

SYMBOLS LEGEND:

ABBREVIATIONS

AF	AMPERES FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AT	AMPERES TRIP
A.T.S.	AUTOMATIC TRANSFER SWITCH
CTTV	CLOSED CIRCUIT TELEVISION SYSTEM
D	DEDICATED DEVICE, REQUIRING DEDICATED CIRCUIT
ex	EXISTING TO REMAIN
extr	EXISTING RELOCATED TO LOCATION ON PLAN
FACP	FIRE ALARM CONTROL PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTERS
IG	ISOLATED GROUND
MSGB	MASTER STATION GROUND BUS
M.T.S.	MANUAL TRANSFER SWITCH
TR	TAMPER RESISTANT DEVICE
PTZ	PTZ INDICATES PAN/TILT/ZOOM
WP	DENOTES WEATHERPROOF DEVICE
XX"	INDICATES MOUNTING HEIGHT AFF IN INCHES TO CENTERLINE, EXCEPT AS NOTED

WIRING SYMBOLS

	EXISTING RACEWAY TO REMAIN
	DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
	DENOTES EXISTING EQUIPMENT OR WIRING TO BE REMOVED
	RACEWAY CONCEALED IN WALL OR ABOVE CEILING
	RACEWAY EXPOSED
	HEAVY LINE DENOTES NEW EQUIPMENT OR NEW WIRING
	LITE LINE DENOTES EXISTING EQUIPMENT OR EXISTING WIRING
	RACEWAY CONCEALED IN FLOOR SLAB, BELOW SLAB OR GRADE, OR UNDER RAISED ACCESS FLOOR

MISCELLANEOUS SYMBOLS

	CABLE TRAY
	PUSH BUTTON
	CLOCK OUTLET
	KEYNOTE SYMBOL
	RELAY
	BELL OR CHIME
	FLUSH MOUNTED EQUIPMENT AS NOTED

ONE-LINE DIAGRAM SYMBOLS

	TRANSFER SWITCH
	DRAW-OUT CIRCUIT BREAKER
	BOLT-ON CIRCUIT BREAKER
	STARTER
	COMBINATION STARTER & FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	FUSE
	NON-FUSED DISCONNECT SWITCH
	SHUNT TRIP COIL
	GROUND FAULT
	CURRENT TRANSFORMER
	UTILITY REVENUE METER
	TRANSFORMER
	GENERATOR
	MOTOR-NUMERAL INDICATES THE HORSE POWER RATING
	LUG
	VARIABLE FREQUENCY DRIVE
	GROUND
	BATTERY
	PULLBOX
	SURGE PROTECTIVE DEVICE
	NORMALLY OPEN CONTACT/CLOSES WHEN COIL ENERGIZED
	NORMALLY CLOSED CONTACT/CLOSES WHEN COIL IS ENERGIZED

	BRANCH PANEL
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LIGHTING SYMBOLS

	FLUORESCENT FIXTURE, TYPE AS NOTED
	FLUORESCENT FIXTURE, TYPE AS NOTED
	SURFACE OR PENDANT MOUNTED FIXTURE, TYPE AS NOTED
	WALL MOUNTED FIXTURE, TYPE AS NOTED
	WALL MOUNTED LUMINAIRE ON UN-SWITCHED CIRCUIT WITH EM. BATTERY BACK-UP, TYPE AS NOTED
	WALL MOUNTED LUMINAIRE ON SWITCHED CIRCUIT WITH EM. BATTERY BACK-UP, TYPE AS NOTED
	LUMINAIRE ON UN-SWITCHED CIRCUIT WITH EMERGENCY BATTERY BACK-UP, TYPE AS NOTED
	LUMINAIRE ON SWITCHED CIRCUIT WITH EMERGENCY BATTERY BACK-UP, TYPE AS NOTED
	WALL MOUNTED FIXTURE, TYPE AS NOTED
	DOWNLIGHT, DECORATIVE, SITE OR MISC. FIXTURE, TYPE AS NOTED
	WALLWASH, OR ACCENT FIXTURE, TYPE AS NOTED
	EMERGENCY BATTERY FIXTURE, TYPE AS NOTED
	WALL/CEILING MOUNTED EXIT FIXTURE - BAR INDICATES FACE ORIENTATION - PROVIDE ARROWS AS SHOWN, TYPE AS NOTED
	STEPLIGHT FIXTURE, TYPE AS NOTED
	ADJUSTABLE DIRECTIONAL FIXTURE - ARROW INDICATES DIRECTION, TYPE AS NOTED
	SINGLE POLE SWITCH
	TWO SINGLE POLE SWITCHES UNDER COMMON FACEPLATE CONNECTED FOR INNER/OUTER CONTROL OF LAMPS
	THREE WAY SWITCH
	TWO THREE-WAY SWITCHES UNDER COMMON FACEPLATE CONNECTED FOR INNER/OUTER CONTROL OF LAMPS FROM MULTIPLE LOCATIONS
	FOUR WAY SWITCH
	REMOTE SWITCH WITH LOCAL OVERRIDE
	WALL BOX DIMMER
	DIGITAL TIMER SWITCH - SET TIMER FOR 2-HOURS
	MOMENTARY CONTACT SWITCH
	OCCUPANCY SENSOR FOR LIGHTING CONTROL, TYPE AS SCHEDULED.
	360° OCCUPANCY SENSOR FOR LIGHTING CONTROL, TYPE AS SCHEDULED.
	POWER PACK - TYPE AS SCHEDULED
	PHOTO CELL
	TIME CLOCK

GROUNDING SYMBOLS

	GROUND BUS-TYPE AS NOTED
	DRIVEN GROUND ROD
	CONDUCTOR IN RACEWAY-TYPE AND SIZE AS NOTED
	BOND CONNECTION

COMMUNICATIONS SYMBOLS

	TELEPHONE OUTLET PROVIDE (1) VOICE DROP UNLESS NOTED OTHERWISE
	WALL TELEPHONE OUTLET MOUNTED 48" A.F.F. PROVIDE (1) VOICE DROP UNLESS NOTED OTHERWISE
	DATA OUTLET PROVIDE (1) DATA DROP UNLESS NOTED OTHERWISE
	COMBINATION VOICE/DATA OUTLET PROVIDE (1) VOICE DROPS AND (2) DATA DROPS UNLESS NOTED OTHERWISE
	DATA CEILING OUTLET PROVIDE (1) DATA DROP UNLESS NOTED OTHERWISE

TV SYMBOLS

	TV OUTLET
	TV CEILING OUTLET
	TV OUTLET
	TV CEILING OUTLET
	TV OUTLET
	TV CEILING OUTLET

POWER SYMBOLS

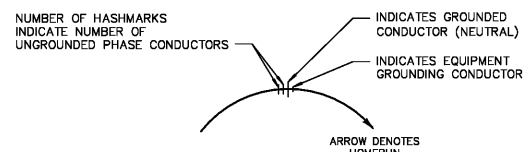
	WALL/CEILING MOUNTED LOW VOLTAGE JUNCTION BOX
	WALL/CEILING MOUNTED JUNCTION BOX - COORDINATE EXACT MOUNTING LOCATION WITH MANUFACTURER RECOMMENDATIONS AND ARCHITECT PRIOR TO ROUGH-IN, SUBSCRIPT DENOTES TYPE: • GD = GARBAGE DISPOSAL • PS = PROJECTION SCREEN
	JUNCTION BOX MOUNTED UNDER RAISED FLOOR OR CAST IN CONCRETE FLOORING. SUBSCRIPT DENOTES TYPE
	POWER AND VOICE/DATA CONNECTION
	PULLBOX
	CONDUIT STUBBED OUT ABOVE ACCESSIBLE CEILING
	SLEEVE THROUGH WALL ABOVE CEILING
	SLEEVE THROUGH FLOOR-SIZE NOTED ON PLANS
	NEW SURFACE MOUNTED PANELBOARD
	NEW FLUSH MOUNTED PANELBOARD
	EXISTING SURFACE MOUNTED PANELBOARD
	EXISTING FLUSH MOUNTED PANELBOARD
	EQUIPMENT AS NOTED
	TRANSFORMER-TYPE AND CAPACITY AS NOTED
	DISCONNECT SWITCH - TYPE AS NOTED. 30/3/F/WP INDICATES 30A, 3-POLE, F=FUSED/NF=NON-FUSED, WP=WEATHERPROOF
	COMBINATION STARTER - TYPE AS NOTED.
	MOTOR STARTER-TYPE AS NOTED.
	MOTOR
	PLYWOOD EQUIPMENT BACKBOARD
	SURFACE RACEWAY
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE CEILING MOUNTED
	DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP EXCEPT AS NOTED
	DOUBLE DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
	GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACLE
	GROUND FAULT CIRCUIT INTERRUPTER DOUBLE DUPLEX RECEPTACLE MOUNTED 8" ABOVE COUNTERTOP, EXCEPT AS NOTED
	SPECIAL PURPOSE RECEPTACLE - TYPE AS NOTED
	POKE-THRU, AFTER-SET SERVICE FITTING - TOMBSTONER TYPE FEEDING PARTITION FURNITURE. PROVIDE NUMBER OF VOICE/DATA DROPS AS INDICATED ON PLANS.
	FLUSH POKE-THRU, AFTER-SET SERVICE FITTING, TYPE AS SPECIFIED BY AV CONSULTANT. PROVIDE (1) VOICE DROPS AND (2) DATA DROPS UNLESS NOTED OTHERWISE
	CAST-IN-PLACE MULTI-SERVICE ASSEMBLY - TYPE AS SPECIFIED BY AV CONSULTANT. PROVIDE (1) VOICE DROPS AND (2) DATA DROPS UNLESS NOTED OTHERWISE
	EMERGENCY POWER OFF STATION
	MOTOR RATED SWITCH

FIRE ALARM SYMBOLS

	CEILING MOUNTED SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	CEILING MOUNTED HEAT DETECTOR
	COMBINATION AUDIBLE/VISUAL TYPE NOTIFICATION APPLIANCE-WALL MOUNTED. ADJACENT NUMBER INDICATES CANDELA RATING, 75 CANDELAS EXCEPT AS NOTED
	MANUAL PULLSTATION BENEATH NOTIFICATION APPLIANCE
	MANUAL PULL STATION
	VISUAL DEVICE-WALL MOUNTED. ADJACENT NUMBER INDICATES CANDELA RATING, 75 CANDELAS EXCEPT AS NOTED.
	MONITOR MODULE ADDRESSABLE MODULE
	CONTROL MODULE ADDRESSABLE MODULE
	REMOTE ANNUNCIATOR PANEL
	FLUSH MOUNTED REMOTE ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	FLUSH MOUNTED FIRE ALARM CONTROL PANEL

GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE ALL LABOR, TOOLS, AND MATERIAL REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION, AS DESCRIBED ON THE DRAWINGS.
- CONTRACTOR'S WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
- CONTRACTOR SHALL COMPLY WITH LOCAL CODES ENFORCED BY THE LOCAL INSPECTION AUTHORITY.
- CONTRACTOR SHALL COMPLY WITH THE EDITION OF THE NATIONAL ELECTRICAL CODE BEING ENFORCED FOR THIS PROJECT BY THE LOCAL INSPECTION AUTHORITY.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND ORDINANCES.
- CONTRACTOR SHALL PROVIDE ALL NEW MATERIALS THAT COMPLY WITH THE INDICATED STANDARDS.
- ALL MATERIALS PROVIDED SHALL BE U/L LABELED OR U/L LISTED, EXCEPT WHERE THE MATERIAL IS OF A TYPE NOT INCLUDED IN THE U/L LISTING SERVICE, IN WHICH CASE THE MATERIAL SHALL COMPLY WITH OTHER APPLICABLE INDUSTRY STANDARDS AND THE CONTRACTOR SHALL PROVIDE ANY EXAMINATIONS OR CERTIFICATIONS REQUIRED BY THE LOCAL INSPECTION AUTHORITY IN LIEU OF U/L LISTINGS.
- ALL MATERIAL SHALL BE OF A SUITABLE TYPE AND RATED FOR THE INTENDED USE, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER.
- THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL OF THE REQUIRED DETAILS OF THE WORK. ALL MATERIALS CUSTOMARILY CONSIDERED TO BE A PART OF THE ELECTRICAL INSTALLATION AND REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.
- NO WORK IN HATCHED AREAS UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES OF DEVICES AND LIGHT FIXTURES. IF CONFLICTING LOCATIONS OR QUANTITIES ARE INDICATED THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. IF CONFLICTING LOCATIONS ARE INDICATED THE MECHANICAL DRAWINGS TAKE PRECEDENCE.
- CONTRACTOR SHALL PROVIDE FINAL ELECTRICAL CONNECTIONS FOR ALL FURNITURE BASE FEEDS. FURNITURE ELECTRICAL WHIPS AND POWER-POLES SHALL BE PROVIDED BY TENANT'S FURNITURE VENDOR, UNLESS NOTED OTHERWISE. WORKSTATIONS SHOWN FOR REPRESENTATIONAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE WITH TENANT'S FURNITURE VENDOR FOR EXACT LOCATION OF WORKSTATIONS AND CORRESPONDING POWER COMMUNICATION DEVICES TO ROUGH-IN.
- THE OWNER ASSUMES ALL RESPONSIBILITY FOR THEIR OWN LOW VOLTAGE VOICE/DATA VENDOR/CONTRACTOR. COMMUNICATION DEVICES AND WIRING SHALL MEET ALL APPLICABLE CODES, AS WELL AS GWINNETT COUNTY IT STANDARDS. THE OWNER'S LOW VOLTAGE VOICE/DATA CONTRACTOR, WHICH SHALL PERFORM THEIR WORK SEPARATELY, MUST HANG ALL CABLES FROM DEDICATED WIRE CHANGERS ATTACHED TO THE SLAB. VOICE/DATA WIRING SHALL CONFORM TO NFPA 70-2017 (NFPA (UL 910) PLENUM RATED CABLE).
- SCALE OF DRAWINGS - MEASUREMENTS AND/OR LOCATIONS SHALL NOT BE SCALED FROM THE CONSTRUCTION DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- UNLESS NOTED OR SPECIFIED OTHERWISE ALL EXTERIOR CONDUIT (BELOW GRADE) SHALL BE PVC SCHEDULE 40 ALL EXTERIOR CONDUIT (ABOVE GRADE) SHALL BE RIGID GALVANIZED STEEL WITH THREADED FITTINGS.
- ALL WIRE DEVICE PLACEMENTS NO BACK TO BACK OR SAME STUD CAVITY. ALL DEVICES OF RECESSED WALL DEVICES - REFER TO ARCHITECTURAL SOUND WALL DRAWINGS FOR ADDITIONAL DEVICE INSTALLATION REQUIREMENTS FOR ALL SOUND WALLS.



- NOTES:**
- NO HASHMARKS INDICATE (1) UNGROUNDED PHASE CONDUCTOR, (1) GROUNDED CONDUCTOR (NEUTRAL), AND (1) EQUIPMENT GROUNDING CONDUCTOR IN 1/2" CONDUIT.
 - 15A & 20A MULTI-WIRE CIRCUITS WITH A COMMON GROUNDED CONDUCTOR (NEUTRAL) SHALL BE PROVIDED WITH A #10 AWG GROUNDED CONDUCTOR (NEUTRAL).

WIRING SYMBOLOGY - DETAIL

SCALE: N.T.S

DEMOLITION NOTES:

- THE ARCHITECTURAL DRAWINGS SHOW THE GENERAL EXTENT OF THE DEMOLITION WORK REQUIRED. THE DRAWINGS DO NOT NECESSARILY SHOW EVERYTHING TO BE REMOVED IN PREPARATION FOR NEW CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE EXACT CONDITIONS AND EXTENT OF EXISTING CONSTRUCTION TO BE REMOVED DURING THE SITE INSPECTION.
- ALL DEMOLITION/CONSTRUCTION IS TO BE DONE IN AN ORDERLY MANNER.
- DURING THE PROCESS OF DEMOLITION, THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXITS AND RATED CORRIDORS, AS REQUIRED, BY CODE FOR EMERGENCY EXITING.
- ALL MEASURES NECESSARY TO ASSURE THE SAFE DEMOLITION OF ALL AREAS INDICATED ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR INFORMING THE OWNER/ARCHITECT OF ANY HAZARDOUS MATERIAL ENCOUNTERED DURING DEMOLITION AND/OR CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT THE EXISTING TO REMAIN OWNER'S PROPERTY.
- THE CONTRACTOR SHALL REPAIR ALL DAMAGE DUE TO DEMOLITION/CONSTRUCTION WORK.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT EXISTING FIXTURES/EQUIPMENT TO BE RELOCATED.
- THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND DISCONNECT MOTORS, HEATERS, AND/OR OTHER EQUIPMENT AS REQUIRED, FOR THE DEMOLITION OF OTHER TRADES WORK. CUT OFF ALL IN FLOOR CONDUIT GRIND SMOOTH WITH FLOOR AND PREPARE FOR PATCHING BY OTHERS. REMOVE CONDUCTORS AND DEVICES FROM WALL AND CEILING OUTLETS AND PREPARE WALL FOR PATCHING BY OTHERS. CONTRACTOR SHALL DENOTE ALL DEMISED CIRCUITS ON EXISTING PANEL DIRECTORIES AND MARK ALL SPARE BREAKERS.
- THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY AND CONTINUITY OF ALL EXISTING FEEDERS AND BRANCH CIRCUITS FEEDING THE AREAS OF THE BUILDING THAT ARE NOT WITHIN THE PROJECT'S SCOPE OF WORK, AS DEFINED BY THE ARCHITECT.
- THE CONTRACTOR SHALL REMOVE ALL DEVICES LOCATED IN WALLS, SCHEDULED TO BE REMOVED BY THE ARCHITECT, ALONG WITH ALL ASSOCIATED RACEWAY AND WIRE BACK TO THE PANEL OF ORIGIN.
- THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES IN AREAS, AS SCHEDULED BY THE ARCHITECT FOR LIGHT REMOVAL, ALONG WITH ALL ASSOCIATED WIRE AND RACEWAY BACK TO THE PANEL OF ORIGIN.
- REMOVE EXISTING LIGHT FIXTURES AS NECESSARY TO ACCOMMODATE NEW LIGHTING LAYOUT. SALVAGE EXISTING FIXTURES FOR RE-USE IF IN PROPER WORKING CONDITION AND MEET BUILDING STANDARD. OFFER EXCESS TO LANDLORD FOR ATTIC STOCK.
- ALL FIRE ALARM DEVICES AND EXIT FIXTURES SHALL BE SALVAGED FOR RELOCATION, IF IN PROPER WORKING ORDER AND MEET BUILDING STANDARD. OFFER EXCESS TO OWNER FOR ATTIC STOCK.
- THE CONTRACTOR SHALL REMOVE ALL ABANDONED VOICE/DATA CABLING, ELECTRICAL WIRING AND CONDUIT BACK TO THE POINT OF ORIGIN.
- THE CONTRACTOR MUST PATCH ALL EMPTY WALL PENETRATIONS THROUGH DEMISING WALLS CREATED BY REMOVING ABANDONED CABLING, WIRING AND CONDUIT.
- REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- ALL FIXTURES SCHEDULED FOR DEMOLITION SHALL BE DISASSEMBLED INTO THE FOLLOWING PARTS FOR RECYCLING:
 - BALLAST
 - CCF-BULBS
 - BATTERIES
 - METAL
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING RECYCLE CONTAINERS FOR THE CCF-BULBS, BATTERIES AND BALLAST. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROVIDING PROPER RECYCLING OF ALL MATERIALS REQUIRED TO BE RECYCLED AS PART OF THIS PROJECT. THE CONTRACTOR SHALL PROVIDE PROOF OF RECYCLING VIA RECEIPTS FROM RECYCLING CENTER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCRAPING ALL OTHER MATERIAL.
- THE CONTRACTOR SHALL REMOVE ALL ASSOCIATED INDICATOR LIGHTS FOR ALL FIXTURES SCHEDULED FOR DEMOLITION.

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SYMBOLS LEGEND & NOTES

DATE: 02/04/19

NO. DESCRIPTION: RELEASED FOR BID

DESIGN: R/VG

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SHEET TITLE

RELEASE

E1.0

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