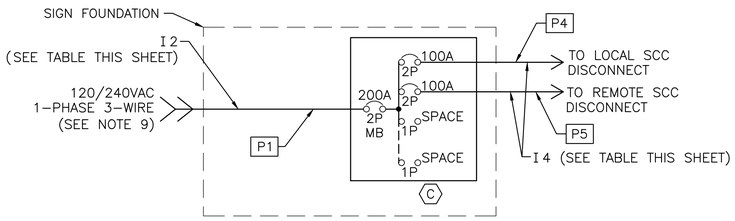


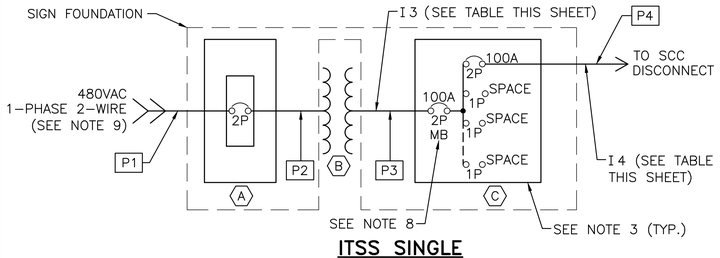
ITSS SINGLE
120/240VAC POWER SOURCE

(NOT TO SCALE)



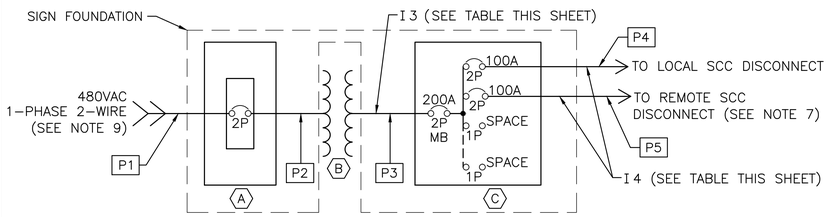
ITSS DOUBLE
120/240VAC POWER SOURCE

(NOT TO SCALE)



ITSS SINGLE
480VAC POWER SOURCE

(NOT TO SCALE)



ITSS DOUBLE
480VAC POWER SOURCE

(NOT TO SCALE)

POWER DISTRIBUTION ONE–LINE DIAGRAMS

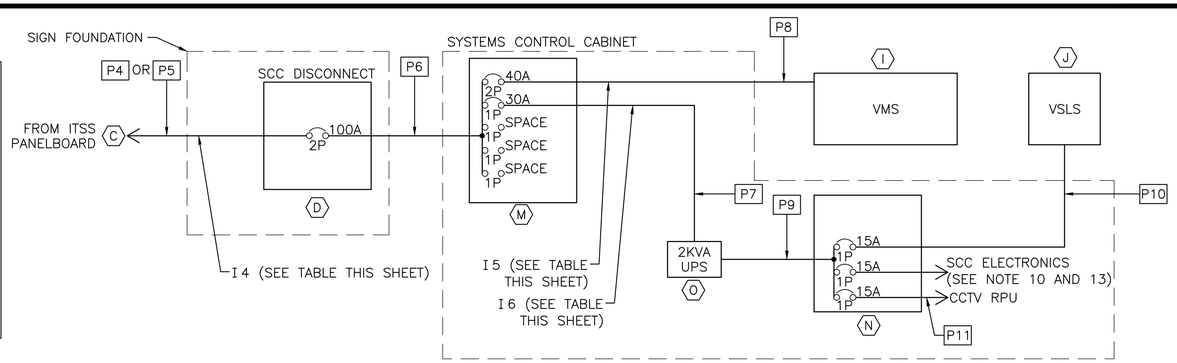
Ⓜ SCC PANELBOARD DESIGN LOAD (VA)*			
	LEG A	LEG B	TOTAL
VMS	6667	4445	11112
UPS	–	2222	2222
SPARE	2933	2933	5866
TOTAL	9600	9600	19200

Ⓐ ITSS DISCONNECT*	
POWER DISTRIBUTION FOR:	MAIN CIRCUIT BREAKER AMPERAGE
ITSS SINGLE 120/240VAC	100A
ITSS DOUBLE 120/240VAC	200A
ITSS 480VAC	100A

DESIGN CURRENT (A)*					
I 1	I 2	I 3	I 4	I 5	I 6
80	156	SINGLE ITSS – 80 DOUBLE ITSS – 156	56	25	15

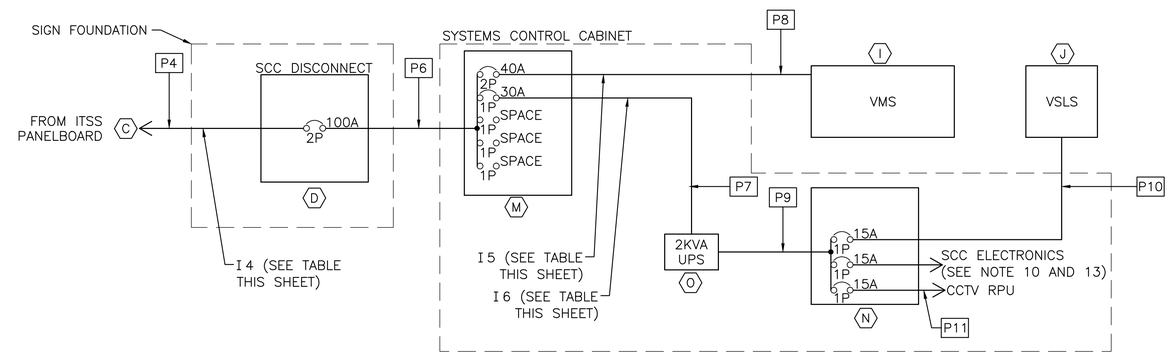
*SEE NOTE 2

POWER DESIGN VALUES
(SEE NOTE 12)



ITSS ONE–LINE DIAGRAM
BARRIER MOUNTED SCC

(FOR USE ON INNER ROADWAY INSTALLATIONS)



ITSS ONE–LINE DIAGRAM
GROUND MOUNTED SCC

(FOR USE ON OUTER ROADWAY AND STAND ALONE STRUCTURE INSTALLATIONS)

NOTES:

1. FOR LEGEND, ABBREVIATIONS, CABLE AND CONDUIT SCHEDULES SEE STANDARD DRAWING ITS–01 AND ITS–02
2. EQUIPMENT SPECIFICATIONS, WIRE SIZES, CURRENT VALUES, AND LOAD VALUES SHOWN SHALL BE USED UNLESS OTHERWISE SUPERSEDED BY THE CONTRACT PLANS. SEE THE CONTRACT PLANS FOR LOCATIONS OF EQUIPMENT AND ROUTING OF CONDUIT.
3. FOR PANEL SCHEDULE SEE THE CONTRACT PLANS.
4. JUNCTION BOXES AND CONDUIT SHALL BE INSTALLED AS REQUIRED ON THE CONTRACT PLANS FOR ITSS POWER DISTRIBUTION.
5. GROUNDING NOT SHOWN BUT SHALL BE INSTALLED ACCORDING TO ARTICLE 250 OF THE NEC.
6. SEE ITSS INSTALLATION DETAILS FOR INFORMATION ON CONDUITS AND CABLES AS WELL AS EQUIPMENT SHOWN ON THIS SHEET.
7. ADDITONAL BREAKERS SHALL BE INSTALLED TO POWER ADDITIONAL SCCS AS REQUIRED IN THE PLANS.
8. WHEN A SINGLE ITSS IS INSTALLED WITH 480V SERVICE, A 100A MAIN BREAKER SHALL BE INSTALLED IN THE ITSS PANELBOARD, UNLESS DIRECTED OTHERWISE ON THE CONTRACT PLANS OR BY THE ENGINEER.
9. POWER SOURCE, SUCH AS A METER CABINET, LOAD CENTER, AND/OR OTHER EQUIPMENT SHALL BE AS SHOWN ON THE CONTRACT PLANS.
10. FOR DETAILS ON THE TYPE OF ELECTRONIC EQUIPMENT INSTALLED IN THE SCC SEE STANDARD DRAWING ITS–22.
11. SEE STANDARD DRAWING ITS–31 FOR COMMUNICATION DIAGRAM.
12. CURRENT AND LOAD VALUES PROVIDED FOR USE IN DESIGN. ALL WIRES SHALL BE SIZED TO ACCOMODATE A 3% MAXIMUM VOLTAGE DROP. FOR 120/240 VOLT DISTRIBUTION, VOLTAGE DROP SHALL BE PERFORMED AT 120 VOLTS, ASSUMING FULL DESIGN CURRENT RETURNING ON THE NEUTRAL CONDUCTOR.
13. REFER TO PLANS FOR LOCATION AND QUANTITY OF CCTV REQUIRED.

	BY	DATE
MADE	EMG	08/2010
TRACED	MDC	08/2010
CHECKED	EMG	08/2010
SUPERVISED	ALB	08/2010

0 ½ 1 2 3 4

ORIGINAL SIZE IN INCHES

APP.	NO.	DATE	REVISION
	C	10/2013	CONFORMED DRAWING

NEW JERSEY TURNPIKE AUTHORITY

NEW JERSEY TURNPIKE

ITSS POWER DISTRIBUTION DIAGRAMS

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ANTHONY L. BARTELLO
New Jersey Professional Engineer License No. GE 45842

STANDARD DRAWING ITS–30

ACAD FILE NAME: NJTA–SD ITS–30.dwg Layout: .Layout1

CONTRACT NO. SHEET NO. OF

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