

The Velvet Freeze Project

A PROJECT DESIGN PROPOSAL FOR THE RENOVATION
OF THE HISTORIC VELVET FREEZE ICE CREAM STORE IN
TO A MULTI-USE BUILDING.

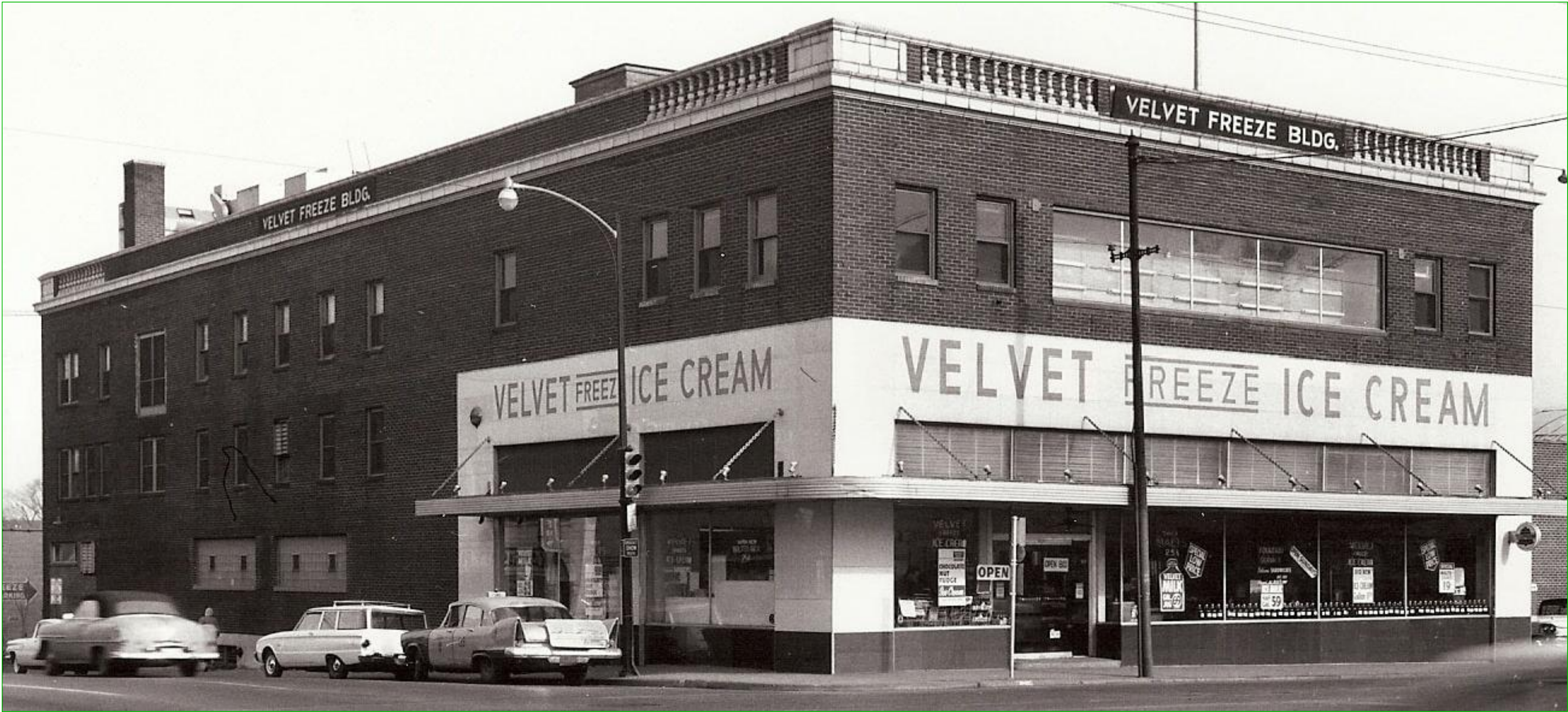


Photo of Velvet Freeze Ice Cream dataed 1961

Chris Wilburn Photography



The
Velvet Freeze Project

9150 E 41st Terrace
Kansas City, MO 64133
816-276-1400

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THE VELVET FREEZE PROJECT

THIS PROJECT REPRESENTS THE
WORK FOR ITT TECHNICAL 2010
DRAFTING & DESIGN CAPSTONE

AARON SMITH DAVID HOLDING
JOEY WRINKLE MONE'CA LANIER

STAMP

PROJECT NAME

THE
VELVET FREEZE
506 E. 31st ST.
KC, MO 64109

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REV NO.	REV NAME	DESCRIPTION

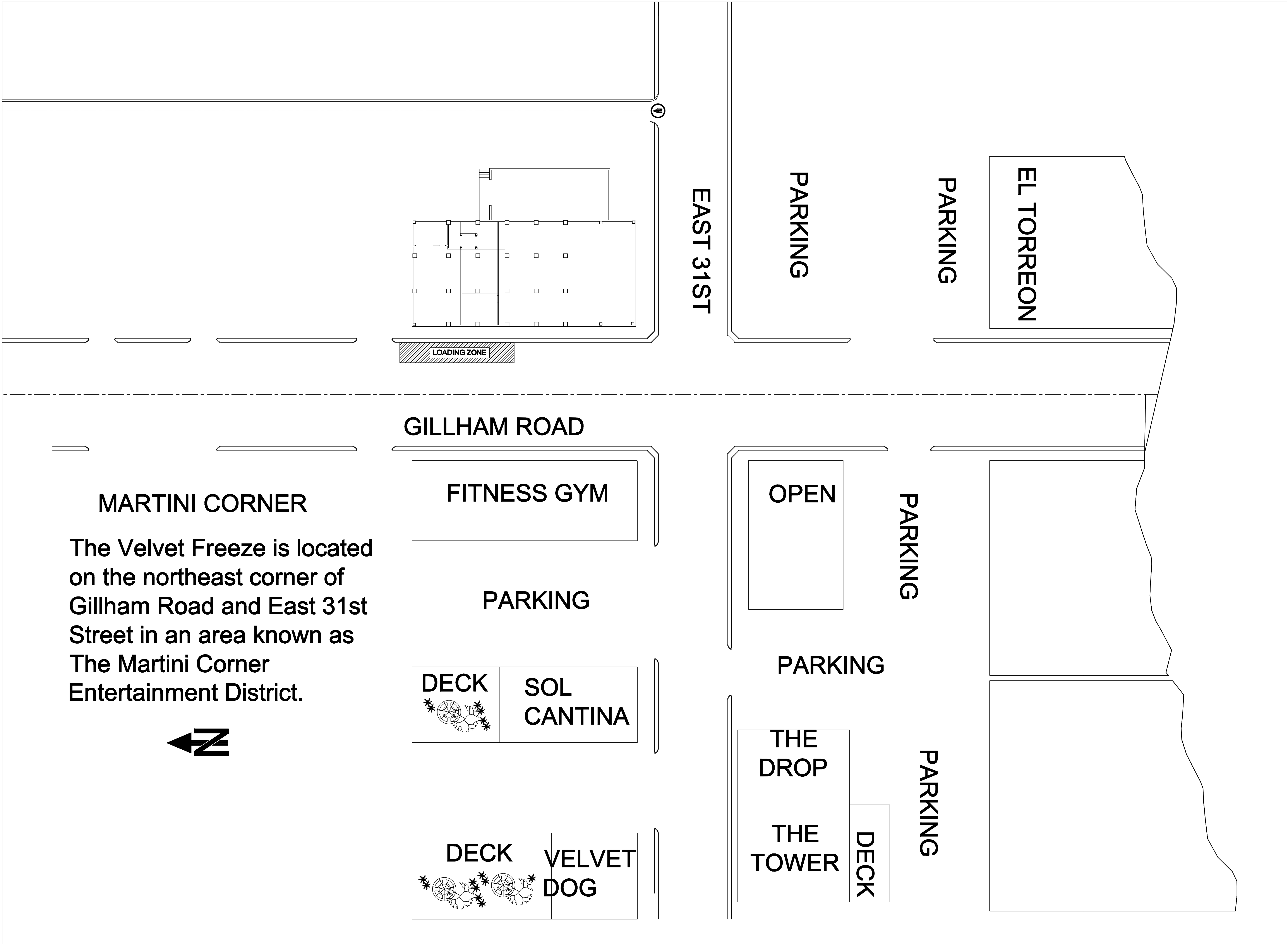
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DIAGRAM
COVER

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CVR

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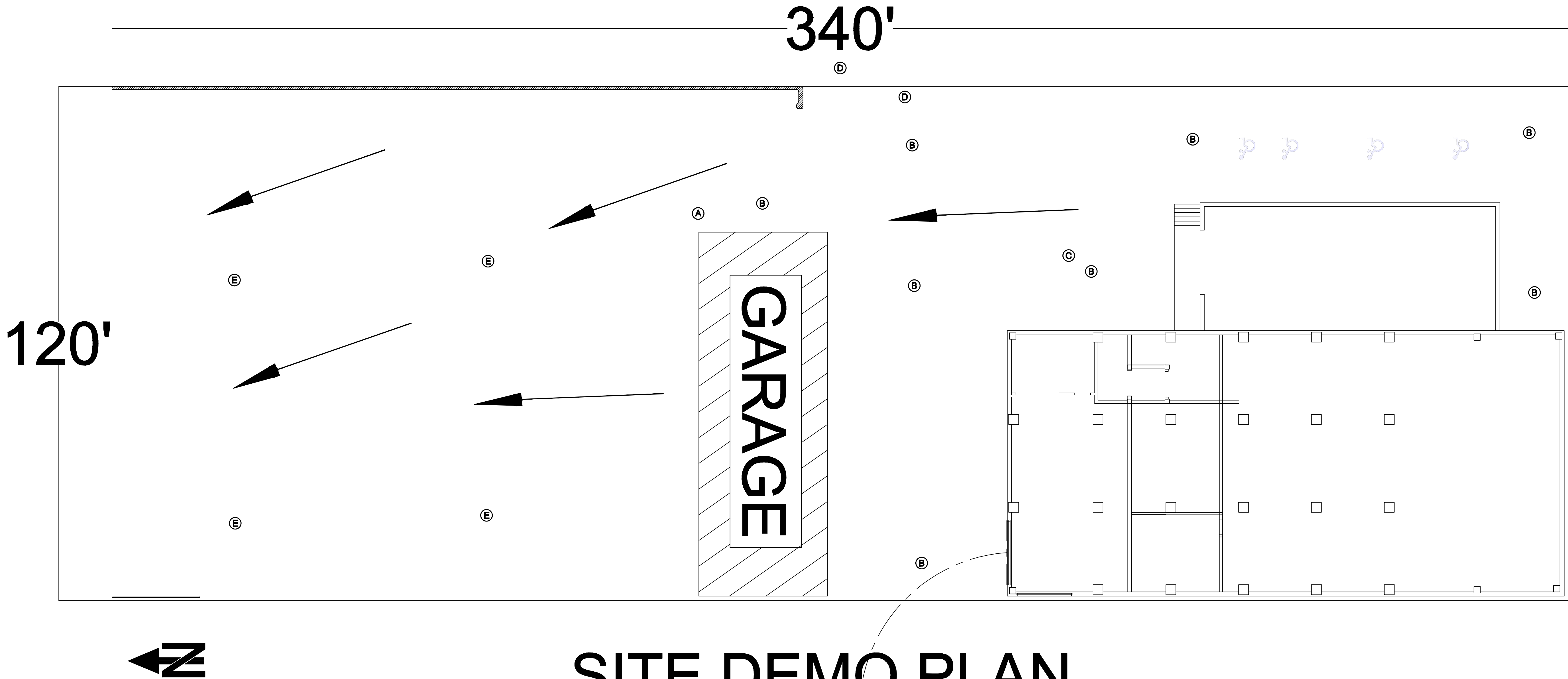
SITE LOCATION

DRAWING NUMBER

C-01 OF

LOT DEMO PLAN

- AREAS
- A.Demo existing building and salvage materials for reuse and recycle.
 - B.Remove existing drive way for replacement with pourous driveway materials.
 - C.Prepair area for deck installation.
 - D.Repair or refinish existing drive way curb structure.
 - E. Prepare location for underground water storage system for water harvesting.
 - F. Slope of lot is to the North at a 2.35% grade.



SITE DEMO PLAN



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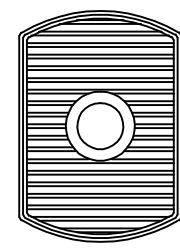
SITE DEMO
PLAN

DRAWING NUMBER

C-02

OF

WATER HARVESTING
SYSTEM

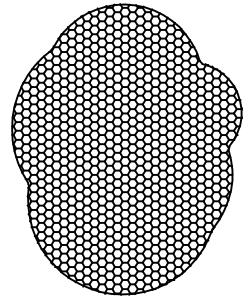


GRAF system underground water storage tank. Each at 1,700 US Gallons. Each array of 12 will store 20,400 Gallon of water for use as potable and non-potable water. Total of two arrays is 40,800 US Gallons.



RainXchange Aquablox (D-Raintank) for storage of non-potable water to be used with water fountains, irrigation systems, flushing toilets. Each box of 26.5" L x 16" W x 17.5" H stores 32 gallons. Total boxes in all arrays is 1752 boxes for total water reserve of 56,064 US Gallons.

GRAY WATER
RECYCLING SYSTEM



Greywater Recycling System consists of two separate systems to process water from building.

1. Greywater enters sand-filter system located under deck for initial processing.
2. second stage processing of greywater is pumped to planter bed throughout the north lot section. All green sections of north lot are interconnected with irrigation pipes to allow dissipation of graywater.

RUN OFF & WATER
MANAGEMENT

- A. A 12" french drain pipe system carries water run-off from southeast section of handicap parking to the north section where it is empited into fountains thourgh connection burried piping.
- B. All concrete shall be LEED certified pervious concrete to allow draining of rain and run-off into the ground and water harvesting systems.
- C. Walkways are part of the RainXchange system that allows drainage of rain into the modular storage reserviors located below fountains.
- D. Rain run-off from building roofs are

directed into the RainXchange system. Fountains located on the Roof will receive water from the RainXchange system via return pumps and piping. E. The entire model consiting of Graf and RainXchange systems should provide for complete water harvesting of rain and greywater making the building able to sustain independent water usage from the city 90 percent of the time.



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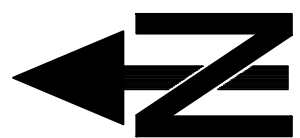
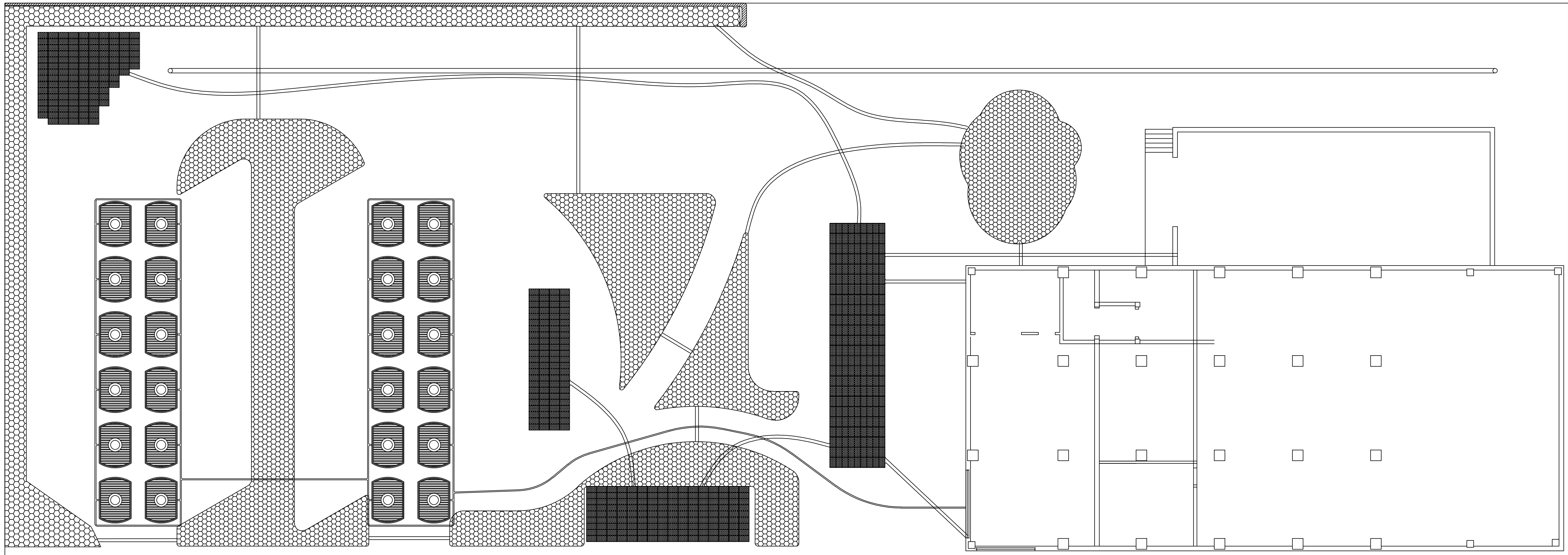
DRAWING NAME

WATER
HARVESTING

DRAWING NUMBER

C-03

OF



WATER HARVESTING

LOT DESIGN

AREAS

- A. Parking Lot Entrance
- B. Parking Lot Exit
- C. Auto Parking
- D. Motorcycle Parking
- E. Pedestrian Walkway
- F. Park and Fountain
- G. North Entrance (Deck & Building)
- H. NE Deck
- I. Handicap Parking
- J. Bicycle Parking
- K. Alley

DETAIL

- 1. Water fountain and benches. Water is circulated from RainXcahnge (TM) Rainwater Harvest Systems.
- 2. Water falls provide for decoration and photo background. Humidity from vapor provides for colling effects across the area. There are three main waterfall systems in the North Seciton.
- 3. Pervious concrete pavement is used for all driveways and walkways allowing water to filter into RainXchange system.
- 4. Native plants and trees are used to retain water and the eco system. Mulch is used around planters.
- 5. Natural grond cover plants are used instead of grass to minimize mowing and maintenance. Areas of native tall grass are located thoroughout the area.
- 6. Multipe park benches throughout the area allow for socializing and resting spots.
- 7. Motorcycle parking is provided for a minimun of 12 bikes. An awing can be added to the site.
- 8. Parking space is provided for 31 vehcicles.
- 9. Benches are provided for the bus stop located at the south building entrance.
- 10. A double wide driveway entering from the west adn exiting via the alley to the south allows for taxi and limozine dropoff of

patriots.

- 11. A large deck is located on the NE corner of the building and adds extra event space to the east section.
- 12. Handicap parking includes two van accessible spots and two regular spots. Specially designed handicap markers are used.
- 13. Handicap access to the deck can be provided by two options.
- (a). A long ramp running from south to north and turning at a right angle at the location of the steps.
- (b). A mechanical lift located at the edge fo the deck steps.
- Option (b) is indicated.
- 14. Original garage doors on building are used

for opening the dinning area to the outside. Only the west garage door is used for loading and unloading of supplies with a marked loading zone.

- 15. A bicycle parking area accomodates up to 16 bikes and provides seating for cyclists to rest and prep.
- 16. Solar powered area lighting is used throughout the parking lot. Use of high-effeciency output OLED (organic light emitting diodes) are used.
- 17. There are two Spiral Fire Escape ladders attached to the building. One for the Second Story Roof Deck level and one for the Top Roof Deck level.



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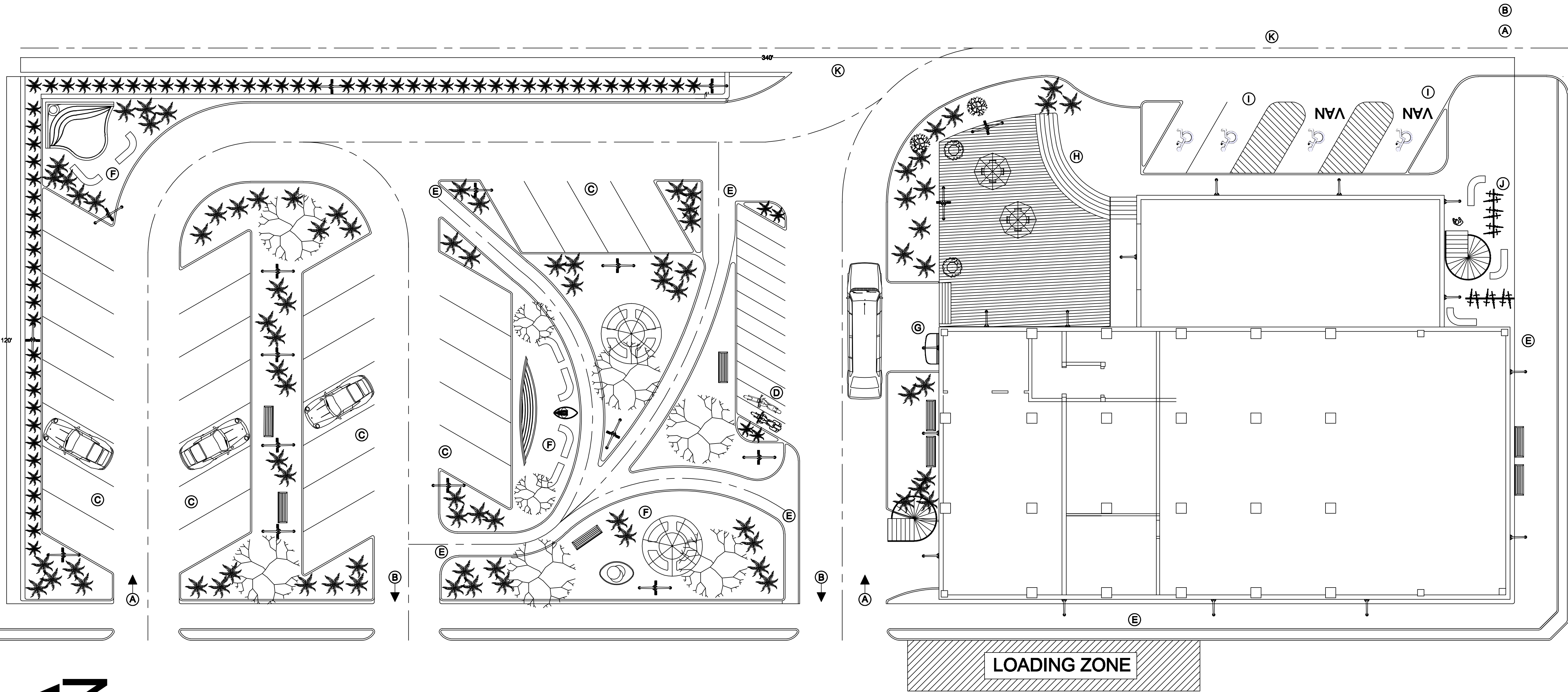
DRAWING NAME

NEW SITE
PLAN

DRAWING NUMBER

C-04

OF



NEW SITE PLAN

DECK & HANDICAP ACCESS DESIGN

DETAIL

- 1. A large deck is located on the NE corner of the building and adds extra event space to the east section. The total area of the deck is 1,500 square feet. The deck will be build with removable floor sections to allow access and maintenance to the gray water recycling sand filter below the deck.
- 2. Deck is shown with some container plants and outdoor tables with umbrellas.
- 3. Solar powere light poles are position on the deck for lighting. Additional lighting is provided from building mounted lights.
- 4. Handicap parking includes two van

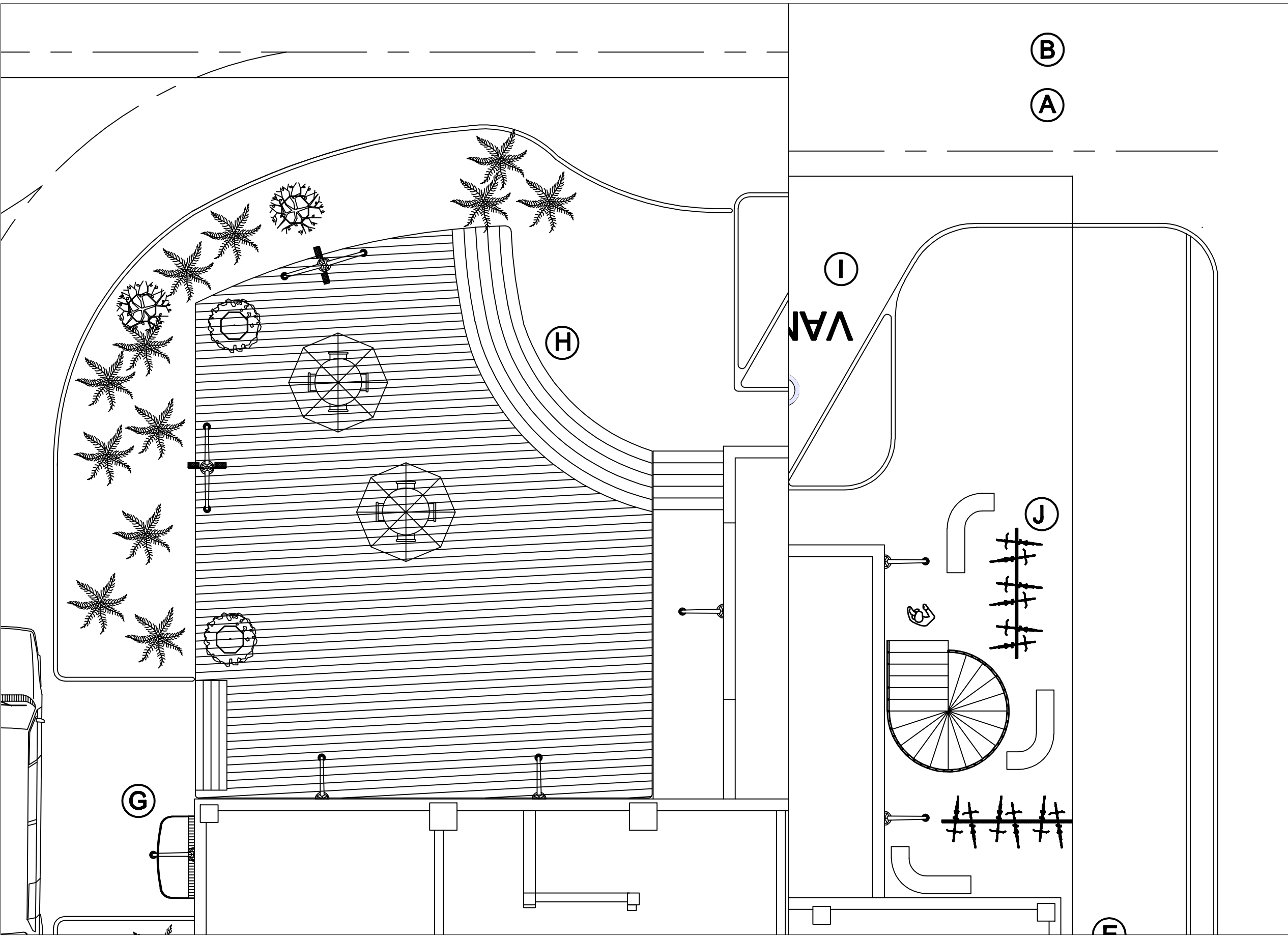
accessible spots and two regular spots. Specially designed handicap markers are used (handicap person is holding an ice cream cone).

5. Handicap access to the deck can be provided by two options.

(a). A long ramp running from south to north and turning at a right angle at the location of the steps.

(b). A mechanical lift located at the edge fo the deck steps. Should the lift fail, access would be through either the front door or the back door.

Option (b) is indicated.



FOUNTAINS & PARK AREA

DETAIL CORNER FOUNTAIN

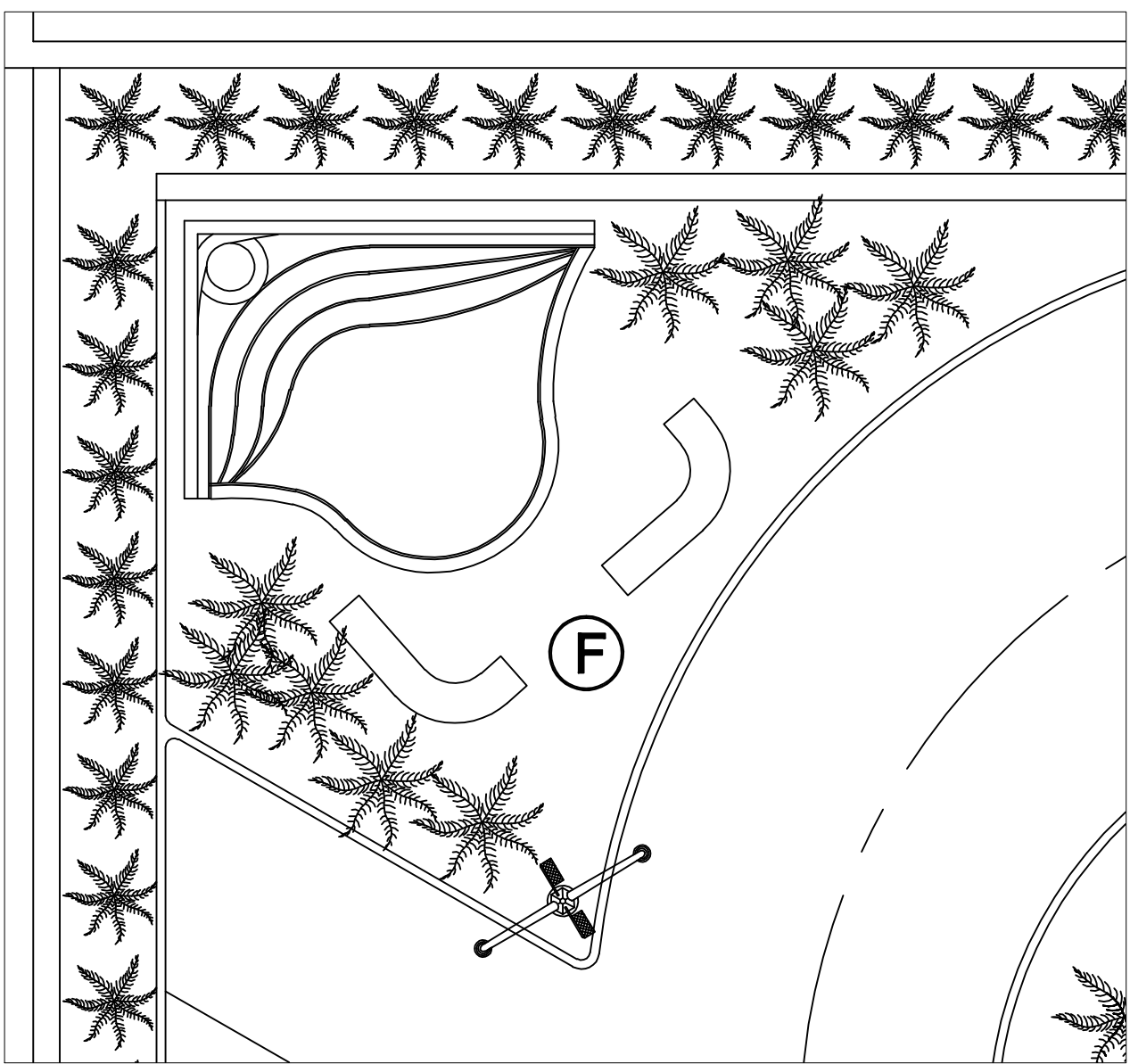
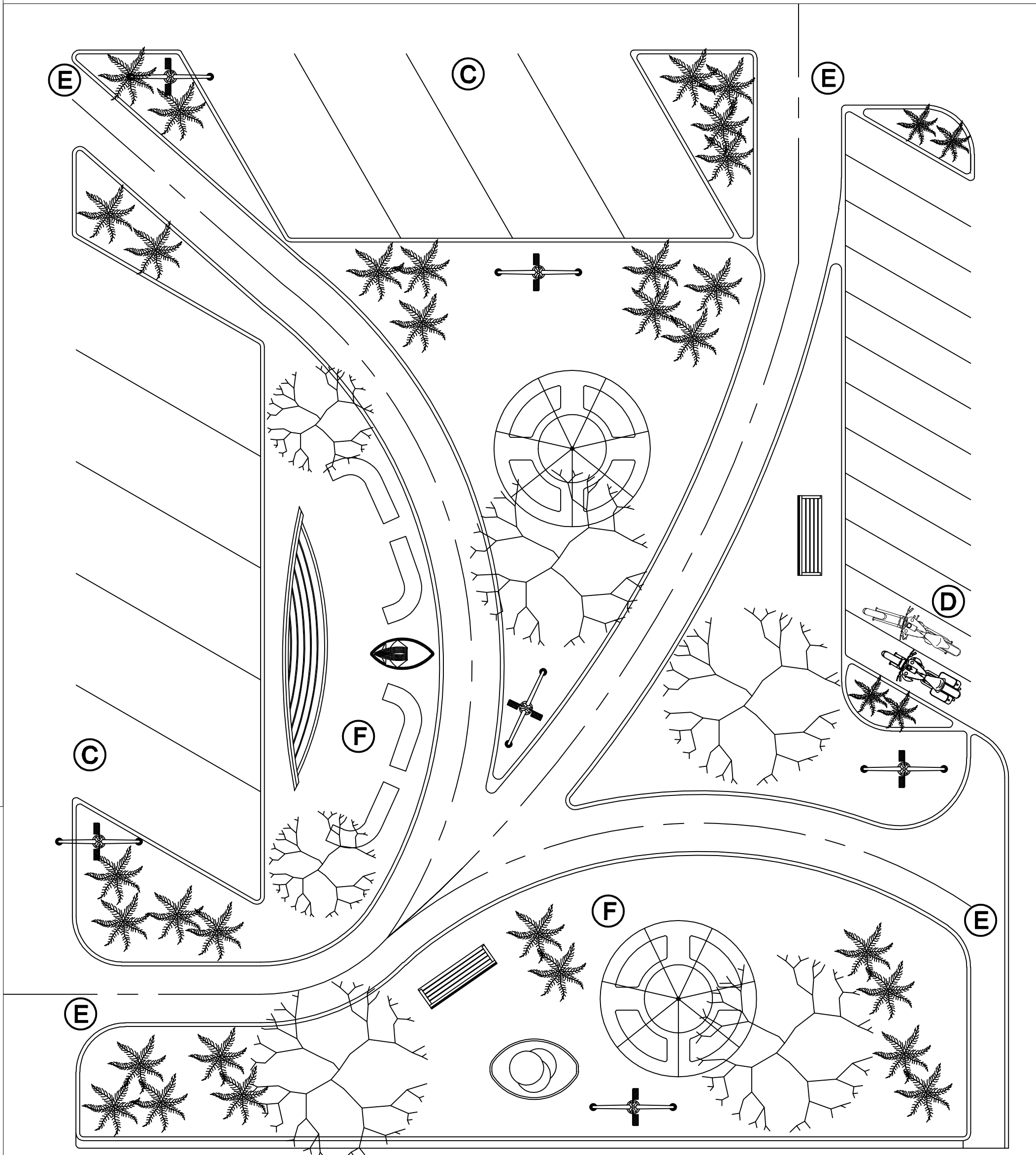
- 1. The Corner Waterfall Fountain is located in the northeast of the lot. It's main source of water comes fromthe RainXchange system installed below the fountain, pool, and seating area.
- 2. The fountain area comprises roughly 620 square feet that provides for the fountain, pool, seating (two j-shapped benches) and plants.
- 3. The back wall of the lot is part of the gray water system and allows processed gray water to filter to the gound and into the RainXchange system.

DETAIL PARK AREA

- 1. The Central Park area contains roughly 4,900 square feet. This contains two fountains, seating, plants, RainXchange systems, and area lighting.
- 2. The South Face Sun Desgin Fall is located on the north center of the park. This provides a sun dail for the yard with the time marked by a shadow cast from the obelisk located in front of the fountain. The main source of water for this fountain is teh RainXchange system located below the fountina area.
- 3. The Ice Cream Cone waterfall is located on the west center of the park. This fountain provides a influence of the Velvet Freeze Ice Cream history. It will contain a plaque with histroric information detailing the history and transformation of the Levy Building into the Velveet Freeze. The main

water source for this fountain is the RainXchagne system located below the fountain.

- 4. The native plants are a part of the gray water recycling system. This allows for processed gray water to filter into the ground and RainXchange system.
- 5. The park provides for photo opportunities for various events as well as a general park for the area.



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DRAWING NAME

LOT
DETAILS

DRAWING NUMBER

C-05

OF

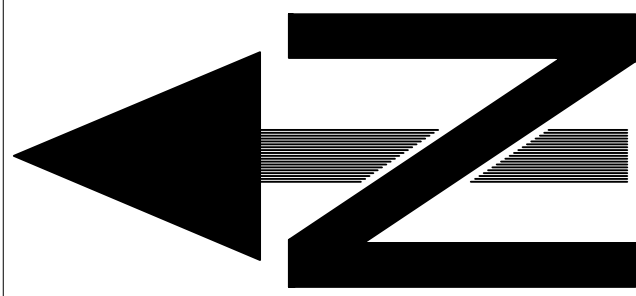
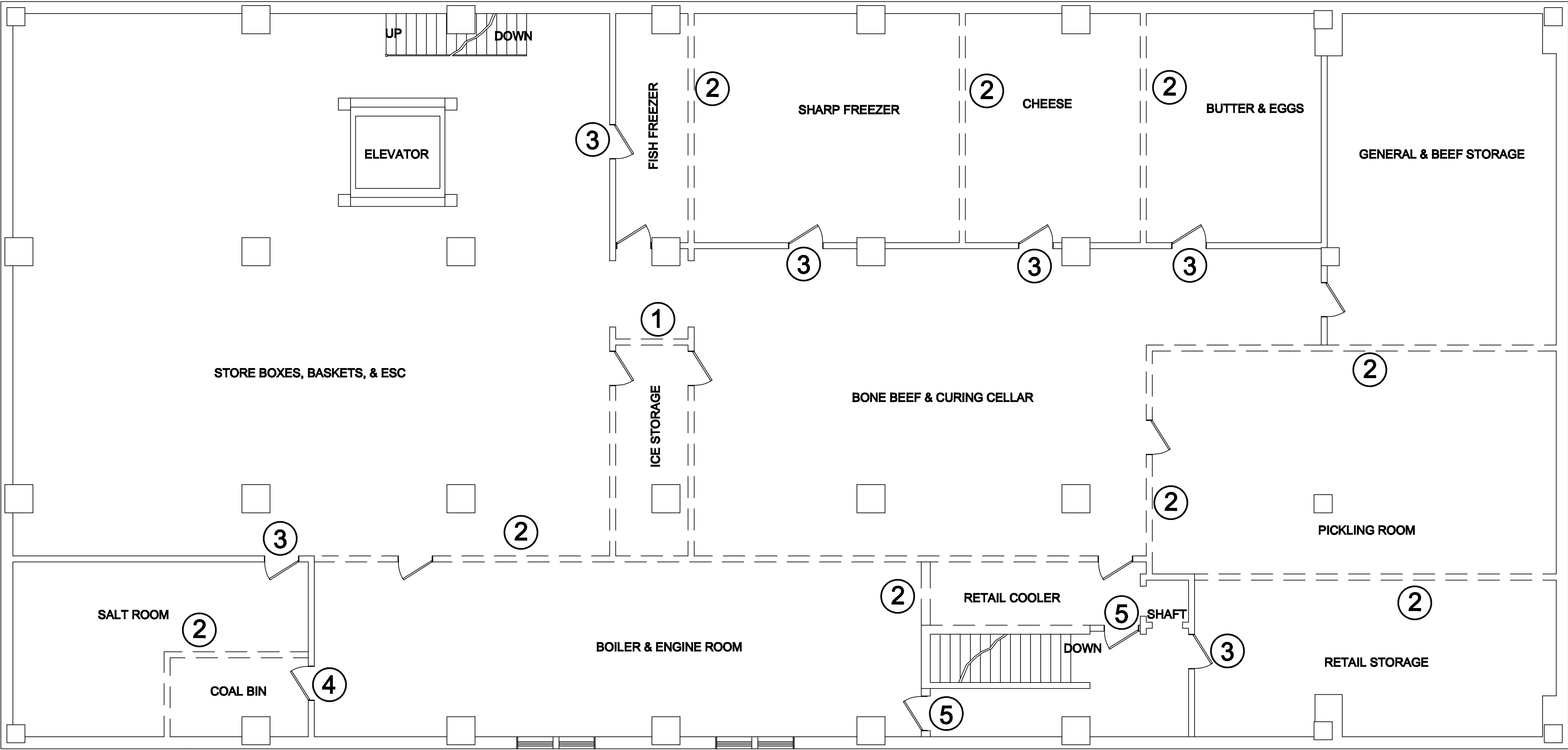
BASEMENT DEMO PLAN

AREAS

- A. Store boxes, Baskets, & Esc
- B. Salt room
- C. Coal bin
- D. Boiler and engine room
- E. Retail cooler
- F. Retail storage
- G. Pickling room
- H. General & Beef storage
- I. Butter & eggs
- J. Cheese
- K. Sharp freezer
- L. Fish freezer
- M. Ice storage
- N. Bone beef & curing cellar

DEMO

- 1. Demo structure completely
- 2. Demo selected wall
- 3. Take out door and prep for pocket door
- 4. Take out door and replace with wall
- 5. Take out door



BASEMENT DEMO



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REV NO.	REV NAME	DESCRIPTION

DRAWING NAME

BASEMENT
DEMO

DRAWING NUMBER

A-01

OF

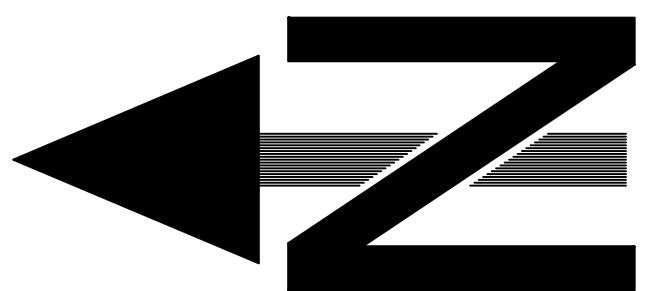
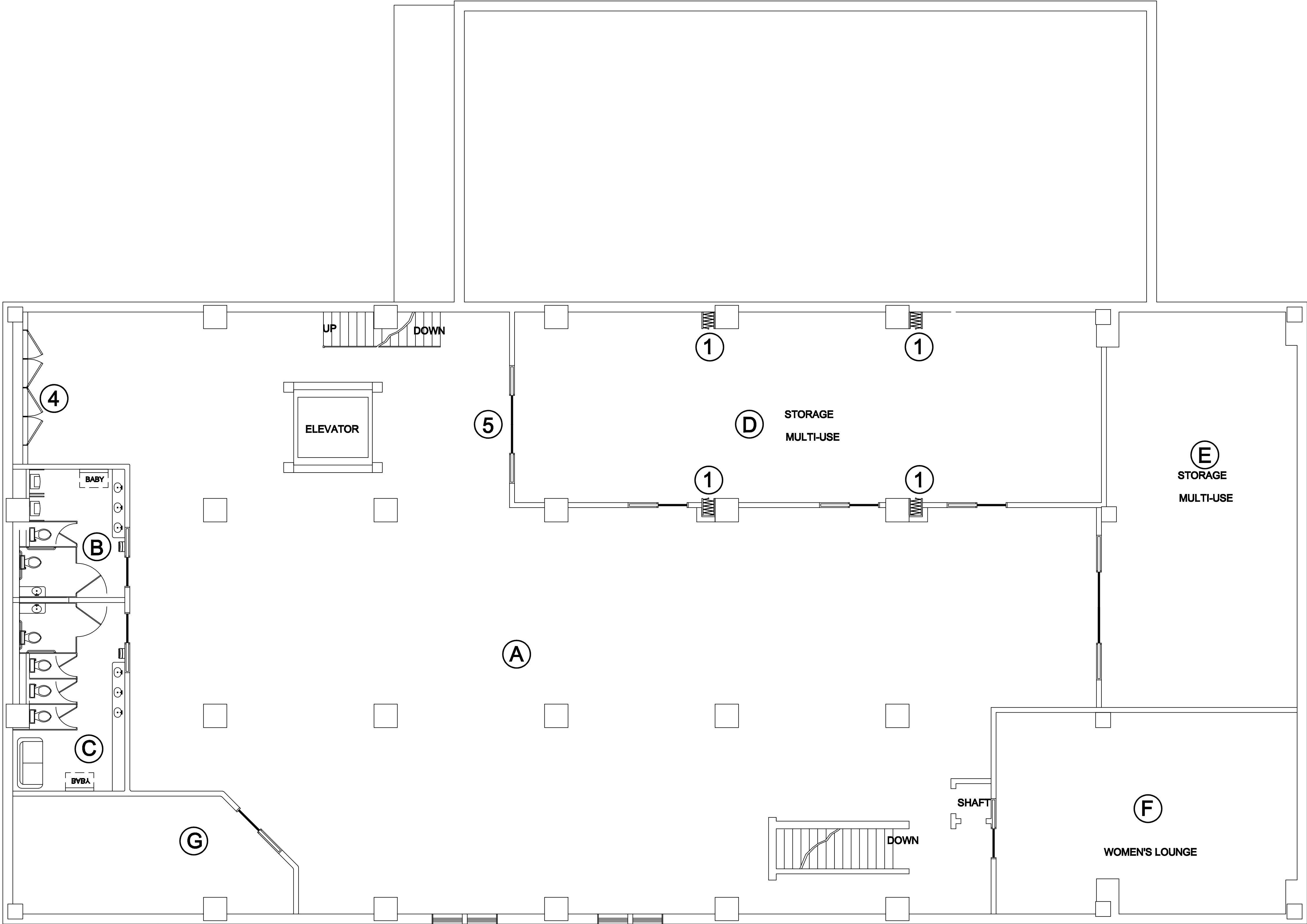
BASEMENT PLAN

AREAS

- A.General use open area
- B.Men's restroom
- C.Women's restroom
- D.Storage and multi-use 1
- E. Storage and multi-use 2
- F. Women's Lounge
- G.Utility Room

DETAIL

- Storage and multi-use area will have movable partitions to allow separation of rooms from one large to three smaller.
- Men's restroom shall have two waterless urinals. Restroom shall contain a minimum of three toilet stalls (one ADA), three sinks (one ADA). Two jet air dry hand driers shall be used. One central paper towels dispenser will be installed. A baby changing station will be installed. Bench seating will be available.
- Women's restroom shall contain a minimum of four toilet stalls (one ADA), three sinks (one ADA). Two jet air dry hand driers shall be used. One central paper towels dispenser will be installed. A baby changing station will be installed. Bench seating will be available.
- Electrical utility service panels will be located near the southwest corner. A proper wall will be constructed for safety and limited access.
- All doors shall be pocket style doors.
- Block glass window will be replaced with energy efficient windows.



BASEMENT PLAN



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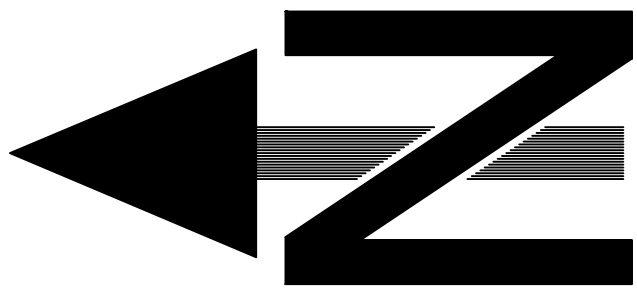
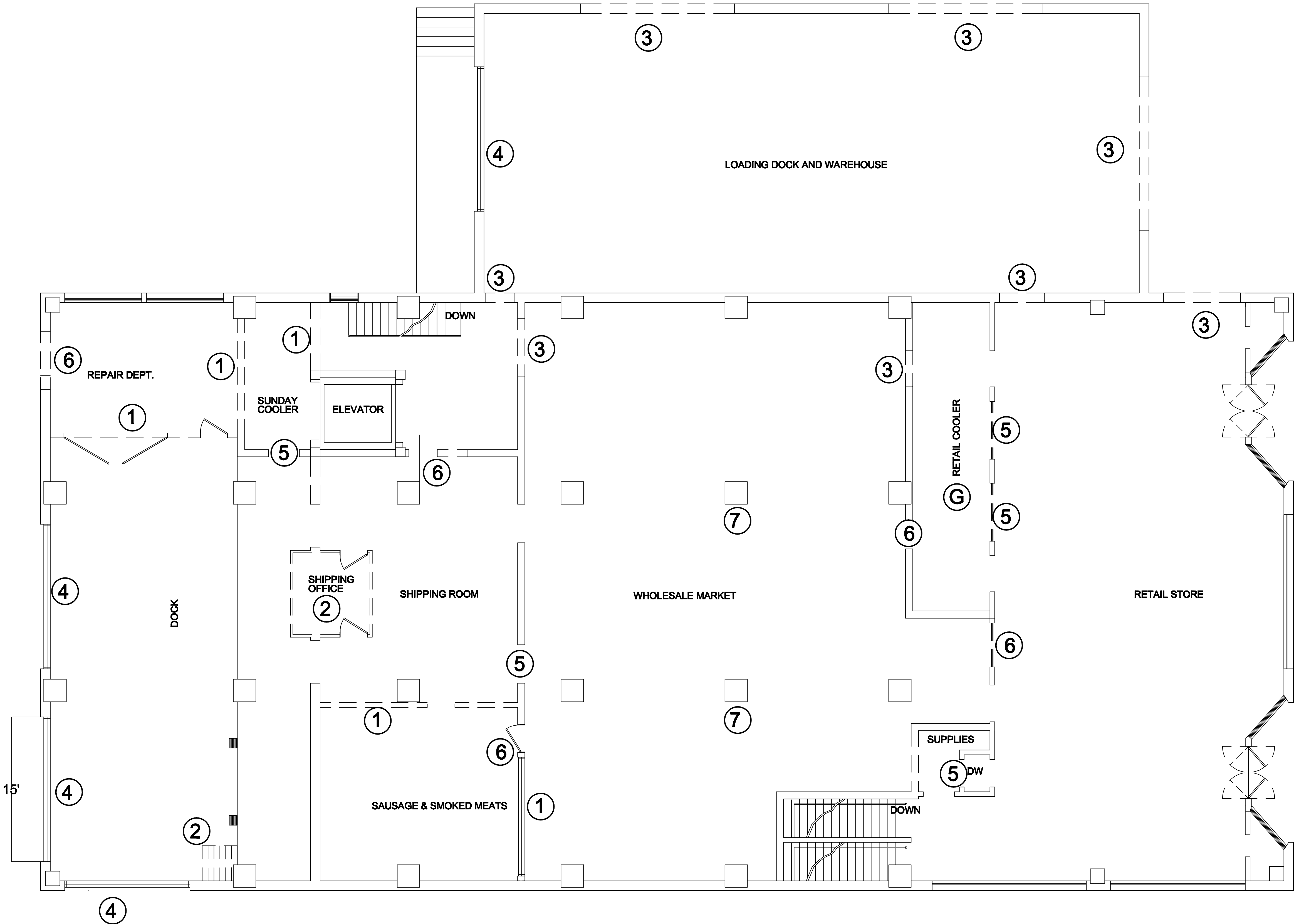
A-02

OF

FIRST FLOOR DEMO PLAN

- AREAS
- A.Repair Department
 - B.Dock
 - C.Sausage & Smoked Meats
 - D.Supplies
 - E. Elevator
 - F. Retail Storefront
 - G.Retail Cooler
 - H. Wholesale Market
 - I. Shipping Room
 - J. Shipping Office
 - K.Sunday Collier
 - L. Loading Dock and Warehouse

- DEMO
- 1. Demo wall and any installed doors or windows completely to open up space
 - 2. Demo structure completely
 - 3. Demo wall to install selected door or window as indicated
 - 4. Remove any filling done to original opening and prep for new door or window as noted
 - 5. Demo existing door and replace with wall
 - 6. Change opening for new or larger door or window
 - 7. Demo column and replace support with cross beam as indicated



FIRST FLOOR DEMO



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1ST FLOOR
DEMO

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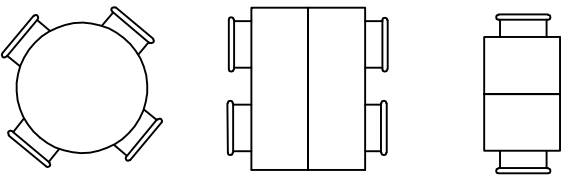
FIRST FLOOR PLAN

AREAS

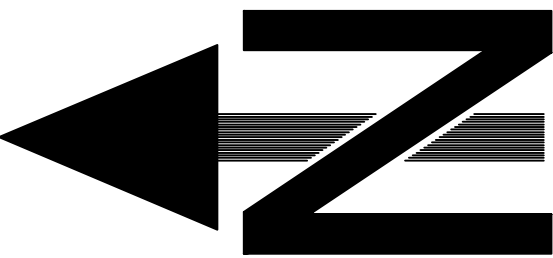
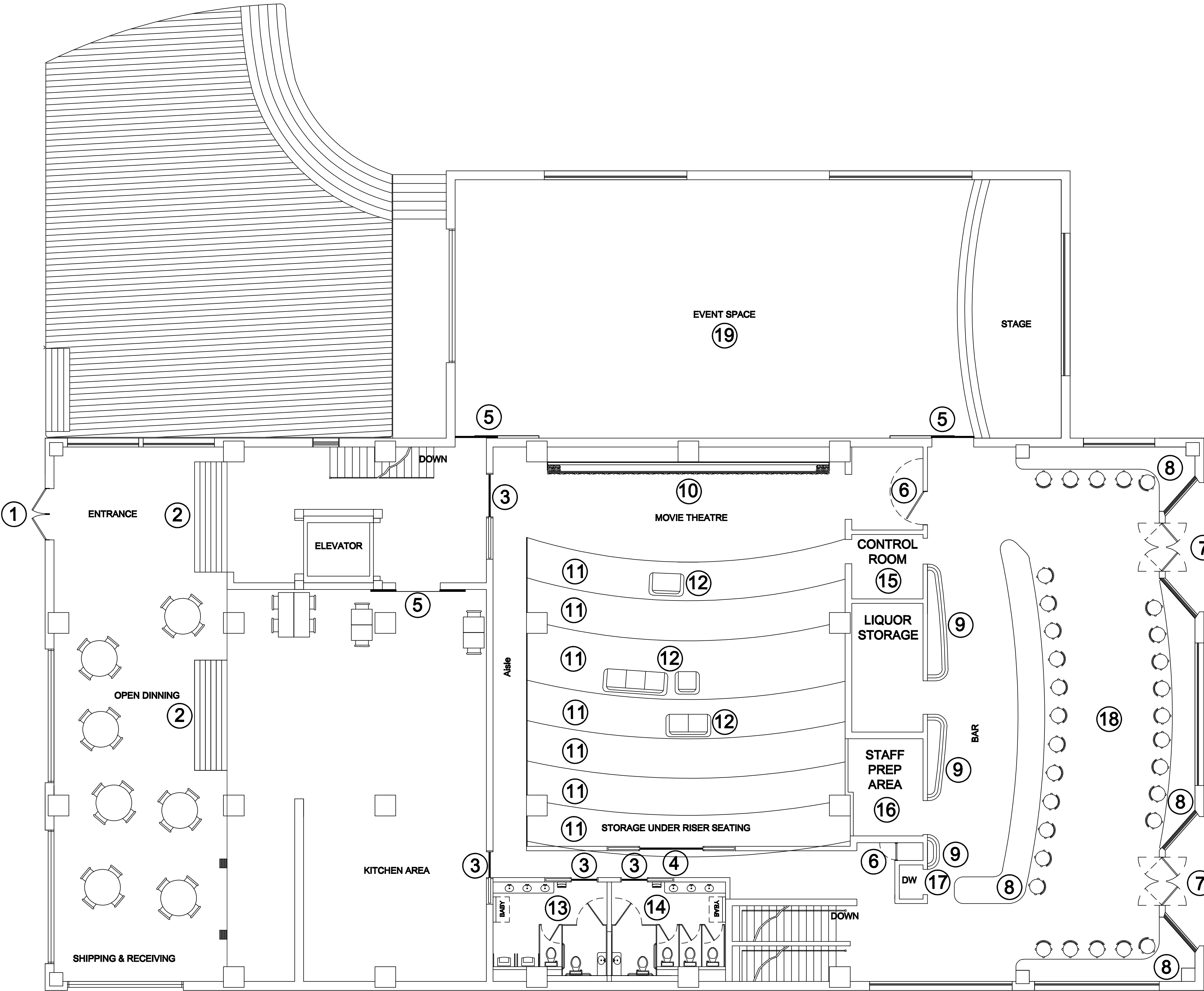
- A.Entrance - North Drive & Parking
- B.Open Dinning
- C.Shipping & Receiving
- D.Kitchen
- E.Storage - under theater risers
- F. Men's Restroom
- G.Women's Restroom
- H.Movie Theater
- I. Main Bar and Storefront
- J. Liquor Storage
- K.Staff Prep Area
- L. Theater Control Room
- M. Event Space

DETAIL

- 1. Double doors with removable mullion.
- 2. Steps for access to dock and floor level.
- 3. Pocket door (single slider).
- 4. Pocket door (double slider).
- 5. External slider door.
- 6. Single swing solid core door.
- 7. Double swing storefront doors.
- 8. Bar & general counter tops.
- 9. Liquor and amenities shelving and cabinets.
- 10. Movie screen or Large Screen OLED HDTV. (Max dimensions Wide Screen ratio 1:2.35 = 12' x 28'2").
- 11. Theater seating risers. Rise = 15" with various runs from 51" to 79". Back of platform forms last step into Mezzanine level corridor.
- 12. Theater seating is comprised of four basic style of seating: 32" Lazyboy chair or recliner, 46" large seat, 60" love sofa, and 84" sofa. Four areas are reserved for handicap wheelchairs.
- 13. Men's restroom with Handicap access.
- 14. Women's restroom with handicap access.
- 15. Control Room for AV (audio and video) production for Theater and bar.
- 16. Staff Prep Area is used for cash register functions, selected order processing, and storage of staff items.
- 17. Dumbwaiter (DW) is used to shuttle items between floors.
- 18. Main Bar - The Velvet Freeze - redesign spin-off of original Velvet Freeze Ice Cream storefront.
- 19. Event Space for rent. Approximately 2,000 Sq/ft.

 Dinning Tables

 Bar Stool
 Hygienic Hand Dryer



FIRST FLOOR PLAN



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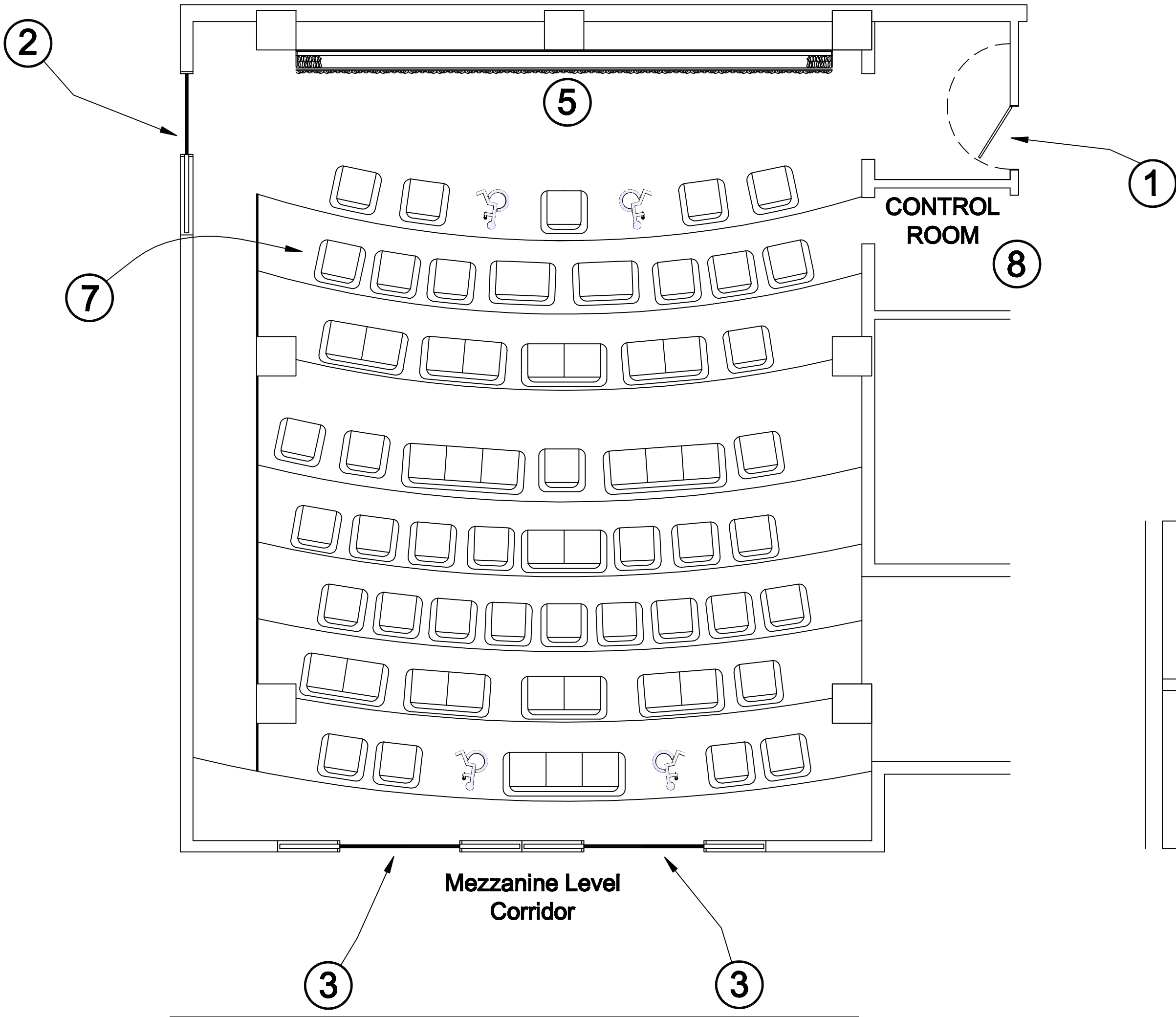
A-04

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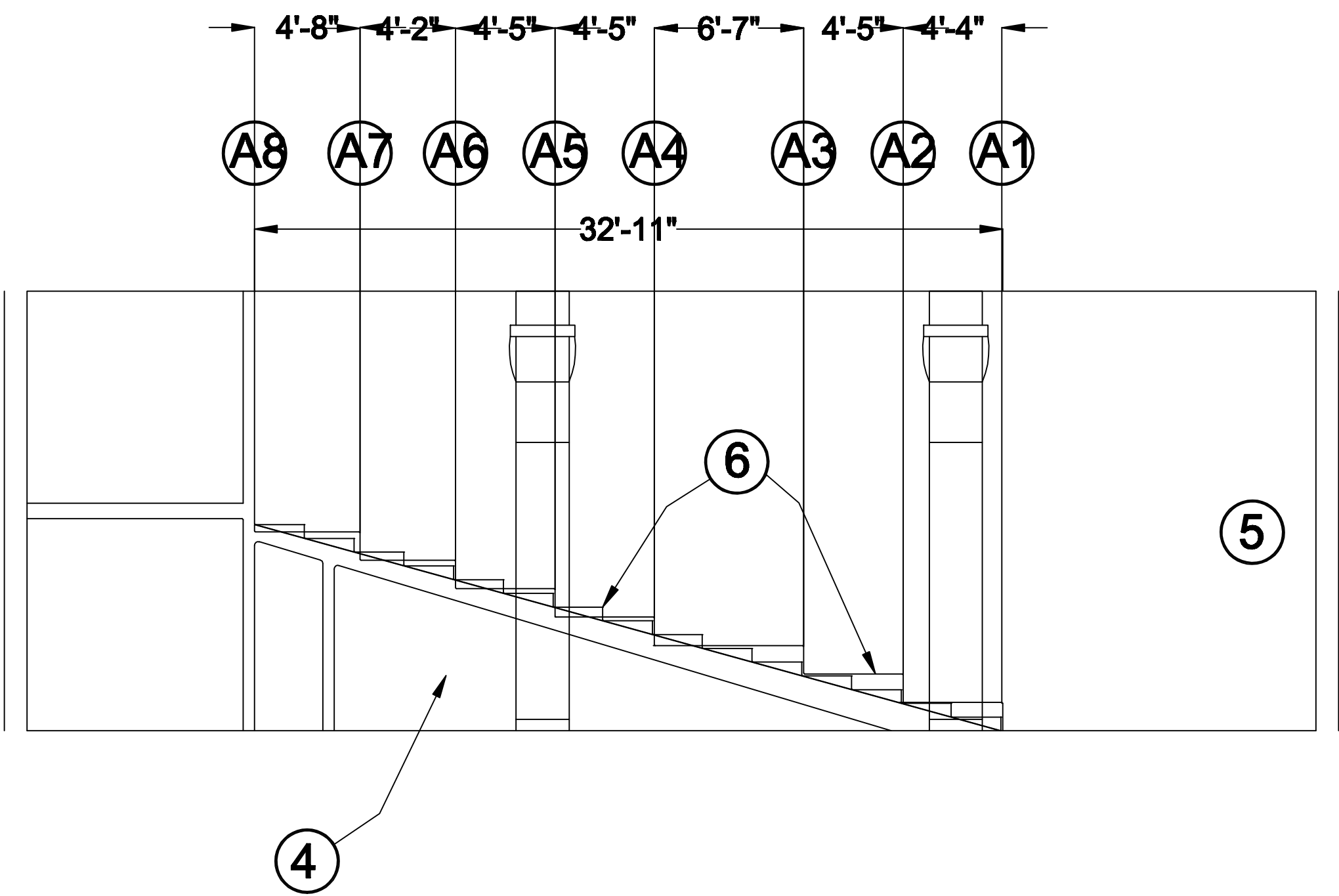
FIRST FLOOR PLAN THEATER DETAIL

- AREAS
- A.Movie Theater
 - B.Theater Control Room

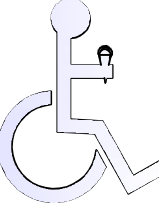
- DETAIL
- 1. Single swing solid core door.
 - 2. Pocket door (single slider).
 - 3. Pocket door (double slider).
 - 4. Storage under theater risers.
 - 5. Movie screen or Large Screen OLED HDTV. (Max dimensions Wide Screen ratio 1:2.35 = 12' x 28'2").
 - 6. Theater seating risers. Rise = 15" with various runs from 51" to 79". Back of platform forms last step into Mezzanine level corridor.
 - 7. Theater seating is comprised of four basic style of seating: 32" Lazyboy chair or recliner, 46" large seat, 60" love sofa, and 84" sofa. Four areas are reserved for handicap wheelchairs.
 - 8. Control Room for AV (audio and video) production for Theater and bar.
 - 9. Demo'd column with new horizontal cross support beam.



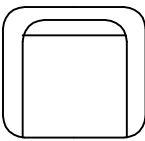
Theater Floor



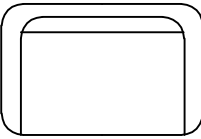
Theater Profile



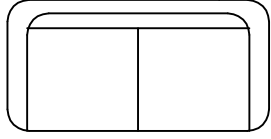
Handicap indicator



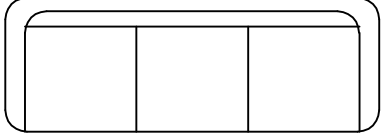
32" Lazyboy Chair or Recliner



46" seat



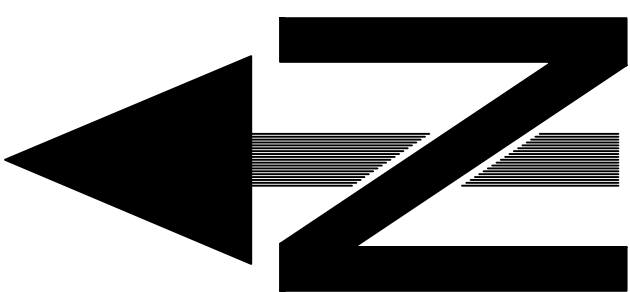
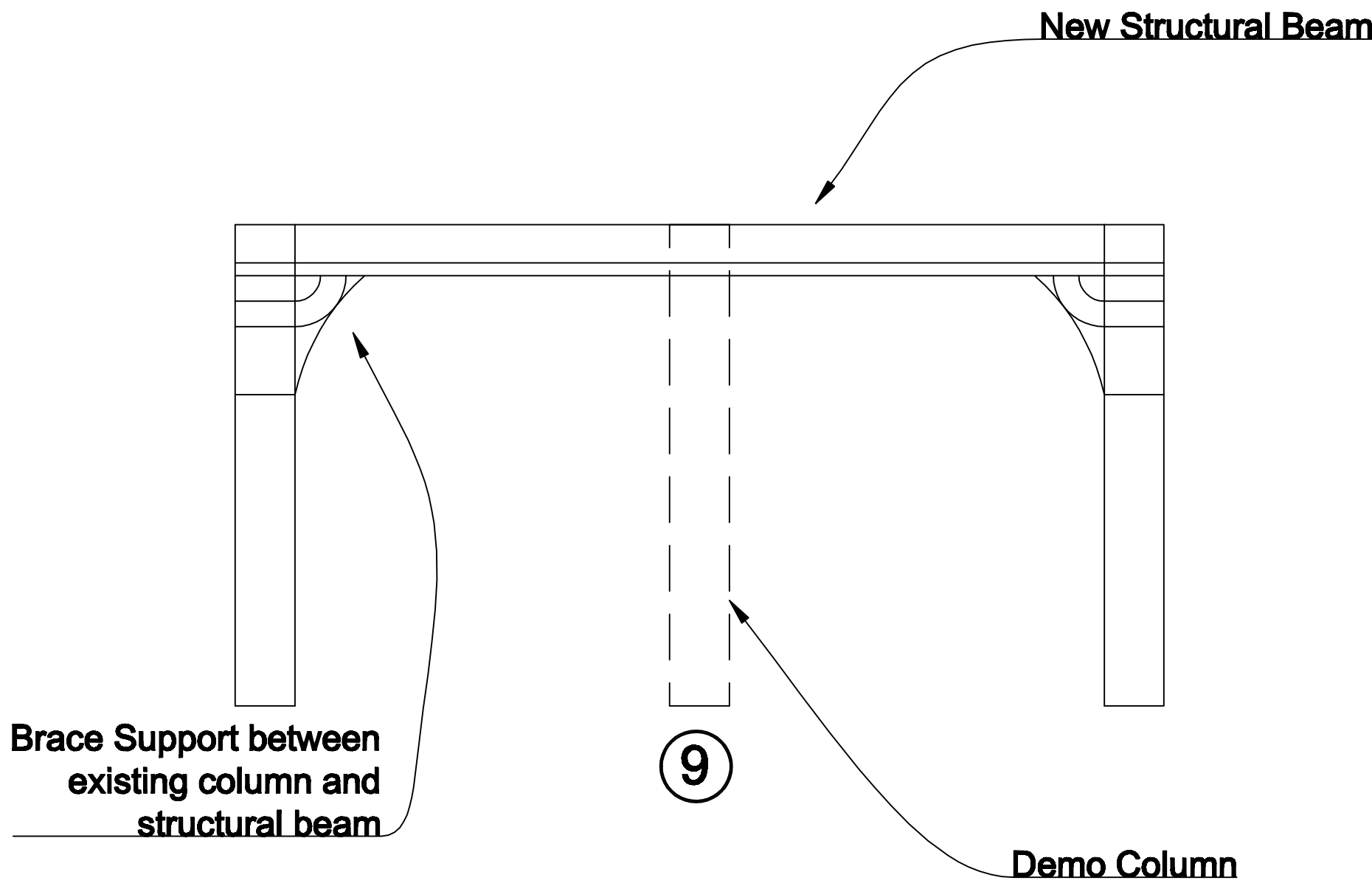
60" Love Sofa



84" Sofa



Aisle indicator



THEATER PLAN



The
Velvet Freeze Project
9150 E 41st Terrace
Kansas City, MO 64133
816-276-1400

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THIS PROJECT REPRESENTS THE
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DRAFTING & DESIGN CAPSTONE

AARON SMITH DAVID HOLDING
JOEY WRINKLE MONE'CA LANIER

STAMP

PROJECT NAME

THE
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KC, MO 64109

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DRAWING NAME

THEATER
PLAN

DRAWING NUMBER

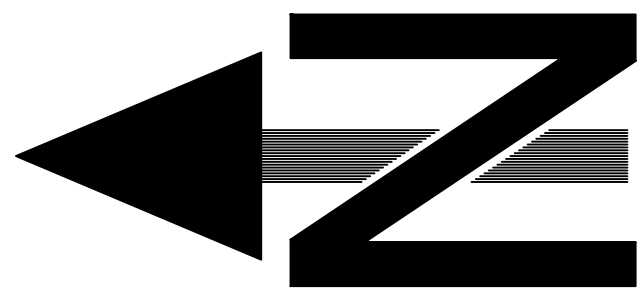
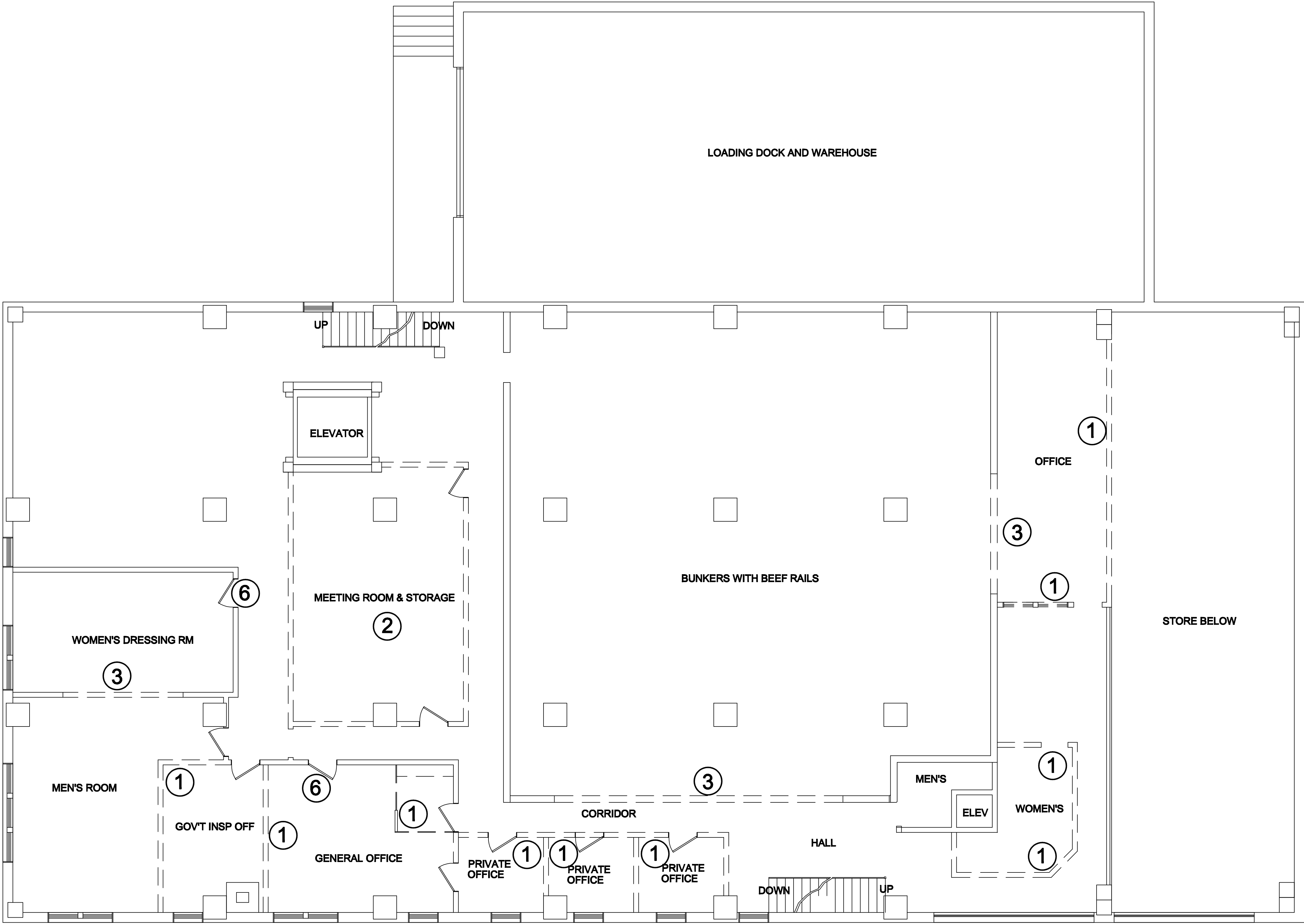
A-04 (2)

OF

MEZZANINE FLOOR DEMO PLAN

- AREAS
- A. Women's Dressing Room
 - B. Men's Room
 - C. Gov't Inspection Office
 - D. General Office
 - E. Elevator
 - F. Meeting Room & Storage
 - G. Private Office
 - H. Men's Toilet
 - I. Women's Rest Room
 - J. Store Below
 - K. Bunker's with Beef Rails

- DEMO
- 1. Demo wall and any installed doors or windows completely to open up space
 - 2. Demo structure completely
 - 3. Demo wall to install selected door or window as indicated
 - 4. Remove any filling done to original opening and prep for new door or window as noted
 - 5. Demo existing door and replace with wall
 - 6. Change opening for new or larger door or window
 - 7. Demo column and replace support with cross beam as indicated



MEZZANINE DEMO



The Velvet Freeze Project

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DRAWING NAME

MEZZANINE
DEMO

DRAWING NUMBER

A-05

____ OF ____

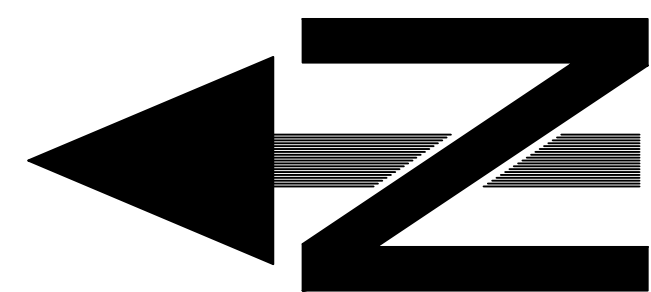
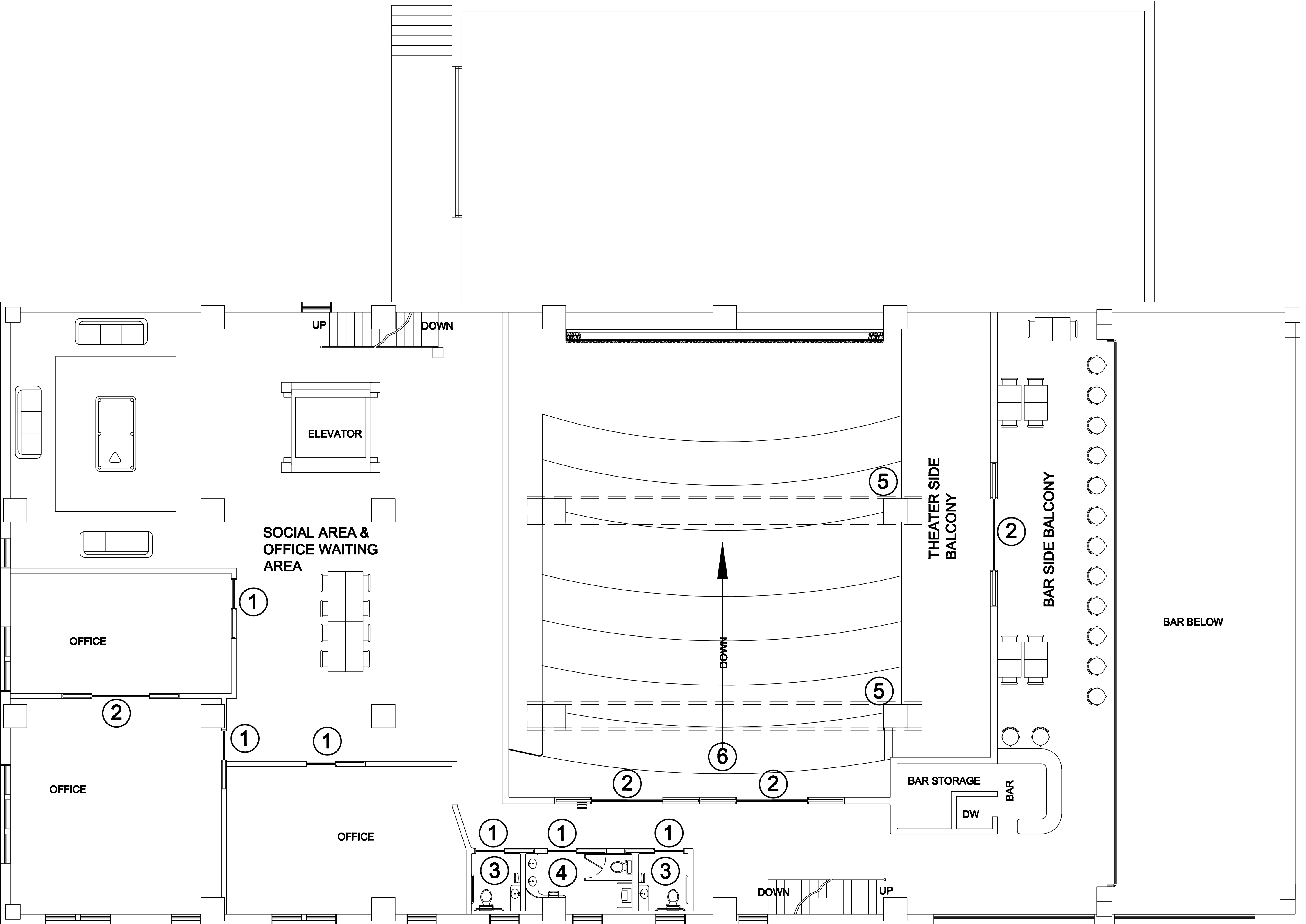
MEZZANINE PLAN

AREAS

- A. Office Space (rental and Velvet Freeze use)
- B. Handicap Restrooms (unisex)
- C. Men's Restrooms
- D. Social Area & Office Waiting Area
- E. Upper Theater Area
- F. Theater Side Balcony
- G. Bar Side Balcony
- H. Balcony Bar
- I. Bar Storage
- J. Open area of Velvet Freeze Bar below

DETAIL

- 1. Pocket door single slider
- 2. Pocket door double slider
- 3. Handicap Unisex restroom
- 4. Men's restroom
- 5. New support beams for ceiling
- 6. Top of theater risers



MEZZANINE PLAN



The Velvet Freeze Project

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MEZZANINE
PLAN

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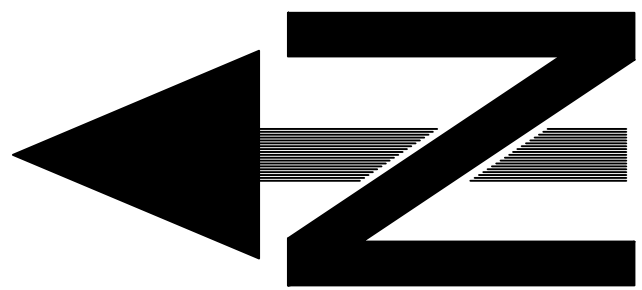
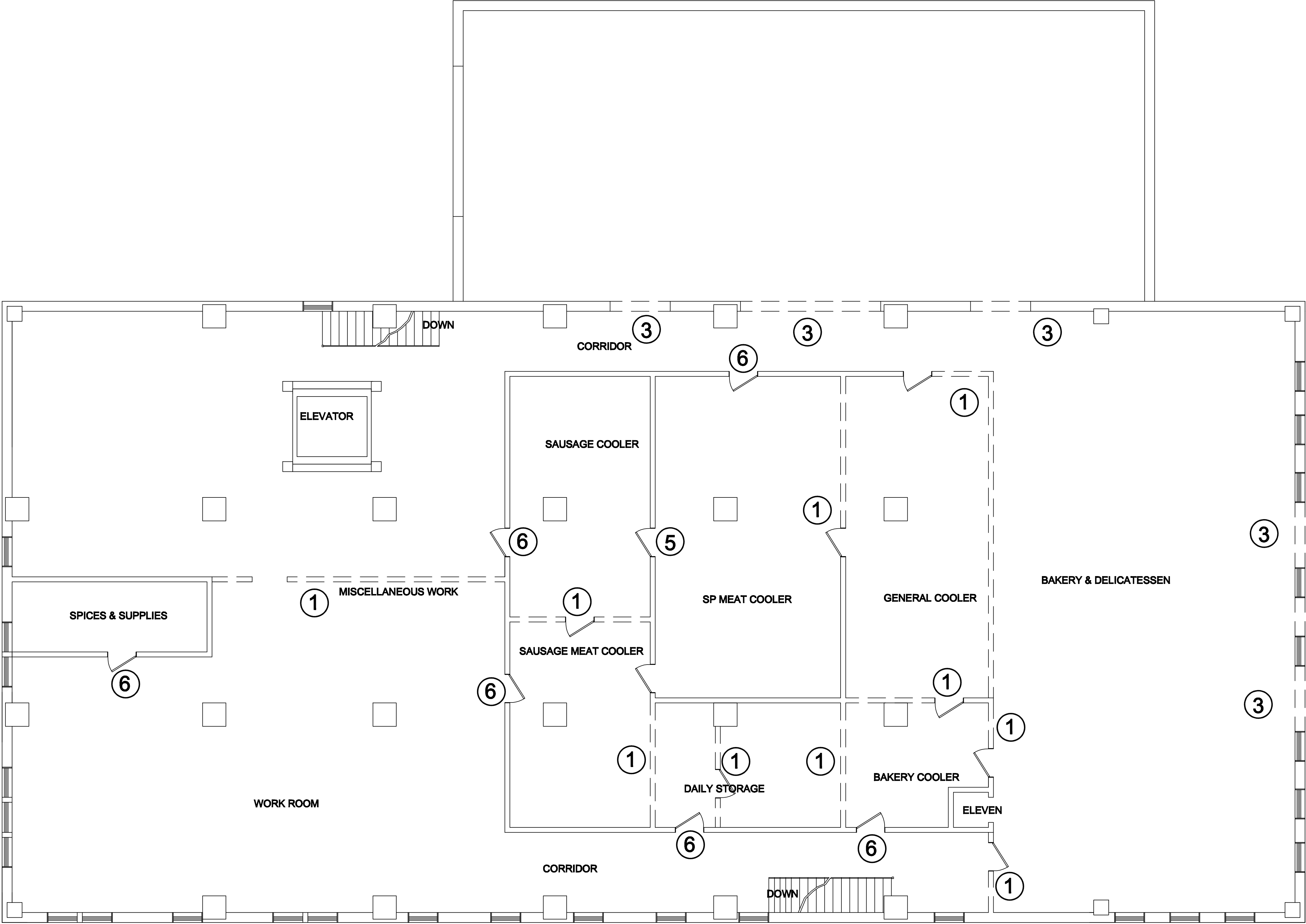
SECOND FLOOR DEMO PLAN

AREAS

- A.Spices & Supplies
- B.Miscellaneous Work Area
- C.Sausage Cooler
- D.SP Meat Cooler
- E. General Cooler
- F. Bakery & Delicatessen
- G.Bakery Cooler
- H.Daily Storage
- I. Sausage Meat Cooler

DEMO

- 1. Demo wall and any installed doors or windows completely to open up space
- 2. Demo structure completely
- 3. Demo wall to install selected door or window as indicated
- 4. Remove any filling done to original opening and prep for new door or window as noted
- 5. Demo existing door and replace with wall
- 6. Change opening for new or larger door or window
- 7. Demo column and replace support with cross beam as indicated



SECOND FLOOR DEMO



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2ND FLOOR
DEMO

DRAWING NUMBER

A-07

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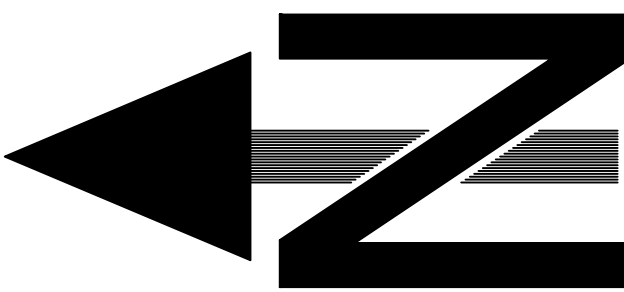
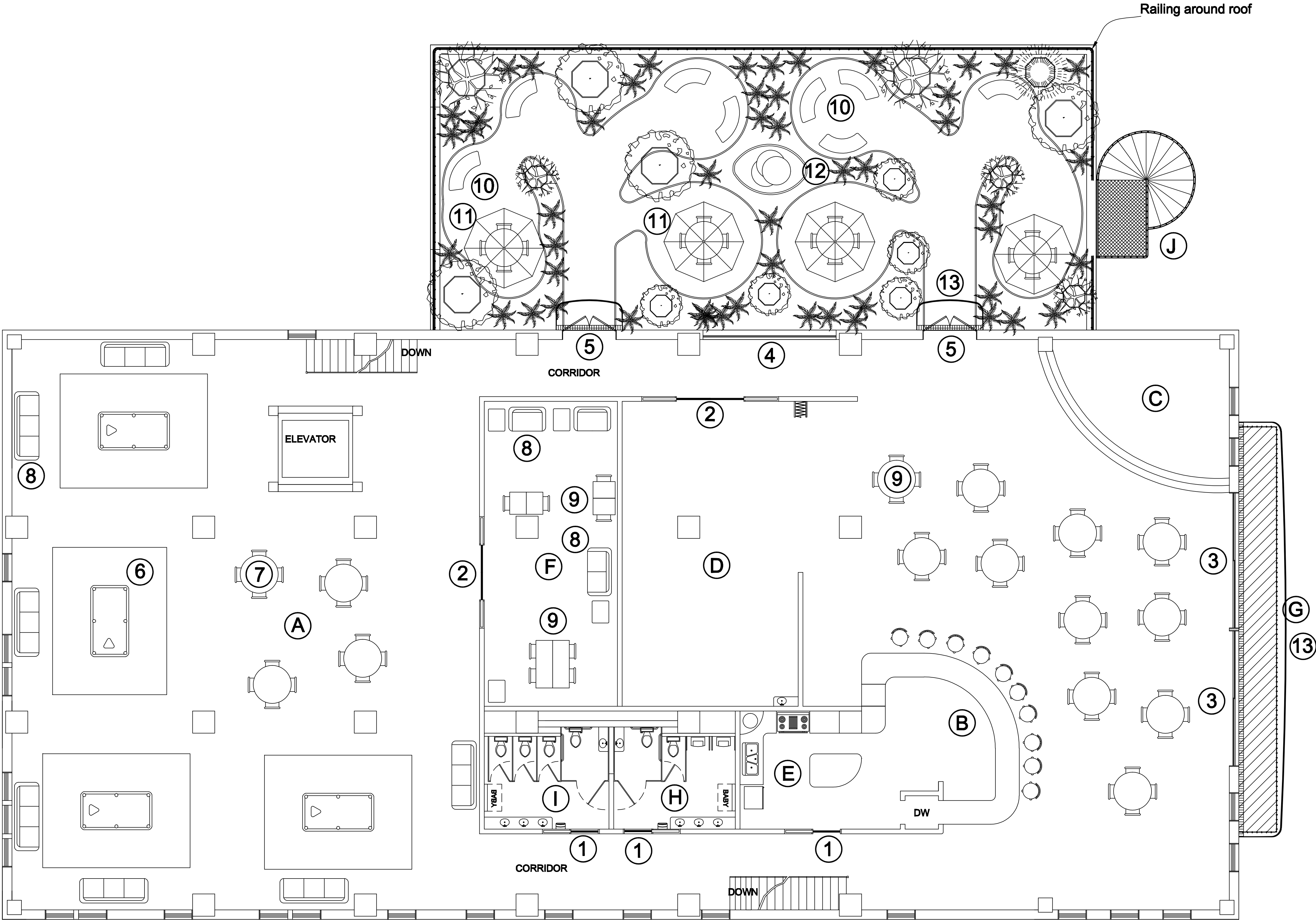
SECOND FLOOR PLAN

AREAS

- A. Games and Billiards
- B. Second Floor Bar
- C. Stage
- D. Green (state prep) Room & General Storage
- E. Quick Order Kitchen
- F. Internet Lounge
- G. French Balcony
- H. Men's restroom
- I. Women's restroom
- J. Fire Exit Ladder
- K. Second Floor Green Roof

DETAIL

- 1. Pocket Door single slider
- 2. Pocket Door Double Slider
- 3. Wide Patio Slider doors
- 4. 14' Window
- 5. Entry to Lower Roof Deck Double External Swing Door
- 6. Pool table and clearance space
- 7. Card and Game table
- 8. Sofa
- 9. General Table
- 10. Outdoor bench
- 11. Outdoor table & umbrella
- 12. Fountain
- 13. Awing



SECOND FLOOR PLAN



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2ND FLOOR
PLAN

DRAWING NUMBER

A-08

OF

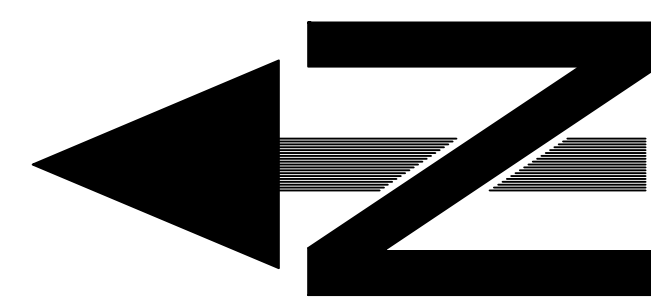
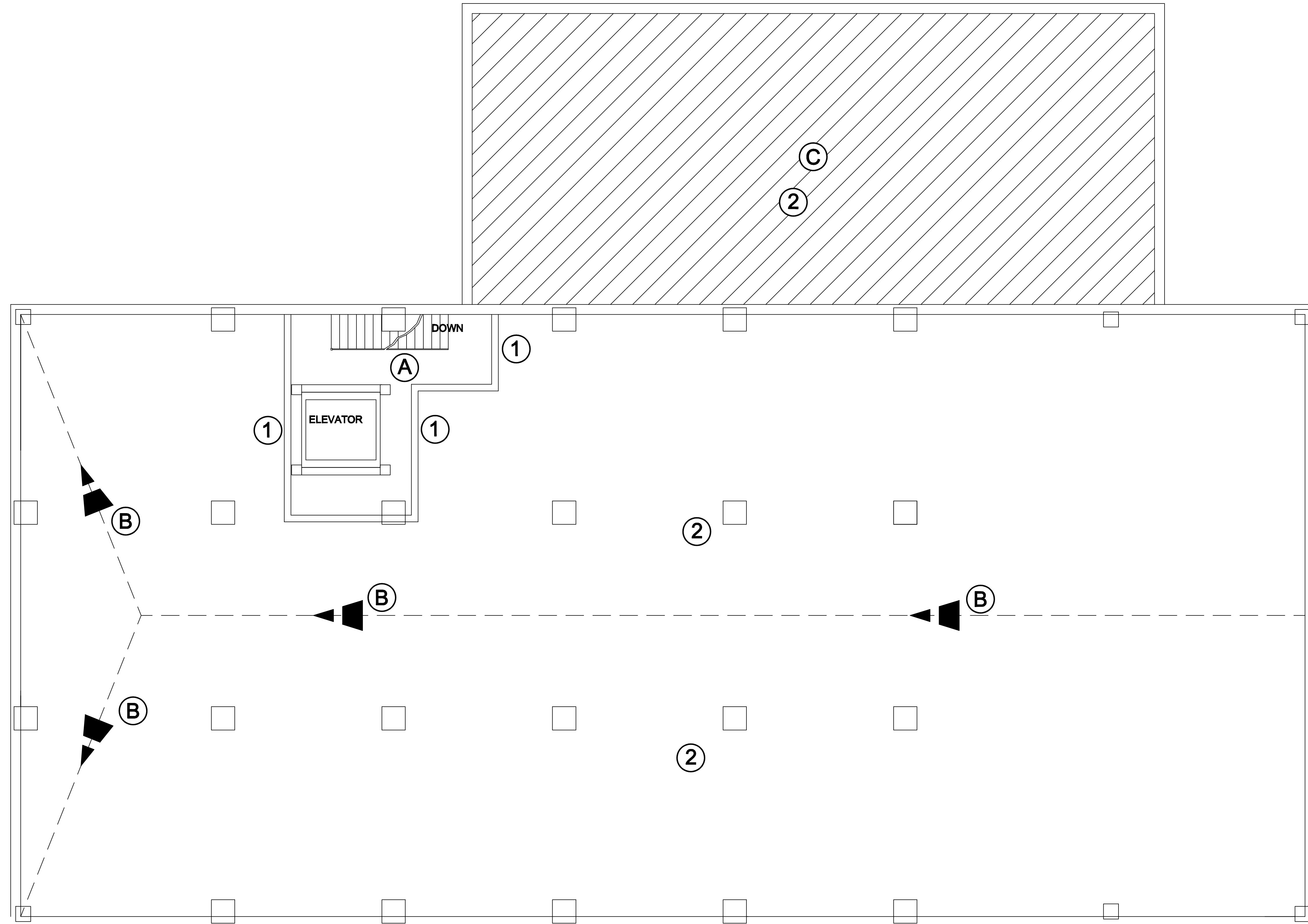
ROOF DEMO PLAN

AREAS

- A. Stairwell & Elevator Housing**
B. Roof Slope
C. Roof of Loading Dock and Warehouse

DEMO

1. Prepare or demo wall to install selected door or window as indicated.
2. Prepare area for decking



ROOF DEMO



The Velvet Freeze Project

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DRAWING NAME

ROOF DEMO

DRAWING NUMBER

A-09

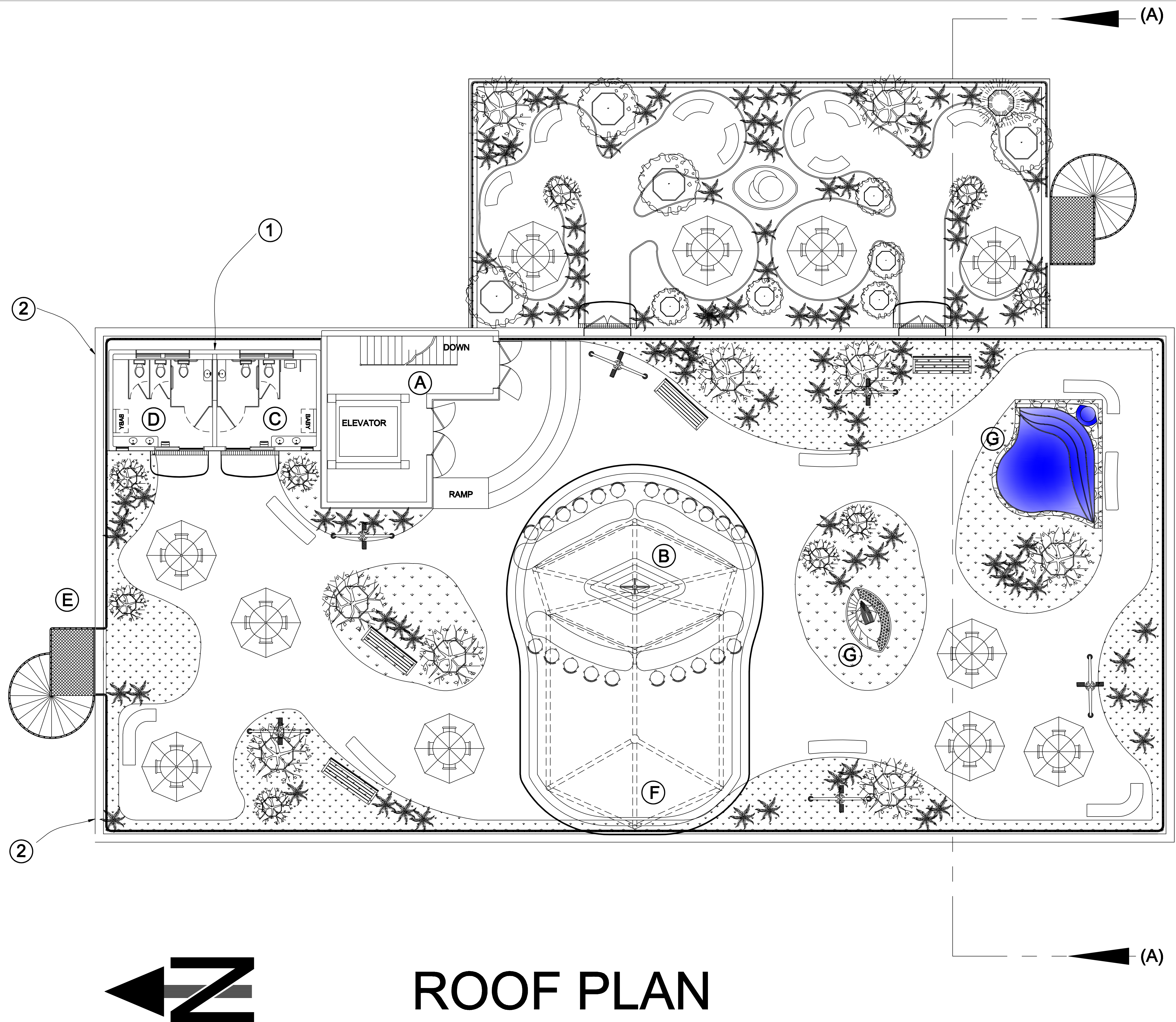
OF _____

AREAS

- A. Elevator and Stairwell entry
- B. Roof Bar with Canopy
- C. Men's Restroom
- D. Women's Restroom
- E. Fire Exit
- F. HDTV
- G. Fountain

DETAIL

1. An structure is added for the restrooms located on the northeast corner of the roof behind the elevator and stairwell structure. This is to take advantage of the existing chaseways for drainage.
2. Roof runoff is located at the northeast and northwest corner of the building where it drains through piping inside the building structure.
3. Green Roof System structure continues under decking and includes an irrigation system along the parapet
4. Water fountains are anchored to the roof and plumbing runs under deck just under green roof soil.
5. Bar canopy is anchored to the roof and provides shelter for large screen HDTV located on west end.
6. Various styles of bench seating and tables are positioned around deck and on grass.
7. Trees and large plants are container based for easy maintenance.
8. Solar powered light poles are distributed around the area mounted to the deck in some locations or mounted to maintenance posts that elevate them above the green roof top soil.



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DRAWING NAME

ROOF PLAN

PRAYING NUMBER

A-10

OF

ROOF GREEN ROOF SECTIONAL

AREAS

- A. Building interior
- B. Structural Columns
- C. Top Roof Deck

DETAIL A

LiveRoof DEEP SYSTEM
by LiveRoof, LLC

1. Insulation Adhesive
2. Insulation
3. Bonding Adhesive
4. EPDM, TPO or PVC Waterproofing Membrane
5. Minimum 40-mil Polypropylenes or EPDM Slip Sheet, Edges Overlapped & Seamed
6. LiveRoof Green Roof Plants (Minimum 95% Soil Coverage at Installation)
7. LiveRoof Engineered Soil, elevated during growing with Deep Soil Elevators (which are removed upon installation)
8. Moisture Portals
9. LiveRoof Standard Module
10. Deck is built on 8"x8" posts anchored to the roof where building structural columns provide support.
11. Top of deck sits approximatley 5" to 4" above top of soil.

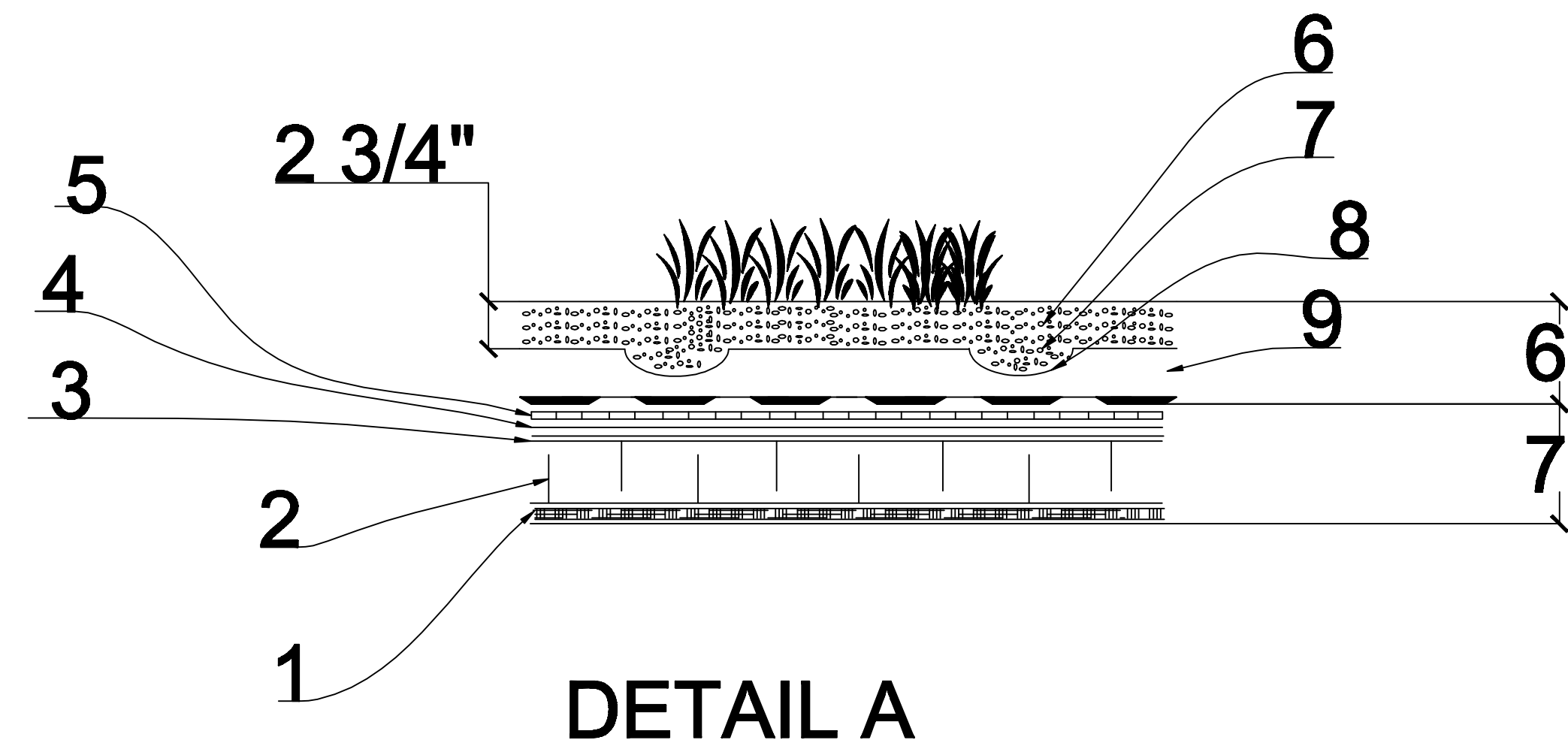
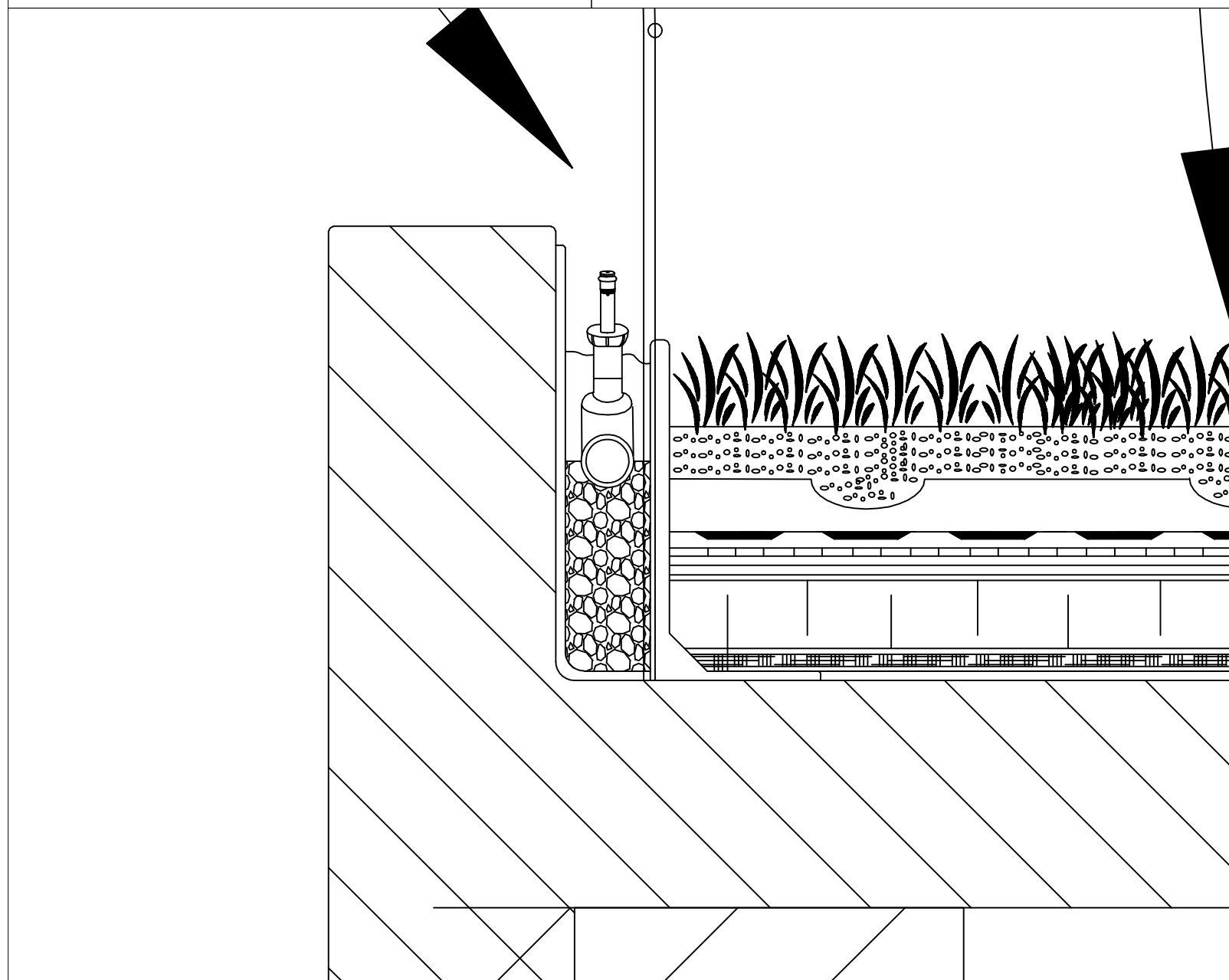
Green Roof System Detail A

Wood Deck

8x8 Deck
Support Column

Roof Railing

Sprinkler System



DETAIL A



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ROOF PLAN
SECTION

DRAWING NUMBER

A-11

OF