

THE CONTRACTOR SHALL RESTOP ALL PENETRATIONS OF ALL SECOND-FLOOR CONSTRUCTION AND ALL WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE, AND ALL FIRE RATED CEILING ASSEMBLIES. 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. COORDINATE FIRE RATINGS AND LOCATIONS OF WALLS AND FLOORS WITH GENERAL CONTRACTOR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A MANUFACTURER'S STANDARD DETAIL FOR EACH TYPE OF FLOOR, WALL, AND CEILING 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.

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 EQUIV. 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.

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.

SLEEVE WALL OPENING WITH SECTION OF SCHEDULE 40 PVC CONDUIT SIZED TO ACCEPT CONDUIT WITH $\pm 1/4"$ 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.

RUN ALL CABLEING 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 CABLEING INDICATED, WITHOUT DAMAGE TO CABLEING. THE ENTIRE CABLEING PLAN 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.

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, CLOSETS, CABINETS, WHITEBOARDS AND OTHER OBSTRUCTIONS. LOCATIONS OF OUTLETS IN THE CASEWORK KNEE-SPACES AND ELSEWHERE WHERE EASE OF USE IS DEPENDENT ON CLOSE COORDINATION WITH CASEWORK. 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.

- 1) ALL COs, PROTECTOR BLOCKS, VOICE BLOCKS, AND HORIZONTAL PATCH PANELS SHALL BE LABELED USING THE FINAL ROOM NUMBERS. OBTAIN FINAL ROOM NUMBERS FROM THE ARCHITECT PRIOR TO LABELING.
- 2) ALL LABELS FOR COs, PROTECTOR BLOCKS, VOICE BLOCKS, AND HORIZONTAL PATCH PANELS SHALL BE PRODUCED USING FACTORY LABEL SHEETS FOR LASER PRINTERS MANUFACTURED FOR THE SPECIFIC DEVICE.

CER: THE CER WITH ALL RELATED SPACE, BACKBOARDS, CABLE RUNWAY, ETC. ARE DEDICATED TO STRUCTURED CABLING SYSTEM COMPONENTS ONLY AND SHALL NOT BE USED IN ANY WAY BY ANY OTHER TRADE WITH THE EXCEPTION OF ELECTRICAL POWER AND HVAC WORK SPECIFICALLY ASSOCIATED WITH THAT SPACE.

The General Contractor or the Structured Cabling System Contractor shall share full responsibility for protecting all communications outlets, the CER from dust and debris during construction and until final completion of the project. The SCs shall not install racks, wire management devices, patch panels, patch cords, patch cables, patch cords, patch cables, unit ports, backboards and tie floors in the CER are completely finished and those rooms are completely isolated from dust infiltration with plastic sheathing and duct tape. All OOs jacks shall be protected by bagging and sealing dust tight at all times after connectivity devices are connected. It is recommended that the Contractor implement measures to prevent 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. It is recommended that lay-in ceiling grids in the CER be installed after conduits and cable trays and cable runways have been installed. Lay-in ceiling grids shall be installed last. Lay-in ceiling tiles, where areas should follow completion of cable dressing into racks.

SERVING CER ROOM NUMBER	120.110.A	EXAMPLE: LABEL 102.110.A INDICATES SPEAKER 'A' LOCATED IN ROOM 110 AND SERVED BY CER.120	CER	COMMUNICATING EQUIPMENT
	SPEAKER IDENTIFIER (ROOMS WITH TWO OR MORE SPEAKERS ONLY) NUMBER OF ROOM IN WHICH SPEAKER IS LOCATED.		CO	COMMUNICATING EQUIPMENT
			A.F.F.	ABOVE
			N/A	NOT IN

120.EXT.A
SPEAKER IDENTIFIER
(AREAS WITH TWO OR MORE SPEAKERS ONLY)
ZONE NAME

EXAMPLE: LABEL 120.EXT.A INDICATES SPEAKER 'A' LOCATED IN EXTERIOR ZONE AND SERVED BY CER.120

PROVIDE TWO CAT 6 CONNECTIONS (ONE VOICE/ONE DATA) TO EACH OF THE FOLLOWING SPECIAL SERVICES:

- FIRE ALARM - 108
- EMS/DDC SYSTEM - 201

COORDINATE LOCATIONS AND INTERFACE REQUIREMENTS WITH THE OWNER'S PROJECT MANAGER. HURON/CAT 6 CABLING CONTINUOUS IN 3/4" EMT CONDUIT FROM SERVING CER TO SERVICE POINT FOR EACH SYSTEM. SEE PLANS FOR LOCATIONS AND ADDITIONAL REQUIREMENTS.

MOUNTING HEIGHTS INDICATED FOR CAMERAS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL ISSUE AN RFI TO THE ARCHITECT REQUESTING EXACT LOCATIONS AND HEIGHTS FOR CAMERA MOUNTING PRIOR TO COMMENCING ROUGH-IN.

SS	COMMUNICATIONS EQUIPMENT ROOM	SS	STAINLESS STEEL	VPP	VOICE PATCH PANEL
SCD	SCHEDULE	DCD	DIRECT DIGITAL CONTROL (HMAC)		
CO	COMMUNICATIONS OUTLET	TYD	TYPICAL	EMS	ENERGY MANAGEMENT SYSTEM = DDC (HMAC)
N.A.F.C.	NOT ABOVE FINISHED FLOOR	ARCH	ARCHITECTURAL		
N.I.C.	NOT IN CONTRACT	SCS	STRUCTURED CABLEING SYSTEM	CORR	CORRIDOR
CATV	CABLE TV	SCSC	STRUCTURED CABLEING SYSTEM CONTRACTOR	EXT	EXTERIOR
HP	HORIZONTAL PATCH PANEL			AC	ABOVE COUNTER
TV	TELEVISION	OFD	OWNER FURNISHED CONTRACTOR INSTALLED	WAP	WIRELESS ACCESS POINT
PB	PULLBOX	OFD	OWNER FURNISHED CONTRACTOR INSTALLED	CM	CONSTRUCTION MANAGEMENT
HH	HAND HOLE	OFD	OWNER FURNISHED CONTRACTOR INSTALLED	PM	PROJECT MANAGER
GA	GENERAL ACCESS SYSTEM	OFD	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	GC	GENERAL CONTRACTOR
PA	PUBLIC ADDRESS SYSTEM				

WHERE THE THREE TERMS CM, DB AND GC ARE USED IN THE TEL SHEETS, THEY ARE USED INTERCHANGEABLY. THE CONTRACTOR SHALL UNDERSTAND THE TERMS TO MEAN THE CONSTRUCTION ENTITY IN OVERALL CHARGE OF THE PROJECT, WHETHER A CM, DB OR GC.

ALL MATERIALS AND EQUIPMENT INDICATED AND REQUIRED
FINISHED INSTALLATION SHALL BE NEW AND SHALL BE PRO
UNDER THIS PROJECT UNLESS SPECIFICALLY INDICATED TO

- (7) COMMUNICATIONS PULLBOX (PB), 12" x 12" x 6" NEMA TYPE 1 GALVANIZED BOX w/ SCREW COVER, SEE "GENERAL ABOVEGROUND CONDUIT NOTES".
- (8) 2" RIGID METALLIC CONDUIT (RMC) (INDOOR/OUTDOOR); SEE "GENERAL ABOVEGROUND CONDUIT NOTES".
- (9) 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 BY ELECTRICAL LOCATING EQUIPMENT) IN TRENCH PRIOR TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. SECURE FACTORY MOUNTING BASE TO WALL WITH TAPE (CARLON TL382) ALONG WITH REQUIRED CABLES. SEE "GENERAL UNDERGROUND CONDUIT NOTES".
- (10) 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 M3061) OVER ALL BURIED CONDUIT AT 6" BELOW FINISHED GRADE. INSTALL 3/8" MARKED PULL TAPES (CARLON TL382) ALONG WITH REQUIRED CABLES. SEE "GENERAL UNDERGROUND CONDUIT NOTES".
- (11) LARGE COMMUNICATIONS HANDBOOK, SEE DETAILS.
- (12) 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.
- (13) TURN SCHED 80 PVC CONDUIT UP, SLEEVE AND SEAL FLOOR PENETRATION AND TERMINATE WITH END BELL AT 4' A.F.F..
- (14) THE SCS CONTRACTOR SHALL NOTIFY THE TELEPHONE SERVICE PROVIDER/LOCAL EXCHANGE CARRIER (LEC) AND THE OWNER 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 WITHIN THE SPECIFIED TIME FRAME. THE SCS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND BACKWARD FACILITIES ARE COMPLETED IN A TIMELY MANNER SUCH THAT TELEPHONE SERVICES TO THE BUILDING ARE IN FULL OPERATION PRIOR TO OCCUPANCY OF THE BUILDING. IT IS THE RESPONSIBILITY OF THE OWNER, THE GENERAL CONTRACTOR AND ARCHITECT SHALL BE COPED ON ALL CORRESPONDENCE RELATED TO THIS WORK.
- (15) THE SCS CONTRACTOR SHALL NOTIFY THE CATV SERVICE PROVIDER AND THE OWNER (WHEN THE CATV SERVICE ENTRANCE CONDUIT AND BACKBOARD 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 SERVICES WITHIN THE SPECIFIED TIME FRAME. 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 FULL OPERATION PRIOR TO OCCUPANCY OF THE BUILDING. IT IS THE RESPONSIBILITY OF THE OWNER, THE GENERAL CONTRACTOR AND ARCHITECT SHALL BE COPED ON ALL CORRESPONDENCE RELATED TO THIS WORK.
- (16) CAP CONDUIT (GLUE ON CAP), COIL 3 FEET OF PULL TAPE INSIDE CONDUIT. MARK WITH VERTICAL Z-DIMENSION STUPED UP ABOVE GRADE. PULL PLASTIC GROUNDING. MAKE SURE CONDUIT NOT DAMAGED. SERVICE AS INDICATED.
- (17) INDOOR FIXED CEILING MOUNT WALNDAMPFOF CAMERA, LAUNCH MOUNT IN 14'-IN CEILING USING PANASONIC WV-0169 EMBEDDED CEILING MOUNT BRACKET - SUPPORT MOUNTING BRACKET FROM ROOF STRUCTURE. PROVIDE CATEGORY 6 NETWORK CONNECTION AND POE POWER. PROVIDE CATEGORY 6 CABLE FOR NETWORK CONNECTION AND POE POWER. PROVIDE CATEGORY 6 CABLE FOR NETWORK CONNECTION AND POE POWER.
- (18) INDOOR FIXED WALL MOUNT WALNDAMPFOF CAMERA WITH HEATER, SEE PLAN FOR SPECIFIC REQUIREMENTS. COORDINATE LOCATION WITH OWNER'S PROJECT MANAGER IN THE FIELD PRIOR TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. SET FACTORY MOUNTING BASE IN CONTINUOUS BEAD OF LIQUID NAILS HEAVY DUTY ADHESIVE. COORDINATE LOCATION WITH OWNER'S PROJECT MANAGER IN THE FIELD PRIOR TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. SECURE FACTORY MOUNTING BASE TO WALL WITH FOUR 1/4" STAINLESS STEEL SCREWS IN ACCORDANCE WITH "CAMERA ATTACHMENT NOTES". THIS SHEET, RUN ENT CONDUIT FROM MOUNTING BASE UP HIGH EXPOSED IN TRENCH TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. SECURE FACTORY MOUNTING BASE TO WALL WITH FOUR 1/4" STAINLESS STEEL SCREWS IN ACCORDANCE WITH "CAMERA ATTACHMENT NOTES". PROVIDE CATEGORY 6 CABLE FOR NETWORK CONNECTION AND POE POWER.
- (19) OUTDOOR FIXED SOFFIT MOUNT WALNDAMPFOF CAMERA WITH HEATER, SEE PLAN FOR SPECIFIC REQUIREMENTS. COORDINATE LOCATION WITH OWNER'S PROJECT MANAGER IN THE FIELD PRIOR TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. SECURE FACTORY MOUNTING BASE IN CONTINUOUS BEAD OF LIQUID NAILS HEAVY DUTY ADHESIVE. COORDINATE LOCATION WITH OWNER'S PROJECT MANAGER IN THE FIELD PRIOR TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. SECURE FACTORY MOUNTING BASE TO WALL WITH FOUR 1/4" STAINLESS STEEL SCREWS IN ACCORDANCE WITH "CAMERA ATTACHMENT NOTES". THIS SHEET, MAKE ALL PENETRATIONS OF WALL WATER TIGHT WITH LIFE TIME POLYURETHANE CLEAR CAULK. DRILL AND PROVIDE A CONDUIT SLEEVE THROUGH MOUNTING BRACKET AND SLEEVE TO CEILING SPACE UNDER NO OBSTACULES WILL EXPOSED IN TRENCH TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. SECURE FACTORY MOUNTING BASE TO WALL WITH FOUR 1/4" STAINLESS STEEL SCREWS IN ACCORDANCE WITH "CAMERA ATTACHMENT NOTES". PROVIDE CATEGORY 6 CABLE FOR NETWORK CONNECTION AND POE POWER.
- (20) OUTDOOR FIXED GOOSENECK WALL MOUNT WALNDAMPFOF CAMERA WITH HEATER, SEE PLAN FOR SPECIFIC REQUIREMENTS. COORDINATE LOCATION WITH OWNER'S PROJECT MANAGER IN THE FIELD PRIOR TO ROUGH-IN TO ACHIEVE BEST VIEWING ANGLES. MOUNT ON WALL USING PANASONIC PWMA45X GOOSENECK WALL MOUNT KIT. SECURE GOOSENECK MOUNT TO WALL WITH TWO 1/4" STAINLESS STEEL BOLTS. PROVIDE CATEGORY 6 NETWORK CONNECTION AND POE POWER. PROVIDE CATEGORY 6 CABLE FOR NETWORK CONNECTION AND POE POWER. PROVIDE CATEGORY 6 CABLE FOR NETWORK CONNECTION AND POE POWER.

ARCHITECT'S ROOM NUMBER

COMMUNICATIONS OUTLET (COUT), TYPE "DZ," SEE DETAILS. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET.

WIRELESS ACCESS POINT (WAP) WITH TYPE "DZ" COMMUNICATIONS OUTLET MOUNTED ON CEILING AS INDICATED. SEE WIRELESS ACCESS POINT (WAP) MOUNTING DETAIL. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET (OUT E). NOTE: OUTLET ALSO SERVES CEILING MOUNT NETWORKED PROJECTOR.

WIRELESS ACCESS POINT (WAP) WITH TYPE "DZ" COMMUNICATIONS OUTLET WALL MOUNTED AS INDICATED. SEE WIRELESS ACCESS POINT (WAP) MOUNTING DETAIL. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET (OUT S). NOTE: OUTLET ALSO SERVES CEILING MOUNT NETWORKED PROJECTOR.

SPECIAL SERVICE OUTLET (COUT), TYPE "DZ," SEE "SPECIAL SERVICE" NOTES AND PLANS. RUN CABLES CONTINUOUSLY TO SERVING CDR CONDUIT. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET.

WALL MOUNTED TELEVISION OUTLET, TYPE "TV," SEE DETAILS. LETTER INDICATES DESIGNATION OF OUTLET IN ROOMS WITH MORE THAN ONE OUTLET.

STAGE ONE-WAY SPEAKER ZONE NAME.

PA INTERFACE OUTLET, MOUNT IN HIGH VISIBILITY LOCATION.

CEILING MOUNT ONE-WAY PA SPEAKER, VALCOM V-1020C; CECING BRIDGE AND BACKBOX COMBO, VALCOM V-9916M.

WALL MOUNT TALKBACK PA SPEAKER WITH CALL BUTTON, VALCOM V-1072A-ST. FLUSH MOUNT AT 48" AFF.

OUTDOOR ONE-WAY PA SPEAKER, RECESS MOUNT HORN TYPE, VALCOM V-1080. PROVIDE WITH VANDAL RESISTANT ENCLOSURE/BACKBOX. VALCOM V-9805 AND VANDAL RESISTANT STAINLESS STEEL FACELATE, VALCOM V-9806. FLUSH MOUNT IN EXTERIOR WALL WITH TOP OF HORN HEIGHT AS DIRECTED BY ARCHITECT IN THE FIELD.

OUTDOOR ONE-WAY PA SPEAKER, SURFACE MOUNT 5 WATT MARI GRAD HORN TYPE, VALCOM V-1048M (COLOR BEIGE). MOUNT OF EXTERIOR WALL WITH TOP OF HEIGHT AS DIRECTED BY ARCHITECT IN THE FIELD. MOUNT IN COW OTM AND COW 116 HARD ANGLE FOR PROTECTION OF ROOF AND TUCKED UP AGAINST ROOF STRUCTURE FOR UNDERSEAL AGAINST VANDALISM.

OUTDOOR PAN/TILT/ZOOM CAMERA, SEE KEY NOTES AND "CCTV SECURITY CAMERA SYSTEM SINGLE LINE DIAGRAM."

INDOOR PAN/TILT/ZOOM CAMERA, SEE KEY NOTES AND "CCTV SECURITY CAMERA SYSTEM SINGLE LINE DIAGRAM."

INDOOR FIXED CAMERA, SEE KEY NOTES AND "CCTV SECURITY CAMERA SYSTEM SINGLE LINE DIAGRAM."

OUTDOOR FIXED CAMERA, SEE KEY NOTES AND "CCTV SECURITY CAMERA SYSTEM SINGLE LINE DIAGRAM."

COMMUNICATIONS PULL BOX, SIZE AS INDICATED.

COMMUNICATIONS HAND HOLE, SEE HAND HOLE DETAILS.

COMMUNICATIONS BACKBOX CONDUIT RUN ABOVEGROUND.

COMMUNICATIONS BACKBOX CONDUIT RUN UNDERGROUND.

ALL CAMERA ATTACHMENTS SHALL BE MADE UNDAUL-RESISTANT. SEE KEY NOTES THIS SHEET FOR SPECIFIC FASTENERS SPECIFICATIONS REQUIRED FOR EACH CAMERA INSTALLATION. ALL FASTENERS AND MISCELLANEOUS RELATED HARDWARE SHALL BE STAINLESS STEEL. ATTACHMENTS AT VARIOUS WALL CONSTRUCTIONS SHALL BE AS FOLLOWS:

1. AT FRAMED WALLS WITH GYP BOARD FINISH OR CMU WALLS AT BLOCK OPEN CELLS, PROVIDE STAINLESS STEEL ANCHOR BOLTS.
2. AT CMU WALLS AT BLOCK WEBS OR FOR CONCRETE WALLS, PROVIDE COMMERCIAL GRADE HIGH LOAD EXPANSION ANCHORS.
3. AT METAL FASCIAS OR SOFFIT PROVIDE ALL STAINLESS STEEL HARDWARE THRU-BOLTED ALL THE WAY THROUGH FASCIA OR SOFFIT CONSTRUCTION AT FRAMING WITH STAINLESS STEEL THRU-BOLTS, SS FENDER WASHERS, AND SS LOCKING NUTS VISIBLE AND ACCESSIBLE FROM THE BUILDING INTERIOR CEILING SPACE. PROVIDE SUPPLEMENTAL FRAMING (METAL WALL STUDS) BRIDGING BETWEEN FASCIA OR SOFFIT FRAMING AS REQUIRED.

SEAL

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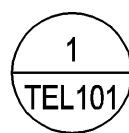
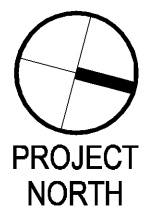
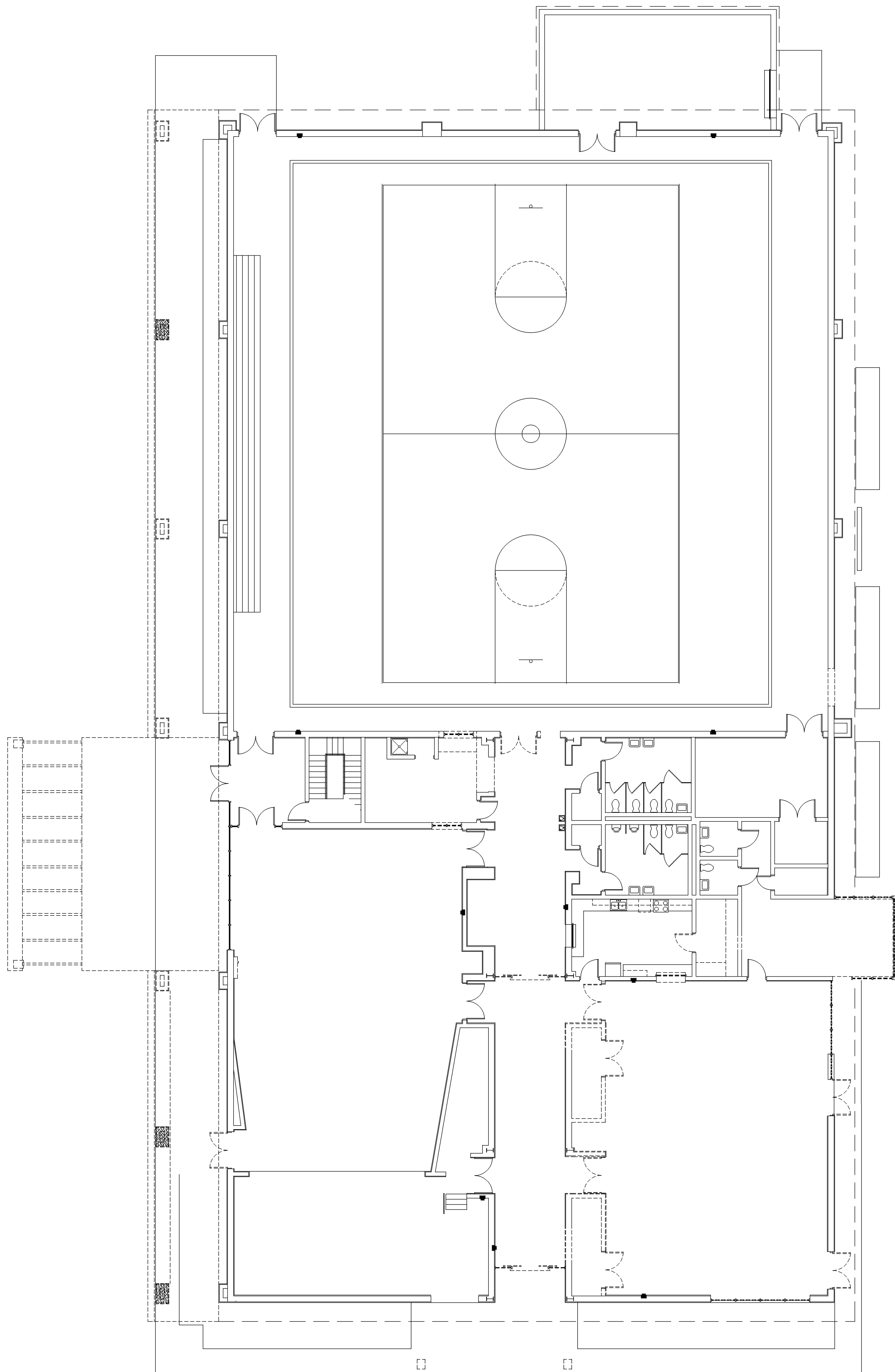
PROJECT:
Gulf Breeze Community Center
800 Paradise Drive
Gulf Breeze, FL 32561

SHEET TITLE:
COMMUNICATIONS DEMOLITION FLOOR PLAN

PROJECT NO:
FILE NO: XXXXX
DATE: 06.01.2011
REVISION:

SHEET

TEL102



COMMUNICATIONS DEMOLITION FLOOR PLAN

SCALE: 3/32" = 1'-0"

General Project Notes

PHASING NOTES:

- 1) SEE PHASING NOTES.

GENERAL DEMOLITION NOTES:

- 1) THE CONTRACTOR SHALL REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ALL ITEMS DEMOLISHED AS PART OF THIS PROJECT, UNLESS OTHERWISE INDICATED.
- 2) THE CONTRACTOR SHALL FIELD VERIFY THE FULL EXTENT OF DEMOLITION WORK REQUIRED PRIOR TO BIDS.
- 3) DEMOLISH ALL EXISTING DATA, VOICE AND TV 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. PATCH, PAINT AND OTHERWISE RESTORE AND REFINISH TO MATCH ADJACENT SURFACES ALL WALL, CEILING AND FLOOR FINISHES WHERE EXISTING SYSTEMS COMPONENTS ARE REMOVED. TURN ALL RACKS, WIRING BLOCKS, PATCH CORDS, LAN, PHONE, AND TV EQUIPMENT, WIRE MANAGERS AND ALL OTHER EXISTING MATERIALS THE OWNER ELECTS TO RETAIN OVER TO THE OWNERS PROJECT MANAGER. COORDINATE WITH OWNER'S PROJECT MANAGER PRIOR TO REMOVING ANY EXISTING MATERIALS FROM THE SITE.

GENERAL PROJECT EXECUTION NOTES:

- 1) MAINTAIN ALL EXISTING SYSTEMS IN FULL OPERATION UNTIL NEW SYSTEMS ARE IN PLACE AND FULLY OPERATIONAL 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 FULLY OPERATIONAL UNTIL CUTOVER TO NEW SYSTEM IS COMPLETE AT NO ADDITIONAL COST TO THE OWNER. CUTOVER TO NEW SYSTEMS SHALL OCCUR AT A TIME PRE-APPROVED BY THE OWNER'S PROJECT MANAGER AT NIGHT OR ON A WEEKEND WHEN THE LIBRARY IS NOT IN OPERATION.
- 2) 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.
- 3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO BUILDING COMPONENTS, EQUIPMENT, 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 AND IDENTIFY AND RECONNECT/RESTORE ALL EXISTING MISCELLANEOUS VOICE, DATA AND ITV SERVICES THROUGH THE NEW STRUCTURED CABLING SYSTEM, WHETHER THOSE SERVICES ARE SPECIFICALLY IDENTIFIED OR NOT.

COMMUNICATIONS DEMOLITION GENERAL NOTES:

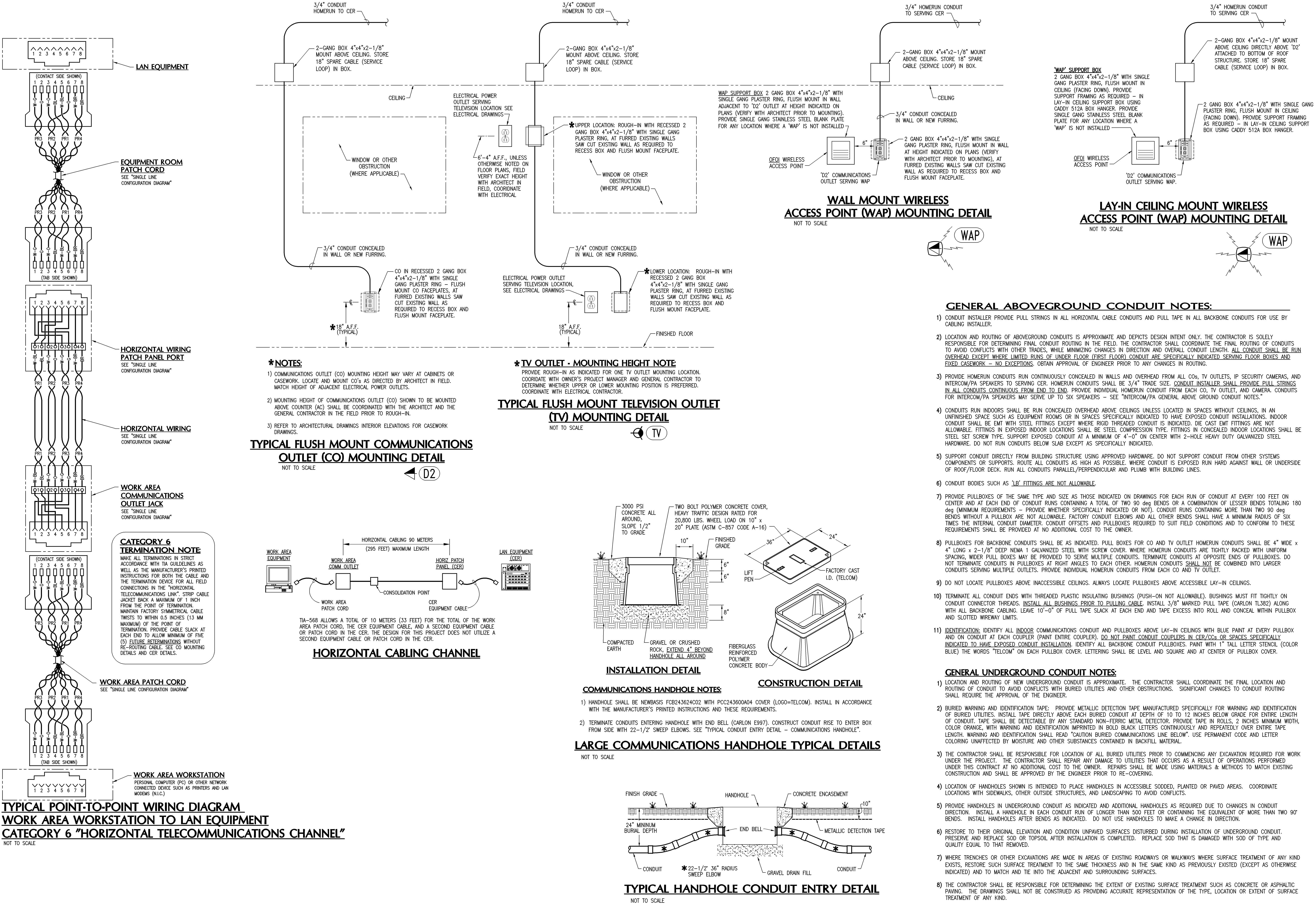
1. DEMOLISH EXISTING COMMUNICATION OUTLET. TYPICAL FOR ALL EXISTING OUTLETS BUILDING-WIDE, CONTRACTOR FIELD VERIFY QUANTITY AND LOCATION. PROVIDE DEMOLITION OF EXISTING SURFACE RACEWAY/BOX.
2. DEMOLISH EXISTING TV OUTLET. TYPICAL FOR ALL EXISTING OUTLETS BUILDING-WIDE, CONTRACTOR FIELD VERIFY QUANTITY AND LOCATION. PROVIDE DEMOLITION OF EXISTING SURFACE RACEWAY/BOX.
3. DEMOLISH EXISTING CER WITH ALL COMPONENTS, TURN ALL EQUIPMENT OVER TO THE OWNERS PROJECT MANAGER.
4. TELEPHONE SYSTEM PROVIDER WILL RELOCATE THE EXISTING TELEPHONE SYSTEM EQUIPMENT TO THE NEW CER OR REPLACE WITH NEW UNDER SEPARATE CONTRACT.
5. DEMOLISH EXISTING VOICE BACKBOARD WITH ALL COMPONENTS.
6. EXISTING DEMARC COPPER TELEPHONE SERVICE ENTRANCE BACKBOARD, DEMOLISH ALL COMPONENTS AFTER NEW COPPER ENTRANCE IS INSTALLED AND FULLY CUTOVER.



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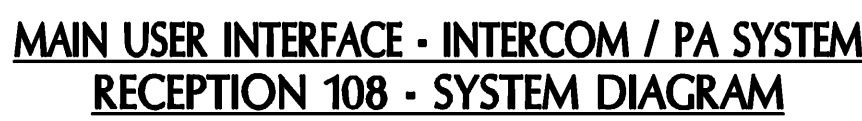
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1. PROVIDE SYSTEM COMPLETE WITH CONFIGURATION AND PROGRAMMING OF PAGING GROUPS, SYSTEM TONES AND ALL SYSTEM FEATURES AVAILABLE WITH THE HAZARD EQUIPMENT SPECIFIED. COORDINATE FINAL CONFIGURATION AND PROGRAMMING WITH THE OWNER. ADJUST ALL SPEAKER AND TALKBACK VOLUMES TO THE SATISFACTION OF THE OWNER'S PROJECT MANAGER. COORDINATE SOFTWARE PAGING GROUPS (COMBINATIONS OF HARD-WIRED PAGING GROUPS) WITH THE OWNER.
2. THE CONTRACTOR SHALL HAVE A MINIMUM OF TWO INTERCOM/PA TECHNICIANS ON STAFF WHO HAVE COMPLETED THE VALCOM "MULTIPATH" TWO DAY TECHNICAL/INSTALLATION TRAINING COURSE SUCCESSFULLY AND RECEIVED CERTIFICATION FROM THE MANUFACTURER. AT LEAST ONE OF THOSE CERTIFIED TECHNICIANS SHALL BE ON-SITE AND BE RESPONSIBLE CHARGE AT ALL TIMES DURING SYSTEM INSTALLATION, VOLUME ADJUSTMENT AND PROGRAMMING. CONFORM TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND "CLASS CONNECTION INSTALLATION MANUAL," LATEST REVISION.
3. USE SPEAKER AND ZONE IDENTIFICATION DETAILED ON DRAWINGS FOR ALL DOCUMENTATION OF SYSTEM PROGRAMMING AND CABLE TESTS.
4. COMPLETE INSTALLATION AND TESTING OF ALL WIRING PRIOR TO MAKING CONNECTIONS TO SPEAKERS. TEST CATEGORY 3 AND MULTIPLEX BACKPHONE INDEPENDENTLY IN ACCORDANCE WITH TESTING PROCEDURES IN "CLASS CONNECTION" AND DOCUMENT RESULTS. INSTALL ALL CROSS-CONNECTIONS REQUIRED TO COMPLETE END-TO-END CIRCUITS TO SPEAKERS AND CABLE BUTTONS, BUT DO NOT CONNECT TO HEADEND OR SPEAKERS. TEST EACH END-TO-END CIRCUIT FOR IMPEDANCE IN ACCORDANCE WITH "CLASS CONNECTION INSTALLATION MANUAL," LATEST REVISION. MEASURED IMPEDANCE SHALL BE EQUAL TO THE SPEAKER IMPEDANCE PLUS WIRE RESISTANCE. SPEAKER CIRCUITS MEASURING LESS THAN 20 Ohms IMPEDANCE SHALL NOT BE CONNECTED TO THE SYSTEM (PROVIDE RESISTORS AS REQUIRED). PROVIDE CABLE TEST RESULTS TO ENGINEER IN WRITING.
5. FOLLOWING SUCCESSFUL COMPLETION OF WIRE TESTS, CONNECT SPEAKERS AND DO PRELIMINARY CHECK FOR VALID SPEAKER OPERATION. DURING HANDLING AND INSTALLATION OF SPEAKERS AND HEADEND COMPONENTS, DO NOT ALTER FACTORY-PRESET VOLUME LEVELS.
6. FOLLOWING SUCCESSFUL VALIDATION OF SPEAKER OPERATION, PERFORM FINAL AND SYSTEMATIC ADJUSTMENT OF SYSTEM AND SPEAKER VOLUMES IN STRICT ACCORDANCE WITH "CLASS CONNECTION INSTRUCTIONS." ALL ADJUSTMENTS SHALL BE MADE WITH EACH SPEAKER LOCATION AT ITS NORMALLY ANTICIPATED MARCH NOISE LEVEL. SYSTEM "TALKBACK" VOLUME SHALL INCLUDE BUT NOT BE LIMITED TO ADJUSTMENT OF SYSTEM TONES, MICROPHONE VOLUME, GROUP/ALL CALL PAGE TO TALKBACK STATIONS, AUX MUSIC SOURCE DISTRIBUTION TO TALKBACK STATIONS, GROUP/ALL CALL PAGE TO EACH ONE-WAY ZONE, AUX MUSIC SOURCE DISTRIBUTION TO ONE-WAY ZONES, "PHONE TO SPEAKER" VOLUME ADJUSTMENT AT EACH TALKBACK STATION, AND "SPEAKER TO PHONE" VOLUME ADJUSTMENT AT EACH PHONE LOCATION. EACH ADJUSTMENT SHALL BE PERFORMED WITH MAINS BACKGROUND NOISE AND "CLASS CONNECTION" NECESSARY CORRECTIONS REQUIRED TO ELIMINATE BACKGROUND NOISE AND "HSS," MEASURE AND RECORD ALL SYSTEM, ZONE AND TALKBACK STATION SOUND LEVEL ADJUSTMENTS AND PROVIDE TEST COPY TO OWNER.
7. PROVIDE AND COORDINATE TIE-IN OF THE INTERCOM/PA SYSTEM TO THE TELEPHONE SYSTEM PRIOR WITH THE TELEPHONE SYSTEM PROVIDER. TIE-IN AND RELATED COORDINATION SHALL BE A JOINT EFFORT BETWEEN THE INTERCOM/PA CONTRACTOR AND THE TELEPHONE SYSTEM PROVIDER AND SHALL INCLUDE PRIOR INTERFACE TO PA SYSTEM ADMIN PORT 2, PRIOR INTERFACE TO ENGINEER WIRELESS PHONE SYSTEM LINES 1 AND 2, PROGRAMMING OF TELEPHONE SYSTEM SETS FOR PAGING ACCESS, AND DISPLAY OF INCOMING INTERCOM/PA SYSTEM CALLS ON ANY QUANTITY OF PAX TELEPHONE SYSTEM SETS IN LOCATIONS SELECTED BY OWNER.
8. ORGANIZE AND PROVIDE THREE FORMAL TRAINING SESSIONS EACH CONSISTING OF TWO HOURS OF TRAINING TO OWNER, ONE SESSION 3 DAYS BEFORE SYSTEM CUTOVER, ONE ON THE FIRST DAY FOLLOWING CUTOVER, AND ONE FOLLOWING CUTOVER AT ONE TIME SELECTED BY OWNER.
9. COMPLETE ALL WORK DESCRIBED ABOVE PRIOR TO CUTOVER TO THE NEW SYSTEM WHEN FACILITY IS UNOCCUPIED. SYSTEM SHALL BE FULLY OPERATIONAL IN EVERY RESPECT AT COMPLETION OF CUTOVER.
10. PROVIDE THE SERVICES OF A CERTIFIED PA TECHNICIAN ON-SITE FOR A FULL EIGHT HOURS ON THE FIRST DAY OF OPERATION FOLLOWING SYSTEM CUTOVER. THE CERTIFIED TECHNICIAN SHALL ASSIST OWNER STAFF IN THE PROPER OPERATION OF THE SYSTEM, ALL TROUBLE-SHOOT AND CORRECTIVE ACTIONS REQUIRED TO COMPLETE THE SYSTEM AND SHALL ADVISE THE SYSTEM PROGRAMMING TO THE SATISFACTION OF ALL WORK.
11. COORDINATE ALL WORK CLOSELY WITH THE MANUFACTURER.

2. PROVIDE A HOMERUN CONDUIT RUN CONTINUOUSLY FROM EACH SPEAKER AND SPEAKER/CALL BUTTON STATION TO SERVING CER. EACH HOMERUN CONDUIT SHALL BE 3/4" TRADE SIZE AND SHALL SERVE A MAXIMUM OF SIX ONE-WAY SPEAKERS OR TALKBACK SPEAKER/CALL BUTTON STATIONS (SIX CATEGORY 3 CABLES MAX). SPEAKERS MAY SHARE CONDUITS, BUT NOT CABLEING - ALL HORIZONTAL CATEGORY 3 CABLES ARE HOMERUNNED FROM SPEAKER TO HORIZONTAL WIRING BLOCK WITH NO INTERMEDIATE SPLICES OR CONNECTIONS. "DASTY-CHANNING" OF SPEAKER AND CALL BUTTON CABLEING IS PROHIBITED.
3. PROVIDE A HOMERUN CONDUIT RUN CONTINUOUSLY FROM THE "PA INTERFACE OUTLET" TO THE SERVING CER. EACH HOMERUN CONDUIT SHALL BE 3/4" TRADE SIZE AND SHALL SERVE ONE SUCH LINE. PROVIDE ONLY ONE.
4. CONTRACTOR SHALL COORDINATE THE FINAL ROUTING OF CONDUITS TO AVOID COLLISIONS WITH OTHER UTILITIES AND OBSTACLES, WHILE MAINTAINING CHANGES IN DIRECTION AND OVERALL CONDUIT LENGTH. THERE SHALL BE RUN OVERHEAD UNLESS OTHERWISE SPECIFICALLY INDICATED. OBTAIN APPROVAL OF ENGINEER PRIOR TO ANY UNFINISHED SPACES IN ROUTING.
5. ALL 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 EMIT WITH STEEL FITTINGS. DIE CAST EMIT 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.
6. SUPPORT CONDUIT DIRECTLY FROM BUILDING STRUCTURE USING APPROVED HARDWARE. DO NOT SUPPORT CONDUIT FROM OTHER SYSTEMS COMPONENTS OR SUPPORTS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. ROUTE ALL CONDUITS AS HIGH AS POSSIBLE, BUT DO NOT RUN CONDUITS CLOSER THAN 6" BELOW ROOF DECK (TO AVOID DAMAGE FROM LONG SCREWS USED IN FUTURE ROOF REPLACEMENTS). RUN ALL CONDUITS PARALLEL/PERPENDICULAR AND PLUMB WITH BUILDING LINES.
7. CONDUIT BODIES SUCH AS 1E FITTINGS ARE NOT ALLOWABLE.
8. PROVIDE PULLBOXES OF THE SAME TYPE AND SIZE AS THOSE INDICATED ON DRAWINGS FOR EACH RUN OF CONDUIT OF ABOUT 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). CONDUIT RUNS CONTAINING MORE THAN TWO 90 DEG BENDS WITHOUT A PULLBOX ARE ALLOWABLE. INDOOR CONDUIT ELBOWS AND ALL OTHER BENDS SHALL HAVE A MINIMUM RADIUS OF SIX TIMES THE INTERNAL CONDUIT DIAMETER. CONDUIT OFFSETS AND PULLBOXES REQUIRED TO SUEE FIED CONDITIONS AND TO CONFORM TO THESE REQUIREMENTS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
9. TERMINATE CONDUITS AT OPPOSITE ENDS OF PULLBOXES. DO NOT TERMINATE CONDUITS AT RIGHT ANGLES TO EACH OTHER EXCEPT AS SPECIFICALLY INDICATED.
10. WHERE CONDUIT AND PULLBOXES ARE LOCATED ABOVE NON-ACCESSIBLE CEILINGS OR SOFFITS (EXAMPLE PLASTER, METAL, OR GYPSUM BOARD), INSTALL AN 8" x 24" x 24" ALL ALUMINUM CEILING ACCESS DOOR IN FILING DIRECTLY BELOW EACH CONDUIT ACCESS DOORS SHALL BE LARGESX 4" Lx 24" ALL ALUMINUM CONSTRUCTION AND FASTENERS. PROVIDE ACCESS DOORS FACTORY PRIMED FUR 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.
12. IDENTIFICATION: IDENTIFY ALL INDOOR INTERCOM/PA/CONDUIT AND PULLBOXES ABOVE LAY-IN CEILINGS, EXPOSED DOORS, IN ROOF SPACE, AND IN ALL EXPOSED LOCATIONS (EXCEPT WITHIN CER) WITH YELLOW PAINT AT EVERY PULLBOX AND ON CONDUIT AT EACH COUPLER (PAINT COUPLER). DO NOT PAINT CONDUIT COUPLERS AND ENCLOSURES IN CER.

1. ALL HORIZONTAL, INTERIOR/PA CABLES SHALL BE FOUR Pairs 24 GAUGE CATHODE 3 UTP WITH YELLOW JACKETING AND SHALL HAVE RISER (CMR) JACKET (EXCEPT WHERE AERIAL GAUGE CABLES IS INDICATED AT PORTABLE BUILDINGS). MAKE ALL WIRE-TO-WIRE CONNECTIONS USING "SCOTCHLOK 211" CONNECTORS GRIMPED WITH 3M FACTORY "211" TERMINATION TOOL.
2. RUN ALL HORIZONTAL, INTERIOR/PA CABLES CONTINUOUS IN CONDUIT FROM DEVICE SERVING TO SERVING CEM. SEE CONDUIT NOTES.
3. ALL CABLES SHALL BE HOMERUNNED TO SERVING CEM AS INDICATED ON SINGLE LINE DIAGRAM. IN NO CASE SHALL CABLES BE "Daisy-CHAINED" BETWEEN MULTIPLE SPEAKERS OR ANY OTHER INTERIOR/PA DEVICE.
4. LOCATE OUTDOOR HORN SPEAKERS UP HIGH ON WALL AS HIGH AS POSSIBLE. ALWAYS MOUNT UP AND OUT OF REACH TO PREVENT VANDALISM. MAKE WALL PENETRATIONS DEEPER WITHIN INTERIOR CEILING SPACE WHEREVER POSSIBLE. SECURELY ATTACH SPEAKER BASE DIRECTLY TO WALL OR BEAM AND SET IN PLACE. SET IN PLACE "POLY-SEALANT" SEALANT AND MAKE WATERPROOF - SECURE WITH STAINLESS STEEL FASTENERS AND COMMERCIAL GAUGE EXPANSION ANCHORS (TAPCONS NOT ALLOWED). WHERE SPEAKERS MUST BE ATTACHED TO METAL FASCIA LOCATED AT FRAMING AND USE STAINLESS STEEL THRU BOLTS WITH SS WASHERS AND LOCKWASHERS. COREDRILL WALL AND/OR BEAM FOR 1/2" RIGID CONDUIT PASS THRU WALL AND/OR BEAM. USE PLASTER OR CONCRETE FILL INTO INTERIOR. MATCH 4" x 4" x 2-1/8" BACKBOX ON INSIDE OF WALL AND EXTEND 3/4" DMT CONDUIT FROM BOX TO SERVING CEM.
5. PROVIDE NEW CEILING GRID TIE BARS AND NEW CEILING TIES TO MATCH EXISTING AS REQUIRED TO INSTALL SPEAKERS IN EXISTING I-VN ACUSTICAL CEILING.
6. CEILING SPEAKER LOCATIONS ARE APPROXIMATE. COORDINATE EXACT SPEAKER LOCATIONS WITHIN CEILING GRID WITH LIGHT FIXTURES, HVAC AIR DISTRIBUTION DEVICES, FIRE ALARM DEVICES, AND ANY OTHER CEILING MOUNTED DEVICES TO AVOID CONFLICTS. PLACE AS NEAR TO LOCATION AS POSSIBLE. PROVIDE NEW METAL TALKBACK CABLES IN CLASSROOMS FOR USE OF USE BY TEACHER (TALKBACK/CALLOUT) WHILE MAINTAINING ADEQUATE SOUND DISTRIBUTION THROUGHOUT CLASSROOM SPACE.



PA INTERFACE OUTLET KEY NOTES:

- (A) SIX PORT FACEPLATE, COLOR WHITE, MOLEX
5951-00001-02, PROVIDE WITH FIVE TIA
EIA-568-B 6 PIN MODULAR JACKS WITH
INTERFACING SHIELDING HOODS, W/PA
KEY-00018--** (W/PA ** REPRESENTS
JACK COLOR). PROVIDE JACK COLORS ALL
ALMOND AND ONE BLACK.
- (B) IDENTIFIED LABEL INDICATING JACK
LABELERS AS INDICATED. TEXT SHALL BE
MINIMUM 10 POINT ARROW FONT.
- (C) LPRINTED LABEL INDICATING SERVING
CER/CC/CP. TEXT SHALL BE MINIMUM 12
POINT ARROW FONT.
- (D) SNAP--IN BLANK TAP, COLOR WHITE (NO
SYMBOLS OR TEXT).

3M SKOTCHLOCK 211 CONNECTOR NOTE: MAKE ALL '211' TERMINATIONS USING ONLY 3M FACTORY '211' TERMINATION TOOLS.

BICS
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PROJECT:
Gulf Breeze Community Center
800 Paradise Drive
Gulf Breeze, FL 32561

SHEET TITLE:
COMMUNICATIONS TYPICAL LABELING DETAILS

PROJECT NO:
FILE NO:
DATE: 06.01.2011
REVISION:

SHEET

TEL203

CATEGORY 6 HORIZONTAL TELECOMMUNICATIONS CHANNEL LABELING REQUIREMENTS (TYPICAL FOR ALL COs)

- 1) TERMINATE CATEGORY 6 HORIZONTAL CABLEING ON HORIZONTAL PATCH PANELS IN NUMERICAL ORDER BY ROOM NUMBER. REFER TO FLOOR PLANS AND "COMMUNICATIONS OUTLET (CO) SCHEDULE" FOR ROOM NUMBER AND LOCATION. TERMINATE JACKS FOR EACH "CO" SEQUENTIALLY IN NUMERICAL ORDER OF "CO" JACKS. WHERE A ROOM HAS MORE THAN ONE "CO" GROUP SEQUENTIALLY IN ORDER OF ALPHABETICAL OUTLET IDENTIFIER (A - B - C - D - ETC.).
- 2) PROVIDE FACTORY PAPER-IN-PLASTIC LABEL FOR EACH ROW, WITH PRINTED VERTICAL SUBDIVISIONS THAT PHYSICALLY MATCH LIMITS OF MODULAR JACKS WHEN INSTALLED IN PATCH PANELS.
- 3) IDENTIFY EACH HORIZONTAL PATCH PANEL MODULAR JACK AS INDICATED. TEXT SHALL BE GENERATED ON LASER PRINTER AND SHALL BE MINIMUM 10.5 POINT ARIAL NARROW FONT BOLD (ENGINEER WILL PROVIDE FONT). WHERE CONNECTIONS ARE NOT USED (AT ENDS OF PARTIALLY POPULATED PATCH PANELS), LEAVE LABELS BLANK FOR FUTURE EXPANSION.
- 4) 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".

HORIZONTAL PATCH PANEL LABELING NOMENCLATURE

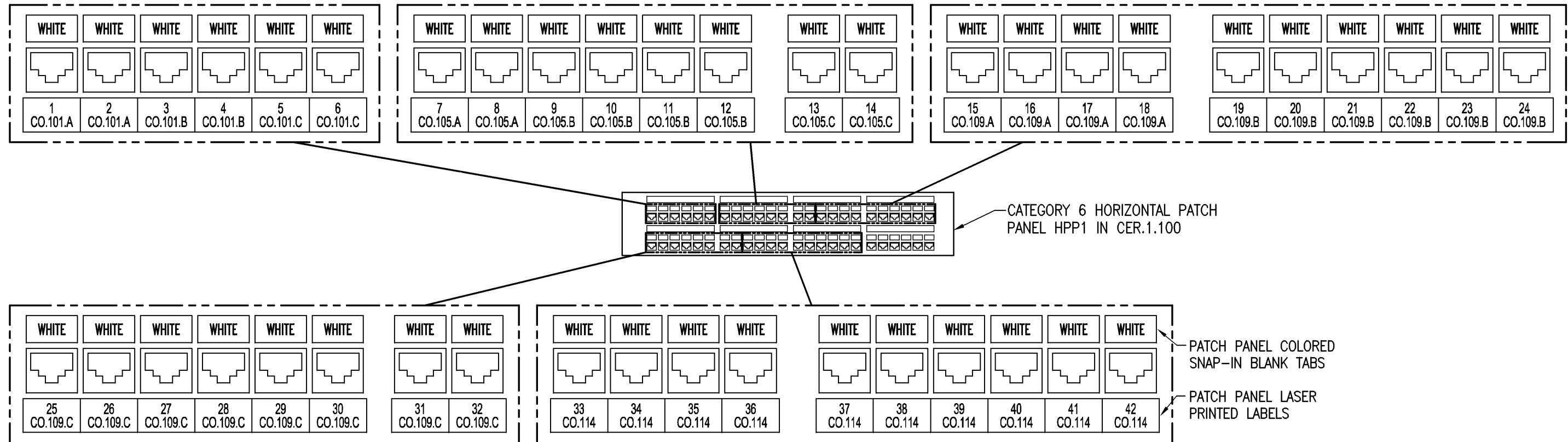
HORIZONTAL PATCH PANEL CONSECUTIVE PORT NUMBER (1-n)
ROOM NUMBER IN WHICH "CO" IS LOCATED
OUTLET IDENTIFIER (ROOMS WITH TWO OR MORE OUTLETS ONLY)
CO.105.A
CO.105.B
CO.105.C

HORIZONTAL PATCH PANEL I.D. NOMENCLATURE

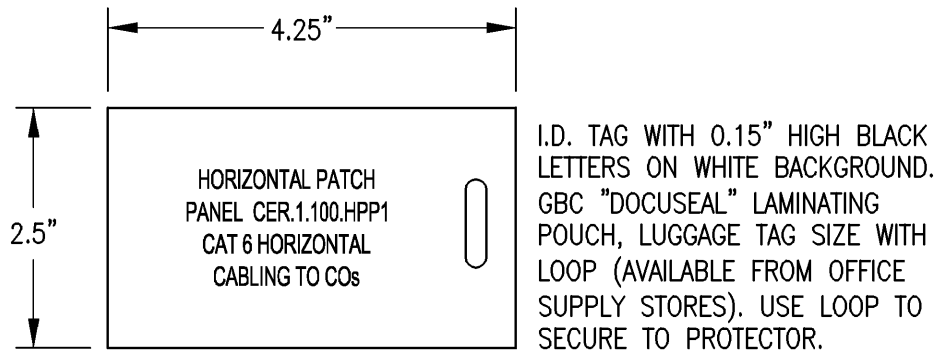
CER.1.100.HPP1
HORIZONTAL PATCH PANEL IDENTIFIER
CER NUMBER
CER.1.100.HPP1 INDICATES THE FIRST HORIZONTAL PATCH PANEL IN CER.1.100 (NUMBER PATCH PANELS TOP TO BOTTOM AND LEFT TO RIGHT)

CO IDENTIFICATION NOMENCLATURE

CO.105.A
ROOM NUMBER IN WHICH "CO" IS LOCATED
OUTLET IDENTIFIER (ROOMS WITH TWO OR MORE OUTLETS ONLY)
CER.1.100
SERVING CER
100.105.A INDICATES COMMUNICATIONS OUTLET 'A' LOCATED IN ROOM 105 AND SERVED BY CER.1.100

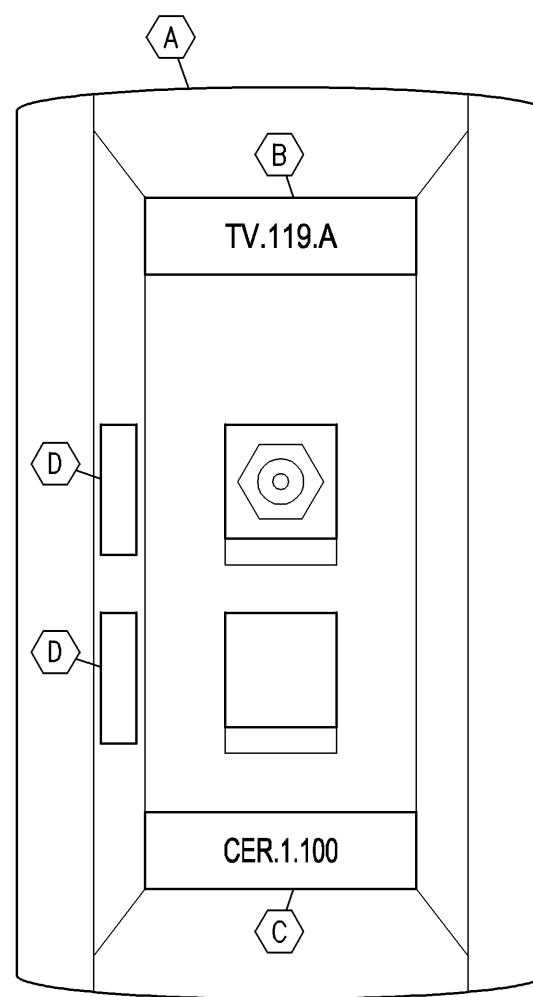


SAMPLE LABELING - HORIZONTAL PATCH PANEL HPP1



TYPICAL HORIZONTAL PATCH PANEL LAMINATED I.D. TAG DETAIL
NOT TO SCALE

PROTOTYPICAL LABELING NOTE
LABELING INDICATED IS PROTOTYPICAL AND INTENDED TO ILLUSTRATE IDENTIFICATION METHODOLOGY FOR ANY PROJECT. ROOM NUMBERS, OUTLET TYPES AND OUTLETS QUANTITIES INDICATED HAVE NO DIRECT RELATIONSHIP TO THIS PROJECT.



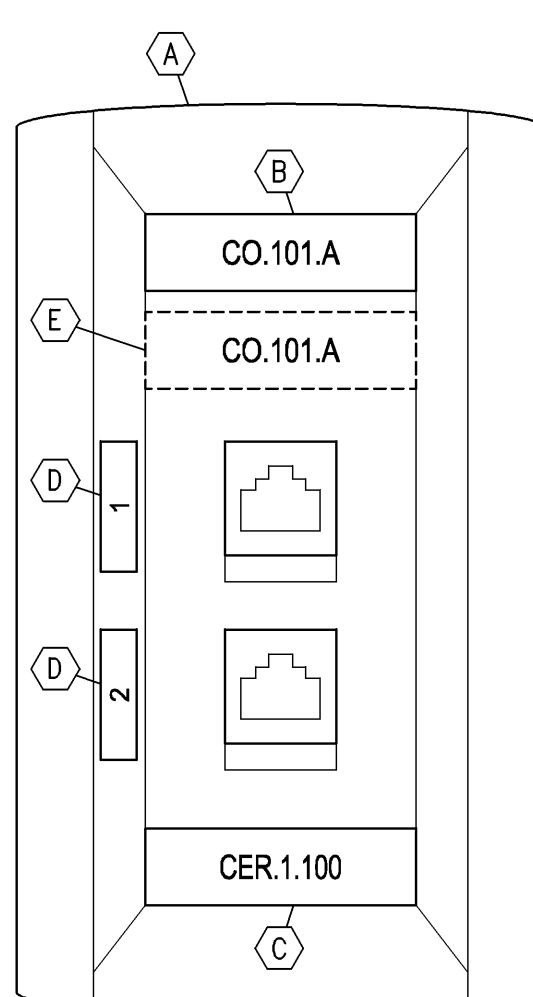
TYPE "TV" TELEVISION OUTLET (TV)

NOT TO SCALE



TYPE "TV" CO KEY NOTES:

- A TWO PORT NON-ANGLED FACEPLATE, COLOR WHITE, MOLEX WSY-00018-02. PROVIDE WITH ONE SINGLE F VIDEO, MOLEX WSY-00002-04 AND WITH ONE SINGLE BLANK, MOLEX KSI-00005-02.
- 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 CER/CC. TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.
- D SNAP-IN BLANK TAB, COLOR WHITE (NO SYMBOL, NO TEXT).



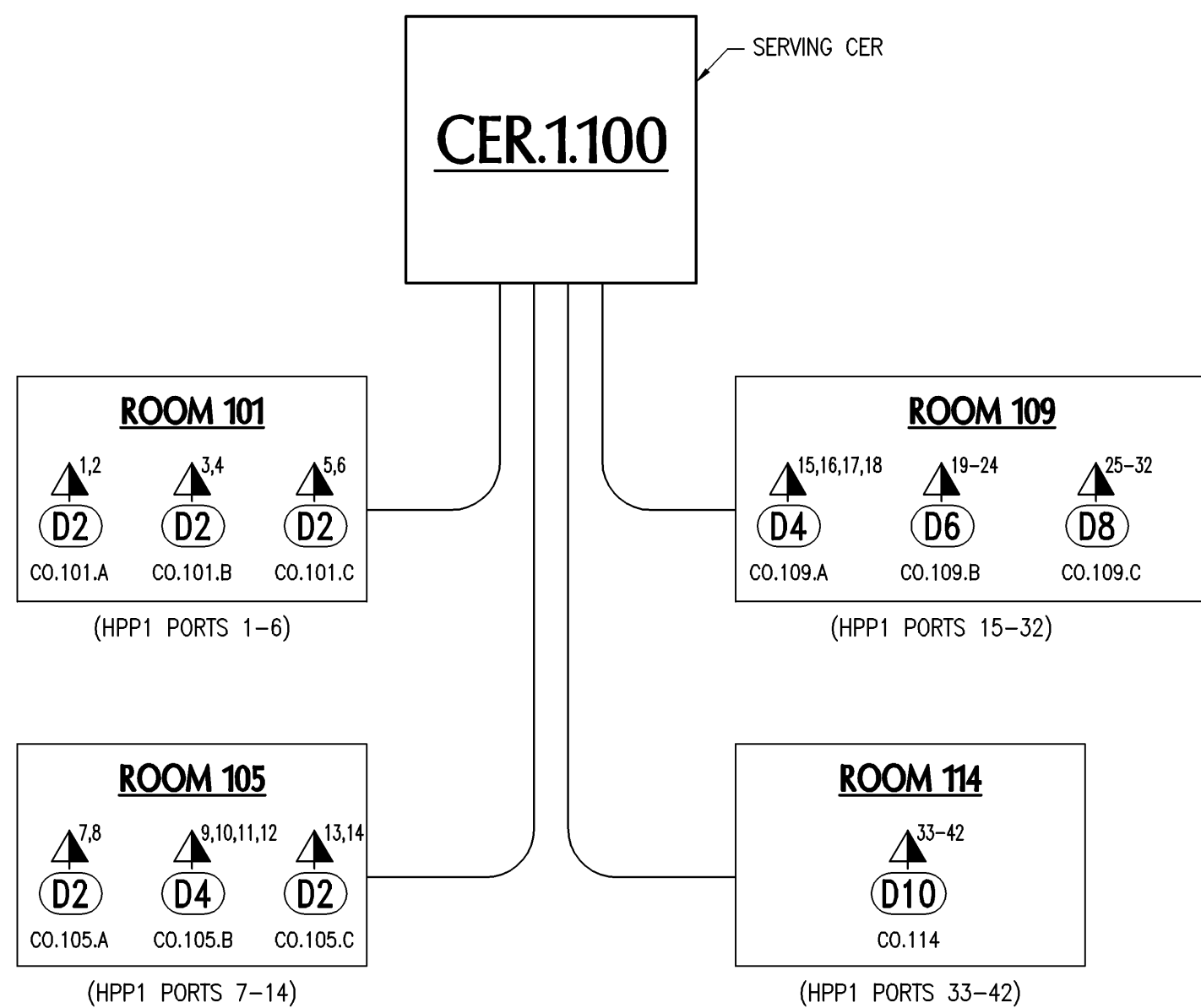
TYPE "D2" COMMUNICATIONS OUTLET (CO)

NOT TO SCALE

(D2 = TWO DATA/VOICE) D2

TYPE "D2" CO KEY NOTES:

- A TWO PORT ANGLED FACEPLATE, COLOR WHITE, MOLEX WSY-00006-02. PROVIDE WITH TWO TIA CATEGORY 6 8-PIN MODULAR ANGLED JACKS WITH INTEGRAL SPRING SHUTTER DOORS, MOLEX KSJ-00018-02.
- 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 CER/CC. TEXT SHALL BE MINIMUM 12 POINT ARIAL NARROW FONT.
- D SNAP-IN BLANK TAB, COLOR WHITE, WITH FACTORY SILKSCREEN NUMBER (1-n) CORRESPONDING TO HORIZONTAL PATCH PANEL CONSECUTIVE PORT NUMBER (1-n) IN SERVING CER/CC.
- E ADHESIVE LABEL (BROTHER P-TOUCH), MOUNT TO INSIDE OF FACEPLATE.



PROTOTYPICAL LABELING GUIDE COMMUNICATIONS OUTLETS

NOT TO SCALE

RACEWAY, FACEPLATE AND DEVICE COLOR NOTE

VERIFY ALL FACEPLATE AND DEVICE COLORS WITH THE ARCHITECT AND THE 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.

PROTOTYPICAL LABELING NOTE

LABELING INDICATED ON THIS SHEET IS PROTOTYPICAL AND INTENDED TO ILLUSTRATE IDENTIFICATION METHODOLOGY FOR ANY PROJECT. ROOM NUMBERS, OUTLET TYPES AND OUTLETS QUANTITIES INDICATED HAVE NO DIRECT RELATIONSHIP TO THIS PROJECT.

FACEPLATE INSTALLATION NOTE:

ADD SMALL SS FLAT WASHER TO BOTH PLATE SCREWS TO PREVENT OVER-TIGHTENING.

GENERAL LABELING NOTE

- 1) ALL COs, PROTECTOR BLOCKS, VOICE BLOCKS, AND HORIZONTAL PATCH PANELS SHALL BE LABELED USING THE FINAL ROOM NUMBERS, OUTLET FINAL ROOM NUMBERS FROM THE ARCHITECT PRIOR TO LABELING.
- 2) ALL LABELS FOR COs, PROTECTOR BLOCKS, VOICE BLOCKS, AND HORIZONTAL PATCH PANELS SHALL BE PRODUCED USING FACTORY LABEL SHEETS FOR LASER PRINTERS MANUFACTURED FOR THE SPECIFIC DEVICE.

GENERAL TEXT WIDTH NOTE

- 1) USE ARIAL NARROW FONT, WHICH IS VERY COMPRESSED BY WIDTH. IF ADDITIONAL WIDTH COMPRESSION IS REQUIRED FOR UNUSUALLY LONG LABELS, USE THE MS WORD FORMAT-FONT-CHARACTER SPACING-SPACING-CONDENSED-BY X POINTS (USE POINT REDUCTIONS OF LESS THAN ONE IN TENTHS OF A POINT - USE NO MORE REDUCTION THAN REQUIRED TO FIT LABEL).
- 2) LABELING TEMPLATES IN MS WORD ARE AVAILABLE FROM THE ENGINEER.

CO IDENTIFICATION NOMENCLATURE

CO.109.A
ROOM NUMBER IN WHICH "CO" IS LOCATED
OUTLET IDENTIFIER (ROOMS WITH TWO OR MORE OUTLETS ONLY)
CER.1.100E
SERVING CER
102.A INDICATES "CO" OUTLET 'A' LOCATED IN ROOM 107 AND SERVED BY CER.1.100E

TV IDENTIFICATION NOMENCLATURE

TV.119.A
ROOM NUMBER IN WHICH "TV" IS LOCATED
OUTLET IDENTIFIER (ROOMS WITH TWO OR MORE OUTLETS ONLY)
CER.1.100E
SERVING CER
119.A INDICATES "TV" OUTLET 'A' LOCATED IN ROOM 119 AND SERVED BY CER.1.100E



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- | | | | |
|----|---|----|--|
| 1 | THE SCSS CONTRACTOR SHALL NOTIFY THE TELEPHONE SERVICE PROVIDER/LOCAL EXCHANGE CARRIER (LEC) AND THE OWNER (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 CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE TELEPHONE SERVICE ENTRANCE AND BACKBOARD FACILITIES ARE COMPLETED IN A TIMELY MANNER SUCH THAT TELEPHONE SERVICE 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 | HALF MODULE GREEN BACKBOARD WITH FOUR 890 BRACKETS, RELTEC R183A3. 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 BLOCKS "CUST 1" AND "CUST 2" WITH GREEN COVER, SIEMON MC4M-7, "D1" WITH CLEAR COVER, SIEMON MC4. SEE "VOICE LABELING NOTES". |
| 1A | ORANGE BACKBOARD, RELTEC R183C6, WITH TWO 890 BRACKETS. CONTRACTOR PROVIDE BACKBOARD AND BRACKET FOR MOUNTING OF DEMARC BLOCKS BY LEC. COORDINATION INSTALLATION WITH LEC AND FIELD VERIFY THAT LEC INSTALLS DEMARC BLOCKS ON ORANGE BACKBOARD. | 9A | HALF MODULE BLUE BACKBOARD WITH EIGHT 890 BRACKETS, RELTEC R183A1. PROVIDE EIGHT CATEGORY 5 66 BLOCKS, SIEMON S66M1-50. PROVIDE EACH BLOCK WITH TWO ORGANIZER RINGS FOR ROUTING CROSS-CONNECTS, SIEMON S606P. PROVIDE EACH BLOCK WITH BLUE COVER, SIEMON MC4M-6. SEE "VOICE LABELING NOTES". |
| 2 | SYSTEM CROSS-CONNECTS, 24 AWG SOLID COPPER CONDUCTORS, COLOR BLUE/WHITE. COORDINATE WITH TELEPHONE SYSTEM PROVIDER. | 10 | FULL WHITE BACKBOARD, RELTEC R187B1. |
| 3 | PRIMARY PROTECTOR, AVAYA 489AC1-150 110 STYLE 50 PAIR PROTECTOR BLOCK WITH 110 BLOCK INPUT AND 110 BLOCK OUTPUT. PROVIDE WITH 50 SOLID STATE PROTECTOR UNITS, AVAYA 4C15. SEE "VOICE LABELING NOTES". | 12 | EQUIPMENT ROOM VOICE PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-5e (MINIMUM) FOUR PAIR 100-OMH UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 GADE STRANDED COPPER CONDUCTORS, COLOR GREY. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, MOLEX PCD-0017Y-0E (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. |
| 4 | PHONE SYSTEM PROVIDED BY OTHERS (TELEPHONE SYSTEM PROVIDER) UNDER SEPARATE CONTRACT (N.I.C.). | 13 | SOLID COPPER INSULATED GROUNDING CONDUCTOR, #6 AWG. FOR GROUNDING AT CER AND CC, BOND TO BACKBOARD MOUNTED MAIN GROUNDING BUSBAR. |
| 6 | ESSEX OR GENERAL CABLE 1010 25 PAIR CATEGORY 3 TELEPHONE CABLE, QMR JACKET, CUSTOM LENGTH, FIELD CONNECTORIZE AT PRE-WIRED 66 BLOCK (DEMARC) END WITH 50-PIN TELCO CONNECTOR WITH GOLD PLATED CONTACTS, STANDARD TELCO PINOUT, GENERATOR TO SUIT BLOCK CONNECTOR WITH PUNCH ONE END DOWN ON PROTECTOR BLOCK BOTTOM (INPUT) BLOCK. | 15 | TIA CATEGORY 6 HORIZONTAL PATCH PANEL, 48 PORT, TIA 568A PINOUT, MOLEX POWERCAT 6 PID-00147. PROVIDE WITH FACTORY PLASTIC LABEL HOLDERS, DESIGNATION LABELS, REAR CABLE MANAGERS, AND MOUNTING HARDWARE. PROVIDE COLORED SNAP-IN FLANK BAK (MOLEX CSP-00211-XX) FOR EACH MODULAR JACK, COLOR TO MATCH CORRESPONDING JACK IN COMMUNICATIONS OUTLET (CO). |
| 6A | ESSEX OR GENERAL CABLE 1010 25 PAIR CATEGORY 3 TELEPHONE CABLE, QMR JACKET, CUSTOM LENGTH, PUNCH ONE END DOWN ON PROTECTOR BLOCK UPPER (OUTPUT) 110 BLOCK. PUNCH OTHER END DOWN ON 66 BLOCK. | 16 | TIA CATEGORY 6 HORIZONTAL CABLEING, 4 PAIR UTP, 23 GADE SOLID COPPER CONDUCTORS. MAXIMUM INSTALLED LENGTH 90 METERS (295'). PROVIDE DOCUMENTATION OF CURRENT UL CERTIFICATION WITH SUBMITTALS. PROVIDE WITH QMR (RISER) JACKET, COLOR GREY. SEE SCHEDULE THIS SHEET FOR APPROVED CABLES. |
| 6B | ESSEX OR GENERAL CABLE 1010 25 PAIR CATEGORY 3 TELEPHONE CABLE, QMR JACKET, CUSTOM LENGTH, PUNCH ONE END DOWN ON 66 BLOCK. TERMINATE OTHER END AT PHONE SYSTEM AS DIRECTED BY TELEPHONE SYSTEM PROVIDER. | 17 | TYPE "D2" COMMUNICATIONS OUTLET (CO) WITH TWO (2) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS. |
| 6C | ESSEX OR GENERAL CABLE 1010 25 PAIR CATEGORY 3 TELEPHONE CABLE, QMR 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, GENERATOR TO SUIT BLOCK CONNECTOR. | 20 | HEAVY DUTY COMMERCIAL GRADE SILVER SATIN TELEPHONE LINE CORDS TOTAL OF TWENTY (20). SCSS PROVIDE LENGTHS TO TELEPHONE LOCATIONS WITH MINIMAL EXCESS CORD LENGTH. COORDINATE INSTALLATION WITH TELEPHONE SYSTEM PROVIDER TURN UNUSED LINE CORDS OVER TO OWNER'S PROJECT MANAGER. |
| 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 VP2438ZV25. PROVIDE WITH 24 FACTORY TELEPHONE ICON TABS, COLOR WHITE. LABELS TO BE PROVIDED BY THE USER. | 21 | BY TELEPHONE SYSTEM PROVIDER (N.I.C.): TELEPHONE SYSTEMS. CONTRACTOR PROVIDE ALL PATCHING IN BACKS AND ASSIST TELEPHONE SYSTEM PROVIDER IN PLACING SETS AND PROFESSIONALLY INSTALLING LINE CORDS. |

VOICE LABELING NOTES:

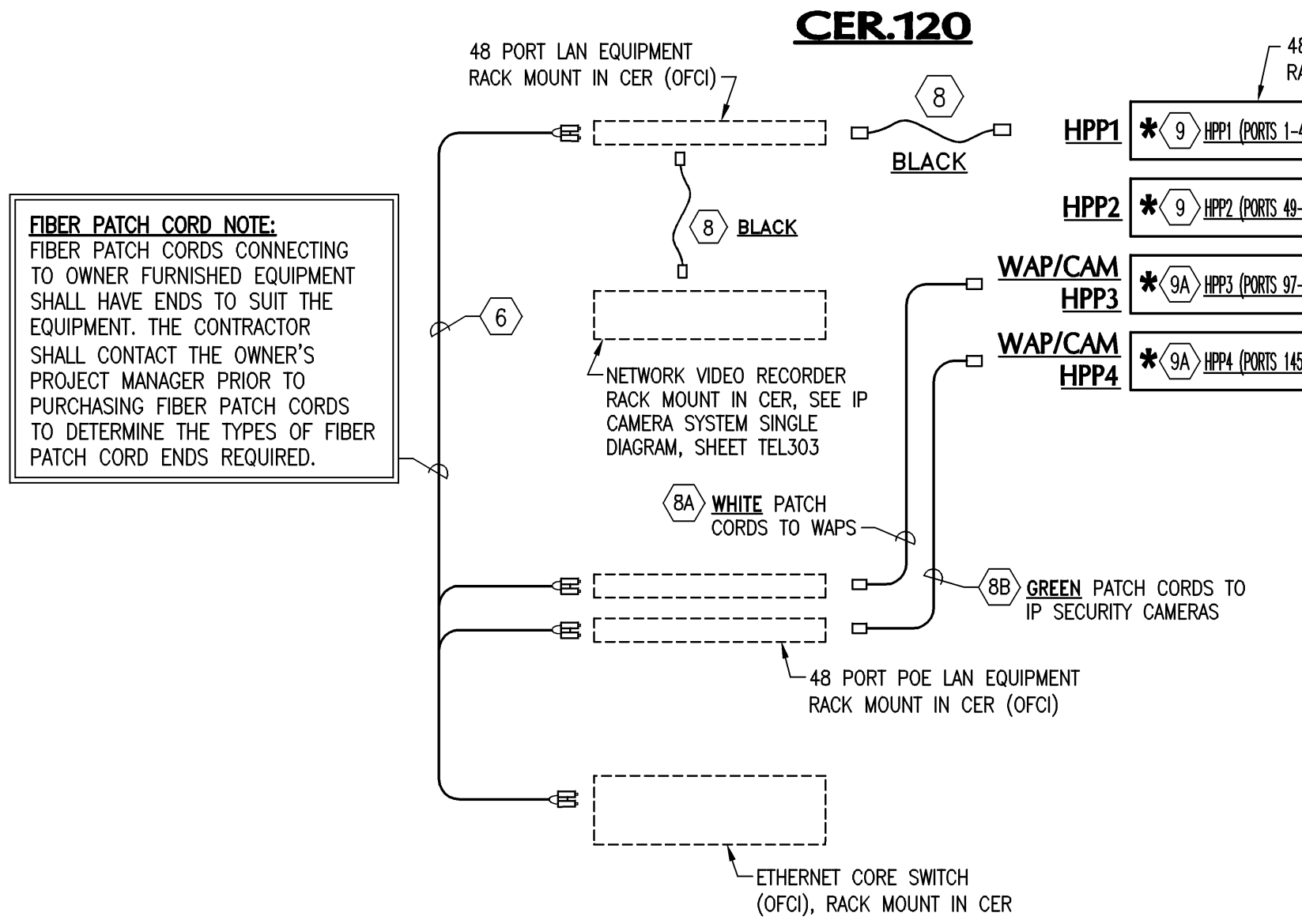
- 1) CONTRACTOR PROVIDE ANNOTATED AD30E PDF FILES OF AS-BUILT DRAWINGS, ALL "T" SHEETS, PROVIDED IN 3" BOARD 1/2 SIZE HARD COPY PLOTS AND 3 CD'S WITH PDF FILES, STORE IN DOCUMENTATION SHELF IN CDR
- 2) PROVIDE ENGRAVED PLASTIC TAG WITH DOUBLE SIDED TAG, WHITE WITH 3/16" HIGH BLACK LETTERS "TELEPHONE SERVICE PROVIDER DEMARC", SECURE TO BACKBOARD WITH SS SCREWS, SEE BACKBOARD ELAVATIONS.
- 3) PROVIDE FACTORY ROW LABELS (GREEN) WHICH DESIGNATE PAIR COUNTS IN 5 PAIR INCREMENTS (FACTORY LABEL 1-5, 6-10, 11-15 AND SO ON) THRU 21-25, 46-50 OR 96-100 (AS APPLICABLE). PROVIDE ENGRAVED PLASTIC TAG MOUNTED ON PROTECTOR BLOCK FRONT SIDE. TAG SHALL INDICATE "INCOMING TELEPHONE SERVICE" AND CABLE PAIR COUNTS, FOR TAG FABRICATION, SEE "TYPICAL VOICE BLOCK ENGRAVED TAG DETAIL". FOR PAIR COUNTS SEE THIS SHEET.
- 4) PROVIDE ENGRAVED PLASTIC TAG WITH DOUBLE SIDED TAG, WHITE WITH 1/8" HIGH BLACK LETTERS "SECURE TO 86 BLOCK HINGED COVER, LABEL EACH BLOCK AS INDICATED ON SINGLE LINE DIAGRAM (EXAMPLE "CUSTOMER PROVIDE SEMON M4-18-25" ADHESIVE BACKED LABEL ON INSIDE OF COVER - TYPE BEFORE INSTALLING WITH FOLLOWING TAG:

CUST 1	=	CUSTOMER SIDE OF INCOMING TELEPHONE SERVICE PAIRS 101-125
CUST 2	=	RESERVED FOR EXPANSION
DIRECT 1	=	DIRECT CO LINE CONNECTION BLOCKS
SPARE	=	SPARE
B1	=	BACKBONE BLOCK PAIRS 201-250
B2	=	BACKBONE BLOCK PAIRS 251-300 AND SO ON
- 8) PATCH PANEL IS FACTORY NUMBERED PORTS 1-48. PROVIDE ENGRAVED PLASTIC TAG MOUNTED ON RACK BLANK ABOVE BLOCK. TAG SHALL INDICATE "VOICE BACKBONE DISTRIBUTION" IN CER AND "VOICE BACKBONE DISTRIBUTION FROM CER" IN CC3 (IF IT ALONGS WITH CABLE PAIR COUNTS AND PORT NUMBERS, FOR INSTALLATION DETAILS SEE RACK ELAVATIONS, FOR TAG FABRICATION, SEE "TYPICAL VOICE BLOCK ENGRAVED TAG DETAIL". FOR PAIR COUNTS SEE THIS SHEET.
- 11) SEE "CATEGORY 6 HORIZONTAL TELECOMMUNICATIONS CHANNEL LABELING REQUIREMENTS" FOR LABELING OF HORIZONTAL PATCH PANELS.

DATA SYSTEM SINGLE LINE KEY NOTES

- FIBER OPTIC PATCH CORD, DUPLEX FIBER, 50/125 OM3 MULTIMODE, DUAL "SC" CONNECTORS EACH END, MOLEX, COLOR AQUA. PROVIDE QUANTITIES AND LENGTHS AS SCHEDULED THIS SHEET. FOR FIBER PATCH CORDS CONNECTING OWNER FURNISHED EQUIPMENT, PROVIDE "SC"X OTHER END AS REQUIRED TO SUIT EQUIPMENT. VERIFY END CONNECTORS REQUIRED PRIOR TO PURCHASING, SEE "FIBER PATCH CORD NOTE THIS SHEET".
- EQUIPMENT ROOM DATA PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6 (MINIMUM) FOUR PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, **COLOR BLACK** WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, MOLEX PCD-0020x-BK (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 CATEGORY-6 REQUIREMENTS AT SUBMITTAL.
- WIRELESS ACCESS POINT (WAP) PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6 (MINIMUM) FOUR PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, **COLOR WHITE** WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, MOLEX PCD-0020x-OW (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 CATEGORY-6 REQUIREMENTS AT SUBMITTAL.
- IP SECURITY CAMERA PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6 (MINIMUM) FOUR PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 GAGE STRANDED COPPER CONDUCTORS, **COLOR GREEN** WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, MOLEX PCD-0020x-OJ (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 CATEGORY-6 REQUIREMENTS AT SUBMITTAL.
- TIA CATEGORY 6 HORIZONTAL PATCH PANEL, 48 PORT, TIA 568A PINOUT, MOLEX POWERCAT 6 PID-00147. PROVIDE WITH FACTORY PLASTIC LABEL HOLDERS, DESIGNATION LABELS, REAR CABLE MANAGERS, AND MOUNTING HARDWARE. PROVIDE COLORED SNAP-IN BLANK TAB (MOLEX CSP-00021-XX) FOR EACH MODULAR JACK, COLOR TO MATCH CORRESPONDING JACK IN COMMUNICATIONS OUTLET (CO).
- TIA CATEGORY 6 WAP/CAM HORIZONTAL PATCH PANEL, 48 PORT, TIA 568A PINOUT, MOLEX POWERCAT 6 PID-00147. PROVIDE WITH FACTORY PLASTIC LABEL HOLDERS, DESIGNATION LABELS, REAR CABLE MANAGERS, AND MOUNTING HARDWARE. PROVIDE COLORED SNAP-IN BLANK TAB (MOLEX CSP-00021-XX) FOR EACH MODULAR JACK, COLOR TO MATCH CORRESPONDING JACK IN COMMUNICATIONS OUTLET (CO).
- 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.
- TYPE "D2" COMMUNICATIONS OUTLET (CO) WITH TWO (2) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS.
- TYPE "WAP" COMMUNICATIONS OUTLET (CO) WITH TWO (2) CATEGORY 6 8-PIN MODULAR JACKS. SEE PLANS AND DETAILS. PROVIDE "WAP" CO, "WAP" PATCH PANEL AND EIGHT "WAP" PATCH CORDS UNDER BASE BID FOR THREE "WAP" LOCATIONS WHERE INDICATED ON PLAN.
- WORKSTATION PATCH CORDS, FACTORY TERMINATED AND TESTED CATEGORY-6 (MINIMUM) FOUR PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 23 GAGE STRANDED COPPER CONDUCTORS, **COLOR BLACK** WITH MATCHING FACTORY BOOT EACH END. PROVIDE WITH 8-PIN MODULAR PLUG ON BOTH ENDS AND TIA 568A PIN/PAIR ASSIGNMENTS, MOLEX PCD-0020x-BK (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 CATEGORY-6 REQUIREMENTS AT SUBMITTAL.

*** 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.

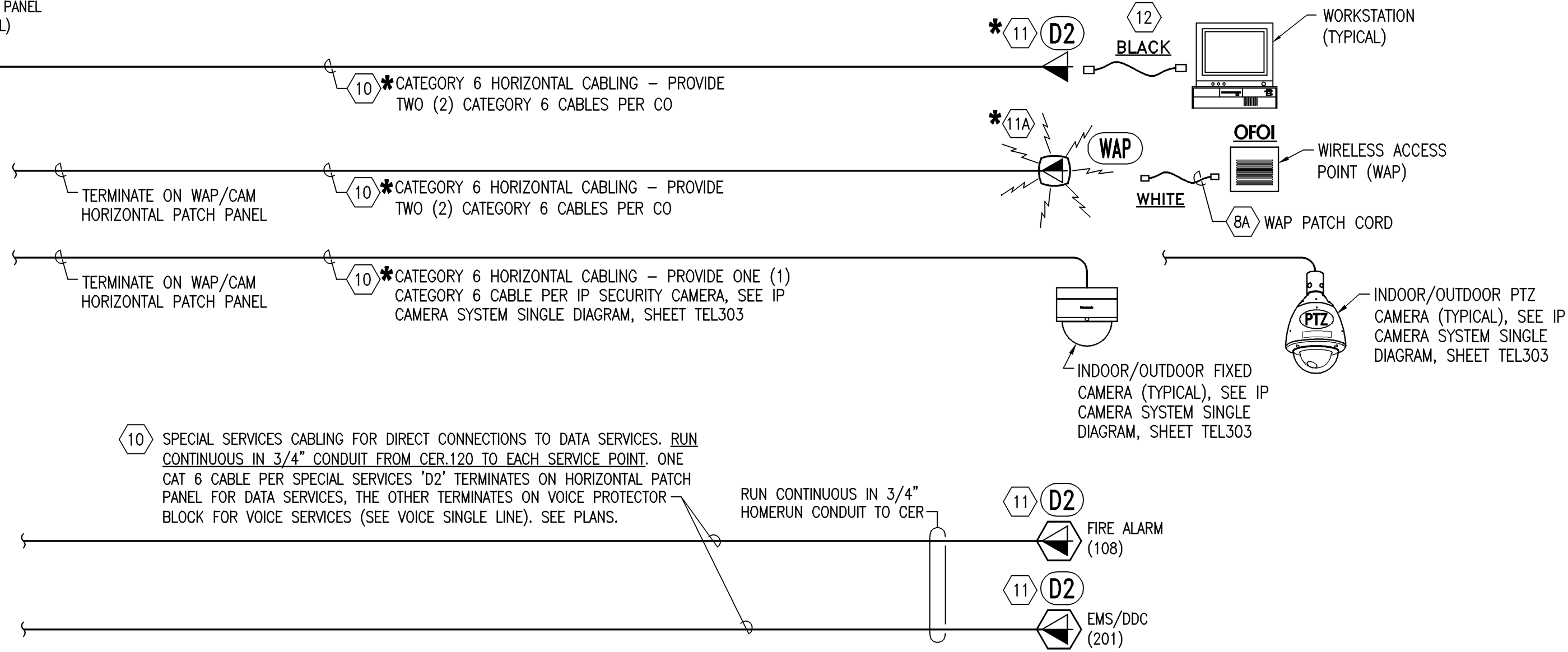


APPROVED CATEGORY 6 HORIZONTAL CABLES				
APPLICATION	MANUFACTURER	PART NUMBER	UL JACKET	JACKET COLOR
RISER	COMMSCOPE	ULTRAPIPE 6E 4662904/10	CMR	GREY
	GENERAL	6500 PREMIUM 7133933	CMR	GREY
	HITACHI	SUPRA 660 30022-GA3	CMR	GREY
	SUPERIOR ESSEX	NEXTGAIN 54-272-3A	CMR	GREY
	MOHAWK	GIGALAN 6E+ M57422	CMR	GREY
	MOLEX	POWERCAT 6 ENHANCED CAA-0183R-08	CMR	GREY

DATA PATCH CORD SCHEDULE						
TYPE	LENGTH/QTY	LENGTH/QTY	LENGTH/QTY	LENGTH/QTY	LENGTH/QTY	LENGTH/QTY
6	1m / 2	2m / 2	3m / 1	5m / 1	-- / --	-- / --
8	1' / 30	3' / 5	5' / 5	7' / 2	10' / 2	-- / --
8A	1' / 25	3' / 5	5' / 5	-- / --	-- / --	-- / --
8B	1' / 60	3' / 10	5' / 10	-- / --	-- / --	-- / --
12	-- / --	-- / --	5' / 15	7' / 15	10' / 10	-- / --

DATA PATCH CORD SCHEDULE NOTES:

- FURNISH PATCH CORDS TO OWNER LOOSE PRIOR TO INSTALLATION. VERIFY ALL QUANTITIES AND LENGTHS WITH OWNER'S PROJECT MANAGER AND PROVIDE SIGNED COPY OF RECEIPT TO ENGINEER AT PROJECT SUBSTANTIAL COMPLETION.
- SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR PATCH CORD DELIVERY AND INSTALLATION. ALL PATCH CORDS SHALL BE NEATLY ROUTED, BUNDLED AND SECURED AT 6" ON CENTER WITH BLACK VELCRO STRAPS. BUNDLE DATA PATCH CORDS SEPARATELY. DO NOT BUNDLE WITH VOICE PATCH CORDS. BUNDLE FIBER OPTIC PATCH CORDS SEPARATELY FROM COPPER PATCH CORDS.
- PROVIDE EXCEL SPREADSHEET IDENTIFYING CONNECTIONS MADE, SEE SPECIFICATIONS.



DATA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM

NOT TO SCALE

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

TV SYSTEM SIGNAL LEVEL TUNING NOTES:

- CONTACT OWNER'S PROJECT MANAGER PRIOR TO COMMENCING SYSTEM TUNING TO COORDINATE TUNING PLAN.
- 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 800CLJ.
- 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.
- 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 INDICATED ON "TV DISTRIBUTION AMPLIFIER SCHEDULE."
 - SLOPE ADJUSTMENT: SET SLOPE CONTROL ACHIEVE AMPLIFIER OUTPUT SIGNAL LEVEL AS INDICATED ON "TV DISTRIBUTION AMPLIFIER SCHEDULE."
- 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.
- 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:

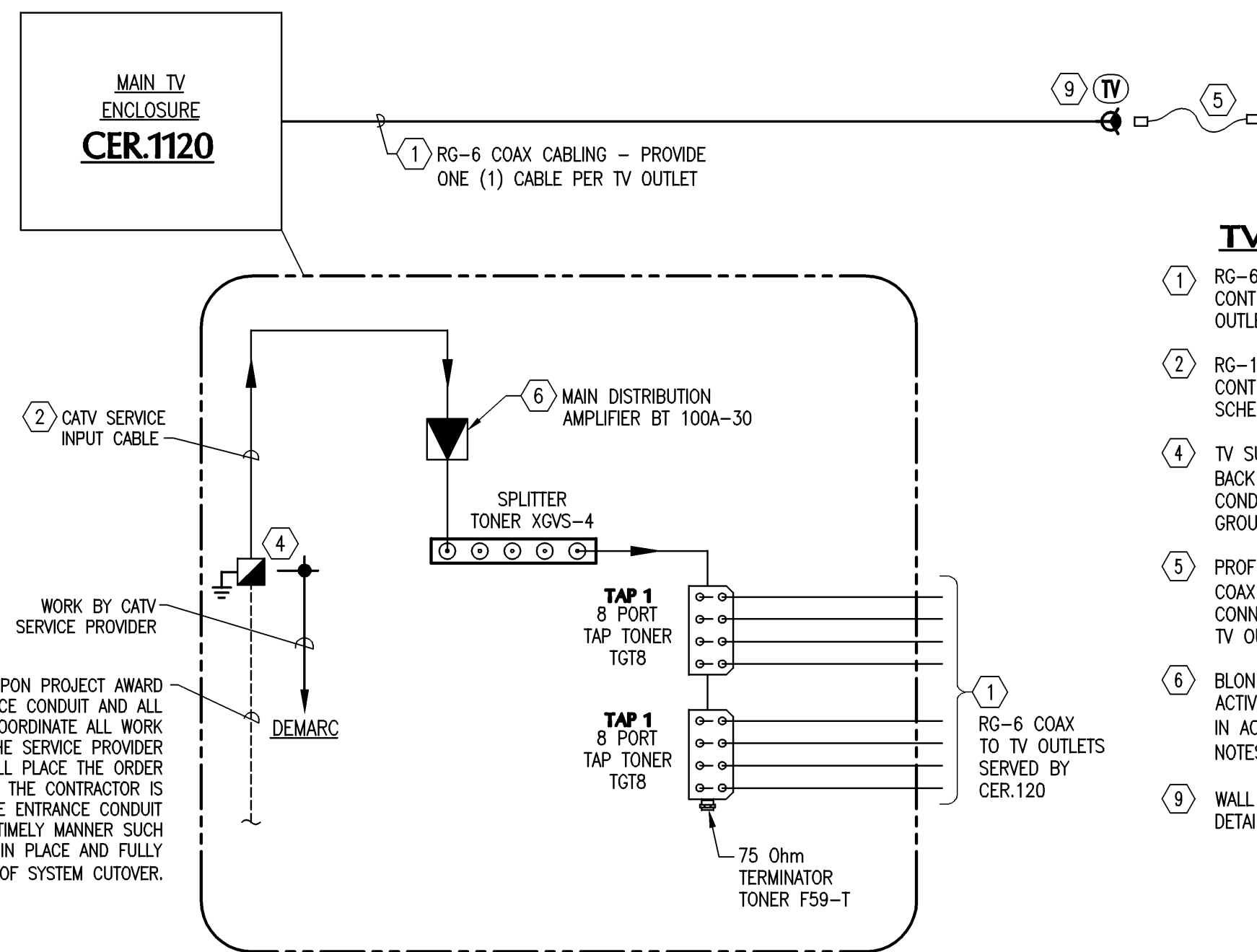
- REFER TO FLOOR PLANS FOR ACTUAL DEVICE COUNTS.
- CABLE SHALL BE CONTINUOUS BETWEEN DEVICES. INTERMEDIATE SPLICES OR COUPLINGS ARE NOT ALLOWABLE.
- ALL RG-6 AND RG-11 COAXIAL CONNECTORS SHALL BE "I" TYPE, AUGAT/THOMAS & BETTS/TONER "LRC" SNAP-IN-SEAL. ALL COAXIAL CONNECTIONS SHALL BE MADE BY TRAINED TECHNICIANS WITH PROFESSIONAL GRADE TOOLS SPECIFICALLY MANUFACTURED FOR EACH CONNECTOR TYPE.
- 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.
- PROVIDE TONER F59-T 75 Ohm TERMINATORS AT EACH UNUSED PORT OF ALL SPLITTERS, TAPS AND OUTLETS.
- 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 IDENTIFICATION (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.
- 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.
- 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

TV SYSTEM LEGEND

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

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

THE SCC CONTRACTOR SHALL NOTIFY THE OWNER UPON PROJECT AWARD AND AGAIN 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 LIBRARY ARE IN PLACE AND FULLY OPERATIONAL WELL AHEAD (2 WEEKS MINIMUM) OF SYSTEM CUTOVER.



TV SYSTEM KEY NOTES:

- RG-6 COAXIAL TV CABLE, RISER JACKET, RUN CONTINUOUS WITH NO SPLICES OR COUPLERS TO TV OUTLET. SEE SCHEDULE.
- RG-11 COAXIAL TV CABLE, RISER JACKET, RUN CONTINUOUS WITH NO SPLICES OR COUPLERS. SEE SCHEDULE.
- 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.
- PROFESSIONAL GRADE FACTORY MADE JUMPEERS, RG-6 COAX WITH SCREW-ON "I" TYPE SWIVEL "GOLD" CONNECTORS EACH END, QUANTITY EQUAL TO NUMBER OF TV OUTLETS PLUS 25% SPARE, LENGTH AS REQUIRED.
- BLOWER TONGUE MODEL BDA 100A-30 WITH INTEGRATED ACTIVE RETURN PATH MAIN DISTRIBUTION AMPLIFIER. TUNE IN ACCORDANCE WITH "TV SYSTEM SIGNAL LEVEL TUNING NOTES".
- WALL MOUNTED TELEVISION OUTLET, TYPE "TV". SEE DETAILS.

TV SYSTEM CABLE DISTRIBUTION SINGLE LINE CONFIGURATION DIAGRAM

NOT TO SCALE

SEE PLANS FOR EXACT OUTLET QUANTITY

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



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Page No: 122298

SEAL

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florida certificate of
authorization A40003597

PROJECT:
Gulf Breeze Community Center
800 Prichard Drive
Gulf Breeze, FL 32561

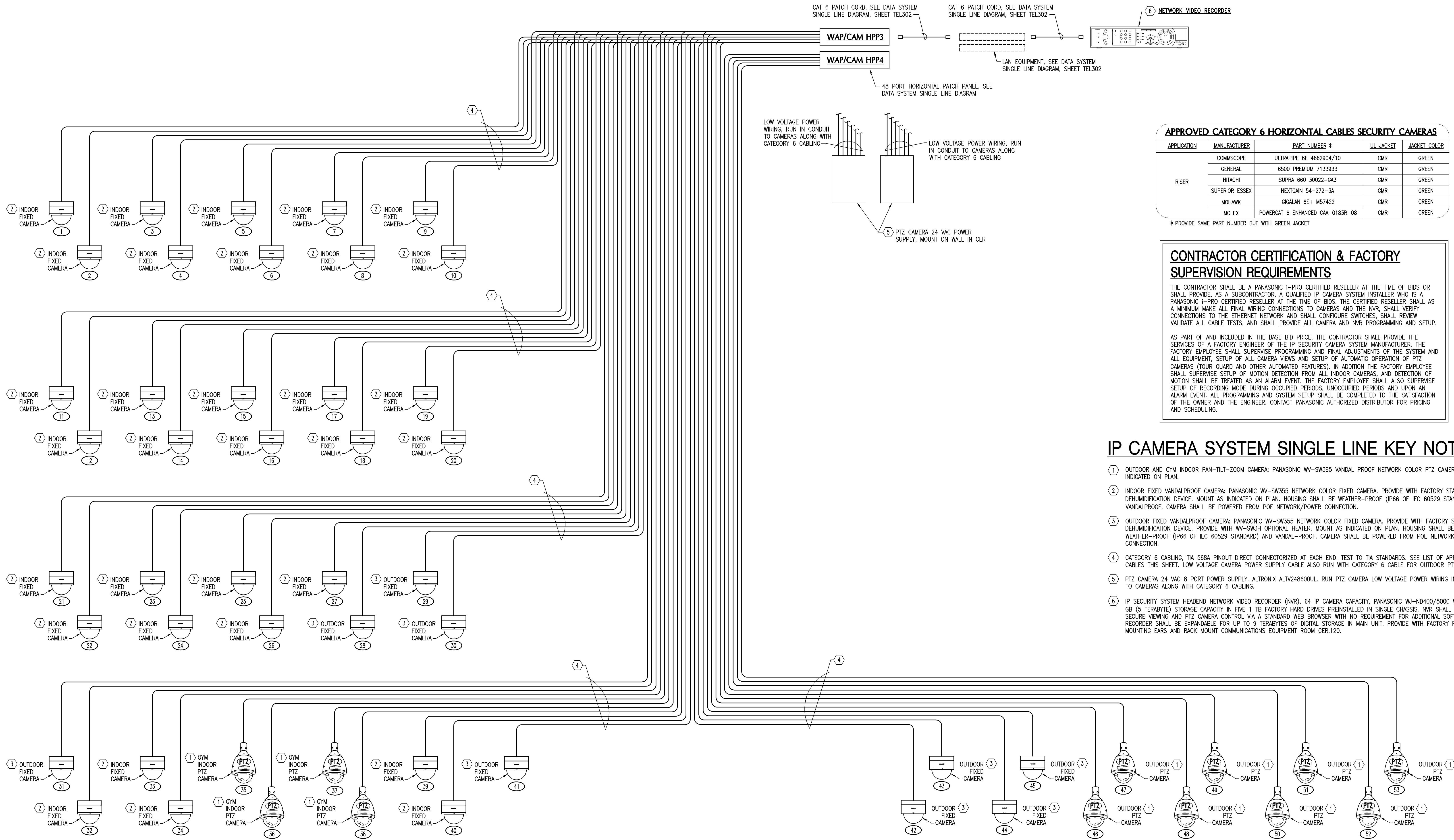
SHEET TITLE:
IP SECURITY CAMERA SYSTEM SINGLE LINE DIAGRAM

PROJECT NO:
FILE NO:
DATE: 06.01.2011
REVISION:

SHEET

TEL303

COMMUNICATIONS EQUIPMENT ROOM CER.120



IP SECURITY CAMERA SYSTEM SINGLE LINE DIAGRAM

NOT TO SCALE

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



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STANDARD DEPTH BOX AND FITTINGS TO MATCH 'CO' SURFACE RACEWAY. EXTEND 1/2" FLEXIBLE METALLIC CONDUIT FROM BOX UP THROUGH RACEWAY TO JUNCTION BOX ABOVE CEILING. POWER RECEPTACLE SHALL BE HUBBELL 536S RECEPTACLE WITH STAINLESS STEEL FACEPLATE. RUN CONDUIT & CONDUCTORS (2#12, #12G, 1/2"C.) TO NEAREST POWER PANEL WITH SPACE AND PROVIDE CIRCUIT BREAKER.

THE SCSU SHALL BE CERTIFIED BY THE INTERCOM/PA MANUFACTURER AT THE TIME OF BIDS FOR THE VALCOM 'MULTIPATH' SYSTEM.

CARD OUTPUT PER VALCOM PINOUT. PUNCH OTHER END DOWN ON 'PA MAIN USER INTERFACE BLOCK' ROW 'A' PAIRS 21-24.

10) **PA INTERFACE OUTLET BLOCK:** PROVIDE ENGRAVED PLASTIC TAG WITH DOUBLE SIDED TAPE, WHITE WITH 3/16" HIGH BLACK TEXT AS INDICATED, SECURE TO FACE OF BACKBOARD NEXT TO BLOCK FOR HIGH VISIBILITY. SECURE WITH DOUBLE SIDED TAPE AND TWO SS SCREWS. FOR TEXT SEE THIS SHEET.

[illegible]

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

22 GAGE CROSS-CONNECTS FROM V-TCM TALKBACK SPEAKER OUTPUT BLOCK TO TALKBACK SPEAKER AND CALL BUTTON HORIZONTAL WIRING BLOCK VIA BACKBONE BLOCKS, PROTECTORS AND BACKBONE CABLES (AS APPLICABLE). COLOR (WHITE/BLUE) FOR TALKBACK SPEAKER AUDIO, (WHITE/GREEN) FOR CALL BUTTONS.

22 GAGE CROSS-CONNECTS - FROM ONE-WAY ZONE BRIDGING BLOCK TO ONE-WAY SPEAKER HORIZONTAL WIRING BLOCK, COLOR (WHITE/BLUE) FOR SPEAKER AUDIO.

BLOCK TERMINATION NOTES ONE-WAY ZONE BRIDGING BLOCK

PROVIDE PAIRED CROSS-CONNECTS AS REQUIRED TO BRIDGE THE SPEAKER AUDIO CIRCUIT FOR EACH ZONE TO ALL SPEAKERS IN THE ASSOCIATED HARD-WIRED SPEAKER ZONE AS FOLLOWS:

- FROM V-STX OUTPUT BLOCK TO ONE-WAY ZONE BRIDGING BLOCK, QUANTITY EQUAL TO TOTAL NUMBER OF ONE-WAY ZONES PER SERVING CER.
- FROM ONE-WAY ZONE BRIDGING BLOCK TO ONE-WAY SPEAKER HORIZONTAL WIRING BLOCK, QUANTITY EQUAL TO TOTAL NUMBER OF ONE-WAY SPEAKERS PER SERVING CER.

22 GAGE CROSS-CONNECTS FROM V-TCM TALKBACK SPEAKER OUTPUT BLOCK TO TALKBACK SPEAKER AND CALL BUTTON HORIZONTAL WIRING BLOCK VIA BACKBONE BLOCKS, PROTECTORS AND BACKBONE CABLES (AS APPLICABLE). COLOR (WHITE/BLUE) FOR TALKBACK SPEAKER AUDIO, (WHITE/GREEN) FOR CALL BUTTONS.

22 GAGE CROSS-CONNECTS FROM V-STX ONE-WAY SPEAKER OUTPUT BLOCK TO ONE-WAY SPEAKER HORIZONTAL WIRING BLOCK VIA BACKBONE BLOCKS, PROTECTORS AND BACKBONE CABLES (AS APPLICABLE). COLOR (WHITE/BLUE) FOR SPEAKER AUDIO.

BACKBONE CABLES, SEE "INTERCOM/PA SYSTEM SINGLE LINE CONFIGURATION DIAGRAM"

22 GAGE CROSS-CONNECTS FROM V-TCM TALKBACK SPEAKER OUTPUT BLOCK TO TALKBACK SPEAKER AND CALL BUTTON HORIZONTAL WIRING BLOCK VIA BACKBONE BLOCKS, PROTECTORS AND BACKBONE CABLES (AS APPLICABLE). COLOR (WHITE/BLUE) FOR TALKBACK SPEAKER AUDIO, (WHITE/GREEN) FOR CALL BUTTONS.

BLOCK TERMINATION NOTES V-TCM OUTPUT BLOCK

PROVIDE TWO PAIRED CROSS-CONNECTS FOR EACH TALKBACK SPEAKER/CALL SWITCH STATION IN CER.

CONNECT BLOCK 50 PIN CONNECTORS TO V-TCM1 AND V-TCM2 HEADEND CARDS "P1" AND "P2" OUTPUT 50 PIN CONNECTORS WITH 25 PAIR "AMPHENOL" CONNECTORIZED CABLES.

22 GAGE CROSS-CONNECTS FROM V-STX ONE-WAY SPEAKER OUTPUT BLOCK TO ONE-WAY SPEAKER HORIZONTAL WIRING BLOCK VIA BACKBONE BLOCKS, PROTECTORS AND BACKBONE CABLES (AS APPLICABLE). COLOR (WHITE/BLUE) FOR TALKBACK SPEAKER AUDIO, (WHITE/GREEN) FOR CALL BUTTONS.

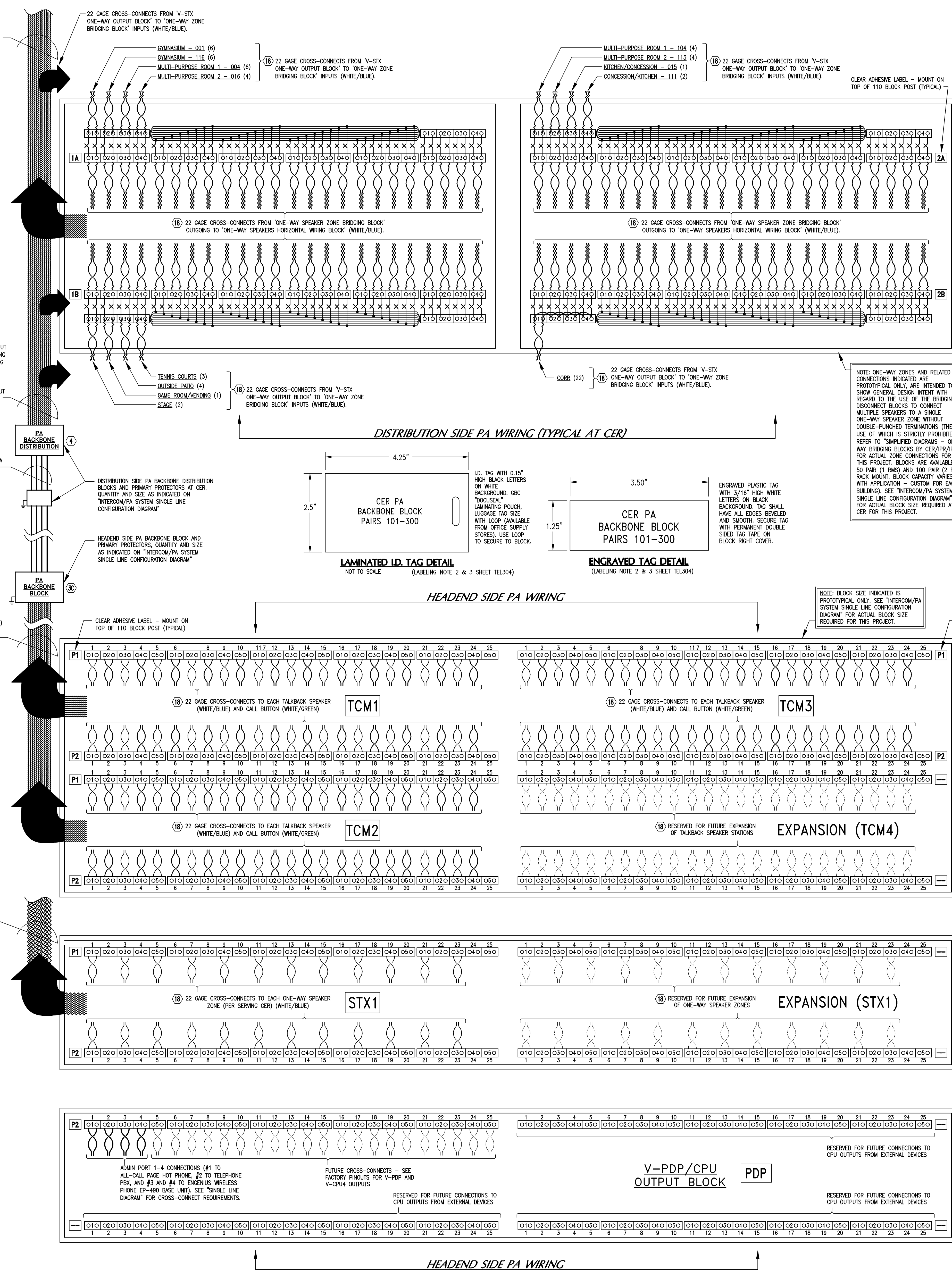
BLOCK TERMINATION NOTES V-STX OUTPUT BLOCK

PROVIDE ONE PAIRED CROSS-CONNECT TO ONE-WAY ZONE BRIDGING BLOCK FOR EACH HARD-WIRED ONE-WAY SPEAKER ZONE IN CER.

CONNECT BLOCK 50 PIN CONNECTORS TO V-STX1 HEADEND CARD "P1" AND "P2" OUTPUT 50 PIN CONNECTORS WITH 25 PAIR "AMPHENOL" CONNECTORIZED CABLES.

BLOCK TERMINATION NOTE - V-PDP/CPU BLOCK

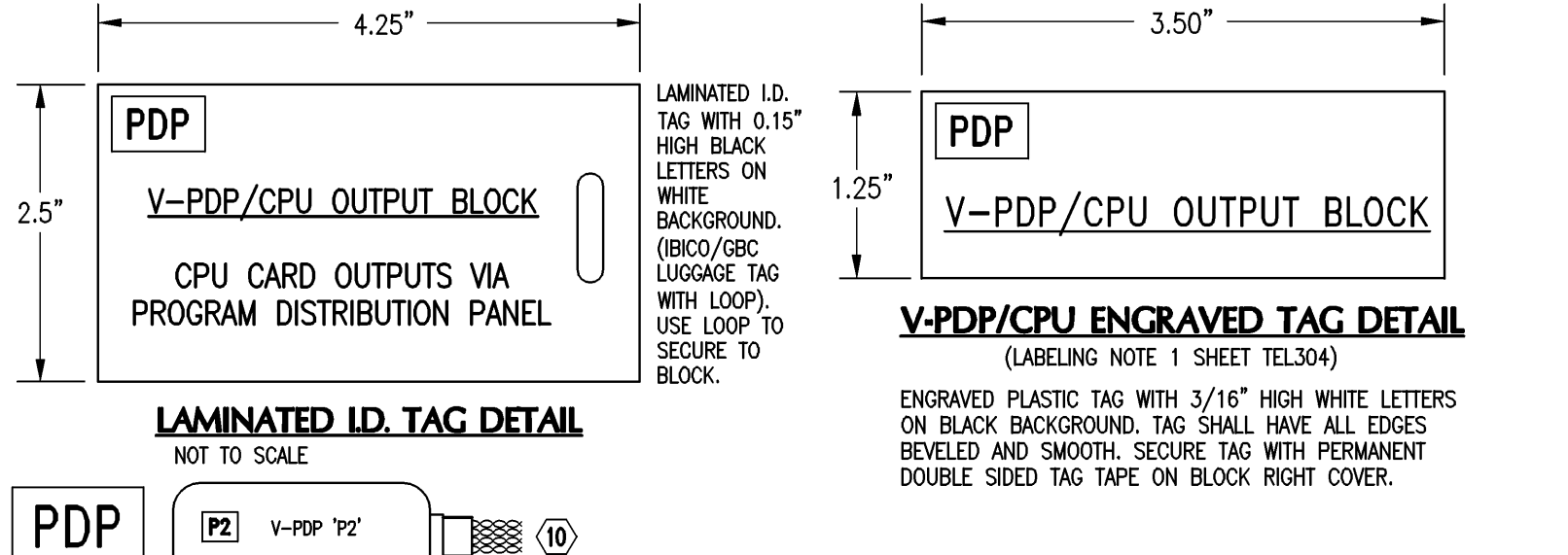
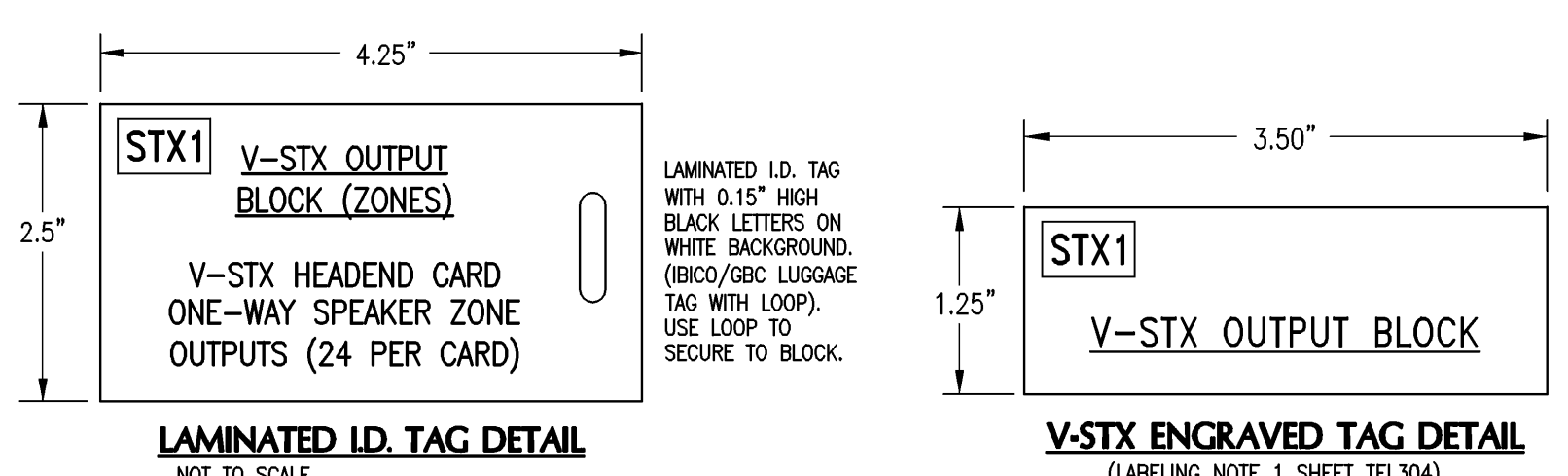
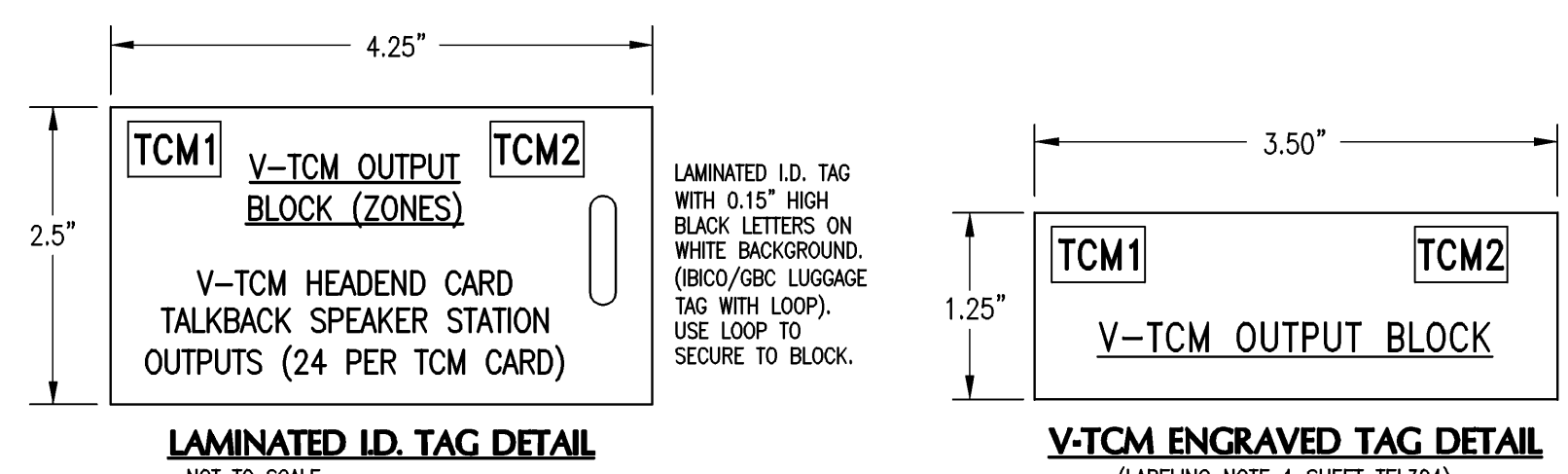
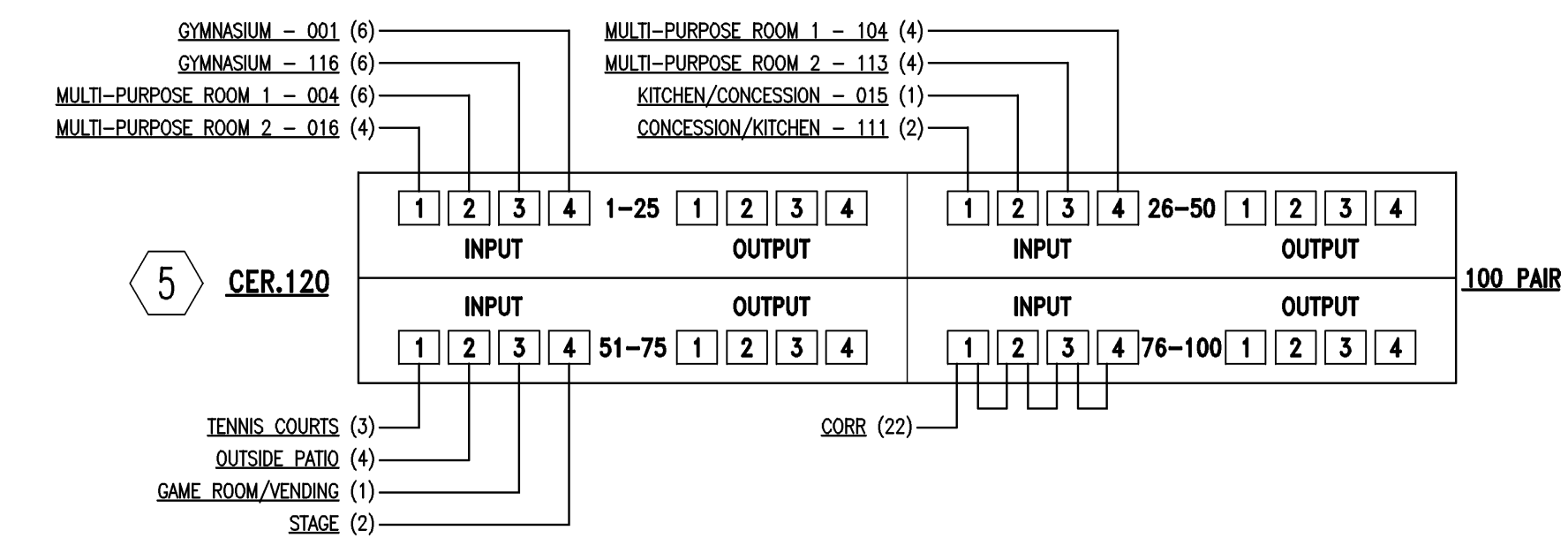
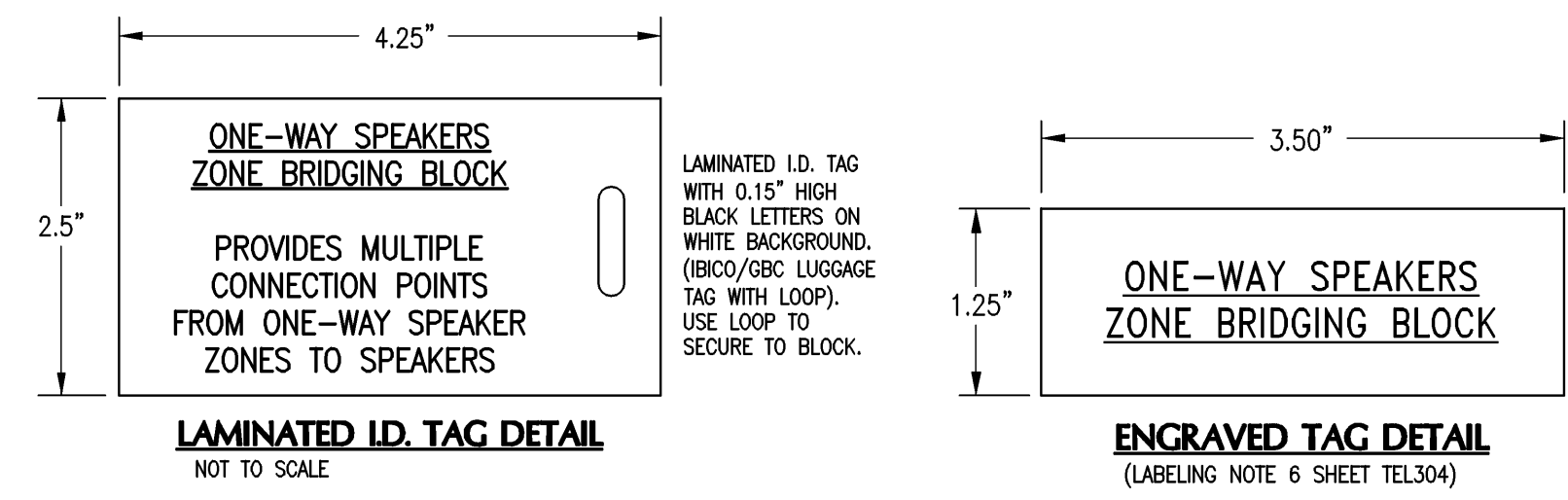
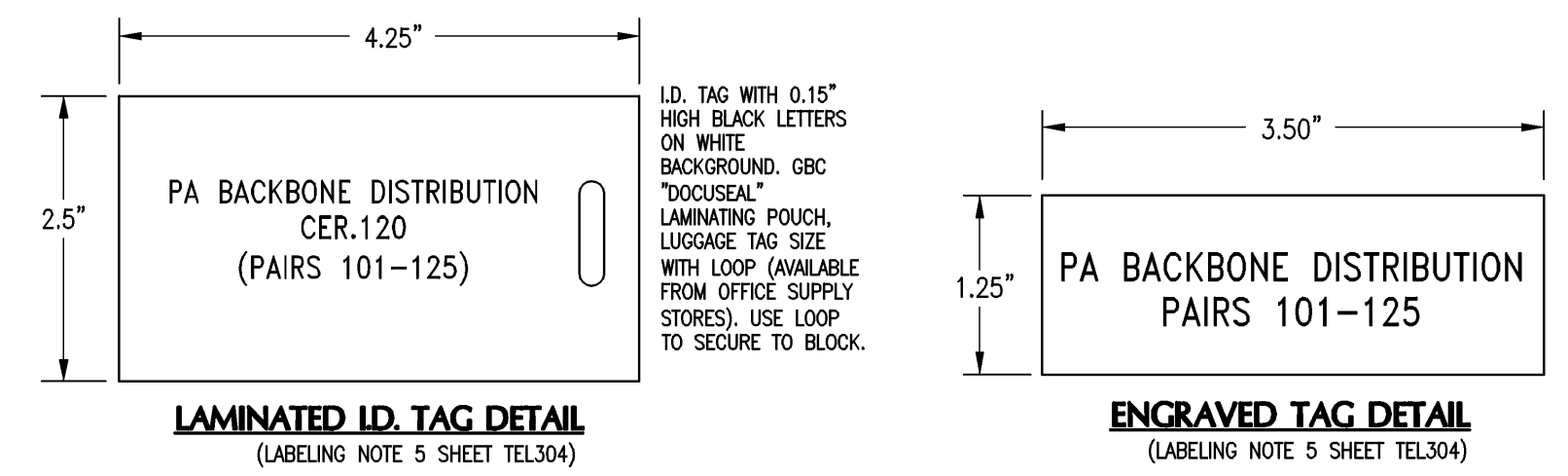
PROVIDE CROSS-CONNECTS AS INDICATED ON "SINGLE LINE DIAGRAM". CONNECT BLOCK 50 PIN CONNECTOR TO V-PDP "P2" OUTPUT 50 PIN CONNECTOR WITH 25 PAIR "AMPHENOL" CONNECTORIZED CABLE.



INTERCOM/PA SYSTEM DETAILED WIRING DIAGRAM - PART 1

NOT TO SCALE

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



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4410 W. Nine Mile Road, Suite A, Pensacola, Florida 32504
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Premise Project #10054

SEAL
Samuel L. Gulley, PE #50007

bay design
associates architects, p.l.l.c.
florida certificate of
authorization AA0003597

PROJECT:
Gulf Breeze Community Center
800 Prichard Drive
Gulf Breeze, FL 32561

SHEET TITLE:
INTERCOM/PA SYSTEM DETAILED WIRING DIAGRAM - PART 1

PROJECT NO:
FILE NO:
DATE: 06.01.2011
REVISION:

SEAL

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authorization AAD003597

PROJECT:
Gulf Breeze Community Center

SHEET TITLE:
INTERCOM/PA SYSTEM DETAILED WIRING DIAGRAM - PART 2

PROJECT NO:
FILE NO:
DATE: 06.01.2011
REVISION:

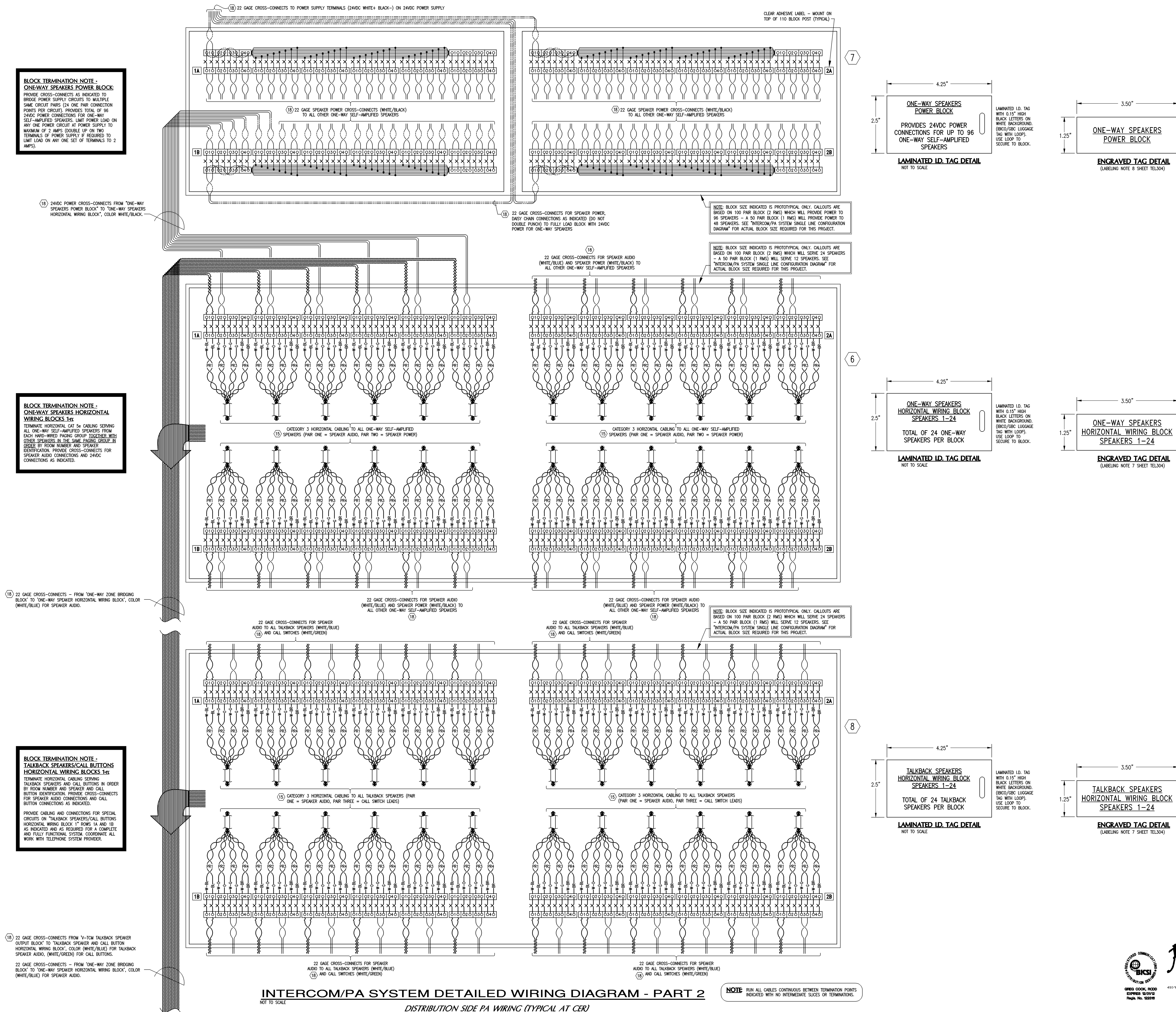
SHEET

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Premise Project #10054

CREW: CMM, RCD
DRAWN: 12/19/12
PLOT: No. 12228



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

CER GENERAL NOTES:

CABLE ROUTING: ROUTE CABLES IN CABLE RUNWAY. BUNDLE FIBER OPTIC, VOICE BACKBONE AND HORIZONTAL CABLEING 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 CABLEING 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: BACKBOARDS 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.

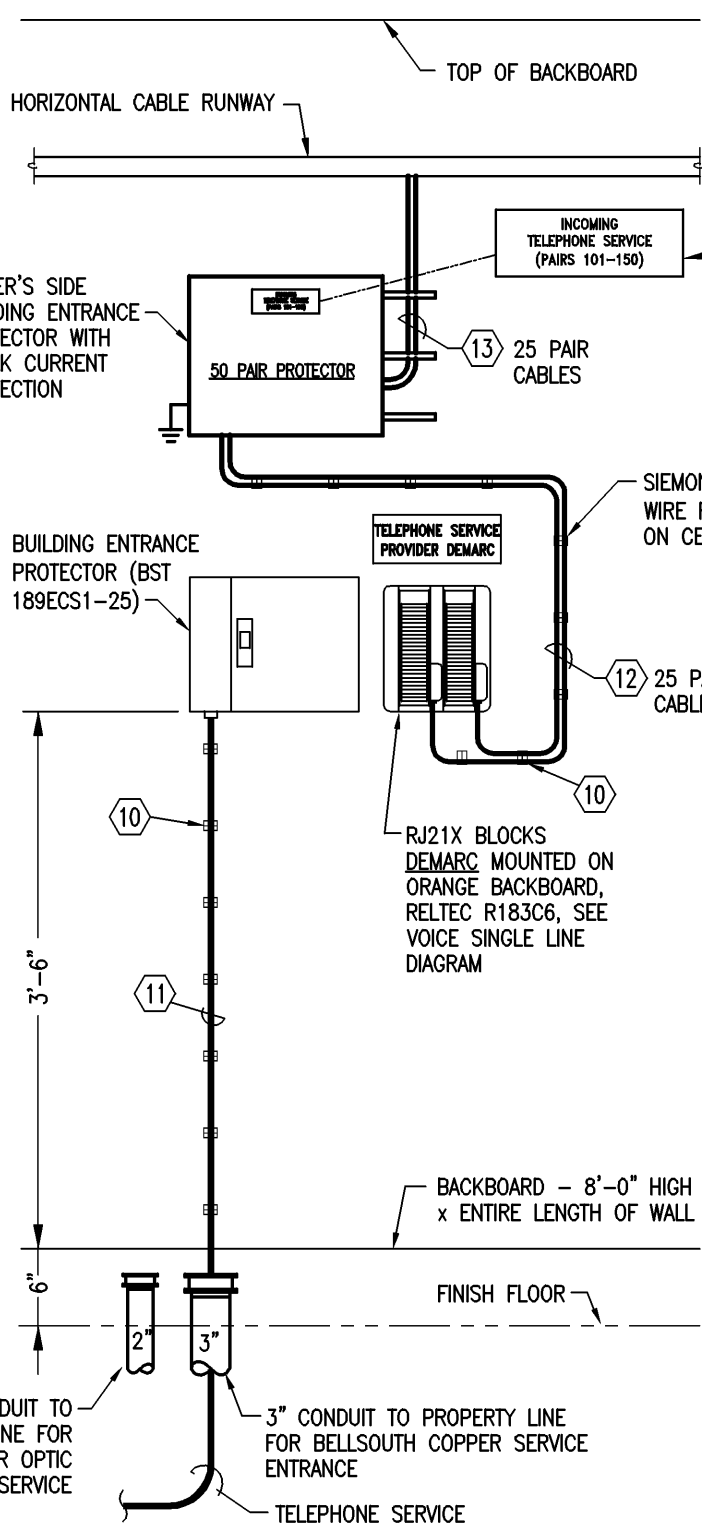
CER FASTENERS: ALL ATTACHMENTS MADE TO CABLE TRAY OR RACKS SHALL HAVE SCREWS, BOLTS OR ANY OTHER MOUNTING HARDWARE INSTALLED IN DIRECTION AWAY FROM ALL COMMUNICATIONS CABLEING. SELF TAPPING SCREWS ARE NOT ACCEPTABLE. ALL MOUNTING SCREWS SHALL BE BLACK.

CER 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 TERMINATIONS: MAKE ALL TERMINATIONS IN STRICT ACCORDANCE WITH TIA GUIDELINES AS WELL AS THE MANUFACTURER'S PRINTED INSTRUCTIONS FOR BOTH THE CABLE AND THE TERMINATION POINT FOR ALL FIELD CONNECTIONS IN THE "HORIZONTAL TELECOMMUNICATIONS LINK". STRIP CABLE AND SET BACK A MAXIMUM OF 1" INCH FROM THE POINT OF TERMINATION. MAINTAIN FACTORY SYMMETRICAL CABLE TWISTS TO WITHIN 0.5 INCHES (1.3 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.

CER GROUNDING NOTES

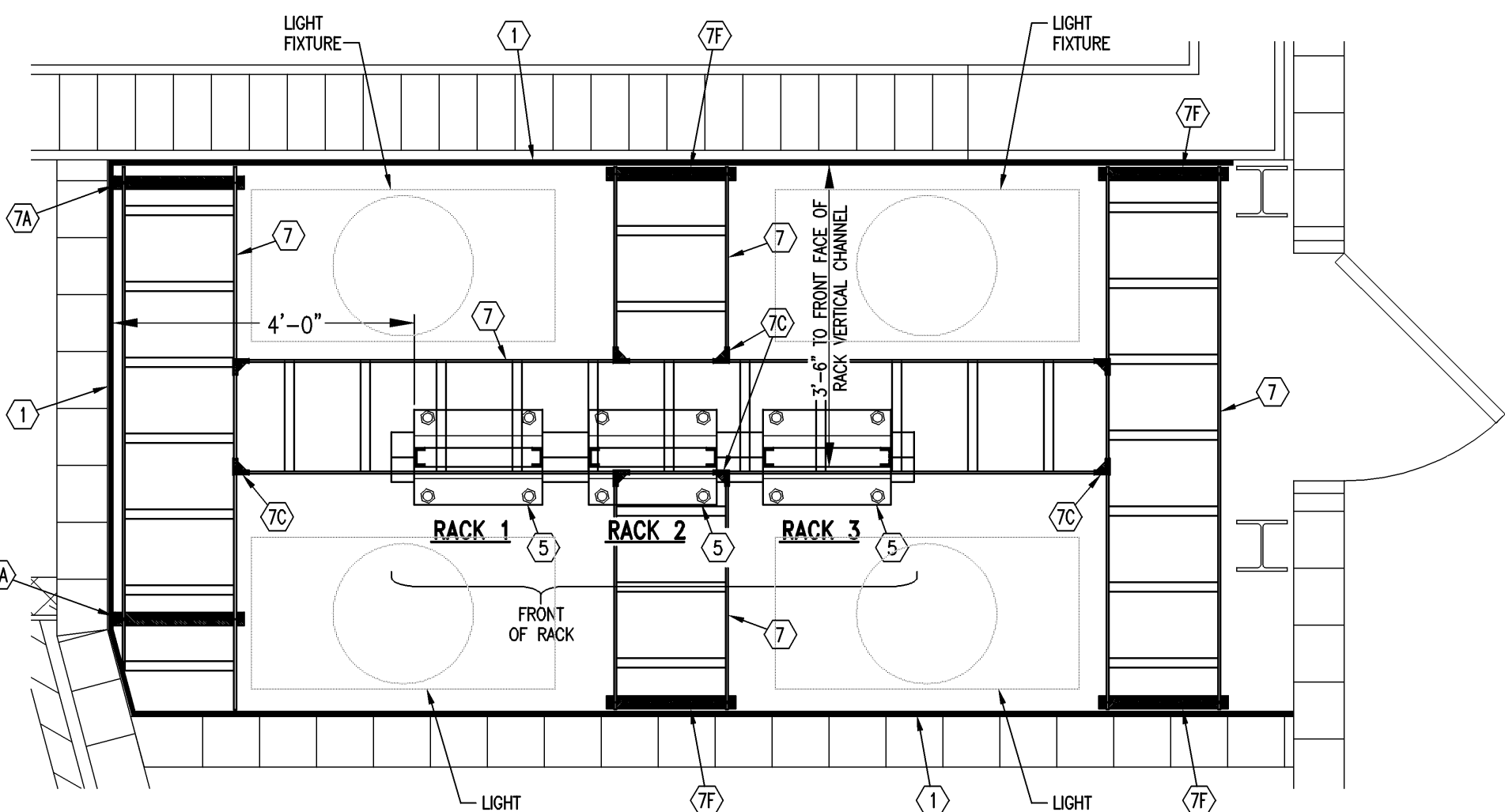
- 1) ALL GROUND CONNECTIONS SHALL BE MADE WITH HEAVY DUTY 2 HOLE COMPRESSION LUGS (HARGER GECB4-2C FOR #4AWG, GECB6-2C FOR #6AWG) AND 3/8" SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS (TWO SCREWS AND NUTS PER 2 HOLE LUG).
- 2) PROVIDE MAIN GROUNDING BUSBAR IN CER AS INDICATED. ELECTRICAL CONTRACTOR GROUND MAIN BUSBAR TO BUILDING MAIN ELECTRICAL SERVICE GROUND IN DMT CONDUIT. EVIDENCE INSULATED GROUNDING BUSBARING - MALLEABLE IRON, STEEL CITY #80-807, OR EQUIVALENT. END OF GROUND EACH END PER INCH GROUNDING TO BUILDING STRUCTURE, CONDUITS, UTILITY PIPING, OR ELECTRICAL SUBSYSTEMS IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.
- 3) 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 GROUND). ROUTE CONDUIT ALONG RACK REAR AND IN CABLE RUNWAY TO GROUNDING BUSBAR.
- 4) 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.
- 5) GROUND CABLE RUNWAY WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.
- 6) PROVIDE UL LISTED CONDUIT GROUNDING BUSBAR ON END OF EACH BACKBOARD CONDUIT AND GROUND TO BUSBAR WITH #6 AWG INSULATED (GREEN) COPPER GROUNDING CONDUCTOR. PLASTIC INSULATING BUSBAR IS ALSO REQUIRED.
- 7) GROUND TV ENCLOSURE WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.
- 8) GROUND PA HEADEND CHASSIS WITH #6 AWG INSULATED (GREEN) SOLID COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.



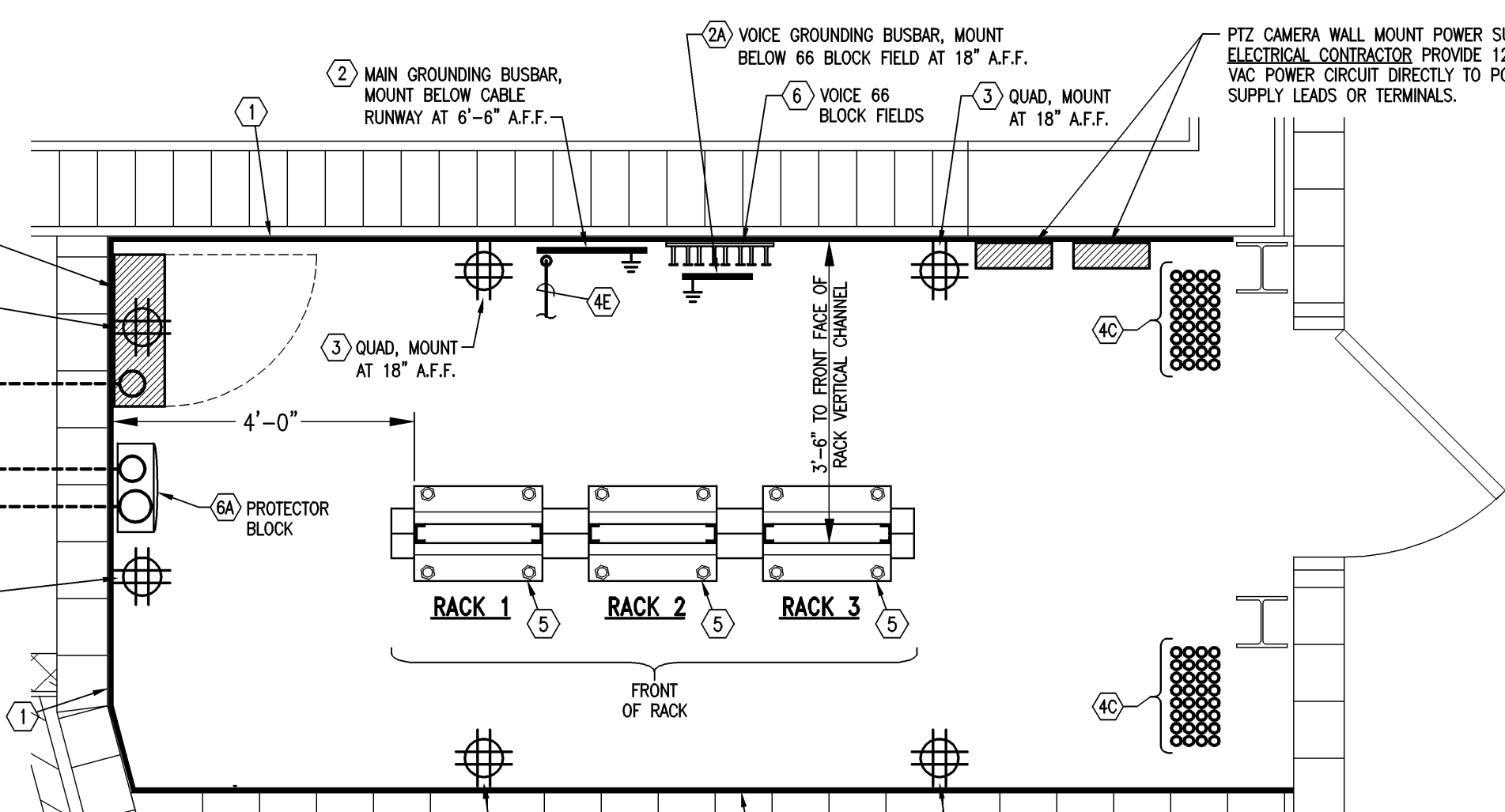
ELEVATION - TELEPHONE SERVICE ENTRANCE - CER.120
NOT TO SCALE

CER ENLARGED FLOOR PLAN KEY NOTES:

- 1) PLYWOOD BACKBOARD, 6'-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 AG EXTERIOR GRADE PLYWOOD. COUNTERSINK ALL SCREWS. FILL AND SAND SMOOTH ALL SCREWS. FILL AND SAND SMOOTH ALL SCREWS. PRIME WITH TWO COATS 'TOLZ' PRIMER, SANDING SMOOTH AFTER EACH COAT. FINISH WITH TWO COATS FIRE RETARDANT SEAL-GLASS ENAMEL PAINT, COLOR BATHSHEP (SEE USE PRODUCT FIRE SAFETY INC. PA-1 PAINT ADDITIVE MIXED WITH PRIMERY PAINT PER MANUFACTURER'S INSTRUCTIONS TO OBTAIN FIRE RETARDANT FINISH). FINAL SURFACE SHALL BE UNIFORMITY 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.
- 2) 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 CABLES INTO CER.
- 3) MAIN GROUNDING BUSBAR, HARGER GB-14420G WITH TWO ROWS OF 7/16" HOLES AT 1" SPACING EACH WAY. MAKE ALL CONNECTIONS WITH TWO HOLE LONG BARREL COMPRESSION LUGS (HARGER GECB4-2C FOR #4 AWG, GECB6-2C FOR #6 AWG) AND BOND TO BUSBAR WITH TWO 3/8" SS HEX HEAD CAP SCREWS WITH SS LOCKING NUTS. SEE "CER GROUNDING NOTES" AND "VOICE SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".
- 4) VOICE GROUNDING BUSBAR, HARGER GB-14420G WITH TWO ROWS OF 7/16" HOLES AT 1" SPACING EACH WAY. MAKE ALL CONNECTIONS WITH TWO HOLE LONG BARREL COMPRESSION LUGS (HARGER GECB4-2C FOR #4 AWG, GECB6-2C FOR #6 AWG) AND BOND TO BUSBAR WITH TWO 3/8" 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.
- 5) 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.
- 6) BACKBONE CONDUITS. SEE "COMMUNICATIONS GROUND LEVEL FLOOR PLAN" FOR CONDUIT REQUIREMENTS AND ROUTING. SEE SINGLE LINE CONFIGURATION DIAGRAMS FOR CABLE REQUIREMENTS. KEEP TIGHT TO BACKBOARD AND TERMINATE WITH END BELL.
- 7) HOMERUN CONDUITS FROM COV, TV OUTLETS, IP SECURITY CAMERAS, AND PA SPEAKERS. STUB CONDUITS THRU CEILING TILE (TRIM TILE CLOSE AROUND CONDUIT) AND TERMINATE AT 8" ABOVE CABLE RUNWAY. SECURE ABOVE AND BELOW CEILING.
- 8) BY ELECTRICAL CONTRACTOR: EMT CONDUIT TO BUILDING MAIN ELECTRICAL PANEL FOR GROUNDING CONDUCTOR. PROVIDE WITH INSULATED GROUNDING BUSBARING - MALLEABLE IRON, STEEL CITY #80-807.
- 9) FLOOR MOUNT EQUIPMENT RACK. REFER TO RACK ELEVATION DETAILS.
- 10) 66 VOICE BLOCKS - GREEN AND BLUE FIELDS. PROVIDE D-RINGS AT 8" ON CENTER HORIZONTAL AND VERTICAL FOR CABLE MANAGEMENT.
- 11) MOUNTING TELEPHONE SERVICE PROTECTOR BLOCK. PROVIDE D-RINGS AT 8" ON CENTER HORIZONTAL AND VERTICAL FOR CABLE MANAGEMENT. SEE ELEVATION.
- 12) 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.
- 13) 18" CABLE RUNWAY STEEL TRIANGULAR SUPPORT BRACKET KIT, COLOR BLACK, CHATSWORTH 11746-718.
- 14) CABLE RUNWAY JUNCTION SPlice KIT, CHATSWORTH 11302-001.
- 15) CABLE RUNWAY WALL ANGLE SUPPORT KIT, CHATSWORTH 11421-718.
- 16) MAIN TV ENCLOSURE. SEE "MAIN TV ENCLOSURE LAYOUT" DETAIL.
- 17) WIRE RINGS AT 6" ON CENTER, SEMON 5143A, SECURE TO BACKBOARD WITH FACTORY ADHESIVE BACK AND FOUR SCREWS.
- 18) 50 PAIR TELEPHONE SERVICE ENTRANCE CABLE FROM AT&T. ROUTE IN WIRE RINGS AS INDICATED.
- 19) 25 PAIR TELEPHONE CABLES FROM TELEPHONE DEMARC TO "INCOMING TELEPHONE SERVICE" PROTECTOR BLOCK. ROUTE IN WIRE RINGS AS INDICATED.
- 20) 25 PAIR TELEPHONE CABLES FROM "INCOMING TELEPHONE SERVICE" PROTECTOR BLOCK TO CUSTOMER SIDE TELEPHONE SERVICE ENTRANCE 66 BLOCKS ON TELEPHONE GREEN BACKBOARD. ROUTE IN CABLE RUNWAY AS INDICATED. PROVIDE D-RINGS AT 8" ON CENTER ON TELEPHONE SYSTEM BACKBOARD.
- 21) ENGRAVED IDENTIFICATION TAG. SEE "TYPICAL VOICE BLOCK ENGRAVED TAG DETAIL" AND "VOICE SYSTEM SINGLE LINE CONFIGURATION DIAGRAM".



CER.120 - CABLE RUNWAY



CER.120 - CONDUITS AND ELECTRICAL

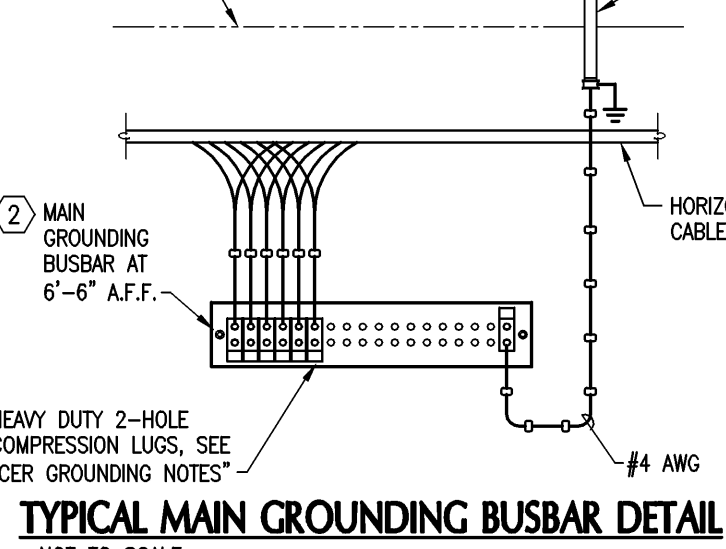
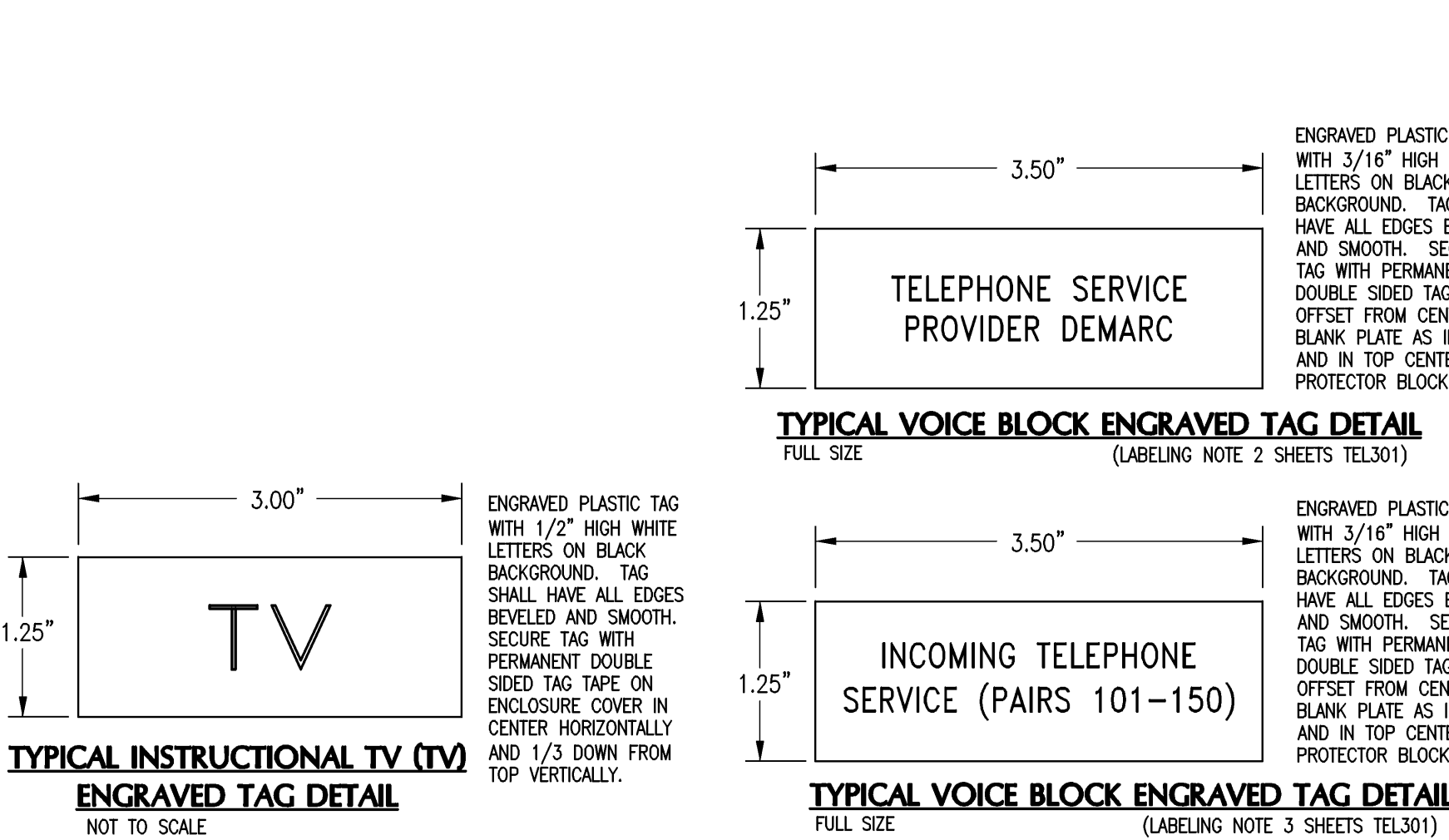
COMMUNICATIONS EQUIPMENT ROOM - CER.120 - ENLARGED FLOOR PLAN

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

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

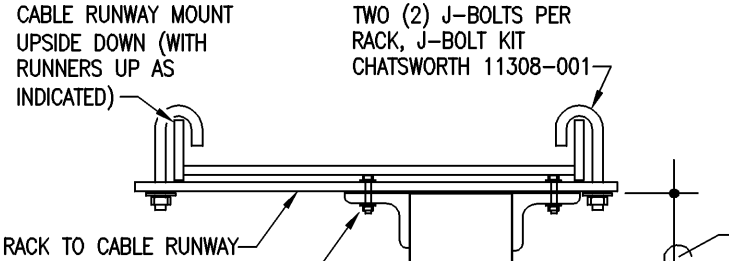
POWER CORD NOTE: The Structured Cabling System Contractor shall provide factory made electrical power extension cords as required to extend power connections from all Owner Furnished data equipment to rack power strips. Cords shall route from equipment, up racks attached to standoff brackets as indicated on drawings, and over in cable runway to rack power strips. The Structured Cabling System Contractor shall also 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.

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.



CABLE RUNWAY MOUNTING HEIGHT NOTE

BOTTOM OF CABLE RUNWAY MUST BE MOUNTED AT EXACT HEIGHT ABOVE THE FINISHED FLOOR TO ALLOW INSTALLATION OF 7'-6\"/>

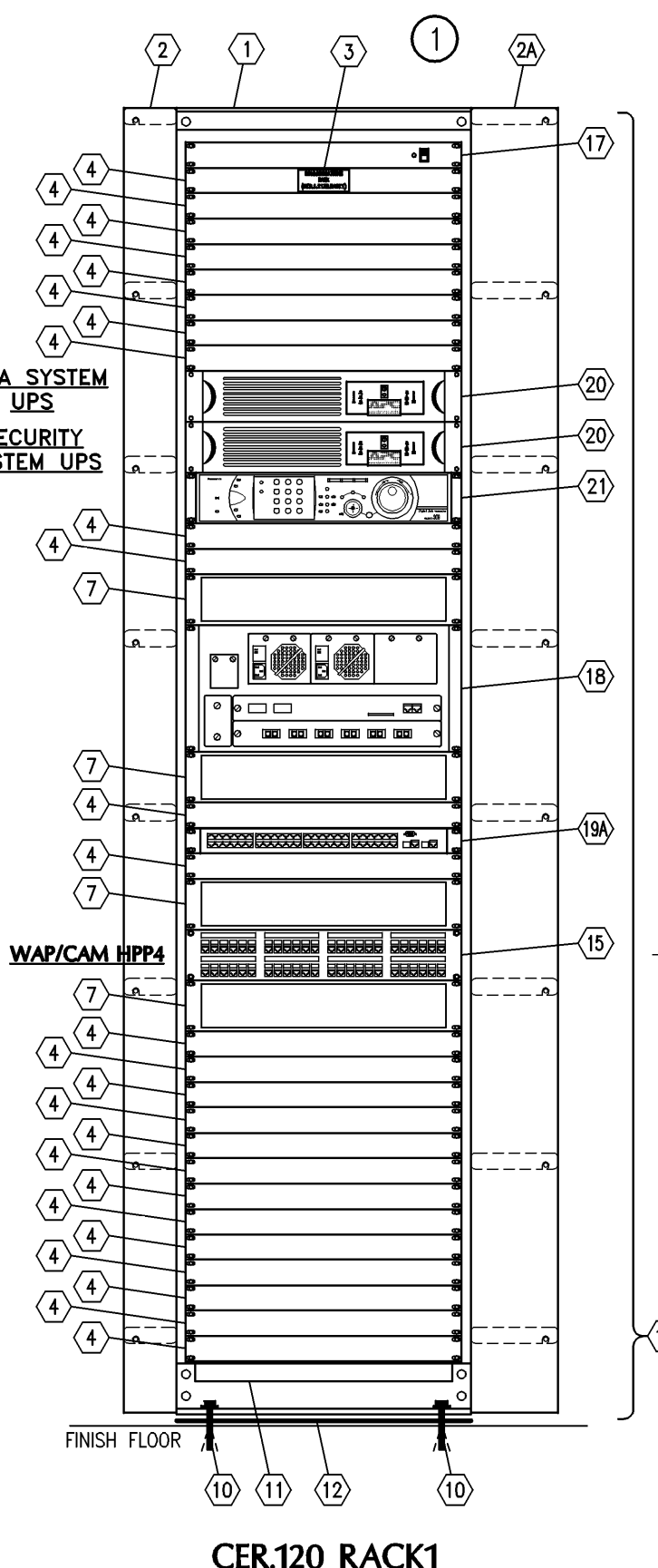


TYPICAL CABLE RUNWAY RACK SUPPORT DETAIL

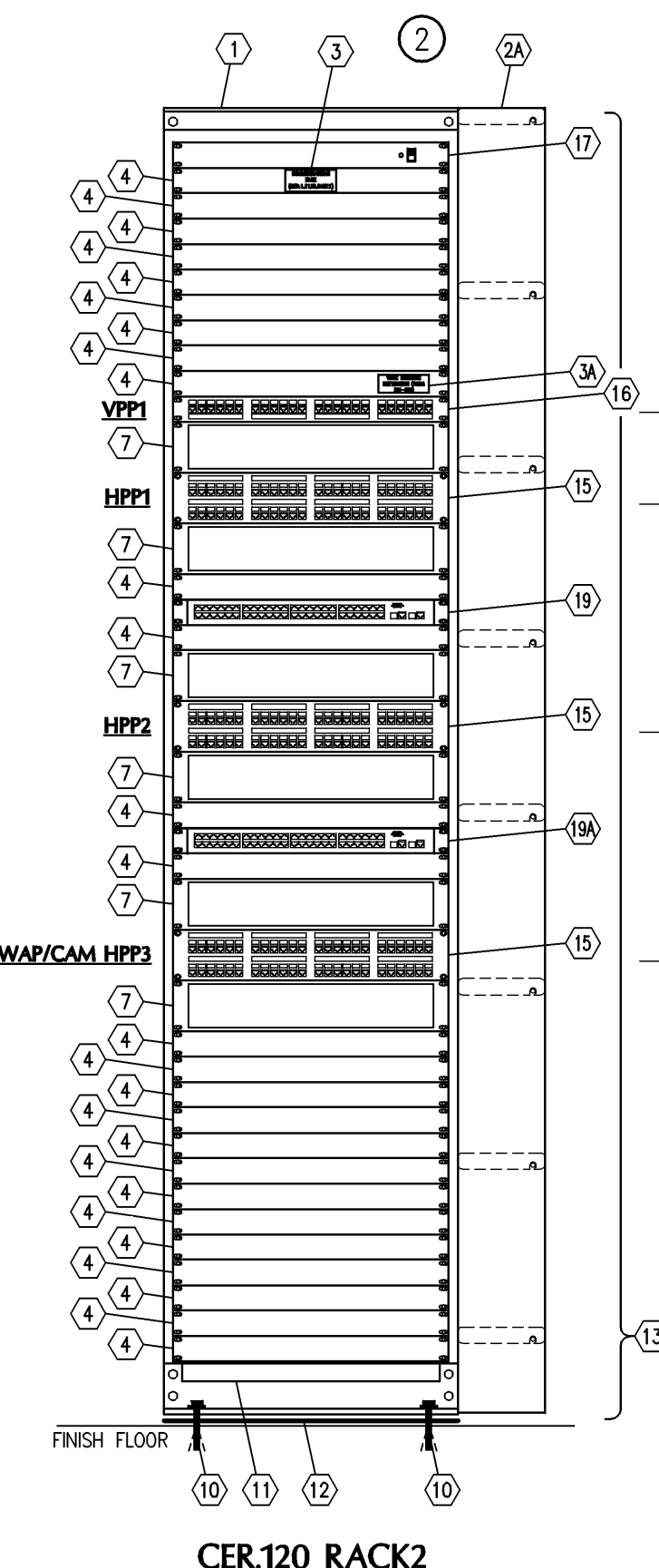
NOT TO SCALE

COMMUNICATIONS RACK ELEVATION KEY NOTES:

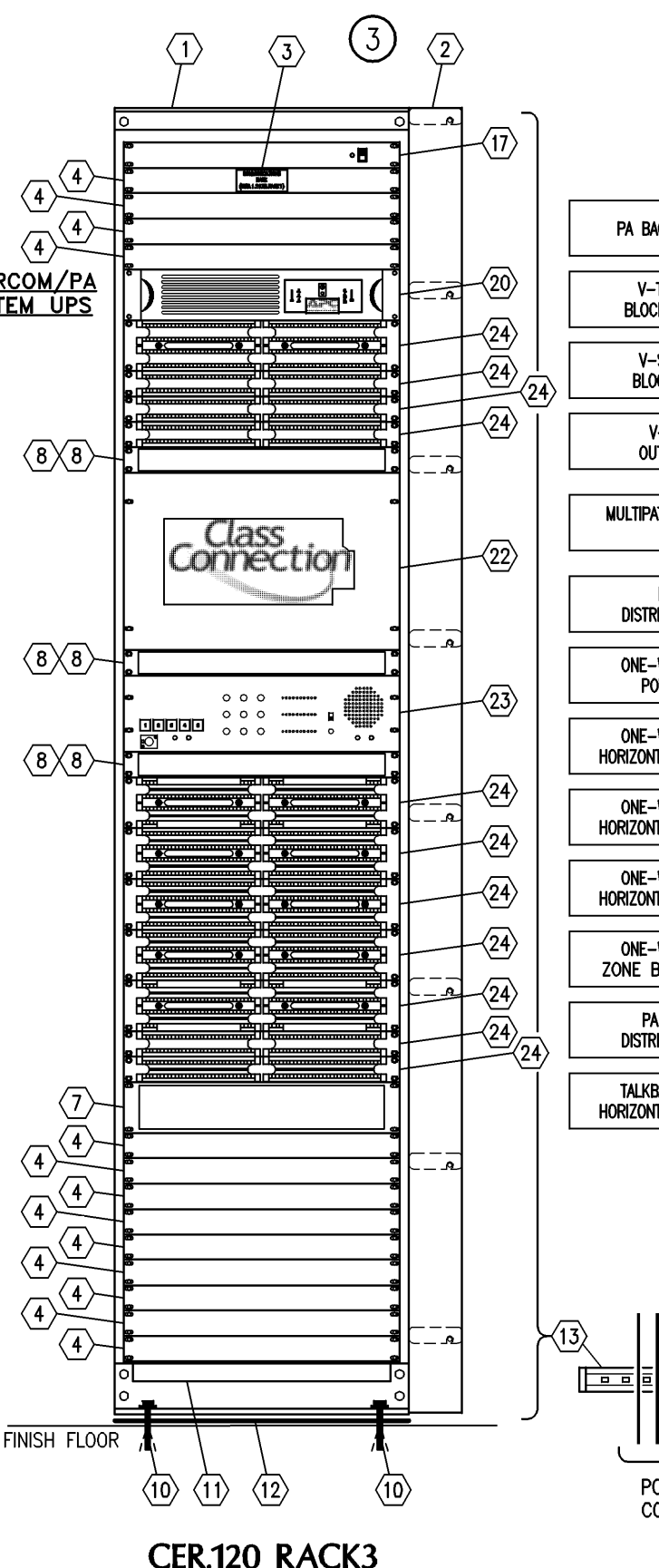
- 1) STANDARD 7'-6" HIGH X 19" WIDE ALUMINUM FLOOR MOUNT RACK WITH UNIVERSAL 5/8", 5/8", 1/2" ALTERNATING HOLE PATTERN FRONT AND BACK, AND BLACK BAKED ENAMEL FINISH, CHATSWORTH 40353-705. PROVIDE WITH GROUND TERMINAL BLOCK, CHATSWORTH 08009-001.
- 2) DOUBLE SIDED VERTICAL CABLE MANAGER WITH INTEGRAL HINGED FRONT DOOR/COVER, SIZE 3.65" X 7'-6", COLOR BLACK, CHATSWORTH 'CCS' 30161-705.
- 3) IDENTIFICATION TAG AT TOP OF RACK. SEE "TYPICAL COMMUNICATIONS RACK ENGRAVED TAG DETAIL".
- 4) VOICE WIRING BLOCK TAG. SEE "TYPICAL VOICE WIRING BLOCK ENGRAVED TAG DETAIL".
- 5) ONE RACK SPACE BLANK FILLER PLATE, COLOR BLACK, CHATSWORTH 30026-701.
- 6) TWO RACK SPACE HINGED HORIZONTAL CABLE MANAGER ON FRONT SIDE OF RACK, PANDUIT WMH2E.
- 7) ONE RACK SPACE HORIZONTAL CABLE MANAGER, PANDUIT WMH2E. PROVIDE CABLE MANAGER ON FRONT AND REAR OF RACK IN ALL LOCATIONS INDICATED.
- 8) CONCRETE FLOOR RACK MOUNTING KIT, CHATSWORTH 40804-001.
- 9) RACK BASE DUST COVER, BLACK ENAMEL FINISH, CHATSWORTH 41050-719.
- 10) RACK ISOLATION KIT, CHATSWORTH 10005-019.
- 11) 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)
- 12) 48 PORT CATEGORY 6 HORIZONTAL PATCH PANEL (HPP), SEE "DATA SINGLE LINE CONFIGURATION DIAGRAM".
- 13) 24 PORT PRE-CONNECTORIZED VOICE BACKBONE PATCH PANEL. SEE "VOICE SINGLE LINE CONFIGURATION DIAGRAM". PROVIDE TWO PANDUIT WMH1 CABLE BARS ON BACK OF RACK, STRAP 25 PAIR VOICE CABLES TO CABLE BARS.
- 14) RACKMOUNT POWER SURGE SUPPRESSOR, PANAMAX "POWERMAX RACKM" GRM060, COLOR BLACK, PROVIDE WITH 6 AC RECEPTABLES ON BACK OF UNIT AND 12" POWER CORD.
- 15) 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.
- 16) 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.
- 17) 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.
- 18) SCS: PROVIDE AMERICAN POWER CONVERSION UNINTERRUPTIBLE POWER SUPPLY (UPS) SUA2200RM2 (2 RACK UNITS HIGH) 2200 VA (QUANTITY THREE ONE FOR DATA EQUIPMENT, ONE FOR SECURITY SYSTEM, AND ONE FOR INTERCOM/PA SYSTEM). RACK MOUNT AND ROUTE POWER CORDS IN RACK MOUNTED WIRE MANAGEMENT FROM POWER SOURCE RECEPTACLE TO UPS AND FROM UPS TO SERVING EQUIPMENT.
- 19) SCS: PROVIDE IP SECURITY SYSTEM HEADEND NETWORK VIDEO RECORDER (NVR).
- 20) INTERCOM/PA SYSTEM HEADEND CHASSIS. SEE "INTERCOM/PA 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.
- 21) INTERCOM/PA SYSTEM PROGRAM DISTRIBUTION PANEL. SEE "INTERCOM/PA 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.
- 22) INTERCOM/PA WIRING BLOCKS. SEE "INTERCOM/PA SINGLE LINE CONFIGURATION DIAGRAM".



CER.120 RACK1



CER.120 RACK2



CER.120 RACK3

COMMUNICATIONS RACK ELEVATIONS

SCALE: 1" = 1'-0"

GRAPHIC SCALE: 1" = 1'-0"

GRAPHIC SCALE: 1" = 1'-0"

GRAPHIC SCALE: 1" = 1'-0"

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