PLOTTED: Wednesday, March 07, 2018 @ 03:33PM

PROJECT GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS WELL AS THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL REPORT ANY CONFLICTS TO THE ENGINEER AS SOON AS THEY ARE DISCOVERED.
2. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE A.D.A.A.G. (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
3. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS PRIOR TO BIDDING JOB AND DURING CONSTRUCTION. EXCEPT AS OTHERWISE NOTED, THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND LABOR FOR A COMPLETE PROJECT AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATIONS CARRY EQUAL IMPORTANCE AND ITEMS LISTED IN EITHER SHALL BE FURNISHED AS IF LISTED IN BOTH. ALSO REVIEW DETAILS AND RISER DIAGRAMS FOR ADDITIONAL ITEMS/INSTRUCTIONS WHETHER SPECIFICALLY REFERRED TO ON PLANS OR NOT.
4. THE CONTRACTOR MUST VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING SITE CONDITIONS WHICH WILL BE AFFECTED DURING CONSTRUCTION PRIOR TO SUBMITTING HIS BID PROPOSAL, INCLUDING THE EXTENT OF DEMOLITION AND CONFLICTS WITH PLANS.
5. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOW THE GENERAL INSTALLATION OF EQUIPMENT AND MATERIALS IN RELATIONSHIP TO STRUCTURE AND OTHER TRADES. THEY MAY NOT SHOW EVERY REQUIRED OFFSET, FITTING, ETC. CONTRACTOR SHALL FIELD VERIFY ACTUAL JOB CONDITIONS AND COORDINATE WORK WITH OTHER TRADES PRIOR TO BIDDING JOB AND PRIOR TO ORDERING EQUIPMENT, FABRICATION OF MATERIALS, OR STARTING WORK. CONTRACTOR SHALL NOT SCALE THE DRAWINGS.
6. REFER TO ALL PLANS/SPECIFICATIONS FOR A DETAILED DESCRIPTION OF ALL ALTERNATES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL ITEMS THAT AFFECT OTHER DISCIPLINES WITH THE CORRESPONDING CONTRACTOR AND THE GENERAL CONTRACTOR IF EQUIPMENT, MATERIALS, ETC. OTHER THAN THOSE SCHEDULED AND SPECIFIED (PENDING PRE-APPROVAL) ARE FURNISHED.
8. CHANGE ORDERS WILL NOT BE GRANTED DUE TO LACK OF COORDINATION WITH JOB CONDITIONS AND/OR OTHER CONTRACTORS.
9. EXISTING EQUIPMENT, FIXTURES, DEVICES, AND CIRCUITS ARE SHOWN FOR REFERENCE ONLY. ADJUST EXACT INSTALLATION AND CONNECTION OF NEW ITEMS ACCORDING TO ACTUAL CONDITIONS.
10. G.C. SHALL CUT AND PATCH FLOOR, WALLS, AND ROOF AS REQUIRED FOR INSTALLATION/DEMOLITION OF ELECTRICAL SYSTEMS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF RELOCATED EQUIPMENT AND MATERIALS DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
12. UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER, ARCHITECT, AND ENGINEER SHOWING EQUIPMENT, FIXTURES, DEVICES, CIRCUITS, ETC. THAT DIFFERS FROM CONSTRUCTION DOCUMENTS AS THEY ARE ACTUALLY INSTALLED.
13. THE RESPONSIBILITY OF EACH CONTRACTOR IS NOT LIMITED TO THEIR SPECIFIC DISCIPLINE'S DRAWING SHEETS. REFER TO OTHER DISCIPLINES' DRAWING SHEETS AS REQUIRED FOR ADDITIONAL INFORMATION/INSTRUCTIONS.
14. FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS. SLEEVE IN ENTIRETY WITH APPROPRIATE SLEEVE MATERIAL.

ELECTRICAL GENERAL NOTES

A. GENERAL:
1. THE BUILDING SECURITY SYSTEM IS PART OF THE WORK. RACEWAYS ARE PART OF THE WORK.
2. TELEPHONE AND DATA SYSTEM AND WIRING IS PART OF THE WORK. NOTED RACEWAYS ARE PART OF THE WORK.

B. COORDINATION WITH OTHER TRADES:
1. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION.
2. ELECTRICAL CONTRACTOR SHALL VERIFY TOTAL CONNECT LOAD/HP WITH MECHANICAL AND ALL OTHER CONTRACTORS PRIOR TO WIRING OF ALL EQUIPMENT. MAKE ANY CHANGES TO OVERCURRENT DEVICES OR FEED SIZE PER THE NATIONAL ELECTRICAL CODE, APPLICABLE VERSION.
3. ALL TEMPERATURE CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY OTHERS. INSTALL CONDUIT FOR CABLE IN EXPOSED AREAS. REFER TO MECHANICAL PLANS AND SPECIFICATIONS AND THE TEMPERATURE CONTROLS CONTRACTOR FOR EXACT LOCATION OF MECHANICAL EQUIPMENT AND THERMOSTAT LOCATIONS.

C. CONDUIT AND WIRE:
1. ALL POWER WIRING OF ALL SYSTEMS SHALL BE COPPER WITH INSULATED GROUND WIRE IN STEEL CONDUIT AND STEEL BOXES UNLESS SPECIFICALLY NOTED OTHERWISE.
2. RACEWAYS SHALL BE ROUTED OVERHEAD UNLESS OTHERWISE NOTED ON THE DRAWINGS. UNDERSLAB RACEWAYS ARE ALLOWED FOR PANEL FEEDERS ONLY UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL PANELBOARD BRANCH CIRCUITS SHALL BE ROUTED OVERHEAD WHERE POSSIBLE.
3. ALL CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATIONS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, NOT LESS THAN 12" IN LENGTH, NOR GREATER THAN 36" IN LENGTH.
4. ALL CABLES INSTALLED IN AIR HANDLING PLENUMS SHALL BE PLENUM RATED CABLE.
5. MULTIPLE CIRCUITS ON THE SAME PHASE SHALL NOT BE COMBINED IN A SINGLE RACEWAY UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS. SINGLE PHASE BRANCH CIRCUIT HOME RUNS MAY BE COMBINED AT THE CONTRACTOR'S DISCRETION NOT GREATER THAN THREE CIRCUITS CONSISTING OF (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, AND GROUNDING CONDUCTOR.
6. THE MINIMUM WIRE SIZE SHALL BE #12 FOR ALL POWER CIRCUITS. EACH CIRCUIT SHALL HAVE A SEPARATE AND DEDICATED NEUTRAL FROM THE PANEL. SEE BRANCH CIRCUIT VOLTAGE DROP TABLE FOR SIZING OF CONDUCTORS.
7. THE MINIMUM CONDUIT SIZE IS 0.75".
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BUILDING EXPANSION JOINTS. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH EXPANSION FITTINGS, UNLESS THE CONDUIT IS BELOW SLAB IN THE DENSE GRADE AGGREGATE. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC, AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.
9. ALL EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR, AND SHALL BE RIGID GALVANIZED UNLESS OTHERWISE NOTED.
10. EXTERIOR EXPOSED CONDUIT RUNS WILL NOT BE PERMITTED. (EXCEPT FOR NEW SERVICE ENTRANCES FOR POWER OR TELEPHONE, OR NOTED OTHERWISE ON PLAN.)
11. UNDER-SLAB CONDUIT SHALL NOT BE IN THE SLAB, BUT BELOW IT IN THE DENSE GRADE AGGREGATE, AND PARALLEL TO THE SLAB.
12. ALL CONDUIT UNDER GROUND SHALL BE A MINIMUM OF 1". THIS APPLIES FOR BOTH LINE VOLTAGE AND DATA/COMMUNICATIONS. ALL BENDS UNDERGROUND, HORIZONTAL OR VERTICAL, SHALL BE RIGID GALVANIZED STEEL. NO EXCEPTION.
13. EACH DATA, TELEPHONE, AND CABLE TV OUTLET REQUIRES 0.75" CONDUIT, WITH PULL ROPE (LABELED AT EACH END FOR LOCATION AND PURPOSE) STUBBED 6" ABOVE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED ON PLANS. CONDUITS STUBBED UP ABOVE CEILING SHALL BE TURNED OUT 90°. PROVIDE INSULATED BUSHINGS ON ALL CONDUIT. LABEL CONDUIT TO IDENTIFY ITS INTENDED USE (IE: TELEPHONE, DATA, ETC.). EACH DATA/PHONE BOX SHALL BE A 4" SQUARE BOX WITH SINGLE GANG MUD RING.
14. MAINTAIN MAXIMUM SPACE BETWEEN LOW VOLTAGE CABLES WITH METAL CONDUCTORS AND SOURCES OF INTERFERENCE INCLUDING: POWER WIRING, ALL LIGHT FIXTURES, AND ESPECIALLY MOTORS AND TRANSFORMERS. ELECTRICAL INTERFERENCE IS REDUCED BY DISTANCE FROM SOURCES.

D. DEVICES AND BOXES:
1. WHERE SEVERAL DEVICES ARE GANGED TOGETHER, THE COVERPLATE SHALL BE OF THE GANGED STYLE FOR THE NUMBER OF DEVICES USED.
2. RECEPTACLES SHALL NOT BE WIRED TO THE LOAD SIDE OF A GFCI RECEPTACLE.
3. REFER TO THE ARCHITECTURAL DETAILS AND ELEVATIONS FOR MOUNTING HEIGHTS OF SWITCHES, RECEPTACLES, COUNTER TOP DEVICES, TELEPHONE OUTLETS, AND TELEVISION OUTLETS, ETC. ARCHITECTURAL DETAILS OVERRIDE ELECTRICAL SYMBOLS LIST.
4. WEATHERPROOF WHILE IN USE RECEPTACLE COVERS SHALL BE METAL, AND PAINTABLE UNLESS OTHERWISE NOTED.

E. ELECTRICAL-OTHER:
1. ALL PANELS SHALL BE PANELBOARD CONSTRUCTION WITH BOLT ON BREAKERS. TANDEM BREAKERS SHALL NOT BE USED.

ABBREVIATIONS

	DESCRIPTION		DESCRIPTION
A	AMPERES	KW	KILOWATT
AD	AREA DRAIN	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPACITY
AIC	AMPERES INTERRUPTING CAPACITY (K IS *1000)	MCOP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	MCP	MOTOR CIRCUIT PROTECTOR (MAGNETIC TRIP)
BFC	BELOW FINISHED CEILING	MFS	MAXIMUM FUSE SIZE
BFG	BELOW FINISHED GRADE	(N)	NEW
C	CONDUIT	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CT	MOUNTED 6" ABOVE COUNTER TOP	NO	NORMALLY OPEN
DN	DOWN	NTS	NOT TO SCALE
(E)	EXISTING	OCP	OVERCURRENT PROTECTION
EC	ELECTRICAL CONTRACTOR	P	POLE
EM	INDICATES DEVICE ON EMERGENCY CIRCUIT OR WITH AN EMERGENCY BATTERY	PH	PHASE
		POS	POINT OF SALE
FD	FIRE DAMPER	RLA	RUNNING LOAD AMPS
FLA	FULL LOAD AMPS	SPD	SURGE PROTECTIVE DEVICE
FP	FIRE PROTECTION	SR	SAFETY RECEPTACLE
FPC	FIRE PROTECTION CONTRACTOR	T-STAT	THERMOSTAT
FPI	FINS PER INCH	TCC	TEMPERATURE CONTROLS CONTRACTOR
FPM	FEET PER MINUTE	TP	TAMPER PROOF / SAFETY OUTLET OR COVERS
FPS	FEET PER SECOND	TYP	TYPICAL
FSD	FIRE/SMOKE DAMPER	UCT	MOUNTED UNDER COUNTER WITHIN 12" OF TOP.
GC	GENERAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
GFI/GFCI	GROUND FAULT INTERRUPTER	V	VOLTS
GND	GROUND	VFD	VARIABLE FREQUENCY DRIVE
HOA	HAND-OFF-AUTO SELECTOR SWITCH	W	WIRE
HP	HORSE POWER	WP	WEATHER PROOF
IG	ISOLATED GROUND	WPI	WP IN SERVICE (WITH PLUG INSERTED)
J-BOX	JUNCTION BOX	WR	WEATHER RESISTANT TYPE DEVICE

ABBREVIATION SCHEDULE NOTES:
1. SOME MAY NOT BE USED IN THIS SET OF PLANS.
2. ABBREVIATIONS MAY BE WITH OR WITHOUT PERIODS.

ELECTRICAL SYMBOL LIST

	SYMBOL	DESCRIPTION	MOUNTING OR AS INDICATED
LIGHTING	A	LIGHT FIXTURE WITH LETTER DESIGNATION	SURFACE OR RECESSED
	A	LIGHT FIXTURE W/EM POWER W/LETTER DESIGN.	SURFACE OR RECESSED
	A	LIGHT FIXTURE WITH LETTER DESIGNATION	WALL,SURFACE,SUSPENDED
	A	LIGHT FIXTURE WITH EMERGENCY POWER W/LETTER DESIGN.	WALL,SURFACE,SUSPENDED
	A	LIGHT FIXTURE WITH LETTER DESIGNATION	RECESSED OR SURFACE
	EM A	LIGHT FIXTURE WITH EM POWER WITH LETTER DESIGNATION	RECESSED OR SURFACE
	A	LIGHT FIXTURE WITH LETTER DESIGNATION	WALL
	EM A	LIGHT FIXTURE WITH EM POWER WITH LETTER DESIGNATION	WALL
	XA	EXIT LIGHT W/LTR. DESIGN. (SHADE INDICATES FACE DIRECTION)	CEILING
	XA	EXIT LIGHT W/LTR. DESIGN. (SHADE INDICATES FACE DIRECTION)	WALL – 6" ABOVE DOOR
	A	EMERGENCY LIGHT FIXTURE WITH LETTER DESIGNATION	WALL – 12" BELOW CLG
WIRING DEVICES	$	SINGLE POLE SWITCH	WALL – 48" AFF TO TOP
	$3	THREE-WAY SWITCH	WALL – 48" AFF TO TOP
	$4	FOUR-WAY SWITCH	WALL – 48" AFF TO TOP
	$P	SWITCH WITH PILOT LIGHT	WALL – 48" AFF TO TOP
	$K	KEY SWITCH	WALL – 48" AFF TO TOP
	$T	TIME SWITCH (SET FOR 30 MINUTES)	WALL – 48" AFF TO TOP
	$D	DIMMER SWITCH	WALL – 48" AFF TO TOP
	a,b,c,...	SWITCHING SCHEME	–
	#	MOTION DETECTOR (TYPE #)	WALL – 48" AFF TO TOP
	#	ULTRA SONIC SENSOR (TYPE #)	CEILING
		SINGLE RECEPTACLE (SAME RATING AS CIRCUIT)	WALL – 18" AFF
	IG	ISOLATED GROUND DUPLEX RECEPTACLE	WALL – 18" AFF
		DUPLEX RECEPTACLE (20 AMP)	WALL – 18" AFF
	TR	TAMPER-RESISTANT DUPLEX RECEPTACLE (20 AMP)	WALL – 18" AFF
	E	EMERGENCY RECEPTACLE (20 AMP)	WALL – 18" AFF
		QUAD-PLEX RECEPTACLE	WALL – 18" AFF
		SWITCHED DUPLEX RECEPTACLE	WALL – 18" AFF
		GFI DUPLEX RECEPTACLE (20 AMP)	WALL – 18" AFF
		GFI QUAD RECEPTACLE	WALL – 18" AFF
		SPECIAL OUTLET (SEE SCHEDULE)	WALL, FLOOR
		TELEPHONE OUTLET	WALL – 18" AFF
		DATA OUTLET	WALL – 18" AFF
		COMBINATION DATA AND TELEPHONE OUTLET	WALL – 18" AFF
		CLOCK OUTLET	WALL
	TV	CABLE T.V. OUTLET	AS NOTED
	C	CONTROLLER	WALL – 48" AFF
		CONNECT TO EXISTING	AS NOTED
POWER DISTRIBUTION	J	JUNCTION BOX	AS NOTED
	P	PULL BOX	AS NOTED
		SAFETY SWITCH (NON-FUSED)	6'-0" AFF TO TOP
		SAFETY SWITCH (FUSED)	6'-0" AFF TO TOP
	$DS	TOGGLE DISCONNECT SWITCH	WALL
		COMBINATION STARTER	WALL
		STARTER	WALL
		EMERGENCY STOP-MUSHROOM HEAD MAINTAINED PUSH BUTTON	44" AFF OR AFG
	M	MOTOR	AS NOTED
		ELECTRICAL PANELBOARD (SURFACE MTD.)	48" AFF TO CENTER UON
		ELECTRICAL PANELBOARD (FLUSH MTD.)	48" AFF TO CENTER UON
	"TTB"	TELEPHONE TERMINAL BOARD (SURFACE MTD.)	NOTE 2
	M	ELECTRICAL UTILITY METER	AS NOTED

SYMBOLS LIST NOTES:
1. ALL MOUNTINGS APPLY UNLESS OTHERWISE NOTED.
2. TTB SHALL BE MINIMUM VOID FREE, A/C 3/4" PLYWOOD WITH A FACE SHOWING, KILN DRIED WITH MAXIMUM 15% MOISTURE CONTENT, SECURELY ATTACHED TO WALL FRAMING MEMBERS, WITH FIRE RETARDANT COATING, OR INTUMESCENT WHITE PAINT. COVER WALL WITH TTB PLYWOOD FROM FLOOR TO 8' AFF.
3. LIGHT FIXTURE CAPITAL LETTER DESIGNATIONS KEY TO MATCHING ENTRIES IN THE LIGHTING FIXTURE SCHEDULE.
4. LIGHT FIXTURE SMALL CASE LETTER DESIGNATIONS (IF SHOWN) REPRESENT SWITCHING REQUIREMENTS.
5. ALL MOUNTING HEIGHTS SHALL BE TO CENTERLINE OF DEVICE U.O.N.

LINETYPES LEGEND

EXISTING/REFERENCE

WORK TO BE DONE

EXISTING TO BE DEMOLISHED

CIRCUITING LEGEND

TELEPHONE AND DATA OUTLET
(1) DATA
(1) TELEPHONE.
NODE
MOUNTING HEIGHT
24"

CEILING MOUNTED FIXTURE
FIXTURE TYPE
SWITCHING SCHEME

DATA OUTLET
DATA NODE
MOUNTING HEIGHT
(COUNTER TOP SHOWN)

WALL MOUNTED FIXTURE
FIXTURE TYPE
MOUNTING HEIGHT
7'-6"

DUPLEX RECEPTACLE
MOUNTING HEIGHT
TAMPER PROOF
OUTLET COVER
48" TP

CONDUIT RUN
ISOLATED GROUND CONDUCTOR
HOME RUN
PHASE OR SWITCH LEG
NEUTRAL CONDUCTOR

SPECIAL OUTLET
WALL MOUNT TYPE
SPECIAL OUTLET TYPE
MOUNTING HEIGHT
48"

NOTE: ALL CIRCUITS ARE TO BE ASSUMED AS (2)-#12 AND (1)-#12 GROUND U.O.N. GROUND CONDUCTORS ARE NOT INDICATED AND ARE ASSUMED TO BE PROVIDED WITH ALL CIRCUITS.

BRANCH VOLT DROP TABLE

FOR COPPER SINGLE PHASE 3% VOLTAGE DROP, 20 A CIRCUIT BREAKER

MAXIMUM DISTANCE		PHASE AND NEUTRAL SIZE	EQUIPMENT GROUND SIZE
120V	277V		
100'	250'	#12	#12
175'	400'	#10	#10
275'	600'	#8	#8
475'	1000'	#6	#6

VOLTAGE DROP TABLE NOTES:
1. DISTANCE GIVEN IS THE MAXIMUM FOR THE LONGEST RUN FOR ANY BRANCH, PANEL TO LOAD.
2. THE DISTANCES ARE FOR THE ENTIRE RUN IN THE GIVEN WIRE SIZE.
3. WIRE REDUCTIONS (WHERE REQUIRED BY DEVICE CONSTRUCTION) SHALL BE MADE WITHIN 3 FEET OF THE SOURCE OR LOAD, AND SHALL BE ONLY DOWN TO THE LARGEST WIRE SIZE THE DEVICE ALLOWS.
4. OTHER NEC DERATING FACTORS ARE NOT INCLUDED IN THE WIRE SIZES IN THIS TABLE.

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CODE INFORMATION

ELECTRICAL:

2014 NATIONAL ELECTRICAL CODE

ELECTRICAL SHEET INDEX

SE1.0	ELECTRICAL COVERSHEET
SE2.0	POWER/SYSTEMS DEMOLITION PLAN
SE2.1	LIGHTING DEMOLITION PLAN
SE3.0	POWER/SYSTEMS PLAN
SE3.1	ENLARGED POWER/SYSTEMS/LIGHTING PLAN
SE4.0	LIGHTING PLAN
SE5.0	ELECTRICAL DETAILS
SE6.0	ELECTRICAL SCHEDULES

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INTERIOR REMODEL
STRYKER SPORTS
WICHITA, KANSAS

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ELECTRICAL COVERSHEET

PROJECT NO.	1701010567
DATE	03-07-18
SCALE	AS NOTED

DESIGNED	DRAWN	CHECKED
CNG	CV	JRBW

NO.	REVISION	DATE
0	ISSUE FOR CONSTRUCTION	03-07-18

SHEET NO.
SE1.0

J:\PROJECTS\2017\1701010567_COW_STRYKER_1701667 CAD\SHTS\10 BLDG MEP\STADIUM PACKAGE\ELEC\SE1.0 ELECTRICAL COVERSHEET.DWG