POWER CABLES

DESIGNATION	CABLES (SEE NOTES)	FROM	TO
P1	(SEE NOTE 4)	METER CABINET	ITSS DISCONNECT\ITSS PANELBORD
P2	(2) #2 AWG + #4 AWG GND	ITSS DISCONNECT	ITSS TRANSFORMER
P3	(3) #3/0 AWG + #4 AWG GND	ITSS TRANSFORMER	ITSS PANELBOARD
P4	(3) #2 AWG + #4 AWG GND	ITSS PANELBOARD	SCC DISCONNECT
P5	(3) #2 AWG + #4 AWG GND	ITSS PANELBOARD	SCC DISCONNECT
P6	(3) #2 AWG + #4 AWG GND	SCC DISCONNECT	SCC PANELBOARD
P7	(2) #12 AWG + #12 AWG GND	SCC PANELBOARD	UPS
P8	(3) #4 AWG + #6 AWG GND	SCC PANELBOARD	VMS
P9	(2) #12 AWG + #12 AWG GND	UPS	UPS PANELBOARD
P10	(2) #10 AWG + #10 AWG GND	UPS PANELBOARD	VSLS
P11	(2) #14 AWG + #14 AWG GND	UPS PANELBOARD	CCTV REMOTE POWER UNIT
P12	BELDEN 582015 (OAE) CCTV LOW VOLTAGE CABLE ⚠1	REMOTE POWER UNIT	CCTV CAMERA
P13	#4 AWG GREEN INSULATED GND	VARIES	SCC (GND ROD)

COMMUNICATIONS CABLES

DESIGNATION	CABLES (SEE NOTES)	FROM	TO
C1	(1) 4 TWISTED PAIR #24 AWG (OUTDOOR NETWORK CABLE)	SCC	WAP
C2	(1) 6–FIBER OPTIC MULTIMODE CABLE, 62.5 MICRON	SCC	VMS
C3	(1) 6–FIBER OPTIC MULTIMODE CABLE, 62.5 MICRON	SCC	VSLS
C4	(1) 6–FIBER OPTIC MULTIMODE CABLE, 50 MICRON	SCC	VMS
C5	(1) 6–FIBER OPTIC MULTIMODE CABLE, 50 MICRON	SCC	VSLS
C6	(1) 4 TWISTED PAIR #24 AWG (OUTDOOR NETWORK CABLE)	VIDEO ENCODER (ANALOG CAMERA) NETWORK SWITCH (DIGITAL CAMERA)	CCTV CAMERA
C7	(1) 12–FIBER OPTIC CABLE	SCC	SCC
C8	(1) 12–FIBER OPTIC CABLE	ITSF MANHOLE	SCC
C9	NOT USED		
C10	NOT USED ⚠1	⚠1	⚠1
C11	(1) 4 TWISTED PAIR #24 AWG (OUTDOOR NETWORK CABLE)	SCC	END NODE RADIO
C12	(1) 6–FIBER OPTIC MULTIMODE CABLE	SCC	POLE MOUNTED ITS ENCLOSURE
C13	(1) FIBER OPTIC MULTIMODE PATCH CORD	(VARIES)	NETWORK SWITCH
C14	NOT USED		
C15	NOT USED		
C16	ETHERNET PATCH CORD (SEE NOTE 7)	(VARIES)	NETWORK SWITCH

CONDUITS

DESIGNATION	SIZE AND TYPE	CABLES
①	2" PCRMC	[P1]
②	2" PCRMC	[P1]
③	2" PCRMC	[P2]
④	2" PCRMC	[P3]
⑤	1½" PCRMC	[P5]
⑥	2" PCRMC	P4
⑦	2" PCRMC	P6
⑧	1½" PCRMC	P8 [P10] [P11] P13
⑨	2" PCRMC	[P1] [P5]
⑩	3" PCRMC	C1 C2 [C3] [C6] C10
⑪	3" RNMC–80	[C8]
⑫	3" RNMC–80	[C7]
⑬	3" RNMC–80	C8
⑭	3" RNMC–80	[P5]
⑮	3" RNMC–80	(SPARE)
⑯	3" PCRMC	P5 P13
⑰	2" PCRMC	P5
⑱	2" PCRMC	P6
⑲	3" PCRMC	C1 C2 C3 C6 C10 [C11]
⑳	2" PCRMC	C1 C2 C3 C6 C10 [C11]
㉑	3" PCRMC	P8 P10 P11 P13
㉒	2" PCRMC	P8 P10 P11 P13
㉓	2" PCRMC	[P5] P13
㉔	3" PCRMC	[P5] P13
㉕	2" PCRMC	(SPARE)
㉖	3" PCRMC	(SPARE)
㉗	2" PCRMC	C2 C3
㉘	2" FMC	C3

CONDUITS CONTINUED

DESIGNATION	SIZE AND TYPE	CABLES
㉙	2" FMC	C2
㉚	2" PCRMC	P8 P10
㉛	2" FMC	P10
㉜	2" PCRMC	P8
㉝	1" FMC ⚠1	P11
㉞	NOT USED	
㉟	NOT USED	
㊱	3" PCRMC	[C7] [C8] [C12] [C13]
㊲	3" RNMC–40	C1 C2 C6 C10 C11
㊳	3" RNMC–40	P8 P11
㊴	3" RNMC–40	[P1] P6 P13
㊵	3" RNMC–40	[P2] [P3] P13
㊶	NOT USED ⚠1	
㊷	2" RNMC–40	P13
㊸	3" PCRMC	P13
㊹	2" FMC	P8
㊺	NOT USED	

LEGEND:

[P##] [C##] — ITEMS SHOWN DASHED MAY VARY BY INSTALLATION. SEE CONTRACT PLANS FOR SPECIFIC CABLE INSTALLATION.

OAE = OR APPROVED EQUAL

NOTES:

1. SEE DETAILS ON THE FOLLOWING STANDARD DRAWINGS FOR LOCATING CONDUITS AND CABLES LISTED IN THE TABLES ON THIS DRAWING.
2. SEE STANDARD DRAWING ITS–01 FOR A LIST OF ABBREVIATIONS IDENTIFYING THE TYPES OF CONDUITS AND CABLES LISTED ON THIS DRAWING.
3. POWER AND COMMUNICATION CABLES SHALL BE OF THE MAKE AND MODEL AS DESCRIBED IN THE SPECIFICATIONS.
4. SIZE AND QUANTITY OF INCOMING SERVICE WIRES SHALL BE AS SHOWN ON THE PLANS.
5. CABLES SHALL BE SIZED AS SHOWN ON THIS DRAWING UNLESS NOTED OTHERWISE ON THE PLANS.
6. REFER TO THE CONTRACT PLANS TO IDENTIFY WIRING REQUIRED TO BE FURNISHED AND INSTALLED FOR EQUIPMENT WHICH MAY NOT BE INCLUDED IN THESE STANDARD DRAWINGS.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL CAT–5E (OR BETTER) RATED ETHERNET PATCH CORDS AS SHOWN ON ITS–31. THE PATCH CORDS AND THEIR TERMINATION SHALL NOT BE PAID FOR SEPERATELY AND SHALL BE INCIDENTAL TO THE COST OF THE INSTALLATION OF THE SCC. SEE ITS–31 FOR MORE INFORMATION.
8. RG–6 COAXIAL CABLE SHALL BE USED ONLY FOR ANALOG CAMERA INSTALLATION.

	BY	DATE
MADE	EMG	09/2010
TRACED	MDC	09/2010
CHECKED	EMG	09/2010
SUPERVISED	ALB	09/2010

0 ½ 1 2 3 4
ORIGINAL SIZE IN INCHES

APP.	NO.	DATE	REVISION
	1	5/2014	REVISED WIRING AND CONDUITS
	C	10/2013	CONFORMED DRAWING

NEW JERSEY TURNPIKE AUTHORITY
NEW JERSEY TURNPIKE
ITSS GENERAL NOTES, LEGEND, AND ABBREVIATIONS – 2

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New Jersey Professional Engineer License No. GE 45842

STANDARD DRAWING ITS–02

CONTRACT NO. SHEET NO. OF

ACAD FILE NAME: NJTA–SD ITS–02.dwg Layout: .Layout1

MASTER FILE: N:\NJTA\Drawings\Standards\Working Files\ITS\NJTA-SD ITS-02.dwg* LAST SAVED DATE: May 22, 2014 – 11:56 By: kCorkey
XREF FILE: N:\NJTA\Drawings\Standards\Working Files\ITS\NJTA-SD ITS-02.dwg*