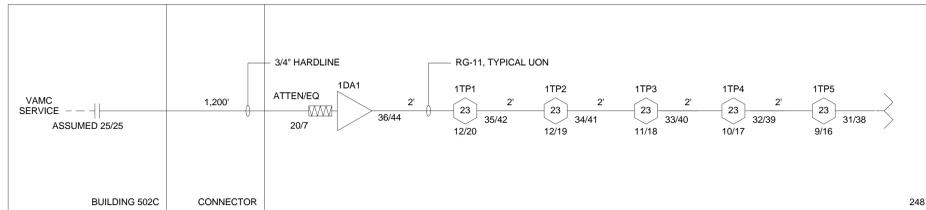


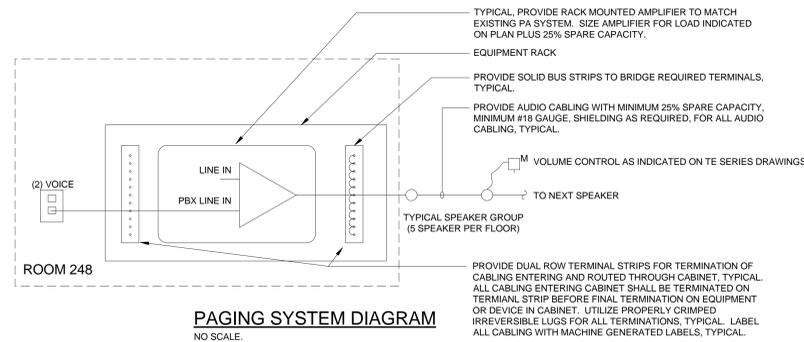
TAPS / SPLITTERS	PORT	1TP1	1TP2	1TP3	1TP4	1TP5
LOCATION		248	248	248	248	248
TERMINATIONS	1	120	218	128	130	136
	2	220	216	108	104	236
	3	114	112	106	230	134
	4	214	110	228	204	132
	5	118	212	208	101	234
	6	116	210	206	201	232
	7	TERM	TERM	TERM	TERM	TERM
	8	TERM	TERM	TERM	TERM	TERM



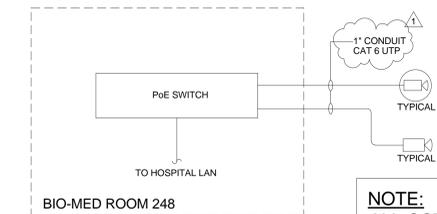
TECHNOLOGY MATV RISER
NO SCALE.

RISER DIAGRAM GENERAL NOTES:

- ALL MATV CABLES SHALL BE RUN SEPARATED FROM DATA, TELEPHONE AND PAGING CABLES AND SUPPORTED WITH "J-HOOKS" EVERY 5'-0" MAXIMUM.
- LEAVE ENOUGH SLACK IN HORIZONTAL CABLE TO ALLOW SWITCHING BETWEEN TAPS.
- ALL DROP CABLES SHALL BE HOMERUN BACK TO THEIR RESPECTIVE ROOM SERVICING THAT FACEPLATE. ALL DROP CABLE RUNS GREATER THAN 150 FEET SHALL UTILIZE RG-11 COAX. ALL DROP CABLE RUNS LESS THAN OR EQUAL TO 150 FEET SHALL UTILIZE RG-6 COAX.
- TERMINATE ALL UNUSED PORTS AND TAPS WITH 75 OHM TERMINATING RESISTORS.
- PROVIDE ATTENUATOR AND EQUALIZER IN EACH AMPLIFIER, SELECTED BASED ON INPUT SIGNAL LEVEL TO OBTAIN FLAT SIGNAL LEVEL AT RATED INPUT INTO INPUT STAGE.
- DIRECT CONNECT COMPONENTS OR PROVIDE 2 FOOT CONNECTION LOOP.
- MATV SYSTEM IS BASED ON ROUTING CABLES ALONG THE ROUTE OF THE CABLE TRAY AND RUNNING ABOVE ACCESSIBLE CEILING.



PAGING SYSTEM DIAGRAM
NO SCALE.



CCTV MOTORING SYSTEM DIAGRAM
NO SCALE.

NOTE:
ALL CCTV SYSTEM HARDWARE SHALL BE PROVIDED BY THE VA. PROVIDE BOXES, CONDUIT AND PULL STRINGS AS REQUIRED.

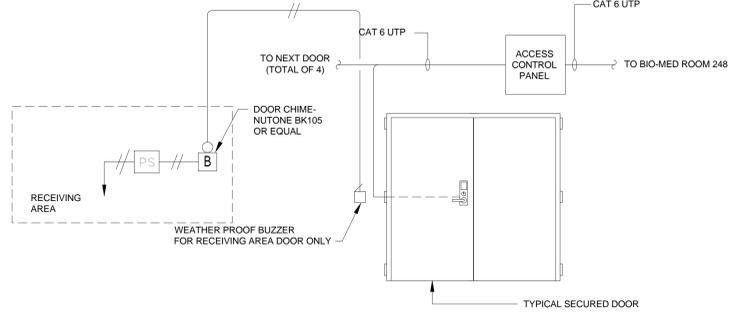
NOTE:

ALL TELECOMMUNICATIONS BUSBARS SHALL HAVE A LAMINATED IDENTIFICATION TAG PERMANENTLY AFFIXED DIRECTLY ABOVE THE BUSBAR STATING, "WARNING: TELECOMMUNICATIONS GROUNDING BUSBAR FOR DATA AND COMMUNICATIONS EQUIPMENT ONLY. NOT TO BE USED AS AN ELECTRICAL SYSTEMS GROUND. IF CONNECTORS OR CABLES SHOW SIGNS OF BECOMING LOOSE, OR REQUIRE REMOVAL, CONTACT VA IRM MANAGER IMMEDIATELY."

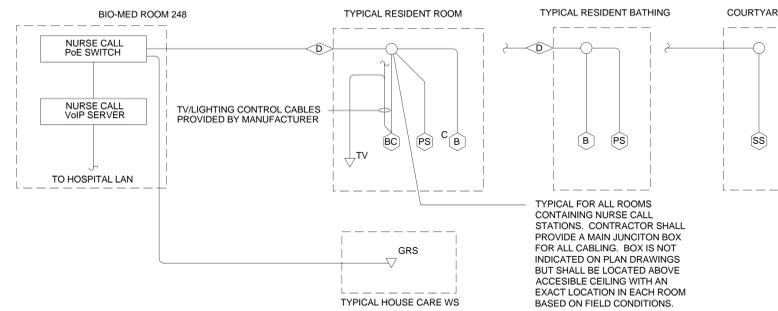
TECHNOLOGY GROUNDING DIAGRAM
NO SCALE.

RISER DIAGRAM GENERAL NOTES:

- ALL HORIZONTAL RUNS SHALL BE SUPPORTED WITH "J-HOOKS" EVERY 5'-0" MAXIMUM.
- ALL CABLING SHALL BE 500KCMIL NON-INSULATED AND ROUTED THROUGH INNERDUCT (PLENUM WHERE APPLICABLE) TO MAINTAIN ISOLATION FROM OTHER CURRENT CARRYING MATERIALS.



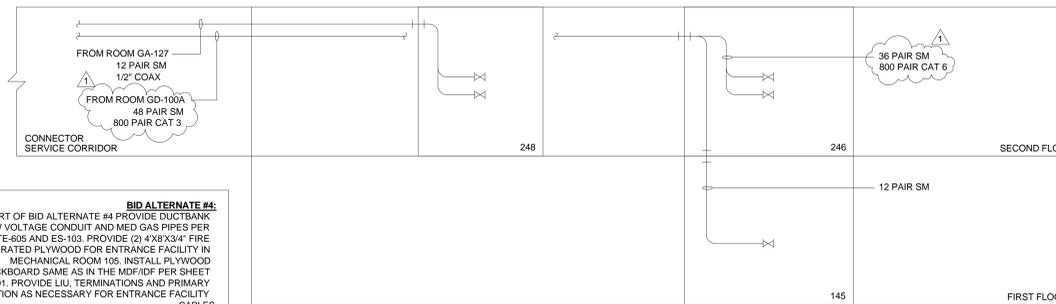
DOOR SECURITY CONNECTION DETAIL



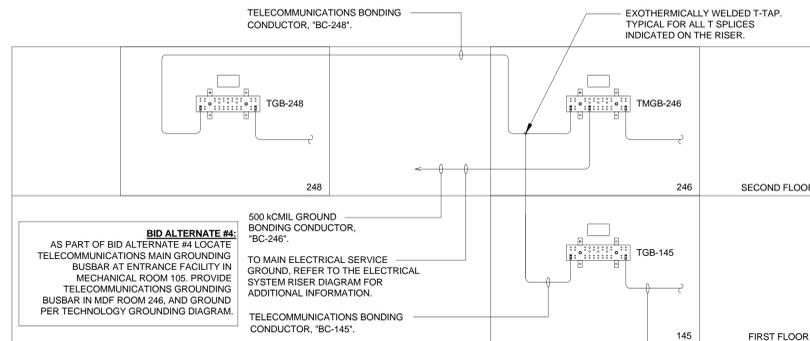
NURSE CALL DIAGRAM

NURSE CALL GENERAL NOTES:

- ALL CABLING SHALL BE CAT 5e UTP, UON.
- ALL CABLE RUNS SHALL BE WITHIN CONTINUOUS CONDUIT BACK TO THE BIO-MED ROOM 248.



TECHNOLOGY BACKBONE RISER
NO SCALE.



TECHNOLOGY GROUNDING DIAGRAM
NO SCALE.

RISER DIAGRAM GENERAL NOTES:

- ALL HORIZONTAL RUNS SHALL BE SUPPORTED WITH "J-HOOKS" EVERY 5'-0" MAXIMUM.
- ALL CABLING SHALL BE 500KCMIL NON-INSULATED AND ROUTED THROUGH INNERDUCT (PLENUM WHERE APPLICABLE) TO MAINTAIN ISOLATION FROM OTHER CURRENT CARRYING MATERIALS.

TECHNOLOGY BONDING CONDUCTOR SIZE

TBB LENGTH LINEAR FT. (m)	MINIMUM TBB SIZE (AWG)
LESS THAN 13 (4)	6 (4.1 MM (0.16 IN))
13 TO 20 (4 TO 6)	4 (5.2 MM (0.20 IN))
20 TO 26 (6 TO 8)	3 (5.8 MM (0.23 IN))
26 TO 33 (8 TO 10)	2 (6.5 MM (0.26 IN))
33 TO 44 (10 TO 13)	1 (7.4 MM (0.29 IN))
44 TO 52 (13 TO 16)	1/0 (12.24 MM (0.482 IN))
52 TO 66 (16 TO 20)	2/0 (13.41MM (0.528 IN))
GREATER THAN 66 (20)	3/0 (14.73 MM (0.580 IN))

TECHNOLOGY BONDING NOTES

- ALL TECHNOLOGY BONDING AND GROUNDING CONDUCTORS SHALL BE SIZED PER THE ABOVE TABLE, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS. ALL CONDUCTORS SHALL BE UNINSULATED AND ROUTED THROUGH INNERDUCT (PLENUM TYPE IN AIR HANDLING SPACES/PLENUMS AND IN OPEN SPACES) TO MAINTAIN ISOLATION FROM OTHER POSSIBLY CURRENT CARRYING MATERIALS. ALL HORIZONTAL GROUND CONDUCTOR NOT INSTALLED IN CABLE TRAY SHALL BE SUPPORTED WITH "J-HOOKS" EVERY 5'-0" MAXIMUM.
- ALL LUGS SHALL BE TWO (2) HOLE "IRREVERSIBLE" COMPRESSION TYPE EXCEPT WHERE EXOTHERMIC LUGS ARE SHOWN ON DRAWINGS. COMPRESSION LUGS SHALL BE MADE UP WITH TWO (2) CIRCUMFERENTIAL CRIMPS WITH A MATCHING TOOL. UNIVERSAL INDENT CRIMPS SHALL NOT BE USED. LUGS SHALL BE BLOTTED WITH TWO (2) BOLTS MATCHING THE LUG. CLEAN AND PREP THE BONDING BAR PRIOR TO ATTACHMENT.
- ALL TECHNOLOGY EQUIPMENT SHALL BE BONDED TO THE TECHNOLOGY BONDING RISER IN A STAR CONFIGURATION.
- ALL TECHNOLOGY AND TELECOMMUNICATION GROUNDING BARS SHALL HAVE AN ENGRAVED LAMINATED IDENTIFICATION TAG PERMANENTLY AFFIXED DIRECTLY ABOVE THE BUSBAR STATING "WARNING: TELECOMMUNICATIONS BONDING BUSBAR FOR DATA AND COMMUNICATION EQUIPMENT ONLY. NOT TO BE USED AS AN ELECTRICAL SYSTEM GROUND. IF CONNECTORS OR CABLES SHOW SIGNS OF BECOMING LOOSE, OR REQUIRE REMOVAL, CONTACT THE IT AND TECHNOLOGY MANAGER(S) IMMEDIATELY." AND THE NAME OF THE BONDING BAR.



9/20/2013

**BID DOCUMENTS
FULLY SPRINKLERED**

1	AMENDMENT 1	10/15/13
Revisions:		Date

ARCHITECT:

**C.C. HODGSON
ARCHITECTURAL GROUP**



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Drawing Title
TELECOMMUNICATIONS RISER DIAGRAMS

Approved: Project Director

Project Title
RELOCATE DEMENTIA UNIT

Location
VAMC MARTINSBURG

Date: 08/06/2012
Checked: REH
Drawn: MWE

Project Number
VA PN 613-207

Building Number
513

Drawing Number
TE-601

Dwg. of --

Office of
Construction
and Facilities
Management

