

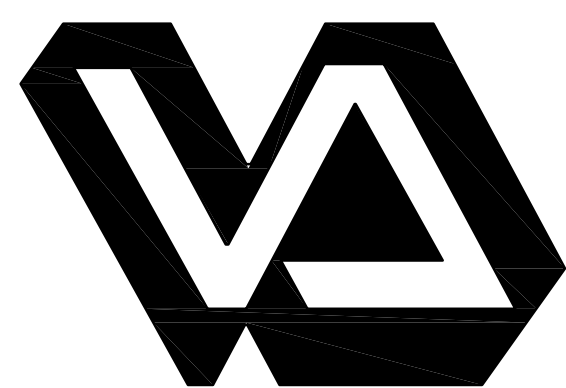
- GENERAL NOTES:
1. COORDINATE ALL CONDUIT RUNS AND ROUTING WITH THE VA AND OBTAIN VA APPROVAL PRIOR TO INSTALLATION.
 2. ALL CARD READERS TO BE INSTALLED FLUSH MOUNT. SURFACE MOUNTED OUTLET BOXES BEHIND CARD READERS NOT ALLOWED.
 3. KEEP ALL CONDUIT RUNS AS HIGH AS POSSIBLE AND IN NO CASE SHALL CONDUIT BE RUN LOWER THAN EXISTING UTILITIES.
 4. CUT AND PATCH WALL AND CEILING. PATCH TO MATCH ALL FINISHES.
 5. ALL WIRING TO BE INSTALLED IN CONDUIT, NO EXPOSED WIRING ALLOWED UNLESS NOTED OTHERWISE.

- PLAN NOTES:
1. PROVIDE CARD READER WITH KEYPAD TO REPLACE THE EXISTING CARD READER.
 2. PROVIDE CARD READER WITH KEYPAD, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 1/E4.
 3. PROVIDE CARD READER, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 4/E5.
 4. PROVIDE CARD READER, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 5/E5.
 5. PROVIDE CARD READER WITH KEYPAD, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 8/E4.
 6. PROVIDE NEW ACCESS CONTROL SYSTEM PANEL TO REPLACE EXISTING. PANEL TO BE STAR-AP-ISC, OR EQUAL, AND AS SPECIFIED IN SECTION 28 13 16. NEW PANEL TO ACCOMMODATE NEW CARD READERS SHOWN ON THIS PLAN AND EXISTING ACCESS CONTROL DEVICES CURRENTLY CONNECTED TO EXISTING CONTROL PANEL. PROVIDE CAPACITY FOR (4) ADDITIONAL CARD READERS, REQUEST TO EXIT SENSORS AND DOOR POSITION SWITCHES. PROVIDE DATA CONNECTIONS TO DATA RACK IN THE ROOM USING CATEGORY 6e CABLE PER SECTION 27 10 05. PROVIDE 120 VOLT POWER CONNECTION TO EXISTING TRANSFER SWITCH. SEE DETAIL 7/E4.
 7. TO EXISTING TRANSFER SWITCH #1.
 8. TO EXISTING TRANSFER SWITCH #5.
 9. PROVIDE TRANSFER SWITCH TO ALLOW CONNECTION TO NORMAL OR EMERGENCY EQUIPMENT BRANCH POWER. PROVIDE AND INSTALL NEW 2 POLE, 30A DOUBLE POLE TRANSFER SWITCH AND CONNECT ONE SIDE TO THE EMERGENCY CIRCUIT (EQUIPMENT BRANCH) AND OTHER SIDE TO NORMAL POWER CIRCUIT. SEE DETAIL 7/E4. PROVIDE NEW 20 AMP BREAKER(S) IN BOTH EQUIPMENT BRANCH AND NORMAL POWER PANELS NOTED.
 10. TO NEW TRANSFER SWITCH IN MECHANICAL ROOM 108.
 11. PROVIDE NEW ACCESS CONTROL SYSTEM PANEL TO REPLACE EXISTING. PANEL TO BE STAR-AP-ISC, OR EQUAL, AND AS SPECIFIED IN SECTION 28 13 16. NEW PANEL TO ACCOMMODATE EXISTING ACCESS CONTROL DEVICES CURRENTLY CONNECTED TO EXISTING CONTROL PANEL. PROVIDE CAPACITY FOR (4) ADDITIONAL CARD READERS, REQUEST TO EXIT SENSORS AND DOOR POSITION SWITCHES. RECONNECT TO EXISTING TRANSFER SWITCH #5.
 12. PROVIDE CARD READER WITH KEYPAD, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 6/E5.
 13. TO EXISTING TRANSFER SWITCH #4, SEE SHEET E2.
 14. PROVIDE CARD READER, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 7/E5.
 15. PROVIDE CARD READER WITH KEYPAD, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 8/E5.
 16. PROVIDE CARD READER WITH KEYPAD, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 2/E5.

ELECTRICAL SYMBOLS LEGEND

| SYMBOLS | DESCRIPTION |
|---------|--|
| | DASHED LINES INDICATE EXISTING FIXTURES, DEVICES, OR EQUIPMENT |
| | CARD READER |
| | ACCESS CONTROL CABINET |
| | JUNCTION BOX |
| | CONDUIT CONCEALED IN WALL OR CEILING, QUANTITY OF CONDUCTORS NOT SHOWN, PROVIDE AS REQUIRED FOR DEVICE/CIRCUIT NUMBERS SHOWN. |
| | HOME RUN TO PANELBOARD, QUANTITY OF CONDUCTORS REQUIRED NOT INDICATED, PROVIDE QUANTITY AS REQUIRED FOR CIRCUIT NUMBERS SHOWN. SWITCHING ARRANGEMENT, OR NUMBER OF HOME RUNS SHOWN. #10 INDICATES WIRE SIZE, NO NUMBERS INDICATES #12, 3/4 INCH CONDUIT MINIMUM. |
| | NOTE IDENTIFICATION |

1
E1
BASEMENT REMODELING PLAN - ELECTRICAL
0' 8' 16' 32'



Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
MBN ENGINEERING, Electrical Engineers



Drawing Title
BASEMENT REMODELING PLAN -
ELECTRICAL

VA Project No.
437-12-105

Building No.
1, 9, 46

Contract No.
VA263-P-1217
VA263-C-

AutoCAD File Name
11-176 ELDWG

Project Title
VA MEDICAL CENTER
REPLACE PHYSICAL ACCESS
SECURITY SYSTEM

Designed By
MB

Checked By
MB

Drawn By
TP

Location
VA MEDICAL CENTER
FARGO, ND

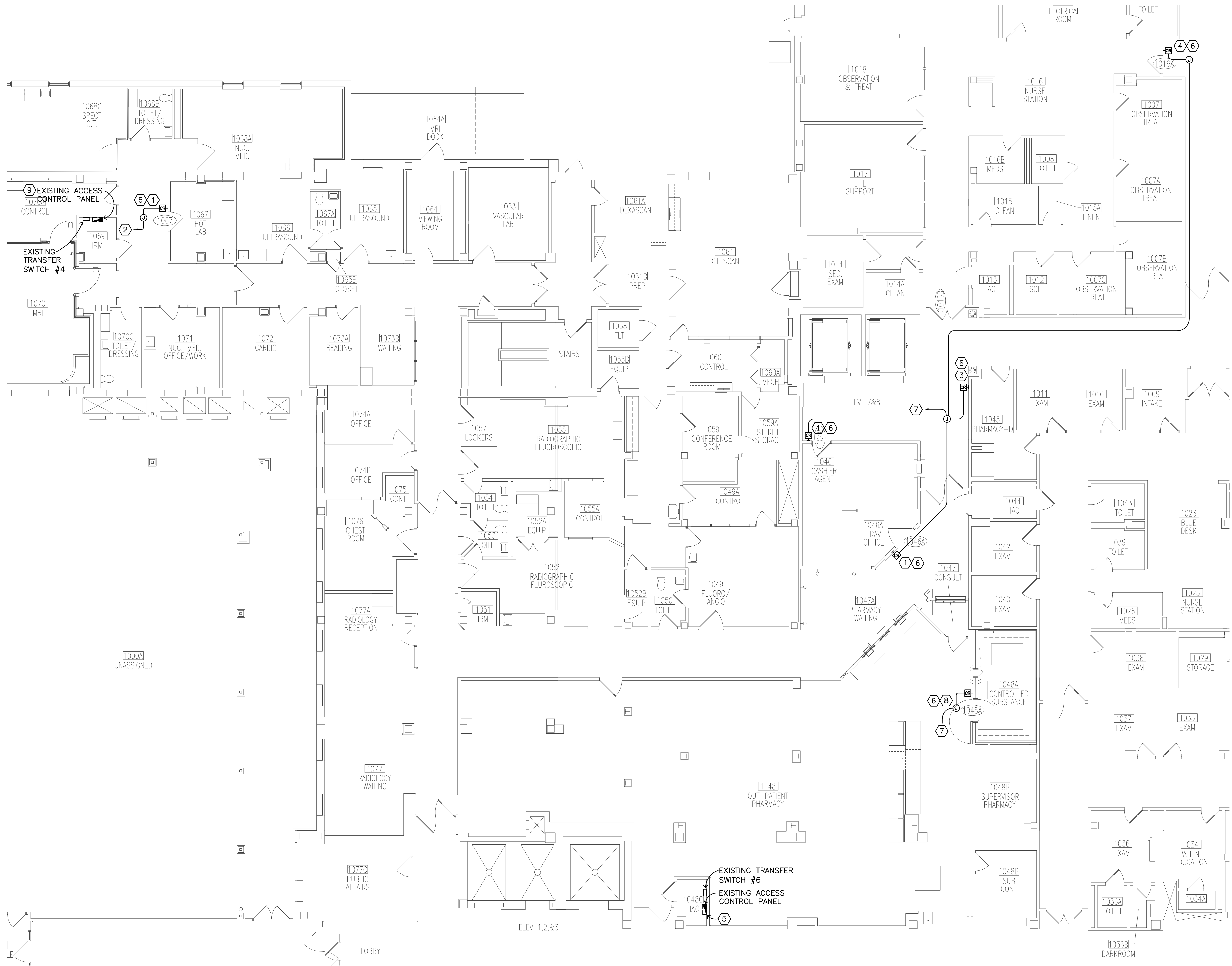
Date
MAY 4, 2012

Scale
AS SHOWN

Drawing No.
E1

Dwg. 5 of 9

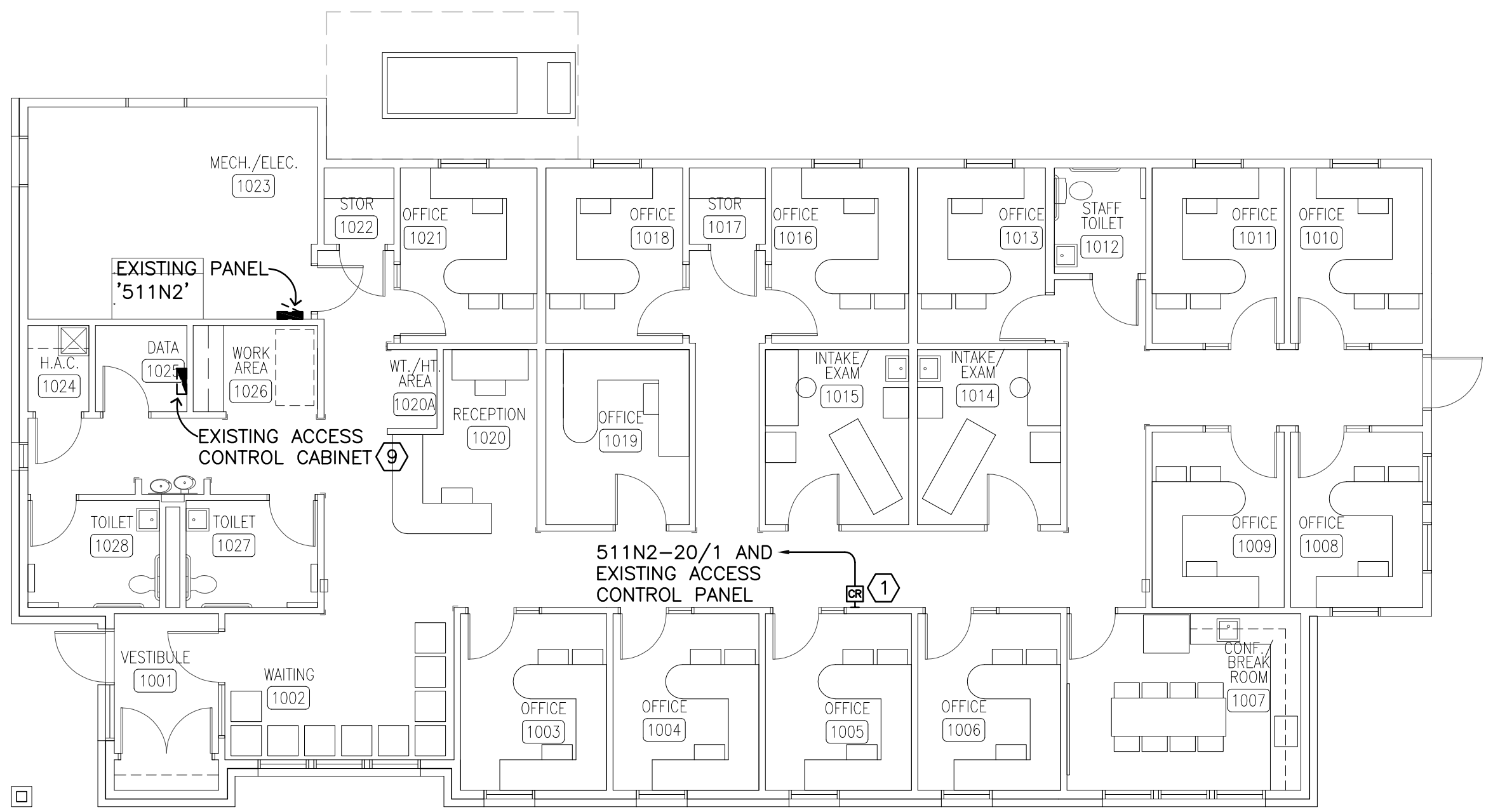
Department of
Veterans Affairs



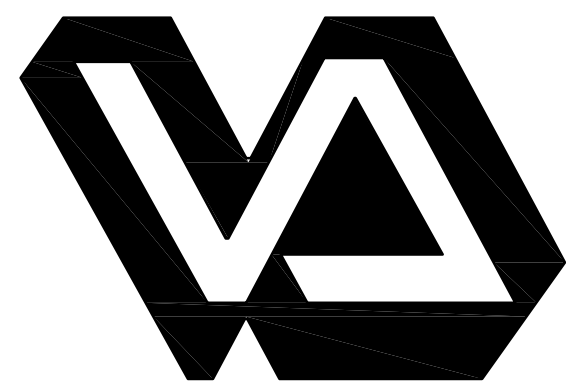
1 E2 FIRST FLOOR REMODELING PLAN BUILDING 9 AND 46 - ELECTRICAL
ALTERNATE #2

- GENERAL NOTES:
- COORDINATE ALL CONDUIT RUNS AND ROUTING WITH THE VA AND OBTAIN VA APPROVAL PRIOR TO INSTALLATION.
 - ALL CARD READERS TO BE INSTALLED FLUSH MOUNT. SURFACE MOUNTED OUTLET BOXES BEHIND CARD READERS NOT ALLOWED.
 - KEEP ALL CONDUIT RUNS AS HIGH AS POSSIBLE AND IN NO CASE SHALL CONDUIT BE RUN LOWER THAN EXISTING UTILITIES.
 - CUT AND PATCH WALL AND CEILING. PATCH TO MATCH ALL FINISHES.
 - ALL WIRING TO BE INSTALLED IN CONDUIT, NO EXPOSED WIRING ALLOWED.

- PLAN NOTES:
- PROVIDE CARD READER, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 4/E5.
 - TO EXISTING TRANSFER SWITCH #4 AND ACCESS CONTROL PANEL IN ROOM 1069.
 - PROVIDE NEW CARD READER WITH KEYPAD, DOOR POSITION SWITCHES AND REQUEST TO EXIT SENSOR. SEE DETAIL 9/E5.
 - PROVIDE NEW CARD READER, DOOR POSITION SWITCH AND REQUEST TO EXIT. SEE DETAIL 9/E4.
 - PROVIDE NEW ACCESS CONTROL SYSTEM PANEL TO REPLACE EXISTING. PANEL TO BE STAR-AP-ISC, OR EQUAL, AND AS SPECIFIED IN SECTION 28 13 16. NEW PANEL TO ACCOMMODATE EXISTING ACCESS CONTROL DEVICES CURRENTLY CONNECTED TO EXISTING CONTROL PANEL. PROVIDE CAPACITY FOR (4) ADDITIONAL CARD READERS, REQUEST TO EXIT AND DOOR POSITION SWITCHES.
 - DELETE UNDER ALTERNATE BID #2.
 - TO EXISTING TRANSFER SWITCH #6 AND ACCESS CONTROL PANEL IN ROOM 1048C.
 - PROVIDE CARD READER WITH KEYPAD, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 6/E5.
 - EXPAND EXISTING CONTROL PANEL AS REQUIRED TO ACCOMMODATE NEW CARD READERS SHOWN.



2 E2 FIRST FLOOR REMODELING PLAN BUILDING 51 - ELECTRICAL
ALTERNATE #2



Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102



IMAGE GROUP INC., Architecture & Interiors
MBN ENGINEERING, Electrical Engineers

IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560



Drawing Title
BUILDING 9 AND BUILDING 46 FIRST FLOOR
REMODELING PLAN - ELECTRICAL
BUILDING 51 FIRST FLOOR REMODELING
PLAN - ELECTRICAL

VA Project No.
437-12-105

Building No.
9, 46, 51

Contract No.
VA263-P-1217
VA263-C-

AutoCAD File Name
11-176 E2.DWG

Project Title
VA MEDICAL CENTER
REPLACE PHYSICAL ACCESS
SECURITY SYSTEM

Designed By
MB

Checked By
MB

Drawn By
TP

Location
VA MEDICAL CENTER
FARGO, ND

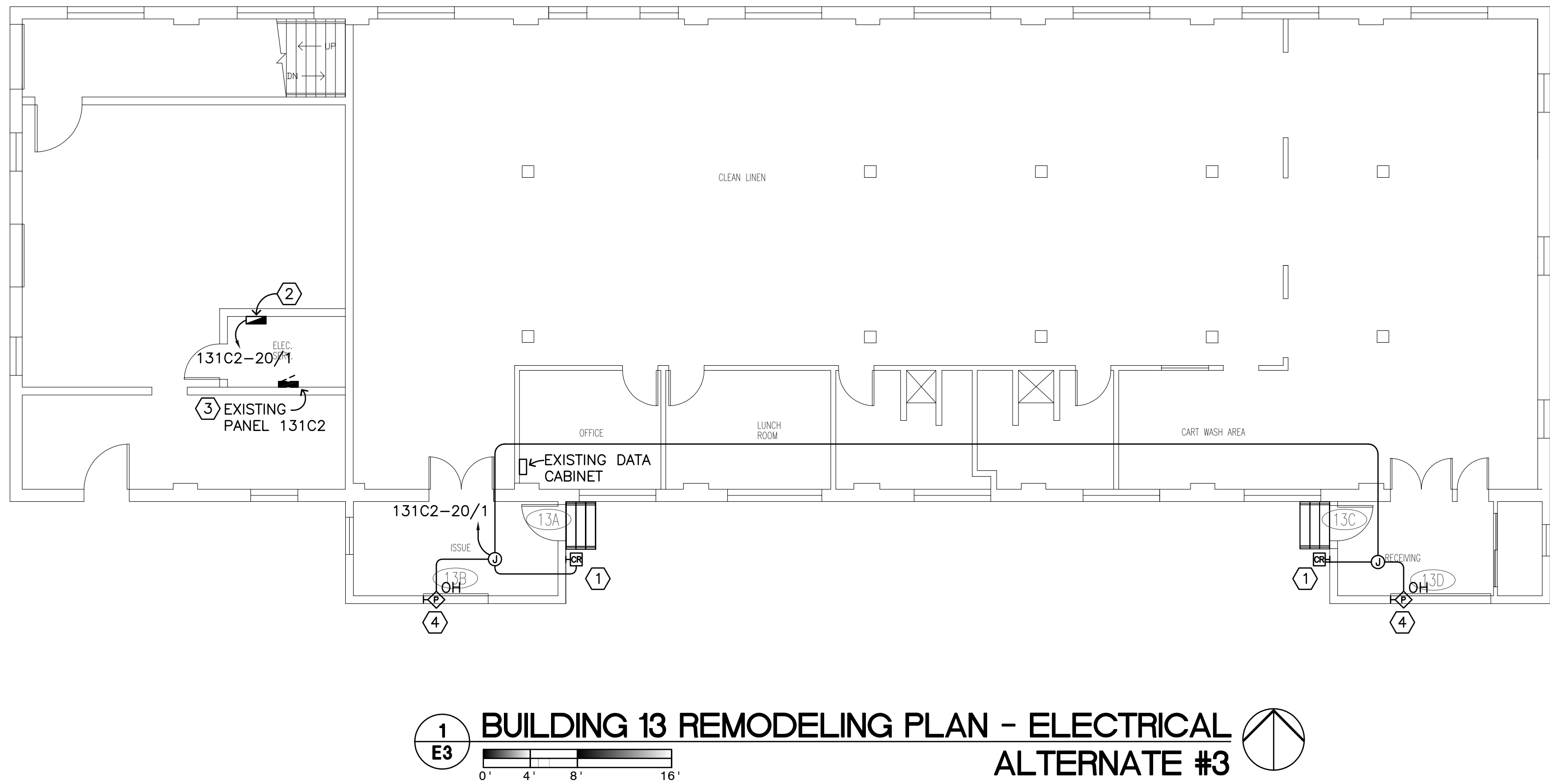
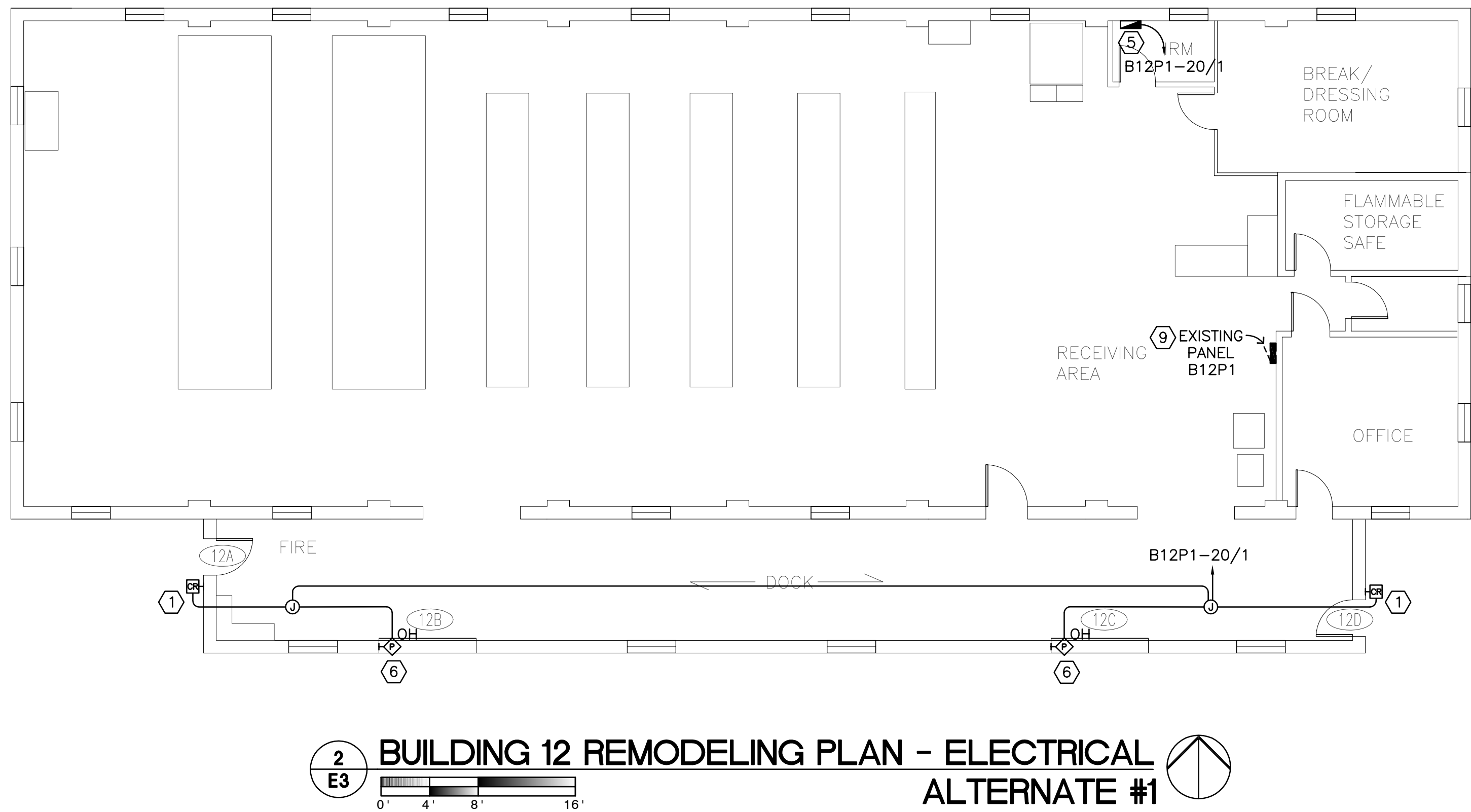
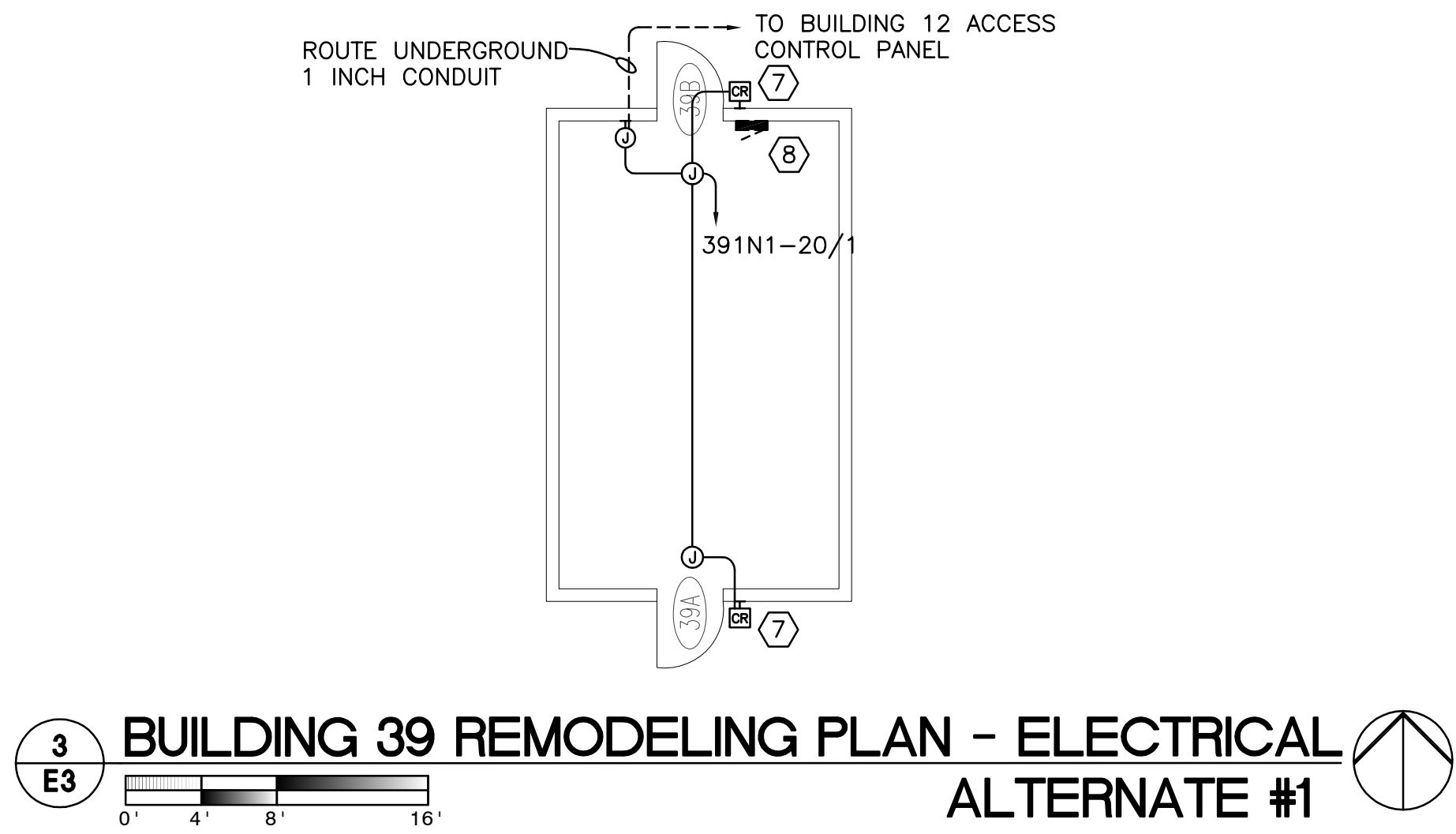
Date
MAY 4, 2012

Scale
AS SHOWN

Drawing No.
E2

Dwg. 6 of 9

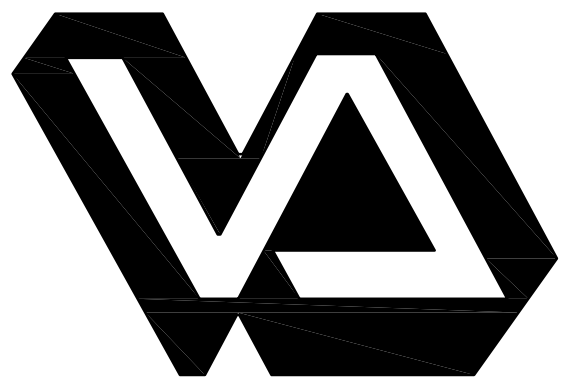





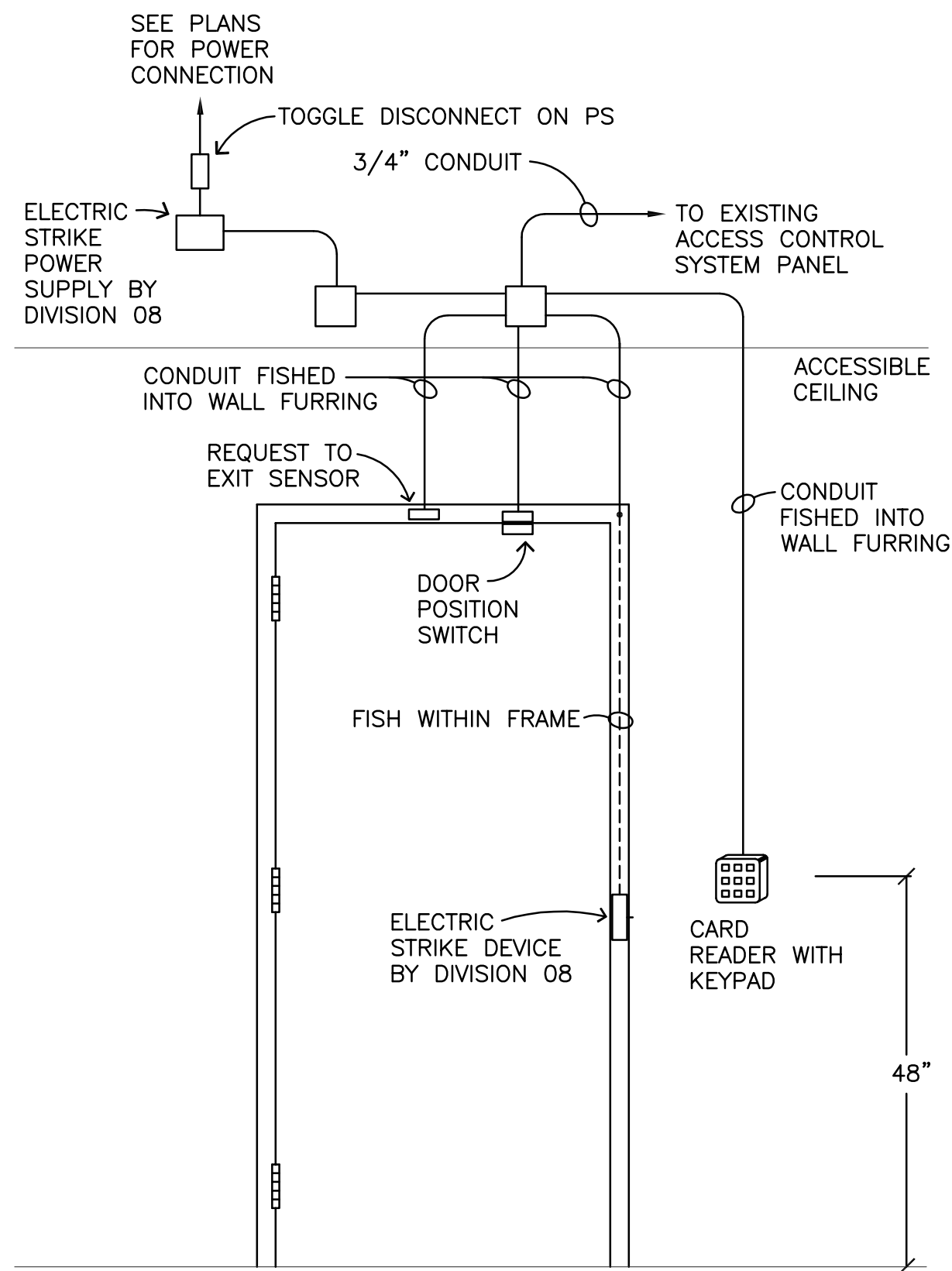


- GENERAL NOTES:**
- COORDINATE ALL CONDUIT RUNS AND ROUTING WITH THE VA AND OBTAIN VA APPROVAL PRIOR TO INSTALLATION.
 - ALL CARD READERS TO BE INSTALLED FLUSH MOUNT. SURFACE MOUNTED OUTLET BOXES BEHIND CARD READERS NOT ALLOWED.
 - KEEP ALL CONDUIT RUNS AS HIGH AS POSSIBLE AND IN NO CASE SHALL CONDUIT BE RUN LOWER THAN EXISTING UTILITIES.
 - PATCH WALL AND CEILING. PATCH TO MATCH ALL FINISHES.
 - ALL WIRING TO BE INSTALLED IN CONDUIT. NO EXPOSED WIRING ALLOWED UNLESS NOTED OTHERWISE.

- PLAN NOTES:**
- PROVIDE CARD READER, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 3/E5.
 - PROVIDE NEW ACCESS CONTROL SYSTEM PANEL TO ACCOMMODATE NEW CARD READERS SHOWN ON THIS PLAN AND AS SPECIFIED IN SECTION 28 13 16. VERIFY FINAL LOCATION WITH VA PROJECT ENGINEER. PROVIDE DATA CONNECTIONS TO DATA RACK IN OFFICE, AS SHOWN ON PLAN, USING CATEGORY 6e CABLE PER SECTION 27 10 05. PROVIDE CAPACITY FOR (4) ADDITIONAL CARD READERS, REQUEST TO EXIT SENSORS AND DOOR POSITION SWITCHES. VERIFY FINAL LOCATION WITH VA PROJECT ENGINEER. PROVIDE 120 VOLT POWER CONNECTION TO EXISTING PANEL 131C2.
 - PROVIDE (1) NEW 20/1 BREAKER TO POWER NEW DOOR HARDWARE. PROVIDE (1) NEW 20/1 BREAKER TO POWER NEW ACCESS CONTROL PANEL.
 - PROVIDE DOOR POSITION SWITCH AND CONNECTION TO NEW BUILDING 13 ACCESS CONTROL PANEL. SEE DETAIL 3/E4.
 - PROVIDE NEW ACCESS CONTROL SYSTEM PANEL TO ACCOMMODATE NEW CARD READERS SHOWN ON THIS PLAN AND AS SPECIFIED IN SECTION 28 13 16. PROVIDE CAPACITY FOR (4) ADDITIONAL CARD READERS, REQUEST TO EXIT SENSORS AND DOOR POSITION SWITCHES. VERIFY FINAL LOCATION WITH VA PROJECT ENGINEER. PROVIDE DATA CONNECTIONS TO DATA RACK IN THE ROOM USING CATEGORY 6e CABLE PER SECTION 27 10 05. PROVIDE 120 VOLT POWER CONNECTION TO EXISTING PANEL B12P1.
 - PROVIDE DOOR POSITION SWITCH AND CONNECTION TO NEW BUILDING 12 ACCESS CONTROL PANEL. SEE DETAIL 2/E4.
 - PROVIDE CARD READER, DOOR POSITION SWITCH AND REQUEST TO EXIT SENSOR. SEE DETAIL 5/E3. CORE DRILL THRU EXTERIOR FOR CARD READER. SEAL PENETRATIONS WITH SPECIFIED SEALANT. CONDUIT ALLOWED WITHIN BUILDING MAY BE EXPOSED.
 - PROVIDE (1) NEW 20/1 BREAKER IN EXISTING PANEL ON NORTH WALL OF BUILDING 39 TO POWER NEW DOOR HARDWARE SUPPLIER. PROVIDE LABEL FOR PANEL '391N1' PER VAMC LABELING GUIDELINES.
 - PROVIDE (1) NEW 20/1 BREAKER TO POWER NEW DOOR HARDWARE. PROVIDE (1) NEW 20/1 BREAKER TO POWER NEW ACCESS CONTROL PANEL.

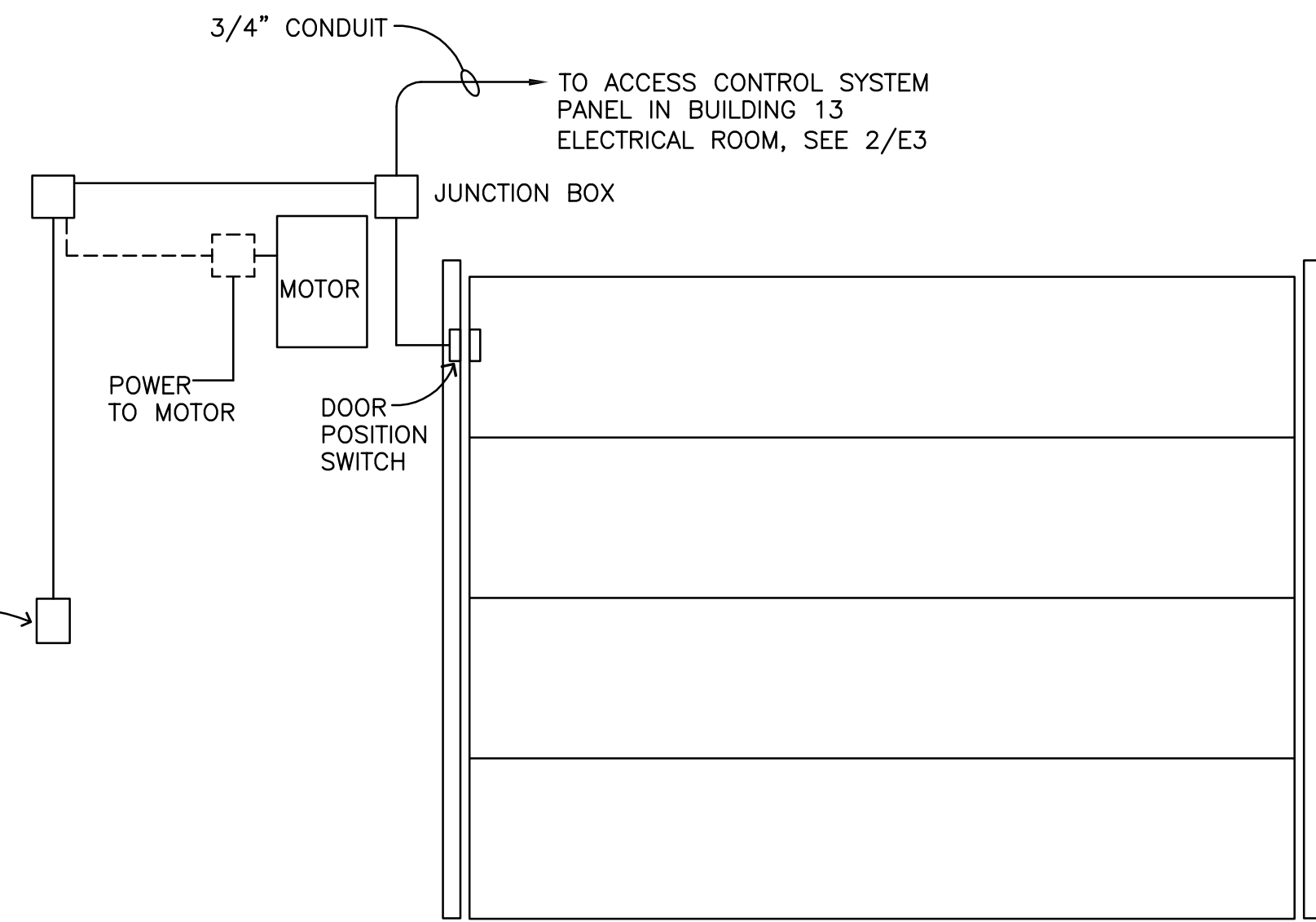
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|-----------|------|---|--|---|--|--|--|---|--|---|
| | |  <div>Dept. of Veterans Affairs Medical Center 2101 Elm Street North Fargo, ND 58102</div> |  <div>IMAGE GROUP INC., Architecture & Interiors MBN ENGINEERING, Electrical Engineers</div> <div>IMAGE GROUP INC. 403 CENTER AVENUE, SUITE 300 MOORHEAD, MN 56560</div> |  | | <div>Drawing Title BUILDINGS 12 AND 13 REMODELING PLAN- ELECTRICAL BUILDING 39 REMODELING PLAN- ELECTRICAL</div> <div>VA Project No. 437-12-105</div> <div>Building No. 12, 13</div> | <div>Contract No. VA263-P-1217 VA263-C-</div> <div>AutoCAD File Name 11-176 E3.DWG</div> | <div>Designed By MB</div> <div>Checked By MB</div> <div>Drawn By TP</div> <div>Location VA MEDICAL CENTER FARGO, ND</div> | <div>Date MAY 4, 2012</div> <div>Scale AS SHOWN</div> <div>Drawing No. E3</div> <div>Dwg. 7 of 9</div> |  |
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| Revisions | Date | | | | | | | | | |



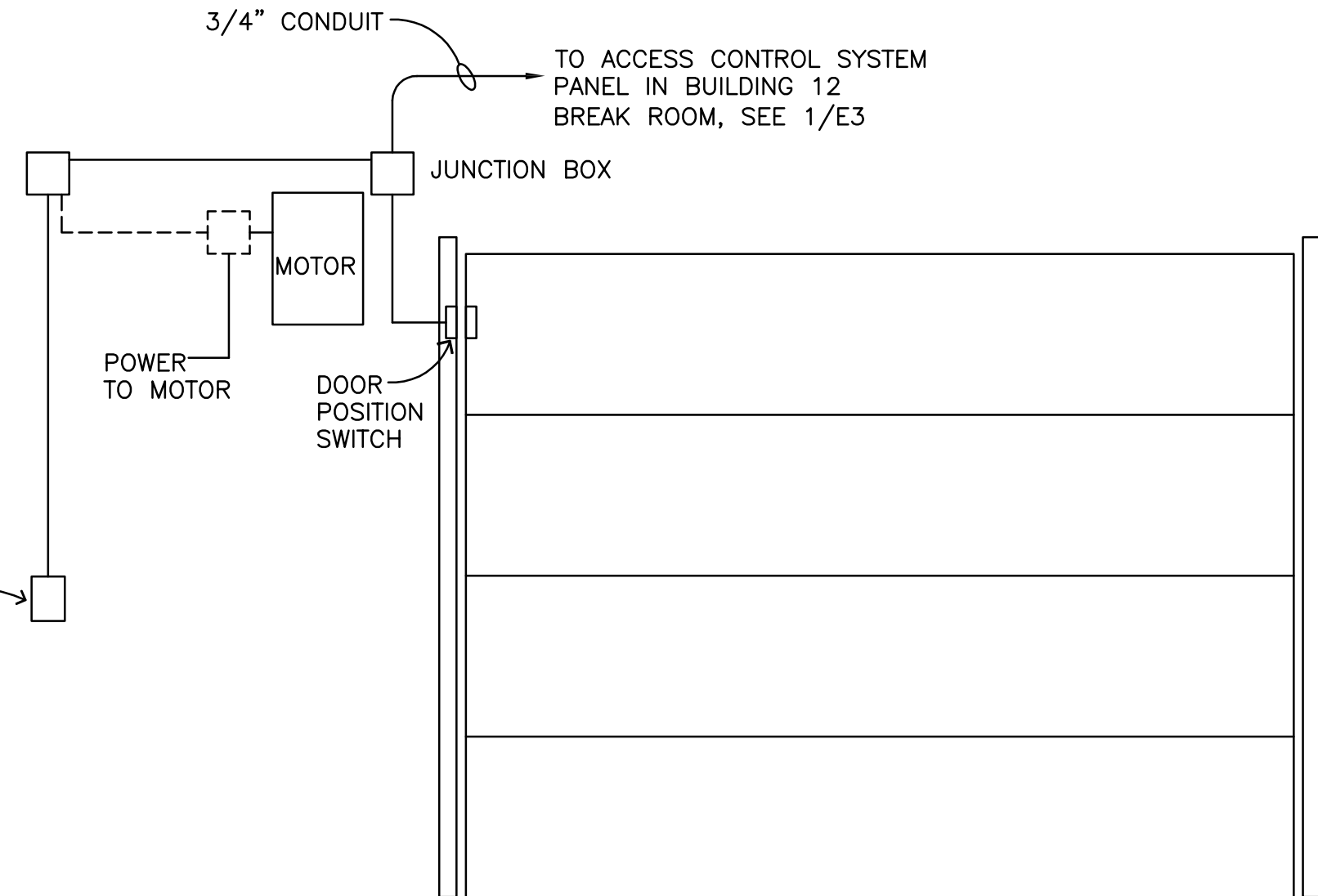
- NOTES:
1. CONDUIT SIZES SHOWN ARE MINIMUM SIZES. SIZE PER NEC REQUIREMENTS.
 2. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
 3. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
 4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.
 5. CUT AND PATCH OR FISH EXISTING WALL FURRING AS REQUIRED FOR A FLUSH INSTALLATION.

1
E4 **TYPICAL SINGLE DOOR CARD ACCESS WIRING**
NO SCALE



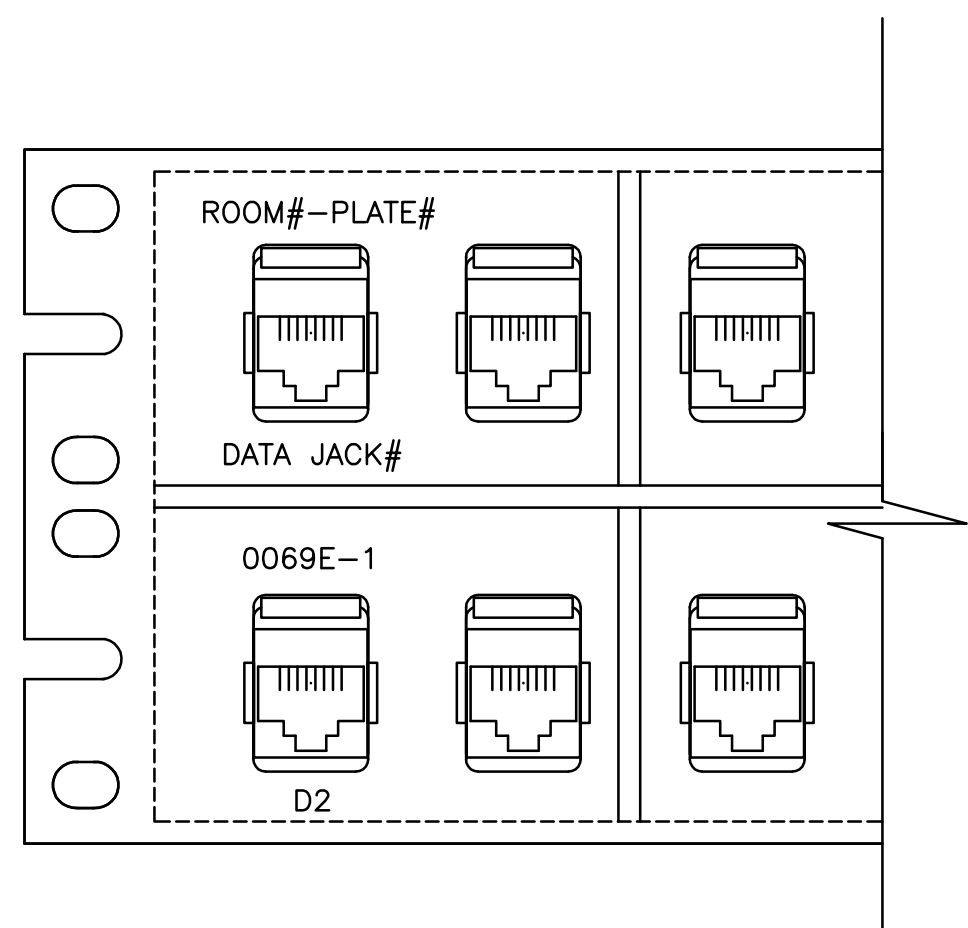
- NOTES:
1. REUSE STEEL FRAME, DOOR AND HARDWARE TO THE EXTENT POSSIBLE. PROVIDE NEW COMPONENTS WHERE REQUIRED OR NECESSARY FOR A COMPLETE INSTALLATION.
 2. CONDUIT SIZES SHOWN ARE MINIMUM SIZES. SIZE PER NEC REQUIREMENTS.
 3. PATCH TO MATCH ALL DAMAGED FINISHES.
 4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISIONS 8.
 5. CONDUIT MAY BE EXPOSED.

2
E4 **OVERHEAD DOORS ACCESS CONTROL DETAIL**
NOT TO SCALE

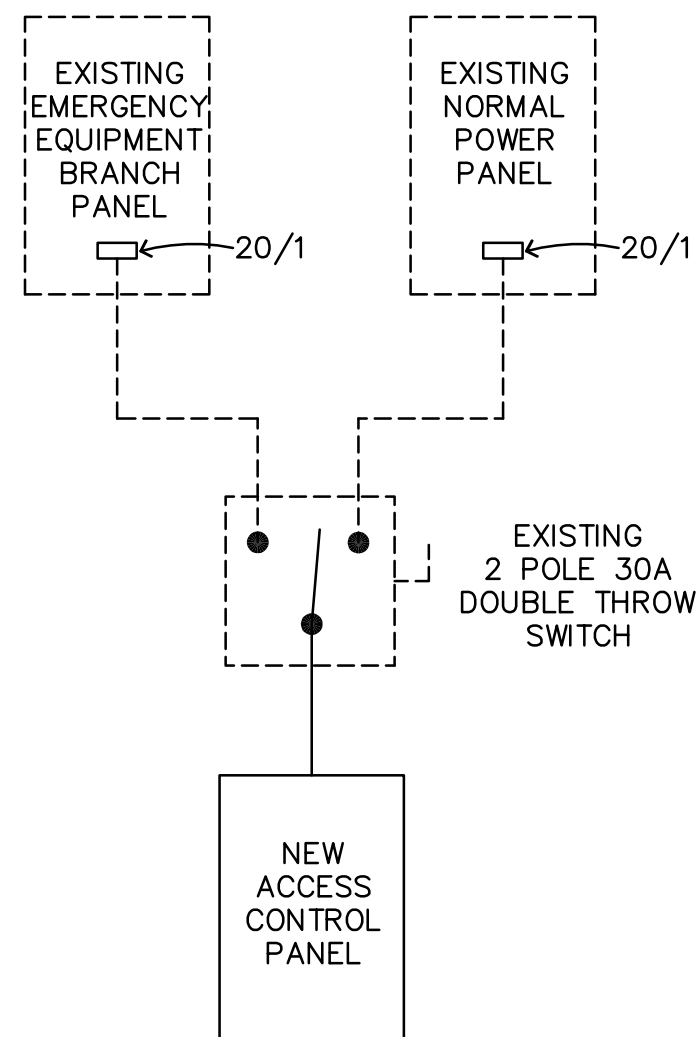


- NOTES:
1. REUSE STEEL FRAME, DOOR AND HARDWARE TO THE EXTENT POSSIBLE. PROVIDE NEW COMPONENTS WHERE REQUIRED OR NECESSARY FOR A COMPLETE INSTALLATION.
 2. CONDUIT SIZES SHOWN ARE MINIMUM SIZES. SIZE PER NEC REQUIREMENTS.
 3. PATCH TO MATCH ALL DAMAGED FINISHES.
 4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISIONS 8.
 5. CONDUIT MAY BE EXPOSED.

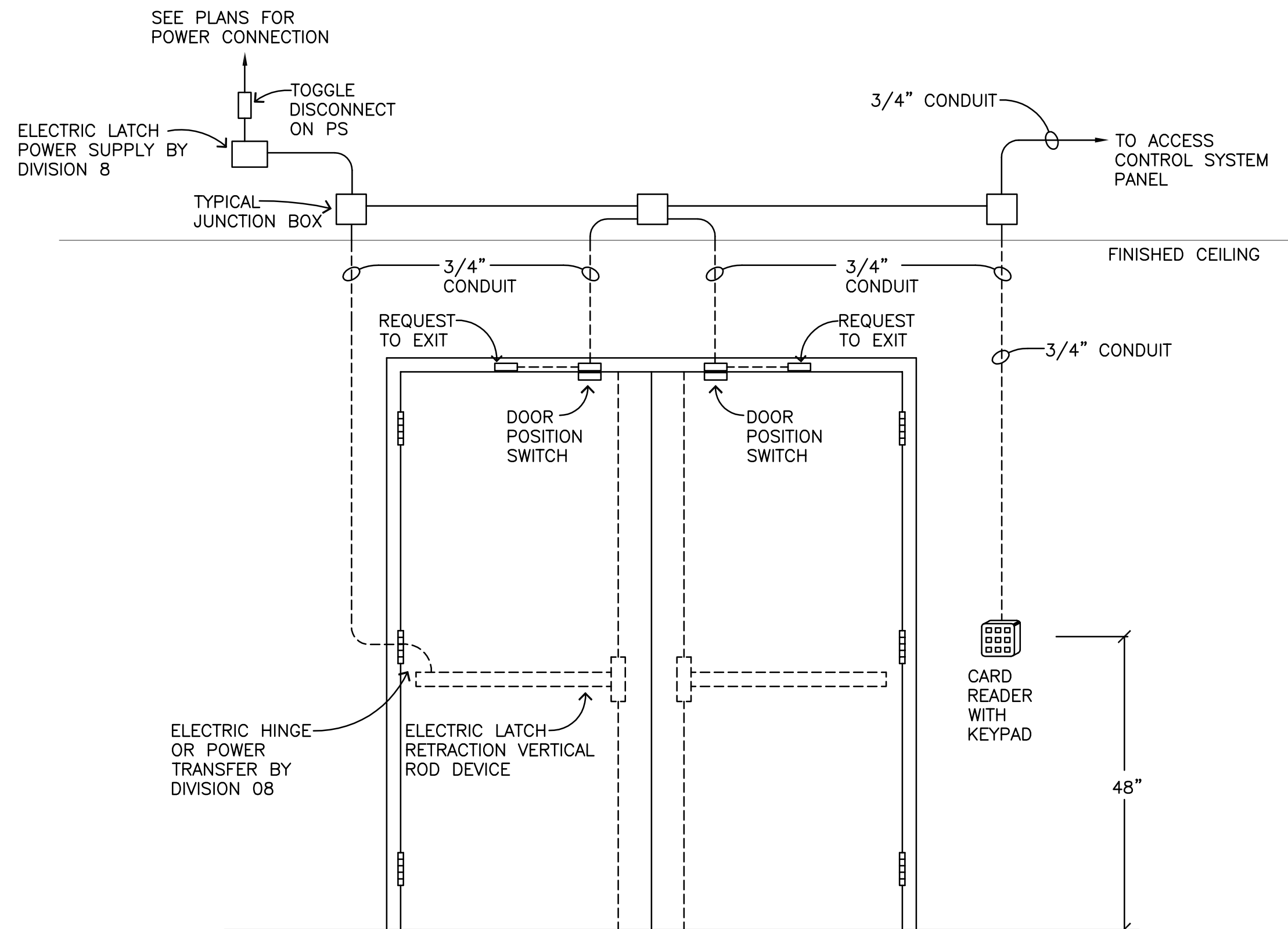
3
E4 **OVERHEAD DOORS ACCESS CONTROL DETAIL**
NOT TO SCALE



4
E4 **PATCH PANEL SAMPLE LABELS**
NO SCALE

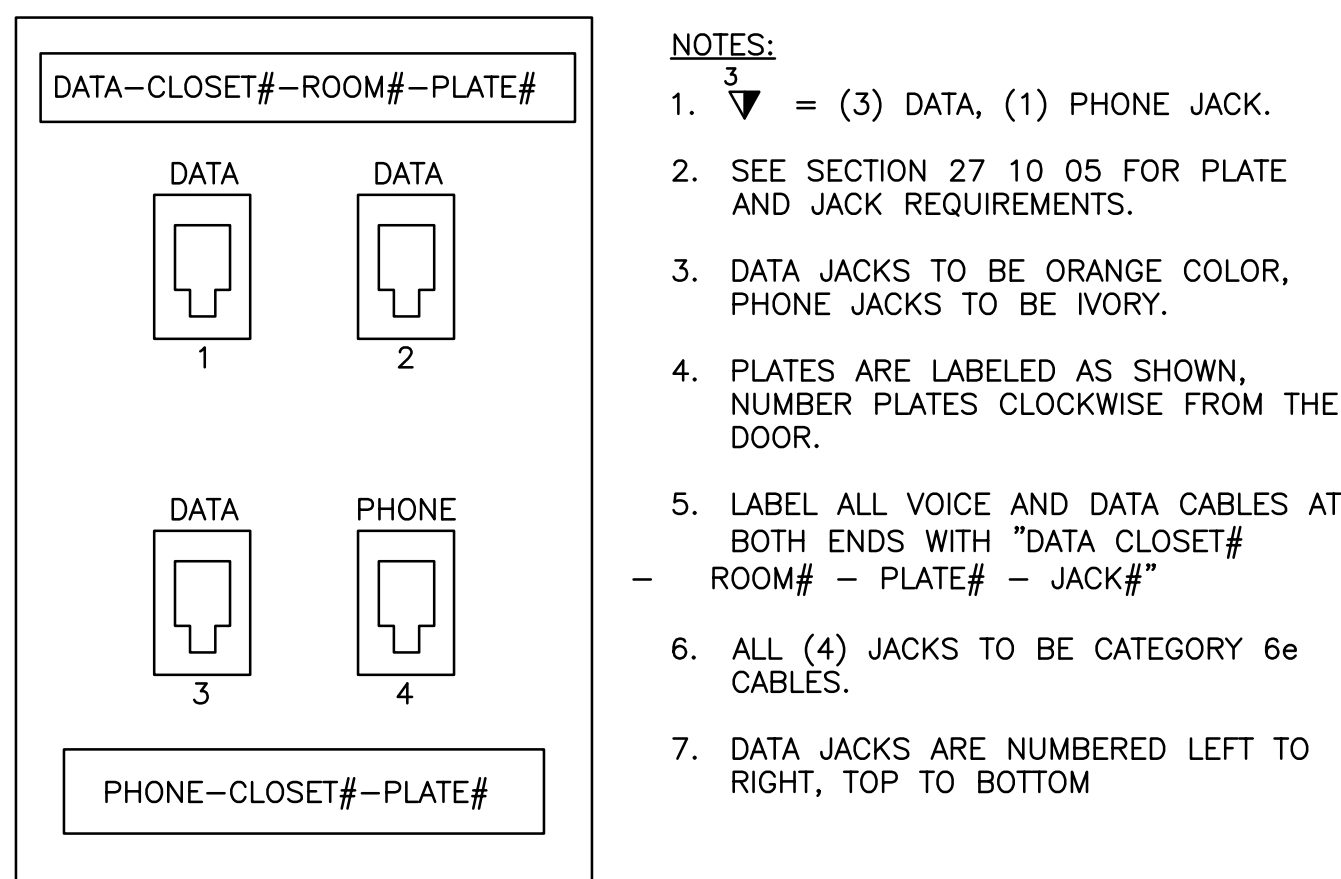


7
E4 **PARTIAL ONE-LINE DIAGRAM**
NO SCALE

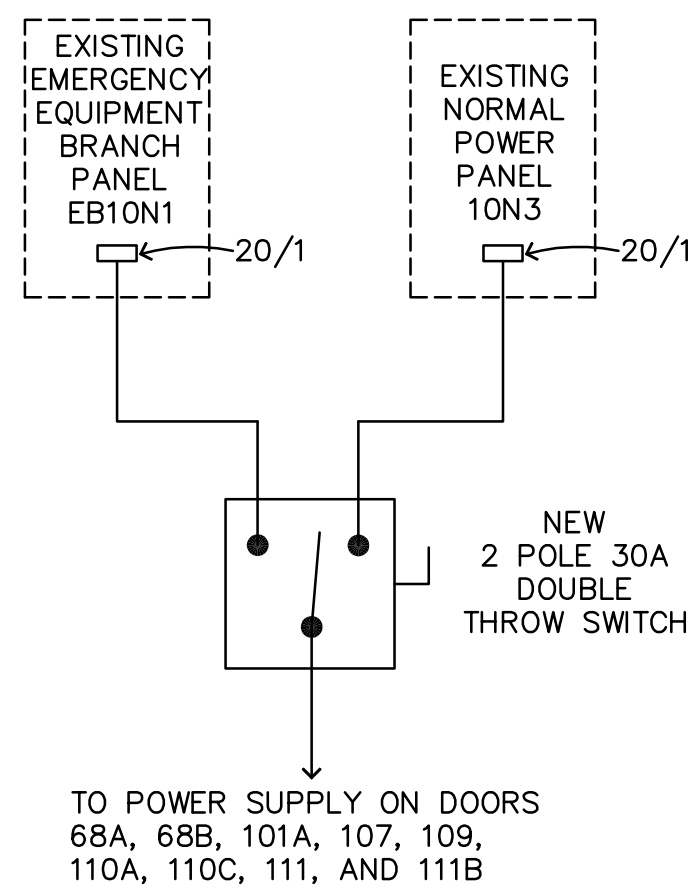


- NOTES:
1. ALL CONDUIT TO BE CONCEALED. FISH CONDUIT DOWN EXISTING WALL AS REQUIRED.
 2. IF ANY DEMOLITION IS NECESSARY TO ROUTE CONDUIT WITHIN WALL, PATCH AND RESTORE WALL TO MATCH EXISTING CONDITIONS.
 3. THIS DETAIL IS A TYPICAL INSTALLATION. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 08 AND ACCESS CONTROL SYSTEM SUPPLIER.
 4. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
 5. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
 6. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.

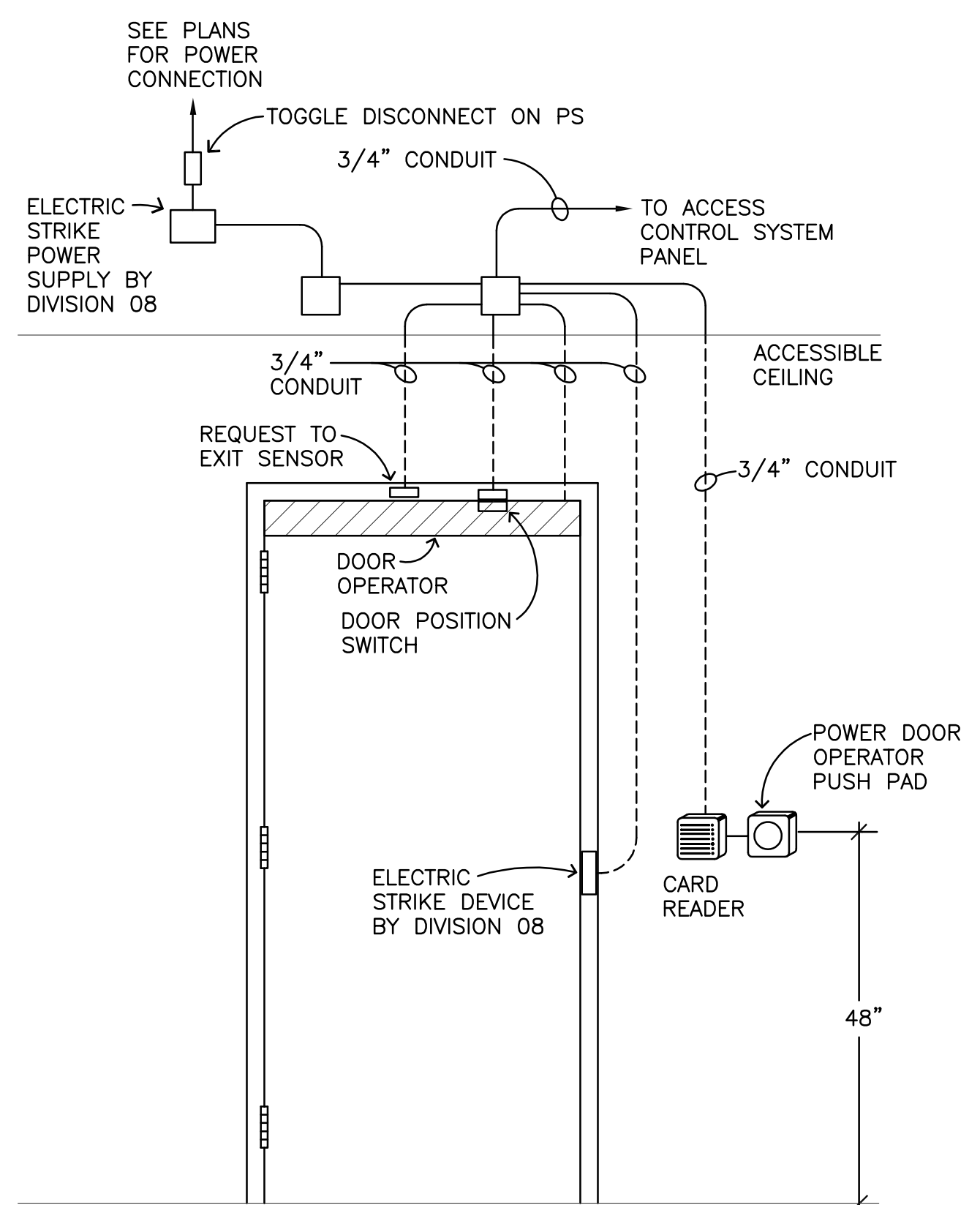
8
E4 **TYPICAL DOUBLE DOOR CARD ACCESS WIRING**
NO SCALE



5
E4 **TYPICAL COMMUNICATIONS DETAIL**
NO SCALE

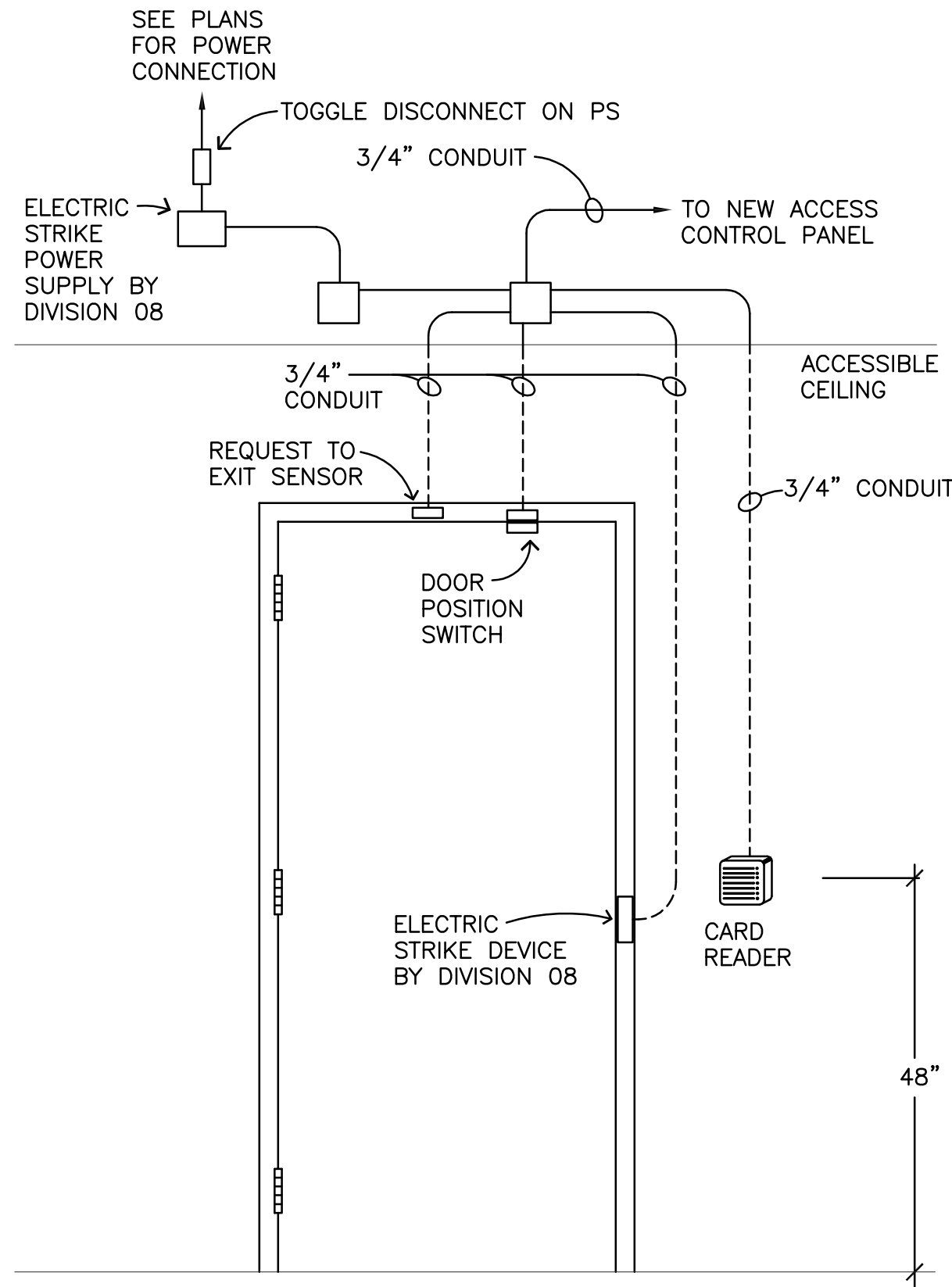


6
E4 **PARTIAL ONE-LINE DIAGRAM**
NO SCALE



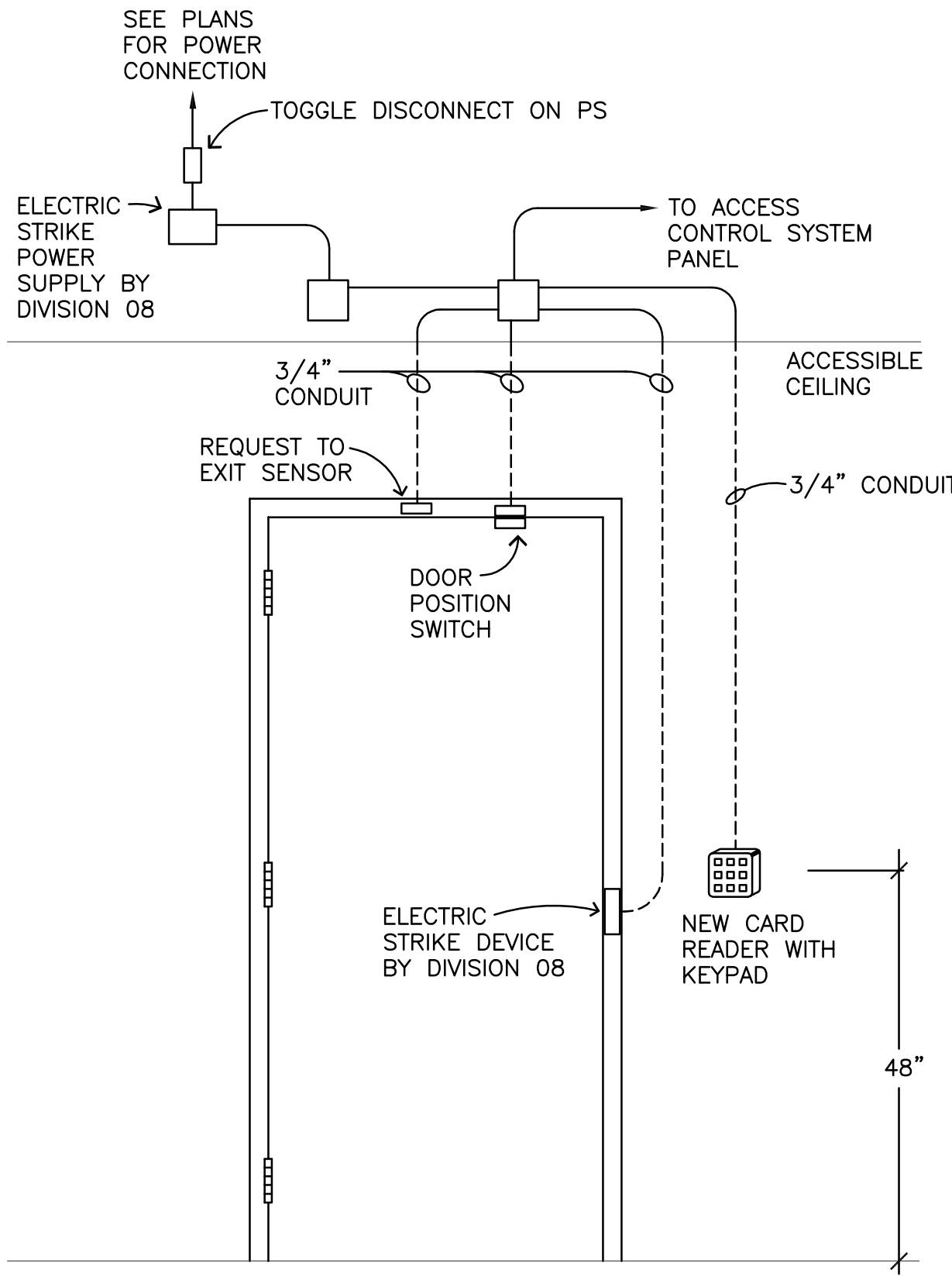
- NOTES:
1. CONDUIT SIZES SHOWN ARE MINIMUM SIZES. SIZE PER NEC REQUIREMENTS.
 2. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
 3. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
 4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.
 5. ALL CONDUIT TO BE CONCEALED. FISH CONDUIT INTO EXISTING WALLS AS REQUIRED.
 6. IF ANY DEMOLITION IS NECESSARY TO ROUTE CONDUIT WITHIN WALL, PATCH AND RESTORE WALL TO MATCH EXISTING CONDITIONS.

9
E4 **TYPICAL SINGLE DOOR CARD ACCESS WIRING**
NO SCALE



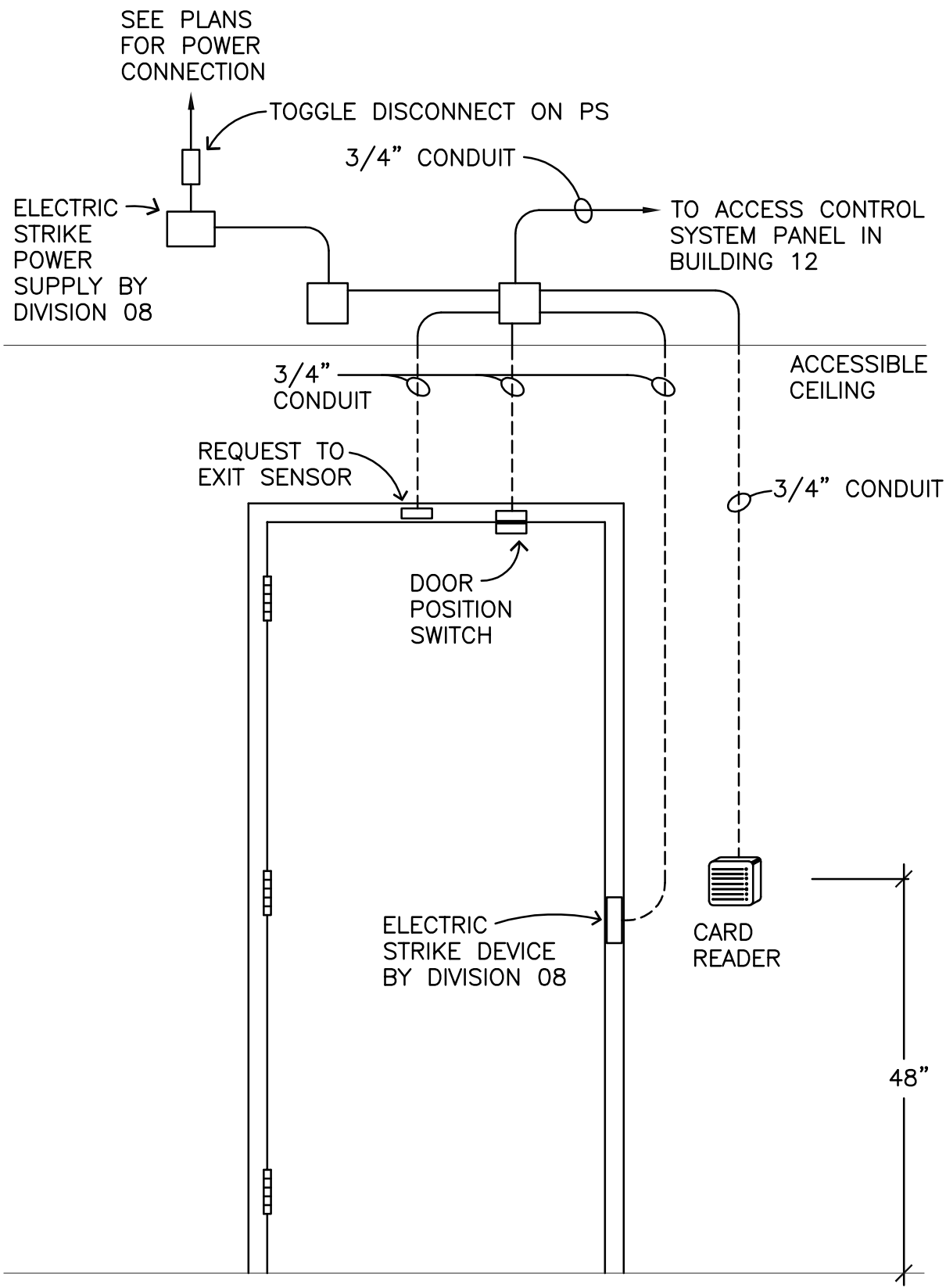
NOTES:

1. CONDUIT SIZES SHOWN ARE MINIMUM SIZES. SIZE PER NEC REQUIREMENTS.
2. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
3. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.
5. ALL CONDUIT SHALL BE CONCEALED. FISH CONDUIT INTO EXISTING WALLS AS REQUIRED.



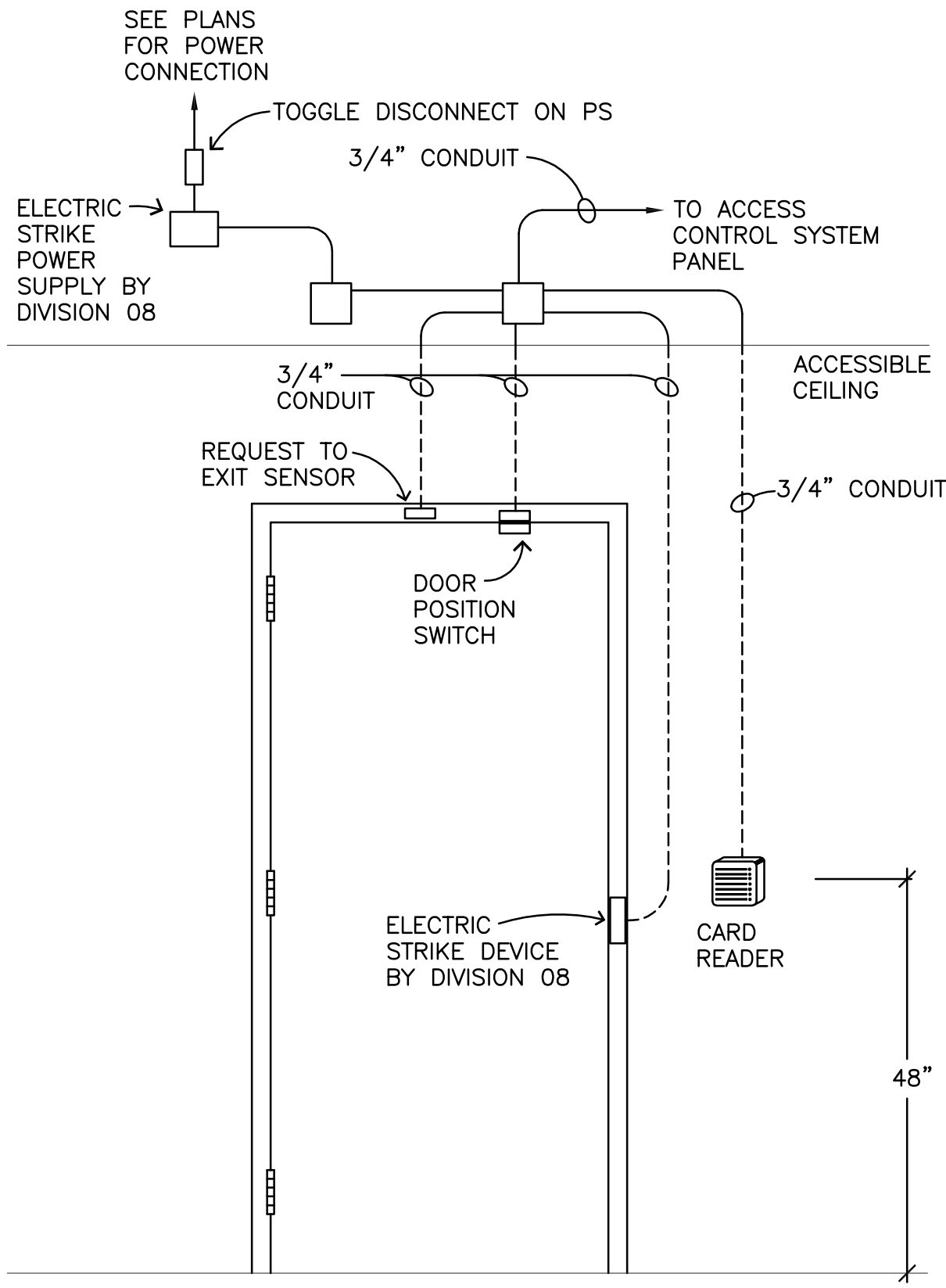
NOTES:

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3. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.
5. ALL CONDUIT SHALL BE CONCEALED. FISH CONDUIT INTO EXISTING WALLS AS REQUIRED.



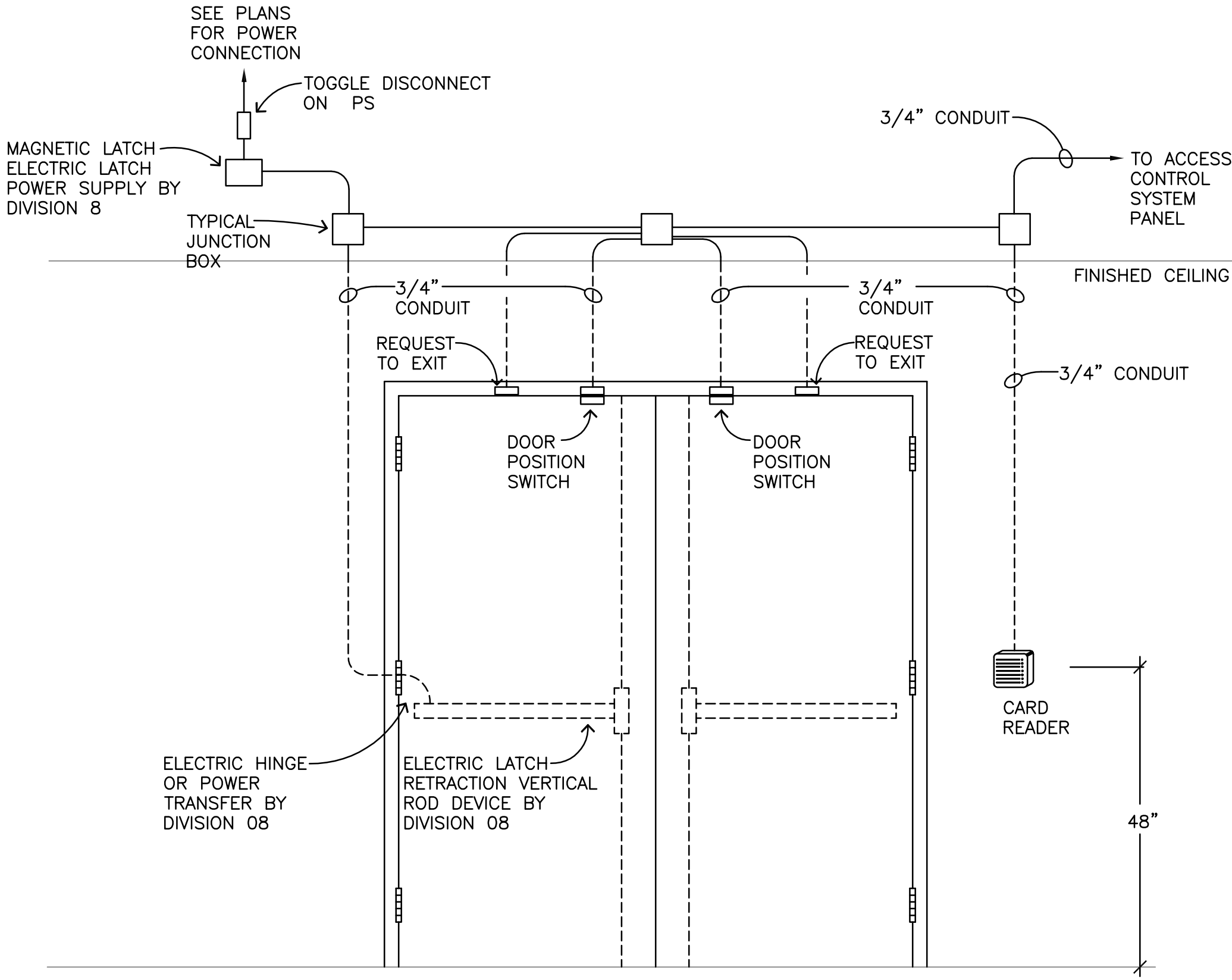
NOTES:

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3. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.
5. CONDUIT MAY BE EXPOSED IN UNFINISHED SPACES OF BUILDINGS 39, 12 AND 13. CONDUIT IN FINISHED SPACES OF BUILDINGS 12 AND 13 MUST BE CONCEALED. FISH CONDUIT INTO EXISTING WALL SPACES.
6. ALL CONDUIT TO BE ROUTED INSIDE OF THE BUILDING. NO EXTERIOR CONDUIT ALLOWED.



NOTES:

1. CONDUIT SIZES SHOWN ARE MINIMUM SIZES. SIZE PER NEC REQUIREMENTS.
2. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
3. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.
5. ALL CONDUIT TO BE CONCEALED. FISH CONDUIT INTO EXISTING WALLS AS REQUIRED.
6. IF ANY DEMOLITION IS NECESSARY TO ROUTE CONDUIT WITHIN WALL, PATCH AND RESTORE WALL TO MATCH EXISTING CONDITIONS.



NOTES:

1. ALL CONDUIT TO BE CONCEALED. FISH CONDUIT EXISTING WALLS AS REQUIRED.
2. IF ANY DEMOLITION IS NECESSARY TO ROUTE CONDUIT WITHIN WALL, PATCH AND RESTORE WALL TO MATCH EXISTING CONDITIONS.
3. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
4. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
5. THIS DETAIL IS A TYPICAL INSTALLATION. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 08 AND ACCESS CONTROL SYSTEM SUPPLIER.

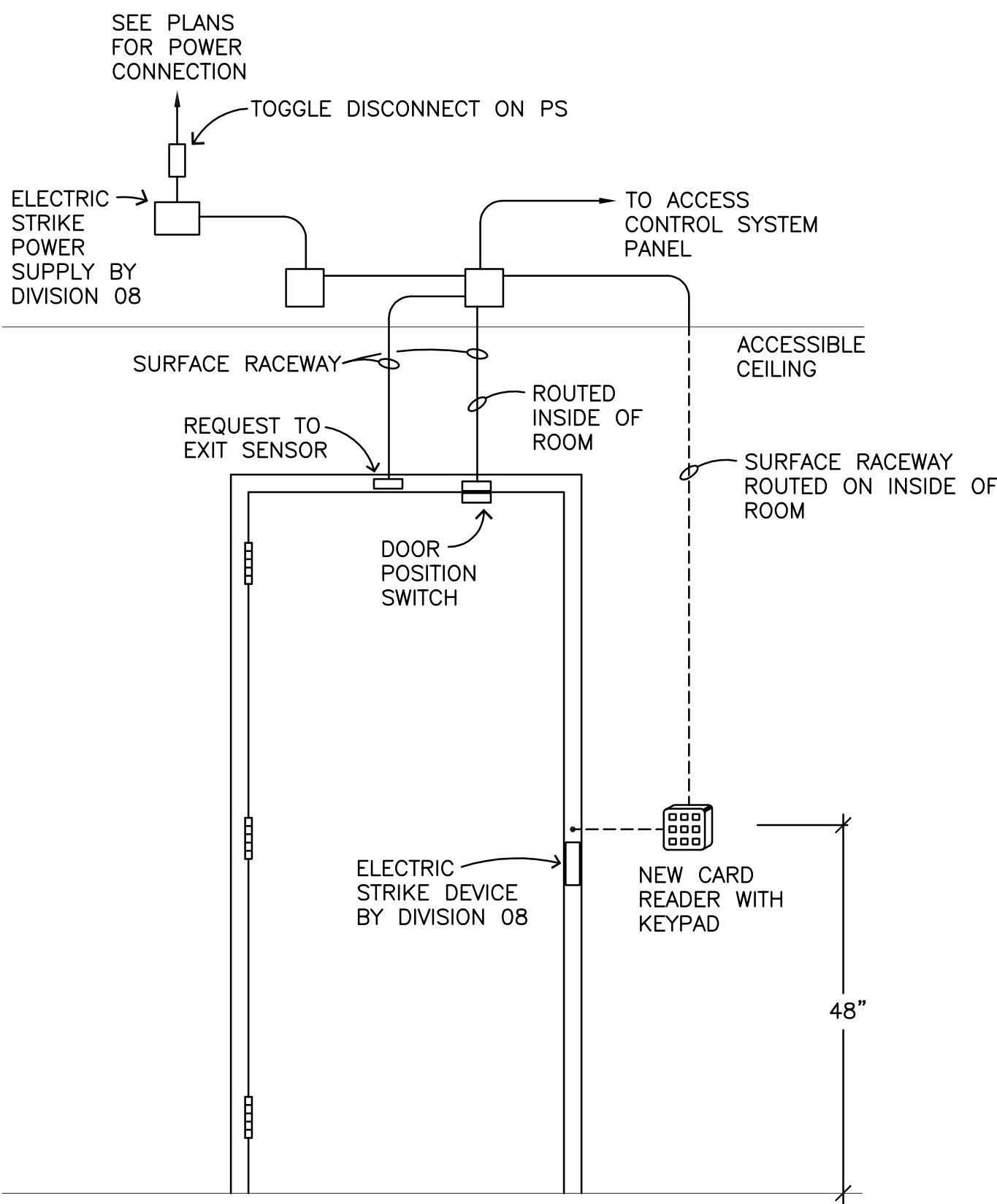
1
E5
TYPICAL SINGLE
DOOR CARD ACCESS WIRING
NO SCALE

2
E5
TYPICAL SINGLE
DOOR CARD ACCESS WIRING
NO SCALE

3
E5
TYPICAL SINGLE
DOOR CARD ACCESS WIRING
NO SCALE

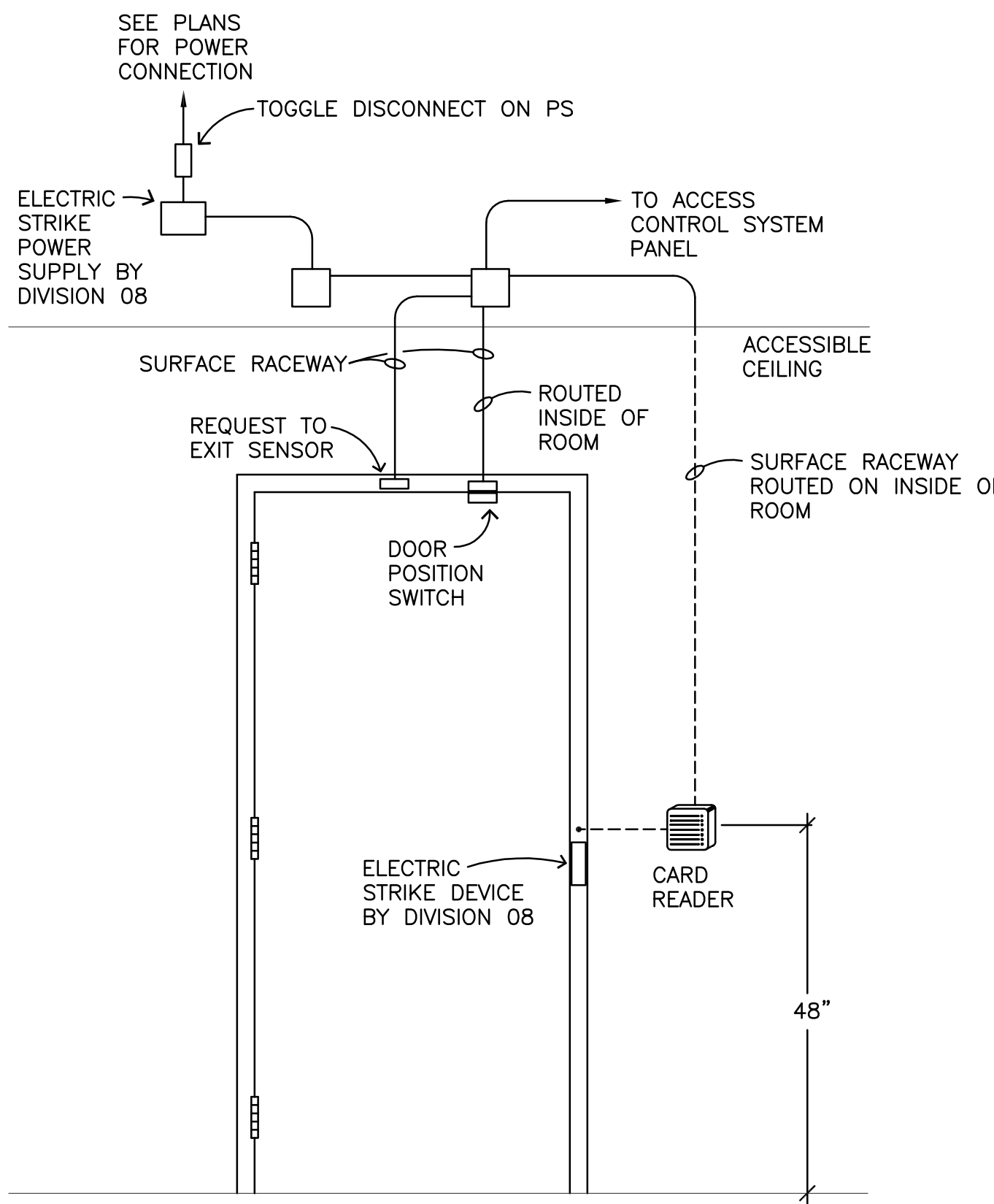
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E5
TYPICAL SINGLE
DOOR CARD ACCESS WIRING
NO SCALE

5
E5
TYPICAL DOUBLE
DOOR CARD ACCESS WIRING
NO SCALE



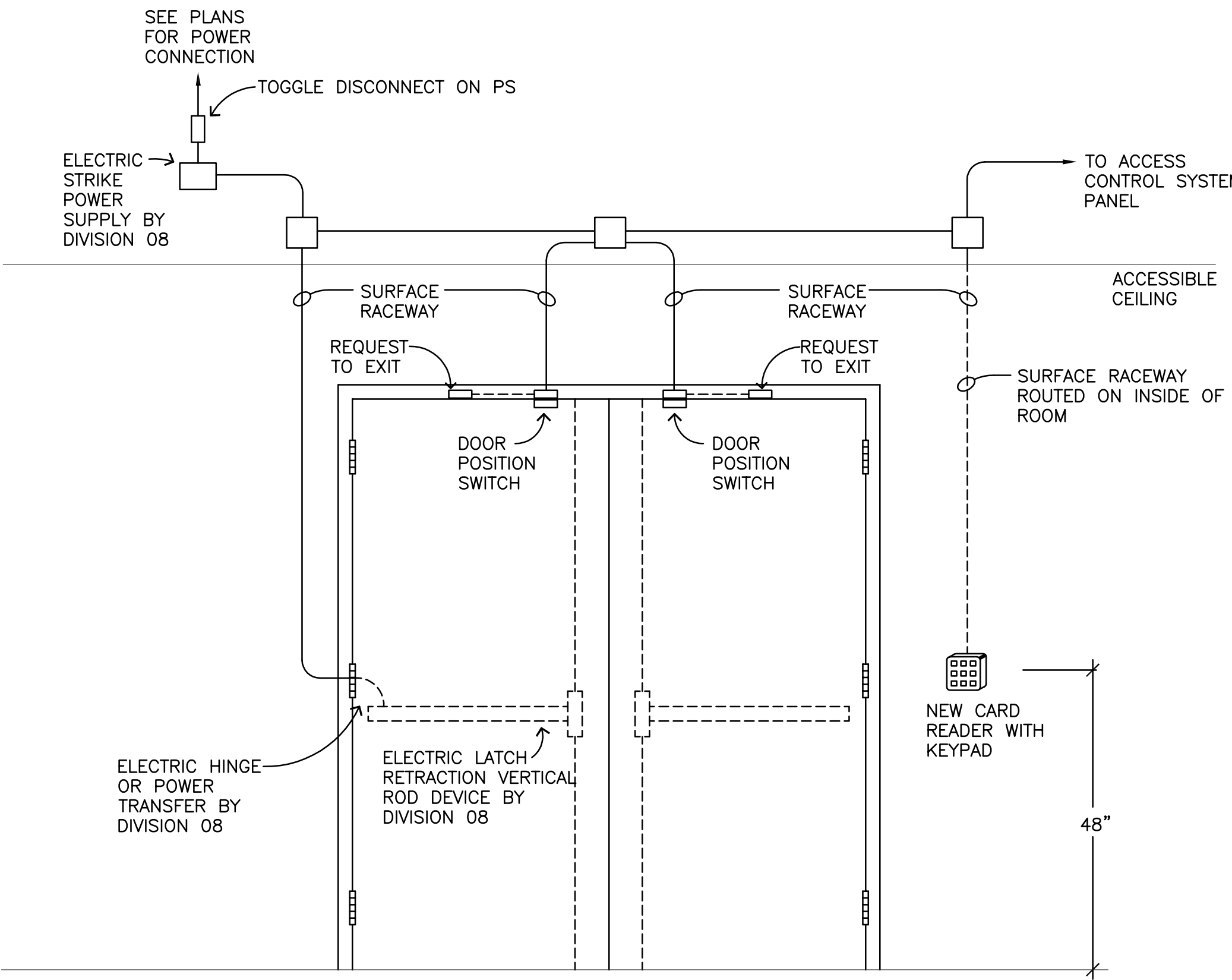
NOTES:

1. CONDUIT SIZES SHOWN ARE MINIMUM SIZES. SIZE PER NEC REQUIREMENTS.
2. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
3. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.
5. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS. PROVIDE SURFACE RACEWAY PAINTED TO MATCH ADJACENT SURFACES WHERE NOTED.
6. INSTALL REQUEST TO EXIT SENSOR ON CEILING ABOVE DOOR FRAME POSSIBLE.



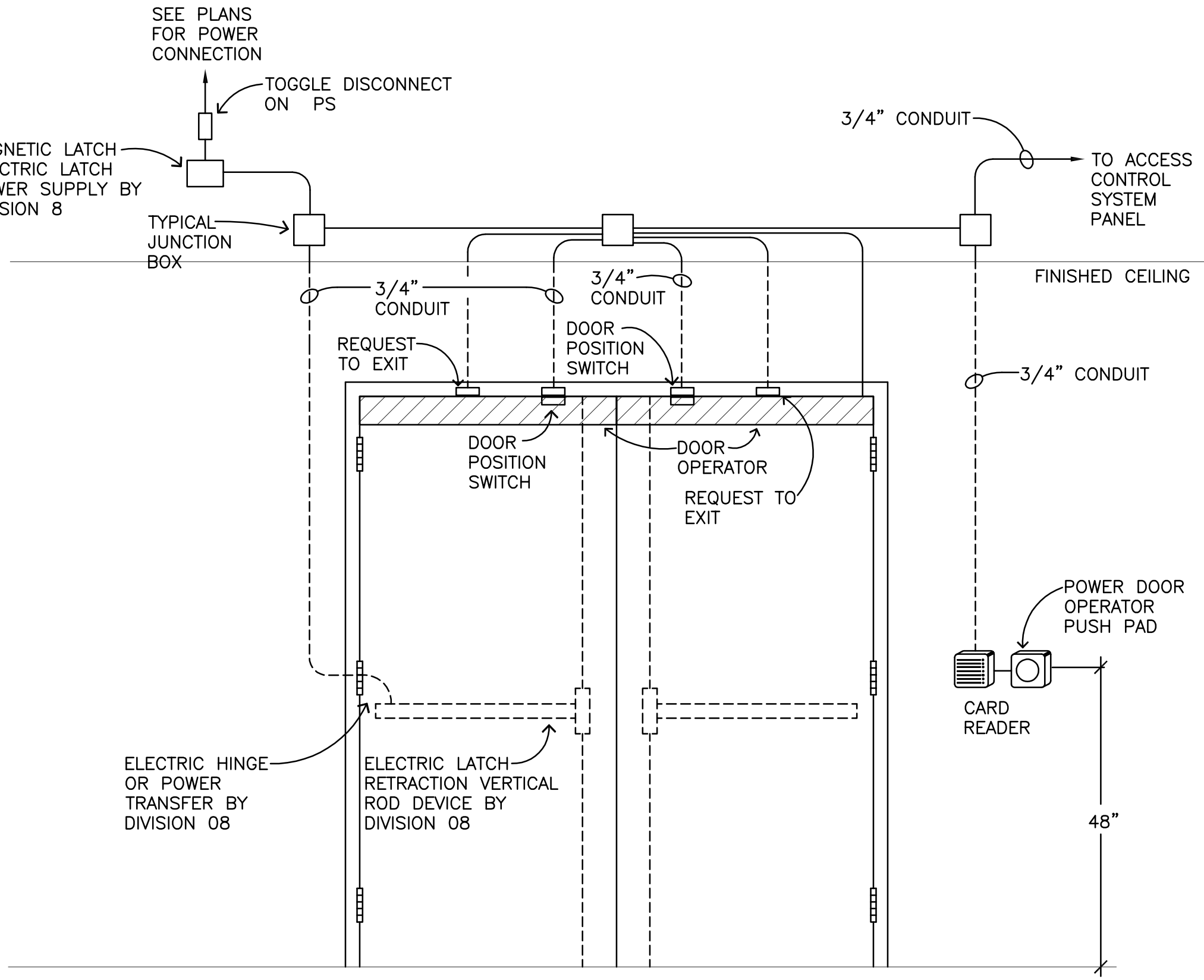
NOTES:

1. CONDUIT SIZES SHOWN ARE MINIMUM SIZES. SIZE PER NEC REQUIREMENTS.
2. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
3. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
4. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8 AND ACCESS CONTROL SUPPLIER.
5. ALL CONDUIT SHALL BE CONCEALED ABOVE CEILINGS. PROVIDE SURFACE RACEWAY PAINTED TO MATCH ADJACENT SURFACES WHERE NOTED.
6. INSTALL REQUEST TO EXIT SENSOR ON CEILING ABOVE DOOR FRAME POSSIBLE.



NOTES:

1. ALL CONDUIT TO BE CONCEALED. FISH CONDUIT EXISTING WALLS AS REQUIRED.
2. IF ANY DEMOLITION IS NECESSARY TO ROUTE CONDUIT WITHIN WALL, PATCH AND RESTORE WALL TO MATCH EXISTING CONDITIONS.
3. REQUEST TO EXIT SENSORS SHALL BE MOUNTED ON THE DOOR FRAME OR WALL JUST ABOVE THE DOOR FRAME.
4. DOOR POSITION SENSORS SHALL BE MOUNTED WITHIN THE DOOR FRAME AND DOOR.
5. THIS DETAIL IS A TYPICAL INSTALLATION. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 08 AND ACCESS CONTROL SYSTEM SUPPLIER.



NOTES:

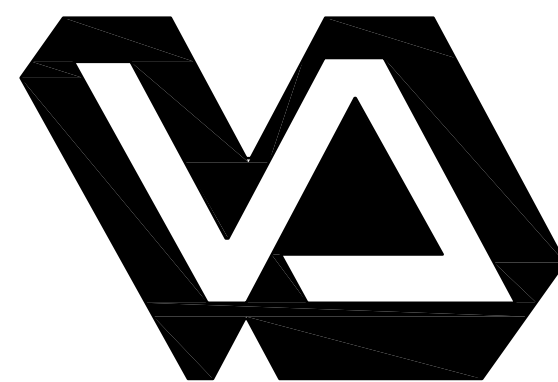
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6
E5
TYPICAL SINGLE
DOOR CARD ACCESS WIRING
NO SCALE

7
E5
TYPICAL SINGLE
DOOR CARD ACCESS WIRING
NO SCALE

8
E5
TYPICAL DOUBLE
DOOR CARD ACCESS WIRING
NO SCALE

9
E5
TYPICAL DOUBLE
DOOR CARD ACCESS WIRING
NO SCALE



Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102



IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560

IMAGE GROUP INC., Architecture & Interiors
MBN ENGINEERING, Electrical Engineers



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| Drawing Title ELECTRICAL DETAILS | | Project Title VA MEDICAL CENTER REPLACE PHYSICAL ACCESS SECURITY SYSTEM | | Date MAY 4, 2012 |
| VA Project No. 437-12-105 | Contract No. VA263-P-1217 VA263-C- | Designed By MB | Checked By MB | Scale AS SHOWN |
| Building No. | AutoCAD File Name 11-176 E5DWG | Drawn By TP | Drawing No. E5 | Dwg. 9 of 9 |
| Location VA MEDICAL CENTER FARGO, ND | | Department of Veterans Affairs | | |