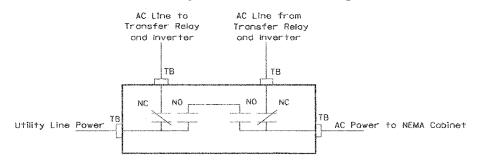
(a) Manual Bypass Switch (typical)



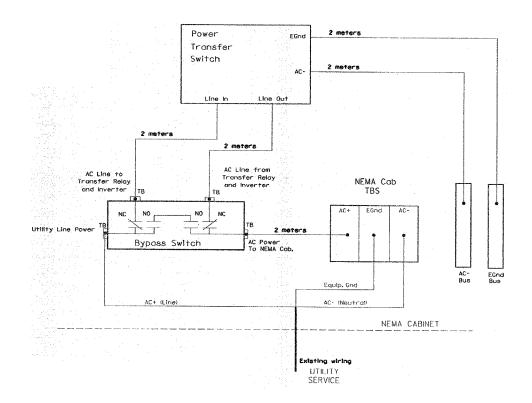
:ks

ill all toggle simultaneously wally operated switch. h shall only switch line. nt Ground are not switched ted to NEMA Cabinet buses.

0	n Bat	t	L	.ow Ba	† †		Timer		В	BS Fall		
0	0	0	0	0	0	0	0	0	0	0	0	Terminal Block
NO	C	NC.	NO	C.	NC.	NO	C	NC	NO	r	NC	•

Notes:
1. NO/NC contracts may either share or use separate commons.

MANUAL BYPASS SWITCH RELAY CONTACTS



UTILITY POWER CONNECTION DIAGRAM

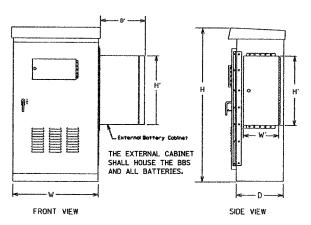
Inverter/Charger Batteries SPDT NO/NC contact closures - Energized whenever System is running on botteries SPDT NO/NC contact closures - Energized whenever System is running on batteries and there is less than 40% battery capacity remaining Transfer Relay may be internal Transfer to the inverter Relay SPDT NO/NC contact closures - Energized whenever inverter/charger falls, battery falls or battery completely discharges

Manual Bypass

Switch

BLOCK DIAGRAM

AC Line Power to Cabinet



NEMA Standard TS 2 Sheet Aluminum Unpointed Cabinets

Mounting & Use	Cobinet Type & Size	Helight H/H' Inch	AlGtu	Depth Depth	
• Wall Mounted	Type I/ Size I	26	17	15	
Housing Batteries	Type II/ Size 2	30	18	15	
Pad Mounted	Type III/ Size 5	40	24	17	
Housing	Type IV / Size 6	55	44	26	
Signal Devices	Type V / Size 7	77	44	26	

Police Compartment not provided.

Utility Line Power

Manual Bypass Switch will be

external to inverter/Charger and Transfer Relay

TOP VIEW

Type IV

or Type V

NEMA

Cabinet

CABINET NOTES

- 1. THE BOTTOM OF THE EXTERNAL BBS CABINET SHALL BE PLACED ON THE OUTER EDGE OF THE CABINET FOUNDATION FOR SUPPORT.
- THE OUTER EDGE OF THE CABINET FOUNDATION FOR SUFFORT.

 THE EXTERNAL BBS CABINET SHALL BE SECURELY FASTENED TO THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET IN A METHOD THAT IS APPROVED BY THE ENGINEER.

 THE MANUAL BYPASS SWITCH SHALL BE MOUNTED IN THE EXISTING
- TRAFFIC SIGNAL CABINET.
 4. ALL OTHER BATTERY BACKUP SYSTEM COMPONENTS SHALL BE
- 4. ALL UTHER BATTERT BACKUP SISTEM COMPUNENTS SHALL DE INSTALLED IN THE EXTERNAL BBS CABINET. 5. THE EXTERNAL BBS CABINET MAY REQUIRE AN EQUIPMENT STAND FOR ADDITIONAL GROUND LEVEL SUPPORT. THE COST FOR THE EQUIPMENT STAND SHALL BE INCLUDED IN THE BID PRICE FOR THE BBS SYSTEM.

REVISION	S		05 70 44460074747464
NAME	DATE	ILLINOIS DEPARTMENT	OF TRANSPORTATION
CABINET DETAIL	1/16/04		
		I-74 PROJECT STAN	DARD 857003-174
		DATTEDY DACK	UD CYCTEM
		BATTERY BACK	OP STSTEM
			DRAWN BY
		DATE 8/25/03	CHECKED BY

TOTAL SHEET SHEETS NO. 1366 682

COUNTY

TO STA. FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT

F.A._. RTE.

SECTION

CABINET DETAIL