

ELECTRICAL SPECIFICATIONS

THE WORK SHALL INCLUDE FURNISHING AND INSTALLING ALL ELECTRICAL SYSTEMS AND EQUIPMENT AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN.

THE CONTRACTOR SHALL EXAMINE THE DRAWINGS, SPECIFICATIONS AND JOB SITE AND FULLY INFORM HIMSELF OFF ALL EXISTING CONDITIONS AND WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. WAIVER OF RESPONSIBILITY OR REQUEST FOR ADDITIONAL PAYMENT BASED ON LACK OF CONDITIONS AT THE SITE WILL NOT BE ACCEPTED OR CONSIDERED.

THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODES, LOCAL JURISDICTION REQUIREMENTS, AND LOCAL STATE CODE REQUIREMENTS.

ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR ELECTRICAL WORKS.

ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.

ADVANCE NOTICE SHALL BE GIVEN TO THE OWNER BEFORE COMMENCEMENT OF WORK, WHETHER OR NOT AN OUTAGE IS REQUIRED.

ALL CIRCUITRY, EQUIPMENT, DEVICES, ETC., SHALL BE NEW UNLESS SPECIFICALLY NOTED ON THE PLANS.

THE FOLLOWING TERMINOLOGY AND MEANINGS WILL BE USED IN THESE SPECIFICATIONS.

A. "PROVIDE": FURNISH AND INSTALL.

ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS. MONDAY THROUGH FRIDAY (7 A.M. TO 5 P.M.) IF WORK CANNOT BE PERFORMED IN NORMAL WORKING HOURS THE OWNER SHALL BE NOTIFIED PRIOR TO THE SIGNING OFF THE CONTRACT.

FINAL TESTING: AT THE TIME OF FINAL INSPECTION AND TEST, ALL CONNECTIONS AT PANEL BOARDS, DEVICES AND EQUIPMENT, AND ALL SUPPLIES MUST BE COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED CIRCUIT MUST TEST FREE OF SHORT CIRCUITS. UPON COMPLETION OF THE WORK, CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

SWITCHES RECEPTACLES & OUTLETS

PRIOR TO INSTALLATION OF ANY TELEPHONE, RECEPTACLE OUTLETS, THIS CONTRACTOR SHALL VERIFY ITS FINAL LOCATION WITH THE ARCHITECT. THE ARCHITECT MAY, AT HIS OPTION, RELOCATE ANY DEVICE WITHIN 5 FEET FORM THE LOCATION SHOWN ON THE DRAWINGS AT NO CHARGE TO THE OWNER.

WHERE TWO OR MORE DEVICES OF THE SAME VOLTAGE ARE SHOWN TOGETHER ON THE PLANS, A GANGED PLATE SHALL BE USED.

ALL RECEPTACLES, TELEPHONE, AND DATA OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE A MINIMUM OF 6" HORIZONTALLY.

WALL PLATES SHALL BE STAINLESS STEEL. FINISHED AS SELECTED BY ARCHITECT.

COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS WITH DOOR SWINGS. LOCATE LIGHT SWITCH ON LOCK SIDE OF DOOR.

TELEPHONE CABLES WILL BE INSTALLED BY OTHERS.

LABELING

PROVIDE LABELING FOR ALL ELECTRICAL PANELS AND ALL MAJOR PIECES FOR EQUIPMENT AS FOLLOWS:

A. PROVIDE A TYPED CIRCUIT DIRECTORY FOR EACH PANELBOARD.  
B. ALL JUNCTION BOXES FOR BRANCH CIRCUITRY SHALL BE LABELED WITH PANEL DESIGNATION AND CIRCUIT NUMBERS WITH MINIMUM 1/4" HIGH LETTERS.

BRANCH CIRCUITRY

USE BY CABLE WHERE PERMITTED.

ALUMINUM CONDUIT IS NOT PERMITTED.

ALL CIRCUITRY RUNS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN FIELD THE MOST SUITABLE ROUTES.

MINIMUM SIZE EMT OR CONDUIT SHALL BE 1/2"

NO NONMETALLIC CONDUIT SHALL BE USED FOR BRANCH CIRCUIT WORK ABOVE GRADE.

CIRCUITRY SHALL BE RUN CONCEALED IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS.

CIRCUITRY SHALL BE RUN TIGHT TO THE UNDERSIDE OF THE FLOOR SLAB ABOVE IN A NEAT WORKABLE MANNER. ALL RUNS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING WALLS.

ALL EMPTY RACEWAYS SHALL CONTAIN A DRAG WIRE. EMPTY RACEWAYS 2" OR LARGER IN SIZE SHALL HAVE A MAXIMUM OF 3-90 DEGREE BENDS.

MAKE FINAL CONNECTION TO ALL MOTORS AND VIBRATING EQUIPMENT WITH FLEXIBLE CONDUIT.

ALL CONDUIT/CABLE PENETRATIONS OF EXTERIOR WALLS, FIRE RATED WALLS AND FIRE RATED FLOORS, SHALL BE CAULKED AND SEALED WATERTIGHT. SEALS FOR FIRE RATED PENETRATIONS SHALL BE SEALED WITH UL LISTED PUTTY TYPE SEALING COMPOUND.

WIRE AND CABLE

ALL WIRING SHALL BE COLOR CODE THROUGHOUT.

ALL CONDUCTOR SHALL BE COPPER, MINIMUM NO. 12-EXCEPT CONTROL CONDUCTOR AND LIGHTING TAPS AS PERMITTED BY N.E.C. CONDUCTORS FOR SWITCHING LIGHTS SHALL BE CONSIDERED CONTROL CONDUCTORS. ALL SIZES #8 OR LARGER SHALL BE THW OR EQUIVALENT THW OR EQUIVALENT SHALL BE REQUIRED FOR HEATERS OR OTHER UL LISTED DEVICES RATED AT 75°F SUPPLY FEED.

ALL RECEPTACLES LIGHTING FIXTURES, MOTORS, ETC. SHALL BE GROUNDED.

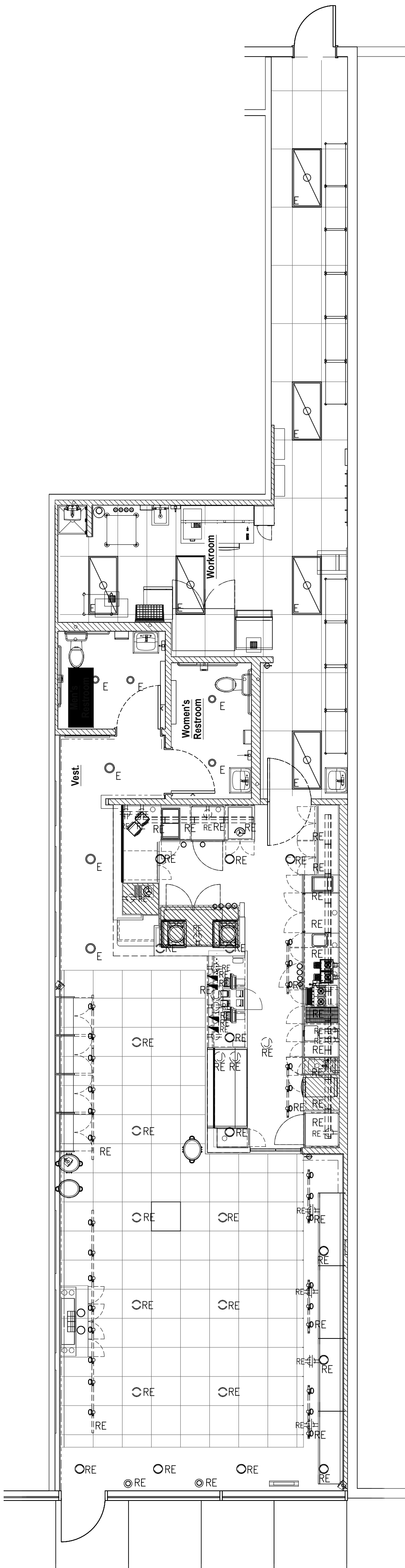
RUN MULTIPLE HOME RUNS TO ALTERNATELY NUMBERED PANEL BOARD CIRCUITS (i.e. 1, 3, 5) SERVING LIGHTING, GENERAL RECEPTACLES, AND MOTORS. ANY CIRCUITS SERVING, ISOLATED GROUND RECEPTACLES OR RECEPTACLES SERVING COMPUTER EQUIPMENT, SHALL BE RUN IN MULTIPLE HOME RUNS.

RUN MULTIPLE HOME RUNS TO ALTERNATELY NUMBERED PANEL BOARD CIRCUITS (i.e. 1, 3, 5) SERVING LIGHTING, GENERAL RECEPTACLES, AND MOTORS. ANY CIRCUITS SERVING, ISOLATED GROUND RECEPTACLES OR RECEPTACLES SERVING COMPUTER EQUIPMENT, SHALL BE RUN IN MULTIPLE HOME RUNS. CONTRACTOR SHALL OVERSIZE THE NEUTRAL CONDUCTOR TO A MINIMUM 200% OF THE CAPACITY OF PHASE CONDUCTORS OF EMT/CONDUIT ACCORDINGLY WHERE NECESSARY.

LIGHT FIXTURES

COORDINATE LIGHTING FIXTURES WITH SPRINKLERS, MECHANICAL EQUIPMENT AND ARCHITECTURAL PLAN.

PROVIDE ALL MOUNTING ATTACHMENTS FOR A COMPLETE INSTALLATION. LIGHTING FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE. LIGHTING FIXTURES SUPPORTED FROM CEILING SYSTEM OR MECHANICAL EQUIPMENT SHALL NOT BE ACCEPTED.



DEMOLITION PLAN  
SCALE: 3/16" = 1'-0"

ABBREVIATIONS:

A	AMPERES OR AMP
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CURRENT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
CB	CIRCUIT BREAKER
E	EXISTING
EC	EMPTY CONDUIT WITH PULL WIRE
ER	EXISTING TO BE RELOCATED
FLA	FULL LOAD AMP
FLUO	FLUORESCENT
FT	FEET
G/GRND	GROUND OR GROUNDING
GFI	GROUND FAULT INTERRUPTER
HP	HORSEPOWER
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLTAMPS
KW	KILOWATTS
LTS	LIGHTS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOP	MAXIMUM OVERCURRENT PROTECTION
MTG	MOUNTING
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IIN CONTRACT
NO/#	NUMBER
R	RELOCATED
RE	REMOVE
RM	ROOM
TYP	TYPICAL
U/G	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT AMP
W	WATTS
W/	WITH
WP	WEATHERPROOF

SYMBOL LIST

	INDICATES A DRAWING NOTE.
	INDICATES A ROOM NUMBER.
	WIRING AND CONDUIT CONCEALED IN CEILING OR WALL.
	EXISTING WIRING
	BRANCH CIRCUIT WIRING CONCEALED IN CEILING OR WALLS.
	CROSS MARKS AND NUMERALS INDICATE NUMBER AND SIZE OF CONDUCTORS RESPECTIVELY. 2-#12 A.W.G. NOT NOTED. PROVIDE EQUIPMENT GROUND PER N.E.C.
	RECESSED 2'X4' LED LIGHT FIXTURE
	6" DIA. RECESSED DOWNLIGHT
	6" DIA. RECESSED DOWNLIGHT, LENSED
	EXTERIOR WALL MOUNTED LIGHT FIXTURE WITH PHOTOCELL AND EMERGENCY BATTERY BACKUP
	TRACK LIGHT
	WALL/CEILING MOUNTED EXIT SIGN WITH BATTERY BACK-UP AND EMERGENCY LIGHT HEADS. SHADED AREA INDICATES LIGHTED FACE. ARROWS AS INDICATED ON DWG. WIRE TO LOCAL LIGHT CIRCUIT AHEAD OF LIGHT SWITCH.
	WALL/CEILING MOUNTED EXIT SIGN WITH BATTERY BACK-UP. SHADED AREA INDICATES LIGHTED FACE. ARROWS AS INDICATED ON DWG. WIRE TO LOCAL LIGHTING CIRCUIT AHEAD OF LIGHT SWITCH.
	WALL-MOUNTED BATTERY PACK. WIRE TO LOCAL LIGHTING CIRCUIT AHEAD OF LIGHT SWITCH.
	CEILING-MOUNTED BATTERY PACK. WIRE TO LOCAL LIGHTING CIRCUIT AHEAD OF LIGHT SWITCH.
	20A, 120V LIGHTING SWITCH MOUNTED +48" AFF UON. SUBSCRIPTS AT SWITCH SYMBOL INDICATE THE FOLLOWING: S - OCCUPANCY MOTION SENSOR LIGHT SWITCH
	CEILING MOUNTED LIGHT MOTION SENSOR
	DUPLEX RECEPTACLE: 20A-125V-2P, 3W. MOUNTING HEIGHT +18" A.F.F. UNLESS OTHERWISE NOTED. SUBSCRIPTS ADJACENT TO RECEPTACLE SYMBOL INDICATE THE FOLLOWING: GFI - GROUND FAULT INTERRUPTING
	AUDIBLE ALARM DUPLEX RECEPTACLE: 20A-125V-2P, 3W. MOUNTING HEIGHT +18" A.F.F. UNLESS OTHERWISE NOTED.
	QUADRUPLEX OUTLET (UNLESS OTHERWISE NOTED). SUBSCRIPTS ADJACENT TO OUTLET SYMBOL INDICATE THE FOLLOWING: GFI - GROUND FAULT INTERRUPTING
	DUPLEX RECEPTACLE WITH USB PORT. SUBSCRIPTS ADJACENT TO OUTLET SYMBOL INDICATE THE FOLLOWING: GFI - GROUND FAULT INTERRUPTING
	EQUIPMENT, RECEPTACLE NEMA CONFIGURATION AS SHOWN ON DRAWING.
	TELEPHONE/DATA OUTLET RING AND PULL STRING. WALL MOUNTED +18" A.F.F. UNLESS OTHERWISE NOTED ON DRAWINGS.
	CEILING POWER RECEPTACLES
	CEILING TELE/DATA RECEPTACLES
	JUNCTION BOX
	MOTOR LOAD
	FUSED DISCONNECT SWITCH SUBSCRIPT INDICATES SWITCH/FUSES
	DRY TYPE TRANSFORMER.
	PANELBOARD, 208Y120V
	GROUND CONNECTION.
	METER
	EMERGENCY FIRE SUPPRESSION MANUAL PULL STATION.
	LOCAL BELL

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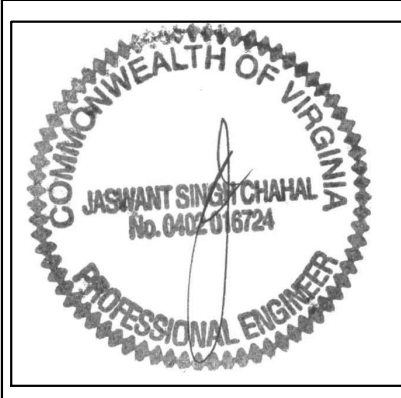
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DEMOLITION PLAN,  
NOTES AND SYMBOLS



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