

## DOCKETED

<b>Docket Number:</b>	09-AFC-08C
<b>Project Title:</b>	Genesis Solar Energy Project
<b>TN #:</b>	203312
<b>Document Title:</b>	Petition to Amend for Spare Transformer
<b>Description:</b>	Petition to Amend to allow Genesis (GSEP) to store an auxiliary 25-MVA three-phase transformer on site
<b>Filer:</b>	Eric Veerkamp
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	11/4/2014 3:30:22 PM
<b>Docketed Date:</b>	11/4/2014



October 28, 2014

Eric Veerkamp  
California Energy Commission  
1516 Ninth Street, MS-2000  
Sacramento, CA 95814

Re: Petition to Amend The Commission Decision For Genesis Solar Energy Center,  
Docket No. 09-AFC-8.

Dear Mr. Veerkamp,

Pursuant to Section 1769 of the California Energy Commission (CEC) Siting Regulations, NextEra Energy Resources hereby submits the attached Petition for a Staff Approved Project Change to Amend the Genesis Solar Energy Facility Docket No. 09-AFC-8. The requested changes do not affect the project description or any Conditions of Certification in the Commission Decision or subsequent amendments.

The petition is to allow the Genesis Solar Energy Facility to store a spare three-phase 25 MVA Auxiliary Transformer within the facility. The purpose of the proposed spare transformer is to minimize the outage period needed for replacement due to emergency failure of the on-line unit.

We have reviewed the Commission Decision (Docket No. 09-AFC-8), and we believe that the request is an insignificant project change and will not result in any new environmental impacts or require any modification to the existing Conditions of Certification contained in the Final Decision.

Thank you for your attention, and please feel free to call me at (561) 691-2232 should you have any questions or require any additional information.

Sincerely,

A handwritten signature in black ink that reads "Charlyn M. Mosley". The signature is written in a cursive style.

Charlyn Mosley  
Senior Environmental Specialist  
Genesis Solar Energy Project

enc.

cc: L. Goguts – Genesis  
R. Garcia – NEER

NextEra Energy Resources, LLC

700 Universe Boulevard, Juno Beach, FL 33408

## **GENESIS SOLAR ENERGY FACILITY APPLICATION FOR STAFF APPROVED PROJECT CHANGE**

As required by Section 1769 of the CEC Siting Regulations, NextEra Energy Resources (NEER) hereby submits the following information in support of a staff approved project change at the Genesis Solar Energy Facility (Genesis).

**Pursuant to Section 1769(a)(1)(A) and (B), this section provides a complete description of the proposed modifications, including new language for affected conditions, and the necessity for modifications.**

The modification proposes to store one (1) spare three-phase 25 MVA Auxiliary Transformer at the Genesis site, which can be used as a replacement for the on-line unit in case of emergency failure. It will be mounted on a concrete foundation with secondary containment, to capture oil in case of spillage. Low power electrical supply will be provided for heating elements inside the control cabinet to prevent moisture build-up, and also to periodically check cooling fan operation. Attached are the spare foundation plans which include a Site Plan, transformer nameplate which provides product specifications, and the transformer outline. Genesis will use Bureau Veritas as the Chief Building Official (CBO) for the project.

**Pursuant to Section 1769(a)(1)(C), a discussion is required if the modification is based on information that was known by the petitioner during the certification proceeding, and an explanation of why the issue was not raised at that time.**

After review of the spare equipment strategy for Genesis, NEER recently determined that the Auxiliary Transformer is critical in maintaining the system's heat transfer fluid (HTS), and the Plant cannot operate without it. Should surprise failure occur, having the Spare Auxiliary Transformer would enable Genesis to quickly replace the unit within approximately one week and restore power. Without it, replacement would take approximately 6 months.

**Pursuant to Section 1769(a)(1)(D), a discussion is required on whether the modification is based on new information that changes or undermines the assumptions, rationale, findings, or other bases of the final decision, and explanation of why the change should be permitted.**

The modification is based on recent review of the NEER spare equipment strategy. The installation of a Spare Auxiliary Transformer is a reliability measure that minimizes outage time needed for replacement of the on-line unit in the event of a surprise failure.

**Pursuant to Section 17699(a)(1)(E), an analysis of the impacts the modifications may have on the environment and proposed measures to mitigate any significant adverse impacts is required.**

The storage of the spare auxiliary transformer will have no significant adverse impacts on the environment. The spare transformer will use non-PCB insulating oil and the foundation will be provided with secondary containment to adequately capture any potential oil spillage. The facilities Spill Prevention, Containment and Countermeasure (SPCC) plan, Stormwater Pollution Prevention Plan (SWPPP), and Hazardous Materials Business Plan (HMBP) will be modified to capture the additional oil and controls resulting from the new spare auxiliary transformer. The spare transformer will use non-PCB insulating oil meeting

**Pursuant to Section 17699(a)(1)(F), a discussion of the impact of the modification on the facility's ability to comply with applicable laws, ordinances, regulations, and standards is required.**

The proposed modification will not have an impact on the facility's ability to comply with applicable laws, ordinances, regulations and standards.

**Pursuant to Section 1769(a)(1)(G), a discussion of how the modifications affect the public is required.**

The proposed upgrade will have no significant environmental effects and will be in compliance with applicable LORS, therefore there will be no effects to the public.

**Pursuant to Section 1769(a)(1)(H), a list of property owners potentially affected by the modification is required.**

The proposed upgrade will have no significant environmental effects and will be in compliance with applicable LORS, therefore there will be no effects to the property owners.

**Pursuant to Section 1769(a)(1)(I), a discussion of the potential effect on nearby property owners, the public and the parties in the application proceedings is required.**

The proposed upgrade will have no significant environmental effects and will be in compliance with applicable LORS, therefore there will be no effects to the property owners, the public or other properties.

18.000 TYP

0.500 TYP  
0.500 TYP

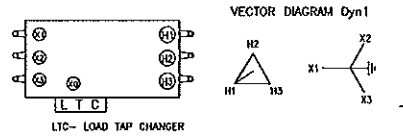
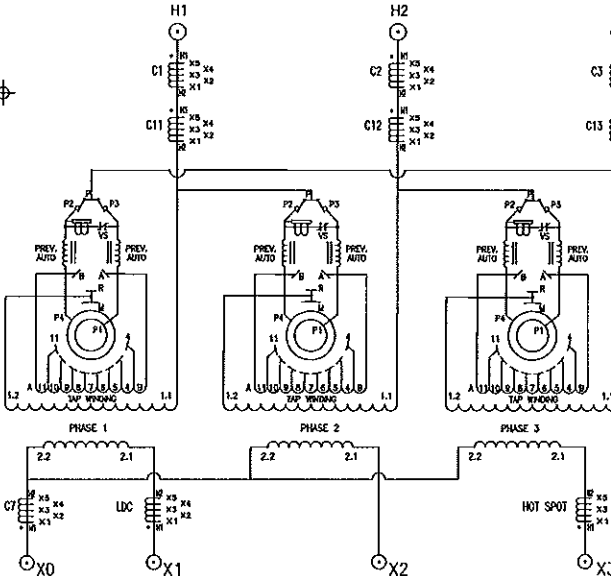


THREE PHASE POWER TRANSFORMER

MANUFACTURED BY CG POWER SYSTEMS USA INC WASHINGTON, MO 63090, USA			
CUSTOMER'S P.O. NO. 2100164397			
TRANSFORMER RATED VOLTAGE (NO LOAD) kV	HV	LV	
	13.8	4.16	
RATED POWER (MVA)	CLASS	RISE ° C	
	ONAN	55	15 15
	ONAF1	55	20 20
	ONAF2	55	25 25
RATED LINE CURRENT ONAF2	1045	3470	
FULL WAVE IMPULSE LEVEL kVp	110	75	
BUSHINGS IMPULSE LEVEL kVp	150	75	
NEUTRAL BUSHINGS IMPULSE LEVEL	75		
WINDING MATERIAL	COPPER		
FREQUENCY	60 Hz		
PHASES	3		
MANUFACTURER'S ORDER NO.	496902545-10		
MANUFACTURER'S SERIAL NO.	20151400563		
MODEL	ZUP1511003		
YEAR OF MANUFACTURE	2014		

VOLTAGE	AMPERE AT ONAF2 25 MVA	LOAD TAP CHANGER						VOLTAGE	AMPERE AT ONAF2 25 MVA	LOAD TAP CHANGER					
		POS DIRECTS IN EACH PHASES								POS DIRECTS IN EACH PHASES					
		P1 TO	P4 TO	R TO	P1 TO	P4 TO	R TO			P1 TO	P4 TO	R TO	P1 TO	P4 TO	R TO
4626	3120	16R	11	11	B	B	4131	3494	1L	A	11	A	A		
4605	3134	15R	11	10	B	B	4114	3508	2L	11	11	A	A		
4563	3163	14R	10	10	B	B	4081	3537	3L	11	10	A	A		
4543	3178	13R	10	9	B	B	4064	3551	4L	10	10	A	A		
4502	3206	12R	9	9	B	B	4032	3580	5L	10	9	A	A		
4482	3221	11R	9	8	B	B	4016	3594	6L	9	9	A	A		
4422	3249	10R	8	8	B	B	3984	3623	7L	9	8	A	A		
4394	3264	9R	8	7	B	B	3968	3638	8L	8	8	A	A		
4385	3283	8R	7	7	B	B	3937	3666	9L	8	7	A	A		
4327	3307	7R	7	6	B	B	3921	3681	10L	7	7	A	A		
4327	3336	6R	6	6	B	B	3891	3708	11L	7	6	A	A		
4309	3350	5R	6	5	B	B	3876	3724	12L	6	6	A	A		
4272	3378	4R	5	5	B	B	3846	3753	13L	6	5	A	A		
4254	3393	3R	5	4	B	B	3832	3767	14L	5	5	A	A		
4216	3424	2R	4	4	B	B	3803	3796	15L	5	4	A	A		
4200	3442	1R	4	4	B	B	3768	3810	16L	4	4	A	A		
4160	3470	NGR	A	A	A	A									

SERVICE ALTITUDE	<3300 FT.	IMP. AT 15 MVA, NEUTRAL TAP POS	POSITIVE SEQUENCE	### %
INSULATION LIQUID PCB < 1 PPM	INHIBITED MINERAL OIL TYPE II			
SERVICE	CONTINUOUS			



LOCATION	RATIO	ACCURACY	RATIO
C1, C2, C3	2000:5MR	C800	X3-X4 300:5 X1-X3 1200:5
			X1-X2 400:5 X1-X4 1600:5
			X4-X5 500:5 X2-X5 1600:5
			X2-X3 800:5 X1-X5 2000:5
			X2-X4 1100:5
			X1-X2 1000:5 X2-X4 5000:5
C11, C12, C13	8000:5MR	C800	X3-X4 2000:5 X1-X4 6000:5
			X2-X3 3000:5 X2-X5 7000:5
			X1-X3 4000:5 X1-X5 8000:5
			X2-X3 50:5 X2-X4 300:5
			X1-X2 100:5 X1-X4 400:5
			X1-X3 150:5 X3-X5 450:5
C7	600:5MR	C800	X4-X5 200:5 X2-X5 500:5
			X3-X4 250:5 X1-X5 600:5
			X1-X2 985:5 X2-X4 2500:5
			X2-X3 1000:5 X1-X4 3485:5
			X3-X4 1500:5 X3-X5 3500:5
			X1-X3 1885:5 X2-X5 4500:5
HOT SPOT	5485:5MR	C800	X4-X5 2000:5 X1-X5 5485:5
			X1-X2 500:5 X2-X4 2500:5
			X3-X4 1000:5 X1-X4 3000:5
			X2-X3 1500:5 X2-X5 3500:5
			X1-X3 1885:5 X2-X5 4500:5
			X1-X3 2000:5 X1-X5 4000:5

APPROXIMATE WEIGHT AND VOLUMES				
	KG	LBS	LITERS	GALLONS
UNTANKING: CORE & WINDING	18269	40276		
TANK + FITTINGS	15033	33142		
OIL VOL. RADIATORS	756	1667	856	226
OIL VOL. LTC	903	1991	1022	270
OIL VOLUME MAIN TANK	10728	23652	12140	3207
OIL VOLUME TOTAL	12388	27310	14017	3703
TOTAL MASS	45690	100728		

NOTES:  
 -REFER TO TRANSFORMER INSTRUCTION MANUAL FOR INSTALLATION AND OPERATING INSTRUCTIONS  
 -TANK AND RADIATORS FOR 14.7 PSI VACUUM FILLING  
 -LIQUID LEVEL CHANGES 0.753" PER 10°C OF CHANGE IN OIL TEMPERATURE  
 -25°C LIQUID LEVEL IS 8.1" BELOW THE TANK COVER

BUILT TO ANSI IEEE

Ø0.188 HOLE  
6 PLACES

R0.500

24.000 TYP

REV					DATE	BY	CHK	APP	DESCRIPTION
A					08/01/2014	AM	LT	AS	ISSUED
B					08/29/2014	AM	LT	AS	NOTES CHANGED

CG POWER SYSTEMS USA INC  
WASHINGTON, MO 63090, USA

NAME: NAMEPLATE

MATERIAL: 032" STAINLESS STEEL

DATE: 3/26/2012

PART NUMBER: 1511003-04

SCALE: DECIMAL ± .032

ANGULAR: ± 2'

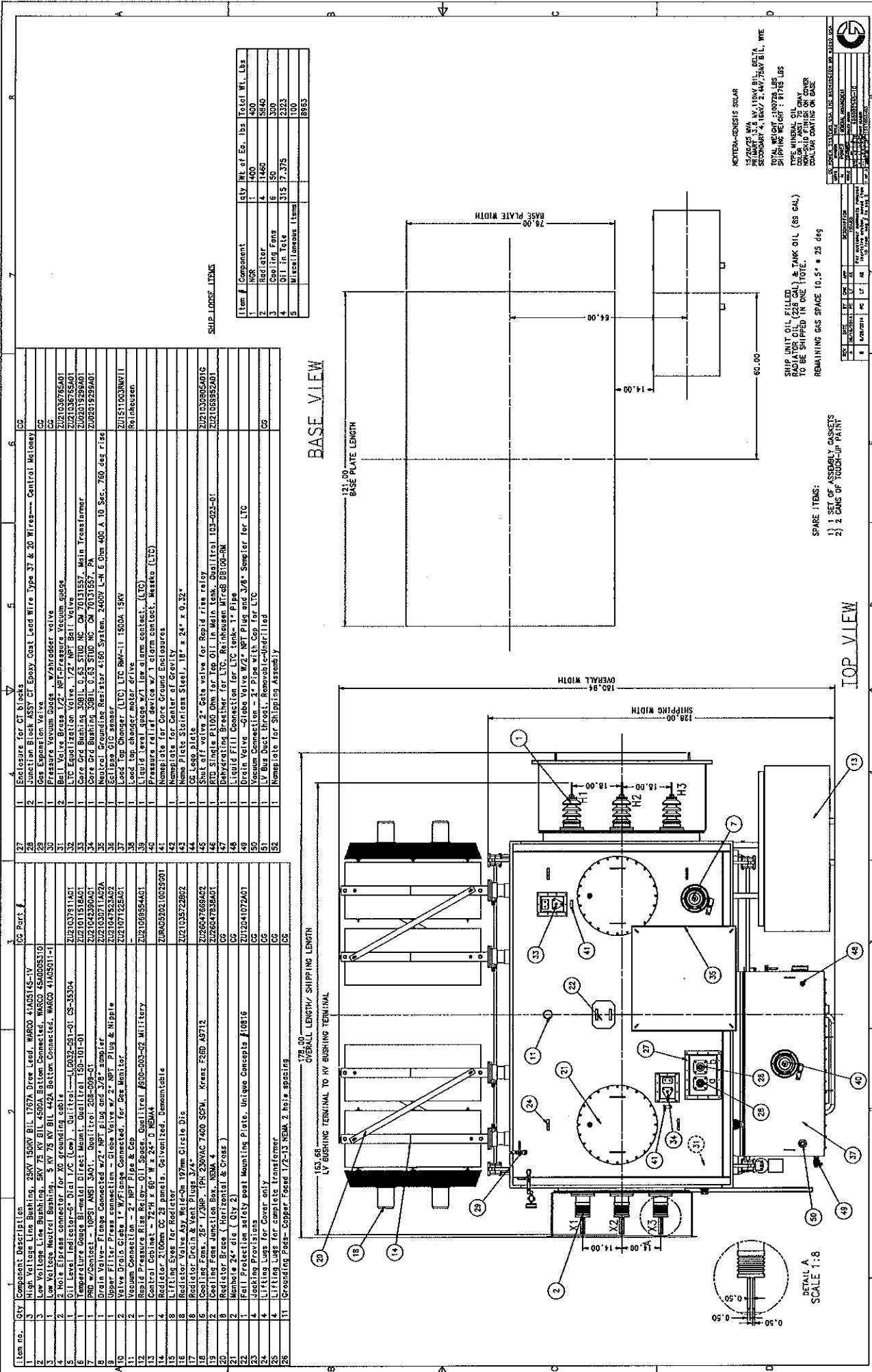
FRACTIONAL: ± 1/32

SCALE: NTS

TOLERANCES (except as noted):

DRAWN BY: AK

APPROVED: AP



Item No.	Qty	Component Description	Part No.	Notes
1	1	End Centre for GS blocks	17	
2	1	Junction Block ASSY, CT Epoxy Coat Lead Wire Type 37 & 30 Wires - Control Mainline	65	
3	1	Gas Exemption Valve	20	
4	1	Frassura Vacuum Gauge - Wahlander valve	31	
5	1	Ball Valve Brass 1/2" NPT - Pressure Vacuum Gauge	2021036785A01	
6	1	LTC Equalization Valve, 1/2" NPT Ball Valve	2021036785A01	
7	1	Core Grid Bushing 3081L 0.63 STD NC CM 70131557, Main Transformer	2020219299A01	
8	1	Core Grid Bushing 3081L 0.63 STD NC CM 70131557, PA	2020219299A01	
9	1	Neutral Grounding Resistor 4160 System, 2460V L-N 6 Ohm 400 A 10 Sec, 760 deg rise	2021036785A01	
10	1	Selfless OTC assmer	2021036785A01	
11	1	Lead Top Changer (LTC) LTC RMW-11 150DA 1949	2021036785A01	
12	1	Lead top changer motor drive	2021036785A01	
13	1	Liquid level gauge w/ 2" alarm contact, (LTC)	2021036785A01	
14	1	Wires for 4" Gas Ground Enclosure	2021036785A01	
15	1	Wires for 4" Gas Ground Enclosure	2021036785A01	
16	1	Nameplate for Center of Gravity	2021036785A01	
17	1	GS Legs plate	2021036785A01	
18	1	Shut off valve 2" Gate valve for Rapid rise relay	2021036785A01	
19	1	RTD Single P100 Ohm for Top Oil in Main tank, Duplitol 103-023-01	2021036785A01	
20	1	Dehydrating Breather for LTC, Reinhausen MRCB DB100-RM	2021036785A01	
21	1	Liquid Fill Connection for LTC tank- 1" Pipe	2021036785A01	
22	1	Lead Valve -Gibbs Valve W/2" NPT Plug and 3/8" Sampler for LTC	2021036785A01	
23	1	Vacuum Connection - 3" Pipe with Cap for LTC	2021036785A01	
24	1	LTV Bus Duct Breast, Removetouch-Drilled	2021036785A01	
25	1	Memoplate for Shipping Assembly	2021036785A01	

BASE VIEW

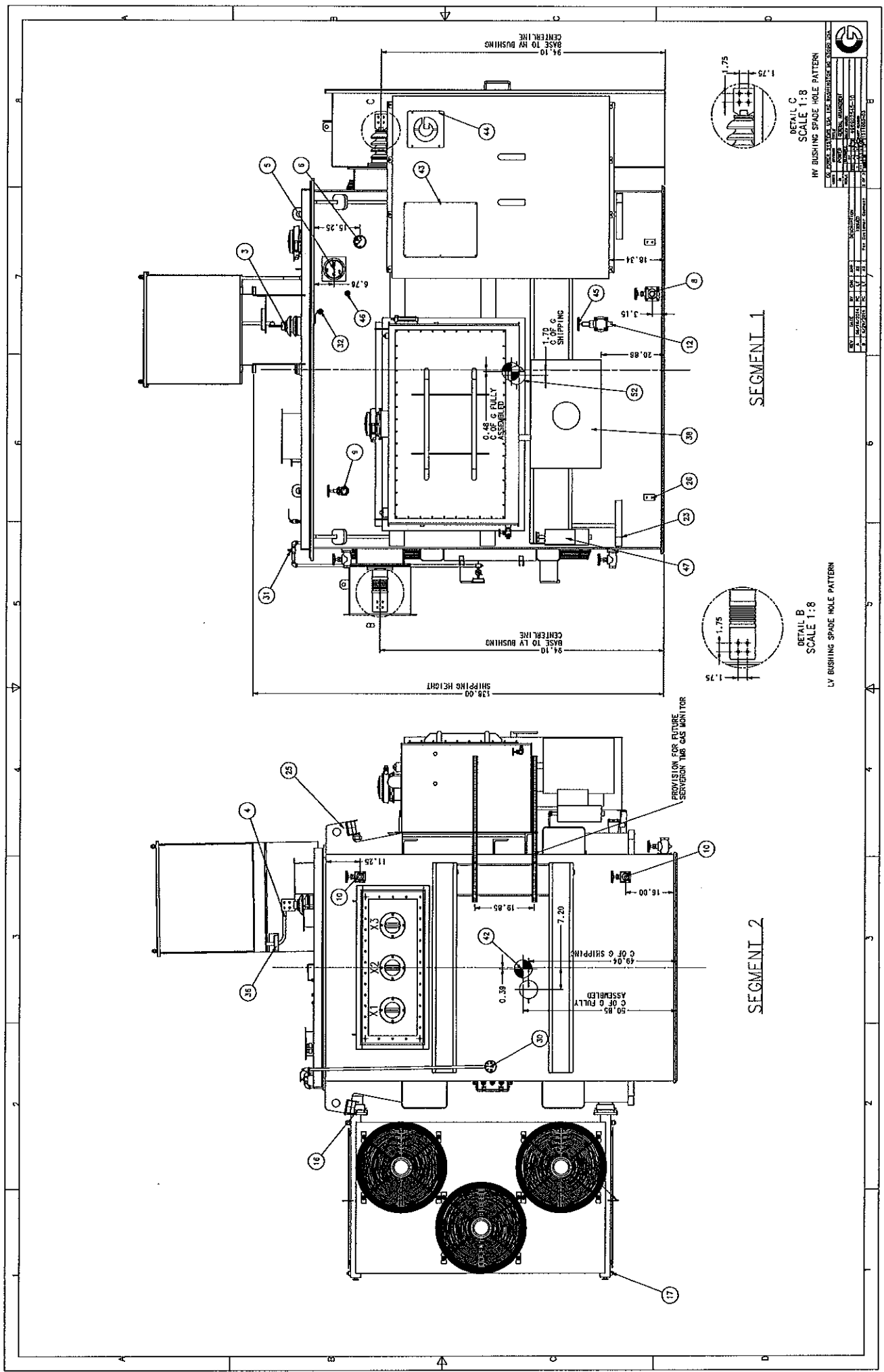
TOP VIEW

Item #	Component	Qty	WT of Ea. Lbs	Total Wt. Lbs
1	HGR	1	400	400
2	REGULATOR	4	4480	17920
3	COOLING FANS	4	50	200
4	LIFT LUGS	315	7.375	2323
5	WHEEL/TURNER, ITEMS			1500
				8953

MOYON-CRISIS SOLAR  
 15/20/25 WVA IN 118" BIL. 90" TL  
 SECONDARY 4.16KV / 2.44V 75MW BIL. WTE  
 TOTAL WEIGHT - 180720 LBS  
 SHIPPING WEIGHT - 81745 LBS  
 TYPE MINERAL OIL  
 RADIATOR OIL (228 GAL) & TANK OIL (86 GAL)  
 TO BE SHIPPED IN ONE TOTE.  
 WALK-IN FINISH ON COVER  
 QUALITY PAINTING ON BASE

- SPARE ITEMS:  
 1) 1 SET OF ASSEMBLY CASSETS  
 2) 2 GALS OF TOUCH-UP PAINT

REV	DATE	BY	CHK	APP	DESCRIPTION
1					ISSUED FOR CONSTRUCTION
2					ISSUED FOR CONSTRUCTION
3					ISSUED FOR CONSTRUCTION
4					ISSUED FOR CONSTRUCTION
5					ISSUED FOR CONSTRUCTION
6					ISSUED FOR CONSTRUCTION
7					ISSUED FOR CONSTRUCTION
8					ISSUED FOR CONSTRUCTION
9					ISSUED FOR CONSTRUCTION
10					ISSUED FOR CONSTRUCTION
11					ISSUED FOR CONSTRUCTION
12					ISSUED FOR CONSTRUCTION
13					ISSUED FOR CONSTRUCTION
14					ISSUED FOR CONSTRUCTION
15					ISSUED FOR CONSTRUCTION
16					ISSUED FOR CONSTRUCTION
17					ISSUED FOR CONSTRUCTION
18					ISSUED FOR CONSTRUCTION
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41					ISSUED FOR CONSTRUCTION
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43					ISSUED FOR CONSTRUCTION
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45					ISSUED FOR CONSTRUCTION
46					ISSUED FOR CONSTRUCTION
47					ISSUED FOR CONSTRUCTION
48					ISSUED FOR CONSTRUCTION
49					ISSUED FOR CONSTRUCTION
50					ISSUED FOR CONSTRUCTION
51					ISSUED FOR CONSTRUCTION
52					ISSUED FOR CONSTRUCTION



SEGMENT 1

SEGMENT 2

DETAIL B  
SCALE 1:8  
LV BUSHING SPADE HOLE PATTERN

DETAIL C  
SCALE 1:8  
HV BUSHING SPADE HOLE PATTERN

REV	DATE	BY	CHKD	APP'D
1	10/15/53	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
2	11/15/53	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
3	12/15/53	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
4	1/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
5	2/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
6	3/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
7	4/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
8	5/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
9	6/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
10	7/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
11	8/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
12	9/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
13	10/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
14	11/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
15	12/15/54	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
16	1/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
17	2/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
18	3/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
19	4/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
20	5/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
21	6/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
22	7/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
23	8/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
24	9/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
25	10/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
26	11/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
27	12/15/55	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
28	1/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
29	2/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
30	3/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
31	4/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
32	5/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
33	6/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
34	7/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
35	8/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
36	9/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
37	10/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
38	11/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
39	12/15/56	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
40	1/15/57	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
41	2/15/57	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS
42	3/15/57	J. W. HARRIS	J. W. HARRIS	J. W. HARRIS

BASE TO HV BUSHING  
CENTRAL LINE

BASE TO LV BUSHING  
CENTRAL LINE

SHIPPING HEIGHT  
138.00

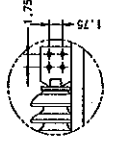
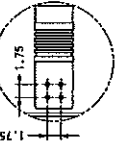
PROVISION FOR FUTURE  
SERVO MOTOR TUB CASE MONITOR

50.85 C OF RFLY  
ASSEMBLED

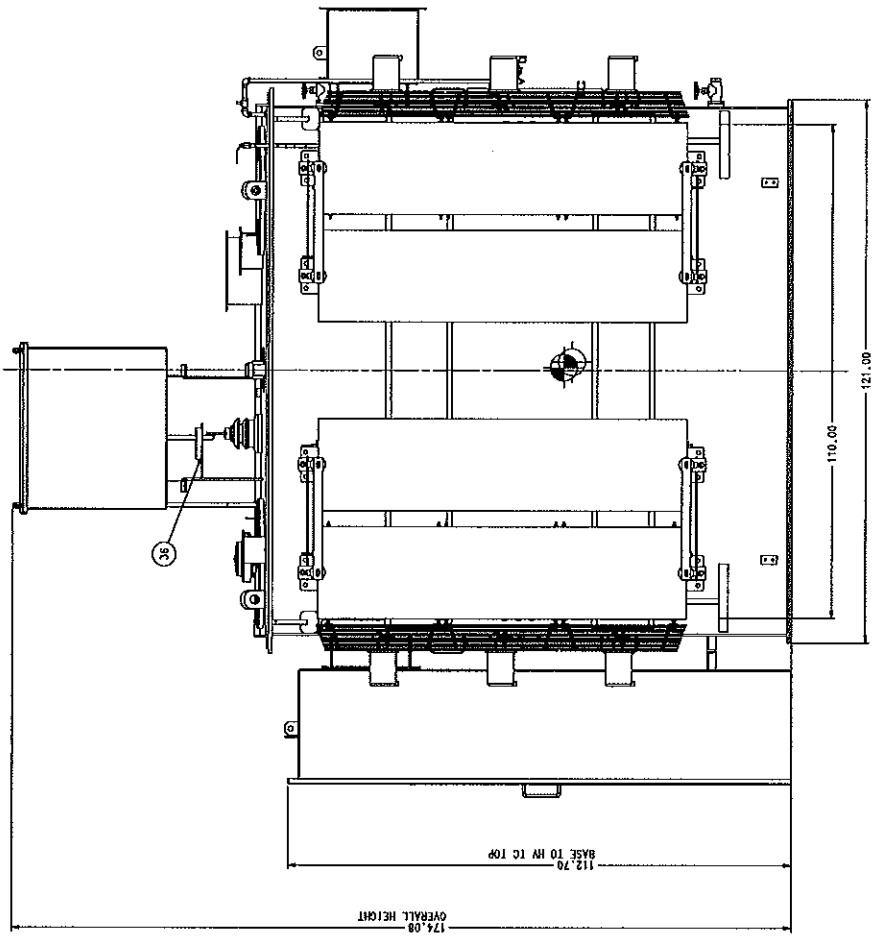
49.04 C OF SHIPPING

0.48 C OF RFLY  
C OF G ASSEMBLED

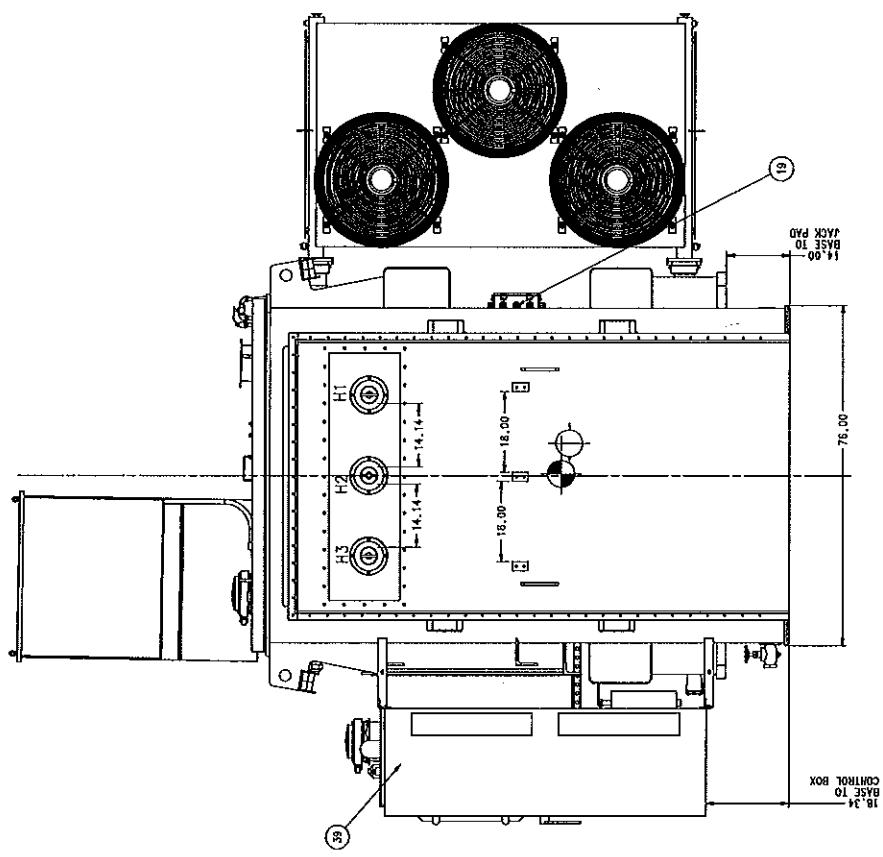
4.70 C OF G  
SHIPPING



	
U.S. ARMY CORPS OF ENGINEERS WASH. DC. 20315-5000	
PROJECT NO.	11-70-1000
DESIGN NO.	11-70-1000-10
DATE	11-70
BY	J. L. M.
CHECKED BY	J. L. M.
APPROVED BY	J. L. M.
SCALE	AS SHOWN
PROJECT TITLE	11-70-1000-10
DATE	11-70
BY	J. L. M.
CHECKED BY	J. L. M.
APPROVED BY	J. L. M.



SEGMENT 3



SEGMENT 4

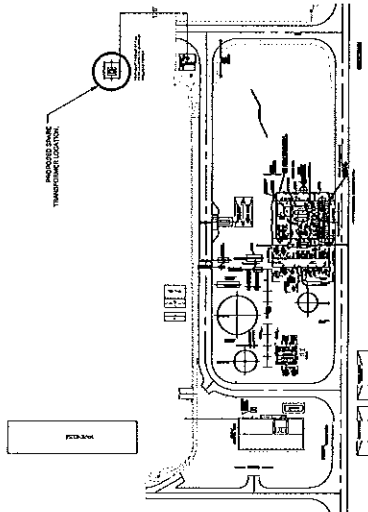


# GENESIS SOLAR LLC

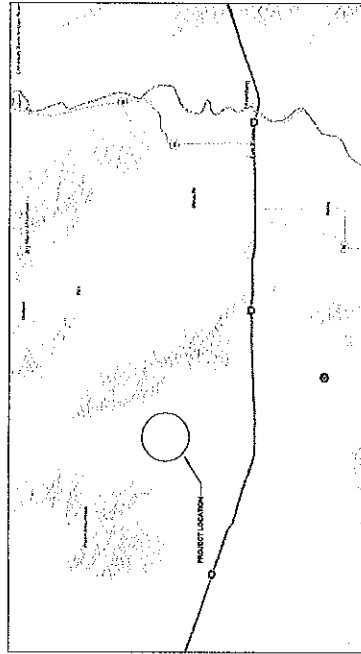
## SPARE TRANSFORMER SITE PREPARATION AND FOUNDATION

SGN-7209

11995 WILEY'S WELL ROAD  
BLYTHE, CALIFORNIA 92225



SITE/FACILITY PLAN  
NO SCALE



VICINITY MAP  
NO SCALE

**SCOPE OF WORK STATEMENT:**  
THIS DRAWING IS TO BE USED FOR THE PREPARATION OF THE SPARE TRANSFORMER AND CIRCUIT BREAKER PAD, DESIGN TRANSFORMER FOUNDATION AND CONCRETE.

**PROJECT ADDRESS:**

11995 WILEY'S WELL ROAD  
BLYTHE, CALIFORNIA 92225

**OWNER:**

GENESIS SOLAR LLC  
700 UNIVERSITY BLVD  
TULE FALLS, CALIFORNIA 95961  
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STRUCTURAL ENGINEER - BRIAN COTTRELL, PE  
ELECTRICAL ENGINEER - RICHARD SMITH, PE

**SHEET INDEX**

- T-1-0 PROJECT TITLE COVER SHEET
- T-1-1 GENERAL NOTES
- T-1-2 FOUNDATION PLAN
- T-1-3 FOUNDATION DETAILS
- T-1-4 DETAILS, SCHEDULES AND ONE LINE DIAGRAM
- T-1-5 SITE PLAN - ELECTRICAL

**APPLICABLE CODES**

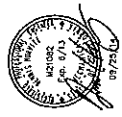
THE WORK SHOWN ON THESE DRAWINGS SHALL BE USED FOR CONSTRUCTION.  
APPLICABLE CODES:  
2013 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2  
2013 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24, PART 4  
2013 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24, PART 5  
2013 CALIFORNIA FIRE CODE, TITLE 24, PART 6

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**Dennis Hurvitz**

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Professional Engineers  
2000 S. UNIVERSITY BLVD.  
TULE FALLS, CALIFORNIA 95961  
TEL: (707) 941-1411  
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NO.	REMARKS	DATE



**DESERT ENGINEERS**  
DESIGN ENGINEERS  
11995 WILEY'S WELL ROAD  
BLYTHE, CA 92225  
TEL: (951) 858-9966  
WWW.DESERTENGINEERS.COM

**SPARE TRANSFORMER SITE PREPARATION**  
11995 WILEY'S WELL ROAD  
BLYTHE, CA 92225

DRAWN BY: \_\_\_\_\_  
DATE: 09/25/14  
SCALE: \_\_\_\_\_  
JOB NO. \_\_\_\_\_  
SHEET \_\_\_\_\_  
**T-1.0**  
OF \_\_\_\_\_ SHEETS

NO.	REMARKS	DATE

B.C. STRUCTURAL  
 BRAN GOTTLEB  
 CIVIL ENGINEER  
 630 545-4343  
 2345 14th Street  
 Palm Desert, CA 92211



DESERT ENGINEERS  
 CONSULTING ENGINEERS  
 7000 FARMERS ROAD, SUITE 100  
 PALM DESERT, CALIFORNIA 92260  
 760/341-1100  
 WWW.DESERTENGINEERS.COM

GENERAL NOTES  
 SPARE TRANSFORMER SITE PREPARATION  
 11995 Wilby's Well Road  
 Blythe, CA. 92225  
 DRAWN BY: SC  
 DATE: 09/11/14  
 SCALE: N.T.S.  
 JOB NO.: 800.1714  
 SHEET

1-S  
 SHEETS

**STRUCTURAL OBSERVATION**

STRUCTURAL OBSERVATION IS REQUIRED IN ACCORDANCE WITH SECTION 91.02 OF THE CALIFORNIA CIVIL CODE AND SECTION 170200 OF THE CALIFORNIA BUILDING CODE. THE OBSERVATION SHALL BE CONDUCTED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE CONTINUED THROUGHOUT THE CONSTRUCTION PROCESS.

ITEM	REQUIREMENT	REMARKS
1. SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION	YES	SEE SKILLS REPORT
2. STRUCTURAL CONCRETE OVER 2,500 PSI	YES	4500 PSI
3. HIGH STRENGTH BILLS	N/A	
4. EXPANSION / EPOXY ANCHORS	N/A	
5. STRUCTURAL MASONRY	N/A	
6. MOMENT FRAMES / CONNECTIONS	N/A	

SEE SHEET 3-11 FOR ADDITIONAL INFORMATION

**FIELD AND INSPECTION**

1. VERIFY ALL STRUCTURES AND MATERIALS FOR TESTS AND INSPECTIONS. VERIFY ALL MATERIALS FOR COMPLIANCE WITH THE BUILDING CODE.
2. SEE VALUES ON SHEET 3-11 FOR TEST AND INSPECTION REQUIREMENTS.
3. ALL FIELD TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE BUILDING CODE AND THE TEST METHOD SPECIFIED THEREIN. ALL TESTS SHALL BE CONDUCTED BY A LICENSED PROFESSIONAL ENGINEER OR A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER.
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**REVISIONS**

1. CONTINGENCY DESIGN DATA
2. SPECIAL LINES - NOT APPLICABLE
3. SPECIAL LINES - NOT APPLICABLE
4. REVISIONS AND COMMENTS REGARDING SPECIAL INSPECTIONS FOR SEISMIC

NOTE: THESE DRAWINGS ARE THE PROPERTY OF DESERT ENGINEERS AND SHALL BE KEPT IN THE OFFICE OF THE ENGINEER. NO PART OF THESE DRAWINGS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF DESERT ENGINEERS.

**REINFORCING STEEL**

REINFORCING STEEL SHALL BE SUPPLIED AND DELIVERED TO THE JOB SITE IN ACCORDANCE WITH THE BUILDING CODE AND THE TEST METHOD SPECIFIED THEREIN. ALL REINFORCING STEEL SHALL BE CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND THE TEST METHOD SPECIFIED THEREIN. ALL REINFORCING STEEL SHALL BE CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND THE TEST METHOD SPECIFIED THEREIN.

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**FORMWORK**

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NOTE: ALL NOTES ON THIS SHEET SHALL APPLY TO EACH SHEET OF THIS SET OF DRAWINGS.

**GENERAL NOTES**

GENERAL NOTES REGARDING THE CONSTRUCTION OF THE SPARE TRANSFORMER SITE PREPARATION. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE BUILDING CODE AND THE TEST METHOD SPECIFIED THEREIN. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE BUILDING CODE AND THE TEST METHOD SPECIFIED THEREIN.

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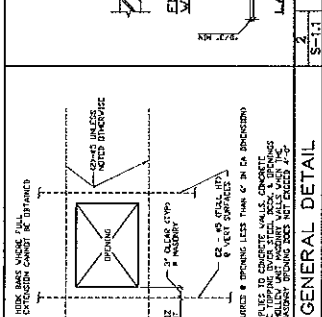
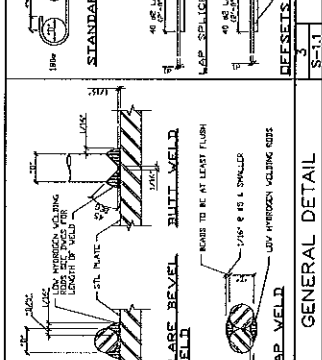
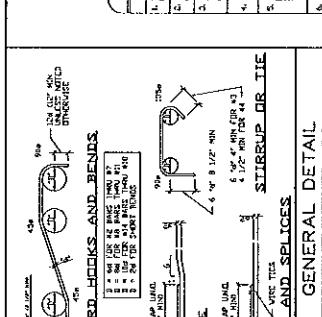
NOTE: ALL NOTES ON THIS SHEET SHALL APPLY TO EACH SHEET OF THIS SET OF DRAWINGS.



- REMARKS:**
- 1. ALL NOTES ON THIS SHEET SHALL APPLY TO EACH SHEET OF THIS SET OF STRUCTURAL DRAWINGS.

**TABLE 1.04: REQUIRE VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION**

VEGETATION AND INSPECTION	CONCRETE PREPARE	REINFORCED STEELWORK	REF. REFERENCE
1. VERIFICATION OF CONCRETE MIX PROPORTIONS AND TESTING METHODS	1. VERIFICATION OF REINFORCED STEELWORK	1. VERIFICATION OF REINFORCED STEELWORK	1.04
2. INSPECTION OF REINFORCED STEELWORK	2. INSPECTION OF REINFORCED STEELWORK	2. INSPECTION OF REINFORCED STEELWORK	1.04
3. INSPECTION OF REINFORCED STEELWORK	3. INSPECTION OF REINFORCED STEELWORK	3. INSPECTION OF REINFORCED STEELWORK	1.04
4. VERIFICATION OF REINFORCED STEELWORK	4. VERIFICATION OF REINFORCED STEELWORK	4. VERIFICATION OF REINFORCED STEELWORK	1.04



**REBAR SPICE AND EMBED LENGTH SCHEDULE**

COLUMN	BAR	MAX. SPICE LENGTH (IN)	MIN. EMBED LENGTH (IN)
1	4	12	18
2	6	12	18
3	8	12	18
4	10	12	18
5	12	12	18
6	14	12	18
7	16	12	18
8	18	12	18
9	20	12	18
10	22	12	18
11	24	12	18
12	26	12	18
13	28	12	18
14	30	12	18
15	32	12	18
16	34	12	18
17	36	12	18
18	38	12	18
19	40	12	18
20	42	12	18
21	44	12	18
22	46	12	18
23	48	12	18
24	50	12	18

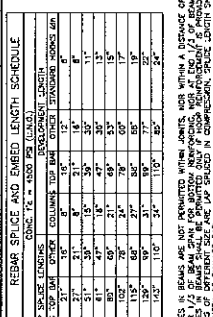
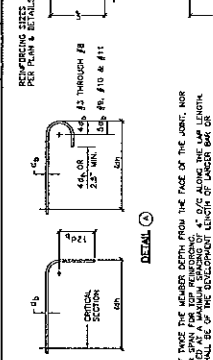
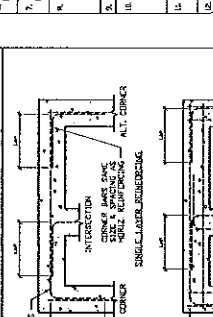
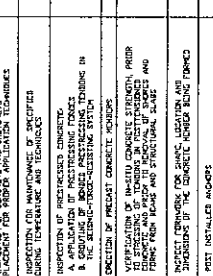
**GENERAL DETAIL**

1. REBAR SPICES SHALL BE LOCATED WITHIN JOINTS AND SHALL HAVE A MINIMUM OF 12" DEVELOPMENT LENGTH FROM THE FACE OF THE JOINT, UNLESS OTHERWISE NOTED.

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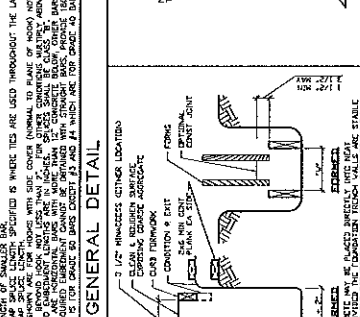
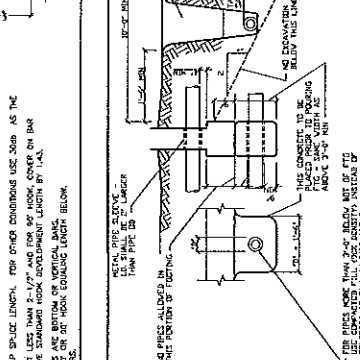
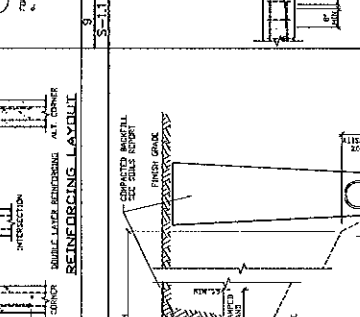
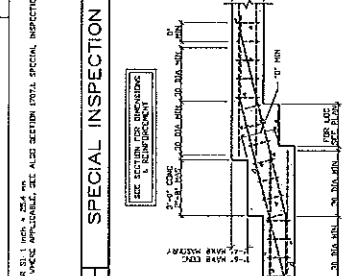
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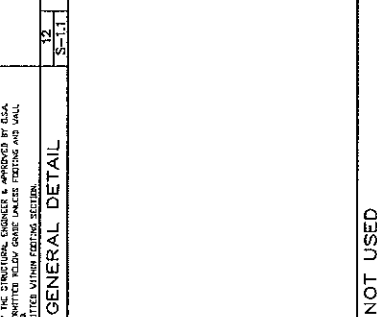
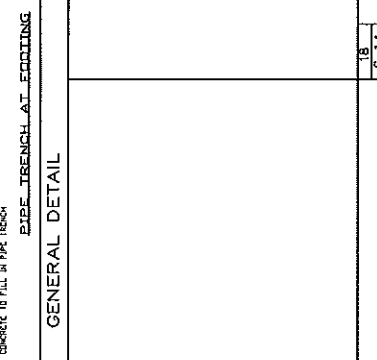
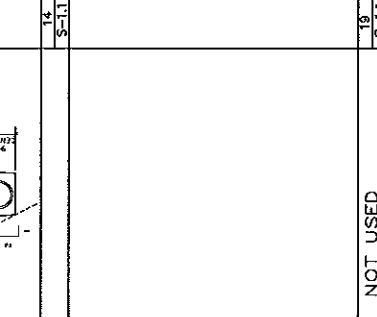
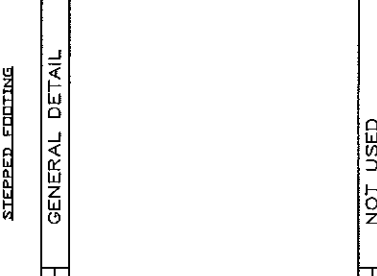
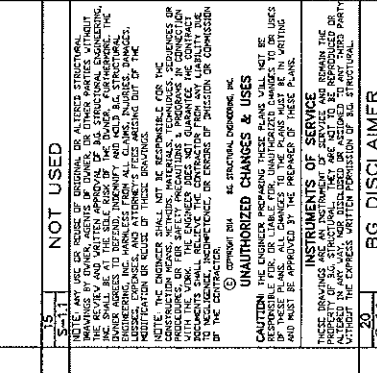
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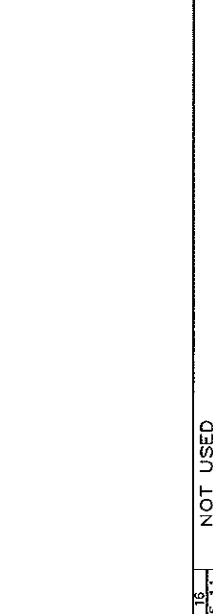
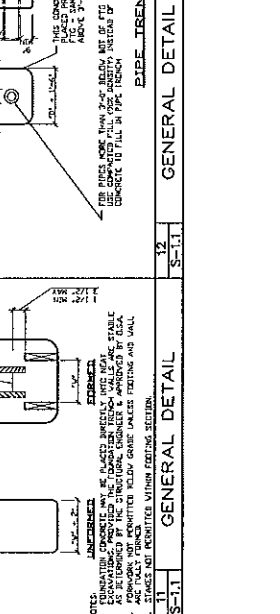
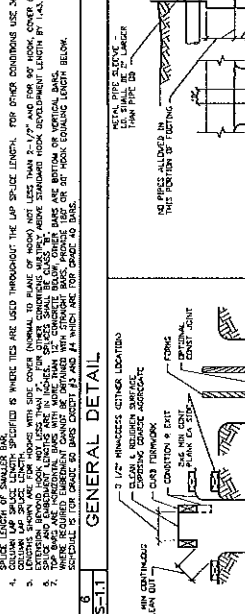
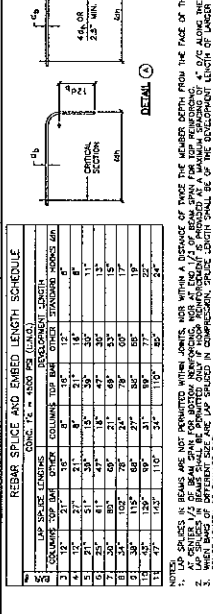
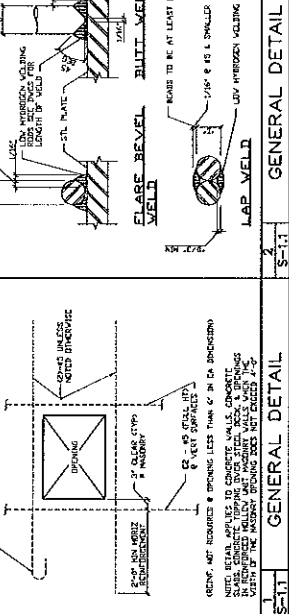
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**SPECIAL INSPECTION TABLE (CONCRETE)**

NO.	DESCRIPTION	REMARKS	STATUS	DATE	BY
14	GENERAL DETAIL		NOT USED		
15	GENERAL DETAIL		NOT USED		
16	GENERAL DETAIL		NOT USED		
17	GENERAL DETAIL		NOT USED		
18	GENERAL DETAIL		NOT USED		
19	GENERAL DETAIL		NOT USED		
20	GENERAL DETAIL		NOT USED		



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11	12	13	14	15
S-3.1	S-3.1	S-3.1	S-3.1	S-3.1
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED

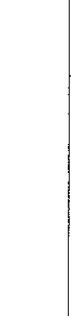
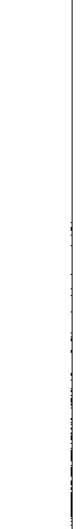
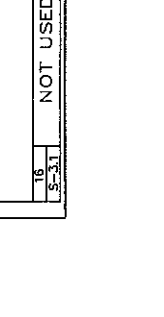
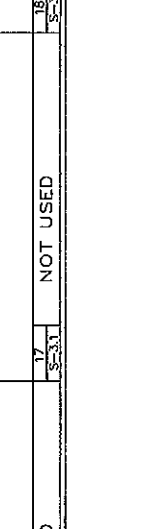
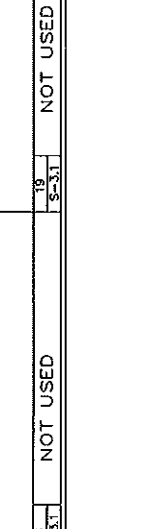
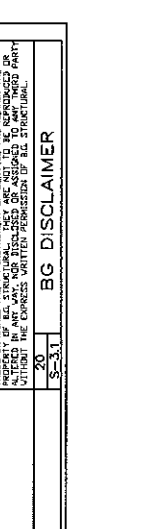
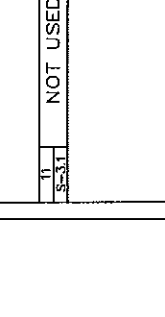
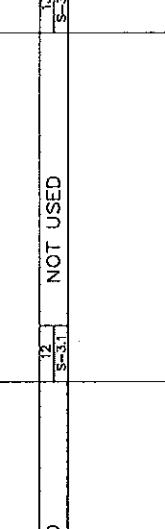
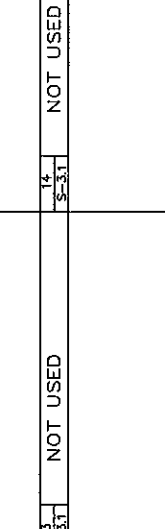
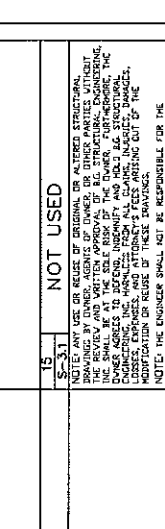
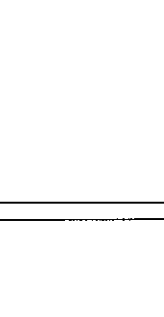
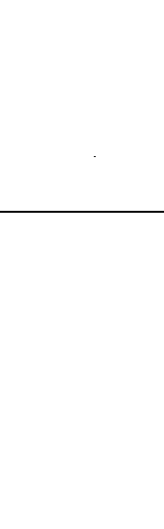
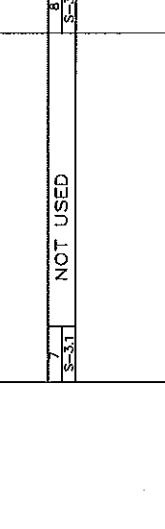
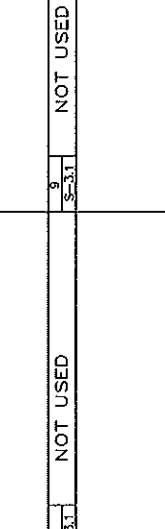
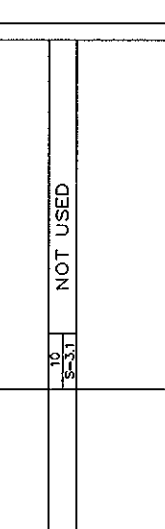
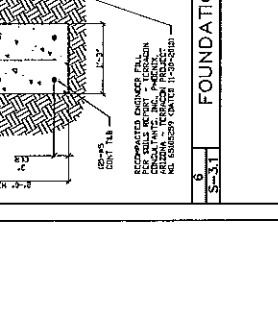
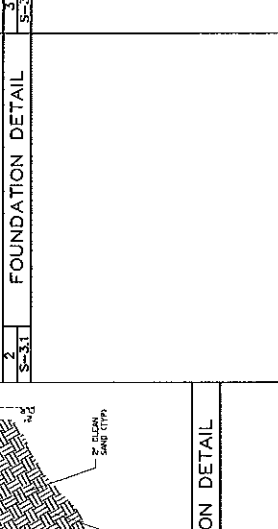
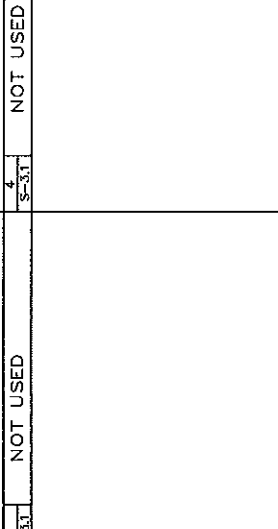
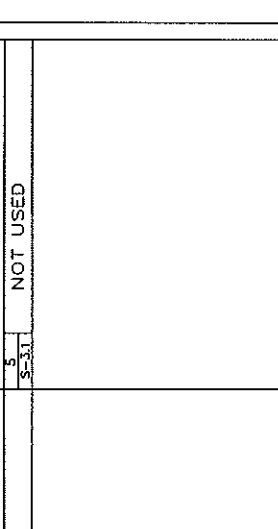
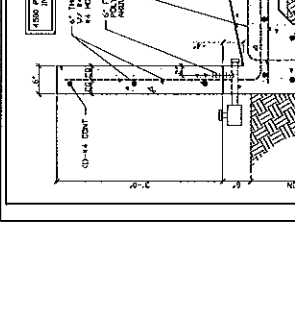
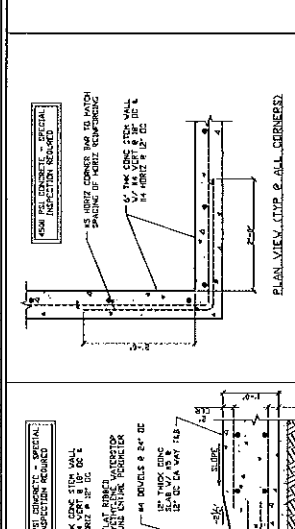
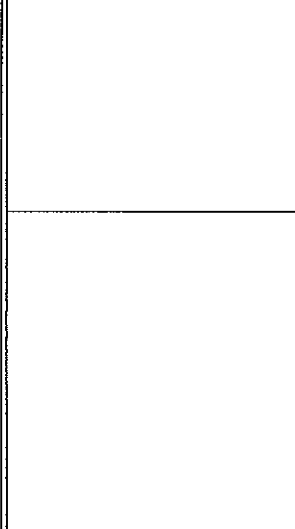
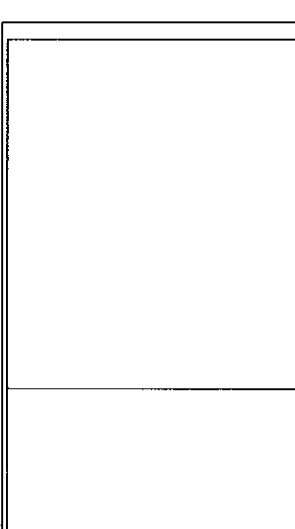
16	17	18	19	20
S-3.1	S-3.1	S-3.1	S-3.1	S-3.1
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED

2	3	4	5	6
S-3.1	S-3.1	S-3.1	S-3.1	S-3.1
FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL

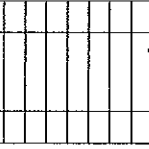
7	8	9	10	15
S-3.1	S-3.1	S-3.1	S-3.1	S-3.1
FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL

16	17	18	19	20
S-3.1	S-3.1	S-3.1	S-3.1	S-3.1
FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL	FOUNDATION DETAIL

UNAUTHORIZED CHANGES & USES  
 CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS BY ANY PARTY OTHER THAN THE ENGINEER AND/OR ARCHITECT AND MUST BE APPROVED BY THE ENGINEER OF THE ORIGINAL DESIGN.  
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NO.	REMARKS	DATE

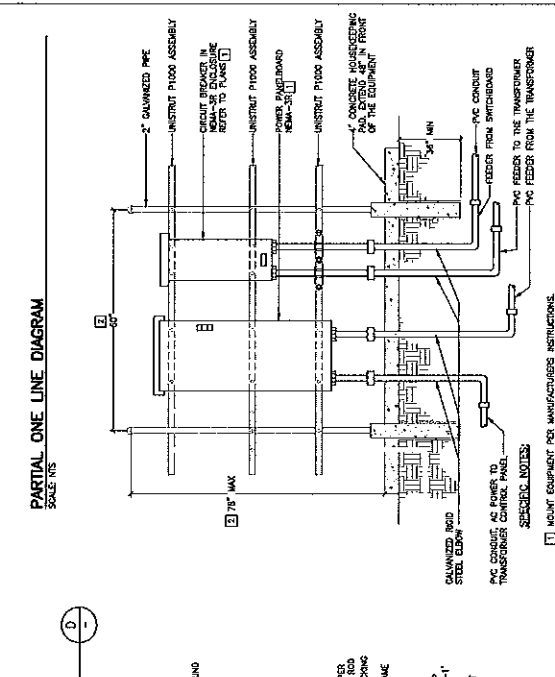
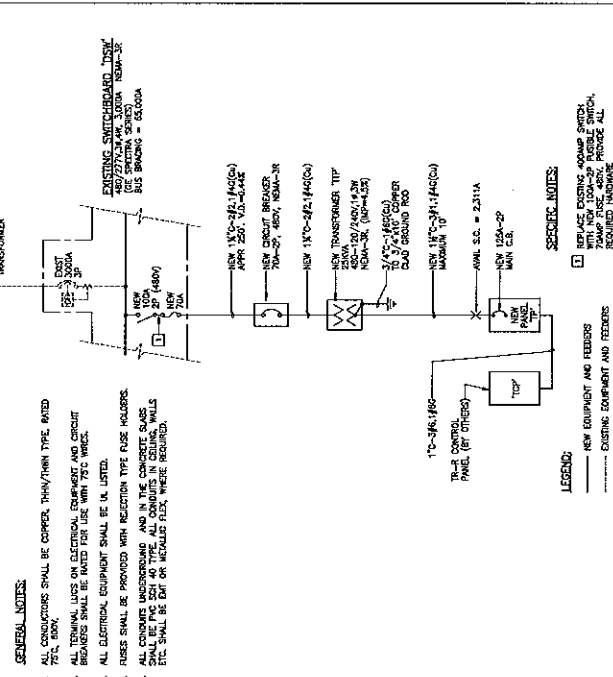


**DESERT ENGINEERS**  
 CONSULTING ENGINEERS  
 11995 WILLYS WAY, SUITE 209  
 BLYTHE, CA 92225  
 TEL: 951-781-1100  
 FAX: 951-781-1101  
 WWW.DESERTENGINERS.COM

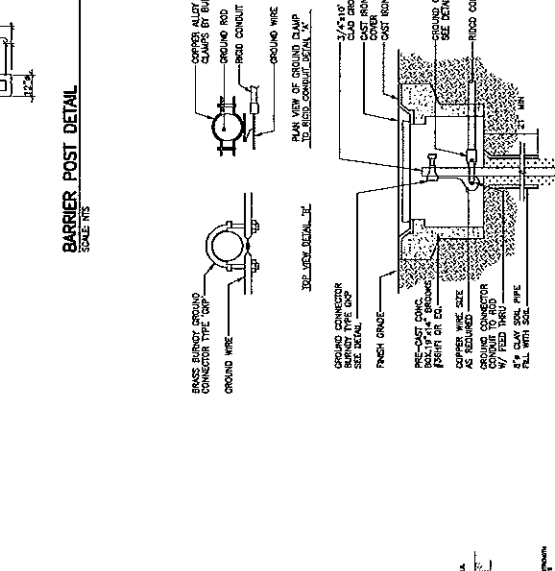
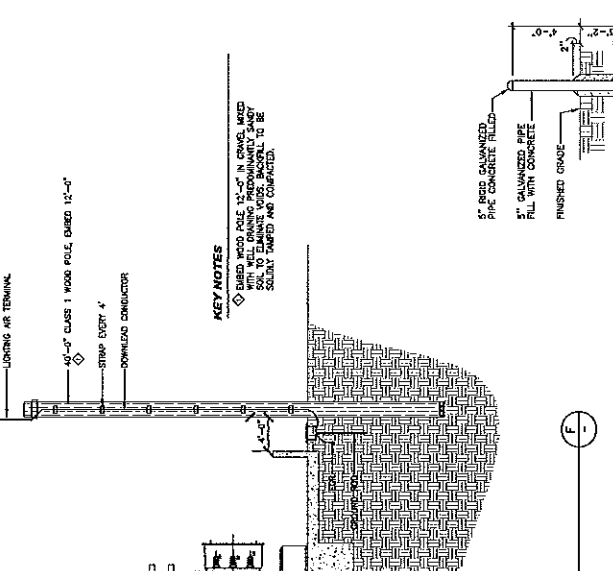
**SPARE TRANSFORMER SITE PREPARATION**  
 DETAILS, SCHEDULES AND ONE LINE DIAGRAM

DRAWN BY: [ ]  
 DATE: 10/10/14  
 SCALE:  
 JOB NO.  
 SHEET

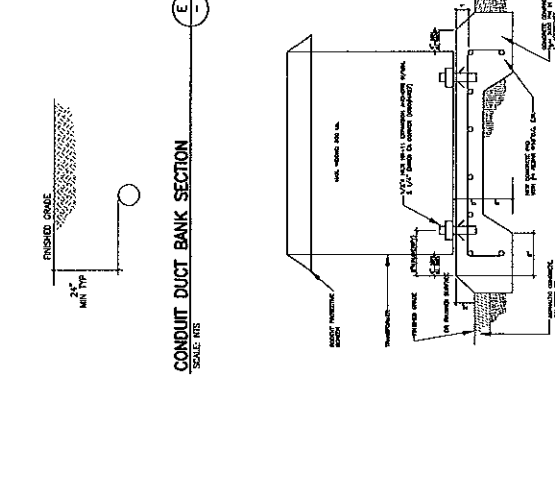
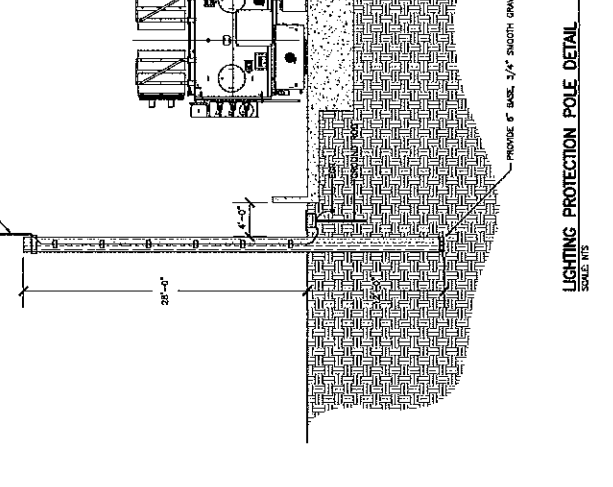
**E1.0**  
 OF SHEETS



**BOOST TRANSFORMER MOUNTING DETAIL**  
 SCALE: 1/8" = 1'-0"



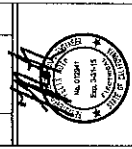
**CONDUIT DUCT BANK SECTION**  
 SCALE: 1/8" = 1'-0"



**PRE-CAST CONCRETE BOX AND GROUND ROD DETAIL**  
 SCALE: 1/8" = 1'-0"

NO# REMARKS DATE

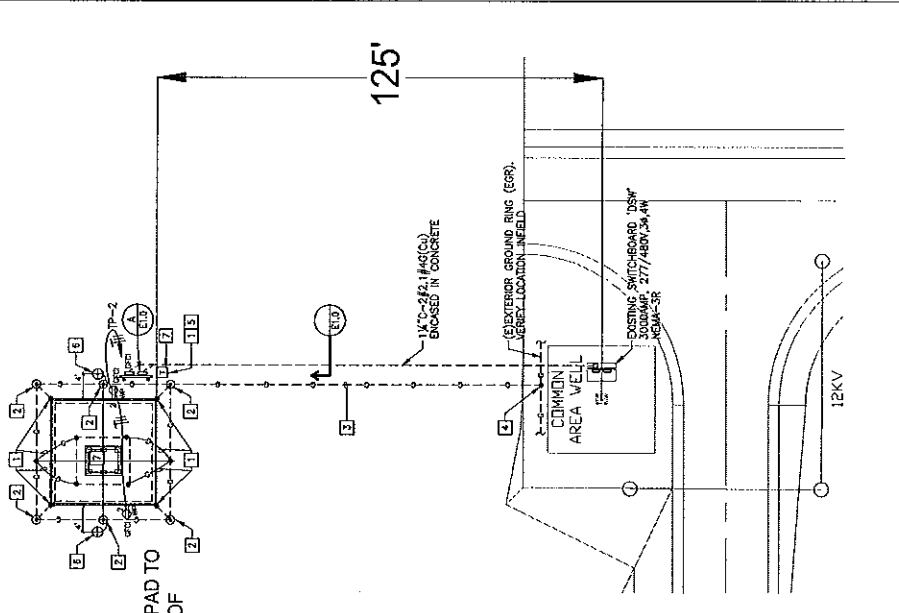
Table with 3 columns: NO#, REMARKS, DATE. It is currently empty.



DESERT ENGINEERS  
CONVERTING ENGINEERS  
11995 WILBY'S WELL ROAD  
BLYTHE, CA 92225  
TEL: 951-337-1100  
WWW.DESERTENGINEERS.COM

SITE PLAN  
SPARE TRANSFORMER SITE PREPARATION  
11995 Wilby's Well Road  
Blythe, CA 92225  
DRAWN BY: [Signature]  
DATE: 10/10/14  
SCALE: [Blank]  
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E1.1  
OF SHEETS



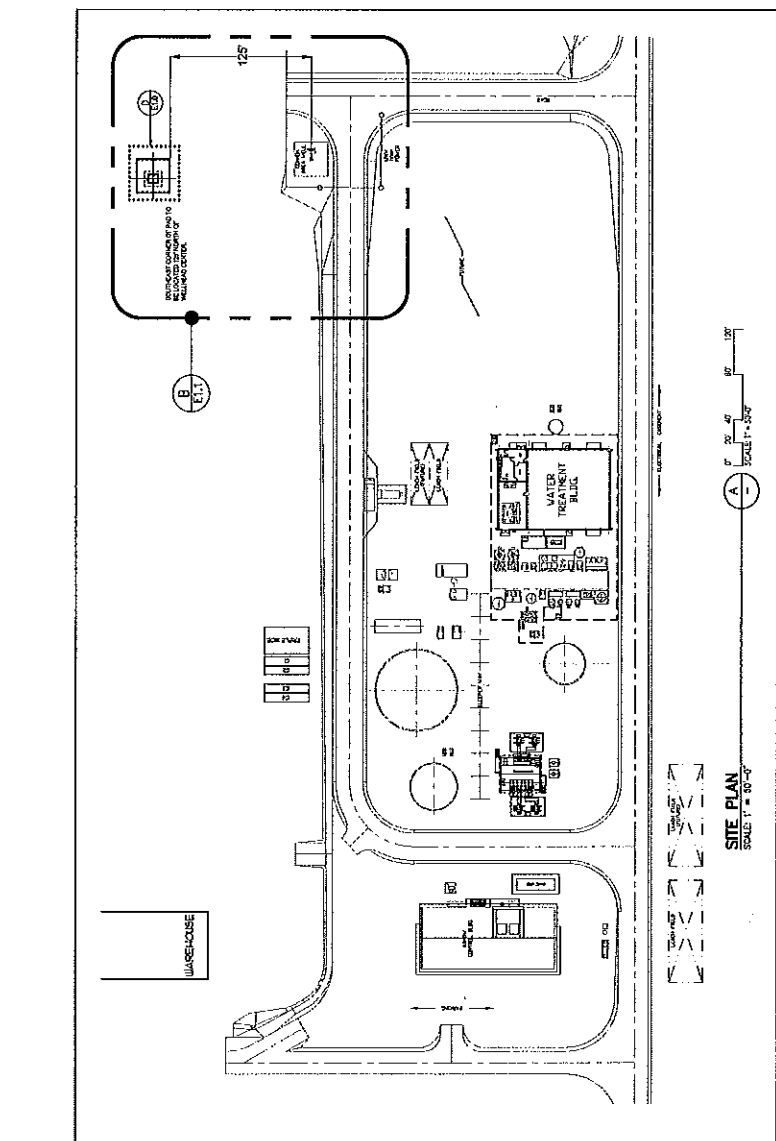
ENLARGED TRANSFORMER PLAN  
SCALE: 1" = 20'-0"

Panel Schedule Table for PANEL: TP-1 (NDB). Includes columns for Panel No., Description, Load, and Panel Notes. The table lists various electrical components and their associated loads.

SOUTHEAST CORNER OF PAD TO BE LOCATED 125' NORTH OF WELLHEAD CENTER.

- GENERAL NOTES FOR UNDERGROUND CONDUITS: 1. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER... 2. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER... 3. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER... 4. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER... 5. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER... 6. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER... 7. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER... 8. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER...

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SITE PLAN  
SCALE: 1" = 20'-0"

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