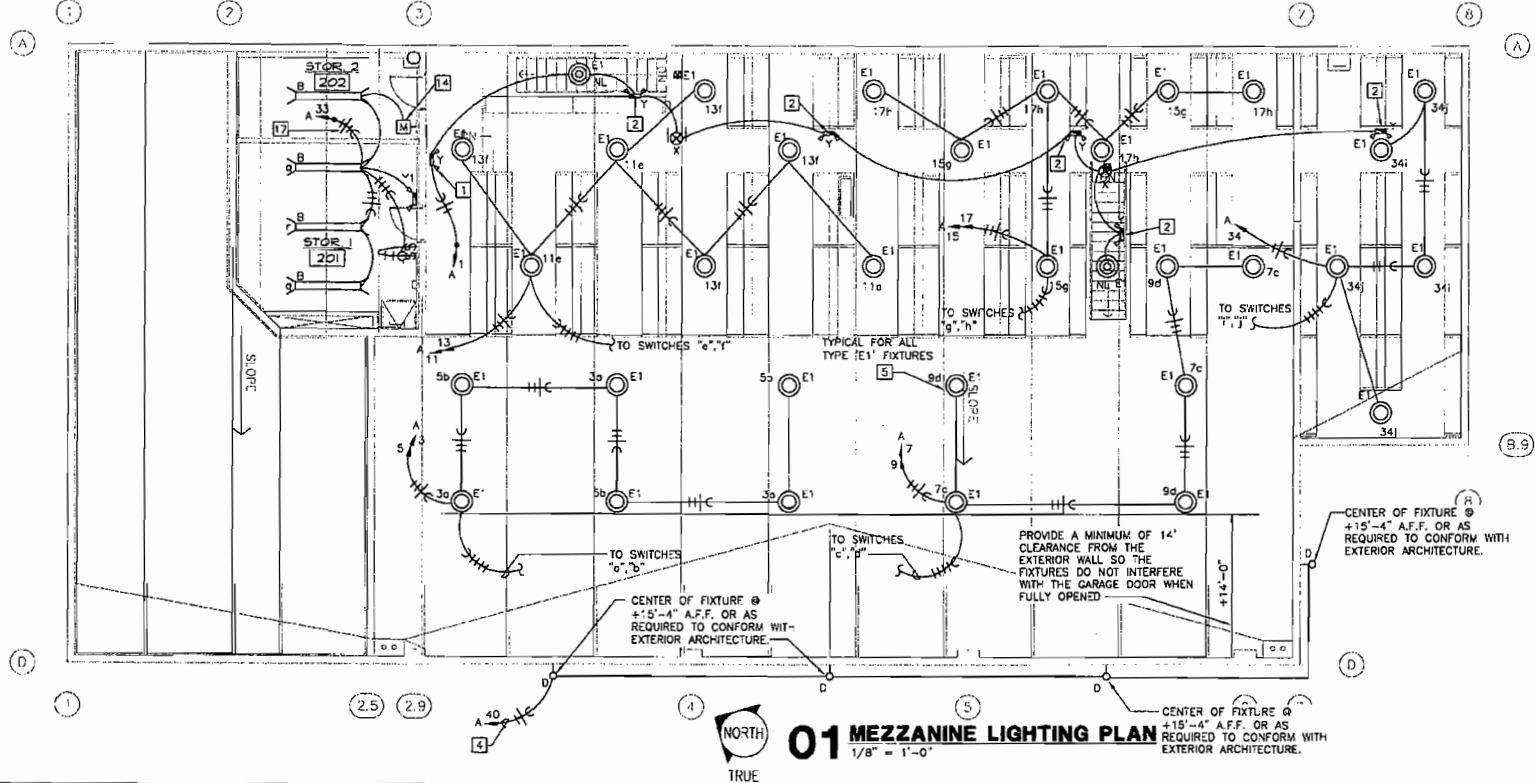


01 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"


ELECTRICAL KEYED NOTES

- 1 EMERGENCY FIXTURE WALL MOUNTED 9' ABOVE FLOOR.
- 2 MOUNT EMERGENCY LIGHT FIXTURE AS HIGH AS POSSIBLE ON SIDE OF TIRE RACK.
- 3 FOR SIGN, COORDINATE LOCATION WITH SIGN CONTRACTOR.
- 4 ROUTE CIRCUIT THROUGH CONTACTOR. REFER TO 'PHOTOCELL WIRING DIAGRAM' ON LIGHTING DETAILS SHEET. FOR ALL SIGN CIRCUITS - DO NOT COMBINE OR SHARE NEUTRALS WITH OTHER CIRCUITS.
- 5 LIGHTS ARE TO BE MOUNTED AS HIGH AS POSSIBLE TO THE UNDERSIDE OF THE CORRUGATED METAL DECK, BETWEEN STEEL BAR JOISTS. THE LIGHTS WILL ALSO BE CENTERED BETWEEN THE TIRE STORAGE RACKS. COORDINATE EXACT LOCATION WITH DISCOUNT TIRE CONSTRUCTION MANAGER. SEE DETAIL D3 THIS SHEET.
- 6 FOUR GANG WALL BOX FOR SWITCHES a THRU d. COORDINATE EXACT MOUNTING HEIGHT WITH DISCOUNT TIRE CONSTRUCTION MANAGER.
- 7 SIX GANG WALL BOX FOR SWITCHES e THRU h. COORDINATE EXACT MOUNTING HEIGHT WITH DISCOUNT TIRE CONSTRUCTION MANAGER.
- 8 FOUR GANG WALL BOX FOR SWITCHES k THRU n. COORDINATE EXACT MOUNTING HEIGHT WITH DISCOUNT TIRE CONSTRUCTION MANAGER.
- 9 EXTEND TO CEILING MOUNTED EXHAUST FAN. SEE SHEET E-2 FOR MORE INFORMATION.
- 10 REFER TO 'SWITCHBANK DETAIL' ON LIGHTING DETAILS SHEET. FOR SWITCHES o THRU r. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH DISCOUNT TIRE CONSTRUCTION MANAGER.
- 11 LIGHTING CONTACTORS TO BE MOUNTED ABOVE ELECTRICAL PANEL "A" ABOVE CEILING.
- 12 PHOTOCELL MOUNTED ON ROOF, FACING NORTH. SEE 'PHOTOCELL WIRING DIAGRAM' ON LIGHTING DETAILS SHEET.
- 13 PHOTOCELL OVERRIDE SWITCH MOUNTED ABOVE LIGHTING SWITCHBANK.
- 14 WALL MOUNTED MOTION SENSOR WAITSTOPPER #WS-200 WITH 30 MINUTES DURATION.
- 15 REFER TO LIGHTING DETAILS SHEET FOR 'PENDANT FIXTURE "P" AND PADDLE FAN MOUNTING DETAIL'.
- 16 TIMECLOCK MANUAL LIGHTING OVERRIDE SWITCH (TORK #AS02H). REFER TO TIME CLOCK WIRING DIAGRAM ON LIGHTING DETAILS SHEET FOR MORE INFORMATION.
- 17 HOMERUN CIRCUITS THROUGH CONTACTOR AS SHOWN ON 'TIME CLOCK WIRING DIAGRAM' ON LIGHTING DETAILS SHEET. EXIT AND EMERGENCY LIGHTS SHALL BE UNSWITCHED AND REMAIN CONNECTED CONTINUOUSLY BY BYPASSING THE ALL CONTACTOR CONTROLS.




01 MEZZANINE LIGHTING PLAN
1/8" = 1'-0"

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6120 WADE HAMPTON BLVD.
GREER, SC

JOB NUMBER:
01200703.23

PROJECT MANAGER:
RVM

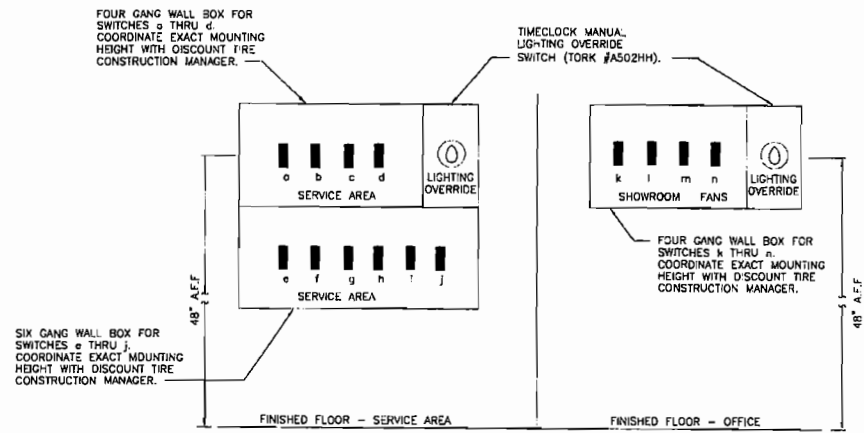
DRAWN BY:
WDA

SHEET TITLE:
FIRST AND MEZZANINE LIGHTING FLOOR PLANS

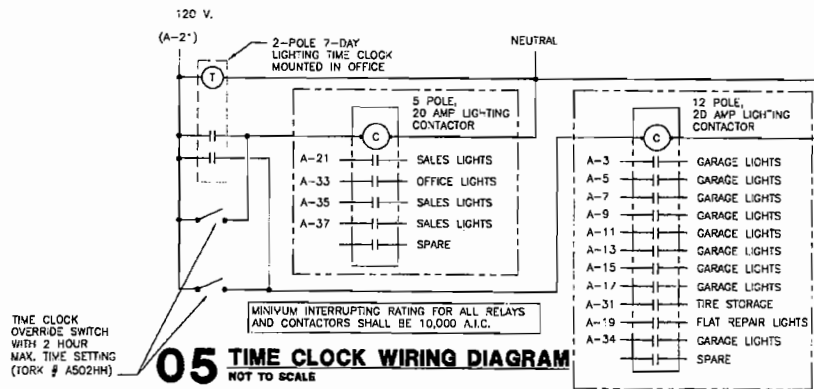
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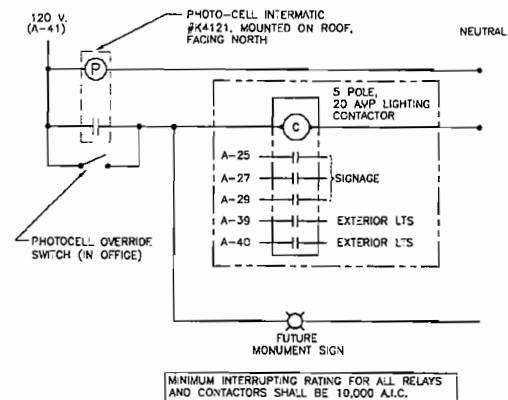
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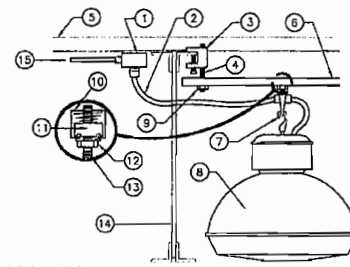
04 SWITCHBANK DETAIL
NOT TO SCALE



05 TIME CLOCK WIRING DIAGRAM
NOT TO SCALE

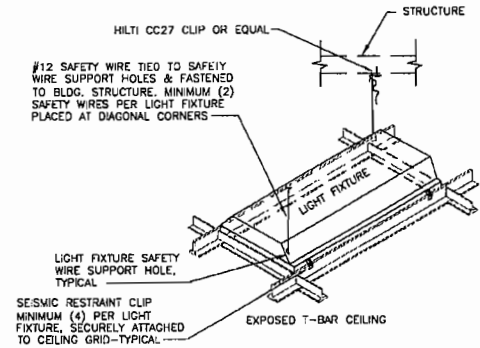


06 PHOTOCELL WIRING DIAGRAM
NOT TO SCALE



- NOTE LEGEND**
1. PROVIDE J-BOX W/ NEMA LS-2DR RECEPTACLE
 2. MANUFACTURER SUPPLIED CORD & PLUG (LS-2DP)
 3. ALL THREAD TYPE CLAMP
 4. 1/4" ALL-THREAD
 5. ROOF STRUCTURE
 6. UNISTRUT CHANNEL
 7. FIXTURE HANGER
 8. LIGHT FIXTURE & BALLAST
 9. NUT AND WASHER
 10. UNISTRUT - 12 GAUGE (1.5" X 1.5")
 11. SPRING NUT
 12. NUT AND WASHER
 13. THREADED ROD TO FIXTURE BRACKET
 14. STEEL JOIST
 15. CONDUIT RACEWAY

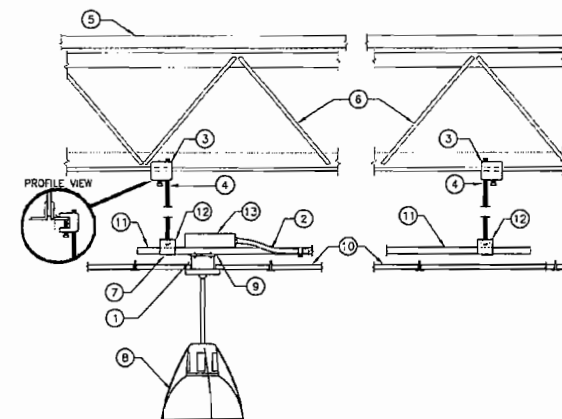
02 HI/LO BAY FIXTURE MOUNTING DETAIL
NOT TO SCALE



- NOTE:**
ALL WIRES ARE TO BE TAUT WITH A MINIMUM OF 3 TIGHT TURNS AROUND SELF - TYPICAL

01 RECESSED LIGHTING FIXTURE SUPPORT DETAIL
NOT TO SCALE


NOTE: FIXTURE INSTALLATION TO COMPLY WITH ASTM C636-96 AND 1997 U.B.C. SECTION 25.213.



- LEGEND NOTES:**
1. PROVIDE J-BOX PROPERLY RATED FOR FIXTURE WT.
 2. TYPE VC CABLE MAXIMUM OF 6" SLACK OR USE UNISTRUT CHANNEL WITH RECD UL LISTED CLOSURES AS RACEWAY
 3. ALL THREAD TYPE CLAMP
 4. 3/8" ALL-THREAD
 5. ROOF STRUCTURE
 6. JOIST
 7. NUT AND WASHER
 8. TYPE "P" FIXT. OR PADDLE FAN
 9. J-BOX CONNECTOR FITTING
 10. LAY-IN GRID CEILING
 11. UNISTRUT - 12 GAUGE (1.5" X 1.5") FOLLOW MFR GUIDELINES FOR LOADING AND FOR SPACING OF SUPPORTS.
 12. CHANNEL HANGER
 13. REMOVE BALLAST W/ WIRING CHAMBER

03 PENDANT FIXTURE 'P' AND PADDLE FAN MOUNTING DETAIL
NOT TO SCALE

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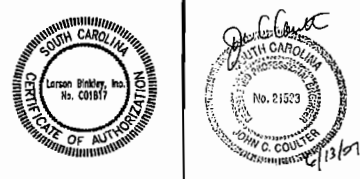


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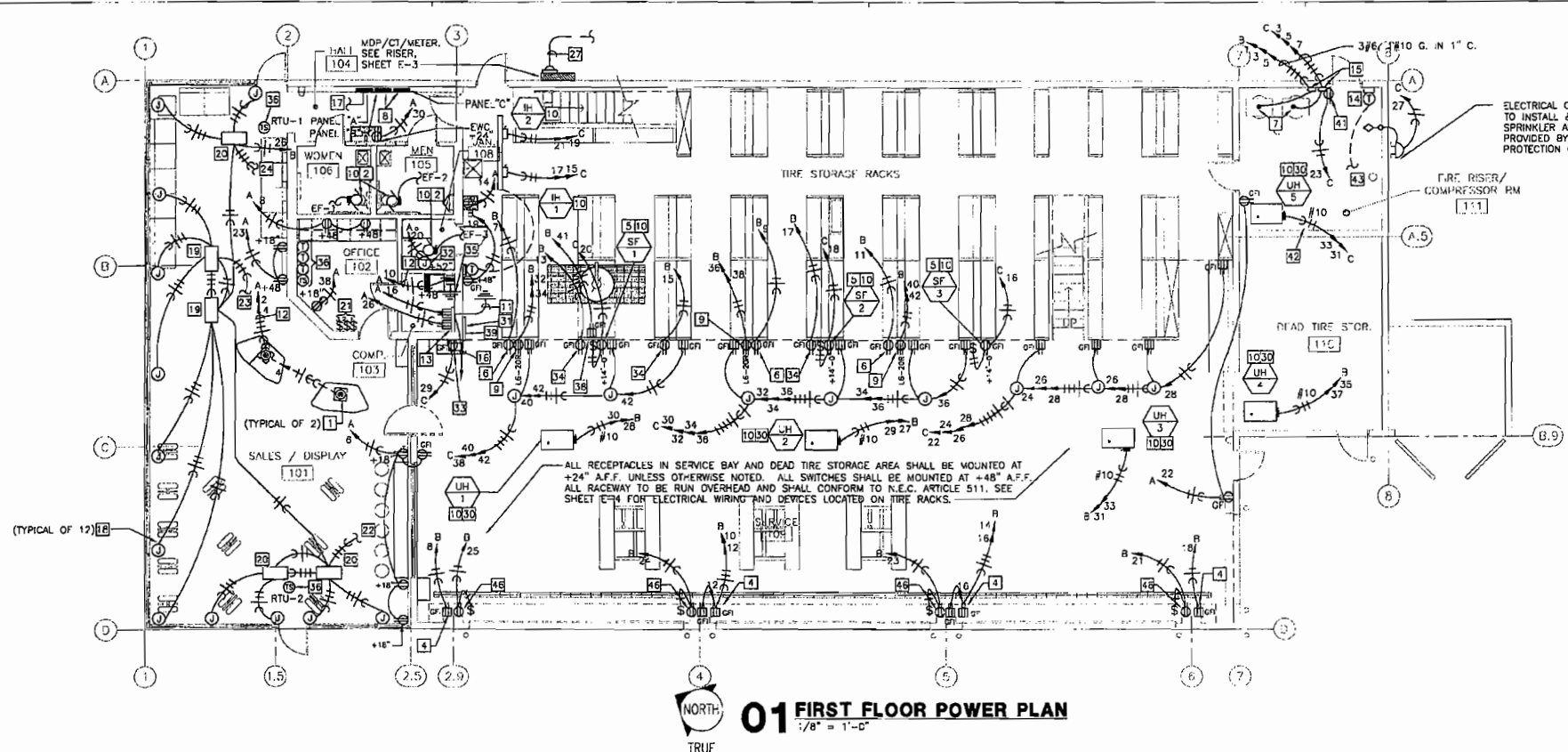
PROJECT MANAGER:
RVM

DRAWN BY:
WDA

SHEET TITLE:
LIGHTING DETAILS

DATE:
06/08/07

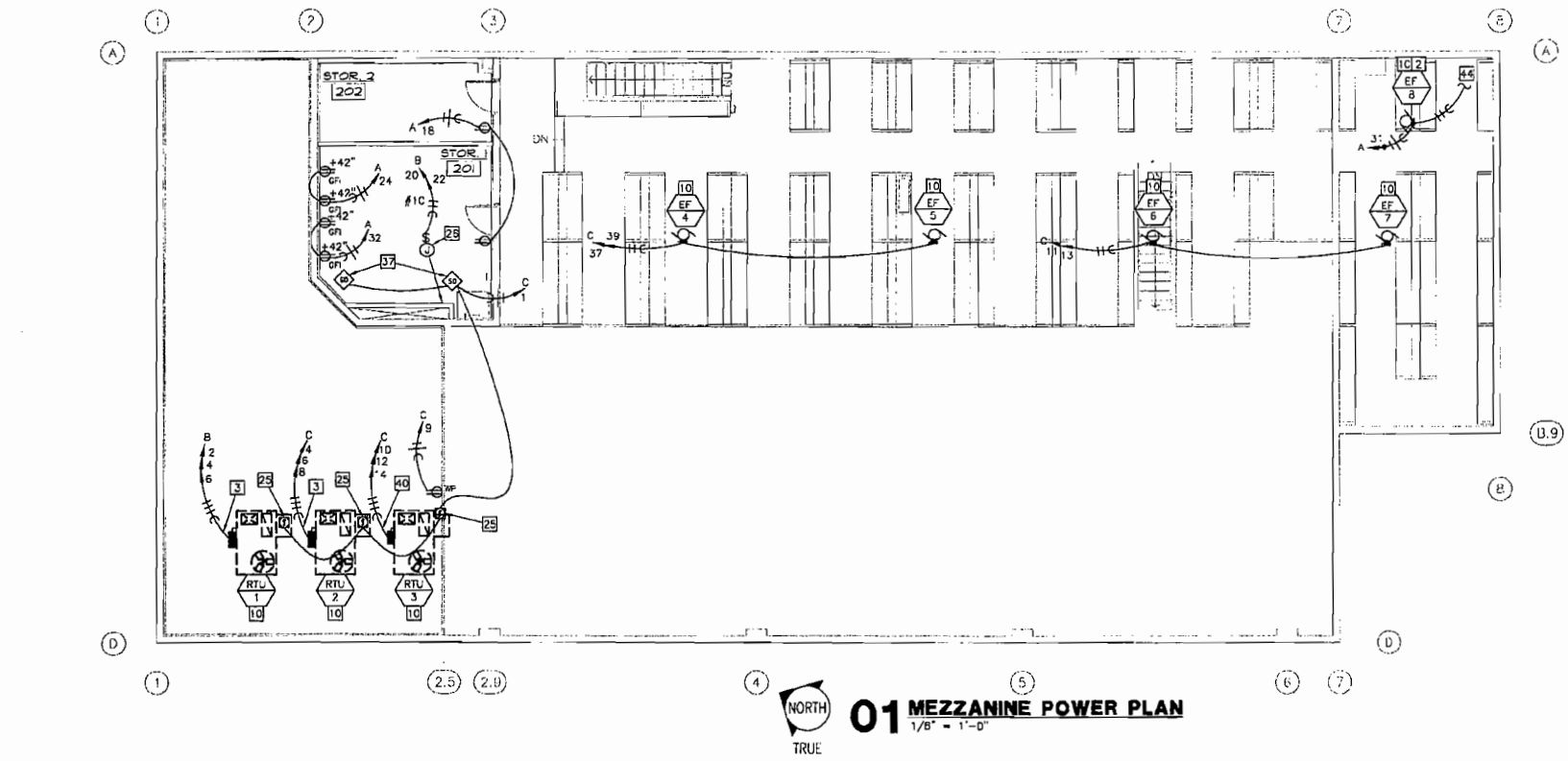
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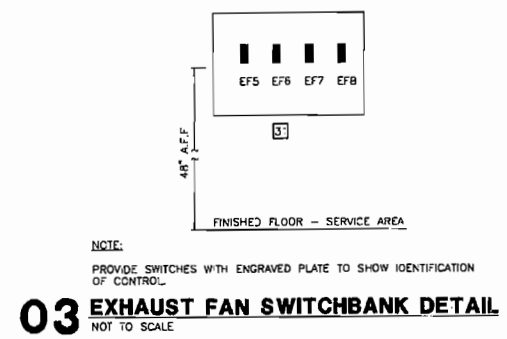
01 FIRST FLOOR POWER PLAN
1/8" = 1'-0"

- ### ELECTRICAL KEYED NOTES
- 1 PROVIDE FULL FLOOR-MOUNTED ISOLATED GROUND FOURPLEX RECEPTACLE MOUNTED IN CAST BOX AND THREADED HUBS, WITH COVERPLATE. COORDINATE EXACT LOCATION OF BOX PRIOR TO INSTALLATION.
 - 2 EXHAUST FAN POWER TO BE SUPPLIED FROM LIGHTING CIRCUIT. SEE "FIRST AND MEZZANINE LIGHTING FLOOR PLANS" FOR LIGHTING CIRCUIT.
 - 3 PROVIDE (3)#4 AND (1)#8 GND. IN 1-1/4" DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL.
 - 4 PROVIDE FOURPLEX RECEPTACLE FOR WALL-HUNG HYDRAULIC PUMP. MOUNT RECEPTACLE 24" A.F.F. RECEPTACLES FOR PUMPS ONLY.
 - 5 20 AMP RECEPTACLE FOR SUPPLY FANS SF-1 THRU SF-3 MOUNTED TO TIRE RACK AT 114'-0" A.F.F. MOUNT SINGLE POLE SWITCH AT 44" A.F.F. AND MAKE CONNECTION TO FAN AS REQUIRED.
 - 6 PROVIDE 20 AMP 120V DEDICATED RECEPTACLE FOR SPIN BALANCE EQUIPMENT. FIELD VERIFY EQUIPMENT REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN. MOUNT RECEPTACLE AT 24" A.F.F.
 - 7 3/8" #10 GND. IN 1" FLEXIBLE, LIQUID-TIGHT CONDUIT. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO EQUIPMENT. FIELD VERIFY EXACT LOCATIONS PRIOR TO ROUGH-IN.
 - 8 AS A PART OF ELECTRICAL GENERAL NOTE "L" ON "SCHEDULES AND RISER DIAGRAM" SHEET, PROVIDE (2) 3/4" C. W/ PULLSTRING FROM PANELS "D" AND "C" FOR FUTURE USE. ONE CONDUIT FROM EACH PANEL SHALL BE ROUTED TO ABOVE ACCESSIBLE CEILING IN THE FIRST FLOOR HALLWAY AND THE OTHER SHALL BE ROUTED TO THE CEILING SPACE IN "STORAGE 2" (ABOVE OFFICE AND RESTROOMS, ON MEZZANINE).
 - 9 PROVIDE 20 AMP 208V DEDICATED RECEPTACLE (L8-20R) FOR SPIN BALANCE EQUIPMENT. FIELD VERIFY EQUIPMENT REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN. MOUNT RECEPTACLE AT 24" A.F.F.
 - 10 REFER TO MECHANICAL DRAWINGS FOR EXACT SIZE, LOCATION AND REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT. PROVIDE ELECTRICAL SERVICE FOR EACH ITEM AS REQUIRED.

- ### ELECTRICAL KEYED NOTES
- 11 #16 GROUND TO BUILDING GROUND.
 - 12 PROVIDE A GROUND CONDUCTOR AND AN ISOLATED GROUND CONDUCTOR FOR THIS CIRCUIT.
 - 13 TELEPHONE BOARD, SEE "SPECIAL SYSTEMS FLOOR PLAN" SHEET.
 - 14 MECHANICAL FURNISHED LINE VOLTAGE THERMOSTAT. ELECTRICAL CONTRACTOR SHALL INSTALL THERMOSTAT AT 48" AFF AND PROVIDE CONDUIT AND WIRING TO MECHANICAL EQUIPMENT AS REQUIRED.
 - 15 60A, 3P, NEMA 1 FUSIBLE DISCONNECTS. SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION WITH COMPRESSOR INSTALLER. PROVIDE CODE REQUIRED CLEARANCE AS NECESSARY. MOUNT AT 44" A.F.F.
 - 16 PROVIDE 1" UNDERGROUND ELECTRICAL CONDUIT W/ PULLSTRING TO POST INDICATOR VALVE AND BACK FLOW PREVENTER FOR FIRE ALARM AS REQUIRED BY LOCAL CODE. RUN CONDUIT TO TELEPHONE BOARD.
 - 17 3/4" CONDUIT ONLY W/ PULL STRING. STUB-OUT AND CAP AT LOCATION DIRECTED BY DISCOUNT TIRE FOR FUTURE MONUMENT SIGN.
 - 18 CONTRACTOR SHALL CONNECT TO MOTOR FOR OWNER SUPPLIED "INSOLROLL" MOTORIZED SHADE FROM JUNCTION BOX.
 - 19 THREE MOTOR RELAY SUPPLIED BY "INSOLROLL".
 - 20 TWO MOTOR RELAY SUPPLIED BY "INSOLROLL".
 - 21 VOLUNTARY MASTER SWITCHES FOR MOTORIZED WINDOW SHADES SUPPLIED BY "INSOLROLL" AND LOCATED WITH LIGHTING SWITCH-BANK.
 - 22 TO MASTER SWITCH "1" LOCATED IN OFFICE.
 - 23 TO MASTER SWITCH "2" LOCATED IN OFFICE.
 - 24 TO MASTER SWITCH "3" LOCATED IN OFFICE.
 - 25 DUCT MOUNTED DETECTOR IS TO BE FURNISHED BY MECHANICAL EQUIPMENT SUPPLIER, INSTALLED BY MECHANICAL CONTRACTOR. CONTROL WIRING BY MECHANICAL CONTRACTOR, POWER WIRING BY ELECTRICAL CONTRACTOR.
 - 26 WATER HEATER, PROVIDE 30A, 208V, 1P, 2" DISCONNECT DEVICE. COORDINATE WITH PLUMBING CONTRACTOR.
 - 27 (2) 3-1/2" C. EACH W/ 4/350 KCMIL EACH CONDUIT. EXTEND CONDUITS AND WIRE TO UTILITY TRANSFORMER LOCATION FROM CT/METER EQUIPMENT. COORDINATE WITH UTILITY COMPANY FOR EXACT REQUIREMENTS.
 - 28 PROVIDE 120 VOLT POWER TO ELECTRICALLY OPERATED DAMPER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
 - 29 NOT USED.
 - 30 PROVIDE POWER AND MAKE FINAL CONNECTION TO 4.41KW HEATER.
 - 31 PROVIDE (4) TWO POLE TOGGLE SWITCHES FOR EXHAUST FAN CONTROL AND LABEL AS TO USE.
 - 32 J-BOX FOR IRRIGATION CONTROLS. FIELD VERIFY EXACT LOCATION.
 - 33 RECEPTACLE FOR COMPUTER SERVICE LIST IN SERVICE AREA MOUNT AT 48" AFF.
 - 34 PROVIDE 20 AMP 120V DEDICATED RECEPTACLE FOR TIRE CHANGING EQUIPMENT. FIELD VERIFY EQUIPMENT REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN. MOUNT RECEPTACLE AT 24" A.F.F.
 - 35 PROVIDE #10 AWG COPPER GROUND WIRE AT THE CPU LOCATION. THE #10 WIRE NEEDS TO BE A SOLID COPPER WIRE CONNECTED TO THE COLD WATER PIPE WITH A GROUND CLAMP. PROVIDE 10 FEET OF WIRE COILED ON THE OUTSIDE WALL, BELOW THE ISOLATED GROUND RECEPTACLE. THE COMPUTER DEPARTMENT WILL PROVIDE A GROUNDING LUG ON THE METAL EQUIPMENT SHELF AND THE ELECTRICIAN NEEDS TO CONNECT THE #10 GROUND WIRE TO THE COMPUTER SHELF.
 - 36 PROVIDE 1/2" CONDUIT WITH PULL WIRE FROM TSTAT/SENSOR TO THE UNIT.
 - 37 PROVIDE 120 VOLT POWER TO SMOKE DAMPER. SMOKE DAMPER WILL BE INSTALLED AND FURNISHED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
 - 38 BRANCH CIRCUITS DROPPING DOWN FROM OVERHEAD AND TERMINATING ON WORKBENCH ARE TO BE INSTALLED IN RIGID STEEL CONDUIT.
 - 39 EXHAUST FAN SWITCHBANK. SEE "EXHAUST FAN SWITCH-BANK DETAIL", THIS SHEET.
 - 40 (3)#8 & (1)#10 GND IN 3/4" DISCONNECT SWITCH PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE WITH MECHANICAL.
 - 41 PROVIDE 20 AMP 120V DEDICATED RECEPTACLE FOR ELECTRIC SOLENOID DRAIN VALVE ON THE COMPRESSORS.
 - 42 2#10, #10 GND, 1/2" C.
 - 43 UP TO EF-4.
 - 44 DOWN TO THE THERMOSTAT IN THE COMPRESSOR ROOM.
 - 45 NOT USED.
 - 46 (1) 20A RECEPTACLE AT EACH PILASTER, MOUNTED AT 10' A.F.F. WITH A SINGLE-POLE SWITCH AT 48" A.F.F. FOR FUTURE FANS.



01 MEZZANINE POWER PLAN
1/8" = 1'-0"



03 EXHAUST FAN SWITCHBANK DETAIL
NOT TO SCALE

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LICENSED PROFESSIONAL ENGINEER
No. 001817

SOUTH CAROLINA
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No. 21520
JOHN C. COULTER

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PROJECT MANAGER:
RVM
DRAWN BY:
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SHEET TITLE:
FIRST AND MEZZANINE
POWER
FLOOR PLANS
DATE:
06/08/07

SHEET NUMBER:
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PANEL: A		LOCATION: RESTROOM CORRIDOR		NEMA ENCLOSURE: 1								
SYSTEM: 200/120V, 3P, 4W		MAINS: 225A MLO		CABINET MOUNTING: RECESSED								
FEEDER: SEE RISER DIAGRAM				LUGS: BOTTOM								
OPTIONS:				AIC RATING: 42,000 SERIES								
LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR SIZE	BKR POLE	LOAD DESCRIPTION
EMERG / EXIT / N.L.	20	1	1	1,218	1	A	2	840		1	20	P.O.B. REC
GARAGE LYS	20	1		630	3	B	4	360		1	20	P.O.B. REC
GARAGE LYS	20	1		630	5	C	6	360		1	20	GEN REC
GARAGE LYS	20	1		630	7	A	8	360		1	20	OFFICE REC
GARAGE LYS	20	1		630	9	B	10	360		1	20	COMPUTER REC
GARAGE LYS	20	1		630	11	C	12	360		1	20	SPARE
GARAGE LYS	20	1		840	13	A	14	840		1	20	EWIC
GARAGE LYS	20	1		630	15	B	16	360		1	20	TELEPHONE BOARD
GARAGE LYS	20	1		840	17	C	18	360		1	20	STORAGE ROOM REC
FLAT REPAIR AREA LYS	20	1		400	19	A	20	200		1	20	FUTURE IRRIGATION
SALES LYS	20	1		740	21	B	22	360		1	20	GEN REC
COFFEE REC	20	1		1,500	23	C	24	360		1	20	JEZZANNE REC
SIGNAGE	20	1	3	1,200	25	A	26	360	1.4	1	20	FIRE ALARM PANEL
SIGNAGE	20	1	3	1,200	27	B	28	400		1	20	CEILING FANS
SIGNAGE	20	1	3	1,200	29	C	30	888		1	20	EWIC
DEAD TREE / COOPRIL LYS & EF-4	20	1		1,500	31	A	32	360		1	20	MEZZ STORAGE REC
BATH / OFF LYS / EPS	20	1		1,454	33	B	34	1,090		1	20	GARAGE LYS
SALES LYS	20	1		825	35	C	36	360		1	20	SPARE
SALES LYS	20	1		925	37	A	38	180		1	20	OFFICE REC
EXTERIOR LYS	20	1	3	400	39	B	40	840	3	1	20	EXTERIOR LYS
FUT. MOUNTING SKIN	20	1	3	1,200	41	C	42			1	20	SPARE

PHASE A: 10,162 W
PHASE B: 8,474 W
PHASE C: 9,233 W

CONNECTED: 28,869 W
DEMAND: 33,837 W
30 A

PANEL: B		LOCATION: RESTROOM CORRIDOR		NEMA ENCLOSURE: 1								
SYSTEM: 200/120V, 3P, 4W		MAINS: 225A MLO		CABINET MOUNTING: RECESSED								
FEEDER: SEE RISER DIAGRAM				LUGS: BOTTOM								
OPTIONS:				AIC RATING: 42,000 SERIES								
LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR SIZE	BKR POLE	LOAD DESCRIPTION
AIR COMPRESSOR	60	3		3,864	1	A	2	2,654		3	7C	RTU-1
120V SPIN BALANCER	20	1		1,000	7	A	8	1,176		1	2C	HYDR. PUMP REC
120V SPIN BALANCER	20	1		1,000	9	B	10	1,176		1	2C	HYDR. PUMP REC
120V SPIN BALANCER	20	1		1,000	11	C	12	1,176		1	2C	HYDR. PUMP REC
TIRE CHANGING EQUIPMENT	20	1		1,000	13	A	14	1,176		1	2C	HYDR. PUMP REC
TIRE CHANGING EQUIPMENT	20	1		1,000	15	B	16	1,176		1	2C	HYDR. PUMP REC
TIRE CHANGING EQUIPMENT	20	1		1,000	17	C	18	1,176		1	2C	HYDR. PUMP REC
TIME CLOCK	20	1		180	19	A	20	2,250		1	2C	WATER HEATER
FAN	20	1		800	21	B	22	2,280		1	2C	FAN
FAN	20	1		800	23	C	24	800		1	2C	FAN
FAN	20	1		800	25	A	26	250		1	2C	SHADES & MASTER
UH-2	30	2	2	2,205	27	B	28	2,205	2	2	30	UH-1
UH-2	30	2	2	2,205	29	C	30	2,205		2	30	UH-1
UH-3	30	2	2	2,205	31	A	32	1,000		2	20	200V SPIN BALANCER
UH-4	30	2	2	2,205	33	B	34	1,000		2	20	200V SPIN BALANCER
UH-4	30	2	2	2,205	35	C	36	1,000		2	20	200V SPIN BALANCER
SPARE	20	1		2,205	37	A	38	1,000		2	20	200V SPIN BALANCER
TIRE REPAIR REC	20	1		500	41	C	42	1,000		2	20	200V SPIN BALANCER

PHASE A: 21,232 W
PHASE B: 22,835 W
PHASE C: 21,885 W

CONNECTED: 65,949 W
DEMAND: 60,251 W
183 A

PANEL: C		LOCATION: RESTROOM CORRIDOR		NEMA ENCLOSURE: 1								
SYSTEM: 200/120V, 3P, 4W		MAINS: 225A MLO		CABINET MOUNTING: RECESSED								
FEEDER: SEE RISER DIAGRAM				LUGS: BOTTOM								
OPTIONS:				AIC RATING: 42,000 SERIES								
LOAD DESCRIPTION	BKR SIZE	BKR POLE	NOTE	WATTS	CCT NO.	PHASE	CCT NO.	WATTS	NOTE	BKR SIZE	BKR POLE	LOAD DESCRIPTION
SMOKE DAMPER / DUCT DETECTOR	20	1		200	1	A	2	2,654		1	20	SPARE
AIR COMPRESSOR	60	3		3,864	3	B	4	2,654	HACR	3	7C	RTU-2
RTU REC	20	1		180	9	B	10	2,654		1	15	RTU-3
EF-6 & EF-7	20	2		1,844	11	C	12	2,924	HACR	3	35	RTU-3
UH-1	15	2	2	1,000	15	B	16	806		1	15	SF-1
UH-2	15	2	2	1,000	17	C	18	806		1	15	SF-2
SPARE	20	1		1,000	19	A	20	896		1	15	SF-3
ELECTRIC SOLENOID DRAIN VALVE	20	1		800	23	C	24	360		1	20	RACK SYSTEM REC
SPARE	20	1		2,205	25	A	26	360		1	20	RACK SYSTEM REC
FLOW & TAMPER SWITCH	20	1		200	27	B	28	360		1	20	RACK SYSTEM REC
COMPUTER SERVICE AREA	20	1		800	29	C	30	360		1	20	RACK SYSTEM REC
UTIS	30	2	2	2,205	31	A	32	360		1	20	RACK SYSTEM REC
SPARE	20	1		2,205	33	B	34	360		1	20	RACK SYSTEM REC
EF-4 & EF-5	20	2		1,644	37	A	38	360		1	20	RACK SYSTEM REC
SPARE	20	1		1,564	39	B	40	360		1	20	RACK SYSTEM REC
SPARE	20	1		1,564	41	C	42	360		1	20	RACK SYSTEM REC

PHASE A: 18,241 W
PHASE B: 18,337 W
PHASE C: 15,652 W

CONNECTED: 52,034 W
DEMAND: 45,933 W
144 A

LIGHTING FIXTURE SCHEDULE 12345									
TYPE	MANUFACTURER	CAT. NO.	LAMPS	MOUNTING	VOLTS	REMARKS	NOTES	LOAD	
A	COLUMBIA LTG	J1624-3320-FSPC1-3E88120-C388-F0741	FACTORY SUPPLIED & INSTALLED	RECESSED	'20	2' X 4' PARABOLIC TROFFER		93	
B	COLUMBIA LTG	CS8-232-4E88120 W/ CSWC4	3-F32-T8-SP41	SUSPENDED FROM STRUCT.	120	8' FLUORESCENT STRIP		114	
C	COLUMBIA LTG	CS4-232-E88120	2-F32-T8-SP41	SUSPENDED FROM STRUCT.	120	4' FLUORESCENT STRIP		62	
D	HUBBELL	PCS-A175H-12B-1	1-175W MH	WALL	120	H.I.D. WALL PACK	L6	210	
E1	HUBBELL LTG	BL-175H8-WA22-WH-C2HLP1	1-175W MH	SURFACE	120	H.I.D. HI-BAY	L5, L1	210	
F	COLUMBIA LTG	W4-232-E88120	2-F32-T8	WALL	120	FLUOR. MIRROR BRACKET		82	
H	HUNTER	29800		SURFACE	120	CEILING FAN	L2	100	
K	HUBBELL	PCL-400H-12B-1	1-400W MH	WALL @ 12'-0" AFF	120	H.I.D. WALL PACK		461	
P	HOLOPHANE	POR-150MP-12B5-W1-RRB REMOTE BALLAST	1-150W MH	SUSPENDED 8'-6" AFF TO BTM OF FMT.	120	H.I.D. DECORATIVE PENDANT SUSPENDED FROM STRUCTURE	L1	185	
R	HUBBELL	NRG-414HB	1-175W MH	SURFACE	120	H.I.D. CEILING MOUNTED	L5	210	
X	DUAL LITE	LXSRW	INCLUDED	SURFACE	120	EXIT SIGN WITH BATTERY PACK	L3, L4	2	
Y	DUAL LITE	CVCS0-12V-1	2-9W-1 INCL	SURFACE	120	EMERGENCY UNIT WITH BATTERY BACK-UP & TIME DELAY RELAY	L3,L7	36	
Y1	DUAL LITE	SL1	2-9W-1 INCL	SURFACE	120	EMERGENCY UNIT WITH BATTERY BACK-UP	L3	20	
XY	DUAL LITE	LTSRW	2-5W HALOGEN MR16	SURFACE	120	COMBINATION UNIT WITH BATTERY BACK-UP & TIME DELAY RELAY	L3,L7	15	

LIGHTING FIXTURE NOTES

L1 FIXTURES WITH N.L. DENOTE LIGHTING FIXTURE WIRED TO NIGHT LIGHTING CIRCUIT.

L2 PADDLE FAN TO BE SUPPORTED FROM STRUCTURE ABOVE.

L3 FIXTURE SHALL HAVE A MINIMUM OF 90 MIN. BATTERY BACK-UP OR AS REQUIRED BY LOCAL CODE AUTHORITY.

L4 CONTRACTOR TO PROVIDE EXIT FIXTURE WITH ARROWS AS REQUIRED BY LOCAL CODE AUTHORITY.

L5 FIXTURE MOUNTING SHALL BE COORDINATED WITH TIRE RACK INSTALLATION SUBCONTRACTOR.

L6 ROUTE CIRCUIT THROUGH CONTACTOR CONTROLLED BY PHOTOCELL.

L7 TIME DELAY RELAY SHALL BE SET SUCH THAT EMERGENCY FIXTURE REMAINS ON UNTIL HD FIXTURES RESTART.

L8 VERIFY COLOR WITH ARCHITECT PRIOR TO INSTALLATION.

L9 PROVIDE PCLES WITH SINGLE OR TWIN HEADS AS SHOWN ON PLANS.

GENERAL LIGHTING NOTES:

1 ALL LIGHT FIXTURES FURNISHED BY OWNER. INSTALLED BY ELECTRICAL CONTRACTOR.

2 INSTALLATION OF LIGHTING FIXTURES TO BE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO CODE REQUIREMENTS.

3 CONTRACTOR SHALL COORDINATE LIGHTING FIXTURE INSTALLATION WITH CEILING CONSTRUCTION PRIOR TO BIDDING. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.

4 INSTALL TUBE GUARDS WITH EXPOSED LAMP FLUORESCENT FIXTURES, PROVIDED BY OWNER.

5 INSTALL WIRE GUARDS WITH EXPOSED LAMP FLUORESCENT FIXTURES, PROVIDED BY OWNER.

PANEL SCHEDULE NOTES

General Notes:

1 BALANCE PANELS WITHIN 10% PHASE TO PHASE.

Circuit Key Notes:

1 INDICATES CIRCUITS TO BE PROVIDED WITH LOCKOUT CLIPS.

2 PROVIDE HACR TYPE BREAKER.

3 ROUTE CIRCUIT THRU LIGHTING CONTACTOR.

4 FIRE ALARM SYSTEM PROVIDED AND INSTALLED BY OTHERS. COORDINATE EXACT LOCATION WITH DISCOUNT TIRE CONSTRUCTION MANAGER.

SERIES RATED NOTES

1. MAIN BREAKER IN S.E.S. TO BE "FULLY" RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT AT M.D.P. OF 42,000 AMPS R.M.S.

2. THE DISTRIBUTION SYSTEM IS TO BE A "SERIES" RATED, TWO-TIER, 42/22 SYSTEM.

3. MAIN BREAKERS IN M.D.P. TO BE "SERIES" RATED. MOTOR LOAD CONTRIBUTION TO THESE PANELBOARDS SHALL NOT EXCEED 1.0% OF THE PANELBOARD A.I.C. RATING.

4. WHERE "SERIES" RATING IS USED, PANELBOARDS AND DISTRIBUTION PANELS ARE TO BE LEGIBLY MARKED TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A "SERIES" COMBINATION RATING. LABELS CAN BE FACTORY INSTALLED OR ENGRAVED PLASTIC-LAMINATE CARD. MARKING SHALL COMPLY WITH ARTICLE 110-22 OF N.E.C.

RISER DIAGRAM NOTES:

AVAILABLE FAULT CURRENT FROM UTILITY TRANSFORMER IS 42,000 AMPS SYMMETRICAL MAX. BASED ON 225 KVA TRANSFORMER @ 2% IMPEDANCE.

THE MDP AND PANELBOARDS SHALL BE SERIES RATED FOR 42,000 A.I.C. ALL ISOLATED GROUND WIRE SHALL HAVE GREEN INSULATION WITH A YELLOW STRIPE.

ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL UTILITY COMPANY AND NATIONAL/LOCAL CODE REQUIREMENTS.

CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY FOR EXACT REQUIREMENTS. IF A SEPARATE CT ENCLOSURE IS REQUIRED, PROVIDE FUSIBLE SWITCH-BOARD WITH UTILITY SPECIFIED CT ENCLOSURE.

ELECTRICAL GENERAL NOTES

A. ALLOWANCES ARE TO BE INCLUDED FOR UNFORSEEN CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN ARE TO BE INCLUDED IN THAT ALLOWANCE.

B. ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 75°C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT U.L. LISTED FOR A MINIMUM 75°C CONDUCTORS TERMINATED ON EQUIPMENT WITH A LOWER RATING (60°C) OR NO RATING SHOWN TO HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO N.E.C. TABLE 310-16 AND U.L. NO. 489 REQUIREMENTS.

C. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND CONTACTORS ARE TO BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.

D. ALL CONDUIT INSTALLED INDOORS TO BE ELECTRICAL METALLIC TUBING (EMT), MINIMUM 1/2" AND CONDUCTORS TO BE A MINIMUM OF #12 THIN/THIN, COPPER UNLESS NOTED OTHERWISE. ALL POWER CONDUITS SHALL HAVE 2 #12 CONDUCTORS AND 1 #12 GROUND CONDUCTORS IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE.

E. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PULL WIRE.

F. TELEPHONE CABLE TO BE FURNISHED AND INSTALLED BY OTHERS. ALL CABLEING TO BE PLENUM RATED.

G. ELECTRICAL CONTRACTOR TO INCLUDE GROUND WIRE IN ALL RACEWAYS. SIZE RACEWAYS AS NECESSARY TO COMPLY WITH N.E.C.

H. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND DETAILS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES AND ANY OTHER EQUIPMENT INSTALLED IN THE CEILING SYSTEM. VERIFY EXACT MOUNTING HEIGHTS AND FINISHES WITH ARCHITECT PRIOR TO ROUGH-IN. CONDUIT RUNS TO BE RUN THROUGH TRUSSES WHERE POSSIBLE.

I. CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL WORK ABOVE THE CEILING TO PROVIDE THE GREATEST POSSIBLE CLEARANCE FOR INSTALLATION OF PLUMBING AND MECHANICAL INSTALLATION. CONDUIT RUNS TO BE RUN THROUGH TRUSSES WHERE POSSIBLE.

J. ELECTRICAL CONTRACTOR TO VERIFY EXACT PLACEMENT OF ALL DEVICES SHOWN ON THE ELECTRICAL CONSTRUCTION DOCUMENTS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS PRIOR TO FINAL PLACEMENT.

K. BRANCH CIRCUITS SHOWN WITH TWO GROUND CONDUCTORS SHALL HAVE ONE EQUIPMENT GROUND CONDUCTOR (GREEN) AND ONE ISOLATED GROUND CONDUCTOR (GREEN W/ YELLOW STRIP) INSTALLED IN RACEWAY.

L. ALL RECESSED PANELBOARDS ARE TO BE INSTALLED WITH A MINIMUM OF (2) 3/4" CONDUITS STUBBED UP TO ACCESSIBLE CEILING SPACE FOR FUTURE USE.

M. ALL PANELBOARDS, SWITCHBOARDS AND LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT. MARKING SHALL BE SELF-ADHESIVE, COMMERCIAL LABEL CONFORMING TO N.E.C. 110.16 AND A.N.S.I. Z353.4 AS MANUFACTURED BY IDEAL OR APPROVED EQUAL.

ELECTRICAL LEGEND

HOME RUN TO PANEL CIRCUIT NUMBERS, PHASE, NEUTRAL AND GROUND CONDUCTORS INDICATED. ALL CONDUITS TO BE #12 EXCEPT WHERE NOTED. CONDUIT TO BE 1/2" OR AS NOTED ON PLANS AND SPECIFICATIONS. PARTIAL CIRCUIT.

CONDUIT INSTALLED CONCEALED ABOVE CEILING OR IN WALL.

CONDUIT INSTALLED CONCEALED BELOW FLOOR SLAB OR UNDERGROUND.

FLUORESCENT STRIP LIGHT FIXTURE

WALL MOUNTED FLUORESCENT FIXTURE

HI BAY LIGHT FIXTURE

RECESSED LIGHT FIXTURE

SURFACE MOUNTED LIGHT FIXTURE

EXIT LIGHT WITH BATTERY BACKUP LOCATED BOTTOM AT 7'-6" A.F.F.

2'x4' FLUORESCENT LAY-IN LIGHT FIXTURE

NIGHT LIGHT FIXTURE

EMERGENCY LIGHT WITH BATTERY BACKUP

EXIT/EMERGENCY LIGHT W/ BATTERY BACKUP COMBINATION UNIT.

SINGLE POLE SWITCH, 40-10" DR AS NOTED.

20 AMP DUPLEX RECEPTACLE, +18" OR AS NOTED.

GROUND FAULT RECEPTACLE, +18" OR AS NOTED.

WEATHER PROOF G.F.I. PROTECTED RECEPTACLE

ISOLATED GROUND DUPLEX RECEPTACLE, +18" OR AS NOTED.

QUADPLEX RECEPTACLE, +18" OR AS NOTED.

ISOLATED GROUND QUADPLEX RECEPTACLE, +18" OR AS NOTED.

FLUSH FLOOR-MOUNTED DUPLEX RECEPTACLE

TWIST LOCK RECEPTACLE, 18" OR AS NOTED.

LIGHTING CONTACTOR.

PHOTOCELL MOUNTED ON RDOF FACING NORTH.

JUNCTION BOX.

TELEPHONE OUTLET, +18" OR AS NOTED.

DATA OUTLET, +18" OR AS NOTED.

TELEPHONE/DATA OUTLET, +18" OR AS NOTED.

DISCONNECT SWITCH (FURNISHED AND INSTALLED BY ELEC. CONT.)

DISCONNECT SWITCH FURNISHED WITH EQUIPMENT (INSTALLED BY ELEC. CONT.)

MOTOR CONNECTION.

120/208V, PANELBOARD, TOP 6"-0".

A.F.F. ABOVE FINISHED FLOOR.

N.L. NIGHT LIGHT.

WP WEATHERPROOF.

+54" HEIGHT ABOVE FLOOR TO CENTER LINE OF OUTLET BOX.

DUCT TYPE SMOKE DETECTOR BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT POWER CONNECTION.

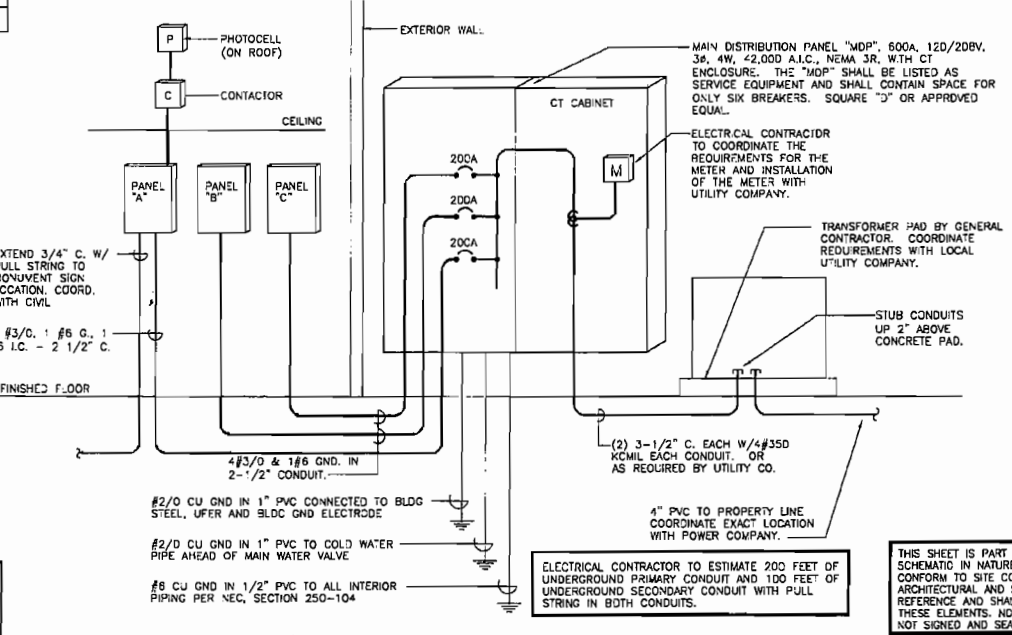
SPRINKLER BELL FURNISHED BY FIRE PROTECTION CONTRACTOR. MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR.

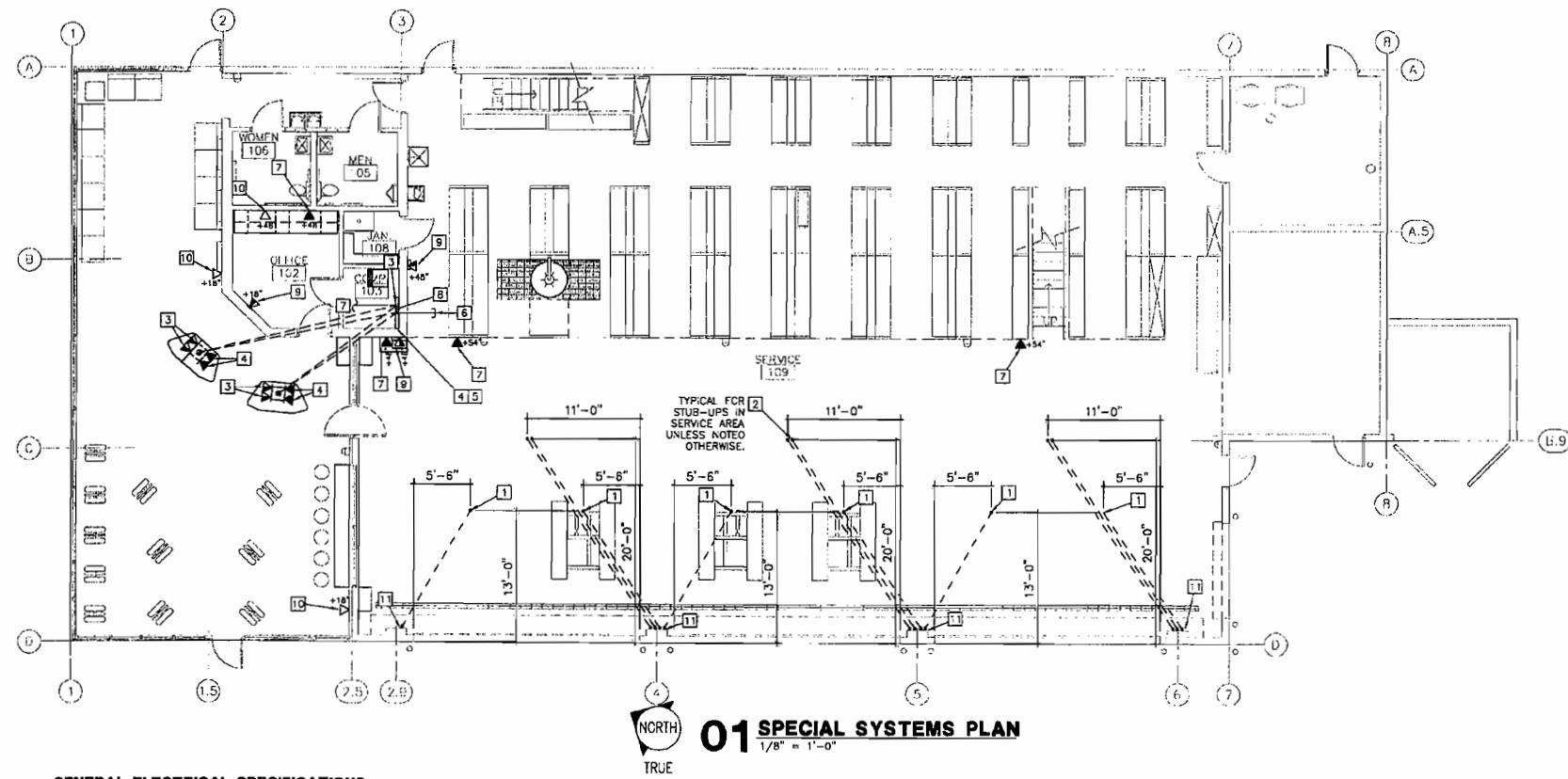
SPRINKLER FLOW SWITCH AND TAMPER SWITCH, TWO SEPARATE ZONES REQUIRED. (PROVIDED BY PLUMBING CONTRACTOR).

THERMOSTAT (FURNISHED BY MECHANICAL CONTRACTOR)

TEMPERATURE SENSOR BY MECHANICAL CONTRACTOR.

WALL UNIT TO HAVE BDX @+48" A.F.F.





01 SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

GENERAL ELECTRICAL SPECIFICATIONS

THE WORK INCLUDES PROVIDING NEW MATERIALS, FIXTURES, DEVICES AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COMPLY WITH ALL LAWS APPLYING TO ELECTRICAL INSTALLATIONS IN EFFECT, AND WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRICAL CODE, ADA, APPLICABLE SECTIONS OF OTHER NFPA, OSHA, LIFE SAFETY CODES AND RECOMMENDATIONS, AND THE INTERIM AMENDMENTS IN EFFECT AT THE TIME OF THE PROPOSAL. ALL MATERIALS USED SHALL BE NEW AND SHALL CONFORM TO THE STANDARDS ESTABLISHED BY THE UNDERWRITERS LABORATORIES INCORPORATED.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, DEVICES, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT FURNISHED BY OTHERS.

TEMPORARY SERVICES: ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240 VOLT, SINGLE-PHASE, THREE-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING CAN BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

ELECTRICAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. ALLOWANCES ARE TO BE INCLUDED FOR UNFORESEEN EXISTING CONDITIONS THAT MAY AFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN IS TO BE INCLUDED IN THIS ALLOWANCE.

ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES. ANY ITEM DAMAGED BY THIS CONTRACTOR IS TO BE REPAIRED IMMEDIATELY AND AT NO COST TO THE OWNER.

ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.

ELECTRICAL DESIGN HAS BEEN BASED ON THE INSTALLATION OF 75°C CONDUCTORS CONNECTED TO TERMINAL LUGS AND EQUIPMENT, U.L. LISTED FOR A MINIMUM 75°C CONDUCTORS TERMINATED ON EQUIPMENT OR DEVICES WITH A LOWER RATING (67°C) OR NO RATING SHOWN, SHALL HAVE CONDUCTOR SIZE INCREASED TO CONFORM TO N.E.C. TABLE 310-16 AND U.L. NO. 489 REQUIREMENTS.

DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE, QUICK-BREAK TYPE, NEMA 1 ENCLOSURE FOR INDOOR LOCATIONS (NEMA 3R FOR OUTDOOR LOCATIONS). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE 'D', GENERAL ELECTRIC, OR SIEMENS (I.T.E.). PROVIDE FUSES AS MANUFACTURED BY BUSSMAN, GULDO-SHAWMUT, OR LITTLE-FUSE. ALL CONDUCTOR TERMINALS TO BE U.L. LISTED FOR A MINIMUM OF 75°C SWITCHES USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.

PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE 'D', GENERAL ELECTRIC, SIEMENS OR EATON CCRP. MEETING U.L. STANDARDS 50 AND 67. WITH U.L. LABEL. PANELS USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.

BREAKERS: THERMAL MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, BOLT-IN TYPE OF SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. ALL SINGLE POLE BREAKERS TO BE RATED FOR "SWITCHING OUTY" (SWO) AND FOR OPERATION ON FLUORESCENT LIGHTING SOURCES. CIRCUIT BREAKERS PROTECTING HIGH INTENSITY DISCHARGE (HID) LIGHTING TO BE RATED AND LABELED "HID" FOR OPERATION ON H.I.D. LIGHTING SOURCES. ALL BREAKERS FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACR" RATED BREAKERS.

CABINETS SHALL BE ONE PIECE GAGE GALVANIZED STEEL WITH VOLUING STUDS, WIRING CUTTERS OF AMPLI SIZE AND KNOCKOUT FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98% CONDUCTIVE COPPER, ALUMINUM, OR COPPER-CLAD ALUMINUM. FRONTS SHALL BE ONE PIECE GAGE FURNITURE STEEL WITH ADJUSTABLE FASTENERS. RECESSED CABINETS TO BE INSTALLED WITH A MINIMUM (2) 3/4" SPARE CONDUITS STUBBED UP TO ACCESSIBLE CEILING SPACE.

EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OF INSIDE OF THE PANEL DOOR IN THE CASE OF PANELBOARDS AND LOCATED AT EACH SWITCH ON A SWITCHBOARD.

ALL PANELBOARDS, SWITCHBOARDS AND LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT. MARKING SHALL BE SELF-ADHESIVE, COMMERCIAL LABEL CONFORMING TO N.E.C. 110.18 AND A.N.S.I. Z39.54 AS MANUFACTURED BY IDEAL OR APPROVED EQUAL.

GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING, WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

CONDUIT SHALL BE SIZED TO COMPLY WITH N.E.C. FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW SLAB OR MINIMUM 2" BELOW EXTERIOR GRADE AND MINIMUM 3/4" SIZE. PROVIDE ELECTRICAL METAL TUBING (EMT) MEETING U.L. 797 AND ANSI CSD.3. MC CABLE, OR FLEXIBLE METAL CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLING SHALL BE SET-SCREW TYPE. PROVIDE GALVANIZED RIGID STEEL (GRS) OR INTERMEDIATE METAL CONDUIT (IMC) OUTDOORS AND IN DAMP LOCATIONS USING THREADED COUPLINGS & CONNECTORS. CLAMP CONDUIT TO BOXES WITH BUSHING INSIDE AND LOCKNUT OUTSIDE. ("MC" & "AC" TYPE CABLES NOT APPROVED FOR THIS INSTALLATION.)

ALL CONDUIT AND RACEWAY SYSTEMS TO BE INSTALLED WITH SEPARATE GROUND CONDUCTOR. CONDUIT SYSTEM IS NOT TO BE USED AS THE SOLE GROUNDING MEANS.

ALL SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, AND TRANSFORMERS SHALL BE PROVIDED WITH LUGS LABELED AND RATED FOR A MINIMUM 75°C. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, AND TRANSFORMERS ARE TO BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.

CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING, B AND S GAGE, #10 AND SMALLER TO BE SOLID, #8 AND LARGER TO BE STRANDED, MINIMUM #12 UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTOR WILL NOT BE ALLOWED, THHN MAY NOT BE USED UNDERGROUND, AT SERVICE ENTRANCE, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 90° V AND TYPES AS FOLLOWS:

#10 AND SMALLER: THHN OR THWN
#8 TO #4/D: THHN OR THWN USE-RHW
SERVICE ENTRANCE: XHHW
OVER #4/D WET OR "HOT" SERVICE: XHHW
OVER #4/D DRY/WET SERVICE: THHN OR XHHN THHN

WHERE THE PREMISES WIRING SYSTEM HAS BRANCH CIRCUITS SUPPLIED FROM MORE THAN ONE NOMINAL VOLTAGE SYSTEM, 240-1 UNGROUNDED CONDUCTOR OF A BRANCH CIRCUIT, WHERE ACCESSIBLE, SHALL BE IDENTIFIED BY SYSTEM. THE MEANS OF IDENTIFICATION SHALL BE PERMITTED TO BE BY SEPARATE COLOR CODING, MARKING, TAPING, OR OTHER APPROVED MEANS AND SHALL BE PERMANENTLY POSTED AT EACH BRANCH CIRCUIT PANELBOARD OR SIMILAR BRANCH CIRCUIT DISTRIBUTION EQUIPMENT AS REQUIRED BY ARTICLE 210.6(g).

DEVICES SHALL BE MANUFACTURED BY LEVITON, "INDUSTRIAL SPECIFICATION GRADE" OR EQUAL. ALL DEVICES SHALL BE GRAY COLOR. USE A BRUSHED STAINLESS STEEL COVERPLATE ON FLUSH MOUNTED DEVICES AT SHOWROOM, RESTROOMS AND OFFICE. GALVANIZED INDUSTRIAL COVERS ARE ACCEPTABLE ON SURFACE MOUNT DEVICES IN SERVICE BAY AREA. ALL DEVICES SHALL BE FLUSH MOUNTED WHEN PRACTICABLE. STANDARD DUPLEX RECEPTACLES SHALL BE GROUNDING TYPE, 20A, NEMA W3-2 STANDARD 5-2DR. SIDE WIRE, LEVITON #5342. LIGHT SWITCHES SHALL BE 23 AMP, 120 VOLT, LEVITON #1221-2. WHERE SWITCHES ARE GROUPED, PROVIDE GANG PLATES.

LIGHT FIXTURES AND LAMPS ARE FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR ACCORDING TO U.L.C. STANDARDS, SECTION 25-2, 1994 EDITION. THE ELECTRICAL CONTRACTOR SHALL REVIEW MATERIALS AT THE TIME OF DELIVERY AND IMMEDIATELY REPORT ANY DAMAGE OR MISSING PIECES.

EMERGENCY LIGHTING SHALL HAVE A MINIMUM OF 90 MIN. BATTERY BACK-UP, OR AS REQUIRED BY LOCAL CODE AUTHORITY. LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF VOLTAGE DROP EXCEEDS 3% OR 100 FEET OF LENGTH.

CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILING OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUITS PARALLEL TO BUILDING LINES, AND TO CLEAR ALL OPENINGS, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC.

INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90 DEGREE BENDS, SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS BEFORE INSTALLATION AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT CLEAN. TERMINALS ON SWITCHES AND OUTLET SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR OUTLET.

TOUCH-UP OR REFINISH DAMAGED SURFACES OF FIXTURES AND EQUIPMENT, EXPOSED TO VIEW.

TELEPHONE CABLE TO BE FURNISHED AND INSTALLED BY OTHERS. ALL CABLEING TO BE PLENUM RATED. ELECTRICAL CONTRACTOR TO PROVIDE NEW PLYWOOD BACKBOARD FOR NEW TELEPHONE TERMINAL BOARD. COORDINATE EXACT REQUIREMENTS WITH LOCAL TELEPHONE UTILITY REPRESENTATIVE AND OWNER.

FOR EQUIPMENT FURNISHED BY OWNER OR OTHER CONTRACTORS: ELECTRICAL CONTRACTOR TO VERIFY EXACT LOAD, TYPE OF CONNECTION AND MOUNTING HEIGHT FOR EACH BOX OR EQUIPMENT ITEM TO BE INSTALLED. ALL HARD-WIRED CONNECTIONS TO EQUIPMENT TO BE MADE WITH FLEXIBLE LIQUID-TITE METAL CONDUIT WITH GREEN GROUND CONDUCTOR INSTALLED INSIDE RACEWAY. GROUND CONDUCTOR TO BE BONDED AT BOTH ENDS.

CONTRACTORS SHALL BE SQUARE "D", CLASS 89D3 OR EQUAL, AS SHOWN ON THE PLANS. ELECTRICALLY HELD, DESIGNED FOR TWO-WIRE CONTROL CIRCUIT, FULLY RATED FOR ALL CLASSES OF INDUCTIVE AND NON-INDUCTIVE LOADS, AND RATED FOR CONTINUOUS CAPACITY AND POWER CIRCUIT VOLTAGE NOT LESS THAN INDICATED ON DRAWINGS. PROVIDE WITH NUMBER OF POLES INDICATED OR SPECIFIED. CONTRACTORS SHALL BE FURNISHED WITH NEMA 1, SURFACE MOUNTED ENCLOSURES UNLESS CALLED FOR OTHERWISE ON DRAWINGS. EACH CONTRACTOR SHALL BE PROVIDED WITH ENGRAVED LAMINATED PLASTIC NAMEPLATE WITH BLACK BACKGROUND AND 1/4" WHITE LETTERS TO DESIGNATE USE OF CONTRACTOR.

COORDINATE WITH THE WORK OF OTHER SECTIONS. VERIFY EXISTING SITE CONDITIONS BEFORE BIDDING. MAKE ALL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. COMPLY WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

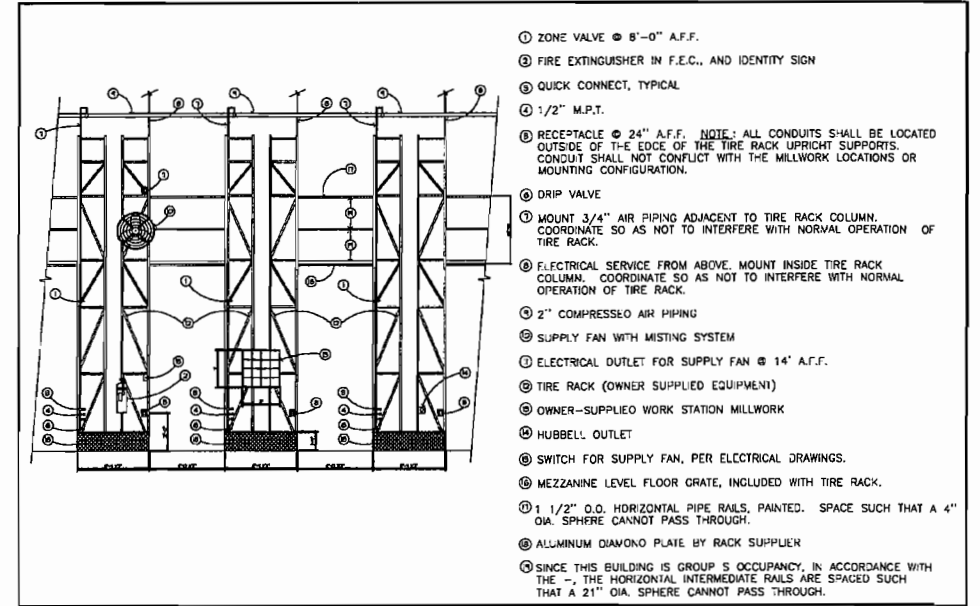
CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EQUIPMENT AND SYSTEMS AGAINST HARMFUL EXPOSURE, OR ACCUMULATION OF DUST OR MOISTURE, FLOODING, CORROSION, AND ALL OTHER FORMS OF DAMAGE. CLEAN AND RESTORE DAMAGED FINISHES AND EQUIPMENT TO "LIKE-NEW" CONDITION.

CONTRACTOR SHALL BE RESPONSIBLE FOR SECURELY STORING ALL OWNER FURNISHED ITEMS AND IT SHALL BECOME THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND INSTALL THESE ITEMS ONCE THEY HAVE BEEN DELIVERED TO THE SITE. THIS SPECIFICALLY APPLIES TO LIGHT FIXTURES ON THIS PROJECT.

ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED AND TESTED FOR PROPER OPERATION. AFTER WIRES ARE IN PLACE AND CONNECTED TO DEVICES AND EQUIPMENT, THE SYSTEM SHALL BE TESTED FOR SHORTS AND GROUNDS. ALL HOT AND NEUTRAL CONDUCTORS, IF SHORTED OR GROUNDED, SHALL BE REMOVED AND REPLACED. ALL METERS, INSTRUMENTS, CABLE CONNECTIONS, EQUIPMENT, OR APPARATUS NECESSARY FOR MAKING ALL TESTS SHALL BE FURNISHED BY THIS CONTRACTOR.

WIRING METHODS SHALL CONFORM TO THE NEC SECTION 110.

ALL POWER SHALL BE FED FROM OVERHEAD IN SERVICE BAYS AND ALL DEVICES SHALL BE MOUNTED AT 24" A.F.F. UNLESS NOTED OTHERWISE.



02 TIRE RACK ELEVATION DETAIL
NOT TO SCALE

- 1 ZONE VALVE @ 8'-0" A.F.F.
- 2 FIRE EXTINGUISHER IN F.E.C. AND IDENTITY SIGN
- 3 QUICK CONNECT, TYPICAL
- 4 1/2" M.P.T.
- 5 RECEPTACLE @ 24" A.F.F. NOTE: ALL CONDUITS SHALL BE LOCATED OUTSIDE OF THE EDGE OF THE TIRE RACK UPRIGHT SUPPORTS. CONDUIT SHALL NOT CONFLICT WITH THE MILLWORK LOCATIONS OR MOUNTING CONFIGURATION.
- 6 DRIP VALVE
- 7 MOUNT 3/4" AIR PIPING ADJACENT TO TIRE RACK COLUMN. COORDINATE SO AS NOT TO INTERFERE WITH NORMAL OPERATION OF TIRE RACK.
- 8 ELECTRICAL SERVICE FROM ABOVE. MOUNT INSIDE TIRE RACK COLUMN. COORDINATE SO AS NOT TO INTERFERE WITH NORMAL OPERATION OF TIRE RACK.
- 9 2" COMPRESSED AIR PIPING
- 10 SUPPLY FAN WITH MISTING SYSTEM
- 11 ELECTRICAL OUTLET FOR SUPPLY FAN @ 14' A.F.F.
- 12 TIRE RACK (OWNER SUPPLIED EQUIPMENT)
- 13 OWNER-SUPPLIED WORK STATION MILLWORK
- 14 HUBBELL OUTLET
- 15 SWITCH FOR SUPPLY FAN, PER ELECTRICAL DRAWINGS.
- 16 MEZZANINE LEVEL FLOOR GRATE, INCLUDED WITH TIRE RACK.
- 17 1 1/2" O.D. HORIZONTAL PIPE RAILS, PAINTED. SPACE SUCH THAT A 4" DIA. SPHERE CANNOT PASS THROUGH.
- 18 ALUMINUM DIAMOND PLATE BY RACK SUPPLIER
- 19 SINCE THIS BUILDING IS GROUP 5 OCCUPANCY, IN ACCORDANCE WITH THE IBC, THE HORIZONTAL INTERMEDIATE RAILS ARE SPACED SUCH THAT A 21" DIA. SPHERE CANNOT PASS THROUGH.

ELECTRICAL KEYED NOTES

- 1 PROVIDE 1-1/4" PVC CONDUIT UNDER SLAB AND STUBBED UP AS SHOWN FOR HYDRAULIC LINES.
- 2 PROVIDE 1-1/4" PVC CONDUIT UNDER SLAB AND STUBBED UP AS SHOWN FOR COMPRESSED AIR LINES.
- 3 PROVIDE 2" C. W/ PULLSTRING UNDERGROUND FROM COMPUTER CABINET IN COMPUTER ROOM (103) (REFER TO COLONY CABINETS FOR EXACT STUB-UP LOCATION) TO EACH DATA OUTLET FOR PEDESTAL OF SALES COUNTER.
- 4 PROVIDE 2" C. W/ PULLSTRING UNDERGROUND FROM TELEPHONE BOARD AND J-BOX FLUSH MOUNTED IN EACH PEDESTAL OF SALES COUNTER FOR TELEPHONE.
- 5 PROVIDE NEW MARINE-GRADE PLYWOOD BACKBOARD 3/4" THICK THAT COVERS ENTIRE WALL FOR NEW TELEPHONE TERMINAL BOARD AND #1 GND. WIRE. COORDINATE EXACT LOCATION OF TELEPHONE BOARD WITH LOCAL TELEPHONE UTILITY REPRESENTATIVE AND OWNER.
- 6 PROVIDE (2) 3" CONDUITS W/ PULLSTRING TO LOCATION DIRECTED BY TELEPHONE COMPANY. PROVIDE TRENCH AND BACKFILL AS REQUIRED. COORDINATE CONDUIT SIZE WITH LOCAL TELEPHONE COMPANY. (ESTIMATE (2) 200' LENGTHS OF 3" EMPTY CONDUIT W/ PULL ROPE FROM TELEPHONE BOARD.)
- 7 PROVIDE 3/4" CONDUIT W/ PULLSTRING STUBBED TO THE TELEPHONE TERMINAL BOARD FROM TELEPHONE OUTLETS. CONDUIT TO BE RUN OVERHEAD IN SERVICE BAY, RUN UNDERGROUND IN ALL OTHER LOCATIONS.
- 8 PROVIDE 2" CONDUIT W/ PULLSTRING FROM TELEPHONE BOARD TO COMPUTER STAND LOCATION IN COMPUTER ROOM (103).
- 9 PROVIDE 3/4" C. W/ PULLSTRING FROM DATA OUTLET TO COMPUTER CABINET IN COMPUTER ROOM (103).
- 10 PROVIDE (2) 3/4" C. W/ PULLSTRING ONE FROM DATA OUTLET TO COMPUTER CABINET IN COMPUTER ROOM (103) AND ONE TO THE TELEPHONE TERMINAL BOARD FROM TELEPHONE OUTLETS. CONDUIT TO BE RUN OVERHEAD IN SERVICE BAY, RUN UNDERGROUND IN ALL OTHER LOCATIONS.
- 11 2" GAP BETWEEN STUB-UPS AND WALL.

THIS SHEET IS PART OF THE CONSTRUCTION DOCUMENTS. OTHER SHEETS INCLUDING SPECIFICATIONS APPLY. THAT SHOWN HEREON SCHEMATIC IN NATURE AND NOT TO BE USED AS SHOP DRAWING; THEREFORE, INCLUDE ALL MODIFICATIONS REQUIRED TO CONFORM TO SITE CONDITIONS AND THE EQUIPMENT AND MATERIAL USED. VERIFY LOCATIONS AND DIMENSIONS OF ALL ARCHITECTURAL AND STRUCTURAL ELEMENTS AS SHOWN ON THEIR RESPECTIVE DOCUMENTS. THESE ELEMENTS ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OF THESE ELEMENTS. NO DESIGN RESPONSIBILITY IS ASSUMED FOR ANY PORTION OF THE WORK THAT THE PROFESSIONAL ENGINEER IS NOT SIGNED AND SEALED PER STATE REQUIREMENTS.

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PROJECT MANAGER:
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SHEET TITLE:
SPECIAL SYSTEMS FLOOR PLAN

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