1 2 3 4 5

D C B A

PANELBOARD ID: P2 PROJECT: 15TH ST FIRE STATION, FORT STEWART, GA
LOCATION: ELECTRICAL ROOM - RM 116 MCB OR MLO: MLO VOLTAGE: 208/120V, 3PH. 4W
MOUNTING: SURFACE BUS RATING: 100 A AIC RATING: 22KA

CKT NUMBER	DESCRIPTION	CODE	FDR	LOAD VOLT-AMP A	B	C	BKR AMP	POLE	BKR AMP	POLE	LOAD VOLT-AMP A	B	C	CODE	FDR	DESCRIPTION	CKT NUMBER
1	ELECTRICAL ROOM	R	1	360			20	1	20	1	720			R	1	TRAINING OFFICER	2
3	DEPT TRAINING	R	1		1260		20	1	20	1		540		R	1	DEPT TRAINING	4
5	DEPT TRAINING	R	1			540	20	1	20	1			540	R	1	COMP TRAINING	6
7	COMP TRAINING	R	1	540			20	1	20	1	900			R	1	COMP TRAINING	8
9	COMP TRAINING	R	1		540		20	1	20	1		360		R	1	COMP TRAINING	10
11	CHIEF'S DORM	R	1			720	20	1	20	1			1260	R	1	CHIEF	12
13	DEPUTY CHIEF	R	1	900			20	1	20	1	180			R	1	DEDICATED WAITING ROOM	14
15	LOBBY/WAITING ROOM	R	1		1080		20	1	20	1		180		R	1	TOILET	16
17	MICROWAVE	K	1			180	20	1	20	1			1440	R	1	STN. CAPTAIN/ASST. CHIEF	18
19	TOILET/KITCHENETTE	K	1	1080			20	1	20	1	1080			R	1	FIRE INSPECTIONS	20
21	DORM	R	1		900		20	1	20	1		360		R	1	FIRE INSPECTIONS	22
23	ASST. CHIEF PREV DORM	R	1			1260	20	1	20	1			1080	R	1	CONFERENCE	24
25	CORR RECPT. 112	R	1	1080			20	1	20	1	360			R	1	COMM	26
27	COMM	R	1		360		20	1	20	1		180		R	1	REC RM DEDICATED RECPT.	28
29	REC RM DEDICATED RECPT.	R	1			180	20	1	20	1			180	R	1	REC RM DEDICATED RECPT.	30
31	REC ROOM	R	1	720			20	1	20	1	720			R	1	REC ROOM/COMM	32
33	MECH	R	1		1260		20	1	20	1		720		R	1	CORR 112	34
35	CORR 112/119	R	1			720	20	1	20	1			720	R	1	CORR 136	36
37	TOILET 110	R	1	180			20	1	20	1				X	5	GEN HEATER	38
39	GLYCOL CIRCULATION PUMP	M	2		242		15	1	20	1				X	5	GEN BATT CHARGER	40
41									20	1			420	1	M	GAS WHTR HWCP RM 117	42

SUBOTAL CONNECTED LOAD (VA):	4860	5642	3600			3960	2340	5640
TOTAL CONNECTED LOAD /PHASE (VA):	8820	7982	9240					
TOTAL CONNECTED LOAD (VA):		26042						
TOTAL CONNECTED LOAD (AMPS):		72.3						

LOAD TYPE KVA		CONNEC. LOAD	DEMAND FACTOR	DESIGN FACTOR	DESIGN LOAD	
LIGHTING	L	0.0	1.0	1.25	0.0 KVA	AS PER NEC 220.42 & 215
RECEPTACLES	R	24.1	-	1.00	17.1 KVA	AS PER NEC 220.44 & 215
MOTORS/HVAC	M	0.2	1.0	1.00	0.2 KVA	AS PER NEC 220.50 & 215
FIXED HEATING	H	0.0	1.0	1.00	0.0 KVA	AS PER NEC 220.51 & 215
KITCHEN	K	1.3	1.0	1.00	1.3 KVA	AS PER NEC 220.56 & 215
MISCELLANEOUS LOAD	X	0.0	1.0	1.00	0.0 KVA	
BIGGEST MTR	-			0.25	0.0 KVA	AS PER NEC 220.50 & 215
SUBTOTAL LOAD (K'VA)		25.6 KVA			18.6 KVA	
FUTURE LOAD	20%	OF THE CONNECTED LOAD			5.1 KVA	
COINCIDENCE FACTOR	1.00					
TOTAL DESIGN LOAD					23.7 KVA	I = 65.7 A

ITEMS KITCHEN 2

PANEL ADDITIONAL FEATURES
ENCLOSURE: NEMA 1
NEUTRAL BUS: YES
200% NEUTRAL: NO
INTEGRAL TVSS: NO
ISOLATED GROUND: NO
SERVICE RATED: NO
GROUND BUS: YES

NOTES:

PANELBOARD ID: P3 PROJECT: 15TH ST FIRE STATION, FORT STEWART, GA
LOCATION: APPARATUS RM MCB OR MLO: MCB 100A VOLTAGE: 208/120V, 3PH. 4W
MOUNTING: SURFACE BUS RATING: 100 A AIC RATING: 22KA

CKT NUMBER	DESCRIPTION	CODE	FDR	LOAD VOLT-AMP A	B	C	BKR AMP	POLE	BKR AMP	POLE	LOAD VOLT-AMP A	B	C	CODE	FDR	DESCRIPTION	CKT NUMBER
1	OVERHEAD DOOR RECPT.	R	1	1176			20	1	20	1	720			R	1	APPARATUS BAY	2
3	APPARATUS BAY	R	1		720		20	1	20	1		360		R	1	APPARATUS BAY	4
5	OVERHEAD DOOR RECPT.	R	1			1176	20	1	20	1			1260	R	1	APPARATUS BAY	6
7	APPARATUS BAY	R	1	360			20	1	20	1	1176			R	1	OVERHEAD DOOR RECPT.	8
9	EQUIP. WASH/MAINT.	R	1		1260		20	1	20	1		540		R	1	EQUIP/STORAGE LOGISTICS	10
11	MEN/WOMEN BATHROOM	R	1			360	20	1	20	1			540	R	1	JAN/LAUNDRY	12
13	DEDICATED LAUNDRY	R	1	180			20	1	20	1	180			R	1	DEDICATED LAUNDRY	14
15	DEDICATED LAUNDRY	R	1		180		20	1	20	1		540		R	1	PROT CLTHG LAUNDRY	16
17	DEDICATED PROT LNDRY	R	1			180	20	1	20	1			180	R	1	DEDICATED PROT LNDRY	18
19	DEDICATED PROT LNDRY	R	1	180			20	1	20	1	180			R	1	DEDICATED PROT LNDRY	20
21	DEDICATED PROT LNDRY	R	1		180		20	1	20	1		180		R	1	CONF. CLNG RECPT.	22
23	VES CONTROL	X	1			100	20	1	15	1			690	M	1	SUMP PUMP	24
25	UNIT HEATERS ROOM 154	M	1	888.0			20	1						M			26
27	OVERHEAD DOOR	X	1		1176		20	1						M			28
29													2135	M			30
31									40	3	2135			M	6	COMPRESSOR	32
33												2135		M			34
35													915	M			36
37									15	2	915			M	2	EF-4	38
39																	40
41																	42

SUBOTAL CONNECTED LOAD (VA):	2784	3516	1816			5307	3755	5721
TOTAL CONNECTED LOAD /PHASE (VA):	8091	7271	7537					
TOTAL CONNECTED LOAD (VA):		22899						
TOTAL CONNECTED LOAD (AMPS):		63.6						

LOAD TYPE KVA		CONNEC. LOAD	DEMAND FACTOR	DESIGN FACTOR	DESIGN LOAD	
LIGHTING	L	0.0	1.0	1.25	0.0 KVA	AS PER NEC 220.42 & 215
RECEPTACLES	R	11.8	-	1.00	10.9 KVA	AS PER NEC 220.44 & 215
MOTORS/HVAC	M	9.8	1.0	1.00	9.8 KVA	AS PER NEC 220.50 & 215
FIXED HEATING	H	0.0	1.0	1.00	0.0 KVA	AS PER NEC 220.51 & 215
KITCHEN	K	0.0	1.0	1.00	0.0 KVA	AS PER NEC 220.56 & 215
MISCELLANEOUS LOAD	X	1.3	1.0	1.00	1.3 KVA	
BIGGEST MTR	-			0.25	0.0 KVA	AS PER NEC 220.50 & 215
SUBTOTAL LOAD (K'VA)		21.6 KVA			22.0 KVA	
FUTURE LOAD	20%	OF THE CONNECTED LOAD			4.3 KVA	
COINCIDENCE FACTOR	1.00					
TOTAL DESIGN LOAD					26.3 KVA	I = 73.1 A

ITEMS KITCHEN 0

PANEL ADDITIONAL FEATURES
ENCLOSURE: NEMA 1
NEUTRAL BUS: YES
200% NEUTRAL: NO
INTEGRAL TVSS: NO
ISOLATED GROUND: NO
SERVICE RATED: NO
GROUND BUS: YES

NOTES:

PANELBOARD ID: U PROJECT: 15TH ST FIRE STATION, FORT STEWART, GA
LOCATION: UPS COMM & IT - RM 106 MCB OR MLO: MCB 60A VOLTAGE: 240/120V, 1PH, 3W
MOUNTING: SURFACE BUS RATING: 100 A ꞉ RATING: 22KA

CKT NUMBER	DESCRIPTION	CODE	FDR	LOAD VOLT-AMP A	B	BKR AMP	POLE	BKR AMP	POLE	LOAD VOLT-AMP A	B	CODE	FDR	DESCRIPTION	CKT NUMBER
1	DOOR SECURITY	X	1	360		20	1	20	1	360		X	1	FIRE FIGHTERS ALERT SYS.	2
3	COMM REC # 1 - RM 106	R	1		360	20	1	20	1		360	R	1	RM 106	4
5	COMM REC # 2- RM 106	R	1	360		20	1	20	1	360		R	1	RM 106	6
7	RM 107 Workstation No. 1	R	1		360	20	1	20	1		360	R	1	RM 107 Workstation No. 2	8
9	RM 107 Workstation No. 1 -Q	R	1	360		20	1	20	1	360		R	1	RM 107 Workstation No. 2 -Q	10
11	RM 106- CEILING MOUNTED	R	1		180	20	1	20	1		360	R	1	RM 107 - REC-NORTH WALL	12
13	RM 106- RECEPTACLE	R	1	360		20	1	20	1					SPARE	14
15	SPARE					20	1	20	1					SPARE	16
17	SPARE					20	1	20	1					SPARE	18

SUBOTAL CONNECTED LOAD (VA):	1440	900			1080	1080
TOTAL CONNECTED LOAD /PHASE (VA):	2520	1980				
TOTAL CONNECTED LOAD (VA):	4500					
TOTAL CONNECTED LOAD (AMPS):	18.8					

LOAD TYPE KVA		CONNEC. LOAD	DEMAND FACTOR	DESIGN FACTOR	DESIGN LOAD	
LIGHTING	L	0.0	1.0	1.25	0.0 KVA	AS PER NEC 220.42 & 215
RECEPTACLES	R	3.8	-	1.00	3.8 KVA	AS PER NEC 220.44 & 215
MOTORS/HVAC	M	0.0	1.0	1.00	0.0 KVA	AS PER NEC 220.50 & 215
FIXED HEATING	H	0.0	1.0	1.00	0.0 KVA	AS PER NEC 220.51 & 215
KITCHEN	K	0.0	1.0	1.00	0.0 KVA	AS PER NEC 220.56 & 215
MISCELLANEOUS LOAD	X	0.7	1.0	1.00	0.7 KVA	
BIGGEST MTR	-			0.25	0.0 KVA	AS PER NEC 220.50 & 215
SUBTOTAL LOAD (K'VA)		4.5 KVA			4.5 KVA	
FUTURE LOAD	20%	OF THE CONNECTED LOAD			0.9 KVA	
COINCIDENCE FACTOR	1.00					
TOTAL DESIGN LOAD					5.4 KVA	I = 22.5

0 # ITEMS KITCHEN

PANEL ADDITIONAL FEATURES
ENCLOSURE: NEMA 1
NEUTRAL BUS: YES
200% NEUTRAL: NO
INTEGRAL TVSS: NO
ISOLATED GROUND: NO
SERVICE RATED: NO
GROUND BUS: YES

NOTES:

PANELBOARD ID: TC PROJECT: 15TH ST FIRE STATION, FORT STEWART, GA
LOCATION: STORAGE ROOM MCB OR MLO: MCB 100A VOLTAGE: 208/120V, 3PH. 4W
MOUNTING: SURFACE BUS RATING: 100 A AIC RATING: 22KA

CKT NUMBER	DESCRIPTION	CODE	FDR	LOAD VOLT-AMP A	B	C	BKR AMP	POLE	BKR AMP	POLE	LOAD VOLT-AMP A	B	C	CODE	FDR	DESCRIPTION	CKT NUMBER
1	TRAINING AREA 200 RCPT	R	1	900			20	1	20	1	720			R	1	OFFICE 201 RCPT	2
3	TRAINING AREA 200 RCPT	R	1		900		20	1	20	1		540		R	1	STORAGE/TOILET 202/203	4
5	TRAINING AREA 200 RCPT	R	1			1080	20	1					3744	M			6
7		M		1248					60	2	3744			M	5	HP-T2	8
9	HP-T1	M	2		1248		20	2	20	1		156		M	1	EF-5	10
11		M				790			20	1			218	L	1	TRAINING AREA LGHT	12
13	FCU-T2	M	2	790			20	2	20	1	1500			L	1	TOILET ROOM	14
15	TRAINING AREA LGHT	L	1		1178		20	1						L	1	EXTERIOR LIGHTING	16
17	STORAGE	L	1			104	20	1									18
19																	20
21																	22
23																	24
25																	26
27																	28
29																	30
31																	32
33																	34
35																	36
37																	38
39																	40
41																	42

SUBOTAL CONNECTED LOAD (VA):	2938	3326	1975			5964	696	3962
TOTAL CONNECTED LOAD /PHASE (VA):	8902	4022	5937					
TOTAL CONNECTED LOAD (VA):		18861						
TOTAL CONNECTED LOAD (AMPS):		52.4						

LOAD TYPE KVA		CONNEC. LOAD	DEMAND FACTOR	DESIGN FACTOR	DESIGN LOAD	
LIGHTING	L	3.0	1.0	1.25	3.8 KVA	AS PER NEC 220.42 & 215
RECEPTACLES	R	4.1	-	1.00	4.1 KVA	AS PER NEC 220.44 & 215
MOTORS/HVAC	M	11.7	1.0	1.00	11.7 KVA	AS PER NEC 220.50 & 215
FIXED HEATING	H	0.0	1.0	1.00	0.0 KVA	AS PER NEC 220.51 & 215
KITCHEN	K	4.0	1.0	1.00	4.0 KVA	AS PER NEC 220.56 & 215
MISCELLANEOUS LOAD	X	0.0	1.0	1.00	0.0 KVA	
BIGGEST MTR	-			0.25	0.0 KVA	AS PER NEC 220.50 & 215
SUBTOTAL LOAD (K'VA)		22.9 KVA			23.6 KVA	
FUTURE LOAD	20%	OF THE CONNECTED LOAD			4.6 KVA	
COINCIDENCE FACTOR	1.00					
TOTAL DESIGN LOAD					28.2 KVA	I = 78.2 A

ITEMS KITCHEN 0

PANEL ADDITIONAL FEATURES
ENCLOSURE: NEMA 1
NEUTRAL BUS: YES
200% NEUTRAL: NO
INTEGRAL TVSS: YES
ISOLATED GROUND: NO
SERVICE RATED: YES
GROUND BUS: YES

NOTES: Provide integrated Lightning Surge Protector with circuit breaker disconnect to satisfy UL lightning protection requirements. Coordinate breaker rating with LSP requirements.

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027466 3/3/10

TEAM Construction, LLC

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US Army Corps of Engineers®
Huntsville Center

MARK	DESCRIPTION	DATE	APPR.
A	100% PRE-FINAL DESIGN	11/06/09	
B	FINAL DESIGN FOR CONSTRUCTION	03/03/10	

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
HUNTSVILLE CENTER

DESIGNED BY: SMH | DATE: 29-JULY-2009
DWN BY: SMH | CKD BY: JDL | SOLICITATION NO.: W912DY-09-R-0020
SUBMITTED BY: KCI TECHNOLOGIES | CONTRACT NO.: W912DY-09-C-0003
PLOT SCALE: AS NOTED | PLOT DATE: | FILE NUMBER: XX-X-XX/XXX
SIZE: ANSI D | FILE NAME: FS_E-601.dgn

3 MARCH 2010 BUILDING DESIGN FINAL DESIGN FOR CONSTRUCTION

15TH STREET FIRE STATION
FORT STEWART, GEORGIA

PANEL SCHEDULES

SHEET IDENTIFICATION
E-601
SHEET 114 OF 117