

PART 1 - GENERAL

1.1 SUMMARY

- A. ALL WORK INDICATED ON DRAWINGS/SPECIFICATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE CITY, COUNTY AND STATE BUILDING CODES, AND THE LOCAL AUTHORITY HAVING JURISDICTION.
- B. THESE PLANS ARE DIAGNOSTIC AND SHOW THE EXISTENT LOCATION OF ROOFS, EQUIPMENT, PIPE ROUTING, AND OTHER FEATURES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FEATURES PRIOR TO INSTALLATION. THE CONTRACTOR SHALL COORDINATE INSTALLATION/ROUTING OF ALL WORK WITH EXISTING CONDITIONS AND OTHER TRADE'S WORK PRIOR TO ROUGH-IN. CONTRACTOR SHALL PROVIDE ALL NECESSARY ANCHORAGE DEVICES REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- C. ALL EXISTING INFORMATION SHOWN IS BASED ON NON-DESTRUCTIVE FIELD INVESTIGATION AND/OR EXISTING DRAWING INFORMATION. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE A/E OF ANY HIDDEN CONDITIONS FOUND THAT REQUIRE CORRECTIVE ACTION BEYOND THE A/E'S RESPONSIBILITY. ANY CORRECTIVE ACTION BEYOND THE A/E'S RESPONSIBILITY SHALL BE TURNED OVER TO THE A/E UPON CONTRACT COMPLETION.
- D. IF CONTRACTOR NOTICES THAT NECESSARY INFORMATION IS ABSENT ON DRAWINGS OR IN SPECIFICATIONS, SUCH THAT THE CONTRACTOR IS UNSURE OF MATERIALS, SIZING, OR ROUTING OF SYSTEMS, THEN IT IS IMPERATIVE THAT THE CONTRACTOR CONTACT THE ENGINEER DURING BID OR PRIOR TO ROUGH-IN TO REQUEST CLARIFICATION. IF THE CONTRACTOR PROCEEDS WITH INSTALLATION WITHOUT DIRECTION FROM THE ENGINEER, THEN CONTRACTOR ASSUMES ALL COST ASSOCIATED WITH HIS ACTIONS AND RESPONSIBILITY FOR THE FUNCTION OF SYSTEM.
- E. SUBMIT 4 COPIES OF PRODUCT AND CAPACITY DATA FOR SPECIFIED EQUIPMENT TO THE ARCHITECT/ENGINEER BEFORE ORDERING EQUIPMENT. IF CONTRACTOR ELECTS TO IGNORE REQUIREMENT FOR SUBMITTAL INFORMATION, OR IF SUBMITTAL IS RECEIVED AFTER INSTALLATION OF EQUIPMENT, THEN CONTRACTOR ASSUMES ALL COSTS ASSOCIATED WITH SUBSTITUTION AND RESPONSIBILITY FOR OPERATION, FUNCTION, AND COORDINATION OF EQUIPMENT PURCHASED.
- F. IF ALTERNATE EQUIPMENT IS USED OTHER THAN WHAT IS SPECIFIED ON THE DRAWINGS, THE CONTRACTOR SHALL COORDINATE THE REQUIREMENTS OF THAT EQUIPMENT WITH ALL OTHER TRADES. THIS COORDINATION SHALL OCCUR PRIOR TO ROUGH-IN OF ANY TRADES EQUIPMENT. ALL RENOVATION WORK REQUIRED TO COORDINATE ANY EQUIPMENT SUBSTITUTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- G. ALL PIPE PENETRATIONS THROUGH FIRE-RATED WALLS OR FLOORS SHALL BE SEALED PER ALL DETAILS SHOWN ON THE DRAWINGS. ALL PIPE PENETRATIONS THROUGH NON-RATED WALLS OR FLOORS SHALL BE SEALED WITH THE APPROPRIATE WALL/FLOOR MATERIALS PER THE ARCHITECTURAL SPECIFICATIONS. ALL PIPE PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH MATERIALS PER THE ARCHITECTURAL SPECIFICATIONS AND WATERPROOFED TO PREVENT UNDESIRABLE MOISTURE FROM ENTERING THE BUILDING. ALL ROOF PENETRATIONS SHALL BE FLASHED AND MADE WATERPROOF IN A MANNER THAT IS CONSISTENT WITH ROOF CONSTRUCTION AND APPROVED BY THE ROOF MANUFACTURER. PENETRATIONS SO AS NOT TO VOID THE ROOF MANUFACTURER'S WARRANTY. ALL FLOOR AND ROOF PENETRATIONS AND SEALING OF PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR.
- H. WHERE THE WORD "PROVIDE" IS USED, IT SHALL BE DEFINED TO MEAN THAT THE DEVICE/EQUIPMENT INDICATED SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

PART 2 - PRODUCT/EXECUTION

- 2.1. LIGHTING FIXTURES
- INSTALL ALL LIGHTING FIXTURES AS SPECIFIED ON THE DRAWINGS. FIXTURES SHALL BE FURNISHED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL LIGHTING FIXTURES SHALL BE INSTALLED IN THE LIGHT FIXTURE SCHEDULE ON THE DRAWINGS. LAMPS SHALL BE AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE ON THE DRAWINGS. LAMPS SHALL BE THOSE MANUFACTURED BY GENERAL ELECTRIC, SYLVANIA OR PHILIPS.
- ALL FLUORESCENT FIXTURES SHALL BE EQUIPPED WITH AN INTEGRATED CIRCUIT ELECTRONIC BALLAST. SOUND SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.
- CONDUIT IN AN AMBIENT TEMPERATURE OF 40 DEGREES C.

2.2 WIRING DEVICES

4. STANDARD DIP SWITCH RECEPTACLES SHALL BE HUBBELL #HBL3602, PASS & SENIOR #F3620 OR LEXTON #F3620. A COVER BY AMPHENOL.
5. TUMBLER TOGGLE TYPE LIGHT SWITCHES SHALL BE 120-277 VAC, 20A, HUBBELL NO. 1211/1223 OR EQUAL.
6. NUMBER OF POLES SHALL BE INDICATED BY THE DRAWING SYMBOLS. WHERE MORE THAN ONE SWITCH IS REQUIRED, THE NUMBER OF POLES SHALL BE INDICATED BY THE NUMBER OF SWITCHES. ALL SWITCHES SHALL BE INSTALLED UNDER A GANG PLATE IN AN ORDER APPROPRIATE TO THE OUTLET LOCATION, COLOR BY OUTLET.
7. SWITCHES CONTROLLING OR DISCONNECTING MOTOR LOADS IN EXCESS OF 1/3 HP, SHALL BE HORSEPOWER RATED AND APPROVED, FOR MOTOR CIRCUIT SERVICES.
8. WIRING DEVICE COMPARTMENTS SHALL BE AS SPECIFIED BY THE OUTLET FOR FINISHED AREAS, WHERE CONDUIT IS REQUIRED, SHALL BE GALVANIZED OR CAST METAL TO SUIT THE OUTLET BOX USED.
9. DIMMER WALL SWITCHES FOR INCANDESCENT LIGHT FIXTURES SHALL BE AS INDICATED ON DRAWINGS.
10. LIGHT SWITCHES SHALL BE LOCATED 6" TO CENTERLINE OF DEVICE AS MEASURED FROM THE EDGE OF THE DOOR JAMB OR FROM THE EDGE OF THE DOOR THRESHOLD IF MOUNTED ON THE WALL WHICH IS BEHIND THE DOOR WHEN OPENED.
11. DIMMER SWITCHES, RECEPTACLES, OR OUTLETS ARE SHOWN ON CASEWORK OR MILLWORK, MOUNT THEM SO THAT THEY ARE NOT IN LINE WITH ANY OTHER CONTROL OR 2" ABOVE BACKSPASH UNLESS NOTED OTHERWISE ON PLANS.
12. WHERE CODES CONFLICT WITH CASEWORK OR MILLWORK, THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE SUFFICIENTLY ADJUSTED TO MAKE THE COVER PLATE CLEAR THE BACKSPASH BY 1/4". REVIEW CASEWORK DRAWINGS PRIOR TO BIDDING FOR OUTLET BOXES.

3 CONDUIT

- [illegible]

LIGHT FIXTURE SCHEDULE									
FIXTURE TYPE	DESCRIPTION	MOUNTING	VOLTS/WHITS	LAMP NO.	LAMP TYPE	# OF BALLASTS	MANUFACTURER	SERIES NO.	REMARKS
A	STARRELL FIXTURE	WALL	120/64	2	F32 TB 95/35	1	UTRONA	WC 2 32 132 MWGL G810	MOUNT AT 9'-0" AFF
B	STRIP FIXTURE	CEILING	120/64	2	F32 TB 95/35	1	UTRONA	LC 2 32 MWGL G810	CHAIN MOUNT AT 9'-0" AFF
C	EXTERIOR WALL PACK	CEILING	120/100	1	70W AH	1	UTRONA	ASLT T30 SWS 120 PE	MOUNT AT 9'-0" AFF
D	BATHROOM FIXTURE	WALL	120/60	1	F30W AH	1	UTRONA	WC 2 30 132 MWGL G810	MOUNT AT 9'-0" AFF
E1	EMERGENCY/WALLPACK	WALL	120/100	2	70W TB	1	UTRONA	ASLT T30 SWS 120 GEB2 PE	MOUNT AT 9'-0" AFF
F	2X4 LAMIN FIXTURE	CEILING	120/64	2	F32 TB	1	UTRONA	267 2 32 132/125 120 GEB2	
X	EXIT FIXTURE	CEILING/WALL	120/3		LED		UTRONA	U40W P 3 R 120/277	

- E. ALL CONDUIT JOINTS WILL BE WATER TIGHT AND FREE FROM OBSTRUCTIONS, CLEANED AND DRY BEFORE PULLING IN. THE CONTRACTOR SHALL EXERCISE NECESSARY PRECAUTIONS TO PREVENT DIRT, PLASTER, OR TRASH IN UNWANTED LOCATIONS. CONDUITS SHALL BE COLOR CODED AND IDENTIFIED BY NUMBER. ALL CONDUIT ENDS SHALL BE PROTECTED WITH AN APPROVED CONDUIT SEAL. SEALS SHALL BE SECURELY COMPLETED AND NOT BE WITHDRAWN UNTIL ALL CONCRETE WORK, INCLUDING REINFORCING BARS, IS COMPLETE.
- F. CONDUITS SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO OUTLET, FROM OUTLETS TO CABINETS, PAUL OR JUNCTION BOXES, AND FROM CABLES TO PANELS. CONDUITS SHALL BE SECURED TO ALL BOXES WITH LOCKWITS AND BUSHING IN SUCH MANNER THAT EACH SYSTEM COMPONENT WILL BE ELECTRICALLY CONTINUOUS THROUGHOUT.
- G. CONDUIT TERMINALS AT CABINETS AND BOXES SHALL BE RIGIDLY SECURED WITH DOUBLE LOCKWITS AND BUSHINGS AS REQUIRED BY THE NEC AND LOCAL ELECTRICAL CODE. ON ALL CONDUIT 1-1/4" TRADE SIZE AND LARGER, BUSHINGS SHALL BE OF TYPE B.
- H. PROMOTION COUPLINGS MAY BE USED IN CONDUIT, BUT UNIONS WILL NOT BE PERMITTED. RUNNING THREADS WILL NOT BE PERMITTED.
- I. WHERE CONDUITS ARE RUN FROM INDOOR TO OUTDOOR CONDUITS SHALL BE SEALED WITH VAPOR SEA COMPOUND OR OTHER MATERIAL APPROVED BY THE ARCHITECT.
- J. WHERE AT A POINT OF ENTRY INTO BUILDING OR BUILDINGS.
- K. WHEN FLEXIBLE CONDUIT IS USED, IT SHALL BE SEAL TIGHT FLEX. FITTINGS FOR FLEX SHALL BE CRUISE HANDS TYPE 1 & B.
- L. ALL CONDUIT TERMINATIONS SHALL HAVE INLOW INSERT THRU BUSHINGS INSTALLED. BUSHINGS SHALL BE INSTALLED PRIOR TO CONDUCTOR INSTALLATION, CUT BUSHINGS SHALL NOT BE ALLOWED.
- M. NO CONDUIT PENETRATIONS THRU ELECTRICAL/MECHANICAL EQUIPMENT ENCLOSURES SHALL BE PROPERLY SEALED TO GO AS NOT TO VIOLATE THE ULL LISTING OR INTEGRITY OF THE FACTORY ENCLOSURE.
- #### 4.4 PULL BOXES AND JUNCTION BOXES
1. FINISH AND INSTALL PULL BOXES WHERE NECESSARY AND AS SHOWN ON THE DRAWINGS IN THE BACKLOG SYSTEMS TO FACILITATE CONDUCTOR INSTALLATION. IN GENERAL, CONDUIT RUNS OF MORE THAN 100 FT. OR WITH MORE THAN THREE LEFT-RIGHT BENDS SHALL HAVE A PULLBOX INSTALLED AT A PHYSICAL INTERMEDIATE LOCATION. ALL BOXES SHALL BE MADE OF GALVANIZED STEEL, METAL GAUGE AND CONVENTIONAL SIZE AS REQUIRED BY THE REC FOR THE NUMBER AND SIZE OF CONDUITS AND CONDUITS INVOLVED. UNSUPPORTED OVERHANGS SHALL HAVE DOWN SIZES FOR SUPPORT. PROVIDE A MINIMUM OF 18" CLEARANCE FROM THE BOTTOM OF THE BOX TO THE TOP OF THE CONDUIT BUNDLE OR LEADING THE CONDUITS TO THE BOX. PROVIDE A MINIMUM OF 18" CLEARANCE FROM THE TOP OF THE CONDUIT BUNDLE TO THE TOP OF THE BOX. WHEN SEVERAL CONDUCTORS PASS THROUGH A COMMON PULL BOX, THEY SHALL BE PADDED TO INDICATE THEIR DIFFERENT CHARACTERISTICS, CIRCUIT NUMBER AND PANEL DESIGNATION. IN NO CASE SHALL THE PULL BOX BE INSTALLED IN AN INACCESSIBLE LOCATION.
 2. PROVIDE INTERIOR BOXES OF GALVANIZED STEEL WITH GALVANIZED STEEL COVERS PER NEMA OS-1, AND LISTED UNDER UL-514.
 3. PROVIDE EXTERIOR BOXES OF TYPE FD FERROALLOY PER NEMA FB-1, WITH GASKETED COVER AND THREADED FLANGES.
- ALL ABOVE CEILING JBS'S SHALL BE COLOR CODED PER "JUNCTION BOX COLOR CODE LEGEND" THIS SHEET.








2.5 CONDUCTORS

- A CONDUCTOR SHALL BE SPLIT-RUNN COPPER UNLESS OTHERWISE NOTED, WITH INSULATION AND OUTER COVERING AS SPECIFIED OR AS SHOWN ON THE DRAWINGS. CONDUCTOR SIZES SHALL BE STANDARD AMERICAN WIRE GAUGES RATED AT 75 DEGREE CELSIUS.
- CONDUCTORS #0 AND LARGER SHALL BE STRAWDED. CONDUCTORS AND EQUIPMENT TERMINALS SHALL BE IDENTIFIED BY COLOR CODED, WITH A SEPARATE COLOR FOR EACH PHASE AND NEUTRAL AND GROUND. DIFFERENT COLORS SHALL BE USED FOR 120/208V SYSTEM AND 240V SYSTEMS TO BE CONSISTENT THROUGHOUT THE PROJECT.
- CONDUCTORS FOR ALL PURPOSES SHALL BE GREEN OR BLUE AS REQUIRED BY THE NATIONAL ELECTRICAL SAFETY CODE. COLORS FOR THE DIFFERENT VOLTAGE SYSTEMS SHALL BE IDENTIFIED WITH DIFFERENT COLOR SCHEMES AND IDENTIFIED WITH WHITE OR GREY FOR NEUTRAL OR GROUNDED CONDUCTORS. CONDUCTORS WITH EACH VOLTAGE SYSTEM SHALL HAVE AN ADDITIONAL COLOR IDENTIFICATION. CONDUCTORS SHALL BE IDENTIFIED BY A GREEN COLOR. ALL CONDUITS SHALL CONTAIN A GREEN GROUNDING CONDUCTOR.
- THE MINIMUM PIPE SIZE SHALL BE 41/2 INCH, EXCEPT THAT CONTROL WIRING MAY BE #14 AND OR #16 AND AS NOTED ON PLANS.
- CONDUCTORS #0 AND SMALLER SHALL BE TYPE THHN-THAN, #0 AND LARGER SHALL BE CLIP TYPE XHHW 90 DEGREE INSTALLATION. DONATE X-EAGLE PRODUCT GROUP 1122Z, OR EQUAL, IS ACCEPTABLE.
- CONTROL CONDUCTORS SHALL BE TAGGED OR IDENTIFIED AT EACH END ACCORDING TO DRAWINGS. ALL CONDUCTORS NOT IDENTIFIED ON DRAWINGS SHALL BE SYSTEMatically IDENTIFIED BY THE FOLLOWING:
- ALL THREE PHASE CONDUCTORS ARE RUN IN PARALLEL BOTH CONDUCTORS ARE TO BE TAPPED WHERE BRANCH CIRCUITS ARE TAKEN OFF.
- CONDUCTORS #10 AND SMALLER SHALL BE TERMINATED WITH STRA-VON OR EQUAL PRESSURE TIE TERMINALS. CONDUCTORS #12 AND SMALLER SHALL BE TERMINATED WITH STRA-VON OR EQUAL PRESSURE TIE TERMINALS. CONDUCTORS #14 AND LARGER SHALL BE TERMINATED WITH STRA-VON OR EQUAL PRESSURE TIE TERMINALS.
- SPACES BETWEEN CONDUCTORS SHALL BE MAINTAINED AS CLOSELY AS POSSIBLE BUT NOT LESS THAN SIX (6) INCHES SHALL BE MAINTAINED BETWEEN CONDUCTORS SHALL BE DOCUMENTED ON DRAWINGS AS TO LOCATION, WIRE TYPE AND SPACE METHOD. FOR INSPECTION PRIOR TO PUNCH LIST (CLOSEST) OF PROJECT.
- N.E.C SECTION 210-40 REQUIRES SEPARATE AND DISTINCT COLOR CODING ON MULTI-VOLTAJE SYSTEMS. PANELBOARD SIZES SHALL BE CLEARLY MARKED. THE IDENTIFICATION SHALL BE BY COLOR CODE OR TAGGING IN A CONSISTENT MANNER.
- ALL CONDUCTOR SPICES (WHERE ALLOWED) OR THIS SHALL BE MADE WITH COMPRESSION/RAMP TYPE FITTINGS AND COVERED WITH NYLON COVER CAPS. WIRE NUTS OR TAPPING OF SPICES/TAPS SHALL NOT BE ALLOWED. ALL CONDUCTORS INSTALLED TO ELECTRICAL EQUIPMENT SHALL BE HEAVILY TIE WRAPPED WITH NYLON TAPES. CONDUCTORS SHALL BE ROUTED PARALLEL & VERTICAL TO ENCLOSURE SIDES. ALL SWAMP EDGES ON CUT THE WRAPS SHALL BE COVERED.
- ALL SUPPORT METHODS SHALL BE CONTINUOUS FROM THE DISCONNECT SWITCH TO THE MOTOR/EQUIPMENT TAP LOCATIONS. CONDUCTORS SHALL NOT BE ALLOWED.
- CONTRACTORS MAY USE TYPE MC CABLE IN LEU) OF CONDUIT AND CONDUCTORS WERE ALLOWED BY LOCAL CODES AND THE NATIONAL ELECTRICAL SAFETY CODE. IF TYPE MC CABLE IS USED, CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR RESIZING ANY CIRCUITS SHOWN.

2.6 CO

- A DISPOSED CONDUIT SHALL BE SECURELY FASTENED TO WALL OR FLOOR. INTERNALS, UNLESS SPECIFIED OTHERWISE, AND HANGERS, SUPPORTS OR FASTENINGS SHALL BE PROVIDED AT EACH END AND AT EACH INTERMEDIATE JOINT. CONDUITS SHALL BE PROTECTED BY GUARDING, BRACKETING AND SHIELDING. CONDUITS MAY BE EXPOSED TO TWO VULNERABLE STRESSORS, BEAM CLAMPS, OR OTHER APPROVED DEVICES WITH SUITABLE PROTECTIVE SHIELDS FOR MOUNTING TO BUILDING STRUCTURE OR SPECIAL BRACKETS.
- HANGERS AND CLAMPS SHALL BE MADE OF DURABLE MATERIALS SUITABLE FOR THE APPLICATION INVOLVED. HANGER ASSEMBLIES SHALL BE PROTECTED BY GALVANIZING, OR OTHER SUITABLE PRESERVATION METHODS TO PREVENT CORROSION. THE REQUIRED STRENGTH OF THE HANGER AND CLAMP AND SIZE AND TYPE OF ANCHORS SHALL BE BASED ON THE WEIGHT OF THE HANGERS AND CABLES.
- CONDUITS SHALL BE PROTECTED BY GUARDING, BRACKETING, OR OTHER APPROVED DEVICES WITH SUITABLE PROTECTIVE SHIELDS FOR MOUNTING TO BUILDING STRUCTURE OR SPECIAL BRACKETS. ESPECIALLY WEIGHTED SWAYE SWITCH, STARTERS, OR CIRCUIT BREAKER IS SHOWN WAGUENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL. PROVIDE ALL SUPPORTS, BRACKET, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

DESCRIPTION

-  FLUORESCENT STRIP LIGHT FEATURE LETTER INDICATES FEATURE TYPE.
 SEE LIGHT FEATURE SCHEDULE FOR DESCRIPTION. HALF-SHADING INDICATES FEATURE TO BE PROVIDED WITH 90 MIN. BATTERY BACK-UP FOR TWO LAMPS.
 FLUORESCENT WALL MT. LIGHT FEATURE LETTER INDICATES FEATURE TYPE.
 SEE LIGHT FEATURE SCHEDULE FOR DESCRIPTION. HALF-SHADING INDICATES FEATURE TO BE PROVIDED WITH 90 MIN. BATTERY BACK-UP FOR TWO LAMPS.
 EMERGENCY LIGHT CEILING MOUNTED, DIRECTIONAL ARROW AS INDICATED. SHADING INDICATES FACE.
 EMERGENCY LIGHT WALL MOUNTED, DIRECTIONAL ARROW AS INDICATED. SHADING INDICATES FACE.
 WALL MOUNTED LIGHT FEATURE

POWER SYMBOLS

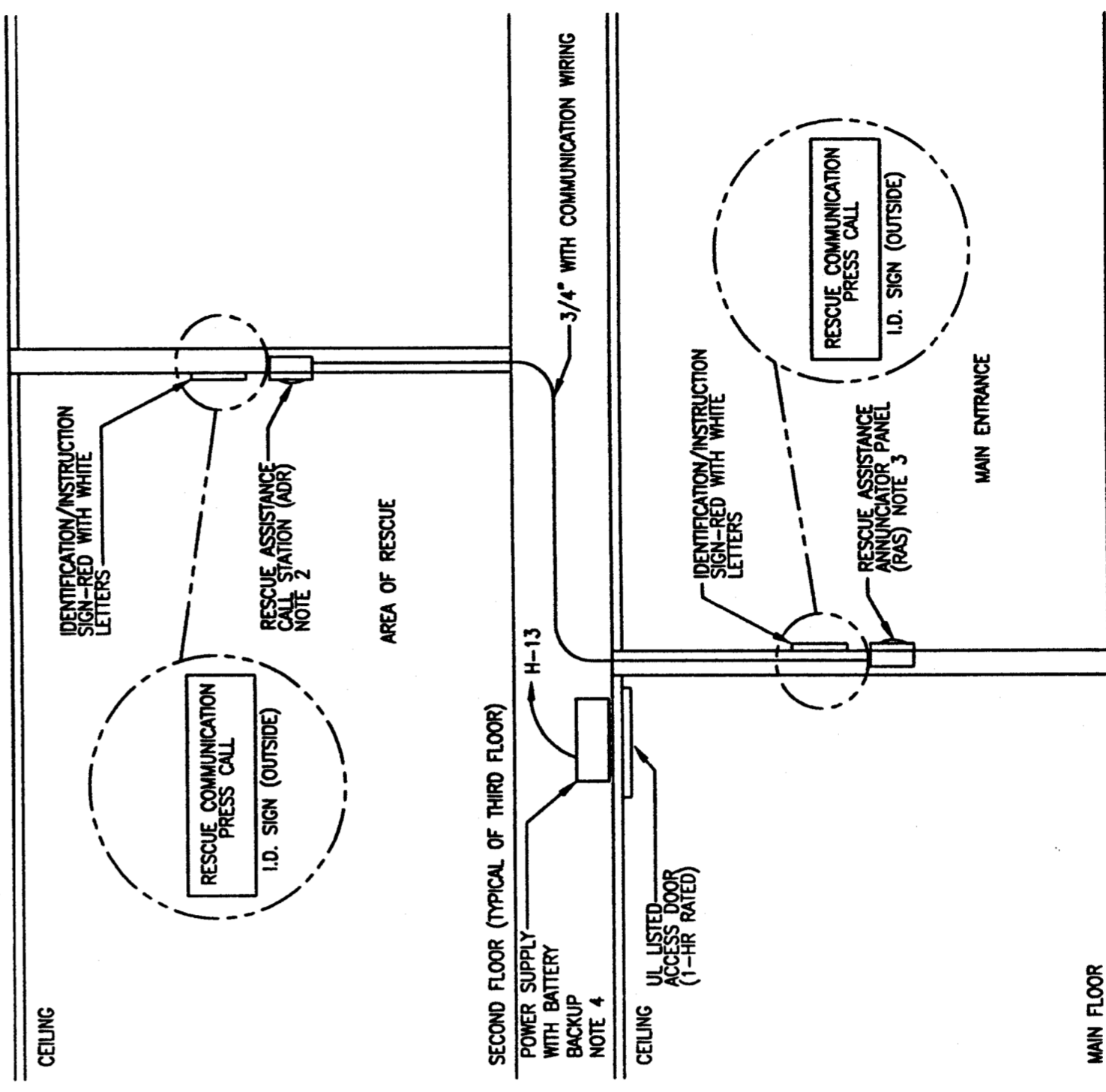
- | <u>SYMBOL</u> | <u>DESCRIPTION</u> |
|---|--|
| | WALL MOUNTED DUPLEX RECEPTACLE. "T" INDICATES MOUNTED ABOVE COUNTER-TOP. |
| | HEAVY DUTY DISCONNECT. SIZE AS INDICATED IN DRAWINGS. |

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| 30 | ASD | FIRE ALARM HORN/STROBE UNIT. NUMBER INDICATES CANDELA RATING. |
| P | P | FIRE ALARM PULL STATION |
| 30 | P | FIRE ALARM STROBE UNIT. NUMBER INDICATES CANDELA RATING. |
| 30 | ASD | AIR SAMPLING HVAC DUCT SMOKE DETECTOR |
| P | P | PHOTOELECTRIC SMOKE DETECTOR |
| 30 | ASD | FIRE ALARM CONTROL PANEL |
| 30 | ASD | FIRE ALARM SYSTEM ANNUNCIATOR |

AREA OF RESCUE CALL STATION

- RESCUE ASSISTANCE ANNUNCIATOR PANEL
SEE AREA OF RESCUE COMMUNICATION DETAIL



NOTES: INSTALLATION SHALL BE PER THE NORTH CAROLINA STATE BUILDING CODE, VOLUME 1-C-6.3.2., AND PER MANUFACTURE REQUIREMENTS.

- CALL STATION CORNEL MODEL #4201
RESISTANCE ANNUNCIATOR PANEL CORNEL MODEL# A4204
PROVIDE WITH CORNELL CS243, BATTERY BACK-UP POWER SUPPLY.
THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF AREA OF RESCUE
LOCATIONS, REFER TO THE ARCHITECTURAL DRAWINGS.
PROVIDE STAINLESS STEEL PLATES, AND BACK BOXES AS REQUIRED.
ALL COMPONENTS SHALL BE U.L. LISTED.
PROVIDE # OF ALL CALL STATIONS PER PLANS.
CONTRACTOR SHALL PROVIDE ALL COMPONENTS FOR A COMPLETE OPERATING SYSTEM.

SCALE: NOT TO SCALE

E-1 / SCALE: NOT TO SCALE

EDI!

Engineered Designs, Inc.
5540 Centerview Drive, Suite 315
Raleigh, North Carolina 27606
Office: 919.851.8481
Fax: 919.851.9703

DATE 11/16/2006



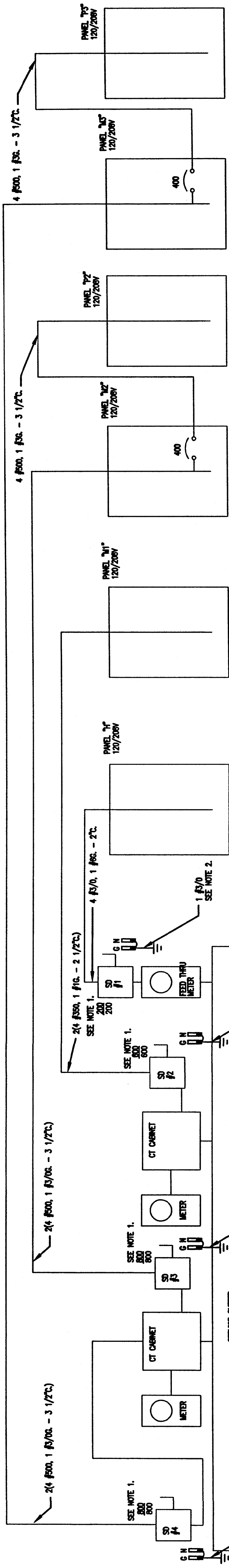
John C. Williams, AIA, P.A.
Architect
PO Box 1018
Hillsborough, NC 27278
919 732 6811

CT
THE GATEWAY CENTER
226 SOUTH CHURTON STREET
HILLSBOROUGH, NORTH CAROLINA

ELECTRICAL SPECIFICATIONS AND LEGEND

JOB NO.
77-08
SHEET NO.

E-1

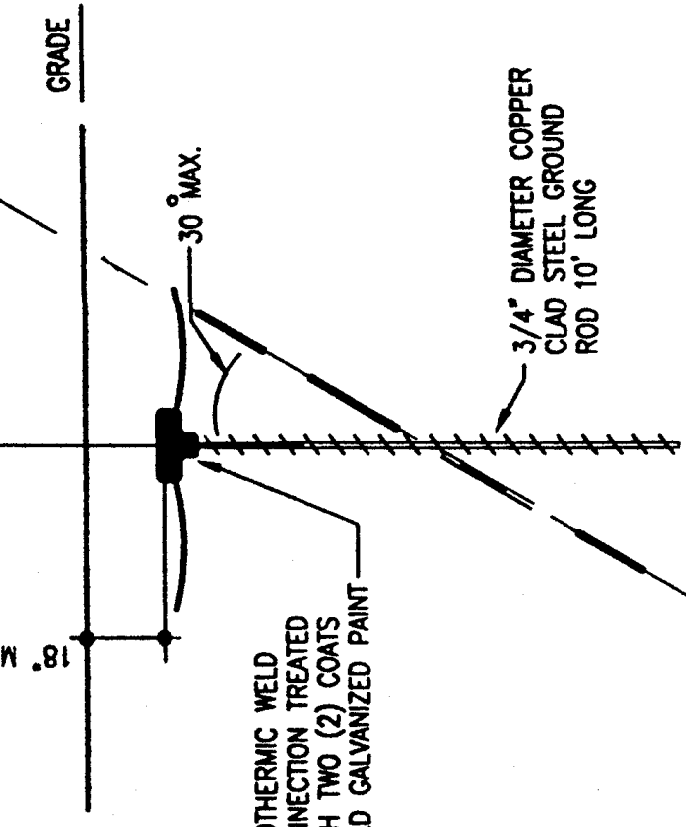


NOTES:

1. DISCONNECT SHALL BE SERVICE ENTRANCE RATED AND LABELLED AS "SERVICE DISCONNECT" AND BE LOCATED OUTSIDE THE BUILDING.
2. CONNECT SERVICE GROUND TO METER, WATER PIPE, BUILDING STEEL GROUND GRID, AND SERVICE NEUTRAL CONDUCTOR PER NEC 250. COORDINATE WITH POWER COMPANY.
3. INITIAL SERVICE GROUND RODS IN GRASSY AREA NEAREST BUILDING. SEE GROUND GRID DETAIL 2/E-1.
4. COORDINATE SERVICE VOLTAGE REQUIREMENTS AND SERVICE FEEDER CONNECTION WITH LOCAL POWER COMPANY.

1 RISER DIAGRAM
E-1
SCALE: NOT TO SCALE

PANEL "H"																										
LT	DESCRIPTION	LIGHT	RECP	MOTOR	HEAT	OTHER	C	EGG	N	W	CB	PHASE	CR	W	N	EGG	C	OTHER	HEAT	MOTOR	RECP	LIGHT	DESCRIPTION	QT		
1	ELEVATOR	--	--	11500	--	--	1 1/4	6	3	3	3	A	20	12	12	12	34"	--	--	--	--	180	24	ELEVATOR LIGHTS	8	
2	RECEP	--	--	11000	--	--	--	--	3	3	3	B	20	12	12	12	34"	--	--	--	--	--	--	8	RECEP	8
7	RECEP/TELES	--	--	--	--	34"	--	12	12	12	20	A	20	12	12	12	34"	--	--	--	--	--	--	895	LIGHTING	8
8	LIGHTING	354	--	--	--	34"	--	12	12	12	20	B	20	12	12	12	34"	--	--	--	--	--	--	350	RECEP/TELES	10
12	RECEP	--	--	--	--	34"	--	12	12	12	20	A	20	12	12	12	34"	--	--	--	--	--	--	350	RECEP/TELES	10
13	AREA OF RESCUE	--	--	--	--	500	--	34"	12	12	20	A	20	12	12	12	34"	--	--	--	--	--	--	1400	RECEP/TELES	14
15	AREA OF RESCUE	--	--	--	--	500	--	34"	12	12	20	B	20	12	12	12	34"	--	--	--	--	--	--	14	RECEP/TELES	14
17	15 PANEL	--	--	--	--	--	--	34"	12	12	20	B	20	12	12	12	34"	--	--	--	--	--	--	384	LIGHTING	18
18	17 HOT BOX	--	--	--	--	--	--	34"	12	12	20	C	20	12	12	12	34"	1000	--	--	--	--	--	18	EWG	18
19	HOT BOX	--	--	--	--	1000	--	34"	12	12	20	A	20	12	12	12	34"	1000	--	--	--	--	--	18	EWG	18
20	HOT BOX	--	--	--	--	1000	--	34"	12	12	20	B	20	12	12	12	34"	1000	--	--	--	--	--	18	EWG	18
21	HOT BOX	--	--	1000	--	--	--	34"	12	12	20	C	20	12	12	12	34"	1000	--	--	--	--	--	18	EWG	18
22	SPACE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32	LIGHTING	32	
23	SPACE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32	LIGHTING	32	
24	SPACE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32	LIGHTING	32	
TOTALS																										
PANEL NOTES:														LARGEST OF REC PANEL 22A-12 ON CONNECTED LOAD												
TOTALS														LARGEST OF REC PANEL 22A-12 ON CONNECTED LOAD												
TOTALS														LARGEST OF REC PANEL 22A-12 ON CONNECTED LOAD												
TOTALS														LARGEST OF REC PANEL 22A-12 ON CONNECTED LOAD												
TOTALS														LARGEST OF REC PANEL 22A-12 ON CONNECTED LOAD												

[illegible][illegible]

2 TYPICAL GROUND ROD DETAIL
E-2
SCALE: NOT TO SCALE

[illegible]

P / E EQUIPMENT COORDINATION SCHEDULE							
EQUIPMENT DESIGNATION	EQUIPMENT DESCRIPTION	EQUIPMENT FURN. BY	VOLUME / PHASE	NW	DISCONNECT FURN. BY	STARTER FURN. BY	REMARKS
PUMP-1	ELEVATOR SUMP PUMP	PC	120/1	---	0.75	EC	FLUID SWITCH
EW-1	ELECTRIC WATER HEATER	PC	120/1	1.5	---	EC	W/EQUIP
EW-2	ELECTRIC WATER HEATER	PC	120/1	2.5	---	EC	W/EQUIP
EW-3	ELECTRIC WATER COOLER	PC	120/1	---	---	EC	W/EQUIP
EW-4	ELECTRIC WATER COOLER	PC	120/1	---	---	EC	W/EQUIP

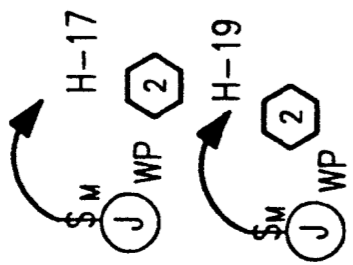
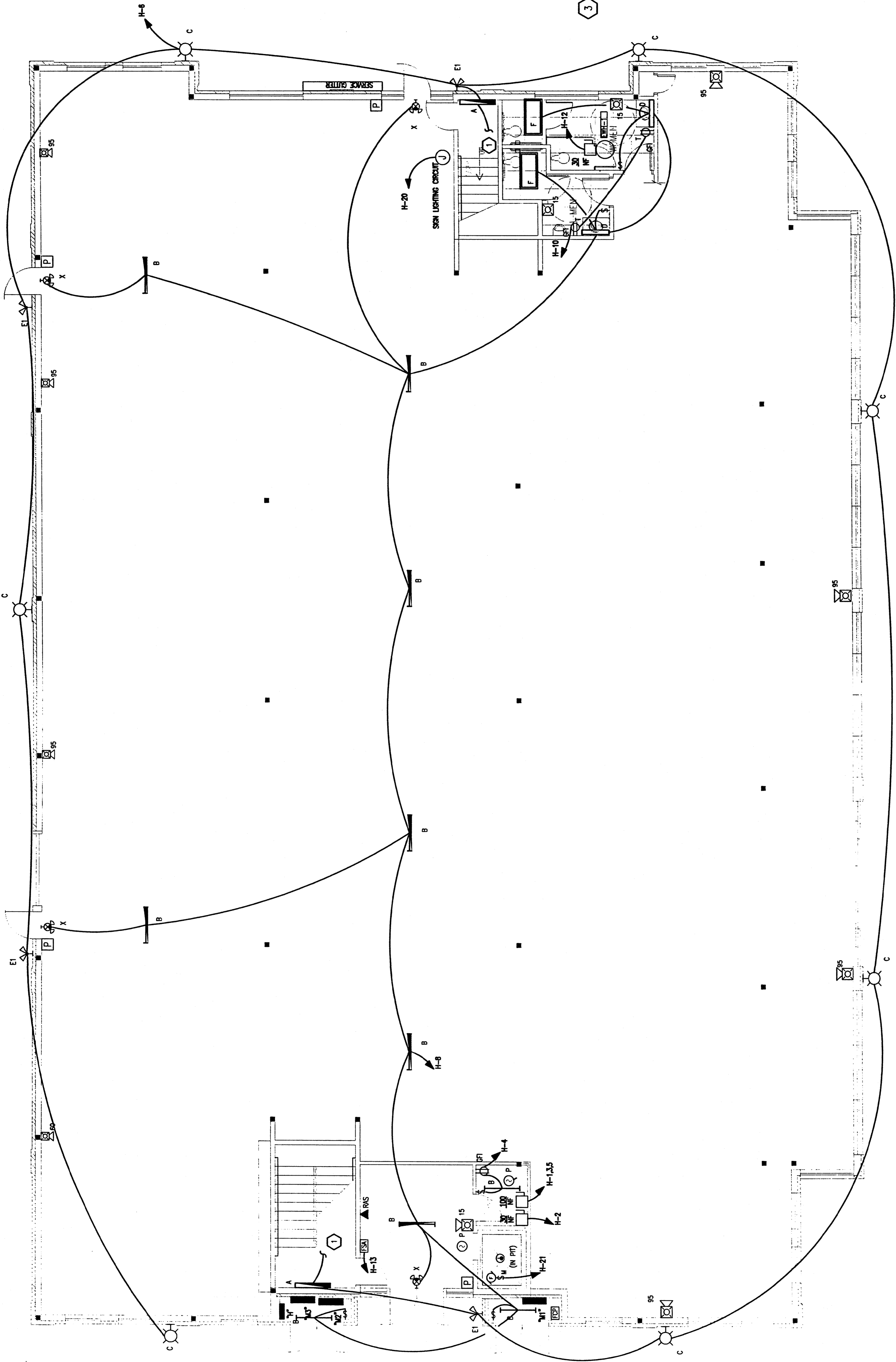
MECHANICAL / ELECTRICAL EQUIPMENT COORDINATION SCHEDULE												
EQUIPMENT DESIGNATION	EQUIPMENT DESCRIPTION	EQUIPMENT MFG. BT	VOLUME/ PHASE	KW	HP	MCA	MOP	DISCONNECT FURN. BT	STARTER FURN. BT	EXIST/NEW RELOCATED	CONTROLS	REMARKS
RTU-2	ROOFTOP UNIT	M.C.	208/3	-	15	191	225	E.C.	W/ EQUIP	N	VFD	-
RTU-3	ROOFTOP UNIT	M.C.	208/3	-	20	218.5	250	E.C.	W/ EQUIP	N	VFD	-
VW-2-1	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-2	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-3	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-4	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-5	VARIABLE AIR VOLUME UNIT	M.C.	208/1	7	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-6	VARIABLE AIR VOLUME UNIT	M.C.	208/1	7	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-1	VARIABLE AIR VOLUME UNIT	M.C.	208/1	10	3/4	-	-	E.C.	N/A	N	TSTAT	-
VW-3-2	VARIABLE AIR VOLUME UNIT	M.C.	208/1	10	3/4	-	-	E.C.	N/A	N	TSTAT	-
VW-3-3	VARIABLE AIR VOLUME UNIT	M.C.	208/1	10	3/4	-	-	E.C.	N/A	N	TSTAT	-
VW-3-4	VARIABLE AIR VOLUME UNIT	M.C.	208/1	10	3/4	-	-	E.C.	N/A	N	TSTAT	-
VW-3-5	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-6	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-7	VARIABLE AIR VOLUME UNIT	M.C.	208/1	6	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-8	VARIABLE AIR VOLUME UNIT	M.C.	208/1	6	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-9	VARIABLE AIR VOLUME UNIT	M.C.	208/1	6	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-10	VARIABLE AIR VOLUME UNIT	M.C.	208/1	5	1/2	-	-	E.C.	N/A	N	TSTAT	-
EF-1	EXHAUST FAN	M.C.	208/1	---	1/4	---	---	E.C.	E.C.	N	CONTINUOUS	-
EF-2	EXHAUST FAN	M.C.	115/1	---	128 (WATS)	---	---	E.C.	E.C.	N	SWITCH W/ LIGHTS	-
EF-3	EXHAUST FAN	M.C.	115/1	---	113 (WATS)	---	---	E.C.	E.C.	N	SWITCH W/ LIGHTS	-

[illegible]

PANEL "M3"																										
CT	DESCRIPTION	LIGHT	RECP	MOTOR	HEAT	OTHER	C	EGC	N	W	PHASE	GT	DESCRIPTION	LIGHT	RECP	MOTOR	HEAT	OTHER	C	EGC	N	W	PHASE	GT		
1	SPACE	--	--	--	--	--	--	--	--	--	A	1	SPACE	--	--	--	--	--	--	--	--	--	A	1		
2	SPACE	--	--	--	--	--	--	--	--	--	B	2	SPACE	--	--	--	--	--	--	--	--	--	B	2		
3	SPACE	--	--	--	--	--	--	--	--	--	C	3	SPACE	--	--	--	--	--	--	--	--	--	C	3		
4	SPACE	--	--	--	--	--	--	--	--	--	A	4	SPACE	--	--	--	--	--	--	--	--	--	A	4		
5	SPACE	--	--	--	--	--	--	--	--	--	B	5	SPACE	--	--	--	--	--	--	--	--	--	B	5		
6	SPACE	--	--	--	--	--	--	--	--	--	C	6	SPACE	--	--	--	--	--	--	--	--	--	C	6		
7	SPACE	--	--	--	--	--	--	--	--	--	A	7	SPACE	--	--	--	--	--	--	--	--	--	A	7		
8	SPACE	--	--	--	--	--	--	--	--	--	B	8	SPACE	--	--	--	--	--	--	--	--	--	B	8		
9	SPACE	--	--	--	--	--	--	--	--	--	C	9	SPACE	--	--	--	--	--	--	--	--	--	C	9		
10	SPACE	--	--	--	--	--	--	--	--	--	A	10	SPACE	--	--	--	--	--	--	--	--	--	A	10		
11	SPACE	--	--	--	--	--	--	--	--	--	B	11	SPACE	--	--	--	--	--	--	--	--	--	B	11		
12	SPACE	--	--	--	--	--	--	--	--	--	C	12	SPACE	--	--	--	--	--	--	--	--	--	C	12		
13	SPACE	--	--	--	--	--	--	--	--	--	A	13	SPACE	--	--	--	--	--	--	--	--	--	A	13		
14	SPACE	--	--	--	--	--	--	--	--	--	B	14	SPACE	--	--	--	--	--	--	--	--	--	B	14		
15	SPACE	--	--	--	--	--	--	--	--	--	C	15	SPACE	--	--	--	--	--	--	--	--	--	C	15		
16	SPACE	--	--	--	--	--	--	--	--	--	A	16	SPACE	--	--	--	--	--	--	--	--	--	A	16		
17	SPACE	--	--	--	--	--	--	--	--	--	B	17	SPACE	--	--	--	--	--	--	--	--	--	B	17		
18	SPACE	--	--	--	--	--	--	--	--	--	C	18	SPACE	--	--	--	--	--	--	--	--	--	C	18		
19	SPACE	--	--	--	--	--	--	--	--	--	A	19	SPACE	--	--	--	--	--	--	--	--	--	A	19		
20	SPACE	--	--	--	--	--	--	--	--	--	B	20	SPACE	--	--	--	--	--	--	--	--	--	B	20		
21	SPACE	--	--	--	--	--	--	--	--	--	C	21	SPACE	--	--	--	--	--	--	--	--	--	C	21		
22	SPACE	--	--	--	--	--	--	--	--	--	A	22	SPACE	--	--	--	--	--	--	--	--	--	A	22		
23	SPACE	--	--	--	--	--	--	--	--	--	B	23	SPACE	--	--	--	--	--	--	--	--	--	B	23		
24	SPACE	--	--	--	--	--	--	--	--	--	C	24	SPACE	--	--	--	--	--	--	--	--	--	C	24		
25	SPACE	--	--	--	--	--	--	--	--	--	A	25	SPACE	--	--	--	--	--	--	--	--	--	A	25		
26	SPACE	--	--	--	--	--	--	--	--	--	B	26	SPACE	--	--	--	--	--	--	--	--	--	B	26		
27	SPACE	--	--	--	--	--	--	--	--	--	C	27	SPACE	--	--	--	--	--	--	--	--	--	C	27		
28	SPACE	--	--	--	--	--	--	--	--	--	A	28	SPACE	--	--	--	--	--	--	--	--	--	A	28		
29	SPACE	--	--	--	--	--	--	--	--	--	B	29	SPACE	--	--	--	--	--	--	--	--	--	B	29		
30	SPACE	--	--	--	--	--	--	--	--	--	C	30	SPACE	--	--	--	--	--	--	--	--	--	C	30		
31	SPACE	--	--	--	--	--	--	--	--	--	A	31	SPACE	--	--	--	--	--	--	--	--	--	A	31		
32	SPACE	--	--	--	--	--	--	--	--	--	B	32	SPACE	--	--	--	--	--	--	--	--	--	B	32		
33	SPACE	--	--	--	--	--	--	--	--	--	C	33	SPACE	--	--	--	--	--	--	--	--	--	C	33		
34	SPACE	--	--	--	--	--	--	--	--	--	A	34	SPACE	--	--	--	--	--	--	--	--	--	A	34		
35	SPACE	--	--	--	--	--	--	--	--	--	B	35	SPACE	--	--	--	--	--	--	--	--	--	B	35		
36	SPACE	--	--	--	--	--	--	--	--	--	C	36	SPACE	--	--	--	--	--	--	--	--	--	C	36		
37	PANEL "P"	0	0	6332	35000	0	SEE INHER DIAGRAM	400	A	200	220	4	2 1/4"	--	--	--	--	--	--	--	--	--	--	210-3		
38	SPACE	0	0	4622	20000	0								--	--	--	--	--	--	--	--	--	21000			
39	SPACE	0	0	0	0	0								--	--	--	--	--	--	--	--	--	21000			
40	SPACE	0	0	0	4622	20000	0							--	--	--	--	--	--	--	--	--	21000			
41	SPACE	0	0	0	0	0								--	--	--	--	--	--	--	--	--	21000			
TOTALS																										
VOLTAGE		MILKLOD										MILKLOD										MILKLOD				
PHASE		MILKLOD										MILKLOD										MILKLOD				
WATTS		WATTS										WATTS										WATTS				
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WATTS		WATTS										WATTS										W				

MECHANICAL / ELECTRICAL EQUIPMENT COORDINATION SCHEDULE												
EQUIPMENT DESIGNATION	EQUIPMENT DESCRIPTION	EQUIPMENT MFG. BT	VOLUME/ PHASE	KW	HP	MCA	MOP	DISCONNECT FURN. BT	STARTER FURN. BT	EXIST./NEW RELOCATED	CONTROLS	REMARKS
RTU-2	ROOFTOP UNIT	M.C.	208/3	-	15	191	225	E.C.	W/ EQUIP	N	VFD	-
RTU-3	ROOFTOP UNIT	M.C.	208/3	-	20	218.5	250	E.C.	W/ EQUIP	N	VFD	-
VW-2-1	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-2	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-3	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-4	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-5	VARIABLE AIR VOLUME UNIT	M.C.	208/1	7	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-2-6	VARIABLE AIR VOLUME UNIT	M.C.	208/1	7	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-1	VARIABLE AIR VOLUME UNIT	M.C.	208/1	10	3/4	-	-	E.C.	N/A	N	TSTAT	-
VW-3-2	VARIABLE AIR VOLUME UNIT	M.C.	208/1	10	3/4	-	-	E.C.	N/A	N	TSTAT	-
VW-3-3	VARIABLE AIR VOLUME UNIT	M.C.	208/1	10	3/4	-	-	E.C.	N/A	N	TSTAT	-
VW-3-4	VARIABLE AIR VOLUME UNIT	M.C.	208/1	10	3/4	-	-	E.C.	N/A	N	TSTAT	-
VW-3-5	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-6	VARIABLE AIR VOLUME UNIT	M.C.	208/1	8	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-7	VARIABLE AIR VOLUME UNIT	M.C.	208/1	6	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-8	VARIABLE AIR VOLUME UNIT	M.C.	208/1	6	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-9	VARIABLE AIR VOLUME UNIT	M.C.	208/1	6	1/2	-	-	E.C.	N/A	N	TSTAT	-
VW-3-10	VARIABLE AIR VOLUME UNIT	M.C.	208/1	5	1/2	-	-	E.C.	N/A	N	TSTAT	-
EF-1	EXHAUST FAN	M.C.	208/1	---	1/4	---	---	E.C.	E.C.	N	CONTINUOUS	-
EF-2	EXHAUST FAN	M.C.	115/1	---	128 (WATS)	---	---	E.C.	E.C.	N	SWITCH W/ LIGHTS	-
EF-3	EXHAUST FAN	M.C.	115/1	---	113 (WATS)	---	---	E.C.	E.C.	N	SWITCH W/ LIGHTS	-

1. THE DRAWING IS THE PROPERTY OF ENGINEERED DESIGNS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED THEREON.



1 FIRST FLOOR ELECTRICAL PLAN
SCALE: 3/32"=1'-0"

NOTES KEYED TO PLAN

1. CONNECT TO STAIRWELL LIGHT FIXTURE ON THE SECOND FLOOR
2. CONNECTION FOR HOT BOX. VERIFY LOCATION WITH GC PRIOR TO INSTALLATION.
3. CONNECTION FOR GRANITEWATER PUMP AND IRRIGATION PUMP. VERIFY LOCATION AND REQUIREMENTS WITH GC PRIOR TO INSTALLATION. INCLUDE AN ALLOWANCE OF 1,000.00 FOR THIS WORK.

FIRE-RATING COORDINATION NOTE

REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF FIRE-RATED ASSEMBLIES. VERIFY FIRE-RATING IN ACCORDANCE UL FOR ASSEMBLY, AS NECESSARY TO MAINTAIN FIRE-RATING.

JOB NO.
77-06
SHEET NO.

ELECTRICAL
FIRST FLOOR

PROJECT

THE GATEWAY CENTER
228 SOUTH CHURTON STREET
HILLSBOROUGH, NORTH CAROLINA

John C. Williams, AIA, PA
Architect
PO Box 1018
Hillsborough, NC 27278
919 732 6811



DATE
11/16/2006

Engineered Designs, Inc.
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Office: 919.851.8481
Fax: 919.851.9703

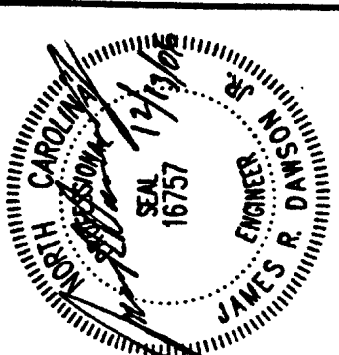
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12/13/06
INSPECTOR REVIEW

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DATE
11/16/2008



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Architect
P.O. Box 1018
Hillsborough, NC 27278
919.732.6811

THE GATEWAY CENTER
228 SOUTH CHURTON STREET
HILLSBOROUGH, NORTH CAROLINA

PROJECT
ELECTRICAL
SECOND FLOOR

JOB NO.
77-06
SHEET NO.

E-4

FIRE-RATING COORDINATION NOTE
REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF
FIRE-RATED ASSEMBLIES.
PROVIDE FIRE-PROTECTION IN ACCORDANCE ILL FOR ASSEMBLY, AS
NECESSARY TO MAINTAIN FIRE-RATING.

2 FIRE ALARM/ELEVATOR RECALL RISER DIAGRAM
SCALE: NOT TO SCALE

F.A. DEVICE MOUNTING HEIGHTS

FIRE ALARM PULL STATION 44" AFF
FIRE ALARM HORNS/STROBE UNIT 80" AFF
FIRE ALARM SMOKE DETECTOR 80" AFF
NOTE: DIMENSIONS ARE TO BOTTOM OF DEVICE UNLESS NOTED OTHERWISE

3 ELEVATOR SHUTDOWN CIRCUIT
SCALE: NTS

- NOTES:
1. PROVIDE ELEVATOR RECALL FIRE ALARM CONTROL PANEL, EDWARDS SYSTEMS TECHNOLOGY QUICKSTART SERIES MODEL JRG-1 OR APPROVED EQUAL. PROVIDE ALL COMPONENTS AS INDICATED ON RISER DIAGRAM AND WIRING AS REQUIRED.
 2. PROVIDE CONTROL WIRING TO THE ELEVATOR CONTROLLER. COORDINATION SHALL BE PER NFPA 70A AND THE M.E.C.
 3. PROVIDE FIRE ALARM HORNS/STROBE UNITS AS REQUIRED. COORDINATION SHALL BE PER NFPA 70A AND THE M.E.C.
 4. PROVIDE FIRE ALARM SMOKE DETECTORS AS REQUIRED. COORDINATION SHALL BE PER NFPA 70A AND THE M.E.C.
 5. PROVIDE FIRE ALARM PULL STATIONS AS REQUIRED. COORDINATION SHALL BE PER NFPA 70A AND THE M.E.C.
 6. PROVIDE BATTERY BACK-UP AS REQUIRED BY NFPA 72.
 7. PROVIDE A MINIMUM OF TWO DEDICATED PHONE LINES TO THE FIRE ALARM CONTROL PANEL DUCT AND CONNECT/PROGRAM PER NFPA 72.

1 SECOND FLOOR ELECTRICAL PLAN
SCALE: 1/32" = 1'-0"

NOTES KEYED TO PLAN

1. CONNECT TO SHARPELL LIGHT FIXTURE ON THE FIRST FLOOR
2. CONNECT TO SHARPELL LIGHT FIXTURE ON THE THIRD FLOOR

PANEL "P2"																																			
CT	DESCRIPTION	LIGHT	REC'D	MOTOR	HEAT	OTHER	C	ENG	W	N	ENG	C	OTHER	HEAT	MOTOR	REC'D	LIGHT	CT	DESCRIPTION	LIGHT	REC'D	MOTOR	HEAT	OTHER	C	ENG	W	N	ENG	C	OTHER	HEAT	MOTOR	REC'D	LIGHT
1	WAV-1																	1	WAV-1																
2	WAV-2																	2	WAV-2																
3	WAV-3																	3	WAV-3																
4	WAV-4																	4	WAV-4																
5	WAV-5																	5	WAV-5																
6	WAV-6																	6	WAV-6																
7	WAV-7																	7	WAV-7																
8	WAV-8																	8	WAV-8																
9	WAV-9																	9	WAV-9																
10	WAV-10																	10	WAV-10																
11	WAV-11																	11	WAV-11																
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36	WAV-36																	36	WAV-36																
37	WAV-37																	37	WAV-37																
38	WAV-38																	38	WAV-38																
39	WAV-39																	39	WAV-39																
40	WAV-40																	40	WAV-40																
41	WAV-41																	41	WAV-41																

FIRE-RATING COORDINATION NOTE

REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF
FIRE-RATED ASSEMBLIES.
PROVIDE FIRE-PROTECTION IN ACCORDANCE WITH UL FOR ASSEMBLY, AS
NECESSARY TO MAINTAIN FIRE-RATING.

FIRE ALARM SYSTEM NOTES

1. ALL STROBES SHALL BE SYNCHRONIZED PER NFPA 72.
2. NEW AHU DUCT DETECTORS SHALL BE PURCHASED BY THE ELECTRICAL CONTRACTOR
AND INSTALLED BY THE MECHANICAL CONTRACTOR. DUCT DETECTORS SHALL BE FULLY
COMPLIANT WITH THE UL LISTING FOR DUCT DETECTORS. THE ELECTRICAL CONTRACTOR
SHALL PROVIDE THE FIRE ALARM CONTROL PANEL AND THE MECHANICAL CONTRACTOR
SHALL PROVIDE THE DUCT DETECTORS. THE ELECTRICAL CONTRACTOR SHALL
COORDINATE WITH THE MECHANICAL CONTRACTOR TO SHUTDOWN THE HVAC UNIT(S) IN THE EVENT OF AN ALARM
CONDITION VIA THE FIRE ALARM CONTROL PANEL.

NOTES KEYS TO PLAN
1 CONNECT TO STAIRWELL LIGHTING FIXTURE ON THE SECOND FLOOR.

1 THIRD FLOOR
SCALE: 1/32"=1'-0"

PANEL "P3"											
LT	DESCRIPTION	UNIT	RECP	MOTOR	HEAT	OTHER	C	EGC	N	W	CB
1	WAV-3-1	80	---	---	---	---	---	---	---	---	---
2	WAV-3-2	80	---	---	---	---	---	---	---	---	---
3	WAV-3-3	80	---	---	---	---	---	---	---	---	---
4	WAV-3-4	80	---	---	---	---	---	---	---	---	---
5	WAV-3-5	80	---	---	---	---	---	---	---	---	---
6	WAV-3-6	80	---	---	---	---	---	---	---	---	---
7	WAV-3-7	80	---	---	---	---	---	---	---	---	---
8	WAV-3-8	80	---	---	---	---	---	---	---	---	---
9	WAV-3-9	80	---	---	---	---	---	---	---	---	---
10	WAV-3-10	80	---	---	---	---	---	---	---	---	---
11	WAV-3-11	80	---	---	---	---	---	---	---	---	---
12	WAV-3-12	80	---	---	---	---	---	---	---	---	---
13	WAV-3-13	80	---	---	---	---	---	---	---	---	---
14	WAV-3-14	80	---	---	---	---	---	---	---	---	---
15	WAV-3-15	80	---	---	---	---	---	---	---	---	---
16	WAV-3-16	80	---	---	---	---	---	---	---	---	---
17	WAV-3-17	80	---	---	---	---	---	---	---	---	---
18	WAV-3-18	80	---	---	---	---	---	---	---	---	---
19	WAV-3-19	80	---	---	---	---	---	---	---	---	---
20	WAV-3-20	80	---	---	---	---	---	---	---	---	---
21	WAV-3-21	80	---	---	---	---	---	---	---	---	---
22	WAV-3-22	80	---	---	---	---	---	---	---	---	---
23	WAV-3-23	80	---	---	---	---	---	---	---	---	---
24	WAV-3-24	80	---	---	---	---	---	---	---	---	---
25	WAV-3-25	80	---	---	---	---	---	---	---	---	---
26	WAV-3-26	80	---	---	---	---	---	---	---	---	---
27	WAV-3-27	80	---	---	---	---	---	---	---	---	---
28	WAV-3-28	80	---	---	---	---	---	---	---	---	---
29	WAV-3-29	80	---	---	---	---	---	---	---	---	---
30	WAV-3-30	80	---	---	---	---	---	---	---	---	---
31	WAV-3-31	80	---	---	---	---	---	---	---	---	---
32	WAV-3-32	80	---	---	---	---	---	---	---	---	---
33	WAV-3-33	80	---	---	---	---	---	---	---	---	---
34	WAV-3-34	80	---	---	---	---	---	---	---	---	---
35	WAV-3-35	80	---	---	---	---	---	---	---	---	---
36	WAV-3-36	80	---	---	---	---	---	---	---	---	---
37	WAV-3-37	80	---	---	---	---	---	---	---	---	---
38	WAV-3-38	80	---	---	---	---	---	---	---	---	---
39	WAV-3-39	80	---	---	---	---	---	---	---	---	---
40	WAV-3-40	80	---	---	---	---	---	---	---	---	---
41	WAV-3-41	80	---	---	---	---	---	---	---	---	---
42	WAV-3-42	80	---	---	---	---	---	---	---	---	---
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