TRACER SUMMIT INFRASTRUCTURE DIAGRAM

EXISTING SYSTECON CONTROL PANEL

BACNET I/P

EXISTING BUILDING CONTROL UNIT
BCU-1

MODEM
PHONE LINE BY OTHERS

CAT5 ETHERNET
TRANE TO CONFIGURE BCU'S WITH I/P, TYP.

EXISTING ETHERNET SWITCH

EXISTING LAPTOP TRANE TO CONFIGURE WKS WITH I/P, TYP.

LAPTOP

CAT-5

EXISTING BUILDING CONTROL UNIT
BCU-4

CAT5 ETHERNET
TRANE TO CONFIGURE BCU'S WITH I/P, TYP.

EXISTING ETHERNET SWITCH

WORKSTATION
SUMMIT

EXISTING WORKSTATION TRANE TO CONFIGURE WKS WITH I/P, TYP.

ISF GROUND FLOOR

PLANT

UPS ROOM

NEW BACKBOARD PROVIDED BY OTHERS

NEW ETHERNET SWITCH
(BY OTHERS)

CAT-5 — FS-1 — TO APC EQUIPMENT
CAT-5 — FS-2 — TO EATON EQUIPMENT
CAT-5 — FS-3 — TO HAWTHORNE EQUIPMENT
CAT-5 — FS
CAT-5 — FS

NOTE:
FIELD SERVERS REQUIRE 110VAC OUTLET. EACH HAS A DEDICATED PLUG IN POWER SUPPLY.

EXISTING BUILDING CONTROL UNIT
BCU-2

CAT5 ETHERNET
TRANE TO CONFIGURE BCU'S WITH I/P, TYP.

EXISTING ETHERNET SWITCH

EXISTING BUILDING CONTROL UNIT
BCU-3

CAT5 ETHERNET
TRANE TO CONFIGURE BCU'S WITH I/P, TYP.

EXISTING ETHERNET SWITCH

WORKSTATION
SUMMIT

EXISTING WORKSTATION TRANE TO CONFIGURE WKS WITH I/P, TYP.

WORKSTATION
SUMMIT

EXISTING WORKSTATION TRANE TO CONFIGURE WKS WITH I/P, TYP.

MSTF 2ND FLOOR

MSTF GROUND FLOOR

TRANE PACIFIC SERVICE
Building Automation Systems Division

330 Sand Island Access Road
Honolulu, HI 96819
(808) 845-6662

Drawn By:	Checked By:	Date:	Sheet:	of
RJR		SEPT. 1, 2011	1	2

Job Name:
SCHOFIELD BLDG 1500 UPS INTEGRATION PROJECT

Title:
TRACER SUMMIT INFRASTRUCTURE CONTROL WIRING DIAGRAM

Job #
W100184

EXISTING BCU ADDRESS DIP "SW2" SETTINGS

	DEVICE ID	DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	DIP8
BCU-1 (CHILLER PLANT)	1	OFF	ON	ON	ON	ON	ON	ON	ON
BCU-2 (MSTF 1ST FLOOR)	2	ON	OFF	ON	ON	ON	ON	ON	ON
BCU-3 (MSTF 2ND FLOOR)	3	OFF	OFF	ON	ON	ON	ON	ON	ON
BCU-4 (ISF 1ST FLOOR)	4	ON	ON	OFF	ON	ON	ON	ON	ON

EXISTING WORKSTATION/LAPTOP I/P ADDRESSES

	DEVICE ID	AUTH CODE	I/P ADDRESS	GATEWAY	SUBNET
WORKSTATION-1	80	SUMMIT -	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX
WORKSTATION-2	81	SUMMIT -	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX
WORKSTATION-3	82	SUMMIT -	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX
LAPTOP	83	SUMMIT -	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX
TRANE LAPTOP			XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX

MISC DEVICE I/P ADDRESS

	DEVICE ID	I/P ADDRESS	GATEWAY	SUBNET
FS-1 HAWTHORNE	11	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX
FS-2 EATON	12	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX
FS-3 APC	13	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX
SYSTECON	14	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX	XXX.XXX.XXX.XXX

FIELD SERVER MAPPING

FS-1 BACNET (SUMMIT) / FS-1 MODBUS (EATON)

SUMMIT POINT NAME	DATA TYPE	OBJECT ID	ACTIVE TEXT	INACTIVE TEXT	TYPE	MODBUS ADDRESS	EATON POINT NAME
UPS-1 NORMAL POWER	DI	10001	YES	NO	BIT	10001	UPS-1 NORMAL POWER
UPS-1 BATTERY POWER	DI	10002	YES	NO	BIT	10002	UPS-1 BATTERY POWER

FS-2 BACNET (SUMMIT) / FS-2 MODBUS (HAWTHORNE)

SUMMIT POINT NAME	DATA TYPE	OBJECT ID	ACTIVE TEXT	INACTIVE TEXT	TYPE	MODBUS ADDRESS	HAWTHORNE POINT NAME
ATS 1 NORMAL POWER	DI	10001	YES	NO	BIT	10001	ATS 1 NORMAL POWER
ATS 1 EMERGENCY POWER	DI	10002	YES	NO	BIT	10002	ATS 1 EMERGENCY POWER
ATS 1 ON GEN 1	DI	10003	YES	NO	BIT	10003	ATS 1 ON GEN 1
ATS 1 ON GEN 2	DI	10004	YES	NO	BIT	10004	ATS 1 ON GEN 2
ATS 2 NORMAL POWER	DI	10005	YES	NO	BIT	10005	ATS 2 NORMAL POWER
ATS 2 EMERGENCY POWER	DI	10006	YES	NO	BIT	10006	ATS 2 EMERGENCY POWER
ATS 2 ON GEN 1	DI	10007	YES	NO	BIT	10007	ATS 2 ON GEN 1
ATS 2 ON GEN 2	DI	10008	YES	NO	BIT	10008	ATS 2 ON GEN 2
GEN 1 RUN STATUS	DI	10009	ON	OFF	BIT	10009	GEN 1 RUN STATUS
GEN 2 RUN STATUS	DI	10010	ON	OFF	BIT	10010	GEN 2 RUN STATUS

FS-3 BACNET (SUMMIT) / FS-3 MODBUS (APC)

SUMMIT POINT NAME	DATA TYPE	OBJECT ID	ACTIVE TEXT	INACTIVE TEXT	UNITS	TYPE	MODBUS ADDRESS	APC POINT NAME
UPS-2 NORMAL POWER	DI	10001	YES	NO		BIT	10001	UPS-2 NORMAL POWER
UPS-2 BATTERY POWER	DI	10002	YES	NO		BIT	10002	UPS-2 BATTERY POWER
ROOM B103 ZONE TEMP	AO	40001			DEG_F	FLOAT	40001	ROOM B103 ZONE TEMP
ROOM B107 ZONE TEMP	AO	40002			DEG_F	FLOAT	40002	ROOM B107 ZONE TEMP
ROOM B109 ZONE TEMP	AO	40003			DEG_F	FLOAT	40003	ROOM B109 ZONE TEMP
HACS CHWS TEMP	AO	40004			DEG_F	FLOAT	40004	HACS CHWS TEMP
HACS CHWR TEMP	AO	40005			DEG_F	FLOAT	40005	HACS CHWR TEMP

NOTES

TRANE PACIFIC SERVICE
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Job Name: SCHOFIELD BLDG 1500 UPS INTEGRATION PROJECT

Title: I/P ADDRESS SCHEDULE, FIELD SERVER POINT MAPPING SCHEDULE

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