOSED PLASMAS MICHAEL WHINE WILL BE PLYINGE, 6YO LOCKEY, WIT TANTO JANLUP RESIST MY. ALL EXPOSED CARES, SUIO AS MODICAL ELGOS SHALL BE EXCEPTED WITH INCOMPANIOL OF OTHER APPROVED SHALLGHIF RESISTANT MEMORA. THE USE OF PLASTIC 2P TIES IN DIT AN APPROVED METHOD TO SUPPORT OR ATTRICT WHERE TO A STRUCTURE. THESE ARE GOVER PERMITTED FOR SUPPER EMETHOD TO SUPPORT OR THAT WHENE TO A STRUCTURE. THESE ARE GOVER PERMITTED FOR SUPPER EMETHOD. SUPPORT OF THE SUPPER HAVE A STRUCTURE OF THE SUPPORT OF THE SU

WIRE COLOR SPECIFICATIONS:

| AC WIRE COLOR CHART | | | |
|-------------------------------|-------------------------------|-----------------|--|
| | AC CONDUCTORS | | |
| | 277 / 480 Volt 120 / 208 Volt | | |
| Phase A | BROWN | BLACK | |
| Phase B | ORANGE | RED | |
| Phase C | YELLOW | BLUE | |
| Grounded Conductor | GRAY or WHITE | WHITE | |
| Grounding Conductor | GREEN or BARE | GREEN or BARE | |
| Grounding Electrode Conductor | GREEN W/ ORANGE | GREEN W/ ORANGE | |

| DC WIRE COLOR CHART | | | |
|-------------------------------|---------------|---------------|---------------|
| SYSTEM TYPE | | DC CONDUCTORS | |
| STSIEM ITPE | POSITIVE (+) | NEGATIVE (-) | GROUND |
| Ungrounded (Floating Systems) | RED | BLACK | |
| Positive Grounded Systems | WHITE or GRAY | BLACK | GREEN or BARE |
| Negative Grounded Systems | RED | WHITE or GRAY | |

CONTRACTOR IS REQUIRED TO SUBMIT WIRE SPECIFICATIONS (INSULATION TYPE, COLOR, & CONDUCTOR MATERIAL) TO SUNEDISON FOR APPROVAL PRIOR TO PROCUREMENT/INSTALLATION

PV STRING HOME RUNS SHALL BE LABELED ON BOTH ENDS, AT ARRAY AND AT COMBINER. COMBINER OUTPUT CONDUCTORS SHALL BE LABELED AT BOTH ENDS, AT COMBINER AND AT DISCONNECT.

LIQUID TIGHT FLEXIBLE METAL CONDUIT IS GENERALLY SUITABLE FOR INSTALLATION IN WET AND DR LOCATIONS. SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE 12 INCHES FROM BO. BOX, CABINETS, OR CONDUIT FITTING) AND NO MORE THAN 54 INCHES APART (NEC 350.30).

THE PHOTOVOLTAIC SOURCE CIRCUITS AND PHOTOVOLTAIC OUTPUT CIRCUITS OF THIS PROPOSE SOLAR SYSTEM SHALL NOT BE CONTAINED IN THE SAME RACEWAY, CABLE TRAY, CABLE, OUTLET BOX, JUNCTION BOX, OR SIMILAR FITTING AS FEEDERS OR BRANCH CIRCUITS OF OTHER SYSTEMS UNLESS THE CONDUCTORS OF THE DIFFERENT SYSTEMS ARE SEPARATED BY A PARTITION OR ARE CONNECTED.

UNLESS MARKED AS UV RESISTANT, PVC IS NOT APPROVED FOR INSTALLATION IN LOCATIONS SUBJECTED TO DIRECT SUNLIGHT AND SHALL NOT BE EMPLOYED IN ANY SUCH LOCATION.

LONG STRAIGHT EXPOSED METAL CONDUIT (RMC, GRC, EMT) RUNS, 100 FEET OR MORE, SHALL HAVE EXPANSION FITTINGS INSTALLED PER NEC 300.7(B). EXPANSION FITTINGS SHALL ALSO BE USED WHEN CONDUIT SPANS AN EXPANSION JOINT.

FUSES AND WIRES SUBJECT TO TRANSFORMER INRUSH CURRENT SHALL BE SIZED ACCORDINGLY.

ALL DC MATERIALS SHALL BE ULLISTED FOR 1000V DC.

WHEN TRANSITIONING UNDERGROUND PVC CONDUIT TO ABOVE GROUND RMC, IMC OR EMT CONDUIT, USE 20 MLI PIFE WRAP TAPE HALF-LAPPED FROMS "PAST TRANSITION POINT ON PVC TO 6" ABOVE GROUND ON METALLIC CONDUIT. AN EXPANSION JOINT SHALL BE USED IN THE TRANSITION TO ABOVE GROUND CONDUIT WHERE REQUIRED BY NEC 300.5(j).

ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ENCLOSURE INTERIORS, TOP SURFACES OF ENCLOSURE, ROOF SURFACE, AND ANY ADDITIONAL AREAS WHERE OXIDATION OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUIT OR OTHER DAMAGE.

CONDUITS LONGER THAN 200 FT WITH NEGATIVE SLOPE TOWARD ELECTRICAL EQUIPMENT SHALL HAVE A PULL BOX OR VAULT ADJACENT TO THE ENTRY POINT INTO THE ELECTRICAL EQUIPMENT.

WHEN TRANSITIONING FROM FREE AIR TO CONDUCTORS IN CONDUIT A LISTED FITTING SHALL BE USED TO PREVENT THE ENTRY OF MOISTURE.

14. L AND T CONDUIT BODIES SHALL NOT BE USED.

15. ALL AC AND DC COPPER TERMINATION(S). SHALL HAVE KOPR SHIFLD OR FOLIVALENT APPLIED.

MEGGER TESTING SHALL BE PREFORMED AT 1000 VDC FOR ALL AC CIRCUITS 480 V OR BELOW AND DC CIRCUITS 600 V OR BELOW. MEGGER TESTING WILL BE PREFORMED AT 1500 VDC FOR DC CIRCUITS IN 1000 VDC SYSTEMS. A MINIMUM OF 250 MEGACHMS RESISTANCE TO GROUND IS REQUIRED. DO NOT MEGGER THE SOLAR MICOLUES AS DOMAGE WOULD LIKELY RESULT.

. BENDS SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF RACEWAY PER TABLE 2 OF THE NEC.

IS. SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH THE REQUIREMENTS OF NEC

CONNECTORS TO BE TORQUED PER DEVICE LISTING, OR MANUFACTURERS RECOMMENDATIONS. CONNECTORS ARE TO BE MARKED WITH PERMANENT MARKING PAINT, AFTER TORQUEING.

20. ALL BARE CU WIRES SHALL BE INSTALLED TO NOT COME INTO CONTACT WITH DISSIMILAR METALS

21. SPLICES/CONNECTORS SHALL BE INSULATED AND WILL REQUIRE PROJECT ENGINEER APPROVAL. UL LISTED ELECTRICAL TAPE ALONE IS NOT SUITABLE AS THE ONLY INSULATION IMPANS. FOLLOW MANUFACTURERS INSTRUCTIONS FOR INSTALLATION, AND APPLICATION OF INSULATION FOR PODUCT.

22. ALL LV AC WIRING SHALL BE TYPE THWN-2 RATED AT 90°C DEGREES. XHHW-2 IS AN APPROVED ALTERNATE. THIS NOTE WILL BE SUPERCEDED BY ANY INVERTER SPECIFICATIONS REQUIRING LV AC WIRE TO MEET HIGHER VOLTAGE OR INSULATION STANDARDS.

USE MEYERS(OR APPROVED EQUIPMENT) HUB LISTED TO PROVIDE MOISTURE PROTECTION FOR CONDUIT ENTRANCES IN ALL APPLICABLE LOCATIONS AS REQUIRED BY NEC 314.15.

24. PROTECT WIRE FROM SHARP EDGES WITH UV RATED SPIRAL WRAP, EDGE-GUARD, OR SPLIT LOOM.

25. MODULE LEAD CONNECTORS SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND PROTECTED FROM EXPOSURE TO DIRECT SUNLIGHT OR RAIN. THEY SHALL NOT BE INSTALLED WITHIN TUBING, COMDUIT OR MODULE GAPS.

28. THE STRING SOURCE CIRCUIT WIRING NEEDS TO BE SUPPORTED ADEQUATELY IN LENGTHS NOT TO EXCEED 24*. THE MODULE TO MODULE INTERCONNECTION LEADS NEED TO BE SUPPORTED AT A MINIMUM OF 12* FROM THE J-BOX AND THE MODULE TO MODULE CONNECTION POINT.

27. POLARIS TAPS AND BLOCKS ARE NOT TO BE USED TO CONNECT CURRENT CARRYING CONDUCTORS

28. MODILE TO SOURCE CIRCUIT CONNECTORS MUST BE OF THE SAME MAKE AND MODEL AS THE MODILE TO MODILE CONNECTORS. THE CONNECTION TO SOURCE CIRCUITS MUST BE PER THE MODILE MANUFACTURER AND CONNECTOR MANUFACTURER INSTRUCTIONS. CONTRACTOR TO VERIFY THAT THE STRING CONDUCTOR DIAMETER IS COMPATIBLE WITH THE STRING CIRCUIT HOME FAIN CONNECTORS

HOMERUN STRING WIRING TO BE SUPPORTED IN INTERVALS NOT TO EXCEED 3' AND WITHIN 12" OF ALL TERMINATIONS.

PV WIRE HARNESSES SHALL NOT BE USED. CONDUCTORS SHALL BE PARALLELED AT COMBINER BOXES OR STRING INVERTERS ONLY.

31. ALL EMT SHALL USE LISTED AND APPROVED RAIN TIGHT FITTINGS WHEN INSTALLED OUTDOORS OR IN A

32. OUTDOOR ELECTRICAL CONNECTIONS SHALL BE STAINLESS STEEL HARDWARE ONLY

DAMAGE PROTECTION:

THE ELECTRICAL CONTRACTOR SHALL CONSIDER THE WEATHERING OF EQUIPMENT OVER TIME AND ELIMINATE THE POSSIBILITY OF DEGRADATION DUE TO CORROSION, WATER ENTRY AND UV EXPOSURE. AS A RESULT, THE USE OF UNISTRUT OR SIMILAR MOUNTING SYSTEMS IS REQUIRED TO MOUNT ENCLOSURES, PULL BOXES, LOAD CENTERS, FUSE BOXES, OR OTHER EQUIPMENT.

ALL NEMA 4 BOXES SHALL BE EQUIPPED WITH LISTED DRAIN PLUGS INSTALLED TO ALLOW WATER TO DRAIN. ANY MODIFICATION TO AS-MANUFACTURED EQUIPMENT SHOULD BE DONE IN SUCH A WAY AS TO MAINTAIN ALL LISTED RATINGS.

3. ALL NEMA 3 BOXES SHALL BE EQUIPPED WITH A WEEP HOLE OR LISTED DRAIN PLUGS INSTALLED TO

4. ALL OLITDOOR ENCLOSURES REQUIRE AN APPROVED MEANS OF DRAINAGE AND VENTILATION.

ALL ELECTRICAL CONDUIT, EQUIPMENT AND COMPONENTS MUST BE ADEQUATELY PROTECTED FROM DAMAGE AND VANDALISM BY THE USE OF BOLLARDS. SHIELDS. GUARDS OR OTHER ACCEPTABLE MEA

ALL CIRCUIT BREAKERS INSTALLED THAT ARE SUBJECT TO REVERSE POWER FLOW SHALL BE LISTED AND LABELED AS BACKFEED COMPATIBLE.

ALUMINUM CONDUCTOR INSTALLATION NOTES:

MINIMUM WIRE SIZE FOR CURRENT CARRYING CONDUCTORS WHEN IMPLEMENTING ALUMINUM AS A CONDUCTOR SHALL BE 1/0 AWG STRANDED, COMPACT ELECTRICAL GRADE AA-8000 SERIES ALLOY.

ALUMINUM POWER CABLE, WIRE CONNECTORS, AND INSULATING AND CODING TAPE MANUFACTURERS SHALL BE APPROVED BY SUNEDISON PRIOR TO USAGE.

3. WHERE BOLTED CONNECTIONS ARE NOT POSSIBLE, MECHANICAL SCREW STYLE LUGS AND

4. USE OF A "ONE-SHOT" CRIMPER OR "DIE-LESS CRIMPERS" WILL NOT BE ALLOWED

COMPRESSION STYLE LUGS AND TERMINATIONS SHALL BE RATED FOR THE MAXIMUM DC AND AC VOLTAGE OF THE SYSTEM.

5.1. MUST BE PRE-FILLED WITH OXIDE INHIBITOR.

5.2. WIRE STRIPPING AND BRUSHING OF CONDUCTOR IN ACCORDANCE WITH VENDOR SPECS IS REQUIRED IMMEDIATELY PRIOR TO LUG INSTALLATION.

5.3. OXIDE INHIBITOR MUST BE APPLIED TO EXPOSED CONDUCTOR IMMEDIATELY AFTER STRIPPING AND BRUSHING AND IMMEDIATELY PRIOR TO INSTALLATION OF THE LUG.

5.4. USE COMPRESSION TOOL LISTED FOR USE WITH SELECTED COMPRESSION CONNECTOR A MINIMUM 9" LENGTH OF COLD OR HEAT SHRINK WITH A VOLTAGE RATING EQUAL TO THE CONDUCTOR SHALL BE APPLIED TO COVER THE CONNECTION BETWEEN CRIMP AND THE CONDUCTOR BEGINNING AT THE STRAIGHT SECTION OF THE CRIMP.

5.6. ALL CONNECTORS AND CORRESPONDING CRIMPING TOOLS SHALL BE ULLISTED FOR THEIR SPECIFIC APPLICATION. INSULATING AND COLOR CODING TAPE SHALL BE PREMIUM GRADE PRESSURE SENSITIVE VINYL, HEATICOLDIMOISTURESUNLICHTI RESISTANT. INSULATING TAPE SHALL BE BLACK AND COLOR CODING TAPE SHALL BE FADE RESISTANT.

FOR ALUMINUM MY CONDUCTORS, WHERE USED, THE GUIDELINES IN THIS SECTION PLUS GENERAL

GROUNDING:

SEE ELECTRICAL DIAGRAM AND ELECTRICAL DETAILS FOR MORE GROUNDING INFORMATION.

ONLY ONE CONNECTION TO DC CIRCUITS AND ONE CONNECTION TO AC CIRCUITS WILL BE USED FOR SYSTEM GROUNDING (NEC 890.42) (REFERENCED TO THE SAME POINT).

EQUIPMENT GROUNDING CONDUCTORS AND SYSTEM GROUNDING CONDUCTORS WILL HAVE AS SHORT A DISTANCE TO GROUND AS POSSIBLE AND A MINIMUM NUMBER OF TURNS.

NON-CURRENT CARRYING METAL PARTS SHALL BE CHECKED FOR PROPER GROUNDING; NOTING THAT TERMINAL LUGS BOLTED ON AN ENCLOSURES FINISHED SUFFACE MAY BE INSULATED BECAUSE OF PAINTFINISH. PAINTFINISH AT POINT OF CONTACT SHALL BE PROPERLY REMOVED. 4. RACKING COMPONENTS AND STRUCTURAL SUPPORTS MUST BE ELECTRICALLY BONDED TOGETHER BY AN

MODULES SHALL BE GROUNDED WITH EQUIPMENT GROUNDING METHODS APPROVED BY THE MANUFACTURER WITH A MEANS OF BONDING LISTED FOR THIS PURPOSE.

THE CONNECTION TO THE MODULE OR PANEL OF THIS PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE SO ARRANGED THAT FEMOVAL OF A MODULE OR A PANEL FROM THE PHOTOVICTAC SOURCE GROUT DOES NOT INTERNET A GROUNDED CONJUCTOR TO ANOTHER PHOTOVICTAC SOURCE GROUT DOES MODULES INTERCONNECTED AS SYSTEMS FUED. AT 50 YEAR LESS WITH OR WITHOUT EXCORNE CHILD AND THE STATE OF A STATE OF THE STATE OF THE STATE OF A STATE OF THE STATE OF THE STATE OF THE STATE OF A STATE OF THE ST

GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, INCLUDING BUT NOT LIMITED TO GROUND RODS, GROUNDING LUGS, GROUNDING CLAMPS, ETC.

WHERE USED, GROUND LUGS SHALL BE RATED FOR DIRECT BURIAL (DB RATED). CONTRACTOR IS TO SUPPLY DOCUMENTATION PROVING THIS DURING PRODUCT SUBMITTALS.

9 BONDING PAINTED COMPONENTS.

10. ALL RACEWAYS AND ENCLOSURES WILL REQUIRE A PHYSICAL CONNECTION TO THE GEC CONTAINED

GROUND FAULT PROTECTION:

PHOTOVOLTAIC INVERTERS SHALL BE EQUIPPED WITH DC GROUND FAULT PROTECTION TO REDUCE FIRE HAZARDS. INVERTERS ARE ALSO EQUIPPED WITH ANTI-ISLANDING CIRCUITRY.

DISCONNECTING MEANS:

MEANS SHALL BE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE PHOTOVOLTAIC POWER SOURCE FROM ALL OTHER EXISTING CONDUCTORS.

WHERE A CIRCUIT GROUNDING CONNECTION IS NOT DESIGNED TO BE AUTOMATICALLY INTERRUPTED AS PART OF THE GROUND-FAULT PROTECTION SYSTEM REQUIRED BY NEC 690.5, A SWITCH OR CIRCUIT PART OF THE GROUNDEAULT PROTECTION SYSTEM REQUIRED BY NEC 890.5, A SWITCH OR CIRCUIT BERAKER USED AS A DISCONNECTION MEANS SHALL NOT HAVE A POLE IN THE GROUNDED CONDUCT THE GROUNDED CONDUCTOR MAY HAVE A BOLTED OR TERMINAL DISCONNECTING MEANS TO ALLOW MAINTENANCE OR TROUBLESHOOTING BY QUALIFIED PERSONNEL.

EQUIPMENT SUCH AS PHOTOVOLTAIC SOURCE CIRCUITS, OVER CURRENT DEVICES, AND BLOCKING DIODES SHALL BE PERMITTED ON THE PHOTOVOLTAIC SIDE OF THE PHOTOVOLTAIC DISCONNECTING

MEANS SHALL BE PROVIDED TO DISCONNECT EQUIPMENT SUCH AS INVERTERS, BATTERIES, CHARGE CONTROLLERS, AND THE LIKE FROM ALL UNGROUNDED CONDUCTORS OF ALL SOURCES. IF THE EQUIPMENT IS ENERGIZED FROM MORE THAN ONE SOURCE, THE DISCONNECTING MEANS SHALL BE GROUPED AND IDENTIFIED.

A SINGLE DISCONNECTING MEANS SHALL BE DEDMITTED FOR THE COMBINED ACCULITATION OF ONE OF MORE INVERTERS IN AN INTERACTIVE SYSTEM, PROVIDED EACH INVERTER ASSOCIATED WITH DISCONNECT HAS ITS OWN INTERNAL AC DISCONNECT. 8. DISCONNECTING MEANS SHALL BE PROVIDED TO DISCONNECT A FUSE FROM ALL SOURCES OF SUPPLY IF

THE FUSE IS ENERGIZED FROM BOTH DIRECTIONS AND IS ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS. SUCH A FUSE IN A PHOTOVOLTAIC SOURCE CIRCUIT SHALL BE CAPABLE OF BEIND DISCONNECTED INDEPENDENTLY OF FUSES IN OTHER PHOTOVOLTAIC SOURCE CIRCUIT S. ALL DISCONNECTS AND COMBINERS SHALL BE SECURED FROM UNAUTHORIZED AND UNQUALIFIED PERSONNEL BY EITHER LOCK OR LOCATION.

REQUIRED SAFETY SIGNS AND LABELS:

REQUIRED SAFETY SIGNS AND LABELS SHALL BE ETCHED PLACARDS PERMANENTLY ATTACHED BY ADHESIVE OR OTHER MECHANICAL MEANS. LABELS SHALL COMMEY WITH ARTICLE 680 OF THE NEC OR OTHER APPLICABLE STATE AND LOCAL CODES. SEE LABELS AND MARKING PAGE FOR MORE INFORMATION. WEAR PERSONAL PROTECTIVE EQUIPMENT(PPE) APPROPRIATE FOR THE HAZARD: INSULATED GLOVES WITH PROTECTORS, INSULATED MATS AND TOOLS.

ANY SWITCH, FUSES, OR CIRCUIT BREAKERS THAT CAN BE ENERGIZED IN EITHER DIRECTION SHALL BE LABELED AS FOLLOWS:

WARNING: ELECTRICAL SHOCK HAZARD DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

2. THIS PHOTOVOLTAIC SYSTEM WILL BE EQUIPPED WITH DC DISCONNECTING COMBINERS WHICH WILL BE LABELED AS FOLLOWS:

PHOTOVOLTAIC DISCONNECTING COMBINERS

THIS DIJOTOWOLTAIC SYSTEM WILL BE EQUIDDED WITH AN AC DISCONNECT WHICH WILL BE LABELED AS

A MADKING SPECIEVING THE DHOTOWOLTHIC DOWED SOLIDCE DATED AS EQUI OWS SHALL BE DECIVIDED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTION MEANS FOR THE POWER SOURCE

OPERATING CURRENT OPERATING VOLTAGE MAXIMUM SYSTEM VOLTAGE SHORT CIRCUIT CURRENT COMBINER

ANY JUNCTION BOX, COMBINER BOX, DISCONNECT, AND DEVICE WHERE ENERGIZED UNGROUNDED DC CIRCUITS MAY BE EXPOSED DURING SERVICE:

WARNING: ELECTRICAL SHOCK HAZARD THE CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUND AND MAY BE ENERGIZED

POINT OF CONNECTION

PC <##>

STRING

STR <inverter##> ##

STR_01_0\
STRING -

NAME

ALL INTERACTIVE SYSTEM POINTS OF INTERCONNECTION WITH OTHER SOURCES SHALL BE MARKED AT AN ACCESSIBLE LOCATION AT THE DISCONNECTION MEANS.

A PERMANENT ETCHED PLAQUE OR DIRECTORY SHALL BE PROVIDED IDENTIFYING THE LOCATION OF THE

3. ALL REQUIRED EQUIPMENT SHALL BE UL LISTED AND LABELED ACCORDINGLY.

ALL PULL BOXES SHOULD BE PERMANENTLY MARKED WITH EITHER "ELECTRIC" OR "COMMUNICATION" DEPENDING ON THE APPLICATION. PER NEC 110.78(E).

REFER TO FOLIPMENT INSTALLATION MANUAL

GENERAL NOTES FOR GRID TIE PHOTOVOLTAIC

INVERTERS:

Exhibit B - Development Plans

PARK OF PASO ROBLES CRESTON ROAD, CRESTON ROAD, RWOOD CITY (Ш 〒

STAMP

SunEdison

600 CLIPPER DRIVE

BELMONT, CA 94002 (650) 453-5600

PROJECT NUMBER [CA-15-1044]

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SHEET TITLE

PASO

ELECTRICAL NOTES

ARCH "D" 24" X 36" (610 x 914)

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REVISION DATE INIT

DATE: DRAWN BY ENGINEER APPROVED BY

30% DESIGN SCALE: NO SCALE

E-001

600A NON-LOAD BREAK ELBOW **EQUIPMENT LABELING KEY** TRANSFORMER NUMBER TRANSFORMER SECTIONALIZED CABINET NUMBER XFR ## REFERS TO CABLE SCHEDULE. TRANSFORMER -MV CABLE IDENTIFICATION NUMBER IDENTIFIER DELTA CONNECTION INVERTER INV ## WYE CONNECTION INVERTER : GROUND IDENTIFIER

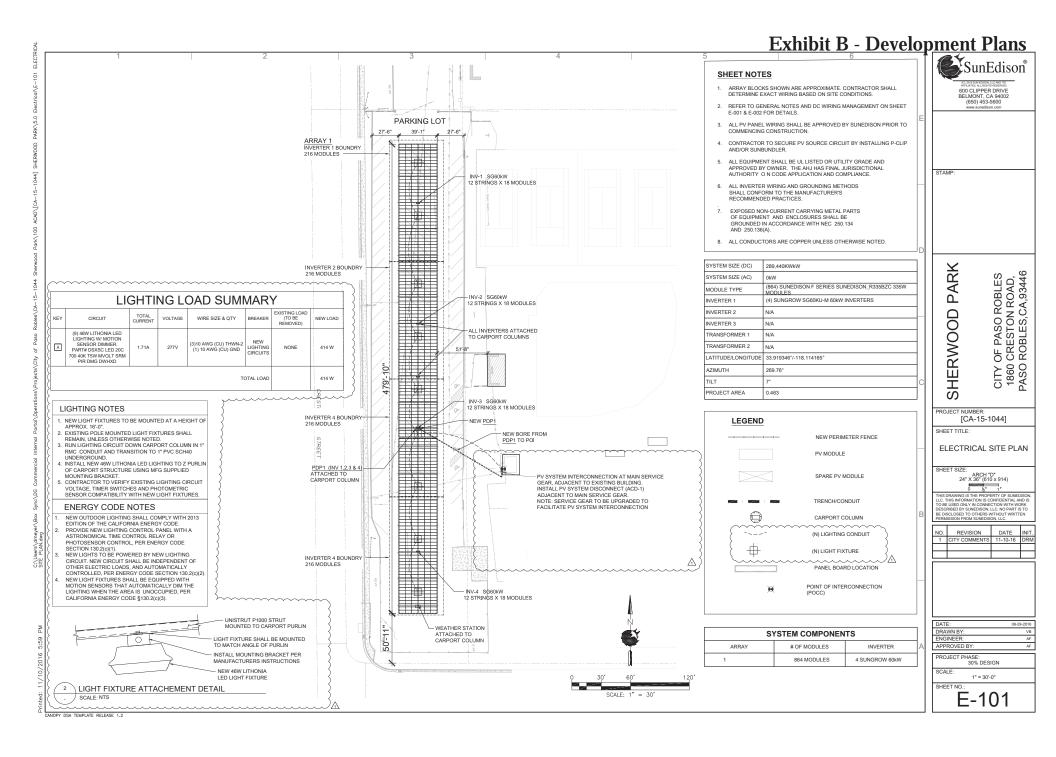
ELECTRICAL SYMBOLS

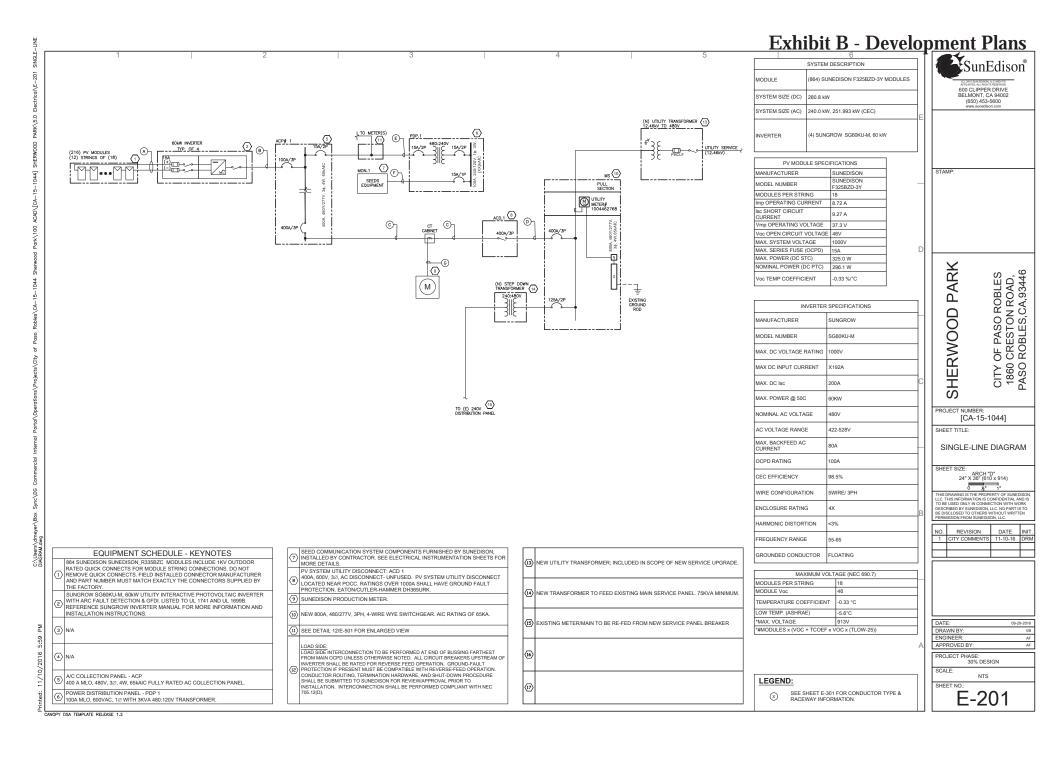
INVERTER

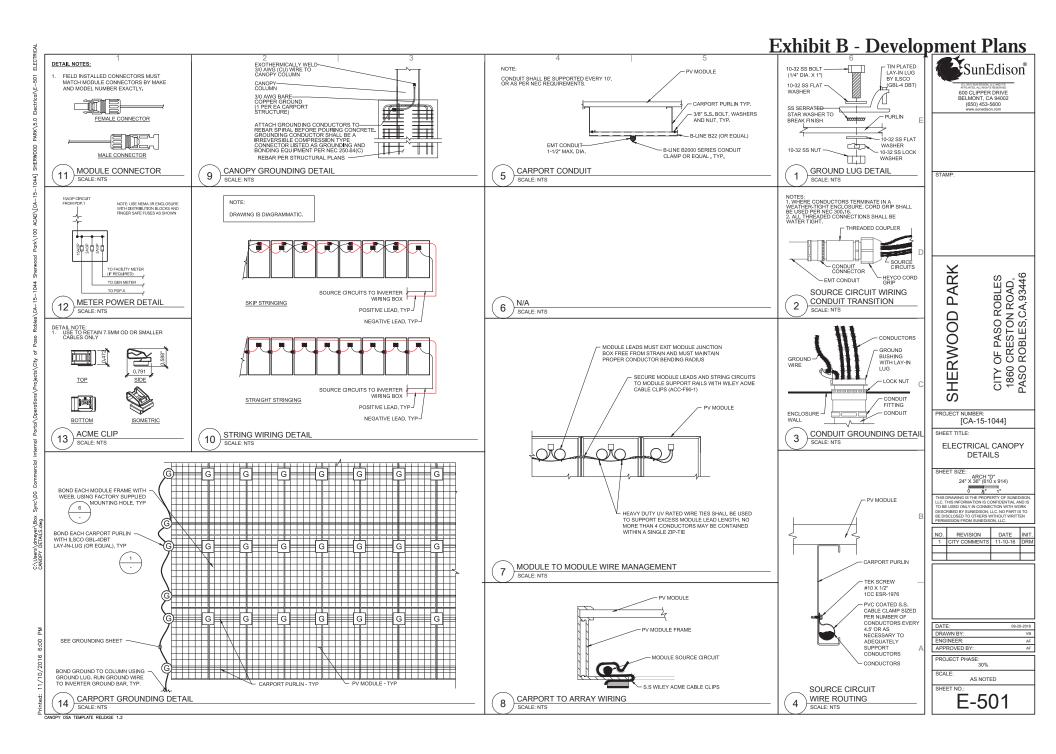
SURGE ARRESTOR

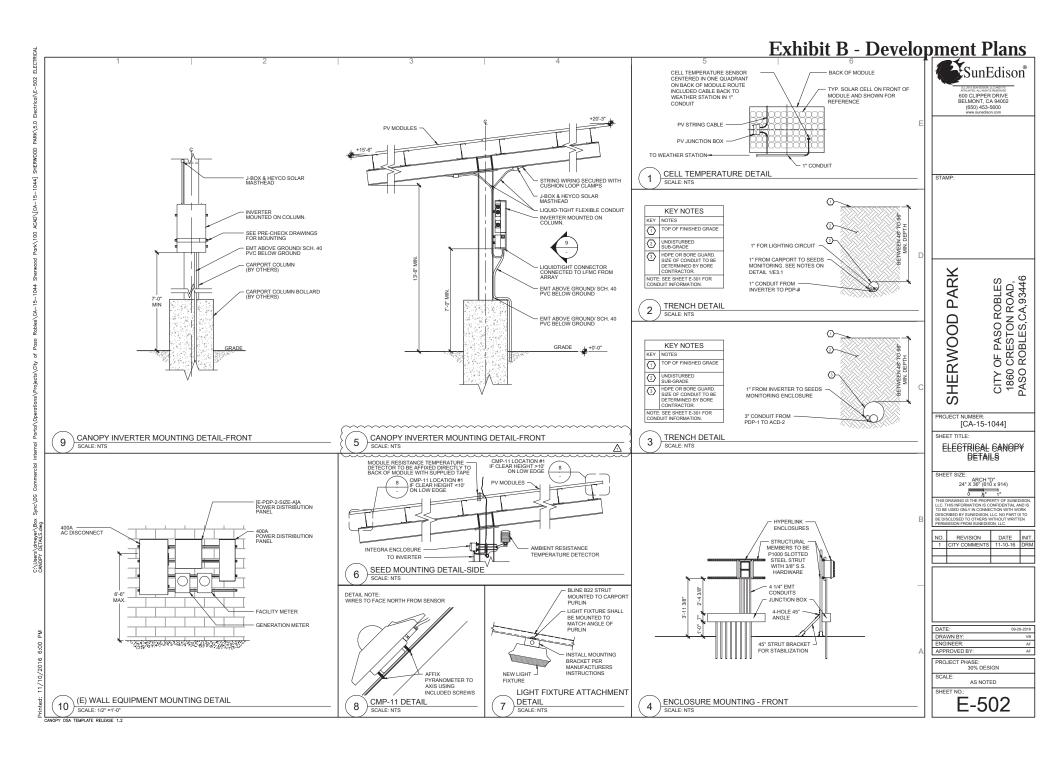
FUSE

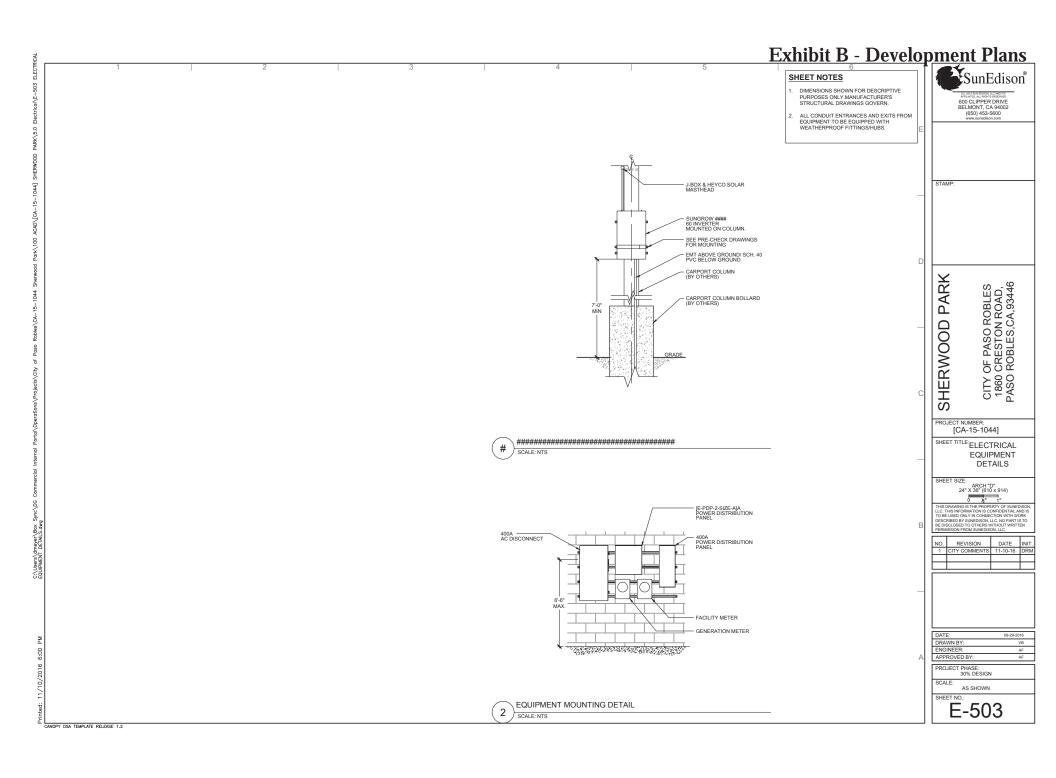
TRANSFORMER

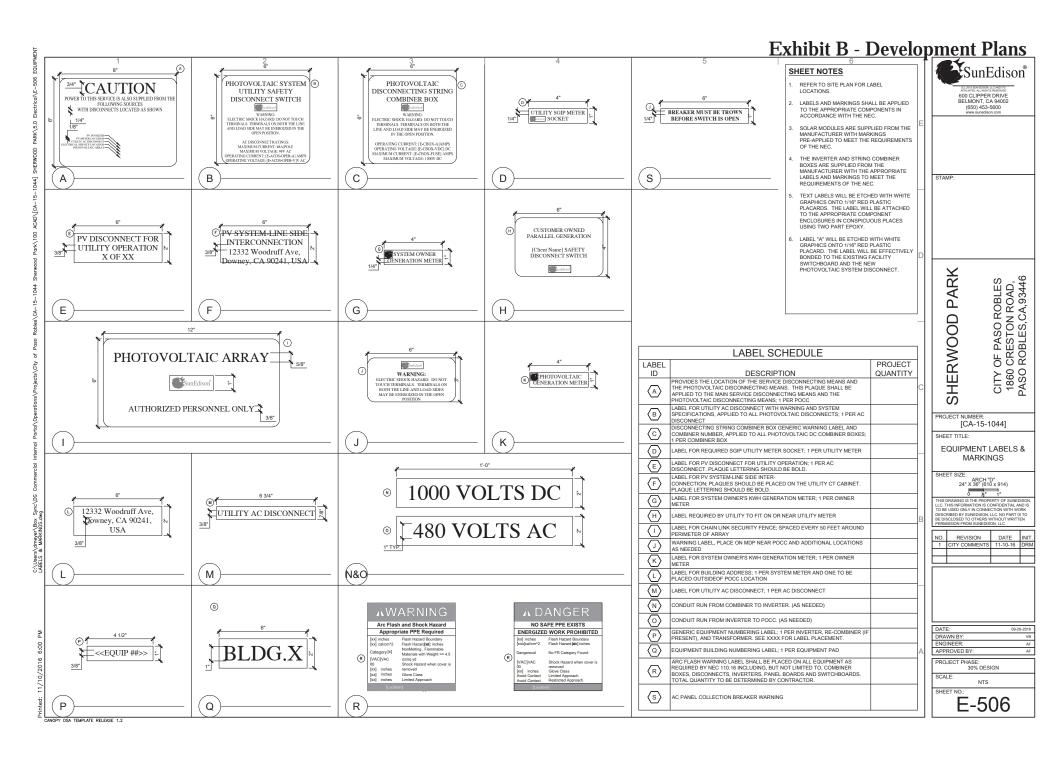


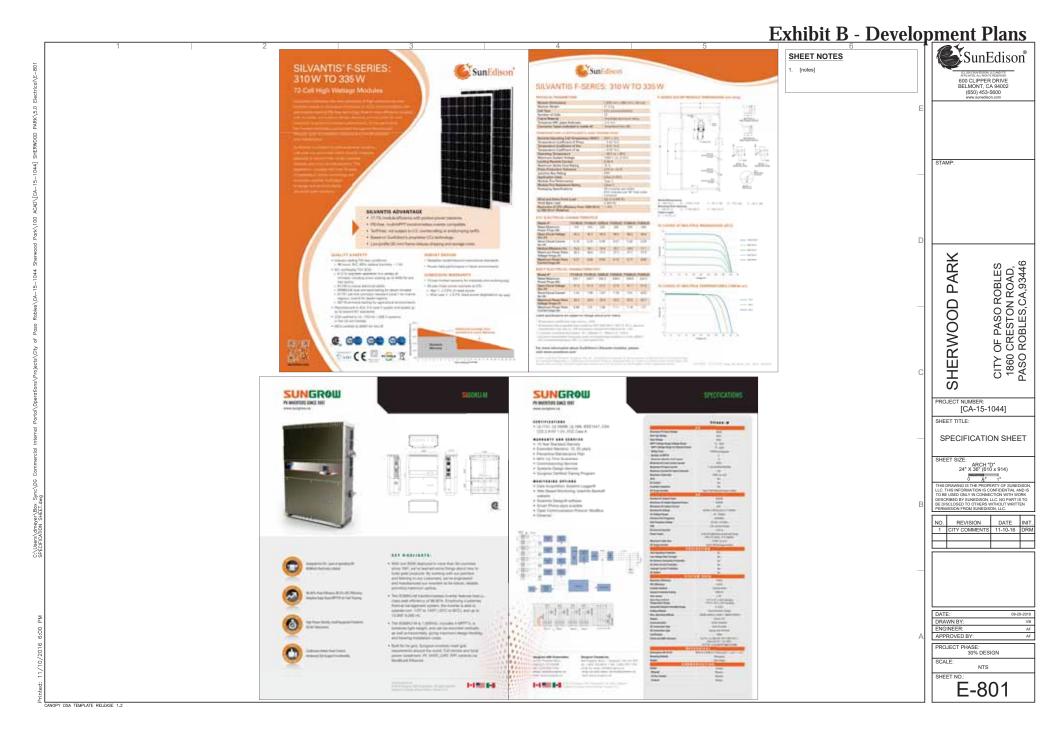


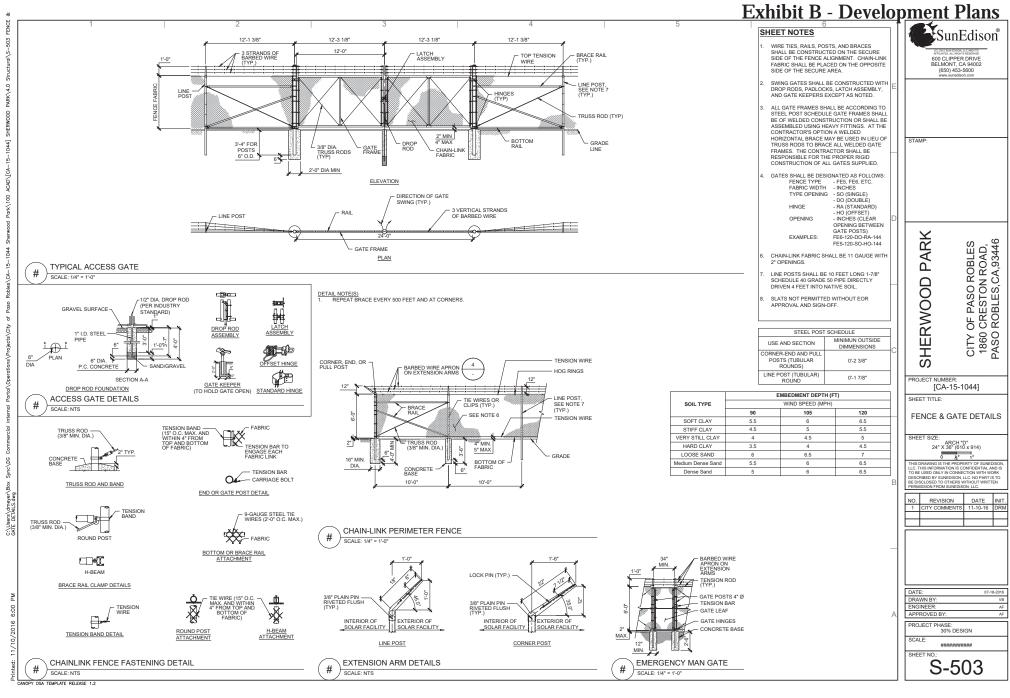












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