

# BUILDING TECHNOLOGY III

## CASE STUDY I

### DRAWING LIST:

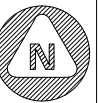
1. AMERICANS WITH DISABILITIES ACT.  
ADA
2. 285 JAY STREET ZONING DIAGRAM
3. PARTITION TYPES
4. CORE STAIR STUDIES
5. CORE ELEVATOR STUDIES



BUILDING TECH III

Address

285 JAY STREET  
BROOKLYN NY



No. Description Date

No.	Description	Date

BUILDING TECH III

Project number Project Number  
 Date 04-19-13  
 Drawn by Santiago Cortes  
 Professor Name KING  
 Checked by Checker

Scale 1/8" = 1'-0"

COVER

Grade 1/8" = 1'-0"

SITE ADDRESS: 285 JAY STREET,  
BROOKLYN NY 11201

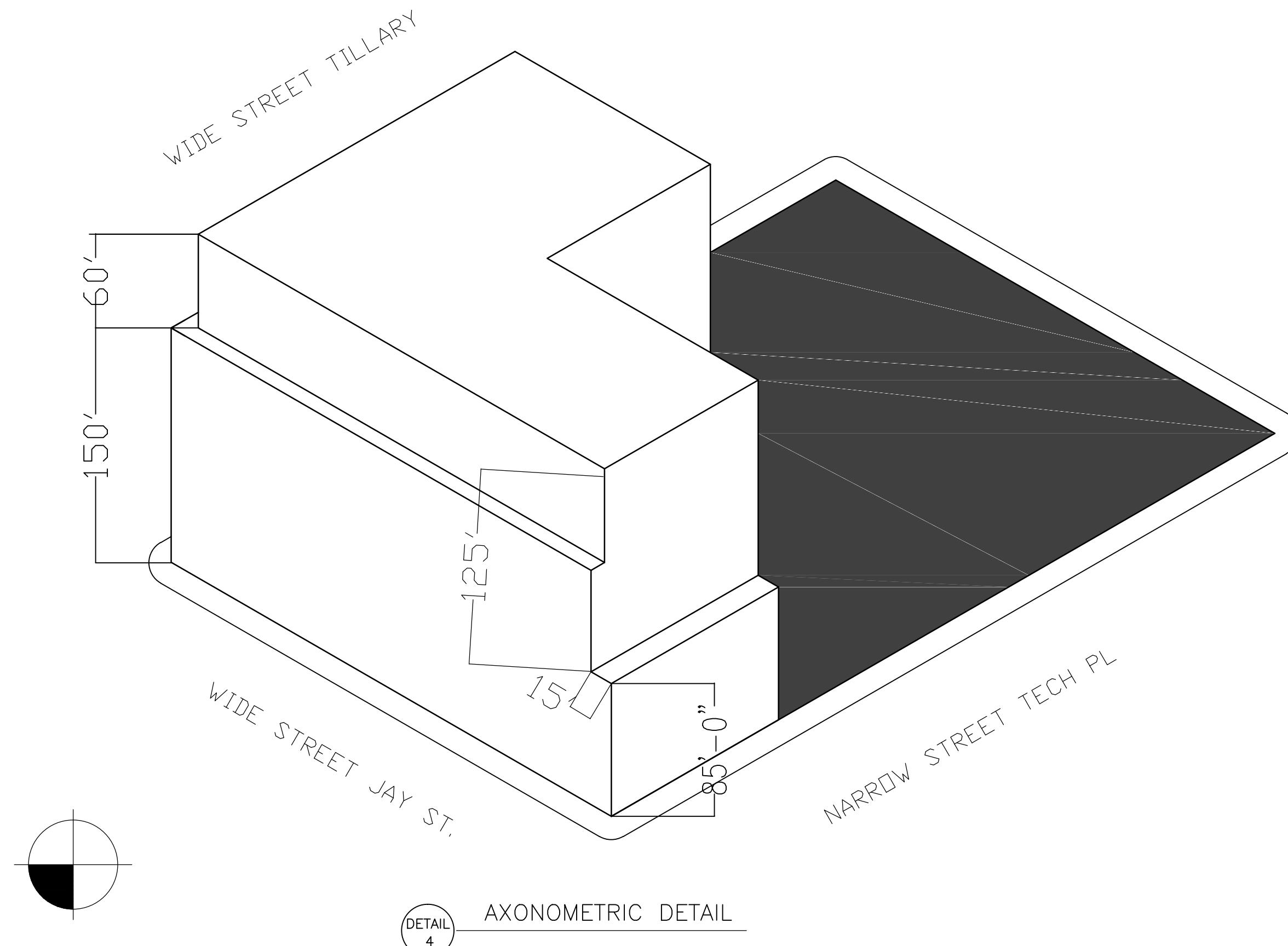
PUBLIC FACILITY/ INSTITUTION

- BLOCK: 131 LOT :1
- LOT AREA: 139,810 SQFT. (490.42'\*325.25')
- NUMBER OF BUILDINGS: 2
- TOTAL UNITS: 3
- ZONING DISTRICT: C6-4
- FLOOR AREA RATIO: 1.54
- MAX. FAR: 10
- OCCUPANCY GROUP: 3
- ZONING MAP #: 12D
- BUILDING HEIGHT: 210'
- USE GROUP: 3-4
- STREET WALL HEIGHT:  
WIDE STREET 150'- NARROW 85'
- SETBACKS: 10'
- SKY EXPOSURE PLANE: 5.1 TO

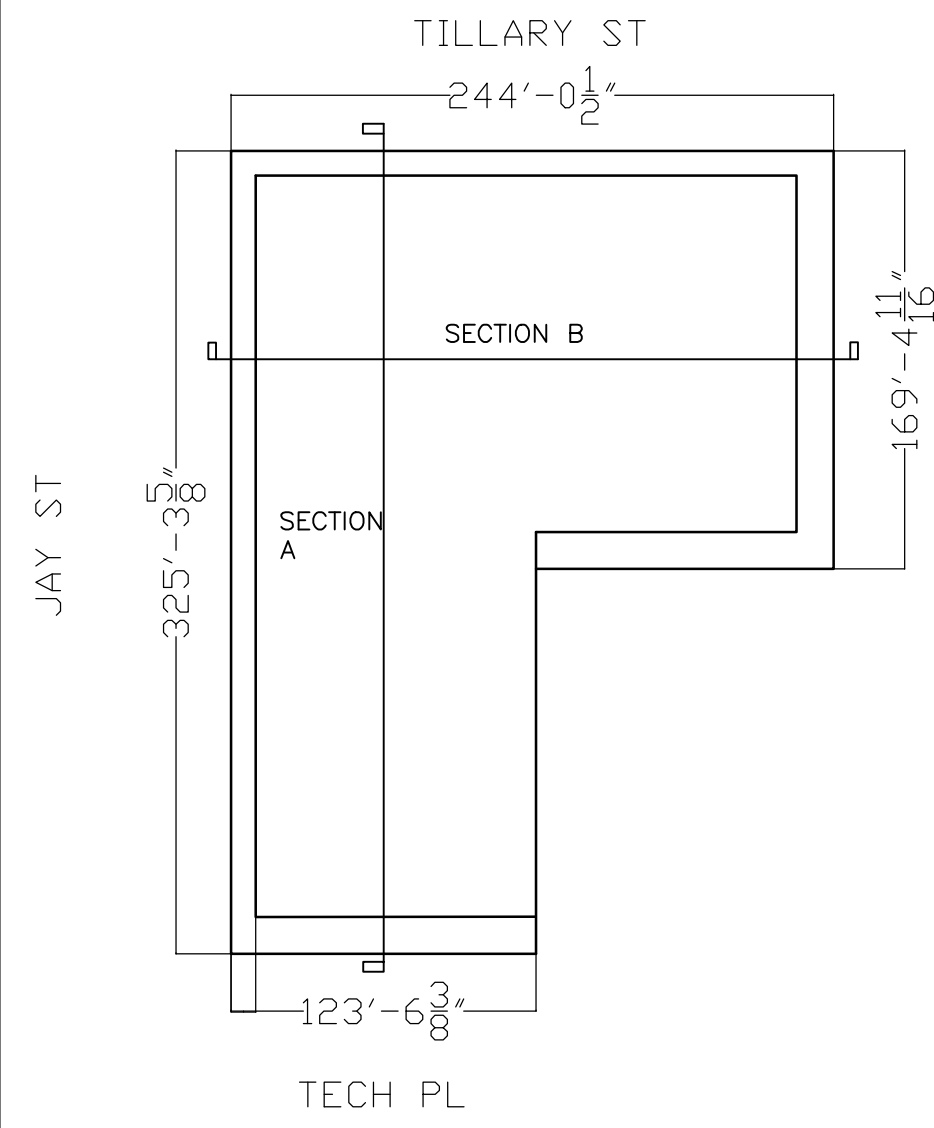
REQUIRE SETBACKS  
FRONT: 10' AS PER ZR 33-442  
& ZR 101-222  
REAR: 15' AS PER ZR 33-442  
& ZR 101-222  
SIDE: 15' AS PER ZR 33-442  
& ZR 101-222

125' STREET WALL  
AS PER ZR 101-222  
MIN/MAX 60'/125'  
MAX BUILDING HEIGHT 185'

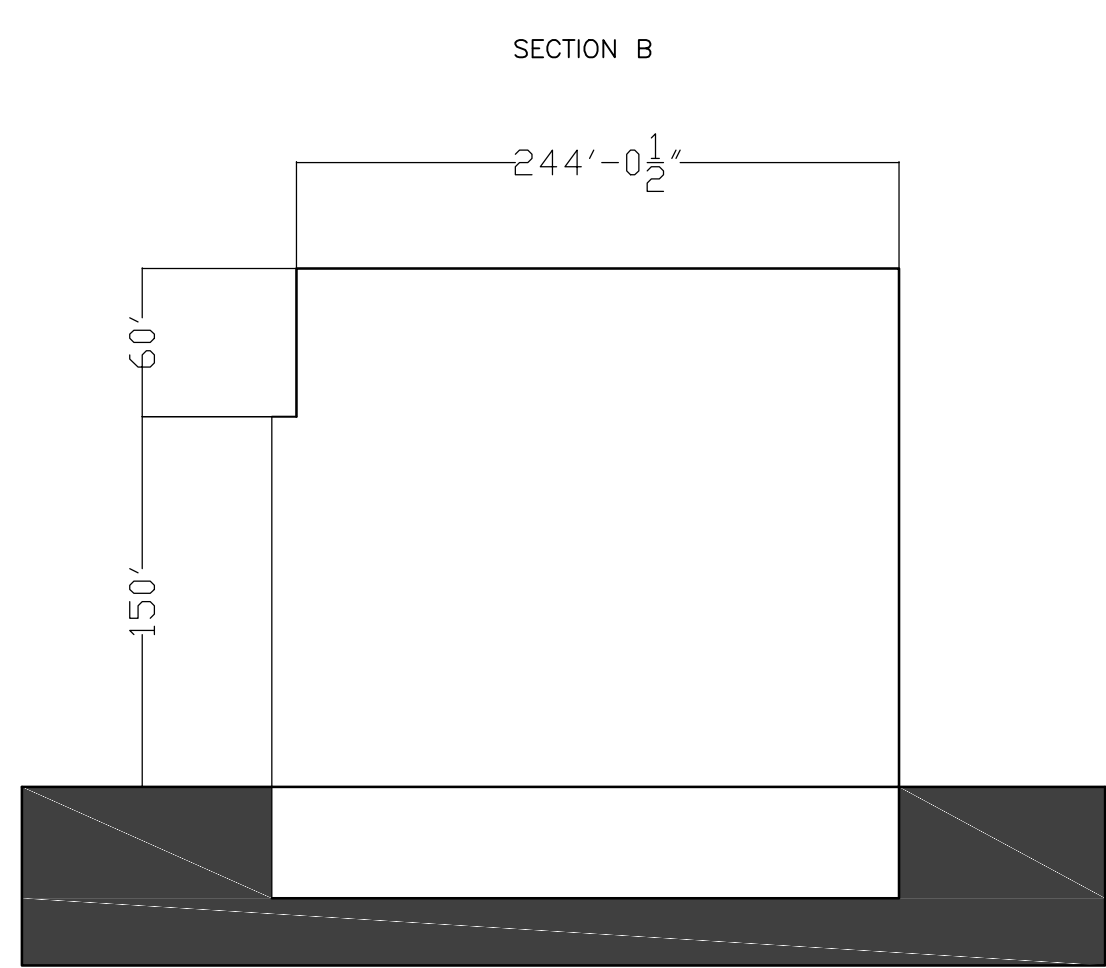
SKY EXPOSURE PLANE  
AS PER ZR 33-432  
NARROW/WIDE 3.7/7.6



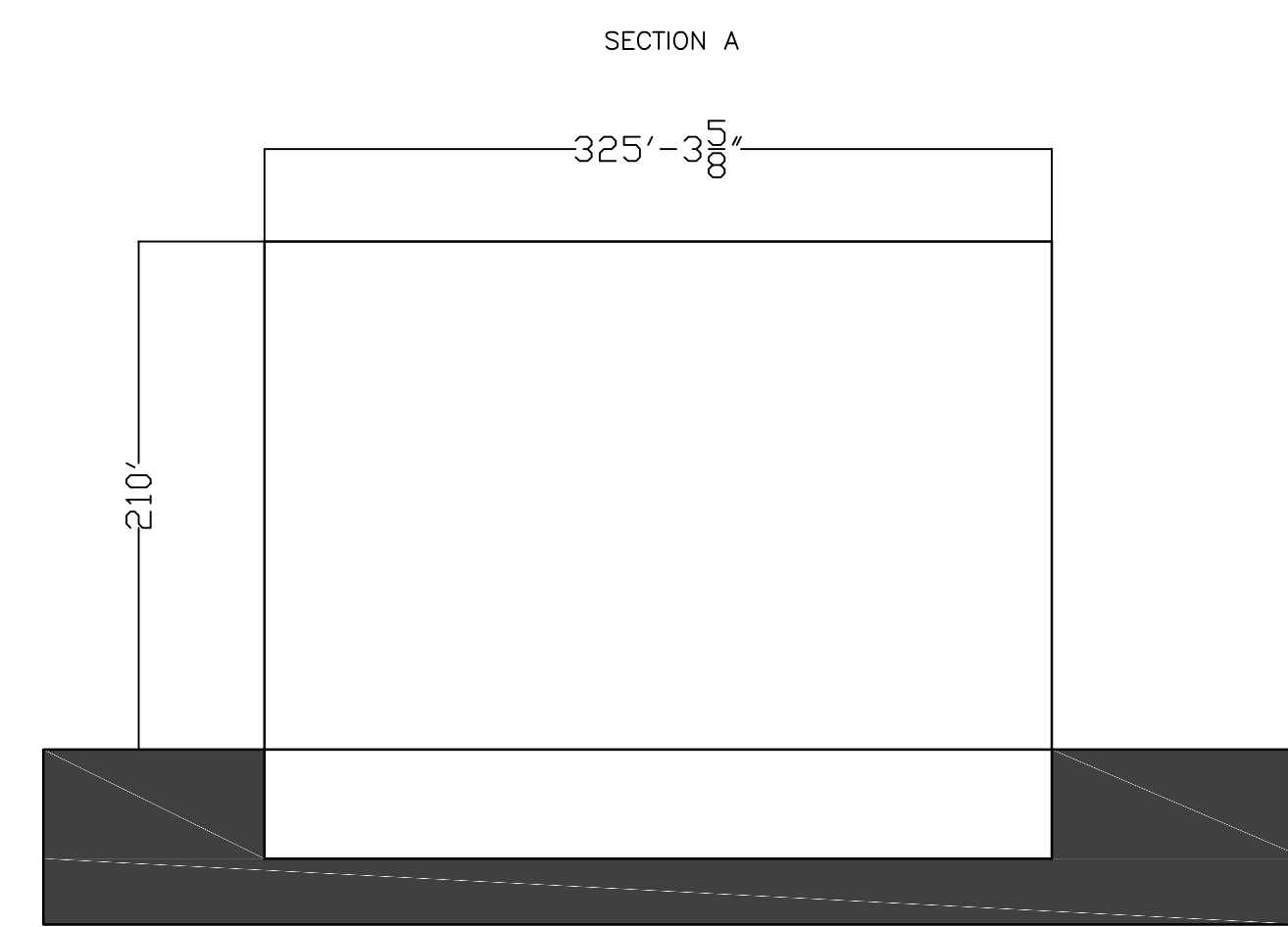
AXONOMETRIC DETAIL  
DETAIL 4



SITE PLAN DIAGRAM  
DETAIL 3



TECH ST SECTION CUT  
DETAIL 2

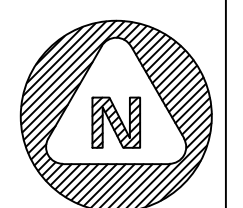


TYLLARY ST SECTION CUT  
DETAIL 1



ZONING

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Professor Name \_\_\_\_\_ KING

Checked by \_\_\_\_\_ Checker

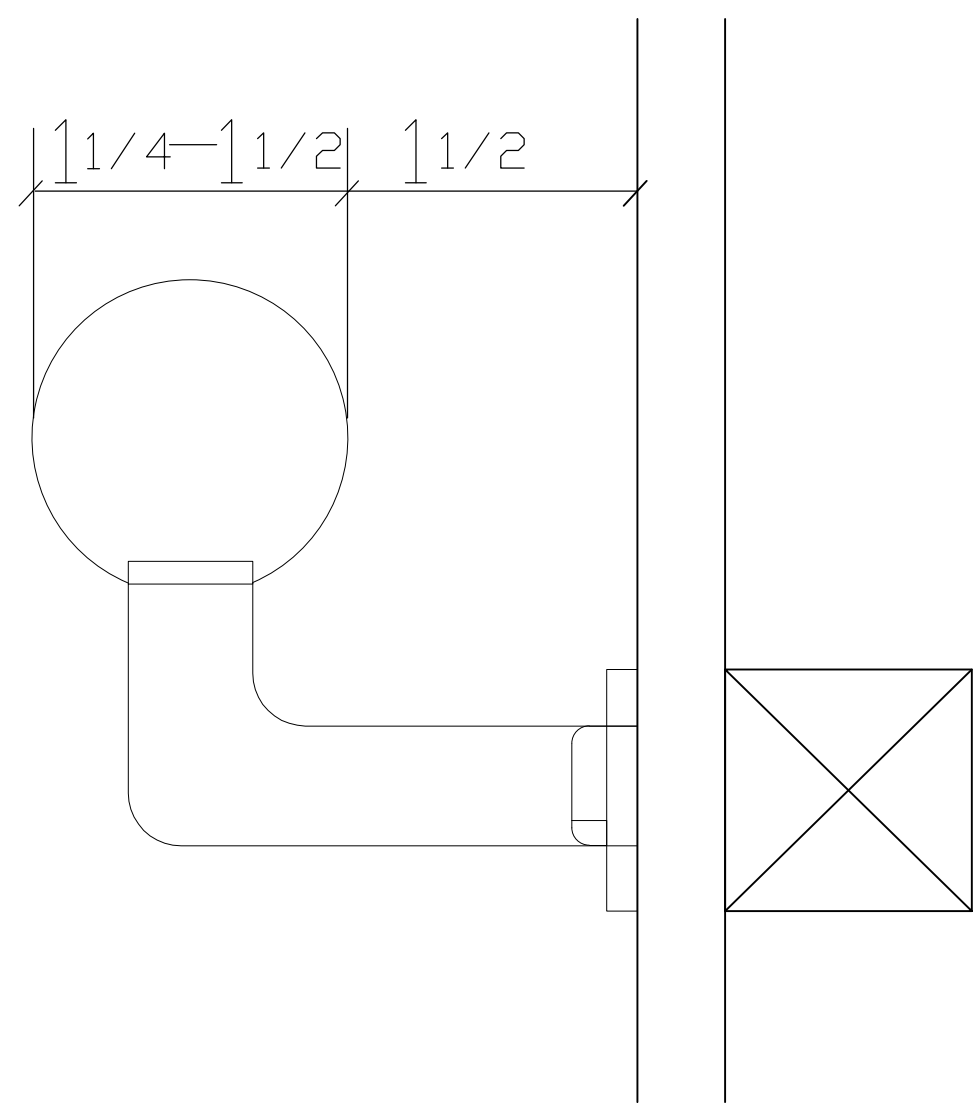
Z-200

Scale 1/8" = 1'-0"

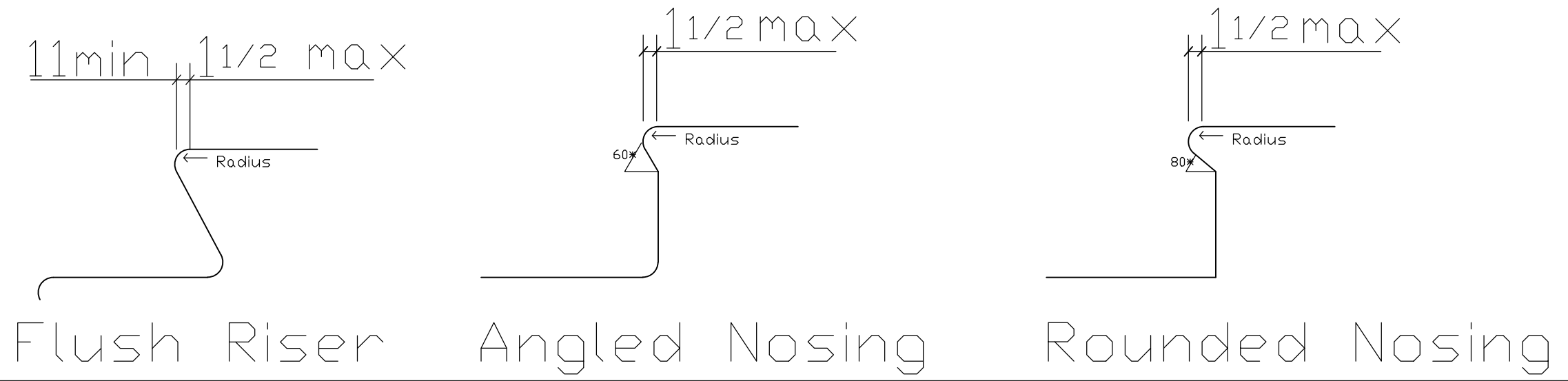
ZONING

Grade 1/8" = 1'-0"

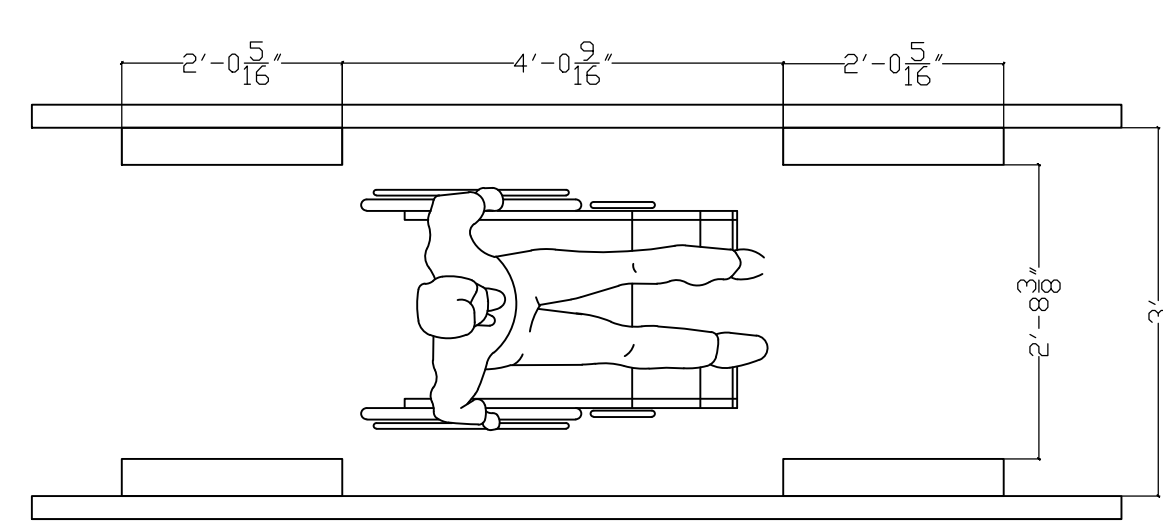
# HANDRAIL DIMS



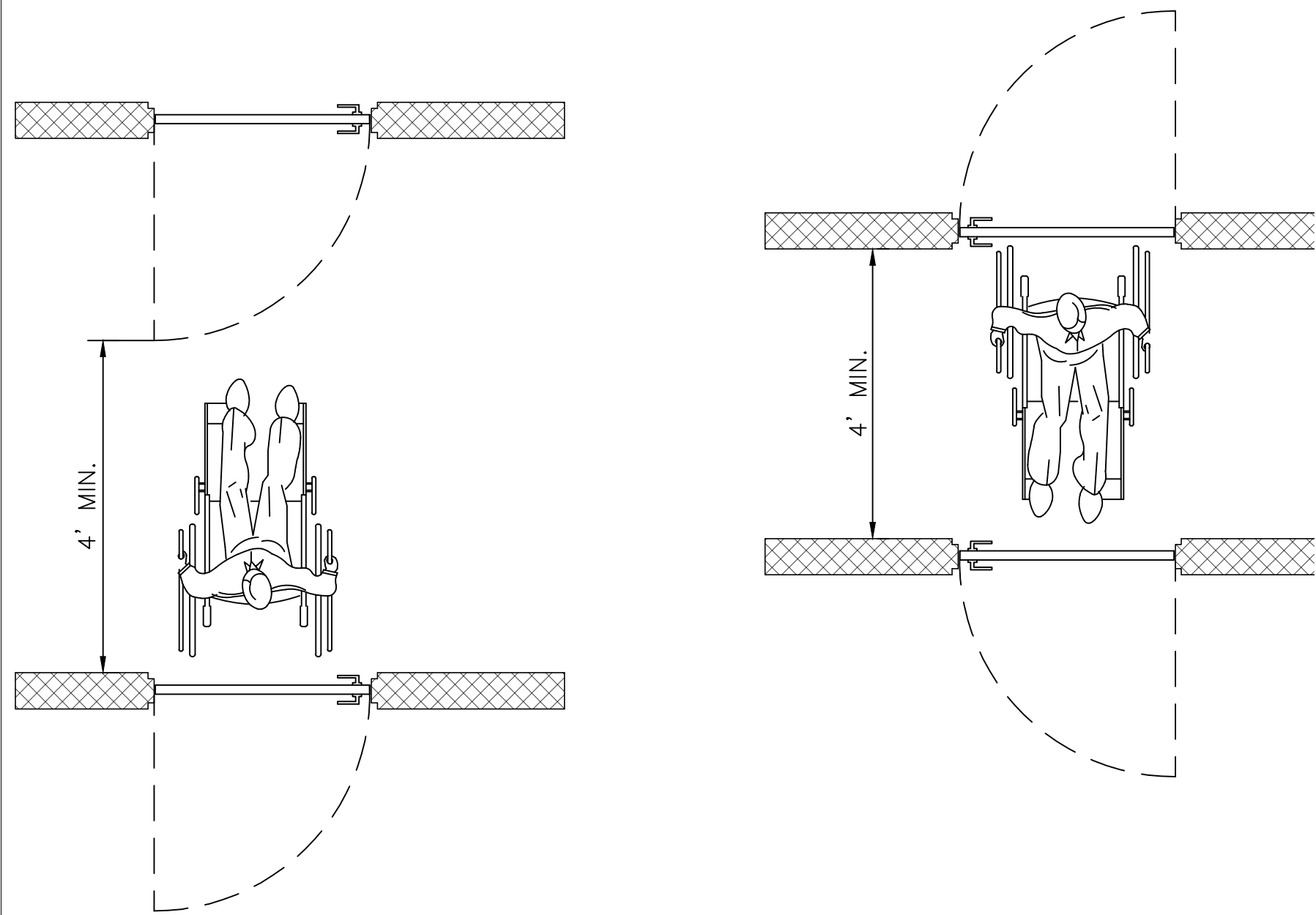
# STAIRS MINIMUM REQUIREMENTS



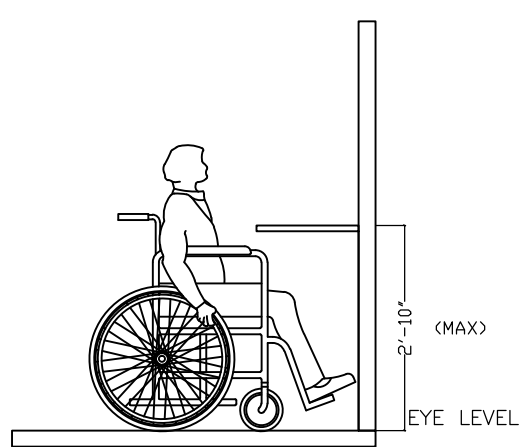
# MINIMUM DISTANCE REQUIREMENTS FOR HALLWAYS



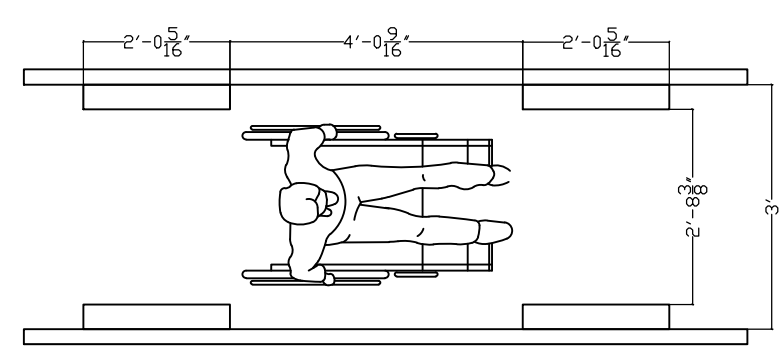
# TWO HINGED DOORS IN SERIES



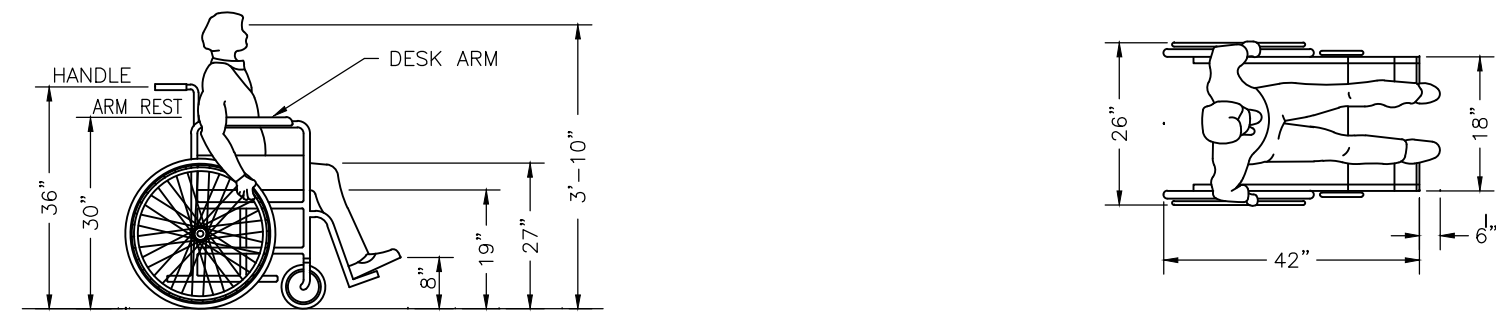
# MAXIMUM HEIGHT FOR TABLES, COUNTERS, ETC



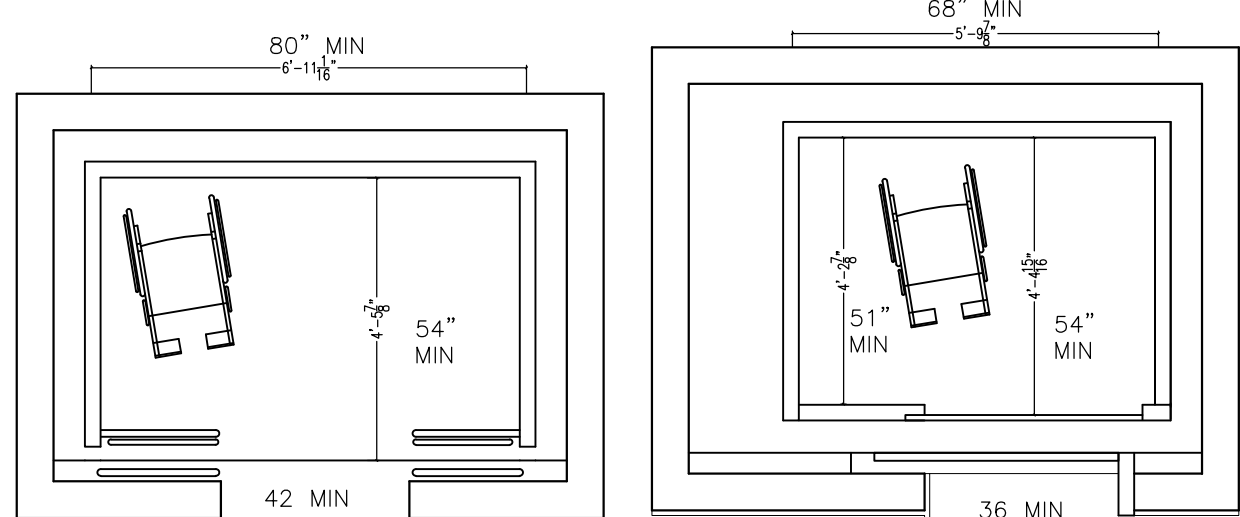
# MINIMUM DISTANCE REQUIREMENTS FOR HALLWAYS



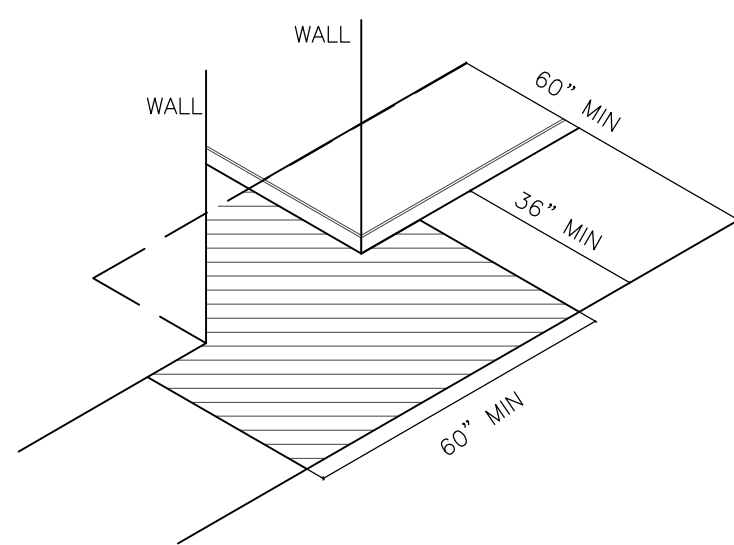
# WHEELCHAIRS DETAIL



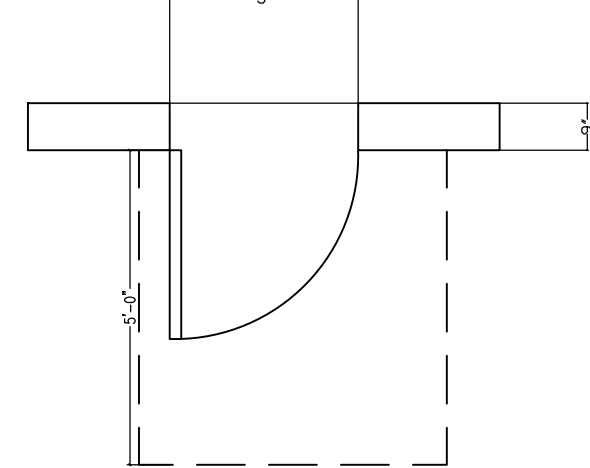
# ELEVATORS - MINIMUM REQUIREMENTS



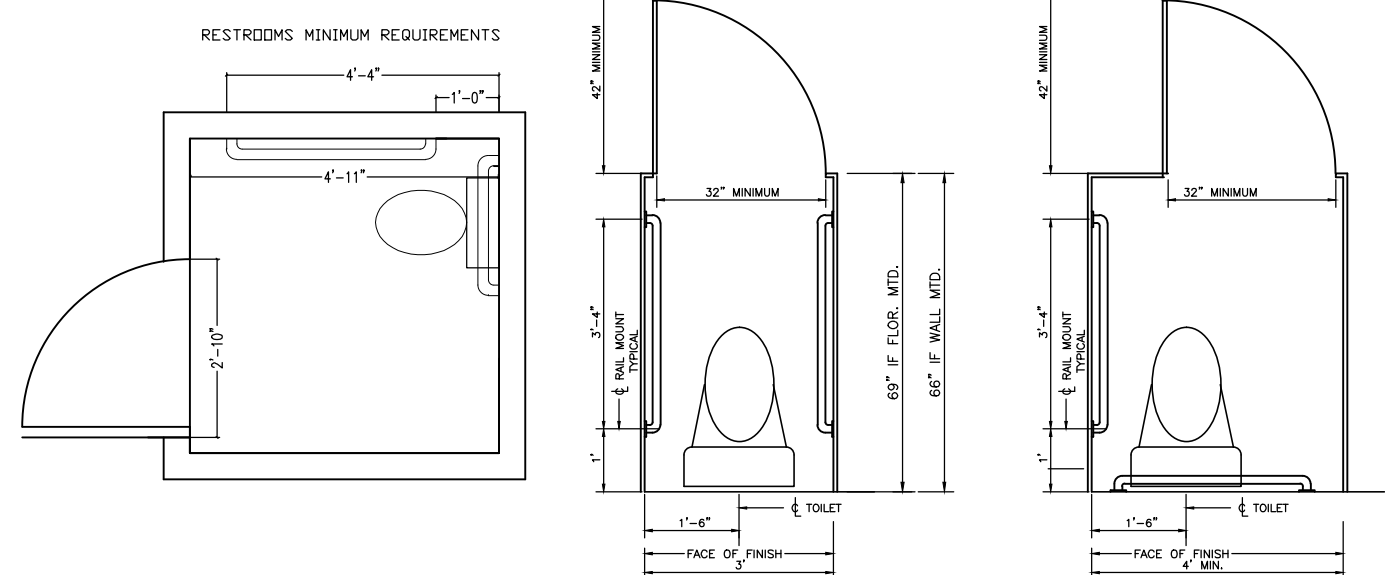
# MINIMUM DISTANCE BETWEEN HALLWAYS



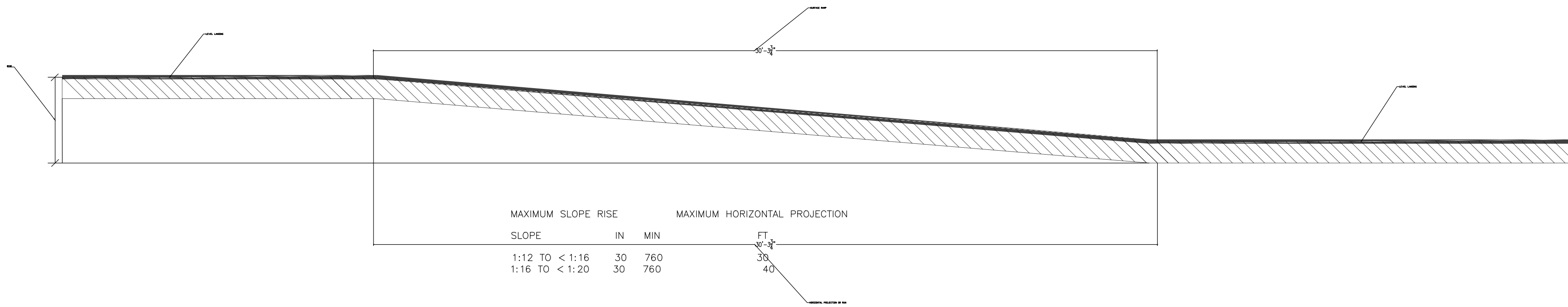
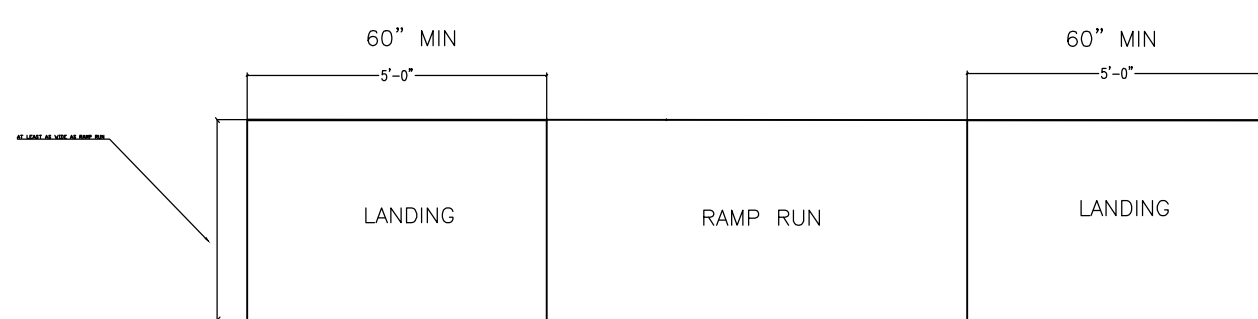
# DOOR ENTRANCE MINIMUM REQUIREMENTS



# ALTERNATE STALLS

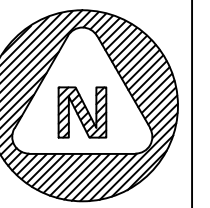


# RAMPS



## ADA STUDIES

Address 285 JAY STREET  
BROOKLYN NY



No.	Description	Date

## ADA STUDIES

Project number	Project Number
Date	Issue Date
Drawn by	Santiago Cortes
Professor Name	KING
Checked by	Checker

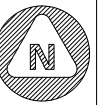
**A-200**  
Scale 1/8" = 1'-0"

Grade 1/8" = 1'-0"



PARTITION TYPES

Address  
285 JAY STREET  
BROOKLYN NY



No.	Description	Date

PARTITION TYPES

Project number \_\_\_\_\_ Project Number  
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Drawn by \_\_\_\_\_ Santiago Cortes  
Professor Name \_\_\_\_\_ KING

Checked by \_\_\_\_\_ Checker

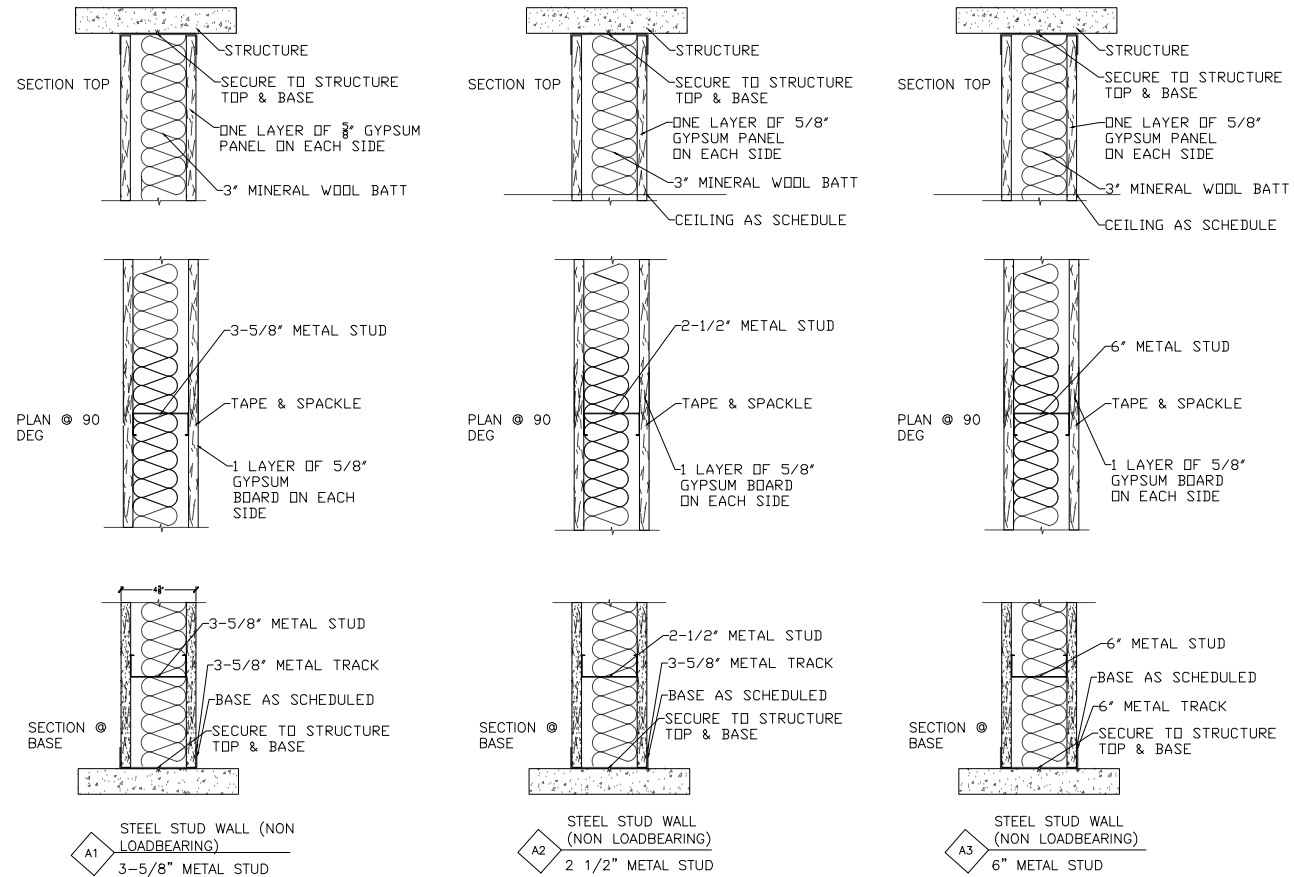
P-200

Scale 1/8" = 1'-0"

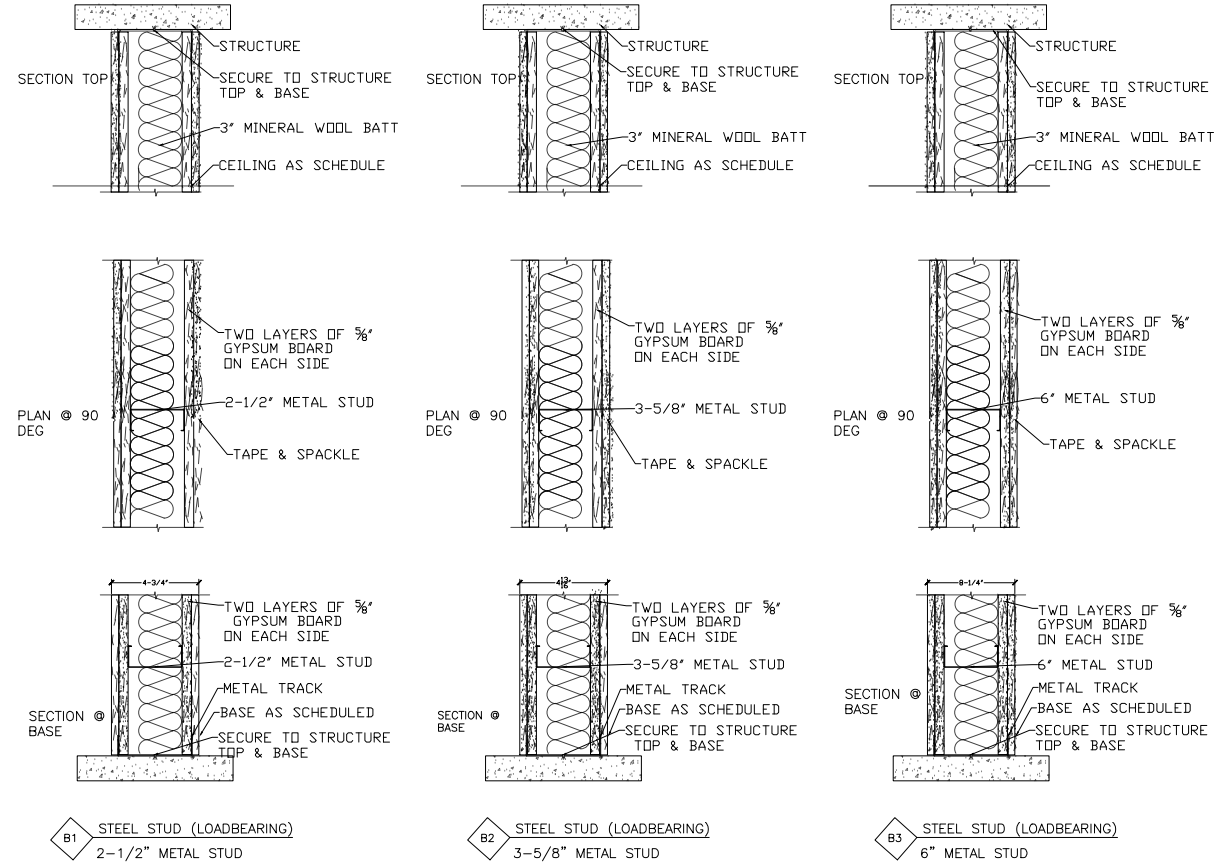
PARTITIONS

Grade 1/8" = 1'-0"

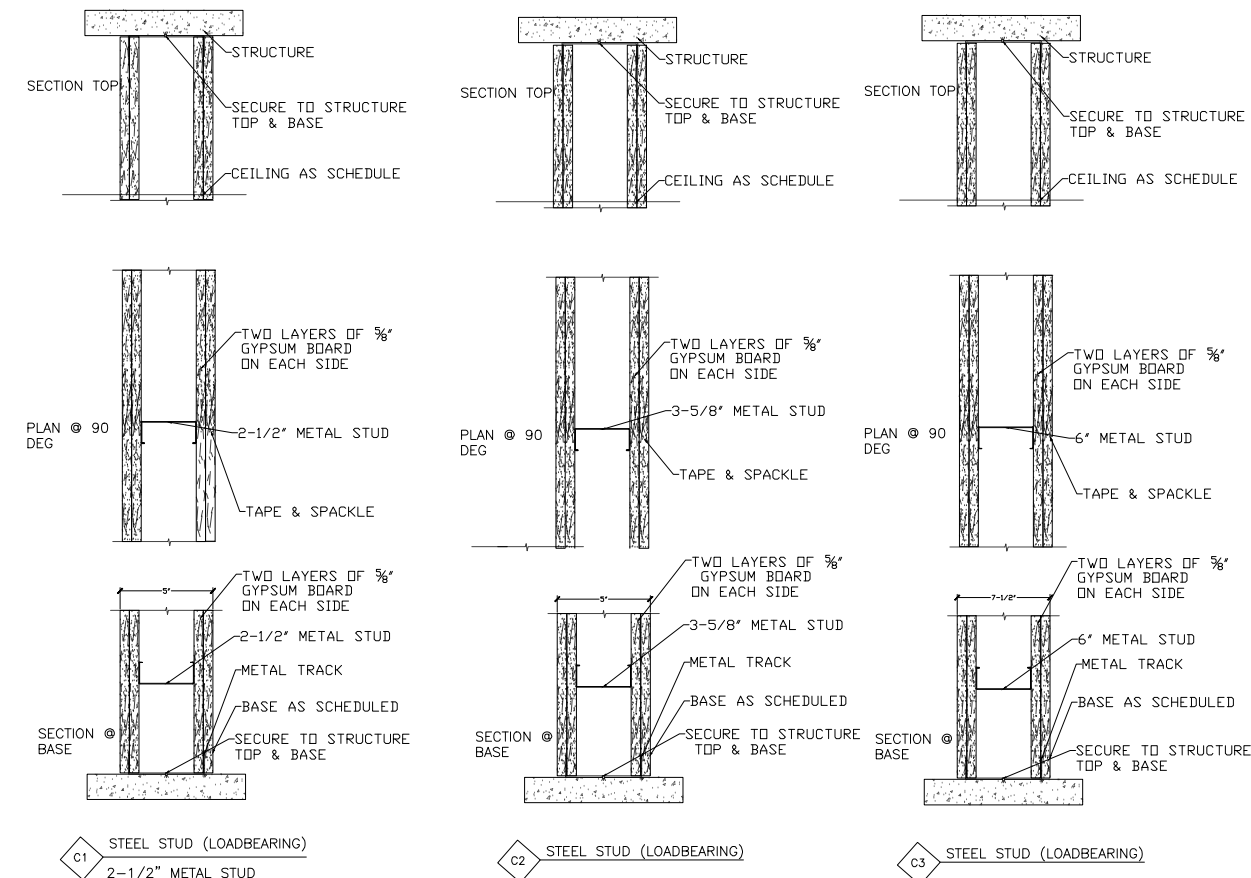
ONE HOUR FIRE RATED GYPSUM WALL



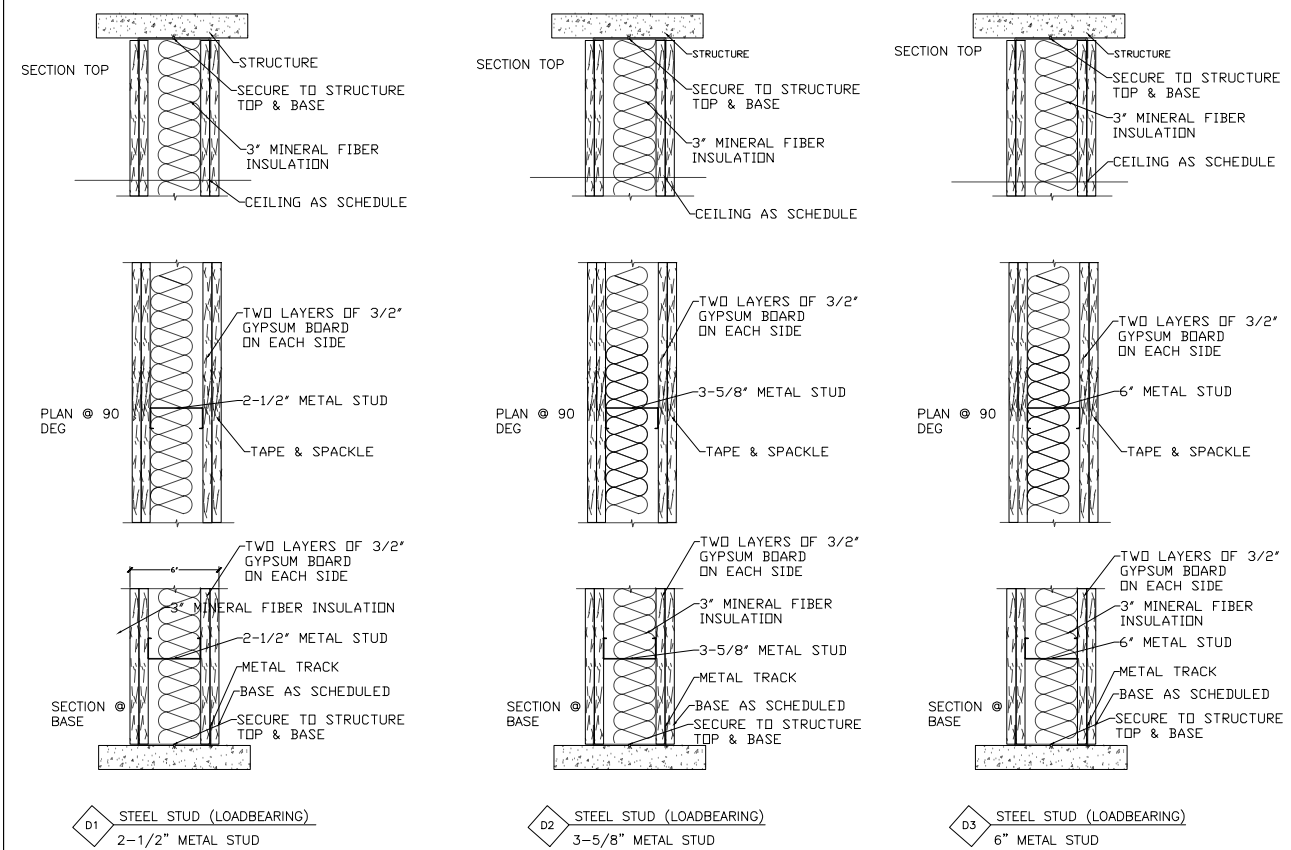
TWO HOUR FIRE RATED



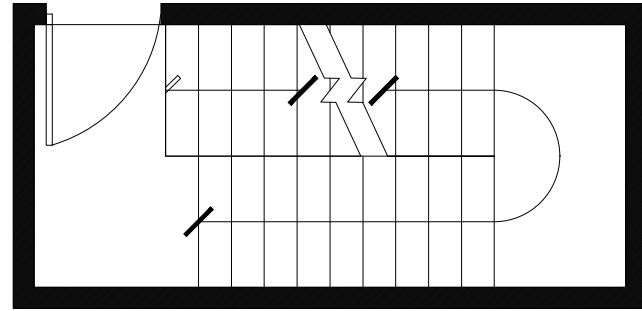
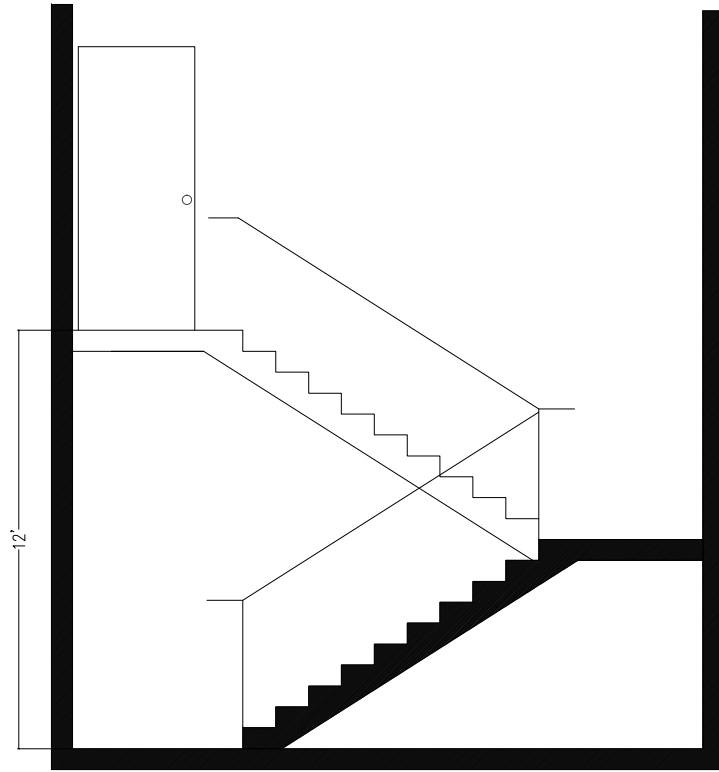
TWO HOUR FIRE RATED LOADBEARING



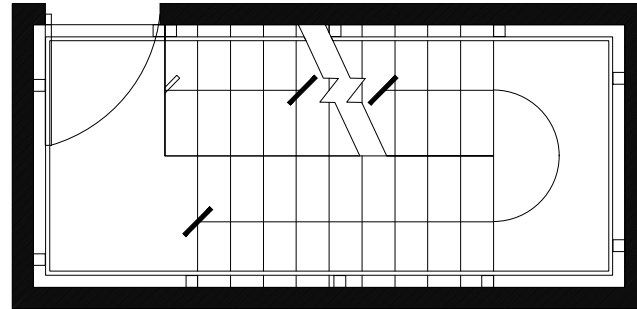
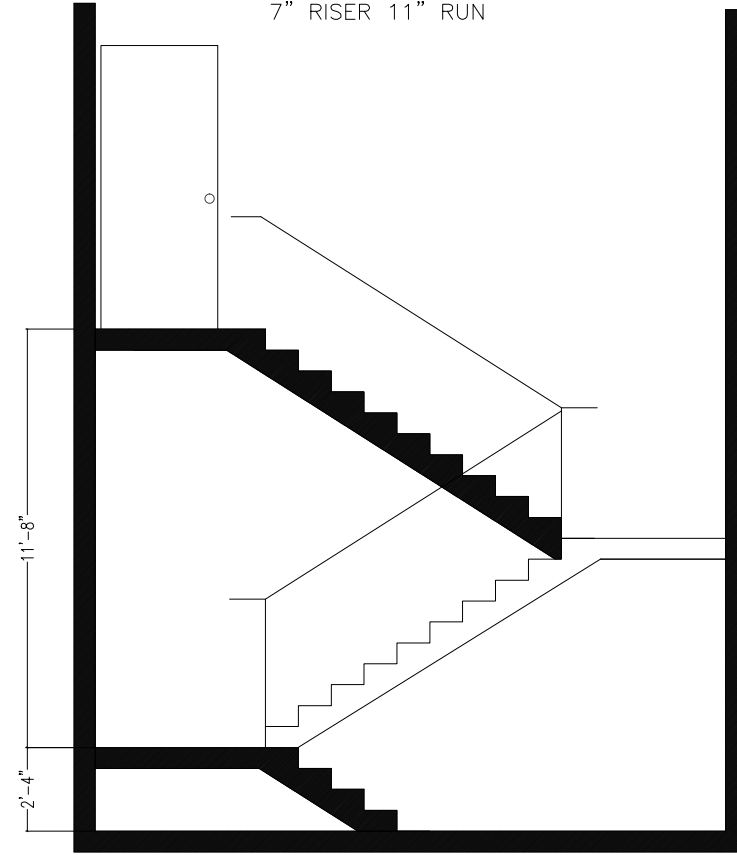
FOUR HOUR FIRE RATED LOAD-BEARING



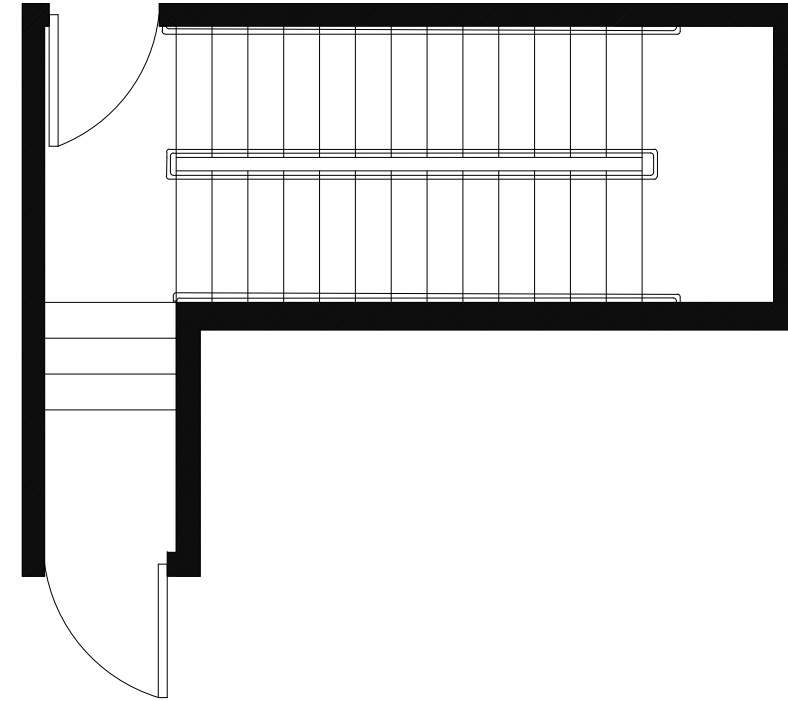
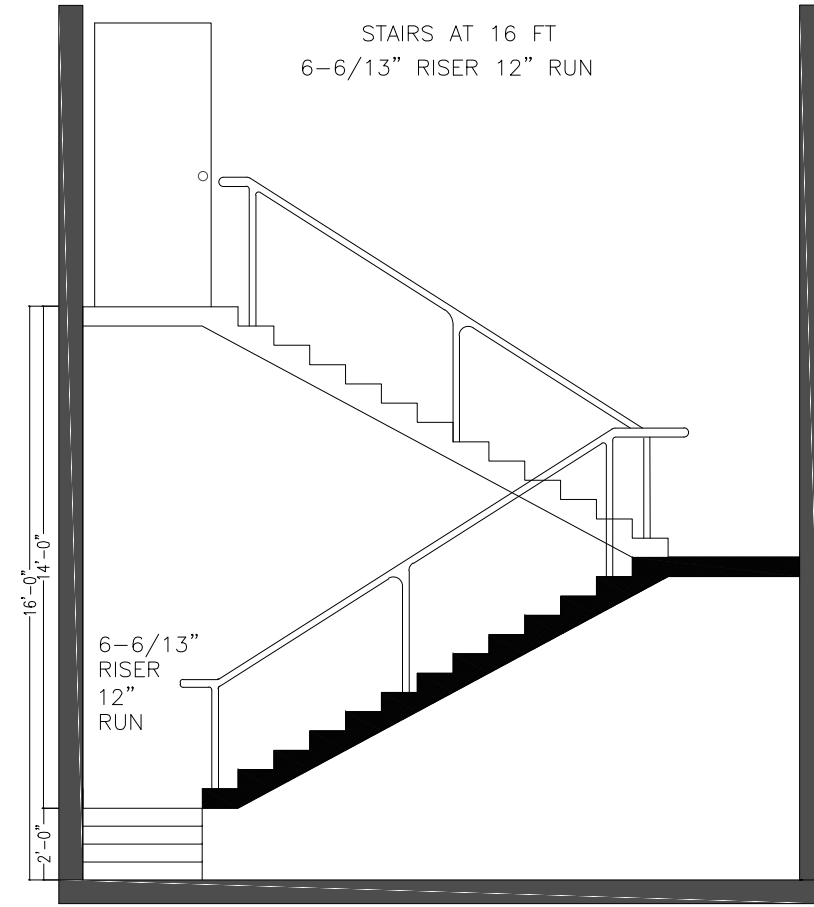
STAIRS AT 12 FT  
7" RISER 11" RUN



STAIRS AT 14 FT  
7" RISER 11" RUN



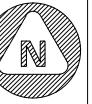
STAIRS AT 16 FT  
6-6/13" RISER 12" RUN



CORE STAIRS

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Drawn by \_\_\_\_\_ Drawn by \_\_\_\_\_ Santiago Cortes  
Professor Name \_\_\_\_\_ Professor Name \_\_\_\_\_ KING

Checked by \_\_\_\_\_ Checker \_\_\_\_\_

CS-201

Scale \_\_\_\_\_ Scale \_\_\_\_\_ 1/8" = 1'-0"

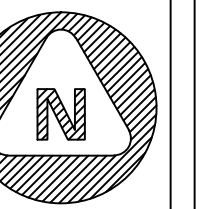
COVER

Grade \_\_\_\_\_ Grade \_\_\_\_\_ 1/8" = 1'-0"



CORE STAIRS

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 Drawn by \_\_\_\_\_ Drawn by Santiago Cortes  
 Professor Name \_\_\_\_\_ Professor Name KING

Checked by \_\_\_\_\_ Checker  
 CS-202

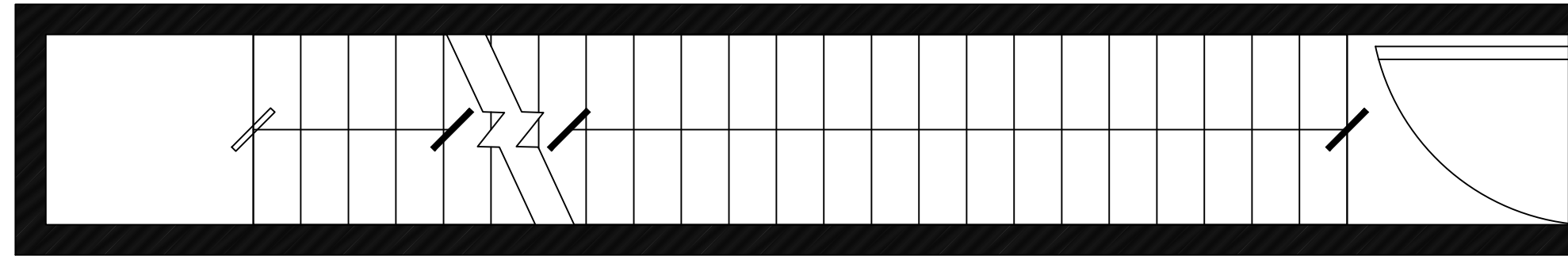
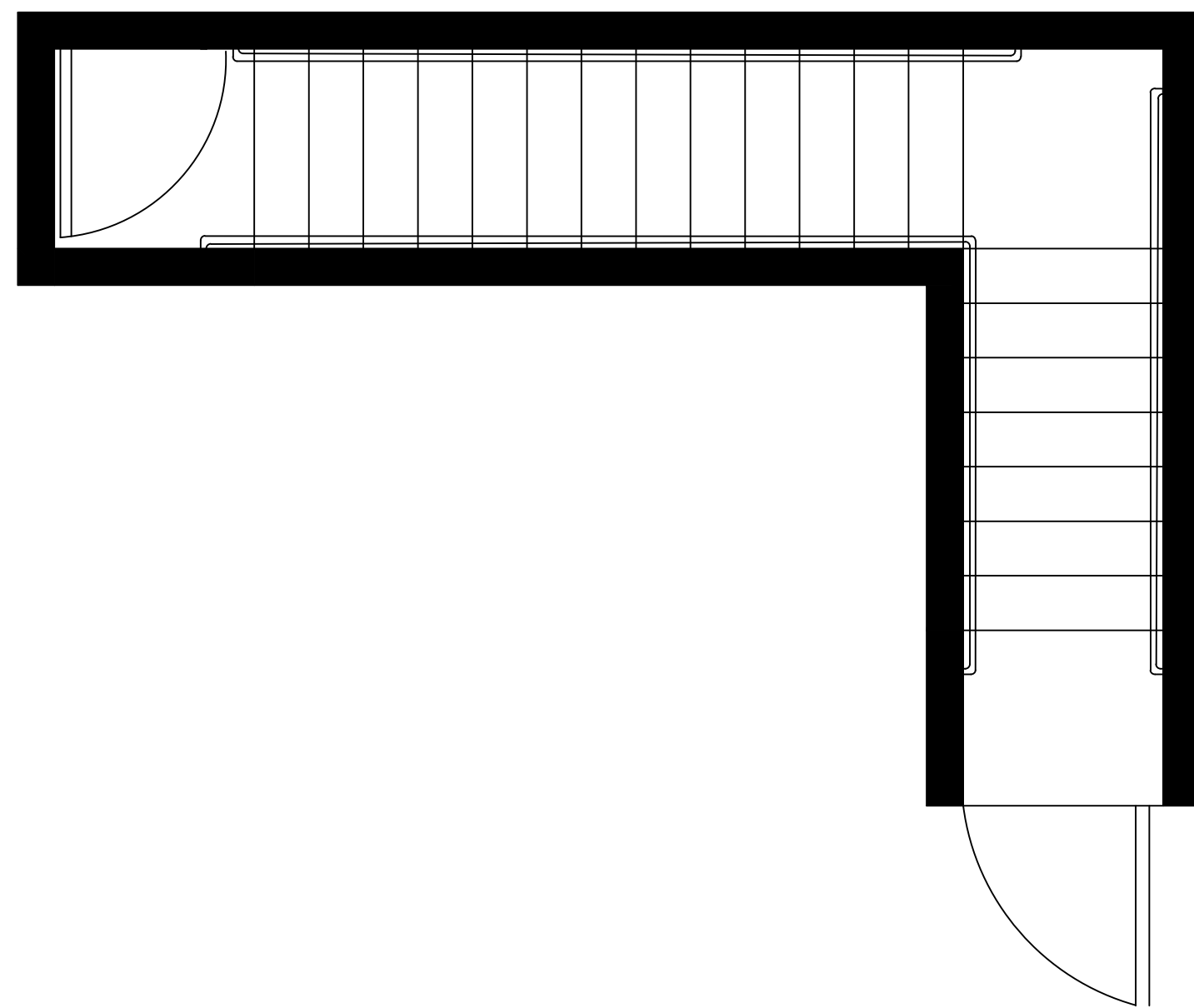
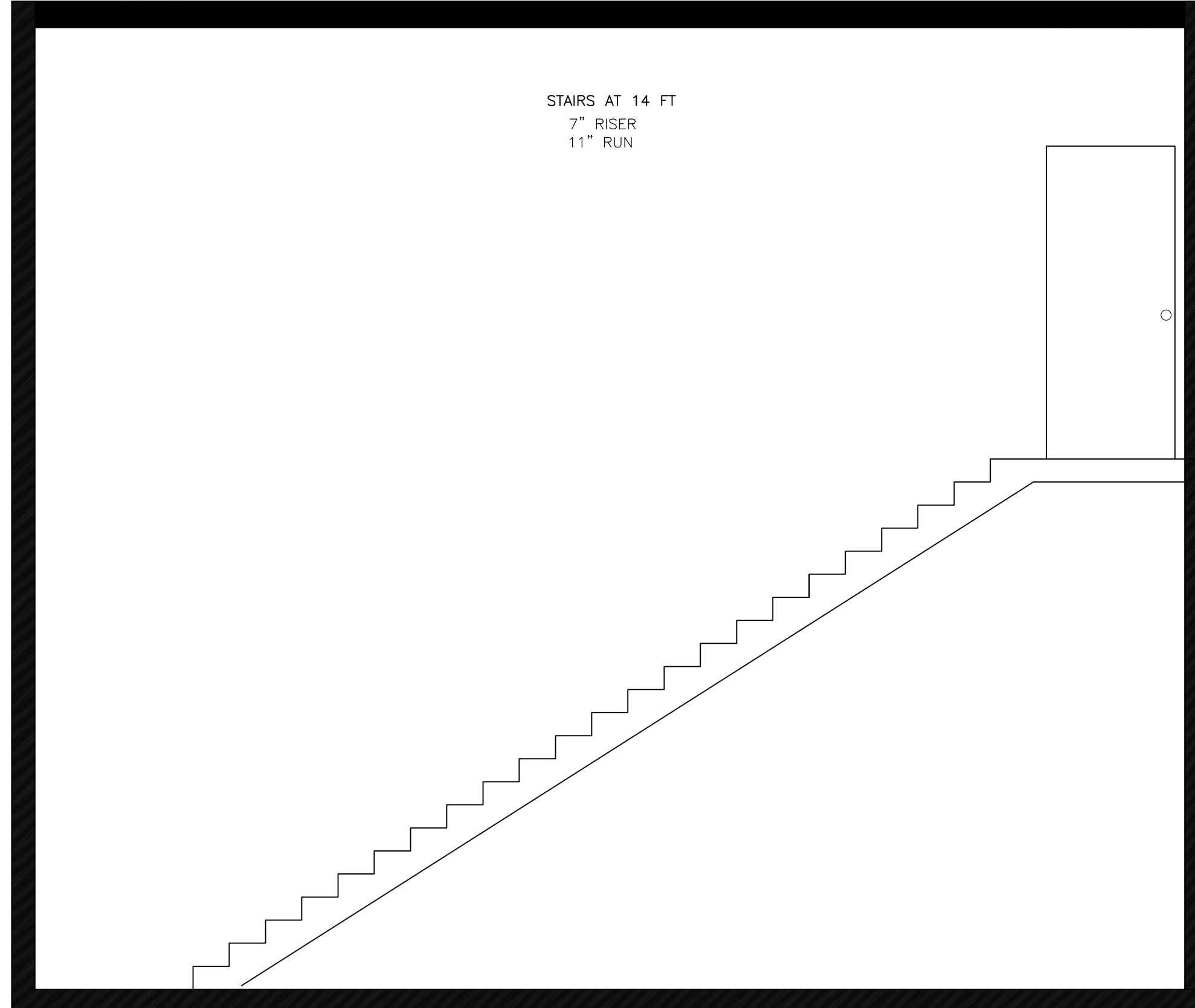
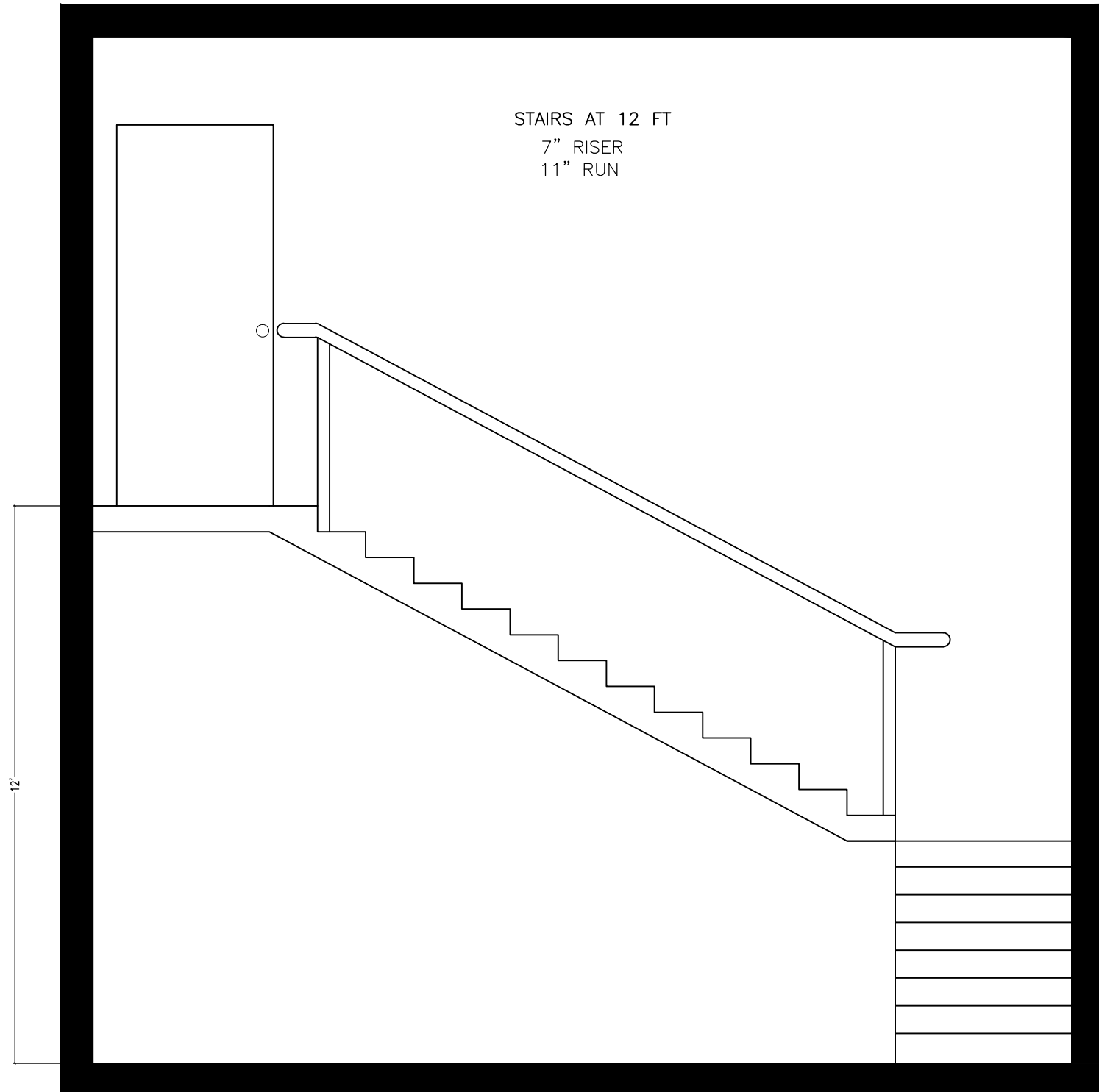
Scale \_\_\_\_\_ Scale 1/8" = 1'-0"

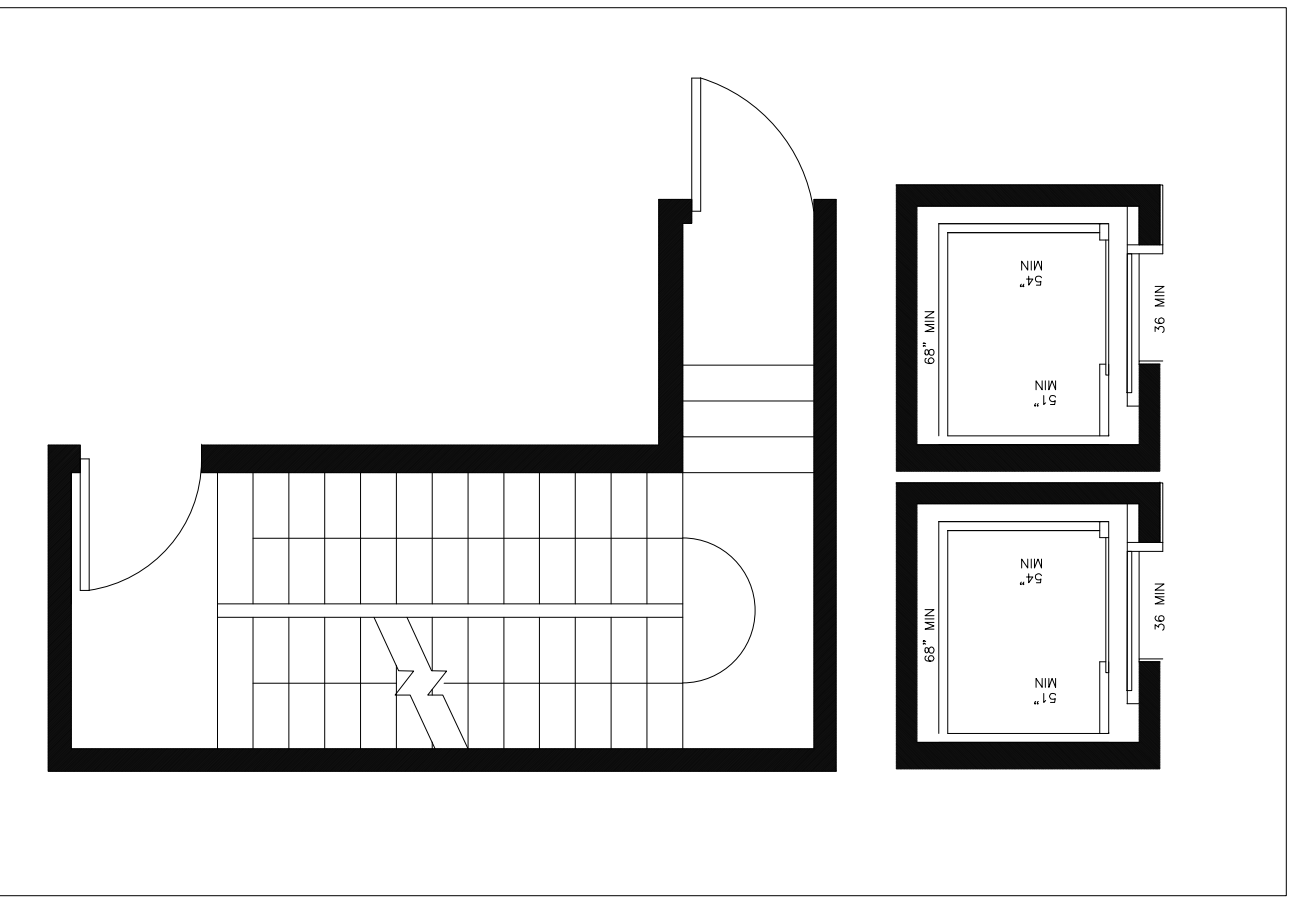
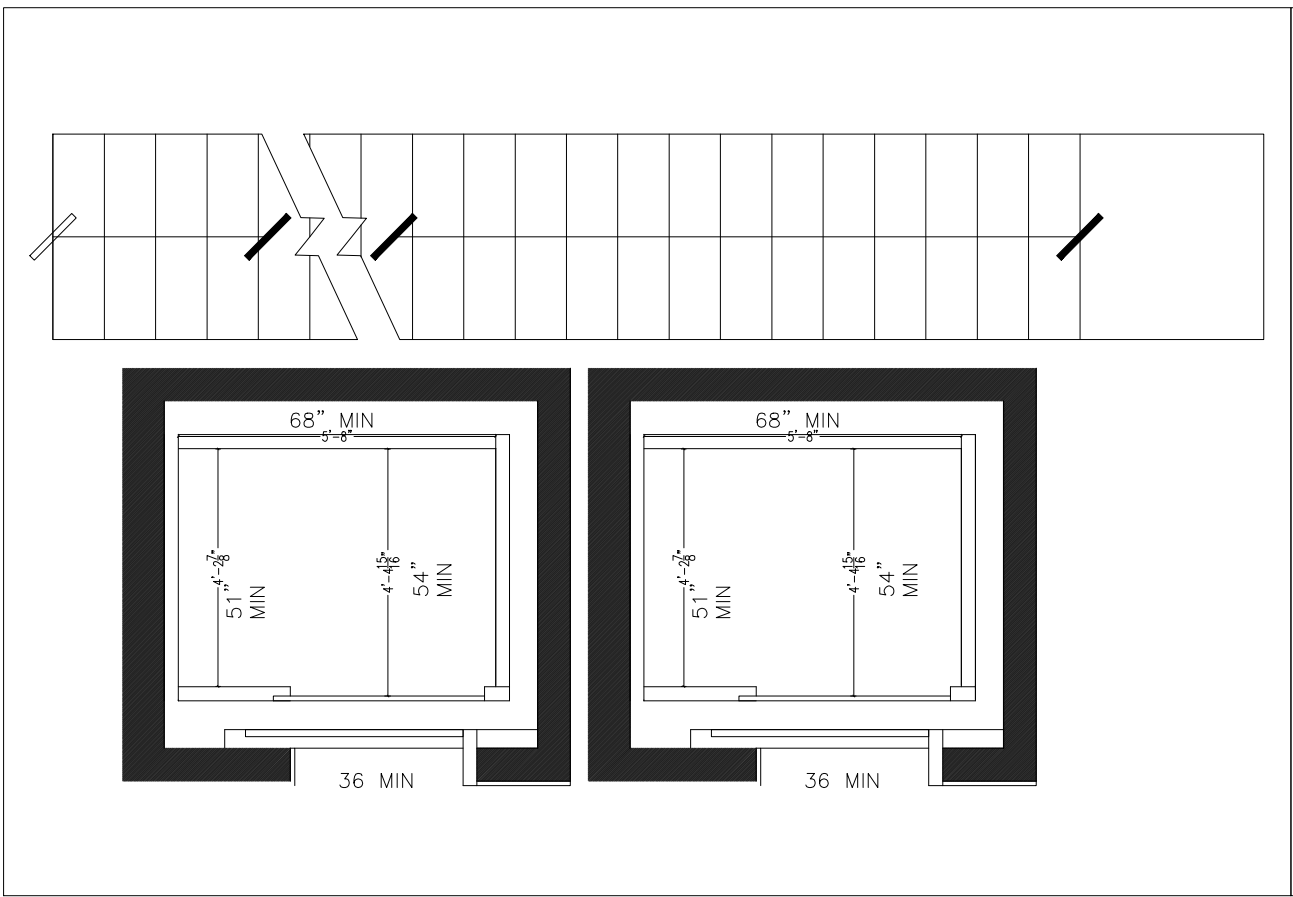
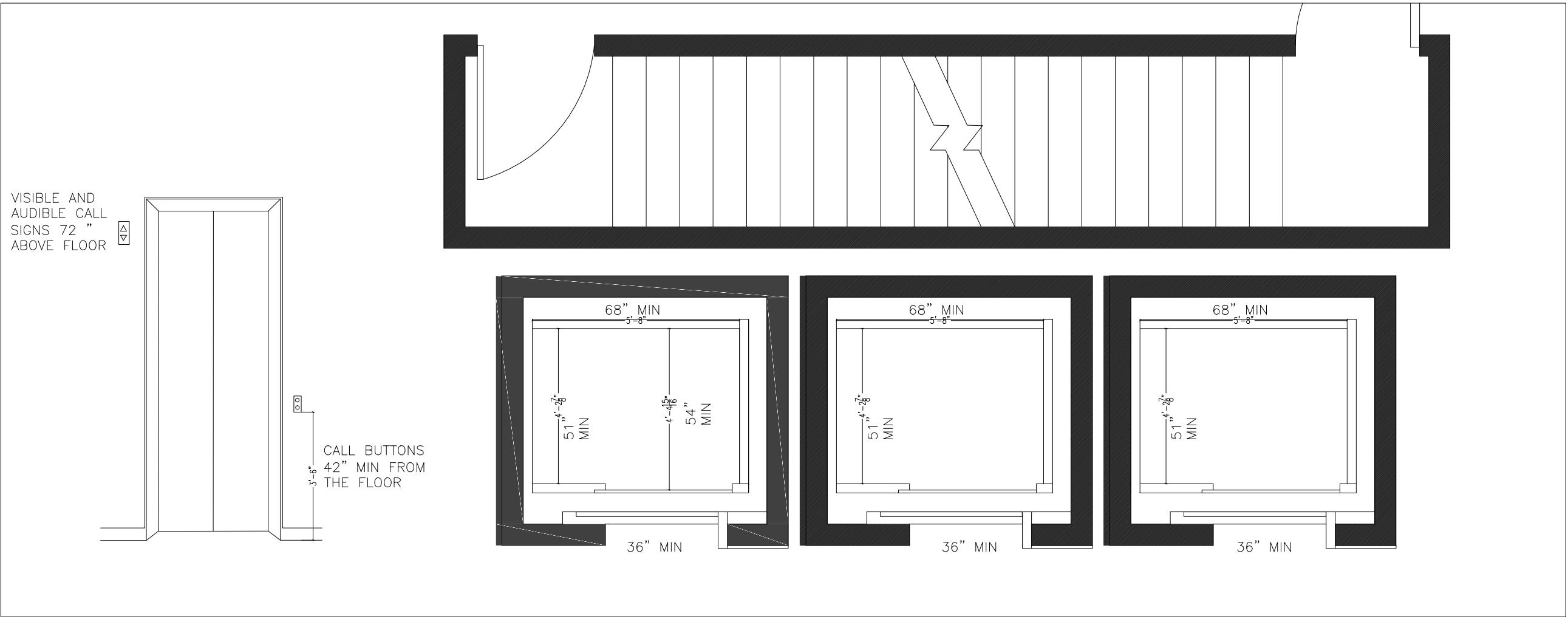
CORE STAIRS

Grade \_\_\_\_\_ Grade 1/8" = 1'-0"

STAIR RISERS:  
 $12 * 12 = 144"$   
 $144 / 7 = 20.57"$  21 RISERS  
 $144 / 21 = 6.85"$  PER RISER

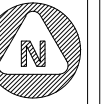
TREAD FORMULA:  
 $T + 2r = 24 \text{ TO } 25$   
 $T = 25 - 13.71$   
 $T = 11.29"$





CORE ELEVATORS

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 Professor Name \_\_\_\_\_ Professor Name KING

Checked by \_\_\_\_\_ Checker: \_\_\_\_\_  
 CE-200

Scale 1/8" = 1'-0"

CORE ELEVATORS

Grade 1/8" = 1'-0"