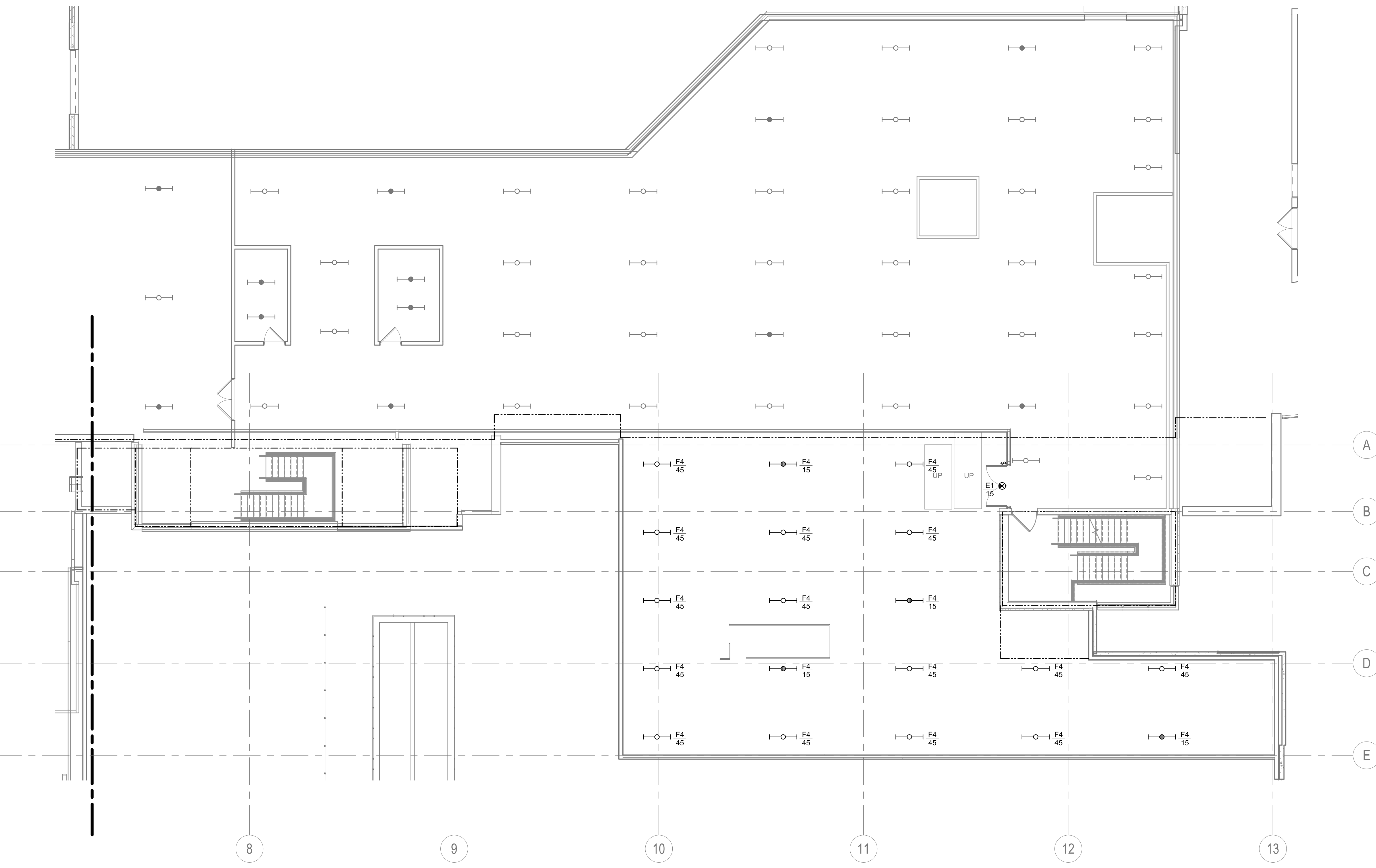
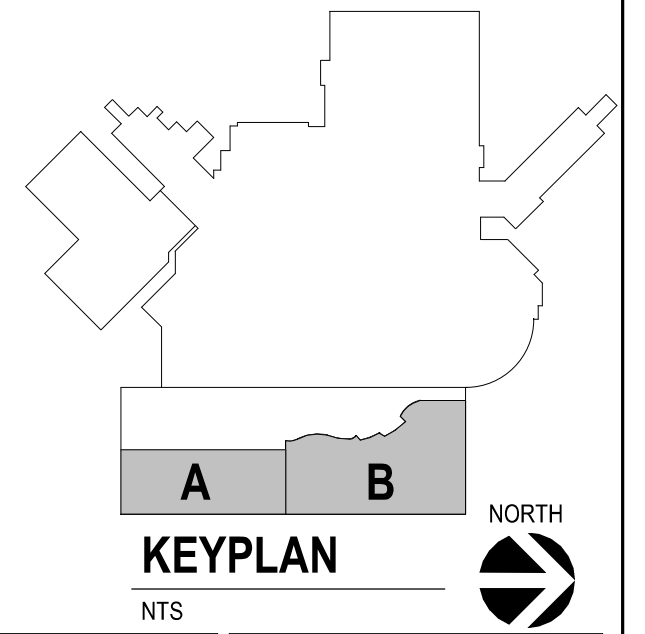


**GENERAL NOTES:**

- A. BUILDING WILL BE IN USE DURING CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTION. TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND SIGNAL SYSTEMS) SHALL BE INSTALLED IF ONE AREA OR PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING(S) OR IF THE EQUIPMENT, CONDUITS, OR FEEDERS HAVE TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. THERE SHALL BE DESIGNATED AREAS WHERE INTERRUPTIONS LIMITED TO AND SHALL BE CONDUCTED AFTER HOURS (6:00 PM - 6:00 AM) MONDAY THROUGH SATURDAY. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION WHICH EXISTED PRIOR TO THE INTERRUPTION.
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- F. PATCH ALL INTERSTITIAL PENETRATION VOIDS RESULTING FROM DEMOLITION WORK. SEE ARCHITECTURAL DRAWINGS FOR PATCHING DETAILS. MAINTAIN FLOOR AND WALL RATINGS.
- G. DEMOLISH HOME RUN WIRING BACK TO SOURCE UNLESS NOTED OTHERWISE. DO NOT LEAVE CONDUCTORS ABANDONED IN WIREWAY SYSTEMS LOCATED WITHIN THE INTERSTITIAL SPACES.
- H. NORMAL POWER ELECTRICAL DEVICES ARE CIRCUITED TO PANEL LNSM2.1A. LIFE SAFETY DEVICES ARE CIRCUITED TO PANEL LSESM2.1.



1 FIRST FLOOR LIGHTING PLAN - AREA B  
1/8" = 1'-0"



Revision#	Description	Date:

**CONSULTANTS**

<b>ARCHITECTURAL:</b> BWB 380 St. Peter St Suite 600 St. Paul, MN 55102 Phone: 651-223-3761	<b>STRUCTURAL:</b> ERA 2250 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-1770	<b>MEP:</b> DUNHAM 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-685-7550 0421950-002-00	<b>CIVIL:</b> EVS 10025 Valley View Rd Suite 140 Eden Prairie, MN 55344 Phone: 952-646-0239	<b>LANDSCAPE:</b> CONFLUENCE 224 N Main Ave Suite 201 Sioux Falls, SD 57104 Phone: 605-339-1205
--	--	--	--	--

**ARCHITECT OF RECORD**

**A/E:**  
Stone Group Architects  
600 E 7th Street  
Sioux Falls, SD 57103  
605-271-1144

**STAMP**

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans Affairs

Drawing Title  
**FIRST FLOOR LIGHTING PLAN - AREA B**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**NEW FRONT LOBBY AND PRIMARY CARE ADDITION**

Location  
**SIoux FALLS, SOUTH DAKOTA**

Issue Date  
06/22/2022

Checked  
CB

Drawn  
BZ

Project Number  
VA #438-480  
SGA #201909

Building Number  
5

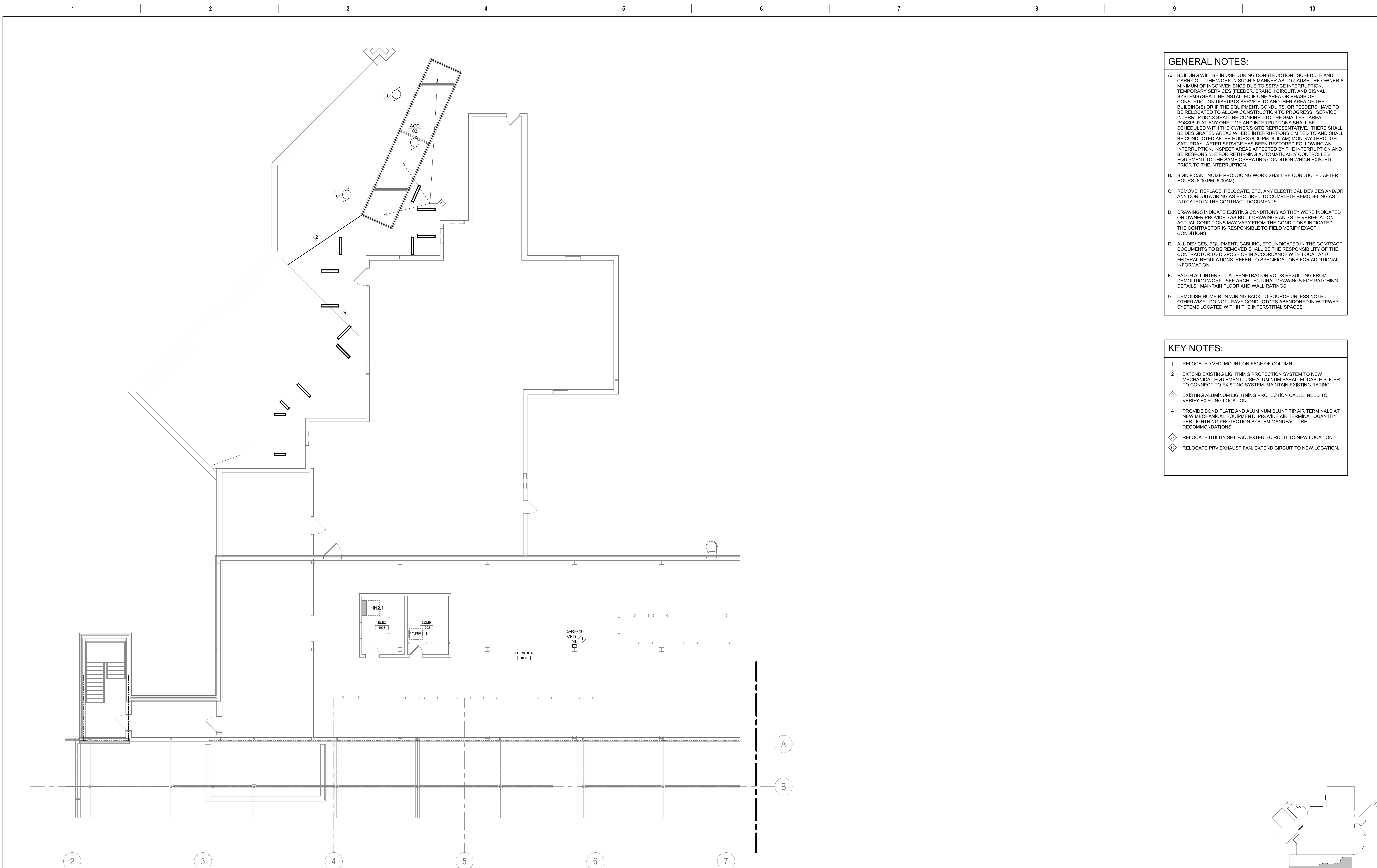
Drawing Number  
EL112

**GENERAL NOTES:**

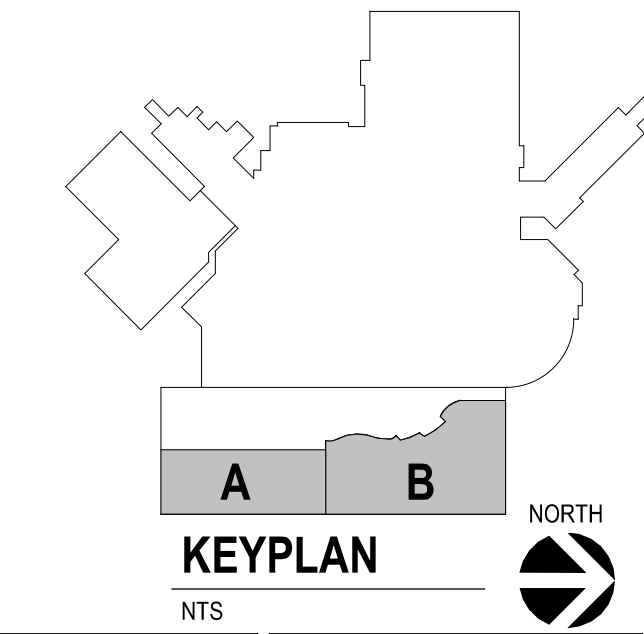
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- G. DEMOLISH HOME RUN WIRING BACK TO SOURCE UNLESS NOTED OTHERWISE. DO NOT LEAVE CONDUCTORS ABANDONED IN WIREWAY SYSTEMS LOCATED WITHIN THE INTERSTITIAL SPACES.

**KEY NOTES:**

- ① RELOCATED VFD, MOUNT ON FACE OF COLUMN.
- ② EXTEND EXISTING LIGHTNING PROTECTION SYSTEM TO NEW MECHANICAL EQUIPMENT. USE ALUMINUM PARALLEL CABLE SLICER TO CONNECT TO EXISTING SYSTEM. MAINTAIN EXISTING RATING.
- ③ EXISTING ALUMINUM LIGHTNING PROTECTION CABLE. NEED TO VERIFY EXISTING LOCATION.
- ④ PROVIDE BOND PLATE AND ALUMINUM BLUNT TIP AIR TERMINALS AT NEW MECHANICAL EQUIPMENT. PROVIDE AIR TERMINAL QUANTITY PER LIGHTNING PROTECTION SYSTEM MANUFACTURER RECOMMENDATIONS.
- ⑤ RELOCATE UTILITY SET FAN. EXTEND CIRCUIT TO NEW LOCATION.
- ⑥ RELOCATE PRV EXHAUST FAN. EXTEND CIRCUIT TO NEW LOCATION.



1 FIRST FLOOR POWER PLAN - AREA A  
1/8" = 1'-0"



Revision#	Description	Date:

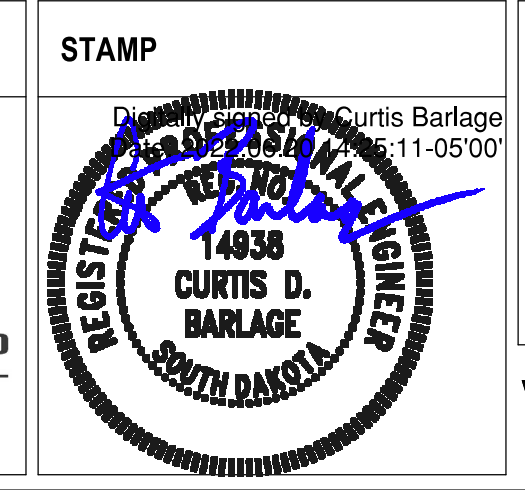
**CONSULTANTS**

<b>ARCHITECTURAL:</b> BWB 380 St. Peter St Suite 600 St. Paul, MN 55102 Phone: 651-223-3761	<b>STRUCTURAL:</b> ERA 2250 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-1770	<b>MEP:</b> DUNHAM 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-685-7550 0421950-002-00	<b>CIVIL:</b> EVS 10025 Valley View Rd Suite 140 Eden Prairie, MN 55344 Phone: 952-646-0239	<b>LANDSCAPE:</b> CONFLUENCE 224 N Main Ave Suite 201 Sioux Falls, SD 57104 Phone: 605-339-1205
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**ARCHITECT OF RECORD**

**A/E:**  
Stone Group Architects  
600 E 7th Street  
Sioux Falls, SD 57103  
605-271-1144

**STONE GROUP ARCHITECTS**



Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR POWER PLAN - AREA A**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**NEW FRONT LOBBY AND PRIMARY CARE ADDITION**

Location  
**SIoux FALLS, SOUTH DAKOTA**

Issue Date  
06/22/2022

Checked  
CB

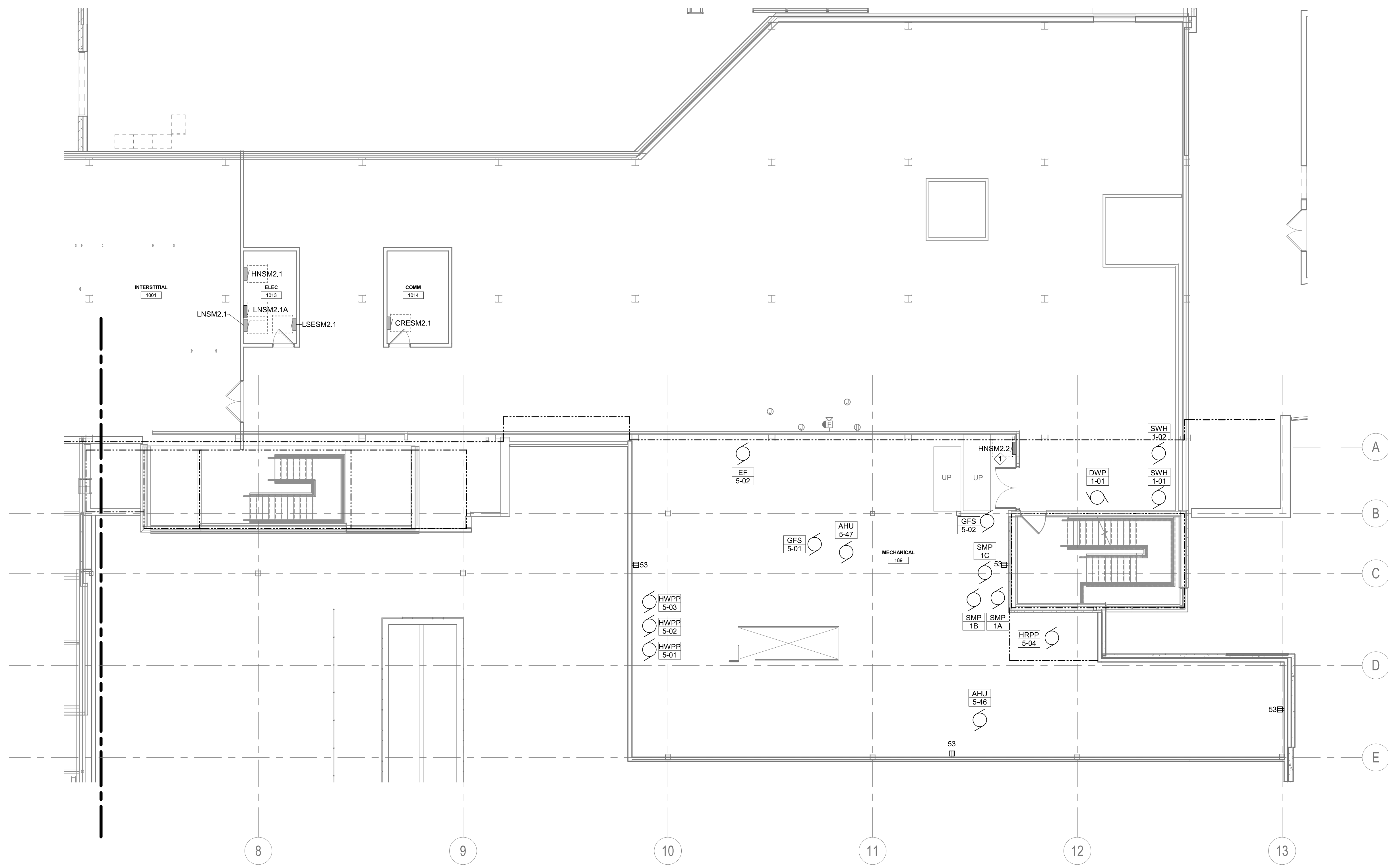
Drawn  
BZ

Project Number  
VA #438-480  
SGA #201909

Building Number  
5

Drawing Number  
EP111

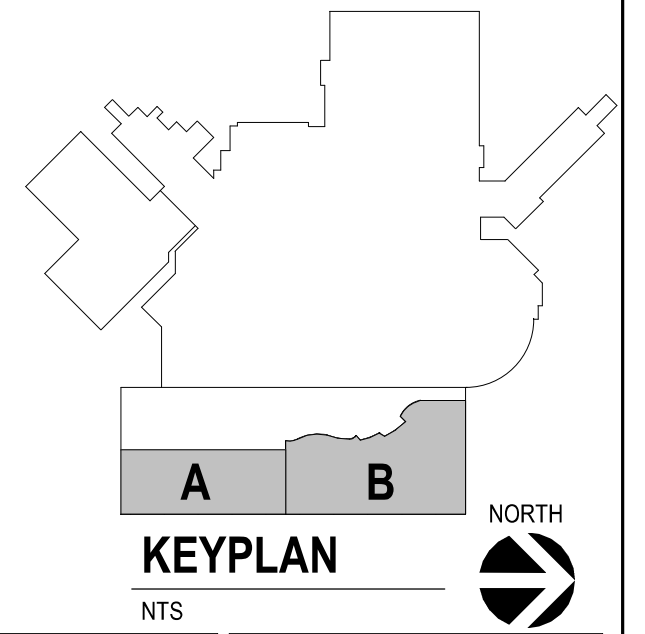
Three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 one quarter inch = one foot  
 three eighths inch = one foot  
 one eighth inch = one foot



1 FIRST FLOOR POWER PLAN - AREA B  
 1/8" = 1'-0"

- GENERAL NOTES:**
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  - G. DEMOLISH HOME RUN WIRING BACK TO SOURCE UNLESS NOTED OTHERWISE. DO NOT LEAVE CONDUCTORS ABANDONED IN WIREWAY SYSTEMS LOCATED WITHIN THE INTERSTITIAL SPACES.
  - H. NORMAL POWER ELECTRICAL DEVICES ARE CIRCUITED TO PANEL LNSM2.1A. LIFE SAFETY DEVICES ARE CIRCUITED TO PANEL LSESM2.1.

- KEY NOTES:**
- ◇ PROVIDE PANEL IN NEW INTERSTITIAL MECHANICAL ROOM.



Revision#	Description	Date:

**CONSULTANTS**

<b>ARCHITECTURAL:</b> BWB 380 St. Peter St Suite 600 St. Paul, MN 55102 Phone: 651-223-3761	<b>STRUCTURAL:</b> ERA 2250 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-1770	<b>MEP:</b> DUNHAM 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-665-7550 0421950-002-00	<b>CIVIL:</b> EVS 10025 Valley View Rd Suite 140 Eden Prairie, MN 55344 Phone: 952-646-0239	<b>LANDSCAPE:</b> CONFLUENCE 224 N Main Ave Suite 201 Sioux Falls, SD 57104 Phone: 605-339-1205
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**ARCHITECT OF RECORD**

A/E  
**Stone Group Architects**  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144

**STAMP**

REGISTERED PROFESSIONAL ENGINEER  
 CURTIS D. BARLAGE  
 SOUTH DAKOTA  
 14838  
 25-05'00"

**Office of Construction and Facilities Management**

VA U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR POWER PLAN - AREA B**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**NEW FRONT LOBBY AND PRIMARY CARE ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
 06/22/2022

Checked  
 CB

Drawn  
 BZ

Project Number  
 VA #438-480  
 SGA #201909

Building Number  
 5

Drawing Number  
**EP112**

**GENERAL NOTES:**

- A. BUILDING WILL BE IN USE DURING CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTION. TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND SIGNAL SYSTEMS) SHALL BE INSTALLED IF ONE AREA OR PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING(S) OR IF THE EQUIPMENT, CONDUITS, OR FEEDERS HAVE TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNERS SITE REPRESENTATIVE. THERE SHALL BE DESIGNATED AREAS WHERE INTERRUPTIONS LIMITED TO AND SHALL BE CONDUCTED AFTER HOURS (8:00 PM-8:00 AM) MONDAY THROUGH SATURDAY. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION WHICH EXISTED PRIOR TO THE INTERRUPTION.
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**KEY NOTES:**

- ① EXISTING PUBLIC ADDRESS CONTROLLER. EXPAND TO SERVE NEW DEVICES.
- ② EXISTING JOHNSON CONTROLS SECURITY PANEL. PROVIDE HARDWARE, PROGRAMMING AND LICENSING AS REQUIRED FOR NEW DEVICES.
- ③ EXISTING NURSE CALL PANEL



1 FIRST FLOOR SYSTEMS PLAN - AREA A  
1/8" = 1'-0"

Revision#	Description	Date:

**CONSULTANTS**

<b>ARCHITECTURAL:</b> BWB 380 St. Peter St Suite 600 St. Paul, MN 55102 Phone: 651-223-3761	<b>STRUCTURAL:</b> ERA 2250 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-1770	<b>MEP:</b> DUNHAM 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-685-7550 0421950-002-00	<b>CIVIL:</b> EVS 10025 Valley View Rd Suite 140 Eden Prairie, MN 55344 Phone: 952-646-0239	<b>LANDSCAPE:</b> CONFLUENCE 224 N Main Ave Suite 201 Sioux Falls, SD 57104 Phone: 605-339-1205
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**ARCHITECT OF RECORD**

**A/E:**  
Stone Group Architects  
600 E 7th Street  
Sioux Falls, SD 57103  
605-271-1144

**STONE GROUP ARCHITECTS**

**STAMP**

REGISTERED PROFESSIONAL ENGINEER  
COURTIS D. BARLAGE  
37-05'00"  
SOUTH DAKOTA

Office of Construction and Facilities Management  
**VA** U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR SYSTEMS PLAN - AREA A**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**NEW FRONT LOBBY AND PRIMARY CARE ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
06/22/2022

Checked  
CB

Drawn  
BZ

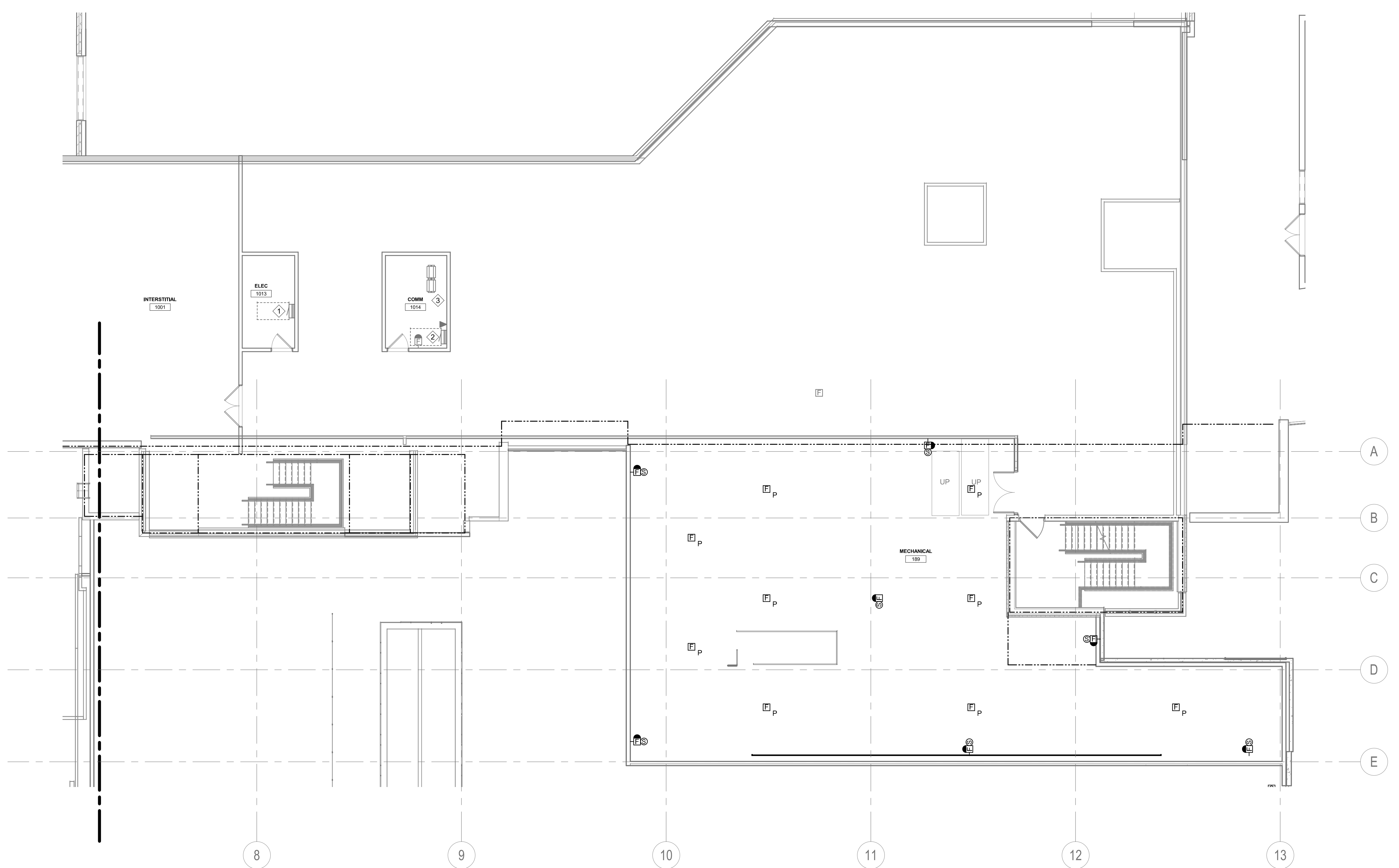
Project Number  
VA #438-480  
SGA #201909

Building Number  
5

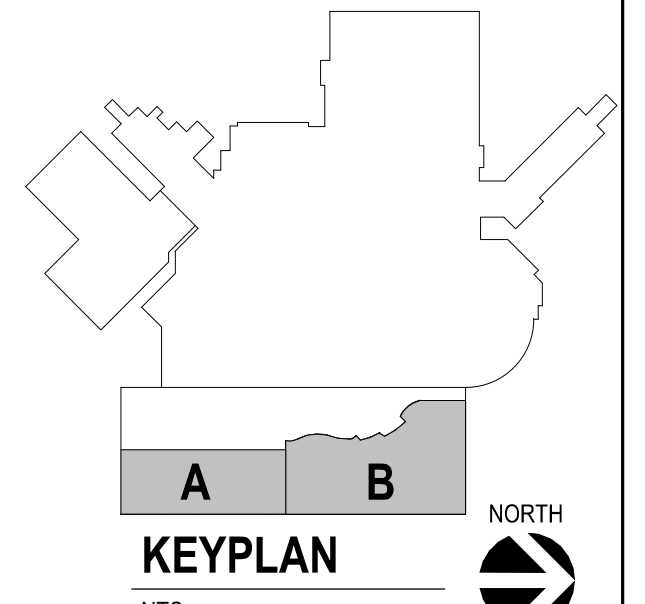
Drawing Number  
EY111

- GENERAL NOTES:**
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- KEY NOTES:**
- EXISTING FIRE ALARM CONTROL PANEL, EXPAND TO SERVE NEW DEVICES.
  - EXISTING NURSE CALL PANEL, EXPAND TO SERVE NEW DEVICES.
  - PROVIDE 5 48 PORT PATCH PANELS IN EXISTING RACK(S)



1 FIRST FLOOR SYSTEMS PLAN - AREA B  
1/8" = 1'-0"



<b>CONSULTANTS</b> ARCHITECTURAL: <b>BWB</b> STRUCTURAL: <b>ERA</b> MEP: <b>DUNHAM</b> CIVIL: <b>EVS</b> LANDSCAPE: <b>CONFLUENCE</b> <small>BWR: 380 St. Peter St, Suite 600, St. Paul, MN 55102, Phone: 651-223-3761          ERA: 2250 University Ave W, Suite 423-S, St. Paul, MN 55402, Phone: 651-251-1770          DUNHAM: 50 South Sixth St, Suite 1100, Minneapolis, MN 55402, Phone: 612-685-7550          EVS: 10025 Valley View Rd, Suite 140, Eden Prairie, MN 55344, Phone: 952-646-0239          CONFLUENCE: 224 N Main Ave, Suite 201, Sioux Falls, SD 57104, Phone: 605-339-1205</small>		<b>ARCHITECT OF RECORD</b> <b>A/E:</b> <b>Stone Group Architects</b> 600 E 7th Street Sioux Falls, SD 57103 605-271-1144 		<b>STAMP</b> REGISTERED PROFESSIONAL ENGINEER CURTIS D. BARLAGE SOUTH DAKOTA 48-05'00"		<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs		Drawing Title <b>FIRST FLOOR SYSTEMS PLAN - AREA B</b> Approved:		Phase <b>CONSTRUCTION DOCUMENTS</b>		Project Title <b>NEW FRONT LOBBY AND PRIMARY CARE ADDITION</b>		Project Number <b>VA #438-480 SGA #201909</b>	
Revision#    Description    Date:		<b>ARCHITECT OF RECORD</b> <b>Stone Group Architects</b> 600 E 7th Street Sioux Falls, SD 57103 605-271-1144 		<b>STAMP</b> REGISTERED PROFESSIONAL ENGINEER CURTIS D. BARLAGE SOUTH DAKOTA 48-05'00"		<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs		Drawing Title <b>FIRST FLOOR SYSTEMS PLAN - AREA B</b> Approved:		Phase <b>CONSTRUCTION DOCUMENTS</b>		Project Title <b>NEW FRONT LOBBY AND PRIMARY CARE ADDITION</b>		Project Number <b>VA #438-480 SGA #201909</b>	
										Location <b>SIoux FALLS, SOUTH DAKOTA</b>		Building Number <b>5</b>			
										Issue Date <b>06/22/2022</b>		Drawing Number <b>EY112</b>			
										Checked <b>CB</b>		Drawn <b>BZ</b>			

3/8" = 1'-0" (A)  
 1/2" = 1'-0" (B)  
 3/4" = 1'-0" (C)  
 1" = 1'-0" (D)  
 1 1/4" = 1'-0" (E)  
 1 1/2" = 1'-0" (F)

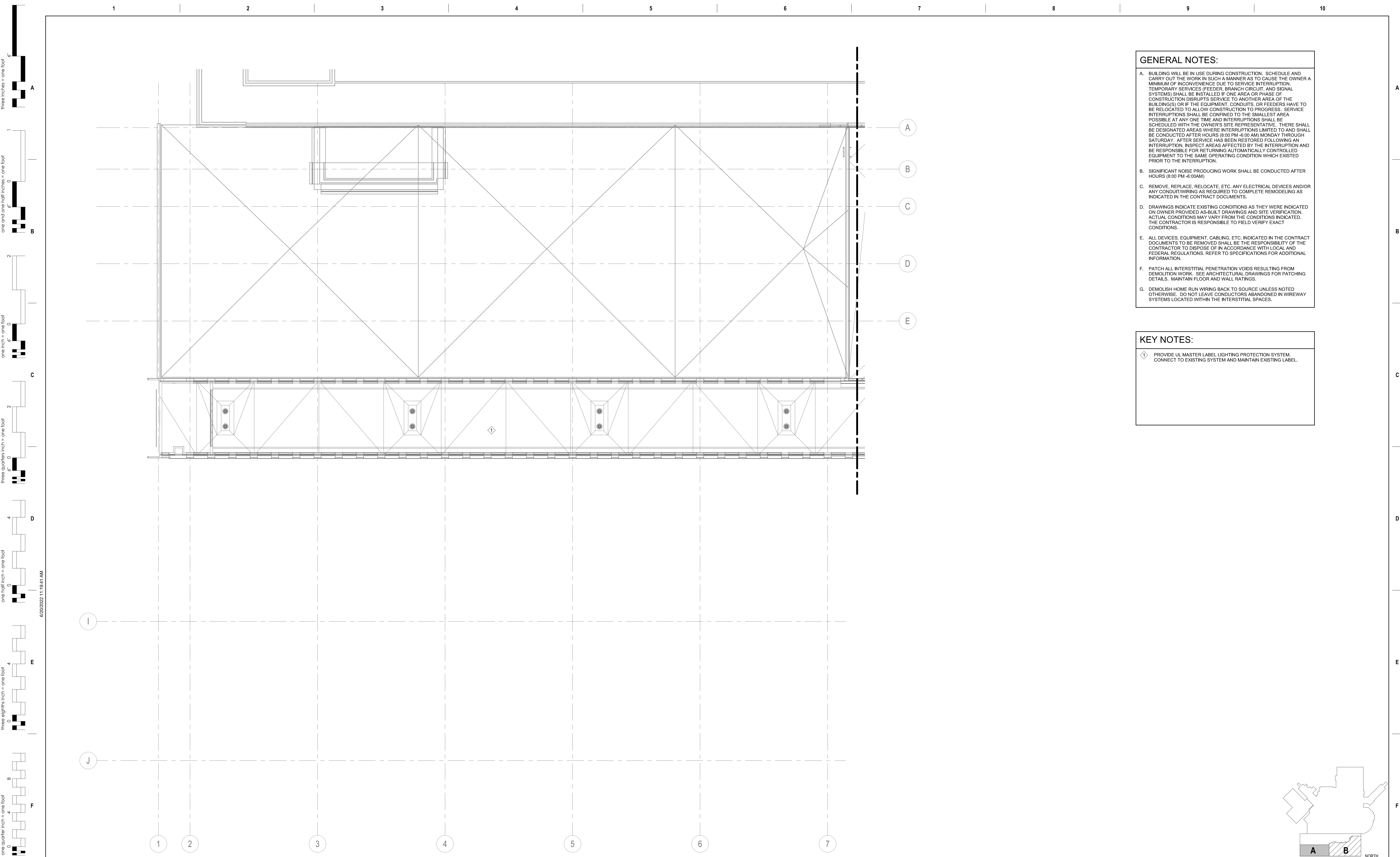
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**GENERAL NOTES:**

- A. BUILDING WILL BE IN USE DURING CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTION. TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND SIGNAL SYSTEMS) SHALL BE INSTALLED IF ONE AREA OR PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING(S) OR IF THE EQUIPMENT, CONDUITS, OR FEEDERS HAVE TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. THERE SHALL BE DESIGNATED AREAS WHERE INTERRUPTIONS LIMITED TO AND SHALL BE CONDUCTED AFTER HOURS (8:00 PM - 8:00 AM) MONDAY THROUGH SATURDAY. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION WHICH EXISTED PRIOR TO THE INTERRUPTION.
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- C. REMOVE, REPLACE, RELOCATE, ETC. ANY ELECTRICAL DEVICES AND/OR ANY CONDUITWIRING AS REQUIRED TO COMPLETE REMODELING AS INDICATED IN THE CONTRACT DOCUMENTS.
- D. DRAWINGS INDICATE EXISTING CONDITIONS AS THEY WERE INDICATED ON OWNER PROVIDED AS-BUILT DRAWINGS AND SITE VERIFICATION. ACTUAL CONDITIONS MAY VARY FROM THE CONDITIONS INDICATED. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXACT CONDITIONS.
- E. ALL DEVICES, EQUIPMENT, CABLING, ETC. INDICATED IN THE CONTRACT DOCUMENTS TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN ACCORDANCE WITH LOCAL AND FEDERAL REGULATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- F. PATCH ALL INTERSTITIAL PENETRATION VOIDS RESULTING FROM DEMOLITION WORK. SEE ARCHITECTURAL DRAWINGS FOR PATCHING DETAILS. MAINTAIN FLOOR AND WALL RATINGS.
- G. DEMOLISH HOME RUN WIRING BACK TO SOURCE UNLESS NOTED OTHERWISE. DO NOT LEAVE CONDUCTORS ABANDONED IN WIREWAY SYSTEMS LOCATED WITHIN THE INTERSTITIAL SPACES.

**KEY NOTES:**

- ① PROVIDE UL MASTER LABEL LIGHTING PROTECTION SYSTEM. CONNECT TO EXISTING SYSTEM AND MAINTAIN EXISTING LABEL.



① ELECTRICAL ROOF PLAN - ZONE A  
1/8" = 1'-0"

**CONSULTANTS**

<b>ARCHITECTURAL:</b> BWB 380 St. Peter St Suite 600 St. Paul, MN 55102 Phone: 651-223-3761	<b>STRUCTURAL:</b> ERA 2250 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-1770	<b>MEP:</b> DUNHAM 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-685-7590 0421950-002-00	<b>CIVIL:</b> EVS 10025 Valley View Rd Suite 140 Eden Prairie, MN 55344 Phone: 952-646-0269	<b>LANDSCAPE:</b> CONFLUENCE 224 N Main Ave Suite 201 Sioux Falls, SD 57104 Phone: 605-339-1205
--	--	--	--	--

**ARCHITECT OF RECORD**

A/E:  
Stone Group Architects  
600 E 7th Street  
Sioux Falls, SD 57103  
605-271-1144

**STAMP**

Office of  
Construction  
and Facilities  
Management

VA U.S. Department  
of Veterans Affairs

Drawing Title  
**ELECTRICAL ROOF PLAN - AREA A**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**NEW FRONT LOBBY AND PRIMARY CARE ADDITION**

Location  
**SIoux FALLS, SOUTH DAKOTA**

Issue Date  
06/22/2022

Checked  
CB

Drawn  
BZ

Project Number  
VA #438-480  
SGA #201909

Building Number  
5

Drawing Number  
EE121

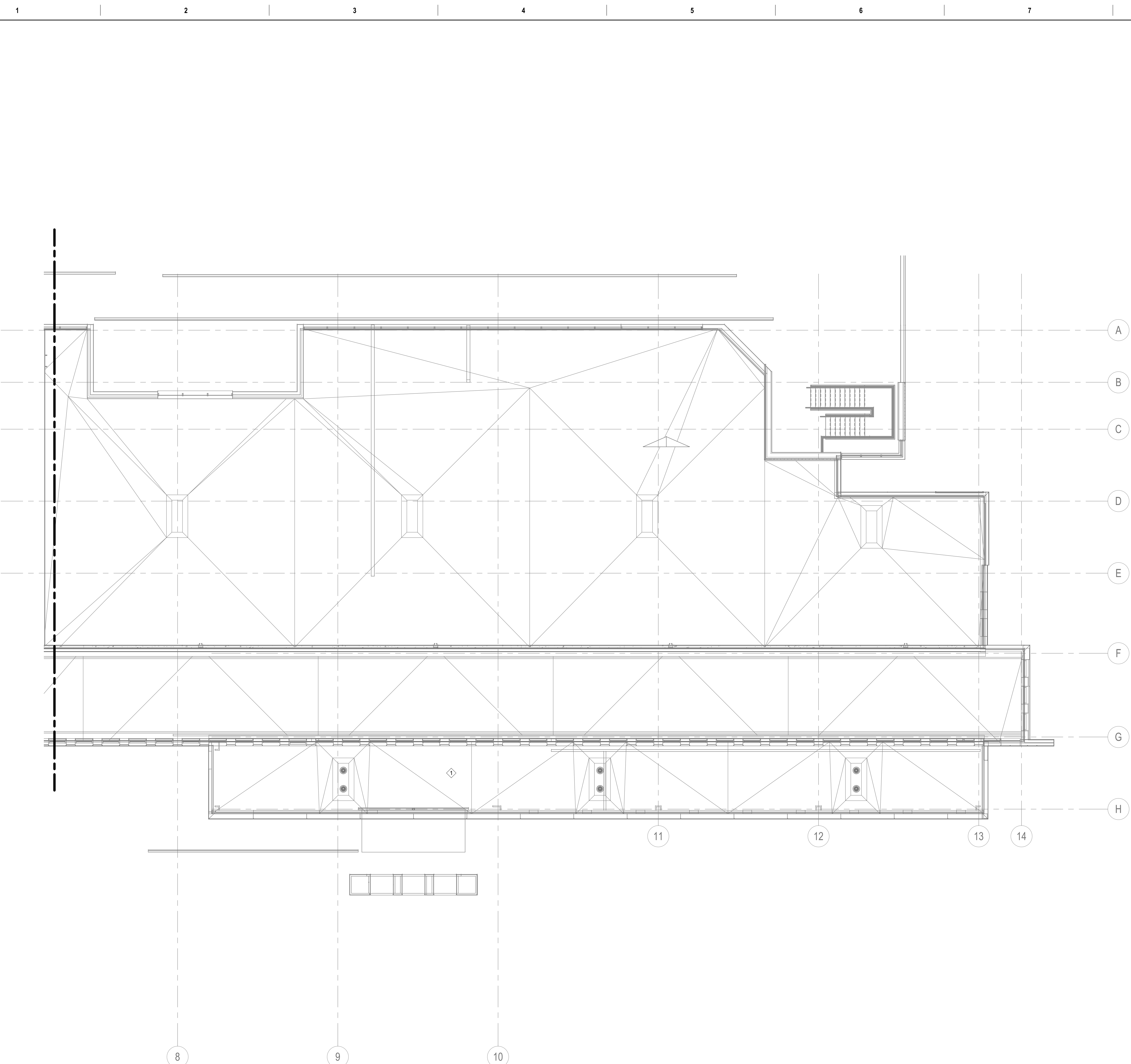
Revision#	Description	Date:

**GENERAL NOTES:**

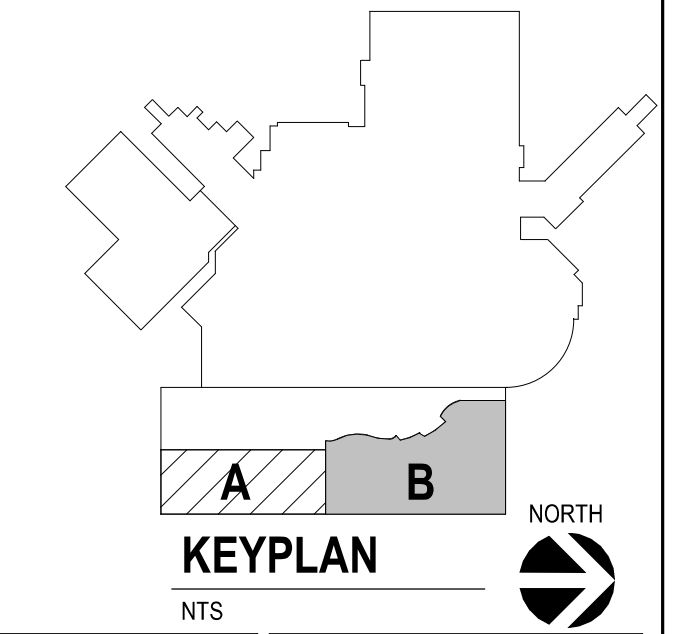
- A. BUILDING WILL BE IN USE DURING CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTION. TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND SIGNAL SYSTEMS) SHALL BE INSTALLED IN ONE AREA OR PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING(S) OR IF THE EQUIPMENT, CONDUITS, OR FEEDERS HAVE TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. THERE SHALL BE DESIGNATED AREAS WHERE INTERRUPTIONS LIMITED TO AND SHALL BE CONDUCTED AFTER HOURS (8:00 PM -8:00 AM) MONDAY THROUGH SATURDAY. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION WHICH EXISTED PRIOR TO THE INTERRUPTION.
- B. SIGNIFICANT NOISE PRODUCING WORK SHALL BE CONDUCTED AFTER HOURS (8:00 PM -6:00AM)
- C. REMOVE, REPLACE, RELOCATE, ETC. ANY ELECTRICAL DEVICES AND/OR ANY CONDUIT/WIRING AS REQUIRED TO COMPLETE REMODELING AS INDICATED IN THE CONTRACT DOCUMENTS.
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- E. ALL DEVICES, EQUIPMENT, CABLING, ETC. INDICATED IN THE CONTRACT DOCUMENTS TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF IN ACCORDANCE WITH LOCAL AND FEDERAL REGULATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- F. PATCH ALL INTERSTITIAL PENETRATION VOIDS RESULTING FROM DEMOLITION WORK. SEE ARCHITECTURAL DRAWINGS FOR PATCHING DETAILS. MAINTAIN FLOOR AND WALL RATINGS.
- G. DEMOLISH HOME RUN WIRING BACK TO SOURCE UNLESS NOTED OTHERWISE. DO NOT LEAVE CONDUCTORS ABANDONED IN WIREWAY SYSTEMS LOCATED WITHIN THE INTERSTITIAL SPACES.

**KEY NOTES:**

- ① PROVIDE UL MASTER LABEL LIGHTING PROTECTION SYSTEM. CONNECT TO EXISTING SYSTEM AND MAINTAIN EXISTING LABEL.



1 ELECTRICAL ROOF PLAN - ZONE B  
1/8" = 1'-0"



Revision#	Description	Date:

**CONSULTANTS**

<b>ARCHITECTURAL:</b> BWB 380 St. Peter St Suite 600 St. Paul, MN 55102 Phone: 651-223-3761	<b>STRUCTURAL:</b> ERA 2250 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-1770	<b>MEP:</b> DUNHAM 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-685-7590 0421950-002-00	<b>CIVIL:</b> EVS 10025 Valley View Rd Suite 140 Eden Prairie, MN 55344 Phone: 952-646-0239	<b>LANDSCAPE:</b> CONFLUENCE 524 N Main Ave Suite 201 Sioux Falls, SD 57104 Phone: 605-339-1205
--	--	--	--	--

**ARCHITECT OF RECORD**

A/E:  
Stone Group Architects  
600 E 7th Street  
Sioux Falls, SD 57103  
605-271-1144

**STAMP**

Office of  
Construction  
and Facilities  
Management

Drawing Title  
**ELECTRICAL ROOF PLAN - AREA B**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**NEW FRONT LOBBY AND PRIMARY CARE ADDITION**

Location  
**SIoux FALLS, SOUTH DAKOTA**

Issue Date  
06/22/2022

Checked  
CB

Drawn  
BZ

Project Number  
VA #438-480  
SGA #201909

Building Number  
5

Drawing Number  
EE122

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

FEEDER SCHEDULE	
FEEDER	FEEDER DESCRIPTION
225-3S	2-1/2" C, 4#410 + #2 G
1000-3T	(3) 3" C, 3#400KCML + #2/0 G

-2	SINGLE PHASE
-3	THREE PHASE

S	SERVICE SECONDARY
D	SIZED FOR VOLTAGE DROP
P	PVC
U	UNDERGROUND
N	ADDED NEUTRAL
T	THREE WIRE ONLY, NO NEUTRAL

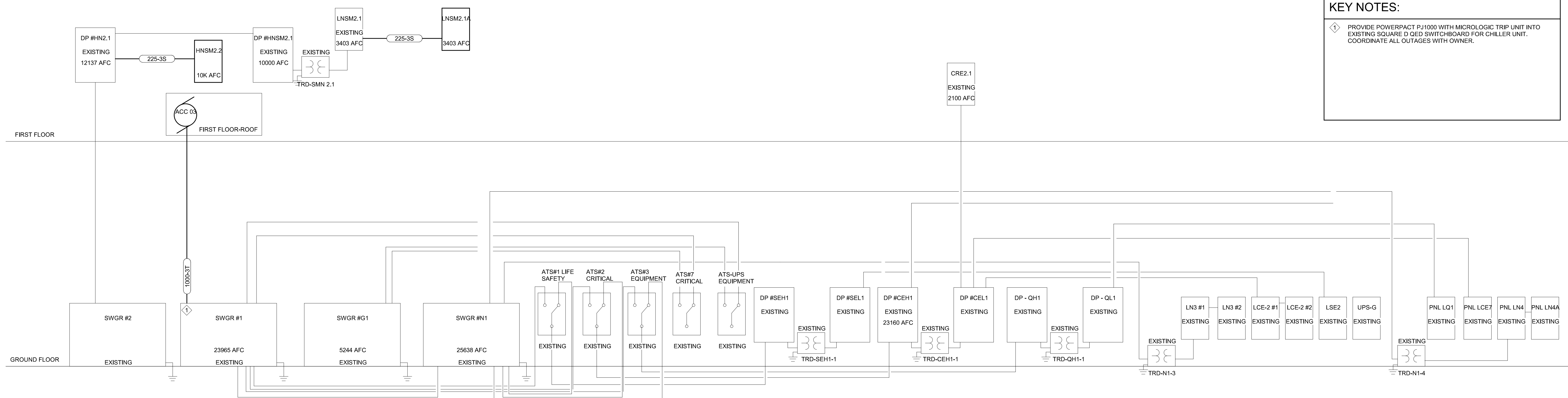
  

GENERAL NOTES:  
 A. NOMENCLATURE DEFAULTS WITH A SINGLE NEUTRAL AND A GROUND.

NOTES:

**KEY NOTES:**

◇ PROVIDE POWERPACT PJ1000 WITH MICROLOGIC TRIP UNIT INTO EXISTING SQUARE D QED SWITCHBOARD FOR CHILLER UNIT. COORDINATE ALL OUTAGES WITH OWNER.



1 PARTIAL ELECTRICAL RISER  
 NO SCALE

Revision#	Description	Date:

**CONSULTANTS**

<b>ARCHITECTURAL:</b> BWB 385 St. Peter St Suite 600 St. Paul, MN 55102 Phone: 651-223-3761	<b>STRUCTURAL:</b> ERA 2250 University Ave W Suite 423-S St. Paul, MN 55402 Phone: 651-251-1770	<b>MEP:</b> DUNHAM 50 South Sixth St Suite 1100 Minneapolis, MN 55402 Phone: 612-465-7550 0421950-002-00	<b>CIVIL:</b> EVS 10025 Valley View Rd Suite 140 Eden Prairie, MN 55344 Phone: 952-646-0239	<b>LANDSCAPE:</b> CONFLUENCE 224 N Main Ave Suite 201 Sioux Falls, SD 57104 Phone: 605-339-1205
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**ARCHITECT OF RECORD**

A/E  
 Stone Group Architects  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144

**STAMP**

REGISTERED PROFESSIONAL ELECTRICAL ENGINEER  
 CURTIS D. BARLAGE  
 4838  
 SOUTH DAKOTA

Office of Construction and Facilities Management  
 VA U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL RISERS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**NEW FRONT LOBBY AND PRIMARY CARE ADDITION**

Location  
**SIoux FALLS, SOUTH DAKOTA**

Issue Date  
 06/22/2022

Checked  
 CB

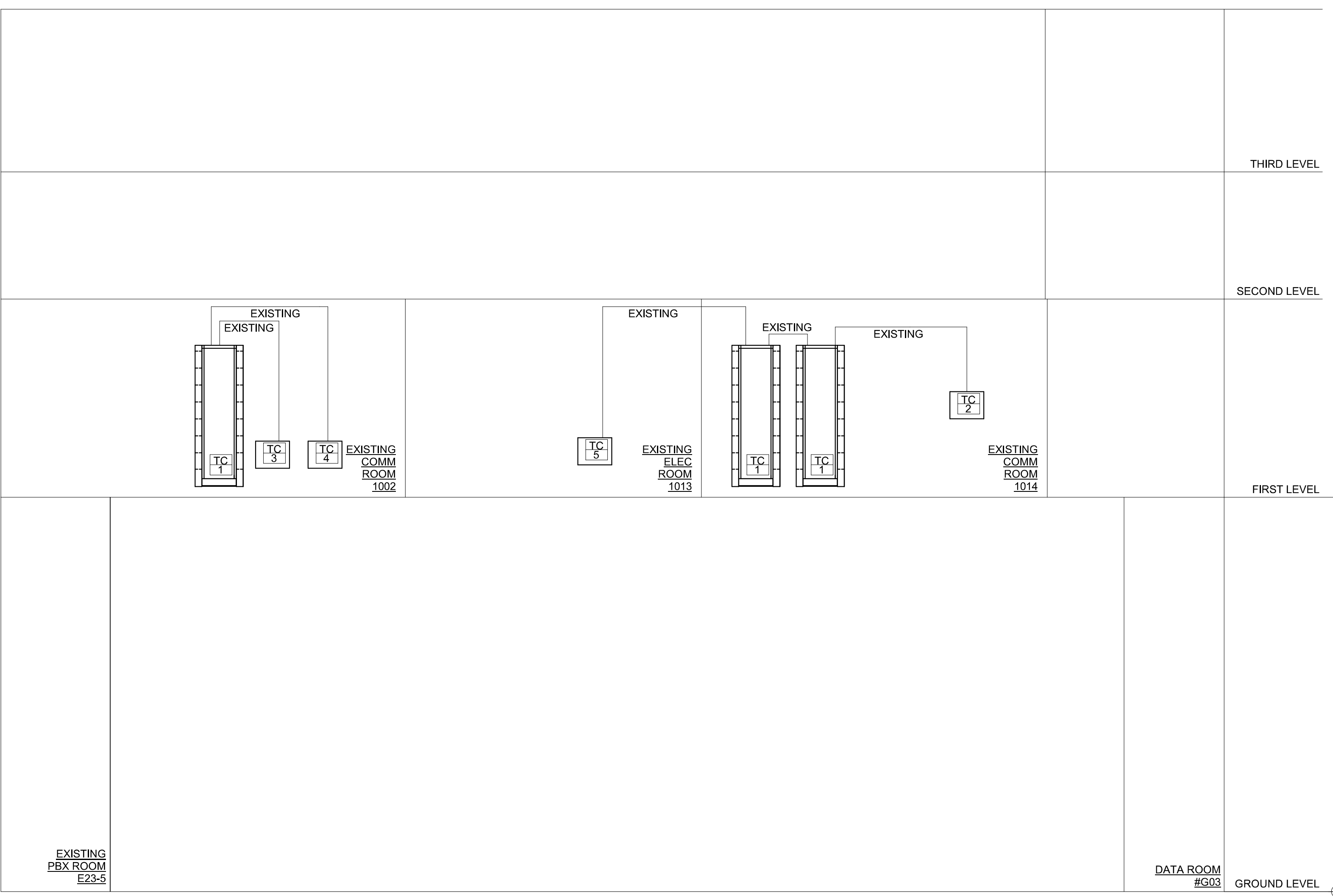
Drawn  
 BZ

Project Number  
 VA #438-480  
 SGA #201909

Building Number  
 5

Drawing Number  
**EE300**





② TELECOMMUNICATIONS CABLING RISER DIAGRAM  
NO SCALE

**GENERAL SHEET NOTES**

- ALL CABLING SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE.
- DIVISION 26 TO PROVIDE PULL STRING IN ALL CONDUIT RUNS.
- REFER TO PLANS FOR CAMERA LOCATIONS REQUIRING CABLING PROVIDED BY DIVISION 27.
- REFER TO DIVISION 08 SPECIFICATIONS FOR DOOR SECURITY/HARDWARE PREPARATION REQUIREMENTS.
- FINAL QUANTITIES OF ALL PROVIDED DEVICES, SUPPORTS, HARDWARE, CABLING, ETC. TO BE VERIFIED AND PROVIDED BY THE DIVISION 27 CONTRACTOR.
- SEE ENLARGED TELECOMMUNICATIONS ROOM LAYOUT PLANS FOR EXACT LOCATIONS OF EQUIPMENT.
- TELECOMMUNICATION COMMON BONDING NETWORK SHALL COMPLY WITH J-STD-607A, TIA 942, IEEE STD 1100, AND NATIONAL ELECTRIC CODE.
- ACTIVE EQUIPMENT (ROUTERS, SWITCHES, HUBS, ETC.) TO BE PROVIDED BY OWNER/OWNER'S REPRESENTATIVE. COORDINATE FINAL EQUIPMENT LOCATION WITH OWNER'S IT STAFF.
- DIVISION 27 TO PROVIDE ALL EQUIPMENT/CABLING INDICATED ON THIS SHEET UNLESS NOTED OTHERWISE.
- ALL TELECOMMUNICATION ROOM EQUIPMENT RACKS PROVIDED AND INSTALLED BY DIVISION 27.

**EQUIPMENT**

TTC → DEVICE TYPE CALLOUT  
TTC → INDIVIDUAL DEVICE CALLOUT

TTC 1 → EXISTING TELECOMM EQUIPMENT RACK (2-POST).  
TTC 2 → EXISTING NURSE CALL SYSTEM (WALL MOUNTED CABINET).  
TTC 3 → EXISTING BUILDING AUTOMATION SYSTEM (BAS) (WALL MOUNTED CABINET).  
TTC 4 → EXISTING SURVEILLANCE CAMERA SYSTEM (WALL MOUNTED CABINET).  
TTC 5 → EXISTING FIRE DETECTION/ALARM SYSTEM (WALL MOUNTED CABINET).

**CABLE TYPE**

→ QTY OF CABLE TYPE  
→ QTY OF CABLE PAIRS  
→ CABLE TYPE CALLOUT  
(C = COPPER)  
(F = FIBER)

(E11/57/F) 6 PAIR REDUNDANT 50/125 MICRON OM3 MULTIMODE FIBER OPTIC CABLE(S) ROUTED TO FIBER LIU(S). (LAN/WAN BACKBONE).  
(C125/F) 25PR CATEGORY 6A PLENUM CABLE(S) ROUTED TO PATCH PANEL(S). (VOICE BACKBONE).  
(C225/F) RG-11 COAXIAL CABLE ROUTED TO RACK MOUNTED UTP VIDEO DISTRIBUTION PANEL.

**SYSTEMS - VIDEO SURVEILLANCE SCHEDULE**

CAMERA	CAMERA TYPE (ROOM#)	HOUSING TYPE	MOUNTING	NOTES
<b>GROUND LEVEL</b>				
C 1	LICENSE PLATE / EXTERIOR	DOME	POLE	
C 2	EXTERIOR	MULTI VIEW	POLE	
C 3	EXTERIOR	MULTI VIEW	POLE	
C 4	EXTERIOR	MULTI VIEW	POLE	
C 5	EXTERIOR	MULTI VIEW	POLE	
C 6	EXTERIOR	MULTI VIEW	POLE	
C 7	EXTERIOR	MULTI VIEW	POLE	
C 8	EXTERIOR	MULTI VIEW	POLE	
C 9	EXTERIOR	MULTI VIEW	POLE	
C 10	EXTERIOR	MULTI VIEW	POLE	
C 11	EXTERIOR	MULTI VIEW	POLE	
C 12	EXTERIOR	MULTI VIEW	POLE	
C 13	INTERIOR (C55)	DOME	WALL	
C 14	INTERIOR (C55A)	DOME	WALL	
C 15	INTERIOR (C55A)	DOME	WALL	
C 16	INTERIOR (C55A)	DOME	WALL	
C 17	INTERIOR (FD4)	DOME	CEILING	
C 18	INTERIOR (FD4)	DOME	CEILING	
C 19	INTERIOR (J01)	DOME	CEILING	
C 20	INTERIOR (FD3)	DOME	WALL	
C 21	INTERIOR (FD3)	DOME	WALL	

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

<p><b>CONSULTANTS</b></p> <p>ARCHITECTURAL: B W B R STRUCTURAL: ERA MEP: DUNHAM CIVIL: EVS LANDSCAPE: CONFLUENCE</p>		<p><b>ARCHITECT OF RECORD</b></p> <p>A/E: Stone Group Architects 600 E 7th Street Sioux Falls, SD 57103 605-271-1144</p>		<p><b>STAMP</b></p> <p>Curtis D. Barlage 43-05'00"</p>		<p><b>Office of Construction and Facilities Management</b></p> <p>VA U.S. Department of Veterans Affairs</p>		<p>Drawing Title: <b>ELECTRICAL RISERS</b></p> <p>Phase: <b>CONSTRUCTION DOCUMENTS</b></p>		<p>Project Title: <b>NEW FRONT LOBBY AND PRIMARY CARE ADDITION</b></p> <p>Location: <b>SIoux FALLS, SOUTH DAKOTA</b></p>		<p>Project Number: <b>VA #438-480 SGA #201909</b></p> <p>Building Number: <b>5</b></p> <p>Drawing Number: <b>EE301</b></p>	
<p>Revision# Description Date:</p>		<p>Approved:</p>		<p>Issue Date: 06/22/2022</p> <p>Checked: CB</p> <p>Drawn: BZ</p>		<p>Issue Date: 06/22/2022</p> <p>Checked: CB</p> <p>Drawn: BZ</p>		<p>Issue Date: 06/22/2022</p> <p>Checked: CB</p> <p>Drawn: BZ</p>		<p>Issue Date: 06/22/2022</p> <p>Checked: CB</p> <p>Drawn: BZ</p>			

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

one eighth inch = one foot

one quarter inch = one foot

one eighth inch = one foot

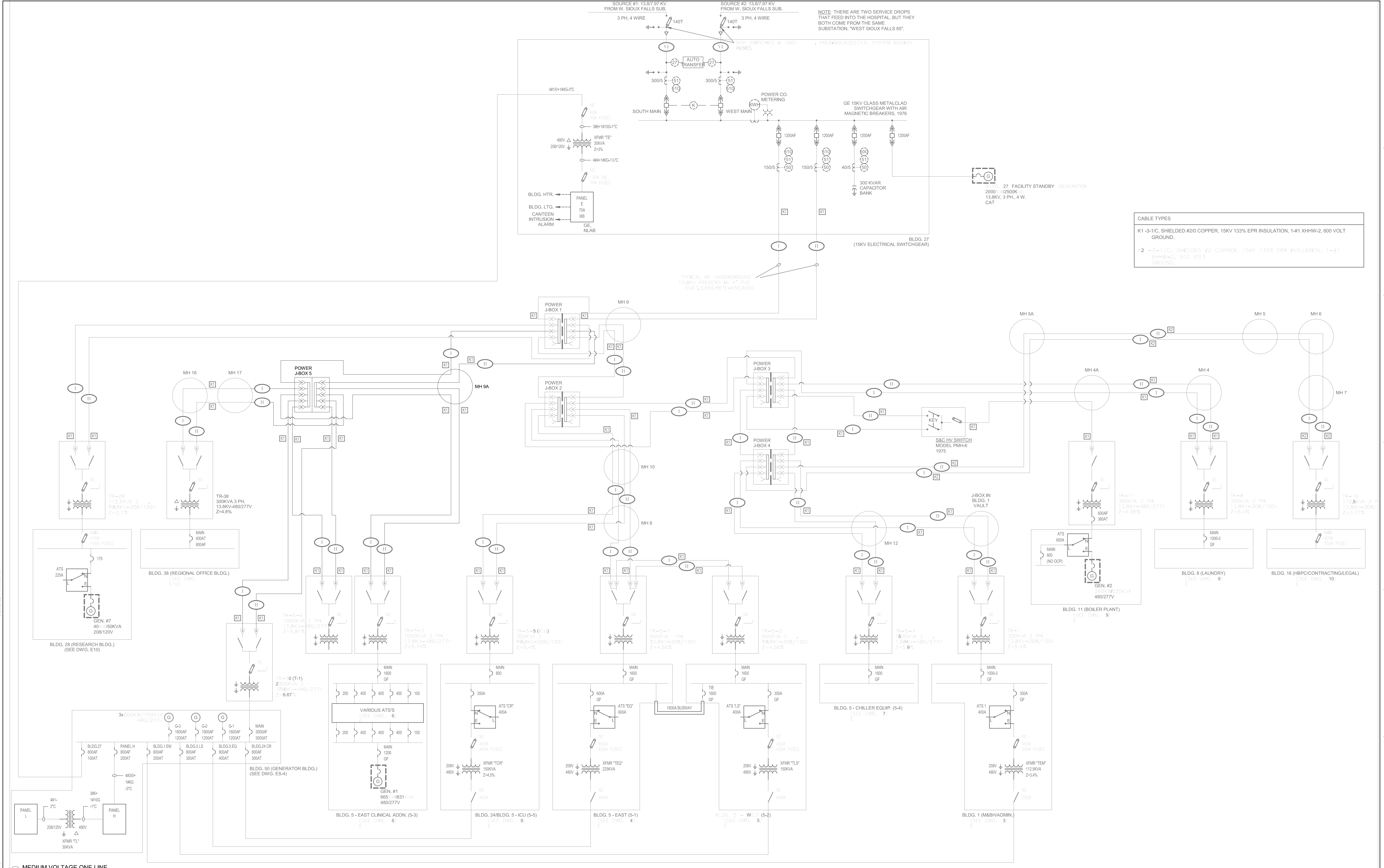
one quarter inch = one foot

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**CABLE TYPES**

K1-3-1/C, SHIELDED #20 COPPER, 15KV 133% EPR INSULATION, 1-#1 XHHW-2, 600 VOLT GROUND.

#2-3-1/C, SHIELDED #2 COPPER, 15KV 133% EPR INSULATION, 1-#1 XHHW-2, 600 VOLT GROUND.

6/20/2025 11:19:50 AM

1 MEDIUM VOLTAGE ONE LINE NO SCALE

Revision#	Description	Date:

**CONSULTANTS**

**ARCHITECTURAL:** B|W|B|R  
380 St. Peter St  
Suite 600  
St. Paul, MN 55102  
Phone: 651-223-3761

**STRUCTURAL:** ERA  
Erickson Road Associates  
2250 University Ave W  
Suite 423-S  
St. Paul, MN 55402  
Phone: 651-251-1770

**MEP:** DUNHAM  
Dunham Associates, Inc.  
50 South Sixth St  
Suite 1100  
Minneapolis, MN 55402  
Phone: 612-465-7550  
612-950-002-00

**CIVIL:** EVS  
10025 Valley View Rd  
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Eden Prairie, MN 55344  
Phone: 952-946-0239

**LANDSCAPE:** CONFLUENCE  
524 N Main Ave  
Suite 201  
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Phone: 605-339-1205

**ARCHITECT OF RECORD**

A/E: Stone Group Architects  
600 E 7th Street  
Sioux Falls, SD 57103  
605-271-1144

**STAMP**

REGISTRATION NO. 4838  
CURTIS D. BARLAGE  
SOUTH DAKOTA

**STONE GROUP ARCHITECTS**

**Office of Construction and Facilities Management**

VA U.S. Department of Veterans Affairs

**Drawing Title**

ELECTRICAL RISERS

**Approved:**

**Phase**

CONSTRUCTION DOCUMENTS

**Project Title**

NEW FRONT LOBBY AND PRIMARY CARE ADDITION

**Location**

SIOUX FALLS, SOUTH DAKOTA

**Issue Date**

06/22/2022

**Checked**

CB

**Drawn**

BZ

**Project Number**

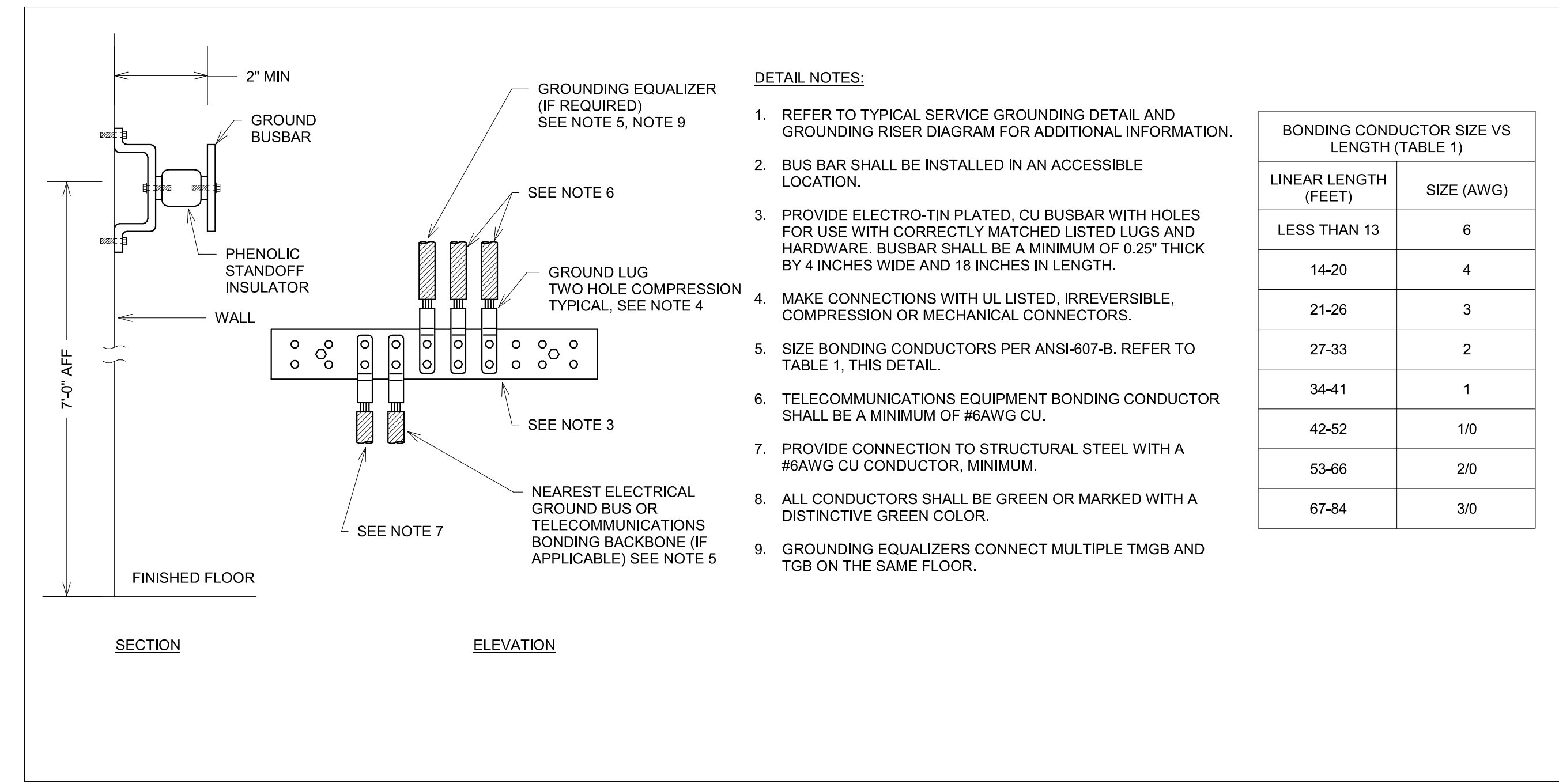
VA #438-480  
SGA #201909

**Building Number**

5

**Drawing Number**

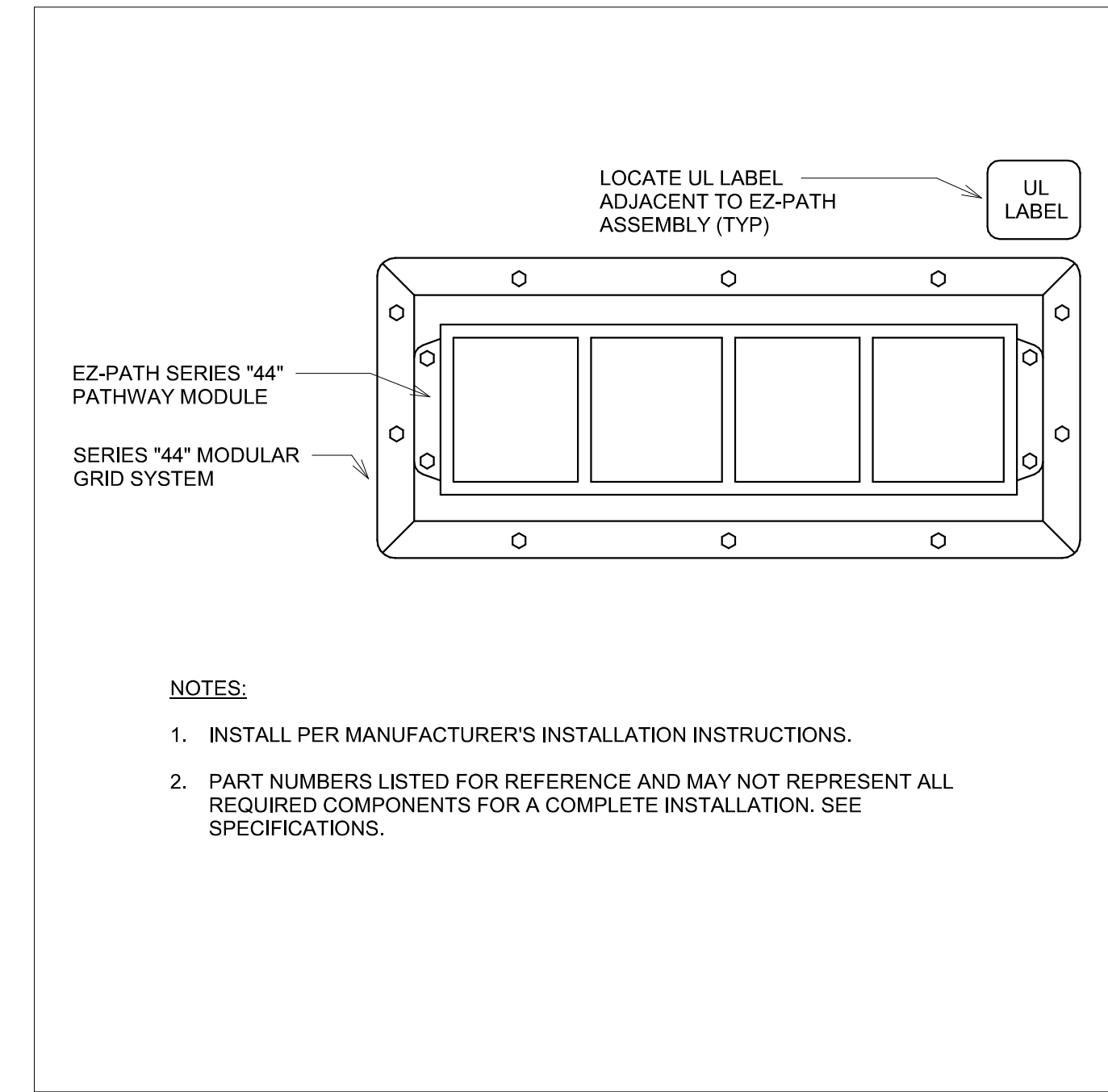
EE302



1 TELECOMMUNICATIONS GROUND BAR DETAIL (TGB)  
NO SCALE

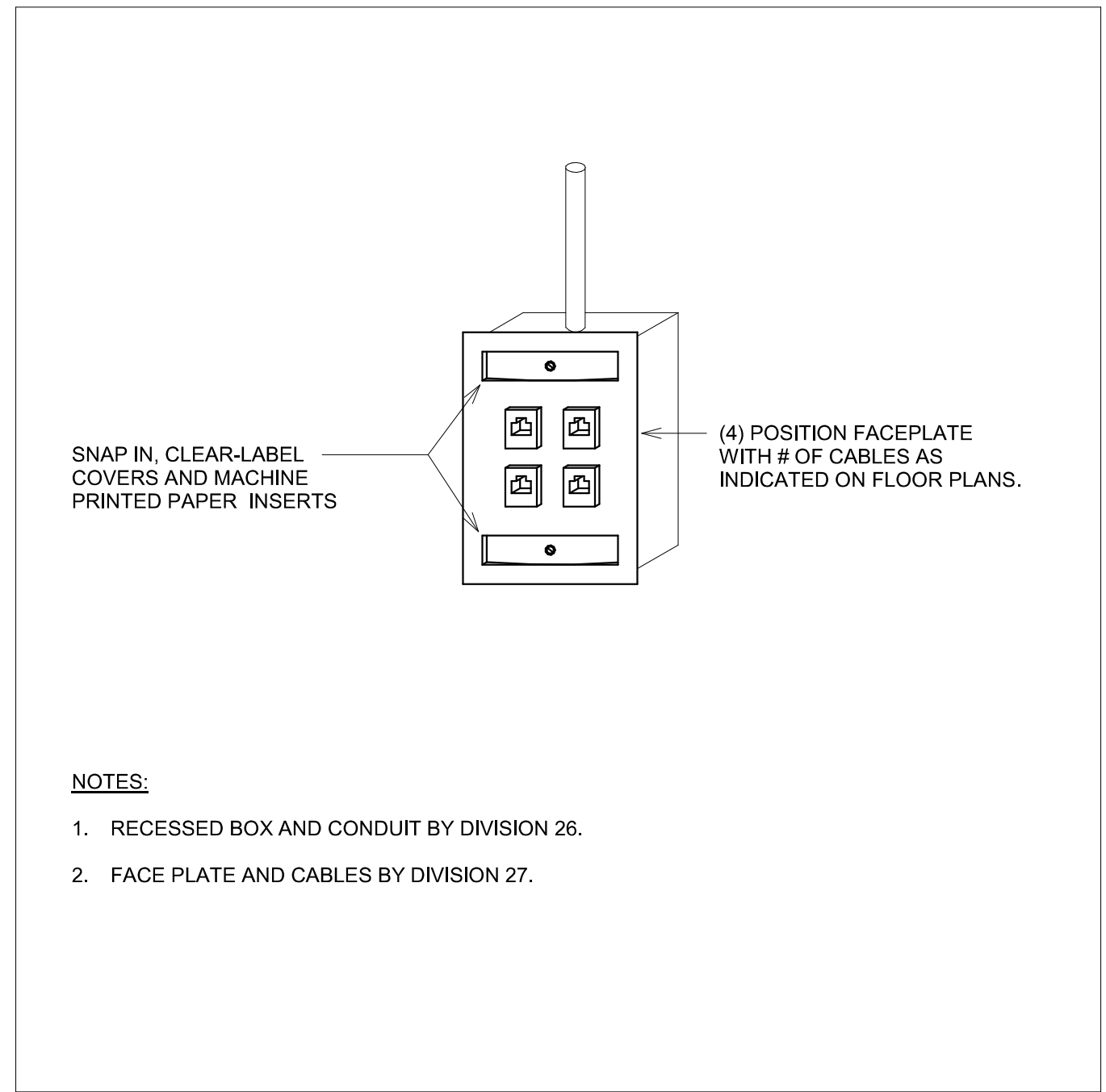
- DETAIL NOTES:**
- REFER TO TYPICAL SERVICE GROUNDING DETAIL AND GROUNDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.
  - BUS BAR SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION.
  - PROVIDE ELECTRO-TIN PLATED, CU BUSBAR WITH HOLES FOR USE WITH CORRECTLY MATCHED LISTED LUGS AND HARDWARE. BUSBAR SHALL BE A MINIMUM OF 0.25" THICK BY 4 INCHES WIDE AND 18 INCHES IN LENGTH.
  - MAKE CONNECTIONS WITH UL LISTED, IRREVERSIBLE, COMPRESSION OR MECHANICAL CONNECTORS.
  - SIZE BONDING CONDUCTORS PER ANSI-607-B. REFER TO TABLE 1, THIS DETAIL.
  - TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR SHALL BE A MINIMUM OF #6AWG CU.
  - PROVIDE CONNECTION TO STRUCTURAL STEEL WITH A #6AWG CU CONDUCTOR, MINIMUM.
  - ALL CONDUCTORS SHALL BE GREEN OR MARKED WITH A DISTINCTIVE GREEN COLOR.
  - GROUNDING EQUALIZERS CONNECT MULTIPLE TMGB AND TGB ON THE SAME FLOOR.

BONDING CONDUCTOR SIZE VS LENGTH (TABLE 1)	
LINEAR LENGTH (FEET)	SIZE (AWG)
LESS THAN 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0



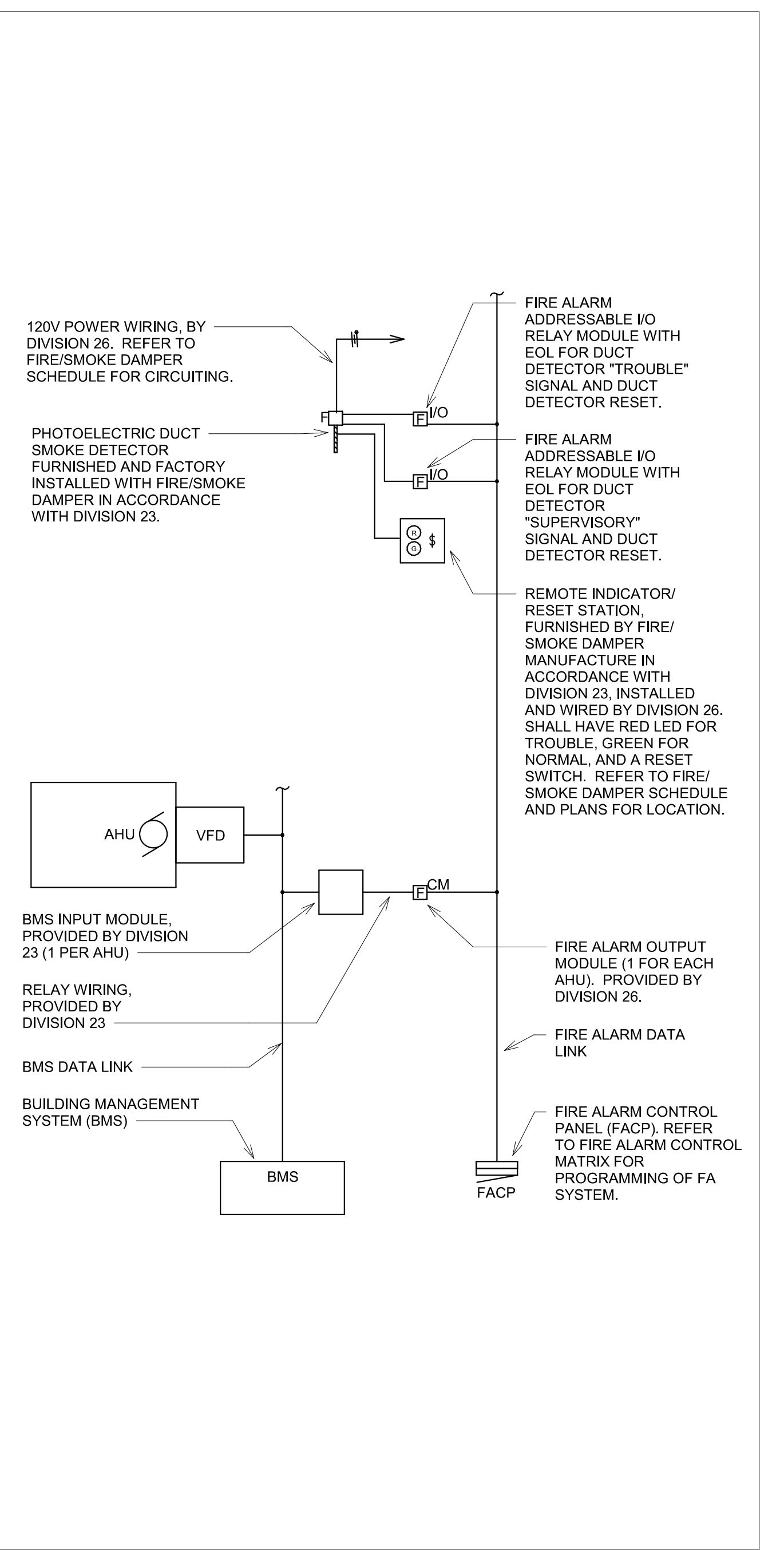
5 FIRE STOP DETAIL - CORRIDOR PENETRATION  
NO SCALE

- NOTES:**
- INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - PART NUMBERS LISTED FOR REFERENCE AND MAY NOT REPRESENT ALL REQUIRED COMPONENTS FOR A COMPLETE INSTALLATION. SEE SPECIFICATIONS.

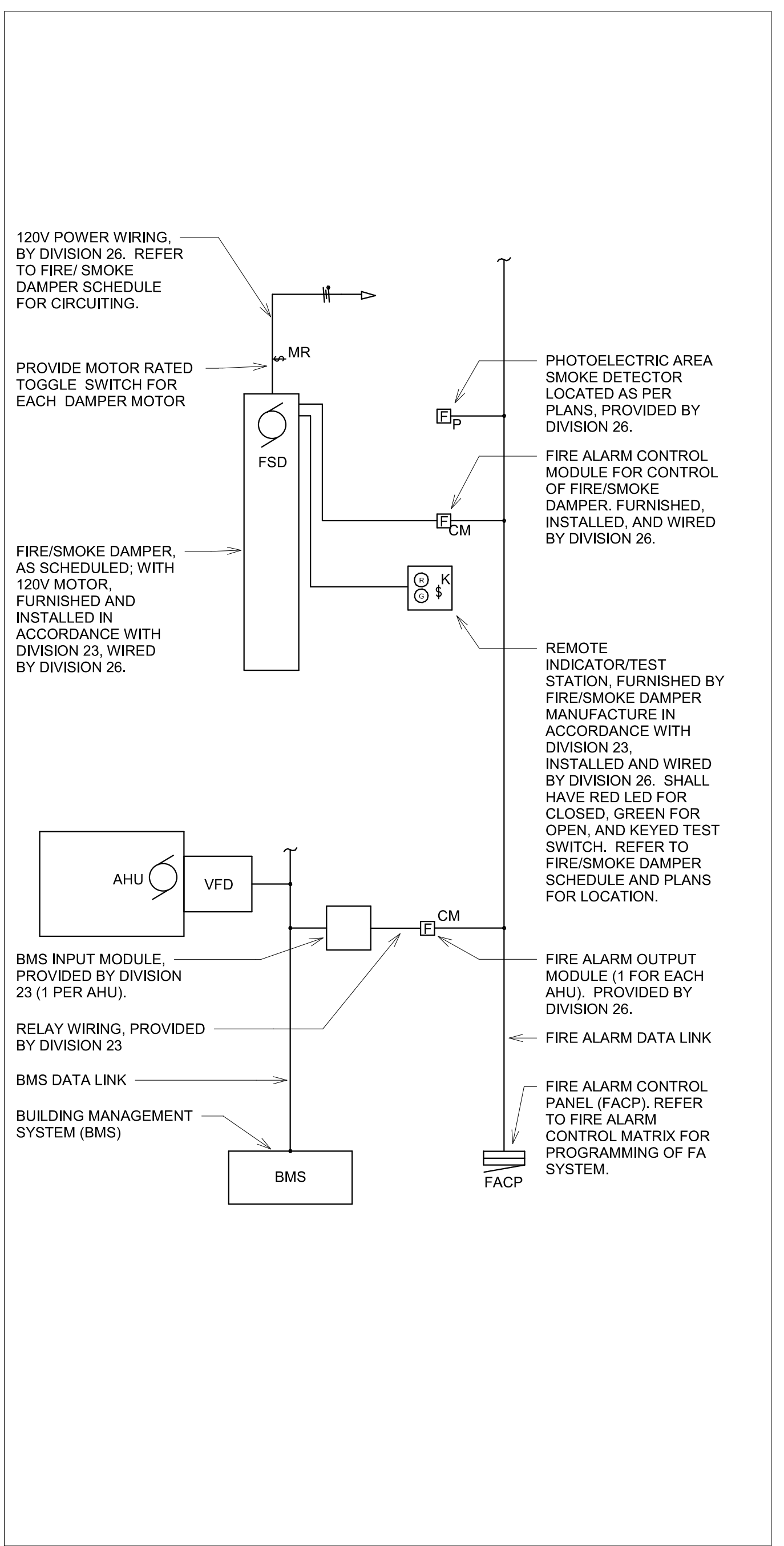


6 VOICE/DATA OUTLET LOCATION DETAIL  
NO SCALE

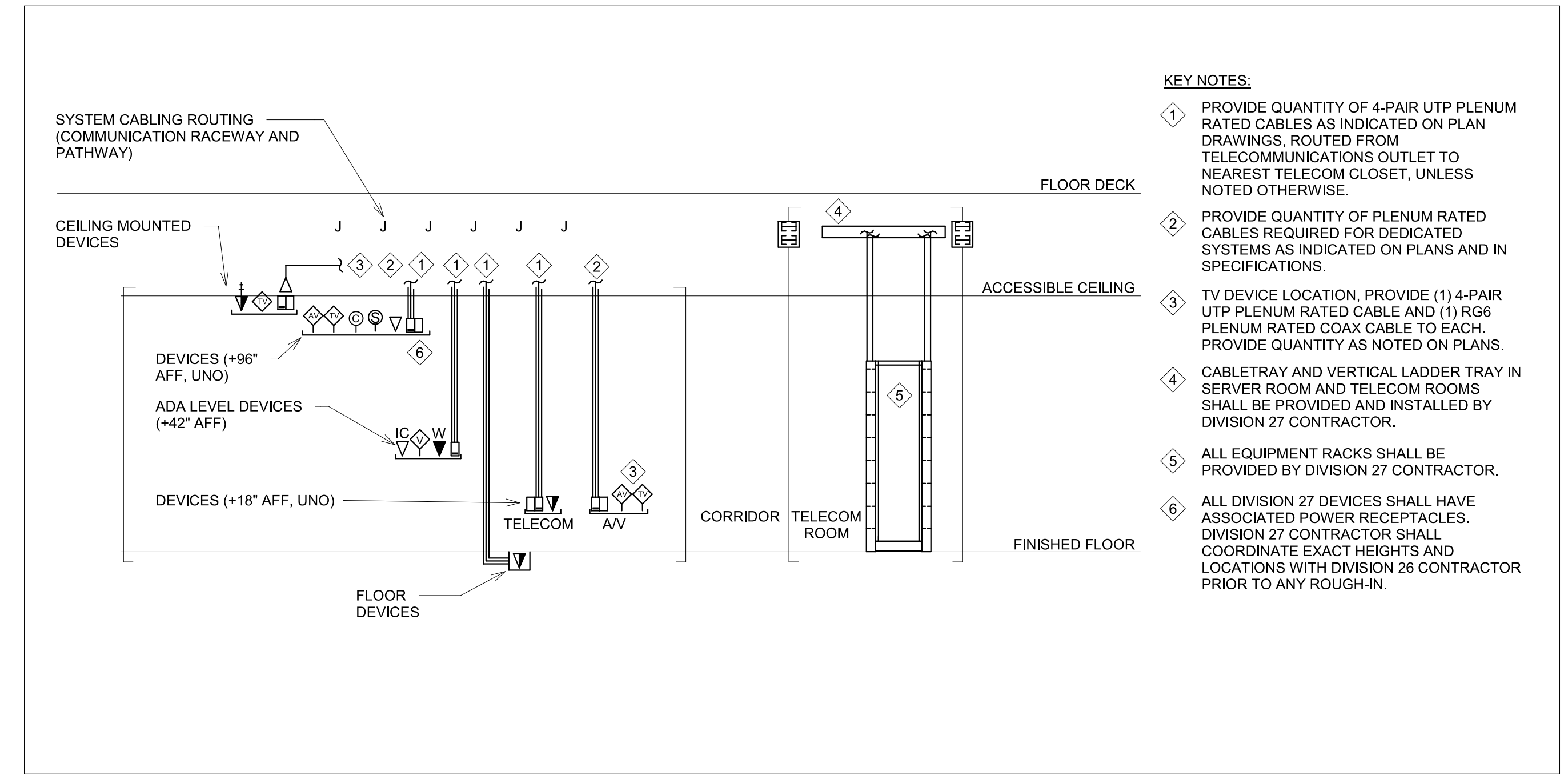
- NOTES:**
- RECESSED BOX AND CONDUIT BY DIVISION 26.
  - FACE PLATE AND CABLES BY DIVISION 27.



2 DUCT DETECTOR DETAIL  
NO SCALE

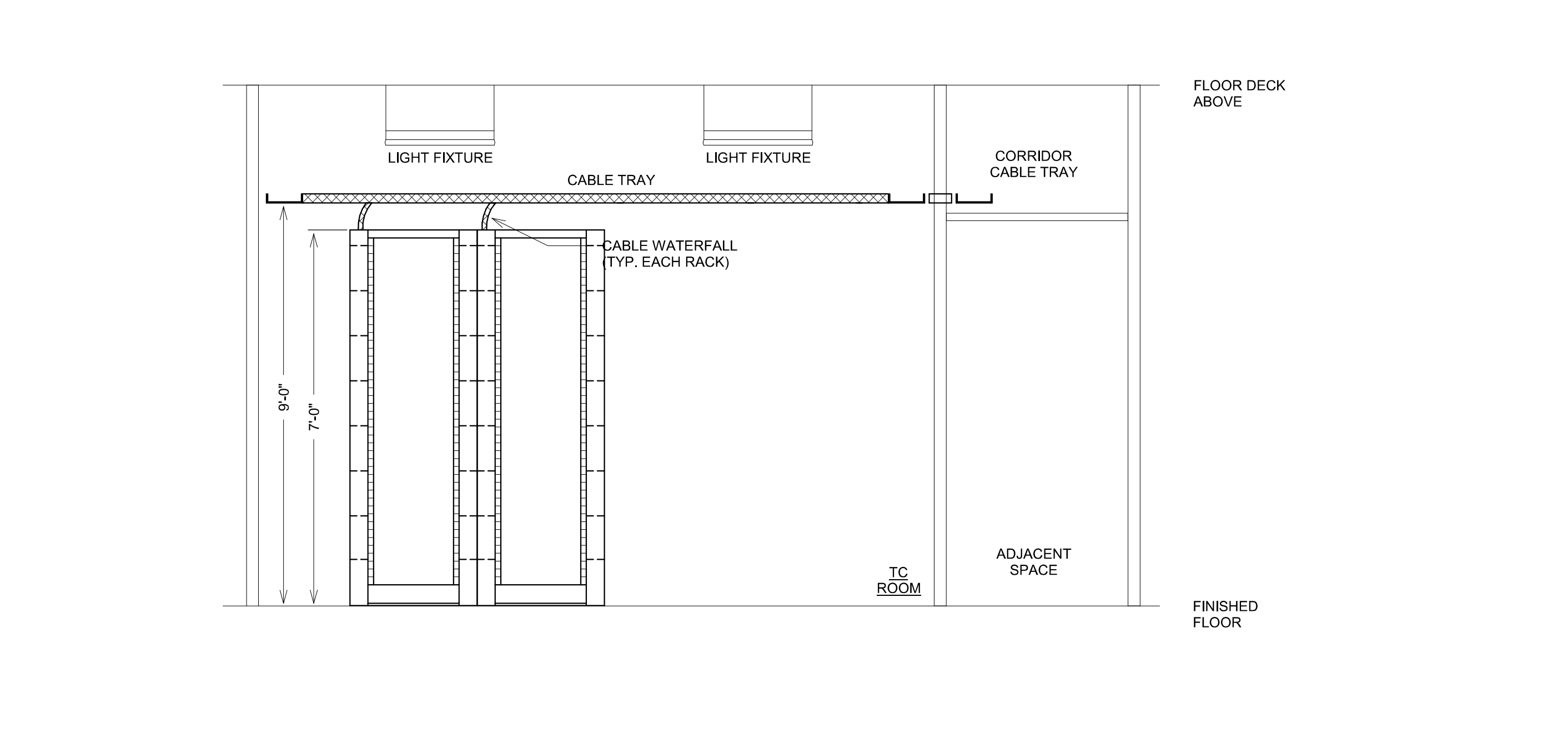


3 FIRE/SMOKE DAMPER - AREA DETECTOR DIAGRAM  
NO SCALE

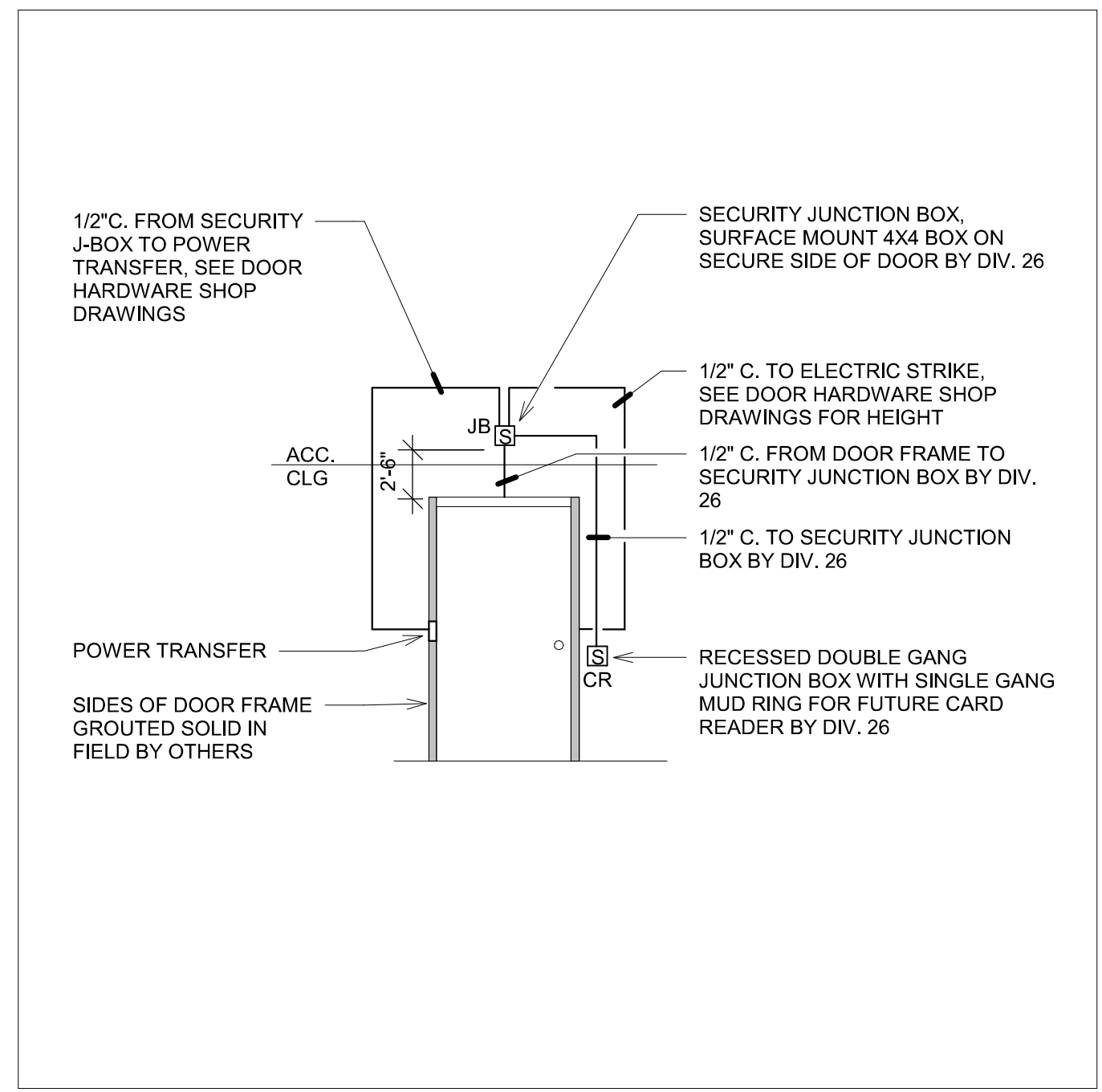


7 HORIZONTAL CABLING DETAIL  
NO SCALE

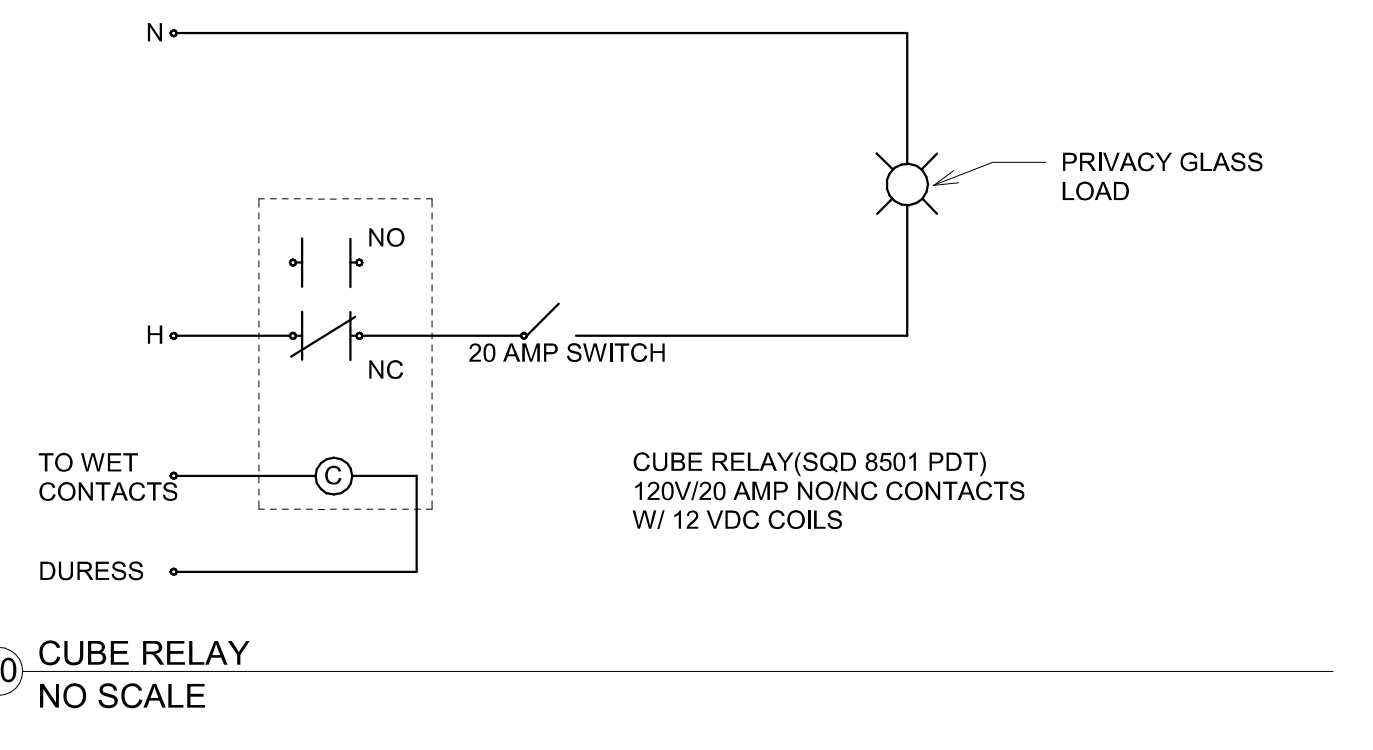
- KEY NOTES:**
- PROVIDE QUANTITY OF 4-PAIR UTP PLENUM RATED CABLES AS INDICATED ON PLAN DRAWINGS. ROUTED FROM TELECOMMUNICATIONS OUTLET TO NEAREST TELECOM CLOSET, UNLESS NOTED OTHERWISE.
  - PROVIDE QUANTITY OF PLENUM RATED CABLES REQUIRED FOR DEDICATED SYSTEMS AS INDICATED ON PLANS AND IN SPECIFICATIONS.
  - TV DEVICE LOCATION: PROVIDE (1) 4-PAIR UTP PLENUM RATED CABLE AND (1) RG6 PLENUM RATED COAX CABLE TO EACH. PROVIDE QUANTITY AS NOTED ON PLANS.
  - CABLETRAY AND VERTICAL LADDER TRAY IN SERVER ROOM AND TELECOM ROOMS SHALL BE PROVIDED AND INSTALLED BY DIVISION 27 CONTRACTOR.
  - ALL EQUIPMENT RACKS SHALL BE PROVIDED BY DIVISION 27 CONTRACTOR.
  - ALL DIVISION 27 DEVICES SHALL HAVE ASSOCIATED POWER RECEPTACLES. DIVISION 27 CONTRACTOR SHALL COORDINATE EXACT HEIGHTS AND LOCATIONS WITH DIVISION 26 CONTRACTOR PRIOR TO ANY ROUGH-IN.



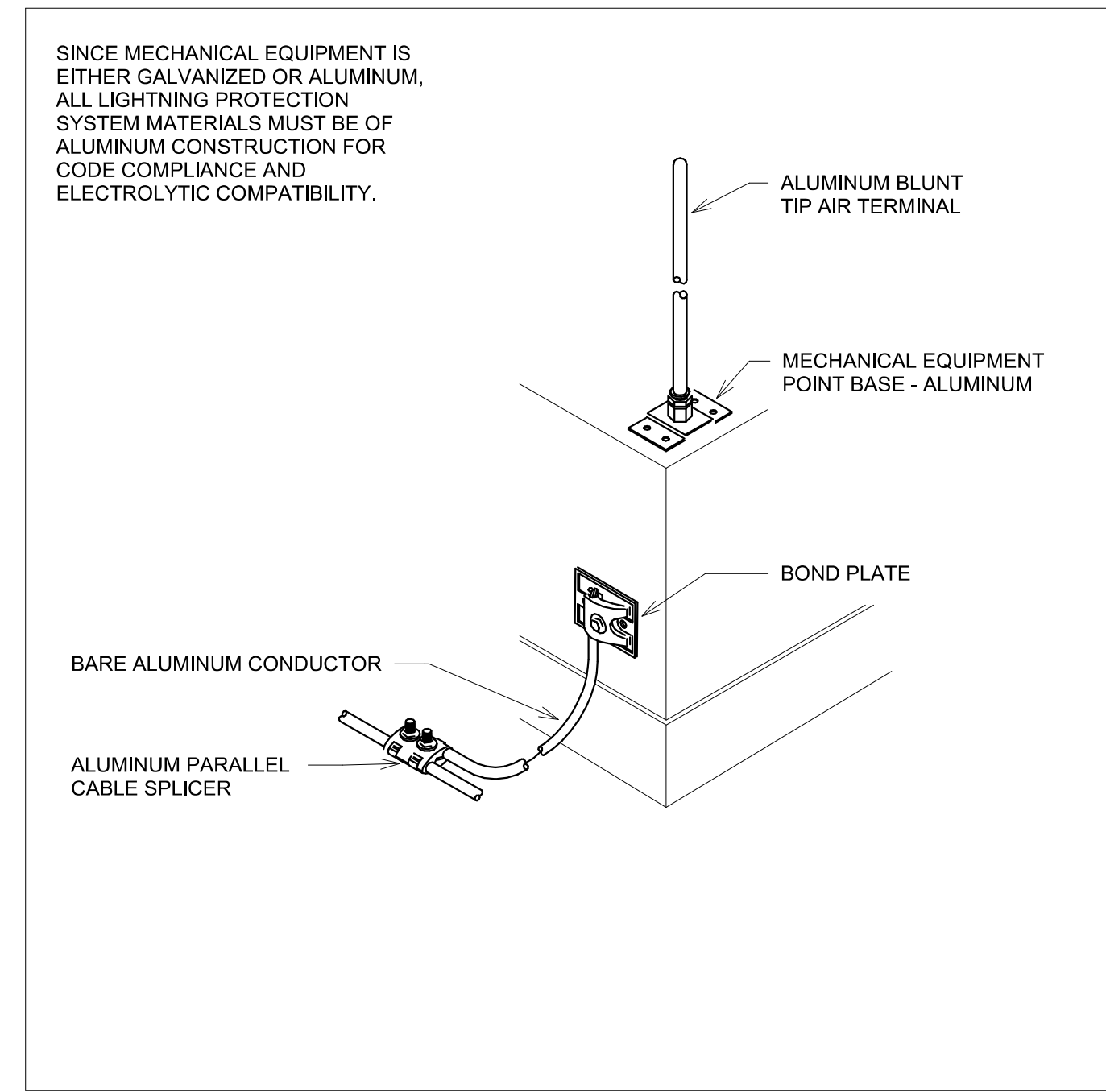
8 TELECOMMUNICATIONS ROOM EQUIPMENT ELEVATION  
NO SCALE



4 CARD READER ROUGH-IN DETAIL - HEALTH CARE  
NO SCALE



10 CUBE RELAY  
NO SCALE



9 AIR TERMINAL - MECHANICAL EQUIPMENT - PARALLEL CABLE DETAIL  
NO SCALE

SINCE MECHANICAL EQUIPMENT IS EITHER GALVANIZED OR ALUMINUM, ALL LIGHTNING PROTECTION SYSTEM MATERIALS MUST BE OF ALUMINUM CONSTRUCTION FOR CODE COMPLIANCE AND ELECTROLYTIC COMPATIBILITY.

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Revision# Description Date:		ARCHITECT OF RECORD: Stone Group Architects		STAMP: CURTIS D. BARLAGE		Office of Construction and Facilities Management		Phase: CONSTRUCTION DOCUMENTS		Project Title: NEW FRONT LOBBY AND PRIMARY CARE ADDITION		Project Number: VA #438-480 SGA #201909	

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

ACTION	FIRE ALARM DEVICE										
	NOTES	MANUAL PULL STATION	AREA SMOKE DETECTOR	PATIENT ROOM SMOKE DETECTOR	DEDICATED DOOR HOLD SMOKE DETECTOR	F/S DAMPER DUCT DETECTOR	AHU DUCT DETECTOR	FA PHONE LINE LOSS	FIRE ALARM PANEL/ CIRCUIT TROUBLE	SPEAKER AMP OR TONE GENERATOR TROUBLE	PRIMARY & SECONDARY POWER MONITOR
SEND ALARM SIGNAL TO FACP	1	XX	XX		XX						
SEND SUPERVISORY SIGNAL TO FACP	1			XX		XX	XX				
SEND TROUBLE SIGNAL TO FACP	1							XX	XX	XX	XX
SHUT DOWN ENTIRE SMOKE COMPARTMENT SUPPLY, RETURN, AND EXHAUST FANS; & CLOSE ASSOCIATED SMOKE DAMPERS			XX	XX		XX	XX				
ACTIVATE NOTIFICATION DEVICES ON ALL FLOORS	5	XX	XX								
ACTIVATE NOTIFICATION DEVICES ON FLOOR OF ACTIVATION, FLOOR ABOVE, AND FLOOR BELOW	5										
RELEASE DOOR HOLDS, POWERED FIRE DOORS, AND POWERED SECURITY DOORS THROUGHOUT BUILDING		XX								XX	
RELEASE DOOR HOLDS, POWERED FIRE DOORS, AND POWERED SECURITY DOORS IN SMOKE COMPARTMENT OF INITIATION ONLY			XX	XX		XX					
CLOSE DAMPERS ON FAN PROXIMATE TO DETECTOR		XX			XX						
NOTES:			2,4	4,9	6	4	4	3			7,10

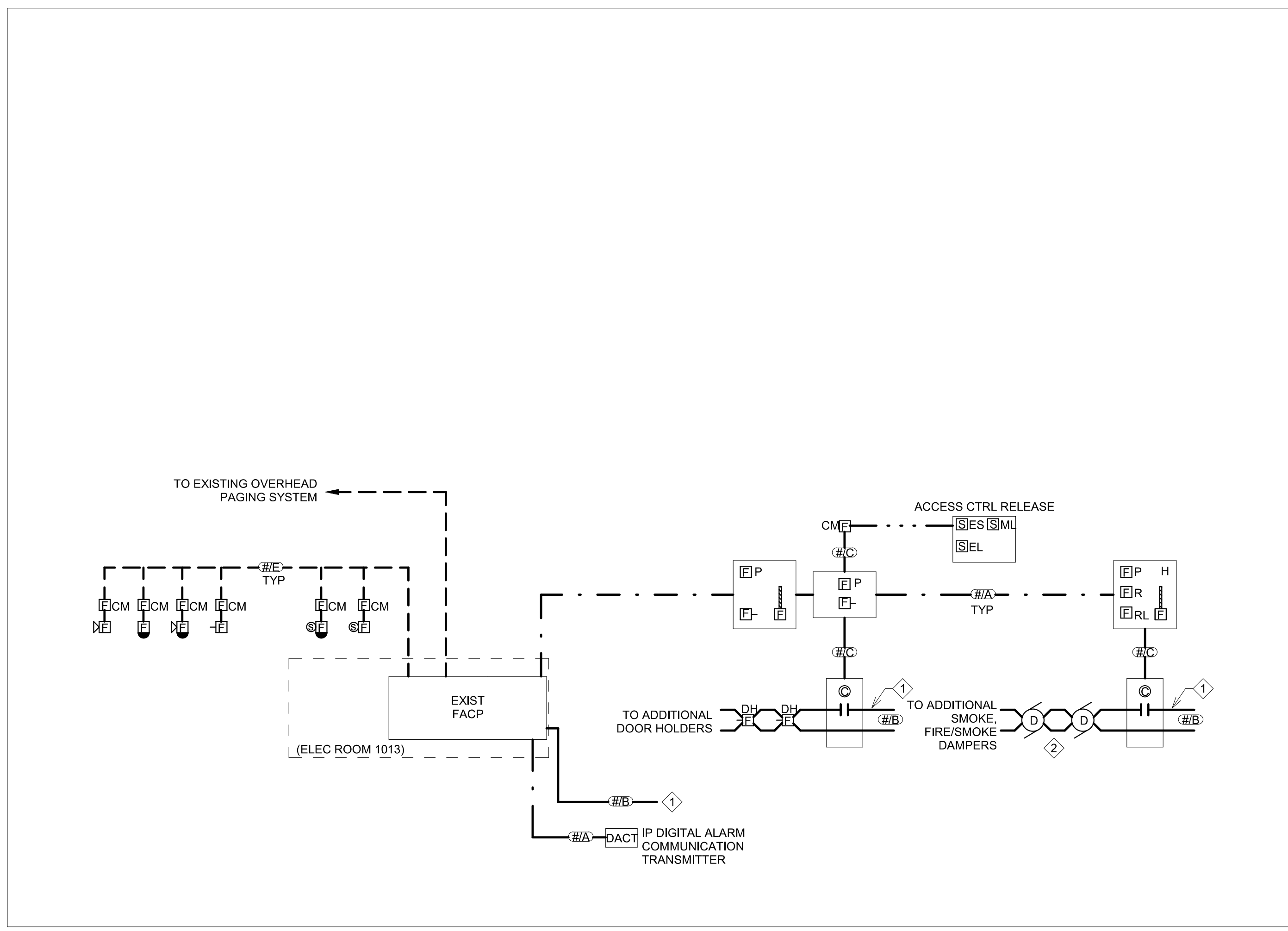
**GENERAL NOTES:**  
 A. REFER TO DIVISION 28 SPECIFICATIONS FOR ADDITIONAL FIRE ALARM SYSTEM REQUIREMENTS.  
 B. ALL ACTIONS SHALL INDICATE A SPECIFIC DEVICE AND LOCATION TO THE CONTROL PANEL(S), ANNUNCIATOR PANEL(S), DACT, AND SYSTEM PRINTER.  
 C. NOT ALL DEVICES MAY BE REQUIRED. REFER TO PLANS FOR ACTUAL DEVICES.  
 D. EACH SMOKE COMPARTMENT SHALL HAVE A SEPARATE NOTIFICATION CIRCUIT TO ALLOW FOR ZONED NOTIFICATION.

**SPECIFIC NOTES:**  
 1. SEND SIGNAL TO REMOTE ALARM RECEIVING STATION.  
 2. IN SOME ROOMS, AREA SMOKE DETECTORS SHALL BE PROGRAMMED SO THAT UPON ACTIVATION OF THE FIRST SMOKE DETECTOR, A SUPERVISORY SIGNAL IS SENT. UPON ACTIVATION OF A SECOND SMOKE DETECTOR AN ALARM SIGNAL WILL BE SENT. REFER TO PLANS FOR DUAL SMOKE DETECTOR LOCATIONS AND ZONING.  
 3. FACP SHALL SWITCH TO SECOND PHONE LINE AND SEND TROUBLE SIGNAL TO REMOTE ALARM RECEIVING STATION.  
 4. FOR SMOKE TYPE DETECTORS FOR SMOKE DAMPER CONTROL, FACP SHALL SEND SIGNAL TO BUILDING MANAGEMENT SYSTEM TO SHUT DOWN ONLY SUPPLY, RETURN, AND EXHAUST FANS FOR ENTIRE AFFECTED SMOKE COMPARTMENT (10) SECONDS PRIOR TO CLOSING ASSOCIATED FIRE/SMOKE DAMPERS. REFER TO AHU ZONING PLANS.  
 5. ACTIVATE ALL EXTERIOR NOTIFICATION DEVICES.  
 6. RELEASE DOOR HOLD FOR ASSOCIATED DOOR ONLY. REFER TO PLANS FOR DEDICATED DOOR HOLD SMOKE DETECTOR LOCATIONS.  
 7. FOR OVERHEAD COILING DOORS, PROVIDE TIME DELAY OF AT LEAST 15 SECONDS AFTER LOSS OF POWER BEFORE DOOR HOLDS ARE RELEASED.  
 8. NOT USED.  
 9. SMOKE DETECTOR SHALL HAVE AUXILIARY CONTACTS FOR CONNECTION TO PATIENT ROOM NURSE CALL LIGHT, WIRING BY OTHERS.  
 10. DACT PRIMARY POWER TROUBLE SIGNAL SHALL BE SENT WHEN BATTERY CAPACITY IS BETWEEN 25 & 50%.

- GENERAL NOTES**
- THE WIRING DIAGRAM IS CONCEPTUAL ONLY AND DOES NOT INDICATE ALL DEVICES, DEVICE TYPES OR QUANTITY OF LOOPS. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES AND LOCATIONS.
  - THE SYSTEM DIAGRAM IS BASED ON A DIGITAL, ADDRESSABLE FIRE ALARM SYSTEM.
  - ALL WIRING AND CABLING SHALL BE IN CONDUIT (MINIMUM 3/4" C). EMT CONDUIT USED FOR FIRE ALARM WIRING SHALL INCLUDE FACTORY-APPLIED RED TOPCOAT UL-LISTED FOR FIRE ALARM USE.
  - THE INSTALLATION SHALL BE FROM DRAWINGS THAT HAVE BEEN SUBMITTED, REVIEWED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION.
  - EACH SIGNALING CIRCUIT SHALL ALLOW 15% SPARE CAPACITY TO ADD ADDITIONAL AUDIO, VISUAL OR COMBINATION AUDIOVISUAL SIGNALING DEVICES TO ANY OF THESE CIRCUITS.
  - PROVIDE THE CONTROL WIRING FROM FIRE ALARM CONTROLLER TO THE HVAC CONTROLLER.
  - ALL SPRINKLER HEADS, LOCATED IN ELEVATOR SHAFTS AND ELEVATOR EQUIPMENT ROOMS, ARE TO HAVE A HEAT DETECTOR MOUNTED WITHIN TWO (2) FEET OF HEAD FOR ACTIVATION OF SHUNT TRIP POWER DEVICE. VERIFY QUANTITY ON SITE.
  - REFER TO FIRE ALARM CONTROL MATRIX FOR ALL CONTROL REQUIREMENTS.

2 Fire Alarm Control Matrix  
NO SCALE

- KEY NOTES**
- LIFE SAFETY BRANCH CIRCUIT (REFER TO POWER PLAN DWGS).
  - FIRE/SMOKE AND SMOKE DAMPER MOTORS ARE SHOWN ON MECHANICAL PLANS. VERIFY QUANTITIES AND LOCATIONS. PROVIDE FIRE ALARM CONNECTIONS TO RELAY SO THAT THE FIRE/SMOKE AND SMOKE DAMPERS CLOSE UPON LOSS OF POWER. (DIV. 26 SHALL PROVIDE RELAY AND CIRCUITING. SEE POWER PLANS FOR 120V CIRCUITING, RELAY LOCATIONS, ETC.) PROVIDE ONE (1) FIRE ALARM CONTROL MODULE PER FIRE/SMOKE DAMPER AND (1) ADDITIONAL FIRE ALARM CONTROL MODULE PER SMOKE ZONE FOR INTEGRATION WITH SMOKE EVACUATION SEQUENCE OF OPERATIONS. SEE ARCH. LIFE SAFETY PLANS FOR SMOKE ZONES.



1 FIRE ALARM CABLING RISER DIAGRAM  
NO SCALE

**CABLE TYPE**

— CABLE TYPE CALLOUT  
 — CABLE QUANTITIES

— INITIATING LINE CIRCUIT  
 — BRANCH CIRCUIT  
 — CONTROL CIRCUIT  
 — FIBER OPTIC CONNECTION  
 — SIGNAL LINE CIRCUIT  
 — TWO-HOUR RATED PRIMARY BACKBONE (CLASS A)  
 — TWO-HOUR RATED REDUNDANT BACKBONE (CLASS A)  
 — FUTURE FIRE FIGHTERS TELEPHONE HOMERUN  
 — AUDIO INPUT

Revision#	Description	Date:

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**STONE GROUP ARCHITECTS**

Office of Construction and Facilities Management  
 VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL DETAILS

Approved: \_\_\_\_\_

Phase: CONSTRUCTION DOCUMENTS

Project Title: NEW FRONT LOBBY AND PRIMARY CARE ADDITION

Location: SIOUX FALLS, SOUTH DAKOTA

Issue Date: 06/22/2022

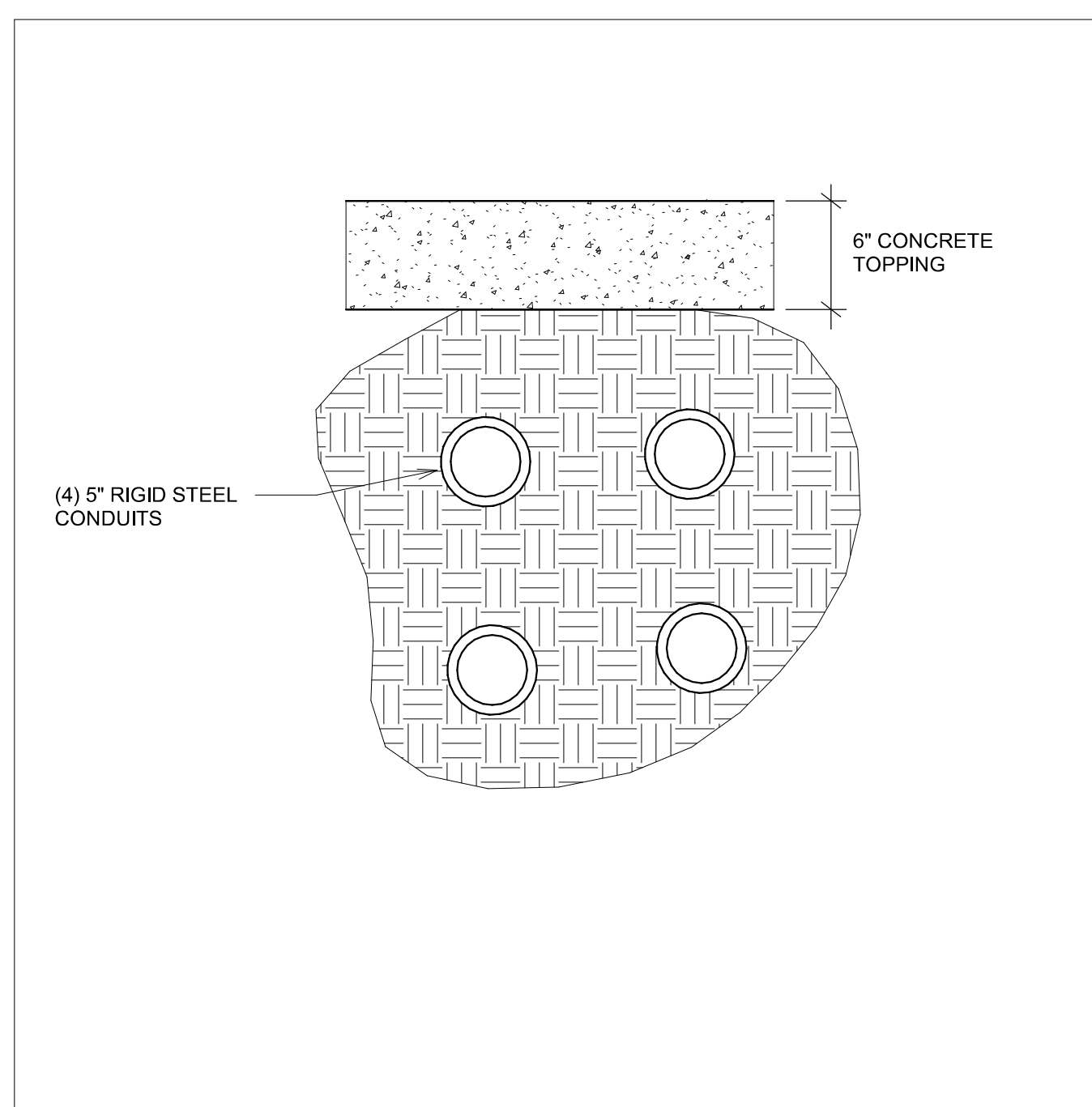
Checked: CB

Drawn: BZ

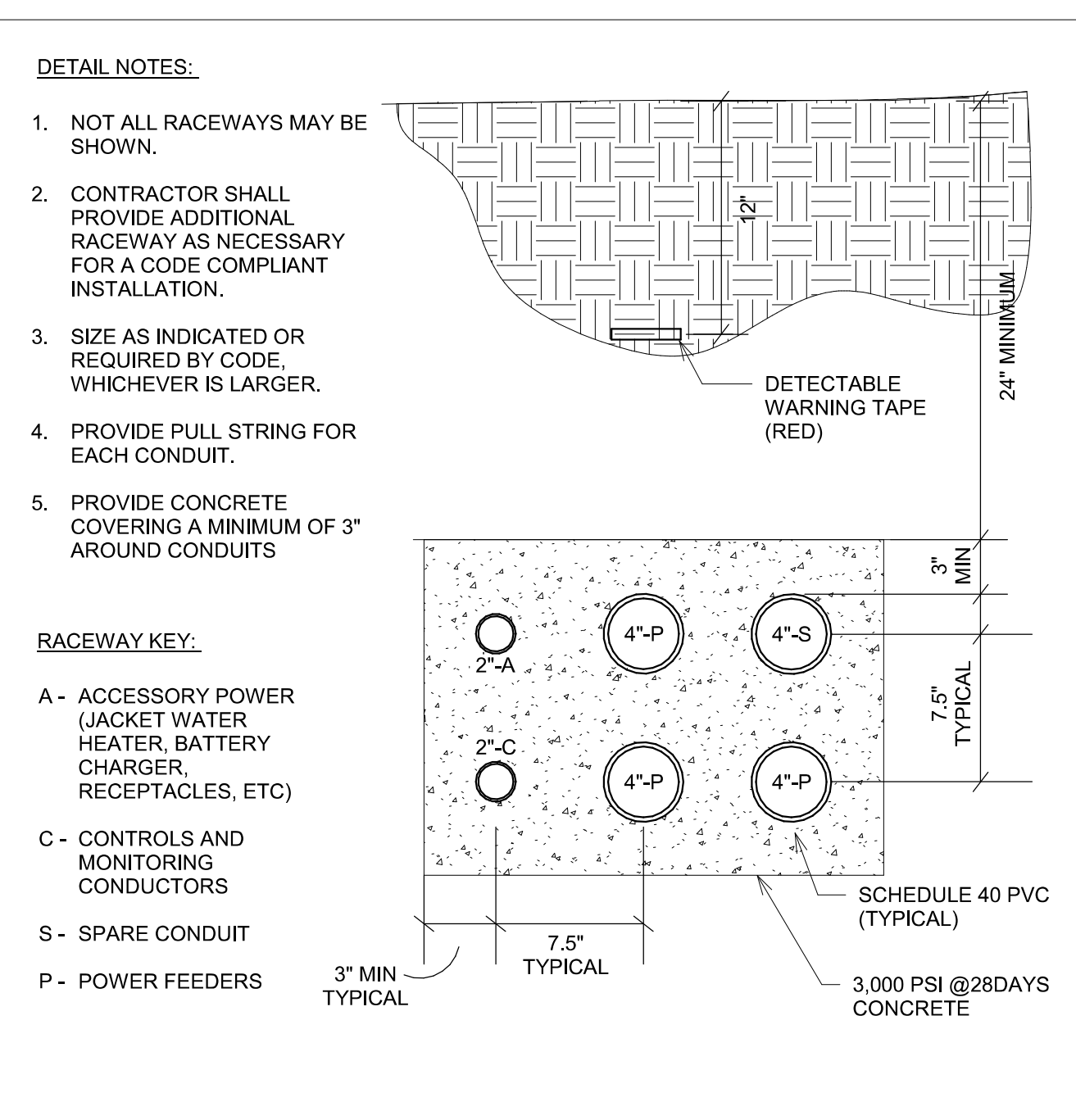
Project Number: VA #438-480 SGA #201909

Building Number: 5

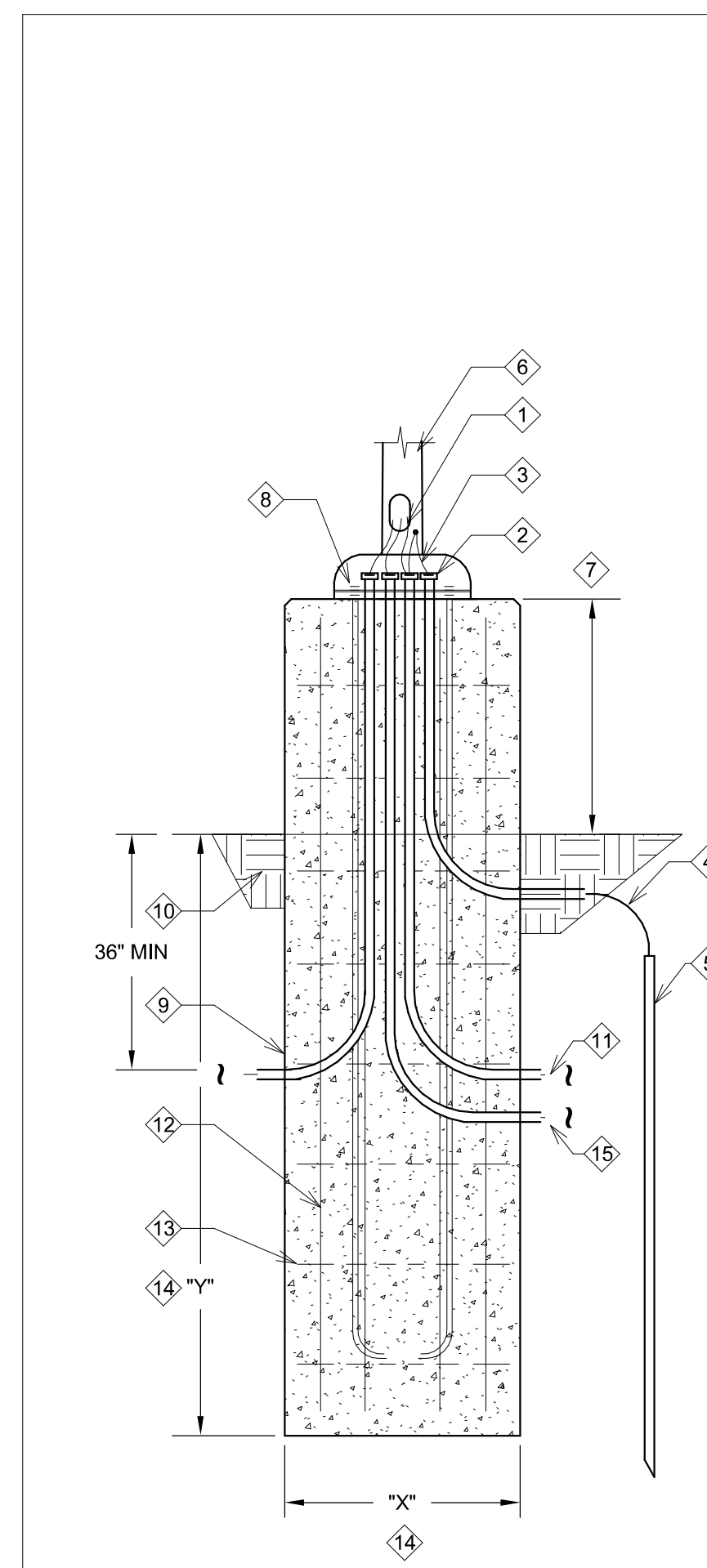
Drawing Number: EE502



1 DUCTBANK - TEMP 4 SLEEVE DETAIL  
NO SCALE



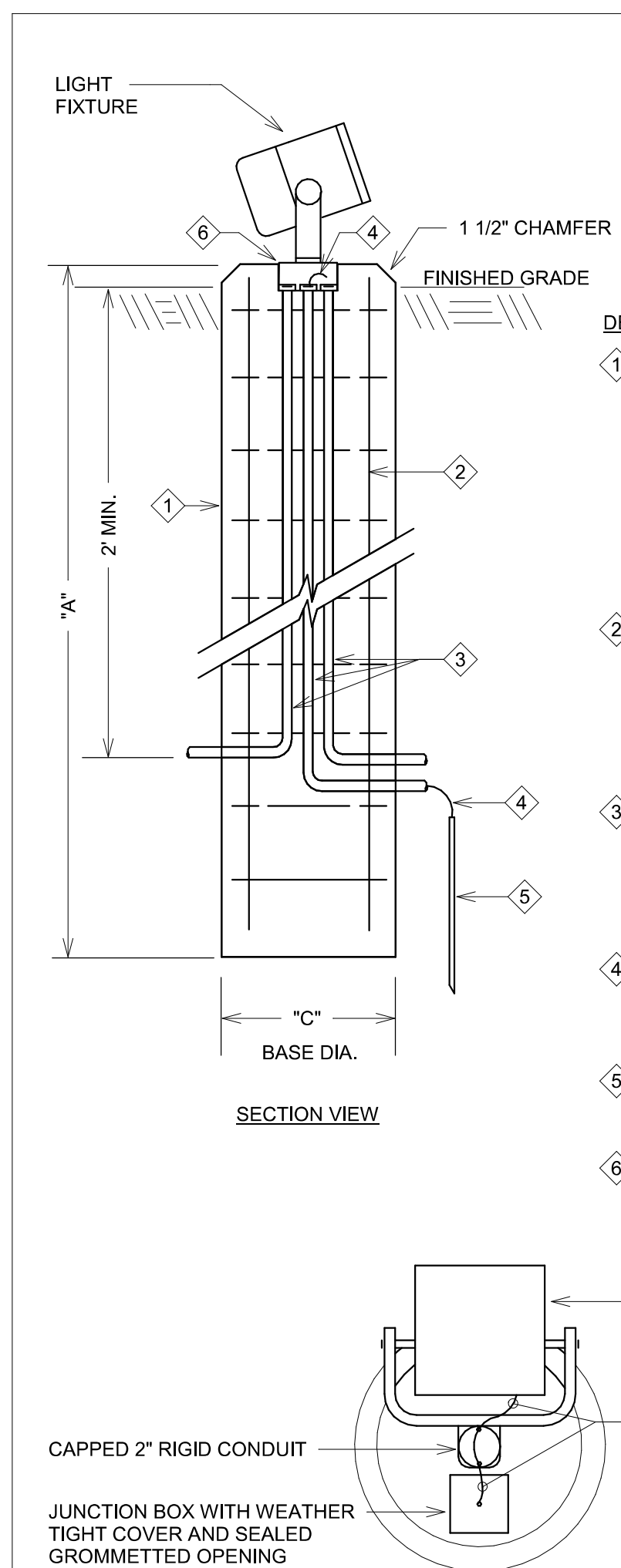
2 DUCTBANK - CONCRETE ENCASED DUCTBANK  
NO SCALE



3 EXTERIOR POLE BASE DETAIL WITH GROUNDING  
NO SCALE

**DETAIL NOTES:**

- 1 #12 WIRE TO FIXTURE(S) OR AS INDICATED. PROVIDE IN-LINE FUSE AND FUSE HOLDER WITH BREAKAWAY CAPABILITY, FERRAZ SHAWMUT FBY, COOPER HEB SERIES, (4)(20)(XX) AMPERE BUSSMAN TYPE KTK OR PRE-APPROVED EQUAL.
- 2 PROVIDED BUSHED RIGID CONDUITS. CONDUIT STUBBED UP ADJACENT TO HANDHOLE. NUMBER AND SIZE AS REQUIRED. CAP SPARE CONDUITS.
- 3 COPPER EQUIPMENT GROUNDING CONDUCTOR - ATTACH TO INTERNAL LUG WELDED TO INTERIOR OF POLE. CONDUCTOR TO BE SAME SIZE AND TYPE AS SUPPLY PHASE CONDUCTOR.
- 4 INSULATED COPPER GROUNDING CONDUCTOR ATTACHED TO INTERNAL LUG WELDED TO INTERIOR OF POLE. SIZE PER NFPA 70. EXOTHERMIC WELD TO DRIVEN GROUND ROD.
- 5 3/4"x10" COPPER GROUND ROD (MIN 6" BELOW GRADE).
- 6 FIXTURE POLE - REFER TO SITE LIGHTING FIXTURE SCHEDULE AND LIGHTING STANDARD DETAILS.
- 7 SET TOP OF CONCRETE FOUNDATION ABOVE GRADE AS INDICATED ON SITE LIGHTING FIXTURE SCHEDULE.
- 8 PROVIDE DOUBLE ANCHOR BOLT NUTS ABOVE AND BELOW POLE BASE. ADJUST TO PLUMB POLE. ANCHOR BOLT ASSEMBLY SHALL BE PROVIDED BY POLE MFG. INSTALL ACCORDING TO MFG TEMPLATE. USE SHRINK PROOF GROUT ON BASE. FURNISH BASE COVER FOR POLES.
- 9 REINFORCED ROUND CONCRETE FOUNDATION BASE. CONCRETE 5-7% AIR ENTRAINED 4000 PSI MINIMUM. 3 INCH MINIMUM CONCRETE COVER ON BARS AND TIES. FINISH CONCRETE ABOVE GRADE LEVEL AND BEVEL EDGE 45 DEGREES. FOOTING SHALL BE FORMED WHERE SOIL CONDITIONS REQUIRE. CHAMFER ALL EDGES OF CONCRETE BASE 1/2". TREAT EXPOSED CONCRETE WITH PROSOCCO SALT-GUARD WATER-BASED OR PRE-APPROVED EQUAL.
- 10 FULLY COMPACTED BACKFILL.
- 11 CIRCUIT CONDUCTORS AND CONDUIT TO POWER SOURCE OR NEXT POLE.
- 12 #4 BARS VERTICAL AT 6" EACH FACE (UNLESS NOTED OTHERWISE ON SITE LIGHTING FIXTURE SCHEDULE).
- 13 #3 BARS AT 12" ON CENTER HORIZONTALLY (UNLESS NOTED OTHERWISE ON SITE LIGHTING FIXTURE SCHEDULE).
- 14 REFER TO SITE LIGHTING FIXTURE SCHEDULE FOR DEPTH "Y" AND WIDTH "X" DIMENSIONS.
- 15 PROVIDE A MINIMUM ONE INCH RACEWAY FOR SECURITY DEVICES (AND CCTV CAMERAS). RACEWAY SHALL EXTEND TO SECURITY SYSTEM HEAD END UNLESS NOTED OTHERWISE.

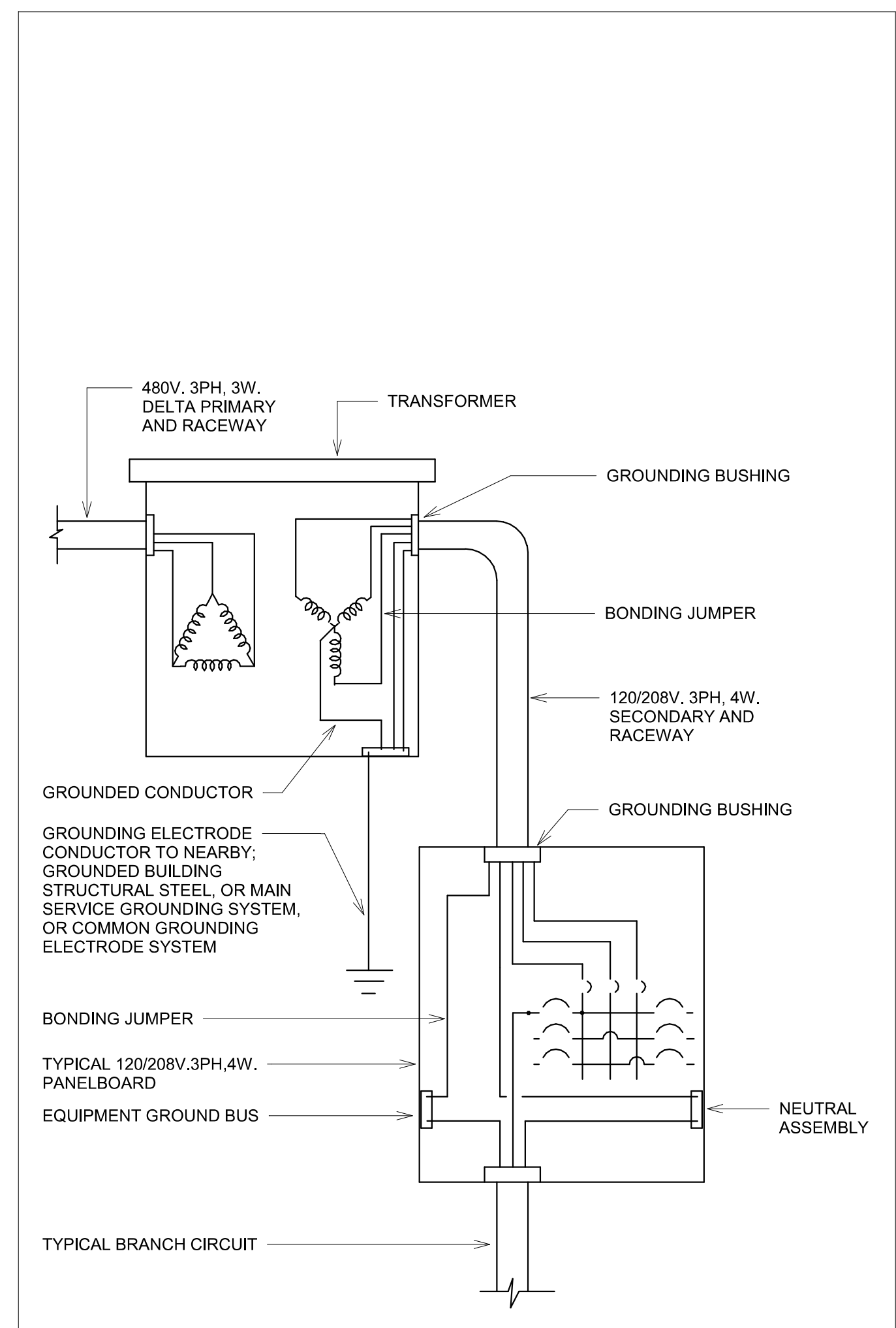


4 LIGHTING ASSEMBLY BASE DETAIL  
NO SCALE

**DETAIL KEY NOTES:**

- 1 REINFORCED ROUND CONCRETE FOUNDATION BASE. CONCRETE 5-7% AIR ENTRAINED 4000 PSI MINIMUM DIMENSIONS AND REINFORCING PER SCHEDULE - FINISH ALL CONCRETE ABOVE GRADE LEVEL AND BEVEL EDGE 45 DEGREES. ALL POLE BASES PROVIDED BY ELECTRICAL CONTRACTOR. TREAT EXPOSED CONCRETE WITH PROSOCCO SALT-GUARD WATER-BASED OR EQUAL.
- 2 PROVIDE HORIZONTAL AND VERTICAL REINFORCING STEEL PER SCHEDULE FOR FIXTURE TYPE. 3" MINIMUM CONCRETE COVER ON BARS AND TIES. FOOTING SHALL BE FORMED WHERE SOIL CONDITIONS REQUIRE.
- 3 PROVIDE BUSHED RIGID CONDUITS SIZED AS REQUIRED FOR FEEDERS AND GROUNDING CONDUCTOR. PROVIDE CONDUIT CAP ON CONDUITS RESERVED FOR FUTURE USE.
- 4 #2 COPPER GROUNDING CONDUCTOR. CONNECT TO POLE GROUNDING LUG AND DRIVEN GROUND ROD.
- 5 5/8"x10" COPPER WELD GROUND ROD. TOP OF ROD 6" MINIMUM BELOW GRADE.
- 6 JUNCTION BOX WITH WEATHER TIGHT COVER AND SEALED GROMMETTED OPENING.

FIXT. TYPE	"A"	"B"	"C"	VERT. BARS	TIES
W2	36"	-	12"	4	3



5 TRANSFORMER WIRING - PANELBOARD TYPE DETAIL  
NO SCALE

Revision#	Description	Date:

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**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL DETAILS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title  
**NEW FRONT LOBBY AND PRIMARY CARE ADDITION**

Location  
**SIoux FALLS, SOUTH DAKOTA**

Issue Date  
06/22/2022

Checked  
CB

Drawn  
BZ

Project Number  
VA #438-480  
SGA #201909

Building Number  
5

Drawing Number  
EE503

**LIGHTING CONTROL SEQUENCE SCHEDULE**

LIGHTING CONTROL SEQUENCE	VACANCY SENSOR	OCCUPANCY SENSOR	AUTO OFF TIME (MINUTES)	LIGHT SWITCHING % (MIN 50%)	DIMMING TYPE	DIMMING LEVEL	SIDEWALL DAYLIGHT HARVEST (AUTOMATIC/SWITCHED)	MANUAL ON/OFF	NOTES
LC 1	-	DT	15	50	0-10V	0.01	AUTOMATIC	YES	
LC 3	PIR	-	5	50	0-10V	0.1	-	YES	
LC 10	-	-	-	-	0-10V	0.1	AUTOMATIC	YES	

**GENERAL NOTES:**  
 A. PROVIDE ALL PARTS AND PIECES NECESSARY TO MAKE A FUNCTIONAL LIGHTING CONTROL SYSTEM WITH ALL CONTROLS AS MARKED ABOVE.  
 B. SUPPLIER TO PROVIDE COMPLETE WIRING DIAGRAM PRIOR TO INSTALLATION.  
 C. IF DIMMING IS CALLED FOR IN SCHEDULE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND PROVIDE ALL NECESSARY PARTS, BALLASTS, DRIVERS, ETC. TO PROVIDE THE DIMMING FUNCTION.  
 D. CONTRACTOR TO PROVIDE ALL WIRING NECESSARY INCLUDING ANY 0-10V CONTROL WIRING AS REQUIRED.  
 E. CONTRACTOR MUST COMPLY WITH THE CONTROLS INTENT AS INDICATED ON THE DRAWINGS.  
 F. AT MINIMUM CONTRACTOR SHALL HOLD TWO PRE CONSTRUCTION MEETINGS, PRIOR TO BID, WITH THEIR SELECTED LIGHTING CONTROLS VENDOR OR SUPPLIER.  
 G. THE INTENT OF (2) PRE CONSTRUCTION MEETINGS IS TO DEVELOP AN UNDERSTANDING OF THE CONTROL SYSTEM TO ACCURATELY ACCOUNT FOR ALL POWER, CONTROLS, CABLING, EQUIPMENT AND CONNECTION REQUIREMENTS.  
 H. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS, ACCESSORIES AND ASSOCIATED LABOR FOR THEIR SELECTED LIGHTING CONTROLS SYSTEM.

**ELECTRICAL NOTES:**

**LIGHT FIXTURE SCHEDULE**

FIXTURE LETTER	FIXTURE STYLE	VOLTAGE	MOUNTING	LAMPS		BALLAST/ DRIVER	FIXTURE MAX VA	CONTROL MEDIA (LENS, LOUVER, ETC.)	MANUFACTURER'S SERIES NUMBER	FIXTURE DESCRIPTION	NOTES
				TYPE	COLOR						
A1	2X4 LED LENSED TROFFER	120	LAY-IN GRID INVERTED TEE	LED 4000 LUM MIN	4000K	DIMMING 0-10V (1%)	40 VA	0.125" MINIMUM ACRYLIC LENS	COOPER CRUIZE SERIES OR APPROVED EQUAL	SPRING LATCHES, POST PAINTED STEEL HOUSING, FLUSH ALUM. MITERED CORNERED DOOR FRAME, GASKETED AND/OR WITH METAL LIGHT Baffles, DOOR CAN BE LATCHED FROM EITHER SIDE OF HOUSING	
B1	2X2 LED LENSED TROFFER	120	LAY-IN GRID INVERTED TEE	LED 3500 LUM MIN	4000K	DIMMING 0-10V (1%)	25 VA	0.125" MINIMUM ACRYLIC LENS	COOPER CRUIZE SERIES OR APPROVED EQUAL	SPRING LATCHES, POST PAINTED STEEL HOUSING, FLUSH WHITE ALUM. MITERED CORNERED DOOR FRAME, GASKETED AND/OR WITH METAL LIGHT Baffles, DOOR CAN BE LATCHED FROM EITHER SIDE OF HOUSING	
B7	2X2 LED VOLUMETRIC TROFFER	120	LAY-IN GRID INVERTED TEE	LED 1500 LUM MIN	6500K	DIMMING 0-10V (1%)	60 VA	ACRYLIC NON-GLARE MATTE FINISH	SKY FACTORY EP22-CLA SERIES	MOISTURE RESISTANT ALUMINUM ELEVATOR FRAME, POWDER COATED WHITE MATTE FINISH, BUILT IN TRANSFORMER TO OUTPUT 24V.	
D4	4" ROUND DOWNLIGHT	120	RECESSED GYP-BOARD AND/OR LAY-IN GRID INVERTED TEE	LED 1000 LUM MIN	4000K	DIMMING 0-10V (1%)	15 VA	SEMI-SPECULAR CLEAR SELF FLANGED MEDIUM DISTRIBUTION	HALO COMMERCIAL HC4 SERIES PRESCOLITE LF4 SERIES LITHONIA LDM SERIES OR APPROVED EQUAL	PRE-PAINTED WHITE ALUMINUM HOUSING, PRE-WIRED J-BOX, TWO 27 HANGER BARS	
E1	EXIT SIGN, SINGLE FACE, EDGE LIT, AC ONLY	120	RECESSED	LED	RED	N/A	4 VA	RED LETTERS	ISOLITE ELT SERIES DUAL LITE LE SERIES EVENLITE SOV SERIES OR APPROVED EQUAL	BRUSHED ALUMINUM BASE, CLEAR FACE, MIRROR BACK, UNIVERSAL FACERPLATE KIT, MOUNTING PER FLOOR PLAN, AC ONLY UL924	
E2	EXIT SIGN, DOUBLE FACE, EDGE LIT, AC ONLY	120	RECESSED	LED	RED	N/A	5 VA	RED LETTERS	ISOLITE ELT SERIES DUAL LITE LE SERIES EVENLITE SOV SERIES OR APPROVED EQUAL	BRUSHED ALUMINUM BASE, CLEAR FACE, MIRROR BACK, UNIVERSAL FACERPLATE KIT, MOUNTING PER FLOOR PLAN, AC ONLY UL924	
F2	2" INDUSTRIAL	120	SURFACE/ CHAIN HUNG	LED 1500 LUM MIN	4000K	DIMMING 0-10V (1%)	30 VA	SEMI FROSTED ACRYLIC LENS	COOPER-METALUX SNLED SERIES COLUMBIA LCL SERIES LITHONIA CLX SERIES OR APPROVED EQUAL	STEEL CHANNEL, WHITE POWDER COAT	1
F4	4" INDUSTRIAL	120	SURFACE/ CHAIN HUNG	LED 3500 LUM MIN	4000K	DIMMING 0-10V (1%)	30 VA	SEMI FROSTED ACRYLIC LENS	COOPER-METALUX SNLED SERIES COLUMBIA LCL SERIES LITHONIA CLX SERIES OR APPROVED EQUAL	STEEL CHANNEL, WHITE POWDER COAT	
F6	4" INDUSTRIAL, GASKETED VAPORTITE	120	SURFACE/ CHAIN HUNG	LED 3500 LUM MIN	4000K	DIMMING 0-10V (10%)	30 VA	ACRYLIC, FROSTED LENS	COOPER-METALUX 4VT2-LD4 SERIES COLUMBIA LXEM SERIES LITHONIA FEM LED SERIES OR APPROVED EQUAL	WET LOCATION, IP-65	
L1	1.5" X 4" RECESSED LINEAR WALL WASH	120	LAY-IN GRID INVERTED TEE	LED 100 LUM/FT	4000K	DIMMING 0-10V (1%)	24 VA	FLUSH, 0.125" MINIMUM ACRYLIC LENS	MARK ARCHITECTURAL SPR LED SERIES OR APPROVED EQUAL	EXTRUDED ALUMINUM HOUSING, STEEL CHANNEL, WHITE POWDER COAT	
L3	1.5" X 2" RECESSED LINEAR WALL WASH	120	LAY-IN GRID INVERTED TEE	LED 100 LUM/FT	4000K	DIMMING 0-10V (1%)	12 VA	FLUSH, SNAP-IN SATIN LENS	MARK ARCHITECTURAL SPR LED SERIES OR APPROVED EQUAL	CONTINUOUS WHITE ALUMINUM HOUSING	
L5	5" X 4" RECESSED LINEAR	120	LAY-IN GRID INVERTED TEE	LED 1000 LUM/FT	4000K	DIMMING 0-10V (1%)	44 VA	FLUSH, SNAP-IN SATIN LENS	NEO-RAY DEFINE 5 SERIES OR APPROVED EQUAL	CONTINUOUS WHITE ALUMINUM HOUSING	

**GENERAL ELECTRICAL NOTES:**  
 A. REFER TO SPECIFICATION SECTIONS 265100 AND 265600 FOR LIGHT FIXTURE REQUIREMENTS.  
 B. BRING CONFLICTS BETWEEN THE MANUFACTURER'S CATALOG NUMBER AND DESCRIPTIONS TO THE ATTENTION OF THE ENGINEER.  
 C. LIGHT SOURCE SHALL HAVE COLOR TEMPERATURE 3500K WITH MINIMUM CRI OF 80 UNLESS OTHERWISE NOTED.  
 D. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS NAMED, THE MANUFACTURER'S NAMED ALTERNATES MUST SUBMIT CATALOG CUT SHEETS AND IES FORMATTED PHOTOMETRIC REPORT TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE. THE ENGINEER MAY REQUEST SAMPLE OF LUMINAIRE TO BE SUPPLIED.  
 E. MINIMUM LUMENS LISTED FOR LIGHT FIXTURES ARE DELIVERED LUMENS BASED ON PHOTOMETRIC TESTING COMPLETED IN ACCORDANCE WITH IES LM-79 STANDARDS.  
 F. SUBSTITUTE LIGHT FIXTURE IS SUBJECT TO ARCHITECT/ENGINEER APPROVAL.

**NOTES:**  
 1. MOUNT FIXTURE ON BOTTOM OF CLEAR STORY, PROVIDING UPLIGHT.

**FLOORBOX/POKE THRU SCHEDULE**

TYPE	MANUFACTURER	MODEL/SERIES	GENERAL DESCRIPTION	POWER DESCRIPTION	COMMUNICATIONS DESCRIPTION	NOTES
C1	LEGRAND WIREMOLD	RESOURCE RFB E SERIES OR APPROVED EQUAL	4 GANG, SLAB ON GRADE, BLACK EVOLUTION SERIES COVER	(2) DUPLEX RECEPTACLES, CIRCUIT INDICATED ON PLAN	(1) COVER PLATE WITH UP TO (4) PORTS OF COMMUNICATION DEVICES, INTERNAL BLANK COVERPLATE FOR UNUSED GANGS.	

**GENERAL NOTES:**  
 A. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.  
 B. FLOOR BOX/POKE-THRU FURNISHED AND INSTALLED BY DIVISION 26, UNLESS NOTED OTHERWISE.

**LIGHT FIXTURE SCHEDULE - SITE**

FIXTURE LETTER	FIXTURE STYLE	VOLTAGE	MOUNTING	LAMPS		BALLAST/ DRIVER	FIXTURE MAX VA	CONTROL MEDIA (LENS, LOUVER, ETC.)	MANUFACTURER'S SERIES NUMBER	FIXTURE DESCRIPTION	POLE DESCRIPTION						BASE DESCRIPTION				NOTES					
				TYPE	COLOR						POLE LENGTH	POLE SHAPE	POLE MATERIAL	POLE COLOR/ FINISH	FIXTURE MOUNTING	SUPPORTS CCTV CAMERA (EPA RATING)	SUPPORTS FLAG OR BANNER (EPA RATING)	INTEGRAL DUPLEX RECEPTACLE	VIBRATION DAMPERS	FOUNDATION		BASE HEIGHT ABOVE GRADE	BASE DEPTH BELOW GRADE	BASE DIAMETER	VERTICAL REBAR	REBAR TIES
AA1	POLE MOUNTED AREA LIGHT - 1 HEAD	480	POLE	LED 7000 LUM MIN	4000K	XXXMA	70 VA	TYPE III DISTRIBUTION	LUMARK PREVAIL SERIES BEACON VIPER LARGE SERIES LITHONIA DSX SERIES	DARK SKY COMPLIANT, DIE-CAST ALUMINUM CONSTRUCTION, TOOLLESS OPENING, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	22'		ALUMINUM			NO	YES	CONCRETE BASE	3'	6'	24"	#4	#3			
AA2	POLE MOUNTED AREA LIGHT - 2 HEAD	480	POLE	LED 14000 LUM MIN PER HEAD	4000K	XXXMA	70 VA PER HEAD	TYPE III DISTRIBUTION	LUMARK PREVAIL SERIES BEACON VIPER LARGE SERIES LITHONIA DSX SERIES	DARK SKY COMPLIANT, DIE-CAST ALUMINUM CONSTRUCTION, TOOLLESS OPENING, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	22'		ALUMINUM		YES	YES	NO	YES	CONCRETE BASE	3'	6'	24"	#4	#3		
AA4	POLE MOUNTED PEDESTRIAN LIGHT - 1 HEAD	480	POLE	LED 4500 LUM MIN	4000K	XXXMA	48 VA	TYPE III DISTRIBUTION	INVUE LXS SERIES OR APPROVED EQUAL	DARK SKY COMPLIANT, DIE-CAST ALUMINUM CONSTRUCTION, TOOLLESS OPENING, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	11'		ALUMINUM		NO	YES	NO	CONCRETE BASE	3'	6'	24"	#4	#3			
BB1	BOLLARD	120	BOLLARD	LED 700 LUMENS	4000K	N/A	16 VA	360 DEGREE DISTRIBUTION	FC LIGHTING FCB450 SERIES KIM LIGHTING SERIES ARCLUCE KLOU SERIES	DARK SKY COMPLIANT, CAST CONSTRUCTION, MATCH COLOR LISTED IN EXTERIOR LIGHT POLE SCHEDULE	42"	--	--	--	--	--	--	CONCRETE BASE	ON GRADE	5'	12"	#4	#3			
FL1	SMALL FLOOD LIGHT	120	SURFACE	LED XXX LUM MIN	4000K	N/A	XX VA	SPOT DISTRIBUTION, CLEAR GLASS TEMPERED LENS	COOPER-TRC FLOODLIGHT SERIES OR APPROVED EQUAL	DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, IP66 RATED, PIVOTING, 180 DEGREE TILT, 360 DEGREE ROTATION																
L4	4" X 2" RECESSED LINEAR	120	RECESSED	LED 900 LUM/FT	4000K	DIMMING 0-10V (10%)	30 VA	FLUSH, SNAP-IN SATIN LENS	AXIS WET BEAM SERIES OR APPROVED EQUAL	EXTERIOR USE RATED, WET LISTED																
R3	WEATHER PROOF WALL PACK - CYLINDER	120	WALL	LED 800 LUM MIN	4000K	DIMMING 0-10V	15 VA	CLEAR TEMPERED GLASS, TYPE III DISTRIBUTION	LITHONIA OLLWU SERIES OR APPROVED EQUAL	BRONZE, INTEGRAL PHOTOCCELL																
R3A	WEATHER PROOF WALL PACK - CYLINDER	120	WALL	LED 800 LUM MIN	4000K	DIMMING 0-10V	15 VA	CLEAR TEMPERED GLASS, TYPE III DISTRIBUTION	LITHONIA OLLWU SERIES OR APPROVED EQUAL	BRONZE, INTEGRAL PHOTOCCELL																

**GENERAL ELECTRICAL NOTES:**  
 A. REFER TO SPECIFICATION SECTIONS 265100 AND 265600 FOR LIGHT FIXTURE REQUIREMENTS.  
 B. BRING CONFLICTS BETWEEN THE MANUFACTURER'S CATALOG NUMBER AND DESCRIPTIONS TO THE ATTENTION OF THE ENGINEER.  
 C. LIGHT SOURCE SHALL HAVE COLOR TEMPERATURE 3500K WITH MINIMUM CRI OF 80 UNLESS OTHERWISE NOTED.  
 D. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS NAMED, THE MANUFACTURER'S NAMED ALTERNATES MUST SUBMIT CATALOG CUT SHEETS AND IES FORMATTED PHOTOMETRIC REPORT TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE. THE ENGINEER MAY REQUEST SAMPLE OF LUMINAIRE TO BE SUPPLIED.  
 E. MINIMUM LUMENS LISTED FOR LIGHT FIXTURES ARE DELIVERED LUMENS BASED ON PHOTOMETRIC TESTING COMPLETED IN ACCORDANCE WITH IES LM-79 STANDARDS.  
 F. SUBSTITUTE LIGHT FIXTURE IS SUBJECT TO ARCHITECT/ENGINEER APPROVAL.

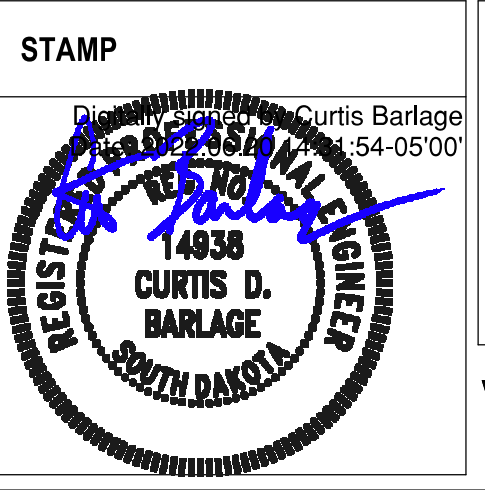
**NOTES:**

**CONSULTANTS**

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**ARCHITECT OF RECORD**

**A/E:**  
 Stone Group Architects  
 600 E 7th Street  
 Sioux Falls, SD 57103  
 605-271-1144



Office of Construction and Facilities Management  
 VA U.S. Department of Veterans Affairs

Drawing Title  
**ELECTRICAL SCHEDULES**  
 Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

Project Title NEW FRONT LOBBY AND PRIMARY CARE ADDITION	Project Number VA #438-480 SGA #201909
Location SIOUX FALLS, SOUTH DAKOTA	Drawing Number EE600
Issue Date 06/22/2022	Checked CB
	Drawn BZ

**NAME: LSESM2.1**  
 ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION:  
 SUPPLY FROM:  
 VOLTAGE: 120/208 PHASE: 3 WIRE: 4  
 MIN. BUS RATING: 125 A MAIN SIZE: 125 A MAIN OPTIONS: MCB

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	LITES-PUP TLT-1 2021A-1, HSK		20	1	1	20		INTERCOM STATIONS	2
3	LITES SPACE S8		20	1					4
5	CUH-F10C		20	1	--	--	SPACE		6
7	F.A DAMPER MOTORS		20	1	--	--	SPACE		8
9	2021 HC DOOR OPERATOR		20	1	--	--	SPACE		10
11					--	--	SPACE		12
13	FRONT LOBBY, RESTROOMS		20	1	1	20	LT 2024,2026,2027,2029,3039		14
15	INTERSTITIAL MECH RM		20	1	--	--	SPACE		16
17	TUNNEL LIGHTING		20	1	1	20	LT 2028,2030,2032,2033,2034		18

**GENERAL NOTES:**  
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

**NOTES:**  
 1. PROVIDE CIRCUIT BREAKER  
 2.  
 3.  
 4.

**NAME: HN2.1**  
 ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: ELEC 1003  
 SUPPLY FROM:  
 VOLTAGE: 277/480 PHASE: 3 WIRE: 4  
 MIN. BUS RATING: MAIN SIZE: MAIN OPTIONS:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1									2
3	TRD-N2.1		125	3	3	250		HNSM2.1	4
5									6
7	VFD-5-AHUJ-40		60	3	3	30		VFD-5-RF-40	8
11									10
13	SPARE		30	3	3	30		LIFT	14
15									16
17									18
19	HNSM2.2		200	3	3	0		SPACE	20
21									22
23									24
25									26
27	SPACE		0	3	3	0		SPACE	28
29									30
31									32
33	SPACE		0	3	3	0		SPACE	34
35									36
37									38
39	SPACE		0	3	3	0		SPACE	40
41									42

**GENERAL NOTES:**  
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

**NOTES:**  
 1.  
 2.  
 3.  
 4.

**NAME: LNSM2.1A**  
 ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION:  
 SUPPLY FROM:  
 VOLTAGE: 120/208 PHASE: 3 WIRE: 4  
 MIN. BUS RATING: 225 A MAIN SIZE: 225 A MAIN OPTIONS: MCB

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	Offices J03, J02, J04 PWR		20	1	1	20		C55A SKYFACTORY LIGHTING	2
3	Offices J05, J06, J07 PWR		20	1	1	20		C55A SKYFACTORY LIGHTING	4
5	Offices J08, J09 PWR		20	1	1	20		LOBBY SOFFIT	6
7	Waiting Lobby F03 PWR		20	1	1	20		LOBBY SOFFIT	8
9	Offices J10, J11, J12 PWR		20	1	1	30		AC 5-01A	10
11	Offices J13, J14, J15 PWR		20	1	1	30		AC 5-01B	12
13	Offices J16, J17 PWR		20	1	1	20		AC 5-02A	14
15	Nurse Station Check-In Computers, Storage PWR		20	1	1	30		AC 5-02B	16
17	Men's and Women's Restrooms J21-1, J20-1, C55a PWR		20	1	1	20		CUH 01&02	18
19	Check-In Computer Bank PWR		20	1	1	20		CUH 03&04	20
21	Check-In Computer Bank PWR		20	1					22
23	Waiting Alcove, Corridor F04, C55a PWR		20	1	3	20		SMP 1C	24
25	Waiting Alcove, Corridor C55, 184 PWR		20	1					26
27	Waiting Alcove 184 PWR		20	1	1	20		GFS 5-01	28
29	Lobby Vest, Wheelchair Storage J01C, J01B PWR		20	1	1	20		GFS 5-02	30
31	LOBBY OFFICES LGTNG		20	1	1	20		DWP 1-01	32
33	LOBBY CORRIDOR LGTNG		20	1	1	20		SWH 1-01	34
35	LOBBY VESTABULE, LOBBY LGTNG		20	1	1	20		SWH 1-02	36
37	LOBBY LGTNG		20	1	1	20		C55a Window Shades	38
39	LOBBY OFFICES LGTNG		20	1	1	20		Window Shades West	40
41	LOBBY WAITING AREA LGTNG		20	1	1	20		Window Shades West	42
43	LOBBY RESTROOM LGT		20	1	1	20		Window Shades East	44
45	INTERSTITIAL MECH RM LGT		20	1	1	20		Window Shades East	46
47	LOBBY CORRIDOR LGTNG		20	1	1	20		Window Shades East	48
49	LACTATION RM		20	1	1	20		Window Shades East	50
51	CLEARSTORY/SPLINE WALL WASH LIGHTING		20	1	1	20		Window Shades East	52
53	MECH INTERSTITIAL RECPT		20	1	1	20		Window Shades East	54
55	SPARE		20	1	1	20		Window Shades East	56
57	SPARE		20	1	1	20		Window Shades J01	58
59	SPARE		20	1	1	20		SPARE	60
61					1	20		SPARE	62
63	SMP 1A		20	3	1	20		SPARE	64
65					1	20		TUNNEL RCPTS	66
67					1	20		TUNNEL LIGHTING	68
69	SMP 1B		20	3	1	20		LOBBY SOFFIT	70
71					1	20		LOBBY SOFFIT	72

**GENERAL NOTES:**  
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

**NOTES:**  
 1.  
 2.  
 3.  
 4.

**NAME: HNSM2.2**  
 ENCLOSURE: NEMA 1 MOUNTING: SURFACE LOCATION: MECHANICAL 188  
 SUPPLY FROM: HN2.1  
 VOLTAGE: 277/480 PHASE: 3 WIRE: 4  
 MIN. BUS RATING: MAIN SIZE: MAIN OPTIONS:

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1									2
3	AHU 46		90	3	3	70		AHU 47	4
5									6
7									8
9	SP 1-01		20	3	3	20		SP 1-02	10
11									12
13									14
15	HWPP 5-01		20	3	3	20		HWPP 5-03	16
17									18
19									20
21	HWPP 5-02		20	3	3	20		HRPP 5-04	22
23									24
25	SPACE		--	--	--	--	--	SPACE	26
27	SPACE		--	--	--	--	--	SPACE	28
29	SPACE		--	--	--	--	--	SPACE	30
31	SPACE		--	--	--	--	--	SPACE	32
33	SPACE		--	--	--	--	--	SPACE	34
35	SPACE		--	--	--	--	--	SPACE	36
37	SPACE		--	--	--	--	--	SPACE	38
39	SPACE		--	--	--	--	--	SPACE	40
41	SPACE		--	--	--	--	--	SPACE	42

**GENERAL NOTES:**  
 A. SEE RISER DIAGRAM FOR CALCULATED AVAILABLE FAULT CURRENT. PANELBOARD AND ASSOCIATED DEVICES WITHIN PANELBOARD ASSEMBLY SHALL HAVE A SHORT CIRCUIT CURRENT RATING HIGHER THAN THE CALCULATED VALUE SHOWN ON RISER DIAGRAM.

**NOTES:**  
 1.  
 2.  
 3.  
 4.

<b>CONSULTANTS</b> ARCHITECTURAL: B W B R STRUCTURAL: ERA MEP: DUNHAM CIVIL: EVS LANDSCAPE: CONFLUENCE		<b>ARCHITECT OF RECORD</b> A/E: Stone Group Architects 600 E 7th Street Sioux Falls, SD 57103 605-271-1144		STAMP 	Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs	Drawing Title: ELECTRICAL SCHEDULES Approved:	Phase: CONSTRUCTION DOCUMENTS	Project Title: NEW FRONT LOBBY AND PRIMARY CARE ADDITION Location: SIOUX FALLS, SOUTH DAKOTA Issue Date: 06/22/2022 Checked: CB Drawn: BZ	Project Number: VA #438-480 SGA #201909 Building Number: 5 Drawing Number: EE601
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