

**LV- ABBREVIATIONS**

A	AMPERES
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BCT	BUILDING CONDUCTOR - TELECOM
BD	BUILDING DISTRIBUTER
C	CONDUIT
CAN	CAMPUS AREA NETWORK
CCTV	CLOSED CIRCUIT TELEVISION
CD	CAMPUS DISTRIBUTER
CMF	COMMUNICATIONS MEDIA FLENUM
CMR	COMMUNICATIONS MEDIA RISER
DAS	DISTRIBUTED ANTENNA SYSTEM
DPS	DOOR POSITION SWITCH
DV	DIVISION
EC	ELECTRICAL CONTRACTOR
EG	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FC	FIXED CAMERA
FD	FLOOR DISTRIBUTER
FO	FIBER OPTIC
GC	GENERAL CONTRACTOR
IDF	INTERMEDIATE DISTRIBUTION FACILITY (FRAME)
LAN	LOCAL AREA NETWORK
LC	LUCENT CONNECTOR FIBER OPTIC CONNECTOR FORM FACTOR
MDF	MAIN DISTRIBUTION FACILITY (FRAME)
MM	MULTI-MODE
MPOE	MAIN POINT OF ENTRY
NTS	NOT TO SCALE
PACS	PHYSICAL ACCESS CONTROL SYSTEM
POE	POWER OVER ETHERNET
PROVIDE	TURNING AND INSTALL
PT	POWER THROUGH DEVICE
RGS	RIGID GALVANIZED STEEL
RMS	EIGHT POSITION MODULAR PLUG AND JACK UTILIZED FOR TWISTED-PAIR CABLE CONNECTIONS
SC	(SUB)CONNECTOR FIBER OPTIC CONNECTOR FORM FACTOR
SM	SINGLE-MODE
ST	(STRAIGHT TIP) FIBER OPTIC CONNECTOR FORM FACTOR
STP	SHIELDED TWISTED PAIR
TBB	TELECOM BONDING BACKBONE
TBC	TELECOM BONDING CONDUCTOR
TBD	TO BE DETERMINED
TGB	TELECOM GROUNDING BUSBAR
TMSB	TELECOM MAIN GROUNDING BUSBAR
TR	TELECOM ROOM
TYP	TYPICAL
UNO	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VOP	VOICE OVER INTERNET PROTOCOL
VOLTS	VOLTS
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WP	WEATHER-PROOF

**TELECOMMUNICATION GENERAL NOTES**

- PRIOR TO PERFORMING WORK, NOTIFY ARCHITECT OF OBSERVATIONS OR CONDITIONS DISCOVERED THAT WOULD PREVENT COMPLETION OF THE WORK PER THE DRAWINGS AND SPECIFICATIONS.
- THE WORK, INCLUDING MATERIALS AND METHODS SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE GOVERNING LAWS, ORDINANCE, AND REGULATIONS OF ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS. NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO A GOVERNING LAW, ORDINANCE, OR REGULATION.
- THE TECHNOLOGY DRAWINGS ARE PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF DRAWINGS INDICATED BY THE ARCHITECT'S INDEX OF DRAWINGS. THE WORK DESCRIBED BY THE DRAWINGS OF OTHER DISCIPLINES MAY BE AFFECTED BY THE WORK AND REQUIREMENTS DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR, MANAGER, SUPERVISOR, REVIEWER, AND COORDINATE THE WORK OF SUB-CONTRACTORS, TRADES, AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION. ENSURE ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF REQUIREMENTS AND UPDATED DRAWING AND SPECIFICATIONS ISSUANCES.
- INSTALL TELECOMMUNICATIONS DEVICES AT HEIGHTS NOTED ON DRAWINGS OR DEVICE SCHEDULE UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR DETAILED INFORMATION.
- ALL MATERIAL SHALL BE UL LISTED PER ITS USE.
- TELECOM CONTRACTOR SHALL COMPLY WITH THE NFPA, NEC, BICSI TDM-1, EIA/TIA, UL, ANSI, FCC, OSHA, AND STANDARD STATE AND LOCAL CODES AND REQUIREMENTS FOR THE INSTALLATION OF THE TELECOMMUNICATIONS CABLE AND EQUIPMENT.
- WHERE CONFLICTS EXIST BETWEEN SPECIFICATIONS AND DRAWINGS THE HIGHER COUNT OR MOST STRINGENT REQUIREMENT SHALL BE USED.
- NO WORK SHALL COMMENCE WITHOUT THE NOTICE TO PROCEED BY THE GENERAL CONTRACTOR AND ARCHITECT.
- TELECOM CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND SHALL NOT INHIBIT THE CONSTRUCTION OF OTHER TRADES.
- ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER AND IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- THE TELECOM CONTRACTOR SHALL KEEP THEIR AREA OF WORK CLEAN OF ANY DEBRIS RESULTING FROM THEIR WORK ON A DAILY BASIS.
- THE TELECOM CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY OBSERVED HEALTH AND SAFETY CONCERNS ON THE WORK SITE.

**TELECOMMUNICATION CABLE NOTES**

- ALL CABLES ROUTED BELOW GRADE OR IN SLAB ON GRADE SHALL BE OUTSIDE PLANT RATED FOR WET ENVIRONMENTS. CONTRACTOR TO TRANSITION TO PLENUM RATED CABLE BEFORE ENTERING CEILING SPACE.
- ALL ITEMS AND CABLING INSTALLED WITHOUT CONDUIT AND ABOVE GRADE SHALL BE CMP (PLENUM RATED) AND LISTED FOR THE INTENDED USE.
- CEILING MOUNTED DATA OUTLETS ARE RESERVED FOR WIRELESS ACCESS POINTS UNLESS NOTED OTHERWISE.
- SUFFICIENT EXCESS CABLE SHALL BE PROVIDED IN 'SERVICE LOOP LOCATIONS' TO ENSURE THAT THE ASSOCIATED CONNECTOR CAN BE REPLACED IF NEEDED WITHOUT REQUIRING THE ADDITION OF EXTENSION PIECES UNLESS OTHER WISE NOTED ON THE DRAWINGS.
  - A. TELECOM ROOMS - 10' FOR BOTH FIBER AND TWISTED PAIR
  - B. TELECOM OUTLETS - 3' FOR FIBER AND 1' FOR TWISTED PAIR
- CABLE BREAK-OUTS SHALL BE AT 90° ANGLES FROM THE HARNESS OR CHASE, AND ALL CHASES SHALL BE PARALLEL TO, OR AT 90° ANGLES FROM THE RACK FRAME.
- CABLES ARE TO BE SECURED TO THE RACK FRAMES AT SUFFICIENT INTERVALS TO PREVENT THE WEIGHT OF THE CABLE FROM CONTRIBUTING TO FATIGUE OR EARLY FAILURE OF THAT CABLE OR THE DEVICE AND CONNECTOR TO WHICH IT IS ATTACHED.
- CAT-6 AND FIBER OPTIC CABLES SHALL UTILIZE VELCRO FASTENERS IN PLACE OF TY-WRAPS TO ELIMINATE THE RISK OF OVER-TIGHTENING CABLE BUNDLES AND AFFECTING THE STRENGTH OR RATED PERFORMANCE OF THE CABLE.
- WHERE WIRING IS ROUTED THROUGH SHEET METAL OR OVER FRAME MEMBERS, THE METAL EDGES SHALL BE COVERED WITH FLEXIBLE GROMMETTING OR EDGE DRESSING (SUCH AS AUTOMOBILE DOOR EDGE TRIM).
- ROUTE TELECOMMUNICATIONS CABLES PERPENDICULAR OR PARALLEL TO BUILDING COLUMN LINES.
- LABEL TELECOMMUNICATIONS CABLES ACCORDING TO TIA-606-C AND TELECOM DETAIL SHEETS. PROVIDE SAMPLE LABELS TO THE OWNER OR OWNER'S REPRESENTATIVE.
- ALL CABLING SHALL BE INSTALLED WITH-OUT SPLICES OR FIELD REPAIRS.
- CABLING SHALL BE KEPT IN A DRY PLACE AS INDICATED BY THE MANUFACTURER. FIBEROPTIC FACTORY SPOOL TEST TO BE KEPT FOR RECORD.
- TWISTED PAIR HORIZONTAL CABLE SHALL NOT EXCEED 290°

**TELECOMMUNICATION RENOVATION NOTES**

- CONTRACTOR SHALL VERIFY ALL EXISTING EQUIPMENT AND LOCATIONS BEFORE BEGINNING WORK FOR ALL EXISTING STRUCTURES.
- REMOVAL OF EXISTING HARDWARE SHALL BE PERFORMED IN A NON-DESTRUCTIVE MANNER AS TO PRESERVE THE FUNCTIONALITY OF THE EQUIPMENT.
- CONDUIT FOR EQUIPMENT THAT IS NOT TO BE REPLACED SHALL BE REMOVED COMPLETELY, TO THE HEAD-END/CONTROL PANEL OR J-BOX IF SHARED.
- REMOVED CABLING AND CONDUIT SHALL BE PROPERLY RECYCLED ACCORDING TO ALL LOCAL AND PROJECT CODES FOR SUCH MATERIALS.

SEE LEGEND SHEET FOR PROJECT REQUIREMENTS

**PHYSICAL ACCESS CONTROL GENERAL NOTES**

- ALL INDOOR CABLE SHALL BE PLENUM JACKETED; ALL EXTERIOR CABLE SHALL BE WET LOCATION RATED.
- ALL CABLE SHALL BE LABELED ON BOTH ENDS. LABELING SHALL INDICATE CONNECTED DEVICE AND CONTROL PANEL LOCATION. WHERE CARD READERS ARE ADDRESSED PROVIDE A CARD READER ADDRESS IN THE LABEL.
- EXPOSED ACCESS CONTROL CONDUIT BELOW 15' AFF SHALL BE IMC.
- ALL CARD READERS, AND JUNCTION BOXES ASSOCIATED WITH THE PHYSICAL ACCESS CONTROL SYSTEM SHALL BE INSTALLED WITH SECURITY SCREWS BELOW 15' AFF.
- PRIMARY CONTROLLERS SHALL BE LOCATED AS INDICATED ON PLANS, INSTALLING PRIMARY CONTROL PANELS ABOVE DROP CEILING IS NOT ALLOWED.
- EXTERIOR MOUNTED CARD READER BACK BOXES SHALL BE RECESSED INTO THE WALL WHEN POSSIBLE. WHERE NOT POSSIBLE TO RECESS, SURFACE MOUNT BOXES SHALL BE CAST TYPE WITH GASKET.
- COORDINATE WITH DOOR HARDWARE CONSULTANT AND ARCHITECT FOR DOOR HARDWARE TYPE AND COUNTS.
- DOOR FRAME PENETRATIONS FOR CABLE SHALL BE INSTALLED WITH A GROMMET.
- ALL ACCESS CONTROL SYSTEMS SHALL BE COORDINATED WITH THE FIRE ALARM SYSTEM; COORDINATE WITH ARCHITECT FOR DOORS TO FAIL SECURE.
- COORDINATE WITH OWNER FOR DOOR PROGRAMMING. REFER TO SPECIFICATION OF TRAINING REQUIREMENTS.

**CCTV GENERAL NOTES (SEE LEGEND SHEET FOR PROJECT SCOPE)**

- THE LAYOUT OF EQUIPMENT SHOWN ON ANY SITE-SPECIFIC DRAWINGS UTILIZED IN THE INSTALLATION OF ANY SYSTEMS ARE DIAGNOSTIC ONLY. EXACT POSITIONS SHALL BE DETERMINED ON SITE TO THE APPROVAL OF THE ARCHITECT AND OWNER'S REPRESENTATIVE. CAMERA LOCATIONS MAY VARY UP TO TEN (0) FEET FROM THE PLANNED LOCATION WITHOUT INCURRING ADDITIONAL COST PROVIDING THE CHANGE IS DOCUMENTED AND APPROVED BEFORE THE EQUIPMENT IS INSTALLED.
- THE USE OF EXCESS CABLE EXCEEDING THE SERVICE LOOP REQUIREMENTS TO MEET ACCOMMODATE THE TEN (0) FOOT FLEXIBILITY IS NOT APPROVED.
- COORDINATE WITH THE CAMERA SCHEDULE AND ARCHITECT FOR EXACT MOUNTING PARAMETERS.
- ENSURE THAT CAMERAS ARE HUNG FROM STABLE, VIBRATION FREE MOUNTING PLATFORMS, USING GUY-WIRES OR OTHER SUPPORTS AND ISOLATION MECHANISMS WHERE REQUIRED.
- CAMERAS SHALL BE MOUNTED IN SUCH A MANNER AS TO PRECLUDE INTERFERENCE AND VIBRATION FROM MECHANICAL EQUIPMENT OR OTHER DEVICES THAT MAY INDUCE VIBRATION.
- ALL MOUNTS SHALL INCORPORATE INSTALLER PROVIDED SAFETY CHAIN OR CABLE OF SUFFICIENT ENDURANCE ATTACHED TO STRUCTURE MEMBER IF A DEVICE WEIGHT IS GREATER THAN FIVE (5) POUNDS. THIS SUPPORT SHALL BE CAPABLE OF SUPPORTING FIVE (5) TIMES THE WEIGHT OF THE EQUIPMENT. ROOF MOUNTED PARAPET STYLE MOUNTS SHALL UTILIZE SWING OUT MOUNTING ARMS TO ALLOW SERVICING OF THE CAMERA FROM THE ROOF WITH OUT THE USE OF LIFTS OR LADDERS.
- CAMERA VIEWS SHALL BE COORDINATED WITH THE OWNER. REFER TO SPECIFICATIONS FOR TRAINING REQUIREMENTS.
- REFER TO COMMUNICATIONS GENERAL NOTES FOR CAMERA CABLING REQUIREMENTS.
- ALL FIXED CAMERAS REQUIRE POE U.O.N. OR WHEN PROVIDED WITH AN IR ILLUMINATOR THEN WILL REQUIRE POE. ALL MULTI-SENSOR AND PTZ CAMERA REQUIRE POE+ U.O.N. PROVIDE A POE BUDGET FOR EACH CCTV SWITCH WITH AS-BUILT DRAWINGS.
- ALL DATA TERMINATIONS PROVIDED BY TELECOM CONTRACTOR U.O.N.
- ALL PATHWAY SYSTEMS PROVIDED BY ELECTRICAL CONTRACTOR U.O.N.
- EXTERIOR CAMERAS SHALL BE PROVIDED WITH SURGE PROTECTION DEVICES (SPD) AT BOTH ENDS OF THE CHANNEL. SPD BONDING POINT PROVIDED BY ELECTRICAL CONTRACTOR, TELECOM CONTRACTOR SHALL PROVIDE SPD DEVICE EXTERIOR CAMERAS DESIGNATED 'BLUE-SKY' SHALL REQUIRE FIBER TRANSMISSION BACK TO THE HEAD END OR NODE.

**TELECOMMUNICATION PATHWAY NOTES**

- ALL TELECOM CABLE SHALL BE INSTALLED IN APPROVED SUPPORT SYSTEMS AS INDICATED ON THE DRAWINGS. CABLE SHALL BE SUPPORTED IN INTERVALS NOT TO EXCEED 60" OR AS INDICATED ON DRAWING DETAILS. ALL EXPOSED CABLE SHALL BE ENCLOSED IN STEEL RACEWAY, UTILIZE INTERMEDIATE METAL CONDUIT (IMC) FOR RACEWAY SUBJECT TO HARSH TREATMENT. EXTERIOR EXPOSED RACEWAY SHALL BE IMC AT ALL HEIGHTS.
- COORDINATE THE INSTALLATION OF CONDUITS AND CABLE TRAYS WITH THE OTHER COMPONENTS INSTALLED WITHIN THE CEILING. PREPARE SHOP DRAWINGS TO DEMONSTRATE AND ENSURE THE PROPER INSTALLATION OF ALL COMPONENTS. CONDUIT ROUTING IS DIAGNOSTIC IN NATURE. FIELD DETERMINE CONDUIT ROUTES PER CONDITIONS WHILE CONFORMING TO THE SPECIFICATIONS. CONDUIT ROUTING DEVIATING FROM DRAWINGS SHALL BE INDICATED ON SHOP DRAWINGS. COORDINATE ROUTING WITH ALL TRADES.
- INSTALL PATHWAYS PER TIA/EIA-569-B, NATIONAL ELECTRIC CODE (NEC) AND THE TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL (TDM-1).
- INSTALL PATHWAYS ACCORDING TO STATE AND LOCAL CODES FOR SEISMIC BRACING.
- SEAL ALL BELOW GRADE CONDUITS ENTERING EQUIPMENT ROOMS AFTER CABLES HAVE BEEN INSTALLED IN ORDER TO PREVENT WATER INTRUSION.
- PROVIDE DEDICATED CONDUIT STUB-UP PER TELECOMMUNICATIONS OUTLET. TELECOMMUNICATIONS OUTLETS MAY NOT BE INSTALLED IN SERIES UNLESS OTHERWISE NOTED.
- MAINTAIN MINIMUM BEND RADIUS OF 10X O.D. FOR CONDUITS GREATER THAN 2" DIAMETER. MAINTAIN MINIMUM BEND RADIUS OF 6X O.D. FOR CONDUITS EQUAL TO OR LESS THAN 2" DIAMETER.
- PROVIDE PULL BOXES (SIZE AS NOTED) AFTER EVERY 180° OF CONDUIT RUN OR AFTER EVERY 180° OF BEND OR AFTER EVERY 50' OF VERTICAL RUN. DO NOT INSTALL PULL BOXES IN LIEU OF A BEND. REAM AND BUSH THE ENDS OF ALL CONDUITS. CONDULET LB1 FITTINGS SHALL NOT BE INSTALLED IN LIEU OF A PULL BOX.
- PROVIDE AND LEAVE IN PLACE A PULL STRING IN EACH EMPTY CONDUIT.
- STUB UP CONDUIT SLEEVES THROUGH SLABS 3" ABOVE FINISHED FLOORS.
- PROVIDE AT ALL LADDER RACK LOCATIONS: RUNWAY DROPOFFS, SPLICE HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, TERMINATION KITS, END SUPPORT KITS AND CEILING SUPPORT HARDWARE.
- FOR ALL CABLE TRAYS, PROVIDE CONNECTION HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, SUPPORT BRACKETS AND CEILING SUPPORT HARDWARE.
- PROVIDE CONDUIT EXPANSION FITTINGS AT CONDUIT OVER STRUCTURAL EXPANSION JOINTS.
- WHERE CABLE IS RUN ABOVE NON-ACCESSIBLE (E. GYP/PLM BOARD) CEILING CONSTRUCTION, CONDUIT AND PULLBOXES MUST BE INSTALLED TO PROPERLY ROUTE CABLE. PULLBOXES MUST BE LOCATED SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS PANEL(S) IN CEILING AS REQUIRED. PROVIDE J-HOOKS AND CABLE STRAPS TO SUPPORT CABLE ABOVE ACCESSIBLE CEILING CONSTRUCTION, EXCEPT IN AREAS WHERE CABLE TRAY OR CONDUIT IS INDICATED. COORDINATE PULLBOXES WITH INTERIOR CONTRACTOR AS REQUIRED. SIZE CONDUITS TO 40% FILL. MIN 1/2" CONDUIT.

**TELECOMMUNICATION SPACE NOTES**

- WHERE DIRECT RACK MOUNTING CONFIGURATION IS NOT AVAILABLE, EQUIPMENT SHALL BE MOUNTED ON STEEL RACK-MOUNT SHELVING OF SUFFICIENT STRENGTH AND ENDURANCE TO SUPPORT THE WEIGHT OF THE EQUIPMENT MULTIPLIED BY A FACTOR OF TEN (10).
- ALL HARDWARE USED TO SECURE EQUIPMENT TO RACKING SHALL INCLUDE A NYLON OR OTHER NON-METALLIC WASHER OR GROMMET BETWEEN THE SCREW HEAD AND EQUIPMENT PANEL TO PREVENT ANY DAMAGE TO THE EQUIPMENT. INSTALL EQUIPMENT ACCORDING TO STATE AND LOCAL CODES FOR SEISMIC BRACING.
- RACK MOUNT SCREWS SHALL BE SELF-CENTERING PHILLIPS-HEAD CONFIGURATION UNLESS SPECIALIZED TAMPER-RESISTANT HARDWARE HAS BEEN SPECIFIED. SCREWS SHALL BE TIGHTENED IN SUCH A MANNER AS TO ALLOW THEIR REMOVAL WITH COMMON HAND TOOLS.
- ALL RACKS AND SHELVING SHALL BE LEVEL. PROVIDE SHIMS RATED FOR USE TO LEVEL EQUIPMENT, ENSURE SEISMIC OR STRUCTURAL RATING OF THE RACK IS NOT CHANGED.
- ALL EQUIPMENT CABLING SHALL BE DRESSED IN SUCH A MANNER AS TO ENSURE A NEAT AND CLEAN APPEARANCE.
- DOUBLE-SIDED FOAM TAPE SHALL NOT BE USED TO SECURE ANY EQUIPMENT, TERMINAL BLOCKS, OR ACCESSORY DEVICES. ALL DEVICE MOUNTING SHALL BE OF A PERMANENT NATURE.
- ALL EXCESS LENGTH AC CORDS ARE TO BE TIE-WRAPPED OUT OF THE WAY. WHERE POSSIBLE, THEY SHALL BE ROUTED IN A SEPARATE BUNDLE A MINIMUM OF SIX (6) INCHES AWAY FROM ANY SIGNAL OR CONTROL CABLE.
- WIRING USED TO INTERCONNECT COMPONENTS OR EQUIPMENT WITHIN A VERTICAL RACK OR CONSOLE MAY NOT PROTRUDE OUTSIDE OF THE RACK FRAME.
- ALL SURFACE MOUNTED PANELS AND ENCLOSURES ON THE INSIDE OF THE EXTERIOR WALLS ABOVE GRADE, OR IN OTHER LOCATIONS CONSIDERED AS DAMP, SHALL BE MOUNTED SO AS TO MAINTAIN A 1/4" AIR SPACE BETWEEN THE ENCLOSURE AND THE WALL.
- EQUIPMENT SHALL BE SPACED ACCURATELY AND SYMMETRICALLY WITHIN ROOMS.
- WHERE EQUIPMENT ITEMS ARE IN CLOSE PROXIMITY, THEY SHALL BE ALIGNED HORIZONTALLY AND/OR VERTICALLY AS REQUIRED.
- EQUIPMENT ITEMS SHALL BE SYMMETRICALLY LOCATED IN RELATION TO OTHER EQUIPMENT AND DEVICES, THE ROOM MODULE, AND GENERAL AESTHETIC TREATMENT.
- LOW VOLTAGE WIRING SHALL BE RUN IN CABLE LOOP ASSEMBLIES, CONDUIT, OR CABLE TRAY WITH A SPACING THAT WILL NOT COMPROMISE TRANSMISSION. USE OF BRIDLE RINGS OR TIE-WRAPPING CABLE TO BEAMS IS NOT ACCEPTABLE.
- INSTALL FIRESTOP TO ALL WALL PENETRATIONS PROVIDED FOR THE INSTALLATION OF TELECOMMUNICATIONS CABLE AS REQUIRED TO MAINTAIN FIRE RATINGS OF WALL. REVIEW ARCHITECT'S PLANS FOR PARTITION TYPES AND RATINGS. MAINTAIN SAME PRODUCT THROUGHOUT PROJECT WHEN POSSIBLE.
- COORDINATE WALL BOX LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL AND ELECTRICAL PLANS.

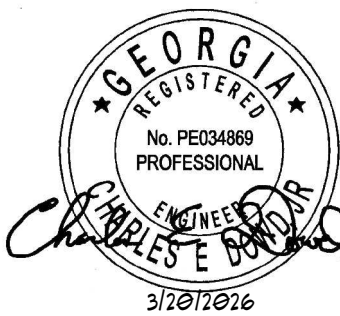
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THESE PLANS ARE COMPLEMENTARY. THEREFORE THE CONTRACTOR SHALL SEE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS AND SPECIFICATIONS, WHEN REQUIRED BY ANY ONE SHALL BE BINDING AS REQUIRED BY ALL THE INTENTION OF THE DOCUMENTS. THESE PLANS, MATERIALS, MATERIALS, EQUIPMENT AND OTHER ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE WORK OF ALL TRADES.

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