

INFORMATION HANDOUT

For Contract No. [10-0W3604](#)

At [Ama - 49 - 3.6](#)

Identified by

Project ID [1000020631](#)

MATERIALS INFORMATION

Water Source Information

[Installation Details for Battery Backup System](#)

Luong, Hongloan T@DOT

From: Lao, Allen@DOT
Sent: Monday, December 22, 2014 10:43 AM
To: Luong, Hongloan T@DOT
Subject: FW: Water availability (Caltrans Paving Project 2015)
Attachments: RE: Caltrans - Request for Non-Potable Water or Potable Water Source for Upcoming Construction Projects

FYI

Allen Lao

Project Engineer
Caltrans District 10
Design IV, Branch L
New # (209) 948-3888
New Location "Room 258"

From: Brandt Cook [<mailto:bcook@amadorwater.org>]
Sent: Friday, December 19, 2014 3:52 PM
To: Lao, Allen@DOT
Cc: Erik Christeson
Subject: RE: Water availability (Caltrans Paving Project 2015)

Allen,

AWA has both non-potable and potable water sources that may be available for any construction project on State Routes in Amador County. The awarded contractor would need to contact Amador Water Agency at (209) 223-3018 or visit the main office at 12800 Ridge Road, Sutter Creek, CA 95685 during working hours to fill out an application and obtain a hydrant meter.

I have attached the previous correspondence with Caltrans regarding this issue.

Sincerely,

Brandt Cook
Amador Water Agency
www.amadorwater.org (209) 223-3018
Direct: (209) 257-5206, Fax: (209) 257-5295
12800 Ridge Road, Sutter Creek, CA 95685

From: Lao, Allen@DOT [<mailto:allen.lao@dot.ca.gov>]
Sent: Friday, December 19, 2014 2:53 PM
To: Gene Mancebo
Cc: Pheng, Sinarath@DOT; Huerta, Jose A@DOT
Subject: Water availability (Caltrans Paving Project 2015)

Hello Gene,

I have a paving project which will be starting construction during the summer/fall of 2015. The estimated time to complete this project is 50 working days. This project begins in Martell and ends in Jackson which will require approximately 205,000 gallons of water. I'm aware that the area is under mandatory restrictions and I'm requesting a

water availability letter. Since our project requires over 100,000 gallons of water, Caltrans guidance requires the Contractor to use non-potable water. Please provide information whether there is non-potable water available.

Thank you,

Allen Lao

**Project Engineer
Caltrans District 10
Design IV, Branch L**

New # (209) 948-3888

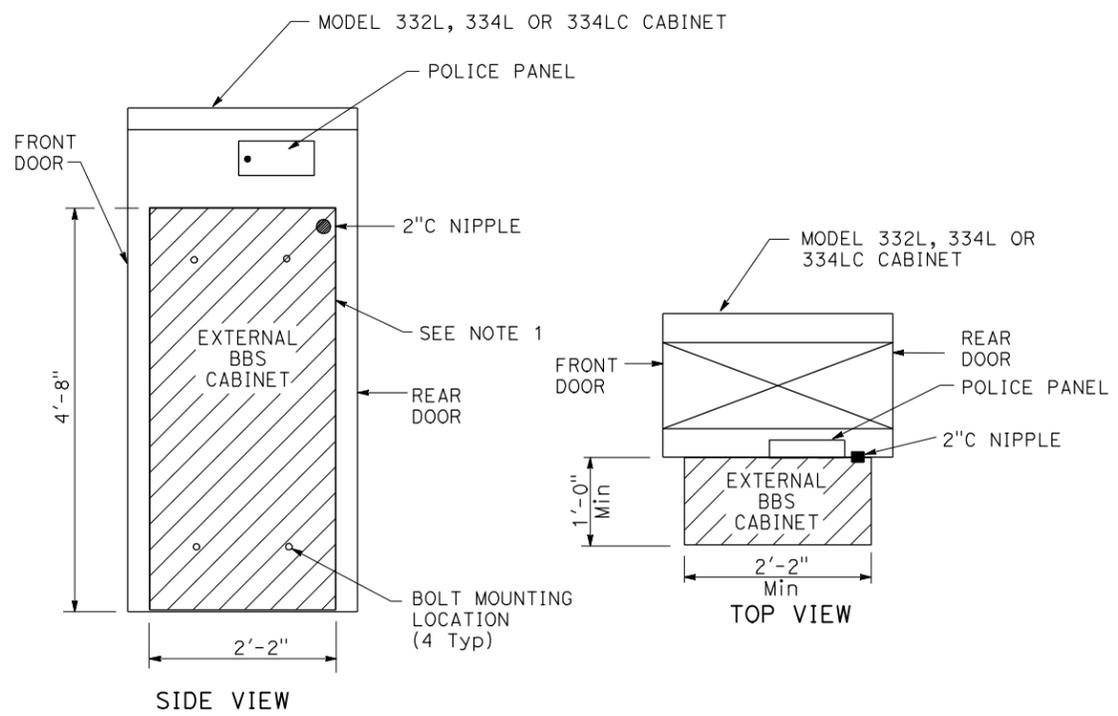
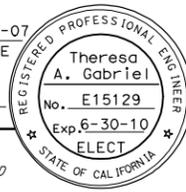
New Location "Room 258"

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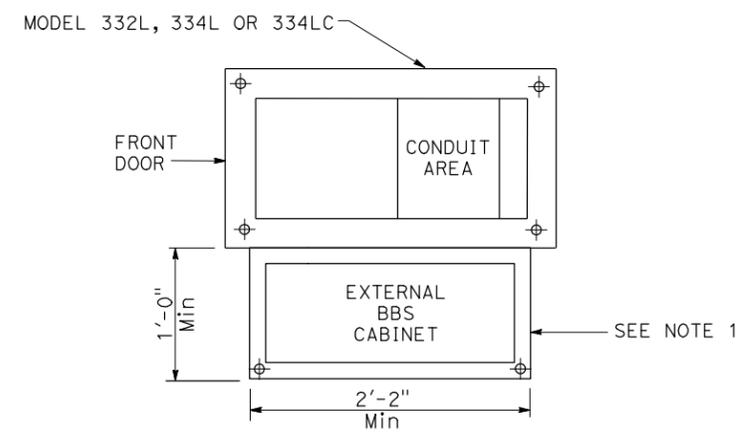
Thank You,

Amador Water Agency 12800 Ridge Road, Sutter Creek, California 95685 www.amadorwater.org

Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
Theresa Gabriel			12-20-07		
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



EXTERNAL BBS CABINET MOUNTED TO THE MODEL 332L, 334L OR 334LC CABINET

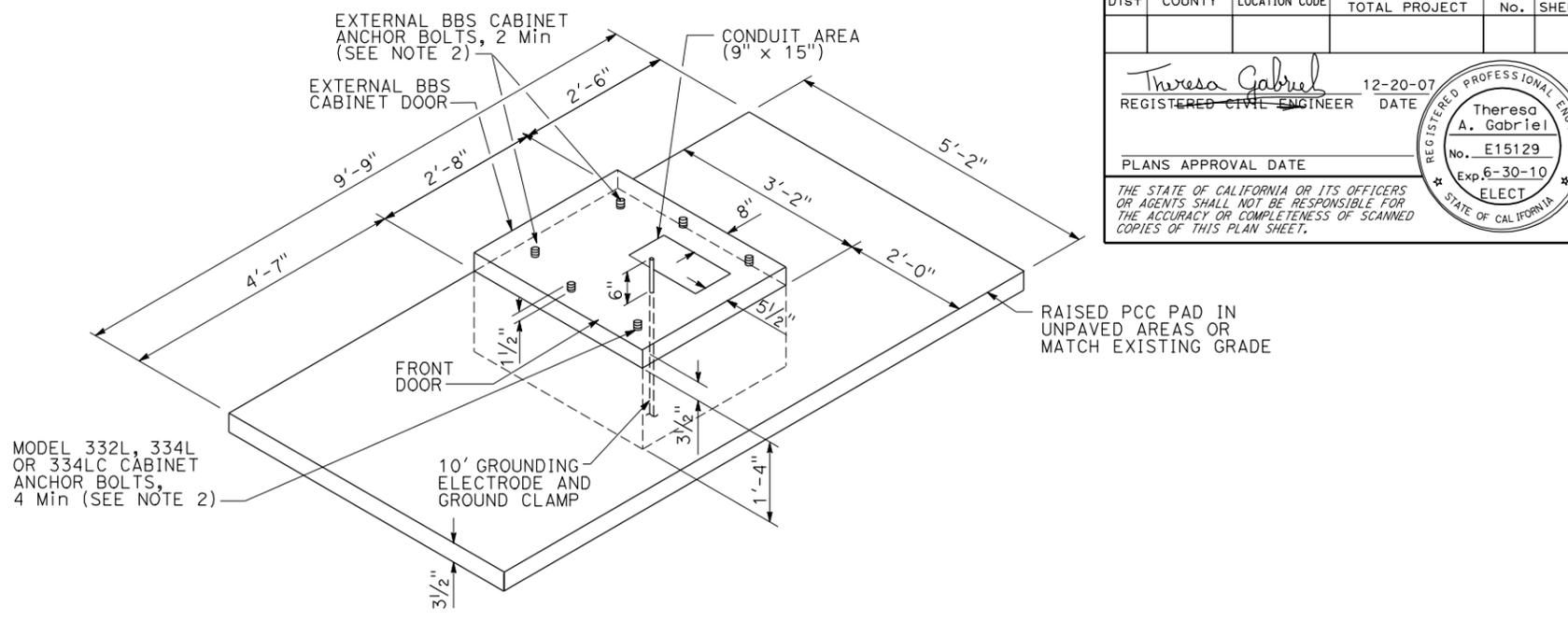


BASE PLAN FOR BBS MOUNTED TO THE MODEL 332L, 334L OR 334LC CABINET

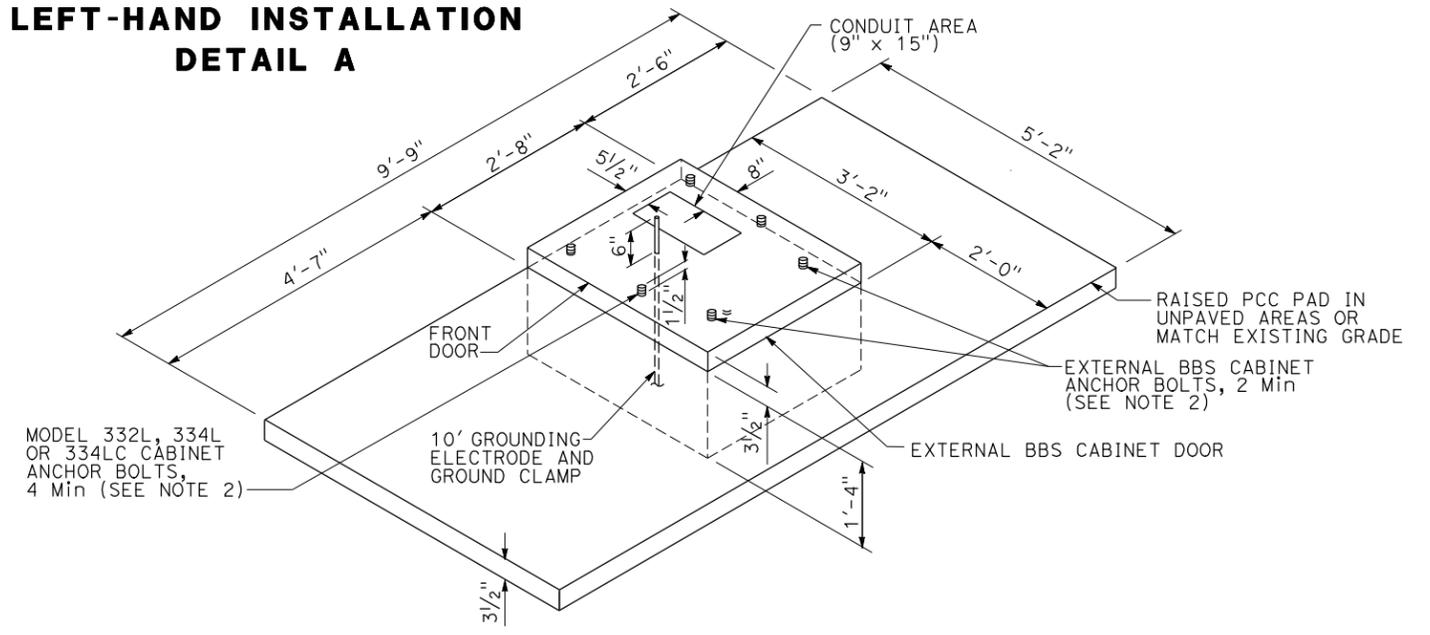
(FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE SHEET A6-1 TO A6-4, CABINET HOUSING DETAILS OF THE TRANSPORTATION ELECTRICAL EQUIPMENT SPECIFICATION (TEES))

NOTES: (THIS SHEET ONLY)

1. THE EXTERNAL BBS CABINET SHALL BE MOUNTED TO THE MODEL 332L, 334L OR 334LC CABINET WITH FOUR 18-8 STAINLESS STEEL Hex HEAD, FULLY-THREADED, 3/8"-16 x 1" BOLTS; TWO WASHERS PER BOLT, DESIGNED FOR 3/8" BOLTS AND ARE 18-8 STAINLESS STEEL, 1" OUTSIDE DIAMETER, ROUND, AND FLAT; AND ONE K-LOCK NUT PER BOLT THAT IS 18-8 STAINLESS STEEL AND A Hex-NUT. THE ENGINEER WILL HAVE TO APPROVE THE BOLT MOUNTING LOCATION PRIOR TO INSTALLATION.
2. THE ANCHOR BOLTS SHALL BE 3/4" Dia x 15" WITH A 2"-90° BEND. THE CABINET MANUFACTURER'S SPECIFICATION SHALL DETERMINE THE LOCATION OF THE ANCHOR BOLTS IN THE FOUNDATION. THE ENGINEER WILL HAVE TO APPROVE THE ANCHOR BOLTS AND ITS LOCATION IN THE FOUNDATION PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE BBS CABINET PRIOR TO CONSTRUCTING THE FOUNDATION OF THE Std MODEL 332L, 334L OR 334LC CABINET FOUNDATION. THE ENGINEER WILL HAVE TO APPROVE ANY NECESSARY DEVIATIONS PRIOR TO CONSTRUCTION.
4. ALL DIMENSIONS ARE NOMINAL.



LEFT-HAND INSTALLATION DETAIL A



RIGHT-HAND INSTALLATION DETAIL B

MODIFIED MODEL 332L, 334L OR 334LC CABINET FOUNDATION DETAIL FOR BATTERY BACKUP SYSTEM (BBS)
(FOR ADDITIONAL NOTES, SEE SHEET ES-3C OF THE STANDARD PLANS FOR MODEL 332L, 334L OR 334LC CABINETS)

ELECTRICAL SYSTEMS (BATTERY BACKUP SYSTEM FOUNDATION DETAILS)

NO SCALE

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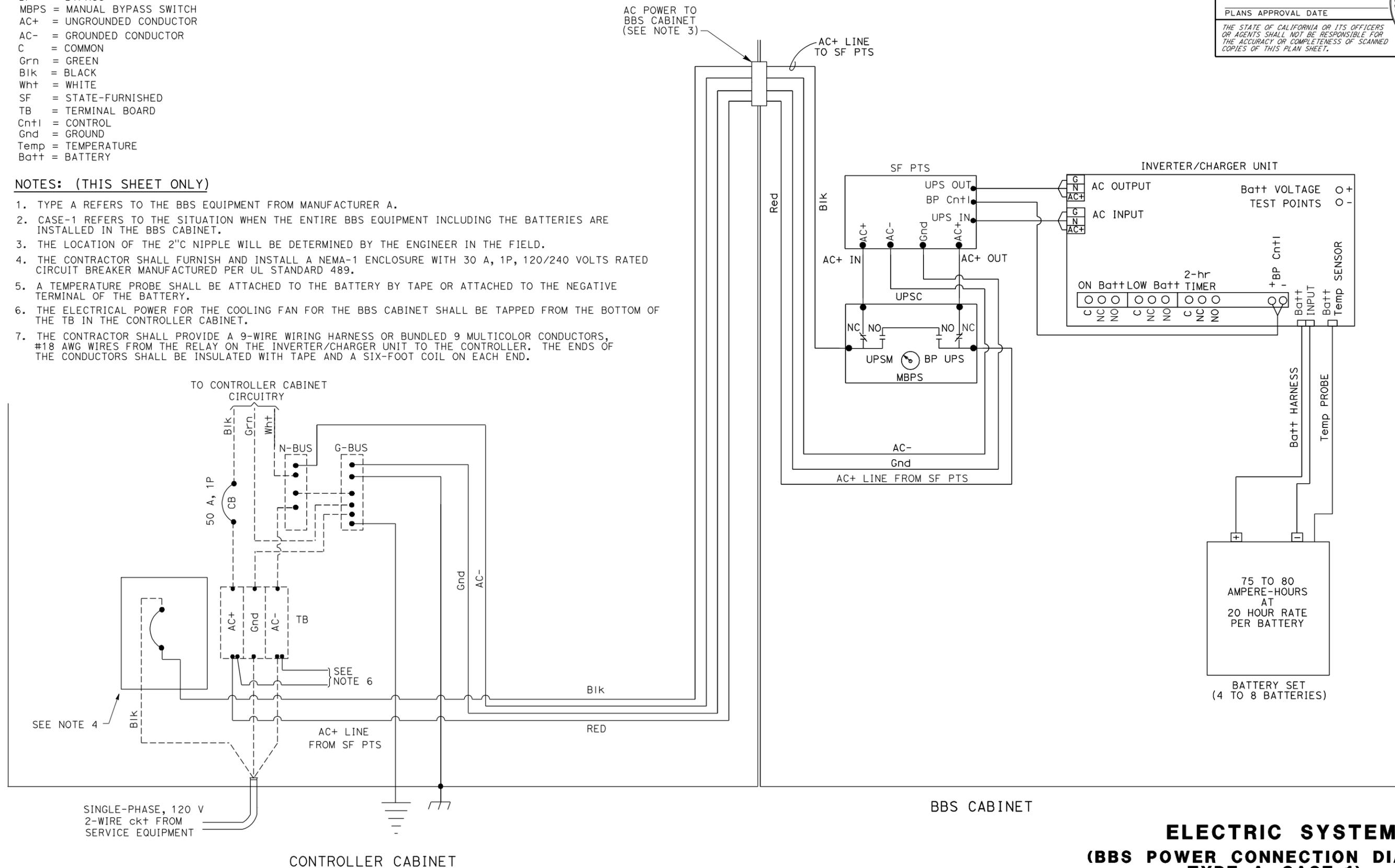
Dist	COUNTY	LOCATION CODE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
<i>Theresa Gabriel</i> REGISTERED CIVIL ENGINEER			12-20-07 DATE		
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ABBREVIATIONS: (THIS SHEET ONLY)

- PTS = POWER TRANSFER SWITCH
- UPS = UNINTERRUPTIBLE POWER SUPPLY
- UPSC = UNINTERRUPTIBLE POWER SUPPLY CONTROLLER
- UPSM = UPS MODE
- BP = BYPASS
- MBPS = MANUAL BYPASS SWITCH
- AC+ = UNGROUNDED CONDUCTOR
- AC- = GROUNDED CONDUCTOR
- C = COMMON
- Grn = GREEN
- Blk = BLACK
- Wh+ = WHITE
- SF = STATE-FURNISHED
- TB = TERMINAL BOARD
- Cn+I = CONTROL
- Gnd = GROUND
- Temp = TEMPERATURE
- Batt+ = BATTERY

NOTES: (THIS SHEET ONLY)

1. TYPE A REFERS TO THE BBS EQUIPMENT FROM MANUFACTURER A.
2. CASE-1 REFERS TO THE SITUATION WHEN THE ENTIRE BBS EQUIPMENT INCLUDING THE BATTERIES ARE INSTALLED IN THE BBS CABINET.
3. THE LOCATION OF THE 2" C NIPPLE WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEMA-1 ENCLOSURE WITH 30 A, 1P, 120/240 VOLTS RATED CIRCUIT BREAKER MANUFACTURED PER UL STANDARD 489.
5. A TEMPERATURE PROBE SHALL BE ATTACHED TO THE BATTERY BY TAPE OR ATTACHED TO THE NEGATIVE TERMINAL OF THE BATTERY.
6. THE ELECTRICAL POWER FOR THE COOLING FAN FOR THE BBS CABINET SHALL BE TAPPED FROM THE BOTTOM OF THE TB IN THE CONTROLLER CABINET.
7. THE CONTRACTOR SHALL PROVIDE A 9-WIRE WIRING HARNESS OR BUNDLED 9 MULTICOLOR CONDUCTORS, #18 AWG WIRES FROM THE RELAY ON THE INVERTER/CHARGER UNIT TO THE CONTROLLER. THE ENDS OF THE CONDUCTORS SHALL BE INSULATED WITH TAPE AND A SIX-FOOT COIL ON EACH END.



**ELECTRIC SYSTEM
(BBS POWER CONNECTION DIAGRAM,
TYPE A, CASE-1)**

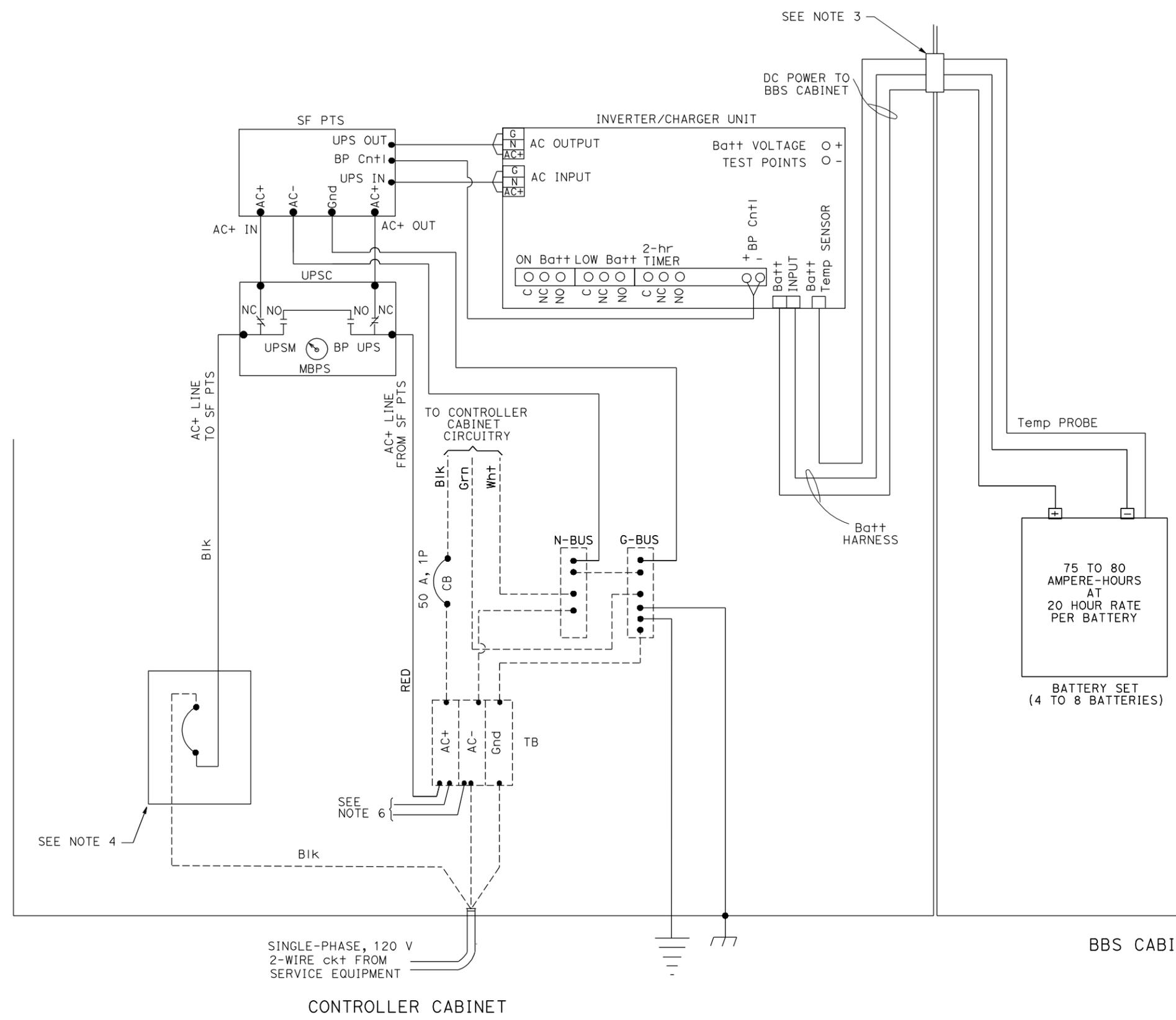
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- TB = TERMINAL BOARD
- Cntl = CONTROL
- Gnd = GROUND

NOTES: (THIS SHEET ONLY)

1. TYPE B REFERS TO THE BBS EQUIPMENT FROM MANUFACTURER B.
2. CASE-2 REFERS TO THE SITUATION WHEN ONLY THE BATTERIES ARE INSTALLED IN THE BBS CABINET. THE REMAINING EQUIPMENT IS PLACED IN THE CONTROLLER CABINET.
3. THE LOCATION OF THE 2" NIPPLE WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
4. THE CONTRACTOR SHALL FURNISH AND INSTALL A NEMA-1 ENCLOSURE WITH 30 A, 1P, 120/240 VOLTS RATED CIRCUIT BREAKER MANUFACTURED PER UL STANDARD 489.
5. A TEMPERATURE PROBE SHALL BE ATTACHED TO THE BATTERY BY TAPE OR ATTACHED TO THE NEGATIVE TERMINAL OF THE BATTERY.
6. THE ELECTRICAL POWER FOR THE COOLING FAN FOR THE BBS CABINET SHALL BE TAPPED FROM THE BOTTOM OF THE TB IN THE CONTROLLER CABINET.
7. THE CONTRACTOR SHALL PROVIDE A 9-WIRE WIRING HARNESS OR BUNDLED 9 MULTICOLOR CONDUCTORS, #18 AWG WIRES FROM THE RELAY ON THE INVERTER/CHARGER UNIT TO THE CONTROLLER. THE ENDS OF THE CONDUCTORS SHALL BE INSULATED WITH TAPE AND A SIX-FOOT COIL ON EACH END.



**ELECTRICAL SYSTEMS
(BBS POWER CONNECTION DIAGRAM,
TYPE A, CASE-2)**

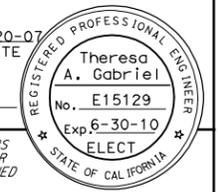
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DATE PLOTTED => 05-JUN-2012
 TIME PLOTTED => 09:00
 LAST REVISION
 2-2-09

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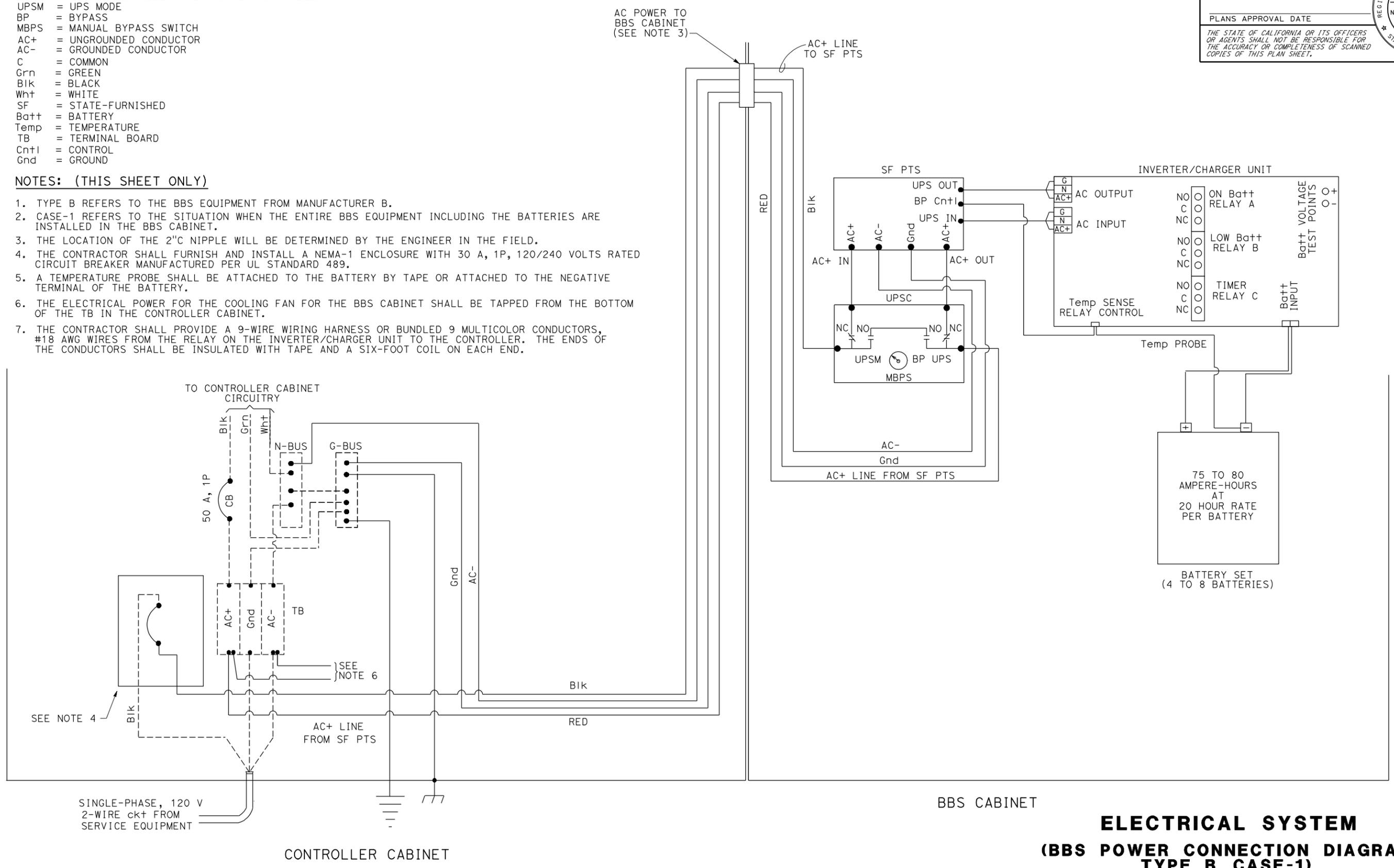


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**ELECTRICAL SYSTEM
(BBS POWER CONNECTION DIAGRAM, TYPE B, CASE-1)**

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