GENERAL CONDUIT PATHWAYS NOTE

RUN ALL CABLING IN CONDUIT PATHWAYS AS INDICATED, EXCEPT WHERE CONTRACTOR ELECTS TO INSTALL ADDITIONAL CONDUIT NOT INDICATED ON DRAWINGS. THE CONTRACTOR AGREES TO USE THE CONDUIT SYSTEM AS SHOWN, OR SHALL PROVIDE ADDITIONAL CONDUIT (AT NO ADDITIONAL COST TO THE OWNER) AS REQUIRED TO PROPERLY INSTALL ALL CABLING INDICATED, WITHOUT DAMAGE TO CABLING. THE ENTIRE CABLING PLANT SHALL BE TESTED TO THE REQUIREMENTS OF THE SPECIFICATIONS FOR THIS PROJECT AND SHALL BE CERTIFIED BY THE CONTRACTOR. ALL CONDUIT SHALL CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.

GENERAL UNDERGROUND CONDUIT NOTES:

1. LOCATION AND ROUTING OF NEW UNDERGROUND CONDUIT IS APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE FINAL LOCATION AND ROUTING OF CONDUIT TO AVOID CONFLICTS WITH BURIED UTILITIES AND OTHER OBSTRUCTIONS. SIGNIFICANT CHANGES TO CONDUIT ROUTING SHALL REQUIRE THE APPROVAL OF THE ENGINEER.
2. ALL BURIED CONDUIT SHALL BE SCHEDULE 80 ELECTRICAL GRADE PVC CONDUIT. ALL PVC CONDUIT JOINTS SHALL BE CLEANED AND GLUED FOR A WATERTIGHT CONNECTION. TERMINATE ENDS OF PVC CONDUIT AT CLOSETS AND HANDHOLES WITH END BELLS.
3. SEAL ALL UNDERGROUND CONDUITS WATERTIGHT AT ALL HANDHOLE EXITS AND AT ALL BUILDING ENTRY POINTS FOLLOWING CABLE INSTALLATION TO PREVENT THE ENTRY OF WATER INTO BUILDINGS, AND TO PREVENT THE ENTRY OF WATER OR DEBRIS INTO THE CONDUITS FROM THE BUILDING OR HANDHOLES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING BURIED UTILITIES PRIOR TO COMMENCING ANY EXCAVATION REQUIRED FOR WORK UNDER THE PROJECT. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITIES THAT OCCURS AS A RESULT OF OPERATIONS PERFORMED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER. REPAIRS SHALL BE MADE USING MATERIALS & METHODS TO MATCH EXISTING CONSTRUCTION AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO RE-COVERING.
5. LOCATION OF HANDHOLES SHOWN IS INTENDED TO PLACE HANDHOLES IN ACCESSIBLE SODDED, PLANTED OR PAVED AREAS. COORDINATE LOCATIONS WITH DRAINAGE STRUCTURES, SIDEWALKS, OTHER OUTSIDE STRUCTURES, AND LANDSCAPING TO AVOID CONFLICTS.
6. PROVIDE HANDHOLES IN UNDERGROUND CONDUIT AS INDICATED AND ADDITIONAL HANDHOLES AS REQUIRED DUE TO CHANGES IN CONDUIT DIRECTION. INSTALL A HANDHOLE IN EACH CONDUIT RUN OF LONGER THAN 500 FEET OR CONTAINING THE EQUIVALENT OF MORE THAN TWO 90° BENDS. INSTALL HANDHOLES AFTER BENDS AS INDICATED. DO NOT USE HANDHOLES TO MAKE A CHANGE IN DIRECTION.
7. RESTORE TO THEIR ORIGINAL ELEVATION AND CONDITION UNPAVED SURFACES DISTURBED DURING INSTALLATION OF UNDERGROUND CONDUIT. PRESERVE AND REPLACE SOD OR TOPSOIL AFTER INSTALLATION IS COMPLETED. REPLACE SOD THAT IS DAMAGED WITH SOD OF TYPE AND QUALITY EQUAL TO THAT REMOVED.
8. WHERE TRENCHES OR OTHER EXCAVATIONS ARE MADE IN AREAS OF EXISTING WALKWAYS WHERE SURFACE TREATMENT OF ANY KIND EXISTS, RESTORE SUCH SURFACE TREATMENT TO THE SAME THICKNESS AND IN THE SAME KIND AS PREVIOUSLY EXISTED (EXCEPT AS OTHERWISE INDICATED) AND TO MATCH AND TIE INTO THE ADJACENT AND SURROUNDING SURFACES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING SURFACE TREATMENT SUCH AS CONCRETE OR ASPHALTIC PAVING. THE DRAWINGS SHALL NOT BE CONSTRUED AS PROVIDING ACCURATE REPRESENTATION OF THE TYPE, LOCATION OR EXTENT OF SURFACE TREATMENT OF ANY KIND.
10. THE MINIMUM BEND RADIUS FOR ALL UNDERGROUND CONDUITS SHALL BE 10 TIMES THE INTERNAL CONDUIT DIAMETER.
11. BURIED WARNING AND IDENTIFICATION TAPE: SEE SITE PLAN KEY NOTES FOR DETAILED REQUIREMENTS. PROVIDE METALLIC DETECTION TAPE MANUFACTURED SPECIFICALLY FOR LOCATION WARNING AND IDENTIFICATION OF TRENCHED BURIED UTILITIES. INSTALL TAPE DIRECTLY ABOVE TRENCHED BURIED CONDUIT AT DEPTH OF 6 INCHES BELOW GRADE FOR ENTIRE LENGTH OF CONDUIT. TAPE SHALL BE DETECTABLE BY ANY STANDARD NON-FERRIC METAL DETECTOR. PROVIDE TAPE IN ROLLS, 6 INCHES MINIMUM WIDTH, COLOR ORANGE, WITH WARNING AND IDENTIFICATION IMPRINTED IN BOLD BLACK LETTERS CONTINUOUSLY AND REPEATEDLY OVER ENTIRE TAPE LENGTH. WARNING AND IDENTIFICATION SHALL READ "CAUTION BURIED FIBER OPTIC CABLE BURIED BELOW". TAPE SHALL BE CONTINUOUS OR SHALL BE OVERLAPPED A MINIMUM OF 20 FEET WHERE NOT CONTINUOUS.
12. TRACER WIRE: PROVIDE TRACER WIRE FOR LOCATION WARNING OF HDD BURIED CONDUITS. SEE SITE PLAN KEY NOTES FOR DETAILED REQUIREMENTS.
13. UNDERGROUND CONDUIT VALIDATION – FOLLOWING INSTALLATION OF UNDERGROUND CONDUITS, PERFORM THE FOLLOWING OPERATION FOR EACH CONDUIT: CLEAN, LUBRICATE AND VALIDATE EACH INSTALLED CONDUIT FOR SERVICEABILITY BY RUNNING A FULL SIZE RUBBER DUCT SWAB THROUGH THE CONDUIT FROM END TO END. CONDUITS THAT ARE OBSTRUCTED MAY BE CLEANED USING A WIRE BRUSH MANDREL, THEN REVALIDATED WITH THE FULL SIZE RUBBER DUCT SWAB. CONDUITS THAT DO NOT ALLOW PASSAGE OF THE FULL SIZE RUBBER DUCT SWAB SHALL BE REPLACED.
14. PULL TAPES: AS BACKBONE CABLING RUNS ARE INSTALLED CONDUIT INSTALLER SHALL PROVIDE A CONTINUOUS MARKED PULL TAPE (MULE TAPE WP2500P 2500 LB. TENSILE STRENGTH) FOR THE FULL LENGTH OF THE END-TO-END CABLE RUN WITH 10 FEET OF SLACK AT EACH END PULLED IN ALONGSIDE CABLING. BUNDLE SLACK NEATLY AT EACH END AND TIE OFF TO CONDUIT SUPPORT STRUT AT EACH END. PROVIDE CONTINUOUS FACTORY UNCUT LENGTHS OF PULL TAPE FROM END-TO-END – UNDER NO CIRCUMSTANCES SHALL PULL PARTIAL LENGTH SECTION OF PULL TAPE BE TIED TOGETHER.
15. SPARE CONDUITS: FOR CONDUITS THAT ARE INDICATED AS SPARE, INSTALL A CONTINUOUS MARKED PULL TAPE (CARLON TL382 1800 LB. TENSILE STRENGTH) FOR THE FULL LENGTH OF THE END-TO-END CONDUIT RUN WITH 10 FEET OF SLACK AT EACH END, TIE EACH END OF THE TAPE TO A BLANK DUCT PLUG WITH ROPE TIE TAB, PUSH SLACK TAPE BACK INTO CONDUIT, AND INSTALL A DUCT PLUG IN EACH CONDUIT END FOR A WATERTIGHT SEAL.
16. SEE "HORIZONTAL DIRECTIONAL DRILLING NOTES" THIS SHEETS FOR ADDITIONAL REQUIREMENTS.

GENERAL ABOVEGROUND CONDUIT NOTES:

1. CONDUIT INSTALLER PROVIDE PULL STRINGS IN ALL HORIZONTAL CABLE CONDUITS & SLEEVES AND PULL TAPE IN ALL BACKBONE CONDUITS FOR USE BY CABLING INSTALLER.
2. LOCATION AND ROUTING OF ABOVEGROUND CONDUITS IS APPROXIMATE AND DEPICTS DESIGN INTENT ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING FINAL CONDUIT ROUTING IN THE FIELD. THE CONTRACTOR SHALL COORDINATE THE FINAL ROUTING OF CONDUITS TO AVOID CONFLICTS WITH OTHER TRADES, WHILE MINIMIZING CHANGES IN DIRECTION AND OVERALL CONDUIT LENGTH. OBTAIN APPROVAL OF ENGINEER PRIOR TO ANY CHANGES IN ROUTING. CONDUIT INSTALLER – PROVIDE PULL TAPE IN ALL BACKBONE CONDUITS CONTINUOUS FROM END TO END.
3. PROVIDE HOMERUN CONDUIT RUN CONTINUOUSLY CONCEALED IN WALLS AND ABOVE LAY-IN CEILINGS FROM EACH SECURITY CAMERA AND SPECIAL SERVICE OUTLET TO SERVING CER. HOMERUN CONDUITS SHALL BE 3/4" TRADE SIZE. CONDUIT INSTALLER SHALL PROVIDE PULL STRINGS IN ALL CONDUITS CONTINUOUS FROM END TO END. SEE SEPARATE CONDUIT NOTES ON ACS SHEETS.
4. CONDUITS RUN INDOORS SHALL BE RUN CONCEALED OVERHEAD ABOVE CEILINGS UNLESS LOCATED IN SPACES WITHOUT CEILINGS, IN AN UNFINISHED SPACE SUCH AS EQUIPMENT ROOMS OR IN SPACES SPECIFICALLY INDICATED TO HAVE EXPOSED CONDUIT INSTALLATIONS. INDOOR CONDUIT SHALL BE EMT WITH STEEL FITTINGS EXCEPT WHERE RIGID THREADED CONDUIT IS INDICATED. DIE CAST EMT FITTINGS ARE NOT ALLOWABLE. FITTINGS IN EXPOSED INDOOR LOCATIONS SHALL BE STEEL COMPRESSION TYPE. FITTINGS IN CONCEALED INDOOR LOCATIONS SHALL BE STEEL SET SCREW TYPE. SUPPORT EXPOSED CONDUIT AT A MINIMUM OF 4'-0" ON CENTER WITH 2-HOLE HEAVY DUTY GALVANIZED STEEL HARDWARE. DO NOT RUN CONDUITS BELOW SLAB EXCEPT AS SPECIFICALLY INDICATED.
5. WHERE RIGID CONDUIT (RMC) IS INDICATED, PROVIDE ALL THREADED WATERTIGHT RIGID GALVANIZED THREADED FITTINGS. WHERE INDICATED INDOORS CONTRACTOR MAY PROVIDE IMC CONDUIT, BUT ALL FITTINGS SHALL BE THREADED RMC. MAINTAIN ELECTRICAL CONTINUITY FROM END-TO-END AND TERMINATE/GROUND WITH UL LISTED RIGID CONDUIT THREADED MALLEABLE IRON INSULATED GROUNDING BUSHING WITH BRONZE LUG (O-Z/GEDNEY TYPE IBC-1-BC) ON END OF EACH RIGID/IMC BACKBONE CONDUIT AND BOND TO EXISTING CC BUSBAR WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR. PLASTIC INSULATING BUSHING IS ALSO REQUIRED. ALL GROUND CONNECTIONS SHALL BE MADE WITH HEAVY DUTY 2 HOLE COMPRESSION LUGS (HARGER GECLB4-2C FOR #4AWG, GECLB6-2C FOR #6AWG) AND 3/8"ø SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS (TWO SCREWS AND NUTS PER 2 HOLE LUG).
6. SUPPORT CONDUIT DIRECTLY FROM BUILDING STRUCTURE USING APPROVED HARDWARE. DO NOT SUPPORT CONDUIT FROM OTHER SYSTEMS COMPONENTS OR SUPPORTS. ROUTE ALL CONDUITS AS HIGH AS POSSIBLE. WHERE CONDUIT IS EXPOSED RUN HARD AGAINST WALL OR UNDERSIDE OF ROOF/FLOOR STRUCTURE. RUN ALL CONDUITS PARALLEL/PERPENDICULAR AND PLUMB WITH BUILDING LINES.
7. CONDUIT BODIES SUCH AS 'LB' FITTINGS ARE NOT ALLOWABLE.
8. PROVIDE PULLBOXES OF THE SAME TYPE AND SIZE AS THOSE INDICATED ON DRAWINGS FOR EACH RUN OF CONDUIT AT EVERY 100 FEET ON CENTER AND AT EACH END OF CONDUIT RUNS CONTAINING A TOTAL OF TWO 90 deg BENDS OR A COMBINATION OF LESSER BENDS TOTALING 180 deg (MINIMUM REQUIREMENTS – PROVIDE WHETHER SPECIFICALLY INDICATED OR NOT). CONDUIT RUNS CONTAINING MORE THAN TWO 90 deg BENDS WITHOUT A PULLBOX ARE NOT ALLOWABLE. FACTORY CONDUIT ELBOWS AND ALL OTHER BENDS SHALL HAVE A MINIMUM RADIUS OF SIX TIMES THE INTERNAL CONDUIT DIAMETER. CONDUIT OFFSETS AND PULLBOXES REQUIRED TO SUIT FIELD CONDITIONS AND TO CONFORM TO THESE REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
9. PULLBOXES FOR BACKBONE CONDUITS SHALL BE AS INDICATED. PULL BOXES FOR HOMERUN CONDUITS SHALL BE 4" WIDE x 4" LONG x 2-1/8" DEEP NEMA 1 GALVANIZED STEEL WITH SCREW COVER. WHERE HOMERUN CONDUITS ARE TIGHTLY RACKED WITH UNIFORM SPACING, WIDER PULL BOXES MAY BE PROVIDED TO SERVE MULTIPLE CONDUITS. TERMINATE CONDUITS AT OPPOSITE ENDS OF PULLBOXES. DO NOT TERMINATE CONDUITS IN PULLBOXES AT RIGHT ANGLES TO EACH OTHER. HOMERUN CONDUITS SHALL NOT BE COMBINED INTO LARGER CONDUITS SERVING MULTIPLE OUTLETS.
10. WHERE CONDUIT AND PULLBOXES ARE LOCATED ABOVE NON-ACCESSIBLE CEILINGS OR SOFFITS (EXAMPLE PLASTER, METAL, OR GYPSUM BOARD) IN UNFINISHED AREAS, INSTALL AN 24"x 24" ALL ALUMINUM CEILING ACCESS DOOR IN CEILING DIRECTLY BELOW EACH SUCH PULLBOX. DO NOT INSTALL PULLBOXES ABOVE NON-ACCESSIBLE CEILINGS IN FINISHED AREAS. ACCESS DOORS SHALL BE LARSEN'S L-LCP, ALL ALUMINUM CONSTRUCTION AND FASTENERS. PROVIDE ACCESS DOORS FACTORY PRIMED FOR PAINTING. FINISH PAINT WITH TWO COATS ENAMEL AFTER INSTALLATION TO MATCH EXISTING CEILING, SOFFIT, OR WALL.
11. TERMINATE ALL CONDUIT ENDS WITH THREADED PLASTIC INSULATING BUSHINGS (PUSH-ON NOT ALLOWABLE). BUSHINGS MUST FIT TIGHTLY ON CONDUIT CONNECTOR THREADS. INSTALL ALL BUSHINGS PRIOR TO PULLING CABLE. CONDUIT INSTALLER PROVIDE PULL STRINGS IN ALL HORIZONTAL CABLE CONDUITS AND PULL TAPE IN ALL BACKBONE CONDUITS FOR USE BY CABLING INSTALLER. LEAVE 10'-0" OF PULL TAPE SLACK AT EACH END OF BACKBONE CONDUIT AND TAPE EXCESS INTO ROLL.
12. IDENTIFICATION: IDENTIFY ALL INDOOR COMMUNICATIONS CONDUITS, PULLBOXES ABOVE LAY-IN CEILINGS, ACCESS DOORS AND IN ROOF SPACE WITH BLUE PAINT FOR COMMUNICATIONS AT EVERY PULLBOX AND ON CONDUIT AT EACH COUPLER (PAINT ENTIRE COUPLER). DO NOT PAINT CONDUIT COUPLERS AND ENCLOSURES IN CER/CCs. IDENTIFY ALL BACKBONE CONDUIT PULLBOXES. PAINT WITH 1" TALL LETTER STENCIL (COLOR BLUE) THE WORDS "TELCOM" ON EACH PULLBOX COVER. LETTERING SHALL BE LEVEL AND SQUARE AND AT CENTER OF PULLBOX COVER. USE COLOR COLOR GREEN FOR SECURITY CAMERA CONDUITS, WHITE FOR ACCESS CONTROL CONDUITS AND COLOR ORANGE FOR DDC CONDUITS.
13. PAINTING: PAINT ALL OUTDOOR CONDUITS WHERE ENTERING BUILDINGS. COLORS SHALL MATCH EXISTING ADJACENT SURFACES (INCLUDING MATCHING COLOR AND LUSTER FOR BRICK WALLS). PREP ALL GALVANIZED SURFACES BY THOROUGHLY WASHING WITH VINEGAR, THEN PRIME WITH GLIDDEN "GRIPPER" GL-3250 GREY PRIMER. PREP FACTORY PAINTED BOXES BY ROUGHENING WITH SANDPAPER, PRIMING, AND PANTING. FINISH ALL SURFACES WITH TWO COATS PREMIUM GRADE ACRYLIC LATEX EXTERIOR PAINT, COLOR TO MATCH ADJACENT SURFACE. PROVIDE SEMI-GLOSS PAINT AT FASCIAS AND OTHER PRE-FINISHED METAL SURFACES AND SURFACES FINISHED WITH SEMI-GLOSS PAINT. PROVIDE FLAT PAINT AT BRICK WALLS AND OTHER FLAT FINISHED SURFACES.

SPECIAL SERVICES NOTE:

PROVIDE TWO CAT 6 CONNECTIONS TO EACH OF SPECIAL SERVICES OUTLETS INDICATED ON THE FLOORPLANS.

COORDINATE LOCATIONS AND INTERFACE REQUIREMENTS WITH THE OWNER'S PROJECT MANAGER. HOMERUN CABLING CONTINUOUS IN 3/4 EMT CONDUIT FROM SERVING MDF/IDF TO SERVICE POINT FOR EACH SYSTEM. SEE PLANS FOR LOCATIONS AND ADDITIONAL REQUIREMENTS. SEE DATA SINGLE LINE DIAGRAMS.

RIGID CONDUIT NOTE

PROVIDE RIGID THREADED CONDUIT (RMC) WITH THREADED MALLEABLE IRON FITTINGS AS INDICATED FOR BACKBONE CONDUIT. MAINTAIN ELECTRICAL CONTINUITY FROM END-TO-END AND GROUND PER "CER/CC GROUNDING NOTES" AND "GENERAL ABOVEGROUND CONDUIT NOTES".

OUTLET CONDUIT NOTE

SEE FLOORPLANS FOR OUTLETS REQUIRING HOMERUN CONDUITS. ROUTE CONDUITS UNDERGROUND AS REQUIRED FOR CABLE DISTANCE RESTRICTIONS.

STRUCTURED CABLING - CABLE REQUIREMENTS:

ALL CABLING SHALL BE PROVIDED AS AN END-TO-END SERVICE. ALL CABLES SHALL BE LABELED AT EACH END WITH WRAPAROUND CABLE FLAGS. ALL PATCH CORDS SHALL BE LABELED AT EACH END WITH INCREMENTAL NUMBERS FOR QUICK IDENTIFICATION. SEE LABELING DETAILS. FULLY POPULATE ALL PATCH PANELS WITH SPARE JACKS.

FIBER OPTIC CABLING:
- ALL FIBER OPTIC CABLING, PATCH CORDS AND COMPONENTS SHALL BE AND END-TO-END CORNING SOLUTION.
- NEW INDOOR FIBER OPTIC CABLES SHALL BE CORNING ALTOS, STRANDS AS INDICATED MULTIMODE ARMORED CABLE.
- ALL STRANDS SHALL BE TERMINATED WITH FUSION SPLICED PIGTAILS WITH LC CONNECTORS.
- ALL PATCH CORDS SHALL BE PROVIDED FROM THE SPLICE CASSETTES OR FIBER DRAWERS, CONFIRM DESIRED LENGTHS WITH OWNER OR ENGINEER PRIOR TO ORDERING. PROVIDE 10 SPARE FIBER PATCH CORDS. PROVIDE LCxLC OR LCxSC, CONFIRM ENDS BASED ON EQUIPMENT PRIOR TO ORDERING.
- EXCESSIVE LENGTHS WITHIN ENCLOSURES AND IN RACKS WILL NOT BE ALLOWED.
- PROVIDE 25 YEAR END-TO-END SYSTEM WARRANTY.

CATEGORY 6A CABLING, CABINETS, RACKS & WIRE MANAGEMENT – BELDEN:
- ALL CATEGORY 6A CABLING AND COMPONENTS SHALL BE AND END-TO-END BELDEN SOLUTION.
- NEW CATEGORY 6A CABLES SHALL BE PER CABLE SCHEDULE, COLOR PER USER SCHEDULE.
- SEE DETAILS FOR BELDEN FACEPLATE, JACKS AND LABELING REQUIREMENTS.
- WHEN TERMINATING WITHIN EXISTING COMMUNICATION ROOMS, NEW BELDEN PATCH PANELS SHALL BE UTILIZED, SEE DRAWINGS.
- ALL PATCH CORDS SHALL BE PROVIDED WITHIN EXISTING COMMUNICATIONS ROOMS TO COMPLETE AN END-TO-END SOLUTION. CONFIRM DESIRED LENGTHS WITH ENGINEER PRIOR TO ORDERING. PROVIDE PATCH CORDS QUANTITY, LENGTHS AND COLORS TO PATCH 100% OF TERMINATED JACKS AT BOTH ENDS. PATCH OUTLETS THAT WILL BE USED AND TURN OVER REMAINING PATCH CORDS AS SPARES. EXCESSIVE LENGTHS WITHIN ENCLOSURES AND IN RACKS WILL NOT BE ALLOWED.
- PROVIDE 25 YEAR END-TO-END SYSTEM WARRANTY

CATEGORY 6A CABLING, CABINETS, RACKS & WIRE MANAGEMENT – GENERAL CABLE & PANDUIT:
- ALL CATEGORY 6A CABLING, CABINETS, RACKS, WIRE MANGEMENT AND RELATED COMPONENTS SHALL BE AND END-TO-END GENERAL CABLE AND PANDUIT SOLUTION.
- NEW CATEGORY 6A CABLES SHALL BE PER CABLE SCHEDULE, COLOR PER USER SCHEDULE.
- SEE DETAILS FOR FACEPLATE, JACKS AND LABELING REQUIREMENTS.
- WHEN TERMINATING WITHIN EXISTING COMMUNICATION ROOMS, NEW PATCH PANELS SHALL BE UTILIZED, SEE DRAWINGS.
- ALL PATCH CORDS SHALL BE PROVIDED WITHIN EXISTING COMMUNICATIONS ROOMS TO COMPLETE AN END-TO-END SOLUTION. CONFIRM DESIRED LENGTHS WITH ENGINEER PRIOR TO ORDERING. PROVIDE PATCH CORDS QUANTITY, LENGTHS AND COLORS TO PATCH 100% OF TERMINATED JACKS AT BOTH ENDS. PATCH OUTLETS THAT WILL BE USED AND TURN OVER REMAINING PATCH CORDS AS SPARES. EXCESSIVE LENGTHS WITHIN ENCLOSURES AND IN RACKS WILL NOT BE ALLOWED.
- PROVIDE 25 YEAR END-TO-END SYSTEM WARRANTY

APPROVED CATEGORY 6A HORIZONTAL CABLES

APPLICATION	MANUFACTURER	PART NUMBER	UL JACKET	JACKET COLOR
PLENUM	BELDEN	DATATWIST 10GX13	CMP	PER USER
	GENERAL	GENSPEED MTP 71418xx	CMP	PER USER
OSP BURIAL GRADE CAT 6A	BERK-TEK	LANMARK-10G OSP 11094458	RISER	BLACK PE
	GENERAL	GENSPEED OSP 8136100	RISER	BLACK PE
	BELDEN	OSP6AU 010	RISER	BLACK PE

WALL/FLOOR PENETRATION NOTE:

FIRE-RATED WALLS AND FLOORS:
THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS THAT EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. FIRESTOP SYSTEMS SHALL BE 3M, NELSON OR ENGINEER APPROVED EQUAL INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FIRE-RATED WALL AND FLOOR PENETRATION REQUIRED FOR THIS PROJECT.

INTERIOR NON FIRE-RATED WALLS:
ALL OPENINGS IN WALLS THAT DO NOT EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE SHALL BE SLEEVED, REPAIRED AND COMPLETELY SEALED WITH MATERIALS TO MATCH THE WALL CONSTRUCTION.

EXTERIOR WALLS:
SLEEVE WALL OPENING WITH SECTION OF SCHEDULE 40 PVC CONDUIT SIZED TO ACCEPT CONDUIT WITH ±1/4" ANNULAR SPACE FOR CAULK. SEAL BETWEEN SLEEVE AND CONDUIT WITH BACKER AND DOUBLE APPLICATION OF CLEAR LIFETIME SILICONE CAULK (BOTH SIDES). REPAIR WALL OPENING AROUND SLEEVE WITH NON-SHRINK HYDRAULIC GROUT FINISHED SMOOTH TO WALL SURFACE (BOTH SIDES). FINISH PAINT TO MATCH EXISTING BUILDING WALL COLOR.

Communications General Project Notes:

GENERAL DEMOLITION NOTES:
1. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL ITEMS DEMOLISHED AS PART OF THIS PROJECT.
2. DEMOLISH ALL EXISTING DATA AND VOICE OUTLETS AND EQUIPMENT NOT SHOWN TO BE REUSED WITH ALL RELATED CABLING, CONDUITS, HANGERS, RACKS, PATCH PANELS, WIRING BLOCKS, WIRE MANAGEMENT, SURFACE RACEWAY, OUTLETS, ELECTRICAL SERVICES AND APPURTENANCES ABOVE AND BELOW CEILINGS, WHETHER OR NOT INDICATED ON THE PLANS.

GENERAL PROJECT EXECUTION NOTES:
1. THE CONTRACTOR SHALL PROTECT ALL BUILDING COMPONENTS, EQUIPMENT, FURNISHINGS AND OTHER PROPERTY OF THE OWNER FROM PHYSICAL DAMAGE AND CONTACT WITH DUST AND DEBRIS GENERATED BY WORK UNDER THE PROJECT AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION OF THE PROJECT AND ACCEPTANCE BY THE OWNER. ALL SYSTEM COMPONENTS THAT, IN THE SOLE JUDGMENT OF THE OWNER'S PROJECT MANAGER, ARE EXPOSED TO EXCESSIVE ACCUMULATION OF CONSTRUCTION DUST/DEBRIS SHALL BE REMOVED AND REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL AND IDENTIFY AND RECONNECT/RESTORE ALL EXISTING MISCELLANEOUS VOICE AND DATA SERVICES THROUGH THE NEW STRUCTURED CABLING SYSTEM, WHETHER THOSE SERVICES ARE SPECIFICALLY IDENTIFIED OR NOT.

NOTES:
ALL EXTERIOR HARDWARE AND FASTENERS MUST BE 316 STAINLESS STEEL.

ALL PULLBOXES AND DEVICES FOR CCTV OR ACCESS CONTROL BELOW 84" A.F.F. MUST USE STAINLESS STEEL SECURITY SCREWS.

ALL CONDUIT ENDS SHALL BE PROTECTED (SEALED) AT ALL TIMES TO ENSURE THEY REMAIN CLEAN AND 100% USEABLE. FAILURE TO PROTECT THE CONDUIT ENDS WILL RESULT IN CONDUIT REINSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

PROVIDE CONDUITS WITH DIRECT PATHS TO REQUIRED COMMUNICATIONS OUTLETS, SECURITY, CCTV AND PA EQUIPMENT. PROVIDE UNDERGROUND CONDUITS TO OUTLETS WHERE DIRECT ROUTING MINIMIZES CABLE LENGTH. PROVIDE ABOVE GROUND CONDUIT ROUTING FOR ALL OTHER OUTLETS.

ALL ABOVE GROUND PATHS SHALL FOLLOW BUILDING LINES AND SHALL BE PROPERLY SUPPORTED USING STAINLESS STEEL HARDWARE AND FASTENERS. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. ALL ABOVE GROUND CONDUIT ABOVE AREAS THAT MAY BE DAMAGED SHALL BE SCHEDULE 80 PVC (UNLESS OTHERWISE NOTED). ALL ABOVE GROUND CONDUITS SUBJECT TO DAMAGE SHALL BE ALUMINUM RIGID FROM BELOW GRADE (COATED BELOW GRADE TO 6" A.F.F.) TO HEIGHT BEYOND POTENTIAL DAMAGE BY VEHICLE, BAGGAGE, CARTS, ETC.

COMMUNICATIONS OUTLET NOTE:

COMMUNICATIONS OUTLET LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EACH OUTLET WITH THE ARCHITECT, THE OWNER'S PROJECT MANAGER AND THE ELECTRICAL CONTRACTOR PRIOR TO THE CONDUIT AND DEVICE BOX ROUGH-IN. PARTICULAR ATTENTION SHALL BE GIVEN TO COORDINATION OF OUTLET LOCATIONS RELATIVE TO WINDOWS, CASEWORK AND OTHER OBSTRUCTIONS. ALL COMMUNICATIONS OUTLETS (CO's) SHALL BE LOCATED AT 18" A.F.F. UNLESS INDICATED OTHERWISE ON FLOOR PLANS AND DETAILS OR SO DIRECTED BY ARCHITECT IN THE FIELD.

MANDATORY PREBID WALK NOTE:

PRIOR TO BIDDING THIS PROJECT, CONTRACTOR SHALL SCHEDULE ACCESS TO THE SITE AND FULLY INSPECT ALL AREAS AND EXISTING CONDITIONS. THE PURPOSE OF THE PREBID INSPECTION IS TO FAMILIARIZE PERSPECTIVE BIDDER WITH THE CONTRACT REQUIREMENTS, EXISTING PATHWAYS AND EXISTING CONDITIONS.

CONTRACTOR QUALIFICATIONS NOTE:

NOTE THAT CONTRACTOR QUALIFICATIONS IN SPECIFICATIONS MUST BE STRICTLY ADHERED TO. OF SPECIFIC IMPORTANCE:
- EMPLOYEES OF THE SCSC THAT ARE INSTALLING EQUIPMENT, TESTING CABLES, TERMINATING CABLES OR PULLING CABLES MUST BE PERMANENT EMPLOYEES THAT HAVE BEEN FACTORY TRAINED AND CERTIFIED FOR THE TASK THEY ARE COMPLETING.
- AT NO TIME WILL TEMPORARY LABOR OR NON-FACTORY TRAINED AND CERTIFIED EMPLOYEES COMPLETE THE ABOVE STATED TASKS.
- OWNER AND ENGINEER WILL RANDOMLY CHECK CREDENTIALS OF EMPLOYEES ON SITE AND THEIR ASSOCIATED TASKS.
- ANY DEVIATION FROM THE ABOVE MAY RESULT IN REJECTION OF THAT PORTION OF THE INSTALLATION.

WORKMANSHIP NOTE:

AS STATED IN THE SPECIFICATIONS, ALL WORK MUST MEET THE HIGHEST LEVELS OF WORKMANSHIP. WORK NOT MEETING THIS LEVEL OF WORKMANSHIP WILL NOT BE ACCEPTED. A BRIEF LIST OF EXAMPLES ARE BELOW BUT IF THERE IS ANY QUESTION OF WHAT THE EXPECTATION IS, REAL WORLD EXAMPLES CAN BE PROVIDED.
- CABLES MUST BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES.
- CABLES MUST BE BUNDLED, MAXIMUM OF 24 CABLES PER BUNDLE.
- BUNDLES MUST BE SEPARATED ACCORDING TO SERVICE (I.E. CCTV, WAP AND DATA ARE THREE SEPARATE BUNDLES) AND USERS (SEPARATE CPA CABLES FROM CL1 CABLES).
- AUDIO/VIDEO CABLES SHALL FOLLOW PARALLEL PATHS BUT SHALL NOT BE ON THE SAME J-HOOK OR BUNDLED WITH OTHER SERVICES.
- BUNDLES SHALL HAVE BLACK VELCRO MINIMUM EVERY FOUR FEET OUTSIDE OF COMMUNICATIONS ROOMS, EVERY FOOT FOR SERVICE LOOPS, EVERY FOOT WITHIN COMMUNICATIONS ROOMS AND EVERY 6 INCHES WITHIN WIRE MANAGEMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SERVICE LOOPS SHALL BE SUPPORTED, NOT FREE HANGING NEAR OUTLETS. SERVICE LOOP SHOULD BE ABOVE THE CEILING, CABLE SLACK IN OUTLET BOX IS NOT PERMITTED.
- DAMAGED CABLES OR CABLES BENT PAST PROPER BEND RADIUS WILL BE REPULLED, NO EXCEPTIONS.
- ZIP TIES WILL NOT BE ALLOWED EVEN DURING CABLE PULLS. PATCH CORD CABLE TAGS MUST BE LIGHTLY SECURED, PATCH CORDS WITH OVER-TIGHTENED TAGS WILL BE REJECTED.

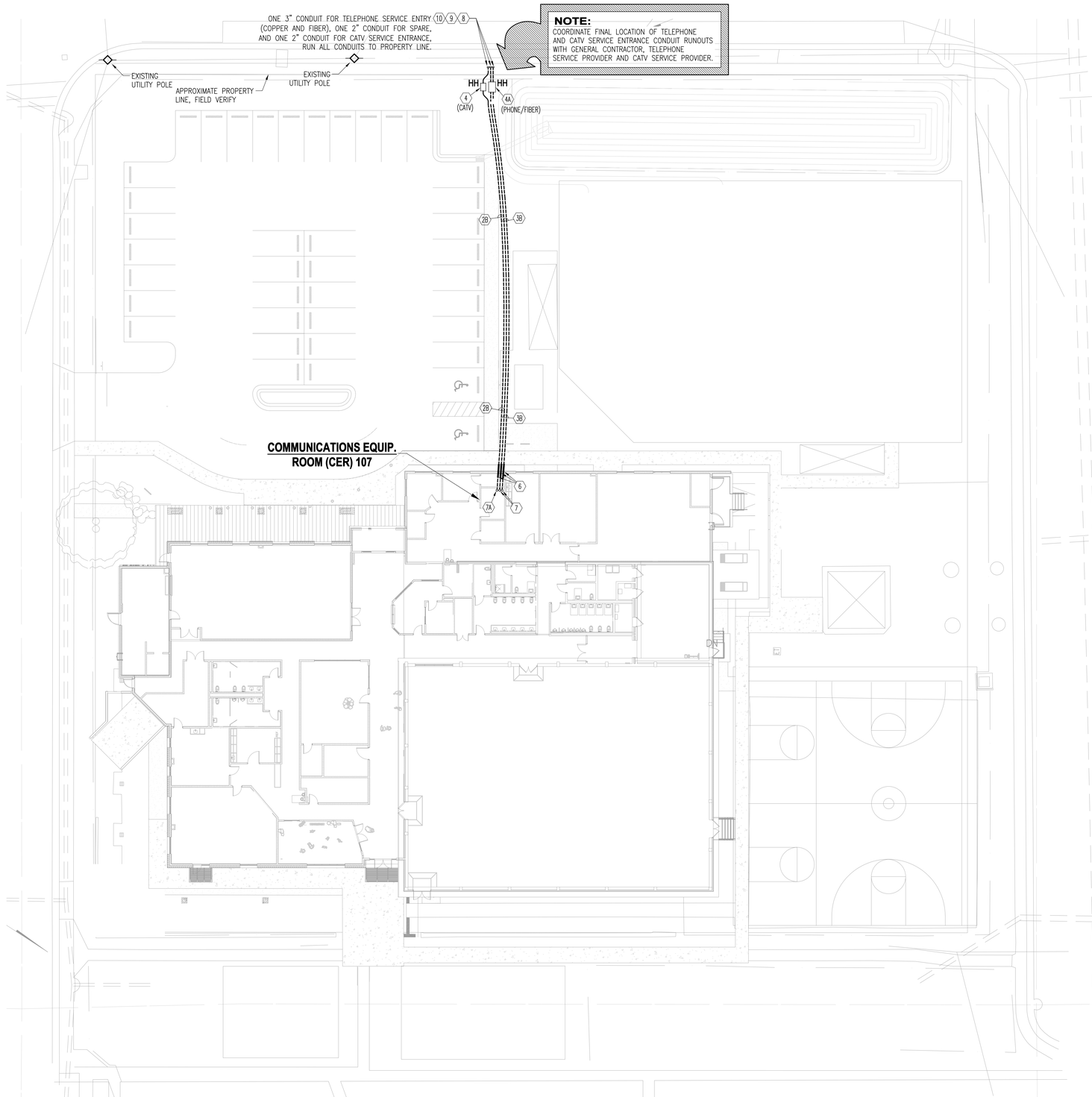
POWER CORDS:

THE STRUCTURED CABLING SYSTEM CONTRACTOR SHALL PROVIDE FACTORY MADE ELECTRICAL POWER EXTENSION CORDS AS REQUIRED TO EXTEND POWER CONNECTIONS FROM ALL OWNER FURNISHED DATA EQUIPMENT TO RACK POWER STRIPS.

CORDS SHALL ROUTE FROM EQUIPMENT, UP RACKS ATTACHED TO STANDOFF BRACKETS AS INDICATED ON DRAWINGS, AND OVER TO RACK POWER STRIPS.

THE STRUCTURED CABLING SYSTEM CONTRACTOR SHALL ALSO ALL PROVIDE FACTORY MADE ELECTRICAL POWER EXTENSION CORDS AS REQUIRED TO EXTEND CORDS FROM ALL RACK POWER STRIPS TO A RACK MOUNTED UPS OR TO A WALL MOUNT 120VAC POWER OUTLET AS DIRECTED BY THE ENGINEER IN THE FIELD. POWER EXTENSION CORDS SHALL BE BLACK, 20 AMP CAPACITY (OR HEAVIER IF REQUIRED BY THE EQUIPMENT SERVED), HEAVY DUTY INSULATION, LENGTH AS REQUIRED TO MAKE EACH CONNECTION, PROPERLY ROUTED AND SECURED AT 12 INCHES ON CENTER, WITH ONLY ONE CORD ALLOWED PER CONNECTION, AND WITHOUT EXCESS CORD STORAGE.

FREE-ROUTED HORIZONTAL C



COMMUNICATIONS SITE PLAN LEGEND:

HH COMMUNICATIONS HAND HOLE. SEE HAND HOLE DETAILS.

---------- COMMUNICATIONS BACKBONE CONDUIT RUN UNDERGROUND.

COMMUNICATIONS SITE PLAN KEY NOTES:

(2B) 2" PVC CONDUIT (UNDERGROUND), SCHEDULE 80, RUN UNDERGROUND DIRECT BURIED. MINIMUM BURIAL DEPTH 24" BELOW FINISHED GRADE. PROVIDE CONTINUOUS WARNING TAPE (ORANGE 3" WIDE – DETECTABLE – CARLON MAT3061) OVER ALL BURIED CONDUIT AT 6" BELOW FINISH GRADE. INSTALL 3/8" MARKED PULL TAPE (CARLON TL382) ALONG WITH REQUIRED CABLES. SEE "GENERAL UNDERGROUND CONDUIT NOTES".

(3B) 3" PVC CONDUIT (UNDERGROUND), SCHEDULE 80, RUN UNDERGROUND DIRECT BURIED. MINIMUM BURIAL DEPTH 24" BELOW FINISHED GRADE. PROVIDE CONTINUOUS WARNING TAPE (ORANGE 3" WIDE – DETECTABLE – CARLON MAT3061) OVER ALL BURIED CONDUIT AT 6" BELOW FINISH GRADE. INSTALL 3/8" MARKED PULL TAPE (CARLON TL382) ALONG WITH REQUIRED CABLES. SEE "GENERAL UNDERGROUND CONDUIT NOTES".

(4) SMALL COMMUNICATIONS HANDHOLE, SEE DETAILS.

(4A) LARGE COMMUNICATIONS HANDHOLE, SEE DETAILS.

(6) SLEEVE CONDUIT WITH 6'–0" LONG SECTION OF SCHEDULE 80 PVC SLEEVE (4" SLEEVE FOR 2" CONDUIT 6" SLEEVE FOR 3" CONDUIT) WHERE CONDUIT PENETRATES OR PASSES UNDER FOUNDATION/FOUNDATION WALL.

(7) TURN SCHED 80 PVC CONDUIT UP, SLEEVE AND SEAL FLOOR PENETRATION AND TERMINATE WITH END BELL AT 4" A.F.F.

(7A) TURN SCHED 80 PVC CONDUIT UP, SLEEVE AND SEAL FLOOR PENETRATION THEN CONVERT TO EMT AT 4" A.F.F. AND EXTEND UP TO MAIN TV ENCLOSURE. SEE "MAIN TV ENCLOSURE" SHEET TEL501.

(8) THE SCS CONTRACTOR SHALL NOTIFY THE PHONE/DATA SERVICE PROVIDER AND THE OWNER (WHEN THE SERVICE ENTRANCE CONDUIT AND BACKBOARD FACILITIES ARE IN PLACE) AND SHALL COORDINATE ALL WORK RELATED TO THE SERVICE ENTRANCE WITH THE CARRIER AND THE OWNER AS REQUIRED. THE OWNER SHALL PLACE THE ORDER FOR TELEPHONE CIRCUITS AND/OR DATA SERVICE WITH THE PROVIDER(S). THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SERVICE ENTRANCE CONDUIT AND BACKBOARD FACILITIES ARE COMPLETED IN A TIMELY MANNER SUCH THAT SERVICES TO THE BUILDING ARE IN PLACE AND FULLY OPERATIONAL WELL AHEAD (2 WEEKS MINIMUM) OF OCCUPANCY BY THE OWNER. THE GENERAL CONTRACTOR AND ARCHITECT SHALL BE COPIED ON ALL CORRESPONDENCE RELATED TO THIS WORK.

(9) THE SCS CONTRACTOR SHALL NOTIFY THE CATV SERVICE PROVIDER AND THE OWNER (WHEN THE CATV SERVICE ENTRANCE CONDUIT AND ALL RELATED FACILITIES ARE IN PLACE) AND SHALL COORDINATE ALL WORK RELATED TO THE CATV SERVICE ENTRANCE WITH THE SERVICE PROVIDER AND THE OWNER AS REQUIRED. THE OWNER SHALL PLACE THE ORDER FOR CATV SERVICE WITH THE SERVICE PROVIDER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE CATV SERVICE ENTRANCE CONDUIT AND RELATED FACILITIES ARE COMPLETED IN A TIMELY MANNER SUCH THAT CATV SERVICES TO THE BUILDING ARE IN PLACE AND FULLY OPERATIONAL WELL AHEAD (2 WEEKS MINIMUM) OF OCCUPANCY BY THE OWNER. THE GENERAL CONTRACTOR AND ARCHITECT SHALL BE COPIED ON ALL CORRESPONDENCE RELATED TO THIS WORK.

(10) CAP CONDUIT (GLUE ON CAP). COIL 3 FEET OF PULL TAPE INSIDE CONDUIT. MARK WITH VERTICAL 2" CONDUIT STUBBED UP 1" ABOVE GRADE WITH TOP CAP PAINTED ORANGE. TAG MARKER CONDUIT FOR SERVICE AS INDICATED.

WALL/FLOOR PENETRATION NOTE:

FIRE–RATED WALLS AND FLOORS:
THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS THAT EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. FIRESTOP SYSTEMS SHALL BE 3M, NELSON OR ENGINEER APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FIRE–RATED WALL AND FLOOR PENETRATION REQUIRED FOR THIS PROJECT.

INTERIOR NON FIRE–RATED WALLS:
ALL OPENINGS IN WALLS THAT DO NOT EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE SHALL BE SLEEVED, REPAIRED AND COMPLETELY SEALED WITH MATERIALS TO MATCH THE WALL CONSTRUCTION.

GENERAL CONDUIT PATHWAYS NOTE

RUN ALL CABLING IN CONDUIT PATHWAYS AS INDICATED, EXCEPT WHERE CONTRACTOR ELECTS TO INSTALL ADDITIONAL CONDUIT NOT INDICATED ON DRAWINGS. THE CONTRACTOR AGREES TO USE THE CONDUIT SYSTEM AS SHOWN, OR SHALL PROVIDE ADDITIONAL CONDUIT (AT NO ADDITIONAL COST TO THE OWNER) AS REQUIRED TO PROPERLY INSTALL ALL CABLING INDICATED, WITHOUT DAMAGE TO CABLING. THE ENTIRE CABLING PLANT SHALL BE TESTED TO THE REQUIREMENTS OF THE SPECIFICATIONS FOR THIS PROJECT AND SHALL BE CERTIFIED BY THE CONTRACTOR. ALL CONDUIT SHALL CONFORM TO REQUIREMENTS OF THE CONTRACT DOCUMENTS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.

FIRESTOPPING NOTE:

THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF ALL FLOORS AND ALL WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. FIRESTOPPING SHALL BE ACCOMPLISHED USING UL CLASSIFIED SYSTEMS WITH FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY PENETRATED. FIRESTOP SYSTEMS SHALL BE 3M, NELSON OR ENGINEER APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FLOOR AND WALL PENETRATION REQUIRED FOR THIS PROJECT. ALL OTHER PENETRATIONS OR OPENINGS IN NON–FIRE RATED WALLS SHALL BE REPAIRED AND SEALED WITH MATERIALS TO MATCH THE CONSTRUCTION OF THE WALL.

TRUE NORTH

PLAN NORTH

1 / T1.10 OVERALL SITE PLAN - LOW VOLTAGE
SCALE: 1/16" = 1'-0"

NOTE: SITE PLAN SCALE IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DISTANCES IN THE FIELD PRIOR TO BIDS.

Graphic Scale
16 8 0 16FT 32FT
SCALE: 1/16" = 1'–0"

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ISSUE DATE
PERMIT SET 12/08/2025

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GMC # APEN250016

COMMUNICATIONS DISTRIBUTION DESIGNER — BICSI — CERTIFIED

COMMUNICATIONS FLOOR PLANS

T0.10

General Project & Demolition Notes

1. THE PROJECT REQUIRES THAT THE CONTRACTOR WORK ABOVE EXISTING CEILINGS AND SOFFITS OUTSIDE THE LIMITS OF THE RENOVATION AREAS AND IN OCCUPIED SPACES OF THE FACILITY FOR THE INSTALLATION OF CONDUIT AND CABLING. THE CONTRACTOR SHALL PROVIDE PHOTOGRAPHIC DOCUMENTATION OF THE CONDITIONS OF ALL EXISTING CEILINGS AND SOFFITS TO REMAIN AND WHERE WORK IS TO BE PERFORMED USING A HIGH RESOLUTION DIGITAL CAMERA PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR SHALL PROVIDE DIGITAL FILES OF ALL PHOTOGRAPHS (WITH AREAS LABELED) TO THE OWNER'S PROJECT MANAGER. THE CONTRACTOR SHALL REPLACE ALL CEILING TILES OR REPAIR OTHER CEILING TYPE FINISHES AND SOFFITS (MATCH EXISTING) DAMAGED AS A RESULT OF WORK UNDER THIS CONTRACT. NOTE: REPLACEMENT OF EXISTING CEILING TILES WHERE EXISTING SYSTEM COMPONENTS INCLUDING SURFACE RACEWAY ARE REMOVED IS REQUIRED AS PART OF PROJECT.

2. THE CONTRACTOR SHALL PROTECT ALL BUILDING COMPONENTS, EQUIPMENT, FURNISHINGS AND OTHER PROPERTY OF THE OWNER TO REMAIN FROM PHYSICAL DAMAGE AND CONTACT WITH DUST AND DEBRIS GENERATED BY WORK UNDER THE PROJECT AT ALL TIMES DURING CONSTRUCTION AND UNTIL FINAL COMPLETION OF THE PROJECT AND ACCEPTANCE BY THE OWNER. ALL SYSTEM COMPONENTS THAT, IN THE SOLE JUDGMENT OF THE OWNER'S PROJECT MANAGER, ARE EXPOSED TO EXCESSIVE ACCUMULATION OF CONSTRUCTION DUST/DEBRIS SHALL BE REMOVED AND REPLACED WITH NEW AT NO ADDITIONAL COST TO THE OWNER.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO BUILDING COMPONENTS, EQUIPMENT AND FURNISHINGS CAUSED BY THE CONTRACTOR OR HIS SUBCONTRACTORS. THE CONTRACTOR SHALL, AS DIRECTED BY THE OWNER'S PROJECT MANAGER, REPAIR OR REPLACE WITH NEW ANY DAMAGED ITEM AT THE CONTRACTOR'S EXPENSE. ANY ITEM THAT THE OWNER'S PROJECT MANAGER ALLOWS TO BE REPAIRED SHALL BE RESTORED TO THE CONDITION EXISTING PRIOR TO THE DAMAGE OCCURRING, OR BETTER.

4. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL ITEMS DEMOLISHED AS PART OF THIS PROJECT.

9. AT RENOVATION AREA THE CONTRACTOR SHALL DEMOLISH THE EXISTING DATA, VOICE AND TV SYSTEMS IN THEIR ENTIRETY INCLUDING ALL EXISTING ASSOCIATED OUTLETS, CABLING, CONDUITS, SURFACE RACEWAY, HANGERS AND APPURTENANCES ABOVE AND BELOW CEILINGS, WHETHER OR NOT INDICATED ON THE PLANS, EXCEPT WHERE REUSE OF EXISTING FACILITIES IS SPECIFICALLY INDICATED, OR WHERE IT IS EVIDENT THAT AN EXISTING FACILITY NEEDS TO REMAIN IN SERVICE FOR ANY REASON, IN WHICH CASE THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER BEFORE TAKING ANY ACTION. TURN ALL EQUIPMENT OVER TO THE OWNER THAT THE OWNER ELECTS TO RETAIN. COORDINATE WITH THE OWNER'S PROJECT MANAGER PRIOR TO REMOVING ANY EXISTING MATERIALS FROM THE SITE.

10. THE CONTRACTOR SHALL FIELD VERIFY THE FULL EXTENT OF DEMOLITION WORK REQUIRED PRIOR TO BIDS.

11. IN EXISTING OCCUPIED AREAS OF THE BUILDING WHERE WORK IS BEING PERFORMED UPON COMPLETION OF THE WORK ON A TASK–BY–TASK BASIS, AND AS A MINIMUM ON A DAILY BASIS, THE CONTRACTOR SHALL REPLACE AND RECONNECT ALL EQUIPMENT, APPLIANCES, FURNITURE, ETC., MOVED IN ORDER TO ACCOMPLISH THE WORK. DEBRIS AND RUBBISH CAUSED BY THE WORK SHALL BE REMOVED AND THE PREMISES LEFT VACUUM CLEAN. ALL FURNITURE, WORK SURFACES, COMPUTERS AND THE LIKE SHALL BE WIPED DOWN TO REMOVE MINOR DUST GENERATED BY THE WORK.

12. IF CONSTRUCTION SCHEDULE REQUIRES PORTIONS OF THE SITE TO REMAIN ACTIVE, MAINTAIN ALL EXISTING SYSTEMS SERVING OCCUPIED AREAS OF THE BUILDING IN FULL OPERATION AT ALL TIMES UNLESS TIME LIMITED SHUTDOWNS ARE APPROVED BY THE OWNER'S PROJECT MANAGER IN WRITING. APPROVAL FOR SHUTDOWNS MUST BE REQUESTED NOT LESS THAN 5 DAYS PRIOR TO THE SHUTDOWN. PROVIDE ALL TEMPORARY MEASURES REQUIRED TO MAINTAIN EXISTING SYSTEMS SERVING OCCUPIED AREAS OF THE FACILITY IN FULL OPERATION UNTIL THE PROJECT IS COMPLETE AT NO ADDITIONAL COST TO THE OWNER. STARTUP OF AND CUTOVER TO NEW SYSTEMS SHALL OCCUR AT A TIME PRE–APPROVED BY THE CITY'S PROJECT MANAGER AT NIGHT OR ON A WEEKEND OR HOLIDAY WHEN THE BUILDING IS NOT IN USE. NEW SYSTEMS AND EXISTING SYSTEMS TO REMAIN SHALL BE FULLY TESTED, COMMISSIONED AND FUNCTIONAL IN ALL RESPECTS PRIOR TO THE COMMENCEMENT THE NEXT SCHEDULED SESSION OF FACILITY ACTIVITIES.

13. PATCH, PAINT AND OTHERWISE RESTORE AND REFINISH TO MATCH ADJACENT SURFACES ALL WALL, CEILING, SOFFIT AND FLOOR FINISHES TO REMAIN WHERE EXISTING SYSTEMS COMPONENTS ARE REMOVED. REPLACE ALL CEILING TILES DAMAGED BY WORK UNDER THIS PROJECT AND WHERE PENETRATED BY EXISTING SURFACE RACEWAY OR CONDUIT TO BE REMOVED. BLANK ALL RECESSED DEVICE BOXES NOT REUSED WITH STAINLESS STEEL BLANK PLATES.

14. REPAIR OPENINGS IN EXISTING FIRE WALLS (OPENINGS LEFT AS A RESULT OF DEMOLITION WORK UNDER THIS PROJECT) TO MATCH FIRE WALL CONSTRUCTION – IF EXISTING CONSTRUCTION CANNOT BE REPAIRED FIRESTOP AS APPROVED BY AUTHORITY HAVING JURISDICTION (AHJ).

15. THE CONTRACTOR SHALL AND IDENTIFY AND RECONNECT/RESTORE ALL EXISTING MISCELLANEOUS DATA AND VOICE SERVICES THROUGH THE NEW SYSTEM, WHETHER THOSE SERVICES ARE SPECIFICALLY IDENTIFIED OR NOT.

COMMUNICATIONS DEMOLITION FLOOR PLAN KEY NOTES:

(1) EXISTING COMMUNICATIONS OUTLETS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.

(1A) DEMOLISH EXISTING COMMUNICATIONS OUTLETS WITH ASSOCIATED CONDUIT AND CABLING BACK TO EXISTING CER.

(2) RELOCATE EXISTING CEILING MOUNTED WIRELESS ACCESS POINT INTO NEW CEILING, SEE NEW WORK FLOOR PLAN SHEET T201. PROTECT EXISTING WIRELESS ACCESS POINT WITH ASSOCIATED CONDUIT AND CABLING DURING CONSTRUCTION.

(2A) EXISTING WALL MOUNTED WIRELESS ACCESS POINT TO REMAIN, SEE NEW WORK FLOOR PLAN SHEET 201. PROTECT EXISTING WIRELESS ACCESS POINT WITH ASSOCIATED CONDUIT AND CABLING DURING CONSTRUCTION.

(2B) RELOCATE EXISTING WALL MOUNTED WIRELESS ACCESS POINT ONTO NEW WALL, SEE NEW WORK FLOOR PLAN SHEET T201. DEMOLISH ASSOCIATED CONDUIT AND CABLING BACK TO EXISTING CER.

(3) EXISTING INDOOR OR OUTDOOR CEILING/WALL MOUNTED IP SECURITY CAMERA TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.

(3A) DEMOLISH EXISTING INDOOR OR OUTDOOR CEILING/WALL MOUNTED IP SECURITY CAMERA, PROTECT AND TURN OVER TO OWNER.

(4) EXISTING SECURE DOOR WITH EXISTING CARD READER TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.

(4A) EXISTING SECURE DOOR WITH EXISTING CARD READER AND DOOR UNLOCK PUSH BUTTON RELEASE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.

(4B) DEMOLISH EXISTING SECURE DOOR WITH EXISTING CARD READER AND DOOR UNLOCK PUSH BUTTON RELEASE WITH ASSOCIATED CONDUIT AND CABLING BACK TO EXISTING ACCESS CONTROL PANEL IN EXISTING CER.

(4C) DEMOLISH EXISTING LOCKDOWN SWITCH WITH ASSOCIATED CONDUIT AND CABLING BACK TO EXISTING ACCESS CONTROL PANEL IN EXISTING CER.

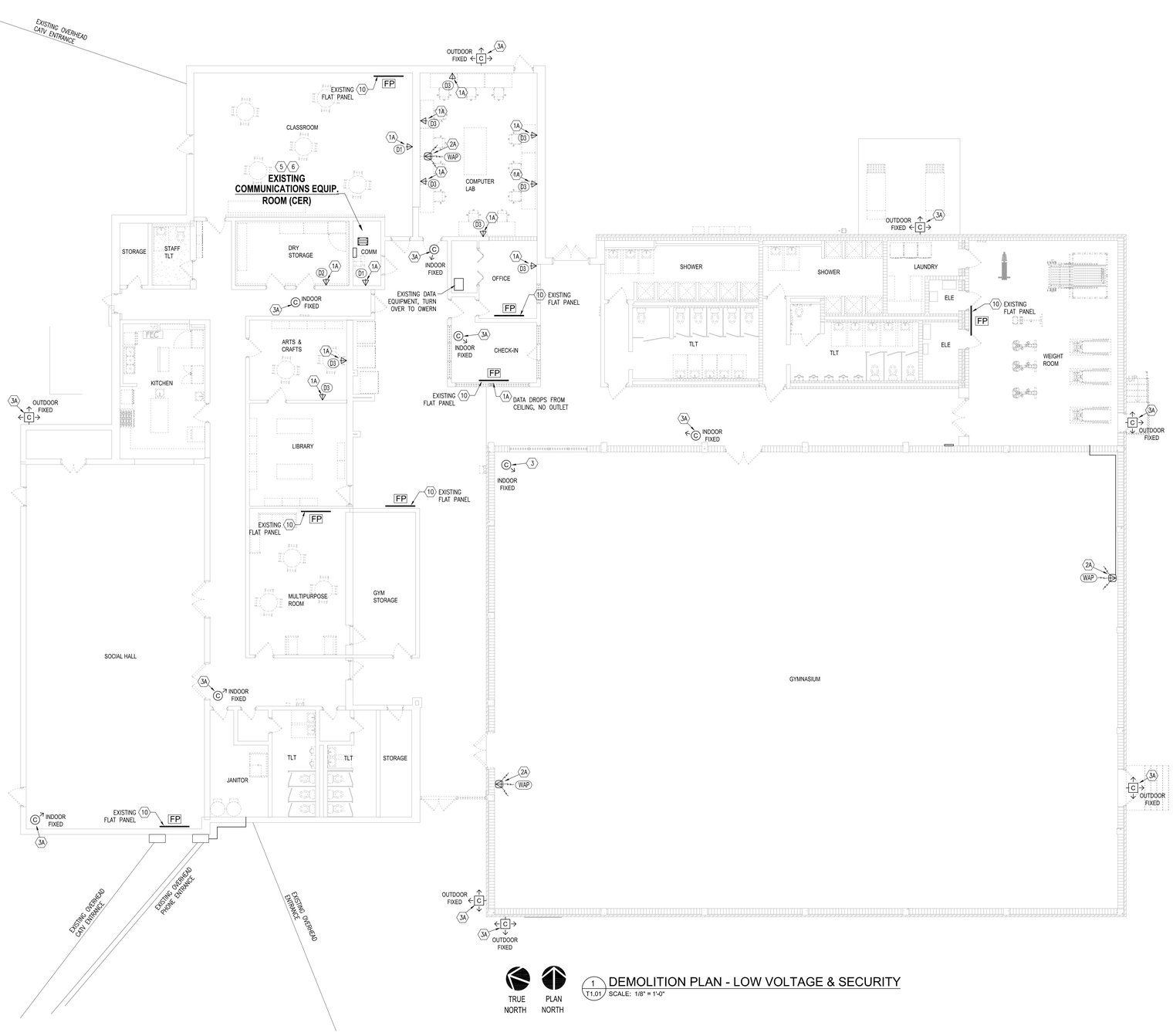
(5) WHERE NEEDED FOR SERVICES IN THE BUILDING UNDER INITIAL PROJECT PHASES, PULL BACK AND PROTECT EXISTING INCOMING SERVICE CABLES, RELOCATE EXISTING RACK AND TEMPORARY SERVICE DEMARCS TO LOCATION WITHIN THE PROTECTED PARTITION AREA. EXISTING EQUIPMENT TO REMAIN IN SERVICE AND BE PROTECTED FROM DUST AND DEBRIS DURING CONSTRUCTION UNTIL NEW COMMUNICATIONS ROOM CUTOVER. SEE ARCHITECTURAL DRAWINGS FOR PHASING PLAN. ENCAPSULATE WITH PLASTIC SHEETING AND PROTECT FROM DUST AND DEBRIS. MAINTAIN ELECTRICAL SERVICE, LIGHTING AND HVAC SERVICES THROUGHOUT CONSTRUCTION – PROVIDE TEMPORARY SERVICES AS REQUIRED. PROTECT ALL BACKBONE CABLING AND ALL HORIZONTAL CABLING UNTIL AFTER NEW ROOM CUTOVER.

(6) SCSC FIELD LOCATE, IDENTIFY AND MARK AND PROTECT EXISTING UNIT1 INCOMING FIBER OPTIC SERVICE AND ALL RELATED EQUIPMENT THROUGHOUT CONSTRUCTION. COORDINATE WITH OWNER'S IT STAFF PRIOR TO COMMENCEMENT OF DEMOLITION WORK.

(8) DEMOLISH EXISTING VOICE CABLING ALONG WITH ALL RELATED TERMINAL EQUIPMENT TO INCLUDE WIRING BLOCKS, PROTECTORS, PATCH CORDS, CROSS–CONNECTS AND ASSOCIATED EQUIPMENT COMPLETE TO INCLUDE VOICE BACKBONE CABLES TO EXISTING CAMPUS COMMUNICATIONS CLOSETS IN OTHER BUILDINGS. REQUEST ON–SITE MEETING WITH DISTRICT TELEPHONE TECH (RON MOSLEY) PRIOR TO COMMENCING DEMOLITION WORK.

(9) SEE ACCESS CONTROL SYSTEM DRAWINGS FOR PROTECTION OF EXISTING ACCESS CONTROL SYSTEM PANEL, POWER SUPPLIES, SECURE DOORS AND WIRING, CARD READERS AND ACS SYSTEM IN GENERAL THROUGHOUT CONSTRUCTION. SCSC FIELD LOCATE AND PROTECT EXISTING NETWORK CONNECTION TO ACS PANEL.

(10) EXISTING FLAT PANEL DISPLAY AND MOUNT TO REMAIN AND TO BE PROTECTED DURING CONSTRUCTION.



TRUE NORTH

PLAN NORTH

1 / T1.01 DEMOLITION PLAN - LOW VOLTAGE & SECURITY
SCALE: 1/8" = 1'-0"

EXISTING WIRELESS ACCESS POINTS & CAMERAS

WHERE EXISTING WIRELESS ACCESS POINTS AND CAMERAS ARE MOUNTED IN EXISTING CEILINGS OR WALLS SHOWN TO BE REMOVED ON THE ARCHITECTURAL DRAWINGS AND ARE TO BE RELOCATED, THE CONTRACTOR SHALL REMOVE THE ACCESS POINTS/CAMERAS AND MOUNTS PRIOR TO CEILING OR WALL DEMOLITION, RECORDING THE SERIAL NUMBER AND LOCATION FOR EACH AND PROVIDING A TYPED LIST TO THE OWNER. TURN OVER ALL DEVICES TO THE OWNER.

COMMUNICATIONS LEGEND

- (D2) EXISTING COMMUNICATIONS OUTLET WITH TWO JACKS.
- (D4) EXISTING COMMUNICATIONS OUTLET WITH FOUR JACKS.
- (WAP) EXISTING WIRELESS ACCESS POINT (WAP) MOUNTED IN CEILING.
- (FP) EXISTING FLAT PANEL DISPLAY.
- (C) EXISTING EXTERIOR IP SECURITY CAMERA.
- (C) EXISTING INTERIOR IP SECURITY CAMERA.

Graphic Scale

8 4 0 8FT 16FT

SCALE: 1/8" = 1'-0"

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REVISION 2	05/01/2026

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EXPIRES 07-31-26

COMMUNICATIONS DEMOLITION FLOOR PLAN

T1.05

COMMUNICATIONS LEGEND

MAIN LOBBY 101 — ARCHITECT'S ROOM NUMBER

D2 A — COMMUNICATIONS OUTLET (CO), D|# (NUMBER INDICATES NUMBER OF CABLES TERMINATED). SEE DETAILS. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET.

FB D4 A — COMMUNICATIONS OUTLET (CO) MOUNTED IN FLOOR BOX, TYPE "D|#" (NUMBER INDICATES NUMBER OF CABLES TERMINATED) AND POWER. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET. SEE ELECTRICAL DRAWINGS.

AP-X A — WIFI ACCESS POINT (AP) MOUNTED ON CEILING OR WALL AS INDICATED. SEE ACCESS POINT (AP) MOUNTING DETAILS. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET.

D2 A — SPECIAL SERVICE OUTLET (CO), TYPE 'D2'. SEE "SPECIAL SERVICES NOTE" AND PLANS. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET.

MON MON — FLAT PANEL DISPLAY WITH DATA/TV OUTLET. SEE AV DETAILS.

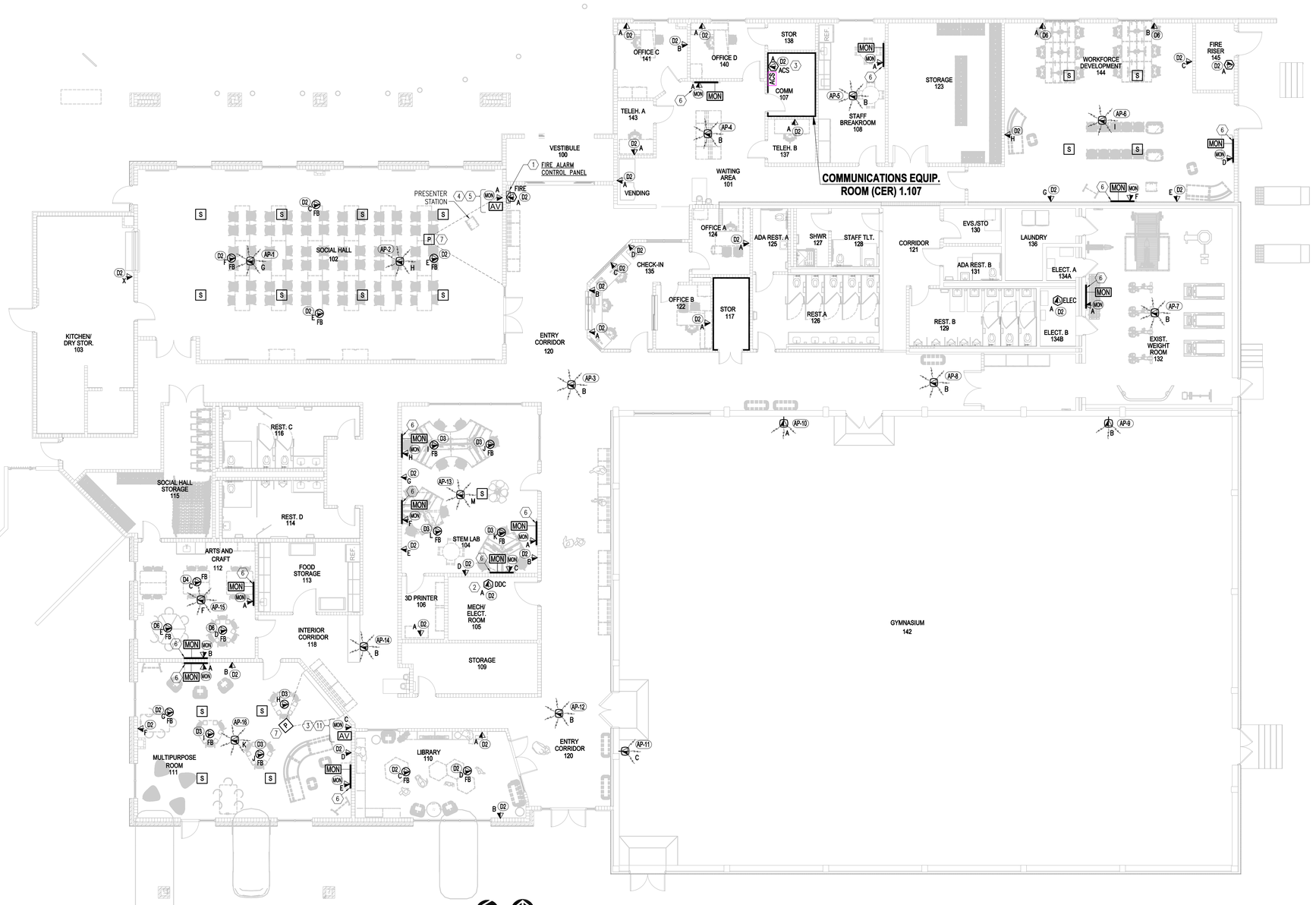
S — SOUND REINFORCEMENT SPEAKER, SEE AV DETAILS.

P — OFCI CEILING MOUNTED PROJECTOR, SEE AV DETAILS.

AV — AV INPUT WALL PLATE(S) AND SOURCE SELECTOR INPUT PLATE, SEE AV DETAILS.

COMMUNICATIONS NEW WORK FLOOR PLAN KEY NOTES:

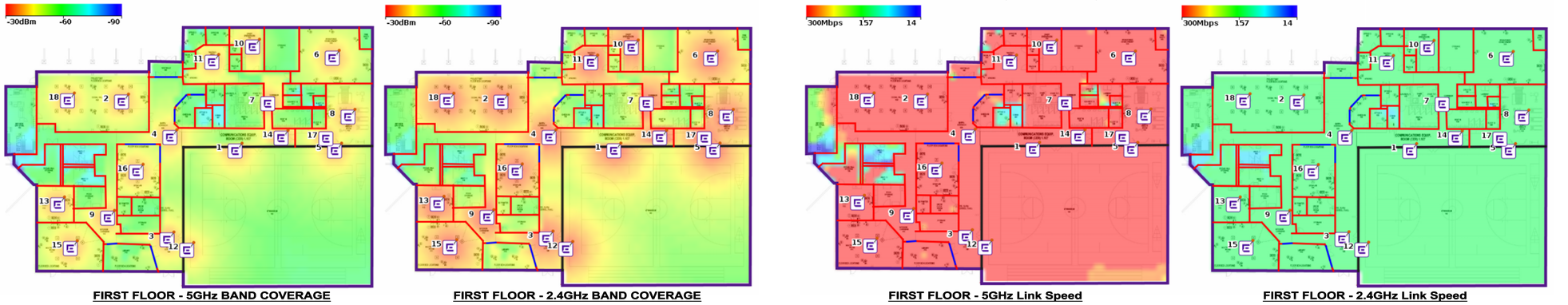
1. FIRE ALARM SYSTEM CONNECTION: SEE SPECIAL SERVICES NOTE. RUN CABLING CONTINUOUS IN CONDUIT. CONTRACTOR FIELD LOCATE FIRE ALARM DIALER AND RUN SPECIAL SERVICES TO DIALER. AT DIALER LOCATION TERMINATE CONDUIT IN 12"x12"x4" NEMA 1 PULL BOX ABOVE CEILING AND COIL 25 FEET OF EACH CABLE IN BOX. CONTINUATION OF CONDUIT TO FIRE ALARM DIALER PANEL OR RELATED ENCLOSURE AND TERMINATION OF CABLES ON FIRE ALARM EQUIPMENT SHALL BE BY THE FIRE ALARM SYSTEM INSTALLER. COORDINATE WITH THE GENERAL CONTRACTOR, THE OWNER'S PROJECT MANAGER, AND THE FIRE ALARM SYSTEM INSTALLER. SEE VOICE AND DATA SINGLE LINES FOR CABLING.
2. EMS/DDC SYSTEM CONNECTION: SEE SPECIAL SERVICES NOTE. RUN CABLING CONTINUOUS IN CONDUIT. STANDARD 'D2' OUTLET LABELED WITH "EMS/DDC" AND SERVING CLOSET. EXACT MOUNTING LOCATION UNDETERMINED – MOUNT OUTLET DIRECTLY ADJACENT TO OR INSIDE OF EMS/DDC PANEL AS REQUIRED BY DDC CONTRACTOR. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH THE OWNER'S PROJECT MANAGER, THE GENERAL CONTRACTOR, AND THE EMS/DDC SYSTEM INSTALLER. SEE VOICE AND DATA SINGLE LINES FOR CABLING.
3. SECURITY SYSTEM CONNECTION: SEE SPECIAL SERVICES NOTE. RUN CABLING CONTINUOUS IN CONDUIT AND COIL 20 FT SLACK CABLE ABOVE CEILING IN PULL BOX ABOVE THE SECURITY PANEL (DO NOT INSTALL OUTLET). CONTINUATION OF CONDUIT TO SECURITY PANEL OR RELATED ENCLOSURE AND TERMINATION OF CABLES ON SECURITY EQUIPMENT SHALL BE BY THE SECURITY SYSTEM INSTALLER. COORDINATE WITH THE GENERAL CONTRACTOR, THE OWNER'S PROJECT MANAGER, AND THE SECURITY SYSTEM INSTALLER. SEE VOICE AND DATA SINGLE LINES FOR CABLING. GENERAL CONTRACTOR PROVIDE SERVICES OF CERTIFIED SECURITY SUBCONTRACTOR TO INSTALL CABLE FROM PULL BOX TO SECURITY CONTROL PANEL AND TO COORDINATE CONNECTIONS AND SERVICES WITH THE SCSC AND THE OWNER'S PROJECT MANAGER.
4. GROUP D2, A/V, TV AND ASSOCIATED POWER OUTLETS CLOSELY TOGETHER AT PRESENTER STATION. MOUNT 'A/V SOURCE SELECT WALL PLATE' AT 48" A.F.F. MOUNT 'A/V INPUT WALL PLATE', D2 OUTLET, AND TV OUTLET AT 24" A.F.F. MOUNT POWER OUTLET AT 18" A.F.F. SEE ROUGH-IN DETAILS AND A/V DIAGRAMS. IN ADDITION, SCSC PROVIDE ONE CAT 6 CABLE DIRECTLY CONNECTED TO 'A/V SOURCE SELECT WALL PLATE'.
5. PROVIDE COMPLETE A/V CONDUIT ROUGH-IN AND COMPLETE A/V SYSTEM, A/V CONTRACTOR FURNISH BACKBOXES TO ELECTRICAL CONTRACTOR. SEE AV DETAILS.
6. OFCI WALL MOUNTED MONITOR. CONFIRM SIZE AND MODEL NUMBER PRIOR TO WALL BLOCKING AND ROUGH-IN. SEE WALL MOUNT AND OUTLET DETAILS, ADAPT FOR ACTUAL MONITOR SIZE.
7. OFCI CEILING MOUNTED PROJECTOR. CONFIRM MODEL NUMBER AND ADJUST LOCATION FOR MAXIMUM PROJECTOR THROW.



TRUE NORTH / PLAN NORTH

1 / T1.01 NEW WORK - FIRST FLOOR PLAN - LOW VOLTAGE
SCALE: 1/8" = 1'-0"

ESTIMATED WIRELESS ACCESS POINT COVERAGE



WIRELESS HEATMAP PROVIDED FOR COVERAGE REFERENCE – BASED ON SIMILAR ACCESS POINTS. FINAL RESULTS WILL BE DEPENDANT ON PROVIDED ACCESS POINTS, MOUNTING METHODS, FINAL BUILDING CONSTRUCTION, ANTENNA TYPE, POWER LEVEL & HARDWARE CONFIGURATION.

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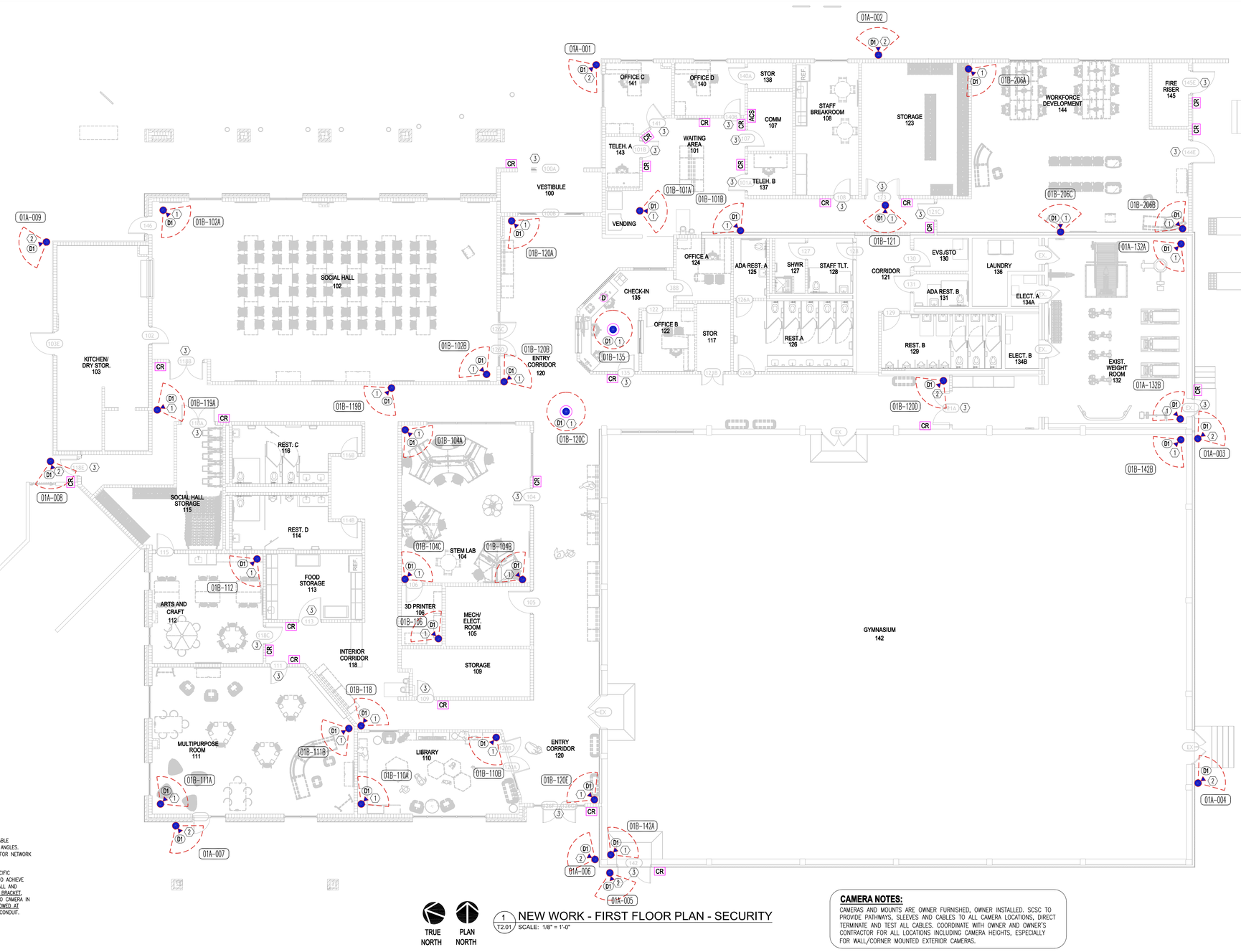
COMMUNICATIONS FLOOR PLANS

T1.01



TRUE NORTH

PLAN NORTH

1 T2.01 NEW WORK - FIRST FLOOR PLAN - SECURITY
SCALE: 1/8" = 1'-0"

SECURITY NEW WORK FLOOR PLAN KEY NOTES:

1. OFCI INDOOR FIXED CEILING/WALL MOUNT VANDALPROOF CAMERA. COORDINATE LOCATION FOR CONDUIT AND CABLE TERMINATION WITH OWNER'S PROJECT MANAGER IN THE FIELD PRIOR TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. EXTEND ALL WIRING TO SERVING CER CONTINUOUS IN 3/4" HOMERUN CONDUIT. PROVIDE CATEGORY 6 CABLE FOR NETWORK POE CONNECTION. DIRECT TERMINATE ALL CAMERA OUTLETS WITH REVCONNECT
2. OFOI OUTDOOR CAMERA, WALL OR CORNER. SEE PLAN AND COORDINATE WITH OWNER'S CONTRACTOR FOR SPECIFIC REQUIREMENTS. COORDINATE LOCATION WITH OWNER'S PROJECT MANAGER IN THE FIELD PRIOR TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. AT THE CAMERA MOUNTING PLATE, DRILL AND PROVIDE A 1" CONDUIT SLEEVE THRU WALL AND BUILDING STRUCTURAL ELEMENTS AS REQUIRED TO RUN ALL CAMERA CABLES CONCEALED THROUGH MOUNTING BRACKET, ADAPTER AND SLEEVE/CONDUIT TO 6"x6"x4" NEMA 1 JUNCTION BOX MOUNTED INDOORS DIRECTLY ADJACENT TO CAMERA IN ACCESSIBLE LOCATION ABOVE CEILING. UNDER NO CIRCUMSTANCES WILL EXPOSED CONDUIT OR WIRING BE ALLOWED AT CAMERA MOUNTING. EXTEND ALL WIRING FROM JUNCTION BOX TO SERVING CER CONTINUOUS IN 1" HOMERUN CONDUIT. PROVIDE CATEGORY 6 CABLE FOR NETWORK POE CONNECTION.
3. SEE DOOR HARDWARE AND ACCESS CONTROL DETAILS FOR DOOR ROUGH-IN REQUIREMENTS.

CAMERA NOTES:

CAMERAS AND MOUNTS ARE OWNER FURNISHED, OWNER INSTALLED. SCSC TO PROVIDE PATHWAYS, SLEEVES AND CABLES TO ALL CAMERA LOCATIONS, DIRECT TERMINATE AND TEST ALL CABLES. COORDINATE WITH OWNER AND OWNER'S CONTRACTOR FOR ALL LOCATIONS INCLUDING CAMERA HEIGHTS, ESPECIALLY FOR WALL/CORNER MOUNTED EXTERIOR CAMERAS.

CPA CCTV LEGEND

- CCTV CAMERA, INDOOR OR OUTDOOR
- MULTI-LENS OR SINGLE LENS WIDE ANGLE CCTV CAMERA, INDOOR OR OUTDOOR
- 360° CCTV CAMERA, INDOOR OR OUTDOOR
- 05A-104 CAMERA NUMBER, SEE NOMENCLATURE.

ACCESS CONTROL SYSTEM LEGEND

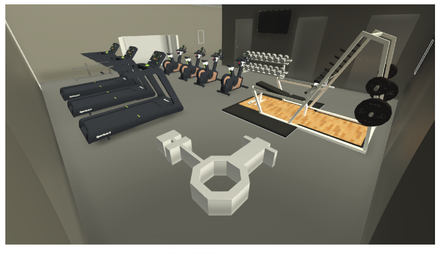
- SECRETARY 29 — ARCHITECT'S ROOM NUMBER, SEE "GENERAL LABELING NOTE"
- ACS — ACCESS CONTROL SYSTEM PANEL
- CR — CARD READER, SEE ACCESS CONTROL DIAGRAMS
- D — DURESS BUTTON, SILENT DURESS, SEE ACCESS CONTROL DIAGRAMS

SAMPLE CAMERA VIEWS

CAMERA -

CAMERA -

CAMERA VIEWS ARE BASED OFF AXIS P3278-LV CAMERAS AND PROVIDED FOR INTENDED COVERAGE ONLY. CAMERAS ARE PROVIDED AND INSTALLED BY THE OWNER'S VENDOR SO CAMERA VIEWS WILL VARY BASED ON CAMERA MODEL, INSTALLATION LOCATION AND HARDWARE SETTINGS.



CAMERA -

SISU CONSULTING LLC
2172 W. Nine Mile Rd. #600
Pensacola, FL 32534
850-384-2451

GMC
GOODWYN MILLS CAWOOD, LLC.
720 Bayfront Parkway, Suite 200
Pensacola, FL 32502
T: 850.432.0706
GMCNETWORK.COM
Gerald Steven Jernigan - Qualifying Agent
FL Architect AR 0009953

ISSUE	DATE
PERMIT SET	12/08/2025

DRAWN BY: KRO
CHECKED BY: JJO

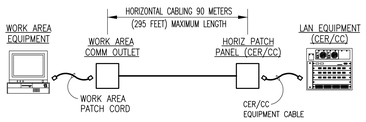
FRICKER RESOURCE CENTER RENOVATION PROJECT

900 N F St, Pensacola, FL 32501-2887

GMC # APEN250016

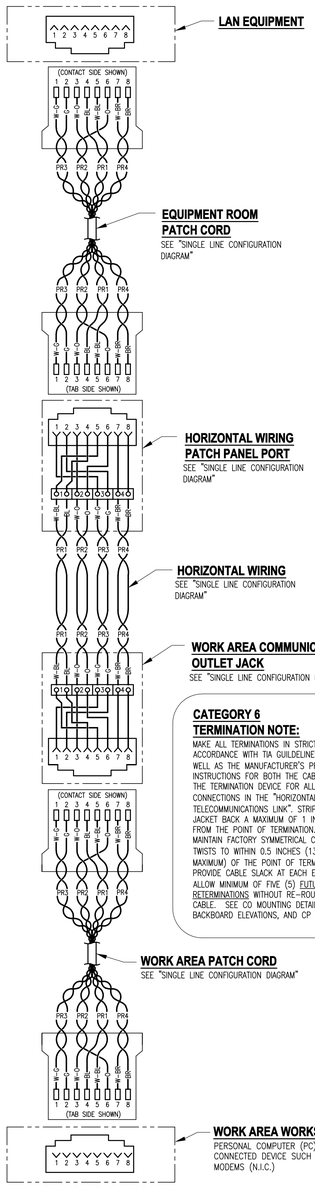
COMMUNICATIONS FLOOR PLANS

T1.50



TIA-568 ALLOWS A TOTAL OF 10 METERS (33 FEET) FOR THE TOTAL OF THE WORK AREA PATCH CORD, THE CER/CC EQUIPMENT CABLE, AND A SECOND EQUIPMENT CABLE OR PATCH CORD IN THE CER/CC. THE DESIGN FOR THIS PROJECT DOES NOT UTILIZE A SECOND EQUIPMENT CABLE OR PATCH CORD IN THE CER/CC.

HORIZONTAL CABLING CHANNEL

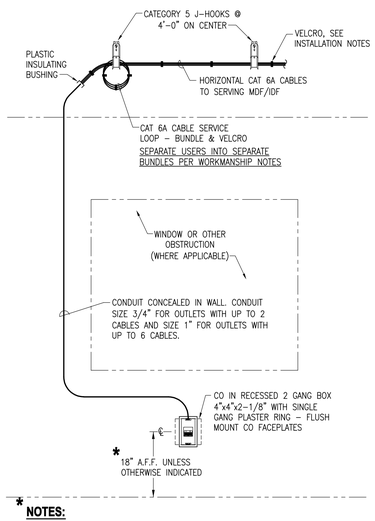


CATEGORY 6 TERMINATION NOTE:

MAKE ALL TERMINATIONS IN STRICT ACCORDANCE WITH TIA GUILDELINES AS WELL AS THE MANUFACTURER'S PRINTED INSTRUCTIONS FOR BOTH THE CABLE AND THE TERMINATION DEVICE FOR ALL FIELD CONNECTIONS IN THE "HORIZONTAL TELECOMMUNICATIONS LINK". STRIP CABLE JACKET BACK A MAXIMUM OF 1 INCH FROM THE POINT OF TERMINATION. MAINTAIN FACTORY SYMMETRICAL CABLE TWISTS TO WITHIN 0.5 INCHES (13 MM MAXIMUM) OF THE POINT OF TERMINATION. PROVIDE CABLE SLACK AT EACH END TO ALLOW MINIMUM OF FIVE (5) FUTURE RETERMINATIONS WITHOUT RE-ROUTING CABLE. SEE CO MOUNTING DETAILS, BACKBOARD ELEVATIONS, AND CP DETAILS.

TYPICAL POINT-TO-POINT WIRING DIAGRAM WORK AREA WORKSTATION TO LAN EQUIPMENT CATEGORY 6 "HORIZONTAL TELECOMMUNICATIONS CHANNEL"

NOT TO SCALE



NOTES:

COMMUNICATIONS OUTLET (CO) MOUNTING HEIGHT MAY VARY AT CABINETS OR CASEWORK. LOCATE AND MOUNT CO's AS DIRECTED BY ARCHITECT IN FIELD. MATCH HEIGHT OF ADJACENT ELECTRICAL POWER OUTLETS.

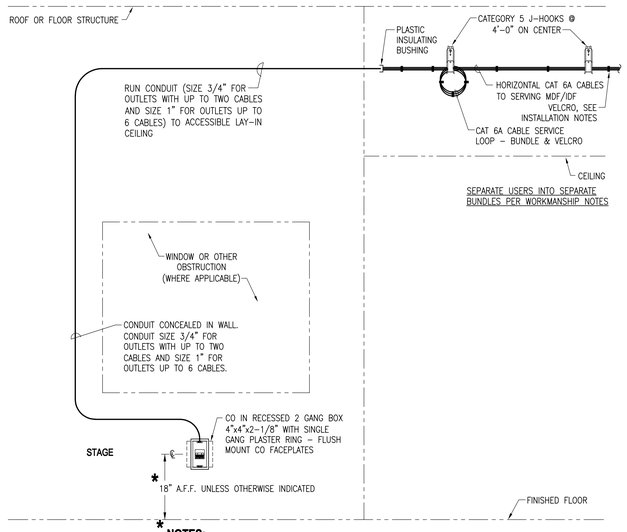
MOUNTING HEIGHT OF COMMUNICATIONS OUTLET (CO) SHOWN TO BE MOUNTED ABOVE COUNTER (AC) SHALL BE COORDINATED WITH THE ARCHITECT AND THE GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.

REFER TO ARCHITECTURAL DRAWINGS INTERIOR ELEVATIONS FOR CASEWORK DRAWINGS.

TYPICAL FLUSH MOUNT COMMUNICATIONS OUTLET (CO) MOUNTING DETAIL

NOT TO SCALE

◀ D1 ◀ D2 ◀ D4



NOTES:

1) COMMUNICATIONS OUTLET (CO) MOUNTING HEIGHT MAY VARY AT CABINETS OR CASEWORK. LOCATE AND MOUNT CO's AS DIRECTED BY ARCHITECT IN FIELD. MATCH HEIGHT OF ADJACENT ELECTRICAL POWER OUTLETS.

2) MOUNTING HEIGHT OF COMMUNICATIONS OUTLET (CO) SHOWN TO BE MOUNTED ABOVE COUNTER (AC) SHALL BE COORDINATED WITH THE ARCHITECT AND THE GENERAL CONTRACTOR IN THE FIELD PRIOR TO ROUGH-IN.

3) REFER TO ARCHITECTURAL DRAWINGS INTERIOR ELEVATIONS FOR CASEWORK DRAWINGS.

TYPICAL FLUSH MOUNT COMMUNICATIONS OUTLET (CO) MOUNTING DETAIL - EXPOSED STRUCTURE AREA

NOT TO SCALE ◀ D4

ATTACHMENT NOTES

ALL ATTACHMENTS TO WALLS SHALL BE MADE WITH HIGH STRENGTH/HIGH LOAD COMMERCIAL GRADE FASTENERS. TAP-CONS OR RAM-SET TYPE FASTENERS ARE NOT ALLOWABLE. ATTACHMENTS AT VARIOUS BUILDING WALL CONSTRUCTIONS SHALL BE AS FOLLOWS AS A MINIMUM REQUIREMENT, COMPLY WITH MORE STRINGENT FASTENER SPECIFICATIONS WHEN REQUIRED BY THE LOADING APPLICATION OR RECOMMENDED BY THE MANUFACTURER OF EACH SYSTEM COMPONENT:

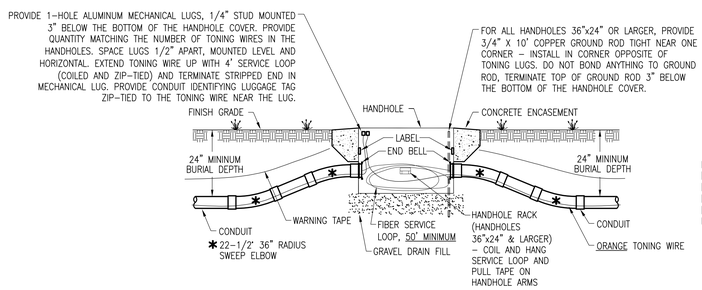
1. AT FRAMED WALLS WITH GYP BOARD FINISH OR AT OPEN BLOCK CELLS OF CMU WALLS PROVIDE TOGGLER 'SNAP-TOGGLE' TOGGLE BOLTS, NO EXCEPTIONS.
2. AT BLOCK WEBS OF CMU WALLS OR AT CONCRETE WALLS, PROVIDE COMMERCIAL GRADE HIGH LOAD EXPANSION ANCHORS SUCH AS TOGGLER 'ALLIGATOR' SOLID-WALL ANCHORS.
3. FASTENERS SHALL BE FULL SIZE OF FASTENER HOLES/OPENING IN EQUIPMENT TO BE SECURED (ALLOWING FOR STANDARD CLEARANCES).
4. ALL EXTERIOR FASTENERS WILL BE 316 STAINLESS STEEL.

CATEGORY 6A CABLE J-HOOK SCHEDULE

J-HOOK SIZE, ERICO CADDY CAT HP SERIES PART #	MAXIMUM BUNDLE SIZE (NUMBER OF CABLES) CATEGORY 6A	NOTES
CAT32HP	24	NOTES 1, 2, 3 & 4

NOTES:

1. USE CADDY CAT32HP SIZE J-HOOKS FOR ALL CABLE TYPES AND APPLICATIONS.
2. LIMIT BUNDLE SIZE TO 24 CABLES MAXIMUM FOR ALL CABLE TYPES AND APPLICATIONS.
3. SEPARATE USERS (CPA, CBP, CL1, CL2...ETC) ON SEPARATE J-HOOKS.
4. SEPARATE SYSTEM BUNDLES (USER, WAP, CAMERA, TV, ETC) ON SEPARATE J-HOOKS.



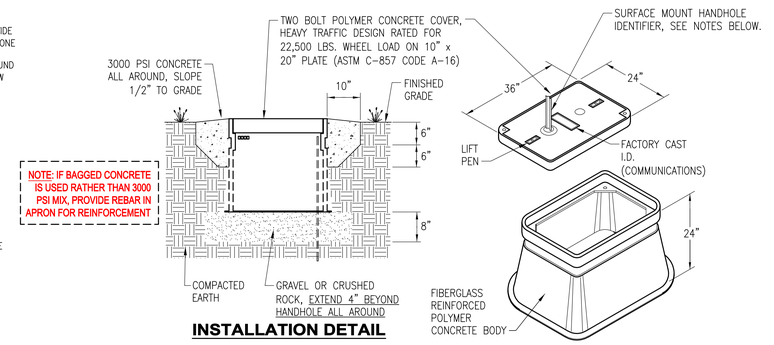
TYPICAL HANDHOLE CONDUIT ENTRY DETAIL

NOT TO SCALE

COMMUNICATIONS HANDHOLE NOTES:

1. PLUG ALL CONDUITS DURING CONSTRUCTION AS SOON AS THEY ARE PLACED IN THE GROUND TO KEEP DEBRIS AND WATER FROM ENTERING. SEAL ALL CONDUITS WITH DUCT PLUG AFTER CABLE PULL, FOAM WILL NOT BE ACCEPTED.
2. ALL CONDUITS MUST ENTER THE SIDE OF THE HANDHOLE, ENTRY INTO THE BOTTOM WILL NOT BE ACCEPTED.
3. PROVIDE RECTANGULAR POLYURETHANE LABEL (DAS MANUFACTURING) ABOVE ALL CONDUITS. LABEL SHALL CONDUIT NUMBER WITHIN HANDHOLE (INCREMENTALLY NUMBER EACH CONDUIT WITHIN THE HANDHOLE), USER AND TERMINATION POINT (I.E. 2-CPA-FV09.1.1-4)

CONDUIT NUMBER
USER DESIGNATOR
TERMINATING HANDHOLE CONDUIT NUMBER
TERMINATING HANDHOLE NUMBER (OTHER END)



INSTALLATION DETAIL

CONSTRUCTION DETAIL

COMMUNICATIONS HANDHOLE NOTES:

1. HANDHOLE SHALL BE NEWBASIS FCA243624-00390 WITH ASSEMBLY COVER (LOGO=COMMUNICATIONS). INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THESE REQUIREMENTS. PROVIDE WITH 4 RACKS.
2. TERMINATE CONDUITS ENTERING HANDHOLE WITH END BELL (CARLON E997). CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2" SWEEP ELBOWS. SEE "TYPICAL CONDUIT ENTRY DETAIL - COMMUNICATIONS HANDHOLE".
3. WHERE HANDHOLE IS INSTALLED IN LANDSCAPING OR GRASS, PROVIDE SURFACE MOUNT IDENTIFIER, FLEXSTAKE SM700 OR EQUAL, 19" TALL, COLOR ORANGE. SECURE TO HANDHOLE COVER WITH EPOXY OR THERMO PADS.

PROVIDER COMMUNICATIONS HANDHOLE TYPICAL DETAILS

NOT TO SCALE

SISU CONSULTING LLC
2172 W. Nine Mile Rd. #600
Pensacola, FL 32534
850-384-2451

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720 Bayfront Parkway, Suite 200
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Gerald Steven Jernigan - Qualifying Agent
FL Architect AR 0009953

ISSUE	DATE
PERMIT SET	12/08/2025
DRAWN BY:	KRC
CHECKED BY:	JJO

FRICKER RESOURCE CENTER RENOVATION PROJECT
900 N F St, Pensacola, FL 32501-2887
GMC # APEN250016

COMMUNICATIONS TYPICAL DETAILS

T2.01

RACEWAY, FACEPLATE AND DEVICE COLOR NOTE

VERIFY ALL FACEPLATE AND DEVICE COLORS WITH THE ARCHITECT AND OWNER'S PROJECT MANAGER PRIOR TO PRE-INSTALLATION SUBMITTALS. PROVIDE ALTERNATE COLOR STANDARD WITH THE MANUFACTURER AT NO ADDITIONAL COST TO THE OWNER IF SO DIRECTED. COORDINATE WITH THE ENGINEER PRIOR TO ORDERING MATERIALS.

TV IDENTIFICATION NOMENCLATURE

TV 200.A
- ROOM NUMBER IN WHICH "TV" IS LOCATED
- OUTLET IDENTIFIER (ROOMS WITH TWO OR MORE OUTLETS ONLY)
- CER.1.120 — SERVING CER

200.A INDICATES "TV" OUTLET "A" LOCATED IN ROOM 200 AND SERVED BY CER.1.120

CAMERA OUTLET IDENTIFICATION NOMENCLATURE

01A-128
- CAMERA ZONE IN WHICH CAMERA IS LOCATED
- CAMERA IDENTIFIER WITHIN ZONE
- CER.5.151 — SERVING CER

01A-128 INDICATES CAMERA OUTLET '128' LOCATED ZONE '01A' AND SERVED BY CER.5.151

CO IDENTIFICATION NOMENCLATURE

CO 200.A
- ROOM NUMBER IN WHICH "CO" IS LOCATED
- OUTLET IDENTIFIER (ROOMS WITH TWO OR MORE OUTLETS ONLY)
- CER.5.151 — SERVING CER

200.A INDICATES "CO" OUTLET "A" LOCATED IN ROOM 200 AND SERVED BY CER.5.151

CO/TV PORT NUMBER IDENTIFICATION NOMENCLATURE

C1.A.12
- PATCH PANEL CONSECUTIVE PORT NUMBER
- PATCH PANEL IDENTIFIER
- PATCH PANEL USER IDENTIFIER

C1.A.12 INDICATES "CO" OUTLET TERMINATED IN CRUISE LINE #1 PATCH PANEL "A" PORT #12.

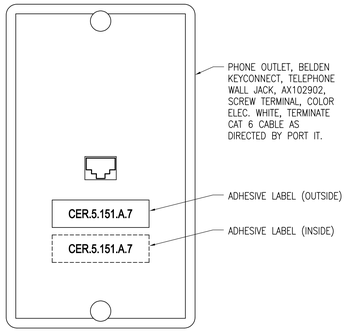
PATCH PANEL USER IDENTIFIERS:
P = PORT
C1 = CRUISE LINE #1
C2 = CRUISE LINE #2
C3 = CRUISE LINE #3
C4 = CRUISE LINE #4
WAP = WIRELESS ACCESS POINTS
CBP = C.B.P.
R = C.B.P. RADIO
BLD = BUILDING (SPECIAL)
CC = CCTV SECURITY CAMERAS
TV = AUDIO VIDEO SYSTEM MONITORS

FACEPLATE LABELING NOTE:

ALL FACEPLATE LABELS ARE TO BE LASER PRINTED USING THE BELDEN TEMPLATE TOOL. LABELS SHALL BE INSERTED UNDER THE PLASTIC COVER, NOT ADHERED TO IT, ALL LABELS SHALL BE ONE PIECE WITH STAIGHT/LEVEL TEXT.

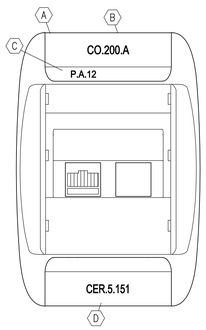
GENERAL LABELING NOTE:

1. ROOM NUMBERS INDICATED THIS SHEET TO INCLUDE COMMUNICATIONS ROOM NUMBERS ARE PROTOTYPICAL TO INDICATE REQUIRED LABELING METHODS AND ARE NOT BASED ON ACTUAL ROOM NUMBERS FOR THIS PROJECT.
2. ALL LABELS SHALL BE BASED ON THE FINAL ARCHITECTURAL ROOM NAME AND NUMBERS. OBTAIN FINAL ROOM NUMBERS FROM THE ARCHITECT PRIOR TO LABELING.
3. ALL LABELS FOR COMMUNICATIONS OUTLETS AND HORIZONTAL PATCH PANELS SHALL BE PRODUCED USING FACTORY NON-ADHESIVE LABEL SHEETS FOR LASER PRINTERS MANUFACTURED FOR THE SPECIFIC DEVICE AND USING LABELING SOFTWARE PROVIDED BY MANUFACTURER'S REPRESENTATIVE.
4. ALL LABELS SHALL BE HEIGHT OF PLASTIC LABEL HOLDERS AND SAME HEIGHT AND WIDTH AS INDIVIDUAL PAPER LABELS FACTORY FURNISHED WITH THE COMMUNICATIONS OUTLETS OR PATCH PANEL LABEL HOLDERS (LABELS SHALL COMPLETELY FILL PLASTIC LABEL HOLDERS).
5. ALL LABELS SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER, STRAIGHT AND CENTERED ON LABEL HOLDERS.



PHONE OUTLET

NOT TO SCALE



TYPE "D1" CO KEY NOTES:

(A) 1 PORT FLAT FACEPLATE, COLOR ELEC. WHITE, BELDEN AX104495. PROVIDE WITH ONE 2-PORT FLAT INSERT AND BLANK INSERTS TO FILL FACEPLATE. PROVIDE ONE REVCONNECT 10GX CATEGORY 6A 8-PIN JACKS AND ONE BLANK, JACK COLOR AS REQUIRED FOR USER.

(B) LASER PRINTED LABEL INDICATING OUTLET IDENTIFIER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

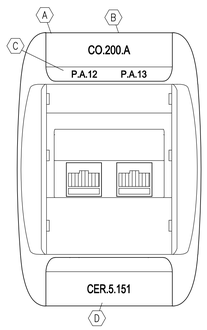
(C) LASER PRINTED LABEL INDICATING USER, SERVING HORIZONTAL PATCH PANEL AND PORT NUMBER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

(D) LASER PRINTED LABEL INDICATING SERVING CER/CC. TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

TYPE "D1" COMMUNICATIONS OUTLET (CO)

NOT TO SCALE

(D1 = ONE DATA/VOICE) D1



TYPE "D2" CO KEY NOTES:

(A) 2 PORT FLAT FACEPLATE, COLOR ELEC. WHITE, BELDEN AX104495. PROVIDE WITH ONE 2-PORT FLAT INSERT AND BLANK INSERTS TO FILL FACEPLATE. PROVIDE TWO REVCONNECT 10GX CATEGORY 6A 8-PIN JACKS, JACK COLOR AS REQUIRED FOR USER.

(B) LASER PRINTED LABEL INDICATING OUTLET IDENTIFIER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

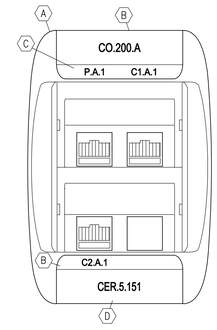
(C) LASER PRINTED LABEL INDICATING USER, SERVING HORIZONTAL PATCH PANEL AND PORT NUMBER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

(D) LASER PRINTED LABEL INDICATING SERVING CER/CC. TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

TYPE "D2" COMMUNICATIONS OUTLET (CO)

NOT TO SCALE

(D2 = TWO DATA/VOICE) D2



TYPE "D3" CO KEY NOTES:

(A) 3 PORT ANGLED FACEPLATE, COLOR ELEC. WHITE, BELDEN AX104495. PROVIDE WITH TWO 2-PORT FLAT INSERTS AND BLANK INSERTS TO FILL FACEPLATE. PROVIDE THREE REVCONNECT 10GX CATEGORY 6A 8-PIN JACKS AND ONE BLANK, JACK COLOR AS REQUIRED FOR USER.

(B) LASER PRINTED LABEL INDICATING OUTLET IDENTIFIER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

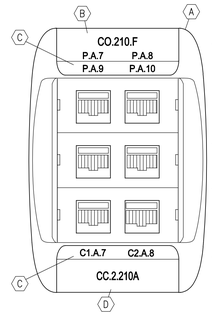
(C) LASER PRINTED LABEL INDICATING USER, SERVING HORIZONTAL PATCH PANEL AND PORT NUMBER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

(D) LASER PRINTED LABEL INDICATING SERVING CER/CC. TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

TYPE "D3" COMMUNICATIONS OUTLET (CO)

NOT TO SCALE

(D3 = THREE DATA/VOICE) D3



TYPE "D6" CO KEY NOTES:

(A) SINGLE GANG FACEPLATE, COLOR ELECTRIC WHITE, BELDEN AX102431. PROVIDE WITH FACTORY CLEAR TOP LABEL COVER AND ADDITIONAL BELDEN AX101773 CLEAR BOTTOM LABEL COVER. PROVIDE WITH THREE 2 PORT FLUSH INSERTS, COLOR ELECTRIC WHITE AND SIX TIA CATEGORY 6A 8-PIN MODULAR JACKS, BELDEN REVCONNECT 10GX RVAMJKUxx, COLORS AS REQUIRED FOR USERS.

(B) LASER PRINTED LABEL INDICATING OUTLET IDENTIFIER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

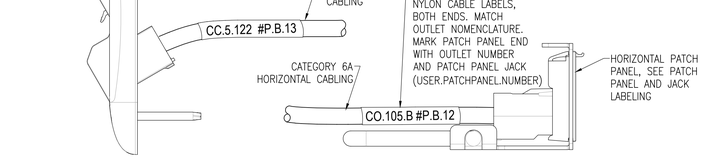
(C) LASER PRINTED LABEL INDICATING SERVING HORIZONTAL PATCH PANEL ALPHA IDENTIFIER AND JACK PORT NUMBER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

(D) LASER PRINTED LABEL INDICATING SERVING CER/CC/CP. TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

TYPE "D6" COMMUNICATIONS OUTLET (CO)

NOT TO SCALE

(D6 = SIX DATA/VOICE) D6

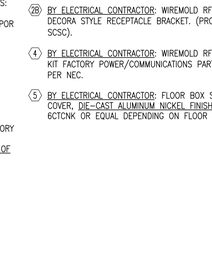


FACEPLATE **PATCH PANEL**

HORIZONTAL CABLE IDENTIFIER TAGS

NOT TO SCALE

TAGS APPLY FOR ALL HORIZONTAL CABLES, INCLUDING IN NEMA ENCLOSURES



TYPE "D1" CO KEY NOTES:

(A) 1 PORT FLAT FACEPLATE, COLOR ELEC. WHITE, BELDEN AX104495. PROVIDE WITH ONE 2-PORT FLAT INSERT AND BLANK INSERTS TO FILL FACEPLATE. PROVIDE ONE REVCONNECT 10GX CATEGORY 6A 8-PIN JACKS AND ONE VIDEO COAX JACK, JACK COLOR AS REQUIRED FOR USER.

(B) LASER PRINTED LABEL INDICATING OUTLET IDENTIFIER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

(C) LASER PRINTED LABEL INDICATING USER, SERVING HORIZONTAL PATCH PANEL AND PORT NUMBER – SEE "CO IDENTIFICATION NOMENCLATURE". TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

(D) LASER PRINTED LABEL INDICATING SERVING CER/CC. TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.

TYPE "MON" COMMUNICATIONS OUTLET (CO)

NOT TO SCALE

(MON = ONE DATA/VOICE & 1 COAX) MON

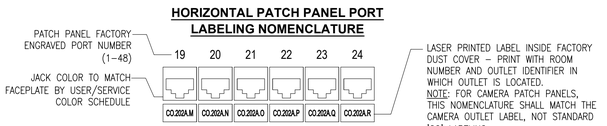
CATEGORY 6A HORIZONTAL TELECOMMUNICATIONS CHANNEL TERMINATION/LABELING REQUIREMENTS

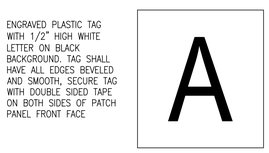
1. TERMINATE CATEGORY 6A HORIZONTAL CABLING ON HORIZONTAL PATCH PANELS IN NUMERICAL ORDER BY ROOM NUMBER. REFER TO FLOOR PLANS FOR ROOM NUMBER AND LOCATION. TERMINATE JACKS FOR EACH 'CO' SEQUENTIALLY IN ORDER OF ASSIGNED PATCH PANEL PORT NUMBER.
2. PROVIDE OVERALL IDENTIFICATION TAG FOR EACH HORIZONTAL PATCH PANEL IN ACCORDANCE WITH "HORIZONTAL PATCH PANEL I.D. NOMENCLATURE". TAG CONSTRUCTION AND LAYOUT SHALL BE PER "TYPICAL HORIZONTAL PATCH PANEL LAMINATED I.D. TAG DETAIL".
3. PROVIDE ENGRAVED TAG FOR EACH HORIZONTAL PATCH PANEL INDICATING LETTER IDENTIFIER. SEE "TYPICAL HPP ENGRAVED TAG DETAIL."

TYPICAL HPP ENGRAVED TAG DETAIL

NOT TO SCALE

HORIZONTAL PATCH PANEL PORT LABELING NOMENCLATURE





TYPICAL HORIZONTAL PATCH PANEL ENGRAVED TAG DETAIL

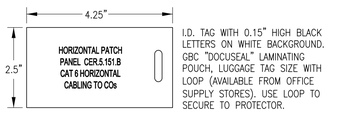
NOT TO SCALE

SEE "COMMUNICATIONS TYPICAL LABELING DETAILS"

HORIZONTAL PATCH PANEL I.D. NOMENCLATURE

CER.5.151.B
- HORIZONTAL PATCH PANEL IDENTIFIER
- CER NUMBER

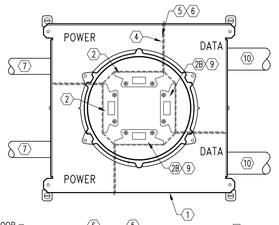
CER.5.151.B INDICATES THE SECOND HORIZONTAL PATCH PANEL IN CER.5.151 (LETTER PATCH PANELS BEGINNING WITH 'A' TOP TO BOTTOM AND LEFT TO RIGHT)



I.D. TAG WITH 0.15" HIGH BLACK LETTERS ON WHITE BACKGROUND. GBC "DOCUSEAL" LAMINATING POUCH, LUGGAGE TAG SIZE WITH LOOP (AVAILABLE FROM OFFICE SUPPLY STORES). USE LOOP TO SECURE TO PROTECTOR.

TYPICAL HORIZONTAL PATCH PANEL LAMINATED I.D. TAG DETAIL

NOT TO SCALE



TYPICAL FLOOR BOX DETAIL - AT GRADE

NOT TO SCALE

FB D4 = 4 CAT 6 JACKS IN ONE "D4" CO + POWER

FLOOR BOX LOCATION NOTE:

PRIOR TO INSTALLING FLOOR BOXES AND ASSOCIATED CONDUITS AND POWER OBTAIN DIMENSIONS FROM ARCHITECT FOR FLOOR BOX PLACEMENT. DO NOT SCALE FLOOR BOX LOCATIONS FROM 'TEL' SHEETS. FINAL FLOOR BOX LOCATIONS SHALL BE DETERMINED BY ARCHITECT BASED ON FINAL FURNITURE PLACEMENT. REQUEST INFORMATION THRU GENERAL CONTRACTOR IN WRITING.

FLOOR BOX KEY NOTES:

(1) BY ELECTRICAL CONTRACTOR: RECTANGULAR 4-GANG OR 2-GANG (PER FLOORPLAN NOTES) ON GRADE CONCRETE RATED FLOOR BOX, WIREMOLD (OR EQUAL BY HUBBLE) RFB4E-OG FOR 4-GANG NON-RATED, RFB2E-OG FOR 2-GANG NON-RATED, RFB4S-FC12 FOR RATED 4-GANG, RFB2S-FC12 FOR RATED 2-GANG. PROVIDE WITH SURFACE STYLE SOLID DIE-CAST ALUMINUM FLANGED COVER AND DEVICE PLATES. COVER COLOR TO BE SELECTED BY ARCHITECT. DETAIL INDICATES RFB4E-OG FOR REFERENCE PURPOSES.

INSTALL FLOOR BOX IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND AS FOLLOWS:

AT GRADE INSTALLATION: SET FLOOR BOX ON TOP OF VAPOR BARRIER AND LEVEL WHILE MAINTAINING FULL SLAB THICKNESS BELOW AND AROUND FLOOR BOX. INSTALL FACTORY FURNISHED MUDCAP TO PREVENT ENTRY OF CONCRETE DURING POUR. SET TOP EDGE OF BOX FLUSH WITH TOP OF THE CONCRETE SLAB (COORDINATE WITH GENERAL CONTRACTOR).

ABOVE GRADE INSTALLATION: SET FLOOR BOX VEL WHILE MAINTAINING FULL SLAB THICKNESS BELOW AND AROUND FLOOR BOX AS REQUIRED FOR STRUCTURE. INSTALL FACTORY FURNISHED MUDCAP TO PREVENT ENTRY OF CONCRETE DURING POUR. SET TOP EDGE OF BOX FLUSH WITH TOP OF THE CONCRETE SLAB (COORDINATE WITH GENERAL CONTRACTOR).

COMPLETE INSTALLATION OF DEVICES PER NOTES FOLLOWING.

(2) BY ELECTRICAL CONTRACTOR: WIREMOLD RFB4DP INTERNAL DUPLEX RECEPTACLE DEVICE PLATE BRACKET WITH DUPLEX POWER RECEPTACLE, QUANTITY AS INDICATED ON ELECTRICAL DRAWINGS. PROVIDE WIREMOLD RFB4B INTERNAL BLANK BRACKET WHERE NUMBER OF DEVICES IN FLOOR BOX INDICATED ON ELECTRICAL DRAWINGS IS LESS THAN THAT INDICATED ON THIS DETAIL.

(2A) BY ELECTRICAL CONTRACTOR: WIREMOLD RFB4B INTERNAL BLANK BRACKET. PROVIDE FOR ALL UNUSED SPACES.

(2B) BY ELECTRICAL CONTRACTOR: WIREMOLD RFB4GFI INTERNAL DECORA STYLE RECEPTACLE BRACKET. (PROVIDE FOR USE BY SCSC).

(4) BY ELECTRICAL CONTRACTOR: WIREMOLD RFB4KIT BARRIER KIT FACTORY POWER/COMMUNICATIONS PARTITION COVERS PER NEC.

(5) BY ELECTRICAL CONTRACTOR: FLOOR BOX SURFACE STYLE COVER, DIE-CAST ALUMINUM NICKEL FINISH, WIREMOLD 6CTCNK OR EQUAL DEPENDING ON FLOOR BOX PROVIDED.

(6) BY ELECTRICAL CONTRACTOR: PROVIDE SHIMS AS REQUIRED FOR FLOORING TYPE GREATER THAN 5/16" THICK, WIREMOLD 8TS. PROVIDE MULTIPLE QUANTITY OF SPACERS AS REQUIRED TO SET BOTTOM OF COVER ASSEMBLY FLUSH WITH FINISHED FLOOR SURFACE.

(7) BY ELECTRICAL CONTRACTOR: PROVIDE 1" POWER CONDUIT WITH WATERTIGHT FITTINGS FOR DUPLEX POWER OUTLET.

(9) BY STRUCTURED CABLING SYSTEM CONTRACTOR: FOUR PORT MINI-COM "GFCI" DECORA MODULE FRAME, COLOR OFF WHITE, BEKDEB. PROVIDE WITH FOUR 10GIG TIA CATEGORY 6A 8-PIN MODULAR JACKS, BELDEN (COLOR PER USER).

(10) BY ELECTRICAL CONTRACTOR: PROVIDE ONE 1" COMMUNICATIONS HOMERUN CONDUIT FOR EACH 'D2' OUTLET. RUN EMT CONDUITS TO NEAREST WALL WITH LAY-IN CEILING ACCESSIBLE TO CER/CC WHEN ABOVE GROUND, RUN SCHEDULE 80 PVC CONDUITS WHEN UNDERGROUND TO NEAREST WALL WITH LAY-IN CEILING ACCESSIBLE TO CER/CC. TURN UP CONCEALED IN WALL TO 4" ABOVE FLOOR, CONVERT TO (OR CONTINUE IN) EMT, THEN RUN UP CONCEALED IN WALL AND STUB CONDUIT IN ACCESSIBLE LAY-IN CEILING AS REQUIRED FOR STANDARD WALL MOUNT COS. SEE "GENERAL ABOVEGROUND CONDUIT NOTES".

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Gerald Steven Jernigan - Qualifying Agent
FL Architect AR 0009953

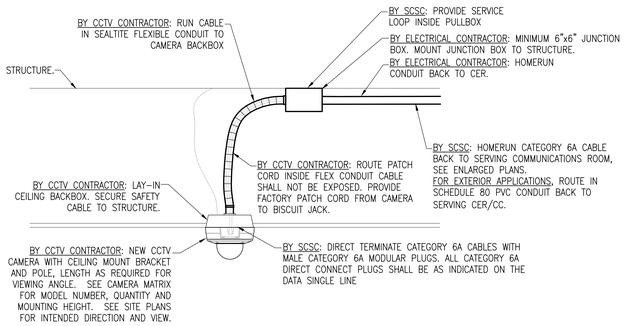
ISSUE	DATE
PERMIT SET	12/08/2025

DRAWN BY: KRO
CHECKED BY: JJO

FRICKER RESOURCE CENTER RENOVATION PROJECT
900 N F St, Pensacola, FL 32501-2887
GMC # APEN250016

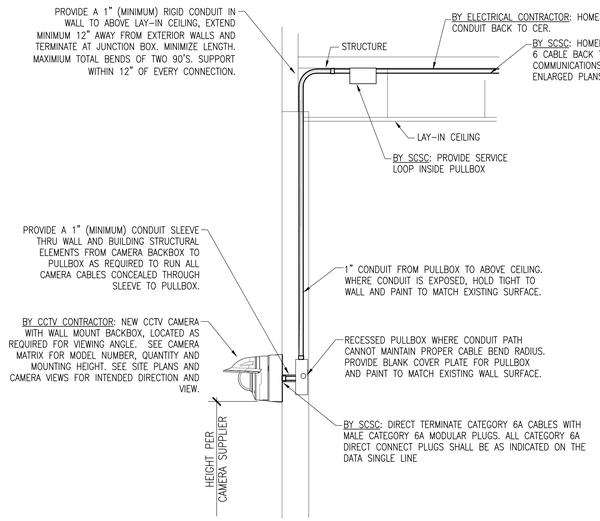
COMMUNICATIONS TYPICAL DETAILS

T2.02



LAY-IN CEILING MOUNT CAMERA DETAIL

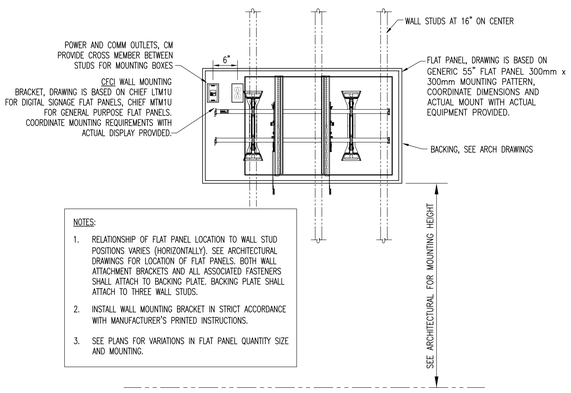
NOT TO SCALE



EXTERIOR WALL MOUNT CAMERA DETAIL - BACKBOX MOUNT

NOT TO SCALE

FLAT PANEL LOCATION NOTE:
PRIOR TO INSTALLING FPs, ASSOCIATED CONDUITS AND POWER OBTAIN PLAN AND MOUNTING HEIGHT DIMENSIONS FROM ARCHITECT FOR FP PLACEMENT. DO NOT SCALE FP LOCATIONS FROM 'T' DRAWINGS OR ANY OTHER DRAWINGS. REQUEST INFORMATION THRU GENERAL CONTRACTOR IN WRITING.

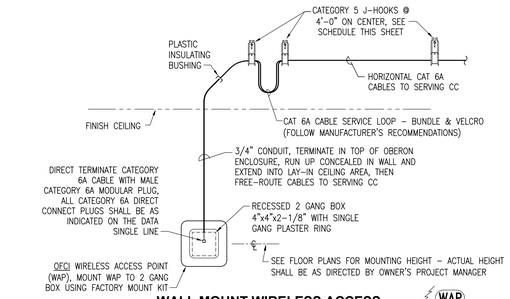


NOTES:

1. RELATIONSHIP OF FLAT PANEL LOCATION TO WALL STUD POSITIONS VARIES (HORIZONTALLY). SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FLAT PANELS. BOTH WALL ATTACHMENT BRACKETS AND ALL ASSOCIATED FASTENERS SHALL ATTACH TO BACKING PLATE. BACKING PLATE SHALL ATTACH TO THREE WALL STUDS.
2. INSTALL WALL MOUNTING BRACKET IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
3. SEE PLANS FOR VARIATIONS IN FLAT PANEL QUANTITY SIZE AND MOUNTING.

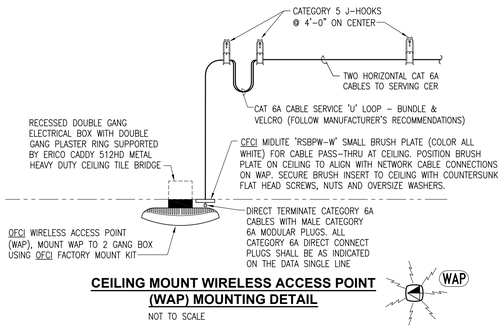
WALL MOUNTING DETAIL - GENERAL PURPOSE AND DIGITAL SIGNAGE FLAT PANELS

NOT TO SCALE



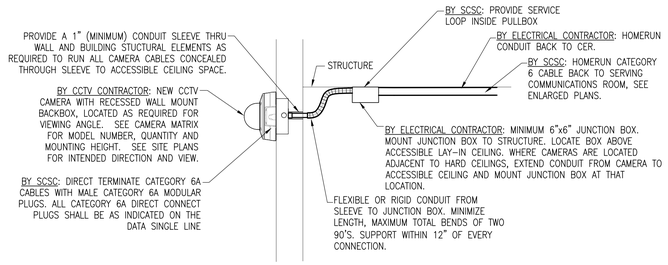
WALL MOUNT WIRELESS ACCESS POINT (WAP) MOUNTING DETAIL

NOT TO SCALE



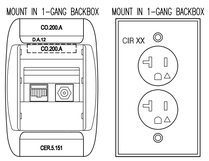
CEILING MOUNT WIRELESS ACCESS POINT (WAP) MOUNTING DETAIL

NOT TO SCALE



INTERIOR WALL MOUNT CAMERA DETAIL

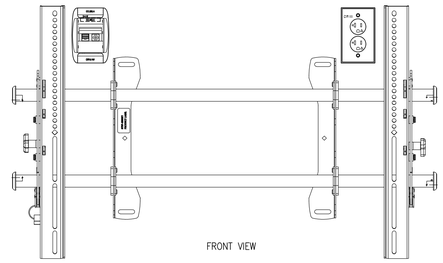
NOT TO SCALE

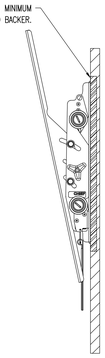


NOTE: MOUNT CONCEALED BEHIND DISPLAY. FOR WALL MOUNTED DISPLAY, MOUNT INSIDE RECESSED WALL BOX FSR-PWB-250 WITH COVER. MOUNT BEHIND POWER AND VIDEO CONNECTIONS.

SINGLE DISPLAY OUTLET DETAIL

NOT TO SCALE





NOTES:
SEE MOUNTING DETAIL THIS SHEET FOR ADDITIONAL MOUNTING REQUIREMENTS. PROVIDE CHIEF (OR PEERLESS) MTA1U FOR 47"-55", LTA1U FOR 65"-75" AND XSM1U FOR 98" SCREENS. LTA1U IS INDICATED IN THIS DETAIL.

MOUNTING STRUCTURE IS INDICATIVE OF INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR ACTUAL DESIGN AND TO CONFIRM STRUCTURAL INTEGRITY.

GC TO PROVIDE BLOCKING IN WALL TO SUPPORT ALL DISPLAY MOUNTS. COORDINATE WITH ELECTRICAL AND STRUCTURED CABLING CONTRACTORS TO ENSURE POWER AND DATA BOXES ARE PROPERLY PLACED BEHIND DISPLAY MOUNTS TO ALLOW FOR EASE OF CABLING. LOCATIONS SHOWN ARE REPRESENTATIVE ONLY.

WALL MOUNT DISPLAY DETAIL

NOT TO SCALE

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ISSUE	DATE
PERMIT SET	12/08/2025

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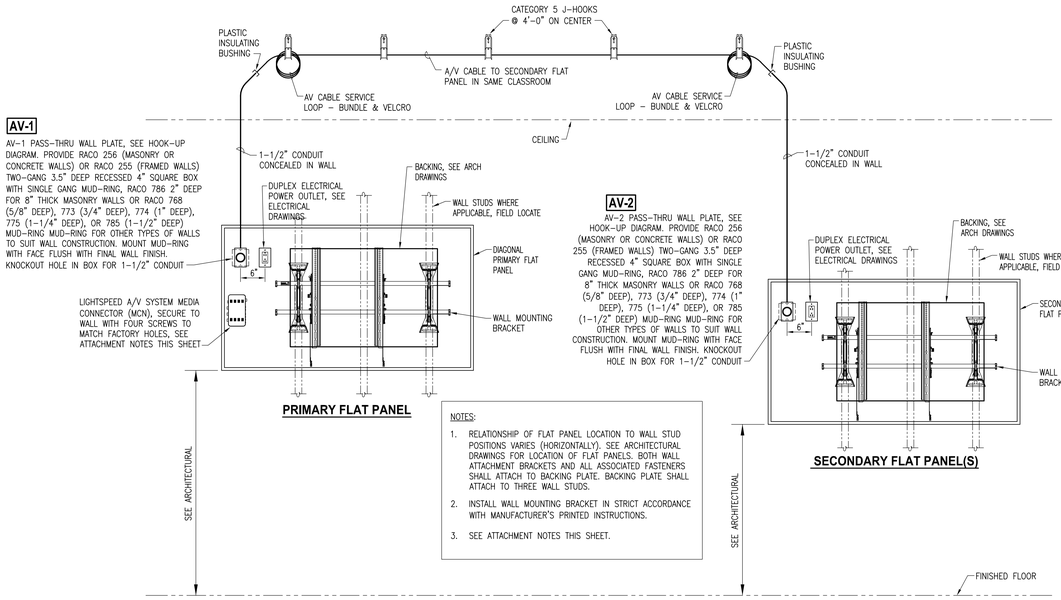
CHECKED BY: JJO

FRICKER RESOURCE CENTER RENOVATION PROJECT
900 N F St, Pensacola, FL 32501-2887
GMC # APEN250016

BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI # 1411584
EXPIRES 12-31-26

COMMUNICATIONS
TYPICAL DETAILS

T2.03



FLAT PANEL MOUNTING DETAILS

NOT TO SCALE

PRIMARY/SECONDARY FLAT PANEL NOTE

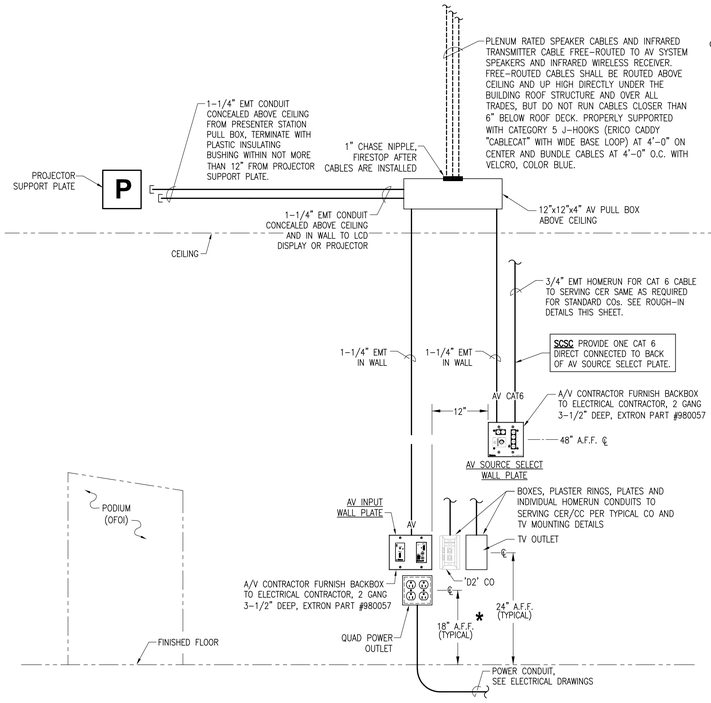
THE OWNER SHALL FURNISH AND CONTRACTOR SHALL INSTALL ALL PRIIMARY/SECONDARY FLAT PANELS. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE WALL MOUNT BRACKETS, ALONG WITH ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF THE FLAT PANELS AND MOUNTS, EXCEPT WHERE NOTED OTHERWISE. THE OWNER WILL REVIEW AND APPROVE THE FLAT PANEL AND MOUNT MANUFACTURER AND MODEL NUMBER. SEE ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.

OUTLET PLACEMENT NOTE

MOUNT WALL BOXES FOR AV AND POWER SERVICES AT UPPER LEFT HAND CORNER OF FLAT PANELS NEAR FACTORY CONNECTION PANEL, CONCEALED BEHIND FP, BUT EASILY ACCESSIBLE FOR PATCH CORD INSERTION AND REMOVAL. COORDINATE WITH MOUNTING BRACKET. COORDINATE WITH CM AND OWNER.

FP CABLE MANAGEMENT NOTE

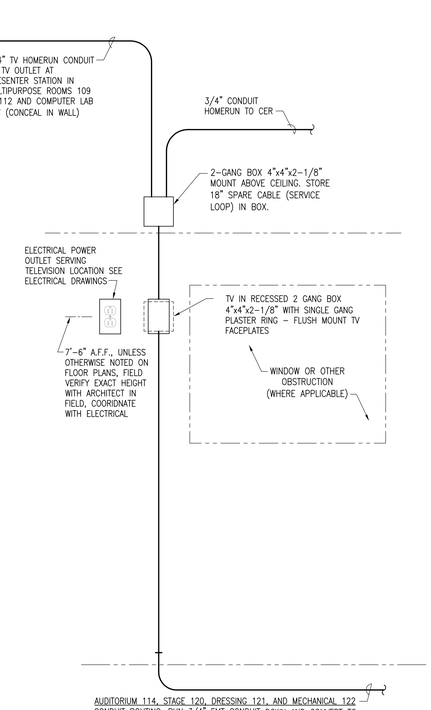
ROUTE ALL POWER CABLES AND AV PATCH CABLES CONCEALED BEHIND FLAT PANELS, PROFESSIONALLY INSTALLED AND NEATLY SECURED TO MOUNTING BRACKET USING 1" WIDE BLACK VELCRO.



PRESENTER STATION ROUGH-IN DETAIL

NOT TO SCALE

(PROVIDE COMPLETE ROUGH-IN FOR BOTH MULTIPURPOSE ROOMS 109 & 112)

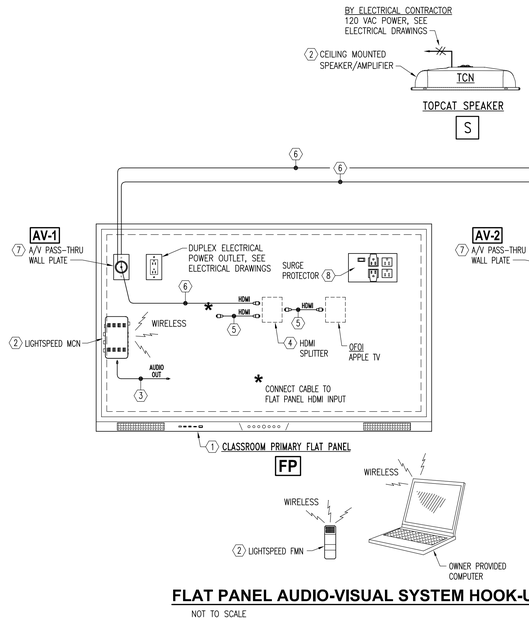


AUDITORIUM 114, STAGE 120, DRESSING 121, AND MECHANICAL 122 CONDUIT ROUTING: RUN 3/4" EMT CONDUIT DOWN AND CONVERT TO SCHEDULE 80 PVC AT 4" ABOVE FLOOR CONSTRUCTION, THEN TURN AND RUN SCHEDULE 80 PVC UNDERGROUND TO CER.108, THEN TURN UP ON SOUTH WALL OF CER.108 AND TERMINATE AT 4" A.F.F. WITH PVC END BELL.

TYPICAL FLUSH MOUNT TELEVISION OUTLET (TV) MOUNTING DETAIL

NOT TO SCALE

MON



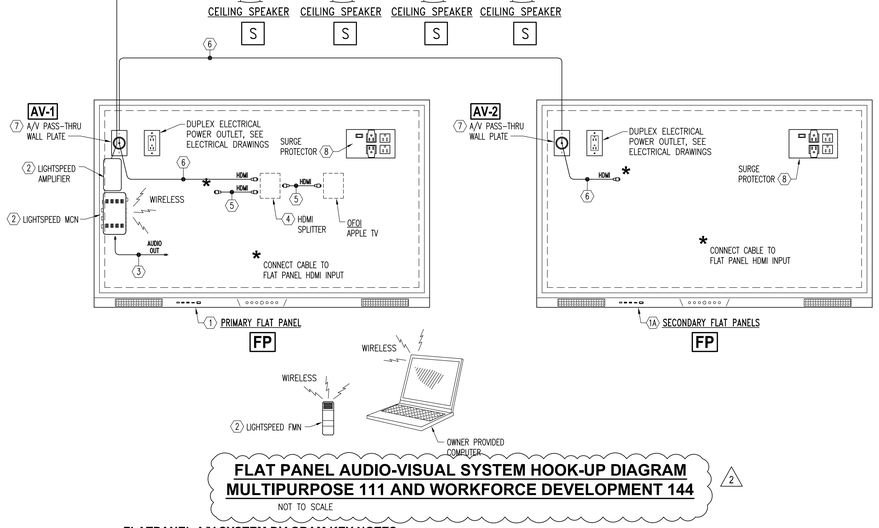
FLAT PANEL AUDIO-VISUAL SYSTEM HOOK-UP DIAGRAM - STEM LAB 104

NOT TO SCALE

2

FLATPANEL A/V SYSTEM DIAGRAM KEY NOTES

1. PRIMARY FLAT PANEL, SEE DETAIL THIS SHEET.
1A. SECONDARY FLAT PANEL, SEE DETAIL THIS SHEET.
2. CONTRACTOR FURNISHED CONTRACTOR INSTALLED SOUND REINFORCEMENT SYSTEM, LIGHTSPEED TOPCAT ACCESS, PROVIDE WITH MEDIA CONNECTOR (MCN), FLEXMIKE PENDANT MICROPHONE (FMN), CEILING MOUNT AMPLIFIER AND SPEAKER (TCN), AND CHARGING STATION. MOUNT MCN BEHIND FLAT PANEL SECURED TO WALL IN EASILY ACCESSIBLE BUT PROTECTED LOCATION USING STAINLESS STEEL FASTENERS IN ALL FACTORY HOLES OF MCN BASE ATTACHED TO WALL IN ACCORDANCE WITH ATTACHMENT NOTES THIS SHEET. SCSC PROVIDE MANUFACTURER'S 5 YEAR WARRANTY (REGISTER WARRANTY WITH LIGHTSPEED). TURN MICROPHONE AND CHARGING ADAPTER OVER TO THE OWNER'S PROJECT MANAGER AND PROVIDE WRITTEN DOCUMENTATION OF TRANSFER TO THE OWNER WITH COPY IN O&M MANUALS. ELECTRICAL CONTRACTOR PROVIDE 120 VAC HARD-WIRED POWER CONNECTION TO TCN CEILING MOUNT SPEAKER.
3. CFCI – STEREO AUDIO EQUIPMENT PATCH CABLE, MALE 3.5MM MINI STEREO CONNECTOR EACH END, KRAMER 'C-A35M/A35M-XX' WHERE XX IS FACTORY LENGTH. CONNECT TO 'AUDIO OUT' PORT OF FLAT PANEL AND 'AUDIO IN' PORT OF SOUND REINFORCEMENT SYSTEM MEDIA CONNECTOR (MCN). PROVIDE CABLE LENGTH REQUIRED TO CONNECT EQUIPMENT WITHOUT EXCESS SLACK.
4. CFCI – HDMI AMPLIFIER/SPLITTER, EXTRON 'DA2 HD 4K PLUS' PART #60-1607-01, PROVIDE WITH FACTORY 'MBU 125' MOUNTING BRACKETS AS REQUIRED TO MOUNT CONCEALED BUT IN READILY ACCESSIBLE LOCATION BEHIND FLAT PANEL.
5. CFCI – HDMI ULTRA FLEXIBLE PATCH CORD, MALE TO MALE, FACTORY CONNECTORIZED BOTH ENDS, EXTRON HDMI ULTRA SERIES PART #26-663-xx WHERE xx IS FACTORY LENGTH REQUIRED FOR FIRST CORD TO TERMINATE ON HDMI OUTPUT OF APPLE TV AND ON HDMI INPUT OF HDMI SPLITTER, AND FOR SECOND CORD TO TERMINATE ON HDMI OUTPUT OF HDMI SPLITTER AND ON HDMI INPUT OF PRIMARY FLAT PANEL.
6. CFCI – HDMI PRO PLENUM SERIES CABLE, MALE TO MALE, FACTORY CONNECTORIZED BOTH ENDS, EXTRON HD PRO PLENUM SERIES PART #26-726-xx WHERE xx IS FACTORY LENGTH REQUIRED TO TERMINATE ON HDMI OUTPUT OF HDMI SPLITTER, TURN UP IN WALL CONDUIT, RUN ACROSS CEILING FREE-ROUTED, TURN DOWN IN WALL CONDUIT, AND TERMINATE ON HDMI INPUT OF SECONDARY FLAT PANEL WITH 5 FEET OF SLACK AT FLAT PANEL END.
7. CUSTOM A/V WALL PLATE AV-2 (PASS-THRU), RCI CUSTOM 'AL118BK' ONE-GANG PLATE WITH 2" DIAMETER GROMMET, 1/8 THICK T6 ALUMINUM, BEVELED EDGES, BLACK ANODIZED FINISH. MOUNT USING FACTORY BLACK SCREWS.
8. 120VAC SURGE PROTECTOR WITH ON-OFF SWITCH, 4 OUTLET, 3330 JOULES, METAL HOUSING, 6 FOOT CORD WITH RIGHT ANGLE PLUG, TRIPP-LITE MODEL ISOBAR4ULTRA, CONTRACTOR FIELD LOCATE FOR EASY ACCESS WHILE AVOIDING CONFLICTS WITH MOUNT AT ANY POSITION AND SECURE TO WALL.



FLAT PANEL AUDIO-VISUAL SYSTEM HOOK-UP DIAGRAM MULTIPURPOSE 111 AND WORKFORCE DEVELOPMENT 144

NOT TO SCALE

2

FLATPANEL A/V SYSTEM DIAGRAM KEY NOTES

1. PRIMARY FLAT PANEL, SEE DETAIL THIS SHEET.
1A. SECONDARY FLAT PANEL, SEE DETAIL THIS SHEET.
2. CONTRACTOR FURNISHED CONTRACTOR INSTALLED SOUND REINFORCEMENT SYSTEM, LIGHTSPEED, PROVIDE WITH MEDIA CONNECTOR (MCN), 975 AMPLIFIER, FLEXMIKE PENDANT MICROPHONE (FMN), CEILING MOUNT SPEAKERS, AND CHARGING STATION. MOUNT MCN AND AMPLIFIER BEHIND FLAT PANEL SECURED TO WALL IN EASILY ACCESSIBLE BUT PROTECTED LOCATION USING STAINLESS STEEL FASTENERS IN ALL FACTORY HOLES OF MCN BASE ATTACHED TO WALL IN ACCORDANCE WITH ATTACHMENT NOTES THIS SHEET. SCSC PROVIDE MANUFACTURER'S 5 YEAR WARRANTY (REGISTER WARRANTY WITH LIGHTSPEED). TURN MICROPHONE AND CHARGING ADAPTER OVER TO THE OWNER'S PROJECT MANAGER AND PROVIDE WRITTEN DOCUMENTATION OF TRANSFER TO THE OWNER WITH COPY IN O&M MANUALS.
3. CFCI – STEREO AUDIO EQUIPMENT PATCH CABLE, MALE 3.5MM MINI STEREO CONNECTOR EACH END, KRAMER 'C-A35M/A35M-XX' WHERE XX IS FACTORY LENGTH. CONNECT TO 'AUDIO OUT' PORT OF FLAT PANEL AND 'AUDIO IN' PORT OF SOUND REINFORCEMENT SYSTEM MEDIA CONNECTOR (MCN). PROVIDE CABLE LENGTH REQUIRED TO CONNECT EQUIPMENT WITHOUT EXCESS SLACK.
4. CFCI – HDMI AMPLIFIER/SPLITTER, EXTRON 'DA2 HD 4K PLUS' PART #60-1607-01, PROVIDE WITH FACTORY 'MBU 125' MOUNTING BRACKETS AS REQUIRED TO MOUNT CONCEALED BUT IN READILY ACCESSIBLE LOCATION BEHIND FLAT PANEL.
5. CFCI – HDMI ULTRA FLEXIBLE PATCH CORD, MALE TO MALE, FACTORY CONNECTORIZED BOTH ENDS, EXTRON HDMI ULTRA SERIES PART #26-663-xx WHERE xx IS FACTORY LENGTH REQUIRED FOR FIRST CORD TO TERMINATE ON HDMI OUTPUT OF APPLE TV AND ON HDMI INPUT OF HDMI SPLITTER, AND FOR SECOND CORD TO TERMINATE ON HDMI OUTPUT OF HDMI SPLITTER AND ON HDMI INPUT OF PRIMARY FLAT PANEL.
6. CFCI – HDMI PRO PLENUM SERIES CABLE, MALE TO MALE, FACTORY CONNECTORIZED BOTH ENDS, EXTRON HD PRO PLENUM SERIES PART #26-726-xx WHERE xx IS FACTORY LENGTH REQUIRED TO TERMINATE ON HDMI OUTPUT OF HDMI SPLITTER, TURN UP IN WALL CONDUIT, RUN ACROSS CEILING FREE-ROUTED, TURN DOWN IN WALL CONDUIT, AND TERMINATE ON HDMI INPUT OF SECONDARY FLAT PANEL WITH 5 FEET OF SLACK AT FLAT PANEL END.
7. CUSTOM A/V WALL PLATE AV-2 (PASS-THRU), RCI CUSTOM 'AL118BK' ONE-GANG PLATE WITH 2" DIAMETER GROMMET, 1/8 THICK T6 ALUMINUM, BEVELED EDGES, BLACK ANODIZED FINISH. MOUNT USING FACTORY BLACK SCREWS.
8. 120VAC SURGE PROTECTOR WITH ON-OFF SWITCH, 4 OUTLET, 3330 JOULES, METAL HOUSING, 6 FOOT CORD WITH RIGHT ANGLE PLUG, TRIPP-LITE MODEL ISOBAR4ULTRA. CONTRACTOR FIELD LOCATE FOR EASY ACCESS WHILE AVOIDING CONFLICTS WITH MOUNT AT ANY POSITION AND SECURE TO WALL.
9. SPEAKER CABLES FROM AMPLIFIER TO SPEAKERS

ATTACHMENT NOTES

ALL ATTACHMENTS SHALL BE MADE WITH HIGH STRENGTH/HIGH LOAD COMMERCIAL GRADE FASTENERS. ALL FASTENERS AND MISCELLANEOUS RELATED HARDWARE SHALL BE STAINLESS STEEL. TAP-CONS OR RAM-SET TYPE FASTENERS ARE NOT ALLOWABLE. ATTACHMENTS AT VARIOUS BUILDING WALL CONSTRUCTIONS SHALL BE AS FOLLOWS AS A MINIMUM REQUIREMENT, COMPLY WITH MORE STRINGENT FASTENER SPECIFICATIONS WHEN REQUIRED BY THE LOADING APPLICATION OR RECOMMENDED BY THE MANUFACTURER OF EACH SYSTEM COMPONENT:

1. AT FRAMED WALLS WITH GYP BOARD FINISH OR AT OPEN BLOCK CELLS OF CMU WALLS PROVIDE TOGGLER 'SNAP-TOGGLE' TOGGLE BOLTS. AT FRAMED WALLS FASTENERS SHALL BE PLACED AT STUDS.
2. AT BRICK WALLS, BLOCK WEBS AND FILLED CELLS OF CMU WALLS, AND AT CONCRETE WALLS, PROVIDE COMMERCIAL GRADE HIGH LOAD EXPANSION ANCHORS SUCH AS TOGGLER 'ALLIGATOR' SOLID-WALL ANCHORS WITH STAINLESS STEEL FASTENERS.
3. FASTENERS SHALL BE FULL SIZE OF FASTENER HOLES/OPENING IN EQUIPMENT TO BE SECURED (ALLOWING FOR STANDARD CLEARANCES - FASTENERS SIZE 1/16" LESS THAN HOLE SIZE).

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ISSUE	DATE
PERMIT SET	12/08/2025
REVISION 2	05/01/2026

DRAWN BY: KRC
CHECKED BY: JJO

FRICKER RESOURCE CENTER RENOVATION PROJECT

900 N F St, Pensacola, FL 32501-2887

GMC # APEN250016

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER BICSI CERTIFIED REGISTERED DISTRIBUTION DESIGNER MEMBER # 446564 EXPIRES 2029-05

COMMUNICATIONS
TYPICAL DETAILS

T2.04

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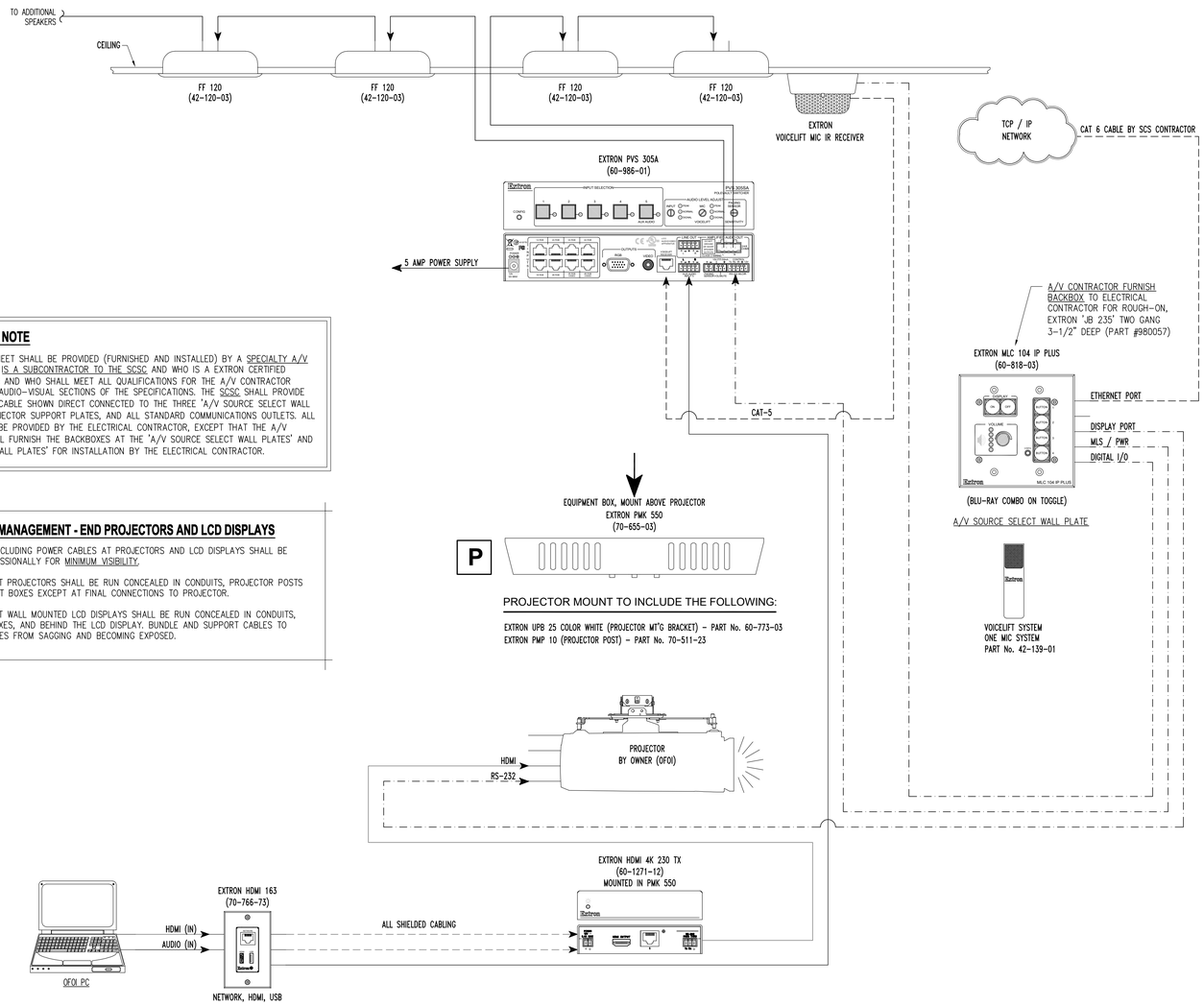


MULTI-PURPOSE & SOCIAL HALL AUDIO-VISUAL HOOKUP DIAGRAM

NOT TO SCALE

PROVIDE ALL WIRING AND ELECTRONICS FOR A COMPLETE SYSTEM

WORK SCOPE NOTE

ALL WORK THIS SHEET SHALL BE PROVIDED (FURNISHED AND INSTALLED) BY A SPECIALTY A/V CONTRACTOR WHO IS A SUBCONTRACTOR TO THE SCSC AND WHO IS A EXTRON CERTIFIED DEALER/INSTALLER AND WHO SHALL MEET ALL QUALIFICATIONS FOR THE A/V CONTRACTOR SPECIFIED IN THE AUDIO-VISUAL SECTIONS OF THE SPECIFICATIONS. THE SCSC SHALL PROVIDE THE CATEGORY 6 CABLE SHOWN DIRECT CONNECTED TO THE THREE 'A/V SOURCE SELECT WALL PLATES', THE PROJECTOR SUPPORT PLATES, AND ALL STANDARD COMMUNICATIONS OUTLETS. ALL ROUGH-IN SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, EXCEPT THAT THE A/V CONTRACTOR SHALL FURNISH THE BACKBOXES AT THE 'A/V SOURCE SELECT WALL PLATES' AND THE 'A/V INPUT WALL PLATES' FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR.

A/V CABLE MANAGEMENT - END PROJECTORS AND LCD DISPLAYS

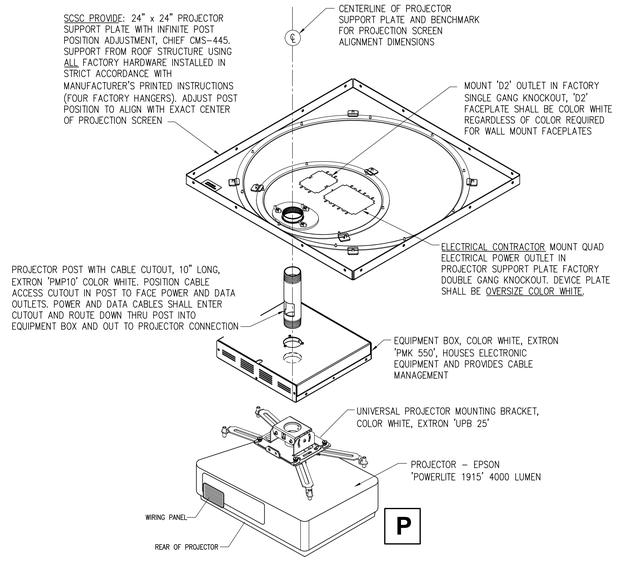
1. ALL CABLES INCLUDING POWER CABLES AT PROJECTORS AND LCD DISPLAYS SHALL BE ROUTED PROFESSIONALLY FOR MINIMUM VISIBILITY.
2. ALL CABLES AT PROJECTORS SHALL BE RUN CONCEALED IN CONDUITS, PROJECTOR POSTS AND EQUIPMENT BOXES EXCEPT AT FINAL CONNECTIONS TO PROJECTOR.
3. ALL CABLES AT WALL MOUNTED LCD DISPLAYS SHALL BE RUN CONCEALED IN CONDUITS, EQUIPMENT BOXES, AND BEHIND THE LCD DISPLAY. BUNDLE AND SUPPORT CABLES TO PREVENT CABLES FROM SAGGING AND BECOMING EXPOSED.

SPEAKER CABLE SUPPORT NOTE:

ALL SPEAKER CABLES SHALL RUN IN CONDUIT UP THE WALL TO AN A/V PULL BOX ABOVE THE CEILING AND FROM THAT POINT SHALL BE RUN FREE-ROUTED ABOVE THE CEILING TO THE SPEAKERS SERVED. ALL SPEAKERS CABLES SHALL BE ROUTED UP HIGH DIRECTLY UNDER THE BUILDING ROOF STRUCTURE AND PROPERLY SUPPORTED WITH APPROVED HANGERS AT 4'-0" ON CENTER, BUT DO NOT RUN CABLES CLOSER THAN 6" BELOW ROOF DECK (TO AVOID DAMAGE FROM LONG SCREWS USED IN FUTURE ROOF REPLACEMENTS). RUN ALL CABLING ABOVE DUCTWORK, PIPING, CONDUITS AND ALL OTHER WORK BY OTHER TRADES AND PLACE FOR MAXIMUM PHYSICAL PROTECTION. BUNDLE CABLES TOGETHER AND ROUTE PARALLEL AND PERPENDICULAR TO BUILDING LINES. HANGERS SHALL BE ERICO CADDY "CABLECAT" CATEGORY-5 WITH WIDE BASE LOOP. BUNDLE CABLES AT 4'-0" O.C. WITH VELCRO, COLOR BLUE ABOVE CEILINGS. ATTACH HANGERS TO THE BUILDING STRUCTURE. DO NOT ATTACH HANGERS TO CEILING GRID OR SUPPORT WIRES, CONDUITS, DUCTWORK, PIPING, OR ANY OTHER SYSTEM COMPONENT OR WORK OF OTHER TRADES. INSTALL CABLES TO AVOID ELECTROMAGNETIC INTERFERENCE FROM MOTORS, TRANSFORMERS, GENERATORS, ELEVATORS, POWER CABLES/CONDUITS, LIGHTING FIXTURES, ETC. DO NOT BLOCK ACCESS TO PULL/JUNCTION BOXES, HATCHES, DOORS, UTILITY ACCESS PANELS.

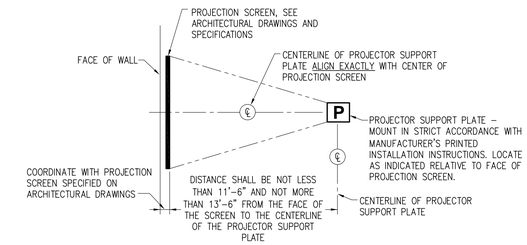
A/V CABLE SUPPORT NOTE:

ALL A/V CABLES WITH THE EXCEPTION OF SPEAKER CABLES SHALL BE RUN IN CONDUIT, SEE CONDUIT ROUGH-IN DETAILS.



TYPICAL PROJECTOR MOUNTING DETAIL - LAY-IN CEILINGS

NOT TO SCALE



PROJECTOR LOCATION DIAGRAM

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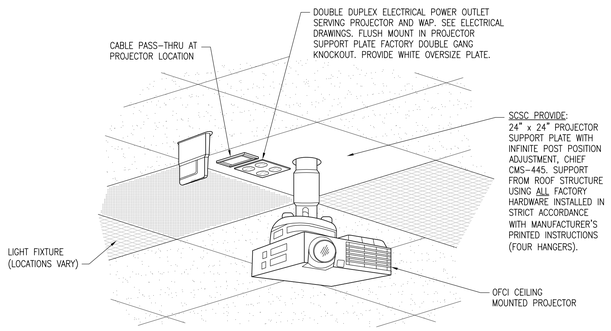
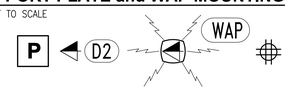


TYPICAL CEILING LAYOUT - PROJECTOR SUPPORT PLATE and WAP MOUNTING

NOT TO SCALE



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COMMUNICATIONS TYPICAL DETAILS

T2.05

ACSC, EC, SCSC AND GC/CM COORDINATION NOTES

1. THE ACSC SHALL PROVIDE ALL WORK SHOWN TO BE BY THE ACSC IN THE DRAWINGS AND CALLED FOR IN THE SPECIFICATIONS, AND ALL OTHER WORK REQUIRED FOR COMPLETE AND FULLY FUNCTIONAL SYSTEMS.
2. THE ACSC SHALL FULLY INTEGRATE THE ACCESS CONTROL SYSTEM INTO THE OWNER'S EXISTING LENEL ACCESS CONTROL SYSTEM SOFTWARE FOR MANAGEMENT OF THE ACCESS CONTROL SYSTEM TO INCLUDE ANY DURESS/LOCKDOWN REQUIREMENTS.
3. THE ACSC SHALL PROVIDE ALL LOW VOLTAGE WIRING ASSOCIATED WITH THE SYSTEM LISTED ABOVE.
4. THE ACSC SHALL PROVIDE ALL MAINS POWER TO LOW VOLTAGE POWER SUPPLIES REQUIRED TO POWER ACCESS CONTROL SYSTEM PANELS AND OTHER COMPONENTS BUT NOT SHOWN TO BE PROVIDED AS PART OF DOOR HARDWARE IN SPECIFICATION SECTION. THE ACSC SHALL FURNISH THE POWER SUPPLIES TO THE EC FOR INSTALLATION.
5. THE ACSC SHALL PROVIDE A DETAILED STATEMENT OF WORK WITH INCLUSIONS AND EXCLUSIONS TO THE GC/CM AND EC FOR FINAL COORDINATION, ALONG WITH WIRING DIAGRAMS, INSTALLATION, OPERATION AND MAINTENANCE MANUALS, AND OTHER INFORMATION REQUIRED FOR THE GC AND EC TO COMPLETE THEIR ASSOCIATED WORK IN A TIMELY MANNER IN ACCORDANCE WITH THE OVERALL PROJECT SCHEDULE.
6. THE GC/CM SHALL PROVIDE OVERALL COORDINATION AND SCHEDULING FOR THE SYSTEM LISTED ABOVE TO INCLUDE DIRECT COORDINATION BETWEEN THE ACSC AND EC FOR ROUGH-IN AND OTHER WORK ITEMS THAT ARE TIME CRITICAL. THE GC/CM SHALL ALSO PROVIDE OVERALL COORDINATION OF EQUIPMENT LOCATIONS WITH THE ARCHITECT, OWNER, EC AND ACSC.
7. THE EC AND ACSC SHALL COORDINATE PROJECT REQUIREMENTS AS SOON AS THE ACSC IS IDENTIFIED BY THE OWNER AND CONTINUALLY DURING THE COURSE OF THE PROJECT.
8. THE EC SHALL PROVIDE ALL CONDUIT, BOXES, ENCLOSURES, PULL STRINGS AND TAPES, SLEEVES, FIRESTOPPING, SMOKESTOPPING, POWER, GROUNDING, AND ALL OTHER WORK REQUIRED BY CODE OR FOR COMPLETE AND FULLY FUNCTIONAL SYSTEMS BUT NOT PROVIDED BY THE ACSC OR SPECIFICALLY IDENTIFIED AS PROVIDED BY OTHERS, WHETHER SPECIFICALLY SHOWN OR NOT.
9. PROVIDE WEATHERPROOF CARD READERS, ROUGH-IN AND MOUNTING AT ALL EXTERIOR LOCATIONS.
10. EC PROVIDE SINGLE GANG MASONRY BOXES OR DOUBLE GANG WALL BOXES WITH SINGLE GANG PLASTER RINGS TO SUIT WALL TYPE FOR CARD READER MOUNTING, SPECIFIC SIZE AND TYPE AS DIRECTED BY ACS CONTRACTOR TO SUIT DIRECT MOUNTING OF CARD READERS. DO NOT PROVIDE OVERSIZE BOX WITH BLANK PLATE FOR MOUNTING CARD READERS – THIS IS SPECIFICALLY PROHIBITED.
11. THE EC SHALL WIRE AND MAKE ALL CONNECTIONS TO ALL ELECTRIFIED DOOR HARDWARE AND ANY OTHER EQUIPMENT THAT REQUIRES ANY TYPE OF 120 VAC WIRING CONNECTION. SEE DOOR HARDWARE SPECIFICATION SECTION ALONG WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS, AND COORDINATE WITH ACSC FOR ALL SUCH REQUIREMENTS.
12. ACCESS CONTROL SYSTEM PANELS (IF ADDITIONAL PANELS ARE REQUIRED) – CATEGORY 6 OUTLET: CATEGORY 6 CABLING AND MODULAR OUTLETS FOR NETWORK CONNECTIONS TO ACSC PANELS SHALL BE PROVIDED BY THE STRUCTURED CABLING SYSTEM CONTRACTOR (SCSC) COMPLETE TO INCLUDE PATCH PANELS, TERMINATION, LABELING, TESTING, AND PATCHING TO ASSIGNED NETWORK CONNECTIONS. THE CATEGORY 6 CABLES SHALL BE TERMINATED ON A BISCUIT JACK BY THE SCSC INSIDE THE ACSC PANELS. SCSC AND ACSC COORDINATE FINAL OUTLET LOCATIONS WITHIN PANELS.

ACCESS CONTROL SYSTEM GENERAL NOTES:

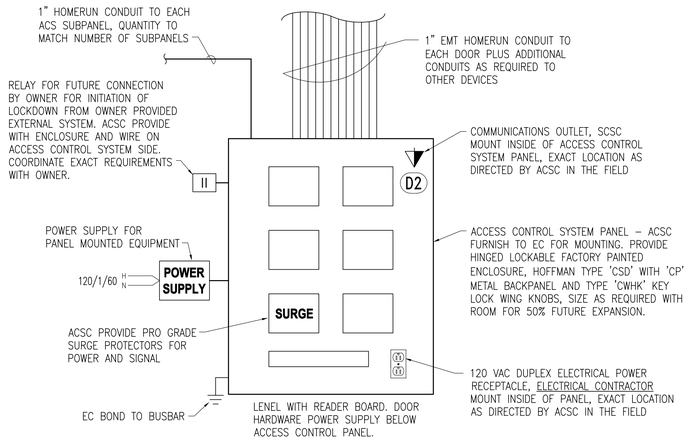
1. ACCESS CONTROL SYSTEM SHALL BE LENEL CONTROL SYSTEM, CARD READERS SHALL BE LENEL LNL-XF2100D-PIV OR LNL-XF1100D-PIV (MULLION WIDTH). CONFIRM ALL DEVICES WITH OWNER PRIOR TO ORDERING. SYSTEM MUST BE COMPATIBLE WITH OTHER CITY OF PENSACOLA ACCESS CONTROL SYSTEMS.
2. DURESS BUTTONS SHALL TRIGGER SILENT ALARMS TO LAW ENFORCEMENT.
3. REFER TO DOOR HARDWARE SPECIFICATION SECTION AND ARCHITECTURAL DRAWINGS TO CROSS REFERENCE DOOR HARDWARE FOR SECURE DOORS TO INCLUDE OPERATION. DOOR HARDWARE INDICATED ON ACS DRAWINGS IS FOR INFORMATION ONLY. SEE DOOR HARDWARE SPECIFICATION FOR FINAL DOOR HARDWARE REQUIREMENTS. ALL DOOR HARDWARE COMPONENTS LISTED IN SPECIFICATION SECTION – DOOR HARDWARE SHALL BE PROVIDED BY THE DOOR HARDWARE PROVIDER UNLESS SPECIFICALLY INDICATED TO BE PROVIDED BY OTHERS. WHERE REQUIRED, POWER TRANSFERS SHALL BE FURNISHED BY THE DOOR HARDWARE PROVIDER AND INSTALLED BY THE DOOR PROVIDER, ELECTRICAL CONTRACTOR AND ACCESS CONTROL SYSTEM CONTRACTOR WORKING TOGETHER. CARD READERS SHALL BE PROVIDED BY THE ACCESS CONTROL SYSTEM CONTRACTOR. POWER SUPPLIES SERVING ALL SECURE DOORS WITH EXIT DEVICES SHALL BE PROVIDED AS PART OF THE DOOR HARDWARE PACKAGE AND SHALL BE THE SAME MANUFACTURER AS THE EXIT DEVICE. POWER SUPPLIES SERVING ACCESS CONTROL SYSTEM PANELS AND DOORS WITH ELECTRIFIED LOCKSETS OR ELECTRIC STRIKES SHALL BE PROVIDED BY THE ACSC AND SHALL BE LOCATED IN OR NEXT TO ACCESS CONTROL SYSTEM PANELS IN COMM ROOMS. ALL POWER SUPPLIES SHALL HAVE DUAL BATTERY BACKUP AND SHALL BE TURNED OVER TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION. LOW VOLTAGE WIRING SHALL BE PROVIDED BY THE ACCESS CONTROL SYSTEM CONTRACTOR. ALL CONDUIT FOR LOW VOLTAGE WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. 120VAC POWER AND ALL CONDUIT FOR POWER SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
4. ALL DOORS SHALL FAIL SECURE UPON LOSS OF POWER TO LOCKING DEVICE FOR ANY REASON.
5. ALL DOORS SHALL HAVE MECHANICAL FREE EGRESS FROM SECURE SIDE TO UNSECURE SIDE UNLESS SPECIAL CIRCUMSTANCES DICTATE OTHERWISE AS SPECIFICALLY DESCRIBED IN THE DOOR HARDWARE SPECIFICATIONS.
6. ALL SECURE DOOR MAIN JUNCTION BOXES SHALL BE 12"x12"x6" NEMA 1 SCREW COVER AND SHALL BE INSTALLED ON THE SECURE SIDE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING AS CLOSE TO THE DOOR SERVED AS POSSIBLE.
7. PROVIDE WEATHERPROOF CARD READERS, ROUGH-IN AND MOUNTING AT ALL EXTERIOR LOCATIONS.
8. LOCATE SECURE DOOR POWER SUPPLIES FURNISHED WITH DOOR HARDWARE PACKAGE CLOSE TO AND ON SECURE SIDE OF DOOR SERVED IN SERVICEABLE LOCATION ABOVE LAY-IN CEILING. LOCATE SECURE DOOR MAIN JUNCTION BOX RIGHT NEXT TO ASSOCIATED POWER SUPPLY. LABEL BOTH. REVIEW PROPOSED LOCATIONS WITH OWNER'S PROJECT MANAGER FOR MAINTENANCE ACCESSIBILITY PRIOR TO FINAL ROUGH-IN.
9. CARD READER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND INTENDED ONLY TO SHOW DOOR SERVED AND UNSECURE SIDE MOUNTING. THE OWNER'S PROJECT MANAGER AND ARCHITECT PROVIDE DIRECTION ON EXACT LOCATION OF ALL CARD READERS IN THE FIELD – WHICH MAY BE ANYWHERE IN THE VICINITY OF THE DOOR SERVED AT NO ADDITIONAL COST TO THE OWNER. THE GC SHALL REQUEST LOCATIONS WELL PRIOR TO COMMENCEMENT OF ROUGH-IN.
10. THE GC/CM SHALL PROVIDE OVERALL COORDINATION AND SCHEDULING FOR THE ACCESS CONTROL SYSTEM INCLUDING DIRECT COORDINATION BETWEEN THE ACSC AND EC FOR ROUGH-IN AND OTHER WORK ITEMS THAT ARE TIME CRITICAL. THE GC SHALL ALSO PROVIDE OVERALL COORDINATION OF EQUIPMENT LOCATIONS (CARD READERS) WITH THE ARCHITECT, OWNER, EC AND ACSC.
11. IF REQUIRED, PROVIDE WALL/MORTAR/JUNCTION BOXES AT ALL POWER TRANSFERS REGARDLESS OF WALL TYPE AND WHETHER DOOR FRAMES ARE MORTAR FILLED OR NOT. CONNECT CONDUIT TO BOXES WITH MORTAR TIGHT COMPRESSION FITTINGS. PROVIDE GROMMETS WHERE WIRING PASSES THRU OPENINGS IN METAL COMPONENTS. COMPLY WITH CODE FOR PROTECTION OF CONDUITS IN CONTACT WITH MORTAR OR CONCRETE.
12. FINAL DOOR NUMBERS SHALL BE BASIS FOR SYSTEM LABELING AND PROGRAMMING SHALL BE BASED ON FINAL ROOM NUMBERS USED FOR ROOM SIGNAGE. FINAL NUMBERING/LABELING SCHEME FOR DOORS OTHER SECURITY DEVICES SHALL BE WORKED OUT IN CLOSE COORDINATION WITH THE OWNER'S PROJECT MANAGER AND ARCHITECT.

ACCESS CONTROL SYSTEM CABLING REQUIREMENTS

1. PROVIDE JACKETED WIRE FOR ALL APPLICATIONS.
2. PROVIDE SHIELDED CABLE WHERE RECOMMENDED BY THE CONNECTED EQUIPMENT MANUFACTURER. TERMINATE SHIELD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. HOMERUN CARD READER CABLE FROM READER TO SERVING ACCESS CONTROL SYSTEM PANEL. PROVIDE SLACK IN CABLE AT MAIN PULL BOX AT EACH SECURE DOOR. MAKE ALL WIRING CONNECTIONS TO CABLE IN MAIN PULL BOX AT EACH SECURE DOOR.
4. FOR PURPOSES OF BIDS THE ACS CONTRACTOR SHALL PROVIDE THE FOLLOWING WIRING FOR THE ACS AND OTHER SECURITY SYSTEMS. FOLLOWING BIDS THE ACSC SHALL SHALL PROVIDE WIRING AS REQUIRED FOR EACH APPLICATION AT NO ADDITIONAL COST TO THE OWNER.
5. PROVIDE THE FOLLOWING WIRING TO EACH CARD READER: 6-CONDUCTOR/18 AWG
6. PROVIDE WIRING AS REQUIRED TO ALL OTHER ACCESS CONTROL AND SECURITY SYSTEM DEVICES AND POWER SUPPLIES.
7. CONDUCTOR QUANTITIES AND GAUGES ARE MINIMUM, PROVIDE HIGHER CONDUCTOR COUNT AND LARGER GAUGES AS REQUIRED FOR EACH WIRED DEVICE PER MANUFACTURER'S INSTRUCTIONS.

GENERAL CONDUIT NOTES - ACCESS CONTROL SYSTEM

1. RUN ALL ACCESS CONTROL SYSTEM CABLING CONTINUOUSLY IN CONDUIT. ALL INTERIOR CONDUIT SHALL BE EMT WITH STEEL COMPRESSION FITTINGS (SCREW FITTINGS AND DIE CAST FITTINGS ARE NOT ALLOWABLE). CONDUIT SIZE SHALL BE 1" MINIMUM OR LARGER AS INDICATED, EXCEPT WHERE 1/2" CONDUIT IS SPECIFICALLY ALLOWED AT LOCAL DOOR DEVICES. WHERE CONDUIT SIZE IS NOT SPECIFICALLY INDICATED PROVIDE SIZE AS REQUIRED FOR EACH CONDUIT RUN WITH MAXIMUM 30% CONDUIT FILL RATE.
2. ELECTRICAL CONTRACTOR PROVIDE ALL CONDUIT AS INDICATED AND ALL ADDITIONAL CONDUIT AS REQUIRED FOR A COMPLETE SYSTEM.
3. WHERE DOORS ARE MOUNTED IN A STOREFRONT SYSTEM ACSC RUN ALL WIRING IN EC PROVIDED CONDUIT CONCEALED IN STOREFRONT SYSTEM FRAMING. AT CONTRACTOR'S OPTION WIRING WITHIN THE STOREFRONT MAY BE RUN CONTINUOUSLY IN STAINLESS STEEL ARMORED FLEXIBLE CONDUIT, SIZE AS REQUIRED, CONNECTING TO THE EMT WITH A FITTING MADE FOR THAT PURPOSE CONCEALED IN A JUNCTION BOX ABOVE THE CEILING, BUT UNDER NO CIRCUMSTANCES SHALL ANY WIRING BE RUN WITHIN STOREFRONT FRAMING WITHOUT CONDUIT. CLOSELY COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR AND STOREFRONT SUPPLIER PRIOR TO MANUFACTURER OF STOREFRONT SYSTEM. DO NOT MOUNT CARD READERS IN STOREFRONT FRAMING UNLESS SPECIFICALLY DIRECTED TO DO SO BY THE OWNER – IF SO DIRECTED RUN WIRING TO CARD READER IN CONDUIT CONCEALED WITHIN STOREFRONT FRAMING AS DESCRIBED ABOVE.
4. RUN 1" HOMERUN CONDUIT FROM ACCESS CONTROL SYSTEM PANEL TO EACH SECURE DOOR JUNCTION BOX 'JB'. RUN 1/2" CONDUIT FROM 'JB' CONTINUOUS TO EACH POWER TRANSFER BACKBOX AND EACH CARD READER JUNCTION BOX. PROVIDE OTHER CONDUITS AS INDICATED IN DOOR DETAILS AND ELSEWHERE ON THE DRAWINGS AND AS REQUIRED BY THE ACSC.
5. RUN CONDUIT AND MOUNT JUNCTIONS BOXES FOR EACH SECURE DOOR ON THE SECURE SIDE OF THE DOOR SERVED IN AN ACCESSIBLE/SERVICABLE LOCATION ABOVE A LAY-IN CEILING AS CLOSE TO THE DOOR AS POSSIBLE OR IN A NEARBY ELECTRICAL EQUIPMENT ROOM. MOUNT ACS PANELS AND ASSOCIATED POWER SUPPLIES IN COMM ROOMS ONLY. MOUNT POWER SUPPLIES NEXT TO OR INSIDE OF ACS PANELS.
6. FIRE WALLS: FIRESTOP ALL FLOOR PENETRATIONS AND ALL PENETRATIONS OF FIRE RATED WALLS. FIRESTOP USING ASSEMBLY UL LISTED FOR THE SPECIFIC APPLICATION AND FLOOR OR WALL RATING. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND THE CONDITIONS OF THE UL LISTING.
7. SMOKE WALL PENETRATIONS AND PENETRATIONS OF WALLS EXTENDING UP TO THE STRUCTURE ABOVE: ALL CONDUIT PENETRATIONS OF ALL WALLS INDICATED ON THE ARCHITECTURAL DRAWINGS AS SMOKE WALLS/BARRIERS/PARITIONS AND ALL WALLS INDICATED ON THE ARCHITECTURAL DRAWINGS AS EXTENDING UP TO THE STRUCTURE ABOVE SHALL BE SEALED SMOKETIGHT WITH STI SMOKE 'N' SOUND SEALANT WITH UL LISTED 'L' SMOKE RATING AND 'ST' ACOUSTICAL RATING OF 62. SEALANT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS FOR ¼" SEALANT CAULK ON BOTH SIDES OF THE WALL. SEALANT INSTALLATION ON ONLY ONE SIDE OF THE WALL IS NOT ACCEPTABLE. AT THE CONTRACTOR'S OPTION PROVIDE AN ALTERNATE ACOUSTICAL SEALANT WITH EQUAL 'ST' RATING AT THRU PENETRATIONS OF NON-SMOKE WALLS THAT EXTEND UP TO THE STRUCTURE ABOVE FOR SOUND ISOLATION. INSTALL SAME AS INDICATED FOR STI SMOKE 'N' SOUND ABOVE.
8. RUN ALL CONDUIT CONCEALED ABOVE CEILINGS AND IN WALLS. EXPOSED WIRING, SURFACE RACEWAY AND ARMORED CABLES ARE NOT ALLOWED.
9. EC PROVIDE HEAVY DUTY PULL STRINGS IN ALL CONDUITS SERVING SECURE DOORS AND DEVICES AND PROVIDE PULL TAPE IN ALL BACKBONE CONDUITS BETWEEN ACS PANELS FOR USE BY CABLING INSTALLER – RUN CONTINUOUS FROM PULL POINT TO PULL POINT WITH NOT LESS THAN 10 FEET SLACK COILED AT EACH END.
10. LOCATION AND ROUTING OF ABOVEGROUND CONDUITS IS APPROXIMATE AND DEPICTS GENERAL DESIGN INTENT ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING FINAL CONDUIT ROUTING IN THE FIELD. THE CONTRACTOR SHALL COORDINATE THE FINAL ROUTING OF CONDUITS TO AVOID CONFLICTS WITH OTHER TRADES, WHILE MINIMIZING CHANGES IN DIRECTION AND OVERALL CONDUIT LENGTH.
11. CONDUITS SHALL BE RUN CONCEALED OVERHEAD ABOVE CEILINGS UNLESS LOCATED IN SPACES WITHOUT CEILINGS OR IN AN UNFINISHED SPACE SUCH AS EQUIPMENT ROOMS. SUPPORT EXPOSED CONDUIT AT A MINIMUM OF 4'-0" ON CENTER WITH 2-HOLE HEAVY DUTY GALVANIZED STEEL HARDWARE.
12. SUPPORT CONDUIT DIRECTLY FROM BUILDING STRUCTURE USING APPROVED HARDWARE. DO NOT SUPPORT CONDUIT FROM OTHER SYSTEMS COMPONENTS OR SUPPORTS. ROUTE ALL CONDUITS AS HIGH AS POSSIBLE. WHERE CONDUIT IS EXPOSED RUN HARD AGAINST WALL OR UNDERSIDE OF ROOF/FLOOR DECK. RUN ALL CONDUITS PARALLEL/PERPENDICULAR AND PLUMB WITH BUILDING LINES.
13. CONDUIT BODIES SUCH AS 'LB' FITTINGS ARE NOT ALLOWABLE.
14. PROVIDE PULLBOXES OF THE SAME TYPE AND SIZE AS THOSE INDICATED ON DRAWINGS FOR EACH RUN OF CONDUIT AT EVERY 100 FEET ON CENTER AND AT EACH END OF CONDUIT RUNS CONTAINING A TOTAL OF TWO 90 deg BENDS OR A COMBINATION OF LESSER BENDS TOTALING 180 deg (MINIMUM REQUIREMENTS – PROVIDE WHETHER SPECIFICALLY INDICATED OR NOT). CONDUIT RUNS CONTAINING MORE THAN TWO 90 deg BENDS WITHOUT A PULLBOX ARE NOT ALLOWABLE. FACTORY CONDUIT ELBOWS AND ALL OTHER BENDS SHALL HAVE A MINIMUM RADIUS OF SIX TIMES THE INTERNAL CONDUIT DIAMETER. CONDUIT OFFSETS AND PULLBOXES REQUIRED TO SUIT FIELD CONDITIONS AND TO CONFORM TO THESE REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
15. PULL BOXES SHALL BE 4" WIDE x 4" LONG x 2-1/8" DEEP NEMA 1 GALVANIZED STEEL WITH SCREW COVER. WHERE CONDUITS ARE TIGHTLY RACKED WITH UNIFORM SPACING, WIDER PULL BOXES MAY BE PROVIDED TO SERVE MULTIPLE CONDUITS. TERMINATE CONDUITS AT OPPOSITE ENDS OF PULLBOXES. DO NOT TERMINATE CONDUITS IN PULLBOXES AT RIGHT ANGLES TO EACH OTHER. HOMERUN CONDUITS SHALL NOT BE COMBINED INTO LARGER CONDUITS SERVING MULTIPLE DOORS OR DEVICES.
16. TERMINATE ALL CONDUIT ENDS WITH THREADED PLASTIC INSULATING BUSHINGS (PUSH-ON NOT ALLOWABLE). BUSHINGS MUST FIT TIGHTLY ON CONDUIT CONNECTOR THREADS. INSTALL ALL BUSHINGS PRIOR TO PULLING CABLE.
17. IDENTIFICATION: IDENTIFY ALL INDOOR ACS CONDUITS AND PULLBOXES ABOVE LAY-IN CEILINGS AT EVERY PULLBOX AND ON CONDUIT AT EACH COUPLER (PAINT ENTIRE COUPLER) WITH GREEN PAINT (CONFIRM COLOR WITH OWNER PRIOR TO PAINTING). DO NOT PAINT CONDUIT COUPLERS AND ENCLOSURES IN EQUIPMENT ROOMS. CONDUIT IN FINISHED SPACES WITH EXPOSED STRUCTURE CEILING SHALL BE PAINTED BY THE GENERAL CONTRACTOR TO MATCH ADJACENT FINISHES AND OTHER EXPOSED UTILITIES.



TYPICAL ACCESS CONTROL SYSTEM PANEL DETAIL

NOT TO SCALE (TYPICAL FOR MAIN PANEL AND ALL SUBPANELS IN CER)

ACCESS CONTROL SYSTEM SHEET LEGEND

CR	CARD READER	EM	ELECTRIFIED MORTISE	R.I.	ROUGH-IN
DPS	DOOR POSITION SWITCH	EMx	ELECTRIFIED MORTISE WITH INTEGRAL REX	02	DOOR DETAIL NUMBER
FR	FACIAL RECOGNITION	EL	ELECTRONIC LATCH	17	DOOR HARDWARE SET NUMBER
PA	PANIC BAR WITH LOCAL ALARM AND KEY RESET, WITH CRASH SENSOR TO SHUNT ALARM	M	MOTION REX	164	ARCHITECTURAL DOOR NUMBER
JB	JUNCTION BOX	MB	MORTAR BOX		
		PS	POWER SUPPLY		
		PT	POWER TRANSFER		

MOUNTING HEIGHTS:

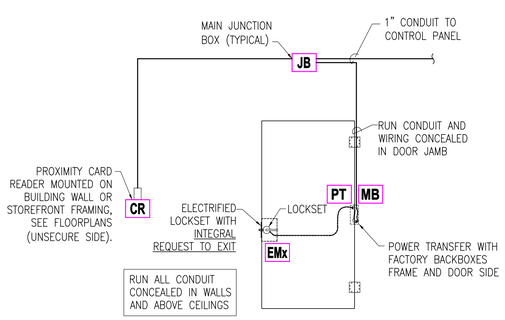
DOOR LAYOUTS INDICATED ON THIS SHEET ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW CORRECT HEIGHTS FOR DEVICES – COORDINATE MOUNTING HEIGHTS WITH ARCHITECT AND MOUNT AT CONSISTENT HEIGHTS – COMPLY WITH ADA.

DOOR HARDWARE NOTE

THE DOOR ACCESS CONTROL DEVICES SUCH AS CRASH BARS, POWER TRANSFER BACKBOXES, POWER TRANSFER HINGES DOOR POSITION SWITCHES, ETC. SHALL BE PRE-DRILLED AND WIRED IN THE DOORS AND STOREFRONT. RETROFIT INSTALLATIONS WILL NOT BE ALLOWED. COORDINATE WITH STOREFRONT AND DOOR CONTRACTORS.

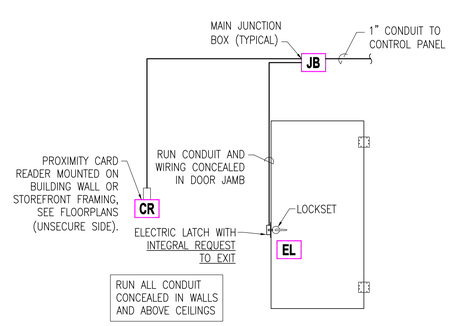
CK PB LOCATION NOTE

CARD READER LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND INTENDED ONLY TO SHOW DOOR SERVED AND UNSECURE SIDE MOUNTING. THE OWNER'S PROJECT MANAGER WILL LOCATE ALL LISTED DEVICES IN THE FIELD ANYWHERE IN THE GENERAL VICINITY OF THE DOOR SERVED AT NO ADDITIONAL COST TO THE OWNER. GC/CM, ACSC AND EC COORDINATE FINAL LOCATIONS WITH OWNER PRIOR TO BEGINNING ROUGH-IN. DEVICE HEIGHTS SHALL BE AS DIRECTED BY THE ARCHITECT.



DOOR ROUGH-IN DETAIL 01

N.T.S.



DOOR ROUGH-IN DETAIL 02

N.T.S.

DOOR ORIENTATION NOTE:

RIGHT HAND/LEFT HAND ORIENTATION FOR EACH DOOR SHALL BE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS – DOOR LAYOUTS INDICATED ON THIS SHEET ARE DIAGRAMMATIC AND NOT INTENDED TO PROVIDE CORRECT ORIENTATION.

DUST CONTROL NOTE

EXPOSURE TO CONSTRUCTION DUST AND DEBRIS INCLUDING GYP BOARD DUST PERMANENTLY DAMAGES PASSIVE AND ACTIVE COMPONENTS OF THE ACCESS CONTROL SYSTEM. THE CONTRACTOR SHALL PROTECT ALL CARD READERS, DOOR OPEN PUSHBUTTONS, LAW ENFORCEMENT KEYPADS, LOCKDOWN SWITCHES, THE VIDEO INTERCOM SYSTEM, AND ALL OTHER ACCESS CONTROL DEVICES ALONG WITH THE CER AND ALL CCs FROM DUST AND DEBRIS DURING CONSTRUCTION' AND UNTIL FINAL COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL NOT INSTALL ANY ELECTRONICS OR DRESS OUT AND TERMINATE CABLES UNTIL THE CER AND CCs ARE COMPLETELY AND CONTINUOUSLY ISOLATED FROM DUST INFILTRATION WITH HEAVY PLASTIC SHEETING AND DUCT TAPE. PROVIDE VESTIBULE IF REQUIRED. ALL SYSTEM COMPONENTS THAT, IN THE SOLE JUDGMENT OF THE OWNER OR ENGINEER, ARE EXPOSED TO EXCESSIVE ACCUMULATION OF CONSTRUCTION DUST/DEBRIS AT ANY STAGE OF THE PROJECT SHALL BE REMOVED AND REPLACED WITH NEW COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.

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PERMIT SET	12/08/2025

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BICSI 001 REGISTERED PROFESSIONAL
EXPIRES 31 AUG 2026

COMMUNICATIONS TYPICAL DETAILS

T2.06

VOICE SYSTEM SINGLE LINE KEY NOTES:

1. THE SCS CONTRACTOR SHALL NOTIFY THE OWNER UPON PROJECT AWARD AND AGAIN WHEN THE TELEPHONE SERVICE ENTRANCE CONDUIT AND BACKBOARD FACILITIES ARE IN PLACE AND SHALL COORDINATE ALL WORK RELATED TO THE TELEPHONE SERVICE ENTRANCE WITH THE LEC AND THE OWNER AS REQUIRED. THE OWNER SHALL PLACE THE ORDER FOR TELEPHONE CIRCUITS WITH THE LEC. THE LOCAL EXCHANGE CARRIER (LEC) FOR THIS PROJECT IS AT&T FIBER. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE TELEPHONE SERVICE ENTRANCE CONDUIT AND BACKBOARD FACILITIES ARE COMPLETED IN A TIMELY MANNER SUCH THAT TELEPHONE SERVICES TO THE SCHOOL ARE IN PLACE AND FULLY OPERATIONAL WELL AHEAD (2 WEEKS MINIMUM) OF SCHOOL OPENING.

2. CONTRACTOR SHALL PROVIDE CROSS-CONNECTS FROM DIRECT1 66 BLOCK TO CUST1 66 BLOCK AS REQUIRED TO CONNECT LEC SERVICES TO FAX, ELEVATOR, AND OTHER SPECIAL CIRCUITS IF THE OWNER ELECTS TO PURCHASE A DIAL-UP OR OTHER TELEPHONE BASED SERVICE FOR THOSE APPLICATIONS. COORDINATE WITH THE LEC, THE OWNER'S PROJECT MANAGER, EACH SPECIAL SERVICES PROVIDER AND THE TELEPHONE SYSTEM PROVIDER TO VERIFY PROPER OPERATION OF EACH CIRCUIT.

4. BY OWNER (OFOI): VOIP SYSTEM HEADEND EQUIPMENT.

6. ESSEX OR GENERAL CABLE 1010 25 PAIR CATEGORY 3 TELEPHONE CABLE, CMR JACKET, CUSTOM LENGTH, FIELD CONNECTORIZE AT OPTICAL NETWORK TERMINAL (DEMARC) END AS DIRECTED BY AT&T. PUNCH OTHER END DOWN ON 66 BLOCK.

6B. ESSEX OR GENERAL CABLE 1010 25 PAIR CATEGORY 3 TELEPHONE CABLE, CMR JACKET, COLOR GREY, CUSTOM LENGTH, PUNCH BOTH ENDS DOWN ON 66 BLOCK.

6C. ESSEX OR GENERAL CABLE 1010 25 PAIR CATEGORY 3 TELEPHONE CABLE, CMR JACKET, COLOR GREY, CUSTOM LENGTH, PUNCH ONE END DOWN ON 66 BLOCK, FIELD CONNECTORIZE OTHER END WITH 50-PIN TELCO CONNECTOR WITH GOLD PLATED CONTACTS, STANDARD TELCO PINOUT, FOR CONNECTION TO PRE-WIRED MODULAR PATCH PANEL, GENDER TO SUIT BLOCK CONNECTOR.

8. 24 PORT FACTORY PRE-CONNECTORIZED MODULAR VOICE PATCH PANEL, CATEGORY-3, WITH (24) EIGHT PIN MODULAR JACKS, EACH WITH ONE PAIR USOC WIRING PINOUT, PANDUIT VP24382TV25. PROVIDE WITH 24 FACTORY TELEPHONE ICON TABS, COLOR GREY. SEE "VOICE LABELING NOTES".

8B. 24 PORT FACTORY PRE-CONNECTORIZED TELEPHONE TRUNKS PATCH PANEL, CATEGORY-3, WITH (24) EIGHT PIN MODULAR JACKS, EACH WITH ONE PAIR USOC WIRING PINOUT, PANDUIT VP24382TV25. PROVIDE WITH 24 TELEPHONE ICON TABS, COLOR PURPLE (VIOLET).

9. HALF MODULE GREEN METAL BACKBOARD WITH FOUR 89D BRACKETS, RELTEC R183A3 OR EQUAL BY ALLEN TEL. PROVIDE FOUR CATEGORY 5 66 BLOCKS, SIEMON S66M1-50. PROVIDE EACH BLOCK WITH TWO ORGANIZER RINGS FOR ROUTING CROSS-CONNECTS, SIEMON S606P. PROVIDE CUSTOMER SIDE TELEPHONE SERVICE ENTRANCE BLOCK "CUST 1" WITH GREEN COVER, SIEMON MC4LH-7. PROVIDE BLOCK "PHONE 1" WITH PURPLE COVER, SIEMON MC4LH-8. PROVIDE BLOCKS "SPARE" WITH CLEAR COVER, SIEMON MC4. PROVIDE LABEL, SIEMON MC4-LBL-25, FOR EACH COVER. SEE "VOICE LABELING NOTES".

9A. HALF MODULE BLUE METAL BACKBOARD WITH EIGHT 89D BRACKETS, RELTEC R183A1 OR EQUAL BY ALLEN TEL. PROVIDE FOUR CATEGORY 5 66 BLOCKS, SIEMON S66M1-50. PROVIDE EACH BLOCK WITH TWO ORGANIZER RINGS FOR ROUTING CROSS-CONNECTS, SIEMON S606P. PROVIDE BLOCK "B1" AND "B2" WITH BLUE COVER, SIEMON MC4LH-6. PROVIDE BLOCK "DIRECT 1" WITH CLEAR COVER, SIEMON MC4. PROVIDE BLOCK "SPARE" WITH CLEAR COVER, SIEMON MC4. PROVIDE LABEL, SIEMON MC4-LBL-25, FOR EACH COVER. SEE "VOICE LABELING NOTES".

10. FULL WHITE BACKBOARD, RELTEC R187B1.

12. EQUIPMENT ROOM VOICE PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY 6+ MODULAR PATCH CORD (UTP) 4-PAIR UNSHIELDED CABLE WITH 23 GAGE SOLID COPPER CONDUCTORS, COLOR GRAY. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, BELDEN C6011xxxxx (NO EQUAL). FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING AT SUBMITTAL.

12A. EQUIPMENT ROOM SPECIAL SERVICES PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY 6+ MODULAR PATCH CORD (UTP) 4-PAIR UNSHIELDED CABLE WITH 23 GAGE SOLID COPPER CONDUCTORS, COLOR PINK. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, BELDEN C6011xxxxx (NO EQUAL). FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. SEE DATE SINGLE FOR PATCH CORD QUANTITIES AND LENGTHS. PROVIDE DOCUMENTATION OF FACTORY TESTING AT SUBMITTAL.

13. SOLID COPPER INSULATED GROUNDING CONDUCTOR, #6 AWG. BOND TO BACKBOARD MOUNTED MAIN GROUNDING BUSBAR.

15. HORIZONTAL UN-LOADED PATCH PANEL, 48 PORT, SEE DATA SINGLE LINE.

16. TIA CATEGORY 6 DATA/VOIP HORIZONTAL CABLING, 4 PAIR UTP, 23 GAGE SOLID COPPER CONDUCTORS. MAXIMUM INSTALLED LENGTH 90 METERS (295'). PROVIDE DOCUMENTATION OF CURRENT UL CERTIFICATION WITH SUBMITTALS. PROVIDE WITH CMP (PLENUM) JACKET, COLOR GREY. SEE DATA SINGLE LINE DIAGRAM FOR APPROVED CABLES.

17. TYPE "D2" COMMUNICATIONS OUTLET (CO) WITH TWO (2) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS.

17A. TYPE "D4" COMMUNICATIONS OUTLET (CO) WITH FOUR (4) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS.

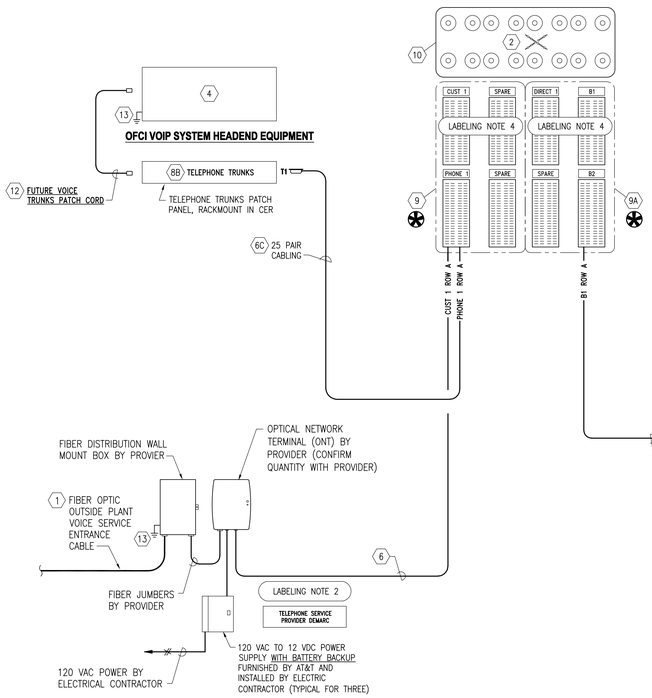
20. CATEGORY 6 PATCH CORDS FOR VOIP PHONES, SEE DATA SINGLE LINE.

21. BY VOIP SYSTEM PROVIDER (N.I.C.): VOIP HANDSETS. CONTRACTOR PROVIDE ALL PATCHING IN RACKS AND ASSIST VOIP SYSTEM PROVIDER IN PLACING SETS AND PROFESSIONALLY INSTALLING WORKSTATION PATCH CORDS.

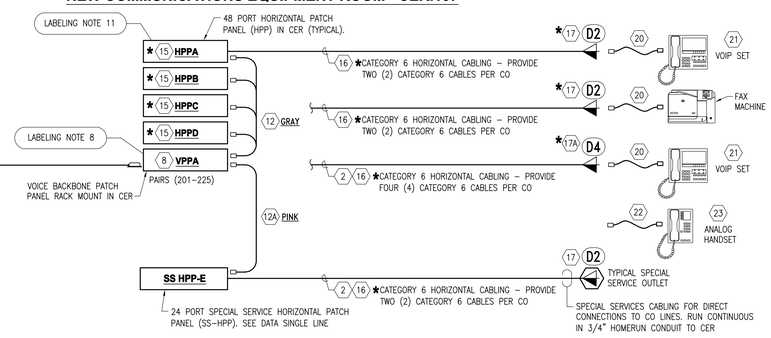
22. SILVER SATIN CORDS PROVIDED WITH ANALOG HANDSETS. FOR BACKUP SHOULD VOIP SYSTEM FAIL.

23. BY VOIP SYSTEM PROVIDER (N.I.C.): ANALOG HANDSETS. CONTRACTOR PROVIDE ALL PATCHING IN RACKS AND ASSIST SYSTEM PROVIDER IN PLACING SETS AND PROFESSIONALLY INSTALLING WORKSTATION PATCH CORDS.

CER.107



NEW COMMUNICATIONS EQUIPMENT ROOM - CER.107



VOICE SYSTEM SINGLE LINE CONFIGURATION DIAGRAM

NOT TO SCALE

LABELING NOTE 1

NOTE: RUN ALL CABLES CONTINUOUS BETWEEN TERMINATION POINTS INDICATED WITH NO INTERMEDIATE SLICES OR TERMINATIONS.

VOICE LABELING NOTES:

1) CONTRACTOR PROVIDE ANNOTATED ADOBE .PDF FILES OF AS-BUILT DRAWINGS, ALL 'I' SHEETS. PROVIDE 3 BOUND 1/2 SIZE HARD COPY PLOTS AND 3 CD'S WITH .PDF FILES. STORE IN DOCUMENTATION SHELF IN CER.

2) PROVIDE ENGRAVED PLASTIC TAG WITH DOUBLE SIDED TAPE, WHITE WITH 3/16" HIGH BLACK LETTERS "TELEPHONE SERVICE PROVIDER DEMARC", SECURE TO BACKBOARD WITH SS SCREWS, SEE BACKBOARD ELEVATIONS.

4) PROVIDE ENGRAVED PLASTIC TAG WITH DOUBLE SIDED TAPE, WHITE WITH 1/8" HIGH BLACK LETTERS' SECURE TO 66 BLOCK HINGED COVER. LABEL EACH BLOCK AS INDICATED ON SINGLE LINE DIAGRAM (EXAMPLE "CUST 1"). PROVIDE SIEMON MC4-LBL-25 ADHESIVE BACKED LABEL ON INSIDE OF COVER - TYPE BEFORE INSTALLING WITH FOLLOWING TEXT:

CUST 1 = CUSTOMER SIDE OF INCOMING TELEPHONE SERVICE PAIRS 101-125
PHONE 1 = VOIP SYSTEM TRUNK BLOCK
DIRECT 1 = DIRECT CO LINE CONNECTION BLOCKS
B1 = BACKBONE BLOCK PAIRS 201-250
B2 = BACKBONE BLOCK PAIRS 251-300

8) PATCH PANEL IS FACTORY NUMBERED PORTS 1-24. PROVIDE ENGRAVED PLASTIC TAG MOUNTED ON RACK BLANK ABOVE BLOCK. TAG SHALL INDICATE "VOICE BACKBONE DISTRIBUTION" IN CER ALONG WITH CABLE PAIR COUNTS AND PORT NUMBERS. FOR INSTALLATION DETAILS SEE RACK ELEVATIONS, FOR TAG FABRICATION, SEE "TYPICAL VOICE BLOCK ENGRAVED TAG DETAIL". FOR PAIR COUNTS SEE THIS SHEET.

11) SEE "CATEGORY 6 AND 6A HORIZONTAL PATCH PANEL TERMINATION/LABELING REQUIREMENTS" SHEET T-304 FOR LABELING OF HORIZONTAL PATCH PANELS.

USER/SERVICE COLOR SCHEDULE

SERVICE	EQUIPMENT ROOM PATCH CORDS	PATCH PANEL JACK ICON COLOR	HORIZONTAL CABLING	'CO' MODULAR JACKS	WORK AREA PATCH CORDS
DATA	CAT 6 - BLACK	CAT 6 JACK - BLACK	CAT 6 - GRAY	CAT 6 - MATCH FACEPLATE COLOR	CAT 6 - BLACK
VOIP	CAT 6 - BLUE	CAT 6 JACK - BLACK	CAT 6 - GRAY	CAT 6 - MATCH FACEPLATE COLOR	CAT 6 - GRAY
SECURITY CAMERAS	CAT 6 - RED	CAT 6A JACK - RED	CAT 6A - RED	N/A	N/A
WAP	CAT 6A - PURPLE	CAT 6A JACK - PURPLE	CAT 6A - PURPLE	N/A	N/A
INTERCOM/PA	CAT 6 - YELLOW	CAT 6 JACK - YELLOW	CAT 6 - YELLOW	N/A	N/A
DDC	CAT 6 - ORANGE	CAT 6 JACK - ORANGE	CAT 6 - ORANGE	CAT 6 - ORANGE	CAT 6 - ORANGE
ACCESS CONTROLS	CAT 6 - WHITE	CAT 6 JACK - WHITE	CAT 6 - WHITE	CAT 6 - WHITE	CAT 6 - WHITE
LIGHTING CONTROLS	CAT 6 - GREEN	CAT 6 JACK - GREEN	CAT 6 - GREEN	CAT 6 - GREEN	CAT 6 - GREEN
FIRE ALARM	CAT 6 - PINK	CAT 6 JACK - PINK	CAT 6 - PINK	CAT 6 - PINK	CAT 6 - PINK
ELEVATOR	CAT 6 - PINK	CAT 6 JACK - PINK	CAT 6 - PINK	CAT 6 - PINK	CAT 6 - PINK

VOICE PATCH CORD SCHEDULE

TYPE	LENGTH/QTY	LENGTH/QTY	LENGTH/QTY	LENGTH/QTY	LENGTH/QTY	LENGTH/QTY
12	3' / 10	5' / 10	10' / 10	15' / 5	20' / 5	-- / --

*** NOTE !**
HORIZONTAL WIRING, HORIZONTAL PATCH PANELS, 8-PIN MODULAR JACKS AND COMMUNICATIONS OUTLETS (COs) INDICATED IN VOICE SYSTEM SINGLE LINE AND DATA SINGLE LINE ARE THE SAME DEVICES/EQUIPMENT SHOWN USED FOR EITHER VOICE OR DATA SERVICE.

RUN ALL 25 PAIR CABLING CONCEALED IN CABLING CHANNELS UNDER S89D STANDOFF BRACKETS ON BACKBOARDS. FAN OUT THRU S89D BRACKET OPENINGS AND PUNCH DOWN ON OUTER ROWS ("A" OR "D") OF 66 BLOCKS AS INDICATED.

VOICE PATCH CORD SCHEDULE NOTES:

1) VERIFY ALL PATCH CORD QUANTITIES AND LENGTHS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION AND PROVIDE COPY OF RECEIPT SIGNED BY OWNER'S PROJECT MANAGER IN O&M MANUALS.

2) SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR PATCH CORD DELIVERY AND INSTALLATION. THE STRUCTURED CABLING SYSTEM CONTRACTOR SHALL ASSIST THE TELEPHONE SYSTEM PROVIDER IN INSTALLING PATCH CORDS FOR EACH TELEPHONE INSTRUMENT. ALL PATCH CORDS SHALL BE INSTALLED IN WIRE MANAGEMENT HARDWARE, UTILIZING LENGTHS THAT MAKE CONNECTIONS REQUIRED WITHOUT EXCESS STORAGE IN WIREWAYS. ALL PATCH CORDS SHALL BE NEATLY ROUTED, BUNDLED AND SECURED AT 6" ON CENTER WITH BLACK VELCRO STRAPS. BUNDLE VOICE PATCH CORDS SEPARATELY, DO NOT BUNDLE WITH DATA PATCH CORDS.

3) PROVIDE EXCEL SPREADSHEET IDENTIFYING CONNECTIONS MADE, SEE SPECIFICATIONS.

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PERMIT SET	12/08/2025

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CHECKED BY: GAC

FRICKER RESOURCE CENTER RENOVATION PROJECT
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GMC # APEN250016

VOICE SYSTEM SINGLE LINE CONFIGURATION DIAGRAM

T3.01

DATA SYSTEM SINGLE LINE KEY NOTES

(6) FIBER OPTIC PATCH CORD, DUPLEX FIBER, 50/125 OM3 MULTIMODE, DUAL 'SC' CONNECTORS ONE END AND OTHER END TO SUIT OWNER FURNISHED NETWORK EQUIPMENT, BELDEN (COLOR AQUA). PROVIDE QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. VERIFY END CONNECTORS REQUIRED PRIOR TO PURCHASING, SEE "FIBER PATCH CORD NOTE" THIS SHEET.

(8) EQUIPMENT ROOM DATA PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6A (MINIMUM) FOUR PAIR 100-OHM UNSHEILDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, COLOR PER COLOR SCHEDULE WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, BELDEN CA211xxxxx. FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING CATEGORY-6A REQUIREMENTS AT SUBMITTAL.

(8A) WIRELESS ACCESS POINT (AP) PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6A (MINIMUM) FOUR PAIR 100-OHM UNSHEILDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, COLOR PER COLOR SCHEDULE WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, BELDEN CA211xxxxx. FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING CATEGORY-6A REQUIREMENTS AT SUBMITTAL.

(8B) EQUIPMENT ROOM VOIP PHONE PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6A (MINIMUM) FOUR PAIR 100-OHM UNSHEILDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, COLOR PER COLOR SCHEDULE WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, BELDEN CA211xxxxx. FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING CATEGORY-6A REQUIREMENTS AT SUBMITTAL.

(8C) EQUIPMENT ROOM IP SECURITY CAMERA PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6A (MINIMUM) FOUR PAIR 100-OHM UNSHEILDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, COLOR PER COLOR SCHEDULE WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, BELDEN CA211xxxxx. FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING CATEGORY-6A REQUIREMENTS AT SUBMITTAL.

(9) HORIZONTAL UN-LOADED CATEGORY 6A REVCONNECT PATCH PANEL CONNECTIONS, 48 PORT, TIA 568A PINOUT, BELDEN RVMPPF2U48BK-P. PROVIDE WITH FACTORY PLASTIC LABELING WINDOWS AND BELDEN AX107527 ACCESSORY NON-ADHESIVE LABEL SHEETS, FACTORY CABLE MANAGEMENT BAR, AND MOUNTING HARDWARE. PROVIDE WITH TIA CATEGORY 6A 10GX 8-PIN MODULAR JACKS IN ALL PORTS, BELDEN RVAMJKU**-P COLOR TO MATCH THE USER/SERVICE COLOR SCHEDULE.

(10) TIA CATEGORY 6 HORIZONTAL CABLING, 4 PAIR UTP, 23 GAGE SOLID COPPER CONDUCTORS. MAXIMUM INSTALLED LENGTH 90 METERS (295'). PROVIDE DOCUMENTATION OF CURRENT UL CERTIFICATION WITH SUBMITTALS. PROVIDE WITH CMR (RISER) JACKET COLOR GREY. SEE SCHEDULE THIS SHEET FOR APPROVED CABLES.

(11) TYPE "D2" COMMUNICATIONS OUTLET (CO) WITH TWO (2) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS.

(11A) TYPE "AP" COMMUNICATIONS OUTLET (CO) WITH TWO (2) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS. PROVIDE 'AP' CO, 'AP' PATCH PANEL AND 'AP' PATCH CORDS FOR 'AP' LOCATIONS INDICATED ON PLAN.

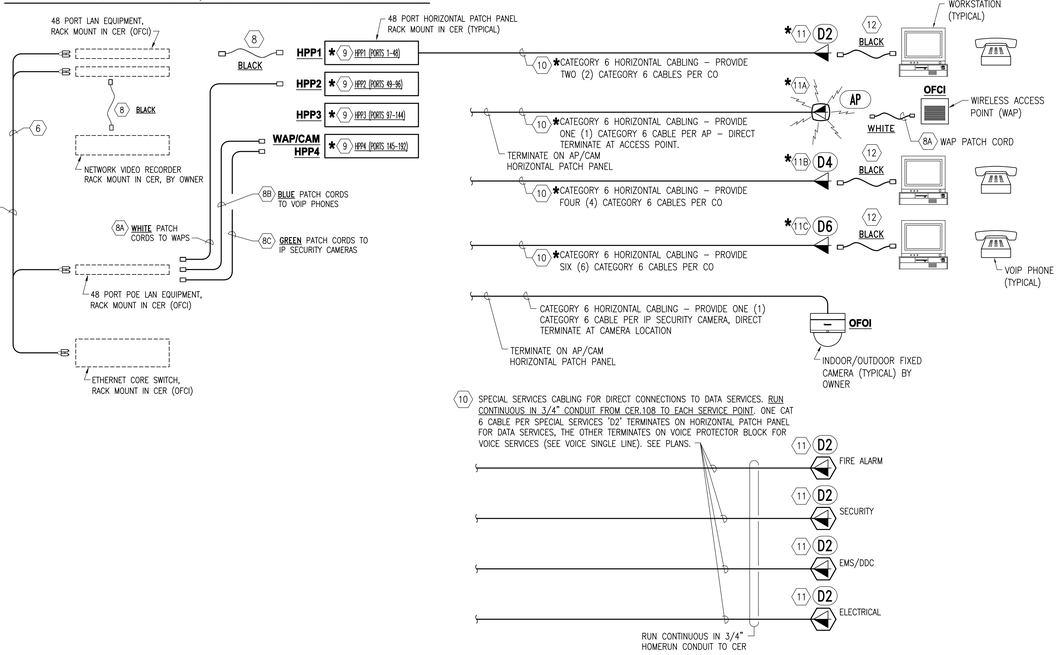
(11B) TYPE "D4" COMMUNICATIONS OUTLET (CO) WITH FOUR (4) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS.

(11C) TYPE "D6" COMMUNICATIONS OUTLET (CO) WITH SIX (6) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS.

(12) WORKSTATION PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6 (MINIMUM) FOUR PAIR 100-OHM UNSHEILDED TWISTED PAIR (UTP) CABLE WITH 23 GAGE STRANDED COPPER CONDUCTORS, COLOR PER COLOR SCHEDULE WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, BELDEN C6011xxxxx. FIELD BUILT OR ASSEMBLED PATCH CORDS WILL NOT BE ACCEPTED. PROVIDE PATCH CORD QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. PROVIDE DOCUMENTATION OF FACTORY TESTING CATEGORY-6 REQUIREMENTS AT SUBMITTAL.

COMMUNICATIONS EQUIPMENT ROOM - CER.108

FIBER PATCH CORD NOTE: FIBER PATCH CORDS CONNECTING TO OWNER FURNISHED EQUIPMENT SHALL HAVE ENDS TO SUIT THE EQUIPMENT. THE CONTRACTOR SHALL CONTACT THE OWNER'S PROJECT MANAGER PRIOR TO PURCHASING FIBER PATCH CORDS TO DETERMINE THE TYPES OF FIBER PATCH CORD ENDS REQUIRED.



DATA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM

NOT TO SCALE

NOTE: RUN ALL CABLES CONTINUOUS BETWEEN TERMINATION POINTS INDICATED WITH NO INTERMEDIATE SLICES OR TERMINATIONS.

SNAP-N-SEAL® "F" MALE ENVIRONMENTALLY SEALED CONNECTORS SNS59, SNS59HEC, SNS59QS, SNS6, SNS6QS
Pat. No. 4,902,246

1. Slide connector assembly over cable as shown. (When using Messenger/Siamese cable, Rib must be removed flush with cable jacket before connector installation, this step will insure proper installation and sealing).
2. Prepare cable using LRC #CST596 or #IT1000 tool as follows:
   Cut the cable end off square before starting the prep.
   (A) IT1000 tool: depress slide, then insert the cable up to the stop. Grip cable close to tool and rotate tool approx. 1 to 3 full turns or until tool moves freely. Pull tool off cable, removing jacket prep and dielectric from center conductor.
   (B) CST596 tool: open tool by squeezing the handles, then insert the cable up to the cable stop. Grip cable close to tool and rotate tool approx. 8 to 12 full turns or until tool moves freely. Pull tool off cable, removing jacket prep and dielectric from center conductor.
3. Cable end should be prepared as shown.
4. If using single braid cables, fold the braid over the jacket. If using double braid cables, fold the outer braid over the jacket. Score and remove foil (if applicable). Fold the inner braid over the jacket.

1

SNAP-N-SEAL® "F" MALE ENVIRONMENTALLY SEALED CONNECTORS SNS59, SNS59HEC, SNS59QS, SNS6, SNS6QS
Pat. No. 4,902,246

5. Twist connector to remove from plastic sleeve. (plastic ring may relay attached between connector collar and nut).
   Place connector over cable end until cable dielectric is flush with end of post. Push plastic sleeve into connector.
6. Finish the connector to cable installation using LRC #SNSUTL or #IT1000 installation tool.
   (A) Using IT1000 tool: place connector assembly inside tool as shown. Squeeze handle until the plastic sleeve snaps into the connector.
   The plastic sleeve is in proper position when the connector is compressed to the indicator line surrounding on the tool. A white indicator will also be visible thru the tool "sight hole".
   (B) Using SNSUTL tool: align top of tool with the connector "U Groove", and push the connector and cable into the tool until the plastic sleeve is seated. To be held in place by the bottom of the tool, and the plastic sleeve should be seated into the "Clip Pocket".
   Squeeze the handles together until the plastic sleeve snaps into place.
   Seal the connector to the port using LRC's Nut Seal or Thread Seal.
   (A) Nut Seal: Thread nut seal all the way onto the F port with the O-ring facing out (minimum port length of .281 is required). Thread connector onto the port. Wrench tighten connector to 25 to 30 in lbs. torque. When connector is tight, screw the nut seal back against the connector. Tighten nut seal 25 to 30 in lbs.

CONTINUED ON NEXT PAGE

2

SNAP-N-SEAL® "F" MALE ENVIRONMENTALLY SEALED CONNECTORS SNS59, SNS59HEC, SNS59QS, SNS6, SNS6QS
Pat. No. 4,902,246

(B) Thread Protectors:
Using the TP Chart, determine which thread protector should be used for your port length.

TP CHART

LRC PART #	MIN. PORT LENGTH	MAX. PORT LENGTH	FIG.#
TP275	.275	.335	1
TP450	.450	.510	2

Push the larger diameter end, (see Fig. 1 or 2), over the F interface until seated against the interface surface (see Fig. 3).

7. Thread SNS connector onto the port and wrench tighten 25 to 30 in lb. The end of the F connector nut should push against the end of the thread protector to ensure proper sealing.

COLOR CODE CHART

PART NUMBER	O-RING COLOR
SNS59	Orange
SNS59QS	Green
SNS59HEC	White
SNS6	Blue
SNS6QS	Violet

3

COAXIAL CABLE TERMINATION INSTRUCTIONS

NOT TO SCALE

(CONTRACTOR OBTAIN FACTORY INSTRUCTIONS FOR SNAP-N-SEAL RG-11 CABLES AND ALL OTHER SNAP-N-SEAL CONNECTORS NOT LISTED ABOVE. CONTRACTOR IS RESPONSIBLE FOR MATCHING THE CORRECT SNAP-N-SEAL CONNECTOR WITH THE SPECIFIED CABLES USED.)

TV SYSTEM SIGNAL LEVEL TUNING NOTES:

1) CONTACT OWNER'S PROJECT MANAGER PRIOR TO COMMENCING SYSTEM TUNING TO COORDINATE TUNING PLAN.

2) THE CONTRACTOR SHALL PROVIDE A SIGNAL LEVEL METER FOR ALL SYSTEM TESTING. THE CONTRACTOR SHALL BE THOROUGHLY TRAINED IN THE USE OF THE METER. METER SHALL BE EITHER A TEKTRONICS RFM 150 SIGNAL SCOUT OR A SADELCO DISPLAYMAX 800CLI.

3) THE CONTRACTOR SHALL TUNE THE SYSTEM TO PROVIDE TARGET SIGNAL LEVEL OF +5 dB AT EACH OUTLET ACROSS THE FULL RANGE OF SYSTEM DESIGN FREQUENCIES (CHANNEL 2 thru CHANNEL 152) WITH AN ACCEPTABLE RANGE OF +3 TO +10 dB.

4) AMPLIFIER TUNING: (THESE SETTINGS ARE BASED ON CALCULATIONS AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE FINAL SETTINGS BY MEANS OF THOROUGH FIELD TESTING).

- MAIN DISTRIBUTION AMPLIFIERS: THE CONTRACTOR SHALL TUNE THE MAIN DISTRIBUTION AMPLIFIERS AS FOLLOWS:

  GAIN ADJUSTMENT: SET GAIN CONTROL TO ACHIEVE AMPLIFIER OUTPUT SIGNAL LEVEL AS REQUIRED TO PROVIDE FLAT +3 dB TO +10 dB SIGNAL AT TV OUTLETS.

  SLOPE ADJUSTMENT: SET SLOPE CONTROL ACHIEVE AMPLIFIER OUTPUT SIGNAL LEVEL AS REQUIRED TO PROVIDE FLAT +3 dB TO +10 dB SIGNAL AT TV OUTLETS.

5) WHERE ADDITIONAL SIGNAL ATTENUATION IS REQUIRED TO ACHIEVE SIGNAL STRENGTH IN THE ACCEPTABLE RANGE OF +3 TO +10 dB AT OUTLETS, PROVIDE TONER 'FAM' FIXED IN-LINE ATTENUATORS ATTACHED DIRECTLY TO ASSOCIATED SPLITTER OR TAP OUTPUT PORT AS REQUIRED TO REDUCE SIGNAL LEVEL TO WITHIN A RANGE OF +3 TO +10 dB AT EACH OUTLET ACROSS THE FULL RANGE OF SYSTEM DESIGN FREQUENCIES. THESE REQUIREMENTS ARE BASED ON CALCULATIONS AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE ACTUAL REQUIREMENTS FOR ATTENUATORS BY MEANS OF THOROUGH FIELD TESTING.

6) THE CONTRACTOR SHALL CONNECT A STANDARD TV RECEIVER TO EACH OUTLET AND OBSERVE PICTURE QUALITY. NO VISIBLE COMPONENTS OF CROSS CHANNEL INTER-MODULATION (WINDSHIELD WIPER EFFECTS), GHOSTING OR BEAT INTERFERENCE SHALL APPEAR IN THE SCREEN OF A RECEIVER TUNED TO NORMAL SIGNALS ACROSS THE ENTIRE RANGE OF SYSTEM DESIGN FREQUENCIES. VERIFY PICTURE QUALITY "OK" AND COMPLETE ALL FIELDS ON "TV OUTLET TUNING LOG FORM".

TV SYSTEM CABLE DISTRIBUTION GENERAL NOTES:

1) REFER TO FLOOR PLANS FOR ACTUAL DEVICE COUNTS.

2) CABLE SHALL BE CONTINUOUS BETWEEN DEVICES. INTERMEDIATE SPLICES OR COUPLINGS ARE NOT ALLOWABLE.

3) ALL RG-6 AND RG-11 COAXIAL CONNECTORS SHALL BE 'F' TYPE, AUGAT/THOMAS & BETTS/TONER "LRC" SNAP-N-SEAL. ALL COAXIAL CONNECTIONS SHALL BE MADE BY TRAINED TECHNICIANS WITH PROFESSIONAL GRADE TOOLS SPECIFICALLY MANUFACTURED FOR EACH CONNECTOR TYPE.

4) PROVIDE ONLY ENOUGH SLACK IN TV RG-6 AND RG-11 CABLES TO RE-CONNECTORIZE CABLES THREE TIMES. DO NOT PROVIDE CABLE SLACK LOOPS IN TV CABLES AS IS REQUIRED FOR VOICE AND DATA CABLES.

5) PROVIDE TONER F59-T 75 Ohm TERMINATORS AT EACH UNUSED PORT OF ALL SPLITTERS, TAPS AND OUTLETS.

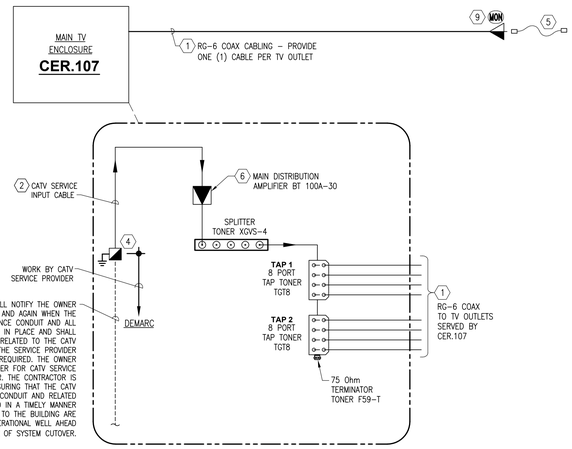
6) LABEL EACH RG-11 COAXIAL TRUNK CABLE AT EACH END INDICATING ORIGINATION AND DESTINATION. LABEL EACH RG-6 COAXIAL OUTLET CABLE AT EACH END INDICATING OUTLET INDENTIFICATION (SEE "TV OUTLET IDENTIFICATION NOMENCLATURE"). LABELS SHALL BE LOCATED WITHIN 4" OF CABLE END CONNECTIONS AND SHALL BE READILY VISIBLE FOR TROUBLESHOOTING. LABELS SHALL BE ADHESIVE MYLAR WRAP-AROUND WITH LASER PRINTED TEXT. LABEL TAPS AND SPLITTERS WITH NUMBERS AS INDICATED ON SINGLE LINE DIAGRAM.

7) TEST EACH CABLE FOR CONTINUITY AND ATTENUATION. CHECK EACH CABLE FOR CORRECT TERMINATION – REMAKE ALL CONNECTORS THAT ARE NOT PROPERLY TERMINATED. VERIFY PROPER GROUNDING AT SERVICE ENTRANCE AND AT ALL SURGE SUPPRESSION DEVICES.

8) MAINTAIN EXISTING TV SYSTEM IN FULL SERVICE UNTIL NEW SYSTEM IS COMPLETE AND FULLY FUNCTIONAL. PROVIDE ALL TEMPORARY HOOK-UPS AS REQUIRED DURING CUTOVER TO NEW SYSTEM

PATCH CORD NOTES:

PROVIDE QUANTITY OF PATCH CORDS (LENGTH AND USER COLOR) AS REQUIRED TO PATCH 100% OF THE WORK AREA AND RACK JACKS PLUS 5%. ALL OUTLETS WILL NOT BE PATCHED AT THE END OF THE PROJECT, TURN OVER UNUSED PATCH CORDS TO THE OWNER. FULL INVENTORY OF REQUIRED, USED AND SPARE MUST BE SIGNED OFF BY THE OWNER PRIOR TO PROJECT CLOSEOUT.



TV SYSTEM KEY NOTES:

(1) RG-6 COAXIAL TV CABLE, RISER JACKET, RUN CONTINUOUS WITH NO SPLICES OR COUPLERS TO TV OUTLET. SEE SCHEDULE.

(2) RG-11 COAXIAL TV CABLE, RISER JACKET, RUN CONTINUOUS WITH NO SPLICES OR COUPLERS. SEE SCHEDULE.

(4) TV SURGE PROTECTOR, EDCO CATV-145A, MOUNT TO BACK OF METAL ENCLOSURE AND PROVIDE #6 GROUNDING CONDUCTOR TO GROUNDING BUSBAR. TERMINATE ALL GROUNDS WITH ONE HOLE COMPRESSION LUGS.

(5) PROFESSIONAL GRADE FACTORY MADE JUMPERS, RG-6 COAX WITH SCREW-ON 'F' TYPE SWIVEL "GOLD" CONNECTORS EACH END, QUANTITY EQUAL TO NUMBER OF TV OUTLETS PLUS 25% SPARE, LENGTH AS REQUIRED.

(6) BLONDER TONGUE MODEL BIDA 100A-30 WITH INTEGRATED ACTIVE RETURN PATH MAIN DISTRIBUTION AMPLIFIER. TUNE IN ACCORDANCE WITH "TV SYSTEM SIGNAL LEVEL TUNING NOTES".

(9) WALL MOUNTED DISPLAY OUTLET, TYPE 'MON'. SEE DETAILS.

TV CABLE SPECIFICATIONS

CABLE TYPE	RATING	BELDEN	COMMSCOPE
RG-6	NON-PLENUM	9116	5726
RG-11	NON-PLENUM	1523A	5913

TV SYSTEM LEGEND

- (TV) TV OUTLET, SEE PLANS AND DETAILS
- TV SURGE PROTECTOR WITH GROUND
- DISTRIBUTION AMPLIFIER

TV SYSTEM CABLE DISTRIBUTION SINGLE LINE CONFIGURATION DIAGRAM

NOT TO SCALE

SEE PLANS FOR EXACT OUTLET QUANITY

NOTE: RUN ALL CABLES CONTINUOUS BETWEEN TERMINATION POINTS INDICATED WITH NO INTERMEDIATE SLICES OR TERMINATIONS.

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ISSUE	DATE
PERMIT SET	12/08/2025
REVISION 2	05/01/2026

DRAWN BY: JEC
CHECKED BY: CAC

FRICKER RESOURCE CENTER RENOVATION PROJECT
900 N F St, Pensacola, FL 32501-2887
GMC # APEN250016

DATA AND TV SYSTEM SINGLE LINE CONFIGURATION DIAGRAMS

T3.02

CER/CC GROUNDING NOTES

1. ALL GROUND CONNECTIONS SHALL BE MADE WITH HEAVY DUTY 2 HOLE COMPRESSION LUGS (HARGER GECLB4-2C FOR #4AWG, GECLB6-2C FOR #6AWG) AND 3/8"ø SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS (TWO SCREWS AND NUTS PER 2 HOLE LUG).

2. PROVIDE GROUNDING BUSBAR IN 'CC' AS INDICATED. ELECTRICAL CONTRACTOR GROUND CC BUSBAR TO BUILDING MAIN ELECTRICAL SERVICE GROUND (BUILDING IN WHICH CC IS LOCATED) WITH #4 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR. RUN CONDUCTOR FROM BUSBAR LOCATION TO BUILDING MAIN ELECTRICAL SERVICE GROUND IN EMT CONDUIT. PROVIDE UL LISTED RIGID CONDUIT THREADED MALLEABLE IRON INSULATED GROUNDING BUSHING WITH BRONZE LUG (O-Z/GEDNEY TYPE IBC-L-BC) AT BOTH CONDUIT ENDS AND GROUND EACH END PER NEC. GROUNDING TO BUILDING STRUCTURE, CONDUITS, UTILITY PIPING, OR ELECTRICAL SUBPANELS IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.

3. BOND STATIC DISSIPATIVE TILE (SDT) FLOOR GROUNDING LEAD TO MAIN GROUNDING BUSBAR. RUN IN 3/4" EMT CONDUIT UP BACKBOARD. USE ALL CONCENTRIC COMPRESSION CONNECTORS.

4. GROUND ALL COMMUNICATION RACKS WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO MAIN GROUNDING BUSBAR. GROUND RACKS INDIVIDUALLY TO BUSBAR (DO NOT LOOP GROUNDS). ROUTE CONDUCTOR ALONG RACK REAR AND IN CABLE RUNWAY TO GROUNDING BUSBAR.

5. GROUND EACH CONDUIT AND CONDUIT SUPPORT STRUT WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.

6. GROUND CABLE RUNWAY WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.

7. PROVIDE UL LISTED RIGID CONDUIT THREADED MALLEABLE IRON INSULATED GROUNDING BUSHING WITH BRONZE LUG (O-Z/GEDNEY TYPE IBC-L-BC) ON END OF BACKBONE CONDUITS AND GROUND TO BUSBAR WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR. PLASTIC INSULATING BUSHING IS ALSO REQUIRED.

CER/CC GENERAL NOTES

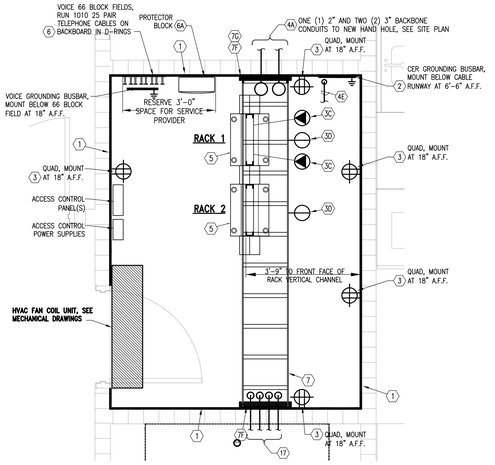
CABLE ROUTING: ROUTE CABLING IN CABLE RUNWAY. BUNDLE FIBER OPTIC, VOICE BACKBONE AND HORIZONTAL CABLING SEPARATELY. SECURE BUNDLES WITH BLACK VELCRO AT MINIMUM OF 12" ON CENTER IN CABLE RUNWAY AND AT MINIMUM OF 6" ON CENTER IN RACK VERTICAL CABLING SECTIONS. THE FINISHED INSTALLATION SHALL MEET THE APPROVAL OF THE ENGINEER FOR OVERALL QUALITY, ORGANIZATION, AND NEATNESS OF APPEARANCE. SEE SINGLE LINE CONFIGURATION DIAGRAMS FOR CABLE TYPES AND QUANTITIES.

BACKBOARD LAYOUT: BACKBOARD AND RACK ARRANGEMENT AND EQUIPMENT LOCATIONS INDICATED ARE DRAWN TO SCALE. DO NOT MODIFY LAYOUT WITHOUT PRIOR APPROVAL OF ENGINEER. USE ALL BLACK HARDWARE ON FACE OF RACKS.

CER/CC FASTENERS: ALL ATTACHMENTS MADE TO CABLE TRAY OR RACKS SHALL HAVE SCREWS, BOLTS OR ANY OTHER MOUNTING HARDWARE INSTALLED IN DIRECTION AWAY FROM ANY COMMUNICATIONS CABLING. SELF TAPPING SCREWS ARE NOT ACCEPTABLE. ALL MOUNTING SCREWS SHALL BE BLACK.

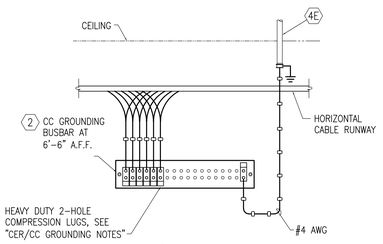
CER/CC PAINTING: TOUCH-UP PAINT ALL NICKS AND SCRATCHES ON ALL RACKS, CABLE RUNWAY, BACKBOARDS, ETC. AFTER INSTALLATION IS COMPLETE. TOUCH-UP SHALL BE DONE USING MANUFACTURER PROVIDED PAINT TO MATCH. ALL SCREWS, NUTS, AND BOLTS SHALL BE PAINTED TO MATCH HARDWARE.

CATEGORY 6 & 6A TERMINATIONS: MAKE ALL TERMINATIONS IN STRICT ACCORDANCE WITH TIA GUILDELINES AS WELL AS THE MANUFACTURER'S PRINTED INSTRUCTIONS FOR BOTH THE CABLE AND THE TERMINATION DEVICE FOR ALL FIELD CONNECTIONS IN THE "HORIZONTAL TELECOMMUNICATIONS LINK". STRIP CABLE JACKET BACK A MAXIMUM OF 1 INCH FROM THE POINT OF TERMINATION. MAINTAIN FACTORY SYMMETRICAL CABLE TWISTS TO WITHIN 0.5 INCHES (13 MM MAXIMUM) OF THE POINT OF TERMINATION. PROVIDE CABLE SLACK AT EACH END TO ALLOW MINIMUM OF FIVE (5) FUTURE RETERMINATIONS WITHOUT RE-ROUTING CABLE. SEE CO MOUNTING DETAILS, AND BACKBOARD ELEVATIONS.



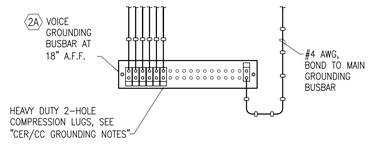
COMMUNICATIONS EQUIPMENT ROOM (CER) CER1.107 - ENLARGED FLOOR PLAN

SCALE: 1/2" =1'-0"



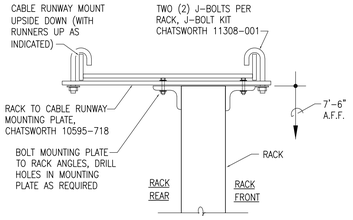
TYPICAL MAIN GROUNDING BUSBAR DETAIL

NOT TO SCALE



TYPICAL VOICE GROUNDING BUSBAR DETAIL

NOT TO SCALE

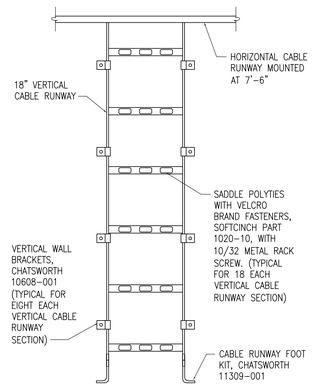


TYPICAL CABLE RUNWAY RACK SUPPORT DETAIL

NOT TO SCALE

CABLE RUNWAY MOUNTING HEIGHT NOTE

BOTTOM OF CABLE RUNWAY MUST BE MOUNTED AT EXACT HEIGHT ABOVE THE FINSHED FLOOR TO ALLOW INSTALLATION OF 7'-6" HIGH RACKS.



TYPICAL VERTICAL CABLE RUNWAY DETAIL

NOT TO SCALE

CER ENLARGED FLOOR PLAN KEY NOTES:

1. PLYWOOD BACKBOARD, 8'-0" HIGH X FULL WIDTH OF WALL AS INDICATED, MOUNT WITH BOTTOM AT 6" ABOVE FINISH FLOOR. ROUGH ALL ELECTRICAL OUTLETS AND WALL PHONE INTO SPACE BEHIND BACKBOARD FOR FLUSH MOUNT INSTALLATION OF FACEPLATES. BACKBOARDS SHALL BE 3/4" THICK AC CABINET GRADE PLYWOOD (FACE 'A' SIDE INTO ROOM) WITH FIRE RETARDANT PAINT. COUNTERSINK ALL SCREWS. FILL AND SAND SMOOTH ALL SEAMS, COUNTERSUNK SCREW HOLES AND VOIDS. PRIME WITH TWO COATS PRIMER, SANDING SMOOTH AFTER EACH COAT. FINISH WITH TWO COATS SEMI-GLOSS ENAMEL PAINT, COLOR BATTLESHIP GREY. SEE ARCHITECTURAL SPECIFICATIONS FOR PRIMER AND PAINT SPECIFICATIONS. FINAL SURFACE SHALL BE UNIFORMLY SMOOTH AND EVEN. TOUCH UP AT END OF PROJECT. COORDINATE WORK WITH ELECTRICAL CONTRACTOR TO ENSURE THAT POWER RECEPTACLES ARE PROPERLY LOCATED, POWER CONDUITS ARE RECESSED BEHIND BACKBOARD, AND FACEPLATES ARE FLUSH ON FACE OF BACKBOARD.

   SPECIAL BACKBOARD DUST CONTROL NOTE: COMPLETE ALL BACKBOARD WORK INCLUDING TWO FULL FINISH PAINT COATS PRIOR TO INSTALLATION OF RACKS AND BACKBOARD MOUNTED EQUIPMENT AND PRIOR TO PULLING CABLING INTO CER.

2. MAIN GROUNDING BUSBAR, HARGER GBI-14420G WITH TWO ROWS OF 7/16"ø HOLES AT 1" SPACING EACH WAY. MAKE ALL CONNECTIONS WITH TWO HOLE LONG BARREL COMPRESSION LUGS (HARGER GECLB4-2C FOR #4 AWG, GECLB6-2C FOR #6 AWG) AND BOND TO BUSBAR WITH TWO 3/8"ø SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS. SEE "CER GROUNDING NOTES" AND "VOICE SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".

2A. VOICE GROUNDING BUSBAR, HARGER GBI-14420G WITH TWO ROWS OF 7/16"ø HOLES AT 1" SPACING EACH WAY. MAKE ALL CONNECTIONS WITH TWO HOLE LONG BARREL COMPRESSION LUGS (HARGER GECLB4-2C FOR #4 AWG, GECLB6-2C FOR #6 AWG) AND BOND TO BUSBAR WITH TWO 3/8"ø SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS. SEE "CER GROUNDING NOTES" AND "VOICE SYSTEM SINGLE LINE CONFIGURATION DIAGRAM". BOND TO MAIN GROUNDING BUSBAR IN CER WITH #4 AWG GROUNDING CONDUCTOR.

3. BY ELECTRICAL CONTRACTOR: 120 VAC 20 AMP DOUBLE DUPLEX POWER RECEPTACLE. ROUGH-IN WALL BOX FLUSH WITH FACE OF BACKBOARD. EXTEND EMT CONDUIT FROM BOX CONCEALED BEHIND BACKBOARD, THEN RUN TO SERVING POWER PANEL. SEE ELECTRICAL DRAWINGS.

3A. BY ELECTRICAL CONTRACTOR: 120 VAC 20 AMP GFI DUPLEX POWER 'WORK' RECEPTACLE. ROUGH-IN WALL BOX FLUSH WITH FACE OF BACKBOARD. EXTEND EMT CONDUIT FROM BOX CONCEALED BEHIND BACKBOARD, THEN RUN TO SERVING POWER PANEL. SEE ELECTRICAL DRAWINGS.

3C. BY ELECTRICAL CONTRACTOR: PROVIDE L6-20R 208 VOLT 20 AMP POWER RECEPTACLE TO SERVE OFOI UPS. SEE TYPICAL POWER OUTLET MOUNTING DETAILS, SEE SHEET T4.02. SEE ELECTRICAL DRAWINGS.

3D. BY ELECTRICAL CONTRACTOR: PROVIDE 5-20R 120 VOLT 20 AMP DUPLEX POWER RECEPTACLE MOUNTED ON REAR TOP OF CABLE RUNWAY TO SERVE OFOI UPS. SEE ELECTRICAL DRAWINGS.

4. ABOVEGROUND EMT BACKBONE CONDUIT. SEE "COMMUNICATIONS FLOOR PLANS" FOR CONDUIT REQUIREMENTS AND ROUTING. SEE SINGLE LINE CONFIGURATION DIAGRAMS FOR CABLE REQUIREMENTS. TURN DOWN THRU CEILING (TRIM CEILING TILE NEATLY) AND TERMINATE AT 1" BELOW CEILING WITH PLASTIC INSULATING BUSHING PRIOR TO INSTALLING CABLING.

4A. UNDERGROUND RIGID BACKBONE CONDUIT. SEE "COMMUNICATIONS FLOOR PLANS" FOR CONDUIT REQUIREMENTS AND ROUTING. SEE SINGLE LINE CONFIGURATION DIAGRAMS FOR CABLE REQUIREMENTS. TURN UP WITH CONDUIT CENTERLINE AT 4" FROM BACKBOARD AND TIGHTLY GROUPED AT VERTICAL CABLE RUNWAY. TERMINATE AT 4" A.F.F WITH UL LISTED RIGID CONDUIT THREADED MALLEABLE IRON INSULATED GROUNDING BUSHING WITH BRONZE LUG (O-Z/GEDNEY TYPE IBC-L-BC) PRIOR TO INSTALLING CABLING AND BOND TO GROUNDING BUSBAR WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR.

4B. EMT CONDUIT SLEEVES. SEE "COMMUNICATIONS FLOOR PLANS" FOR CONDUIT REQUIREMENTS AND ROUTING. TURN DOWN THRU CEILING (TRIM CEILING TILE NEATLY) AND TERMINATE AT 1" BELOW CEILING WITH PLASTIC INSULATING BUSHING PRIOR TO INSTALLING CABLING.

4C. EMT CONDUIT SLEEVES UP INTO CEILING SPACE, SIZE AS INDICATED. STUB CONDUIT SLEEVE THRU CEILING TILE (TRIM TILE CLOSE AROUND CONDUIT) AND TERMINATE AT 1" BELOW CEILING. SECURE TOP AND BOTTOM OF EACH SLEEVE ABOVE CEILING. CONNECTORIZE EACH END OF CONDUIT AND INSTALL PLASTIC INSULATING BUSHINGS ON CONNECTORS BEFORE PULLING CABLING. LOCATE SLACK CABLE ABOVE CEILING (NOT IN CABLE RUNWAY), COIL SLACK CABLE IN NEAT ROLLS BUNDLED WITH VELCRO AND SECURED TO ROOF STRUCTURE. BOND STRUT TO GROUNDING BUSBAR.

4E. BY ELECTRICAL CONTRACTOR: EMT CONDUIT TO BUILDING MAIN ELECTRICAL PANEL FOR GROUNDING CONDUCTOR. PROVIDE WITH INSULATED GROUNDING BUSHING – MALLEABLE IRON, STEEL CITY #BG-8OZ.

5. FLOOR MOUNT EQUIPMENT RACK. REFER TO RACK ELEVATION DETAILS.

6. 66 VOICE BLOCKS – BLUE FIELDS. PROVIDE D-RINGS AT 8" ON CENTER HORIZONTAL AND VERTICAL FOR CABLE MANAGEMENT.

7. 18" WIDE CABLE RUNWAY, CHATSWORTH 10250-718, COLOR BLACK. PROVIDE BUTT-SPLICE KIT, CHATSWORTH 11301-001 TO BUTT-SPLICE SECTIONS OF CABLE RUNWAY (PAINT BEFORE INSTALLING AND TOUCH UP AFTER INSTALLATION). INSTALL ALL CABLE RUNWAY, FITTINGS, AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

7F. CABLE RUNWAY WALL ANGLE SUPPORT KIT, CHATSWORTH 11421-718.

7G. 18" WIDE CABLE RUNWAY, MOUNTED VERTICALLY FROM CONDUIT ENTRANCE IN FLOOR TO 7'-6". SEE "TYPICAL VERTICAL CABLE RUNWAY DETAIL".

17. 3/4" HOMERUN CONDUITS FOR DIRECT CONNECTIONS TO SPECIAL SERVICES. SEE "SPECIAL SERVICES NOTE". STUB CONDUITS THRU CEILING TILE (TRIM TILE CLOSE AROUND CONDUITS) AND TERMINATE AT 8" ABOVE CABLE RUNWAY.

Graphic Scale

2 1 0 2FT 4FT

SCALE: 1/2" = 1'-0"

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ISSUE	DATE
PERMIT SET	12/08/2025

DRAWN BY: KRO
CHECKED BY: JJO

FRICKER RESOURCE CENTER RENOVATION PROJECT
900 N F St, Pensacola, FL 32501-2887
GMC # APEN250016

COMMUNICATIONS CLOSET (CC) ENLARGED FLOOR PLAN

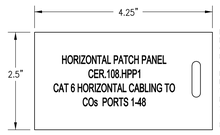
T4.01

ELECTRICAL CONTRACTOR NOTE
IN CER, RECESS ALL POWER CONDUITS AND DEVICE BOXES INTO WALLS BEHIND BACKBOARDS TO ALLOW FLUSH MOUNTING OF POWER OUTLET FACE PLATES. DO NOT SURFACE MOUNT CONDUITS ON CER BACKBOARDS.

POWER CORD NOTE: The Structured Cabling System Contractor shall provide factory made electrical power extension cords as required to extend power connections from all Owner Furnished data equipment to rack power strips. Cords shall route from equipment, up racks attached to standoff brackets as indicated on drawings, and over in cable runway to rack power strips. The Structured Cabling System Contractor shall also all provide factory made electrical power extension cords as required to extend cords from all rack power strips to a wall mount 120VAC power outlet as directed by the Owner in the field. Power extension cords shall be black, 20 amp capacity (or heavier if required by the equipment served), heavy duty insulation, length as required to make each connection, properly routed and secured at 12 inches on center, with only one cord allowed per connection, and without excess cord storage.

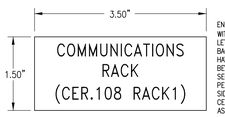
ENGRAVED PLASTIC TAG WITH 1/2" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH PERMANENT DOUBLE SIDED TAG TAPE ON ENCLOSURE COVER IN CENTER HORIZONTALLY AND 1/3 DOWN FROM TOP VERTICALLY.

TYPICAL INSTRUCTIONAL TV (TV) ENGRAVED TAG DETAIL
NOT TO SCALE



I.D. TAG WITH 0.15" HIGH BLACK LETTERS ON WHITE BACKGROUND. GBC "DOCUSEAL" LAMINATING POUCH, LUGGAGE TAG SIZE WITH LOOP (AVAILABLE FROM OFFICE SUPPLY STORES). USE LOOP TO SECURE TO PROTECTOR.

TYPICAL HORIZONTAL PATCH PANEL LAMINATED I.D. TAG DETAIL
NOT TO SCALE
SEE "COMMUNICATIONS TYPICAL LABELING DETAILS"

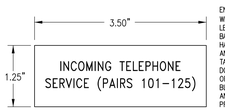


ENGRAVED PLASTIC TAG WITH 1/4" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH PERMANENT DOUBLE SIDED TAG TAPE IN CENTER OF BLANK PLATE AS INDICATED.

TYPICAL COMMUNICATIONS RACK ENGRAVED TAG DETAIL
FULL SIZE

ENGRAVED PLASTIC TAG WITH 3/16" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH PERMANENT DOUBLE SIDED TAG TAPE OFFSET FROM CENTER ON BLANK PLATE AS INDICATED AND IN TOP CENTER OF PROTECTOR BLOCK COVER.

TYPICAL VOICE BLOCK ENGRAVED TAG DETAIL
FULL SIZE (LABELING NOTE 2 SHEET TEL401)

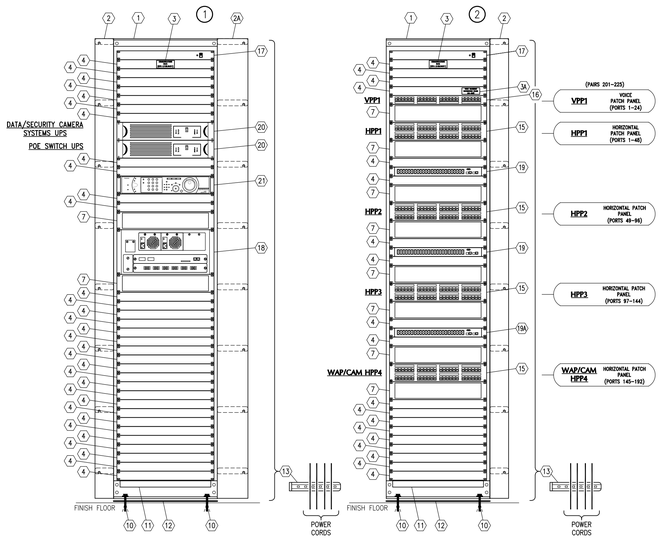


ENGRAVED PLASTIC TAG WITH 3/16" HIGH WHITE LETTERS ON BLACK BACKGROUND. TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH PERMANENT DOUBLE SIDED TAG TAPE OFFSET FROM CENTER ON BLANK PLATE AS INDICATED AND IN TOP CENTER OF PROTECTOR BLOCK COVER.

TYPICAL VOICE BLOCK ENGRAVED TAG DETAIL
FULL SIZE (LABELING NOTE 3 SHEET TEL401)

COMMUNICATIONS RACK ELEVATION KEY NOTES:

1. UNIVERSAL 7'-6" HIGH x 19" WIDE ALUMINUM FLOOR MOUNT RACK WITH UNIVERSAL 5/8", 5/8", 1/2" ALTERNATING HOLE PATTERN FRONT AND BACK, AND BLACK BAKED ENAMEL FINISH, CHATSWORTH 46353-705. PROVIDE WITH GROUND TERMINAL BLOCK, CHATSWORTH 08009-001.
2. DOUBLE SIDED VERTICAL CABLE MANAGER WITH INTEGRAL HINGED FRONT DOOR/COVER, SIZE 3.65" x 7'-0", COLOR BLACK, CHATSWORTH "CCS" 30161-703.
2A. DOUBLE SIDED VERTICAL CABLE MANAGER WITH INTEGRAL HINGED FRONT DOOR/COVER, SIZE 6" x 7'-6", COLOR BLACK, CHATSWORTH "CCS" 30162-705.
3. IDENTIFICATION TAG AT TOP OF RACK, SEE "TYPICAL COMMUNICATIONS RACK ENGRAVED TAG DETAIL".
3A. VOICE WIRING BLOCK TAG, SEE "TYPICAL VOICE WIRING BLOCK ENGRAVED TAG DETAIL".
4. ONE RACK SPACE BLANK FILLER PLATE, COLOR BLACK, CHATSWORTH 30026-701.
7. TWO RACK SPACE HINGED HORIZONTAL CABLE MANAGER ON FRONT SIDE OF RACK, PANDUIT WMPHF2E.
10. CONCRETE FLOOR RACK MOUNTING KIT, CHATSWORTH 40604-001.
11. RACK BASE DUST COVER, BLACK ENAMEL FINISH, CHATSWORTH 41050-719.
12. RACK ISOLATION KIT, CHATSWORTH 10605-019.
13. NYLON CABLE STANDOFF BRACKET, CHATSWORTH 10001-001. MOUNT ON BACK LEFT SIDE OF ALL RACKS AT 12" ON CENTER FOR ROUTING GROUNDING CONDUCTORS AND POWER EXTENSION CORDS UP AND DOWN RACKS. TYWRAP EACH CONDUCTOR AND CORD INDIVIDUALLY ON STANDOFF. (NOT SHOWN ON ELEVATIONS)
15. 48 PORT CATEGORY 6 HORIZONTAL PATCH PANEL (HPP), SEE "DATA SINGLE LINE CONFIGURATION DIAGRAM".
16. 24 PORT PRE-CONNECTORIZED VOICE BACKBONE PATCH PANEL, SEE "VOICE SINGLE LINE CONFIGURATION DIAGRAM". PROVIDE TWO PANDUIT WMBR1 CABLE BARS ON BACK OF RACK, STRAP 25 PAIR VOICE CABLES TO CABLE BARS.
17. RACKMOUNT POWER SURGE SUPRESSOR, PANAMAX "POWERMAX RACMAX" GRM0600, COLOR BLACK, PROVIDE WITH 6 AC RECEPTACLES ON BACK OF UNIT AND 12' POWER CORD.
18. OWNER FURNISHED CONTRACTOR INSTALLED (OFCI): ETHERNET CORE SWITCH. SEE "DATA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM". NOTE: WHERE EQUIPMENT FURNISHED BY OWNER VARIES IN SIZE OR QUANTITY FROM THAT INDICATED, PROVIDE BLANK FILLER PLATES TO COVER ALL UNUSED RACK SPACES.
19. OWNER FURNISHED CONTRACTOR INSTALLED (OFCI): NON-POE ETHERNET SWITCH. SEE "DATA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM". NOTE: WHERE EQUIPMENT FURNISHED BY OWNER VARIES IN SIZE OR QUANTITY FROM THAT INDICATED, PROVIDE BLANK FILLER PLATES TO COVER ALL UNUSED RACK SPACES.
19A. OWNER FURNISHED CONTRACTOR INSTALLED (OFCI): POE ETHERNET SWITCH. SEE "DATA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM". NOTE: WHERE EQUIPMENT FURNISHED BY OWNER VARIES IN SIZE OR QUANTITY FROM THAT INDICATED, PROVIDE BLANK FILLER PLATES TO COVER ALL UNUSED RACK SPACES.
20. SCSC PROVIDE: AMERICAN POWER CONVERSION UNINTERRUPTIBLE POWER SUPPLY (UPS) SUA2200RM2U (2 RACK UNITS HIGH) 2200 VA (QUANTITY TWO), RACK MOUNT AND ROUTE POWER CORDS IN RACK MOUNTED WIRE MANAGEMENT FROM POWER SOURCE RECEPTACLE TO UPS AND FROM UPS TO SERVING EQUIPMENT.
21. OWNER FURNISHED OWNER INSTALLED (OFOI): IP SECURITY SYSTEM HEADEND NETWORK VIDEO RECORDER (NVR). SEE "IP SECURITY CAMERA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".



COMMUNICATIONS RACK ELEVATIONS
SCALE: 1"= 1'-0"

GRAPHIC SCALE: 1" = 1'-0"

MAIN TV ENCLOSURE DETAIL
NOT TO SCALE

MAIN TV ENCLOSURE GENERAL NOTES:

1) MOUNT ALL COMPONENTS TO BACK OF ENCLOSURE WITH SHEET METAL SCREWS. DO NOT INSTALL WOOD BACKBOARD IN REAR OF ENCLOSURE.
2) ATTACH BACKBONE CABLES AND TV OUTLET CABLES DIRECTLY TO COMPONENTS, DO NOT SPLICE. ALL JUMPERS BETWEEN COMPONENTS WITHIN ENCLOSURE SHALL BE RG-6 COAX.
3) BOND SURGE PROTECTOR GROUNDS TO GROUNDING BUSBAR WITH NO. 10 INSULATED (GREEN) GROUNDING CONDUCTOR -- TERMINATE ENDS WITH HEAVY DUTY COMPRESSION LUGS.
4) BUNDLE CABLES NEATLY WITHIN STORAGE ENCLOSURE AND MAIN ENCLOSURE -- SECURE BUNDLES WITH BLACK VELCRO AT 4" ON CENTER. SECURE TO ENCLOSURE WITH CABLE MOUNTS AS INDICATED.

MAIN TV ENCLOSURE KEY NOTES:

1. NEMA 12 ENCLOSURE, SIZE 24" HIGH x 24" WIDE x 8" DEEP, COLOR TEXTURED LIGHT GRAY, HOFFMAN C-S2424L6 ENCLOSURE WITH HOFFMAN C-P2424 FACTORY BACKPANEL. LABEL WITH ENGAVED PLASTIC TAG, SEE TAG DETAIL.
2. DISTRIBUTION AMPLIFIER, SEE "TV SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".
3. SPLITTER, SEE "TV SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".
3A. TAPS, SEE "TV SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".
4. SURGE PROTECTORS, SEE "TV SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".
6. GROUNDING BUSBAR, HARGER GBB14216 WITH FACTORY THREADED HOLES TO SUIT BOLTS USED. BOND TO MAIN GROUNDING BUSBAR WITH NO. 6 AWG SOLID COPPER INSULATED (GREEN) GROUNDING CONDUCTOR.
7. ONE HOLE COMPRESSION LUG, SECURE TO ENCLOSURE FACTORY GROUNDING POST.
8. VELCRO CABLE MOUNTS, PANDUIT TMEH-S10-00. SECURE CABLES WITH BLACK VELCRO.

Graphic Scale
1 .5 0 1FT 2FT
SCALE: 1" = 1'-0"

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ISSUE	DATE
PERMIT SET	12/08/2025

DRAWN BY: KRC
CHECKED BY: JJO

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BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI ID # 445684
EXPIRES 03-31-26

COMMUNICATIONS RACK ELEVATIONS

T4.02