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ISSUE #	DESCRIPTION	DATE
1	BID DOCUMENTS	06/03/25

CONSULTANTS
STRUCTURAL:
ALBERTSON ENGINEERING, INC.
3202 W. MAIN ST., #C
RAPID CITY, SD 57702
605-343-9606
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DESIGNER OF RECORD
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STONE GROUP ARCHITECTS

STAMP

Office of
Construction
and Facilities
Management

U.S. Department
of Veterans Affairs

Drawing Title
SECOND FLOOR & ATTIC POWER PLANS

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR
SEMPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

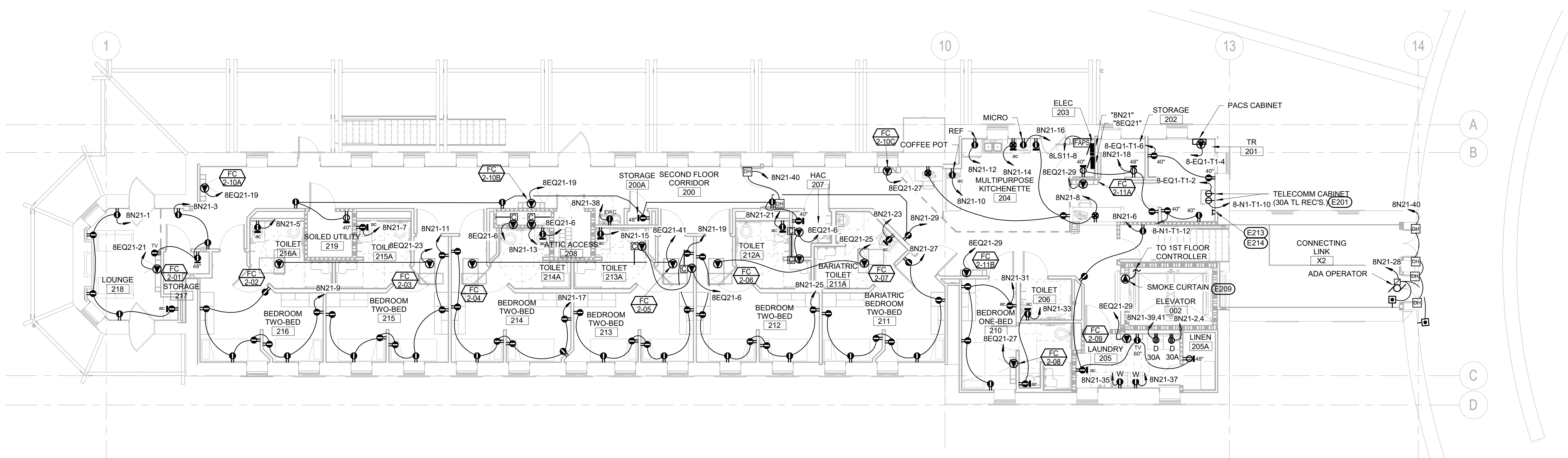
Issue Date
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MRS

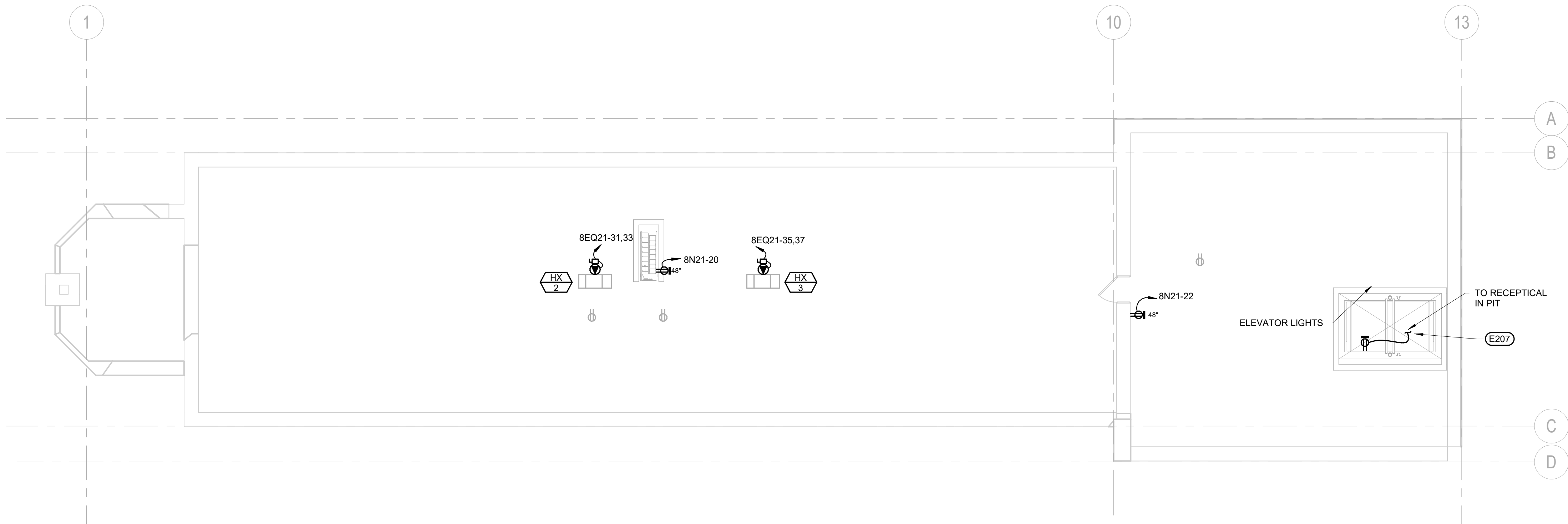
Drawn
VLS

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
EP-203

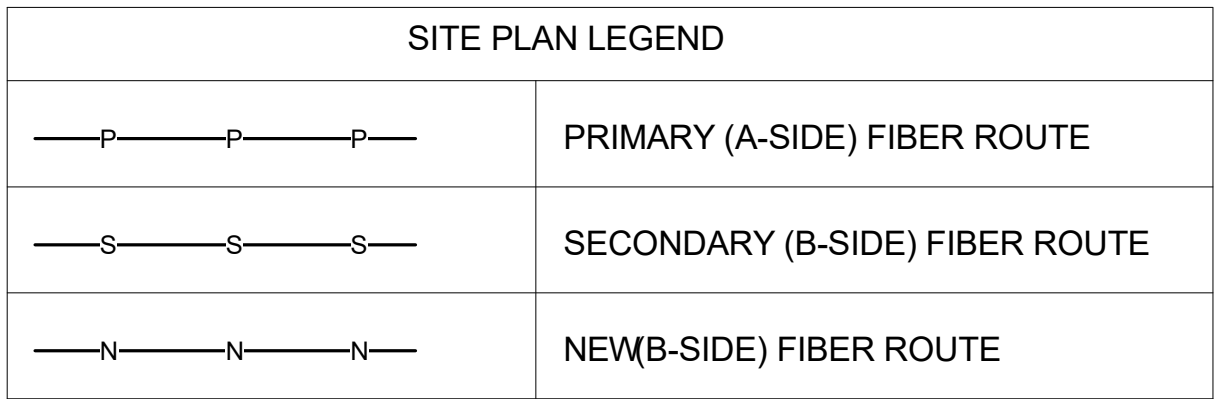


1 SECOND FLOOR POWER PLAN
1/8" = 1'-0"




2 ATTIC FLOOR POWER PLAN
1/8" = 1'-0"

- ELECTRICAL MISCELLANEOUS NOTES**
- A ALL FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEETROCK WALLS SHALL BE FISHED INTO THE WALL BY THE CONTRACTOR.
 - B ELECTRICAL ITEMS IN LIGHT PEN ARE EXISTING. ELECTRICAL ITEMS IN DARK PEN ARE NEW OR ARE TO BE TREATED AS NOTED.
 - C COORDINATE ALL ROUGH-IN WITH CASEWORK AND EQUIPMENT PRIOR TO INSTALLATION.
- ELECTRICAL SPECIFIC NOTES**
- E201 CONTRACTOR TO PROVIDE NEMA L5-30R RECEPTACLES BEHIND CABINET ENCLOSURE. ONE CIRCUIT WILL BE USED TO PLUG THE UPS INTO WHICH WILL THEN FEED ONE OF THE PDUS. THE SECOND CIRCUIT WILL PROVIDE POWER DIRECTLY TO THE OTHER PDU.
 - E207 INSTALL RECEPTACLE IN ELEVATOR PIT AND AT TOP OF ELEVATOR SHAFT. COORDINATE FINAL LOCATION WITH ELEVATOR EQUIPMENT SUPPLIER.
 - E209 PROVIDE POWER TO ELEVATOR SMOKE CURTAIN AS SHOWN. TIE SMOKE CURTAIN INTO FIRE ALARM SYSTEM SO THAT CURTAIN WILL DEPLOY WHEN SMOKE IS SENSED BY THE SMOKE DETECTOR IN THE ELEVATOR LOBBY.
 - E213 PROVIDE NEW GROUND BAR.
 - E214 THE FLOORING WITHIN THIS SPACE WILL BE STATIC DISSIPATIVE VINYL TILE (SDT). THE CONTRACTOR WILL NEED TO BOND THE SDT TO THE GROUND BAR WITHIN THE ROOM AS DETAILED IN THESE DOCUMENTS.



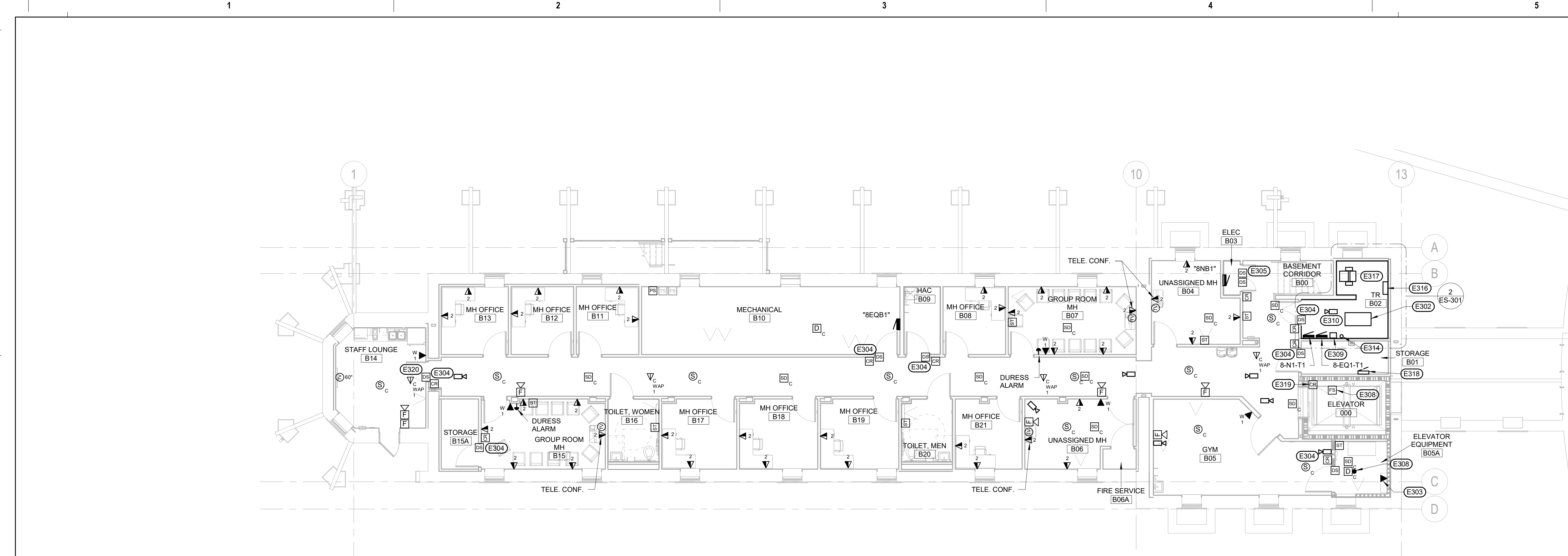
ELECTRICAL MISCELLANEOUS NOTES	
A	MANHOLE AND DUCT BANK DISTRIBUTION SYSTEM SHOWN PER RECORD DRAWINGS AND CONTRACTOR SHALL CONFIRM ROUTING PRIOR TO WORK.
B	ALL CLOSETS WITH TR RACKS OR CABINETS WILL BE PROVIDED BOTH PRIMARY AND SECONDARY BACKGROUNDED FIBER FROM BUILDING 65. EACH WILL BE FED BY ITS OWN DEDICATED FIBER FROM BUILDING 65.
C	DESIGN INTENT IS TO ROUTE PRIMARY AND SECONDARY FIBER THROUGH EXISTING DUCT BANK SYSTEM TO BUILDING 65 AND IN.
D	PRIMARY AND SECONDARY ROUTE TO BUILDING 8 WILL CONSIST OF EXISTING CONDUIT FROM BUILDING 65 THROUGH BUILDING 12. EXISTING UNDERGROUND PATH INTO CENTRAL ARCADE FROM BUILDING 12, AND CONDUIT DISTRIBUTION AROUND ARCADE TO BUILDING 8.

FIBER PATHWAY SCHEDULE	
ROUTE	CONTENTS
1	
2	
3	
4	
5	
6	B8: S
7	B8: S
8	
9	B8: P
10	B8: S
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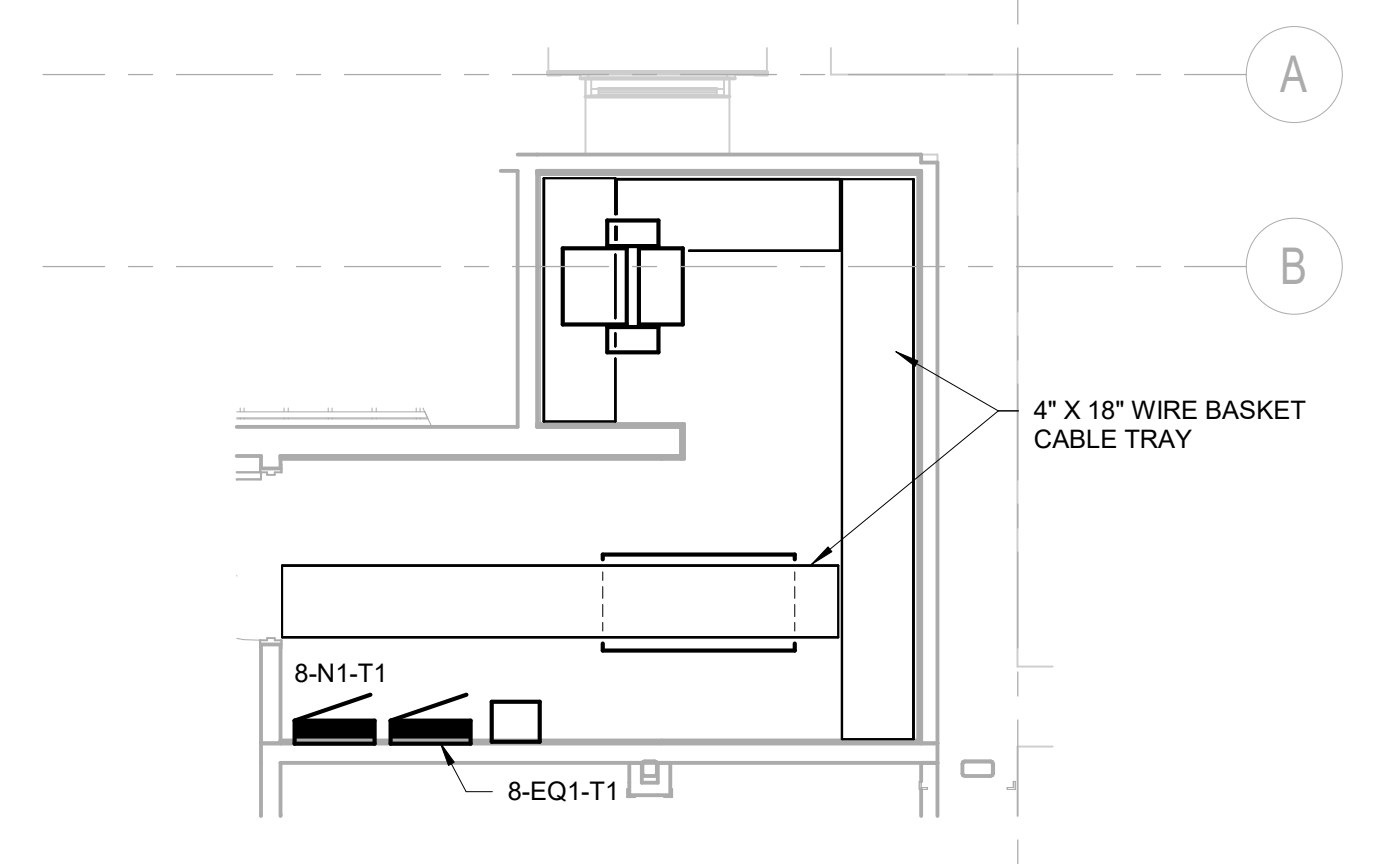
 **1** **TELECOM SITE**
1" = 80'-0"

[illegible]

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1 BASEMENT SIGNAL PLAN
1/8" = 1'-0"



2 ENLARGED BASEMENT CABLE TRAY PLAN
1/4" = 1'-0"

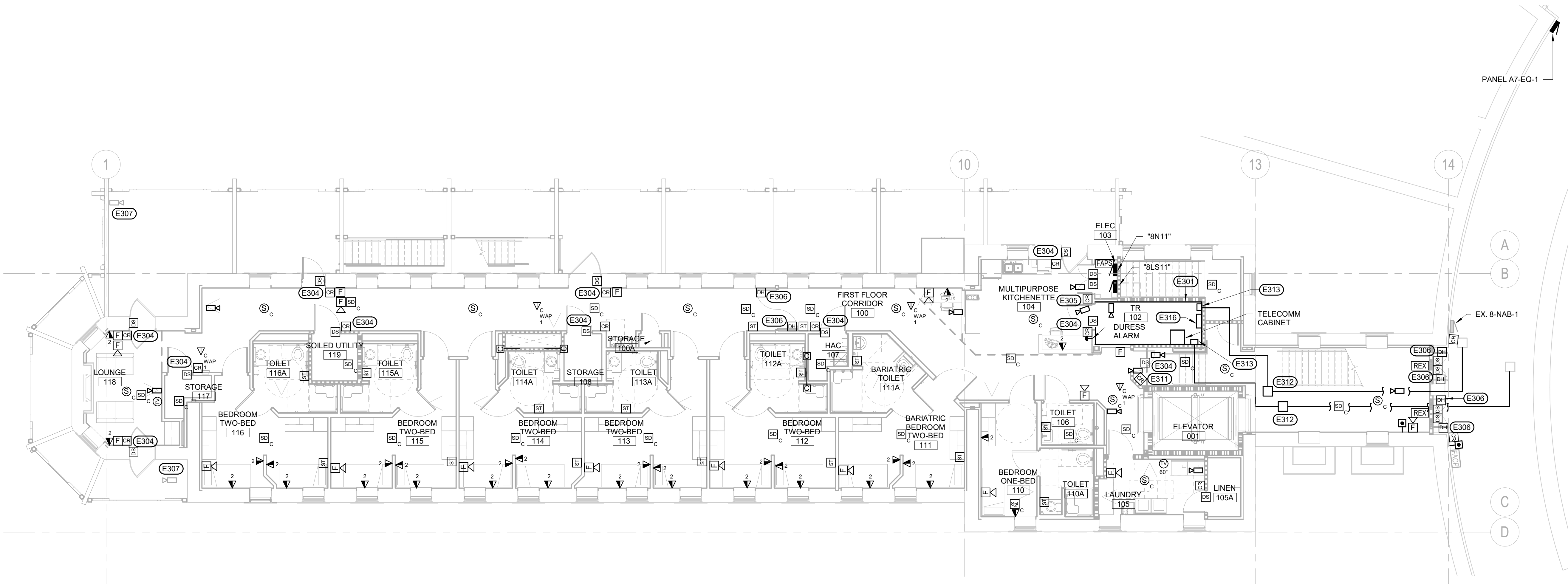
- ELECTRICAL MISCELLANEOUS NOTES**
- A. ALL FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEETROCK WALLS SHALL BE FISHED INTO THE WALL BY THE CONTRACTOR.
 - B. ELECTRICAL ITEMS IN LIGHT PEN ARE EXISTING. ELECTRICAL ITEMS IN DARK PEN ARE NEW OR ARE TO BE TREATED AS NOTED.
 - C. COORDINATE ALL ROUGH-IN WITH CASEWORK AND EQUIPMENT PRIOR TO INSTALLATION.
 - D. THE EXISTING FIRE ALARM SYSTEM IS A JOHNSON CONTROLS IFC SYSTEM. ALL WORK ON THE FIRE ALARM SYSTEM SHALL BE PERFORMED BY A JOHNSON CONTROLS NICET LEVEL II TECHNICIAN. ALL NEW FIRE ALARM WIRING IS TO BE INSTALLED IN NEW CONDUIT. ALL DEVICES SUPPLIED AS PART OF THIS PROJECT SHALL BE NEW AND MUST BE UL LISTED FOR USE WITH EXISTING CONTROL PANEL.
 - E. FIRE ALARM CONTRACTOR TO PROVIDE RELAYS AT SMOKE AND COMBINATION SMOKE/FIRE DAMPERS TO CLOSE UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
 - F. ALL NEW DATA, TELEPHONE, COMBINATION DATA/TELEPHONE, WIRELESS ACCESS POINTS (WAPs) AND VIDEO SURVEILLANCE CAMERA CABLING WORK THAT IS PART OF THIS PROJECT WILL BE CAT 6A AND INSTALLED AND TERMINATED AS OUTLINED IN THE SPECIFICATION ON PLANS ON SHEET EJ-404. ALL NEW TELEPHONE AND DATA CABLING SHALL BE ROUTED TO THE NEW TR ROOMS AND TERMINATED AT PATCH PANELS. VIDEO SURVEILLANCE CABLING SHALL BE ROUTED TO THE VIDEO SURVEILLANCE RACK IN TR B02.

- ELECTRICAL SPECIFIC NOTES**
- E302 CONTRACTOR TO RELOCATE EXISTING RACK FROM EXISTING 1ST FLOOR TR ROOM TO THIS NEW TR ROOM. EXISTING RACK IS AN ORTRONICS MODEL MM073038W WITH CABLE MANAGEMENT. THIS RACK HAS EXISTING FIBER PATCH CASSETTES THAT ACCOMMODATE THE TERMINATION OF 48 SINGLE MODE FIBERS THAT SERVE THE RACK; A 24 PORT CAT 6A PATCH PANEL FOR SERVICE TO EXISTING TELECOMDATA (WAPs) AND A 48 PORT CAT 6A PATCH PANEL FOR SERVICE TO EXISTING TELECOMDATA. THE CONTRACTOR TO PROVIDE ADDITIONAL CAT 6A PATCH PANELS TO BE LEVITON EDX1A-S48 WITH REAR CABLE MANAGEMENT AND ANGLED PANEL COVER, TO MATCH EXISTING PANELS BEING USED BY THE OWNER. PROVIDE QUANTITY AS NEEDED FOR CONNECTION OF ALL DROPS SHOWN IN THE BASEMENT PLUS 20% SPARES. THIS RACK IS CURRENTLY FED BY TWO SEPARATE FIBER CABLES ROUTED USING TWO INDEPENDENT PATHWAYS, EACH CONSISTING OF 24 FIBERS, THAT ORIGINATE FROM BUILDING 65. THIS FIBER IS ROUTED BY WAY CONDUIT THROUGH THE ARCADE AND THEN TO THE RACK. THESE FIBER CABLES WILL NEED TO BE PULLED BACK TO EXISTING PULL BOXES LOCATED IN THE ARCADE. THE CONTRACTOR WILL THEN NEED TO PROVIDE NEW 2" CONDUITS AS NOTED ELSEWHERE.
 - E303 PROVIDE CAT 6A CABLE TO ELEVATOR CONTROL PANEL FOR COMMUNICATIONS REQUIREMENTS IN THE ELEVATOR CAB. CABLE SHALL BE RUN TO TR B02.
 - E304 PROVIDE ACCESS CONTROL ROUGH-IN TO DOOR AS PER SINGLE DOOR ACCESS CONTROL DETAIL.
 - E305 PROVIDE ACCESS CONTROL ROUGH-IN TO DOOR AS PER DOUBLE DOOR ACCESS CONTROL DETAIL.
 - E308 PROVIDE RELAYS WITH HEAT DETECTOR AND FLOW SWITCH TO INTERFACE WITH ELEVATOR SHUNT-TRIP DISCONNECT TO SHUNT POWER UPON ACTIVATION OF EITHER DEVICE.
 - E309 NEW LOCATION FOR ANALOG TERMINATION CABINET THAT IS BEING RELOCATED. THE 25 PAIR CABLE SERVING THE EXISTING IT CLOSET IS BE PULLED BACK TO ARCADE AND NEW CONDUIT PROVIDED FROM THE ARCADE TO THE NEW CABINET LOCATION FOR RE-ROUTING THE CABLE.
 - E310 NEW LOCATION FOR RELOCATED SECURITY CAMERA.
 - E314 CONTRACTOR TO PROVIDE 4" SLEEVE BETWEEN BASEMENT AND FIRST FLOOR. PROVIDE SMOKE AND FIRE RATING AROUND SLEEVE. PROVIDE FIRE PUTTY ON INSIDE OF CONDUIT.
 - E316 NEW LOCATION FOR PHYSICAL ACCESS CONTROL SYSTEM (PACS) CABINET AND ASSOCIATED EQUIPMENT TO SERVE BUILDING 6.
 - E317 NEW VIDEO SURVEILLANCE RACK TO BE CHATSWORTH MODEL 46393-E03 OR EQUAL WITH TWO VERTICAL CABLE MANAGEMENT CHATSWORTH MODEL 40099-703 OR EQUAL. CONTRACTOR TO ALSO PROVIDE TWO VERTICAL PDUs PER RACK EQUAL TO CHATSWORTH E1-2002-C. PROVIDE MOUNTING BRACKETS FOR CONNECTION TO RACKS. PROVIDE WITH RACK MOUNTED UPS EQUAL TO EATON MODEL 5PX3000RT3UNG2 OR EQUAL WITH LS-30P INPUT AND 1-LS-30R AND 5-5-20R OUTPUT RECEPTACLES. PROVIDE TWO LS-30R RECEPTACLES FOR UPS/POWER STRIPS TO PUG INTO. THE CONTRACTOR TO PROVIDE CAT 6A PATCH PANEL LEVITON MODEL EDX1A-S48 WITH REAR CABLE MANAGEMENT AND ANGLED PANEL COVER TO MATCH EXISTING PATCH PANELS BEING USED BY THE OWNER. PROVIDE FOR CONDUIT AND SINGLE MODE FIBER AS REQUIRED FOR EXTENSION AND CONNECTION TO THE EXISTING VIDEO SURVEILLANCE SYSTEM. PROVIDE THE NECESSARY SINGLE MODE FIBER CASSETTES, AND CASSETTE ENCLOSURES AS NECESSARY TO PROVIDE A COMPLETE AND OPERATIONS VIDEO SURVEILLANCE SYSTEM THAT IS INTEGRATED WITH THE EXISTING CAMPUS WIDE VIDEO SURVEILLANCE SYSTEM.
 - E318 PROVIDE FIRE ALARM INTERFACE OF SMOKE CURTAIN IN FRONT OF ELEVATOR TO PROVIDE SIGNAL FOR CURTAIN TO CLOSE UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
 - E319 PROVIDE CARD READER WITHIN ELEVATOR FOR CONTROLLED ACCESS TO BASEMENT.
 - E320 THE SECURITY SYSTEM FOR THIS DOOR WILL REQUIRE THE DOOR TO UNLOCK WITH FREE EGRESS DURING ACTIVATION OF THE FIRE ALARM SYSTEM AS THIS IS A REQUIRED EXIT DURING EMERGENCY.

CONSULTANTS			DESIGNER OF RECORD			STAMP			Office of Construction and Facilities Management			Drawing Title			Phase			Project Title			Project Number		
STRUCTURAL: ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER			MEP: WEST PLAINS ENGINEERING, INC. 1750 RAND ROAD RAPID CITY, SD 57702 605-348-7455 MIKE SIGMAN (ELEC) MICHAEL HEINRICH (MECH)			A/E: Stone Group Architects 600 E. 7th Street Sioux Falls, SD 57103 phone: 605.271.1144 stonegrouparchitects.com			U.S. Department of Veterans Affairs			BASEMENT SIGNAL PLAN			BID DOCUMENTS			DOM RENOVATION FOR SEMIPRIVATE ROOMS			VA #568A4-21-208 SGA #BR21039		
1 BID DOCUMENTS 06/03/25			WPE WEST PLAINS ENGINEERING, INC.			STONE GROUP ARCHITECTS			VA			Approved DOUG SPRINKLE			FULLY SPRINKLERED			Location HOT SPRINGS, SOUTH DAKOTA			Building Number 8		
ISSUE # DESCRIPTION DATE																		Issue Date 06/03/2025			Checked MRS		
																					Drawing Number ES-301		

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1 FIRST FLOOR SIGNAL PLAN
1/8" = 1'-0"
NORTH

- ELECTRICAL MISCELLANEOUS NOTES**
- A ALL FIXTURES OR WIRING DEVICES SHOWN TO BE INSTALLED WITHIN EXISTING SHEETROCK WALLS SHALL BE FISHED INTO THE WALL BY THE CONTRACTOR.
 - B ELECTRICAL ITEMS IN LIGHT PEN ARE EXISTING. ELECTRICAL ITEMS IN DARK PEN ARE NEW OR ARE TO BE TREATED AS NOTED.
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 - D THE EXISTING FIRE ALARM SYSTEM IS A JOHNSON CONTROLS IFC SYSTEM. ALL WORK ON THE FIRE ALARM SYSTEM SHALL BE PERFORMED BY A JOHNSON CONTROLS NICET LEVEL II TECHNICIAN. ALL NEW FIRE ALARM WIRING IS TO BE INSTALLED IN NEW CONDUIT. ALL DEVICES SUPPLIED AS PART OF THIS PROJECT SHALL BE NEW AND MUST BE UL LISTED FOR USE WITH EXISTING CONTROL PANEL.
 - E FIRE ALARM CONTRACTOR TO PROVIDE RELAYS AT SMOKE AND COMBINATION SMOKE/FIRE DAMPERS TO CLOSE UPON ACTIVATION OF THE FIRE ALARM SYSTEM.
 - F ALL NEW DATA, TELEPHONE, COMBINATION DATATELEPHONE, WIRELESS ACCESS POINTS (WAPs) AND VIDEO SURVEILLANCE CAMERA CABLING WORK THAT IS PART OF THIS PROJECT WILL BE CAT 6A AND INSTALLED AND TERMINATED AS OUTLINED IN THE SPECIFICATION ON PLANS ON SHEET EJ-404. ALL NEW TELEPHONE AND DATA CABLING SHALL BE ROUTED TO THE NEW TR ROOMS AND TERMINATED AT PATCH PANELS. VIDEO SURVEILLANCE CABLING SHALL BE ROUTED TO THE VIDEO SURVEILLANCE RACK IN TR 802.

- ELECTRICAL SPECIFIC NOTES**
- E301 CONTRACTOR TO LINE INSIDE OF TR ROOM WITH 3/4" FIRE RATED PLYWOOD AND PAINT GREY WITH FIRE RATED PAINT. PLYWOOD SHALL BE HUNG WITH 8' EDGE RUNNING VERTICALLY AND SHALL BE HELD OFF THE FLOOR BY 2".
 - E304 PROVIDE ACCESS CONTROL ROUGH-IN TO DOOR AS PER SINGLE DOOR ACCESS CONTROL DETAIL.
 - E305 PROVIDE ACCESS CONTROL ROUGH-IN TO DOOR AS PER DOUBLE DOOR ACCESS CONTROL DETAIL.
 - E306 INTERCONNECT DOOR HOLDS INTO FIRE ALARM SYSTEM TO RELEASE UPON FIRE ALARM SYSTEM ACTIVATION.
 - E307 EXISTING CAMERA IS TO REMAIN IN PLACE. PROVIDE NEW CAT 6A CABLE FROM CAMERA BACK TO TR ROOM. TERMINATE AT BOTH ENDS.
 - E311 PROVIDE A CHATSWORTH MODEL 11996-E48 CABINET W/LOOKS FOR FRONT AND BACK FAN AND FILTER KIT MODEL 40972-001701 AND TWO METERED POWER STRIPS EQUAL TO EATON PDMH30. PROVIDE 4 LEVITON E2X1A-S24 OR EQUAL PATCH PANELS WITH REAR CABLE MANAGEMENT AND ANGLED PANEL COVER OR 2 EQUIVALENT 48 PORT PATCH PANELS. PROVIDE WITH RACK MOUNTED UPS EQUAL TO EATON MODEL SPX3000T3UNG2 OR EQUAL WITH L5-30P INPUT AND 1-L5-30R AND 6-S-20R OUTPUT RECEPTACLES. PROVIDE TWO L5-30R RECEPTACLES FOR UPS/POWER STRIPS TO PLUG INTO. CONTRACTOR TO PROVIDE TWO INDEPENDENT RUNS OF FIBER EACH CONSISTING OF A 24 STRAND SINGLE MODE (OS2) FIBER CABLE TO THIS CABINET. THIS FIBER WILL ORIGINATE FROM BUILDING 65 AND WILL BE ROUTED THROUGH THE EXISTING RACEWAY SYSTEM AS IDENTIFIED IN THESE PLANS TO THE TWO PULL BOXES LOCATED AND SHOWN IN THE ARCADE AND EXTEND NEW CONDUITS AS NOTED ELSEWHERE. PROVIDE ASSOCIATED 12 FIBER CASSETTES EQUAL TO LEVITON HDX ENTERPRISE MTP WITH LC CONNECTORS REAR AND LC CONNECTORS FRONT. PROVIDE QUANTITY OF CASSETTES FOR TERMINATION OF ALL FIBER STRANDS PLUS 25% SPARE TERMINATIONS. PROVIDE FIBER DISTRIBUTION CABINET EQUAL TO LEVITON ANGLED OPT-X UHDX FOR MOUNTING OF CASSETTES WITHIN CABINET. PROVIDE FIBER CASSETTES AND CABINETS FOR TERMINATION OF FIBER AT BOTH ENDS. CONTRACTOR TO ALSO PROVIDE ONE 7' CAT 6A PATCH CORD FOR THE CLOSET AND ONE 10' CAT 6A PATCH CORD FOR THE WORKSTATION END FOR EACH DROP INSTALLED.
 - E312 CONTRACTOR TO INTERCEPT EXISTING 2" FIBER CONDUITS AT THESE APPROXIMATE LOCATIONS. PROVIDE NEW PULL BOXES AT THESE LOCATIONS. EXTEND NEW 2" CONDUIT ALONG THIS APPROXIMATE PATHWAY TO 2 NEW PULL BOXES IN NEW TR 102. ALL FIBER FOR THE NEW TR CLOSETS WILL BE ROUTED THRU THIS CONDUIT.
 - E313 CONTRACTOR TO PROVIDE NEW PULL BOXES NEAR CEILING OF TR 102. PROVIDE 3 NEW 2" CONDUITS FROM EACH OF THESE PULL BOXES FOR A TOTAL OF 6 NEW 2" CONDUITS. 2 CONDUITS WILL EXTEND TO THE BASEMENT TR 802 TO REROUTE EXISTING FIBER TO THE RACK IN TR 802. 2 CONDUITS WILL EXTEND NEW FIBER TO THE CABINET IN THIS ROOM. 2 CONDUITS WILL EXTEND NEW FIBER TO THE CABINET IN TR 201.
 - E316 NEW LOCATION FOR PHYSICAL ACCESS CONTROL SYSTEM (PACS) CABINET AND ASSOCIATED EQUIPMENT TO SERVE BUILDING 8.

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MICHAEL HEINRICH (MECH)

WPE WEST PLAINS ENGINEERING, INC.

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STONE GROUP ARCHITECTS

STAMP

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 7595
MICHAEL HEINRICH
ELECTRICAL
SOUTH DAKOTA
12/19/2022

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
FIRST FLOOR SIGNAL PLAN

Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
MRS

Drawn
VLS

Project Number
VA #568A4-21-208
SGA #BR21039

Building Number
8

Drawing Number
ES-302

THREE INCHES - ONE FOOT (3" = 1'-0")
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WEST PLAINS ENGINEERING, INC.

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phone: 605.271.1144
stonegrouparchitects.com

STONE GROUP ARCHITECTS

STAMP

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title

SECOND FLOOR & ATTIC SIGNAL PLANS

Approved

DOUG SPRINKLE

Phase

100% CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title

DOM RENOVATION FOR SEMIPRIVATE ROOMS

Location

HOT SPRINGS, SOUTH DAKOTA

Issue Date

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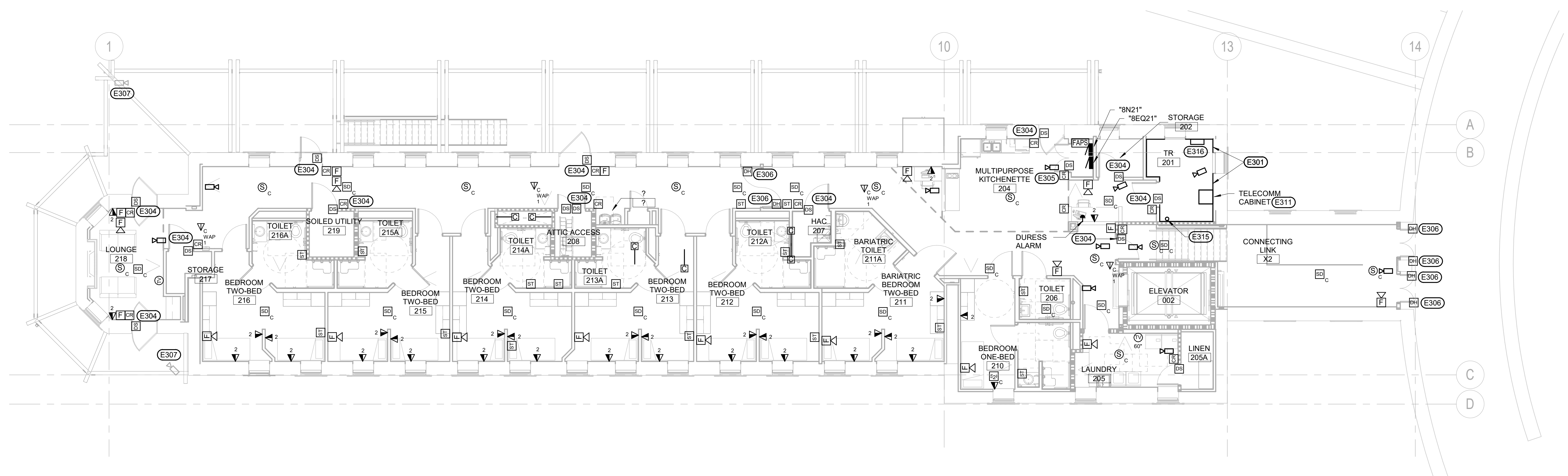
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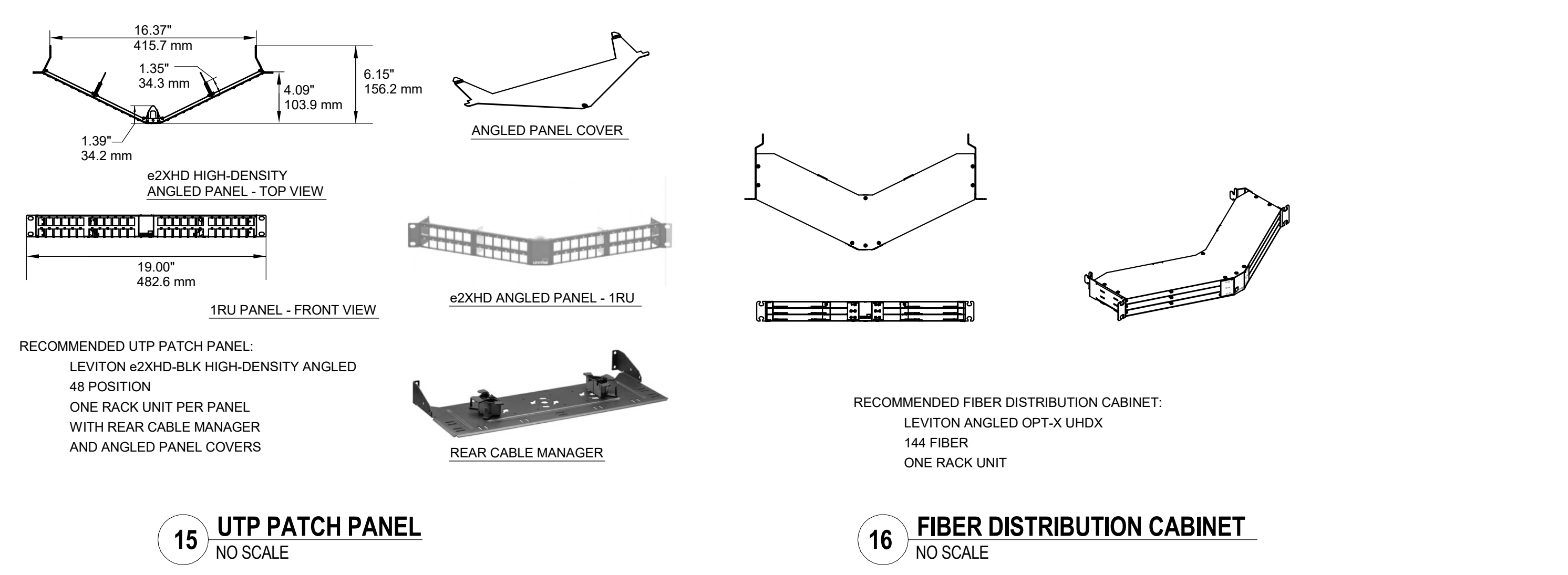
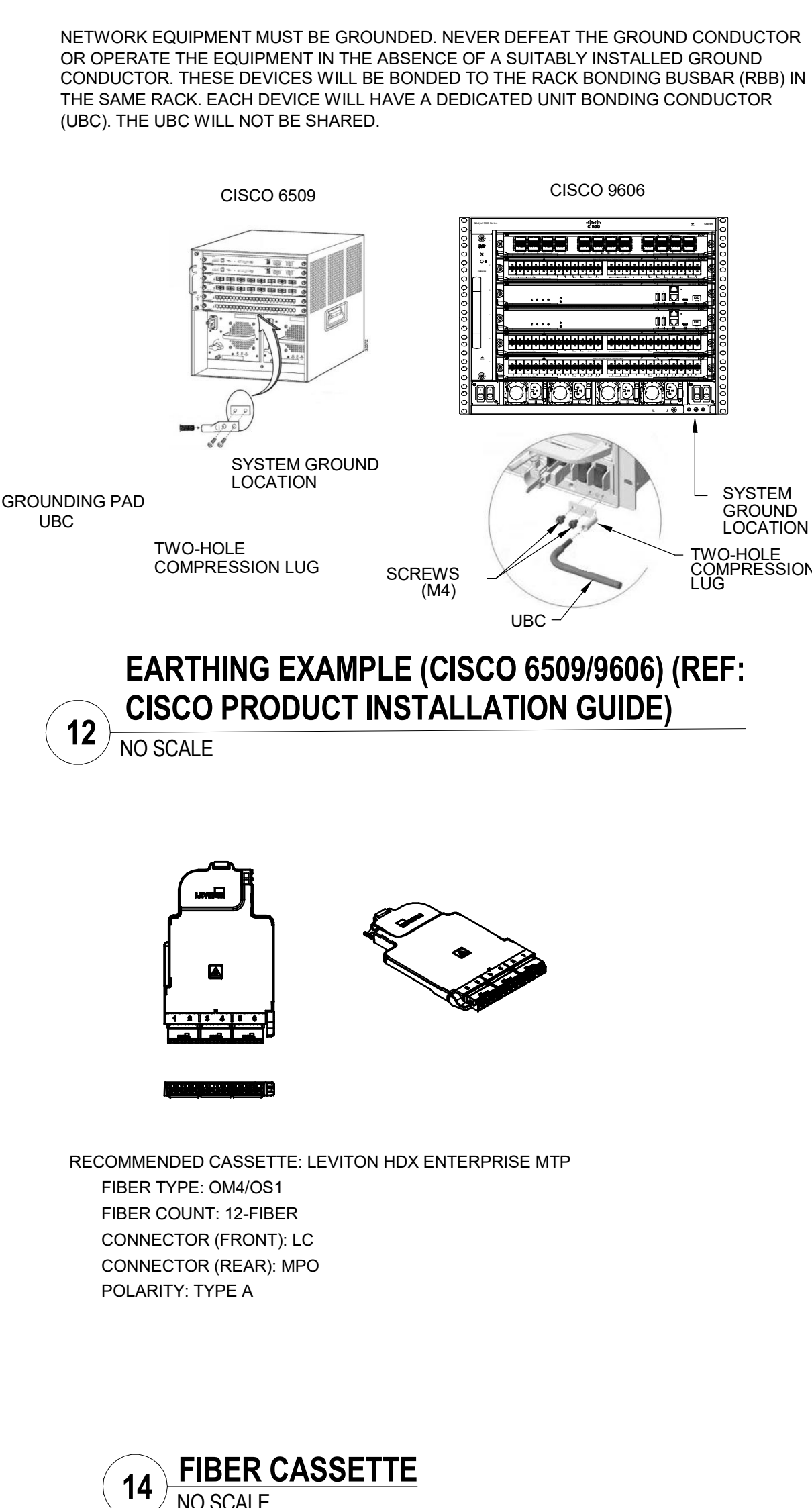
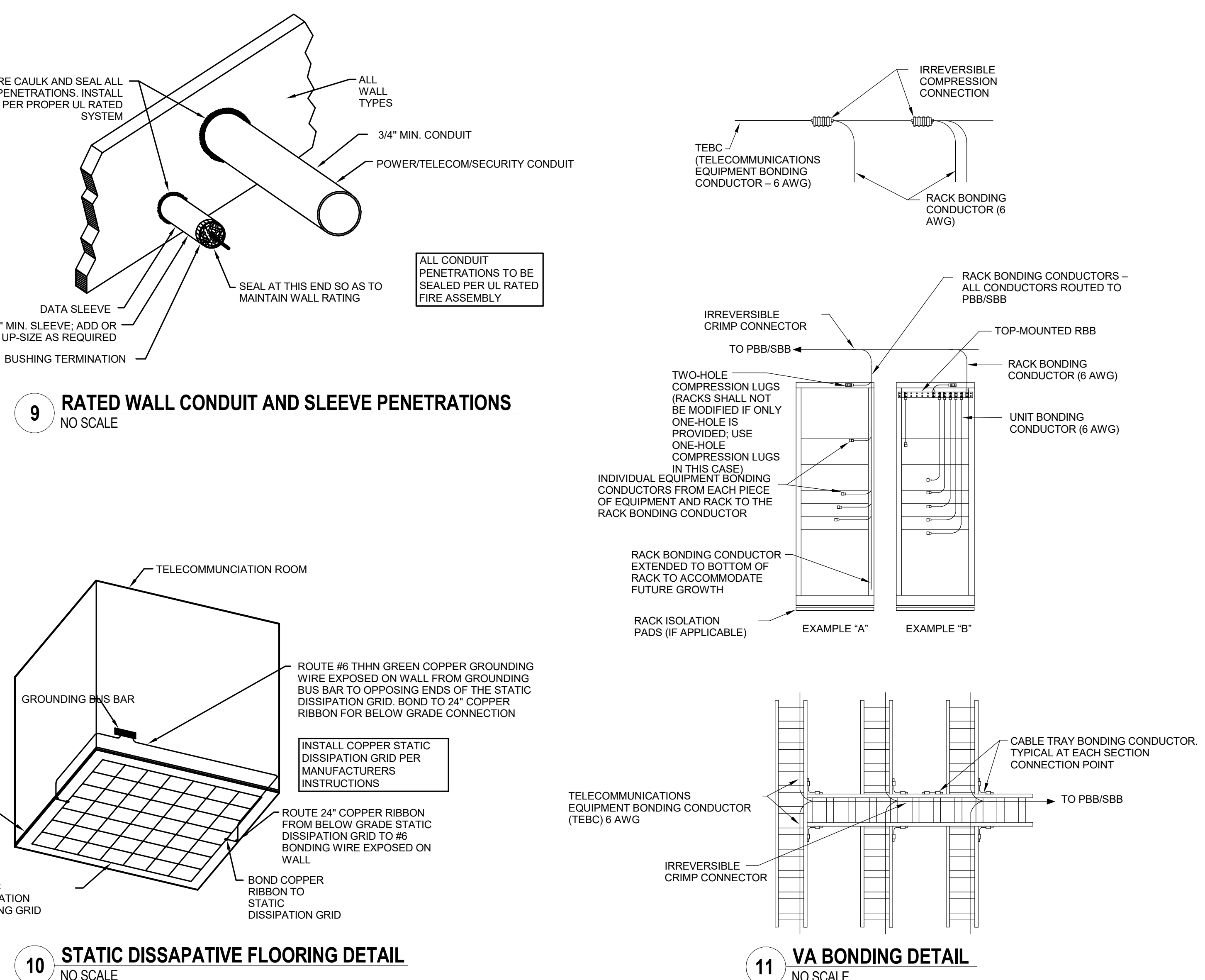
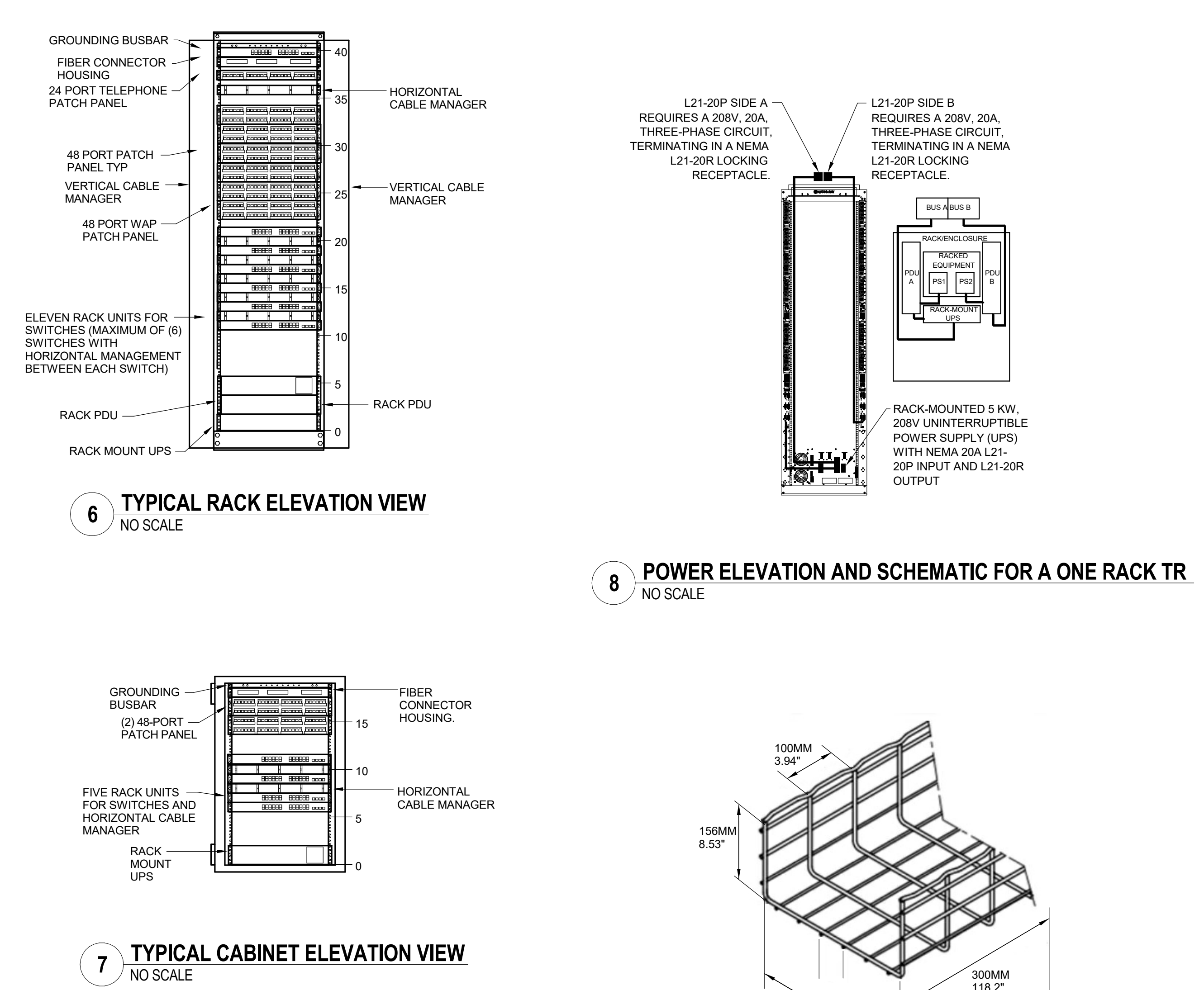
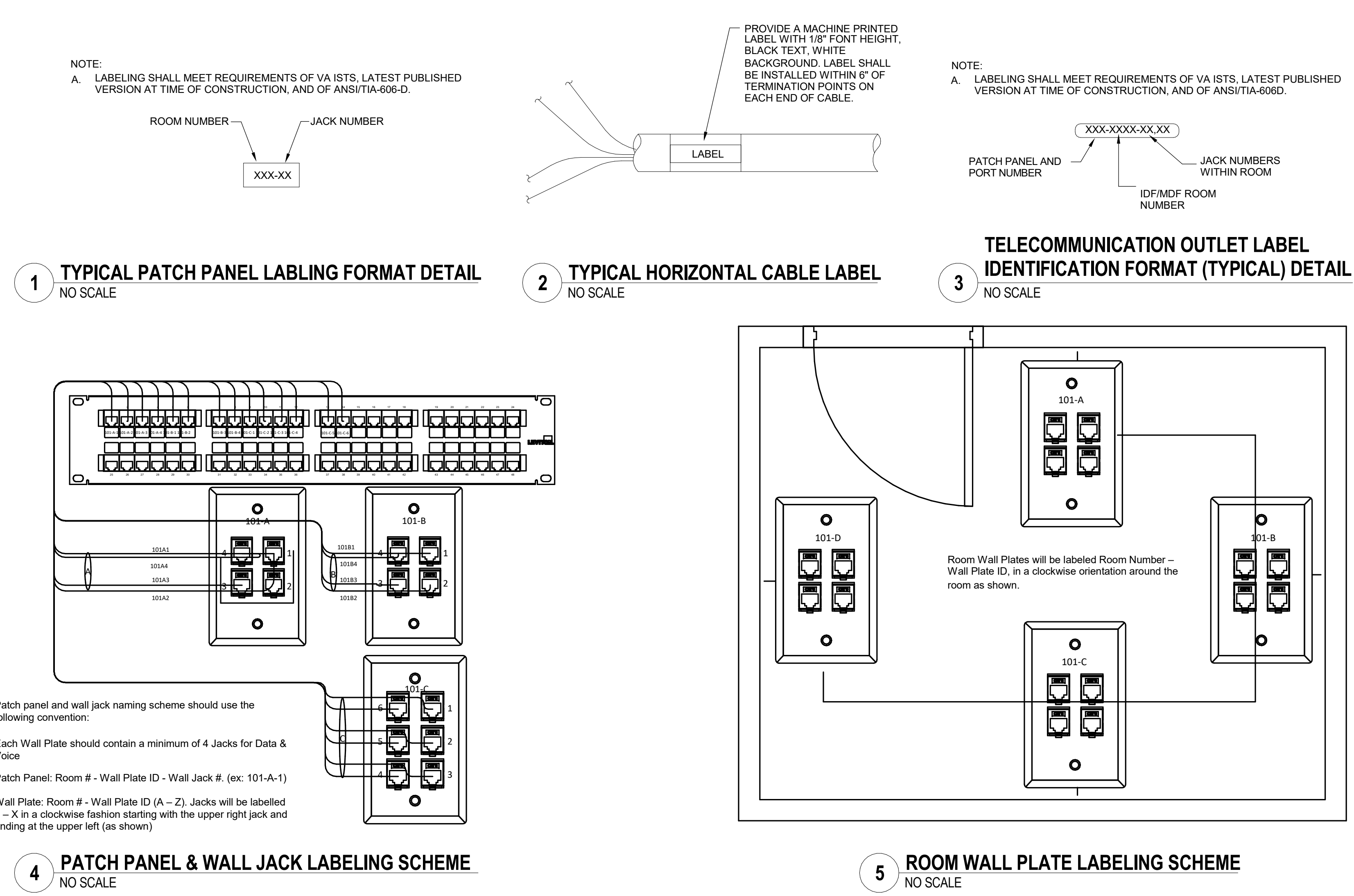
ES-303



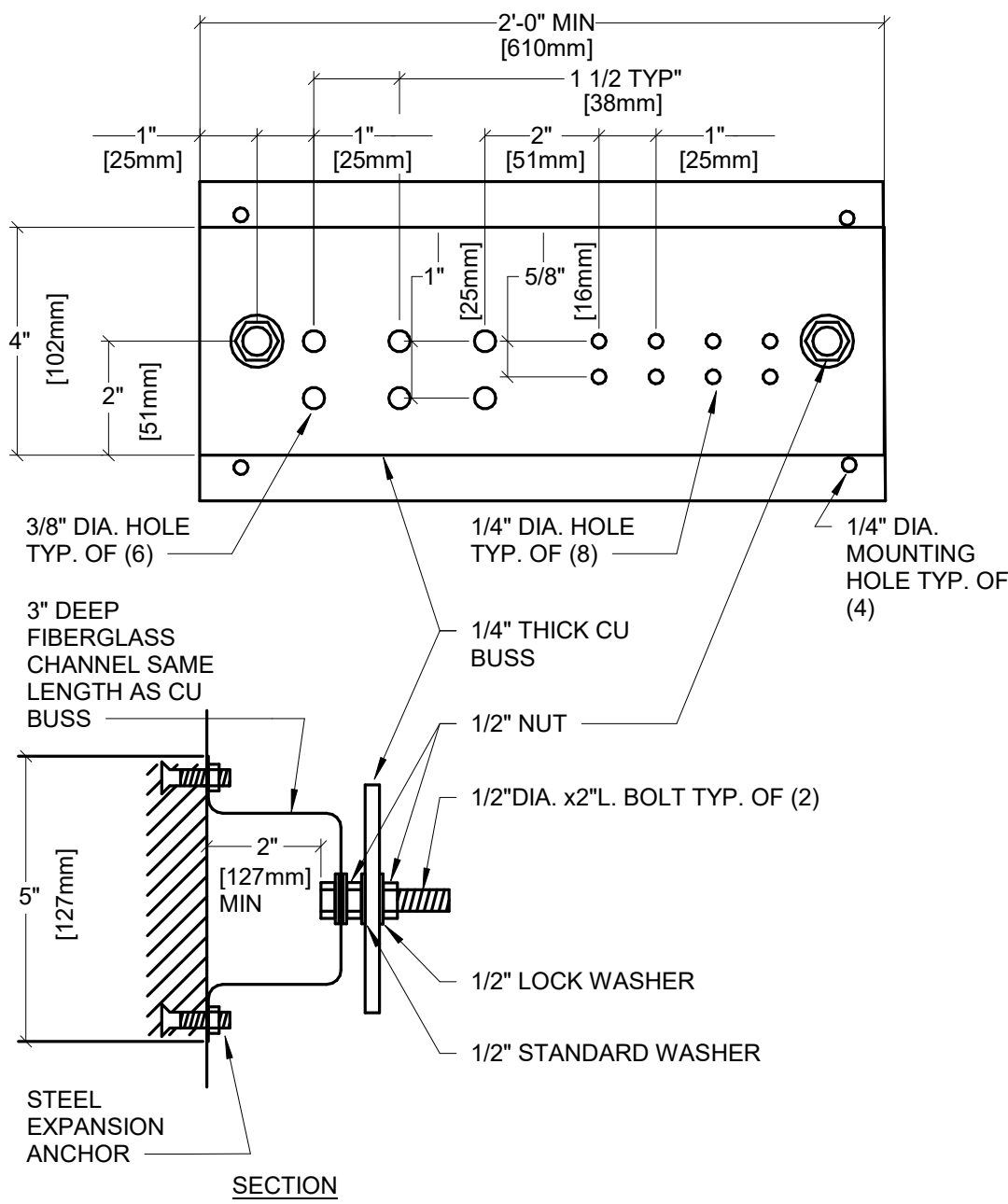
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ONE EIGHTH INCH - ONE FOOT (1/8" = 1'-0")

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ONE EIGHTH INCH - ONE FOOT (1/8" = 1'-0")
ONE QUARTER INCH - ONE FOOT (1/4" = 1'-0")
ONE HALF INCH - ONE FOOT (1/2" = 1'-0")
ONE INCH - ONE FOOT (1" = 1'-0")
ONE AND ONE HALF INCHES - ONE FOOT (1 1/2" = 1'-0")
THREE INCHES - ONE FOOT (3" = 1'-0")

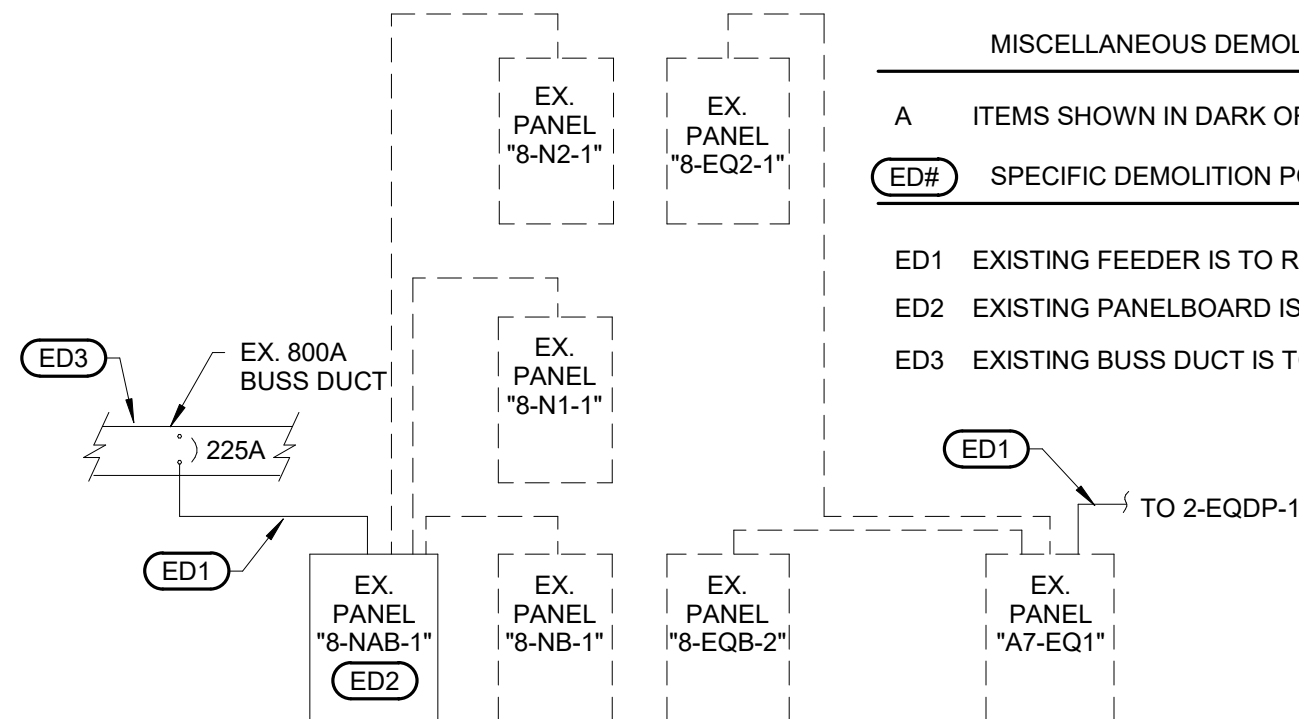


			CONSULTANTS						DESIGNER OF RECORD			STAMP			<div>Office of Construction and Facilities Management</div> <div>VAU.S. Department of Veterans Affairs</div>			<div>Drawing Title</div> <div>ELECTRICAL DETAILS</div> <div>Approved</div> <div>DOUG SPRINKLE</div>			<div>Phase</div> <div>100% CONSTRUCTION DOCUMENTS</div> <div>FULLY SPRINKLERED</div>			<div>Project Title</div> <div>DOM RENOVATION FOR SEMIPRIVATE ROOMS</div> <div>Location</div> <div>HOT SPRINGS, SOUTH DAKOTA</div> <div>Issue Date</div> <div>06/03/2025</div> <div>Checked</div> <div>MRS</div> <div>Drawn</div> <div>VLS</div>			<div>Project Number</div> <div>VA #568A4-21-208</div> <div>SGA #BR21039</div> <div>Building Number</div> <div>8</div> <div>Drawing Number</div> <div>EJ-401</div>					
			<div>STRUCTURAL:</div> <div>ALBERTSON ENGINEERING, INC.</div> <div>3202 W. MAIN ST., #C</div> <div>RAPID CITY, SD 57702</div> <div>605-343-9606</div> <div>STEPHEN KILBER</div> <div>Albertson Engineering Inc.</div>			<div>MEP:</div> <div>WEST PLAINS ENGINEERING, INC.</div> <div>1750 RAND ROAD</div> <div>RAPID CITY, SD 57702</div> <div>605-348-7455</div> <div>MIKE SIGMAN (ELEC)</div> <div>MICHAEL HEINRICH (MECH)</div>						<div>A/E:</div> <div>Stone Group Architects</div> <div>600 E. 7th Street</div> <div>Sioux Falls, SD 57103</div> <div>phone: 605.271.1144</div> <div>stonegrouparchitects.com</div>			<div></div> <div>STONE GROUP ARCHITECTS</div>			<div>REGISTERED PROFESSIONAL ENGINEER</div> <div>REG. NO. 7595</div> <div>MICHAEL SIGMAN</div> <div>RAPID CITY, SOUTH DAKOTA</div> <div>12/19/2025</div>														
1			BID DOCUMENTS			06/03/25																										
ISSUE #			DESCRIPTION			DATE																										

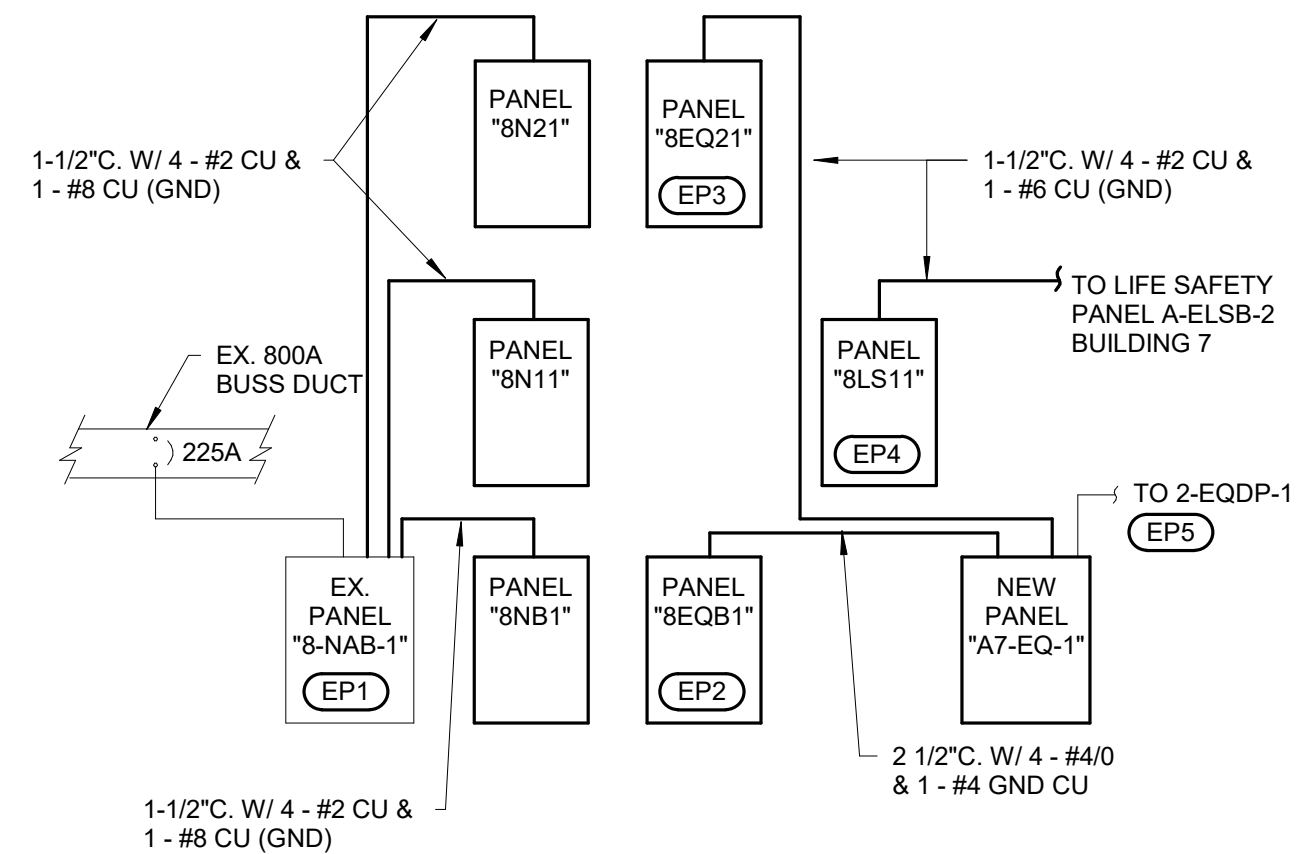


GENERAL NOTES
1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

1 STEEL TELECOM GROUND BAR DETAIL
NO SCALE

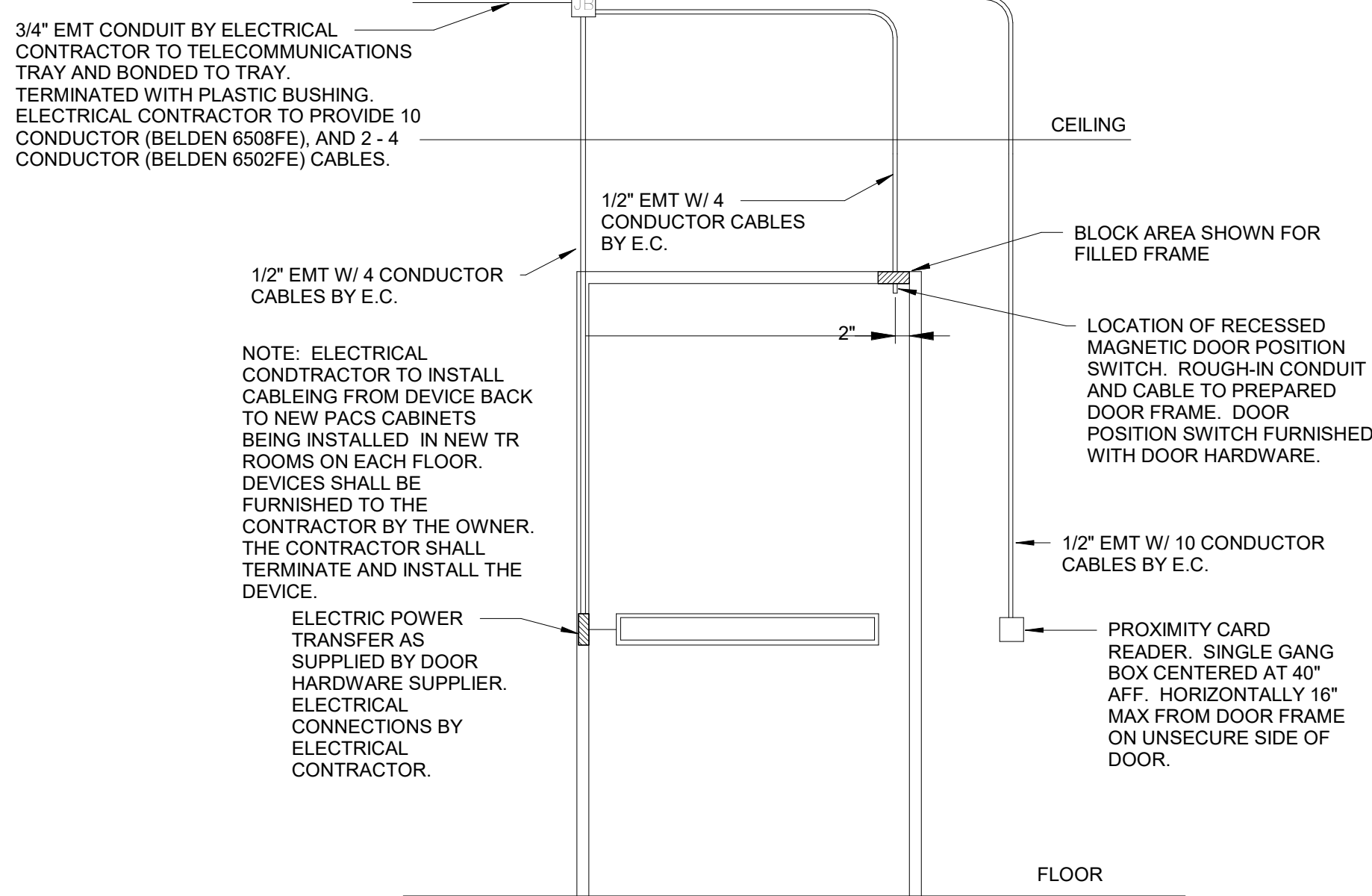


2 DEMOLITION POWER ONE-LINE DIAGRAM
NO SCALE

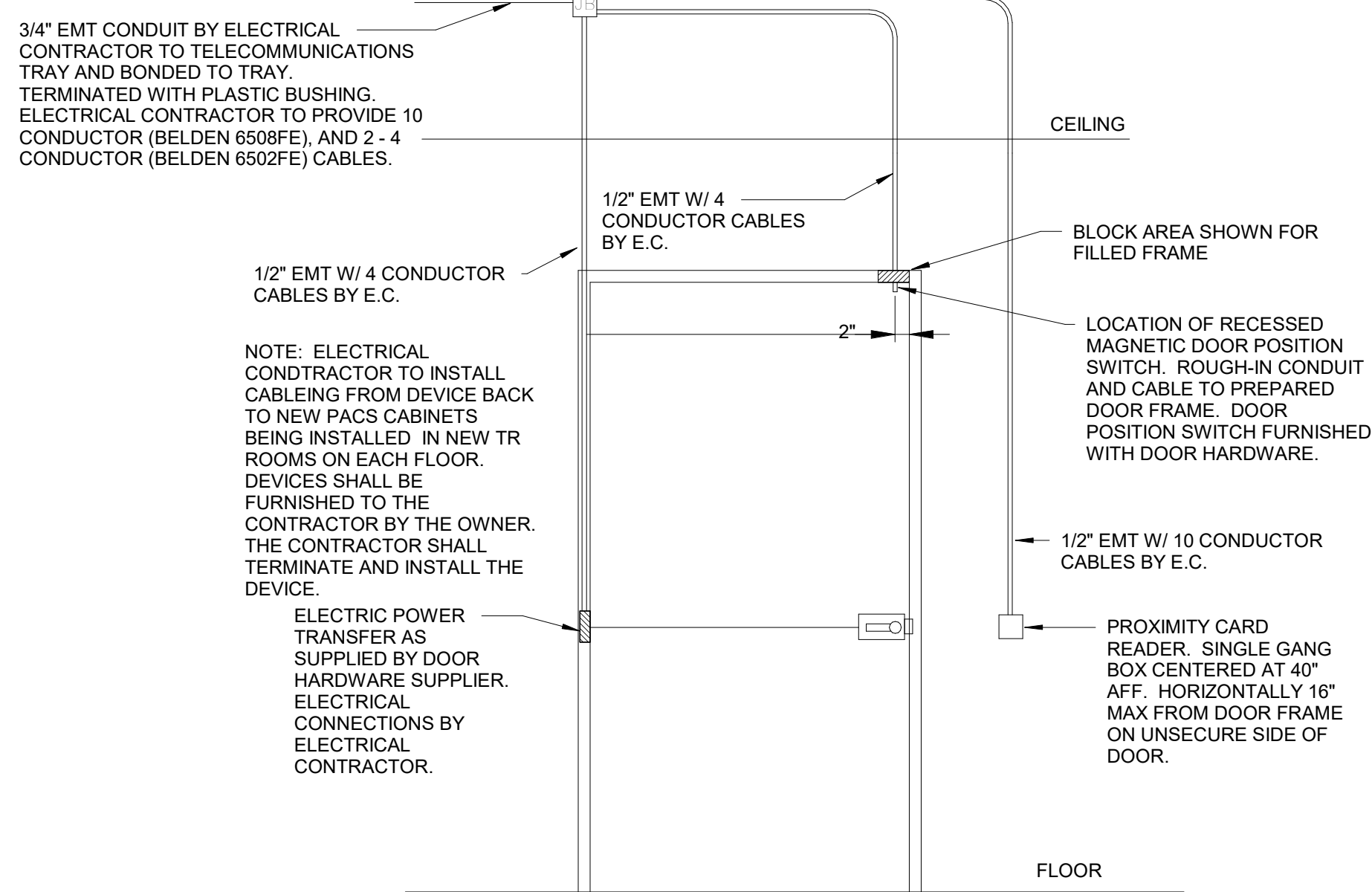


MISCELLANEOUS DEMOLITION POWER ONE-LINE NOTES
A ITEMS IN DARK PEN ARE NEW. ITEMS IN LIGHT PEN ARE EXISTING.
EP# SPECIFIC DEMOLITION POWER ONE-LINE NOTES
EP1 UTILIZE THE THREE EXISTING 100A/3P CIRCUIT BREAKERS IN EXISTING PANEL 8-NAB-1 THAT POWERING EXISTING PANELBOARDS THAT WERE DEMOLISHED UNDER THIS PROJECT TO POWER THREE NEW PANELBOARDS AS SHOWN. PROVIDE NEW FEEDERS AS SHOWN.
EP2 PANEL FED FROM DOUBLE FEED LUGS IN NEW PANELBOARD A7-EQ-1 TO POWER NEW PANELBOARD 8EQB1. PROVIDE NEW FEEDER AS SHOWN.
EP3 PANEL FED FROM NEW 100A/3P BREAKER IN NEW PANELBOARD A7-EQ-1. NEW PANELBOARD 8EQ21 IS BEING RELOCATED. PROVIDE NEW FEEDER AS SHOWN.
EP4 POWER NEW PANELBOARD 8LS11 FROM EXISTING PANELBOARD A-ELSB-2 IN BUILDING 7. PROVIDE A NEW 60A/3P CIRCUIT BREAKER IN EXISTING PANELBOARD A-ELSB-2. PROVIDE NEW FEEDER AS SHOWN.
EP5 CONTRACTOR TO REPLACE EXISTING 150A/3P BREAKER IN PANEL 2-EQDP-1 WITH A NEW 225A/3P BREAKER. PANEL 2-EQDP-1 IS LOCATED IN BUILDING 2 ROOM 82 AND IS A WESTINGHOUSE COP PANEL. BREAKER SHALL BE RATED AT 65KAIC. FEEDER TO REMAIN.

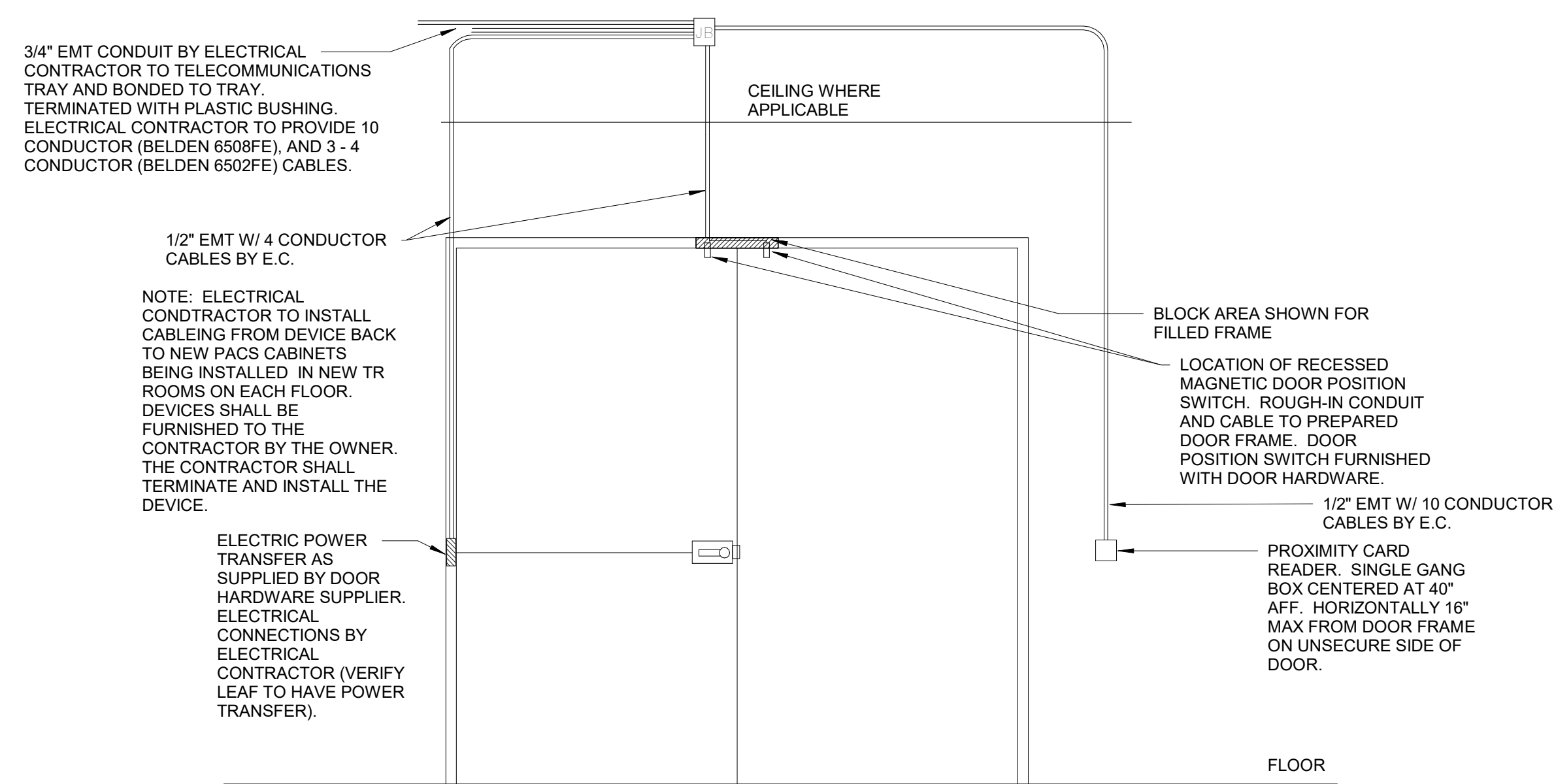
3 NEW POWER ONE-LINE DIAGRAM
NO SCALE



ACCESS CONTROL SINGLE DOOR PANIC DEVICE DETAIL
ALL WIRING TO BE YELLOW CASING



ACCESS CONTROL SINGLE DOOR LEVER DEVICE DETAIL
ALL WIRING TO BE YELLOW CASING

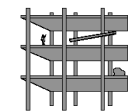


ACCESS CONTROL DOUBLE DOOR DETAIL
DOOR ROUGH-IN ONLY
ALL WIRING TO BE YELLOW CASING

4 DOOR DETAILS
NO SCALE

CONSULTANTS

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STEPHEN KILBER



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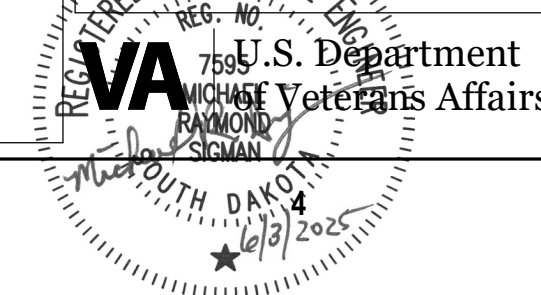
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STONE GROUP
ARCHITECTS

STAMP

Office of
Construction
and Facilities
Management



Drawing Title
ELECTRICAL DETAILS

Approved
DOUG SPRINKLE

Phase

FULLY SPRINKLERED

Project Title

DOM RENOVATION FOR
SEMPRIVATE ROOMS

Location
HOT SPRINGS, SOUTH DAKOTA

Issue Date
06/03/2025

Checked
MRS

Drawn
VLS

Project Number
VA #568A4-21-208
SGA #BR21039
Building Number
8

Drawing Number
EJ-402

STARTER DISCONNECT SCHEDULE

[illegible]

SEE NOTES ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED BELOW.

LIGHTING			
CEILING SURFACE MOUNT FIXTURE (CONDUIT AND WIRE TYPE SPECIFIED) RECESSED FIXTURE EMERGENCY RECESSED FIXTURE DOUBLE POLE SWITCH (40" M.H.) THREE-WAY SWITCH (40" M.H.) FOUR-WAY SWITCH (40" M.H.) SWITCH WITH PILOT (40" M.H.) KEY-OPERATED SWITCH (40" M.H.) NONFERROUS CONTACT SWITCH (60" M.H.) DIMMER SWITCH (40" M.H.) TIMER SWITCH (60" M.H.) VARIABLE SPEED SWITCH FUSED SWITCH	BLANK OUTLET JUNCTION BOX PULL BOX MOTOR DISCONNECT SWITCH GENERATOR ANNUNCIATOR PANEL AUTOMATIC TRANSFER SWITCH VARIABLE FREQUENCY DRIVE COMBINATION VARIABLE FREQUENCY DRIVE DISCONNECT MAGNETIC STARTER COMBINATION STARTER/DISCONNECT MOTOR THERMAL SWITCH TRANSFORMER ELECTRIC METER SWITCHBOARD/DISTRIBUTION PANEL PANELBOARD OR LOAD CENTER PANELBOARD OR LOAD CENTER (EXISTING TO REMAIN) TRANSFERABLE LOAD SURGE SUPPRESSOR CIRCUIT BREAKER FUSE HUMIDISTAT THERMOSTAT	OCCUPANCY SENSOR SINGLE POLE SWITCH (40" M.H.) DOUBLE POLE SWITCH (40" M.H.) THREE-WAY SWITCH (40" M.H.) FOUR-WAY SWITCH (40" M.H.) SWITCH WITH PILOT (40" M.H.) KEY-OPERATED SWITCH (40" M.H.) NONFERROUS CONTACT SWITCH (60" M.H.) DIMMER SWITCH (40" M.H.) TIMER SWITCH (60" M.H.) VARIABLE SPEED SWITCH FUSED SWITCH	
POWER			
PUSH BUTTON STATION (60" M.H.) DOUBLE PUSH BUTTON STATION EMERGENCY SHUTDOWN PUSH-BUTTON ISOLATED GROUND RECEPTACLE (15" M.H.) SINGLE CONVENIENCE RECEPTACLE (15" M.H.) DUPLEX CONVENIENCE RECEPTACLE (15" M.H.) DUPLEX CONVENIENCE RECEPTACLE (15" M.H.) SPLIT WIRED DUPLEX CONVENIENCE RECEPTACLE (15" M.H.) SPECIAL CONVENIENCE RECEPTACLE POWER RECEPTACLE EMERGENCY DUPLEX RECEPTACLE TWIST LOCK RECEPTACLE DUPLEX DUPLEX CONVENIENCE RECEPTACLE DUPLEX DUPLEX CONVENIENCE RECEPTACLE SPECIAL PURPOSE OUTLET OR CONNECTION CORD PLUG CORD ROLL CEILING DUPLEX RECEPTACLE FLUSH FLOOR DUPLEX RECEPTACLE FLUSH FLOOR DUPLEX DUPLEX RECEPTACLE FLUSH FLOOR MULTI-SERVICE OUTLET (WITH DEVICES INDICATED) MULTI-SERVICE PLUG (WITH DEVICES INDICATED)	BLANK OUTLET JUNCTION BOX PULL BOX MOTOR DISCONNECT SWITCH GENERATOR ANNUNCIATOR PANEL AUTOMATIC TRANSFER SWITCH VARIABLE FREQUENCY DRIVE COMBINATION VARIABLE FREQUENCY DRIVE DISCONNECT MAGNETIC STARTER COMBINATION STARTER/DISCONNECT MOTOR THERMAL SWITCH TRANSFORMER ELECTRIC METER SWITCHBOARD/DISTRIBUTION PANEL PANELBOARD OR LOAD CENTER PANELBOARD OR LOAD CENTER (EXISTING TO REMAIN) TRANSFERABLE LOAD SURGE SUPPRESSOR CIRCUIT BREAKER FUSE HUMIDISTAT THERMOSTAT	REMOTE HVAC SENSOR RADIANT HEAT PANEL BASEBOARD OR COVE ELECT. HEAT ELECTRIC UNIT HEATER ELECTRIC CABINET UNIT HEATER MOTORIZED DAMPER BUS DUCT SURFACE MOUNT RACEWAY CEILING PADDLE FAN TYPE OF EQUIPMENT - SEE SCHEDULES EQUIPMENT NUMBER ROOF TOP EQUIPMENT/CIRCLING EXISTING EQUIPMENT/CIRCLING GROUND CONDUIT IN FLOOR OR UNDERGROUND	PH-1.2.3 CONDUIT IN WALL OR CEILING SPACE. CROSS MARKS INDICATE NUMBER OF WIRES. NO MARKS INDICATE TWO WIRES. ARROWS INDICATE HOME RUNS TO PANEL. NUMBERS INDICATE PANEL AND CIRCUIT IN PANEL. 1 SWITCH 2 TRAVELER 3 HOT NEUTRAL WIRE INDICATES SEPARATE GROUND WIRE TO BE INSTALLED IN RACEWAY
TELECOM			
SPECIAL EQUIPMENT CABINET AS NOTED TERMINATION BOARD AS NOTED CABLE TRAY	INTERCOM TELEPHONE/VOICE OUTLET (15" M.H.) WALL PHONE (40" M.H.) DATA OUTLET (15" M.H.)	CEILING MOUNT VIDEO/DATA OUTLET (15" M.H.) COMBINATION VIDEO/DATA OUTLET (15" M.H.) TELEVISION OUTLET (15" M.H.) CEILING MOUNT TELEVISION OUTLET	
FIRE ALARM			
FIRE ALARM MANUAL STATION (40" M.H.) HEAT DETECTOR (RATE OF RISE) HEAT DETECTOR (FIXED TEMP. ONLY) UNITARY TYPE SMOKE DETECTOR SMOKE DETECTOR DUCT SMOKE DETECTOR BEAM DETECTOR TRANSMITTER BEAM DETECTOR RECEIVER REMOTE TEST STATION COMB HEAT/SMOKE ALARM FLOW SWITCH	PRESSURE SWITCH TAMPERS SWITCH FIRE ALARM CUT-OFF RELAY REMOTE ANNUNCIATOR DOOR HOLDER MONITOR MODULE CONTROL MODULE FIRE ALARM CHIME/STROBE FIRE ALARM HORN/STROBE (60" M.H.) CEILING MOUNT FIRE ALARM HORN/STROBE FIRE ALARM VOICE/STROBE (60" M.H.)	CEILING MOUNT FIRE ALARM VOICE/STROBE MINI FIRE ALARM HORN MINI FIRE ALARM HORN/STROBE PROJECTION HORN FIRE ALARM STROBE (60" M.H.) CEILING MOUNT FIRE ALARM STROBE FIRE ALARM BELL (60" M.H.) COMBINATION FIRE ALARM/STROBE FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM CONTROL PANEL FIRE FIGHTER PHONE JACK	
SECURITY			
FLUSH SPEAKER SURFACE SPEAKER PAGING HORN VOLUME CONTROL (40" M.H.) MICROPHONE OUTLET (15" M.H.) AUXILIARY OUTLET AMP CEILING MOUNT SURVEILLANCE VIDEO CAMERA	SURVEILLANCE VIDEO CAMERA SURVEILLANCE VIDEO MONITOR SURVEILLANCE VIDEO RECORDER SURVEILLANCE VIDEO SWITCHER ALARM CONTROL PANEL BURGLAR ALARM ANNUNCIATOR ANTENNA (AS NOTED) ALARM PANIC SWITCH	ALARM DOOR SWITCH DOOR RELEASE MECHANISM ALARM MOTION DETECTOR ALARM SHUNT PAD ALARM KEYPAD CARD READER SECURITY INTERCOM (54" M.H.) REQUEST EXIT PUSH BUTTON	

UNIT TYPE	UNIT NUMBER	KW	HP	MCA	VOLTAGE	PHASES	STARTER TYPE	NEMA SIZE	ENCLOSURE TYPE	CONTROL	DISCONNECT SWITCH SIZE	DISCONNECT FUSE SIZE	COMMENTS
CH	1			159 A	208 V	3			-		30A/2P/NEMA 3R/F	PER NEC	NOTE 1, 7
CP	1A	7.5 hp			208 V	3	VFD	-	NEMA 1	TC SYSTEM	-	-	NOTE 6
CP	1B	7.5 hp			208 V	3	VFD	-	NEMA 1	TC SYSTEM	-	-	NOTE 6
CP	2A	5 hp			208 V	3	VFD	-	NEMA 1	TC SYSTEM	-	-	NOTE 6
CP	2B	5 hp			208 V	3	VFD	-	NEMA 1	TC SYSTEM	-	-	NOTE 6
ELEV. LIGHTS				0 A	120 V	2							
ELEV. POWER		25 hp	0 A		208 V	3							
FC	1-01		9 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-02		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-03		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-04		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-05		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-06		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-07		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-08		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-09		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-10A		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-10B		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-10C		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	1-11		9 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-01		9 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-02		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-03		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-04		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-05		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-06		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-07		7 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-08		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-09		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-10A		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-10B		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-10C		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-11A		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	2-11B		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-01		9 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-02		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-03		9 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-04		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-05		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-06		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-07		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-08		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-09		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-10		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-11		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-12		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-13		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-14		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-15		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-16		9 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-17A		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-17B		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-17C		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
FC	B-18		4 A	120 V	1	-	-	-	-	TC SYSTEM	-	-	NOTE 2
GF	1				120 V	1	-	-	-	-	-	-	NOTE 3
GF	2				120 V	1	-	-	-	-	-	-	NOTE 3
HX	1	0.6 hp	7 A		208 V	1	-	-	-	TC SYSTEM	30A/2P/F/NEMA 1	PER NEC	NOTE 1
HX	2	0.6 hp	7 A		208 V	1	-	-	-	TC SYSTEM	30A/2P/F/NEMA 1	PER NEC	NOTE 1
HX	3	0.6 hp	7 A		208 V	1	-	-	-	TC SYSTEM	30A/2P/F/NEMA 1	PER NEC	NOTE 1
PD	B-01	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-02	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-03	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-04	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-05	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-06	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-07	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-08	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-09	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-10	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-12	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-13	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-14	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-15	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-16	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-17A	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-17B	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-17C	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
PD	B-18	0.033 hp			120 V	1	MMS	-	NEMA 1	INTEGRAL	-	-	MOTOR THERMAL SWITCH
SP	2	0.4 hp			120 V	1	-	-	-	INTEGRAL	-	-	NOTE 5
SP	E1	0.4 hp			120 V	1	-	-	-	INTEGRAL	-	-	NOTE 5
UH	1	0.02 hp	1 A		120 V	1	MMS	-	NEMA 1	TC SYSTEM	-	-	MOTOR THERMAL SWITCH
UH	2	0.02 hp	1 A		120 V	1	MMS	-	NEMA 1	TC SYSTEM	-	-	MOTOR THERMAL SWITCH

COMMENTS:

1	FUSE PER MANUFACTURER'S RECOMMENDATIONS.
2	UNIT FURNISHED WITH INTEGRAL DISCONNECT SWITCH.
3	UNIT FURNISHED WITH CORD AND PLUG. E.C. TO PROVIDE RECEPTACLE.
4	REFER TO SPECIFIC NOTE ON PLANS.
5	PROVIDE LOCKABLE CIRCUIT BREAKER.
6	VFD FURNISHED BY TC CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
7	INDOOR FAN COIL UNIT DERIVES POWER FROM OUTDOOR CONDENSING UNIT

LIGHTING FIXTURE SCHEDULE


FIXTURE MARK	MANUFACTURER	MODEL	MOUNTING	TYPE	LUMENS AND WATTS	LPW	COMMENTS	ADDITIONAL MANUFACTURERS
A4	LITHONIA	ZBLT4-40L-ADP-EZ1-LP835	CEILING/RECESSED	LED	4197 LUMENS, 30.5 WATTS	137.81	2X4 VOLUMETRIC RECESSED FIXTURE, NOTE 1	COOPER, COLUMBIA, LSI
A4F	LITHONIA	ZBLT4-40L-ADP-EZ1-LP835-DGA24	CEILING/RECESSED	LED	4197 LUMENS, 30.50 WATTS	137.81	2X4 VOLUMETRIC RECESSED FIXTURE, CEILING FLANGE ACCESSORY, NOTE 1	COOPER, COLUMBIA, LSI
A5	LITHONIA	ZBLT4-48L-ADP-EZ1-LP835	CEILING/RECESSED	LED	5032 LUMENS, 39.3 WATTS	128.09	2X4 VOLUMETRIC RECESSED FIXTURE, NOTE 1	COOPER, COLUMBIA, LSI
B1	LITHONIA	ZBLT4-48L-ADP-EZ1-LP835-2X45MKSHSP P12	CEILING/SURFACE	LED	5032 LUMENS, 39.3 WATTS	130.5	2X4 VOLUMETRIC FIXTURE, SURFACE MOUNTING FRAME, NOTE 1	COOPER, COLUMBIA, LSI
C1	LITHONIA	ZL1D-L48-5000L-MFST-M/VOLT-35K-80CRI-WH-HC36 M12-WG248	SURFACE AND/OR CHAIN	LED	5456 LUMENS, 411 WATTS	133.07	CHAIN HUNG STRIP LIGHT, WIRE, GARD, NOTE 1	COOPER, COLUMBIA, LSI
DP	SPECTRUM	SGE8LED03S013K50D0101BH27AR8230SGSSGO	CEILING/RECESSED	LED	2519 LUMENS, 28 WATTS	90	8 INCH RECESSED CAN, NOTE 1	LITHONIA, COOPER, COLUMBIA, LSI
DS	SPECTRUM	SGE8LED02S013K50D0101BH27AR82230SGSSGOWL	CEILING/RECESSED	LED	1833 LUMENS, 20 WATTS	92	8 INCH RECESSED CAN, WET LOCATION, NOTE 1	LITHONIA, COOPER, COLUMBIA, LSI
F1	LITHONIA	ST1L-48L-EZ1-LP835	CEILING/SURFACE	LED	3834 LUMENS, 33.9 WATTS	107.3	SURFACE VOLUME WRAP FIXTURE, NOTE 1	COOPER, COLUMBIA, LSI
F2	LITHONIA	ST1L-48L-EZ1-LP835	CEILING/SURFACE	LED	4850 LUMENS, 43.2 WATTS	107.3	SURFACE VOLUME WRAP FIXTURE, NOTE 1	COOPER, COLUMBIA, LSI
FZ	LITHONIA	WL4-40L-EZ1-LP835-NOC	WALL/SURFACE	LED	1424 LUMENS, 39.5 WATTS	104	SURFACE WALL MOUNT LIGHT FIXTURE, NOTE 1	COOPER, COLUMBIA, LSI
W	LITHONIA	WST LED-P1-40W-MVOLT-0-PE-DBBXD	WALL/SURFACE	LED	1659 LUMENS, 12 WATTS	138	LED WALL MOUNT EXTERIOR LIGHT, NOTE 1	COOPER, COLUMBIA, LSI
X1	LITHONIA	LQM-2-W-3-R-120/27	UNIVERSAL	LED	0, 6.62 WATTS		EXIT SIGN, THERMOPLASTIC, PROVIDE ONE OR TWO SIDED AS REQUIRED PER THE DRAWINGS	SURE LITES, DUALITE, MULE

COMMENTS:

1	FIXTURES SUBMITTED FOR APPROVAL CANNOT BE MORE THAN 5% LESS EFFICIENT THAN THE FIXTURE SPECIFIED.
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1	BID DOCUMENTS	06/03/25
ISSUE #	DESCRIPTION	DATE

CONSULTANTS

<p><u>STRUCTURAL:</u> ALBERTSON ENGINEERING, INC. 3202 W. MAIN ST., #C RAPID CITY, SD 57702 605-343-9606 STEPHEN KILBER</p>	 <p>Albertson Engineering Inc.</p>	<p><u>MEP:</u> WEST PL 1750 RAND RAPID CIT 605-348-74 MIKE SIGM</p>
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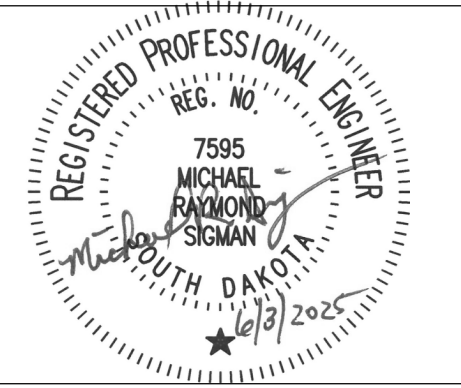
MEP:

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STAMP



Office of
Construction
and Facilities
Management

VA | U.S. Department
of Veterans Affairs

Drawing Title	ELECTRICAL SCHEDULES
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Approved
DOUG SPRINKLE

Phase
100% CONSTRUCTION
DOCUMENTS

FULLY SPRINKLERED

Project Title	DOM RENOVATION FOR SEMIPRIVATE ROOMS
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Location	HOT SPRINGS, SOUTH DAKOTA
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Checked

Project Number
VA #568A4-21-208
SGA #BR21039

Building Number

Drawing Number

EJ-403

A7-EQ-1		VOLTS:			120/208 Wye			PHASES:			3			WIRE:			4			MAIN CAPACITY:			225 A		
		A/C RATING:			22,000			LOCATION:						ARCADE			MAIN CONNECTION:			MLO					
		MOUNTING:			SURFACE			FEEDER SIZE:			SEE POWER ONE-LINE DIAGRAM						MAIN TYPE:			TYPE 1					
		WIRE SIZE	AMPS	POLES	A (WATTS)	B (WATTS)	C (WATTS)	POLES	AMPS	WIRE SIZE	ITEM FED	CKT													
1	EXISTING	E	20 A	1	0	0					1	20 A	E	EXISTING	2										
3	EXISTING	E	20 A	1		0	0				2	20 A	E	EXISTING	4										
5	EXISTING	E	20 A	2		0	0		0	0		1	20 A	E	EXISTING	6									
7						0	0				1	20 A	E	EXISTING	8										
9						0	0				1	20 A	E	EXISTING	10										
11	AHU-6 (EXISTING)	E	30 A	3			0	0								12									
13						0	0				3	100 A	2	PANEL 8EQ21	14										
15							0	0							16										
17	AHU-7 (EXISTING)	E	30 A	3				0	0						18										
19						0	0				3	100 A	-	SPARE	20										
21	SPARE	-	20 A	1			0	0							22										
23	SPARE	-	20 A	1				0	0		1	20 A	-	SPARE	24										
25	SPARE	-	20 A	1	0	0					1	20 A	-	SPARE	26										
27	SPARE	-	20 A	1			0	0			1	20 A	-	SPARE	28										
29	SPARE	-	20 A	1				0	0		1	20 A	-	SPARE	30										
31	SPACE	-	--	1	--	--					1	--	-	SPACE	32										
33	SPACE	-	--	1		--	--				1	--	-	SPACE	34										
35	SPACE	-	--	1				--	--		1	--	-	SPACE	36										
37	SPACE	-	--	1	--	--					1	--	-	SPACE	38										
39	SPACE	-	--	1		--	--				1	--	-	SPACE	40										
41	SPACE	-	--	1				--	--		1	--	-	SPACE	42										
TOTAL CONNECTED LOAD:					0 W		0 W		0 W		AMPS:		0 A		LOAD:		0 W								
NOTES: 1. PROVIDE WITH DOUBLE FEED LUGS TO FEED PANEL 8EQB1.																									

8NB1		VOLTS:		120/208 Wye		PHASES:		3		WIRE:		4		MAIN CAPACITY:		125 A	
		A/C RATING:		22,000		LOCATION:		ELEC B03		MAIN CONNECTION:		MLO		ENCLOSURE TYPE:		TYPE 1	
		MOUNTING:		SURFACE		FEEDER SIZE:		SEE POWER ONE-LINE DIAGRAM		WIRE SIZE		WIRE SIZE		ITEM FED		CKT	
		WIRE SIZE	AMPS	POLES	A (WATTS)	B (WATTS)	C (WATTS)	POLES	AMPS	WIRE SIZE	AMPS	POLES	WIRE SIZE	ITEM FED	CKT		
1	RM B14 REC'S.	12	20 A	1	900	180				1	20 A	12	RM. B07 TELE. CONF REC.(NOTE 2)	2			
3	RM. B14 MICRO REC. (NOTE 1)	12	20 A	1		1500	180			1	20 A	12	RM. B04 TELE. CONF REC.(NOTE 2)	4			
5	RM B14 COFFEE REC.(NOTE 1)	12	20 A	1				1500	900	1	20 A	12	RMS. B00, B04 REC'S.	6			
7	RM B14 REC.	12	20 A	1	360	540				1	20 A	12	RMS. B00, B01 REC'S. (NOTE 2)	8			
9	RM B14 REF. REC.	12	20 A	1		1200	900			1	20 A	12	RMS. B03, B04 REC'S. (NOTE 2)	10			
11	RM. B13 REC'S.	12	20 A	1				1080	1695	2	20 A	12	ACU-1	12			
13	RM. B12 REC'S.	12	20 A	1	1080	1695				1	20 A	-	SPARE	14			
15	RM. B15 TELE. ONF REC.(NOTE 2)	12	20 A	1		180	0			1	20 A	-	SPARE	16			
17	RM. B11 REC'S.	12	20 A	1				1080	977	1	20 A	12	BASEMENT LIGHTING	18			
19	RM. B15, B15A REC'S. (NOTE 2)	12	20 A	1	1260	1862				1	20 A	12	BASEMENT LIGHTING	20			
21	RMS. B16, B17 REC'S.	12	20 A	1		1260	180			1	20 A	12	EXTERIOR REC.	22			
23	RM. B16 REC'S.	12	20 A	1				1080	1500	1	20 A	12	BASEMENT EWC.(NOTE 1)	24			
25	RM. B19 REC'S.	12	20 A	1	1080	0				1	20 A	-	SPARE	26			
27	RMS. B00, B20 REC'S. (NOTE 2)	12	20 A	1		360	0			1	20 A	-	SPARE	28			
29	RM. B08 REC'S	12	20 A	1				1080	0	1	20 A	-	SPARE	30			
31	RM. B07 REC'S. (NOTE 2)	12	20 A	1	1080	0				1	20 A	-	SPARE	32			
33	RMS. B20, B10 REC'S.	12	20 A	1		1260	0			1	20 A	-	SPARE	34			
35	RM. B06 TELE. CONF. REC.	12	20 A	1				180	0	1	20 A	-	SPARE	36			
37	RMS. B04, B05 REC'S. (NOTE 2)	12	20 A	1	720	0				1	20 A	-	SPARE	38			
39	RM. B05 REC'S. (NOTE 2)	12	20 A	1		360	0			1	20 A	-	SPARE	40			
41	RMS. B04, B04A REC'S. (NOTE 2)	12	20 A	1				720	0	1	20 A	-	SPARE	42			
TOTAL CONNECTED LOAD:					10757 W		7380 W		11792 W		AMPS: 83 A		LOAD: 29928.63 W				
NOTES: 1. PROVIDE GFCI TYPE CIRCUIT BREAKER. 2. PROVIDE AFCI TYPE CIRCUIT BREAKER.																	

8LS11		VOLTS:		120/208 Wye		PHASES:		3		WIRE:		4		MAIN CAPACITY:		125 A	
		AIC RATING:		22,000		LOCATION:		ELEC 103		MAIN CONNECTION:		60A MCB					
		MOUNTING:		SURFACE		FEEDER SIZE:		SEE POWER ONE-LINE DIAGRAM		ENCLOSURE TYPE:		TYPE 1					
CKT	ITEM FED	WIRE SIZE	AMPS	POLES	A (WATTS)	B (WATTS)	C (WATTS)	POLES	AMPS	WIRE SIZE	ITEM FED	CKT					
1	BASEMENT EMERG. LIGHTING	12	20 A	1	76	108				1	20 A	12	EXTERIOR LIGHTING	2			
3	BASEMENT EMERG. LIGHTING	12	20 A	1		389	1000			1	20 A	12	ELEV. SMOKE CURTAINS & PNL.	4			
5	FIRST FLOOR EMERG. LIGHTING	12	20 A	1			551	1000		1	20 A	12	ELEC 103 FAPS	6			
7	SECOND FLOOR EMERG. LTG.	12	20 A	1	543	1000				1	20 A	12	ELEC 203 FAPS	8			
9	SPARE	-	20 A	1		0	--			1	--	-	SPACE	10			
11	SPARE	-	20 A	1			0	--		1	--	-	SPACE	12			
13	SPARE	-	20 A	1	0	--				1	--	-	SPACE	14			
15	SPARE	-	20 A	1		0	--			1	--	-	SPACE	16			
17	SPARE	-	20 A	1			0	--		1	--	-	SPACE	18			
19	SPARE	-	20 A	1	0	--				1	--	-	SPACE	20			
21	SPARE	-	20 A	1		0	--			1	--	-	SPACE	22			
23	SPACE	-	--	1			--	--		1	--	-	SPACE	24			
25	SPACE	-	--	1	--	--				1	--	-	SPACE	26			
27	SPACE	-	--	1		--	--			1	--	-	SPACE	28			
29	SPACE	-	--	1			--	--		1	--	-	SPACE	30			
31	SPACE	-	--	1	--	--				1	--	-	SPACE	32			
33	SPACE	-	--	1		--	--			1	--	-	SPACE	34			
35	SPACE	-	--	1			--	--		1	--	-	SPACE	36			
37	SPACE	-	--	1	--	--				1	--	-	SPACE	38			
39	SPACE	-	--	1		--	--			1	--	-	SPACE	40			
41	SPACE	-	--	1			--	--		1	--	-	SPACE	42			
TOTAL CONNECTED LOAD:					1727 W	1389 W	1551 W	AMPS:	10 A	LOAD:	3667 W						
NOTES: 1. PROVIDE LOCKABLE CIRCUIT BREAKER.																	

8EQ21		VOLTS:		120/208 Wye		PHASES:		3		WIRE:		4		MAIN CAPACITY:		125 A	
		AIC RATING:		22,000		LOCATION:		ELEC 203		MAIN CONNECTION:		MLO		ENCLOSURE TYPE:		TYPE 1	
		MOUNTING:		SURFACE		FEEDER SIZE:		SEE POWER ONE-LINE DIAGRAM		WIRE SIZE		WIRE SIZE		ITEM FED		CKT	
CKT	ITEM FED	WIRE SIZE	AMPS	POLES	A (WATTS)	B (WATTS)	C (WATTS)	POLES	AMPS	WIRE SIZE	WIRE SIZE	ITEM FED	CKT				
1	SPARE	-	20 A	1	0	0				1	20 A	-	SPARE	2			
3	SPARE	-	20 A	1		0	720			1	20 A	12	SMOKE DAMPERS FLOOR 1	4			
5	SPARE	-	20 A	1			0	1080		1	20 A	12	SMOKE DAMPERS FLOOR 2	6			
7	FC-1-1 & FC-1-10A (NOTE 2)	12	20 A	1	1584	0				1	20 A	-	SPARE	8			
9	FC-1-2, FC-1-3 (NOTE 2)	12	20 A	1		1584	0			1	20 A	-	SPARE	10			
11	FC-1-6 & FC-1-7 (NOTE 2)	12	20 A	1			1584	0		1	20 A	-	SPARE	12			
13	FC-1-10B & FC-1-10C (NOTE 2)	12	20 A	1	1056	--				1	--	-	SPACE	14			
15	FC-1-8 & FC-1-9 (NOTE 2)	12	20 A	1		1056	--			1	--	-	SPACE	16			
17	FC-1-11 (NOTE 2)	12	20 A	1				1056	--	1	--	-	SPACE	18			
19	FC-2-10A & FC-2-10B (NOTE 2)	12	20 A	1	1056	0				1	20 A	-	SPARE	20			
21	FC-2-1 (NOTE 2)	12	20 A	1		1056	--			1	--	-	SPACE	22			
23	FC-2-2, FC-2-3 (NOTE 2)	12	20 A	1			1584	--	1	--	-	SPACE	24				
25	FC-2-6 & FC-2-7 (NOTE 2)	12	20 A	1	1584	--				1	--	-	SPACE	26			
27	FC-2-8 & FC-2-10C (NOTE 2)	12	20 A	1		1056	--			1	--	-	SPACE	28			
29	FC-2-9,FC-2-11A,FC-211B(NOTE 2)	12	20 A	1			1584	--	1	--	-	SPACE	30				
31	HX-2	10	20 A	2	739	--	739	--	739	--	1	--	SPACE	32			
33																	
35	HX-3	10	20 A	2	739	--	739	--	739	--	1	--	SPACE	36			
37																	
39	FC-1-4 & FC-1-5 (NOTE 2)	12	20 A	1		1584	--			1	--	-	SPACE	40			
41	FC-2-4, FC-2-5 (NOTE 2)	12	20 A	1			1584	--	1	--	-	SPACE	42				
TOTAL CONNECTED LOAD:					6757 W	7795 W	9211 W	AMPS:	66 A	LOAD:	23762 W						
NOTES: 1. PROVIDE LOCKABLE CIRCUIT BREAKER. 2. PROVIDE AFCI TYPE CIRCUIT BREAKER.																	

