MECHANICAL SPECIFICATIONS 1. GENERAL 1.1. ALL WORK SHOWN OR IMPLIED ON THESE DRAWINGS SHALL BE CARRIED OUT IN ACCORDANCE WITH: 1.1.1. ALBERTA BUILDING CODE (ABC) 2006 1.1.2. PLUMBING CODE OF CANADA 2010 1.1.3. CAN/CSA-B125-05 PLUMBING FITTINGS. 1.1.4. LOCAL AUTHORITY HAVING JURISDICTION. NFPA 10-2002 PORTABLE FIRE EXTINGUISHERS. 1.1.5. 1.1.6. ULC STANDARDS 1.2. PRIOR TO SUBMITTING TENDERS, EACH TRADE SHALL EXAMINE THE SITE TO DETERMINE THE CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK. NO CLAIM FOR EXTRA PAYMENT WILL BE CONSIDERED BECAUSE OF FAILURE TO FULFILL THIS CONDITION. START OF WORK WILL BE DEEMED EVIDENCE OF ACCEPTANCE OF, AND SATISFACTION WITH, EXISTING CONDITIONS. 1.3. THE DRAWINGS SHALL BE CONSIDERED TO SHOW THE GENERAL CHARACTER AND SCOPE OF THE WORK AND NOT THE EXACT DETAILS OF THE INSTALLATION. THE INSTALLATION SHALL BE COMPLETE WITH ALL ACCESSORIES AND SUPPORTS REQUIRED FOR A COMPLETE AND OPERATIVE INSTALLATION. THESE MECHANICAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. 1.4. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES AND THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR COMMUNICATING SAFETY REQUIREMENTS TO ITS EMPLOYEES AND COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY ACT. 1.5. ARRANGE, COORDINATE AND PAY ALL REQUIRED FEES AND PERMITS. SUBMIT DRAWINGS AND SPECIFICATIONS TO ALL AUTHORITIES AND OBTAIN APPROVAL BEFORE COMMENCING ANY WORK. PAY FOR FEES AND CHARGES LEVIED BY THE MUNICIPALITY, UTILITIES AND OTHER GOVERNING AUTHORITY FOR PERMITS, INSPECTIONS AND CERTIFICATES, AND WORK PERFORMED BY THE MUNICIPALITY OR UTILITIES IN CONNECTION WITH THE MECHANICAL WORK. ARRANGE AND COORDINATE SUCH WORK AND OBTAIN PERMITS. KEEP A COPY OF ALL SUCH PERMITS AND CERTIFICATES ON THE JOB SITE DURING THE PROJECT DURATION. WORKMANSHIP AND MATERIALS SHALL MATCH OR EXCEED THAT OF THE EXISTING. 1.6. 1.7. ALL WORK TO BE CONDUCTED DURING HOURS SPECIFIED BY THE PROJECT MANAGER. NO DISRUPTION TO BUILDING OPERATIONS WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE OWNER. ALL CHANGES AND CONNECTIONS TO EXISTING SERVICES, REQUIRING THE SHUTDOWN OF THAT SERVICE SHALL BE DONE AT A TIME DESIGNATED BY THE PROJECT MANAGER. ALLOW FOR PREMIUM TIME NEEDED. 1.8. CAREFULLY REMOVE EQUIPMENT TO BE REUSED OR HANDED OVER TO THE OWNER. STORE EQUIPMENT FOR RE-INSTALLATION. RELOCATE ANY PIPING, DUCTWORK, OR EQUIPMENT INTERFERING WITH NEW CONSTRUCTION. 1.9. THE CONTRACTOR SHALL AT ALL TIMES KEEP PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL TO THE SATISFACTION OF THE PROJECT MANAGER. THE CLEANING OF THE AFFECTED AREA SHALL BE CONTINUOUS. PLACE DUST PROTECTION IN THE FORM OF COVER SHEETS OVER EQUIPMENT AND FURNITURE TO ENSURE NO DUST INFILTRATION. 1.10. MANUFACTURER'S INSTRUCTIONS REGARDING THE HANDLING, INSTALLATION AND TESTING OF EQUIPMENT SPECIFIED HEREIN SHALL BE CONSIDERED PART OF THIS SPECIFICATION. 1.11. SUPPLY TOOLS, EQUIPMENT AND PERSONNEL TO DEMONSTRATE AND INSTRUCT OPERATING AND MAINTENANCE PERSONNEL IN OPERATING, CONTROLLING, ADJUSTING, TROUBLESHOOTING AND SERVICING OF ALL SYSTEMS AND EQUIPMENT DURING REGULAR WORK HOURS, PRIOR TO ACCEPTANCE. 1.12. MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR HOISTING OF MECHANICAL EQUIPMENT. COORDINATE HOISTING SCHEDULE WITH PROJECT MANAGER. ARRANGE AND PAY FOR ANY REQUIRED PERMITS. 1.13. INSPECT ALL EQUIPMENT UPON DELIVERY AND NOTIFY PROJECT ENGINEER OF ANY DAMAGE OR DEFICIENCIES. 1.14. SUBMIT ONE (1) COPY OF SHOP DRAWINGS AND PRODUCT DATA IN ELECTRONIC PDF FORMAT OF ALL SPECIFIED EQUIPMENT & SYSTEMS. HARD COPY SHOP DRAWINGS WILL NOT BE ACCEPTED. CERTIFY THAT SHOP DRAWINGS HAVE BEEN REVIEWED BY GENERAL CONTRACTOR PRIOR TO SUBMITTING TO CONSULTANT FOR REVIEW. REVIEWED ELECTRONIC SHOP DRAWINGS WILL BE RE-DISTRIBUTED AS PER PROJECT MANAGER'S INSTRUCTIONS. 1.15. ALL EQUIPMENT, PIPING, DUCTWORK AND WIRING SHALL BE RUN AT RIGHT ANGLES TO AND BE SUSPENDED FROM THE BUILDING STRUCTURE. 1.16. PROVIDE BLACK WITH WHITE WRITING LAMACOID PLATE ON ALL NEW EQUIPMENT. LABEL UNIT AS SHOWN ON DRAWINGS. LETTERING SIZE TO BE MINIMUM 25MM HIGH. MOUNT NEAR CONTROL SECTION OF THE UNIT. 1.17. PROVIDE CUTTING, PATCHING AND CORING OF ALL WALLS, CEILING AND OTHER SURFACES AS REQUIRED FOR MECHANICAL WORK. OBTAIN WRITTEN VERIFICATION OF LOCATIONS FROM THE ENGINEER PRIOR TO CUTTING. ALL ROOFING WORK FOR MECHANICAL EQUIPMENT TO BE UNDERTAKEN BY QUALIFIED ROOFING CONTRACTORS UNDER THIS SECTION. 1.18. INSTALL ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS WITH ADEQUATE ACCESS. 1.19. PIPING LAYOUT ILLUSTRATED ON DRAWINGS INDICATES GENERAL ROUTING OF PIPE WORK AND DOES NOT SHOW ALL FITTINGS AND OFFSETS REQUIRED FOR COMPLETE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PIPING FITTINGS & OFFSETS REQUIRED FOR COORDINATED INSTALLATION WITH OTHER SYSTEMS (DUCTWORK, PIPING, CONDUITS, LIGHTS, ETC.). 1.20. CONTRACTOR SHALL BE RESPONSIBLE FOR DEACTIVATION, DRAINING, REFILLING AND REACTIVATING OF OPERATIONAL SYSTEMS. COORDINATE WITH OWNER AND ENSURE THAT NO UNDUE DISRUPTION OF BUILDING OPERATIONS OCCUR. 1.21. MAINTAIN A SET OF WHITE PRINTS MARKED UP TO "AS BUILT" CONDITION ON SITE, UPDATED ON AN ONGOING BASIS THROUGHOUT THE COURSE OF THE PROJECT. PURCHASE, FROM THE CONSULTANT, SET OF CADD FILES OF THE MECHANICAL CONTRACT DRAWINGS AND TRANSFER ALL INFORMATION ONTO THE CAD DRAWINGS. HAND OVER 2 SETS OF WHITE PRINTS AND CD WITH CADD FILES SHOWING THE "AS BUILT" CONDITION TO THE CONSULTANT FOR FINAL REVIEW PRIOR TO FINAL INSPECTIONS. 1.22. SUBMIT THREE (3) COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ENGINEER'S APPROVAL. 1.23. WARRANTY PERIOD SHALL BE FOR TWELVE (12) MONTHS AFTER THE DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY ENGINEER. 2. INSULATION 2.1. ALL COMPONENTS OF INSULATION SYSTEM TO BE SUITABLE FOR PLENUM INSTALLATION, HAVING MAXIMUM FLAME SPREAD RATING OF 25 AND MAXIMUM SMOKE DEVELOPED RATING OF 50 IN ACCORDANCE WITH CAN4-S102 2.2. INSULATE DOMESTIC COLD WATER PIPING WITH 1" FIBER GLASS INSULATION WITH FACTORY APPLIED VAPOUR BARRIER JACKED, MOLDED TO CONFORM TO PIPING K VALUE AT 24 C. 2.2. PROVIDE ISOLATING VALVES ON MAIN AND/OR BRANCH LINES AND AT ALL EQUIPMENT OR FIXTURES OR WHERE SHOWN. ALL VALVES SHALL BE SUITABLE FOR THE OPERATING PRESSURE OF THE SYSTEM. 2.3. ALL THE INDOOR SUPPLY DUCT WORK TO BE INSULATED WITH 25mmTHICK FIBERGLASS INSULATION. 2.4. OUTDOOR & COMBUSTION AIR DUCT WORKS ARE TO BE INSULATED WITH 50mm OF INSULATION. 2.5. INSULATE EXHAUST DUCTS WITH 25mm INSULATION FOR 3000mm FROM OUTSIDE WALL. 3. PLUMBING 3.1. PROVIDE DIELECTRIC COUPLINGS/UNION UNIONS WHERE DISSIMILAR METALS ARE JOINED. 3.2. PROVIDE ISOLATING VALVES ON MAIN AND/OR BRANCH LINES AND AT ALL EQUIPMENT OR FIXTURES OR WHERE SHOWN. ALL VALVES SHALL BE SUITABLE FOR THE OPERATING PRESSURE OF THE SYSTEM IN WHICH THEY ARE INSTALLED. MAKE AND MODEL SHALL BE AS PER BASE BUILDING STANDARDS AND SPECIFICATIONS UNLESS NOTED OTHERWISE. 3.3. INSTALL ALL ABOVE GRADE PIPING TO ALLOW COMPLETE DRAINAGE. 3.4. DOMESTIC COLD WATER PIPING: COPPER TUBE, HARD DRAWN, TYPE "L" WITH WROUGHT COPPER FITTINGS USING LEAD FREE SOLDER AND PRESSURE TESTED TO PLUMBING CODE. 3.5. BALL VALVES NPS 2 AND UNDER, SCREWED, CLASS 150, BRONZE BODY, STAINLESS STEEL BALL, PTFE TEFLON ADJUSTABLE PACKING, BRASS GLAND AND PTFE TEFLON SEAT, STEEL LEVER HANDLE, CRANE OR APPROVED EQUAL. 3.6. HANGERS AND SUPPORTS SHALL BE OF MANUFACTURED TYPE AND ASSEMBLED AS PER MANUFACTURER'S INSTRUCTIONS. DESIGN HANGERS AND SUPPORTS TO OPERATE UNDER ALL OPERATING CONDITIONS. ALLOW FOR FREE EXPANSION AND CONTRACTION AND PREVENT THE TRANSMISSION OF EXCESSIVE STRESSES INTO PIPE WORK OR CONNECTED EQUIPMENT. PROVIDE FOR VERTICAL ADJUSTMENT AFTER INSTALLATION. DESIGN SHALL BE IN ACCORDANCE WITH ANSI B31.1 AND MSS-SP58. SUPPORT FROM TOP OR BOTTOM OF STRUCTURAL MEMBERS. WHERE STRUCTURAL BEARING DOES NOT EXIST OR INSERTS ARE NOT IN SUITABLE LOCATIONS, PROVIDE SUPPLEMENTARY STRUCTURAL STEEL MEMBERS. PROVIDE ADDITIONAL SUPPORTS AT CHANGES IN PIPE DIRECTION AND FOR CONCENTRATION OF LOADS DUE TO WEIGHT OF VALVES, STRAINERS, ETC. HANGER SPACING: COPPER PIPING UP TO NPS 1/2 EVERY 5 FT, STEEL PIPING EVERY 10'. HANGERS SHALL BE WITHIN 12" OF EACH ELBOW. 3.7. PROVIDE PIPE IDENTIFICATION TO MATCH EXISTING BASE BUILDING STANDARD; IDENTIFY PIPE ON EITHER SIDE OF WALL / SLAB / ROOF PENETRATIONS, AND AT NOT LESS THAN 30' INTERVALS THROUGH LARGE ROOMS. 3.8. SHUT-OFF VALVE: BALL TYPE FOR NPS 2 ID AND SMALLER. BUTTERFLY TYPE FOR 65 MM (2-1/2") AND LARGER. 3.9. PLUMBING FIXTURES TO BE AS DWG M00-02. 4. HEATING, VENTILATION, AND COOLING 4.1. GALVANIZED STEEL DUCT LOCK FORMING QUALITY: TO ASTM A 525M, Z90 ZINC COATING. THICKNESS, FABRICATION, JOINTS AND REINFORCEMENT: TO ASHRAE AND SMACNA. ALL TRANSVERSE JOINTS AND CONNECTIONS SHALL BE SEALED WITH WATER BASED DUCT SEALANT AND TAPE. 4.2. HANGERS: ALL DUCTWORK AND HANGERS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST ASHRAE AND SMACNA RECOMMENDATIONS AND STANDARDS. 4.3. IDENTIFICATION DUCTWORK SYSTEMS STENCILLED LETTERS 50 MM (2") HIGH. DIRECTIONAL ARROWS 150 MM (6") LONG X 50 MM (2") HIGH. COLORS: BLACK, OR CO-ORDINATED WITH BASE COLOR TO ENSURE STRONG CONTRAST. 5. TESTING, ADJUSTING AND BALANCING 5.1. TEST, ADJUST AND BALANCE NEW DUCTWORK. 5.2. REPORT: PROVIDE REPORT INDICATING AIR VOLUMES AND LOCATION OF TESTING ON A COPY OF CONSTRUCTION DRAWINGS. SUBMIT 3 BOUND COPIES OF TAB REPORTS, COMPLETE WITH INDEX TABS FOR VERIFICATION AND APPROVAL OF ENGINEER. 6. FIRE PROTECTION 6.1. MULTI PURPOSE ABC TYPE DRY CHEMICAL, PRESSURIZED WITH HOSE AND SHUT OFF NOZZLE OR INTEGRAL SHUTOFF NOZZLE AND MOUNTING BRACKET.10 LB CAPACITY. 7. CONTROLS 7.1. PROVIDE ALL CONTROLS AND WIRING INCLUDING APPURTENANCES NECESSARY FOR COMPLETE AND OPERATING SYSTEM 8. LIST OF APPROVED MANUFACTURERS 8.1. AIR TERMINALS - GRILLES, REGISTERS, DIFFUSERS: E.H PRICE, TITUS, NAILOR. 8.2. ACCESS DOORS: MAXAM, MILCOR, MIFAB, ACUDOR. 8.3. AIR VENTS: HOFFMAN, MAID-O-MIST, TACO. 8.4. BALANCING AGENTS: KD ENGINEERING, MDT SYSTEMS, WESTERN MECHANICAL SYSTEMS 8.5. DRAINS-FLOOR, CLEANOUTS, PRIMERS: ZURN, ANCON, PPP, J.R-SMITH. 8.6. FANS: BROAN, GREENHECK, ACME, NUTONE, COOK. 8.7. PLUMBING FIXTURES: AMERICAN STANDARDS, KOHLER, CRANE.

- 8.8. WATER HEATERS: A.O.SMITH, STATE, RUUD-RHEEM, RINNAI.
- 8.9. FIRE EXTINGUISHERS: FLAG, NFE, WILSON & COUSINS.
- 8.10. PRESSURE WASHERS: HOTSY.
- 8.11. AIR HANDLING UNIT: ENGINEERED AIR, SILENT AIR, HAAKON.
- 8.12. ELECTRIC HEATERS:OULLET, CHROMALOX, STELPRO, QMARK.
- 8.13. GAS FIRED HEATER: MODINE, REZNOR.
- 8.14. SEWAGE PUMP: MYERS, BARNES, ZOELLER.

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TAG	SERVICE	MANUF	. AND MODEL	AIR FLO	W E.S.P.	R.P.M. V/C	/P FLA	HP	W	NOTES	DRAWI	NG NO.	DRAWING NAME
EF-1	WASHROOM, JANITOR	GREEN	IECK - CSP-A250	102	62	1000 115/6	0/1 -		83	C/W BACKDRAFT DAMPER	МО	0-01	MECHANICAL SPECIFICATIONS
EF-2	CAR WASH EXHAUST	GREENH	IECK -CW-095-VG	439	75	1722 115/6	0/1 3.4	1/6	-	C/W ECM MOTOR & REMOTE DIAL SPEED CONTROLLER	M0	0-02	MECHANICAL LEGENDS AND SCHEDULES
											M0 M0	1-01	MECHANICAL SCHEDULES MECHANICAL DETAILS
					AIR HAN	IDLING UNIT	SCHEDULE				M2	0-01	MECHANICAL PLUMBING LAYOUT
						E HEATING	HEATING			ΜርΔ	M5	0-01	MECHANICAL VENTILATION LAYOUT
	DCATION MAN		MODEL	CAPACITY (k	(W) CAPACITY	(KW) INPUT (KW)	OUTPUT (L (KW)	./S) (PA)	V/HZ/P	(AMPS) NOTES		MECHANICA	L DRAWING LEGEND
.по-1	SIDE		FWE92/DJ300	55.00	55.00	175.6	140.0	052 575.7	208/3/00		DESIGNATION	SERVICE	DESIGNATION SERVICE
					H	EATER SCHE	DULE					DOMESTIC COLD WA	TER O - PUMP
TAG	SERVICE	MANUFACTURER	TYPE	MODEL	HEATING CAI (KW)	PACITY	HP VO	LTAGE PO	ECTRICAL WER (KW)	NOTES		DOMESTIC HOT WAT	ER Image: Second state st
UH-1	WASHROOM	OUELLET	OFM ELECTRIC BASEBOARD HEATER	OFM2008	2	-	-	208/1	2			RETURN VENT	Image: Hinged gate Image: Breit stress Image: Breit s
UH-2		OUELLET	HEATER	OASU05008	5	1550	1/30	208/1	5		SAN G	SANITARY ABOVE GR	ADE O PENDANT SPRINKLER
<u> </u>					GAS UN	NIT HEATER S	CHEDULE				+oco	CLEANOUT TURNED THROUGH FLOOR	UP GAS METER
TAG	SERVICE N	MANUFACTURER	ТҮРЕ	MODEL	HEAT INPUT	HEAT OUTPUT	AIR FLOW	TAGE MOT	C ELEC OR MOTOR	NOTES		CLEANOUT ABOVE GRADE OR FLOOR BALANCING VALVE	M WATER METER T THERMOSTAT
UH-3	CAR WASH	MODINE	GAS FIRED UNIT HEATER H	DS 30SS0111FBAN	7.5	6	238 115	(HP /60/1 1 /1!	(RPM) 5 1550	DIRECT VENT, SEALED COMBUSTION		PRESSURE REDUCING VALVE BALL VALVE	FIRE DAMPER FIRE DAMPER
				F		W UNIT HEA	TER SCHEDU	LE				GATE VALVE	DIFFUSER/GRILLE TYPE SIZE
TAG	SERVICE	MANUFACTURE	R TYPE	MODEL	NET CAPACIT (KW)	Y CFM	VOLT	AGE		NOTES	-	HOSE BIB HOSE REEL	AIRFLOW UNIT HEATER HORIZONTAL
CUH-1	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEATE	R OCAU05038	5	250	208,	/3		C/W BUILT IN T-STAT	DH	DUCT HEATER	PW-1 PRESSURE WASHER
CUH-2	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEATE	R OCAU05038	5	250	208,	/3		C/W BUILT IN T-STAT			
					DOMESTIC	WATER HEAT	ER SCHEDUL	E					
TAG	MANUF. ANI	D MODEL S	OURCE FLOW	/ RATE ./S)	HEAT INPUT (KW)	V/HZ/P			NOT	TES			
DHW-1	RINNAI RL94i(VC2	837FFUD-US)	GAS 0.	606	58	120 / 60		I	NSTANTANEOUS WA	TER HEATER			
					HIGH PRES	SURE WASHE	R SCHEDULE	<u> </u>					
TAG L	DCATION SERV	VICE MANUFA	CTURER MODEL	MODE	L FLOW (L/S)	HEATING CAPACITY (KW	PRESSURE ELE (KPA) PO	CTRICAL WER (HP) AN	MP MOTOR (RPM)	V/HZ/P NOTES			
PW-1 MEG	HANICAL ROOM	H & SCENT NG AREA HO	ΓSY 942N	HH406R.	1 0.303	107	13789.5	5 1	8 1725	C/W HYDROMETER, DETERGENT DRUM, MACHINE STANI 208/60/3 DRAFT DIVERTER, MOTORIZED DAMPER, GUN WAND, HOS HOSE REEL.), E &		
I	I	I	I	PLU	JMBING FIX			DULE	I				
FIXTURE	COLD WATER (mm)	HOT WATER (mm)	SANITARY (mm) MAN	UFACTURER				SPEC	IFICATIONS				
WC-1	10	-	80 AMER	CAN STANDARD	WHITE VITREOUS C	INA FLOOR MOUNTED F ET PRO ELONGATED MO	OOR OUTLET - CADET F DEL # 215CA.054, HEAV	LUSHING SYSTEM W Y DUTY FOR ELONG	ITH POWER WASH RI	IM SIPHON FLUSHING SYSTEM - TWO PIECES SPEED CONNECT TANK ASSEMBLY RONT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.00	-)1		
LAV-1	10	10	32 AMER	CAN STANDARD	WALL HUNG BASIN -	VITREOUS CHINA - FRON	T OVERFLOW - SELF DRA	INING FAUCET LEDO LEVER - CHROME F	GE - CONTOURED BA PLATED AS 420-E280	CK AND SIDE SPLASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SING 95-ABCP.	.E		
JAN-1	10	10	40 AMER	CAN STANDARD	FLOOF	MOUNTED, 2'x2' SERVIC	E MOP SINK TERRAZZO A	S SP-900 CHICAGO	FAUCETS WALL MOU	JNTED TWO HANDEL UTILITY MOP MANUAL FAUCET AS 897-RCF.			
SH-1	15	15	40 AMER	CAN STANDARD	PRECAST TERRAZZ	O, TRANSFER TYPE SHOW STRAIN	ER FLOOR - 25mm GALV ER - SHOWER DRAIN GAS	ANIZED-BONDERIZE	D STEEL TILING FLAM AS PARIAN WDA-36	NGE ON THREE SIDES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH S.S 60, CHICAGO FAUCET AS SH-PB1-00-000.			
					C	RAINS SCHE	DULE						
TAG	MANUFACTU	IRER MODE	L COAT	ING	AREA (MM) PIPE	DIAMETER (MM)	SERVICE			NOTES			
	WATTS DRAINA	AGE FD-200-C-	A5-1 EPOXY COATE	D CAST IRON	127Ø	100Ø	FLOOR DRAIN			MECHANICAL ROOM			
FD-1		1	1		1								

					EXHAUS	ST FAN SCI	HEDULE							DRAWI	NG LIST	
TAG	SERVICE	MANUF	AND MODEL		/ E.S.P. R.P	.M. V/C	/P	FLA	НР	W		NOTES	DRAV	VING NO.	DRAW	ING NAME
FE-1	WASHROOM, JANITC	R CREENI	FCK - CSP-4250	(L/S)	(Pa) 62 10	0 115/6	0/1	_		83			N	/00-01	MECHANICA	SPECIFICATIONS
	ROOM EXHAUST			420	75 17		0/1	2.4	1/6	03			N	100-02 M	ECHANICAL LEC	ENDS AND SCHEDULES
								J.T	170				N	100-03	MECHANI	CAL SCHEDULES
							SCHEDU	II F						420-01	MECHAN	PLUMBING LAYOUT
														150-01	MECHANICAL V	ENTILATION LAYOUT
AG LO	CATION MAI	NUFACTURER	MODEL	NET COOLIN CAPACITY (K	G SENSIBLE W) CAPACITY (KV	HEATING V) INPUT (KW)	OUTPUT (KW)	AIR FLOW (L/S)	E.S.P (PA)	V/HZ/P	MCA (AMPS)	NOTES		MECHANICAL	DRAWING	LEGEND
HU-1	SIDE	NGINEERED AIR	FWE92/DJS60	33.66	33.66	175.8	140.6	1652	373.7	208/3/60	61.1	C/W DISCHARGE AIR & ROOM RE-SET				
					HFA	TFR SCHFI							DESIGNATIO	N SERVICE	DESIGNATIO	N SERVICE
					HEATING CAPAC				ELECT	RICAL				- DOMESTIC COLD WATER		
TAG	SERVICE	MANUFACTURER	TYPE	MODEL	(KW)	RPM	HP		POWER	(KW)		NOTES		DOMESTIC HOT WATERDOMESTIC HOT WATER		FAN FLOOR DRAIIN WITH
UH-1	WASHROOM	OUELLET	OFM ELECTRIC BASEBOARD HEATER	OFM2008	2	-	-	208/1		2				– VENT	() FF	HINGED GATE
UH-2 M	IECHANICAL ROOM	OUELLET	OAS SUSPENDED UNIT	OASU05008	5	1550	1/30	208/1		5			SAN	- SANITARY ABOVE GRAD	E O	PENDANT SPRINKLER
						I							G	– NATURAL GAS	0	CONCEALED SPRINKLE
					GAS UNIT	HEATER S	CHEDUL	E					+oco	CLEANOUT TURNED UP THROUGH FLOOR	⊶	GAS METER
			ТУрг		HEAT INPUT H	ΕΑΤ Ουτρυτ	AIR FLOW		ELEC	ELEC		ΝΛΤΓΟ		CLEANOUT ABOVE GRADE OR FLOOR	M	WATER METER
IAG	SERVICE		ITPE	MODEL	(KW)	(KW)	(L/S)	VULTAGE	(HP)	(RPM)		INUTES		BALANCING VALVE PRESSURE REDUCING	FD FD	
UH-3	CAR WASH	MODINE	GAS FIRED UNIT HEATER	HDS 30SS0111FBAN	7.5	6	238	115/60/1	1 /15	1550		DIRECT VENT, SEALED COMBUSTION		- BALL VALVE		
I			I				TED 22:							- GATE VALVE		DIFFUSER/GRILLE
		1		F	UKCED FLOW	UNII HEA	IER SCH	EDULE						HOSE BIB	A Ø	
TAG	SERVICE	MANUFACTURE	R TYPE	MODEL		CFM	,	VOLTAGE				NOTES	HR	HOSE REEL		UNIT HEATER HORIZONTAL
CUH-1	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEAT	ER OCAU05038	5	250		208/3			C/^	W BUILT IN T-STAT	DH	DUCT HEATER	PW-1	PRESSURE WASHER
CUH-2	COORIDOR & SCENT	OUELLET		ER OCAU05038	5	250		208/3			C/Y	W BUILT IN T-STAT				
					DOMESTIC WA	ATER HEAT	ER SCHE	DULE								
TAG	MANUF. AN	D MODEL SO	OURCE FLO	W RATE L/S)	HEAT INPUT (KW)	V/HZ/P				NOT	ES					
DHW-1	RINNAI RL94i(VC	2837FFUD-US)	GAS (0.606	58	120 / 60			INSTA	NTANEOUS WA	ER HEATER					
					HIGH PRESSU	IRE WASHE	ER SCHEE	DULE								
AG LO	CATION SEF	VICE MANUFA	CTURER MODEL	_ MODEL	FLOW	ΗΕΑΤΙΝΟ	PRESSURE		AL IP) AMP	MOTOR (RPM)	V/HZ/P	NOTES				
PW-1 MECHA	ANICAL ROOM	SH & SCENT NG AREA	5Y 942N	HH406R.1	0.303	107	13789.5	5	18	1725	208/60/3	C/W HYDROMETER, DETERGENT DRUM, MACHINE ST DRAFT DIVERTER, MOTORIZED DAMPER, GUN WAND, H HOSE REEL.	AND, OSE &			
				PLU	MBING FIXTU		CTION S	CHEDULE								
FIXTURE	COLD WATER (mm)	HOT WATER (mm)	ANITARY (mm) MAN	NUFACTURER					SPECIFIC	CATIONS						
WC-1	10	-	80 AME	RICAN STANDARD	WHITE VITREOUS CHINA	FLOOR MOUNTED FL RO ELONGATED MOE	LOOR OUTLET - C DEL # 215CA.054	CADET FLUSHING 4, HEAVY DUTY F	SYSTEM WITH F DR ELONGATED	POWER WASH RI D BOWL OPEN FR	и SIPHON FLUSH ONT WHITE SOLI	ING SYSTEM - TWO PIECES SPEED CONNECT TANK ASSEM D PLASTIC LESS COVER AS CENTOCO MODEL # 500STSC	BLY - 2.001			
LAV-1	10	10	32 AME	RICAN STANDARD	WALL HUNG BASIN - VITR	EOUS CHINA - FRON	T OVERFLOW - SI	ELF DRAINING FA	JCET LEDGE - C CHROME PI ATF	CONTOURED BAG	CK AND SIDE SPL 5-ABCP.	ASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SI	NGLE			
JAN-1	10	10	40 AMF	RICAN STANDARD	FLOOR MOI	JNTED, 2'x2' SERVICI	E MOP SINK TERF	RAZZO AS SP-900	CHICAGO FAU	CETS WALL MOL	NTED TWO HAN	DEL UTILITY MOP MANUAL FAUCET AS 897-RCF.				
-	1-				PRECAST TERRAZZO. TE	ANSFER TYPE SHOW	ER FLOOR - 25m	m GALVANIZED-B	ONDERIZED ST	EEL TILING FLAN	GE ON THREE SI	DES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH	5.5.			
5H-1	15	15	40 AME	KICAN STANDARD	,	STRAIN	ER - SHOWER DR	AIN GASEKET COI	NNECTION AS P	ARIAN WDA-366	0, CHICAGO FAU	JCET AS SH-PB1-00-000.				
					DRA		DULE									
					SI7F											
TAG	MANUFACT	JRER MODE	. COA				SERVICE					NOTES				
FD-1	WATTS DRAIN	аце FD-200-С-/	EPOXY COATE		10	שט	FLOOK DRAIN				ME	CHANICAL KOOM				
			_		• • • • · ·	~~ '		1								

					EXHAL	JST FAN SC	HEDULE							DRAW	ING LIST	
TAG	SERVICE	MANUF.	AND MODEL	AIR FLOW	(E.S.P. R.	.P.M. V/C	/P	FLA	HP	W		NOTES	DRAW	/ING NO.	DRAW	ING NAME
 FF-1	WASHROOM, JANITOR	R GREENH	FCK - CSP-A250	(L/S)	(Pd) 62	1000 115/6	0/1	_		83		C/W BACKDRAFT DAMPER	M	100-01	MECHANICA	_ SPECIFICATIONS
 	CAR WASH FXHAUST	- GREENH		439	75	1722 115/6	0/1	3.4	1/6			C/W ECM MOTOR & REMOTE DIAL SPEED CONTROLLER	M	00-02 M	IECHANICAL LEG	SENDS AND SCHEDULES
													M(00-03	MECHANI	
					AIR HAN	DLING UNIT	SCHEDU	JLE					M	20-01	MECHAN MECHANICAL	PLUMBING LAYOUT
							HEATING						M	150-01	MECHANICAL V	ENTILATION LAYOUT
		NUFACTURER	MODEL	CAPACITY (K)	G SENSIBLE N) CAPACITY (I	: HEATING KW) INPUT (KW)	OUTPUT (KW)	(L/S)	E.S.P (PA)	V/HZ/P	MCA (AMPS)	NOTES		MECHANICAL	DRAWINC	LEGEND
AHU-1 001D	SIDE EN	NGINEERED AIR	FWE92/DJS60	33.66	33.66	175.8	140.6	1652	373.7	208/3/60	61.1	C/W DISCHARGE AIR & ROOM RE-SET			DESIGNATIO	
					HE	ATER SCHE	DULE						DESIGNATION			
ТАС			דעטר	MODEI	HEATING CAPA		LID		ELECT	RICAL		ΝΟΤΕς				ΓΟΝΙ
IAU		VIAINUFACIUKEK	ITPE	IVIODEL	(KW)	KLINI			POWER	R (KW)		INUTES		DOMESTIC HOT WATER		FLOOR DRAIIN WITH
UH-1	WASHROOM	OUELLET	OFM ELECTRIC BASEBOARD HEATER	OFM2008	2	-	-	208/1		2			V	- VENT	FE	FIRE EXTINGUISHER
UH-2 N	IECHANICAL ROOM	OUELLET	OAS SUSPENDED UNIT HEATER	OASU05008	5	1550	1/30	208/1		5			SAN	- SANITARY ABOVE GRAD	DE O	PENDANT SPRINKLER
I			I			I			I	I			G	- NATURAL GAS	0	CONCEALED SPRINKI
					GAS UN	T HEATER S	CHEDUL	.E					+oco	CLEANOUT TURNED UP THROUGH FLOOR		GAS METER
TAG		MANUFACTURFR	TYPF	MODFI	HEAT INPUT	HEAT OUTPUT	AIR FLOW	VOI TAGE	ELEC MOTOR	ELEC MOTOR		NOTES		GRADE OR FLOOR	(M) (T)	WATER METER
					(KW)	(KW)	(L/S)		(HP)	(RPM)				PRESSURE REDUCING	FD FD	FIRE DAMPER
UH-3	CAR WASH	MODINE	GAS FIRED UNIT HEATER	HDS 30SS0111FBAN	7.5	6	238	115/60/1	1 /15	1550		DIRECT VENT, SEALED COMBUSTION		BALL VALVE		BALANCING DAMPER
							TEB ՀՆՈ							GATE VALVE		DIFFUSER/GRILLE
														HOSE BIB	A L/S	AIRFLOW
TAG	SERVICE	MANUFACTURE	R TYPE	MODEL	INET CAPACITY (KW)	CFM	,	VOLTAGE				NOTES	HR	HOSE REEL		UNIT HEATER HORIZONTAL
CUH-1	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEAT	ER OCAU05038	5	250		208/3			C,	/W BUILT IN T-STAT	DH	DUCT HEATER	PW-1	PRESSURE WASHER
CUH-2	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEAT	ER OCAU05038	5	250		208/3			C,	/W BUILT IN T-STAT				
				L												
TAG	MANUF. ANI	D MODEL SC	OURCE FLOY	W RATE (L/S)	HEAT INPUT (KW)	V/HZ/P				NOT	ES					
DHW-1	RINNAI RL94i(VC2	2837FFUD-US)	GAS	0.606	58	120 / 60			INSTA	ANTANEOUS WA	TER HEATER					
					HIGH PRESS	SURE WASHE	ER SCHEE	DULE								
AG LO	CATION SERV	VICE MANUFA	CTURER MODEL	L MODEL	FLOW (L/S)	HEATING CAPACITY (KW	PRESSURE) (KPA)	E ELECTRIC POWER (H	AL HP) AMP	MOTOR (RPM)	V/HZ/P	NOTES				
PW-1 MECH/		H & SCENT NG AREA HOT	SY 942N	HH406R.1	0.303	107	13789.5	5	18	1725	208/60/3	C/W HYDROMETER, DETERGENT DRUM, MACHINE STANI DRAFT DIVERTER, MOTORIZED DAMPER, GUN WAND, HOS HOSE REEL.), E &			
				PLU	MBING FIXT	JRE CONNE	CTION S	CHEDULE								
FIXTURE	COLD WATER (mm)	HOT WATER (mm)	GANITARY (mm) MAN	NUFACTURER					SPECIFIC	CATIONS						
WC-1	10	-	80 AME	RICAN STANDARD	WHITE VITREOUS CHIN	NA FLOOR MOUNTED F	LOOR OUTLET - C DEL # 215CA.054	CADET FLUSHING 4, HEAVY DUTY FO	SYSTEM WITH F	POWER WASH RI D BOWL OPEN FR	M SIPHON FLUSH	HING SYSTEM - TWO PIECES SPEED CONNECT TANK ASSEMBLY ID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.04	-)1			
LAV-1	10	10	32 AME	RICAN STANDARD	WALL HUNG BASIN - V	ITREOUS CHINA - FRON	T OVERFLOW - SI	ELF DRAINING FAI LEVER -	UCET LEDGE - C CHROME PLATE	CONTOURED BA	CK AND SIDE SP 5-ABCP.	LASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SING	E			
JAN-1	10	10	40 AME	RICAN STANDARD	FLOOR M	IOUNTED, 2'x2' SERVIC	E MOP SINK TERF	RAZZO AS SP-900	CHICAGO FAUG	CETS WALL MOU	INTED TWO HA	NDEL UTILITY MOP MANUAL FAUCET AS 897-RCF.				
<u>сн_1</u>	15	15	40 ^^/	RICAN STANDAPD	PRECAST TERRAZZO,	TRANSFER TYPE SHOW	ER FLOOR - 25m	IM GALVANIZED-B	BONDERIZED ST		NGE ON THREE S	IDES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH S.S				
						STRAIN	ER - SHOWER DR	AIN GASEKET COI	NNECTION AS P	PARIAN WDA-36	50, CHICAGO FA	UCET AS SH-PB1-00-000.				
					DR	AINS SCHE	DULE									
					SIZE											
		JRER MODE	_ COA		REA (MM) PIPE DIA	AMETER (MM)	SERVICE					NOTES				
TAG				•	•								1			
TAG		AGE FD-200-C-/		ED CAST IRON	127Ø	100Ø	FLOOR DRAIN					ECHANICAL ROOM				

				EXHAUS	T FAN SCH	IEDULE					DRAW	VING LIST
			AIR FLOW	E.S.P.		D C			\\/	ΝΟΤΕς	DRAWING NO.	DRAWING NAME
		MANUF. AND MODEL	(L/S)	(Pa)					VV	NOTES	M00-01	MECHANICAL SPECIFICATIONS
EF-1	ROOM EXHAUST	GREENHECK - CSP-A250	102	62 100	0 115/60/	/1	-	-	83	C/W BACKDRAFT DAMPER	M00-02	MECHANICAL LEGENDS AND SCHEDULES
EF-2	CAR WASH EXHAUST	GREENHECK -CW-095-VG	439	75 172	2 115/60/	/1	3.4	1/6	-	C/W ECM MOTOR & REMOTE DIAL SPEED CONTROLLER	M00-03	MECHANICAL SCHEDULES
											M01-01	MECHANICAL DETAILS
							_E				M20-01	
TAG	OCATION MANUE	ACTURER MODEL	NET COOLING CAPACITY (KW)	SENSIBLE CAPACITY (KW	/) INPUT (KW)	OUTPUT (KW)	AIR FLOW (L/S)	E.S.P (PA) V/	ΉΖ/Ρ	MCA (AMPS) NOTES	MECHANICAI	L DRAWING LEGEND
AHU-1 Ol	ITDOOR SOUTH SIDE	ERED AIR FWE92/DJS60	33.66	33.66	175.8	140.6	1652	373.7 20	8/3/60	61.1 C/W DISCHARGE AIR & ROOM RE-SET		
				HFA	TER SCHED						DESIGNATION SERVICE	DESIGNATION SERVICE
			H	EATING CAPACI				ELECTRI	CAL		DOMESTIC COLD WAT	FER Image: Second sec
TAG	SERVICE MAN	UFACTURER TYPE	MODEL	(KW)	RPM	HP	VOLTAGE	POWER	(KW)	NOTES	DOMESTIC HOT WATE	ER 🛞 FAN FLOOR DRAIIN WITH
UH-1	WASHROOM	OUELLET OFM ELECTRIC BASEBOARD HEATE	R OFM2008	2	-	-	208/1	2			RETURN VENT	Image: Hinged gate (b) FE FIRE FXTINGLIISHER
UH-2	MECHANICAL ROOM	OUELLET OAS SUSPENDED UN	NIT OASU05008	5	1550	1/30	208/1	5			SAN SANITARY ABOVE GRA	ADE O PENDANT SPRINKLER
											G NATURAL GAS	© CONCEALED SPRINKL
				GAS UNIT	HEATER SC	CHEDULE	Ē				CLEANOUT TURNED U THROUGH FLOOR	JP GAS METER
TAC			H	IEAT INPUT HE		AIR FLOW		ELEC	ELEC	NATES	CLEANOUT ABOVE GRADE OR FLOOR	M WATER METER
IAG	SERVICE MAN	UFACIUKER TYPE	MODEL	(KW)	(KW)	(L/S)	VULTAGE	₩ŬTOK 『 (HP)	(RPM)	NOTES	BALANCING VALVE	T THERMOSTAT
UH-3	CAR WASH	MODINE GAS FIRED UNIT HEATER	HDS 30SS0111FBAN	7.5	6	238	115/60/1	1 /15	1550	DIRECT VENT, SEALED COMBUSTION		
					· · · · · · · · · · · · ·			1			GATE VALVE	
	1	I	FOF	RCED FLOW	UNIT HEAT	ER SCHE					HOSE BIB	A Ø SIZE L/S AIRFLOW
TAG	SERVICE M	ANUFACTURER TYPE	MODEL		CFM	v	OLTAGE			NOTES	HR HOSE REEL	UNIT HEATER HORIZONTAL
CUH-1	COORIDOR & SCENT	OUELLET OCA FORCED	O-AIR UEATED OCAU05038	5	250		208/3			C/W BUILT IN T-STAT	DH DUCT HEATER	PW-1 PRESSURE WASHER
	COORIDOR & SCENT	OUFLIET OCA FORCED		ς	250		208/3			C/W RIIIIT IN T-STAT		
<u>соп-</u> 2	TRAINING AREA	CABINET UNIT H	HEATER	J	200		200/3					
			DC	OMESTIC WA	TER HEATE	ER SCHEI	DULE					
TAG	MANUF. AND M	ODEL SOURCE F	LOW RATE HE (L/S)	EAT INPUT (KW)	V/HZ/P				NOTI	ES		
DHW-1	RINNAI RL94i(VC2837F	FUD-US) GAS	0.606	58	120 / 60			INSTANT	ANEOUS WAT	ER HEATER		
		I	H	IIGH PRESSU	RE WASHEF	R SCHED	ULE					
TAG I	OCATION SERVIC	MANUFACTURER MO	DEL MODEL	FLOW	HEATING APACITY (KW)	PRESSURE (KPA)	ELECTRICA POWFR (H	AL P) AMP	MOTOR (RPM)	V/HZ/P NOTES		
PW-1 ME	CAR WASH & S TRAINING AI	EA HOTSY 94	2N HH406R.1	0.303	107	13789.5	5	18	1725	C/W HYDROMETER, DETERGENT DRUM, MACHINE STAND, 208/60/3 DRAFT DIVERTER, MOTORIZED DAMPER, GUN WAND, HOSE & HOSE REEL.		
			PLUMI	BING FIXTUR	RE CONNEC	CTION SC	CHEDULE					
		OT WATER SANITARY	ANUFACTURER					SPECIFICA	TIONS			
FIXTURE	COLD WATER H (mm)	(mm) (mm) ^M							/FR W/ASH RIM	1 SIPHON FLUSHING SYSTEM - TWO PIECES SPEED CONNECT TANK ASSEMBLY -		
FIXTURE WC-1	COLD WATER H (mm)	(mm) (mm) ^M - 80	AMERICAN STANDARD	/HITE VITREOUS CHINA F NED TANK AS CADET PR	LOOR MOUNTED FLC	OOR OUTLET - CA EL # 215CA.054,	ADET FLUSHING S HEAVY DUTY FO	SYSTEM WITH POW R ELONGATED BC	WL OPEN FRO	ONT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.001		
FIXTURE WC-1 LAV-1	COLD WATER (mm)H1010	(mm) (mm) - 80 10 32	AMERICAN STANDARD	/HITE VITREOUS CHINA F NED TANK AS CADET PR ALL HUNG BASIN - VITRE	ELOOR MOUNTED FLO O ELONGATED MODE EOUS CHINA - FRONT	OOR OUTLET - CA EL # 215CA.054, OVERFLOW - SEL	ADET FLUSHING S HEAVY DUTY FO F DRAINING FAU LEVER - C	SYSTEM WITH POW R ELONGATED BC CET LEDGE - CON CHROME PLATED A	TOURED BAC	ONT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.001 K AND SIDE SPLASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SINGLE -ABCP.		
FIXTURE WC-1 LAV-1 JAN-1	COLD WATER (mm)H10101010	(mm) (mm) - 80 10 32 10 40	AMERICAN STANDARD	/HITE VITREOUS CHINA F NED TANK AS CADET PR ALL HUNG BASIN - VITRE FLOOR MOU	ELOOR MOUNTED FLC O ELONGATED MODE EOUS CHINA - FRONT NTED, 2'x2' SERVICE	OOR OUTLET - CA EL # 215CA.054, OVERFLOW - SEL MOP SINK TERRA	ADET FLUSHING S HEAVY DUTY FO F DRAINING FAU LEVER - C	SYSTEM WITH POW R ELONGATED BC CET LEDGE - CON CHROME PLATED A CHICAGO FAUCET	TOURED BAC AS 420-E2805 S WALL MOUI	ONT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.001 K AND SIDE SPLASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SINGLE -ABCP.		
FIXTURE WC-1 LAV-1 JAN-1	COLD WATER (mm) H 10 10 10 10 10 10 10 10 10 10 10 10	(mm) (mm) - 80 10 32 10 40 15 40	AMERICAN STANDARD	/HITE VITREOUS CHINA F NED TANK AS CADET PR ALL HUNG BASIN - VITRE FLOOR MOU	ELOOR MOUNTED FLO O ELONGATED MODE EOUS CHINA - FRONT NTED, 2'x2' SERVICE I	OOR OUTLET - CA EL # 215CA.054, OVERFLOW - SEL MOP SINK TERRA R FLOOR - 25mm	ADET FLUSHING S HEAVY DUTY FO F DRAINING FAU LEVER - C AZZO AS SP-900 C	CET LEDGE - CON CET LEDGE - CON CHROME PLATED A CHICAGO FAUCET	TOURED BAC AS 420-E2805 S WALL MOUI	ONT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.001 K AND SIDE SPLASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SINGLE -ABCP. NTED TWO HANDEL UTILITY MOP MANUAL FAUCET AS 897-RCF. GE ON THREE SIDES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH S.S.		
FIXTURE WC-1 LAV-1 JAN-1 SH-1	COLD WATER (mm)H1010101010101510	(mm) (mm) - 80 10 32 10 40 15 40	AMERICAN STANDARD	/HITE VITREOUS CHINA F NED TANK AS CADET PR ALL HUNG BASIN - VITRE FLOOR MOU	ELOOR MOUNTED FLO O ELONGATED MODE EOUS CHINA - FRONT NTED, 2'x2' SERVICE ANSFER TYPE SHOWEF STRAINEF	OOR OUTLET - CA EL # 215CA.054, OVERFLOW - SEL MOP SINK TERRA R FLOOR - 25mm R - SHOWER DRAI	ADET FLUSHING S HEAVY DUTY FO F DRAINING FAU LEVER - C AZZO AS SP-900 C GALVANIZED-BC IN GASEKET CON	OYSTEM WITH POW R ELONGATED BC CET LEDGE - CON CHROME PLATED A CHICAGO FAUCET DNDERIZED STEEL NECTION AS PARI	TOURED BAC TOURED BAC AS 420-E2805 S WALL MOUI TILING FLAN AN WDA-366	ONT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.001 K AND SIDE SPLASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SINGLE -ABCP. NTED TWO HANDEL UTILITY MOP MANUAL FAUCET AS 897-RCF. GE ON THREE SIDES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH S.S. 0, CHICAGO FAUCET AS SH-PB1-00-000.		
FIXTURI WC-1 LAV-1 JAN-1 SH-1	COLD WATER (mm)H1010101010101015	(mm) (mm) - 80 10 32 10 40 15 40	AMERICAN STANDARD WAAMERICAN STANDARD AMERICAN STANDARD PAGENICAN STANDARD P	/HITE VITREOUS CHINA F NED TANK AS CADET PR ALL HUNG BASIN - VITRE FLOOR MOU PRECAST TERRAZZO, TRA	ELOOR MOUNTED FLO O ELONGATED MODE EOUS CHINA - FRONT NTED, 2'x2' SERVICE I ANSFER TYPE SHOWEF STRAINEF	OOR OUTLET - CA EL # 215CA.054, OVERFLOW - SEL MOP SINK TERRA R FLOOR - 25mm R - SHOWER DRAI	ADET FLUSHING S HEAVY DUTY FO F DRAINING FAU LEVER - C AZZO AS SP-900 C GALVANIZED-BC IN GASEKET CON	CET LEDGE - CON CET LEDGE - CON CHROME PLATED A CHICAGO FAUCET DNDERIZED STEEL NECTION AS PARI	TOURED BAC TOURED BAC AS 420-E2805 S WALL MOUI TILING FLAN AN WDA-366	ONT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.001 K AND SIDE SPLASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SINGLE -ABCP. NTED TWO HANDEL UTILITY MOP MANUAL FAUCET AS 897-RCF. GE ON THREE SIDES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH S.S. 0, CHICAGO FAUCET AS SH-PB1-00-000.		
FIXTURI WC-1 LAV-1 JAN-1 SH-1 TAG	COLD WATER (mm) H 10 10 10 10 10 15 MANUFACTURE	(mm) (mm) N - 80 10 10 32 10 10 40 10 15 40 10 MODEL Colspan="2">Colspan="2"	AMERICAN STANDARD W AMERICAN STANDARD AMERICAN STANDARD P AMERICAN STANDARD P OATING ARFA	ALL HUNG BASIN - VITRE FLOOR MOU PRECAST TERRAZZO, TRA DRA SIZE	ELOOR MOUNTED FLC O ELONGATED MODE EOUS CHINA - FRONT NTED, 2'x2' SERVICE I ANSFER TYPE SHOWEF STRAINEF	DOR OUTLET - CA EL # 215CA.054, OVERFLOW - SEL MOP SINK TERRA R FLOOR - 25mm R - SHOWER DRAI OULE	ADET FLUSHING S HEAVY DUTY FO F DRAINING FAU LEVER - C AZZO AS SP-900 C N GALVANIZED-BC IN GASEKET CON	CET LEDGE - CON CET LEDGE - CON CHROME PLATED A CHICAGO FAUCET DNDERIZED STEEL NECTION AS PARI	TOURED BAC TOURED BAC AS 420-E2805 S WALL MOUI TILING FLAN AN WDA-366	NT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.001 K AND SIDE SPLASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SINGLE -ABCP. NTED TWO HANDEL UTILITY MOP MANUAL FAUCET AS 897-RCF. GE ON THREE SIDES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH S.S. 0, CHICAGO FAUCET AS SH-PB1-00-000.		
FIXTURI WC-1 LAV-1 JAN-1 SH-1 TAG	COLD WATER (mm) H 10 10 10 10 10 10 10 10 10 15 MANUFACTUREE WATTS DRAINAGE	(mm) (mm) N - 80 10 10 32 10 10 40 10 15 40 10 FD-200-C-A5-1	AMERICAN STANDARD W/ AMERICAN STANDARD AMERICAN STANDARD P AMERICAN STANDARD P OATING AREA OATED CAST IRON 12	ALL HUNG BASIN - VITRE FLOOR MOU PRECAST TERRAZZO, TRA DRA SIZE A (MM) PIPE DIAME	ELOOR MOUNTED FLC O ELONGATED MODE EOUS CHINA - FRONT NTED, 2'x2' SERVICE I ANSFER TYPE SHOWEF STRAINEF INS SCHED	DOR OUTLET - CA EL # 215CA.054, OVERFLOW - SEL MOP SINK TERRA R FLOOR - 25mm R - SHOWER DRAI OULE SERVICE	ADET FLUSHING S HEAVY DUTY FO -F DRAINING FAU LEVER - C AZZO AS SP-900 C n GALVANIZED-BC IN GASEKET CON	CET LEDGE - CON CET LEDGE - CON CHROME PLATED A CHICAGO FAUCET DNDERIZED STEEL NECTION AS PARI	TOURED BAC AS 420-E2805 S WALL MOUI TILING FLAN AN WDA-366	NT WHITE SOLID PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.001 K AND SIDE SPLASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SINGLE -ABCP. NTED TWO HANDEL UTILITY MOP MANUAL FAUCET AS 897-RCF. GE ON THREE SIDES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH S.S. 0, CHICAGO FAUCET AS SH-PB1-00-000. NOTES MECHANICAL ROOM		

					EXHAUS	ST FAN SCI	HEDULE							DRAWI	NG LIST	
TAG	SERVICE	MANUF	AND MODEL		/ E.S.P. R.P	.M. V/C	/P	FLA	НР	W		NOTES	DRAV	VING NO.	DRAW	ING NAME
FE-1	WASHROOM, JANITC	R CREENI	FCK - CSP-4250	(L/S)	(Pa) 62 10	0 115/6	0/1	_		83			N	/00-01	MECHANICA	SPECIFICATIONS
	ROOM EXHAUST			420	75 17		0/1	2.4	1/6	03			N	100-02 M	ECHANICAL LEC	ENDS AND SCHEDULES
								J.T	170				N	100-03	MECHANI	CAL SCHEDULES
							SCHEDU	II F						420-01	MECHAN	PLUMBING LAYOUT
														150-01	MECHANICAL V	ENTILATION LAYOUT
AG LO	CATION MAI	NUFACTURER	MODEL	NET COOLIN CAPACITY (K	G SENSIBLE W) CAPACITY (KV	HEATING V) INPUT (KW)	OUTPUT (KW)	AIR FLOW (L/S)	E.S.P (PA)	V/HZ/P	MCA (AMPS)	NOTES		MECHANICAL	DRAWING	LEGEND
HU-1	SIDE	NGINEERED AIR	FWE92/DJS60	33.66	33.66	175.8	140.6	1652	373.7	208/3/60	61.1	C/W DISCHARGE AIR & ROOM RE-SET				
					HFA	TFR SCHFI							DESIGNATIO	N SERVICE	DESIGNATIO	N SERVICE
					HEATING CAPAC				ELECT	RICAL				- DOMESTIC COLD WATER		
TAG	SERVICE	MANUFACTURER	TYPE	MODEL	(KW)	RPM	HP	VOLTAGE	POWER	(KW)		NOTES		DOMESTIC HOT WATERDOMESTIC HOT WATER		FAN FLOOR DRAIIN WITH
UH-1	WASHROOM	OUELLET	OFM ELECTRIC BASEBOARD HEATER	OFM2008	2	-	-	208/1		2				– VENT	() FF	HINGED GATE
UH-2 M	IECHANICAL ROOM	OUELLET	OAS SUSPENDED UNIT	OASU05008	5	1550	1/30	208/1		5			SAN	- SANITARY ABOVE GRAD	E O	PENDANT SPRINKLER
						I							G	– NATURAL GAS	0	CONCEALED SPRINKLE
					GAS UNIT	HEATER S	CHEDUL	E					+oco	CLEANOUT TURNED UP THROUGH FLOOR	⊶	GAS METER
			ТУрг		HEAT INPUT H	ΕΑΤ Ουτρυτ	AIR FLOW		ELEC	ELEC		ΝΛΤΓΟ		CLEANOUT ABOVE GRADE OR FLOOR	M	WATER METER
IAG	SERVICE		ITPE	MODEL	(KW)	(KW)	(L/S)	VULTAGE	(HP)	(RPM)		INUTES		BALANCING VALVE PRESSURE REDUCING	FD FD	
UH-3	CAR WASH	MODINE	GAS FIRED UNIT HEATER	HDS 30SS0111FBAN	7.5	6	238	115/60/1	1 /15	1550		DIRECT VENT, SEALED COMBUSTION		- BALL VALVE		
I			I				TED 22:							- GATE VALVE		DIFFUSER/GRILLE
		1		F	UKCED FLOW	UNII HEA	IER SCH	EDULE						HOSE BIB	A Ø	
TAG	SERVICE	MANUFACTURE	R TYPE	MODEL		CFM	,	VOLTAGE				NOTES	HR	HOSE REEL		UNIT HEATER HORIZONTAL
CUH-1	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEAT	ER OCAU05038	5	250		208/3			C/^	W BUILT IN T-STAT	DH	DUCT HEATER	PW-1	PRESSURE WASHER
CUH-2	COORIDOR & SCENT	OUELLET		ER OCAU05038	5	250		208/3			C/Y	W BUILT IN T-STAT				
					DOMESTIC WA	ATER HEAT	ER SCHE	DULE								
TAG	MANUF. AN	D MODEL SO	OURCE FLO	W RATE L/S)	HEAT INPUT (KW)	V/HZ/P				NOT	ES					
DHW-1	RINNAI RL94i(VC	2837FFUD-US)	GAS (0.606	58	120 / 60			INSTA	NTANEOUS WA	ER HEATER					
					HIGH PRESSU	IRE WASHE	ER SCHEE	DULE								
AG LO	CATION SEF	VICE MANUFA	CTURER MODEL	_ MODEL	FLOW	ΗΕΑΤΙΝΟ	PRESSURE		AL IP) AMP	MOTOR (RPM)	V/HZ/P	NOTES				
PW-1 MECHA	ANICAL ROOM	SH & SCENT NG AREA	5Y 942N	HH406R.1	0.303	107	13789.5	5	18	1725	208/60/3	C/W HYDROMETER, DETERGENT DRUM, MACHINE ST DRAFT DIVERTER, MOTORIZED DAMPER, GUN WAND, H HOSE REEL.	AND, OSE &			
				PLU	MBING FIXTU		CTION S	CHEDULE								
FIXTURE	COLD WATER (mm)	HOT WATER (mm)	ANITARY (mm) MAN	NUFACTURER					SPECIFIC	CATIONS						
WC-1	10	-	80 AME	RICAN STANDARD	WHITE VITREOUS CHINA	FLOOR MOUNTED FL RO ELONGATED MOE	LOOR OUTLET - C DEL # 215CA.054	CADET FLUSHING 4, HEAVY DUTY F	SYSTEM WITH F DR ELONGATED	POWER WASH RI D BOWL OPEN FR	и SIPHON FLUSH ONT WHITE SOLI	ING SYSTEM - TWO PIECES SPEED CONNECT TANK ASSEM D PLASTIC LESS COVER AS CENTOCO MODEL # 500STSC	BLY - 2.001			
LAV-1	10	10	32 AME	RICAN STANDARD	WALL HUNG BASIN - VITR	EOUS CHINA - FRON	T OVERFLOW - SI	ELF DRAINING FA	JCET LEDGE - C CHROME PI ATF	CONTOURED BAG	CK AND SIDE SPL 5-ABCP.	ASH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SI	NGLE			
JAN-1	10	10	40 AMF	RICAN STANDARD	FLOOR MOI	JNTED, 2'x2' SERVICI	E MOP SINK TERF	RAZZO AS SP-900	CHICAGO FAU	CETS WALL MOL	NTED TWO HAN	DEL UTILITY MOP MANUAL FAUCET AS 897-RCF.				
-	1-				PRECAST TERRAZZO. TE	ANSFER TYPE SHOW	ER FLOOR - 25m	m GALVANIZED-B	ONDERIZED ST	EEL TILING FLAN	GE ON THREE SI	DES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH	5.5.			
5H-1	15	15	40 AME	KICAN STANDARD	,	STRAIN	ER - SHOWER DR	AIN GASEKET COI	NNECTION AS P	ARIAN WDA-366	0, CHICAGO FAU	JCET AS SH-PB1-00-000.				
					DRA		DULE									
					SI7F											
TAG	MANUFACT	JRER MODE	. COA				SERVICE					NOTES				
FD-1	WATTS DRAIN	аце FD-200-С-/	EPOXY COATE		10	שט	FLOOK DRAIN				ME	CHANICAL KOOM				
			_		• • • • · ·	~~ '		1								

					EXHAUST	FAN SCH	EDULE							DRAW	/ING LIST	
TAG	SERVICE	MANUF	AND MODEL	AIR FLOW	E.S.P.	V/C/P	D	FLA	НР	W		NOTES	DRA	WING NO.	DRAWI	NG NAME
	WASHROOM, IANITOR			(L/S)	(Pa)		/1		•••					M00-01	MECHANICAL	SPECIFICATIONS
EF-1	ROOM EXHAUST	GREENH	-CK - CSP-A250	102	62 1000	115/60/	· 1	-	-	83				M00-02	MECHANICAL LEG	ENDS AND SCHEDULES
EF-2	CAR WASH EXHAUST	GREENHI	.CK -CW-095-VG	439	75 1722	115/60/		3.4	1/6	-	C/V	V ECM MOTOR & REMOTE DIAL SPEED CONTROLLER		M00-03	MECHANIC	AL SCHEDULES
														M01-01	MECHAN	
<u> </u>														M20-01		PLUMBING LAYOUT
G LO	CATION MANU	UFACTURER	MODEL	NET COOLING CAPACITY (KW)	SENSIBLE CAPACITY (KW)	HEATING	OUTPUT (KW)	AIR FLOW (L/S)	E.S.P (PA)	V/HZ/P	MCA (AMPS)	NOTES		MECHANICAI	- DRAWING	LEGEND
-1 OUTE	OOR SOUTH ENC	GINEERED AIR	FWE92/DJS60	33.66	33.66	175.8	140.6	1652	373.7	208/3/60	61.1	C/W DISCHARGE AIR & ROOM RE-SET				
					HEAT	ER SCHED	ULE							DOMESTIC COLD WAT	TER Q Total	PUMP
AG	SERVICE M		TYPF	MODEI	EATING CAPACIT	Y RPM	НР		ELEC			NOTES		- DOMESTIC HOT WATE	.R (⊛7	FAN
-					(KW)				POWE	K (KW)				DOMESTIC HOT WATER RETURN		FLOOR DRAIIN WITH HINGED GATE
H-1	WASHROOM	OUELLET	BASEBOARD HEATER	OFM2008	2	-	-	208/1		2			V	VENT	() FE	FIRE EXTINGUISHER
H-2 ľ	ECHANICAL ROOM	OUELLET	OAS SUSPENDED UNIT HEATER	OASU05008	5	1550	1/30	208/1		5			SAN	— SANITARY ABOVE GRA	NDE O	PENDANT SPRINKLEF
							- וורהייי						G			
					GAS UNIT I			. Ľ						CLEANOUT ABOVE		WATER METER
AG	SERVICE M	ANUFACTURER	TYPE	MODEL	EAT INPUT HEA	ΑΤ ΟUTPUT A	AIR FLOW	VOLTAGE	MOTOR	MOTOR		NOTES		BALANCING VALVE	T	THERMOSTAT
		MODINE	GAS FIRED UNIT	S 200001115241			(L/ J)	115/00/1	(HP)	(RPM)				PRESSURE REDUCING		FIRE DAMPER
⊐-3	CAK WASH	MODINE	HEATER	202201111-BAN	/.5	6	238	115/60/1	1/15	1550		DIRECT VENT, SEALED COMBUSTION		— BALL VALVE	BD F F F	BALANCING DAMPER
				FOF	RCED FLOW L	INIT HEAT	ER SCH	EDULE						GATE VALVE		DIFFUSER/GRILLE TYPE SIZE
			_											HOSE BIB		
AG	SERVICE	MANUFACTURE	R TYPE	MODEL	(KW)	CFM		VOLTAGE				NOTES	HR	HOSE REEL		HORIZONTAL
JH-1	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEATER	OCAU05038	5	250		208/3			C/W	BUILT IN T-STAT	DH	DUCT HEATER	PW-1	PRESSURE WASHER
JH-2	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEATER	OCAU05038	5	250		208/3			C/W	BUILT IN T-STAT				
				DC		ER HEATF	R SCHF	DULE								
			FI OW	RATE HF	EAT INPUT											
ſAG	MANUF. AND	D MODEL SC	URCE (L/	/S)	(KW)	V/HZ/P				NO	ES					
DHW-1	RINNAI RL94i(VC28	837FFUD-US)	GAS 0.6	506	58	120 / 60			INST	ANTANEOUS WA	TER HEATER					
				Н	IIGH PRESSUR	RE WASHER	R SCHED	DULE								
G LO	CATION SERV	VICE MANUFA	CTURER MODEL	MODEL	FLOW (L/S) CA	HEATING PACITY (KW)	PRESSURE (KPA)	E ELECTRICA POWER (H	AL P) AMP	MOTOR (RPM)	V/HZ/P	NOTES				
-1 MECH,	NICAL ROOM	H & SCENT NG AREA HOT	SY 942N	HH406R.1	0.303	107	13789.5	5	18	1725	208/60/3	C/W HYDROMETER, DETERGENT DRUM, MACHINE ST DRAFT DIVERTER, MOTORIZED DAMPER, GUN WAND, H HOSE REEL.	ND, OSE &			
	I		I	PLUMI	BING FIXTUR		TION S	CHEDULE								
XTURE	COLD WATER (mm)	HOT WATER S (mm)	ANITARY (mm) MANU	JFACTURER					SPECIFI	CATIONS						
WC-1	10	-	80 AMERIC	CAN STANDARD	HITE VITREOUS CHINA FLONED TANK AS CADET PRO	OOR MOUNTED FLO	OR OUTLET - C L # 215CA.054	CADET FLUSHING S 4, HEAVY DUTY FC	YSTEM WITH R ELONGATE	POWER WASH R D BOWL OPEN F	IM SIPHON FLUSHIN RONT WHITE SOLID	IG SYSTEM - TWO PIECES SPEED CONNECT TANK ASSEM PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCO	LY - .001			
LAV-1	10	10	32 AMERIC	CAN STANDARD	ALL HUNG BASIN - VITREO	US CHINA - FRONT (OVERFLOW - SE	ELF DRAINING FAU LEVER - C	CET LEDGE - HROME PLAT	CONTOURED BA	CK AND SIDE SPLAS	SH SHIELD AS LUCERNE 0355.012, CHICAGO FAUCET SI	IGLE			
	10	10	40 AMERIC	CAN STANDARD	FLOOR MOUN	TED, 2'x2' SERVICE N	MOP SINK TERR	RAZZO AS SP-900 (CHICAGO FAU	JCETS WALL MO	JNTED TWO HAND	EL UTILITY MOP MANUAL FAUCET AS 897-RCF.				
JAN-1	15	15	40 AMERIC	CAN STANDARD	PRECAST TERRAZZO, TRAN	ISFER TYPE SHOWER STRAINER	R FLOOR - 25m R - SHOWER DR	m GALVANIZED-BO AIN GASEKET CON	ONDERIZED S	TEEL TILING FLA PARIAN WDA-36	NGE ON THREE SID 60, CHICAGO FAUC	ES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH CET AS SH-PB1-00-000.	5.S.			
JAN-1 				1	DRAI		ULE									
JAN-1 SH-1					\$17F											
JAN-1 SH-1			1	1	JILL	c	SERVICE				Ν	IOTES				
JAN-1 SH-1	MANUFACTU	RER MODEI	. COATI	NG	(MM) PIPE DIAMETI	ER (MM)										
JAN-1 SH-1 TAG FD-1	MANUFACTUF WATTS DRAINAG	RER MODEI	. COATI 5-1 EPOXY COATED	NG AREA CAST IRON 12	(MM) PIPE DIAMETI 27Ø 1000	ER (MM)	OOR DRAIN				MEC	HANICAL ROOM				

					EXHAUS	FAN SCH	IEDULE							DRAW	ING LIST	
				AIR FLOW	E.S.P.		P					NOTEC				NC NAME
	SERVICE	MANUF.		(L/S)	(Pa) R.P.N	I. V/C/		FLA	HP	VV		NUTES		0-01	MECHANICAL	
EF-1	ROOM EXHAUST	GREENH	ECK - CSP-A250	102	62 1000	115/60,	/1	-	-	83		C/W BACKDRAFT DAMPER	M0	0-02 N	MECHANICAL LEG	ENDS AND SCHEDULES
EF-2	CAR WASH EXHAUST	GREENH	ECK -CW-095-VG	439	75 1722	115/60,	/1	3.4	1/6	-	C/\	V ECM MOTOR & REMOTE DIAL SPEED CONTROLLER	M0	0-03	MECHANIC	AL SCHEDULES
													M0	1-01	MECHAN	ICAL DETAILS
					AIR HANDL	NG UNIT S	SCHEDU	JLE					M2	0-01	MECHANICAL	PLUMBING LAYOUT
				NET COOLING	SENSIBLE	HEATING	HEATING	AIR FLOW	E.S.P		MCA	NOTEC	M5	0-01	MECHANICAL VI	ENTILATION LAYOUT
	CATION MAN	NUFACIURER	MODEL	CAPACITY (KW)	() CAPACITY (KW)	INPUT (KW)	(KW)	(L/S)	(PA)	V/HZ/P	(AMPS)	NOTES		MECHANICAL	DRAWING	LEGEND
J-1 OUT	DOOR SOUTH EN	NGINEERED AIR	FWE92/DJS60	33.66	33.66	175.8	140.6	1652	373.7	208/3/60	61.1	C/W DISCHARGE AIR & ROOM RE-SET				
					HEAT	ER SCHED	ULE						DESIGNATION	SERVICE		N SERVICE
				на	HEATING CAPACIT	Y			ELECT	RICAL						
AG	SERVICE N	MANUFACTURER	TYPE	MODEL	(KW)	RPM	HP	VOLTAGE	POWER	R (KW)		NOTES		DOMESTIC HOT WATER		FAN FLOOR DRAIIN WITH
H-1	WASHROOM	OUELLET	OFM ELECTRIC	OFM2008	2	-	_	208/1		2				RETURN		
H-2	MECHANICAL ROOM	OUELLET	OAS SUSPENDED UNIT	OASU05008	5	1550	1/30	208/1		5			SAN	SANITARY AROVE GRAF		
			HEATER		_		.,	/-					G	NATURAL GAS		CONCEALED SPRINK
					GAS UNIT	HEATER SO	CHEDUI	.E					+oco	CLEANOUT TURNED UF	₽	GAS METER
									ELEC	ELEC			lico	CLEANOUT ABOVE GRADE OR FLOOR	M	WATER METER
AG	SERVICE M	MANUFACTURER	TYPE	MODEL	(KW)	(KW)	(L/S)	VOLTAGE				NOTES		BALANCING VALVE	T	THERMOSTAT
1-3	CAR WASH	MODINE	GAS FIRED UNIT	IDS 30SS0111FBAN	7.5	6	238	115/60/1	(חר) 1 /15	1550		DIRECT VENT, SEALED COMBUSTION		PRESSURE REDUCING VALVE	FD FD	FIRE DAMPER
			HEATER		-			,, -	, . .					BALL VALVE		
				FO	RCED FLOW U	JNIT HEAT	ER SCH	EDULE						GATE VALVE	A	
					NET CAPACITY	 -						NOTEC		HOSE BIB		AIRFLOW
4G	SERVICE	MANUFACTURE	K TYPE	MODEL	(KW)	CFM		VOLTAGE				NUTES	HR	HOSE REEL		HORIZONTAL
H-1	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEATE	R OCAU05038	5	250		208/3			C/W	BUILT IN T-STAT	DH	DUCT HEATER	PW-1	PRESSURE WASHER
H-2	COORIDOR & SCENT TRAINING AREA	OUELLET	OCA FORCED-AIR CABINET UNIT HEATE	R OCAU05038	5	250		208/3			C/W	BUILT IN T-STAT				
			EL OM													
TAG	MANUF. AND	D MODEL SC	OURCE (L	_/S)	(KW)	V/HZ/P				NO	ΓES					
DHW-1	RINNAI RL94i(VC2	2837FFUD-US)	GAS 0.	.606	58	120 / 60			INSTA	ANTANEOUS W/	ATER HEATER					
				ŀ	HIGH PRESSUF	RE WASHEI	r schei	DULE								
.G LC	CATION SERV	VICE MANUFA	CTURER MODEL	MODEL	FLOW	HEATING PACITY (KW)	PRESSURI (KPA)	E ELECTRICA	AL P) AMP	MOTOR (RPM)	V/HZ/P	NOTES				
1 MECH	ANICAL ROOM	H & SCENT NG AREA HOT	SY 942N	HH406R.1	0.303	107	13789.5	5	18	1725	208/60/3	C/W HYDROMETER, DETERGENT DRUM, MACHINE STAN DRAFT DIVERTER, MOTORIZED DAMPER, GUN WAND, HO	D, SE &			
					IRINIC FIVTUP		ז וטטוב.									
	COLD WATER	HOT WATER														
	(mm)	(mm)	(mm)			OOR MOUNTED FLO	OR OUTI FT - 4					IG SYSTEM - TWO PIFCES SPEED CONNECT TANK ASSEMBLY	(-			
WC-1	10	-	80 AMER	ICAN STANDARD			EL # 215CA.05	4, HEAVY DUTY FO		D BOWL OPEN F	RONT WHITE SOLID	PLASTIC LESS COVER AS CENTOCO MODEL # 500STSCC.	01			
LAV-1	10	10	32 AMER	ICAN STANDARD	LE HONG DAJIN - VITKE			LEVER - C	HROME PLATI	ED AS 420-E28)5-ABCP.					
	10	10	40 AMER	ICAN STANDARD	FLOOR MOUN	TED, 2'x2' SERVICE	MOP SINK TER	RAZZO AS SP-900 C		CETS WALL MO	UNTED TWO HAND	EL UTILITY MOP MANUAL FAUCET AS 897-RCF.				
JAN-1	15	15	40 AMER	ICAN STANDARD	PRECAST TERRAZZO, TRA	NSFER TYPE SHOWE	R FLOOR - 25m R - SHOWER DR	IM GALVANIZED-BC AIN GASEKET CON	NDERIZED ST	EEL TILING FLA PARIAN WDA-36	NGE ON THREE SID 660, CHICAGO FAUC	ES - INTEGRAL CAST BRASS FLOOR DRAIN 50mm WITH S.S CET AS SH-PB1-00-000.	.			
JAN-1 SH-1					DRAI	NS SCHED	ULE									
JAN-1 SH-1					SIZF											
JAN-1 SH-1											Ν					
JAN-1 SH-1	MANUFACTU	JRER MODE	_ COAT		EA (MM) PIPE DIAMFT	ER (MM)	SERVICE					IUTES				
JAN-1 SH-1 TAG	MANUFACTU WATTS DRAINA	JRER MODE	- COAT	TING ARE	EA (MM) PIPE DIAMET	ER (MM)					MFC	HANICAL ROOM				

	MANUFACTURER	SANITARY (mm)	HOT WATER (mm)	COLD WATER (mm)	FIXTURE
WHITE VITREOU LINED TANK AS	AMERICAN STANDARD	80	-	10	WC-1
WALL HUNG BAS	AMERICAN STANDARD	32	10	10	LAV-1
FLO	AMERICAN STANDARD	40	10	10	JAN-1
PRECAST TERR	AMERICAN STANDARD	40	15	15	SH-1

ТАС			COATING		SIZ
IAG	MANUFACTURER	MODEL	COATING	AREA (MM)	PI
FD-1	WATTS DRAINAGE	FD-200-C-A5-1	EPOXY COATED CAST IRON	127Ø	
FD-2	WATTS DRAINAGE	FD-200-FC	EPOXY COATED CAST IRON	150Ø	

ZE		ΝΟΤΓΟ						
IPE DIAMETER (MM)	SERVICE	NOTES						
100Ø	FLOOR DRAIN	MECHANICAL ROOM						
100Ø	FLOOR DRAIN	FINISHED AREA						



						PUMP	SCHEDU	JLE		
TAG	SERVICE	MANUFACTURER	MODEL	L/S	HP	VOLTAGE	PHASE	RPM	CONTROL	NOTES
P-1	EFFLUENT	MYERS	WHR5H-11	1.57	1/2	115	1	3450	MANUAL	C/W OUTDOOR PANEL AND FOUR FLOATS
					CPII			SCHED		
					UNIL		IIIOSLI	JCHLD	ULL	
TAG	MANUFACTURE	ER MODEL	-	TYPE						NOTES
А	PRICE	LOUVERED FACE SUPPLY	Y (500 SERIES)	300X125/ 520/F,	/L/A/B12					
В	PRICE	LOUVERED FACE SUPPLY	Y (500 SERIES)	400X150 /520/F,	/L/A/B12					
С	PRICE	ROUND DIFFU	SERS	250/RCDE/	B12					
D	PRICE	LOUVERED FACE RETUR	N (500 SERIES)	450X400/ 530/F,	/L/A/B12					
E	PRICE	LOUVERED FACE RETUR	N (500 SERIES)	1000X600/ 530Z/	F/L/A/B12					
F	PRICE	LOUVERED FACE RETUR	N (500 SERIES)	600X400/ 530Z/F	F/L/A/B12					
G	PRICE	SQUARE CONE DI	FFUSER	250/ 600X600/ SC	CD/3C/B12					
н	PRICE	SQUARE CONE DI	FFUSER	150/ 600X600/ SC	CD/3C/B12					
I	PRICE	EGGCRATE (80 S	SERIES)	200X150/80/F	/A/B12					
J	PRICE	EGGCRATE (80 S	SERIES)	150X150/80/F	/A/12B					
К	PRICE	EGGCRATE (80 S	SERIES)	600X500/ 80/F	/A/12B					
L	VENTEX	2210 LOUV	ER	500X500)					
 						SEPTIC TA		IEDULE		
TAG	SERVICE	MANUFACTURER	MODEL	CAPACITY (L)	EFFLUE	ENT CHAMBEI (L)	R			NOTES

						PUMP	SCHEDU	JLE				
TAG	SERVICE	MANUFACTURER	MODEL	L/S	HP	VOLTAGE	PHASE	RPM	CONTROL	NOTES		
P-1	EFFLUENT	MYERS	WHR5H-11	1.57	1/2	115	1	3450	MANUAL	C/W OUTDOOR PANEL AND FOUR FLOATS		
	GRILLE AND DIFFUSER SCHEDULE											
TAG	MANUFACTURE	R MODEL	-	TYPE						NOTES		
А	PRICE	LOUVERED FACE SUPPLY	Y (500 SERIES)	300X125/ 520/F/I	_/A/B12							
В	PRICE	PRICE LOUVERED FACE SUPPLY (500 SERIES)		400X150 /520/F/I	_/A/B12							
С	PRICE	PRICE ROUND DIFFUSERS		250/RCDE/B	250/RCDE/B12							
D	PRICE	PRICE LOUVERED FACE RETURN (500 SERIES)		450X400/ 530/F/I	_/A/B12							
E	PRICE	CE LOUVERED FACE RETURN (500 SERIES)		1000X600/ 530Z/F,	/L/A/B12							
F	PRICE	LOUVERED FACE RETUR	N (500 SERIES)	600X400/ 530Z/F/	L/A/B12							
G	PRICE	SQUARE CONE DI	IFFUSER	250/ 600X600/ SCI	D/3C/B12							
н	PRICE	SQUARE CONE DI	IFFUSER	150/ 600X600/ SCE	D/3C/B12							
I	PRICE	EGGCRATE (80 S	SERIES)	200X150/ 80/F/	A/B12							
J	PRICE	EGGCRATE (80 S	SERIES)	150X150/ 80/F/A/12B		150X150/ 80/F/A/12B						
К	PRICE	EGGCRATE (80 S	SERIES)	600X500/ 80/F/A/12B		600X500/ 80/F/A/12B						
L	VENTEX	2210 LOUV	210 LOUVER 500X500									
									,			
 						SEPTIC 17						
TAG	SERVICE	MANUFACTURER	MODEL	CAPACITY (L)	EFFLUE	ENT CHAMBE (L)	R			NOTES		

						PUMP	SCHEDU	LE		
TAG	SERVICE	MANUFACTURER	MODEL	L/S	HP	VOLTAGE	PHASE	RPM	CONTROL	NOTES
P-1	EFFLUENT	MYERS	WHR5H-11	1.57	1/2	115	1	3450	MANUAL	C/W OUTDOOR PANEL AND FOUR FLOATS
					GRIL	le and d	IFFUSER	SCHED	ULE	
TAG	MANUFACTURER	MODEL	-	TYPE						NOTES
А	PRICE	LOUVERED FACE SUPPL	Y (500 SERIES)	300X125/ 520/F/	L/A/B12					
В	PRICE	LOUVERED FACE SUPPLY	Y (500 SERIES)	400X150 /520/F/	L/A/B12					
С	PRICE	ROUND DIFFU	SERS	250/RCDE/B12						
D	PRICE	LOUVERED FACE RETUR	N (500 SERIES)	450X400/ 530/F/L/A/B12						
E	PRICE	LOUVERED FACE RETUR	N (500 SERIES)	1000X600/ 530Z/F/L/A/B12						
F	PRICE	LOUVERED FACE RETUR	LOUVERED FACE RETURN (500 SERIES) 600		/L/A/B12					
G	PRICE	SQUARE CONE D	FFUSER	250/ 600X600/ SCD/3C/B12						
Н	PRICE	SQUARE CONE D	FFUSER	150/ 600X600/ SCD/3C/B12						
1	PRICE	EGGCRATE (80 S	SERIES)	200X150/80/F/	′A/B12					
J	PRICE	EGGCRATE (80 S	SERIES)	150X150/ 80/F/	A/12B					
К	PRICE	EGGCRATE (80 S	SERIES)	600X500/ 80/F/	′A/12B					
L	VENTEX	2210 LOUV	ER	500X500						
					(SEPTIC ΤΑ	NK SCH	FDULF		
TAG	SERVICE	MANUFACTURER	MODEL	CAPACITY (L)	EFFLUE	ENT CHAMBE (L)	R			NOTES
ТК-1	WASTE WATER	ALBERTA WILBERT SALES	2000 GALLON	5413		1798				OR EQUAL (WESTCAN, TANKS-A-LOT)
	I		•	•	•					

	DATE	ISSUED FOR
	2015-01-21	DESIGN PRO
	2015-03-31	FINAL REV
	2015-05-08	TENDER
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	Consultants Civil:	
	Landscape: Architectural: Structural:	
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	An Ingenium Group 221-10 Ave SE, Suite 100	Company
	Calgary, Alberta www.norr.com	ι, Canada T2G 0V9
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	Project Manager	Drawn
	A. TODELIA Project Leader	N. ALY Checked
	Client	
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		ΓΙΙΟΥ
	Drawing Title	
	MECHAN	ICAL SCHI
	Check Scale (may Q	be photo reduced) 1inch
	Project No.	<u></u>
	Drawing No.	M00-03











GENERAL CONTRACTOR. E. TREATED WATER WITH ACCEPTABLE HARDNESS AT PRESSURE OF 50PSI WILL BE PROVIDED BY THE CLIENT.

- 9. 19mmØ DCW DOWN TO HOTSY.
- 10. 15mmØ @3.4KPa GAS LINE TO HOTSY
- 11. HOTSY REMOTE START/SHUTDOWN TIMER CONTROL BOX.
- 12. WALL MOUNT COX 30480 mm HOSE REEL. GUN, WAND AND NOZZLES. 13. INSTALL NEW FLOOR DRAIN. CONCRETE FLOOR IS TO BE CUT AS REQUIRED.
- 14. 50mm INCOMING WATER LINE.
- 15. TIE IN 150mm SANITARY PIPE TO EXISTING UNDERGROUND SANITARY LINE.

- HAVING JURISDICTION IS BY THE CLIENT.

19. 150mm CONCRETE WALL REINF. W/15@300 M.L. EW. DRILL & EPOXY HORIZONTAL REINF. INTO EXISTING WALLS USING HILTI RE 500 ADHESIVE SYSTEM.

20. PROVIDE TWO 150mm OPENINGS IN THE PARTITION CONCRETE WALL. ONE AT 450mm ABOVE BOTTOM OF THE SUMP & ONE AT 200mm BELOW TOP OF THE PARTITION WALL. 21. PROVIDE A SOLID PLATE COVER OVER THE 2ND COMPARTMENT AS CROSS HATCHED.



Project No.

Drawing No.



			I FGFND (S		OCT 2014
	LIGHTING		MECHANICAL		COMMUNICATION SYSTEMS		FIRE ALARM
X	RECESSED LED / INCANDESCENT / COMPACT FLUORESCENT		MOTOR		VOICE OUTLET	A	SMOKE ALARM
 	LUMINAIRE SURFACE LED / INCANDESCENT / COMPACT FLUORESCENT		MOTOR C/W DISCONNECT SWITCH		DATA ΟΙΙΤΙ ΕΤ	AC AC	SMOKE ALARM/CARBON MONOXIDE ALARM
	LUMINAIRE WALL LED / INCANDESCENT / COMPACT FLUORESCENT		MOTOR C/W MANUAL STARTER			AC	SMOKE ALARM/CARBON MONOXIDE ALARM C/W STROBE
	LUMINAIRE LED / INCANDESCENT / COMPACT FLUORESCENT WALL		UNFUSED DISCONNECT SWITCH		TELEVISION OUTLET		SMOKE DETECTOR
~	WASHER RECESSED LED / INCANDESCENT / COMPACT FLUORESCENT						
×	LUMINAIRE ON EMERGENCY POWER SURFACE LED / INCANDESCENT / COMPACT FLUORESCENT						
× ×	LUMINAIRE ON EMERGENCY POWER WALL LED / INCANDESCENT / COMPACT FLUORESCENT					RR	
						200	
						135	
							DUCT SMOKE DETECTOR - 'SA' DENOTES SUPPLY AIR,
							'RA' DENOTES RETURN AIR
	FLUORESCENT STRIP LUMINAIRE		BASEBOARD HEATER	M	MICROPHONE OUTLET		FIRE ALARM PULL STATION
	FLUORESCENT STRIP LUMINAIRE			(P)	PA SPEAKER - CEILING MOUNTED	FS A	SPRINKLER FLOW SWITCH
	RECESSED FLUORESCENT LUMINAIRE ON EMERGENCY POWER		POWER		PA SPEAKER - WALL MOUNTED	(TS)	SPRINKLER TAMPER SWITCH
	SURFACE FLUORESCENT LUMINAIRE ON EMERGENCY POWER	\bigcirc	SINGLE/SPECIAL PURPOSE RECEPTACLE	V	VOLUME CONTROLLER	(PS)	SPRINKLER PRESSURE SWITCH
	TRACK LIGHTING C/W LIGHTING HEADS AS SHOWN	\bigcirc	DUPLEX RECEPTACLE		CHIME		END OF LINE RESISTOR
ו	POLE MOUNTED LUMINAIRE	0	ISOLATED GROUND RECEPTACLE		CLOCK - CEILING MOUNTED	F	FIRE ALARM BELL
	LIGHTING BOLLARD		GROUND FAULT RECEPTACLE	<u>_</u>	CLOCK - WALL MOUNTED	F	FIRE ALARM COMBINATION BELL AND STROBE
XX	LIGHTING LUMINAIRE TYPE TAG	\oplus	SPLIT/SWITCHED CIRCUIT RECEPTACLE	X	PAC-POLE	F	FIRE ALARM HORN
\bigotimes	EXIT LIGHT - CEILING (C/W ARROWS AS INDICATED)	đ	20A T-SLOT RECEPTACLE	WD	WATER DETECTOR	F	FIRE ALARM COMBINATION HORN AND STROBE
\square	EXIT LIGHT - WALL (C/W ARROWS AS INDICATED)	\oplus	FOURPLEX RECEPTACLE		GROUND BAR	•	FIRE ALARM MINI HORN/STROBE WITH SILENCE BUTTON
X	EMERGENCY POWER BATTERY PACK		ISOLATED GROUND FOURPLEX RECEPTACLE	<u> </u>	BACKBOARD		FIRE ALARM MINI HORN WITH SILENCE BUTTON
	EMERGENCY POWER BATTERY PACK C/W LIGHTING HEADS	\Diamond	COMPUTER DUPLEX RECEPTACLE (FED W/ DEDICATED NEUTRAL)			F	FIRE ALARM STROBE
	EMERGENCY POWER BATTERY PACK C/W R. HEADS & EXIT LIGHT	\Leftrightarrow	COMPUTER FOURPLEX RECEPTACLE (FED W/ DEDICATED NEUTRAL)		SECURITY SYSTEMS	• F	FIRE ALARM MINI SPEAKER WITH SILENCE BUTTON
Ą	SINGLE REMOTE EMERGENCY LIGHTING HEAD - CEILING MOUNT		FLOOR MOUNTED RECEPTACLE	S	SECURITY HORN	F	FIRE ALARM SPEAKER - CEILING MOUNTED
$\langle \rangle$	DOUBLE REMOTE EMERGENCY LIGHTING HEAD - CEILING MOUNT	L L	FLOOR MOUNTED ISOLATED GROUND RECEPTACLE	۲	PUSH BUTTON	F	FIRE ALARM COMBINATION SPEAKER/STROBE - CEILING MOUNTED
4	SINGLE REMOTE EMERGENCY LIGHTING HEAD - WALL MOUNT	#	FLOOR MOUNTED FOURPLEX ISOLATED GROUND RECEPTACLE	DH	MAGNETIC DOOR HOLD OPEN	μĘ	FIRE ALARM SPEAKER - WALL MOUNTED
$\langle \rangle$	DOUBLE REMOTE EMERGENCY LIGHTING HEAD - WALL MOUNT		FLOOR MOUNTED COMPUTER DUPLEX RECEPTACLE W/DEDICATED NEUTRAL	ML	MAGNETIC LOCK	H(F)	FIRE ALARM COMBINATION SPEAKER/STROBE - WALL MOUNTED
555	SWITCH - SINGLE, TWO, AND THREE GANG	\bigcirc	CEILING MOUNTED SINGLE/SPECIAL PURPOSE RECEPTACLE	ES	ELECTRIC STRIKE	F	FIRE PHONE
⊑²	2 POLE SWITCH		CEILING MOUNTED DUPLEX RECEPTACLE	DP	DOOR POSITION SWITCH	IM	ISOLATION MODULE
 ³	SWITCH - 3 WAY	()	CEILING MOUNTED JUNCTION/SLAB BOX	REX	REQUEST TO EXIT SENSOR	IM	SUITE AUDIBLE ISOLATOR
\$	SWITCH - LOW VOLTAGE	J	FLOOR MOUNTED JUNCTION/SLAB BOX	MS	SECURITY MOTION SENSOR	СМ	CONTROL MODULE
₽ĸ	SWITCH - KEY SWITCH		WALL MOUNTED JUNCTION BOX	CR	CARD READER	ММ	MONITORING MODULE
БW	SWITCH - MANUAL STARTER		ELECTRICAL PANELBOARD - SURFACE MOUNTED	V	2-WAY VOICE/PANIC		GENERAL
	SWITCH - DIMMER SWITCH		ELECTRICAL PANELBOARD - RECESSED	• \$	INTERCOM		CONDUIT CONCEALED IN WALL OR CEILING
	SWITCH - OCCUPANCY SENSOR SWITCH	С	CONTACTOR	S	SECURITY STROBE		CONDUIT CONCEALED IN SLAB OR RUN UNDERGROUND
	SWITCH C/W PILOT LIGHT - SINGLE GANG	\oplus	CAR PLUG POST		CCTV CAMERA		CONDUIT UP
	SWITCH - TIMER SWITCH	TC	TIME CLOCK	(G)	GLASS BREAKAGE SENSOR	• •	CONDUIT DOWN
P	PHOTO ELECTRIC CELL		SINGLE PHASE DIRECT CONNECTION	K	KEYPAD		CONDUIT STUB
l l l l l l l l l l l l l l l l l l l	OCCUPANCY SENSOR - CEILING MOUNTED		THREE PHASE DIRECT CONNECTION		INTERCOM		CONDUIT CONTINUATION
	DAYLIGHT HARVESTING LIGHT SENSOR		DROP CORD	RM	RELAY MODULE	WP	DENOTES WEATHERPROOF DEVICE
			VFD CONTROL			NL	DENOTES UNSWITCHED LUMINAIRE (NIGHT LIGHT)
						R	DENOTES DEVICE TO REMOVE OR RELOCATE
						RL	DENOTES RELOCATED DEVICE
<u> </u>							
						E	

DATE **ISSUED FOR** RE\ 02-26-15 ISSUED FOR 30% PROGRESS 03-31-15 ISSUED FOR FINAL REVIEW 04-22-15 ISSUED FOR TENDER This drawing has been prepared solely for the use of the CLIENT and there are no representations of any kind made by NORR Architects Engineers Planners to any party with whom NORR Architects Engineers Planners has not entered into a contract. This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer. Keyplan North Arrow Detail Symbol /DETAIL# ˈSHEET #ˈ Symbol not to scale Consultants Civil: Landscape: Architectural: Structural: Mechanical: NORR Electrical: NORR Seal(s) ENGIA April 24 2015 NORR ARCHITECTS ENGINEERS PLANNERS An Ingenium Group Company 221-10 Ave SE, Suite 100, Calgary, Alberta, Canada T2G 0V9 www.norr.com A Partnership of Limited Companies Poon McKenzie Architects (Alberta) Inc. Poon McKenzie Holdings Inc. NORR is a trademark owned by Ingenium Group Inc. and is used under license. NOKK IS a trademark owned by ingenium croup inc. and is used un Victor Smith, Architect, AAA, B.Arch, MAIBC Ronald M. Poon, Architect, AAA, M.Arch, MAIBC Bruce G. McKenzie, Architect, AAA, M.Arch, MAIBC A. Silvio Baldassarra, Architect, AAA, B.Arch, MAIBC Adrian Todeila, P.Eng., APEGA Chris Pal, P.Eng., APEGA Project Manager A.TODELIA Drawn R.ALLEN Project Leader Checked D.HIDER D.HIDER Client GOVERNMENT OF CANADA Project QUONSET FITUP Innisfail, AB Drawing Title ELECTRICAL COVER SHEET Check Scale (may be photo reduced) 0 1 inch 0 10mm

Project No.

Drawing No.

NCCA-14-0204

E00-00

LIST OF DRAWINGS

E00-00	ELECTRICAL COVER SHEET
E00-01	ELECTRICAL SITE PLAN
E01-00	LIGHTING LAYOUT
E02-00	POWER & SYSTEMS LAYOUT
E03-00	ELECTRICAL DETAILS
E04-00	PANEL SCHEDULES & SINGLE LINE
•	

T DATE: April 23, 2015 TIME: 3:21 PM FULL PATH AND FILENAME: C:\D\TIMSDATA\NCCA140204\500-DELIV\E00-01.DWG PLOTSYLE TABLE: ---



GENERAL NOTES:

A. LOCATIONS FOR EXISTING QUONSET BUILDING AND UTILITY TRANSFORMER ARE APPROXIMATE. ELECTRICAL CONTRACTOR TO VERIFY LENGTH OF CONDUIT AND CABLING PRIOR TO BID.

REFFERAL NOTES:

1 CONDUIT AND CABLING FROM EXISTING TRANSFORMER TO EXISTING QUONSET BUILDING. REFER TO SINGLE LINE FOR DETAILS.

DATE	ISSUED FOR	REV
02-26-15	ISSUED FOR 30% PROGRESS	0
03-31-15	ISSUED FOR FINAL REVIEW	1
04-22-15	ISSUED FOR TENDER	2
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Planners to Engineers Pl	any party with whom NORR Archit anners has not entered into a contr	ects act.
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and dated b	y the Architect or Engineer.	
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	LIGHTING PLAN	
E01-00	1:75	

GENERAL NOTES:

- A. REFER TO LUMINAIRE SCHEDULE ON DRAWING E04-00.
- B. REFER TO PANEL SCHEDULE ON DRAWING E04-00.

REFFERAL NOTES:

1 LUMINAIRES LOCATED IN THE SCENT TRAINING AREA, CAR WASH AND MECHANICAL ROOM TO BE SUSPENDED FROM STRUCTURAL BEAMS AT 3350mm A.F.F.

DATE ISSUED FOR REV
02-26-15 ISSUED FOR 30% PROGRESS 0
03-31-15 ISSUED FOR FINAL REVIEW 1
04-22-15 ISSUED FOR TENDER 2
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North Arrow Detail Symbol DETAIL# SHEET # Symbol not to scale
Landscape: Architectural: Structural: Mechanical: NORR Electrical: NORR
PP-11944 April 24 2015
ARCHITECTS ENGINEERS PLANNERS An Ingenium Group Company 221-10 Ave SE, Suite 100,
Caigary, Alberta, Canada T2G 0V9 WWW.norr.com A Partnership of Limited Companies Poon McKenzie Architects (Alberta) Inc. Poon McKenzie Holdings Inc. NORR is a trademark owned by Ingenium Group Inc. and is used under license. Victor Smith, Architect, AAA, B.Arch, MAIBC Ronald M. Poon, Architect, AAA, B.Arch, MAIBC Bruce G. McKenzie, Architect, AAA, M.Arch, MAIBC A. Silvio Baldassarra, Architect, AAA, B.Arch, MAIBC A. Silvio Baldassarra, Architect, AAA, B.Arch, MAIBC
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Calgary, Alberta, Canada T2G 0V9 www.norr.com A Partnership of Limited Companies Poon McKenzie Architects (Alberta) Inc. Poon McKenzie Holdings Inc. NORR is a trademark womed by Ingentium Group Inc. NORR is a trademark womed by Ingentium Group Inc. Wictor Smith, Architect, AAA, B.Arch, MAIBC Bruce G. McKenzie, Architect, AAA, B.Arch, MAIBC A. Silvio Baldassara, Architect, AAA, B.Arch, MAIBC A. TODELIA Project Leader D.HIDER Client GOVERNMENT OF Client GUONSET FITUP Innisfail, AB Drawing Title
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GENERAL NOTES:

A. REFER TO PANEL SCHEDULE ON DRAWING E04-00.

REFFERAL NOTES: 1 VFD CONTROL FOR EXHAUST FAN EF-2.

DATE	ISSU	ED FOR	REV
02-26-15	ISSUED FOR	30% PROGRESS	0
03-31-15	ISSUED FOR	FINAL REVIEW	1
04-22-15	ISSUED F	OR TENDER	2
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and dated by	/ the Architect o	r Engineer.	
Keyplan			
North Arrow	NOR JH	DETAIL# SHEET # Symbol not to scale	
Consultants Civil: Landscape: Architectura Structural: Mechanical: Electrical:	al: NORR NORR		
Seal(s)			
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ARCHITECTS An Ingenium 221-10 Av Suite 100, Calgary, A www.norr. A Partnersh	ENGINEERS PLAN Group Company re SE, Iberta, Canada com	R INERS T2G 0V9 npanies	
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M1A-22,24 -UH-2

			amps				
ТҮРЕ	DESCRIPTION	ТҮРЕ	WATTS	NO.	VOLTS	MANUFACTURER	MOUNTING
100	4' LOW BAY LIGHTING	Т8	32	2	120	LITHONIA CAT# Z-2-32-SBL-MVOLT-GEB10IS	SUSPENDED
101	4' STRIP LIGHTING	Т8	32	2	120	COOPER - METALUX CAT# SSF-232-120V-EB81-U	SUSPENDED
102	VANITY LIGHTING	Т8	32	2	120	COOPER - METALUX CAT# CR-232A-120V-EB81-U	WALL / SURFACE
103	4' VAPOR TIGHT INDUSTRIAL STRIP LIGHTING	Т8	32	2	120	COOPER - METALUX CAT# VT3-232DR-120V-EB81-WI-U	SUSPENDED
104	2 X 4 TROFFER	T8	32	3	120	COOPER - METALUX CAT# 2GC8-332A-120V-EB81-U	RECESSED
300	EXTERIOR WALL PACK	LED		-	120V	COOPER - METALUX CAT# VT3-232DR-120V-EB81-WL-U	WALL / SURFACE
BP1	EMERGENCY LIGHTING BATTERY PACK	LED	14	-	120	BEGHELLI MODEL# INV-12-180-BTMR2- 12V/7W-AT OR EQUVILANT	WALL SURFACE
RM1	EMERGENCY LIGHTIGN REMOTE MOUNTED HEAD	LED	14	-	120	BEGHELLI MODEL# BTMR2-LED-MR16- 12V/7W-WH OR EQUIVALENT	AS NOTED ON PLANS
EX1	UTILITY/BACK OF HOUSE AREA EXIT LIGHTING	LED	5	-	120	BEGHELLI MODEL# EC-E-L-R-U-M-120/347V- UDC OR EQUIVALENT	AS NOTED ON PLANS





REMARKS

M1A-45 o



REFERRAL NOTES: 1 PHOTOCELL MOUNTED TO OUTSIDE OF BUILDING.

A) BUILDING LIGHTING TO BE CONTROLLED FROM LIGHTING CONTROL PANEL LOCATED MECHANICAL ROOM.

GENERAL NOTES:



120V CONTROL CIRCUIT M1A-47	NEU 	TRAL
	R R RED PILOT LIGHT MOUNTED TO ENCLOSURE	120V, 15A RATED CONTACTS AS REQUIRED. PHOTOCELL
GHTING CONTROL PANEL RM 110		

1	NORR
	Mounting:
	Number of Poles:
	Line to Neutral Voltag
	Line to Line Voltage (

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UTILITY METER (A)-PP-M1A 208/120V 3Ø 4W 400A TAG CAB A 4#500kcmil RW90XLPE CU + 1#3AWG F SINGAL LINE DIAGRAM





Feeder Schedule		
3LE DESIGNATION	CONDUIT	AMAPCITY
RW90XLPE CU GND	103MM	395

DATE ISSUED FOR REV							
02-26-15 ISSUED FOR 30% PROGRESS 0							
03-31-15	03-31-15 ISSUED FOR FINAL REVIEW 1						
04-22-15	ISSUED FC	OR TENDER	2				
This drawing has been prepared solely for the use of the CLIENT and there are no representations of any kind made by NORR Architects Engineers Planners to any party with whom NORR Architects Engineers Planners has not entered into a contract. This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.							
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- 1. GENERAL
- 1.1. THE GENERAL REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATION AND ANY ADDENDA HERETO FORM PART OF THE CONTRACT DOCUMENTS AND SHALL BE READ IN CONJUNCTION WITH THEM. WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR AND MATERIALS UNLESS SPECIFICALLY NOTED OTHERWISE TO COMPLETE AND PUT INTO OPERATING CONDITION ALL ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- 1.2. THE SCOPE OF WORK IS AS DESCRIBED HEREIN AND SHOWN ON THE DRAWINGS.
- 2. STANDARD OF MATERIAL AND WORKMANSHIP
- 2.1. ALL MATERIALS SHALL BE NEW UNLESS SPECIFICALLY NOTED ON DRAWINGS AND BE OF THE QUALITY SPECIFIED AND SHALL CONFORM TO THE STANDARDS OF THE CANADIAN STANDARDS ASSOCIATION. WHERE EQUIPMENT OR MATERIALS ARE SPECIFIED BY TECHNICAL DESCRIPTION ONLY, THEY SHALL BE OF THE BEST COMMERCIAL QUALITY OBTAINABLE FOR THE PURPOSE.
- 2.2. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED TRADESMEN. ELECTRICAL CONTRACTOR SHALL KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS, ALL SATISFACTORY TO THE ENGINEER, ON THE JOB DURING THE PROGRESS OF THE WORK.
- 2.3. WORKMANSHIP SHALL BE OF THE HIGHEST STANDARDS THROUGHOUT AND SHALL BE MINIMUM OF THE CURRENT TRADE PRACTICES FOR ELECTRICAL INSTALLATIONS IN THIS BUILDING.
- 3. UNIFORMITY OF EQUIPMENT
- 3.1. UNLESS OTHERWISE SPECIFICALLY CALLED FOR IN THE SPECIFICATIONS. UNIFORMITY OF MANUFACTURE SHALL BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT THE BUILDING.
- 3.2. SPECIFICATIONS, UNIFORMITY OF MANUFACTURE SHALL BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT THE BUILDING.
- 3.2.1. SPECIFICATIONS, UNIFORMITY OF MANUFACTURE SHALL BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT THE BUILDING.

4. DRAWINGS AND SPECIFICATIONS

- 4.1. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, EACH TO THE OTHER, AND WHAT IS CALLED FOR BY ONE, SHALL BE BINDING AS IF CALLED FOR BY BOTH.
- 4.2. SHOULD ANY DISCREPANCY APPEAR BETWEEN THE DRAWINGS AND SPECIFICATIONS WHICH LEAVES THE ELECTRICAL CONTRACTOR IN DOUBT AS TO THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS, A RULING SHALL BE OBTAINED FROM THE ENGINEER. IF THIS IS NOT DONE, IT WILL BE ASSUMED THAT THE MOST EXPENSIVE ALTERNATE HAS BEEN ALLOWED FOR.
- 5. CODES, PERMITS AND INSPECTION
- 5.1. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE AND THE REGULATIONS OF THE CITY OF CALGARY ELECTRICAL INSPECTION DEPARTMENT.
- 5.2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED AT THEIR EXPENSE AND DISPLAY THEM IN THE ELECTRICAL ROOM, AND COORDINATE INSPECTIONS AS REQUIRED AND OBTAIN A FINAL INSPECTION CERTIFICATE.
- 6. EXAMINATION OF THE SITE
- 6.1. PRIOR TO SUBMITTING THEIR TENDER, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND ASCERTAIN ALL CONDITIONS, WHICH SHALL AFFECT HIS TRADE. NO EXTRAS WILL BE ALLOWED FOR WORK RESULTING FROM CONDITIONS THAT WOULD HAVE BEEN EVIDENT UPON A THOROUGH EXAMINATION OF THE SITE.
- 7. CLEAN UP
- 7.1. THE ELECTRICAL CONTRACTOR AND THEIR SUB-TRADES SHALL AT ALL TIMES DURING CONSTRUCTION, KEEP THE SITE FREE OF ALL DEBRIS, BOXES, PACKING, ETC., RESULTING FROM WORK OF THIS TRADE.
- 7.2. AT THE COMPLETION OF THE WORK, THE ELECTRICAL INSTALLATION SHALL BE LEFT IN A CLEAN FINISHED CONDITION TO THE SATISFACTION OF THE ENGINEER.
- 7.3. ALL LUMINAIRES AND ELECTRICAL DEVICES SHALL BE WASHED, CLEANED OF GREASE, DIRT AND LINT AS REQUIRED.
- 7.4. ALL HANDLING OF LUMINAIRES AND LAMPS SHALL BE DONE WITH CLEAN GLOVES. TO ENSURE CLEANLINESS AND LAMP LIFE.
- 7.5. RECYCLE PACKING MATERIAL AND OTHER SUCH ITEMS THAT CAN BE DIVERTED FROM LANDFILL.
- 8. SETTING OUT OF THE WORK
- 8.1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS AND SHALL BEAR ALL COSTS FOR SAME. WHERE THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, HE SHALL OBTAIN THE CLARIFICATION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 8.2. THE ELECTRICAL CONTRACTOR SHALL GIVE THE WORK THEIR PERSONAL SUPERVISION, LAY OUT HIS OWN WORK, DO ALL NECESSARY LEVELLING AND MEASURING OR EMPLOY A COMPETENT ENGINEER TO DO SO. FIGURES, FULL SIZE AND DETAIL DRAWINGS SHALL TAKE PRECEDENCE OVER SCALE MEASUREMENTS.
- 8.3. WHERE ANY EQUIPMENT SUPPLIED BY THE ELECTRICAL CONTRACTOR MUST BE BUILT IN WITH THE WORK OF OTHER CONTRACTORS, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLYING OF THE EQUIPMENT TO BE BUILT IN OR MEASUREMENTS TO ALLOW NECESSARY OPENINGS TO BE LEFT SO AS NOT TO HOLD UP THE WORK.
- 8.4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE OWNER OR ANY OF THE OTHER TRADES BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK.
- 9. LOCATION OF OUTLETS
- 9.1. ENGINEER RESERVES THE RIGHT TO CHANGE LOCATION OF OUTLETS TO WITHIN 3.0 METRES OF POINTS INDICATED ON PLANS WITHOUT EXTRA CHARGE PROVIDING ELECTRICAL CONTRACTOR IS ADVISED PRIOR TO INSTALLATION.
- 10. CORING, CUTTING AND PATCHING
- 10.1. THE GENERAL TRADE WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THE ELECTRICAL INSTALLATION. STRUCTURAL MEMBERS SHALL NOT BE CUT WITHOUT THE CONSENT OF THE STRUCTURAL ENGINEER
- 10.2. WHERE WORK BY THE ELECTRICAL CONTRACTOR DAMAGES WORK OF OTHER TRADES, THE ELECTRICAL CONTRACTOR SHALL REPAIR AND MAKE GOOD SUCH DAMAGE TO THE SATISFACTION OF THE TRADE CONCERNED AND THE ENGINEER.
- 10.3. WHERE THE FLOOR SLAB IS DRILLED FOR CONDUIT INSTALLATION TO WALL JUNCTION BOXES OR TO FLOOR FITTINGS THE FLOOR SHALL BE DRY CORE DRILLED. AFTER CONDUIT INSTALLATION, THE OPENING SHALL BE FIRE STOPPED. (SEE SECTION "FIRE STOPPING") ELECTRICAL CONTRACTOR TO PAY FOR ALL ASSOCIATED X-RAY COSTS, STRUCTURAL ENGINEER REVIEW, ETC.
- 11. ACCESS DOORS
- 11.1. NUMBER OF ACCESS DOORS TO BE KEPT TO AN ABSOLUTE MINIMUM DOOR LOCATIONS WILL BE COORDINATED WITH THE ENGINEER PRIOR TO INSTALLATION.
- 11.2. WHERE ACCESS IS REQUIRED TO PULLBOXES AND JUNCTION BOXES, THESE BOXES ARE TO BE LOCATED IN REMOVABLE TYPE CEILING AREAS WHERE POSSIBLE OR ADJACENT TO RECESSED LUMINAIRES.

- 11.3. WHERE IT IS ABSOLUTELY IMPOSSIBLE TO SERVICE CERTAIN EQUIPMENT THROUGH REMOVABLE TYPE CEILINGS OR RECESSED LUMINAIRES AND WHERE SPECIAL PERMISSION HAS BEEN OBTAINED FROM THE ENGINEER, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ACCESS DOORS REQUIRED FOR SERVICING OF SUCH WORK.
- 11.4. ACCESS DOORS TO BE HELD CLOSED WITH CAPTIVE TYPE STUDS. ACCESS PANELS TO BE OF NOT LESS THAN 14 GAUGE STEEL, PRIME COATED AND PAINTED ON THE JOB TO MATCH THE WALL OR CEILING FINISH AS REQUESTED BY THE ARCHITECT.
- 11.5. WHERE ACCESS PANELS WILL BE USED, PROPER SHOP DRAWINGS ARE TO BE SUBMITTED FOR APPROVAL, PRIOR TO INSTALLATION.

12. PAINTING AND FINISHES

- 12.1. ALL ELECTRICAL FITTINGS, SUPPORTS, HANGER RODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, BRACKETS, CLAMPS, ETC., SHALL HAVE GALVANIZED FINISH OR PAINT FINISH OVER CORROSION-RESISTANT PRIMER.
- 12.2. ALL PANELS OR SIMILAR FACTORY FINISHED UNITS THAT ARE SCRATCHED OR MARKED DURING INSTALLATIONS SHALL BE TOUCHED UP WITH MATCHING SPRAY OR DRY LACQUER AND IF REQUIRED TO PROVIDE SATISFACTORY JOB SHALL BE COMPLETELY REFINISHED.

13. MOUNTING HEIGHTS

13.1. INSTALL ELECTRICAL EQUIPMENT AT THE FOLLOWING HEIGHTS UNLESS OTHERWISE INDICATED (MEASUREMENTS ARE TO CENTER OF DEVICE BOX):

LOCAL LIGHT SWITCHES, DIMMERS;	1200MM	
GENERAL WALL RECEPTACLES;	300MM	
RECEPTACLES ABOVE COUNTERS AND BAG	CK SPLASH;	175MM
(REFER TO DETAILS ON ARCHITECTURAL)		
RECEPTACLES IN MECHANICAL / JANITOR F	ROOMS;	1000MM
DOORBELL / PUSHBUTTON;	1300MM	
HANDICAP DOOR PUSHBUTTON;	1067MM	
CARD READER;	1150MM	
SECURITY KEYPAD;	1400MM	

- 13.2. CONFIRM ALL OTHER EQUIPMENT HEIGHTS IN WRITING.
- 13.3. ARCHITECTURAL DRAWINGS SUPERSEDE HEIGHTS AND LOCATIONS INDICATE ON ELECTRICAL DRAWINGS AND SPECIFICATIONS.

14. SHOP DRAWINGS

- 14.1. THE ELECTRICAL CONTRACTOR MUST REVIEW AND STAMP ACCEPTABLE ALL SHOP DRAWINGS PRIOR TO SUBMITTING TO THE ENGINEER.
- 14.2. ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, ONE (1) SET OF ELECTRONIC SHOP DRAWINGS IN PDF FORMAT INCLUDING BUT NOT LIMITED TO DISTRIBUTION, LUMINAIRES, EXIT SIGNS, MOTION SENSORS, BATTERY PACKS, FIRE ALARM EQUIPMENT AND COMMUNICATION EQUIPMENT AND CABLING.
- 14.3. ENGINEER SHALL BE ALLOWED MINIMUM 7 BUSINESS DAYS TO RETURN REVIEWED SHOP DRAWINGS.
- 14.4. SCANNED SHOP DRAWINGS MUST BE LEGIBLE. SHOP DRAWINGS WHICH ARE UNCLEAR WILL BE REJECTED AND RETURNED FOR RESUBMISSION.
- 14.5. SHOP DRAWING SHALL BE SPECIFIC TO THIS PROJECT ONLY. GENERIC DRAWINGS WILL NOT BE ACCEPTED. INDICATING ARROWS SHALL HIGHLIGHT THE PRODUCT FOR APPROVAL. GENERIC DRAWINGS, DRAWINGS WITHOUT INDICATING ARROWS AND DRAWINGS WITHOUT CONTRACTOR REVIEWED STAMP WILL BE RETURNED REJECTED FOR RESUBMISSION.
- 14.6. THE ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN ONLY AND SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OR SUPPLIER FROM THEIR RESPONSIBILITY FOR ERRORS, PROPER FITTING, AND CONSTRUCTION OF THE WORK AND FURNISHING OF MATERIALS. THE APPROVAL SHALL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM THE CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED IN A COVERING LETTER ACCOMPANYING SUCH DRAWINGS.
- 14.7. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS
- 14.8. ANY WORK PERFORMED PRIOR TO THE RETURN OF REVIEWED SHOP DRAWINGS IS DONE AT THE RISK OF THE CONTRACTOR.

15. RECORDS PLANS

- 15.1. THE ENGINEER WILL FURNISH TO THE ELECTRICAL CONTRACTOR ONE SET OF WHITE PRINTS TO BE USED FOR RECORD WORK AS ACTUALLY INSTALLED. ELECTRICAL CONTRACTOR SHALL ACCURATELY RECORD ON THIS SET OF PLANS, DAY BY DAY, ALL OUTLETS, CONDUIT, LUMINAIRES EQUIPMENT BREAKER CHANGES IN PANELS, ETC. AS ACTUALLY INSTALLED ON THE JOB. ANY CHANGES TO THE CONTRACT WORK SHALL BE SIMILARLY RECORDED.
- 15.2. AS-BUILT DRAWINGS SHALL BE CLEARLY MARKED IN RED INCLUDING ALL CHANGES TO THE ORIGINAL TENDER DRAWINGS COVERED BY ADDENDA, CHANGE ORDERS, FIELD CHANGES, JOB CONDITIONS, ETC.
- 15.3. FINAL PAYMENT TO THE CONTRACTOR WILL NOT BE RELEASED UNTIL AS-BUILT DRAWINGS ARE RECEIVED BY THE ENGINEER. AS-BUILT DRAWINGS ARE TO BE TURNED OVER TO THE ENGINEER AT TIME OF FINAL INSPECTION

16. EQUIPMENT IDENTIFICATION

- 16.1. CLEARLY IDENTIFY ALL ELECTRICAL EQUIPMENT USING PRINTED PTOUCH LABELS OR LAMACOIDS. HAND-WRITTEN LABELS ARE UNACCEPTABLE.
- 16.2. ALL ELECTRICAL DISTRIBUTION EQUIPMENT SHALL HAVE A LAMACOID NAMEPLATE FASTENED TO THE OUTSIDE FRONT OF THE EQUIPMENT.
- 16.3. EQUIPMENT TAG NUMBER SHALL CONTAIN A MINIMUM OF; THE EQUIPMENT NAME, VOLTAGE, PHASE, WIRE (3 OR 4), AMPERAGE, SOURCE: XXXX, LOAD: XXXX. SUBMIT PROPOSED TAGGING FOR ENGINEER'S APPROVAL PRIOR TO FABRICATION.
- 16.4. PROVIDE TYPEWRITTEN CIRCUIT INDEXES FOR ALL PANELS.
- 16.5. JUNCTION BOXES SHALL ALL BE LABELED INDICATING THE SYSTEM AND OR CIRCUITS CONTAINED WITHIN.
- 16.6. ALL RECEPTACLES SHALL BE LABELED WITH THE CIRCUIT NUMBERS AND PANEL IDENTIFICATION. UTILIZE P-TOUCH ADHESIVE LABELS COMPLETE WITH A MINIMUM OF 5 LETTERING. I.E. "PNL-CCT."
- 16.7. ALL COMMUNICATIONS AND OTHER SYSTEMS CABLES AND DEVICES ARE TO BE IDENTIFIED AS PER THE EIA/TIA 606 STANDARDS. CONFIRM PROTOCOL WITH OWNER OR ENGINEER PRIOR TO COMMENCEMENT OF LABELS.
- 16.8. ALL LUMINAIRES CONNECTED TO EMERGENCY CIRCUITS TO BE LABELLED WITH P-TOUCH LABEL INDICATING PANEL AND CIRCUIT DESIGNATION. LABEL TO BE VISIBLE FROM BELOW AFTER INSTALLATION.

17. TESTS

17.1. ALL PORTIONS OF THE ELECTRICAL WORK SHALL BE TESTED AND CHECKED FOR SATISFACTORY OPERATION.

17.2. BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEM, PERFORM MEGGER TESTS ON ALL FEEDERS. RESULTS OF SUCH TESTS SHALL CONFORM TO THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE AND SHALL BE TO THE SATISFACTION OF THE AUTHORIZED INSPECTION AGENCY AND THE ENGINEER.

17.3. SUBMIT ALL TEST RESULTS TO THE ENGINEER FOR APPROVAL

- 17.4. ANY TEST RESULTS THAT DO NOT MEET THE MINIMUM REQUIREMENTS OF THE MANUFACTURER, CANADIAN ELECTRICAL CODE, AUTHORIZED INSPECTION AGENCY AND THE ENGINEER SHALL BE REPAIRED IN A METHOD APPROVED BY THE ENGINEER AND RETESTED AT THE EXPENSE OF THE CONTRACTOR
- 17.5. UPON COMPLETION OF THE WORK AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, CHECK THE LOAD BALANCE OF ALL FEEDERS AND AT DISTRIBUTION CENTER, PANELS, ETC. THE TESTS SHALL BE CARRIED OUT BY TURNING ON ALL POSSIBLE LOADS IN THE TENANT AND CHECKING LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS 15 PERCENT, RECONNECT CIRCUITS TO BALANCE THE LOAD.

18. GUARANTEE/WARRANTY

- 18.1. THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE FROM ENGINEER (C2 SCHEDULE) FOR THIS WORK.
- 18.2. THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.
- 18.3. THE PERIOD OF THE GUARANTEE SPECIFIED SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT SHALL BE BINDING ON WORK NOT OTHERWISE COVERED.
- 18.4. ELECTRICAL CONTRACTOR TO ISSUE LETTER STIPULATING WARRANTY PERIOD DATES FOR ALL EQUIPMENT.

19. BUILDING WIRING

- 19.1. ALL WIRING SHALL BE COPPER WITH RW90 X-LINK INSULATION IN ELECTRICAL METALLIC TUBING UNLESS INDICATED OTHERWISE ON DRAWINGS
- 19.2. NO WIRE SMALLER THAN NO. 12 AWG GAUGE SHALL BE USED FOR BRANCH CIRCUIT WIRING.

19.3. BX CABLE MAY BE USED ONLY AS FOLLOWS:

- 19.3.1. WITHIN NEW DRYWALL PARTITIONS WITHIN ONE ROOM TO INTERCONNECT ELECTRICAL DEVICES, EXCEPT THAT THE CONNECTION FROM THE JUNCTION BOX ABOVE THE SUSPENDED CEILING DOWN TO THE FIRST ELECTRICAL DEVICE IN THE DRYWALL SHALL BE WIRED IN THE EMT CONDUIT.
- 19.3.2. INDIVIDUAL DROPS FROM JUNCTION BOXES IN CEILING SPACES TO LUMINAIRES TO A MAXIMUM OF THREE (3) METRES. ("DAISY-CHAINING" OF LUMINAIRES IS NOT PERMITTED).
- 19.3.3. WITH THE ABOVE EXCEPTIONS, ALL 120-VOLT BRANCH CIRCUIT WIRING MUST BE INSTALLED IN EMT CONDUIT.
- 19.3.4. WIRING SHALL BE COLOUR CODED TO MATCH EXISTING INSTALLATION
- 19.4. CONDUIT TO BE SIZED IN ACCORDANCE WITH THE CANADIAN FLECTRICAL CODE.
- 19.5. WIRING SHALL BE COLOUR CODED AS FOLLOWS:

	120/208V	277/480V	347/600V
A PHASE	RED	ORANGE	ORANGE
B PHASE	BLACK	BROWN	BROWN
C PHASE	BLUE	YELLOW	YELLOW
NEUTRAL	WHITE	WHITE WH	ITE
GROUND	GREEN	GREEN	GREEN

19.6. ALL LINE VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT.

- 19.7. ALUMINUM CONDUCTORS MAY ONLY BE USED WHERE INDICATED ON DRAWINGS. APPLY ZINC JOINT COMPOUND ON ALL ALUMINUM CONDUCTORS PRIOR TO INSTALLATION OF CONNECTORS OR TERMINATING CONDUCTORS.
- 19.8. COMPUTER RECEPTACLES SHALL BE COMPLETE WITH A DEDICATED NEUTRAL CONDUCTOR PER PHASE.
- 19.9. VOLTAGE DROP FOR WIRING SHALL MEET REQUIREMETNS AS LAID OUT IN THE CANADIAN ELECTRICAL CODE. GENERALLY MAXIMUM BRANCH CIRCUIT CONDUCTOR DISTANCES (120VAC) TO MAINTAIN MAX. 3% VOLTAGE DROP ARE AS FOLLOWS:
 - 19.9.1. 15A-1P BREAKER #12AWG WIRING 80 FEET (24 METRES)
 - 19.9.2. 15A-1P BREAKER #10AWG WIRING 125 FEET (39 METRES)
 - 19.9.3. 20A-1P BREAKER #12AWG WIRING 60 FEET (18 METRES)
 - 19.9.4. 20A-1P BREAKER #10AWG WIRING 95 FEET (29 METRES)

20. DEMOLITION 20.1. GENERAL

- 20.1.1. ALL UNUSED AND ABBANDONNED CONDUIT, WIRE, HANGERS, ETC. SHALL BE REMOVED FROM THE CEILING SPACE.
- 20.1.2. ABANDONED BREAKERS IN PANEL BOARDS SHALL BE MARKED AS SPARE IF THEY NO LONGER SERVICE ANY LOAD.
- 20.1.3. AS NOTED ON DRAWINGS THE CONTRACTOR SHALL TURN OVER EQUIPMENT BEING REMOVED TO BUILDING MANAGEMENT. EQUIPMENT NOT REQUIRED BY BUILDING MANAGEMENT SHALL BE REMOVED FROM SITE BY THE CONTRACTOR.
- 20.1.4. THE CONTRACTOR SHALL SEAL ALL UNUSED OPENINGS DUE TO ELECTRICAL DEMOLITION TO ENSURE THAT FIRE-RESISTANCE RATING IS MAINTAINED. REFER TO "FIRE STOPPING" SECTION OF THIS SPEC.
- 20.1.5. IF INDICATED ON DRAWINGS, PROVIDE BLANK COVER PLATE MATCHING WALL FINISH FOR BOXES TO REMAIN. 20.2. LIGHTING
 - 20.2.1. ALL UNUSED AND ABBANDONNED CONDUIT, WIRE, HANGERS, ETC. SHALL BE REMOVED FROM THE CEILING SPACE.
 - 20.2.2. EXISTING BUILDING LUMINAIRES SHALL BE REMOVED AS NOTED ON DRWAINGS.
- 20.3. POWER
 - 20.3.1. ALL CIRCUITS ORIGINATING FROM PANELBOARDS LOCATED IN ELECTRICAL ROOM WHICH ARE NOT BEING RE-USED SHALL BE PULLED BACK TO THE PANEL.

- 20.3.2. THE ELECTRICAL CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DEFICIENCIES THAT ARE ENCOUNTERED DURING THE DEMOLITION.
- 20.3.3. ALL ELECTRICAL DEVICES ON EXISTING WALLS BEING DEMOLISHED ARE TO BE REMOVED.
- 20.3.4. ENSURE THAT ALL EXISTING RECEPTACLES LEFT ISOLATED BY THE REMOVAL OF OUTLETS IN THE SAME RUN SHALL BE RE-FED TO BECOME FULLY FUNCTIONAL TO THE SATISFACTION OF THE ENGINEER.

20.4. COMMUNICATIONS

- 20.4.1. ALL UNUSED AND ABBANDONNED CONDUIT, WIRE, HANGERS, ETC. SHALL BE REMOVED FROM THE CEILING SPACE.
- 20.4.2. EXISTING COMMUNICATIONS CABLING AND CONNECTORS SHOWN ON EXISTING WALLS BEING DEMOLISHED ARE TO BE REMOVED. COMMUNICATION OUTLETS THAT ARE NOT BEING REUSED SHALL BE BLANKED OFF WITH BLANK COVER PLATES, IF INDICATED ON DRAWINGS.

20.5. SYSTEMS

21. WIRING DEVICES

- 20.5.1. SECURITY DEVICES AND ASSOCIATED WIRING NOT BEING REUSED SHALL BE REMOVED.
- 21.1. BOXES, EXCEPT WHERE OTHERWISE NOTED, SHALL BE PRESSED SHEET STEEL GALVANIZED TO CSA STANDARDS.
- 21.2. ALL OUTLETS FOR FLUSH WALL-MOUNTING SWITCHES, RECEPTACLES, TELEPHONE AND LV OUTLETS SHALL BE NO.52151 BOX WITH APPROPRIATE PLASTER COVER FOR SINGLE OR 2-GANG OUTLETS OR 4-GANG OUTLETS.
- 21.3. FLUSH MOUNTING VOICE/DATA WALL OUTLETS SHALL BE NO. 52151 SERIES (4-INCH SQUARE, 1.5 INCHES DEEP WITH APPROPRIATE PLASTER OR EXTENSION RING).
- 21.4. USE A SINGLE COVER PLATE FOR RECEPTACLE OUTLET BOXED WHERE SHOWN GANGED.
- 21.5. GANG BOXES AND WIRING DEVICES ARE GROUPED. ELECTRO-GALVANIZED STEEL MULTI GANG BOXED SHALL BE USED WHERE MORE THAN 2 DEVICES ARE GANGED TOGETHER.
- 21.6. SECTIONAL TYPE BOXES OR HANDY BOXES SHALL NOT BE USED. 21.7. RECEPTACLES SHALL BE WHITE DECORA TO MATCH EXISTING.
- COMPUTER RECEPTACLES SHALL BE GREY DECORA.
- 21.8. SPECIAL RECEPTACLES WILL BE AS SHOWN ON THE DRAWINGS.
- 21.9. RECEPTACLES TO BE OF SPECIFICATION GRADE AND OF ONE MANUFACTURER. ACCEPTABLE MANUFACTURES ARE LEVITON, THOMAS AND BETTS, COOPER WIRING DEVICES.
- 21.10. PLATES FOR ALL FLUSH MOUNTING DEVICES SHALL BE WHITE DECORA. EXISTING DAMAGED FACEPLATES ARE TO BE REPLACED WITH NEW.
- 21.11. P-TOUCH ADHESIVE LABEL COMPLETE WITH A MINIMUM 5MM LETTERS TO BE PROVIDED ON ALL EXISTING AND NEW RECEPTACLES INDICATING CIRCUIT AND PANEL DESIGNATION.
- 21.12. TRACE CIRCUITS FOR EXISTING RECEPTACLES AND ENSURE EXISTING RECEPTACLES ARE LABELLED.

22. SUPPORTING DEVICES

- 22.1. CONDUIT SUPPORTS 22.1.1. SINGLE RUNS - TO BE GALVANIZED CONDUIT STRAPS OR RING BOLT RANGE 1 TYPE HANGERS
 - 22.1.2. MULTIPLE RUNS (THREE OR MORE) CONDUIT RACK
- 22.1.3. VERTICAL RUNS CHANNEL SUPPORT WITH CONDUIT
- 22.2. INSTALL TO MAINTAIN HEADROOM, NEAT MECHANICAL APPEARANCE AND TO SUPPORT EQUIPMENT LOADS REQUIRED.
- 22.3. WHERE INSERTS ARE REQUIRED IN CONCRETE, EXPANSION INSERTS, LEAD INSERTS OR PLASTIC INSERTS MAY BE USED IN DRILLED HOLES. WOOD OR FIBRE PLUGS NOT PERMITTED.
- 22.4. ALL ELECTRICAL DISTRIBUTION INCLUDING CABLE TRAY AND CONDUIT, WHICH IS MOUNTED ABOVE THE SUSPENDED CEILING, SHALL BE SUPPORTED DIRECTLY AND INDEPENDENTLY FROM THE CONCRETE SLAB.
- 22.5. THE USE OF ANY PART OF THE CEILING SUSPENSION SYSTEM AS A SUPPORT OR FOUNDATION FOR THE SUSPENSION OF CABLE TRAY, CONDUIT OR FLEXIBLE CONDUIT IS FORBIDDEN.
- 22.6. THE USE OF ANY DRYWALL OR WALL PARTITION AS A SUPPORT OR FOUNDATION FOR CABLE TRAY OR CONDUIT ROUTED HORIZONTALLY THROUGH THE CEILING SPACE IS FORBIDDEN.
- 22.7. SUPPORT HANGERS AND OTHER TRADES TO SUPPORT NON-ELECTRICAL SERVICES OR DEVICES SHALL NOT USE TRAYS INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 22.8. ALL EQUIPMENT THAT MAY TRANSMIT VIBRATION TO THE BUILDING STRUCTURES IS TO BE INSTALLED USING SUITABLE METHODS TO PREVENT THE TRANSMISSION OF THE VIBRATIONS TO THE BUILDING STRUCTURE.

23. GROUNDING

- 23.1. SUPPLY AND INSTALL COMPLETE GROUNDING SYSTEM AS INDICATED AND AS REQUIRED BY CANADIAN ELECTRICAL CODE AND ELECTRICAL INSPECTION DEPARTMENT.
- 23.2. ALL COMPONENTS SHALL BE SECURELY AND ADEQUATELY GROUNDED AND WHERE REQUIRED TO ACCOMPLISH THE GROUNDING STUDS AND BUSHINGS SHALL BE USED. ENSURE THAT ALL RACEWAYS, TERMINAL PANELS, ETC., FOR TELEPHONE, LOW VOLTAGE, FIRE ALARM, CABLE TRAY, SOUND, ETC., ARE SECURELY AND ADEQUATELY GROUNDED.
- 23.3. PROVIDE 1#6 INSULATED GROUND TO EACH DATA RACK AND TELEPHONE SWITCH.
- 24. COMMUNICATION CABLING RACEWAY SYSTEM
- 24.1. SUPPLY AND INSTALL CABLE TRAY, CONDUIT, JUNCTION AND OUTLET BOXES TO FORM A COMPLETE EMPTY RACEWAY SYSTEM AS DESCRIBED HERE AND INDICATED ON THE DRAWINGS. ALL EMPTY CONDUITS SHALL BE COMPLETE WITH PULL WIRE.
- 24.2. AT EACH COMMUNICATIONS DATA, TELEPHONE OR COMBINATION DATE/TELEPHONE OUTLET PROVIDE AN APPROPRIATELY SIZED BOX, WITH PLASTER RING FOR SINGLE GANG FACEPLATE AND ASSOCIATED COMMUNICATIONS CONNECTORS. FROM EACH OUTLET BOX, STUB A CONDUIT INTO THE ABOVE CEILING SPACE TO A HEIGHT OF 150 MM ABOVE THE CEILING; PROVIDE A CONNECTOR COMPLETE WITH PLASTIC BUSHING IN EACH CONDUIT TO PREVENT CABLE DAMAGE. REFER TO INSTALLATION DETAILS ON DRAWINGS FOR ADDITIONAL INFORMATION.

25. SEALING AND FIRE PROTECTION

- 25.1. WHERE CABLES OR CONDUITS PASS THROUGH FIRE RATED ASSEMBLIES SUCH AS FLOORS, WALLS, CEILINGS, ETC., THE FIRE RATING OF THESE ASSEMBLIES SHALL BE MAINTAINED.
- 25.2. USE APPROVED AND ULC LISTED FIRE STOP MATERIAL AND METHODS.

COMMON-TRI TRIPPED, CL 26.11. ALL ELECTRIC

27. LUMINAIRES

- 27.1. SUPPLY AND THIS CONTR/
- 27.2. SUPPLY AND RESPONSIBIL

27.3. LUMINAIRES

27.5. REPLACE BL

- 27.6. ALL FLUORE LAMPS AND PROGRAMME
- 27.7. UNLESS OTH

STANDARD 3 27.8. INCANDESCE

SERVICE TYP

27.12. LUMINAIRE SO

28. MECHANICAL EQUIPM 28.1. ELECTRICAL

26. PC	OWER	DISTRIBUTION		DATE ISS	UED FOR	<u>۲</u>
2	6.1.	PROVIDE NEW EQUIPMENT AS INDICATED ON THE DRAWINGS.	02	2-26-15 ISSUED FO	R 30% PROGRESS	0
2	6.2.	ALL EQUIPMENT TO BE CSA APPROVED.	03	3-31-15 ISSUED FC	OR FINAL REVIEW	1
2	0.5.	UNDER THIS CONTRACT.	04	4-22-15 ISSUED	FOR TENDER	2
2	6.4.	PROVIDE TYPEWRITTEN DIRECTORY OF PANEL LOADS AND AFFIX TO PANELBOARD DOORS.		I		
2	6.5.	PANELBOARDS SHALL BE COMPOSED OF THE NUMBER OF CIRCUIT BREAKERS WITH POLES AND TRIP RATINGS AS LISTED IN THE SCHEDULES. WHERE SPACE ONLY IS CALLED FOR, PROVIDE ALL MOUNTING BRACKETS, BUSBAR DRILLINGS, FILLER PLATES, ETC., TO FACILITATE INSTALLATION OF FUTURE BREAKERS.				
2	6.6.	WHERE EXISTING PANELBOARDS ARE SHOWN TO BE REPLACED WITH NEW, CONTRACTOR SHALL RELOCATE ALL EXISTING BRANCH CIRCUITS TO NEW PANELBOARD AND PROVIDE NEW BREAKERS FOR EXISTING AND NEW CIRCUITS.		nis drawing has been pi	repared solely for the	
2	6.7.	WHERE PANELBOARDS ARE SHOWN TO BE DOUBLE-LUGGED, CONTRACTOR SHALL PROVIDE NEW DOUBLE LUG KITS IN EXISTING AND NEW PANELBOARDS.	of an Pla En	the CLIENT and there a ny kind made by NO anners to any party wit ngineers Planners has nc	are no representations RR Architects Engine h whom NORR Archite t entered into a contra	of ers ects ct.
2	6.8.	WHERE CALLED FOR, PROVIDE AN ISOLATED STANDOFF GROUND BUS FOR NEW OR EXISTING PANELBOARDS AND CONNECT BACK TO THE BUILDING GROUND WITH INSULATED #2 AWG.	Th pu an	nis drawing shall not k rposes until the seal ar d dated by the Architec	be used for construct opearing hereon is sign t or Engineer.	ion nec
2	6.9.	PANELBOARDS: SHALL BE 120/208V OR 347/600V 3Ø 4W (FCN) 225A RATED AND COMPOSED OF THE NUMBER OF CIRCUIT BREAKERS WITH POLES AND TRIP RATINGS AS LISTED IN THE SCHEDULES. PANELS SHALL BE TIN-PLATED ALUMINUM BUSSING. PANELBOARD ENCLOSURE TO BE SPRINKLER-PROOF WITH FULL 3" DRIP-HOOD.	Ke	eyplan		
2	6.10.	BREAKERS TO BE BOLT-ON TYPE AND MEET OR EXCEED THE AVAILABLE FAULT CURRENT INDICATED ON THE SINGLE LINE DIAGRAM. BREAKERS OF MULTIPLE POLE CONFIGURATIONS SHALL BE COMMON-TRIP SINGLE HANDLE. BREAKERS TO BE 3-POSITION (OPEN, TRIPPED, CLOSED).				
2	6.11.	ALL ELECTRICAL EQUIPMENT SHALL BE GREY ANSI 49 PAINTED. INTERRUPTING CAPACITY/WITHSTAND RATINGS FOR DISTRIBUTION EQUIPMENT SHALL MEET OR EXCEED LEVELS INDICATED ON SINGLE LINE DRAWINGS.				
27. Ll	JMINA	IRES				
2	7.1.	SUPPLY AND INSTALLATION OF ALL LUMINAIRES SHALL FORM PART OF THIS CONTRACT.		Srth Arrow	Detail Symbol	
2	7.2.	SUPPLY AND INSTALLATION OF LIGHITNG CONTROLS WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.				
2	7.3.	LUMINAIRES SHALL BE ADDED, RELOCATED OR REMOVED AS INDICATED.			SHEET #	
2	7.4.	ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND REPLACING ALL DAMAGED LENSES, FAULTY BALLASTS AND PROVIDE TOUCH-UP PAINT WHERE REQUIRED.		NOR THE	Symbol not to scale	
2	7.5.	REPLACE BURNT-OUT LAMPS FOR FLUORESCENT, INCANDESCENT, AND LOW VOLTAGE LUMINAIRES WHERE REQUIRED.				
2	7.6.	ALL FLUORESCENT LUMINAIRES TO BE SUPPLIED COMPLETE WITH LAMPS AND ELECTRONIC BALLAST <10% THD, RAPID START OR PROGRAMMED START.		onsultants Iivil: .andscape:		
2	7.7.	UNLESS OTHERWISE NOTED, ALL FLUORESCENT LAMPS SHALL BE STANDARD 3500K, T8 LOW MERCURY, CRI 85.	S	Architectural: Arructural: Aechanical: NORR		
2	7.8.	INCANDESCENT LAMPS TO BE 5,000 HOURS, 130 VOLT EXTENDED SERVICE TYPE.	E	lectrical: NORR		
2	7.9.	SPECIAL LAMPS TO BE USED WHERE INDICATED WITH THE LONGEST LIFE AVAILABLE IN EACH CATEGORY.				
2	7.10.	ACCEPTABLE LAMP MANUFACTURER'S: SYLVANIA, GE, PHILLIPS.	Se	al(s)		
2	7.11.	ACCEPTABLE BALLAST MANUFACTURER'S: GE, PHILLIPS, LUTRON.		WAL ENG	NECT	
28. M	ECHA	NICAL EQUIPMENT WIRING		Stone Sunt	AN EL	
2	8.1.	ELECTRICAL CONTRACTOR TO PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECT, ETC., REQUIRED FOR MECHANICAL EQUIPMENT.		Line of the second seco	BERT	
2	8.2.	ALL LOW VOLTAGE CONTROLS AND CONTROL WIRING WILL BE THE RESPONSIBILITY OF THE MECHANICAL TRADE AND/OR HIS CONTROL SUB-TRADE. 120V CONNECTION FOR CONTROLS CONTRACTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH CONTROLS CONTRACTOR FOR LOCATION.		April 24	2015	
2	8.3.	ELECTRICAL CONTRACTOR SHALL CONFIRM WITH THE MECHANICAL TRADE, THE SIZE, CHARACTERISTICS, AND LOCATIONS OF ALL MECHANICAL EQUIPMENT BEFORE INSTALLATION OF CONDUITS, OUTLETS, HEATERS ETC.				
29. EN	IGINE	ER'S INSPECTIONS		NOK		
2	9.1.	AT MINIMUM, AN INSPECTION WILL BE CARRIED OUT BY THE ENGINEER AT ROUGH-IN STAGE AND AT COMPLETION.		ARCHITECTS ENGINEERS PL An Ingenium Group Company	L ANNERS	
2	9.2.	THE ELECTRICAL CONTRACTOR SHALL ADVISE THE ENGINEER WHEN ALL WORK HAS BEEN COMPLETED ABOVE THE SUSPENDED CEILING.		221-10 Ave SE, Suite 100.		
FAILU	RE TO	D NOTIFY THE ENGINEER IN TIME WILL NECESSITATE THE REMOVAL OF		Calgary, Alberta, Canad www.norr.com	a T2G 0V9	
A THE E		RICAL CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL ALLOW		A Partnership of Limited C Poon McKenzie Architects (Alberta) Inc. Poon McKenzie	Companies nzie Holdings Inc.	
A	T LEA	ST 3 WORKING DAYS NOTICE OF THE INSTALLATION OF CEILING TILES.		NORR is a trademark owned by Ingenium Group Inc. Victor Smith, Architect, AAA, B.Arch, MAIB Ronald M. Poon, Architect, AAA, M.Arch, N Bruce G. McKenzie, Architect, AAA, M.Arch	. and is used under license. C IAIBC 1, MAIBC	
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