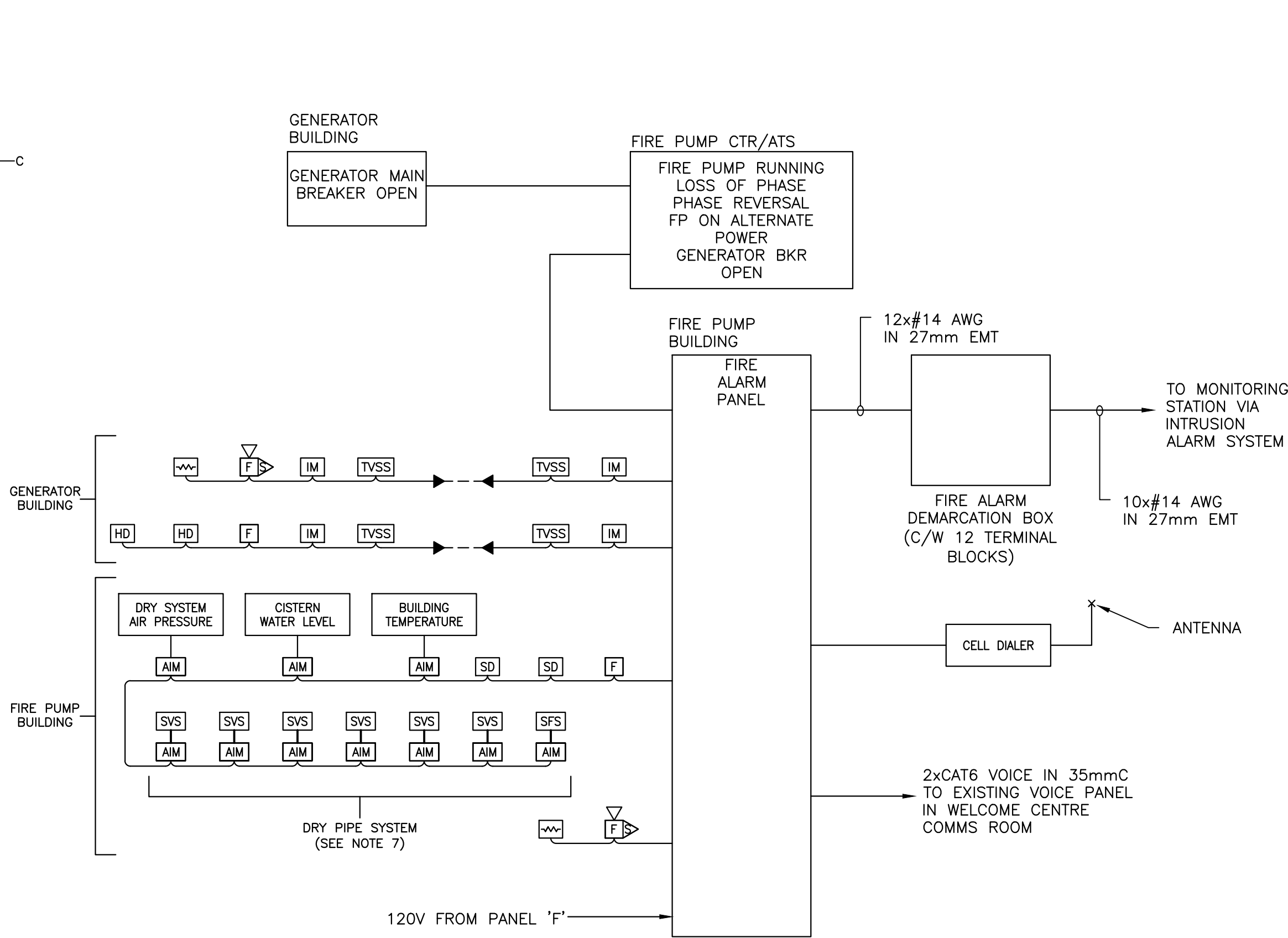


Remarks	Power:	120/208	V	3	ø	4	W		PANEL	F		SYM. IC.:	25000	A						
	# OF CKTS.:	42						LOCATION	FIRE PUMP BUILDING					MAINS:	100	A				
	INCOMING:												MAIN BKR:	100	A					
	Designation							CKT #	Watts	BKR	PHASE a b c			BKR	Watts	CKT #	Designation			
	UNIT HEATER (UH-1)							1	1500	20A	X			15A	500	2	WATER LEVEL CONTROLS			
								3	1500			X		15A	1130	4	EXHAUST FAN			
	UNIT HEATER (UH-2)							5	1500	20A		X		60A	2880	6	JOCKEY PUMP & CONTROLS			
								7	1500	2P	X			20A	865	8	AIR COMPRESSOR			
	SPARE							9				X		15A	500	10	FIRE ALARM PANEL			
	LIGHTING							11	135	15A		X		15A	360	12	GENERAL RECEPTACLES			
2	SECURITY PANEL							13	500	15A	X			15A		14	SPARE			
	SPARE							15		15A		X		15A		16	SPARE			
	SPARE							17		15A			X	15A		18	SPARE			
	SPARE							19		15A	X			15A		20	SPARE			
	SPARE							21		15A	X					22	-			
	SPARE							23		15A			X			24	-			
								25		2P	X					26	-			
	-							27				X				28	-			
	-							29					X			30	-			
	-							31			X					32	-			
	-							33				X				34	-			
	-							35					X			36	-			
	-							37			X					38	-			
	-							39				X				40	-			
	-							41					X			42	-			
FEEDER:																	SOURCE:			
Remarks:	1	CONFIRM EXACT BREAKER REQUIREMENTS WITH MECHANICAL PRIOR TO										Phase A Total		4865	W	40.5	A			
		PURCHASING AND INSTALLING BREAKER										Phase B Total		3130	W	26.1	A			
	2	PROVIDE LOCK-ON DEVICE										Phase C Total		4875	W	40.6	A			
	3	RED BREAKER										TOTAL		12870	W	35.8	A			

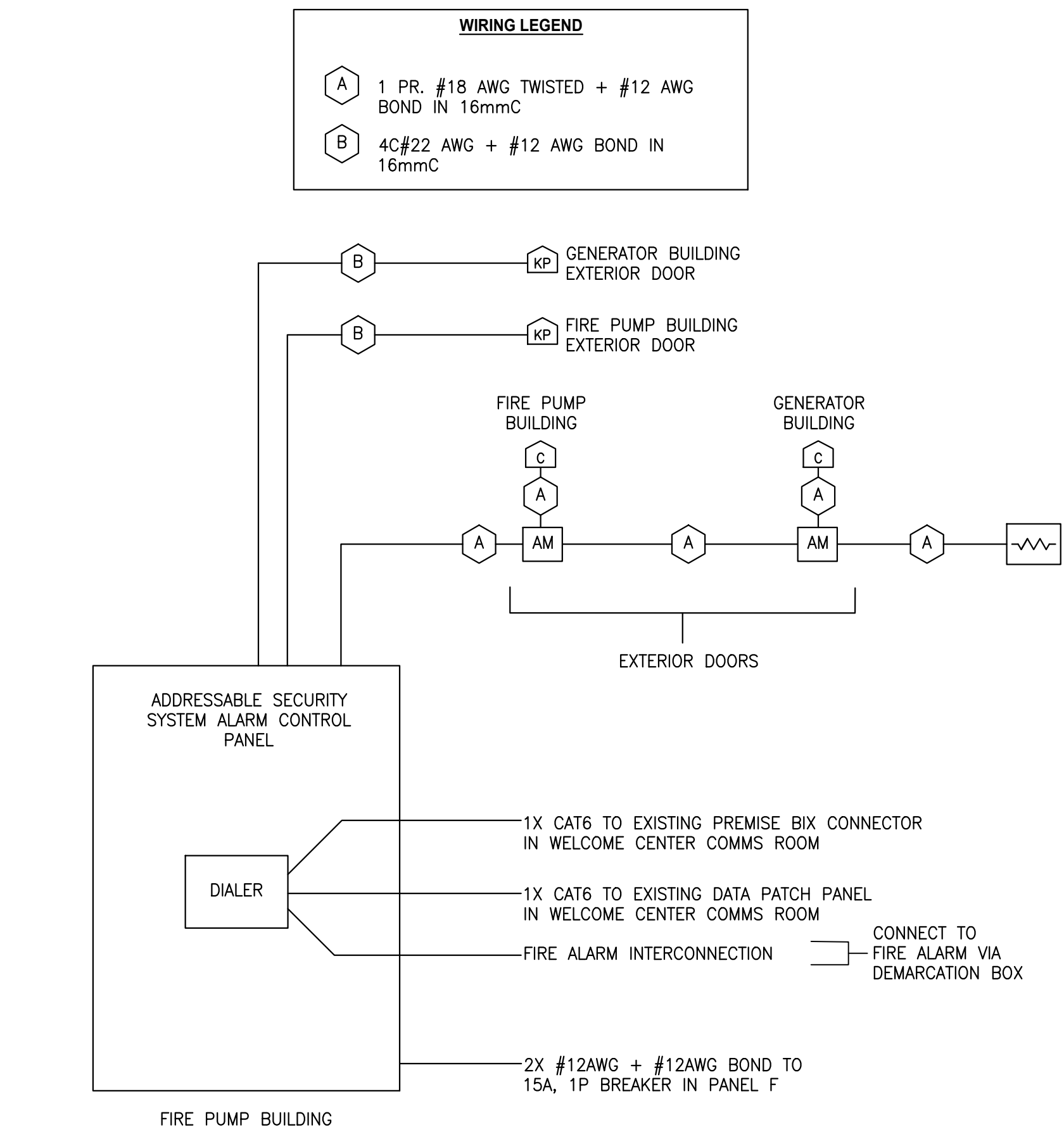
Remarks	Power:	120/208	V	3	ø	4	W		PANEL	G		SYM. IC.:	25000	A										
	# OF CKTS.:	42						LOCATION	GENERATOR BUILDING					MAINS:	225	A								
	INCOMING:																MAIN BKR:	200	A					
	Designation							CKT #	Watts	BKR	PHASE			BKR	Watts	CKT #	Designation							
	UNIT HEATER (UH-1)							1	1500	20A 2P	X	a	b	c	15A	500	2	FUEL LEVEL MONITOR						
								3	1500	2P			X		15A		4				SPARE			
	UNIT HEATER (UH-2)							5	1500	20A 2P			X		15A		6	SPARE						
								7	1500	2P	X					4865	8							
	GENERAL RECEPTACLES							9	360	15A				100A 3P	3130	10	PANEL 'F'							
								11	135	15A			X			4875				12				
1	GENERATOR DAMPER CONTROLS							13	500	15A	X			15A		14	SPARE							
	SPARE							15		15A		X		15A		16	SPARE							
	SPARE							17		15A			X	15A		18	SPARE							
	SPARE							19		15A	X			15A		20	SPARE							
	SPARE							21		15A		X		15A	500	22	EMCS CONTROL PANEL							
	SPARE							23		15A 2P			X			24	GENERATOR AUXILIARY POWER							
								25			X			60A 2P		26								
	-							27				X				28	-							
	-							29					X				30	-						
	-							31			X						32	-						
	-							33				X					34	-						
	-							35					X				36	-						
	-							37			X						38	-						
	-							39				X					40	-						
	-							41					X				42	-						
FEEDER:																	SOURCE:							
Remarks:	1	CONFIRM EXACT BREAKER REQUIREMENTS WITH MECHANICAL PRIOR TO										Phase A Total		8865	W	73.9		A						
		PURCHASING AND INSTALLING BREAKER										Phase B Total		5490	W	45.8		A						
												Phase C Total		6510	W	54.3		A						
												TOTAL		20865	W	58.0		A						

LIGHTING FIXTURE SCHEDULE AND SPECIFICATION									
TYPE	DESCRIPTION	ADDITIONAL DESCRIPTION	LAMP TYPE	FIXTURE WATTAGE	VOLTAGE	COLOUR TEMPERATURE (K)	FINISH	LISTINGS	BALLAST/DRIVER TYPE
L1	1200mm x 150mm SUSPENDED VAPOR TIGHT FIXTURE	3000 LUMENS, SURFACE OR SUSPENDED AT 2390mm A.F.F.	LED	22	120	3500	WHITE		ELECTRONIC
L2	EXTERIOR WALL MOUNTED FIXTURE	SPECIFICATIONS GRADE, 1100 LUMENS, IP65	LED	14	120	4000	BLACK	IP65	ELECTRONIC
NOTES									
1	THE PRODUCT SPECIFICATIONS LISTED ABOVE REPRESENT THE BASIC FIXTURE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL NECESSARY SUPPORTS FITTINGS, TRIMS, HOUSINGS, CANOPIES, ETC TO MAKE A COMPLETE LIGHTING ASSEMBLY.								



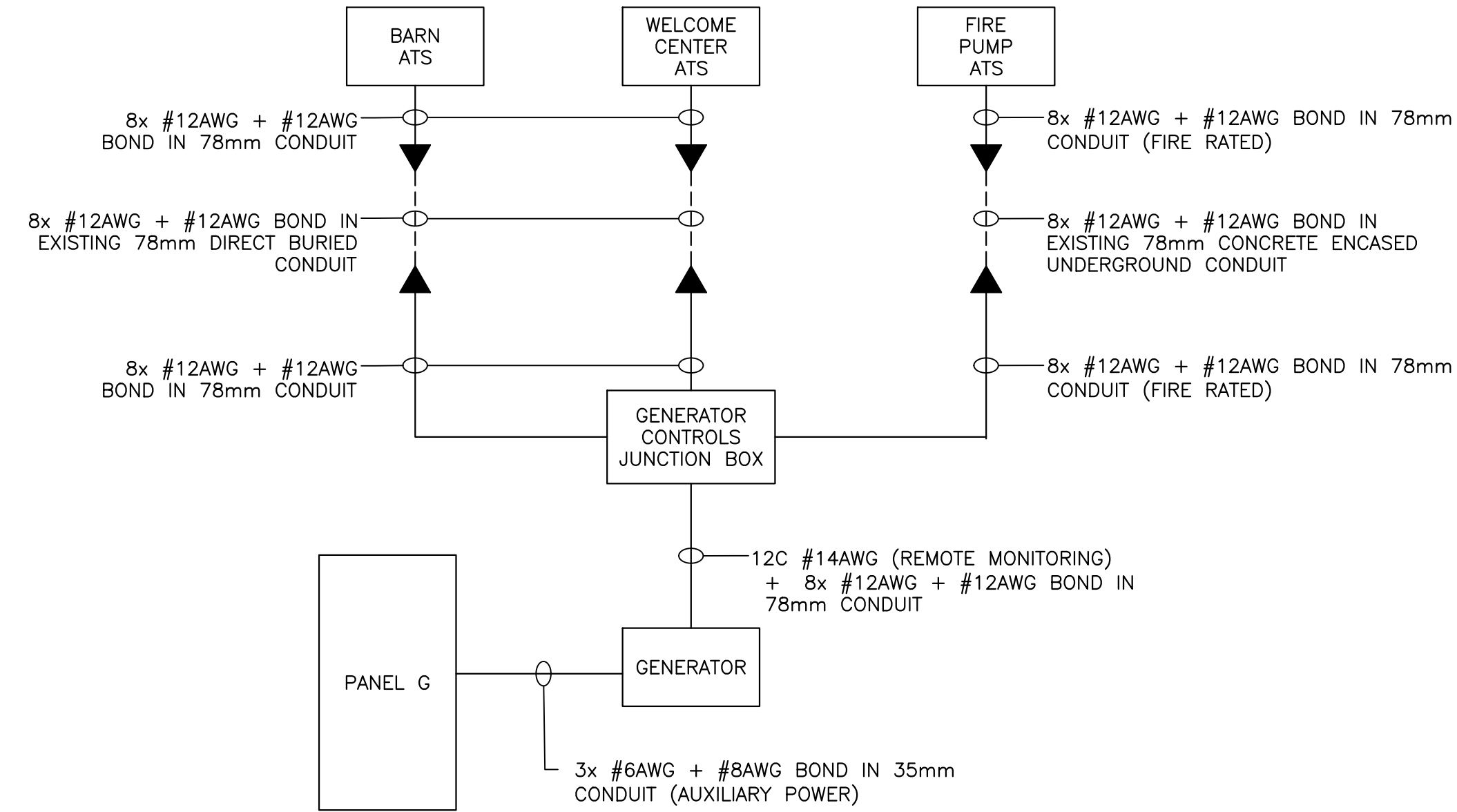
FIRE ALARM SYSTEM RISER DIAGRAM

SCALE : N.T.S.



INTRUSION DETECTION SYSTEM RISER DIAGRAM

SCALE : N.T.S.



DETAIL - GENERATOR CONTROLS BLOCK DIAGRAM

SCALE : N.T.S.

NOTES:

- FIELD LOCATE GENERATOR CONTROLS JUNCTION BOX IN GENERATOR BUILDING. PROVIDE TERMINAL BLOCKS AS REQUIRED.
- LOSS OF NORMAL POWER SIGNAL FROM ANY ATS SHALL START GENERATOR.
- GENERATOR STEPS TO BE AS FOLLOWS:  
STEP 1 - FIRE PUMP ATS  
STEP 2 - WELCOME CENTER ATS  
STEP 3 - BARN ATS

NOTES:

- ALL WIRING TO BE INSTALLED AS PER MANUFACTURERS' RECOMMENDATIONS.
- VERIFY EXACT LOCATION AND QUANTITY OF DEVICES ON FLOOR PLANS PRIOR TO CLOSE OF TENDER. RISER DIAGRAMS INDICATES TYPICAL WIRING ONLY.
- ALL WIRING SHALL BE INSTALLED IN A CONDUIT SYSTEM.
- WIRE MAXIMUM OF 15 SECURITY DEVICES PER 305mm LOOP. ALL LOOPS SHALL BE AS EVENLY LOADED AS POSSIBLE.
- ALL WIRING FOR ADDRESSABLE LOOPS SHALL BE 2PR.#18 + #12 BOND IN 16mmC.
- LOCATE MOTION SENSORS MINIMUM OF 1830mm FROM ANY SUPPLY OR RETURN GRILL. COORDINATE WITH OTHER TRADES.
- COORDINATE QUANTITY AND LOCATION WITH FIRE PROTECTION INSTALLER. INCLUDE FOR A MINIMUM OF 10 MONITORED VALVES AND FLOW DEVICES.