

LOW VOLTAGE SYSTEM LEGEND

Ⓢ SPEAKER - CEILING MOUNTED. "s" INDICATES LOCAL PAGING SYSTEM SPEAKER VOLUME CONTROL. CONNECT SPEAKERS SO THAT VOLUME IS CONTROLLED BY $\$V_{Ca}$. CONNECT COMPLETE TO EXISTING HOSPITAL'S PAGING SYSTEM VIA 16AWG2 NON-PLENUM CONDUCTOR.

$\$V_{Ca}$ PAGING SYSTEM VOLUME CONTROL WITH BYPASS RELAY. "s" INDICATES LOCAL PAGING SYSTEM SPEAKER VOLUME CONTROL. PROVIDE 2 GANG FLUSH BOX WITH 1 GANG RAISED COVER WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING - STUB AND BUSH.

TV TELEVISION OUTLET - CEILING MOUNTED OR WALL MOUNTED AT 78" AFF UNLESS OTHERWISE NOTED. PROVIDE 2 GANG FLUSH BOX WITH 1 GANG RAISED COVER WITH 1" CONDUIT TO ABOVE FINISHED CEILING - STUB AND BUSH. PROVIDE NEW CATV OUTLET TO MATCH EXISTING TYPE AND INSTALL (1) RG-6 COAX CABLE AND (1) CAT6 CABLE FOR NURSE CALL PER OUTLET TO EXISTING NETWORK CABLE TAP. CONNECT EACH CABLE AT OUTLET AND AT NETWORK CABLE TAP. SUPPORT CABLES USING J-HOOKS 3'-0" ON CENTER IN ROOMS AND TRANSITION TO CONDUIT THROUGH ROOM WALL AND INTO CABLE TRAY IN THE CORRIDOR. TEST COMPLETE INSTALLATION IN ACCORDANCE WITH VA STANDARDS. COORDINATE WORK WITH VA ENGINEERING DEPARTMENT.

CA CABLE TV DISTRIBUTION AMPLIFIER (MATCH EXISTING FACILITY TYPE) - WALL MOUNTED, CONNECT TO 120V-10 DUPLEX RECEPTACLE.

LOW VOLTAGE SYSTEM NOTES:

LV1. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL INFORMATION.

LV2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

LV3. CONTRACTOR SHALL PROVIDE DEVICES, CABLING, TESTING, AND TERMINATIONS. TEST COMPLETE INSTALLATION IN ACCORDANCE WITH VAMC STANDARDS.

LV4. CONTRACTOR SHALL VERIFY ALL BACKBOX SIZES WITH VA COR AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.

TELECOMMUNICATIONS LEGEND

D TELECOMMUNICATIONS OUTLET "TCO" - 4-PORT - MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS OUTLET DETAILS ON SUBSEQUENT DRAWING FOR REQUIREMENTS.

B TELECOMMUNICATIONS OUTLET "TCO" - 2-PORT - MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS OUTLET DETAILS ON SUBSEQUENT DRAWING FOR REQUIREMENTS.

F TELECOMMUNICATIONS OUTLET "TCO" - MOUNTED IN FURNITURE UNLESS OTHERWISE NOTED. REFER TO TELECOMMUNICATIONS OUTLET DETAILS ON SUBSEQUENT DRAWING FOR REQUIREMENTS.

W TELEPHONE OUTLET - SINGLE PORT - MOUNTED AT 48" AFF UNLESS OTHERWISE NOTED.

MGA MEDICAL GAS ALARM PANEL OUTLET - SINGLE PORT - COORDINATE MOUNTING HEIGHT WITH MC.

TCO TELECOMMUNICATIONS OUTLET "TCO" - ROUGH-IN ONLY (BACKBOX AND CONDUIT STUBBED TO ABOVE FINISHED CEILING).

WA WIRELESS ACCESS OUTLET - MOUNTED ABOVE FINISHED CEILING.

18x4 18"W x 4"D (MINIMUM SIZE) CABLE TRAY WIRE MANAGEMENT SYSTEM. MOUNTED ABOVE ACCESSIBLE CEILING. COORDINATE LOCATION WITH OTHER TRADES. MAINTAIN 6" WORKING CLEARANCE ABOVE AND BELOW CABLE TRAY AT ALL LOCATIONS.

TELECOMMUNICATIONS SYSTEM NOTES:

T1. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL INFORMATION.

T2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

T3. CONTRACTOR SHALL PROVIDE DEVICES, CABLING, TESTING, AND TERMINATIONS. TEST COMPLETE INSTALLATION IN ACCORDANCE WITH VAMC STANDARDS.

T4. CONTRACTOR SHALL TERMINATE TCO CABLING IN TELECOMMUNICATIONS ROOM #3D-130 ON THE THIRD FLOOR SOUTH WING AND TELECOMMUNICATIONS ROOM #4C-140 ON THE FOURTH FLOOR NORTH WING.

PROJECT COORDINATION NOTES:

A. THIS PROJECT CONSISTS OF MULTIPLE TRADES OF WORK PERFORMED WITHIN AN EXISTING BUILDING AND A BUILDING ADDITION, ALL OF WHICH ALLOWS VERY LITTLE PERMISSIBLE RANGE OF VARIATION. THE CONTRACTOR SHALL TAKE CAREFUL CONSIDERATION WITH THE COORDINATION AND INSTALLATION OF THE MULTITUDE OF NEW SYSTEMS WHILE ALSO ACCOMMODATING ANY EXISTING SYSTEMS TO REMAIN.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES ASSOCIATED WITH THIS PROJECT AND ISSUING COORDINATION PLANS PRIOR TO COMMENCEMENT OF EACH PHASE OF CONSTRUCTION.

C. THE COORDINATION DRAWINGS SHALL ILLUSTRATE ALL SYSTEMS IN PLACE. NO EXCEPTIONS! THE CONTRACTOR SHALL SHOW ALL NECESSARY OFFSETS, TRANSITIONS, ETC. AS REQUIRED IN ORDER TO ACCOMMODATE CONDITIONS IDENTIFIED IN THE FIELD.

D. IF CONFLICTS ARE IDENTIFIED DURING THE DEVELOPMENT OF COORDINATION PLANS, THE CONTRACTOR SHALL NOTIFY THE VA COR, ARCHITECT, AND/OR ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THE PROJECT PLANS.

E. A COMPLETED SET OF COORDINATION PLANS ISSUED FOR REVIEW SHALL CONFIRM THAT THE CONTRACTOR FULLY UNDERSTANDS THE PROJECT CONSTRAINTS AND ALL KNOWN CONFLICTS HAVE BEEN ADDRESSED.

NURSE CALL SYSTEM LEGEND

NC NURSE CALL TERMINAL CABINET - TYPE TO MATCH EXISTING BUILDING NURSE CALL SYSTEM. PROVIDE SYSTEM ENCLOSURE WITH POWER SUPPLY, CONTROL MODULE, AND TERMINATION BOARD AS NECESSARY TO PROVIDE FUNCTIONS AS INDICATED ON TECHNOLOGY PLANS. SURFACE MOUNT AT 48" AFF AT LOCATION AS INDICATED AND PROVIDE PHENOLIC LABEL STATING SCG ADDITION - NURSE CALL SYSTEM. VERIFY EXACT SIZES OF ENCLOSURE WITH NURSE CALL SYSTEM VENDOR. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

T PULL CORD TOILET/SHOWER STATION - MOUNTED AT 24" AFF AT TOILETS/60" IN SHOWERS INTO 4" SQ. x 2 1/2" MIN. DEPTH BOX FITTED WITH 1-GANG RAISED PLASTER RING.

AN ANNUNCIATOR - MOUNTED AT 48" AFF AT RECEPTION DESK INTO BOX AS REQUIRED BY MANUFACTURER.

DL DOME LIGHT - VISUAL 4-BULB - WALL MOUNT AT 7'-6" OR CEILING MOUNT INTO 4" SQ. x 2 1/2" MIN. DEPTH BOX FITTED WITH 1-GANG RAISED PLASTER RING.

M MASTER STATION - DESK MOUNTED AT RADIOLOGY RECEPTION DESK, TYPE AS EXISTING.

NURSE CALL SYSTEM NOTES:

N1. CONTRACTOR SHALL PROVIDE ALL NURSE CALL SYSTEM COMPONENTS (ROUGH-IN, BACKBOX, DEVICES, CONDUITS, WIRING, ETC.) FOR A COMPLETE SYSTEM. PROVIDE 3/4" MINIMUM SIZE CONDUIT FROM DEVICES STUBBED TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING. THE NURSE CALL SYSTEM SHALL BE FROM A SINGLE MANUFACTURER (UL 1069 LISTED). SUBMIT ALL NURSE CALL DEVICES WITH SHOP DRAWINGS SUBMITTAL.

N2. MOUNT DEVICES AT MOUNTING HEIGHTS LISTED ABOVE UNLESS OTHERWISE NOTED ON THE FLOOR PLANS. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.

N3. CONTRACTOR SHALL VERIFY ALL BACKBOX SIZES WITH VA COTR AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.

N4. CONTRACTOR SHALL RETAIN SOUNDCOMM TO PROVIDE DETAILED SYSTEM DRAWINGS NECESSARY FOR SYSTEM INSTALLATION.

SECURITY SYSTEM LEGEND

SCP SECURITY CONTROL PANEL - SOFTWARE HOUSE #1-STAR-PRO SECURITY SYSTEM (TYCO #STAR080W-64ANP5) PANEL AT LOCATION AS INDICATED ON SECURITY PLAN. PROVIDE PANEL POWER SUPPLY AND LOCK POWER SUPPLY. PANEL SHALL ACCOMMODATE UP TO 16 DOORS WITH FUTURE EXPANSION CAPABILITY. REFER TO SECURITY SYSTEM RISER DIAGRAM FOR ADDITIONAL INFORMATION.

CR CARD READER - TYPE AS EXISTING. OPERATES MAGNETIC LOCKS, ELECTRIC STRIKES, ELECTRIFIED LOCKSET, AUTOMATIC DOOR, ETC. CONTRACTOR SHALL PROVIDE 2-GANG BOX WITH STAINLESS STEEL BLANK COVER/PLATE MOUNTED AT 48" AFF.

EH ELECTRIC HINGE - 1224VDC. INCLUDES REQUEST-TO-EXIT OUTPUT CONTACTS, DOOR POSITION SWITCH, AND 4'-0" CABLE. FAILSAFE OPERATING MODE. FURNISHED AND CONNECTED BY CONTRACTOR.

DC DOOR CONTACTS - MONITORS DOOR POSITION. RECESS MOUNTED AT TOP OF DOOR AND DOOR FRAME. CONTRACTOR SHALL PROVIDE AND CONNECT. CONTRACTOR SHALL FURNISH DOOR PREPARED TO RECEIVE DOOR CONTACTS.

AM AUTHENTICATION MODULE - HID PIVCLASS M2000 SERIES- MOUNTED ABOVE FINISHED CEILING ON SECURED SIDE OF DOOR OR REMOTELY MOUNTED IN TELECOMM. ROOM. CONNECT AS INDICATED ON SECURITY DETAILS. COORDINATE INSTALLATION WITH VENDOR.

PA PANIC ALARM BUTTON - WIRELESS - TYPE AS EXISTING - MOUNTED TO UNDERSIDE OF DESK/COUNTER. RELOCATE AS INDICATED ON PLANS AND RECONNECT TO NEW SYSTEM.

ACD ACCESS CONTROLLED DOOR - CONTRACTOR SHALL PROVIDE ACCESS CONTROL DEVICES AND CONNECT DOOR COMPLETE PER MANUFACTURER'S WIRING DIAGRAMS. "F" INDICATES DOOR TYPE. REFER TO ACCESS CONTROLLED DOOR DETAILS FOR ADDITIONAL INFORMATION AND WORK REQUIREMENTS.

MD MOTION DETECTOR - MATCH EXISTING TYPE.

KS KEY SWITCH - MATCH EXISTING TYPE.

SS SHUNT SWITCH - MATCH EXISTING TYPE.

SC SECURITY CAMERA - AMERICAN DYNAMICS SPEEDDOME OPTIMA SERIES. MATCH EXISTING FACILITY CAMERAS. FURNISHED AND INSTALLED BY CONTRACTOR. PROVIDE ALL POWER SUPPLIES, SURGE PROTECTOR, MOUNTS AND WIRING FOR POWER, DATA, AND CONTROL NECESSARY FOR A COMPLETE INSTALLATION.

SECURITY SYSTEM NOTES:

S1. PROVIDE MINIMUM SIZE BACKBOX AS REQUIRED FOR ALL OF THE ABOVE SECURITY DEVICES AND INSTALL IN 3/4" MINIMUM COMPLETE CONDUIT SYSTEM TO JUNCTION BOX ABOVE FINISHED CEILING. REFER TO THE "ACCESS-CONTROLLED DOOR DETAIL" ON THE TECHNOLOGY DETAILS DRAWING FOR ADDITIONAL INFORMATION.

S2. REFER TO SPECIFICATIONS DIVISION 28 FOR FURTHER DETAILS REGARDING THE SECURITY SYSTEM.

S3. MOUNT DEVICES AT MOUNTING HEIGHTS LISTED ABOVE UNLESS OTHERWISE NOTED ON THE FLOOR PLANS. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.

S4. SECURITY SYSTEM EQUIPMENT AND WIRING SHALL BE PROVIDED BY CONTRACTOR, UNLESS OTHERWISE NOTED.

S5. CONTRACTOR SHALL VERIFY ALL BACKBOX SIZES WITH VAMC COR AND MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO ROUGH-IN.

WALL TYPE LEGEND

===== INDICATES EXISTING CONSTRUCTION

== INDICATES DEMOLITION

===== INDICATES NEW CONSTRUCTION

ABBREVIATIONS

AC ABOVE COUNTER AT 9" UNLESS OTHERWISE NOTED

AFC ABOVE FINISHED CEILING

AFF ABOVE FINISHED FLOOR

BC BELOW COUNTER AT 18" AFF UNLESS OTHERWISE NOTED

BFC BELOW FINISHED CEILING

CM CEILING MOUNTED

COR CONTRACTING OFFICERS REPRESENTATIVE

EC ELECTRICAL CONTRACTOR

EG EQUIPMENT GROUND

EOL END OF LINE

GC GENERAL CONTRACTOR

LV LOW VOLTAGE

MC MECHANICAL CONTRACTOR

NEC NATIONAL ELECTRICAL CODE

NF NOT FUSED

NIC NOT IN CONTRACT

OFE OWNER FURNISHED EQUIPMENT

TC TELECOMMUNICATIONS CONTRACTOR

TCC TEMPERATURE CONTROLS CONTRACTOR

TV TELEVISION - MOUNT TV OUTLET AND RECEPTACLE AT SAME HEIGHT ADJACENT TO ONE ANOTHER.

WP WEATHERPROOF ENCLOSURE - NEMA 4 TYPE

X EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, CONDUIT, ETC. - TO REMAIN

XB INDICATES EXISTING OUTLET, LIGHTING FIXTURE, CONDUIT, ETC. - TO BE REMOVED. PROVIDE BLANK COVER FOR OUTLET AND MAINTAIN CIRCUIT CONTINUITY.

XL NEW LOCATION OF EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, ETC.

XN EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, ETC. - TO BE REPLACED WITH NEW OF SPECIFIED TYPE

XR EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, CONDUIT, ETC. - TO BE REMOVED COMPLETE - MAINTAIN CIRCUIT CONTINUITY TO ADJACENT OUTLETS, EXTEND CONDUIT AND WIRING AS REQUIRED.

XRR EXISTING OUTLET, DEVICE, LIGHTING FIXTURE, ETC. - TO BE REMOVED AND REINSTALLED AT NEW LOCATION - EXTEND CONDUIT AND WIRING AS REQUIRED

VAMC VETERANS AFFAIRS MEDICAL CENTER

GENERAL LEGEND

1 CODED NOTE - "1" INDICATES NOTE NUMBER.

AC-1 MECHANICAL EQUIPMENT IDENTIFIER

1
1-E01
DETAIL REFERENCE - "1" INDICATES DETAIL NUMBER, "1-E01" INDICATED DRAWINGS NUMBER.

RR COLUMN GRID

A REVISION REFERENCE NUMBER

GENERAL TECHNOLOGY INSTALLATION NOTES:

- ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
- ALL NEW WALL MOUNTED ELECTRICAL DEVICES ARE TO BE INSTALLED FLUSH IN WALL UNLESS OTHERWISE NOTED. ALL ELECTRICAL CONDUIT SHALL BE CONCEALED BEHIND FINISHED WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED. THE COST TO CUT AND PATCH WALLS SHALL BE THE RESPONSIBILITY OF THE TRADE REQUIRING THE CUTTING.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS REQUIRED FOR ELECTRICAL WORK. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES.
- PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW OR RELOCATED WALL OR CEILING MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS.
- COORDINATE ALL SHUT-DOWNS OF EXISTING COMMUNICATIONS SYSTEMS WITH OWNER A MINIMUM OF FOURTEEN (14) WORKING DAYS IN ADVANCE. ALL SHUT-DOWNS SHALL OCCUR DURING WEEKENDS OR BETWEEN 8:00PM AND 7:00AM ON WEEKDAYS ("OFF-HOURS"). INCLUDE ALL PREMIUM TIME CHARGES IN BID.
- ALL NOISE GENERATING OPERATIONS, INCLUDING CUTTING OF CEILINGS, WALLS AND FLOORS, CORING, DRILLING, ETC. SHALL BE SCHEDULED DURING WEEKENDS OR BETWEEN 8:00PM AND 7:00AM ON WEEKDAYS ("OFF-HOURS"). INCLUDE ALL PREMIUM TIME CHARGES IN BID.
- ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE PHASING REQUIREMENTS OF THE PROJECT. ALL COSTS ASSOCIATED WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE BID SUBMITTAL.
- PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW OR RELOCATED WALL OR CEILING MOUNTED DEVICES WITH ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS.
- DEFINITION: "PROVIDE" - FURNISH, INSTALL AND CONNECT COMPLETE.
- PROJECT AND PHASING SCOPE LINES INDICATE WHERE GENERAL CONSTRUCTION BOUNDARIES OCCUR. ELECTRICAL WORK AND UTILITY TIE-INS MAY OCCUR OUTSIDE OF SCOPE LINES.

BID AND CONSTRUCTION FULLY SPRINKLERED

CONSULTANTS: 		KEY PLAN 		ARCHITECTS/ENGINEERS: ARCHITECTURAL PROJECT #18900 		TECHNOLOGY LEGEND 		Project Title Columbus VA Medical Center CHALMERS P. WYLIE ACC BUILD SPECIALTY CARE CENTER		Project Number 757-200		Office of Construction and Facilities Management					
BID AND CONSTRUCTION		AREA OF WORK		7850 Freeway Circle 440.243.2000 t		Cleveland, OH 44130 440.243.3305 f		Location 420 N. JAMES ROAD, COLUMBUS, OH 43219		Building Number 1		Department of Veterans Affairs					
Revisions		DATE		FREDRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYAL TON ROAD BROOKVIEW HTS., OHIO 44147 754.341.5888		M.P. LONG REGISTERED PROFESSIONAL ENGINEER STATE OF OHIO 12067		Approved: Project Director		Date 04/25/14		Checked MPL		Drawn CPC		Drawing Number T0.1 Dwg. 147 of 159	

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 one-eighth inch = one foot
 one-quarter inch = one foot
 three-eighths inch = one foot
 one-half inch = one foot
 three-quarters inch = one foot
 one inch = one foot
 one and one-half inches = one foot
 two inches = one foot
 three inches = one foot



three inches = one foot
 one and one-half inches = one foot
 one inch = one foot
 three-quarters inch = one foot
 one-half inch = one foot
 three-eighths inch = one foot
 one-quarter inch = one foot
 one-eighth inch = one foot

- TECHNOLOGY DEMOLITION CODED NOTES:**
- 1 EG SHALL REMOVE/RELOCATE TECHNOLOGY DEVICES ON EXTERIOR WALLS THAT ARE DESIGNATED TO BE REMOVED OR THAT INTERFERE WITH INSTALLATION OF NEW WALLS. DEVICES INDICATED ARE VIA RECORD DRAWINGS. ADDITIONAL DEVICES REQUIRING REMOVAL MAY BE PRESENT IN THE FIELD. FOR DEVICES BEING RELOCATED, PROVIDE CONDUIT AND WIRING (EXTENSIONS WHERE POSSIBLE OR NEW BACK TO SOURCE) AS NECESSARY TO RECONNECT DEVICES COMPLETE AT NEW LOCATION.
 - 2 REMOVE EXISTING CEILING MOUNTED TECHNOLOGY DEVICES DENOTED AS EXISTING TO REMAIN TO ACCOMMODATE NEW CEILING WORK. RE-INSTALL EXISTING TECHNOLOGY DEVICES AFTER CEILING WORK HAS BEEN COMPLETED. DEVICES INDICATED ARE VIA RECORD DRAWINGS. ADDITIONAL DEVICES REQUIRING REMOVAL MAY BE PRESENT IN THE FIELD.
 - 3 RELOCATE EXISTING NURSE CALL MASTER STATION TO NEW RADIOLOGY RECEPTION DESK. REMOVE OTHER EXISTING WALL MOUNTED TECHNOLOGY DEVICES COMPLETE BACK TO SOURCE.
 - 4 REMOVE EXISTING EXTERIOR, WALL-MOUNTED SECURITY CAMERA AND MAINTAIN FOR RE-USE ON NEW ADDITION EXTERIOR. REFER TO NEW SECURITY PLAN FOR ADDITIONAL INFORMATION AND WORK REQUIREMENTS.
 - 5 REMOVE EXISTING ACCESS CONTROL SECURITY DEVICES AT EXTERIOR DOOR COMPLETE BACK TO SOURCE.
 - 6 COORDINATE DEMOLITION OF DEVICES IN THIS AREA WITH PLANS FOR ALTERNATES #1 AND #2. DEMOLITION OF DEVICES IN THIS AREA IS NOT REQUIRED IF ALTERNATES #1 OR #2 ARE ACCEPTED.



- ELECTRICAL DEMOLITION NOTES**
- D1 ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, SPECIAL SYSTEMS OUTLETS, CONDUIT, WIRING ETC. THAT WILL NOT BE REUSED IN THE REMODELED INSTALLATION SHALL BE REMOVED UNLESS OTHERWISE NOTED. THIS DEMOLITION SHALL INCLUDE ALL ELECTRICAL ITEMS SHOWN ON THIS PLAN THAT ARE NOT DESIGNATED BY "X", "XR" OR "XRR" AND ALL OTHER ADDITIONAL ITEMS THAT ARE NOT SHOWN BUT THAT MUST BE REMOVED IN ORDER TO PRODUCE A NEAT, FINISHED, PROPERLY FUNCTIONING ELECTRICAL INSTALLATION. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING REUSED ELECTRICAL SYSTEMS COMPONENTS - PROVIDE ALL CONDUIT AND WIRING NECESSARY TO ACHIEVE THE SAME. THE CONTRACTOR SHALL FIELD VERIFY THE NATURE AND EXTENT OF ALL DEMOLITION WORK AND SHALL INCLUDE COST FOR THE SAME IN THE BID SUBMITTAL.
 - D2 ALL EXISTING REMOVED ELECTRICAL EQUIPMENT, DEVICES, ETC. THAT ARE NOT RETAINED BY THE OWNER SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.
 - D3 DASHED WALLS ON PLAN INDICATE EXISTING CONSTRUCTION TO BE REMOVED.
 - D4 REFER TO ELECTRICAL LEGEND FOR ALL SYMBOL DESIGNATIONS. NOTE SPECIAL ATTENTION TO SELECTED EXISTING DEVICES, WIRERAYS, ETC. MARKED XB, XRR OR XN, AND REMOVE/BLANK OFF, RELOCATE OR REPLACE THESE COMPONENTS AS REQUIRED.
 - D5 MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING ELECTRICAL SYSTEM COMPONENTS IN AREAS NOT BEING REMODELED UNLESS OTHERWISE NOTED. PROVIDE ALL CONDUIT AND WIRING EXTENSIONS NECESSARY TO ACHIEVE SAME.
 - D6 THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL DEMOLITION WORK WITH THE GENERAL AND MECHANICAL CONTRACTORS, AND SHALL DISCONNECT ALL REQUIRED CIRCUITS IN A TIMELY MANNER.

CONSULTANTS:

KEY PLAN

ARCHITECTS/ENGINEERS:

ARCHITECTURAL PROJECT # 18900

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Drawing Title
PARTIAL FIRST FLOOR TECHNOLOGY DEMOLITION PLAN

Approved: Project Director

Project Title
Columbus VA Medical Center CHALMERS P. WYLIE ACC BUILD SPECIALTY CARE CENTER

Project Number
757-200

Building Number
1

Location
420 N. JAMES ROAD, COLUMBUS, OH 43219

Date
04/25/14

Checked
MPL

Drawn
CPC

Drawing Number
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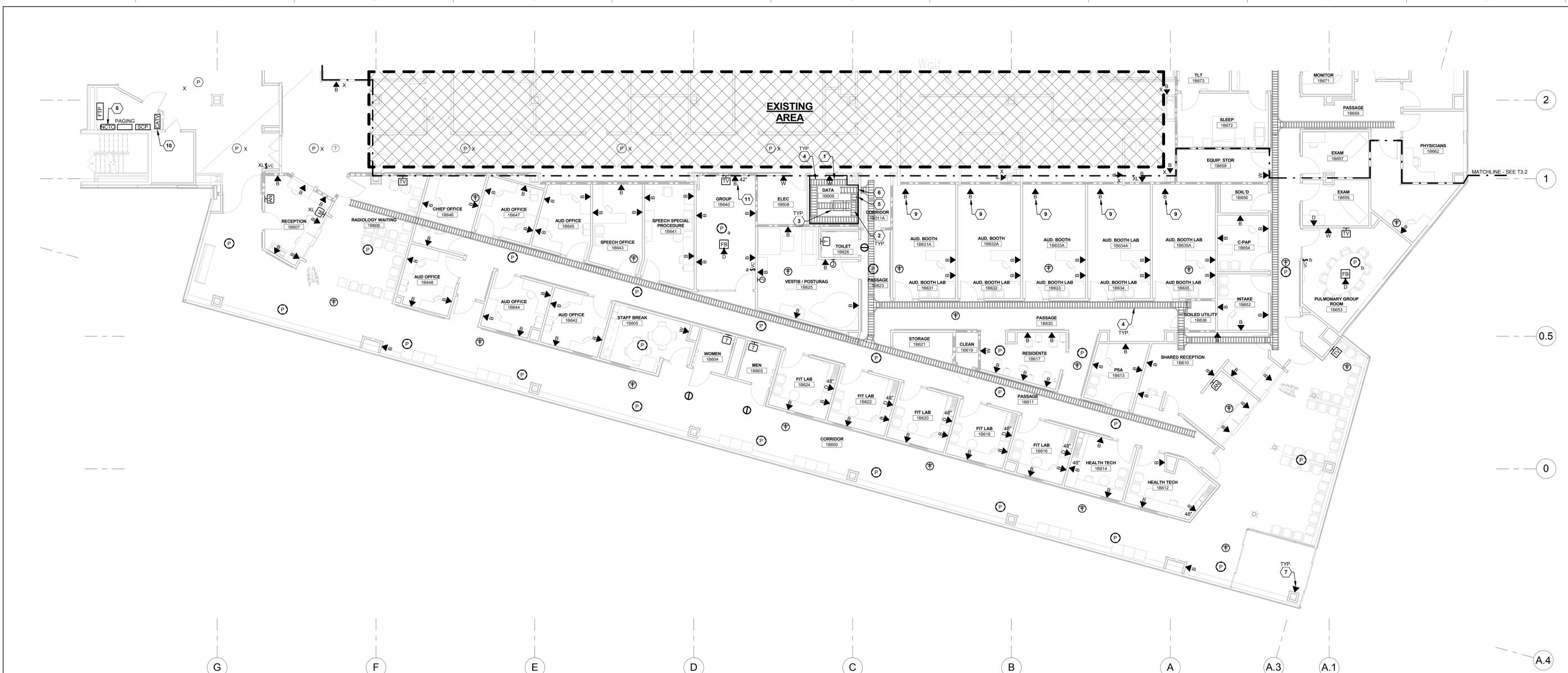
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Office of
Construction
and Facilities
Management

Department of
Veterans Affairs

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Revisions	Date

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 one inch = one foot
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 three inches = one foot



PARTIAL FIRST FLOOR SOUTH AREA TECHNOLOGY PLAN
 1/8" = 1'-0"
 0' 4' 8' 16' 32'

TECHNOLOGY GENERAL NOTES

- REFER TO THE ARCHITECTURAL PLANS FOR EQUIPMENT LAYOUT. CLOSELY COORDINATE THE EXACT LOCATION OF ALL OUTLETS AND DEVICES WITH ARCHITECTURAL ELEVATIONS. ADJUST LOCATIONS AND MOUNTING HEIGHTS WHERE NECESSARY TO PREVENT INTERFERENCE WITH FURNITURE, FIXED CASEWORK, EQUIPMENT, ETC. VERIFY ALL CHANGES PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS, MOUNTING HEIGHTS, AND CONNECTION REQUIREMENTS (DATA OUTLETS, ETC) WITH EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
- ALL NEW TECHNOLOGY UTILITIES IN CORRIDORS SHALL BE ROUTED AS HIGH AS POSSIBLE.
- REFER TO ARCHITECTURAL PLANS FOR EXACT PHASING AND ALTERNATE REQUIREMENTS.

MOTORIZED SHADES SYSTEM NOTE:

CONTRACTOR SHALL PROVIDE CATV CABLING AS DIRECTED BY SYSTEM VENDOR TO CONNECT MOTORIZED SHADE CONTROLS COMPLETE. SHADES, ELECTRONIC SHADE MOTORS, SWITCHES, INTERCONNECTION DEVICES, ETC. SHALL BE PROVIDED BY OTHERS. COORDINATE EXACT LOCATION OF DEVICES THAT REQUIRE CABLING WITH SYSTEM VENDOR. PROVIDE J-HOOKS PER SPECIFICATIONS AND ROUTE CABLING ABOVE FINISHED CEILING.

TECHNOLOGY CODED NOTES

- PROVIDE 3/4"D x 8"H, 2-HOUR FIRE-RETARDANT PLYWOOD BACKBOARD WITH FIRE-RETARDANT PAINT MOUNTED 12" AFF AROUND PERIMETER OF NEW TELECOMM ROOM.
- PROVIDE 19" x 7'-0" H 2-POST RACK WITH RMJ MARKINGS ON CHANNEL. BOLT RACK TO FLOOR PER SPECIFICATIONS. WITH HORIZONTAL AND VERTICAL CABLE MANAGEMENT. TELECOM NETWORK SWITCH AND UPS PROVIDED BY OWNER. TELECOM PATCH PANELS, PUNCHDOWN BLOCKS, FIBER OPTIC CONNECTORS, GCIBS, ETC. SHALL BE PROVIDED BY THE CONTRACTOR. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL INFORMATION.
- PROVIDE DOUBLE 6"W FULL HEIGHT VERTICAL CABLE MANAGERS ON BOTH SIDES OF EACH RACK.
- PROVIDE NEW 18"W x 4"H CABLE TRAY PER SPECIFICATIONS. CABLE TRAY IN TELECOM ROOM SHALL BE INDEPENDENTLY SUPPORTED AND MOUNTED 6" ABOVE TELECOM RACKS. COORDINATE CABLE TRAY ROUTE TO AVOID INTERFERENCE WITH DUCTWORK, PIPING, CONDUITS, LIGHTING FIXTURES, AND ALL OTHER SYSTEMS WITHIN CEILING SPACE.
- PROVIDE 20'L x 4"W x 1/4"D COPPER TECHNOLOGY GROUNDING BUSBAR WALL MOUNTED IN AVAILABLE SPACE IN TELECOM ROOM. BOND BUSBAR TO NEAREST BUILDING STEEL VIA EXOTHERMIC WELD (NEC 750.52). BOND ALL TELECOM EQUIPMENT RACKS, LADDER TRAYS, AND EQUIPMENT ENCLOSURES TO BUSBAR WITH #6AWG GREEN INSULATED STRANDED COPPER BONDING CABLE VIA 2-BOLT HOLE COMPRESSION LUG CONNECTOR. REFER TO TECHNOLOGY DETAILS FOR ADDITIONAL INFORMATION.
- PROVIDE 2 SETS OF (4) 4"x6" FIRE RATED PATHWAYS EACH CONSISTING OF ENCLOSED HEAVY GAUGE GALVANIZED STEEL PATHWAY CONTAINING BUILT-IN FIRE SEALING SYSTEM SUFFICIENT TO MAINTAIN THE HOURLY FIRE-RATING OF THE BARRIER BEING PENETRATED. THE SELF-CONTAINED SEALING SYSTEM SHALL AUTOMATICALLY ADJUST TO THE INSTALLED CABLE LOADINGS AND SHALL PERMIT THE CABLES TO BE INSTALLED, REMOVED, OR RETROFITTED WITHOUT THE NEED TO REMOVE OR REINSTALL THE FIRESTOP MATERIALS. THE PATHWAY SHALL BE UL LISTED AND TESTED TO THE REQUIREMENTS OF ASTM E814.
- PROVIDE CATS CABLE AT LOCATION AS INDICATED FROM POE SWITCH IN TELECOMMUNICATIONS CLOSET FOR RFID LOSS PREVENTION EQUIPMENT. COORDINATE EXACT REQUIREMENTS WITH VA COR PRIOR TO ROUGH-IN.

TECHNOLOGY CODED NOTES

- NURSE CALL SYSTEM SHALL BE PROGRAMMED SIMILAR TO NURSE CALL SYSTEM IN EXISTING BUILDING. SYSTEM SHALL FUNCTION SUCH THAT IF A CALL LIGHT WITHIN THE PROJECT AREA IS NOT RESPONDED TO WITHIN A SET PERIOD OF TIME AS DETERMINED BY THE FACILITY, THE CALL SHALL BE ESCALATED TO VA POLICE. PROVIDE ALL NECESSARY COMPONENTS, CABLING, ETC. TO ACCOMPLISH THIS FUNCTION AND PROVIDE FOR A COMPLETE INSTALLATION.
- PROVIDE DATA CONNECTION FOR AUDIOLOGY TESTING BOOTH. COORDINATE EXACT REQUIREMENTS WITH SYSTEM VENDOR PRIOR TO ROUGH-IN.
- PROVIDE NEW RF AMPLIFIER, 2-OUTPUT DIRECTIONAL TAP TO ACCEPT CATV BROADBAND SIGNAL AND FEED FUTURE COMMUNICATIONS CLOSETS, AND 8-OUTPUT DIRECTIONAL TAP TO SUPPLY NEW CATV OUTLETS. MOUNT TO ROOM'S NEW BACKBOARD TO MATCH EXISTING CATV INSTALLATIONS. CONNECT COMPLETE TO OUTPUT OF EXISTING CATV TAP IN THE "D-RISER" TELECOMMUNICATIONS CLOSET #18002. REFER TO KEY PLAN FOR LOCATION OF CLOSET. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL HARDWARE AND CABLING NECESSARY FOR A COMPLETE SYSTEM INSTALLATION, INCLUDING ADDITIONAL EQUIPMENT AS NECESSARY IF TAP IS UNAVAILABLE IN EXISTING CLOSET.
- VERIFY EXACT MOUNTING HEIGHT WITH VA COR.

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Architecture
 Planning
 Interior Design
 440.243.3305 f

ARCHITECTURAL PROJECT # 18900

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
 872 EAST 9270TH ROAD
 BROADVIEW HTS., OHIO 44147
 TEL: 440.360.9888

M.P. LONG
 59450
 PROFESSIONAL ENGINEER
 STATE OF OHIO
 12067

Drawing Title
PARTIAL FIRST FLOOR SOUTH AREA TECHNOLOGY PLAN

Approved: Project Director

Project Title
Columbus VA Medical Center CHALMERS P. WYLIE ACC BUILD SPECIALTY CARE CENTER

Location
 420 N. JAMES ROAD, COLUMBUS, OH 43219

Date
 04/25/14

Checked
 MPL

Drawn
 CPC

Project Number
 757-200

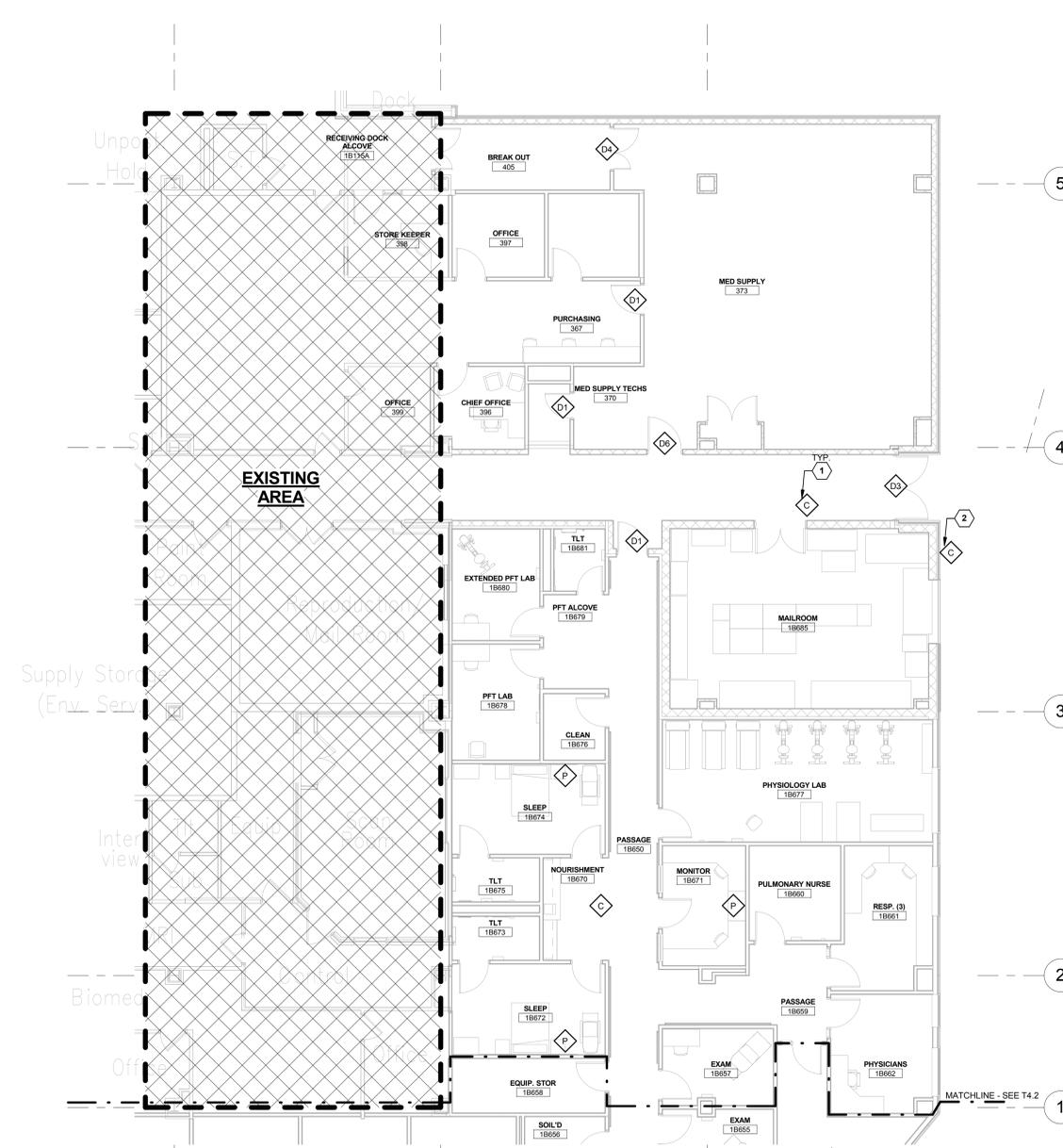
Building Number
 1

Drawing Number
T3.2
 Dwg. 151 of 159

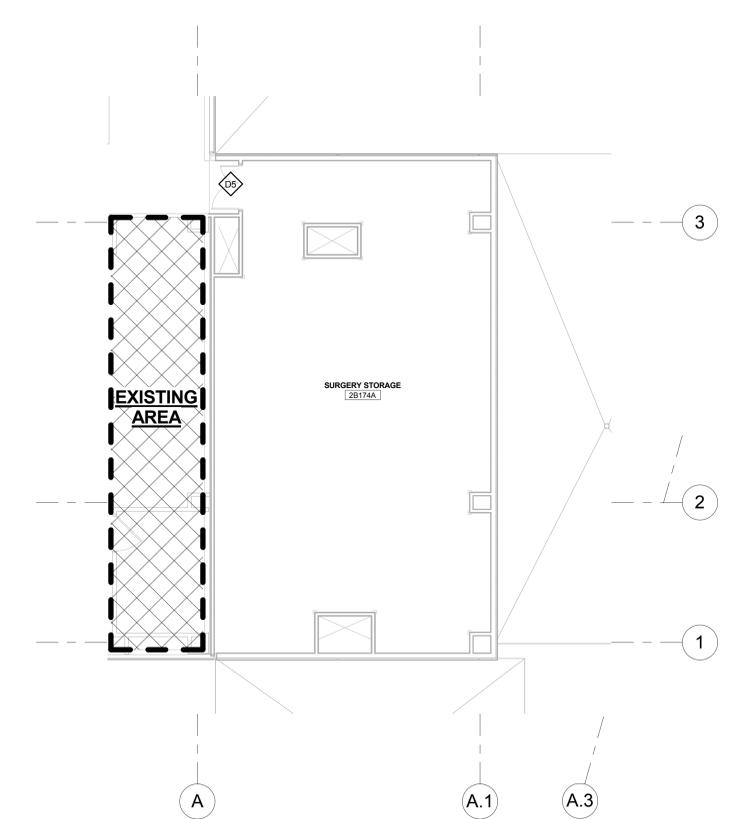
Office of
 Construction
 and Facilities
 Management

Department of
 Veterans Affairs

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 one-quarter inch = one foot
 three-quarters inch = one foot
 one inch = one foot
 one and one-half inches = one foot
 three inches = one foot



PARTIAL FIRST FLOOR EAST AREA SECURITY PLAN
 1/8" = 1'-0"
 0' 4' 8' 16' 32'



PARTIAL SECOND FLOOR SECURITY PLAN
 1/8" = 1'-0"
 0' 4' 8' 16' 32'

- SECURITY PLAN CODED NOTES**
- 1 ALL CAMERAS WITHIN THE PROJECT AREA SHALL BE CABLED BACK TO NEW LOW-VOLTAGE ROOM AND TO A NEW CEILING-MOUNTED PULLBOX. CONTINUE ROUTING CABLING FROM NEW PULLBOX BACK TO VA POLICE AND TERMINATE IN EXISTING DYE.
 - 2 PROVIDE NEW EXTERIOR CAMERA - TYPE TO MATCH EXISTING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH VA POLICE AND COR. CAMERA SHALL MONITOR SIDE OF THE BUILDING THAT IS SHIELDED FROM EXISTING CAMERA VIEW BY THE NEW ADDITION AND THE BULK OXYGEN STORAGE TANKS LOCATION.

BID AND CONSTRUCTION FULLY SPRINKLERED

BID AND CONSTRUCTION	04/25/14
Revisions	Date

CONSULTANTS:



ARCHITECTS/ENGINEERS:

ARCHITECTURAL PROJECT # 18900

CBLH DESIGN
 7850 Freeway Circle
 440.243.2000 t
 Cleveland, OH 44130
 440.243.3305 f

Architecture
 Planning
 Interior Design

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
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M.P. LONG
 53855
 PROFESSIONAL EXAM
 12067

Drawing Title
PARTIAL FIRST FLOOR EAST AND SECOND FLOOR SECURITY PLAN

Approved: Project Director

Project Title
Columbus VA Medical Center CHALMERS P. WYLIE ACC BUILD SPECIALTY CARE CENTER

Location
 420 N. JAMES ROAD, COLUMBUS, OH 43219

Date
 04/25/14

Checked
 MPL

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 CPC

Project Number
 757-200

Building Number
 1

Drawing Number
T4.1
 Dwg. 152 of 159

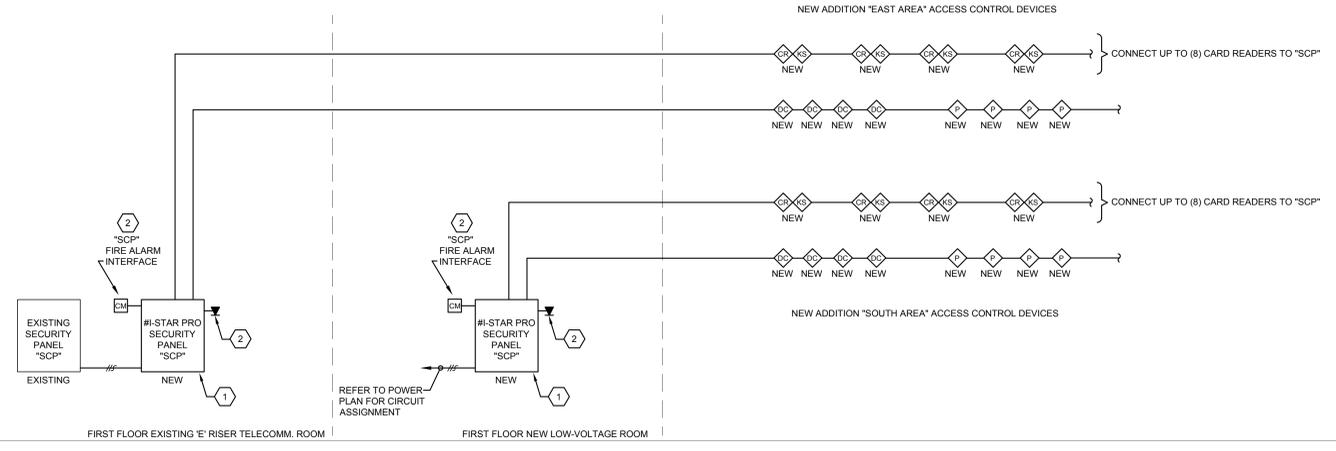
Office of
 Construction
 and Facilities
 Management

Department of
 Veterans Affairs

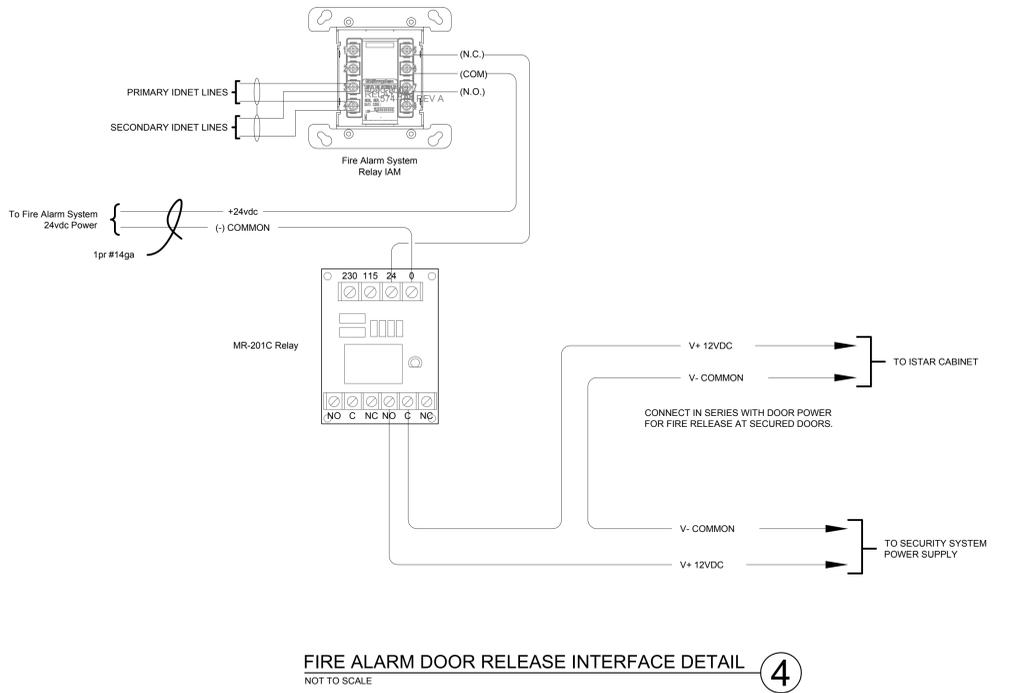
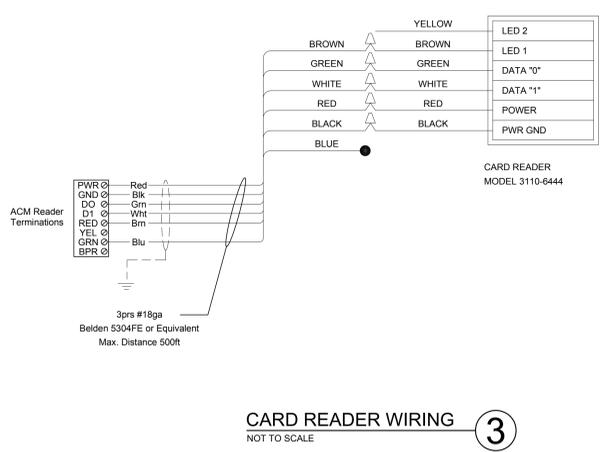
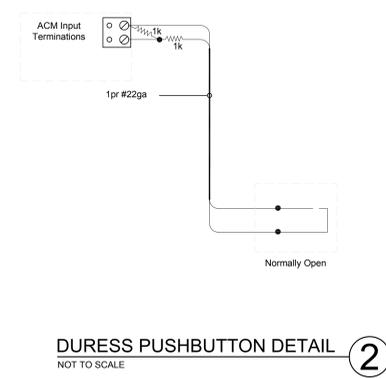
CODED NOTES:

1 PROVIDE NEW SOFTWARE HOUSE I-STAR-PRO SECURITY SYSTEM PANEL (TYCO #STAR008W-64ANPS) *SCP* AT LOCATION AS INDICATED ON POWER PLANS. CONNECT COMPLETE TO NEW 120V EMERGENCY *LIFE SAFETY* CIRCUIT INDICATED ON POWER PLANS. PROVIDE READER MODULES IN NEW *SCP* TO ACCOMMODATE UP TO (8) CARD READERS. ALLOW FOR FUTURE EXPANDABILITY TO (16) CARD READERS.

2 PROVIDE NEW FIRE ALARM INTERFACE AND HOSPITAL *NETWORK* INTERFACE FOR EACH *SCP* AS INDICATED.



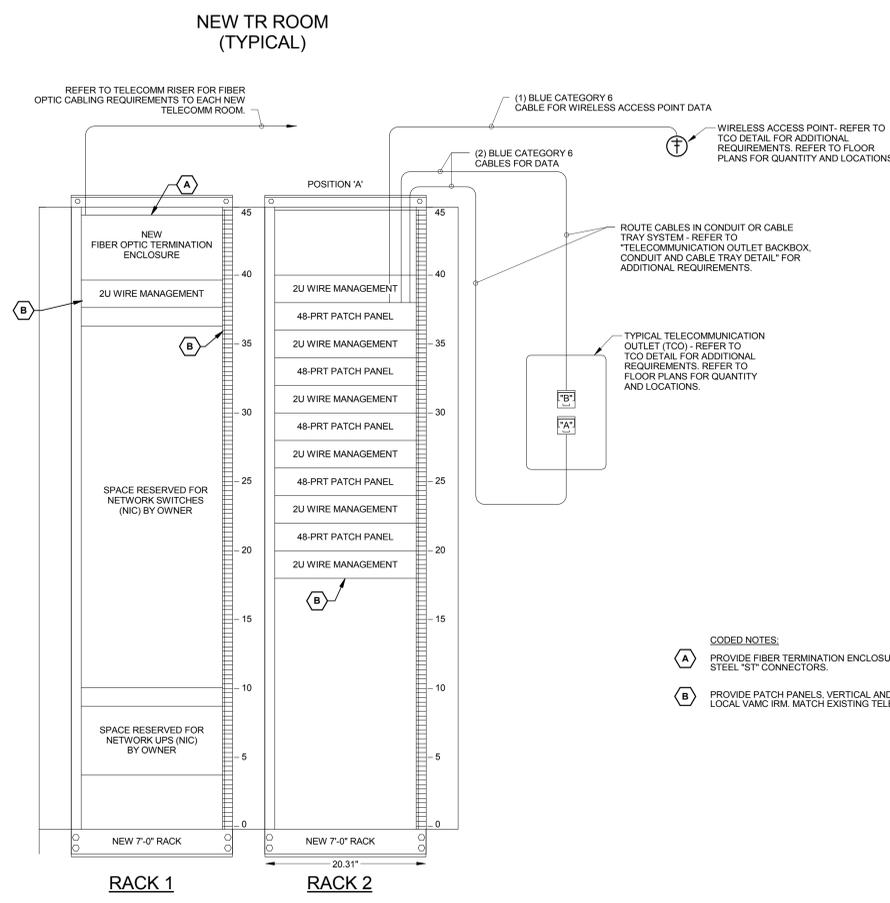
SECURITY SYSTEM RISER DIAGRAM
NOT TO SCALE



BID AND CONSTRUCTION FULLY SPRINKLERED

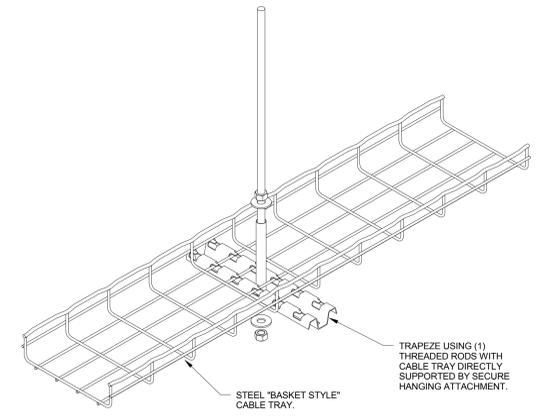
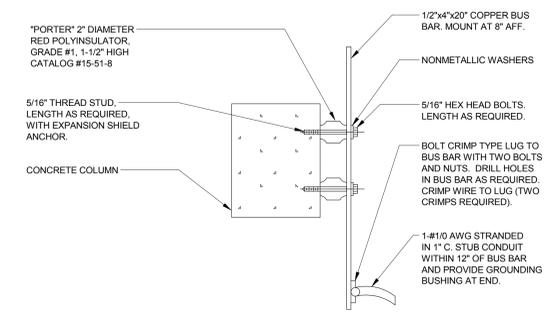
5/20/2013 10:55:57 AM z:\My Documents\12067 FFH_GF_inchthru.rvt Revisions BID AND CONSTRUCTION Date 04/25/14 Date	CONSULTANTS: 	KEY PLAN 	ARCHITECTS/ENGINEERS: ARCHITECTURAL PROJECT #18900 Architecture Planning Interior Design 7850 Freeway Circle Cleveland, OH 44130 440.243.2000 t 440.243.3305 f	 FREDRICK, FREDRICK & HELLER ENGINEERS, INC. 872 EAST ROYAL TOWN ROAD BROOKVIEW HTS., OHIO 44147 TEL: (440) 548-8888 FAX: (440) 548-8889 12067	Security System Riser Diagram and Details Approved: Project Director	Project Title Columbus VA Medical Center CHALMERS P. WYLIE ACC BUILD SPECIALTY CARE CENTER Location 420 N. JAMES ROAD, COLUMBUS, OH 43219 Date 04/25/14 Checked MPL Drawn CPC	Project Number 757-200 Building Number 1 Drawing Number T5.2 Dwg. 155 of 159	Office of Construction and Facilities Management
	VA FORM 08-6231							

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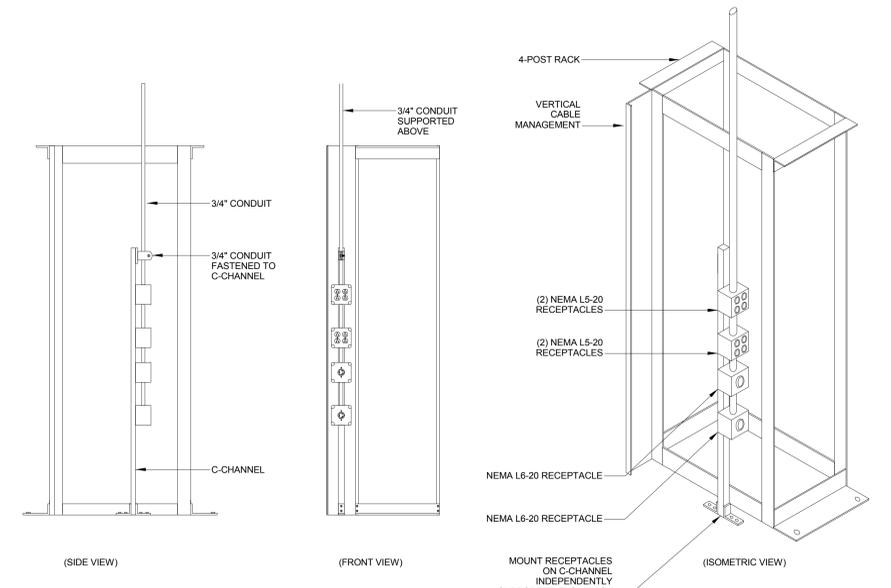


TELECOMMUNICATION ROOM - RACK DETAIL ④
 NOT TO SCALE

- CODED NOTES:**
- Ⓐ PROVIDE FIBER TERMINATION ENCLOSURE WITH CAPACITY FOR 72 "ST" TERMINATIONS. TERMINATE (24) MULTIMODE STRANDS WITH STAINLESS STEEL "ST" CONNECTORS.
 - Ⓑ PROVIDE PATCH PANELS, VERTICAL AND HORIZONTAL WIRE MANAGEMENT AS INDICATED. COORDINATE EXACT LOCATION AND CONFIGURATION WITH LOCAL VAVIC IRM. MATCH EXISTING TELECOMMUNICATIONS ROOM STANDARDS.



GENERAL NOTES:
 1. PROVIDE SUPPORT SPACING FOR THE FULL CABLE CAPACITY OF THE CABLE TRAY.



Revisions	Date
BID AND CONSTRUCTION	04/25/14

CONSULTANTS:



ARCHITECTS/ENGINEERS:

ARCHITECTURAL PROJECT # 18900

CBLH DESIGN

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Architecture
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 Interior Design

FREDRICK, FREDRICK & HELLER ENGINEERS, INC.

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M.P. LONG
 59450
 PROFESSIONAL EXAM
 12067

Drawing Title
TECHNOLOGY DETAILS - 1 OF 3

Approved: Project Director

Project Title
**Columbus VA Medical Center
 CHALMERS P. WYLIE ACC BUILD
 SPECIALTY CARE CENTER**

Location
 420 N. JAMES ROAD, COLUMBUS, OH 43219

Date
 04/25/14

Checked
 MPL

Drawn
 CPC

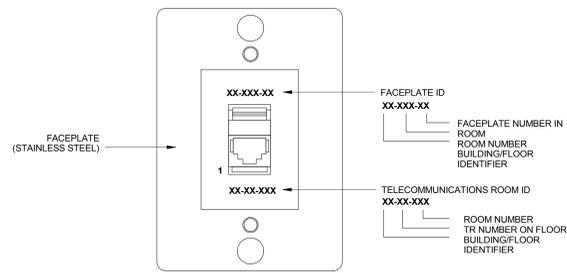
Project Number
 757-200

Building Number
 1

Drawing Number
T6.1
 Dwg. 156 of 159

Office of
 Construction
 and Facilities
 Management

Department of
 Veterans Affairs



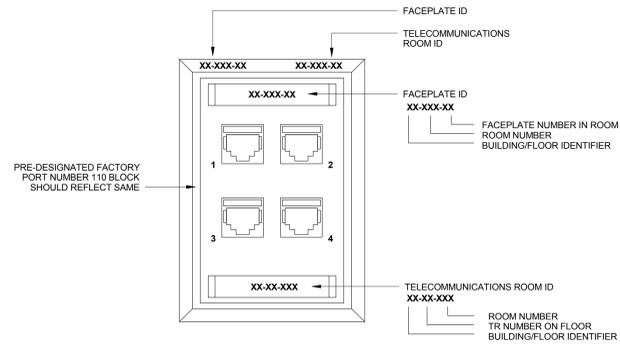
POSITION	JACK TYPE	JACK COLOR	CABLE TYPE	CABLE COLOR
1	CAT 6 RJ 45	WHITE	CAT 6	WHITE

NOTE: VERIFY CABLE COLOR, JACK COLOR, AND FACEPLATE ID STANDARDS WITH VA COR AND IT DEPARTMENT.

TYPE "W" FACEPLATE DETAIL (WALL PHONE VOICE OUTLET)

NOT TO SCALE

1



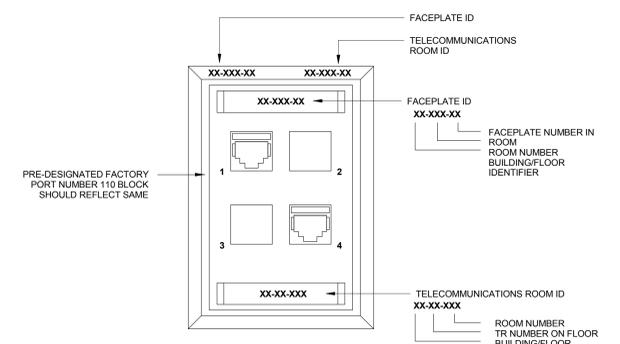
POSITION	JACK TYPE	JACK COLOR	CABLE TYPE	CABLE COLOR
1	CAT 6 RJ 45	BLUE	CAT 6	BLUE
2	CAT 6 RJ 45	WHITE	CAT 6	WHITE
3	CAT 6 RJ 45	BLUE	CAT 6	BLUE
4	CAT 6 RJ 45	WHITE	CAT 6	WHITE

NOTE: VERIFY CABLE COLOR, JACK COLOR, AND FACEPLATE ID STANDARDS WITH VA COR AND IT DEPARTMENT.

TYPE "D" FACEPLATE DETAIL (VOICE/DATA QUAD TCO)

NOT TO SCALE

2



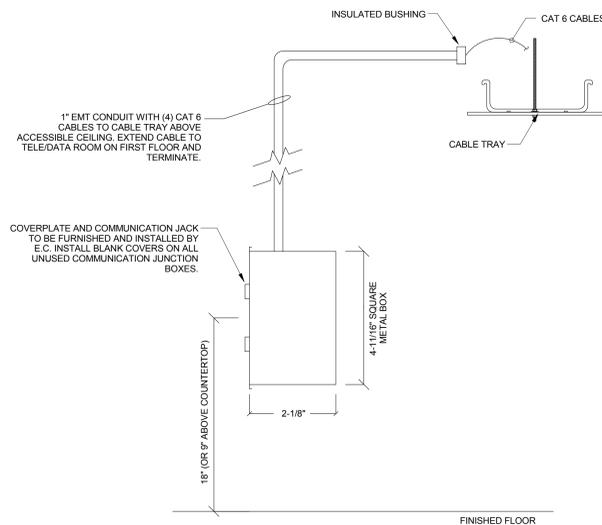
POSITION	JACK TYPE	JACK COLOR	CABLE TYPE	CABLE COLOR
1	CAT 6 RJ 45	BLUE	CAT 6	BLUE
2	BLANK	N/A	N/A	N/A
3	BLANK	N/A	N/A	N/A
4	CAT 6 RJ 45	BLUE	CAT 6	BLUE

NOTE: VERIFY CABLE COLOR, JACK COLOR, AND FACEPLATE ID STANDARDS WITH VA COR AND IT DEPARTMENT.

TYPE "B" FACEPLATE DETAIL (VOICE/DATA DUPLEX TCO)

NOT TO SCALE

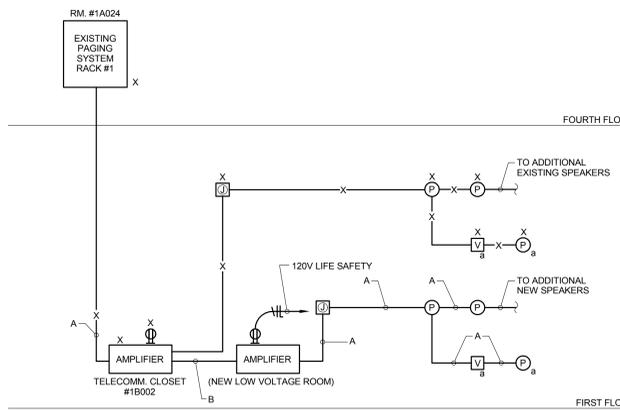
3



TELECOMMUNICATION OUTLET BACKBOX, CONDUIT AND CABLE TRAY DETAIL

NOT TO SCALE

4



PAGING SYSTEM CABLE LEGEND	
CABLE TYPE	DESCRIPTION
A	1 PAIR, #16 STRANDED COPPER
B	1 PAIR, #14 STRANDED COPPER

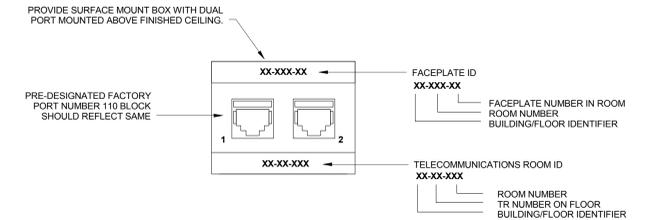
PAGING SYSTEM GENERAL NOTES:

- ALL PAGING SYSTEM CONDUIT SHALL BE 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
- VERIFY EXACT SYSTEM AND CABLE REQUIREMENTS WITH SYSTEM SUPPLIER PRIOR TO INSTALLATION. CABLE INDICATED IS FOR REFERENCE ONLY. PROVIDE WIRING DIAGRAM WITH SHOP DRAWINGS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

PAGING SYSTEM RISER DIAGRAM

NOT TO SCALE

5



POSITION	JACK TYPE	JACK COLOR	CABLE TYPE	CABLE COLOR
1	CAT 6 RJ 45	BLUE	CAT 6	BLUE
2	BLANK	N/A	N/A	N/A

NOTE: VERIFY CABLE COLOR, JACK COLOR, AND FACEPLATE ID STANDARDS WITH VA COR AND IT DEPARTMENT.

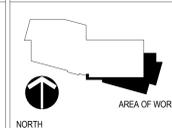
WIRELESS ACCESS POINT FACEPLATE

NOT TO SCALE

6

CONSULTANTS:

KEY PLAN



ARCHITECTS/ENGINEERS:

CBLH DESIGN
7850 Freeway Circle
440.243.2000 t

Architecture Planning Interior Design
Cleveland, OH 44130
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ARCHITECTURAL PROJECT # 18900

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BROADVIEW HTS., OHIO 44147
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M.P. LONG
59455
PROFESSIONAL ENGINEER
STATE OF OHIO
12067

Drawing Title
TECHNOLOGY DETAILS - 2 OF 3

Approved: Project Director

Project Title
**Columbus VA Medical Center
CHALMERS P. WYLIE ACC BUILD
SPECIALTY CARE CENTER**

Location
420 N. JAMES ROAD, COLUMBUS, OH 43219

Date: 04/25/14
Checked: MPL
Drawn: CPC

Project Number
757-200

Building Number
1

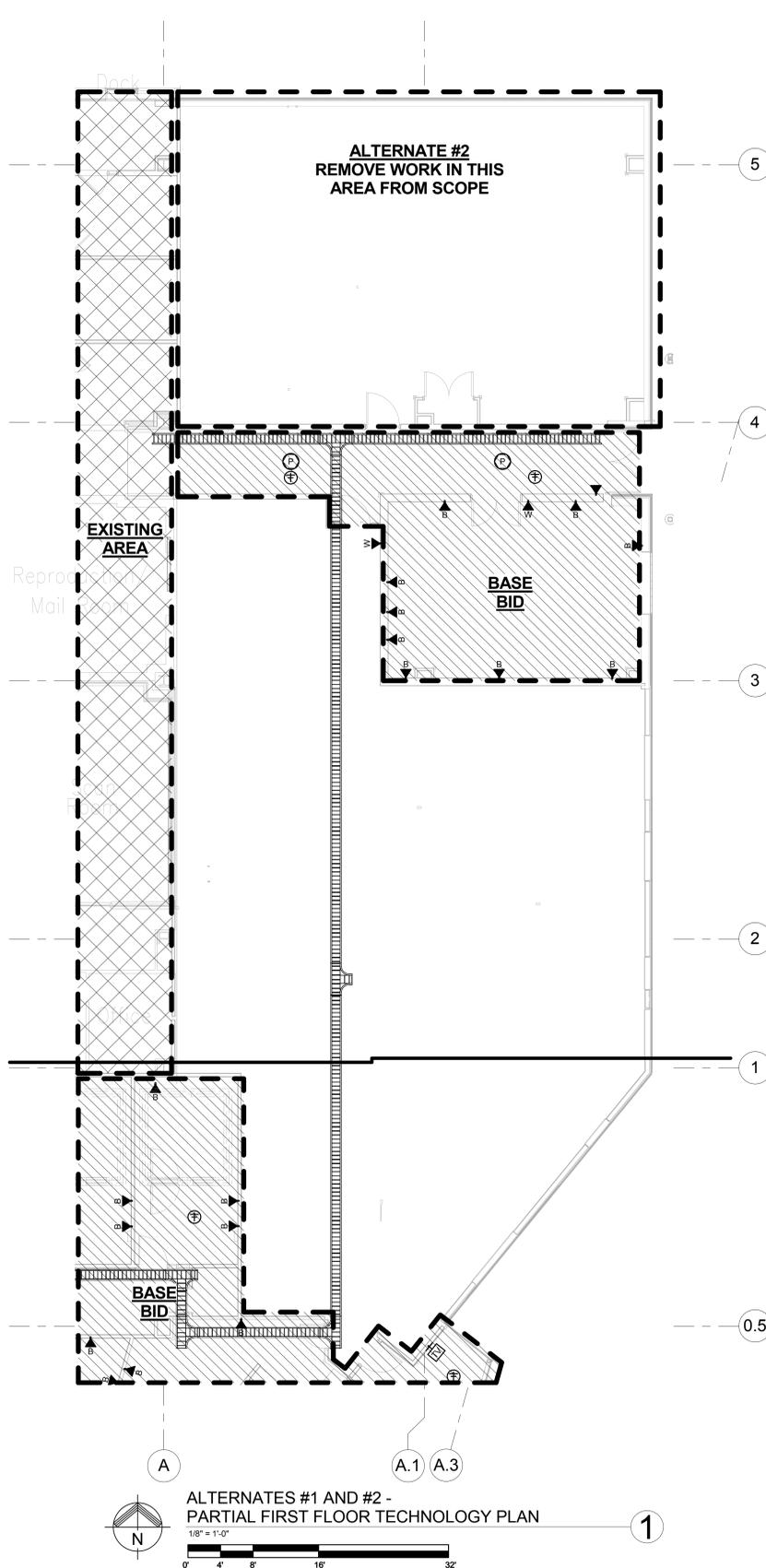
Drawing Number
T6.2

Dwg. 157 of 159

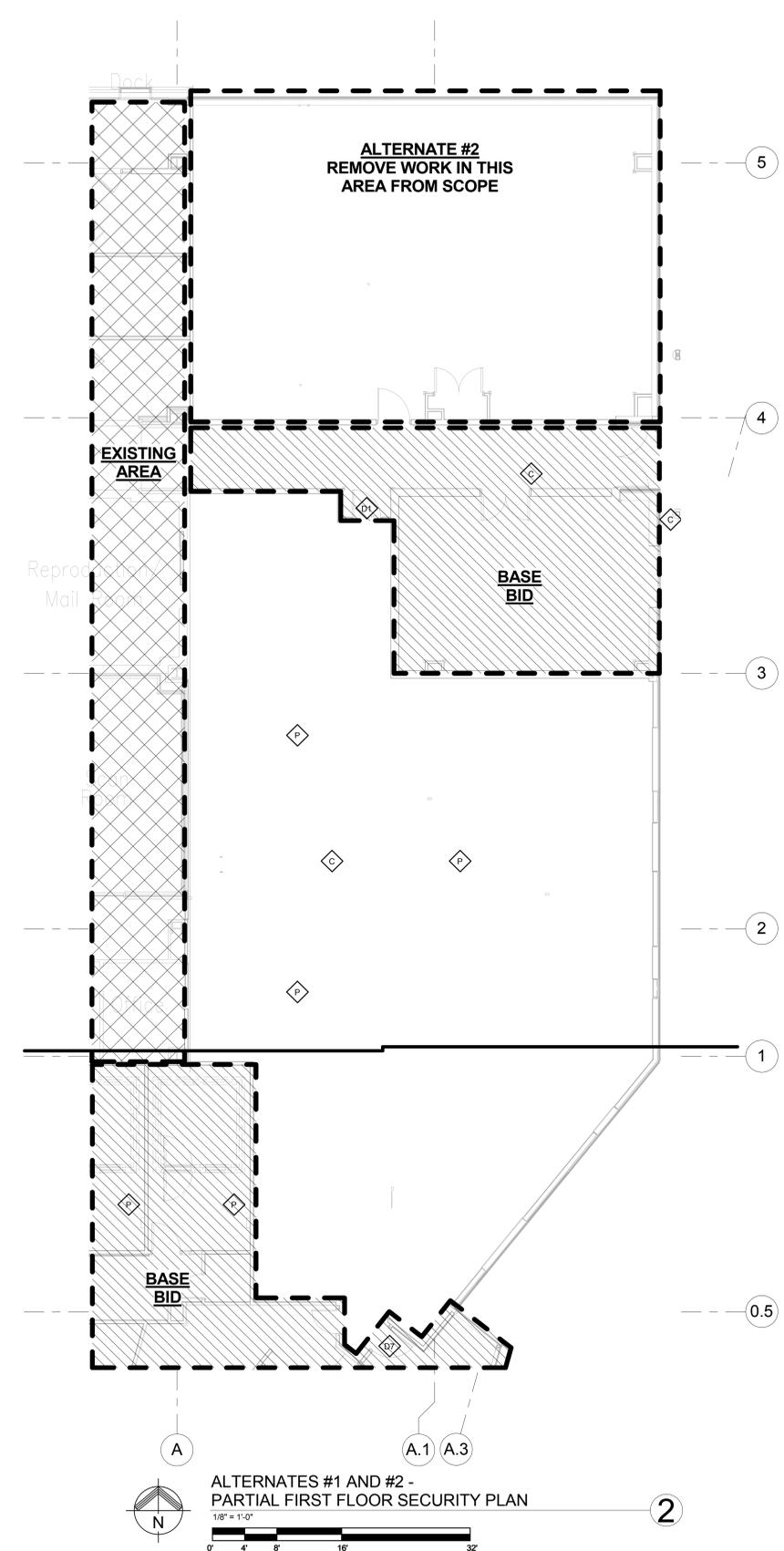
Office of
Construction
and Facilities
Management



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ALTERNATES #1 AND #2 - PARTIAL FIRST FLOOR TECHNOLOGY PLAN
 1/8" = 1'-0"



ALTERNATES #1 AND #2 - PARTIAL FIRST FLOOR SECURITY PLAN
 1/8" = 1'-0"

BID AND CONSTRUCTION FULLY SPRINKLERED

BID AND CONSTRUCTION	04/25/14
Revisions	Date

CONSULTANTS:



ARCHITECTS/ENGINEERS:
CBLH DESIGN
 Architecture Planning Interior Design
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FREDRICK, FREDRICK & HELLER ENGINEERS, INC.
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 BROADVIEW HTS., OHIO 44147
 TEL: 440.388.9888

Drawing Title
ALTERNATES #1 AND #2 - PARTIAL FIRST FLOOR TECHNOLOGY AND SECURITY PLAN
 Approved: Project Director

Project Title
Columbus VA Medical Center CHALMERS P. WYLIE ACC BUILD SPECIALTY CARE CENTER
 Location
 420 N. JAMES ROAD, COLUMBUS, OH 43219
 Date
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Project Number
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 Building Number
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 Drawing Number
T7.1
 Dwg. 159 of 159

Office of Construction and Facilities Management
 Department of Veterans Affairs