

**1100 Eastway Dr Charlotte, NC  
28205**

LS3P

LS3P



LE3JF PROJECT. 9Z01\*Z0ZJ3J0

[illegible]

**G-000**

## FOR CONSTRUCTION



## 2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: **GARINGER HIGH SCHOOL - SECURITY GATE MODIFICATIONS**  
 Address: **1100 EASTWAY DR., CHARLOTTE, NC** Zip Code: **28205**  
 Owner / Authorized Agent: **GARY ADAMS** Phone #: **(800)343-5953** E-Mail: **GARYS.ADAMS@CMS.K12.NC.US**  
 Owned By: ☒ City ☐ Private ☐ State  
 Code Enforcement Jurisdiction: ☐ City ☒ County ☒ MECK ☒ State ☒ DOIDP

**CONTACT:**  
 DESIGNER FIRM NAME LICENSE# TELEPHONE# E-MAIL  
 Architectural **LSP** **DAVID BELLAMY** **9732** **7043717832** **davidbellamy@lsp.com**  
 Civil **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 Electrical **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 Fire Alarm **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 Plumbing **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 Mechanical **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 Sprinkler-Standard **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 Structural **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 Retaining Walls >5' High **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 Other **CMTA** **ZACH SCHNEIDER** **7043381292** **zschneider@cmta.com**  
 ("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

**2018 INTERNATIONAL BUILDING CODE:** ☐ New Building ☐ Addition ☐ 1st Time Interior Completion  
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements  
☐ Phased Construction-Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

**2018 EXISTING INTERNATIONAL BUILDING CODE:** ☐ N/A ☐ Prescriptive ☐ Repair ☐ Chapter 14  
☒ Alteration Level I ☐ Alteration Level II ☐ Alteration Level III  
☐ Historic Property ☐ Change of Use

**CONSTRUCTED:** (date) **1957-2022** **CURRENT OCCUPANCY (S) (Ch. 3):** **E**  
**RENOVATED:** (date) **2022** **PROPOSED OCCUPANCY (S) (Ch. 3):** **E**

**OCCUPANCY CATEGORY** (Table 1604.5):  
 Current: ☐ N/A ☐ I ☐ II ☐ III ☐ IV  
 Proposed: ☐ N/A ☐ I ☐ II ☐ III ☐ IV

**BASIC BUILDING DATA**  
**Construction Type:** ☐ IA ☐ I-A ☐ II-A ☐ IV ☐ V-A ☐  
☐ I-B ☐ I-B ☐ II-B ☐ V-B  
**Sprinklers:** ☒ N/A ☐ Yes ☐ No ☐ Partial ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D  
**Standpipes:** ☒ N/A ☐ No Class ☐ I-Wet ☐ I-Dry ☐ II-Wet ☐ II-Dry ☐ III-Wet ☐ III-Dry  
**Primary Fire District:** ☐ Yes ☒ No **Flood Hazard Area:** ☐ Yes ☒ No  
**Special Inspections Required:** ☐ No ☐ Yes

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
Level 1	2,000	0	2,000
TOTAL			2,000

**ALLOWABLE AREA**  
**Primary Occupancy Classification(s):**  
 Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5  
 Business ☐ B  
 Educational ☒ E  
 Factory ☐ F-1 ☐ F-2  
 Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM  
 Institutional ☐ I-1 Condition 1 ☐ I-1 Condition 2 ☐ I-2 Condition 1 ☐ I-2 Condition 2 ☐ I-3 Condition 1 ☐ I-3 Condition 2 ☐ I-3 Condition 3 ☐ I-3 Condition 4 ☐ I-3 Condition 5  
 Mercantile ☐ M  
 Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4  
 Storage ☐ S-1 ☐ S-1 High-Piled ☐ S-2 ☐ S-2 High-Piled  
 Utility and Miscellaneous ☐ U  
☐ Parking Garage (Open) ☐ Parking Garage (Enclosed) ☐ Repair Garage

**Accessory Occupancy Classification(s):**  
 Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5  
 Business ☐ B  
 Educational ☒ E  
 Factory ☐ F-1 ☐ F-2  
 Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM  
 Institutional ☐ I-1 Condition 1 ☐ I-1 Condition 2 ☐ I-2 Condition 1 ☐ I-2 Condition 2 ☐ I-3 Condition 1 ☐ I-3 Condition 2 ☐ I-3 Condition 3 ☐ I-3 Condition 4 ☐ I-3 Condition 5  
 Mercantile ☐ M  
 Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4  
 Storage ☐ S-1 ☐ S-1 High-Piled ☐ S-2 ☐ S-2 High-Piled  
 Utility and Miscellaneous ☐ U  
☐ Parking Garage (Open) ☐ Parking Garage (Enclosed) ☐ Repair Garage

**Incidental Uses (Table 509):**  
**Special Uses (Chapter 4 - List Code Sections):**  
**Special Provisions (Chapter 5 - List Code Sections):**  
**Mixed Occupancy:** ☐ Yes ☐ No ☐ Non-Separate (508.3)  
☐ Separated Use (508.4) - See below for area calculations for each story. The area of the occupancy shall be such that the sums of the ratios of the floor area of each use divided by the allowable floor area for each use shall not exceed 1.  
**Separation:** ☐ 1 HR ☐ 2 HR ☐ 3 ☐ 4 HR **Exception:**  
 Actual Area of Occupancy A + Allowable Area of Occupancy B ≤ 1  
 Allowable Area of Occupancy A = 0.025 + 0.025 = 0.05 < 1.00

STORY DESCRIPTION NO. AND USE	(A) ALLOWABLE AREA (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE <sup>2</sup>	(E) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>3</sup>

Frontage area increases from Section 506.2 are computed thus:  
 a. Perimeter which fronts a public way or open space having 20 feet minimum width. **N/A** (F).  
 b. Total Building Perimeter = **P**.  
 c. Ratio (F/P) = **N/A** (F/P).  
<sup>2</sup> W = Minimum width of public way = **N/A** (W).  
<sup>3</sup> Unlimited area applicable under conditions of Section 507.  
<sup>4</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)  
<sup>5</sup> The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.  
<sup>6</sup> Frontage increase is based on the unspinklered area value in Table 506.2

BUILDING HEIGHT IN FEET	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet			
Building Height in Stories			

<sup>1</sup> Provide code reference if the "Shown on Plans" quantity is based on Table 504.3 or 504.4.

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	DETAIL #	DESIGN #	SHEET # FOR SHEET #	FOR SHEET #
Structural frame, including columns, girders, trusses					
Bearing Walls					
Exterior					
North	X > 30'	0HR	0HR		
East	X > 30'	0HR	0HR		
West	X > 30'	0HR	0HR		
South	X > 30'	0HR	0HR		
Interior					
Nonbearing Walls and Partitions					
Exterior walls					
North	X > 30'	0HR	0HR		
East	X > 30'	0HR	0HR		
West	X > 30'	0HR	0HR		
South	X > 30'	0HR	0HR		
Interior walls and partitions					
Floor Construction					
Including supporting beams and joists					
Floor Ceiling Assembly	0HR	0HR			
Columns/Supporting Floors	0HR	0HR			
Roof construction					
Including supporting beams and joists					
Roof Ceiling Assembly	N/A	0HR	0HR		
Columns/Supporting Roof	N/A	0HR	0HR		
Shall Enclosures-Exit	N/A	1HR	N/A		
Shall Enclosures-Other	N/A	1HR	N/A		
Corridor Separation	N/A	1HR	N/A		
Occupancy/Fire Barrier Separation	N/A	N/A	N/A		
Party/Fire Wall Separation	N/A	N/A	N/A		
Smoke Barrier Separation	N/A	N/A	N/A		
Smoke Partition	N/A	N/A	N/A		
Tenant/Dwelling Unit/ Sleeping Unit Separation	N/A	N/A	N/A		
Incidental Use Separation	N/A	N/A	N/A		

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

**LIFE SAFETY SYSTEM REQUIREMENTS**  
 Emergency Lighting: ☒ No ☐ Yes  
 Exit Signs: ☒ No ☐ Yes  
 Fire Alarm: ☒ No ☐ Yes  
 Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial  
 Carbon Monoxide Detection: ☒ No ☐ Yes  
**LIFE SAFETY PLAN REQUIREMENTS**  
 Life Safety Plan Sheet #:   
☐ Fire and/or smoke rated wall locations (Chapter 7)  
☐ Assumed and real property line locations (if not on the site plan)  
☐ Exterior wall opening area with respect to distance to adjacent property lines (705.8)  
☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)  
☐ Occupant loads for each area  
☐ Exit access travel distances (1017)  
☐ Common path of travel distances (Tables 1006.2.1 and 1006.2.2)  
☐ Dead end lengths (1020.4)  
☐ Clear exit widths for each exit door  
☐ Maximum calculated occupant load capacity  
☐ Actual occupant load for each exit door  
☐ A separate schematic plan indicating where fire and/or smoke rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation  
☐ Location of doors with panic hardware  
☐ Location of doors with delayed egress and the amount of delay (1010.1.9.7)  
☐ Location of doors with electromagnetic locks (1010.1.9.9)  
☐ Location of doors equipped with an alarm device  
☐ Location of emergency escape windows (1030)  
☐ The square footage of each fire area (202)  
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)  
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE SPACES PROVIDED

USE	WATERCLOSETS	URINALS	LAVATORIES	SHOWERS/TUBS	DRINKING FOUNTAINS
MALE/FEMALE	UNI	SEX	MALE/FEMALE	UNI	SEX
SPACE LOAD	REQ'D	REQ'D	REQ'D	REQ'D	REQ'D
NEW					

\* INCLUDED IN THE FEMALE PLUMBING LOAD  
 Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

**ENERGY REQUIREMENTS:**  
 The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.  
**Existing building envelope complies with code:** ☐ No ☐ Yes (the remainder of this section is not applicable)  
**Exempt Building:** ☐ No ☐ Yes  
**Climate Zone:** ☐ N/A ☒ 3A ☐ 4A ☐ 5A  
**Method of Compliance:**  
☐ Energy Code - Prescriptive  
☒ Energy Code - Performance  
☐ ASHRAE 90.1 - Prescriptive  
☐ ASHRAE 90.1 - Performance  
☐ Other - Performance, If "Other" specify as follows:  
**THERMAL ENVELOPE:** (Prescriptive Method Only)  
 Roof/Ceiling Assembly (each assembly)  
 Description of assembly:  
 U-Value of total assembly:  
 R-Value of insulation:  
 Skylights in each assembly:  
 U-Value of skylight:  
 Total square foot of skylights in each assembly:  
 Exterior Walls (each assembly)  
 Description of assembly:  
 U-Value of total assembly:  
 R-Value of insulation:  
 Openings (if any) or doors with glazing:  
 U-Value of opening:  
 Solar heat gain coefficient:  
 Projection Factor:  
 Door R-values:  
 Walls below grade (each assembly)  
 Description of assembly:  
 U-Value of total assembly:  
 R-Value of insulation:  
 Floors over unconditioned space (each assembly)  
 Description of assembly:  
 U-Value of total assembly:  
 R-Value of insulation:  
 Floor slabs on grade (each assembly)  
 Description of assembly:  
 U-Value of total assembly:  
 R-Value of insulation:  
 Horizontal/Vertical requirement:  
 Slab Heated:

DESIGN LOADS:	Wind (lw)	Snow (ls)	Seismic (le)
Importance Factors:	<input type="checkbox"/> 1.0 <input type="checkbox"/> 1.0 <input type="checkbox"/> 1.1 <input type="checkbox"/> 1.2	<input type="checkbox"/> 0.8 <input type="checkbox"/> 1.0 <input type="checkbox"/> 1.1 <input type="checkbox"/> 1.2	<input type="checkbox"/> 0.8 <input type="checkbox"/> 1.0 <input type="checkbox"/> 1.1 <input type="checkbox"/> 1.2
Live Loads:	Roof: _____ psf	Mezzanine: _____ psf	Floor: _____ psf
Ground Snow Load:	_____ psf		
Wind Load:	Basic Wind Speed _____ mph (ASCE 7)	Exposure Category: <input type="checkbox"/> N/A <input type="checkbox"/> B <input type="checkbox"/> D	

**SEISMIC DESIGN CATEGORY** ☐ N/A ☐ A ☐ B ☐ C ☐ D  
 Provide the following Seismic Design Parameters:  
 Occupancy Category (Table 1604.5): ☐ I ☐ II ☐ III ☐ IV  
 Spectral Response Acceleration: ☐ 0.2 ☐ 0.3 ☐ 0.4 ☐ 0.5 ☐ 0.6 ☐ 0.7 ☐ 0.8 ☐ 0.9 ☐ 1.0  
 Site Classification (ASCE 7): ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐ S6  
 Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data  
 Basic structural system (check): ☐ N/A ☐ Special Moment Frame ☐ Intermediate R/C or Special Steel ☐ Moment Resisting Frame ☐ Special Steel ☐ Special Steel ☐ Special Steel ☐ Special Steel  
 Analysis Procedure: ☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic  
 Architectural, Mechanical, Components anchored? ☐ N/A ☐ Yes ☐ No  
**LATERAL DESIGN CONTROL:** ☐ N/A ☐ Earthquake ☐ Wind  
**SOIL BEARING CAPACITIES:**  
 Field Test (provide copy of test report) **N/A** psf  
 Presumptive Bearing Capacity **N/A** psf  
 Pile size, type, and capacity

**MECHANICAL DESIGN (SEE MECHANICAL SHEETS)**  
**MECHANICAL SUMMARY**  
 Thermal Zone winter dry bulb:  
 summer dry bulb:  
 Interior design conditions winter dry bulb:  
 summer dry bulb:  
 relative humidity:  
 Building heating load:  
 Building cooling load:  
 Mechanical Spacing Condition:  
 Unitary description of unit:  
 heating efficiency:  
 cooling efficiency:  
 size category:  
 Boiler size category, oversized, state reason:  
 Chiller size category, oversized, state reason:  
 List equipment efficiencies:

**ELECTRICAL DESIGN (SEE ELECTRICAL SHEETS)**  
**ELECTRICAL SUMMARY**  
**ELECTRICAL SYSTEM AND EQUIPMENT**  
**Method of Compliance:**  
 Energy Code: ☐ Prescriptive ☐ Performance  
 ASHRAE 90.1: ☐ Prescriptive ☐ Performance  
**Lighting schedule (each fixture type)**  
 lamp type required in future  
 number of lamps in fixture  
 ballast type used in the future  
 number of ballasts in fixture  
 total wattage per fixture  
 total interior wattage specified vs. allowed (whole building or space by space)  
 total exterior wattage specified vs. allowed  
**Additional Required Prescriptive Compliance**  
☐ 406.2 More Efficient Mechanical Equipment  
☐ 406.3 Reduced Lighting Power Density  
☐ 406.4 Energy Recovery Ventilation Systems  
☐ 406.5 Higher Efficiency Service Water Heating  
☐ 406.6 On-Site Supply of Renewable Energy  
☐ 406.7 Automatic Daylighting Control Systems

NUMBER	NAME	DATE	REV#
G-000	COVER SHEET	10/28/2022	
G-001	PROJECT INFORMATION & SHEET INDEX	10/28/2022	
A-100	BUILDING ELEVATIONS	10/28/2022	
AS-001	SITE PLAN	10/28/2022	
A-101	GATE 1 - PLANS AND ELEVATIONS	10/28/2022	
A-102	GATE 2 - PLANS AND ELEVATIONS	10/28/2022	
A-103	GATE 3 - PLANS AND ELEVATIONS	10/28/2022	
A-104	GATE 4 - PLANS AND ELEVATIONS	10/28/2022	
A-501	GATE DETAILS & SCHEDULE	10/28/2022	
E100	ELECTRICAL LEGEND	10/28/2022	
E201	OVERALL CAMPUS PLAN	10/28/2022	
E301	ENLARGED PLAN - GATE 1	10/28/2022	
E302	ENLARGED PLAN - GATE 2	10/28/2022	
E303	ENLARGED PLAN - GATE 3 & 4	10/28/2022	

## MATERIAL LEGEND

### PLAN AND SECTION



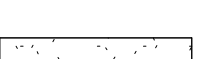
EARTH



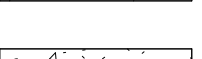
POROUS FILL (STONE OR GRAVEL)



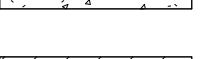
ROCK



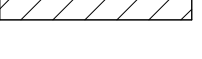
LIGHTWEIGHT CONCRETE (OR CONCRETE FILL)



STRUCTURAL CONCRETE (CAST IN PLACE, ETC.)



BRICK (COMMON OR FACE)



CONC. MASONRY UNITS (C.M.U.)

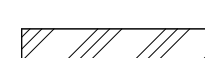
(NOT ALL MATERIALS APPLICABLE)



PLASTER, CEMENT, SAND, GROUT



STEEL, IRON



ALUMINUM



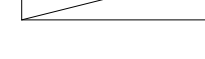
WOOD (FINISH)



WOOD (ROUGH)



WOOD BLOCKING



PLYWOOD

## GRAPHIC SYMBOL LEGEND

DRAWING TITLE

DRAWING LOCATION ON SHEET GRID

DRAWING NAME

DRAWING SCALE

DRAWING LOCATION ON SHEET GRID

DRAWING NAME

DRAWING SCALE

SHEET NUMBER WHERE DETAIL IS DRAWN

SHEET NUMBER WHERE DETAIL IS REFERENCED

DETAIL/PLAN KEY

DETAIL LOCATION ON SHEET GRID

SHEET IDENTIFIER FOR LOCATION OF DETAIL

REVISION INDICATION

REVISION NUMBER

AREA REVISED

DOOR NUMBER

GLASS TYPE

SUBSYSTEM

ROOM NAME & NUMBER

ROOM NAME

ROOM NUMBER

ENLARGED DETAIL INDICATOR

DETAIL LOCATION ON SHEET GRID

SHEET IDENTIFIER FOR LOCATION OF DETAIL

SECTION KEYS

DIRECTION OF SECTION

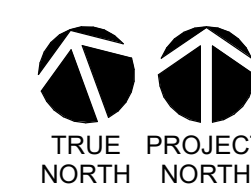
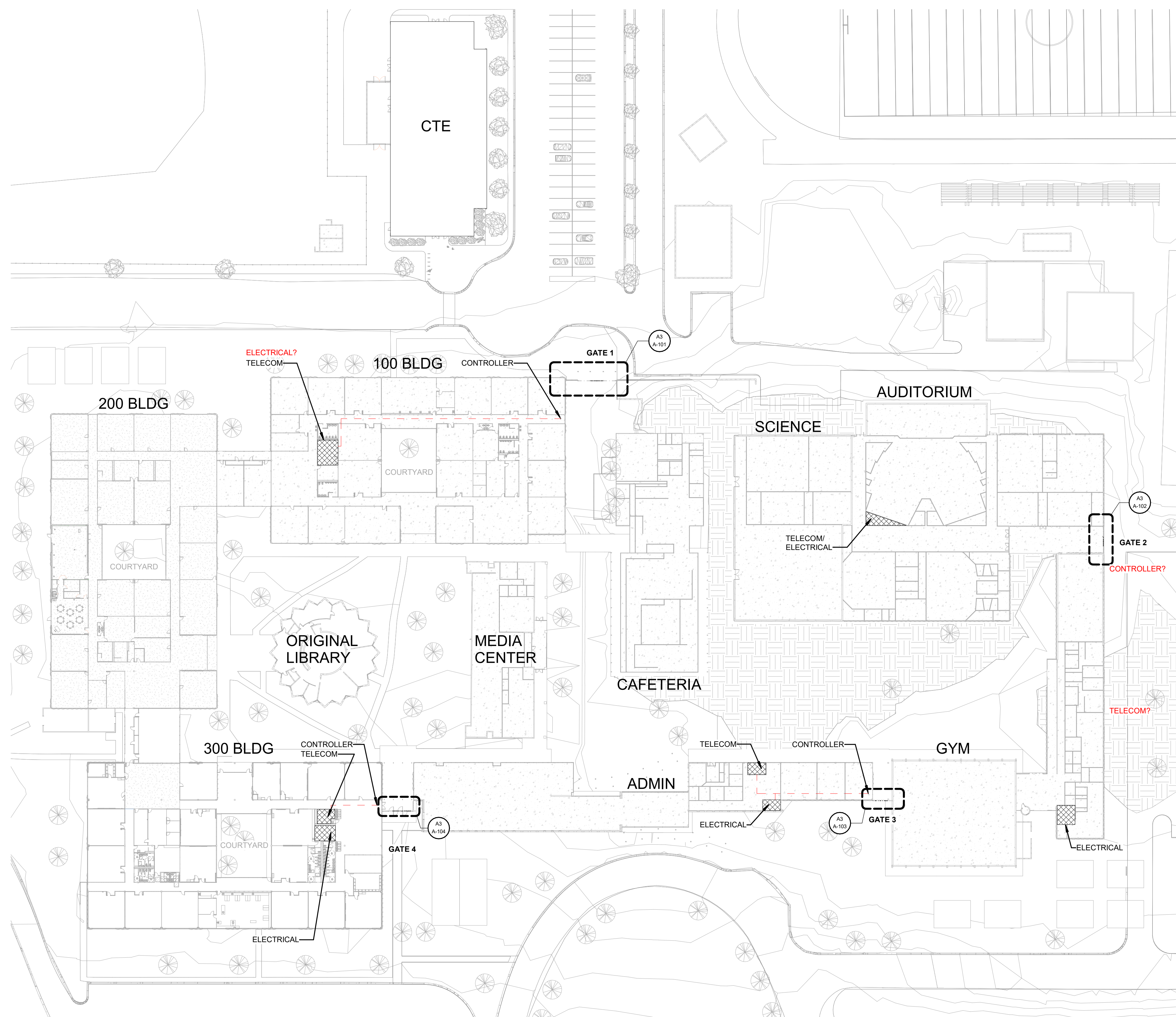


11100 Eastway Dr Charlotte, NC 28205

LS3P PROJECT: 9201-202550

[illegible]

FOR CONSTRUCTION



**A1 ARCHITECTURAL SITE BUILDING PLAN**  
1" = 50'-0"



THESE DRAWINGS ARE EXACTLY  
AS SHOWN AND ARE NOT TO BE  
USED FOR ANY OTHER PURPOSE

E

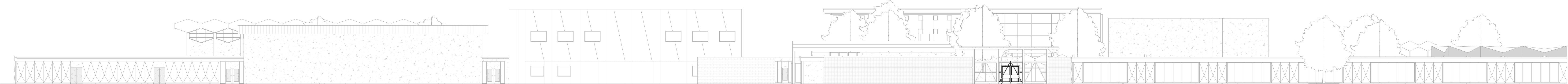
D

C

B

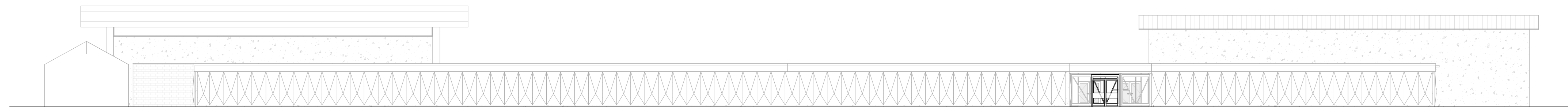
A

10/13/2022 4:19:55 PM



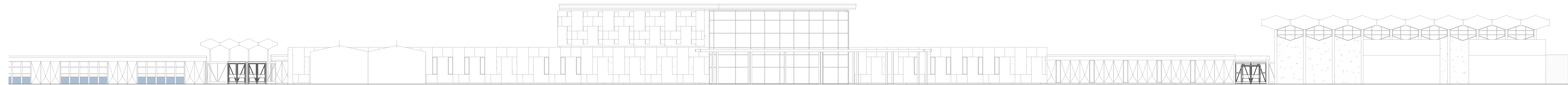
GATE 1

**C1 CAMPUS ELEVATION - NORTH**  
1" = 20'-0"



GATE 2

**B1 CAMPUS ELEVATION - EAST**  
1" = 20'-0"



GATE 4

GATE 3

**A1 CAMPUS ELEVATION - SOUTH**  
1" = 20'-0"

1

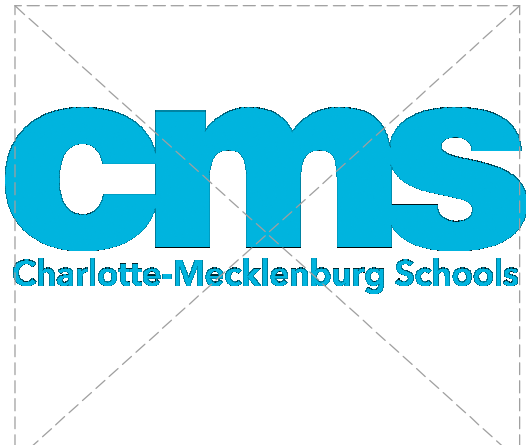
2

3

4

5

6



Charlotte  
Mecklenburg  
Schools



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CHARLOTTE, NORTH CAROLINA 28202  
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**CMS Garinger HS - Security  
Gate Modifications**  
1100 Eastway Dr Charlotte, NC 28205

LS3P PROJECT: 92011-202550

DATE	DESCRIPTION

SHEET NAME:  
BUILDING  
ELEVATIONS

ORIG SUBMISSION: 10/28/2022

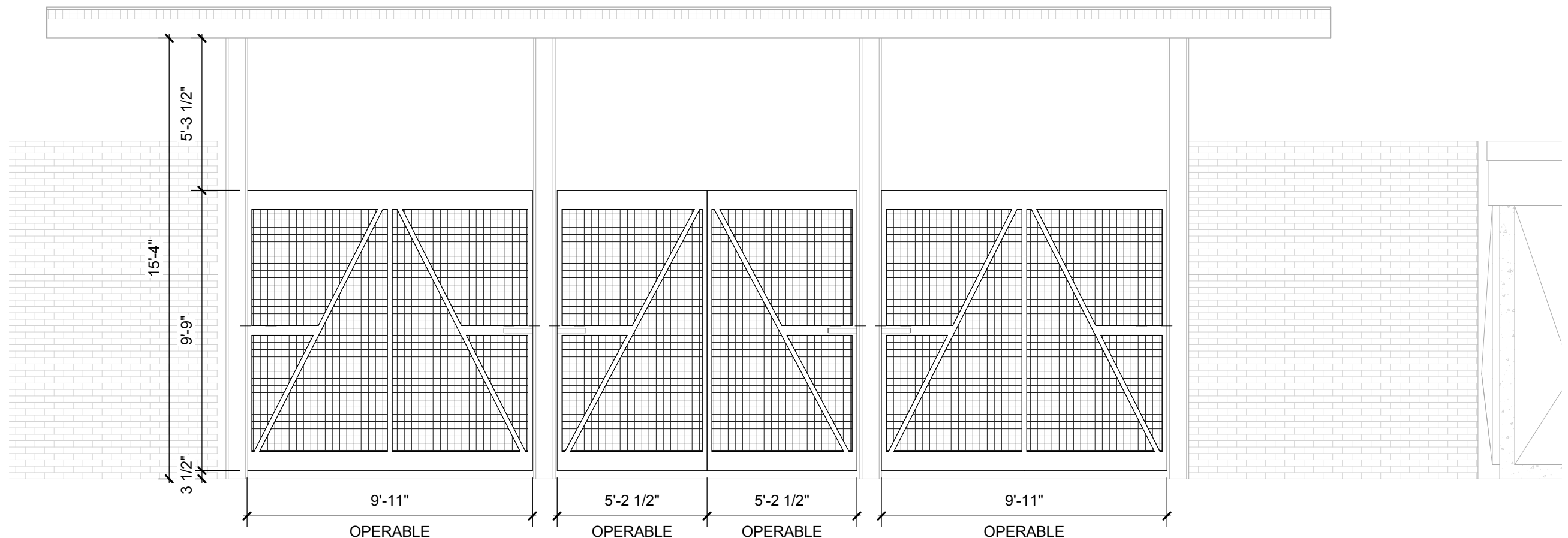
SHEET:  
**A-100**

FOR CONSTRUCTION

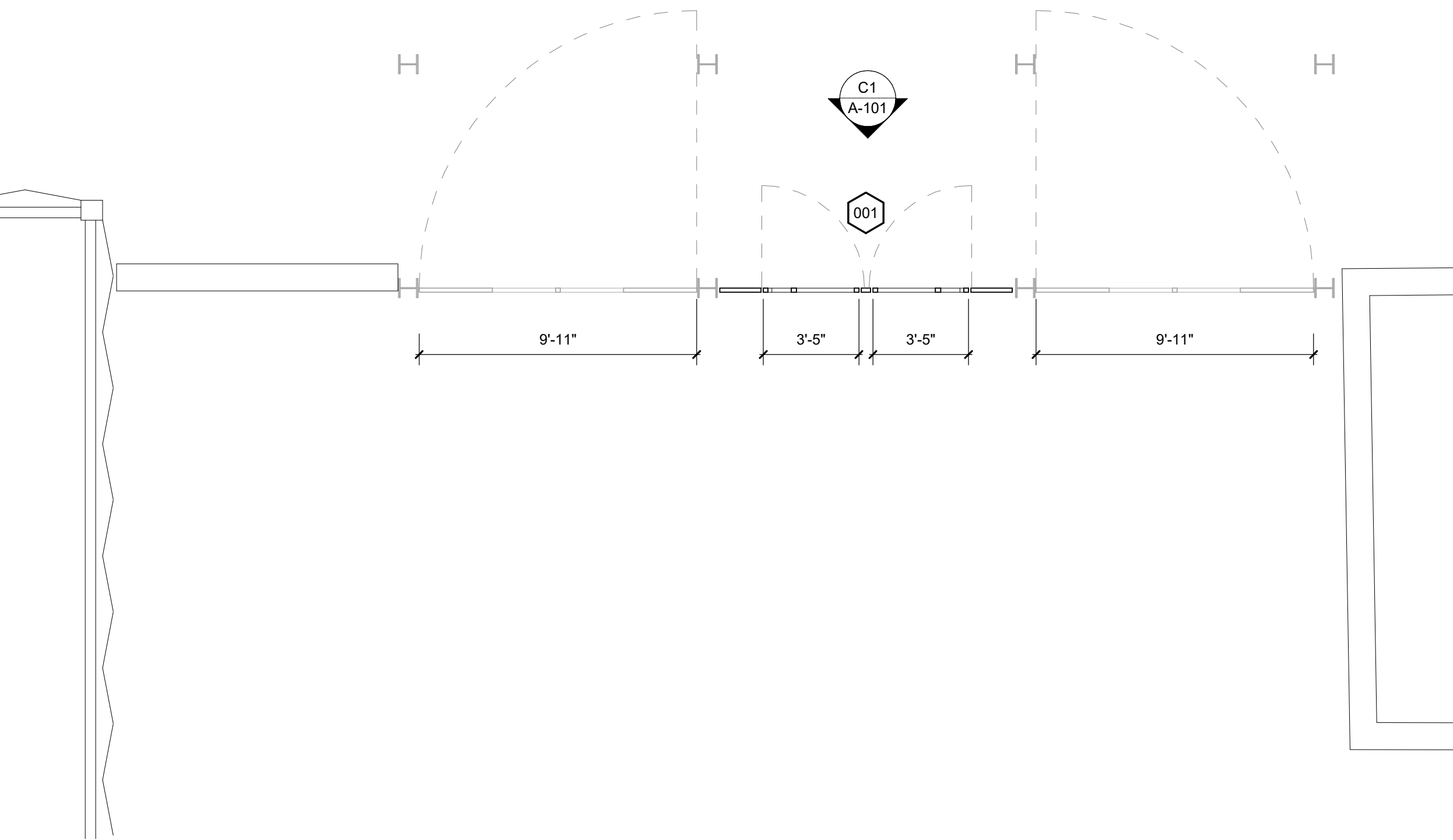


**A**

6



**A1 NORTH ELEVATION - GATE 1 - EXISTING**



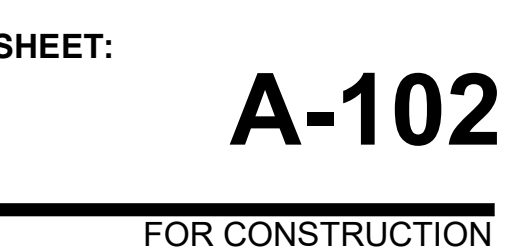
### FLOOR PLAN - GATE 1 - EXISTING

1. FABRICATION TO RE-USE EXISTING GATE MATERIAL WHERE POSSIBLE.
2. GRIND SMOOTH ALL WELDS.
3. PAINT NEW GATE SURFACES TO MATCH EXISTING.
4. RE-PAINT EXISTING GATES AND COLUMNS AT EACH LOCATION.
5. CONCEAL MC CABLE RUNS BY UTILIZING COLUMNS AND BACK SIDE OF GATES,  
SEE GATE ELEVATIONS FOR SUGGESTED PATHWAYS.

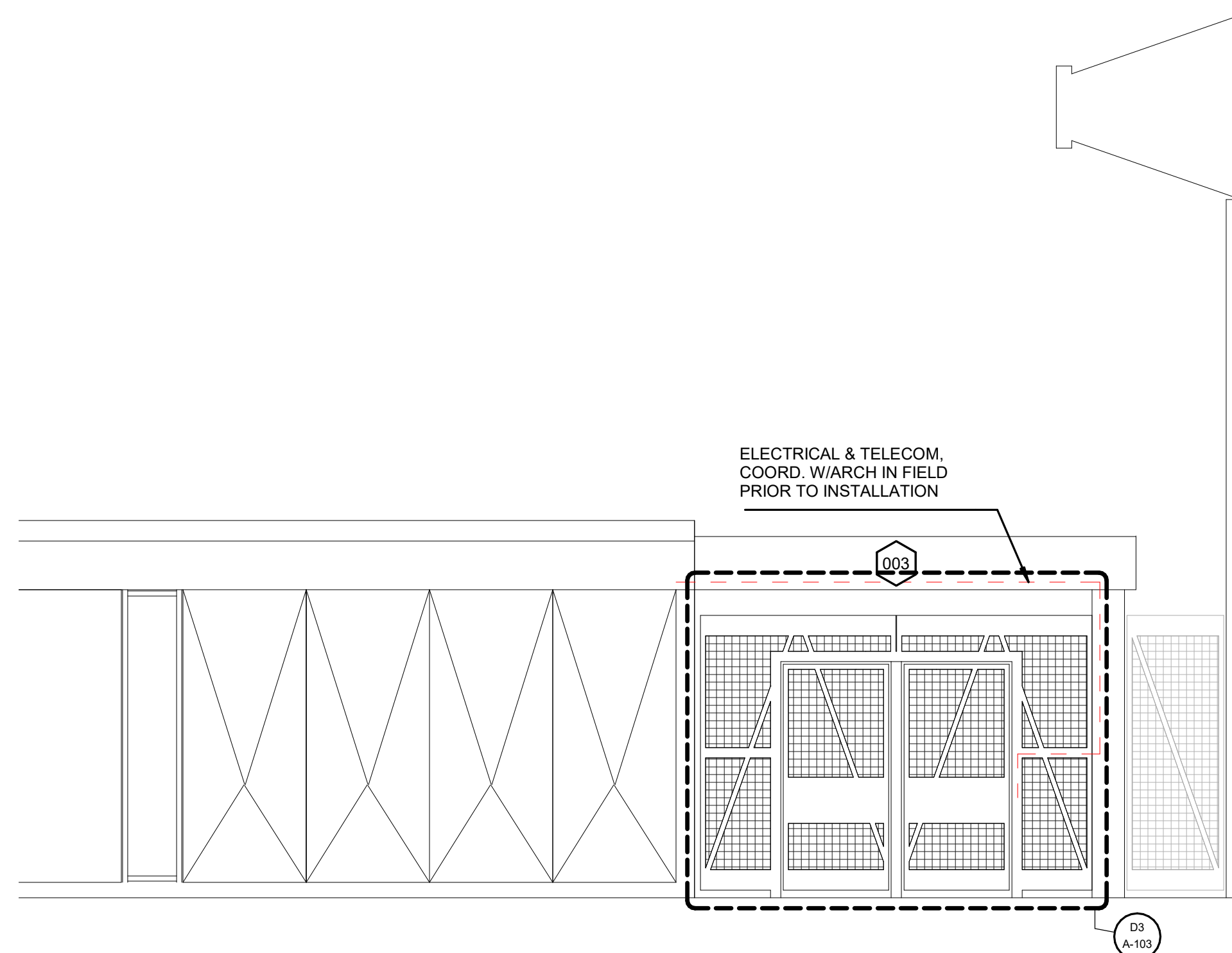


FOR CONSTRUCTION

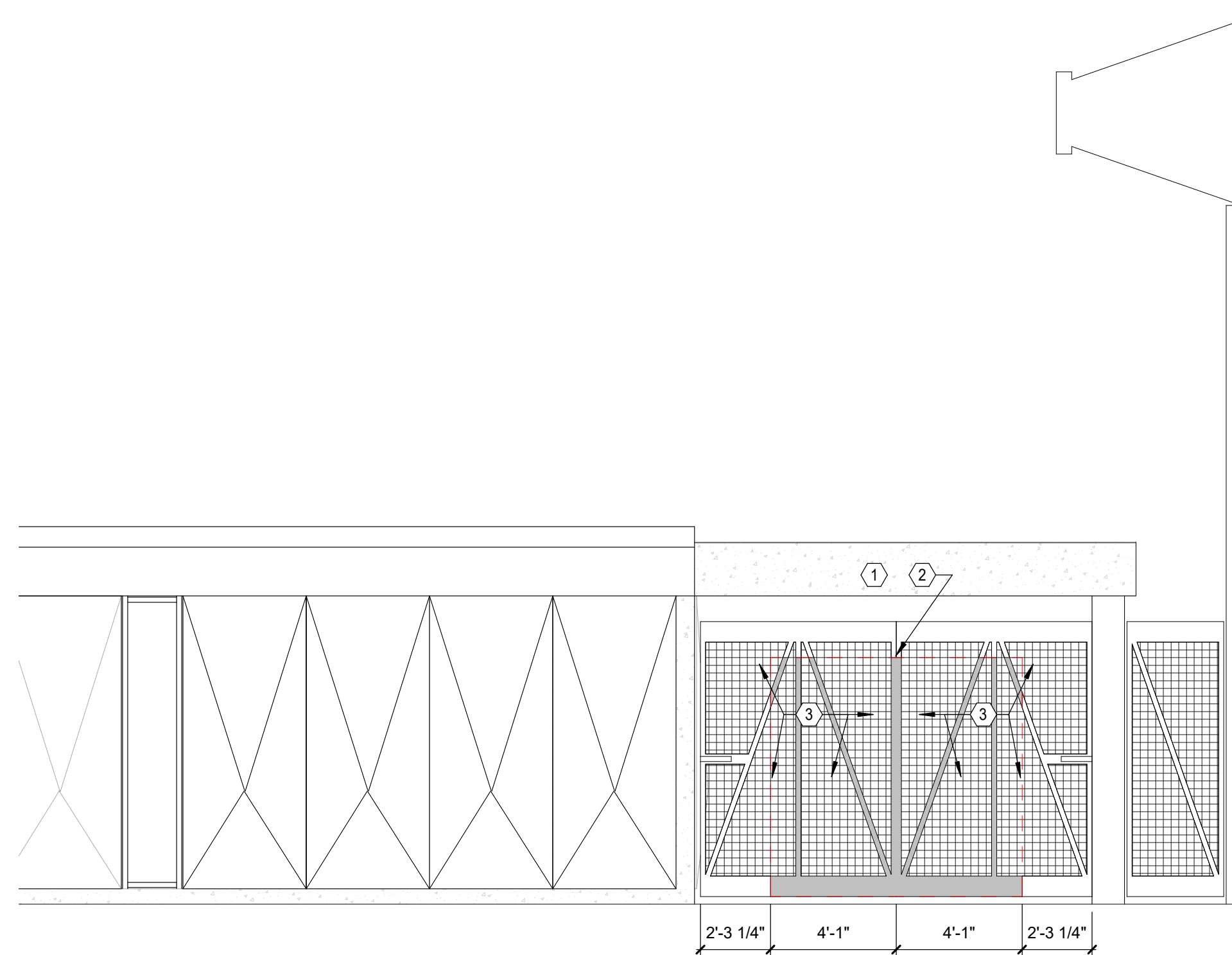




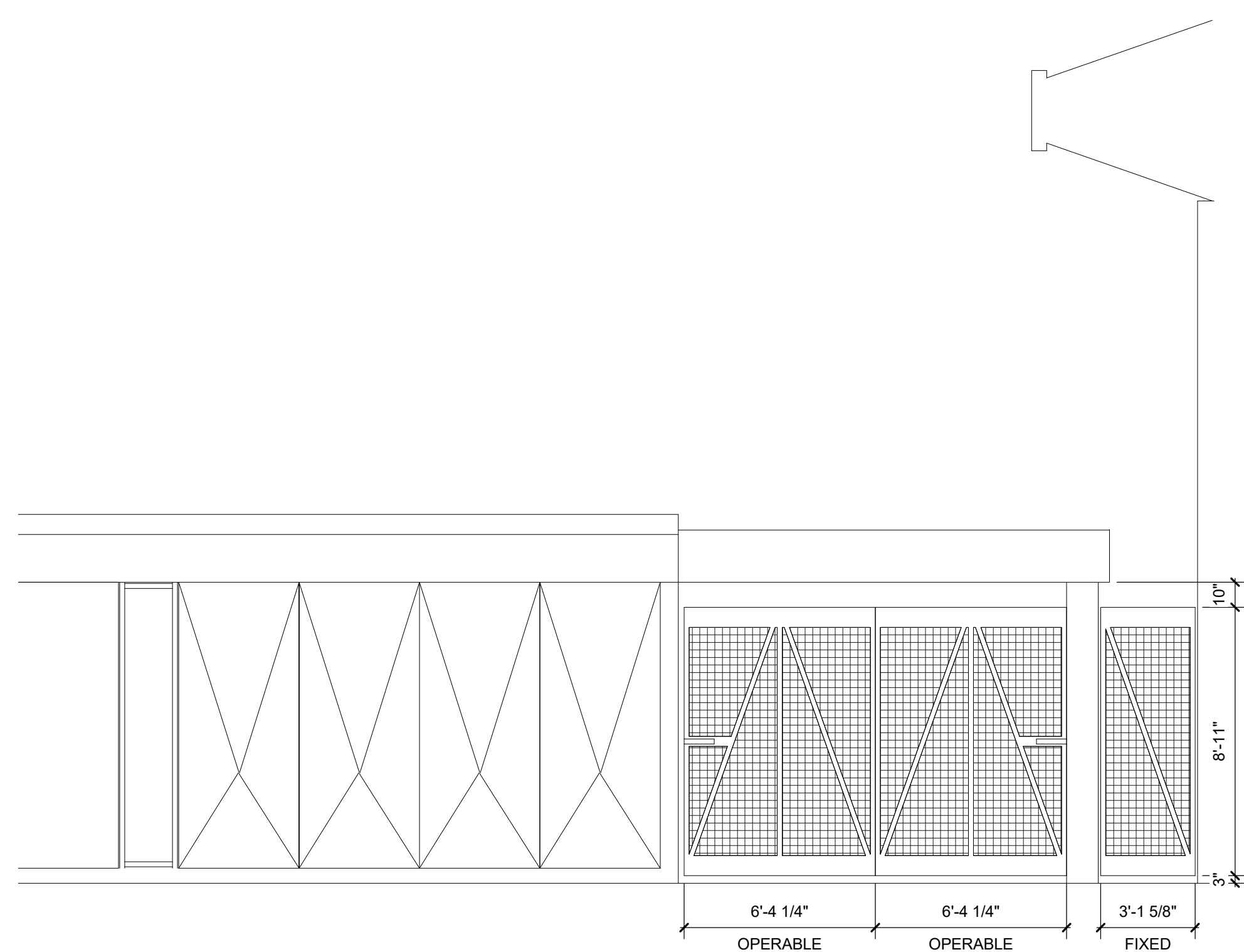




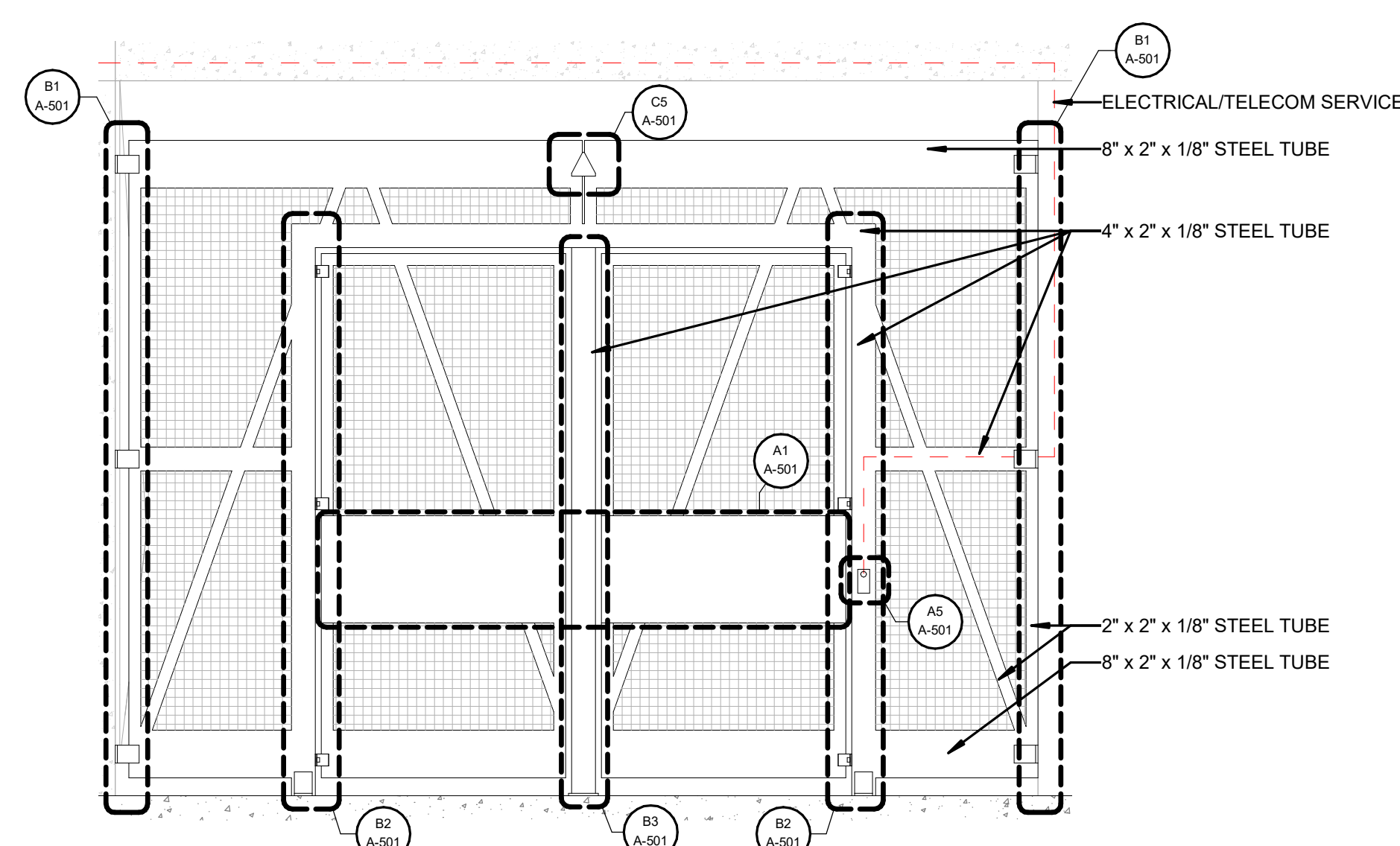
**D1 SOUTH ELEVATION - GATE 3 - NEW**  
1/4" = 1'-0"



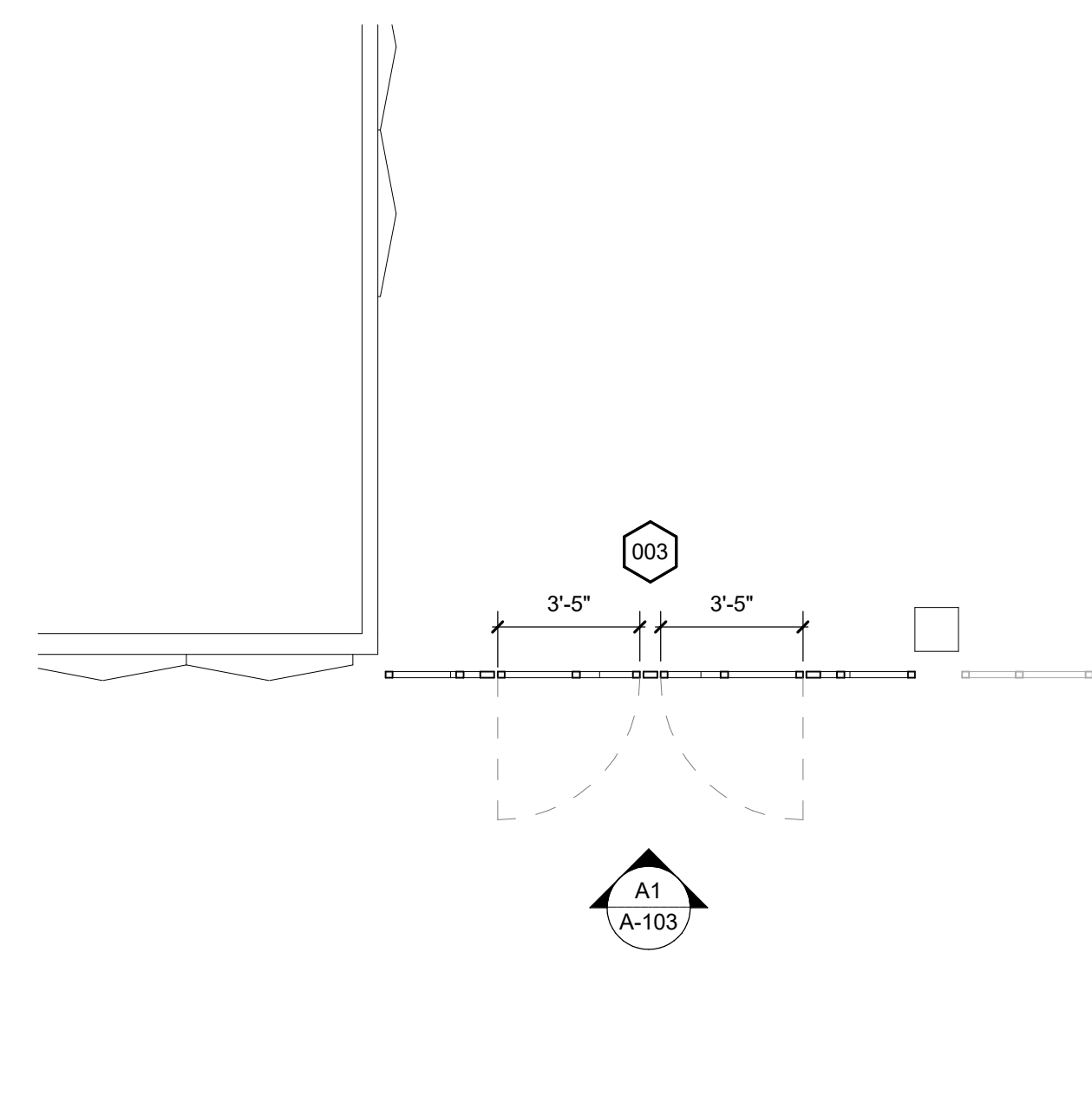
**B1 SOUTH ELEVATION - GATE 3 - DEMOLITION**  
1/4" = 1'-0"



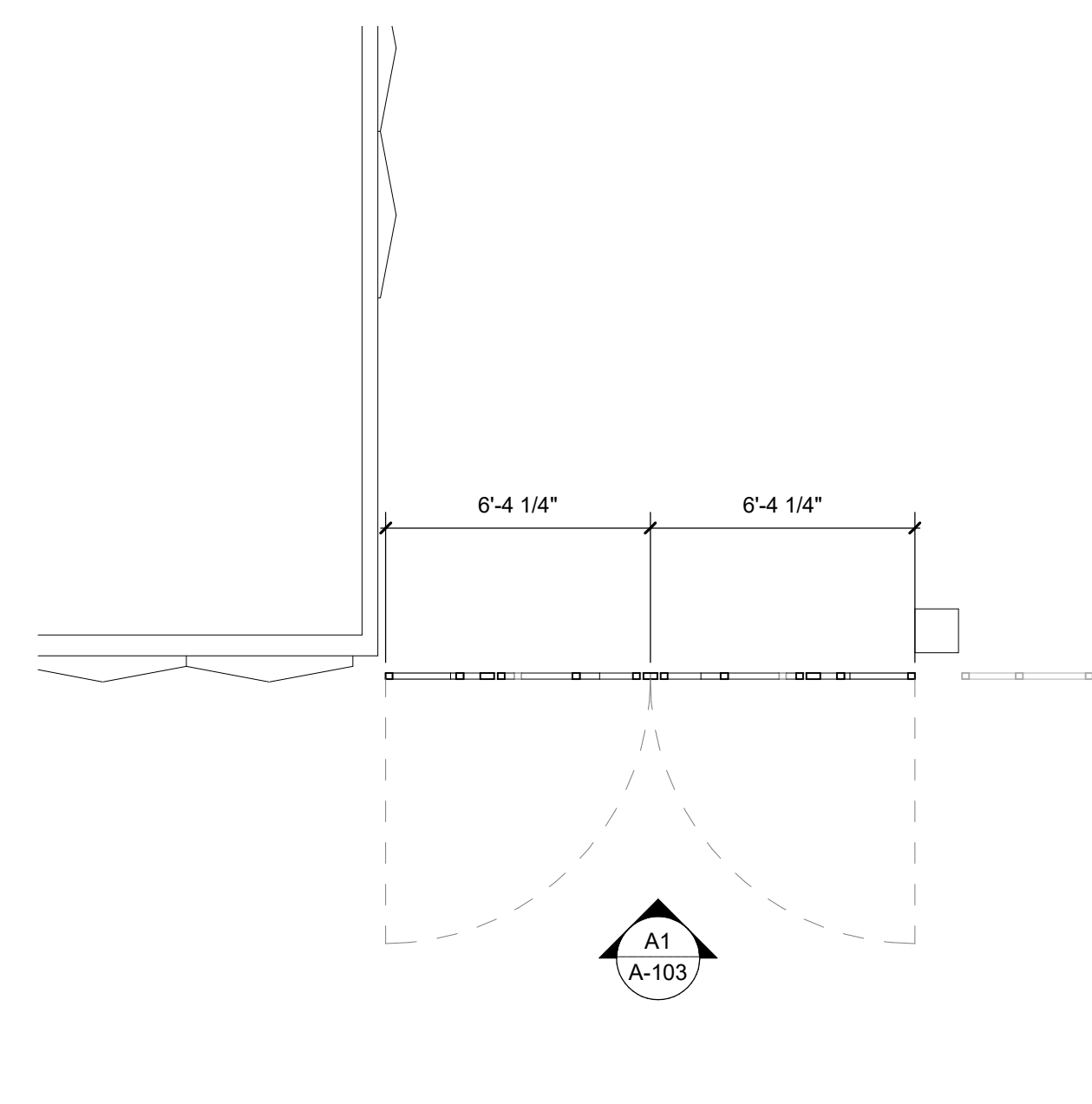
**A1 SOUTH ELEVATION - GATE 3 - EXISTING**  
1/4" = 1'-0"



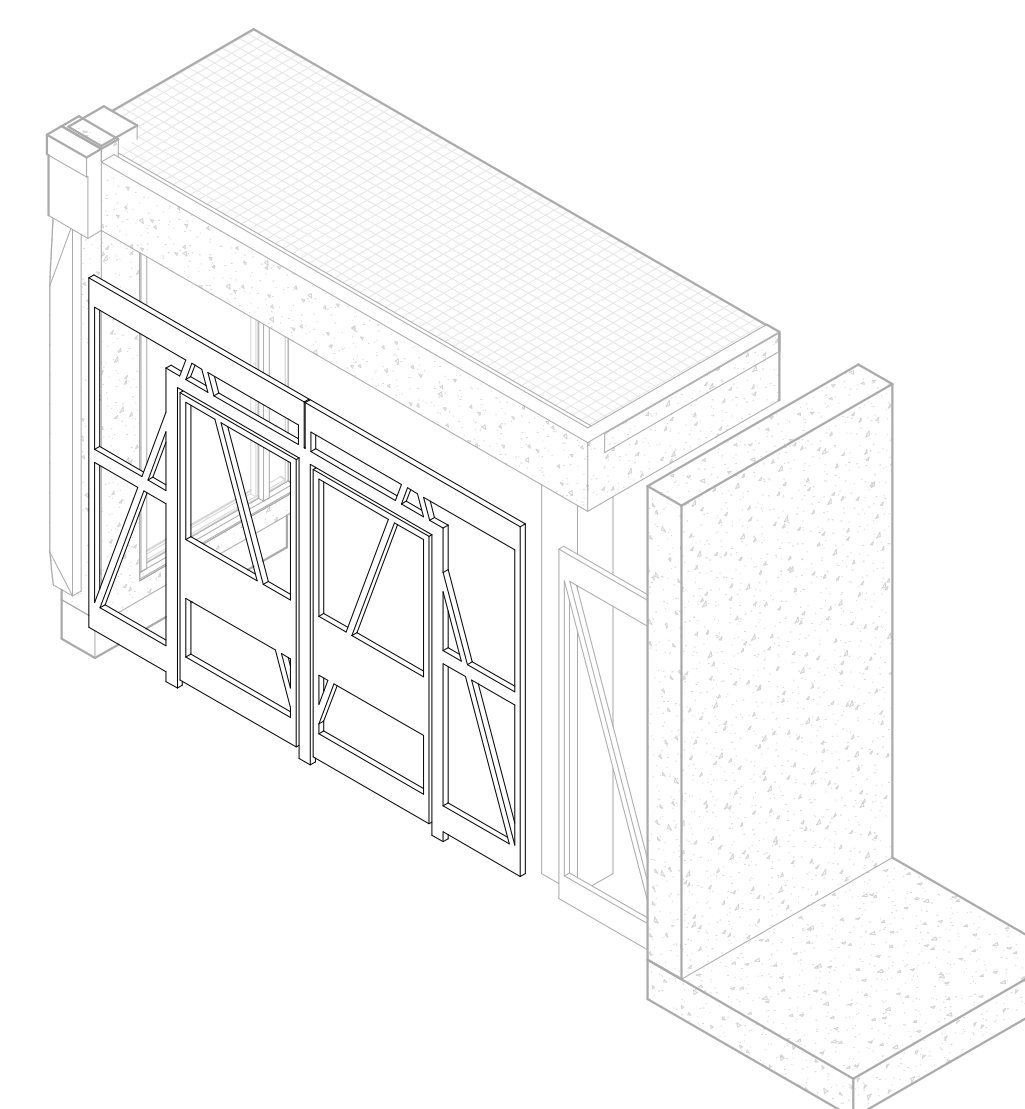
**D3** ENLARGED ELEVATION - GATE 3  
1/2" = 1'-0"



**B3** FLOOR PLAN- GATE 3 - NEW  
1/4" = 1'-0"



**A3 FLOOR PLAN- GATE 3 - EXISTING**  
1/4" = 1'-0"



**A4 3D AXON - GATE 3 - NEW**

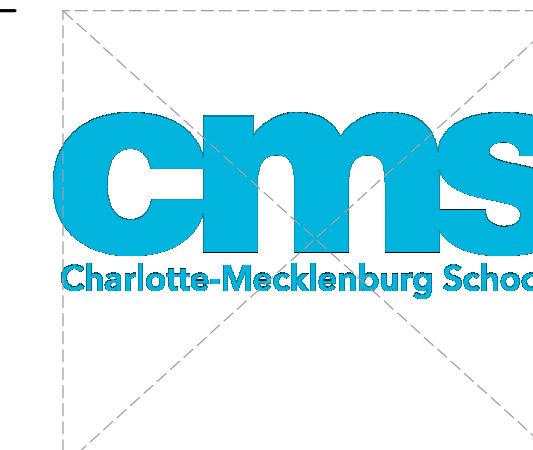
DEMOLITION NOTES BY NUMBER	
#	NOTE
1	REMOVE HINGES AND GATE FOR OFFSITE FABRICATION
2	REMOVE PORTIONS OF STEEL FRAME INDICATED BY SHADED SECTIONS
3	REMOVE MESH AND MESH FRAME

## DEMOLITION PLAN SHEET NOTES

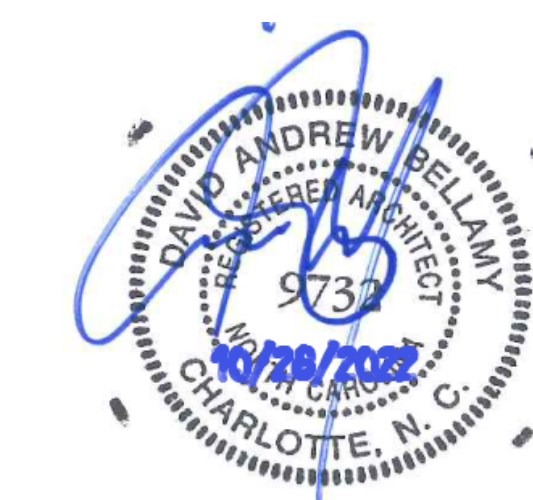
1. USE G-001 FOR SHEET-SPECIFIC GRAPHICS & SYMBOLS.
2. NUMBERED KEY NOTES DO NOT IMPLY SEQUENCE. CONTRACTOR TO PERFORM DEMOLITION WORK AS REQUIRED PER WORK SEQUENCE.
3. DEMOLITION DRAWINGS SHALL BE CONSIDERED TO BE THE AREAS OF DEMOLITION WORK AS WELL AS GENERAL EXISTING CONDITIONS. THEY DO NOT SHOW ALL WORK WHICH MAY BE NECESSARY. COMPARE WITH DRAWINGS INDICATING EXISTING STRUCTURE.
4. REFER TO OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON DEMOLITION. REFER TO ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
5. EXISTING WORK TO REMAIN SHALL BE TEMPORARILY SECURED, BRACED, STABILIZED AND PROTECTED UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
6. THE CONTRACTOR SHALL MAINTAIN THE FOLLOWING CONDITIONS:
  - A. WATERPROOFING, EMERGENCY LIGHTING, SECURITY, ALARMS, ETC. FOR ALL OR PART OF ITEMS WHICH ARE TO REMAIN.
  - B. MAINTAIN THE FOLLOWING CONDITIONS OF DEMOLITION-CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
7. ERECT BARRICADES, FENCES OR OTHER SECURABLE MEANS TO PREVENT UNAUTHORIZED ACCESS TO THE WORK AREA.
8. DO NOT ALLOW MATERIAL AND DEBRIS GENERATED BY DEMOLITION ACTIVITIES TO ACCUMULATE ON OR NEAR THE EXISTING STRUCTURE OR TO BE REMOVED IN AN UNLAWFUL MANNER. NO ON-SITE SLOP OR BURNING OF REMOVED ITEMS IS PERMITTED.
9. PREPARE AND PATCH SURFACES THAT ARE TO RECEIVE NEW FINISHES IMMEDIATELY AFTER THE COMPLETION OF DEMOLITION WORK.
10. MAINTAIN EXISTING FINISHES TO THE MAXIMUM EXTENT POSSIBLE. FOR APPEARANCES, REFER TO FINISH SCHEDULE FOR NEW FINISHES.
11. MAINTAIN EXISTING FINISHES, OPERATIONAL CHARACTERISTICS, AND PERFORMANCE OF EXISTING STRUCTURE. REMOVE OR PATCH, AS REQUIRED, EXISTING HINGES/BRACKETS/FABRICATIONS TO BE REMOVED U.N.O.
12. IN THE EVENT THAT ANY PARTY ENCOUNTERS SUSPECTED ASBESTOS, LEAD, OR OTHER HAZARDOUS OR TOXIC MATERIALS, OR IF IT BECOMES KNOWN THAT SUCH MATERIAL MAY BE PRESENT AT THE JOB SITE WORK AREA, STOP WORK IMMEDIATELY AND NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING.

## NEW CONSTRUCTION SHEET NOTES

1. FABRICATION TO RE-USE EXISTING GATE MATERIAL WHERE POSSIBLE.
2. GRIND SMOOTH ALL WELDS.
3. PAINT NEW GATE SURFACES TO MATCH EXISTING.
4. RE-PAINT EXISTING GATES AND COLUMNS AT EACH LOCATION.
5. CONCEAL MC CABLE RUNS BY UTILIZING COLUMNS AND BACK SIDE OF GATES  
SEE GATE ELEVATIONS FOR SUGGESTED PATHWAYS

Charlotte  
Mecklenburg  
Schools

227 WEST TRADE STREET, SUITE 700  
CHARLOTTE, NORTH CAROLINA 28202  
TEL. 704.333.6686 FAX. 704.333.2926  
WWW.LS3P.COM



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## CMS Garinger HS - Security Gate Modifications

100 Eastway Dr Charlotte, NC 28205

S3P PROJECT: 9201-202550

[illegible]

**SHEET NAME:**  
GATE 3 - PLANS  
AND ELEVATIONS

ORIG 10/28/2022  
SUBMISSION:

SHEET:

**A-103**

FOR CONSTRUCTION







ALL GATES TO BE  
SECURED WITH  
FREE EGRESS AT  
ALL TIMES





AA. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PHASE, SHALL BE INSTALLED CONTINUOUS INsofar AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.

BB. NO CONDUIT, SUPPORTS, ETC., SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAN BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

CC. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.

DD. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH JUNCTION BOX WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

EE. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISE OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.


































FF. ALL ITEMS HAVING KEYS/LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYS SHALL MATCH THE OWNERS' OR LISTING KEYWAYS. COORDINATE EXACT REQUIREMENT WITH FMO OWNER PRIOR TO CONSTRUCTION.

GG. NOISE WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER 0600 HOURS AND BEFORE 0600 HOURS.

HH. HIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK, ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE RELEVANT STANDARDS FOR SUCH WORK.

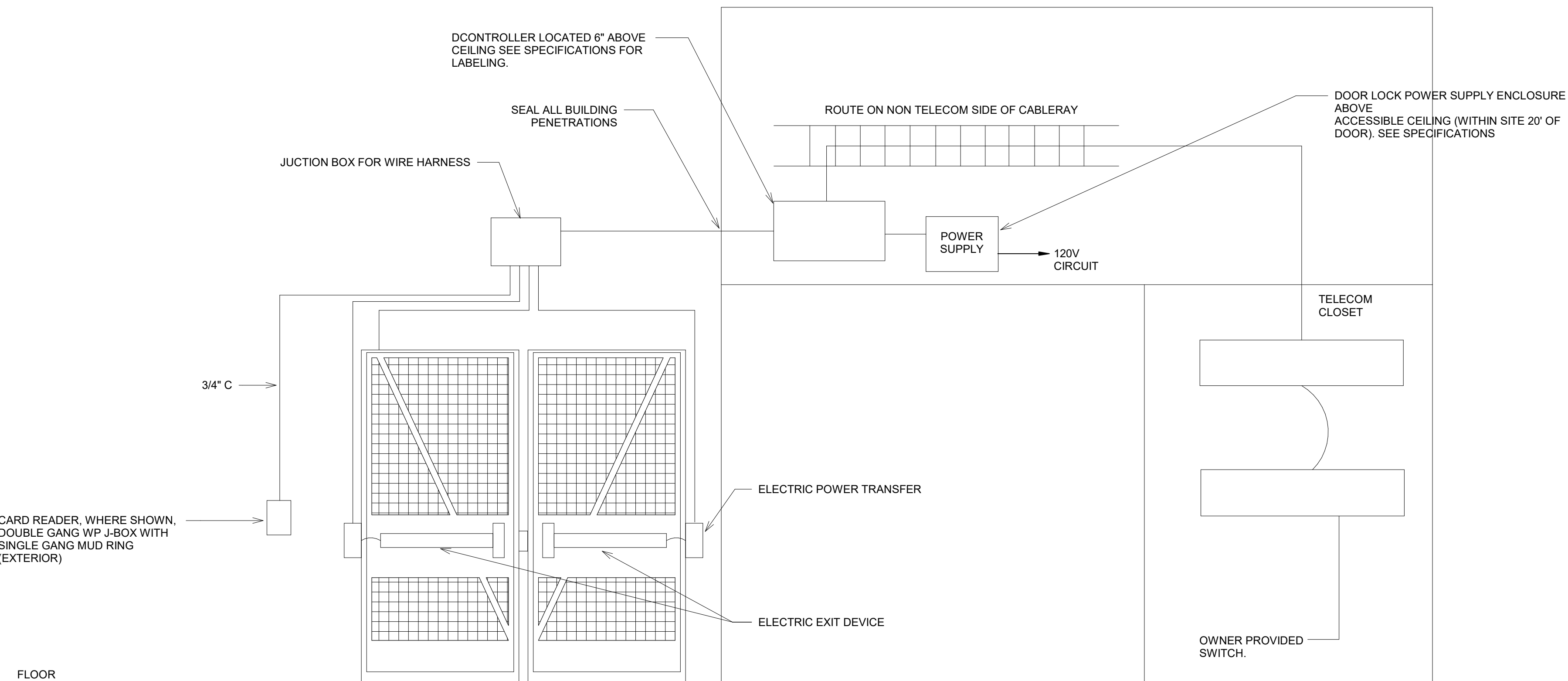
II. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS AND ALL SAFETY REGULATIONS. ALL SAFETY REGULATIONS UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

JJ. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AND ALL AFFECTED PARTIES. ADVANCE NOTICE OF ANY ANTICIPATED INTERRUPTION, A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY ALL AFFECTED PARTIES IN WRITING AT LEAST TWO WEEKS IN ADVANCE. IN WRITING, IF ANY OF THE COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.

DESCRIPTION	NOTING HEIGHT	DRAINING SYMBOL
<b>MISCELLANEOUS</b>		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE. ARROWS INDICATES HOME RUN & # OF CIRCUITS. HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		 GROUND NEUTRAL PHASE
DISCONNECT SWITCH	5'-0"	
MAGNETIC STARTER	5'-0"	
MAGNETIC COMBINATION STARTER	5'-0"	
VARIABLE FREQUENCY DRIVE	5'-0"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
CIRCLE ON ANY DEVICE INDICATES SURFACE FED FROM STUB UP CONDUIT		
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
PUSHBUTTON STATION	46"	
EMERGENCY POWER OFF PUSHBUTTON	46"	
LAB SHUTDOWN UTILITY CONTROLLER	46"	
REMOTE EMERGENCY STOP FOR LAB CONTROLLER	46"	
FLEXIBLE CONDUIT		
PANLEBOARD, SURFACE, OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-4" TO TOP	 
TRANSFORMER	AS NOTED	
EQUIPMENT TAG. REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
PULSE TYPE UTILITY METER		
LADDER CABLE TRAY WITH DIVIDER, SIZE AS NOTED	AS SHOWN	
LOW VOLTAGE CABLE PATH		
EQUIPMENT HARDWARE CONNECTION (SEE DETAIL)		
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
INDICATES MOUNTING ABOVE COUNTER-TOP, 2" ABOVE BACKSPASH, NO HIGHER THAN 48"		C
WIREGUARD - PROVIDE MANUFACTURERS SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC. AS SUITABLE FOR OUTDOORS.		WP
INDICATES EMERGENCY POWER		E,EM
CONNECTION TO ELECTRIC HAND DRYER. PROVIDE 20A SWITCH ABOVE RESTROOM CEILING TO SERVE AS A DISCONNECT. (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE, EXTERNAL TYPE		
GENERATOR ANNUNCIATOR PANEL - SEE SPECIFICATIONS	46"	
THERMOSTAT - PROVIDE BACK-BOX CONDUIT SUB-UP. REFERS TO MECHANICAL DRAWINGS FOR LOCATIONS		
CONDUIT UP		
CONDUIT DOWN		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	

DESCRIPTION	MOUNTING HEIGHT
<b>ABBREVIATIONS</b>	
UNLESS OTHERWISE NOTED	
OWNER FURNISHED CONTRACTOR INSTALLED	
OWNER FURNISHED- OWNER INSTALLED	
CONTRACTOR FURNISHED CONTRACTOR INSTALLED	
CONTRACTOR FURNISHED OWNER INSTALLED	
INDICATES EMERGENCY POWER	
CORROSIVE ENCLOSURE	
<b>OVERHEAD PAGING</b>	
PAGING SPEAKER: CEILING RECESSED	CLG
PAGING SPEAKER: WALL RECESSED	8'-0"
PAGING HORN: CEILING SURFACE MOUNT, WEATHER PROOF	CLG
PAGING HORN: WALL MOUNT, WEATHER PROOF	9'-0"
INTERCOM ADMINISTRATIVE CONSOLE OUTLET	18"
CALL INITIATION TELEPHONE HANDSET	46"
WALL VOLUME CONTROL	46"
PAGING SYSTEM CONTROL UNIT AMPLIFIER/TUNER CABINET	46"
<b>TWO-WAY EMERGENCY COMMUNICATIONS</b>	
TWO-WAY COMMUNICATION MASTER STATION	46"
TWO-WAY COMMUNICATION REMOTE CALL BOX	46"
<b>FLOOR OUTLETS/SPOKE-THROUGHS</b>	
FLOORBOX OR POKE THROUGH WITH DUPLEX OUTLET, AS SCHEDULED	FLOOR
FLOORBOX OR POKE THROUGH WITH QUAD OUTLET, AS SCHEDULED	FLOOR
FLOORBOX OR POKE THROUGH FOR FURNITURE CONNECTION, AS SCHEDULED	FLOOR
FLOORBOX OR POKE THROUGH, COMBINATION POWER AND LOW VOLTAGE CONNECTIVITY, AS SCHEDULED	FLOOR
<b>SECURITY</b>	
CARD READER	46"
D CONTROLLER	ABOVE CLG.
POWER SUPPLY	ABOVE CLG.

DESCRIPTION	MOUNTING HEIGHT
<b>DATA / VOICE</b>	
DATA OUTLET - TWO GANG EXTRA DEEP BACK BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING, U.N.O.	1'-6"
SAME AS DATA OUTLET EXCEPT MOUNTED AT 48" U.N.O. ON TELECOMM PLANS	
BLANK OUTLET - TWO GANG EXTRA DEEP BACK BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING, U.N.O.	
WALL MOUNTED WIRELESS ACCESS POINT OUTLET - TWO GANG EXTRA DEEP BACK BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING, U.N.O.	10'-0"
TELEVISION OUTLET - TWO GANG EXTRA DEEP BACK BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT STUBBED TO ACCESSIBLE CEILING, U.N.O.	SEE PLANS
NOTE: PROVIDE BLANK STAINLESS STEEL COVER PLATE FOR ALL UNUSED TELECOM OUTLETS. REFER TO T SERIES DRAWINGS FOR MORE INFORMATION.	
<b>FIRE ALARM</b>	
FIRE ALARM CONTROL PANEL	8'-6" TO TOP
PULL STATION - DOUBLE ACTION WITH STOPPER II COVER	48" TO LEVER
KEYED, LOOKED PULL STATION - DOUBLE ACTION. STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	48" TO LEVER
ADA COMPLIANT SPEAKER TYPE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL, CLG
ADA COMPLIANT SPEAKER TYPE AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG
ADA COMPLIANT VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG
PHOTO-ELECTRIC SMOKE DETECTOR	CLG
HEAT DETECTOR	CLG
DOOR HOLDER - WALL TYPE	WALL
REMOTE I.C.D. FIRE ALARM ANNUNCIATOR	54"
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	54"
REMOTE POWER SUPPLY FOR AUDIO/VISUAL DEVICES	46"
TRANSPONDER CABINET	46"
GRAPHICS DISPLAY TERMINAL	
FIRE ALARM CONTROL EXTENDER	
ISOLATION MODULE	WALL
ZONE ADDRESSABLE MODULE	
H.V.A.C. SMOKE DAMPER CONNECTION	
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"
FIREMAN'S PHONE JACK	4'-6"
FIREMAN'S KNOX BOX CONNECTION	
ADDRESSABLE RELAY MODULE	

[illegible]

1 D CONTROLLER DOOR ACCESS CONTROLS  
NO SCALE





10/20/22



**A**

6

10/20/22



THE LINE SHOWN ABOVE IS  
A FACILITY FOR RAILROADS AND  
IS NOT TO BE CONSIDERED AS  
A PART OF THE PROJECT.

E

D

C

B

A

10/24/2022 8:56:35 AM

1

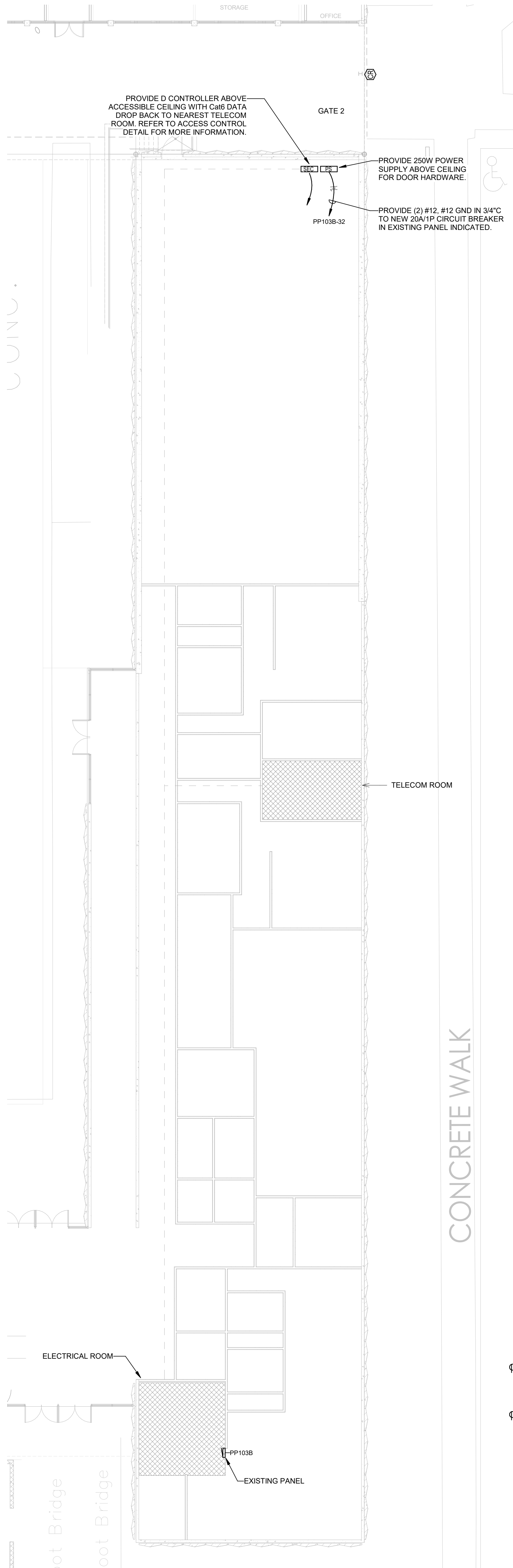
2

3

4

5

6



EXISTING PANELBOARD AND WIRING...																
PANEL: PP103B				MAINS TYPE: MCB				SCCR (KA): 10								
VOLTAGE: 208Y/120V/3P/4W				SPD:				AVAIL FAULT CURRENT (KA):								
AMPERES: 225 A				MOUNTING: SURFACE				SUPPLY FROM:								
CIRCUIT DESCRIPTION	WIRE	GND	C	OCF	P	OKT	A	B	C	OKT	P	OCF	C	GND	WIRE	CIRCUIT DESCRIPTION
(E) RECEPTACLES RM 125	20	1	1	1.1	1.1	1.1				2	1	20				(E) RECEPTACLES RM 106, 109
(E) RECEPTACLES RM 125	20	1	3				1.1	1.1		4	1	20				(E) RECEPTACLES RM 108
(E) RECEPTACLES RM 122, 124	20	1	5						1.1	1.1	6	1	20			(E) RECEPTACLES RM 108
(E) EXISTING LOAD	20	1	7	1.1	1.1					8	1	20				(E) RECEPTACLES RM 108
(E) RECEPTACLES RM 127	20	1	9				1.1	1.1		10	1	20				(E) WATER COOLER RM 100
(E) RECEPTACLES RM 125	20	1	11						1.1	1.1	12	1	20			(E) RECEPTACLES RM 116
(E) RECEPTACLES RM 111	20	1	13	1.1	1.1					14	1	20				(E) RECEPTACLES RM 112, 113
(E) RECEPTACLES RM 115	20	1	15				1.1	1.1		16	1	20				(E) RECEPTACLES RM 112, 113
(E) RECEPTACLES RM 120, 117	20	1	17						1.1	1.1	18	1	20			(E) RECEPTACLES RM 112
(E) RECEPTACLES RM 121	20	1	19	1.1	1.1					20	1	20				(E) RECEPTACLES RM 127
(E) RECEPTACLES RM 121	20	1	21				1.1	1.1		22	1	20				(E) RECEPTACLES RM 113
(E) RECEPTACLES RM 121	20	1	23						1.1	1.1	24	1	20			(E) WHIRLPOOL RM 112
(E) RECEPTACLES RM 116	20	1	25	1.1	1.1					26	1	20				(E) WHIRLPOOL RM 112
(E) RECEPTACLES RM 116	20	1	27				1.1	1.1		28	1	20				(E) ICE MAKER
(E) RECEPTACLE RM	20	1	29						1.1	1.1	30	1	20			(E) EXISTING LOAD
(E) EXISTING LOAD	20	1	31	1.1	0.3					32	1	20				EQUIP - GATE 2 POWER SUPPLY
(E) EXISTING LOAD	20	1	33				1.1	0.0		34	--	--	--	--	--	SPACE
(E) EXISTING LOAD	20	1	35						1.1	0.0	36	--	--	--	--	SPACE
(E) EXISTING LOAD	20	1	37	1.1	0.0					38	--	--	--	--	--	SPACE
(E) EXISTING LOAD	20	1	39				1.1	0.0		40	--	--	--	--	--	SPACE
SPACE	--	--	--	--	--	41			0.0	0.0	42	--	--	--	--	SPACE
TOTAL LOAD (kVA):				13.2 kVA				13.0 kVA				11.9 kVA				
TOTAL CURRENT (A):				111 A				109 A				99 A				
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS								
EQUIP		250 VA		100.00%		250 VA		TOTAL CONNECTED LOAD: 38 kVA								
REC		37800 VA		63.23%		23900 VA		TOTAL ESTIMATED DEMAND: 24 kVA								
								TOTAL CONNECTED CURRENT: 106 A								
								TOTAL ESTIMATED DEMAND CURRENT: 67 A								
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P																



USE APPROPRIATE  
SCHEDULED SYMBOLS  
FOR ALL ELECTRICAL  
EQUIPMENT AND  
WIRING

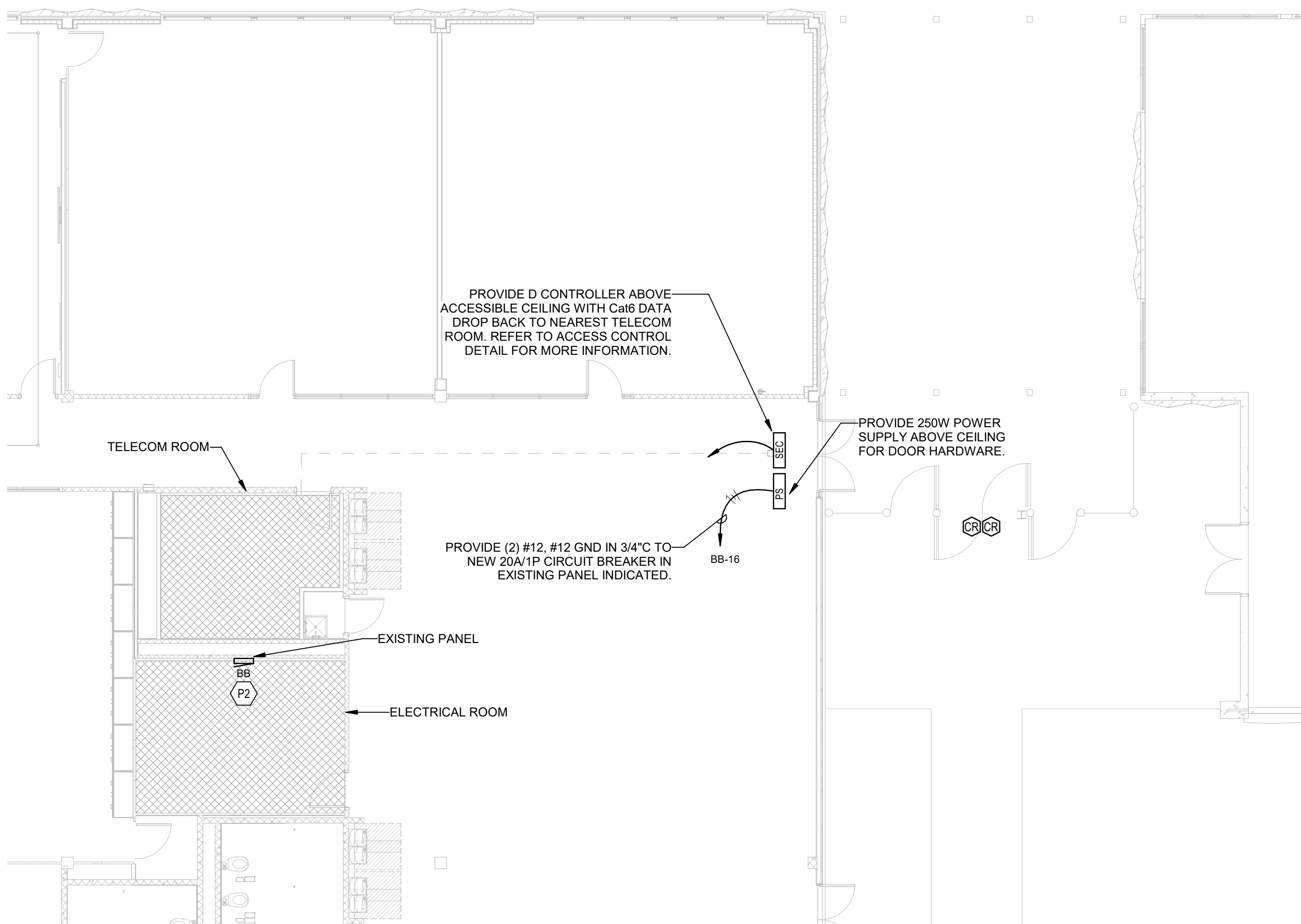
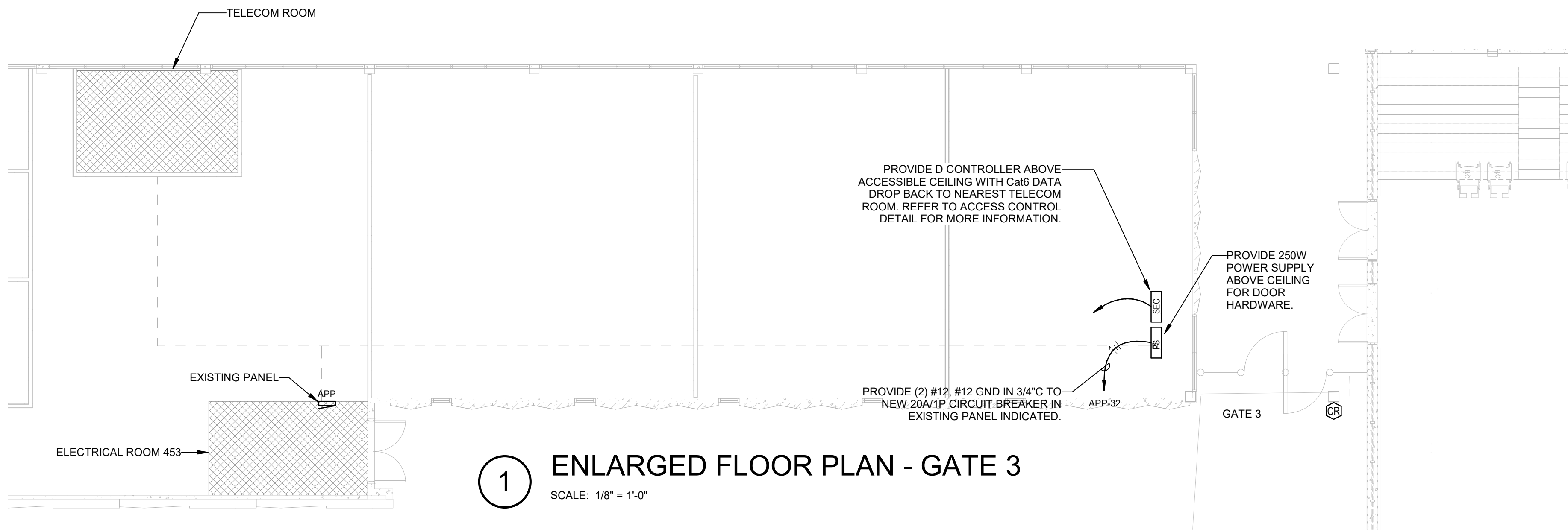
E

D

C

B

A



GENERAL NOTES (POWER/SYSTEMS):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RUN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100.12(D.4) (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING.

KEYNOTES

- P2 EXISTING POWER PANEL "B2" PREVIOUS LOAD WAS 8300W, 23A. ADDING NEW LOAD OF 500W RESULTING IN NEW LOAD ON PANEL BEING 8700W, OR 24A.



CMS

LS3P

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CMS Garinger HS - Security  
Gate Modifications  
1100 Eastway Dr. Charlotte, NC 28205  
LS3P PROJECT: 9201-202550

PANELBOARD AND WIRING SCHEDULE																	
PANEL: APP							MAINS TYPE: MCB					SCCR (KA): 10					
VOLTAGE: 208Y/120V, 3P, 4W							SPD:					AVAIL FAULT CURRENT (KA):					
AMPERES: 100 A							MOUNTING: SURFACE					SUPPLY FROM:					
CIRCUIT DESCRIPTION	WIRE	GND	C	OC	P	CKT	A	B	C	CKT	P	OC	C	GND	WIRE	CIRCUIT DESCRIPTION	
(E) RECEPTACLES MECH RM					20	1	1	1.1	1.1		2	1	20			(E) RECEPTACLES RM 448	
(E) RECEPTACLES RM 447					20	1	3		1.1	1.1		4	1	20		(E) RECEPTACLES RM 450	
(E) RECEPTACLES RM 446					20	1	5					6	1	20		(E) RECEPT RM 450, BATH, BOOK	
(E) RECEPTACLES RM 444					20	1	7	1.1	1.1			8	1	20		(E) EWC	
(E) REC MENS, WOMENS BATH...					20	1	9		1.1	1.1		10	1	20		(E) WIREMOLD RM 407	
(E) RECEPTACLES RM 443					20	1	11					12	1	20		(E) WIREMOLD RM 407	
(E) LTG - OVERHANG					20	1	13	0.2	1.1			14	1	20		(E) WIREMOLD RM 408	
(E) RECEPTS - CLASSROOM 406					20	1	15		1.1	1.1		16	1	20		(E) WIREMOLD RM 408	
(E) RECEPTS - CLASSROOM 407					20	1	17			1.1	1.1	18	1	20		(E) WIREMOLD BOOKSTORE	
(E) RECEPTS - CLASSROOM 408					20	1	19	1.1	1.1			20	1	20		(E) WIREMOLD BOOKSTORE	
(E) INTERCOM HEAD-END EQUIP					20	1	21		0.8	1.1		22	1	20		(E) WIREMOLD RM 406	
(E) RECEPTS - TELCO RM					20	1	23			1.1	1.1	24	1	20		(E) WIREMOLD RM 406	
(E) RECEPTS - TELCO RM					20	1	25	1.1	1.1			26	1	20		(E) AHU CONT	
(E) RECEPTS - TELCO RM					20	1	27		1.1	1.1		28	1	20		(E) AHU CONT	
(E) BATH FANS					20	1	29			0.6	1.1	30	1	20		(E) GATE	
(E) INTERCOM EQUIP P.A.					20	1	31	0.8	0.3			32	1	20		EQUIP - GATE 3 - POWER PACK	
(E) CONFERENCE ROOM					20	1	33		1.1	0.0		34	--	--	--	SPACE	
(E) CONFERENCE ROOM					20	1	35			1.1	0.0	36	--	--	--	SPACE	
EXISTING LOAD	-	-	100	3	39		0.7	0.0	0.0			38	--	--	--	SPACE	
									0.0	0.0			40	--	--	--	SPACE
												42	--	--	--	SPACE	
TOTAL LOAD (KVA):							11.0 KVA		11.6 KVA		11.4 KVA						
TOTAL CURRENT (A):							91 A		97 A		96 A						
LOAD CLASSIFICATION							CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS				
EQUIP							2930 VA		100.00%		2930 VA		TOTAL CONNECTED LOAD: 34 KVA				
HVAC							2760 VA		100.00%		2760 VA		TOTAL ESTIMATED DEMAND: 25 KVA				
LTNG							200 VA		100.00%		200 VA		TOTAL CONNECTED CURRENT: 94 A				
REC							28080 VA		67.81%		19040 VA		TOTAL ESTIMATED DEMAND CURRENT: 69 A				
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.																	

PANELBOARD AND WIRING SCHEDULE																					
PANEL: BB							MAINS TYPE: MCB					SCCR (KA): 10									
VOLTAGE: 208Y/120V, 3P, 4W							SPD:					AVAIL FAULT CURRENT (KA):									
AMPERES: 100 A							MOUNTING: SURFACE					SUPPLY FROM:									
CIRCUIT DESCRIPTION	WIRE	GND	C	OC	P	CKT	A	B	C	CKT	P	OC	C	GND	WIRE	CIRCUIT DESCRIPTION					
(E) MAIN	--	--	--	100	3	1	0.0	1.1			2	1	20			(E) REC IT TRACK					
					3			0.0	1.1		4	1	20			(E) REC IT TRACK					
					5				0.0	1.1		6	1	20			(E) REC IDF				
(E) SPARE	--	--	20	3	9	7	0.0	1.1			8	1	20			(E) REC IDF					
				11				0.0	1.1		10	1	20			(E) REC IDF					
(E) REC CLASSROOM					20	1	13	1.1	1.1			12	1	20		(E) REC-ROOF					
(E) REC CLASSROOM					20	1	15		1.1	0.3		14	1	20		(E) SECURITY PANEL					
(E) REC CLASSROOM					20	1	17				1.1	0.5	18	1	20	(E) EQUIP. - GATE 4 POWER SUPPLY					
(E) REC CLASSROOM					20	1	19	1.1	0.5			20	1	20		(E) CAMERA					
(E) REC CLASSROOM					20	1	21		1.1			22				(E) CAMERA					
						23						24									
TOTAL LOAD (KVA):							5.9 KVA					4.6 KVA					3.7 KVA				
TOTAL CURRENT (A):							59 A					39 A					31 A				
LOAD CLASSIFICATION	CONNECTED LOAD				DEMAND FACTOR		DEMAND FACTOR	ESTIMATED DEMAND								PANEL TOTALS					
EQUIP	1250 VA				100.00%			1250 VA								TOTAL CONNECTED LOAD: 14 KVA					
REC	12960 VA				88.58%			11480 VA								TOTAL ESTIMATED DEMAND: 13 KVA					
																TOTAL CONNECTED CURRENT: 39 A					
																TOTAL ESTIMATED DEMAND CURRENT: 35 A					
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.																					

SHEET NAME:  
ENLARGED PLAN -  
GATES 3 & 4

ORIG SUBMISSION: 10/28/2022

SHEET:  
E303

10/24/2022 8:56:39 AM

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