

CASE #PL2021-42

WALSER TOYOTA BLOOMINGTON, MN

Reviewed for Code Compliance
Date: 11/04/2022
By: K. Bayer
Plan # PRBD202210606

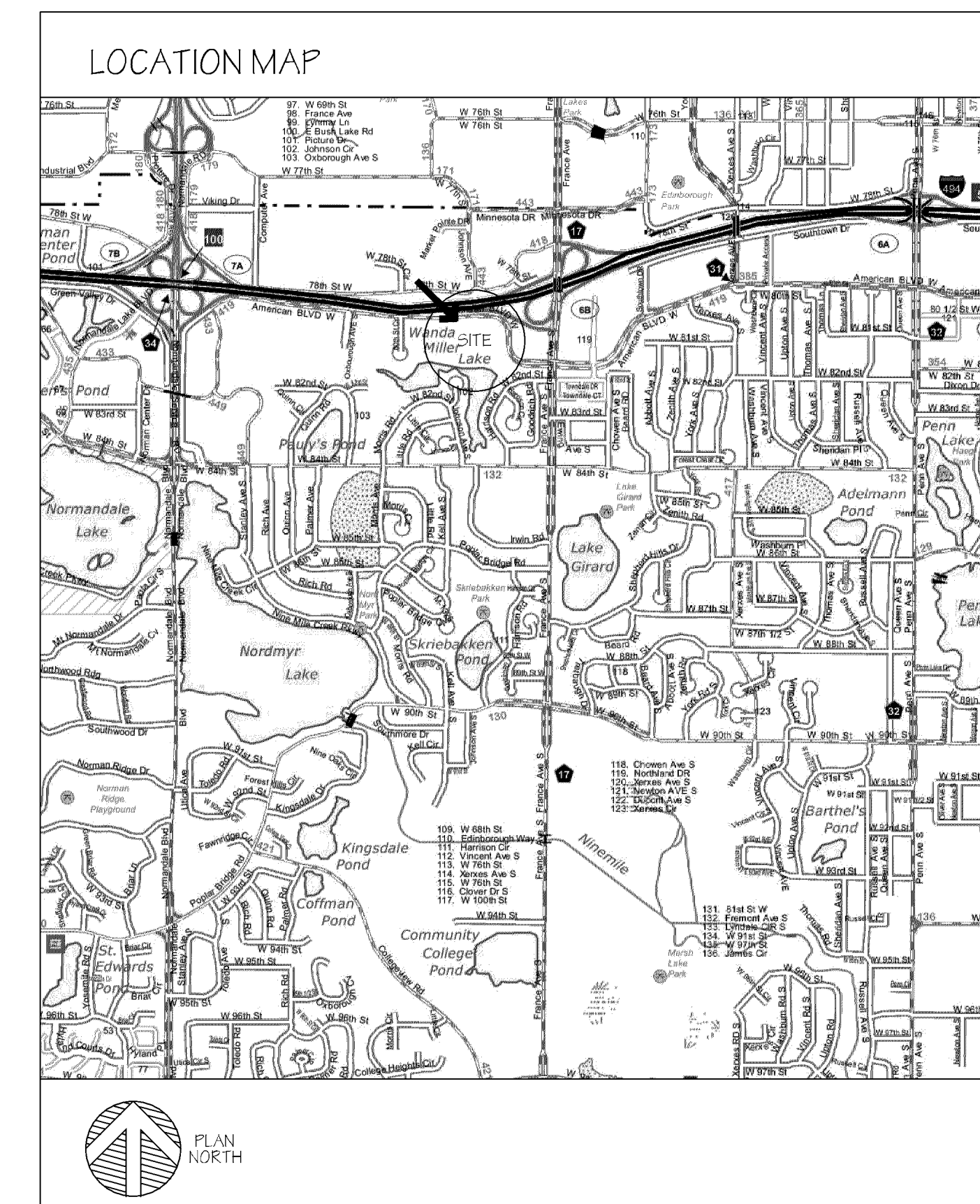
Any alterations to this plan must be submitted to the City Plans Examiner for review.

Must meet 2020 MN State Building Code

This plan must be maintained and accessible at the construction site for ALL inspections.

If any work is done that requires special inspections the special inspection form needs to be provided to the city plan reviewer. No work shall be covered prior to the City Inspector seeing the work done and viewing the completed special inspection results.

Separate permits required for Trades. Plans required for all trade permits with valuation greater than \$50,000.



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DRAWING SYMBOLS

[101]	ROOM NUMBER
[101]	DOOR NUMBER
[A1.0]	UPPER - DETAIL NUMBER (REFERENCE NUMBER) LOWER - DRAWING SHEET NUMBER
[ELEVATION VIEW]	ELEVATION VIEW ARROW SHOWS DIRECTION OF VIEW
[ELEVATION VIEW]	ELEVATION VIEW LETTERS INDICATE MULTIPLE VIEWS
[CROSS SECTION VIEW]	CROSS SECTION VIEW FLAG SHOWS DIRECTION OF VIEW
[PARTITION WALL TYPE]	PARTITION WALL TYPE
[NUMBERED NOTE - (DRAWING)]	NUMBERED NOTE - (DRAWING)
[XX-1]	MARKER - BUILDING MATERIAL SEE MATERIAL LIST
[Y-1]	MARKER - FINISH MATERIAL
[MASONRY WALL - PLAN VIEW]	MASONRY WALL - PLAN VIEW

2022 NEW BUILDING FOR:
WALSER TOYOTA
4401 AMERICAN BLVD
BLOOMINGTON, MINNESOTA

©2022 PHILLIPS ARCHITECTS & CONTRACTORS, LTD.

PHILLIPS ARCHITECTS & CONTRACTORS, LTD.

401 North Third Street
Suite 450
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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

David A. Phillips

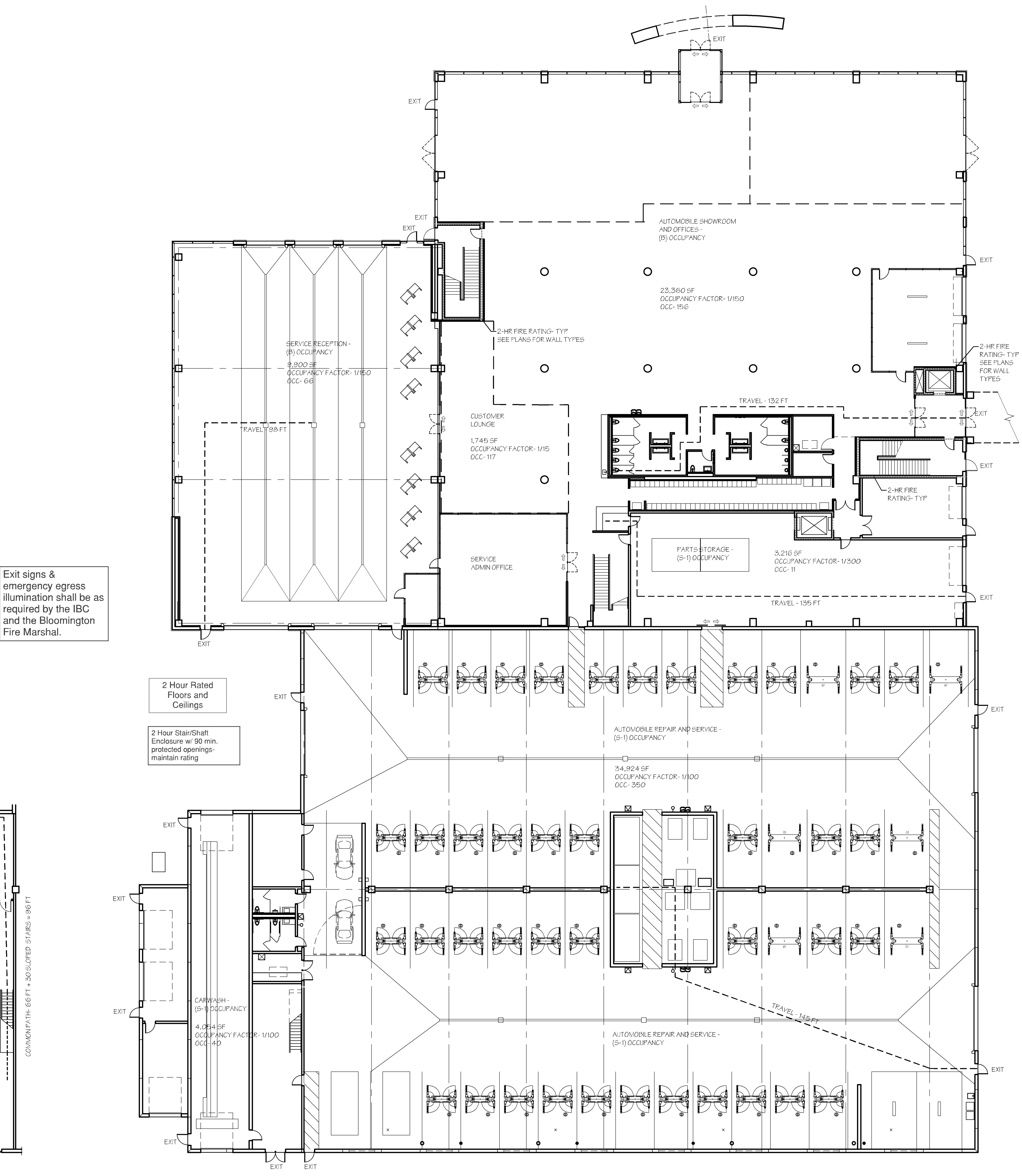
DATE: 7/31/2022 REG. NO.: 17587

ISSUE/REVISION:
7/31/2022 PERMIT

DRAWN BY:
CHECKED BY: DAP
PROJECT NO.:

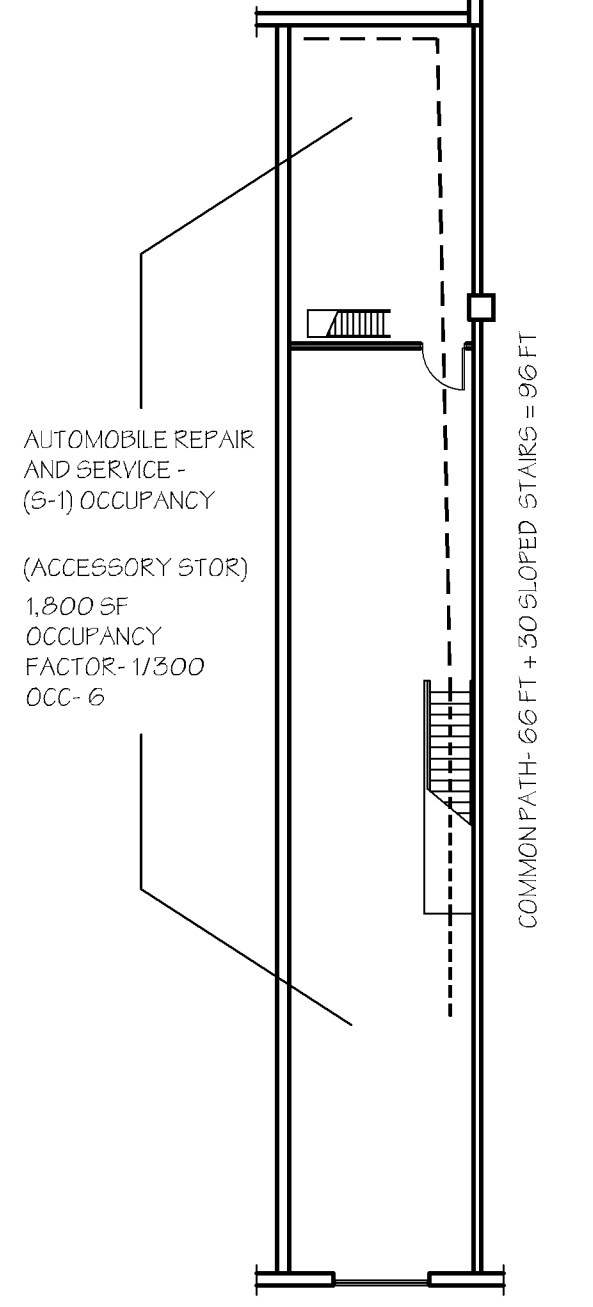
TITLE SHEET

A0.0



Exit signs & emergency egress illumination shall be as required by the IBC and the Bloomington Fire Marshal.

2 Hour Rated Floors and Ceilings
2 Hour Stair/Shaft Enclosure w/ 90 min. protected openings-maintain rating



2 STORAGE MEZZANINE
101 1/16" = 1'-0"

1 FIRST FLOOR PLAN
101 1/16" = 1'-0"

FIRST FLOOR SUMMARY	AREA	OCCUPANCY FACTOR	OCC
SERVICE RECEPTION	8,900	1/150	60
SHOWROOM & OFFICE	23,360	1/150	156
CUSTOMER LOUNGE	1,745	1/15	117
SUBTOTAL	34,465		333
PARTS STORAGE	3,216	1/300	11
SERVICE SHOP	34,824	1/100	350
CARWASH & EQUIP. INCL. GENERATOR & UTILITY	4,054	1/100	40
SUBTOTAL	42,735		401
TOTAL	77,200		

1005.3- EXIT WIDTH REQUIREMENTS	REQUIRED WIDTH	PROVIDED
66 OCC X 0.2	13.2 INCHES	2 X 33.5 = 67.0 INCHES
156 OCC X 0.2	31.2 INCHES	
117 OCC X 0.2	23.4 INCHES	
TOTAL: SHOWROOM, OFFICE, LOUNGE	54.6 INCHES	PROVIDED: 4 X 33.5 = 134.0 INCHES
363 OCC X 0.2	72.6 INCHES	PROVIDED: 4 X 33.5 = 134.0 INCHES

BUILDING AREA	AREA
FIRST FLOOR	77,200 SF
MEZZANINE	1,800 SF
SECOND FLOOR	21,383 SF
SKYWAY	750 SF
THIRD FLOOR	25,262 SF
TOTAL	126,395 SF

Walsler Toyota
4401 American Blvd
Bloomington, Minnesota

2020 Minnesota Building Code
Type of Construction: 3 Story Dealership Facility
Full Automatic Fire Sprinkler

Prepared by:
PHILLIPS Architects & Contractors, Inc.
401 North Third Street, Suite 450
Minneapolis, MN 55401

2018 International Building Code
Type I-B
126,395 Total SF
Reg. # 17357
David A. Phillips, Architect

Level	Actual SF
Main Level	77,200
Mezz at Shop	1,800
Second Floor	21,383
Skyway	750
Third Floor	25,262
Total	126,395

This building is certified as an unlimited non-separated occupancy building per Section 508.3. The occupancies are B, Motor vehicle showroom; S-1 Moderate hazard storage and motor vehicle repair garage. The carwash is classified as S-1 but could be B occ. The most restrictive occupancy is used to calculate the allowable square footage. Per 508.3.2 the building will have Non-Separated Occupancies. Because the building is B & S-1 and surrounded by permanent yards of more than 30' at all sides.

Table Reference	Group	Height / Stories	Actual Provided
Table 506.1	Group S-1 SM	Type I-B 144,000 SF	
Table 504.3	Group B, and S	S (Sprinkler) Type I-B 180 Feet	56 Feet
Table 504.4	Group S-1 (Most restrictive)	S (Sprinkler) Type I-B 12 Stories	3 Stories

Chapter 6 - Types of Construction
Per Table 601

Component	Rating	Duration
Primary Structural Frame	2 Hours	
Bearing walls- Exterior	2 Hours	
Bearing walls- Interior	2 Hours	
Nonbearing walls- Interior	0 Hours	
Floor constr. & secondary	2 Hours	
Roof constr. & secondary	1 Hour	

Per Table 602 there is a 0 hour rating required on all exterior walls.
Accessibility
Building is fully accessible at the First floor, Second floor and Third floor. The partial second floor Mezz at Shop is 1,800 square feet and does not require an accessible route per MN: 1104.4 Exception 1. (Less than 30 occupants)
Accessible toilets are provided at the First floor, Second floor, and Third floor.

Exiting number & distances:
Exit distance maximum of 250 feet per Table 1017.2 for S-1 and 300' for B. A maximum exit distance of less than 250' provided at all areas. The common path of travel is less than 100' all B and S areas per Table 1006.2.1, including to the bottom of the stairs at the second floor.

Plumbing Fixtures Required Per Table 2802.1

Category	Required	Law required
2 Business	Toilet required- 1 per 25 first 50 occupants 1 per 50 over 50 Lava required- 1 per 40 first 30 occupants 1 per 30 over 30 Drinking Fountains required- 1 per 100 occupants	
4 Storage & Auto Service	Toilet required- 1 per 100 Lava required- 1 per 100 Drinking Fountains required- 1 per 400	

Occupancy Type	Square Feet	# of Occupants	Required Toilets	Required Lavas	Required Drinking Fountains
B - Showroom & Office	81,962	1	962	10.12	6.5
S1 - Storage & Auto Service	44,533	1	405	2.02	2.0
Men			202		
Women			202		
# Required Totals			12	12	9
# Provided Totals (1 & 2 & 3)			15	17	13
# Provided Totals (1 & 2 & 3 & 4)			18	17	13

Additional Fixtures provided in Family restrooms & shower (Men) - (4) Toilets & (4) Lava (not in above totals)

Note (1) Required toilet in each men's room is a urinal.
Note (2) The main toilet rooms have trough sinks with (2) wash stations each.
Note (3) There are a high low pair in the showroom area as well as the shop. There are three coffee areas, one each floor, with tap water and bottled water. This would increase the count from 10 to 13.
Note (4) There are a utility sinks in the Janitor's closets, (2) at First floor, (1) at Second floor, and (1) at Third floor.

Two Building on a Single Lot.
These two buildings will count as two separate buildings, not one. Both are Type I-B construction. The parking ramp is not fire sprinklered, while the dealership building is fully fire sprinklered.

1. For this code review assume an imaginary line is 15' west of the furthest west wall of the parking ramp. This same imaginary line is 30' east of the furthest east wall of the dealership. (See 705.5 Building on the same lot.)
2. Per 705.5 the separation distance is greater than 10' in both cases. Any required fire resistance rating would be from the inside.

- a. Per Table 601 the structural elements including bearing walls are required to have 2-hour fire resistance rating. This requirement is met with precast walls, columns, and beams, and post-tensioned concrete roof construction provides the required 1-hour rating.
- b. Also, per Table 601 the roof construction is required to have a 1-hour rating. The concrete double T roof construction and post-tensioned concrete roof construction provides the required 1-hour rating.
- c. Per Table 602 the 1-B parking ramp with a separation greater than 10 feet is not required to have fire-resistance exterior walls. See Note c. Open parking garages complying with Section 406 shall not be required to have a fire-resistance rating.
- d. Per Table 602 the exterior walls on the dealership building regardless of construction type are not required to be fire-resistance rated because the separation distance is 30 feet or greater.
- e. Per 705.5 per note 7, a. The area of openings in an open parking structure with a fire separation distance of 10 feet or greater shall not be limited.
- f. Per the Table 705.5 there is no limit on unprotected openings in the dealership building because the separation distance is 30' or greater and this dealership building is fully fire sprinklered.

Skyway
3104.5.2 Alternative separation
The Dealership building and the Skyway pedestrian walkway are protected by automatic fire-sprinkler systems.
Per the Exception the Open parking ramp is not fire-sprinklered
3104.5.2.1 - The wall between the Dealership building and the Skyway shall be constructed to resist the passage of smoke

Atrium
404.5 Smoke control
An alternate design has been submitted to the City in lieu of the smoke control requirement
404.5 Interior finish
Finish of walls and ceilings of atrium shall be not less than Class B

Interior finishes
803.1.2 Interior wall and ceiling finishes shall be classified per ASTM E84 or UL 723
Class A Flame spread index 0-25
Smoke-developed index 0-450
Class B Flame spread index 26-75
Smoke-developed index 0-450
All interior wall and ceiling finishes in spaces open to the atrium shall be Class B or better

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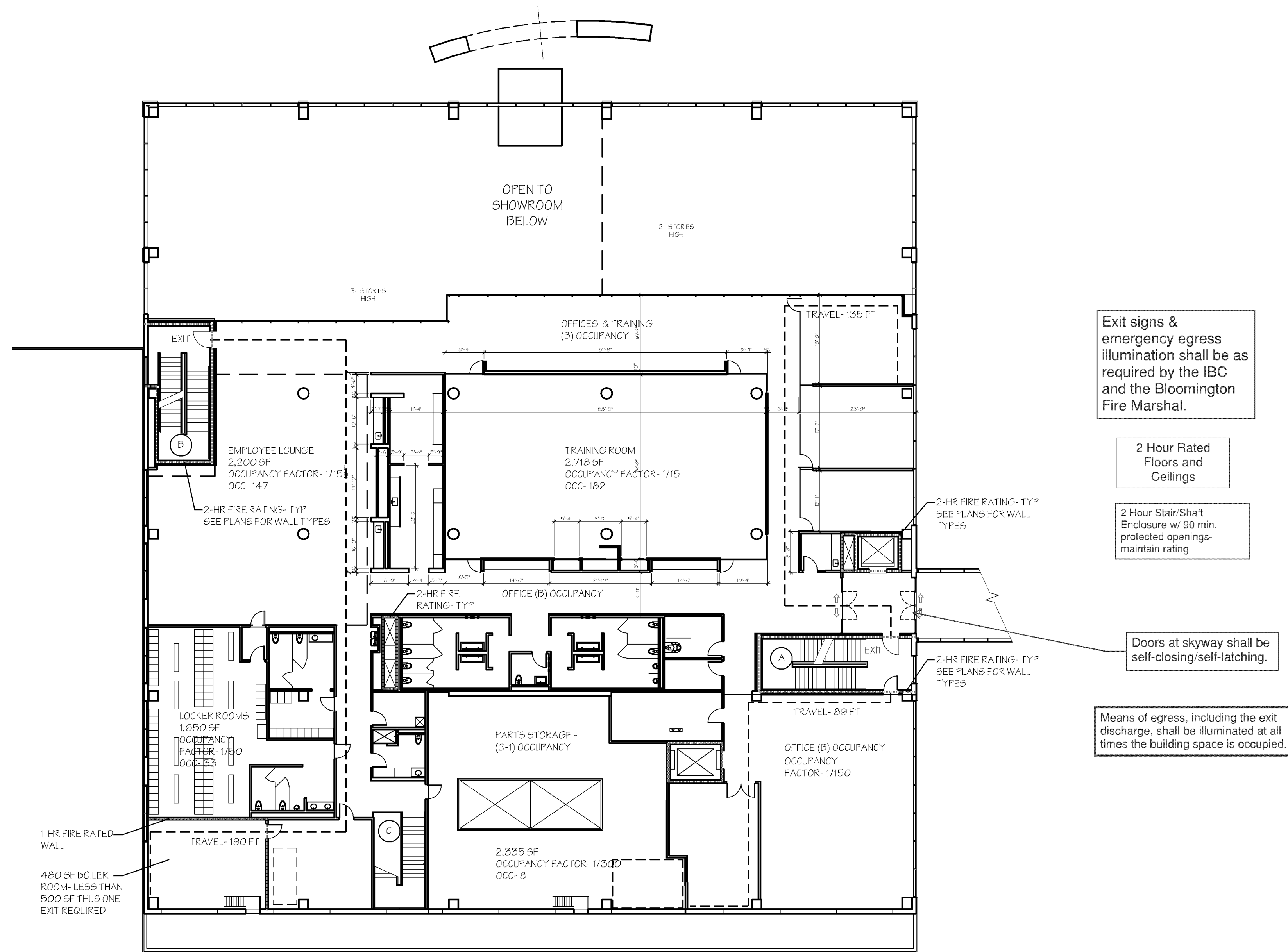
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David A. Phillips

DATE: 7/15/2022 REG. NO.: 11207
ISSUE/REVISION:
7/15/2022 PERMIT
8/19/2022 UPDATE PERMIT COMMENTS
10/26/2022 ADD ATRIM NOTES

DRAWN BY: DAP
CHECKED BY: DAP
PROJECT NO.:

CODE REVIEW

A0.1



Exit signs & emergency egress illumination shall be as required by the IBC and the Bloomington Fire Marshal.

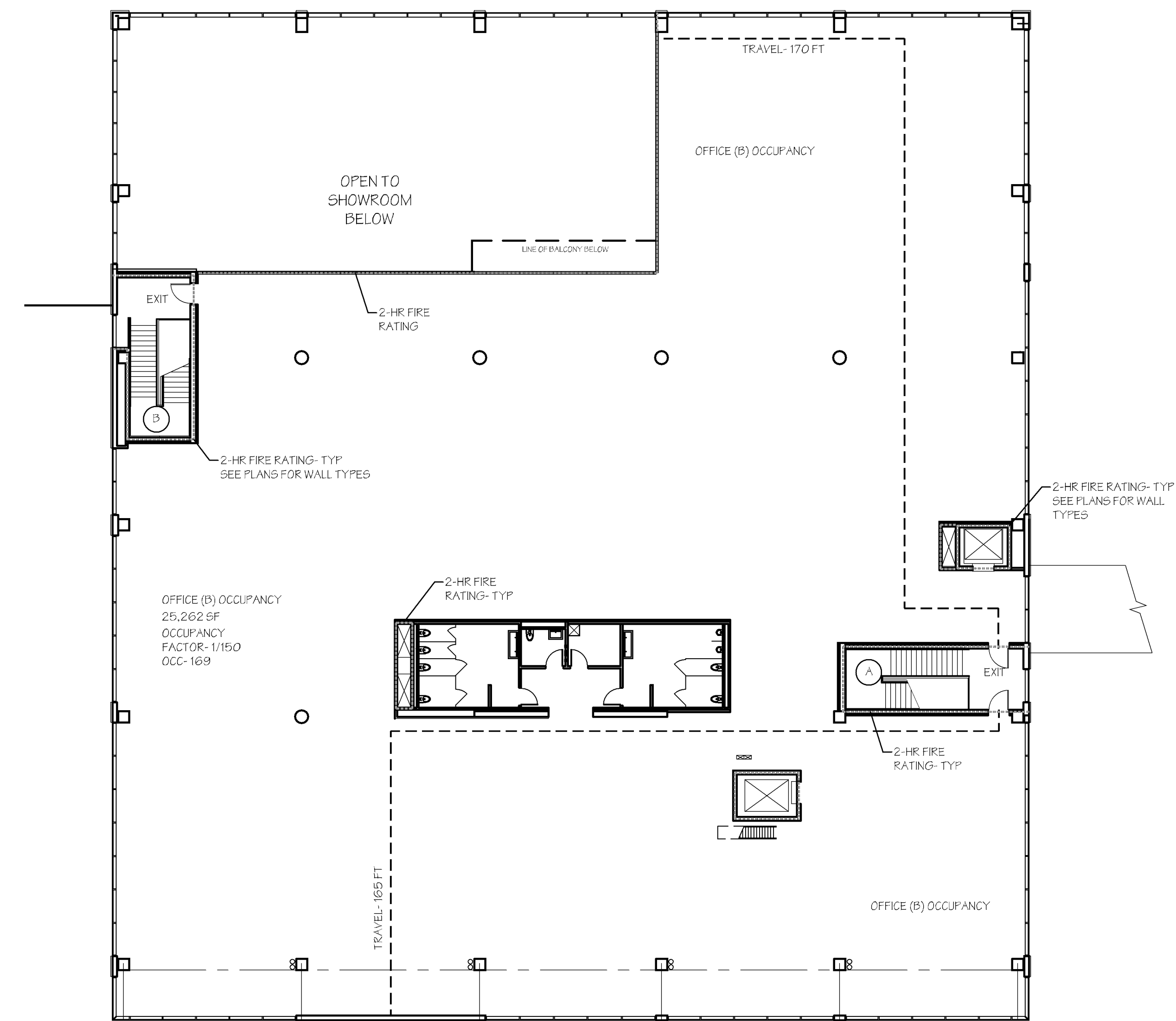
2 Hour Rated Floors and Ceilings

2 Hour Stair-Shaft Enclosure w/ 90 min. protected openings-maintain rating

Doors at skyway shall be self-closing/self-latching.

Means of egress, including the exit discharge, shall be illuminated at all times the building space is occupied.

2 SECOND FLOOR PLAN
1/16" = 1'-0" NORTH



3 THIRD FLOOR PLAN
1/16" = 1'-0" NORTH

SECOND FLOOR SUMMARY	AREA	OCCUPANCY FACTOR	OCC
EMPLOYEE LOUNGE	2,200	1/15	147
TRAINING ROOM	2,715	1/15	182
LOCKER ROOMS	1,650	1/50	33
PARTS STORAGE	2,335	1/200	8
OFFICE (GROSS AREA)	12,480	1/150	84
TOTALS	21,365		454

WITH VOICE ALARM & COMMUNICATION SYSTEM PER EXCEPTION - 1	
1005.5- EXIT WIDTH REQUIREMENTS	
REQUIRED WIDTH	STAIRS
SPRINKLERED- EXCEPTION 1 THIS- (VOICE ALARM) 454 OCC X 0.2 90.8 INCHES	
REQUIRED WIDTH	OTHER (DOORS)
SPRINKLERED- EXCEPTION 1 THIS- (VOICE ALARM) 454 OCC X 0.15 68.1 INCHES	
PROVIDED WIDTH	STAIRS
STAIR- A	57.0 INCHES
STAIR- B	57.0
SUBTOTAL	114.0 INCHES
PROVIDED WIDTH	OTHER (DOORS)
CLEAR WIDTH- DOOR STAIR- A	39.5 INCHES
CLEAR WIDTH- DOOR STAIR- B	39.5
SUBTOTAL	79.0 INCHES

NO EXCEPTION - 1	
1005.5- EXIT WIDTH REQUIREMENTS	
REQUIRED WIDTH	STAIRS
454 OCC X 0.3 136.2 INCHES	
REQUIRED WIDTH	OTHER (DOORS)
454 OCC X 0.2 90.8 INCHES	
PROVIDED WIDTH	STAIRS
STAIR- A	57.0 INCHES
STAIR- B	57.0
SUBTOTAL	114.0 INCHES
STAIR- C	57.0
TOTAL	171.0 INCHES
PROVIDED WIDTH	OTHER (DOORS)
CLEAR WIDTH- DOOR STAIR- A	39.5 INCHES
CLEAR WIDTH- DOOR STAIR- B	39.5
SUBTOTAL	79.0 INCHES
CLEAR WIDTH- ACCESS STAIR- C	57.0
TOTAL	136.0 INCHES

1005.5- DISTRIBUTION OF EXIT WIDTH REQUIREMENTS
WHEN AN EXIT IS BLOCKED, REMAINING EXIT WIDTH MUST BE GREATER THAN 50 PERCENT OF THE REQUIREMENTS

50 PERCENT STAIRS-	74.4 INCHES
50 PERCENT OTHER (STAIR DOORS)-	49.0 INCHES
SUBTOTAL WIDTHS PROVIDED EXCEED 50 PERCENT-	

THIRD FLOOR SUMMARY	AREA	OCCUPANCY FACTOR	OCC
OFFICE (GROSS AREA)	25,262	1/150	169
TOTALS	25,262		169

WITH VOICE ALARM & COMMUNICATION SYSTEM PER EXCEPTION - 1	
1005.5- EXIT WIDTH REQUIREMENTS	
REQUIRED WIDTH	STAIRS
SPRINKLERED- EXCEPTION 1 THIS- (VOICE ALARM) 169 OCC X 0.2 33.8 INCHES	
REQUIRED WIDTH	OTHER (DOORS)
SPRINKLERED- EXCEPTION 1 THIS- (VOICE ALARM) 169 OCC X 0.15 25.4 INCHES	
PROVIDED WIDTH	STAIRS
STAIR- A	57.0 INCHES
STAIR- B	57.0
SUBTOTAL	114.0 INCHES
PROVIDED WIDTH	OTHER (DOORS)
CLEAR WIDTH- DOOR STAIR- A	39.5 INCHES
CLEAR WIDTH- DOOR STAIR- B	39.5
SUBTOTAL	79.0 INCHES

NO EXCEPTION - 1	
1005.5- EXIT WIDTH REQUIREMENTS	
REQUIRED WIDTH	STAIRS
169 OCC X 0.3 50.7 INCHES	
REQUIRED WIDTH	OTHER (DOORS)
169 OCC X 0.2 33.8 INCHES	
PROVIDED WIDTH	STAIRS
STAIR- A	57.0 INCHES
STAIR- B	57.0
SUBTOTAL	114.0 INCHES
PROVIDED WIDTH	OTHER (DOORS)
CLEAR WIDTH- DOOR STAIR- A	39.5 INCHES
CLEAR WIDTH- DOOR STAIR- B	39.5
SUBTOTAL	79.0 INCHES

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David A. Phillips

DATE: 7/15/2022 REG. NO. 17387
ISSUE/REVISION:
7/15/2022 PERMIT
8/19/2022 UPDATE - PERMIT COMMENTS

DRAWN BY: DAP
CHECKED BY: DAP
PROJECT NO.:
CODE REVIEW

A0.2

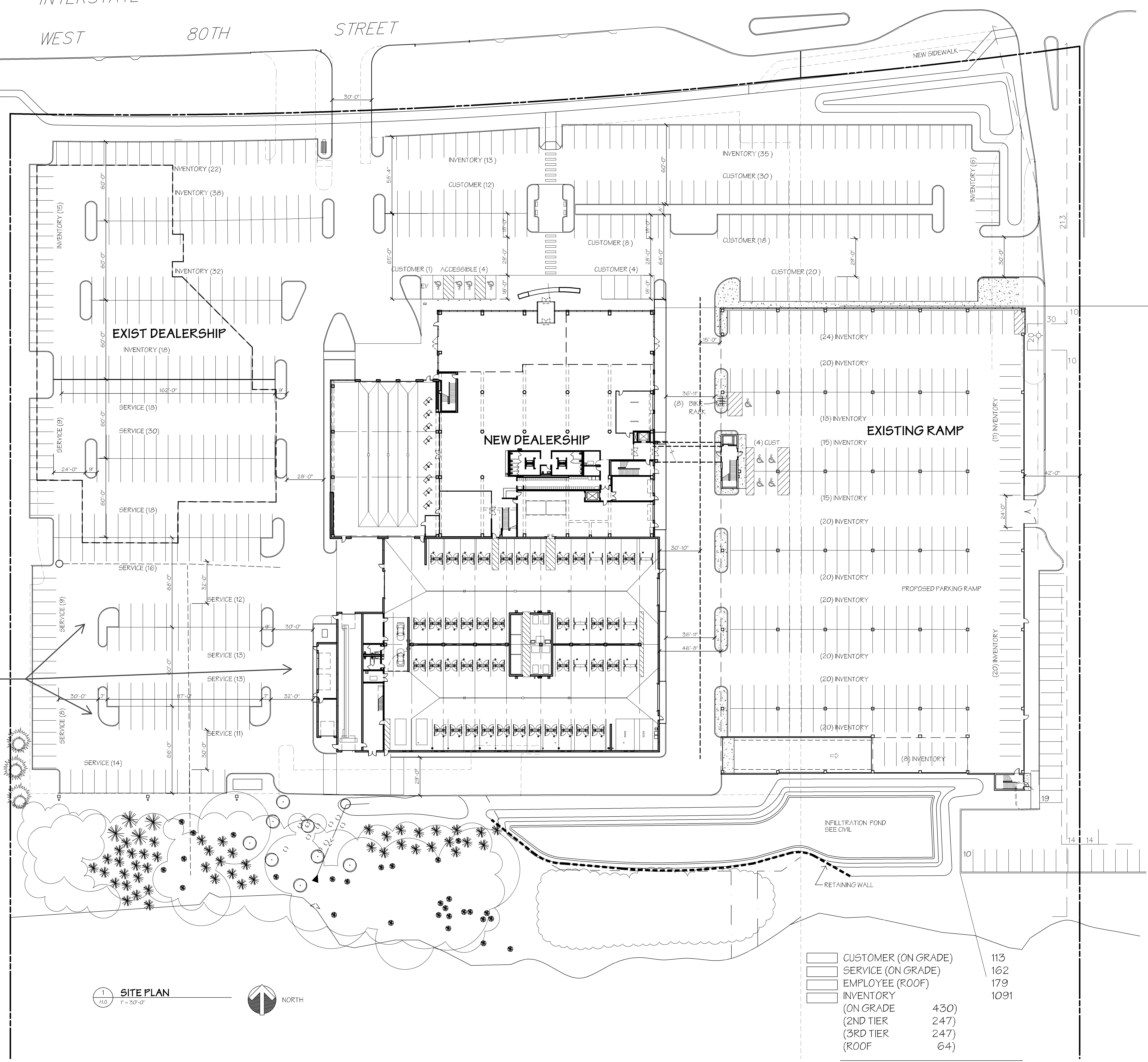
INTERSTATE HIGHWAY NO. 494
WEST 80TH STREET

HOLIDAY OFFICE PARK ADDITION

FOUNTAIN LAKE 1ST ADDITION

All accessible parking spaces for public use shall be 8'x18' and striped in white.
Provide required accessible stalls per 2020 MN State Accessibility code.
For every 6 or fraction of 6 accessible spaces, at least one shall be a van-accessible parking space.
Per 502.7 of 2020 MN Accessibility Code: Signs shall be centered at the head end of the parking space a maximum of 36 inches from the head of the parking space, and be mounted 60 inches minimum and 66 inches maximum above the floor of the parking space, measured to the bottom of the sign.

Note: There is minor discrepancy between the architectural site plan and civil site plan in this area related to drive aisle width and number of parking stalls. The civil site plan prevails or supersedes the architectural site plan.



1 SITE PLAN
1" = 30'-0"
NORTH

CUSTOMER (ON GRADE)	113
SERVICE (ON GRADE)	162
EMPLOYEE (ROOF)	179
INVENTORY (ON GRADE)	1091
INVENTORY (2ND TIER)	430
INVENTORY (3RD TIER)	247
INVENTORY (ROOF)	64
TOTAL	1,442

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DATE: 7/31/2022 REG. NO.: 17587
ISSUE/REVISION:
7/31/2022 PERMIT

DRAWN BY: DAF
CHECKED BY: DAF
PROJECT NO.:
SITE PLAN

A1.0

CASE #PL2021-42

NOTES

- SEE DRAWING SHEET A2.21 FOR DESCRIPTION OF WALL TYPES - TYP

NUMBERED NOTES

- TRENCH DRAIN - PREFABRICATED UNIT BY ZURN SERVICE RECEPTION #126- STAINLESS STL COVER GRATE - SMALL HOLES
- DELIVERY #104- CAST IRON COVER GRATE - STAINLESS STL COVER GRATE - SMALL HOLES
- PROPOSED LOCATION OF FLAMMABLE WASTE TRAP - VERIFY TRANSITION BETWEEN FLOOR FINISH MATERIALS
- LINE OF GWB CEILING SOFFIT AT 9'-0" AFF
- NOT USED
- 6' X 7' WALK-OFF ENTRY MAT - RECESSED CONCRETE FLOOR SLAB WITH FLOOR DRAIN
- PROPOSED LOCATION OF UNDERGROUND WATER RECLAIM TANKS - (SEE CARWASH DRAWINGS)
- PROPOSED LOCATION OF "PULL-THRU" TYPE CARWASH EQUIPMENT DESIGN BUILD BY CARWASH SUPPLIER
- PRESSURE WASHER - BY OTHERS
- EYE WASH STATION & SHOWER
- NOT USED
- THROUGH-THE-WALL "KEY DROP" BOX - VERIFY DESIGN, SIZE, AND LOCATION WITH OWNER

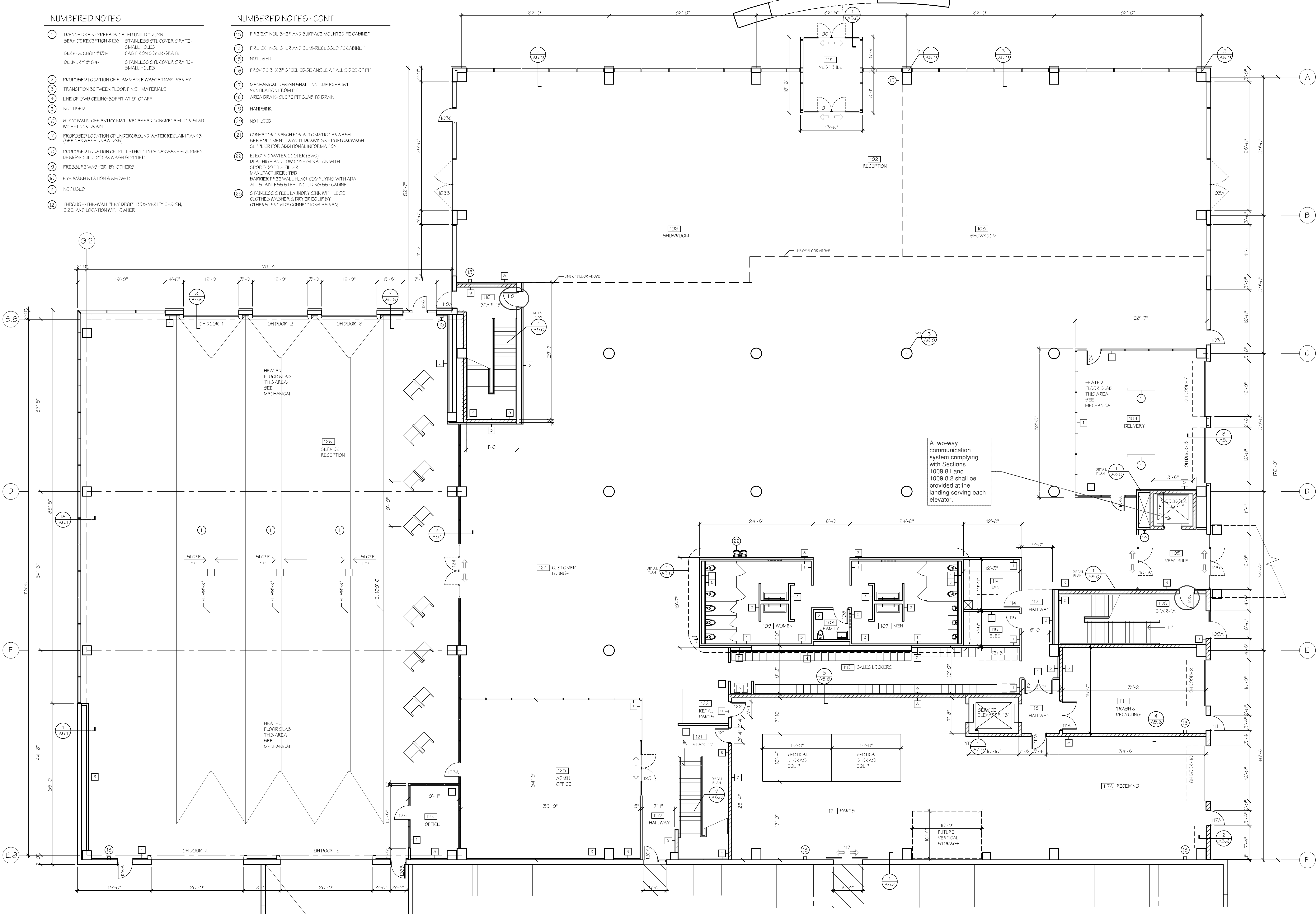
NUMBERED NOTES- CONT

- FIRE EXTINGUISHER AND SURFACE MOUNTED FE CABINET
- FIRE EXTINGUISHER AND SEMI-RECESSED FE CABINET
- NOT USED
- PROVIDE 3" X 3" STEEL EDGE ANGLE AT ALL SIDES OF PIT
- MECHANICAL DESIGN SHALL INCLUDE EXHAUST VENTILATION FROM PIT
- AREA DRAIN - SLOPE PIT SLAB TO DRAIN
- HANDSINK
- NOT USED
- CONVEYOR TRENCH OR AUTOMATIC CARWASH - SEE EQUIPMENT LAYOUT DRAWINGS FROM CARWASH SUPPLIER FOR ADDITIONAL INFORMATION
- ELECTRIC WATER COOLER (EWC) - DUAL HIGH AND LOW CONFIGURATION WITH SPORT-BOTTLE FILLER
- MANUFACTURER, 1 TPO BARBER TREE WALL HUNG COMPLYING WITH ADA
- ALL STAINLESS STEEL INCLUDING SS- CABINET
- STAINLESS STEEL LAUNDRY BSK WITH LEGS CLOTHES WASHER & DRYER EQUIP BY OTHERS - PROVIDE CONNECTIONS AS REQ

Fire and Life Safety System Requirements (Sprinklers, fire alarms, horns, strobes, etc) to be reviewed and approved by the Fire Marshal.

WALL TYPES

- PARTITION WALL - NON-RATED - 4 7/8" THICK
5/8" TYPE X GWB EACH SIDE
3-5/8" MTL STUDS AT 24" OC
FROM FLOOR TO ROOF DECK OR CONCRETE STRUCTURE ABOVE
ACOUSTIC SOUND BATT INSULATION, FULL HEIGHT
- FURRING WALL - NON-RATED - 4 1/4" THICK
5/8" TYPE X GWB ONE SIDE ONLY
3-5/8" MTL STUDS AT 24" OC
FROM FLOOR TO 12" ABOVE FINISHED CLG
- FLIMBING WALL - NON-RATED
5/8" TYPE X GWB
3-5/8" MTL STUDS AT 16" OC
FROM FLOOR TO 12" ABOVE FINISHED CLG
- PARTITION WALL - NON-RATED - 8" THICK OVERALL
(2) LAYERS 5/8" TYPE X GWB EACH SIDE
(2) ROWS 3-5/8" MTL STUDS AT 16" OC STAGGERED
N 6" STL TRACK AND ACOUSTICAL INSULATION
- PARTITION WALL - NON-RATED - 7 5/8" THICK
9" CMU REINFORCED MASONRY
FROM FOOTING TO PRECAST OR ROOF DECK ABOVE (LND)
- BONDED WALL FINISH - NON-RATED
5/8" GWB APPLIED DIRECTLY TO FACE OF CONCRETE OR MASONRY
FROM FLOOR TO 3" ABOVE FINISHED CEILING
- PARTITION WALL - NON-RATED - 7 1/4" THICK
5/8" TYPE X GWB EACH SIDE
6" MTL STUDS AT 16" OC
FROM FLOOR TO ROOF DECK
ACOUSTIC SOUND BATT INSULATION, FULL HEIGHT



FIRST FLOOR PLAN
12.21
1/8" = 1'-0"

APPROVED
Zoning Review Only
11/07/2022 NMJ

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David A. Phillips

DATE: 7/31/2022 REG. NO. 17387
ISSUE/REVISION:
7/31/2022 PERMIT

DRAWN BY: DAP
CHECKED BY: DAP
PROJECT NO.:
FIRST FLOOR PLAN

A2.01

APPROVED
Zoning Review Only
11/07/2022 NMJ

NUMBERED NOTES

- 1 TRENCH DRAIN- PREFABRICATED UNIT BY ZURN SERVICE RECEPTION #126- STAINLESS STL COVER GRATE - SMALL HOLES (SEE CARWASH DRAWINGS)
- 2 SERVICE SHOP #134- CAST IRON COVER GRATE DELIVERY #104- STAINLESS STL COVER GRATE - SMALL HOLES
- 3 PROPOSED LOCATION OF FLAMMABLE WASTE TRAP- VERIFY
- 4 TRANSITION BETWEEN FLOOR FINISH MATERIALS
- 5 LINE OF GWB CEILING SOFFIT AT 9'-0" AFF
- 6 NOT USED

NUMBERED NOTES- CONT

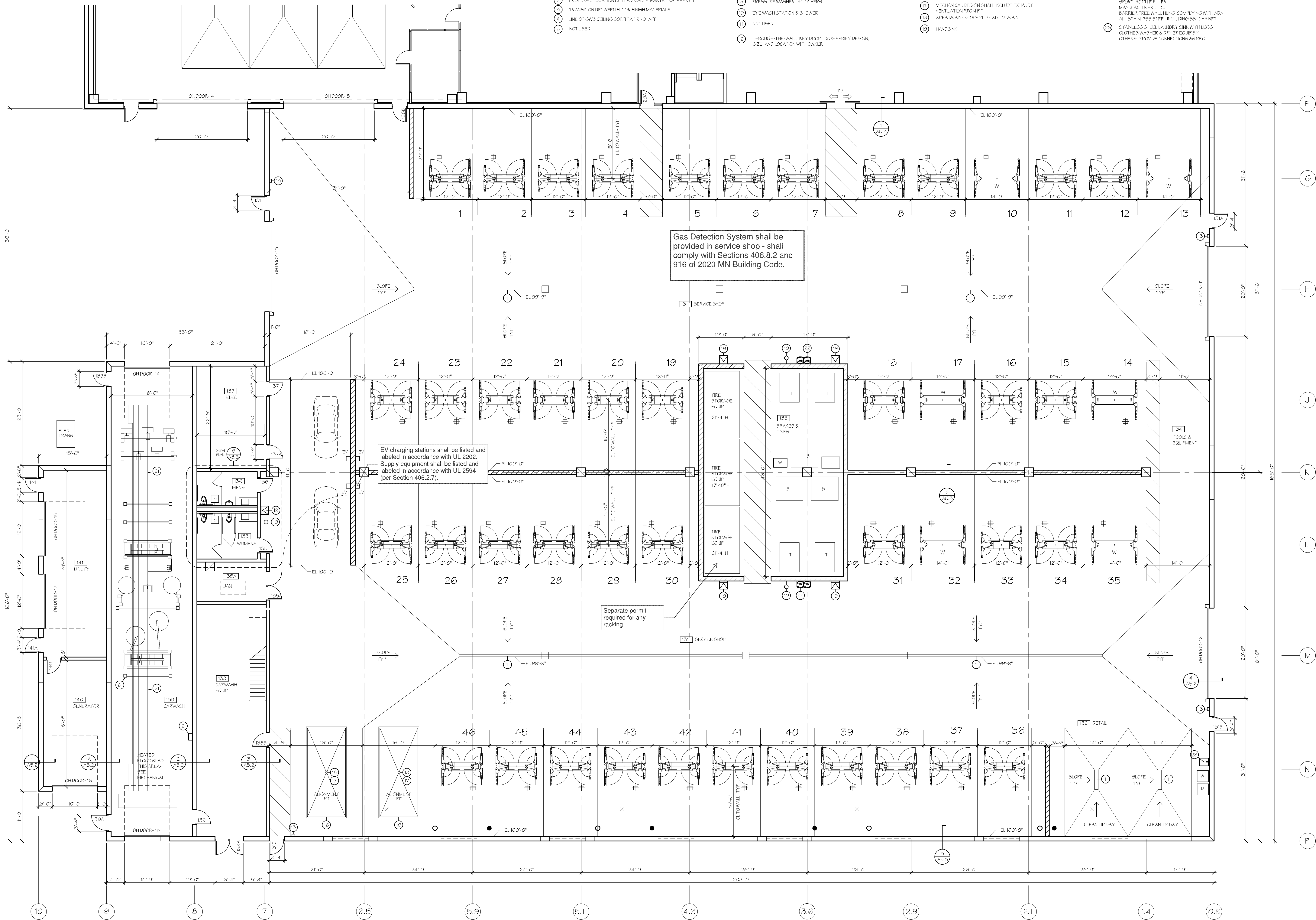
- 7 6' X 7' WALK-OFF ENTRY MAT- RECESSED CONCRETE FLOOR SLAB WITH FLOOR DRAIN
- 8 PROPOSED LOCATION OF UNDERGROUND WATER RECLAIM TANKS- (SEE CARWASH DRAWINGS)
- 9 PROPOSED LOCATION OF TRAIL-THEFT TYPE CARWASH EQUIPMENT DESIGN-BUILD BY CARWASH SUPPLIER
- 10 PRESSURE WASHER- BY OTHERS
- 11 EYE WASH STATION & SHOWER
- 12 NOT USED
- 13 THROUGH-THE-WALL "KEY DRIP" BOX- VERIFY DESIGN, SIZE, AND LOCATION WITH OWNER

NUMBERED NOTES- CONT

- 14 FIRE EXTINGUISHER AND SURFACE MOUNTED FE CABINET
- 15 FIRE EXTINGUISHER AND SEMI-RECESSED FE CABINET
- 16 NOT USED
- 17 PROVIDE 3" X 3" STEEL EDGE ANGLE AT ALL SIDES OF PIT
- 18 MECHANICAL DESIGN SHALL INCLUDE EXHAUST VENTILATION FROM PIT
- 19 AREA DRAIN- SLOPE PIT SLAB TO DRAIN
- 20 HANDSINK

NUMBERED NOTES- CONT

- 21 NOT USED
- 22 CONVEYOR TRENCH FOR AUTOMATIC CARWASH- SEE EQUIPMENT LAYOUT DRAWINGS FROM CARWASH SUPPLIER FOR ADDITIONAL INFORMATION
- 23 ELECTRIC WATER COOLER (EWC) - DUAL HIGH AND LOW CONFIGURATION WITH SHORT BOTTLE FILLER
- 24 MANUFACTURER, LTD
- 25 BARRIER FREE WALLING COMPLYING WITH ADA
- 26 ALL STAINLESS STEEL INCLUDING SS- CABINET
- 27 STAINLESS STEEL LAUNDRY BASK WITH LEGS
- 28 CLOTHES WASHER & DRYER EQUIP BY OTHERS- PROVIDE CONNECTIONS AS REQ



Gas Detection System shall be provided in service shop - shall comply with Sections 406.8.2 and 916 of 2020 MN Building Code.

EV charging stations shall be listed and labeled in accordance with UL 2202. Supply equipment shall be listed and labeled in accordance with UL 2594 (per Section 406.2.7).

Separate permit required for any racking.

1 FIRST FLOOR PAN
12.02 1/8" = 1'-0" NORTH

2022 NEW BUILDING FOR:
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4401 AMERICAN BLVD
BLOOMINGTON, MINNESOTA

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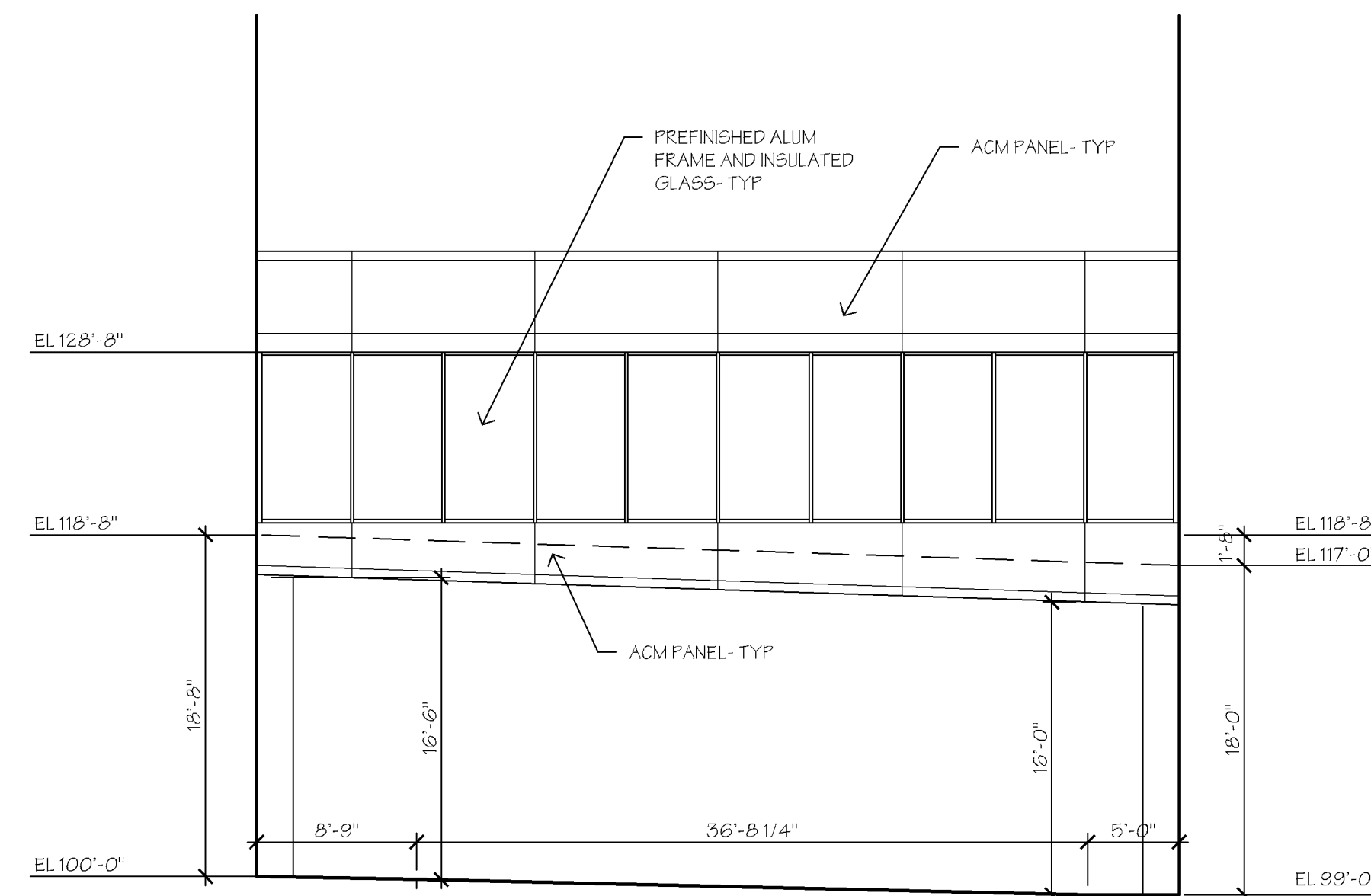
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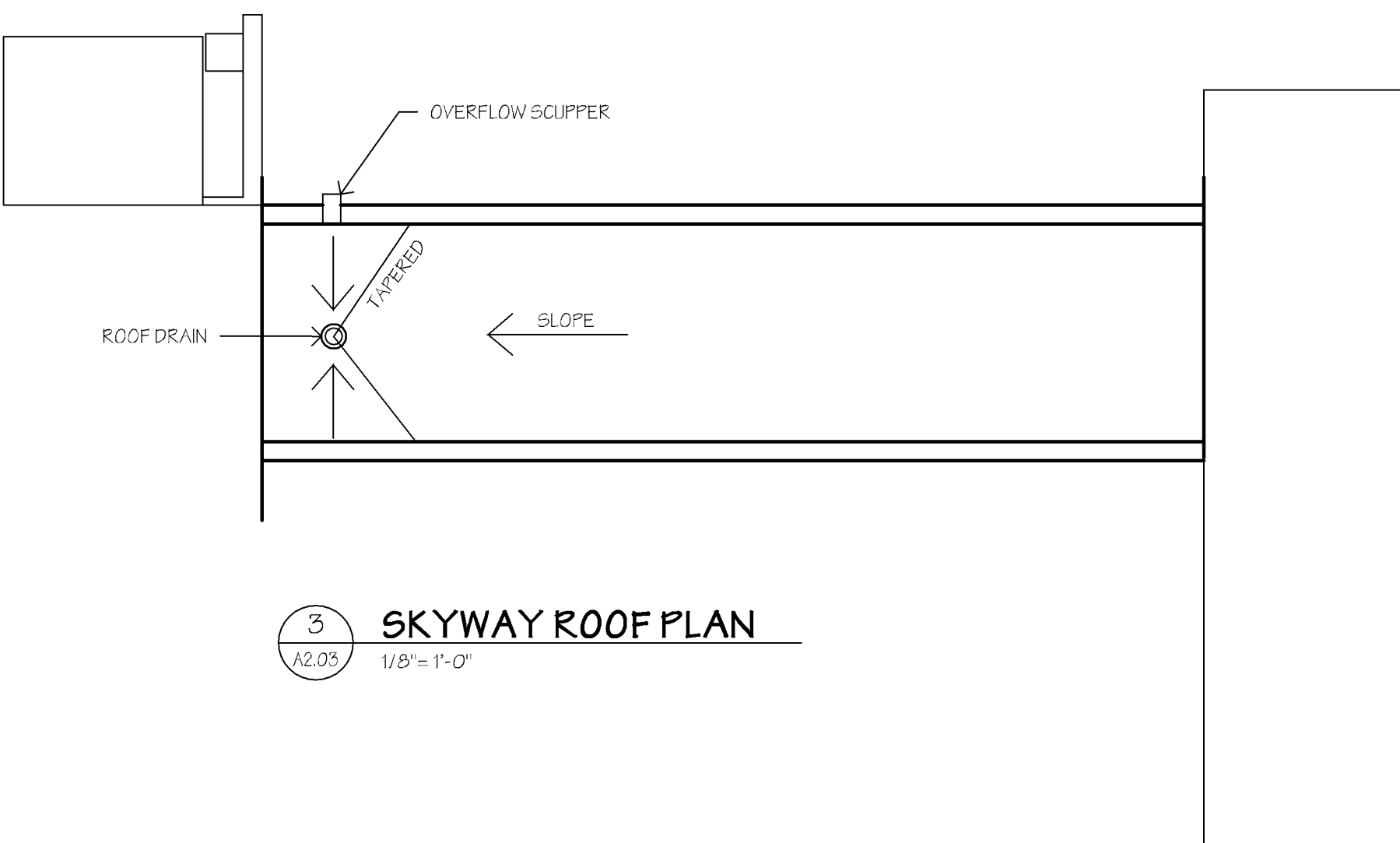
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PROJECT NO.:
FIRST FLOOR PLAN

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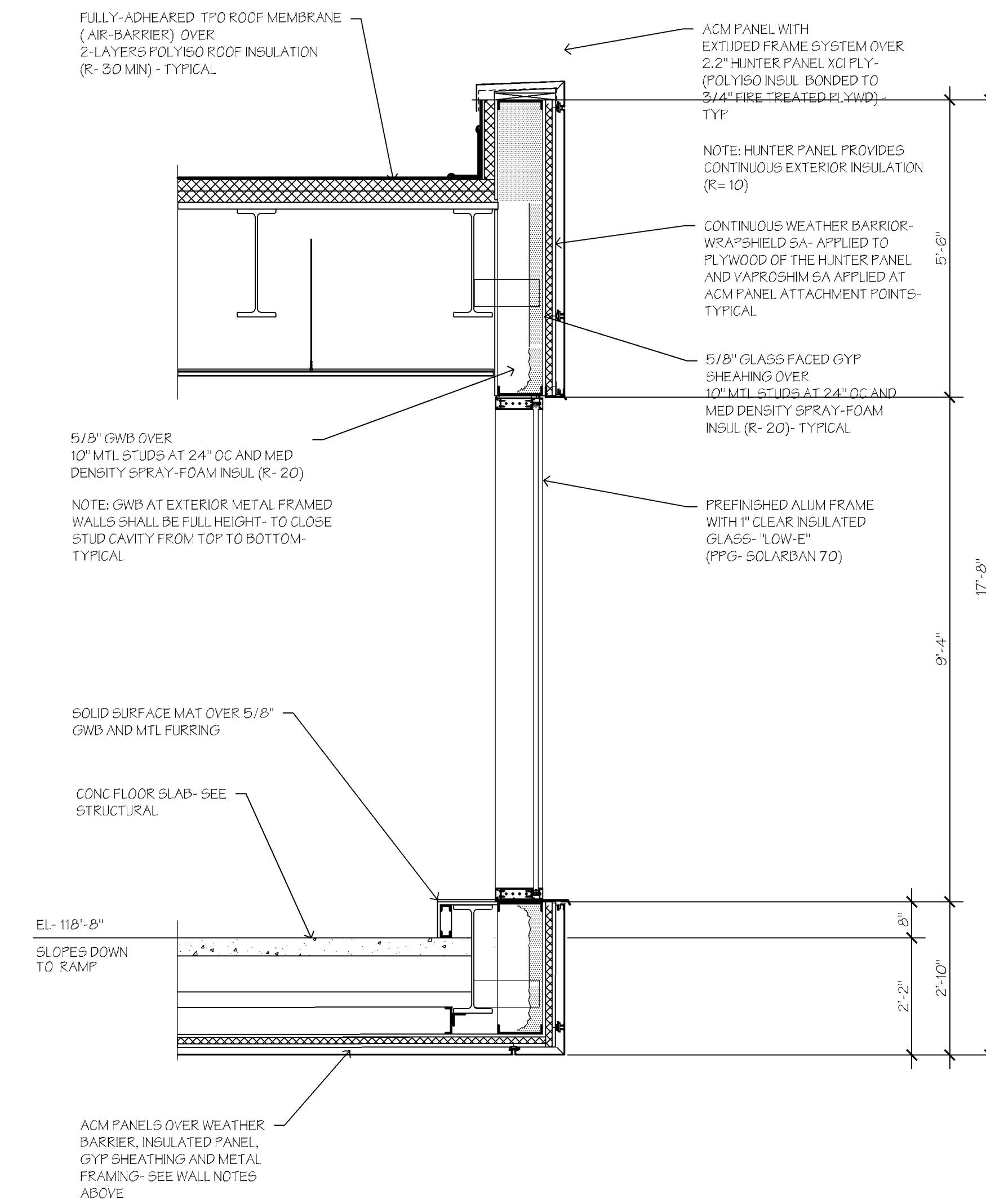
The Pedestrian Walkway shall comply with all requirements of Section 3104 of the 2020 MN Building Code.



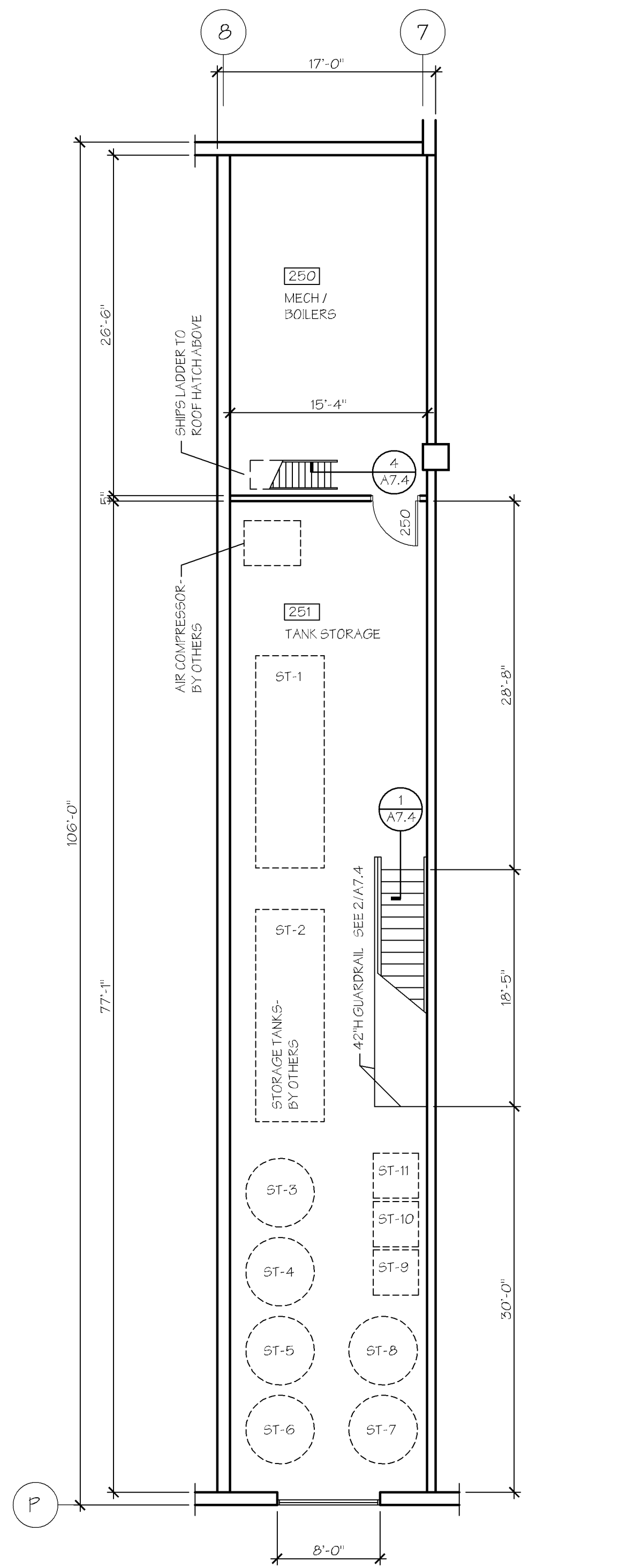
4 SKYWAY - SOUTH ELEV
1/8" = 1'-0"



3 SKYWAY ROOF PLAN
1/8" = 1'-0"



5 WALL SECTION
1/2" = 1'-0"



1 MEZZ FLOOR PLAN
1/8" = 1'-0"

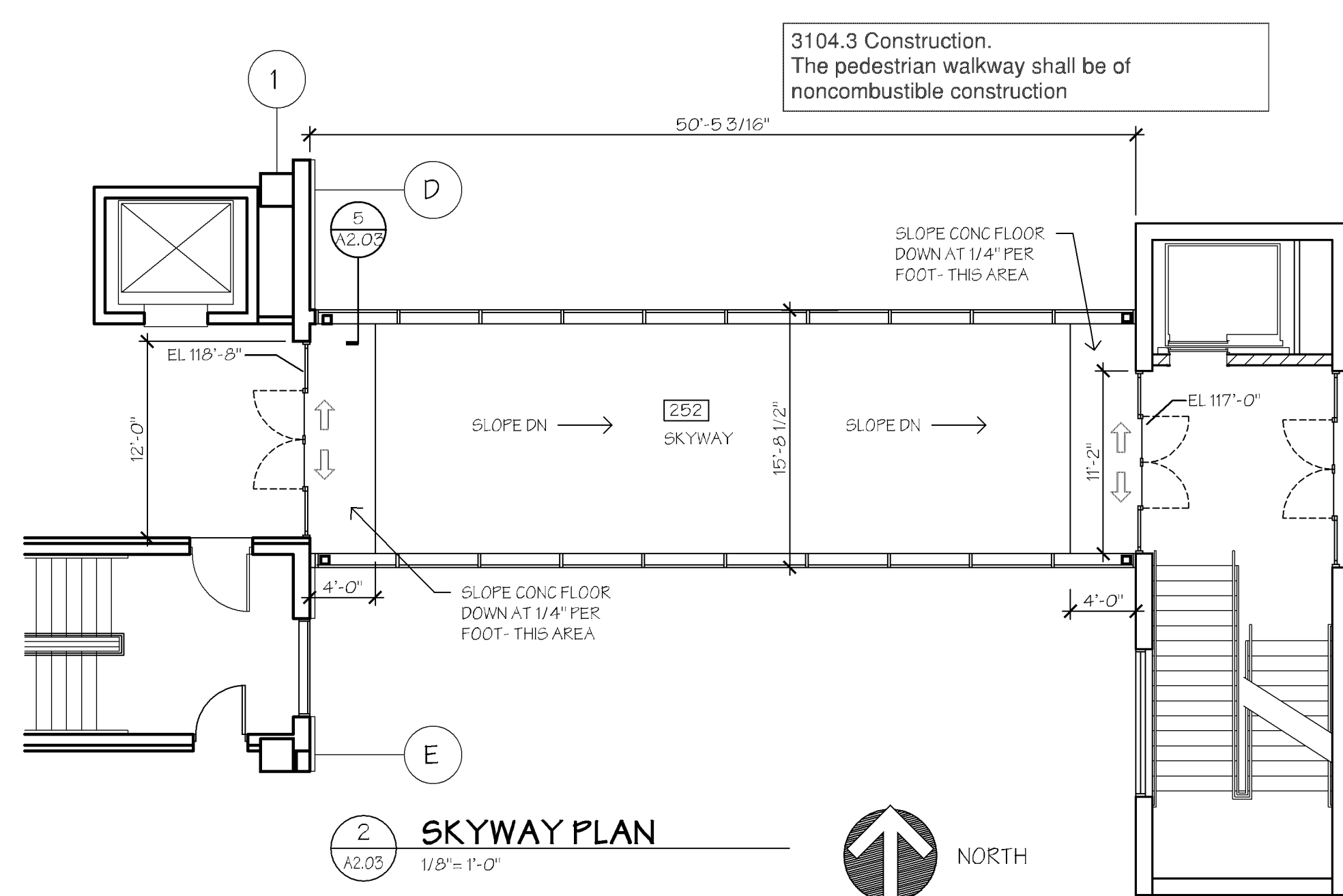


NOTES

- STRUCTURAL ROOF FRAMING PROVIDES A SLOPED ROOF DECK (1/8" PER FOOT MIN) - SEE STRUCTURAL
- PROVIDE TAPERED ROOF INSULATION TO INSURE PROPER DRAINAGE TO ROOF DRAINS
- ROOFER AND PLUMBER TO VERIFY NUMBER AND SIZE OF ROOF DRAINS - ADD ADDITIONAL DRAINS IF REQUIRED AND ADJUST TAPERED INSULATION AS NEEDED
- COORDINATE ROOFING WORK WITH MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY DETAILS FOR A COMPLETE ROOFING SYSTEM

KEY

- (126'-8) INDICATES ELEVATION OF STRUCTURAL ROOF DECK
- DIRECTION OF ROOF SLOPE (DRAINAGE)
- PRIMARY ROOF DRAIN AND
- SECONDARY OVERFLOW DRAIN



2 SKYWAY PLAN
1/8" = 1'-0"



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MEZZ PLAN &
SKYWAY PLAN

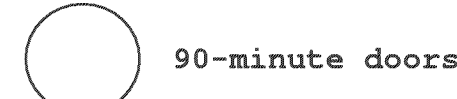
A2.03

CASE #PL2021-42

APPROVED
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11/07/2022 NMJ

All construction materials shall be non-combustible.
Maximum flame spread allowable for all finishes = 200.
Provide Sprinkler protection as approved by the Fire Marshal.
No combustibles shall be allowed in air plenums.

Fire and Life Safety System Requirements (Sprinklers, fire alarms, horns, strobes, etc) to be reviewed and approved by the Fire Marshal.



NUMBERED NOTES

NOTES NUMBERED 1 THROUGH 12- NOT USED THIS DRAWING SHEET

- 1 FIRE EXTINGUISHER AND SURFACE MOUNTED FE CABINET
- 2 FIRE EXTINGUISHER AND SEMI-RECESSED FE CABINET

NOTES NUMBERED 15 THROUGH 21- NOT USED THIS DRAWING SHEET

- 3 ELECTRIC WATER COOLER (EWC) - DUAL HIGH AND LOW CONFIGURATION WITH SPORT BOTTLE FILLER MANUFACTURER: TDO
- 4 BARRIER FREE WALL HUNG COMPLYING WITH ADA ALL STAINLESS STEEL INCLUDING SS- CABINET

WALL TYPES

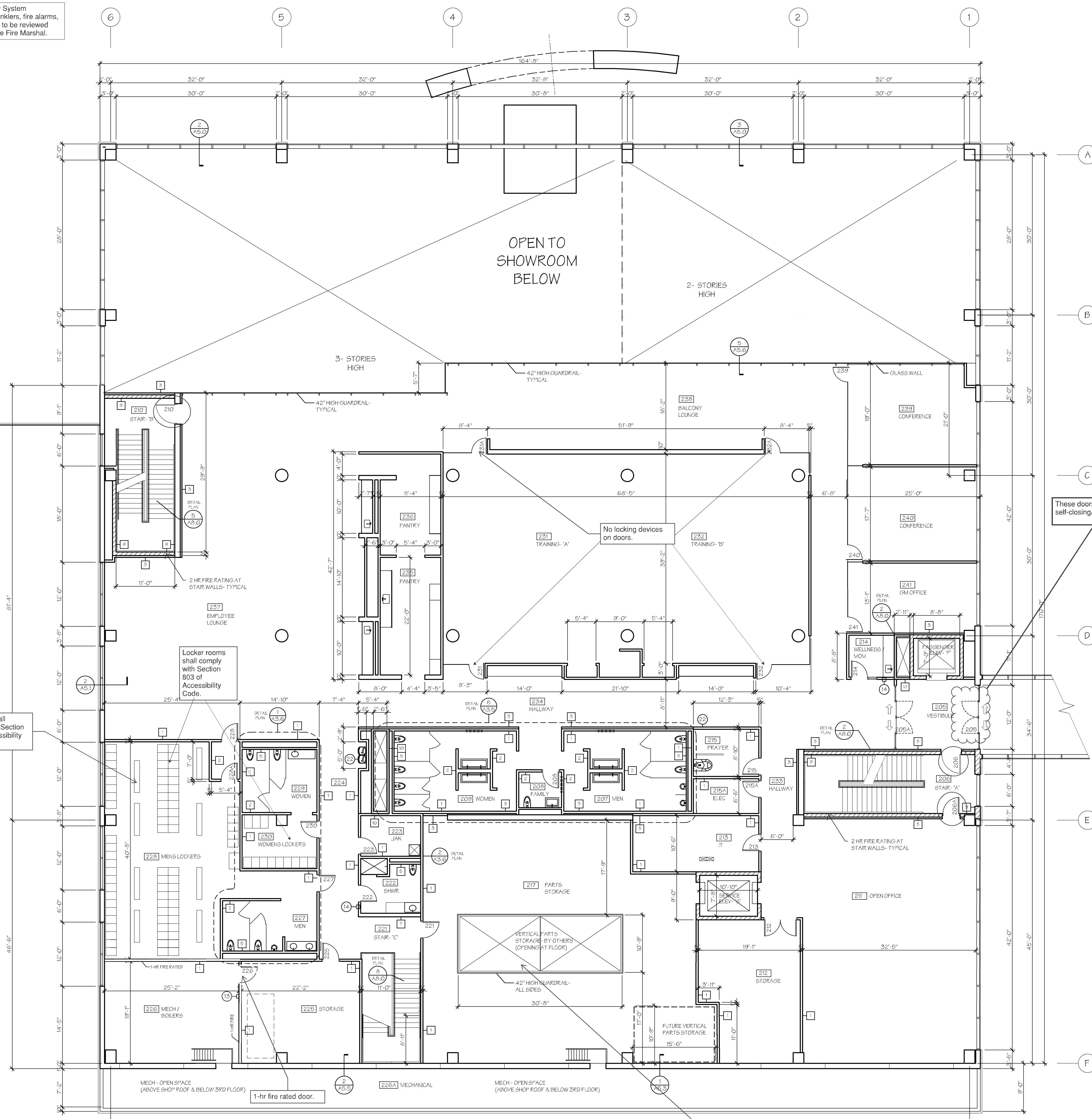
- 1 PARTITION WALL - 4 7/8" THICK
5/8" TYPE X GWB EACH SIDE
3-5/8" MTL STUDS AT 24" OC
FROM FLOOR TO ROOF DECK OR CONCRETE STRUCTURE ABOVE
ACOUSTIC SOUND RATT INSULATION, FULL HEIGHT
BOTTOM TRACK SET IN ACOUSTICAL SEALANT
- 2 PARTITION WALL - NON-RATED - 4 7/8" THICK
5/8" TYPE X GWB EACH SIDE
3-5/8" MTL STUDS AT 24" OC
FROM FLOOR TO 12" ABOVE FINISHED CEILING
ACOUSTIC SOUND RATT INSULATION, FULL HEIGHT
BOTTOM TRACK SET IN ACOUSTICAL SEALANT
- 3 FURRING WALL - NON-RATED - 4 1/4" THICK
5/8" TYPE X GWB ONE SIDE ONLY
3-5/8" MTL STUDS AT 24" OC
FROM FLOOR TO 12" ABOVE FINISHED CLG
- 4 FURRING WALL - NON-RATED - 3 1/2" THICK
5/8" TYPE X GWB ONE SIDE ONLY
2 1/2" MTL STUDS AT 16" OC
FROM FLOOR TO 12" ABOVE FINISHED CLG
- 5 PLUMBING WALL - NON-RATED
5/8" TYPE X GWB
3-5/8" MTL STUDS AT 16" OC
FROM FLOOR TO 12" ABOVE FINISHED CLG
- 6 PARTITION WALL - NON-RATED - 9" THICK OVERALL
(2) LAYERS 5/8" TYPE X GWB EACH SIDE
(2) ROWS 3/8" MTL STUDS AT 16" OC STAGGERED
1/2" STL TRACK AND ACOUSTICAL INSULATION
BOTTOM TRACK SET IN ACOUSTICAL SEALANT
- 7 PARTITION WALL - NON-RATED - 7 1/4" THICK
5/8" TYPE X GWB EACH SIDE
6" MTL STUDS AT 16" OC
FROM FLOOR TO ROOF DECK
ACOUSTIC SOUND RATT INSULATION, FULL HEIGHT
BOTTOM TRACK SET IN ACOUSTICAL SEALANT
- 8 PARTITION WALL - NON-RATED - 7 5/8" THICK
8" CMH-REINFORCED MASONRY
FROM FOOTING TO PRECAST OR ROOF DECK ABOVE (LND)
- 9 BONDED WALL FINISH - NON-RATED
5/8" GWB APPLIED DIRECTLY TO FACE OF
CONCRETE OR MASONRY
FROM FLOOR TO 3" ABOVE FINISHED CEILING
- 10 SHAFT WALL - (2) HOUR RATED
4" CM MTL STUDS AT 24" OC
1" GYP/PLM PANEL - TYPE X (INSIDE FACE)
2 LAYERS 5/8" GWB - TYPE X (OUTSIDE FACE)
FROM FLOOR TO CONCRETE SLAB ABOVE

Benches shall comply with Section 903 of Accessibility Code.

1 SECOND FLOOR PLAN
1/8" = 1'-0"



Any elevator, lift, or conveyor shall be reviewed and approved by State of MN.



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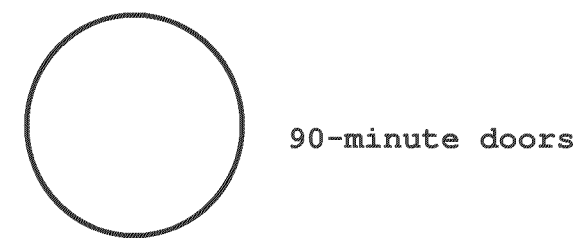
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PROJECT NO.:

SECOND FLOOR PLAN

A2.21

CASE #PL2021-42

APPROVED
Zoning Review Only
11/07/2022 NMJ



All construction materials shall be non-combustible.
Maximum frame spread allowable for all finishes = 200.
Provide Sprinkler protection as approved by the Fire Marshal.
No combustibles shall be allowed in air plenums.

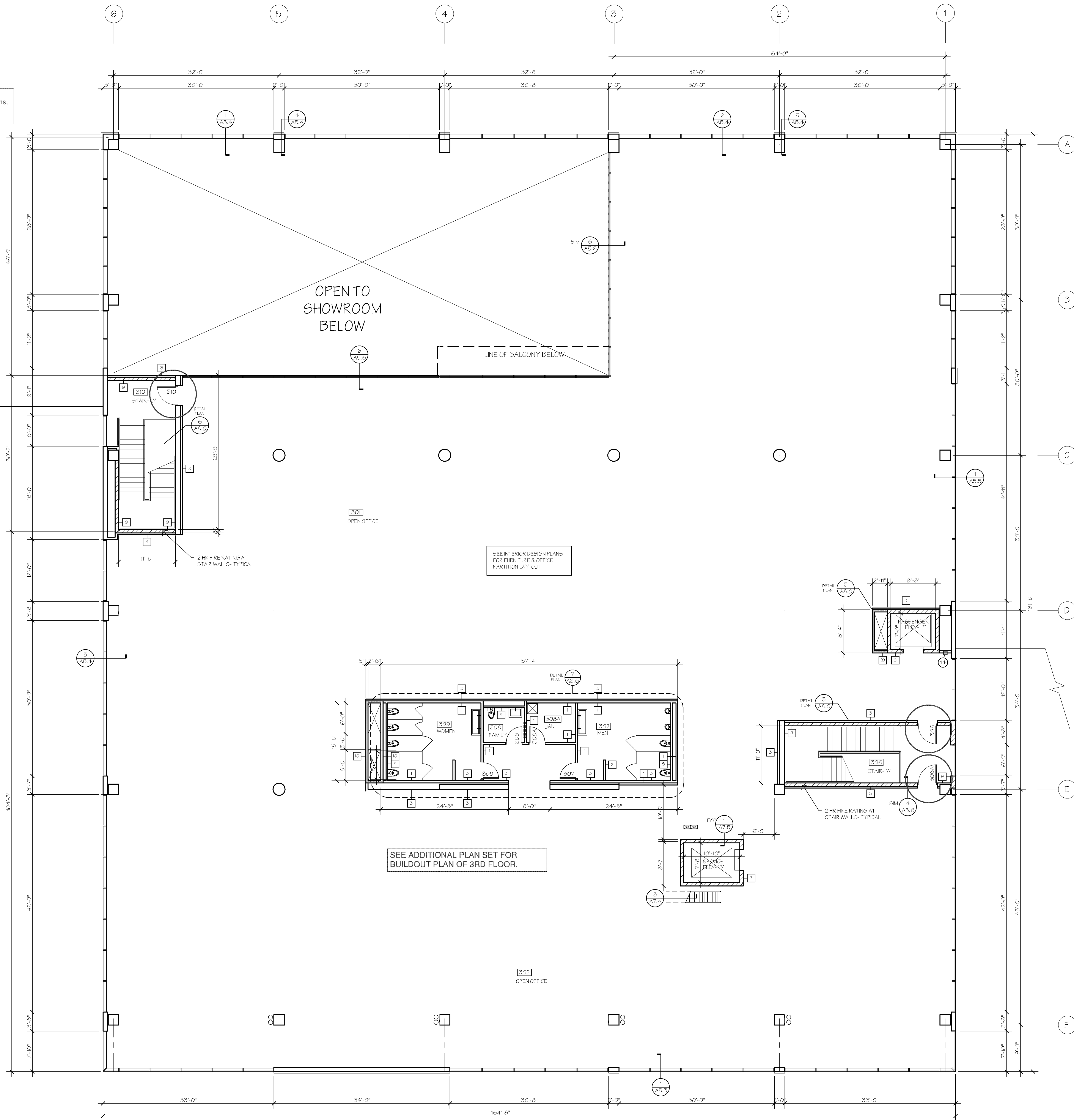
Fire and Life Safety System Requirements (Sprinklers, fire alarms, horns, strobes, etc) to be reviewed and approved by the Fire Marshal.

NUMBERED NOTES

- NOTES NUMBERED 1 THROUGH 12- NOT USED THIS DRAWING SHEET
- (10) FIRE EXTINGUISHER, AND SURFACE MOUNTED FIRE CABINET
 - (14) FIRE EXTINGUISHER, AND SEMI-RECESSED FIRE CABINET
- NOTES NUMBERED 15 THROUGH 21- NOT USED THIS DRAWING SHEET
- (22) ELECTRIC WATER COOLER (EWC) - DUAL HIGH AND LOW CONFIGURATION WITH SHORT BOTTLE FILLER
MANUFACTURER: TBO
SHRIMP FREE WALL MOUNT COMPLYING WITH ADA
ALL STAINLESS STEEL INCLUDING 304 CABINET

WALL TYPES

- 1 PARTITION WALL - 4 7/8" THICK
5/8" TYPE X GWB EACH SIDE
3 5/8" MTL STUDS AT 24" OC
FROM FLOOR TO ROOF DECK OR CONCRETE STRUCTURE ABOVE
ACOUSTIC SOUND BATT INSULATION, FULL HEIGHT
BOTTOM TRACK, SET IN ACOUSTICAL SEALANT
- 2 PARTITION WALL - NON-RATED - 4 7/8" THICK
5/8" TYPE X GWB EACH SIDE
3 5/8" MTL STUDS AT 24" OC
FROM FLOOR TO 12" ABOVE FINISHED CEILING
ACOUSTIC SOUND BATT INSULATION, FULL HEIGHT
BOTTOM TRACK, SET IN ACOUSTICAL SEALANT
- 3 FURRING WALL - NON-RATED - 4 1/4" THICK
5/8" TYPE X GWB ONE SIDE ONLY
3 5/8" MTL STUDS AT 24" OC
FROM FLOOR TO 12" ABOVE FINISHED CLG
- 4 FURRING WALL - NON-RATED - 3 1/8" THICK
5/8" TYPE X GWB ONE SIDE ONLY
2 1/2" MTL STUDS AT 16" OC
FROM FLOOR TO 12" ABOVE FINISHED CLG
- 5 PLUMBING WALL - NON-RATED
5/8" TYPE X GWB
3 5/8" MTL STUDS AT 16" OC
FROM FLOOR TO 12" ABOVE FINISHED CLG
- 6 PARTITION WALL - NON-RATED - 3" THICK OVERALL
(2) LAYERS 5/8" TYPE X GWB EACH SIDE
(2) ROWS 3 5/8" MTL STUDS AT 16" OC STAGGERED
IN 5/8" MTL TRACK AND ACOUSTICAL INSULATION
BOTTOM TRACK, SET IN ACOUSTICAL SEALANT
- 7 PARTITION WALL - NON-RATED - 7 1/4" THICK
5/8" TYPE X GWB EACH SIDE
6" MTL STUDS AT 16" OC
FROM FLOOR TO ROOF DECK
ACOUSTIC SOUND BATT INSULATION, FULL HEIGHT
BOTTOM TRACK, SET IN ACOUSTICAL SEALANT
- 8 PARTITION WALL - NON-RATED - 7 5/8" THICK
6" CMU - REINFORCED MASONRY
FROM FOOTING TO PRECAST OR ROOF DECK ABOVE (NO)
- 9 BONDED WALL FINISH - NON-RATED
5/8" GWB APPLIED DIRECTLY TO FACE OF
CONCRETE OR MASONRY
FROM FLOOR TO 3" ABOVE FINISHED CEILING
- 10 SHAFT WALL - (2) HOUR RATED
4" CMU - MTL STUDS AT 24" OC
1" GYPSUM PANEL - TYPE X (INSIDE FACE)
2" LAYERS 5/8" GWB - TYPE X (OUTSIDE FACE)
FROM FLOOR TO CONCRETE SLAB ABOVE



SEE ADDITIONAL PLAN SET FOR
BUILDOUT PLAN OF 3RD FLOOR.

SEE INTERIOR DESIGN PLANS
FOR FURNITURE & OFFICE
PARTITION LAYOUT

1 THIRD FLOOR PAN
1/8" = 1'-0" NORTH

2022 NEW BUILDING FOR:
WALSER TOYOTA
4401 AMERICAN BLVD
BLOOMINGTON, MINNESOTA

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DATE: 7/31/2022 REG. NO.: 17387

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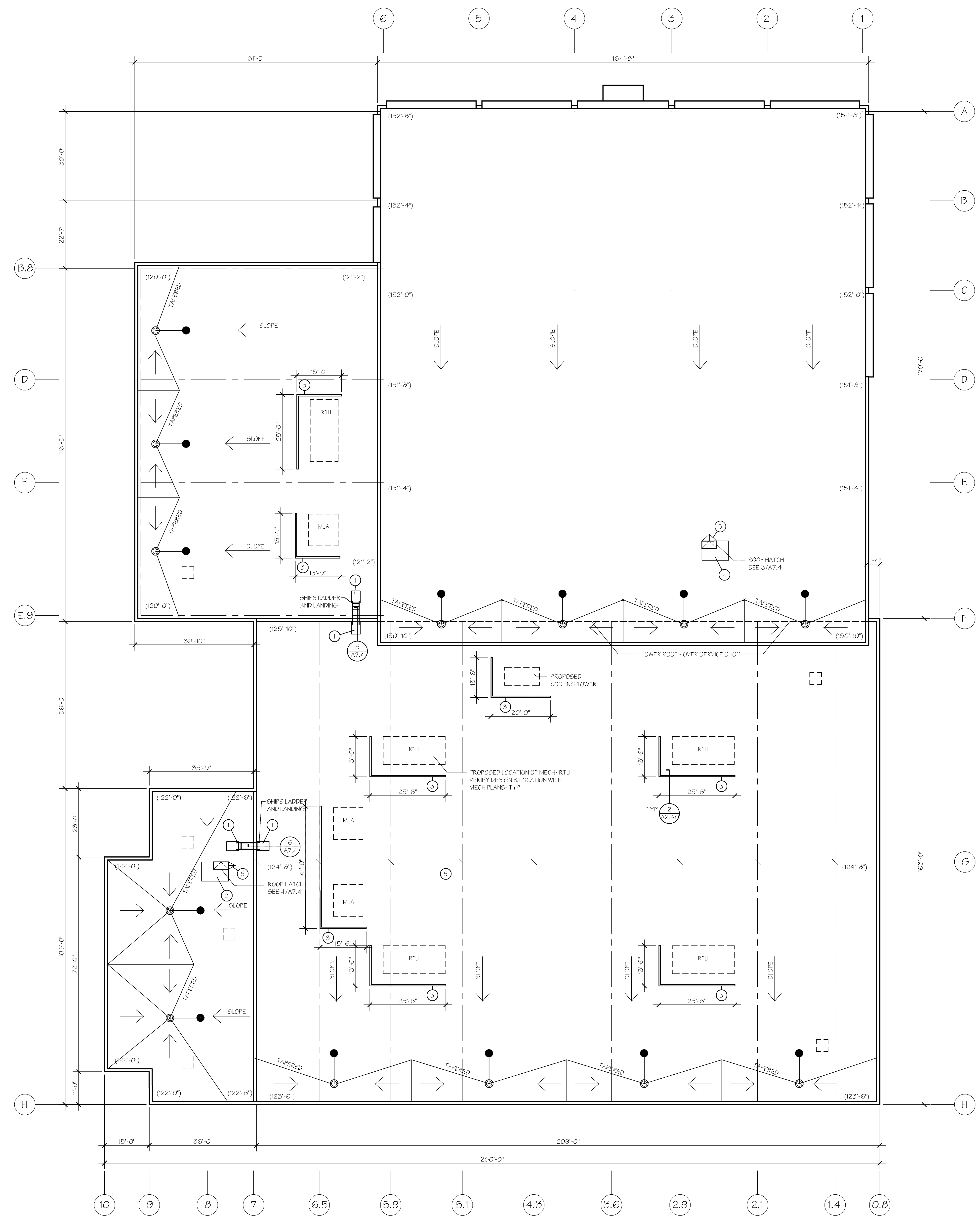
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THIRD FLOOR PLAN

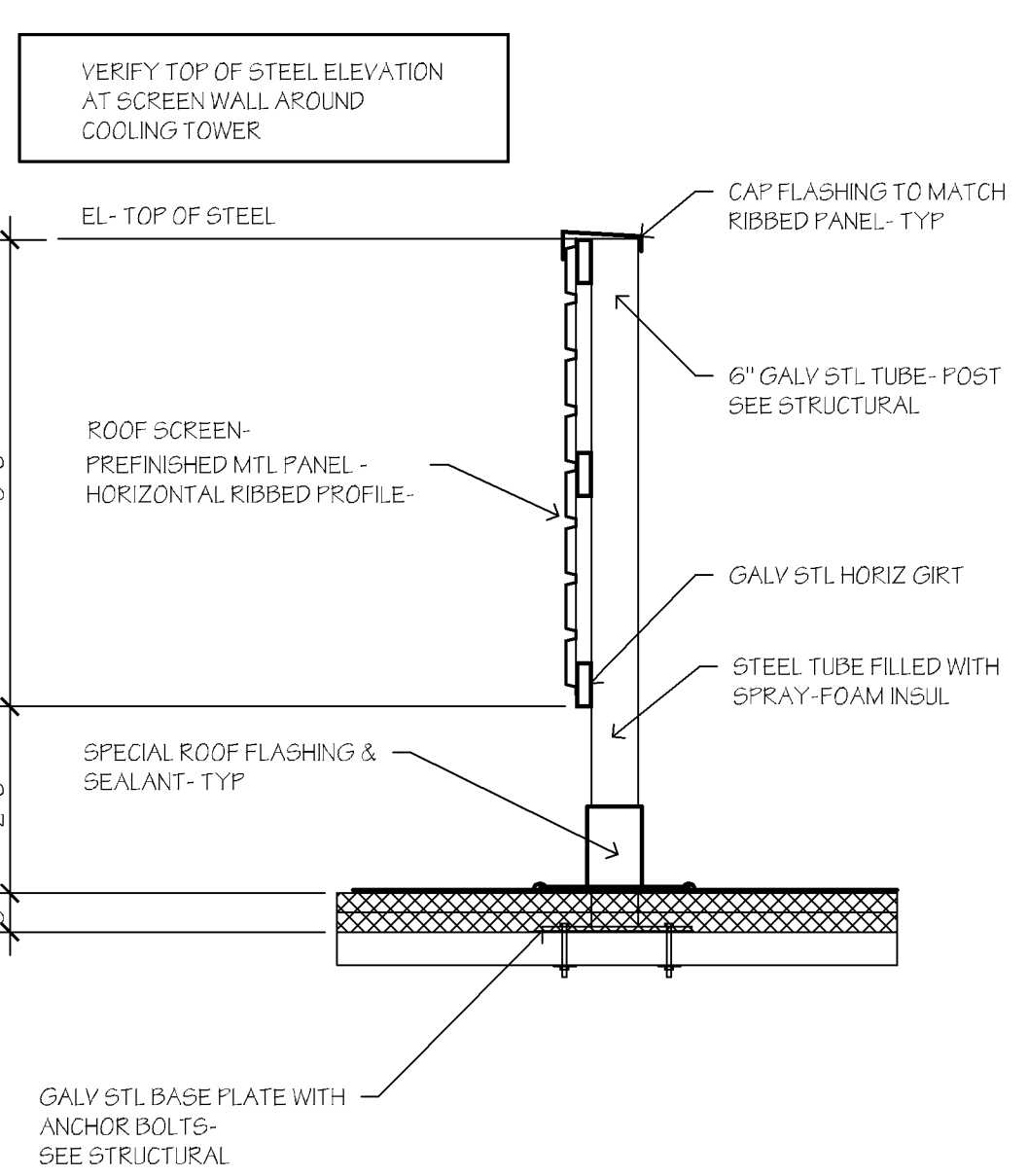
A2.31

CASE #PL2021-42

APPROVED
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11/07/2022 NMJ



Screening of all mechanical equipment shall meet City of Bloomington Zoning requirements.



2 ROOF SCREEN DETAIL - TYP
1/2" = 1'-0"

NUMBERED NOTES

- 1 TRAFFIC PAD - AT TOP AND BOTTOM OF EXTERIOR SHIPS LADDER
- 2 TRAFFIC PAD - MIN 4'-0" (2) SIDES OF ROOF HATCH
- 3 ROOF EQUIPMENT SCREEN WALL - VERIFY LOCATION AND DIMENSIONS WITH MECHANICAL - TYP
- 4 NOT USED
- 5 CRICKET - TAPERED INSULATION AS REQUIRED - TYPICAL

NOTES

- 1. STRUCTURAL CONCRETE ROOF DECK PROVIDES A SLOPED ROOF SURFACE - EXCEPT OVER GENERATOR RM #140 & UTILITY RM #141 (SEE STRUCTURAL).
- 2. PROVIDE TAPERED ROOF INSULATION TO INSURE PROPER DRAINAGE TO ROOF DRAINS.
- 3. ROOFER AND PLUMBER TO VERIFY NUMBER AND SIZE OF ROOF DRAINS - ADD ADDITIONAL DRAINS IF REQUIRED AND ADJUST TAPERED INSULATION AS NEEDED.
- 4. COORDINATE ROOFING WORK WITH MECHANICAL AND ELECTRICAL WORK AND PROVIDE ALL NECESSARY DETAILS FOR A COMPLETE ROOFING SYSTEM.

KEY

- (126'-8") INDICATES ELEVATION OF STRUCTURAL ROOF DECK.
- DIRECTION OF ROOF SLOPE (DRAINAGE)
- PRIMARY ROOF DRAIN AND
- SECONDARY OVERFLOW DRAIN

Refer to Section 1502.2 of 2020 IBC for secondary roof drain system requirements. Overflow drains shall not discharge onto public sidewalks.

2022 NEW BUILDING FOR:
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9/19/2022 UPDATE - PERMIT COMMENTS

DRAWN BY: DAP
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PROJECT NO.:
ROOF PLAN

A2.40

1 ROOF PLAN
1/2" = 1'-0" NORTH

CASE #PL2021-42

KEY

- ACM-1 PREFINISHED METAL WALL PANEL (ACM)
DRY JOINT SYSTEM
COLOR: SILVER/METALLIC
- ACM-2 PREFINISHED METAL WALL PANEL (ACM)
DRY JOINT SYSTEM
COLOR: "TOYOTA RED"
- ACM-3 PREFINISHED METAL WALL PANEL (ACM)
DRY JOINT SYSTEM
COLOR: GRAPHITE GREY (RAL 7024)
- CF-1 PREFINISHED METAL CAP FLASHING
COLOR: TO MATCH WALL BELOW
- GL-1 ALUM. FRAME CURTAIN WALL SYSTEM WITH CLEAR
INSULATED GLASS
MULLIONS - "CAPTIVE" WITH ALUM. COVER
COLOR: CLEAR/ANODIZED
- SF-1 STOREFRONT ALUMINUM WINDOW SYSTEM WITH
CLEAR INSULATED GLASS
COLOR: CLEAR/ANODIZED
- PC-1 DECORATIVE PRECAST CONCRETE WALL PANEL
COLOR: INTEGRAL COLORED CONC TO MATCH EXISTING PARKING
RAMP; TYPICAL
- D-1 "EXTERIOR CAR DOOR"-
ENTRY DOOR SYSTEM WITH ALUMINUM FRAME AND CLEAR
INSULATED GLASS
COLOR: CLEAR/ANODIZED
- D-1A "AUTOMATIC" ENTRY DOOR SYSTEM WITH ALUMINUM
FRAME AND CLEAR INSULATED GLASS
COLOR: CLEAR/ANODIZED
- D-2 "EXTERIOR MAN DOOR"-
ENTRY DOOR SYSTEM WITH ALUMINUM FRAME AND CLEAR
INSULATED GLASS
COLOR: CLEAR/ANODIZED
- D-3 NOT USED
- D-4 HIGH-SPEED COLLING OH DOOR, ALUMINUM FRAMING
WITH CLEAR POLYCARBONATE WINDOWS- FULLVIEW
COLOR: CLEAR/ANODIZED
- D-4A OH DOOR- ALUMINUM FRAMING WITH CLEAR
INSULATED GLASS
COLOR: CLEAR/ANODIZED
- D-4B OH DOOR- PREFINISHED METAL WITH SOLID
INSULATED PANELS
COLOR: CLEAR/ANODIZED
- LF-1 EXTERIOR LIGHT FIXTURE- WALL MOUNTED
"DOWN LIGHT" DESIGN

Installing Alcoa Reynobond panels - install per manufacturer's installation instructions and refer to ICC ESR-3435 report.

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Zoning Review Only
11/07/2022 NMJ

2022 NEW BUILDING FOR:
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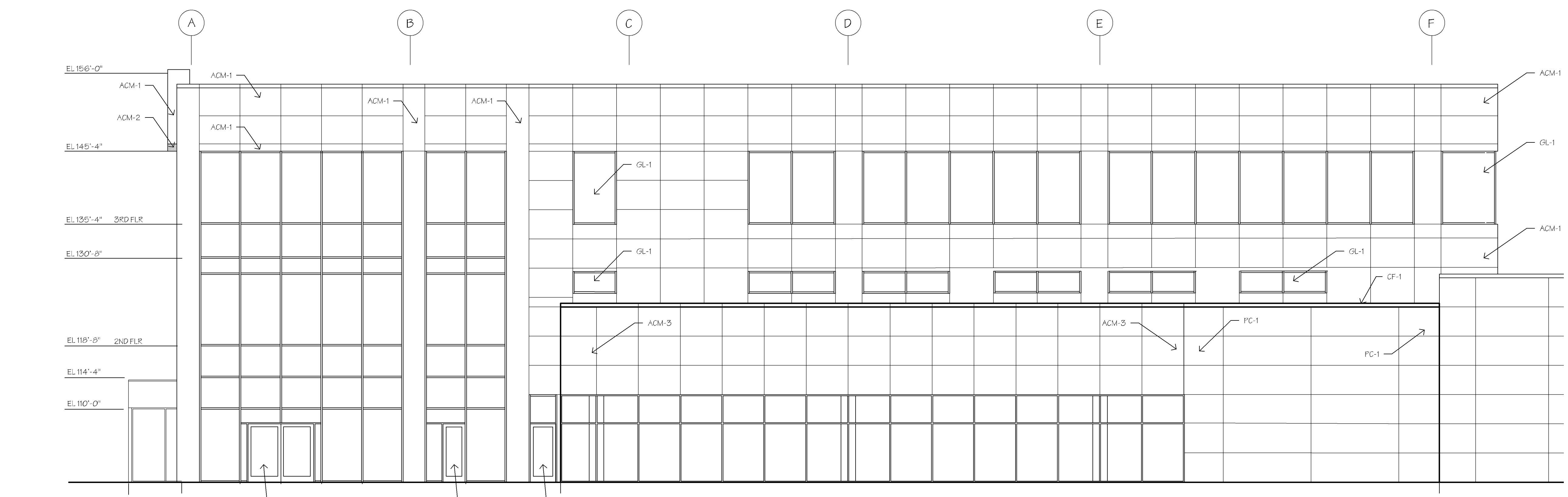
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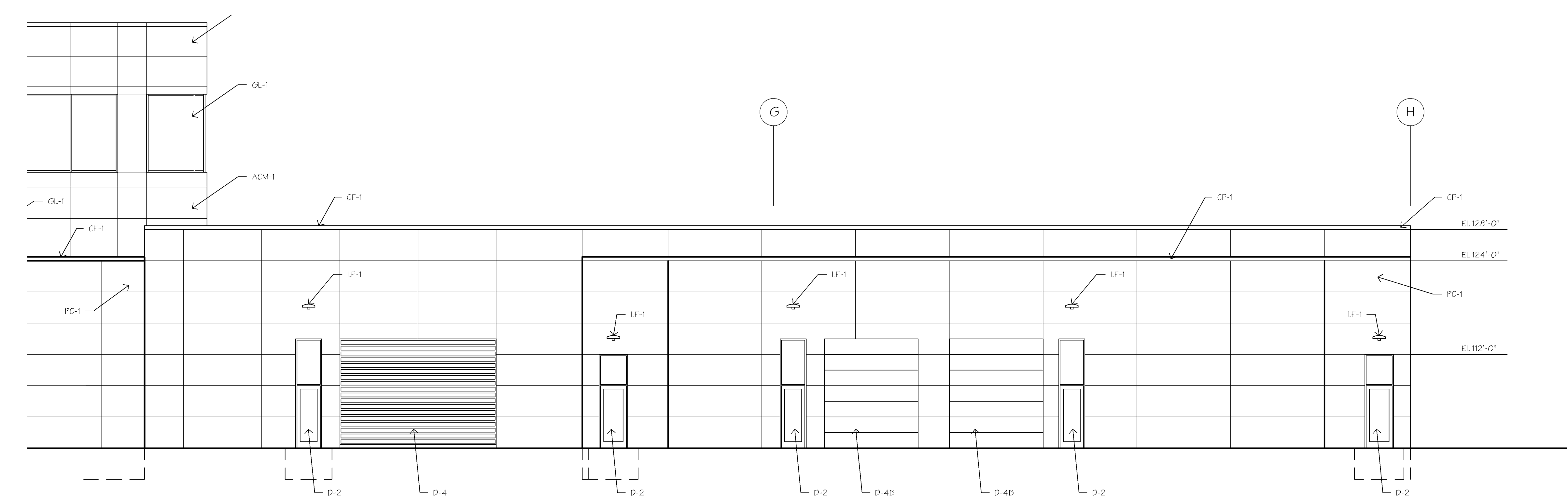
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PROJECT NO.:

EXTERIOR ELEVATIONS

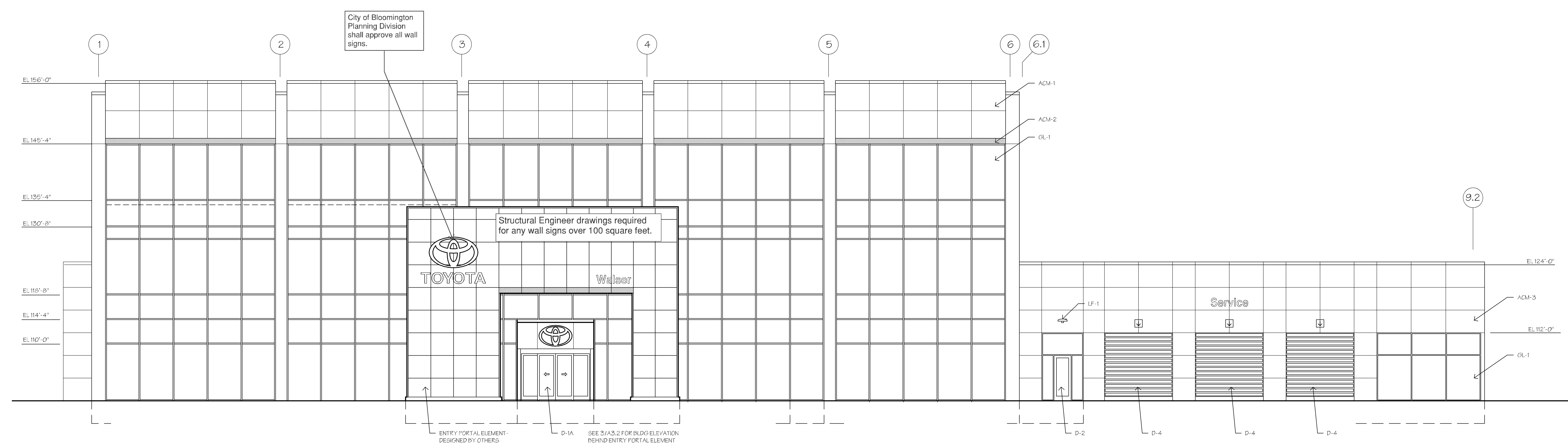
A3.0



WEST ELEVATION- SERVICE DRIVE
1/8" = 1'-0"



WEST ELEVATION- SERVICE SHOP
1/8" = 1'-0"

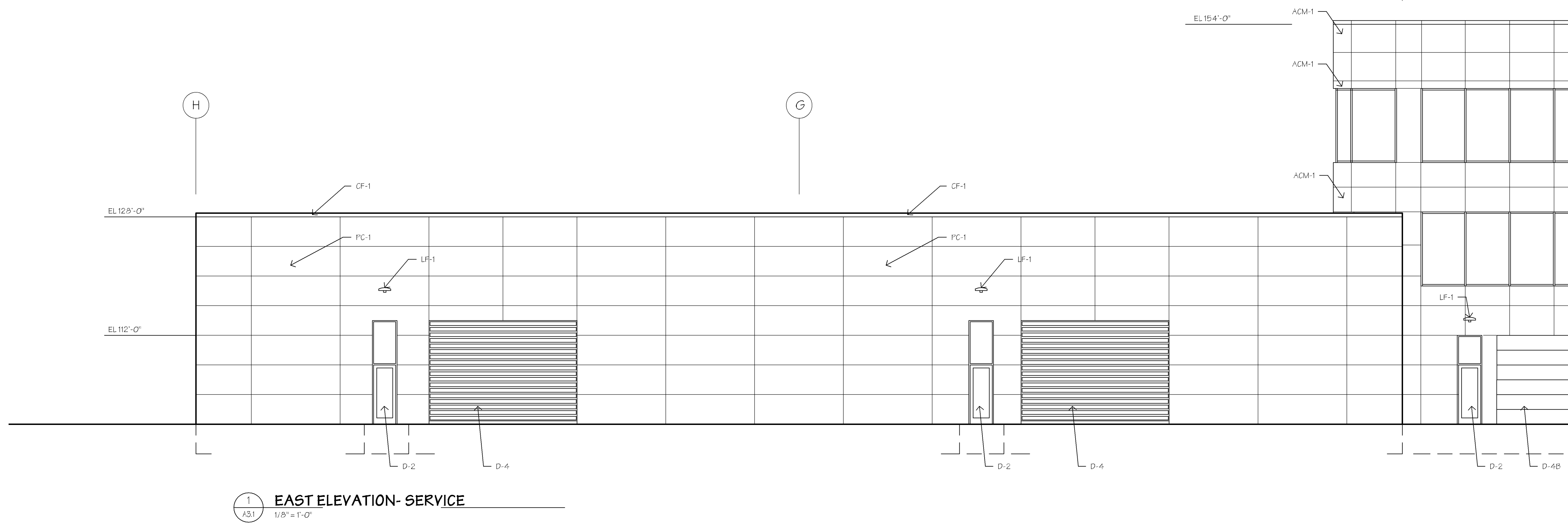
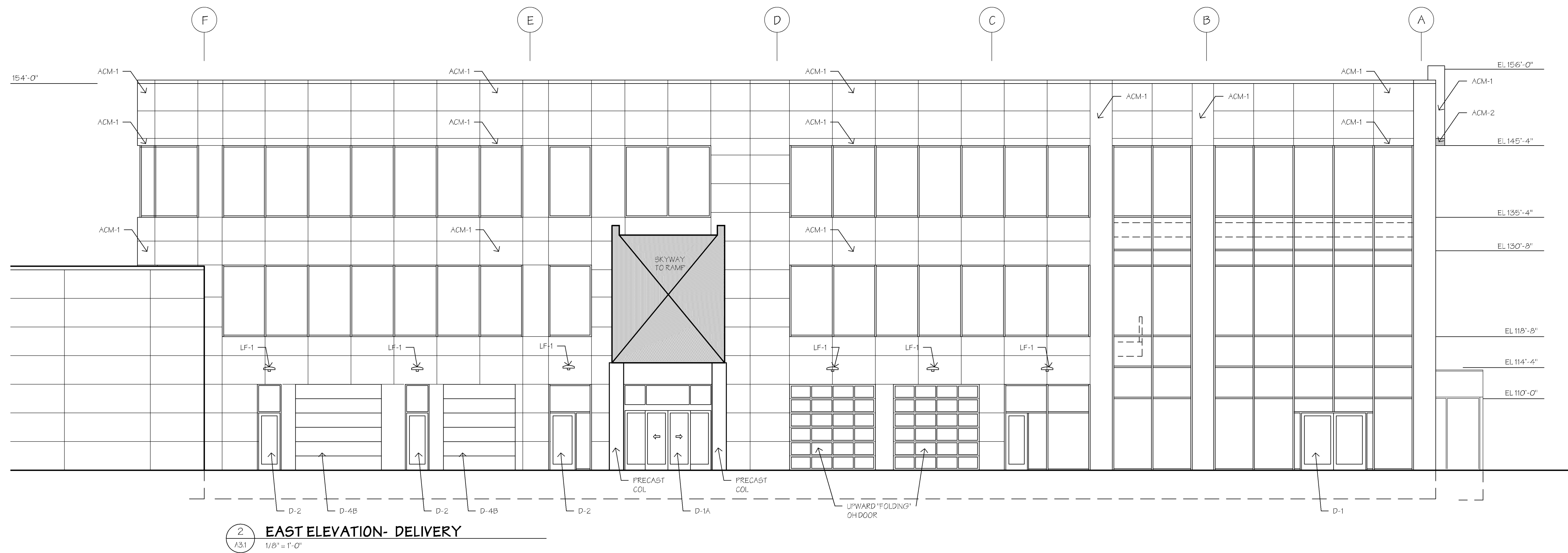
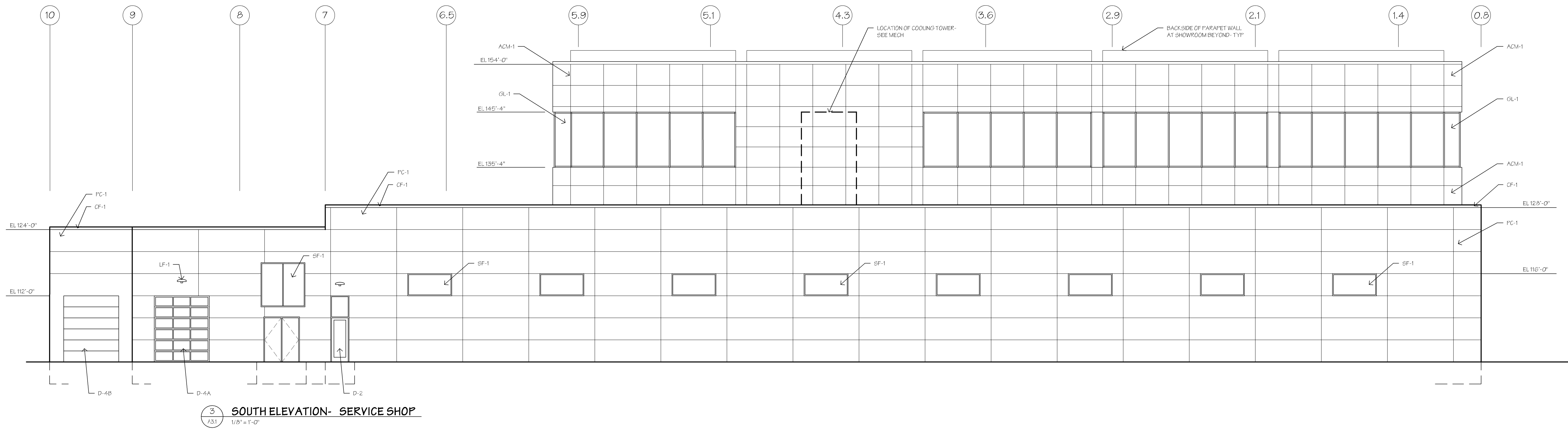


NORTH ELEVATION
1/8" = 1'-0"

City of Bloomington Planning Division shall approve all wall signs.

Structural Engineer drawings required for any wall signs over 100 square feet.

ENTRY PORTAL ELEMENT- DESIGNED BY OTHERS
SEE 2/A/3.2 FOR BLDG ELEVATION DESIGN ENTRY PORTAL ELEMENT



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KEY

ACM-1	PREFINISHED METAL WALL PANEL (ACM) DRY JOINT SYSTEM COLOR: SILVER METALLIC
ACM-2	PREFINISHED METAL WALL PANEL (ACM) DRY JOINT SYSTEM COLOR: TOYOTA RED
ACM-3	PREFINISHED METAL WALL PANEL (ACM) DRY JOINT SYSTEM COLOR: GRAPHITE GREY (RAL 7024)
CF-1	PREFINISHED METAL CAP FLASHING COLOR: TO MATCH WALL BELOW
GL-1	ALUM FRAME CURTAIN WALL SYSTEM WITH CLEAR INSULATED GLASS MULTIGLASS - CAPPED WITH ALUM COVER COLOR: CLEAR ANODIZED
SF-1	STOREFRONT ALUMINUM WINDOW SYSTEM WITH CLEAR INSULATED GLASS COLOR: CLEAR ANODIZED
PC-1	DECORATIVE PRECAST CONCRETE WALL PANEL COLOR: INTEGRAL COLORED CONC TO MATCH EXISTING PARKING RAMP - TYPICAL
D-1	*EXTERIOR CAR DOOR* ENTRY DOOR SYSTEM WITH ALUMINUM FRAME AND CLEAR INSULATED GLASS COLOR: CLEAR ANODIZED
D-1A	*AUTOMATIC* ENTRY DOOR SYSTEM WITH ALUMINUM FRAME AND CLEAR INSULATED GLASS COLOR: CLEAR ANODIZED
D-2	*EXTERIOR MAN DOOR* ENTRY DOOR SYSTEM WITH ALUMINUM FRAME AND CLEAR INSULATED GLASS COLOR: CLEAR ANODIZED
D-3	NOT USED
D-4	HIGH-SPEED COILING OH DOOR, ALUMINUM FRAMING WITH CLEAR POLYCARBONATE WINDOWS - FULLVIEW COLOR: CLEAR ANODIZED
D-4A	OH DOOR - ALUMINUM FRAMING WITH CLEAR INSULATED GLASS COLOR: CLEAR ANODIZED
D-4B	OH DOOR - PREFINISHED METAL WITH SOLID INSULATED PANELS COLOR: CLEAR ANODIZED
LF-1	EXTERIOR LIGHT FIXTURE - WALL MOUNTED 'DOWN LIGHT' DESIGN

2022 NEW BUILDING FOR:
WALSER TOYOTA
4401 AMERICAN BLVD
BLOOMINGTON, MINNESOTA

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PHILLIPS ARCHITECTS & CONTRACTORS, LTD.

401 North Third Street
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David A. Phillips

DATE: 7/31/2022 REG. NO. 17397
ISSUE REVIEWED: 7/31/2022 PERMIT

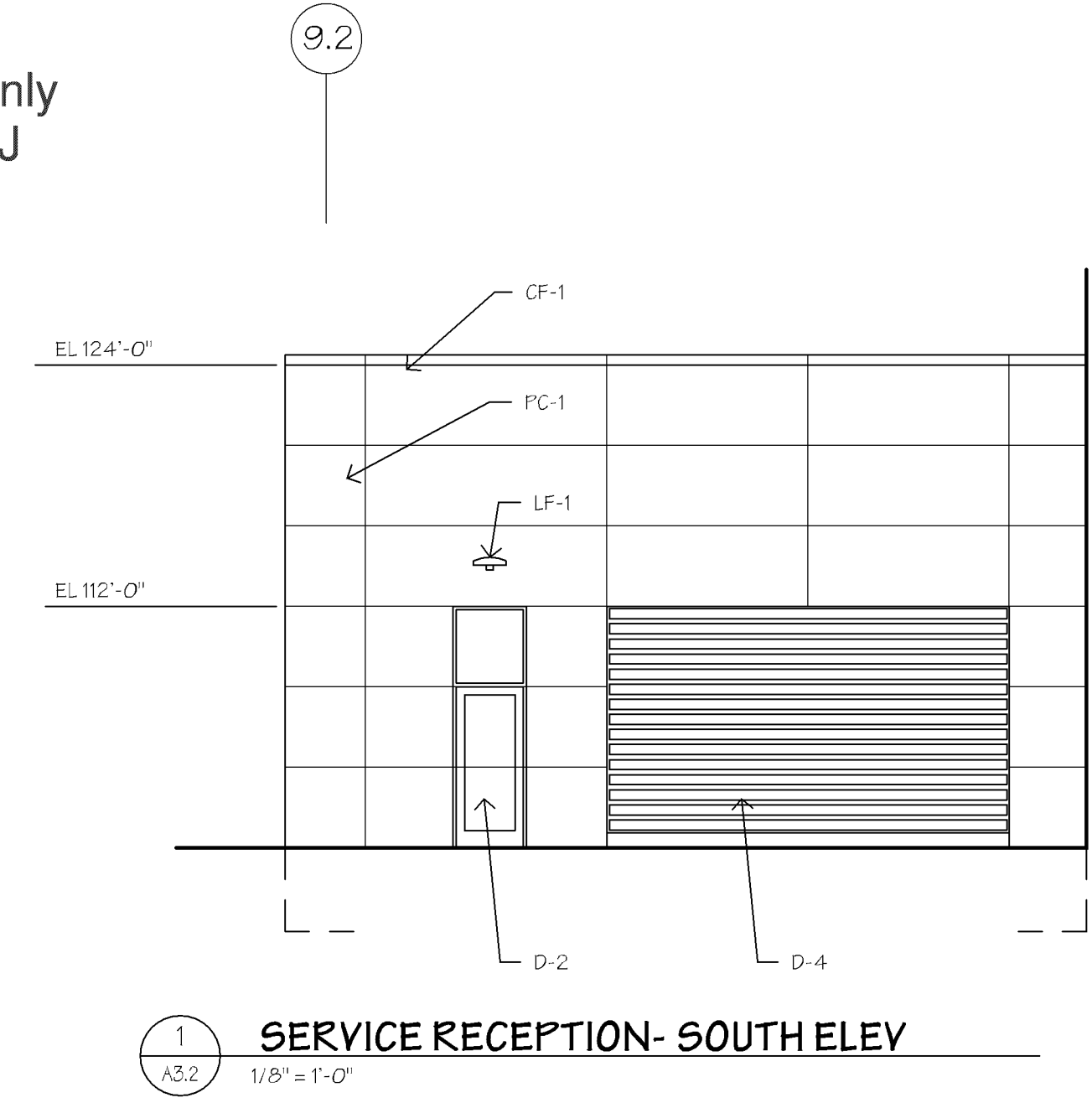
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PROJECT NO.:

EXTERIOR ELEVATIONS

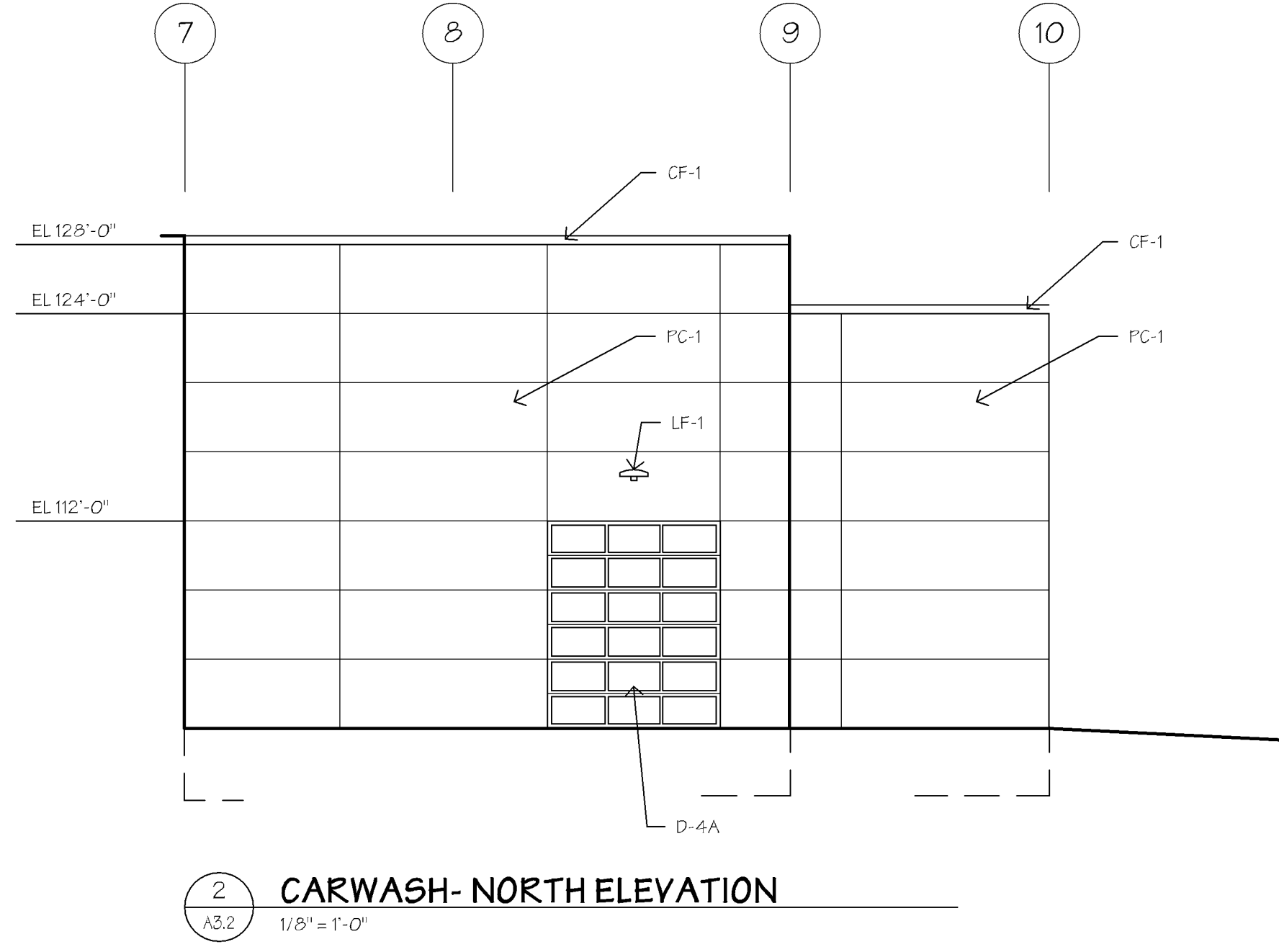
A3.1

CASE #PL2021-42

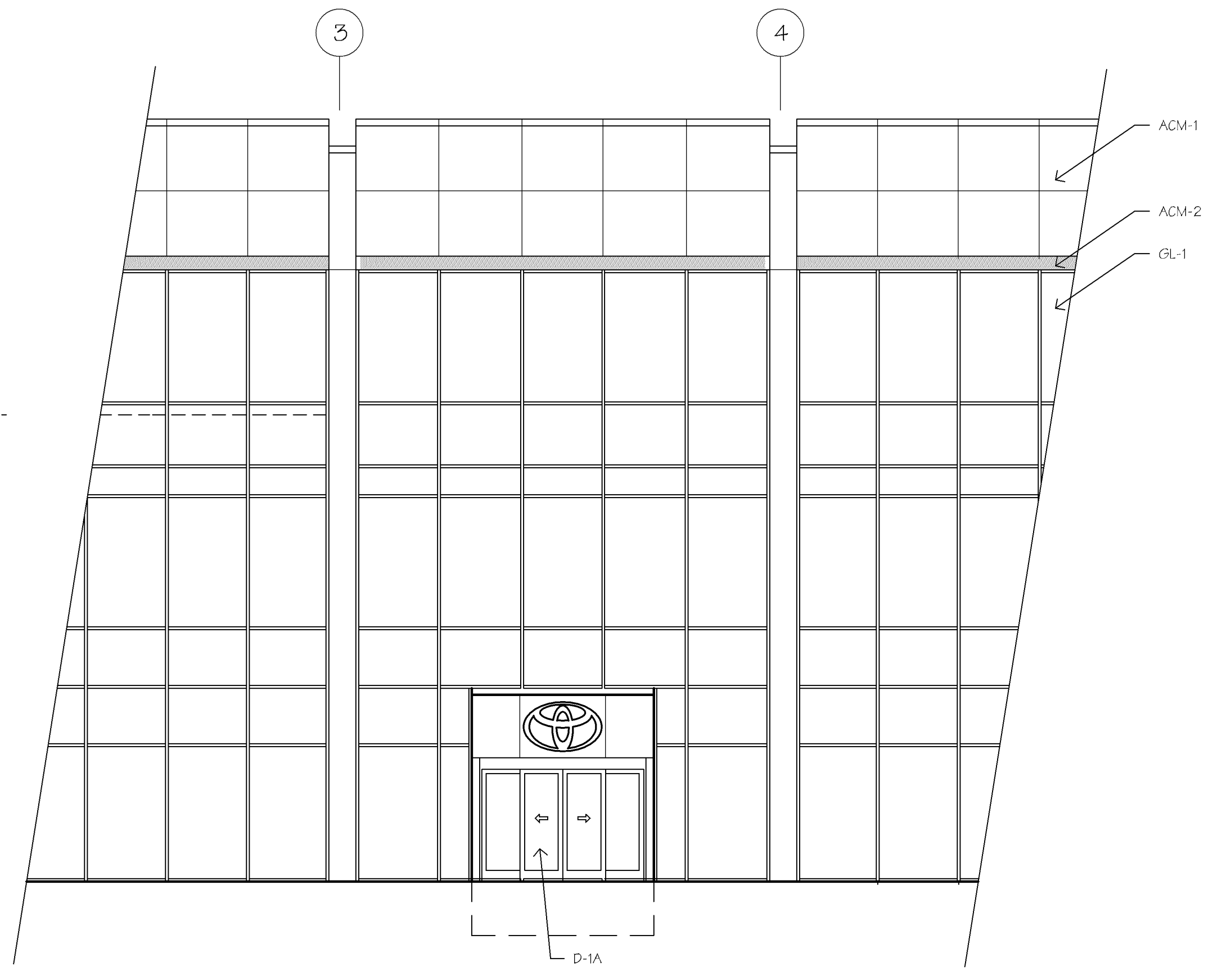
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11/07/2022 NMJ



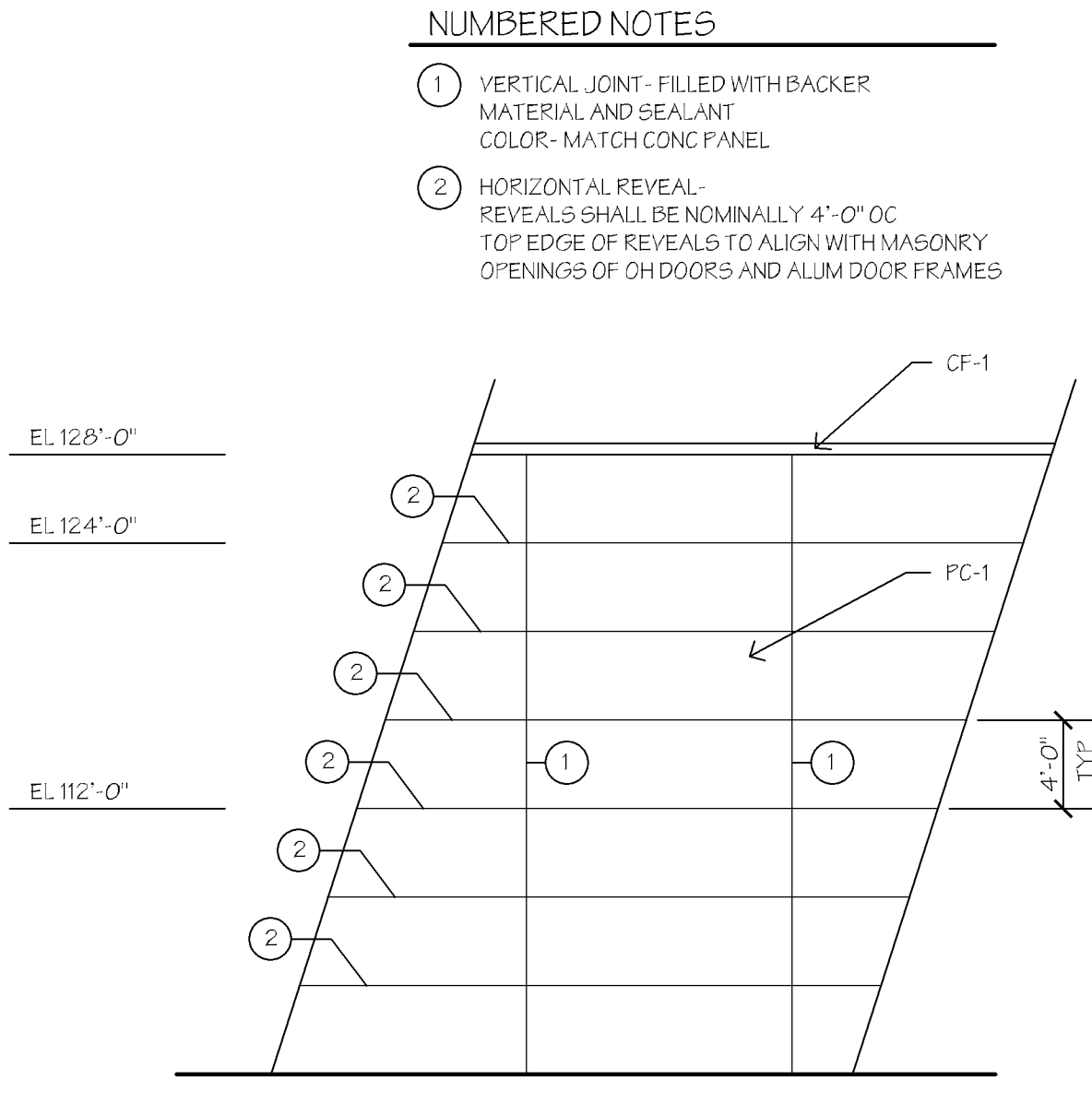
1 SERVICE RECEPTION- SOUTH ELEV
A3.2 1/8" = 1'-0"



2 CARWASH- NORTH ELEVATION
A3.2 1/8" = 1'-0"



3 PARTIAL NORTH ELEV- SHOWROOM
A3.2 1/8" = 1'-0"



4 TYPICAL PRECAST WALL PANEL
A3.2 1/8" = 1'-0"

- NUMBERED NOTES**
- ① VERTICAL JOINT- FILLED WITH BACKER MATERIAL AND BEAJUNT. COLOR: MATCH CONC. PANEL
 - ② HORIZONTAL REVEAL- REVEALS SHALL BE NOMINALLY 4'-0" OC. TOP EDGE OF REVEALS TO ALIGN WITH MASONRY OPENINGS OF GH DOORS AND ALUM DOOR FRAMES

KEY

ACM-1	PREFINISHED METAL WALL PANEL (ACM) DRY JOINT SYSTEM. COLOR: SILVER/METALLIC
ACM-2	PREFINISHED METAL WALL PANEL (ACM) DRY JOINT SYSTEM. COLOR: "TOYOTA RED"
ACM-3	PREFINISHED METAL WALL PANEL (ACM) DRY JOINT SYSTEM. COLOR: GRAPHITE GREY (RAL 7024)
CF-1	PREFINISHED METAL CAP FLASHINGS. COLOR: TO MATCH WALL BELOW
GL-1	ALUM FRAME CURTAIN WALL SYSTEM WITH CLEAR INSULATED GLASS. MULLIONS- "CAPPED" WITH ALUM COVER. COLOR: CLEAR ANODIZED
SF-1	ST OPERFRONT ALUMINUM WINDOW SYSTEM WITH CLEAR INSULATED GLASS. COLOR: CLEAR ANODIZED
PC-1	DECORATIVE PRECAST CONCRETE WALL PANEL. COLOR: INTEGRAL COLORED CONC TO MATCH EXISTING PARKING RAMP. TYPICAL
D-1	"EXTERIOR CAR DOOR"- ENTRY DOOR SYSTEM WITH ALUMINUM FRAME AND CLEAR INSULATED GLASS. COLOR: CLEAR ANODIZED
D-1A	"AUTOMATIC" ENTRY DOOR SYSTEM WITH ALUMINUM FRAME AND CLEAR INSULATED GLASS. COLOR: CLEAR ANODIZED
D-2	"EXTERIOR MAN DOOR"- ENTRY DOOR SYSTEM WITH ALUMINUM FRAME AND CLEAR INSULATED GLASS. COLOR: CLEAR ANODIZED
D-3	NOT USED
D-4	HIGH-SPEED COILING GH DOOR, ALUMINUM FRAMING WITH CLEAR POLY CARBONATE WINDOWS- FULLVIEW. COLOR: CLEAR ANODIZED
D-4A	GH DOOR- ALUMINUM FRAMING WITH CLEAR INSULATED GLASS. COLOR: CLEAR ANODIZED
D-4B	GH DOOR- PREFINISHED METAL WITH SOLID INSULATED PANELS. COLOR: CLEAR ANODIZED
LF-1	EXTERIOR LIGHT FIXTURE- WALL MOUNTED "DOWN LIGHT" DESIGN

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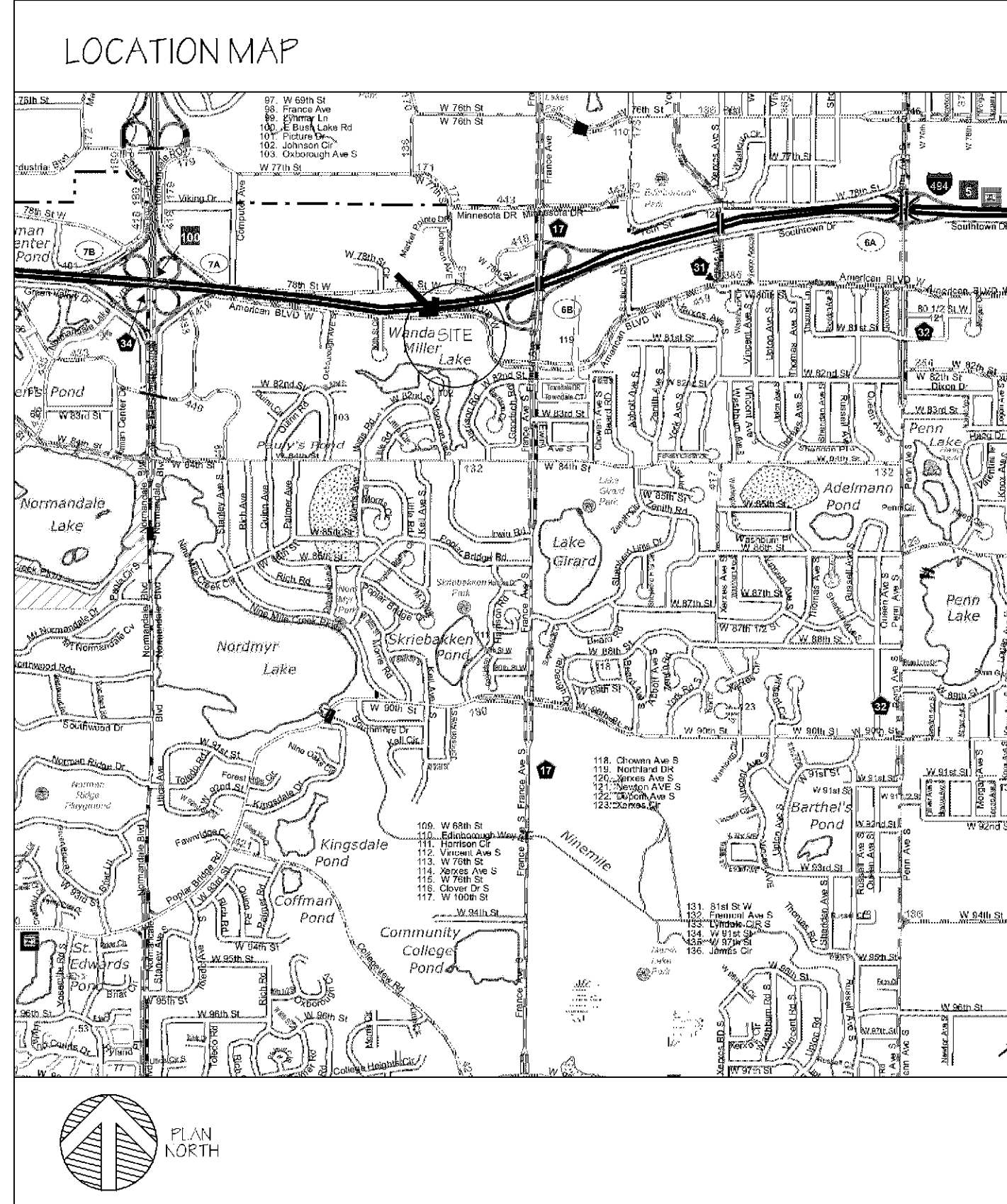
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PROJECT NO.:
EXTERIOR ELEVATIONS

A3.2

CASE #PL2021-42

WALSER TOYOTA RAMP

BLOOMINGTON, MN



SHEET INDEX

A0.0	TITLE SHEET
A0.05	LIFE SAFETY CODE PLANS
A2.0	OVERALL GRADE LEVEL-TIER ONE RAMP PLAN
A2.1	OVERALL TIER TWO RAMP PLAN
A2.2	OVERALL TIER THREE RAMP PLAN
A2.3	OVERALL ROOF PARKING RAMP PLAN
A3.0	EXTERIOR RAMP ELEVATIONS - NORTH & SOUTH
A3.1	EXTERIOR RAMP ELEVATIONS - WEST
A3.2	EXTERIOR RAMP ELEVATIONS - EAST
A4.0	DOOR SCHEDULE & FRAME ELEVATIONS
A4.1	SHARPLY ANG
A5.0	WALL SECTIONS
A5.1	WALL & STAIR SECTION - STAIR A
A5.2	STAIR SECTION - STAIR B
A5.3	STAIR SECTION - STAIR B
A5.0	DETAILS

DRAWING SYMBOLS

101	ROOM NUMBER
101	DOOR NUMBER
101	JITTER - DETAIL NUMBER (REFERENCE NUMBER)
101	LOWER - DRAWING SHEET NUMBER
101	ELEVATION VIEW
101	ARROW SHOWS DIRECTION OF VIEW
101	ELEVATION VIEW
101	LETTERS INDICATE MULTIPLE VIEWS
101	CROSS-SECTION VIEW
101	FLAG SHOWS DIRECTION OF VIEW
101	PARTITION WALL TYPE
101	NUMBERED NOTE - (DRAWING)
101	MARKER - BUILDING MATERIAL
101	SEE MATERIAL LIST
101	MARKER - FINISH MATERIAL
101	MASONRY WALL - PLAN VIEW

Reviewed for Code Compliance
Date: 10/25/2021
By: K. Beyer
Plan # PRBD202109088

Any alterations to this plan must be submitted to the City Plans Examiner for review.
This plan must be maintained and accessible at the construction site for ALL inspections.

Separate permits required for Trades. Plans required for all trade permits with valuation greater than \$50,000.

Must meet 2020 MN State Building Code

Must meet 2020 MN Accessibility Code.

If any work is done that requires special inspections-the special inspection form needs to be provided to the city plan reviewer. No work shall be covered prior to the City Inspector seeing the work done and viewing the completed special inspection results .

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ISSUE/REVISION:
5/11/2021: ISSUE FOR DD
6/25/2021: ISSUE FOR PERMIT

DRAWN BY: DAP
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PROJECT NO.:

TITLE SHEET

A0.0

CASE #PL2021-42

CODE REVIEW

CODE-2020 MINNESOTA STATE BUILDING CODES
 IRC 2018 (AS ADOPTED) MN-1505
 MINNESOTA ACCESSIBILITY CODE MN-1541
 MINNESOTA ENERGY CODE MN-1523

OCCUPANCY CLASSIFICATION: S-2 PARKING GARAGE - OPEN

SECTION 406 MOTOR-VEHICLE-RELATED OCCUPANCIES
 406.2.2 CLEAR HEIGHT - NOT LESS THAN 7 FEET
 406.4.2 VEHICLE BARRIERS - 2'-9" MIN HIGH AT DRIVE AND PARKING SPACES

406.5 OPEN PARKING GARAGE
 406.5.2 OPENINGS
 NATURAL VENTILATION - EXTERIOR WALLS OF EACH TIER MUST BE AT LEAST 20 PERCENT OPEN
 OPENINGS MUST BE DISTRIBUTED ON TWO OR MORE SIDES

TABLE 406.5.4 OPEN PARKING GARAGE HEIGHT AND AREA
 CONSTRUCTION TYPE I-B
 HEIGHT (RAMP ACCESS) UNLIMITED
 AREA UNLIMITED

406.5.6 FIRE SEPARATION DISTANCE SEE TABLE 601 AND TAB. E.602

TABLE 601-TYPE I-B
 1-B PRIMARY STRUCTURAL FRAME 2-HOURS
 BEARING WALLS 2-HOURS
 FLOOR CONSTRUCTION AND SECONDARY MEMBERS 2 HOURS
 ROOF CONSTRUCTION AND SECONDARY MEMBERS 1-HOUR

TABLE 602 - OCCUPANCY S-2
 10 TO SOFT FLOOR FINISH RATING REQUIRED MORE THAN 300' PATING REQUIRED 0 HOURS

406.5.7 MEANS OF EGRESS - SEE CHAPTER 10
 406.5.9 ENCLOSURE OF VERTICAL OPENINGS ARE NOT REQUIRED EXCEPT AS REQUIRED BY 406.5.7 (CHAPTER 10)

710.10.1 VERTICAL OPENINGS OPENINGS SHALL BE ALLOWED FOR AUTO RAMPS IN A PARKING GARAGE
 710.10.2 VERTICAL OPENINGS OPENINGS SHALL BE ALLOWED FOR ELEVATOR HOISTWAY IN A PARKING GARAGE

1009.5.5 EXCEPTION - AREA OF REFUGE NOT REQUIRED AT STAIRWAYS SERVING OPEN PARKING GARAGE
 1009.4.2 EXCEPTION - AREA OF REFUGE NOT REQUIRED AT THE ELEVATOR IN OPEN PARKING GARAGE

TABLE 1017.2
 EXIT ACCESS TRAVEL DISTANCE: S-2 300 FEET

1017.3 EXCEPTION - OPEN PARKING GARAGE MEASURE TRAVEL DISTANCE TO RISER OF EXIT ACCESS STAIR

1018.3 OCCUPANCY GROUP S-2 ITEM #6 - OPEN PARKING GARAGE - EXIT ACCESS STAIRWAY ENCLOSED SHWF NOT REQUIRED

3006.7 EXCEPTION - ELEVATORS IN OPEN PARKING GARAGE NEED NOT BE SEPARATED FROM STAIRWAY ENCLOSURES

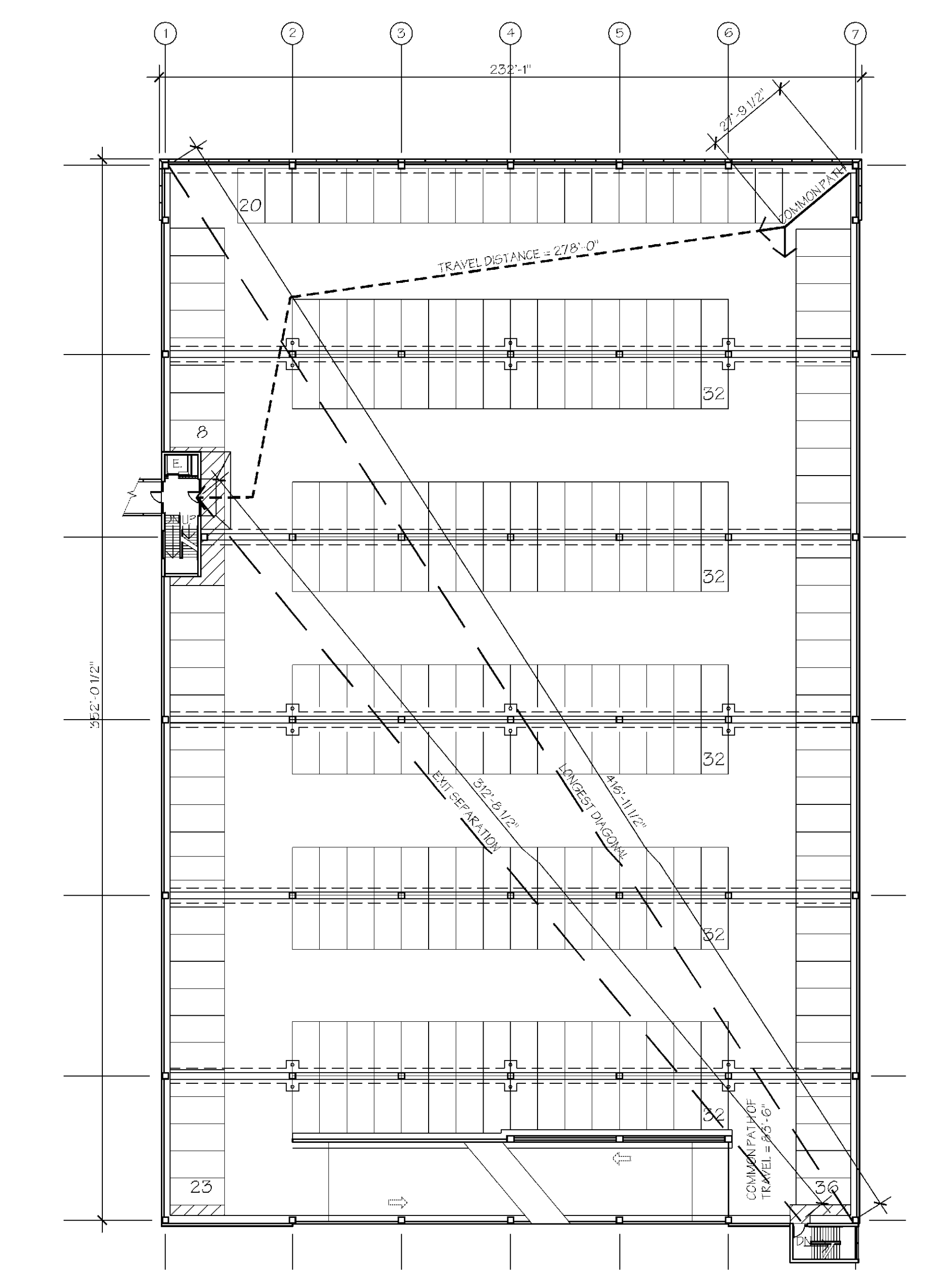
OPEN PARKING RAMP OPEN AREA CALCULATIONS

West Wall (W)	OPEN (H)	OPEN AREA	East Wall (W)	OPEN (H)	OPEN AREA
G to F	42	5	210	42	5
N of Tower F to E	31	5	155	58	5
S of Tower E to D	46	5	230	58	5
D to C	58	5	290	58	5
C to B	58	5	290	58	5
B to A	46	5	230	46	5
TOTAL OPEN AREA			1,405		
TOTAL WALL AREA	352	12.33	4,340	352	12.33
PERCENT OF Open Wall			32.4%		

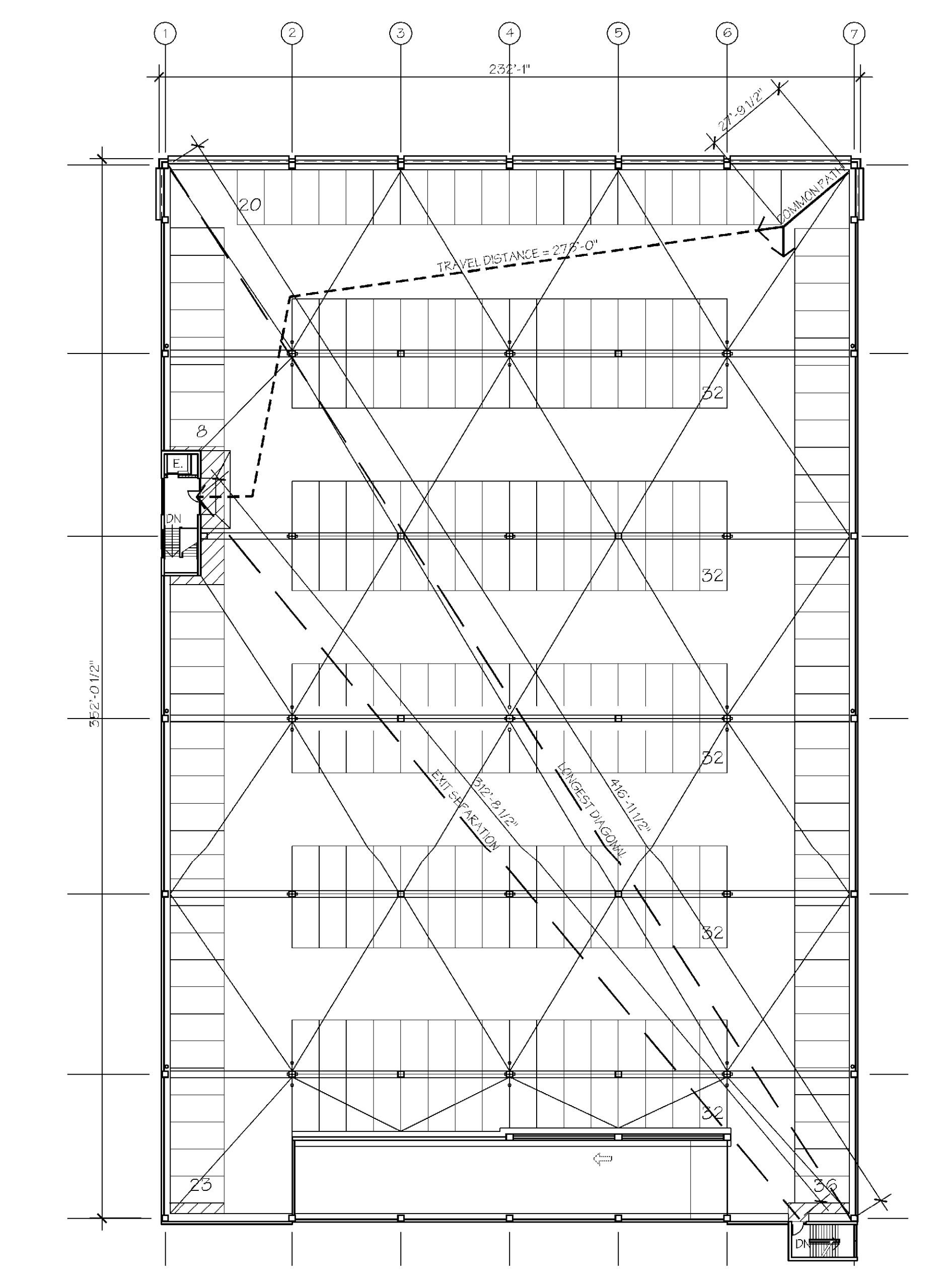
North Wall (W)	OPEN (H)	OPEN AREA	South Wall (W)	OPEN (H)	OPEN AREA
1 to 2	40	0	40	0	0
2 to 3	34	0	34	0	0
3 to 4	34	0	34	0	0
4 to 5	34	0	34	5	170
5 to 6	34	0	34	5	170
6 to 7	40	0	40	0	0
TOTAL OPEN AREA			340		
TOTAL WALL AREA	230	12.33	2,836	230	12.33
PERCENT OF Open Wall			0.0%		

TOTAL WALL AREA OF TIER	West	East	North	South
West	4,340			
East	4,340			
North	2,836			
South	2,836			
				14,352

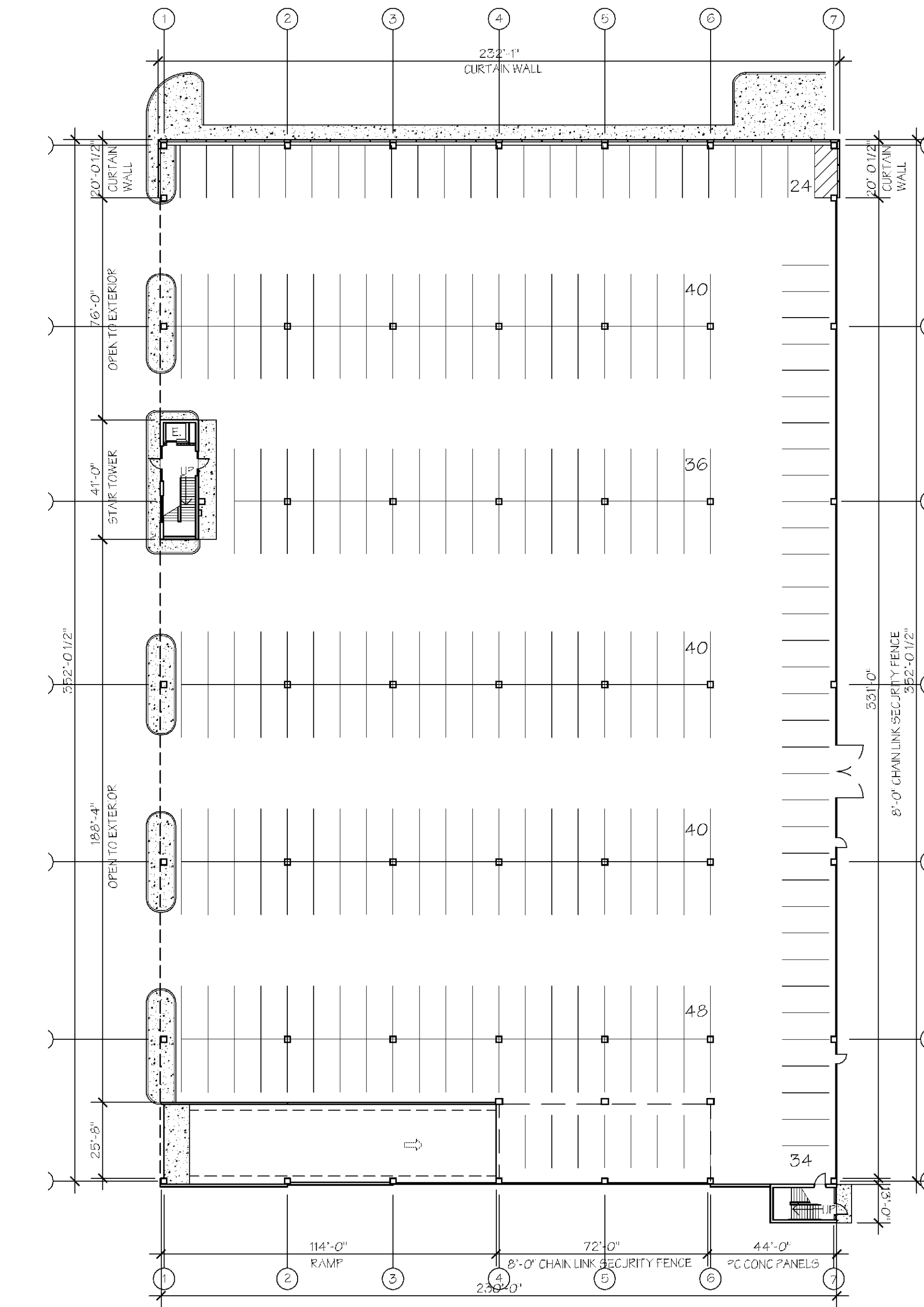
TOTAL OPEN AREA TIER	West	East	North	South	
West	1,405				
East	1,600				
North					
South					
				3,345	
PERCENT OPEN PER TIER					23.3%



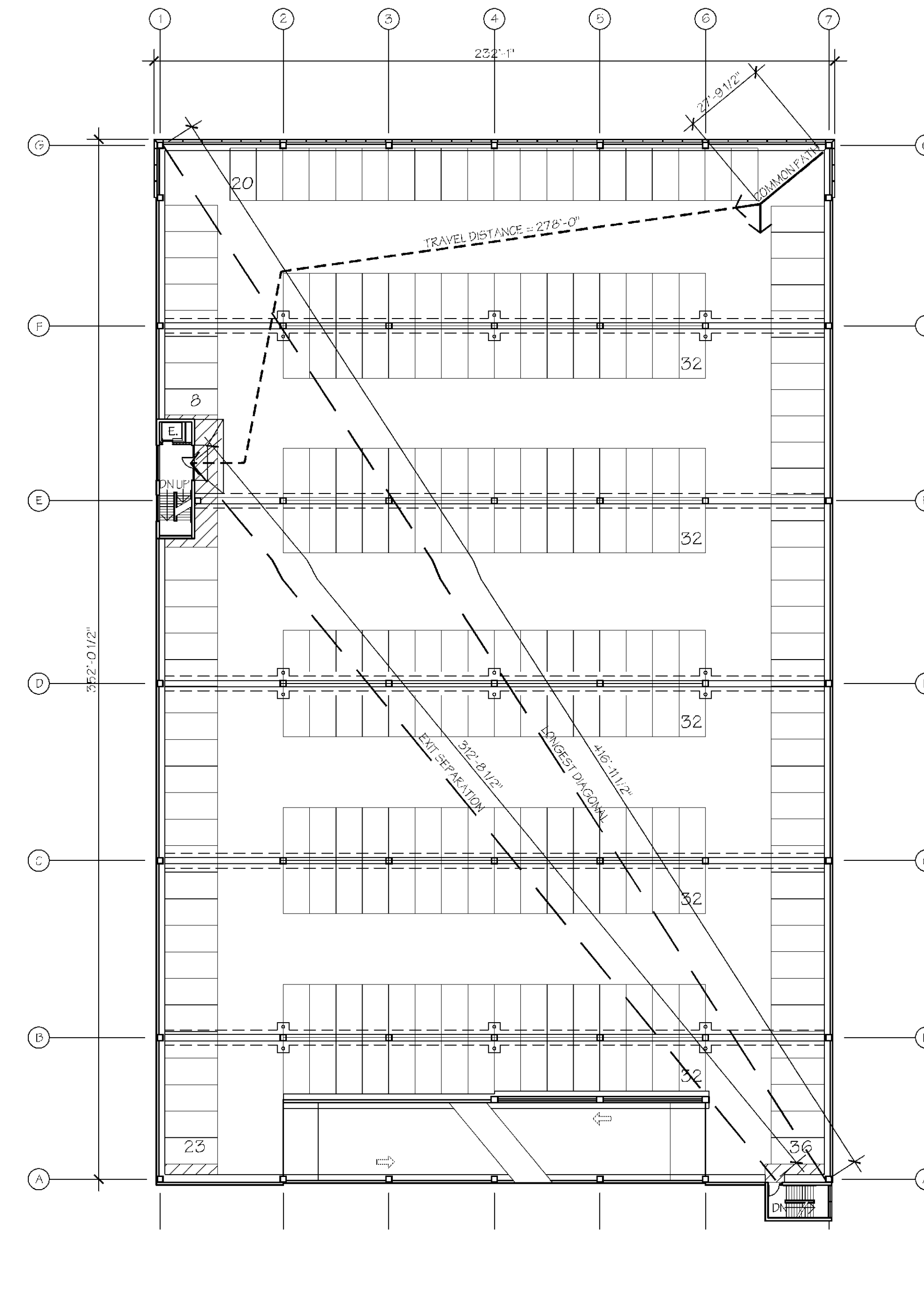
2 TIER TWO CODE PLAN
 1/32" = 1'-0" NORTH



4 ROOF PARKING CODE PLAN
 1/32" = 1'-0" NORTH



1 GRADE LEVEL-TIER ONE CODE PLAN
 1/32" = 1'-0" NORTH



3 TIER THREE CODE PLAN
 1/32" = 1'-0" NORTH

Per 406.5.11:
 The following uses and alterations are not permitted:
 1. Vehicle repair work.
 2. Parking of buses, trucks and similar vehicles.
 3. Partial or complete closing of required openings in exterior walls by tarpaulins or any other means.
 4. Dispensing of fuel.

All construction materials shall be non-combustible.
 Maximum flame spread allowable for all finishes = 200.
 Provide Sprinkler protection as approved by the Fire Marshal.
 No combustibles shall be allowed in air plenums.

Fire and Life Safety System Requirements (Sprinklers, fire alarms, horns, strobes, etc) to be reviewed and approved by the Fire Marshal.

Exit signs & emergency egress illumination shall be as required by the IBC and the Bloomington Fire Marshal.

CODE REVIEW - OCCUPANCY

GROUP	LOAD FACTOR	PRIMARY USE	AREA	PARKING COUNT	OCCUPANTS
GRADE LEVEL-TIER ONE RAMP					
S-2	200	PARKING RAMP	80,925 SF	258	405
TIER TWO RAMP					
S-2	200	PARKING RAMP	80,540 SF	247	405
TIER THREE RAMP					
S-2	200	PARKING RAMP	80,540 SF	247	405
ROOF PARKING RAMP					
S-2	200	PARKING RAMP	80,396 SF	244	402

CODE REVIEW - EXIT ACCESS

DESCRIPTION	REQUIRED	LENGTH
GRADE LEVEL-TIER ONE - EXIT ACCESS TRAVEL DISTANCE		
COMMON PATH OF TRAVEL	< 100' ALLOWED	-
TRAVEL DISTANCE	< 300' ALLOWED	-
EXIT ACCESS ARRANGEMENT		
EXIT SEPARATION	> 1/2 LONGEST DIAGONAL	-
LONGEST DIAGONAL		416'-11 1/2"
TIER TWO, THREE & ROOF PARKING - EXIT ACCESS TRAVEL DISTANCE		
COMMON PATH OF TRAVEL	< 100' ALLOWED	35'-0"
TRAVEL DISTANCE	< 300' ALLOWED	278'-0"
EXIT ACCESS ARRANGEMENT		
EXIT SEPARATION	> 1/2 LONGEST DIAGONAL	312'-8 1/2"
LONGEST DIAGONAL		416'-11 1/2"

CODE REVIEW - EXITING

EXITS, EXIT ACCESS DOORWAYS & STAIRWAYS	
TIER TWO, THREE & ROOF PARKING - EXIT ACCESS TRAVEL DISTANCE	
EXITS REQUIRED PER TABLE 1006.3.2	2
EXITS PROVIDED	2
MEANS OF EGRESS WIDTH	
OCC X .2 = MIN. REQ'D EXIT WIDTH	80.6"
NUMBER OF DOORS X ACTUAL WIDTH = PROVIDED WIDTH	84"
OCC X .3 = MIN. REQ'D STAIR WIDTH	120.9"
NUMBER OF STAIRS X ACTUAL WIDTH = PROVIDED WIDTH	124"

2021 NEW BUILDING FOR:
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DATE: 6/25/2021 REG. NO. 17287

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 6/25/2021 ISSUE FOR PERMIT
 7/15/2021 ADDITIONAL CODE INFO

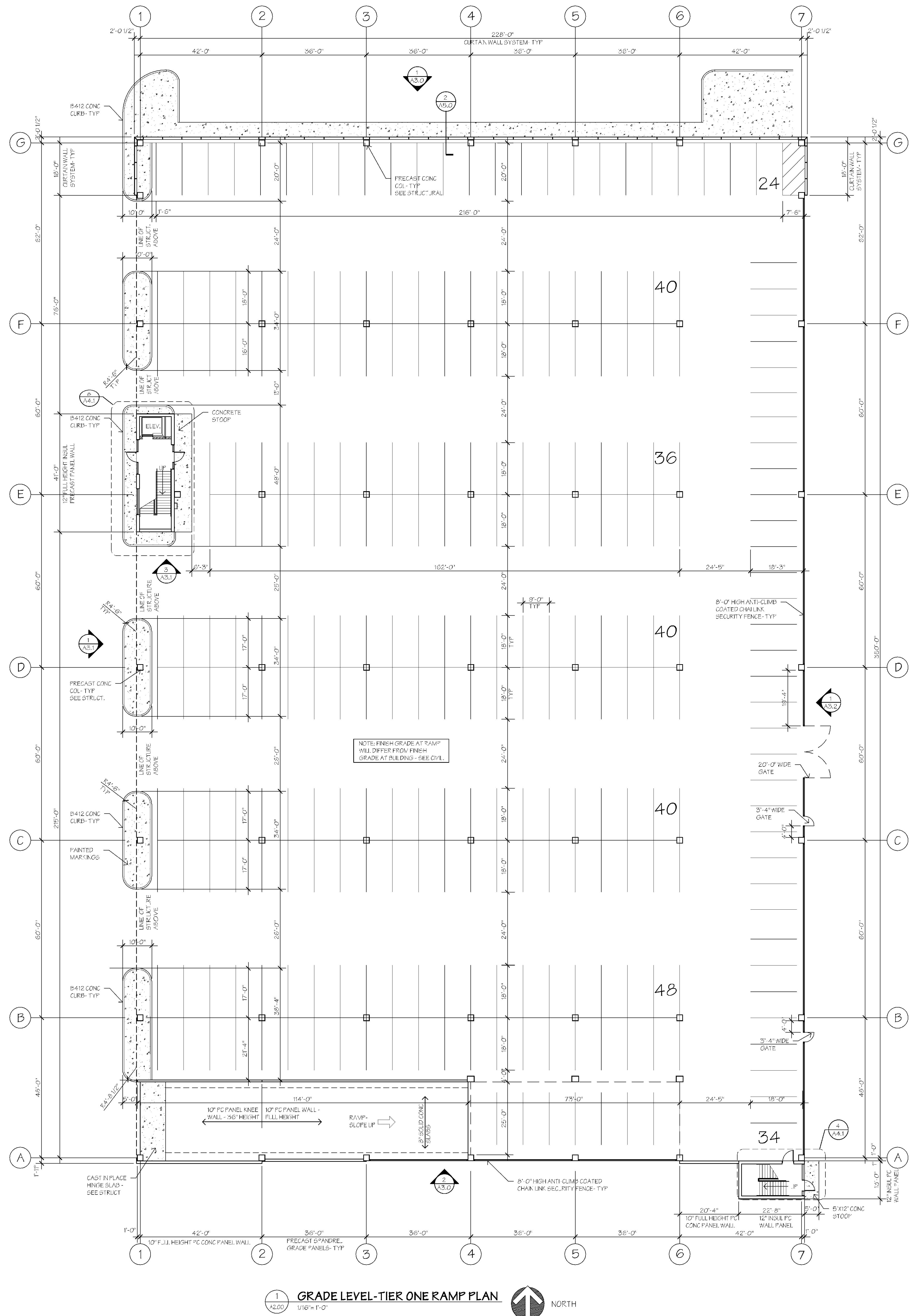
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LIFE SAFETY PLANS / CODE REVIEW

A0.05

CASE #PL2021-42

Per Project Manual - standpipes to be installed in each stair tower. Standpipes shall be installed per Section 905.3 of 2020 MN State Building Code.



1
1/2"=1'-0" GRADE LEVEL-TIER ONE RAMP PLAN NORTH

APPROVED
Zoning Review Only
11/18/2021 NMJ

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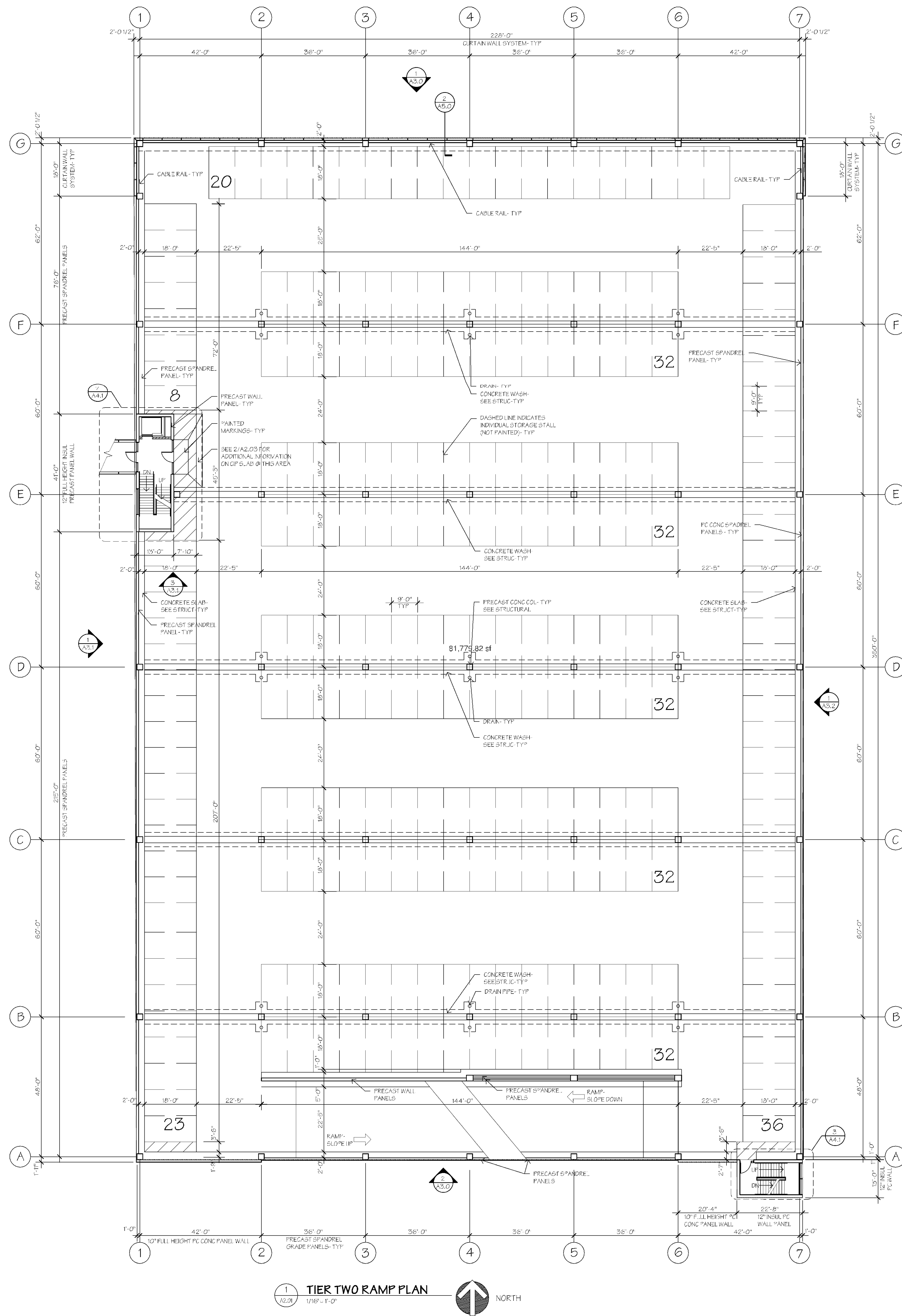
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6/25/2021: ISSUE FOR PERMIT

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OVERALL GRADE
LEVEL-TIER ONE
RAMP PLAN

A2.00

CASE #PL2021-42



1 TIER TWO RAMP PLAN
1/16" = 1'-0" NORTH

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2021 NEW BUILDING FOR:
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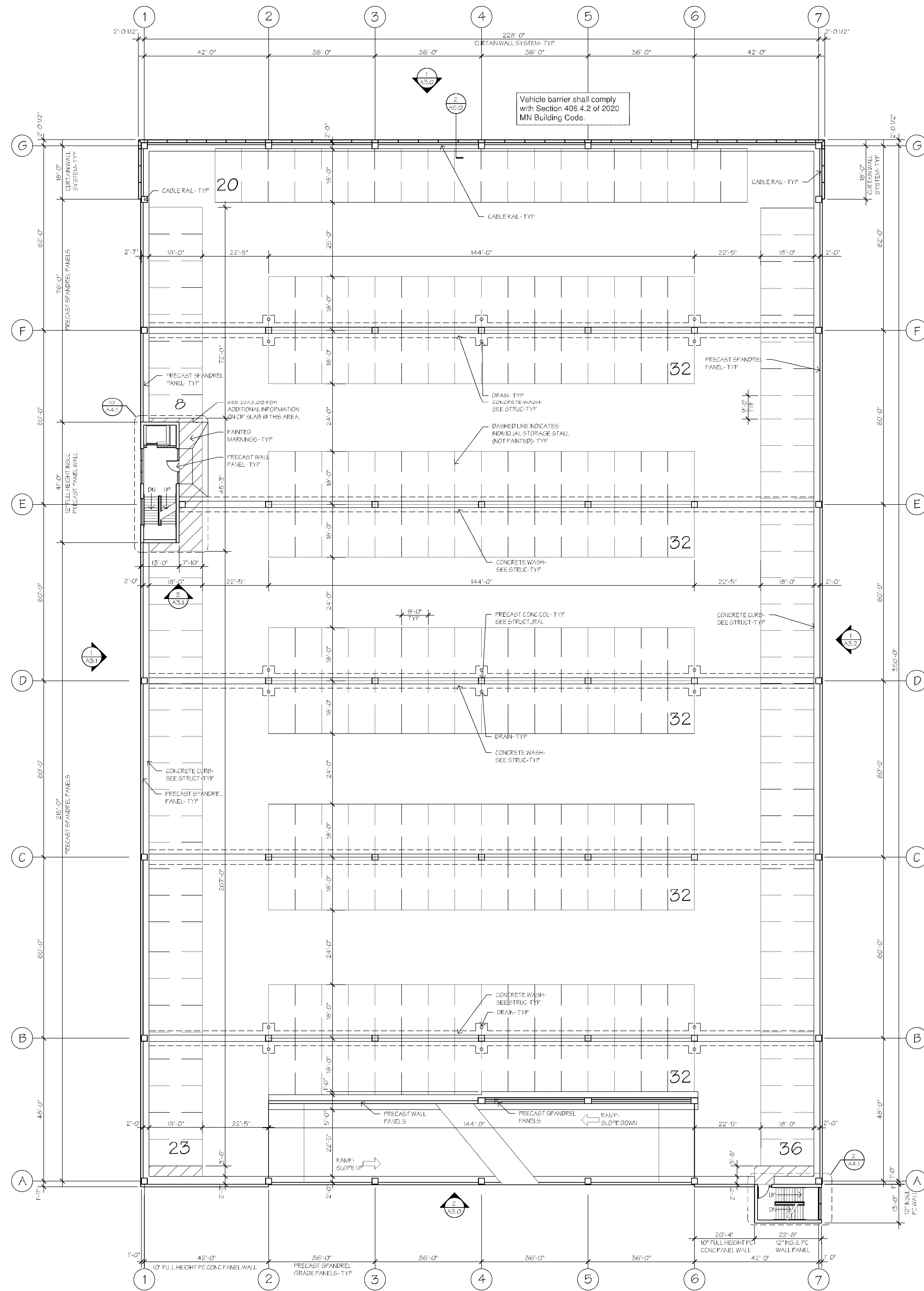
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OVERALL TIER
TWO RAMP PLAN

A2.01

CASE #PL2021-42



1 TIER THREE RAMP PLAN
1/18 - 1'-0" NORTH

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11/18/2021 NMJ

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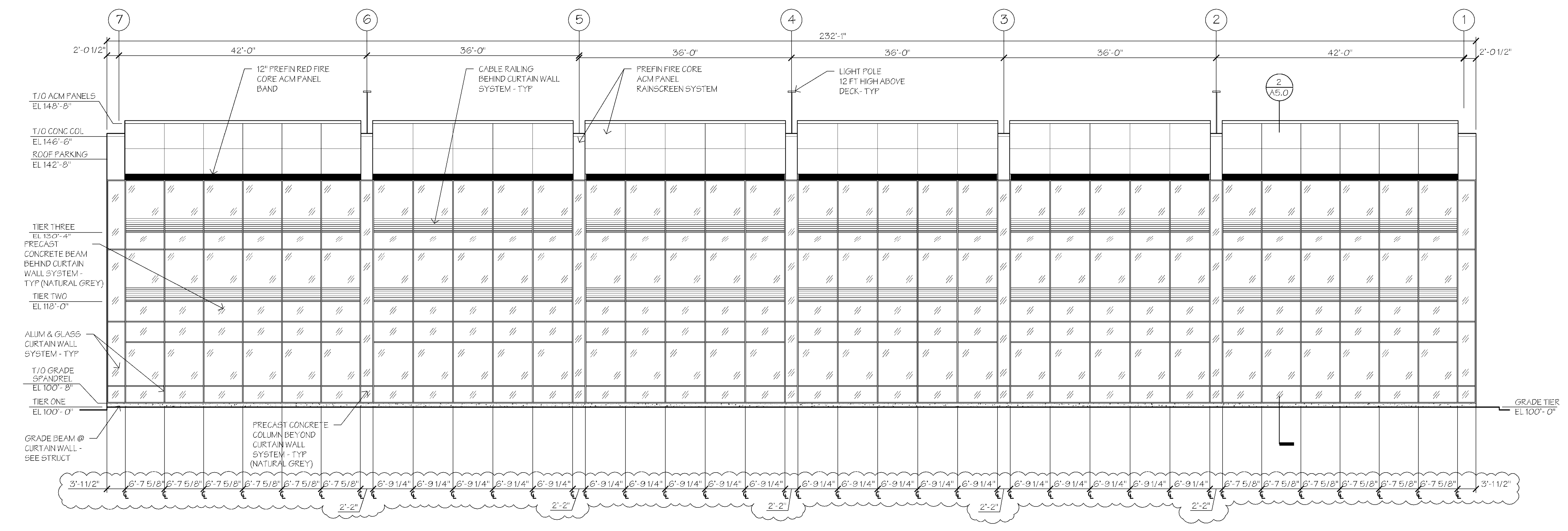
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OVERALL TIER
THREE RAMP PLAN

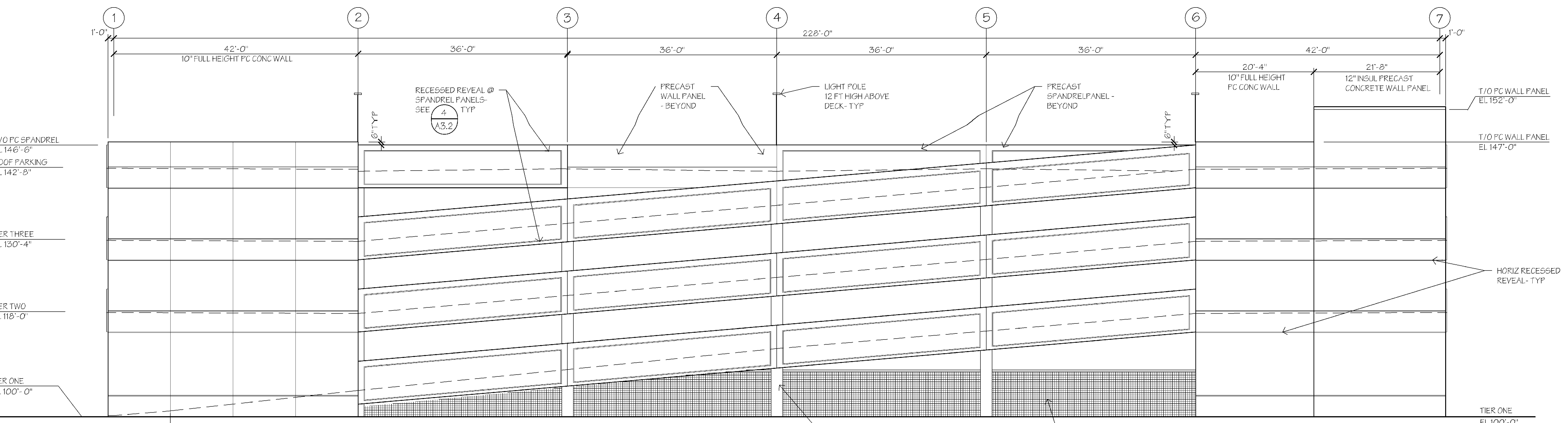
A2.02

CASE #PL2021-42

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1 NORTH ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"

Per 502.6 of 2020 MN Accessibility Code:
A vertical clearance of 98 inches minimum shall be provided at the following locations:
1. Parking spaces for vans.
2. The access aisles serving parking spaces for vans.
3. The vehicular routes serving parking spaces for vans.

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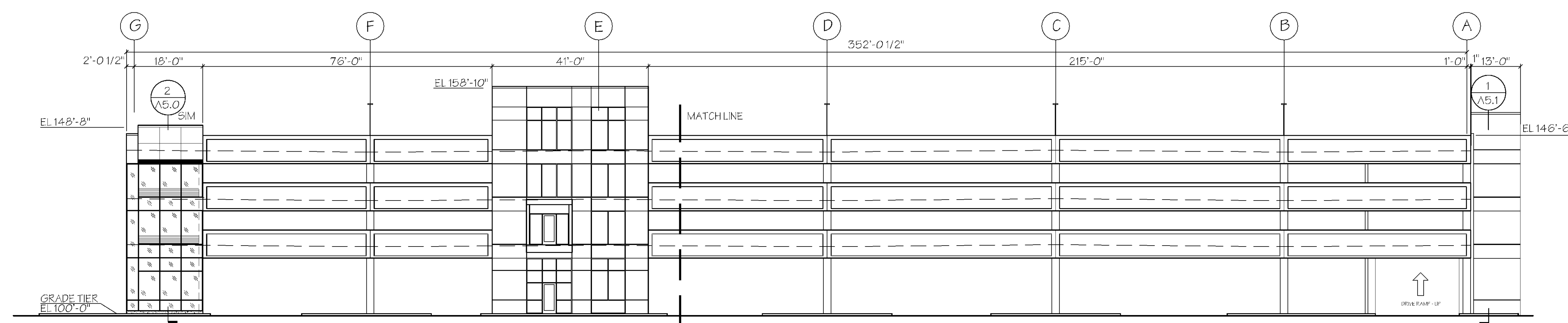
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EXTERIOR ELEVATIONS

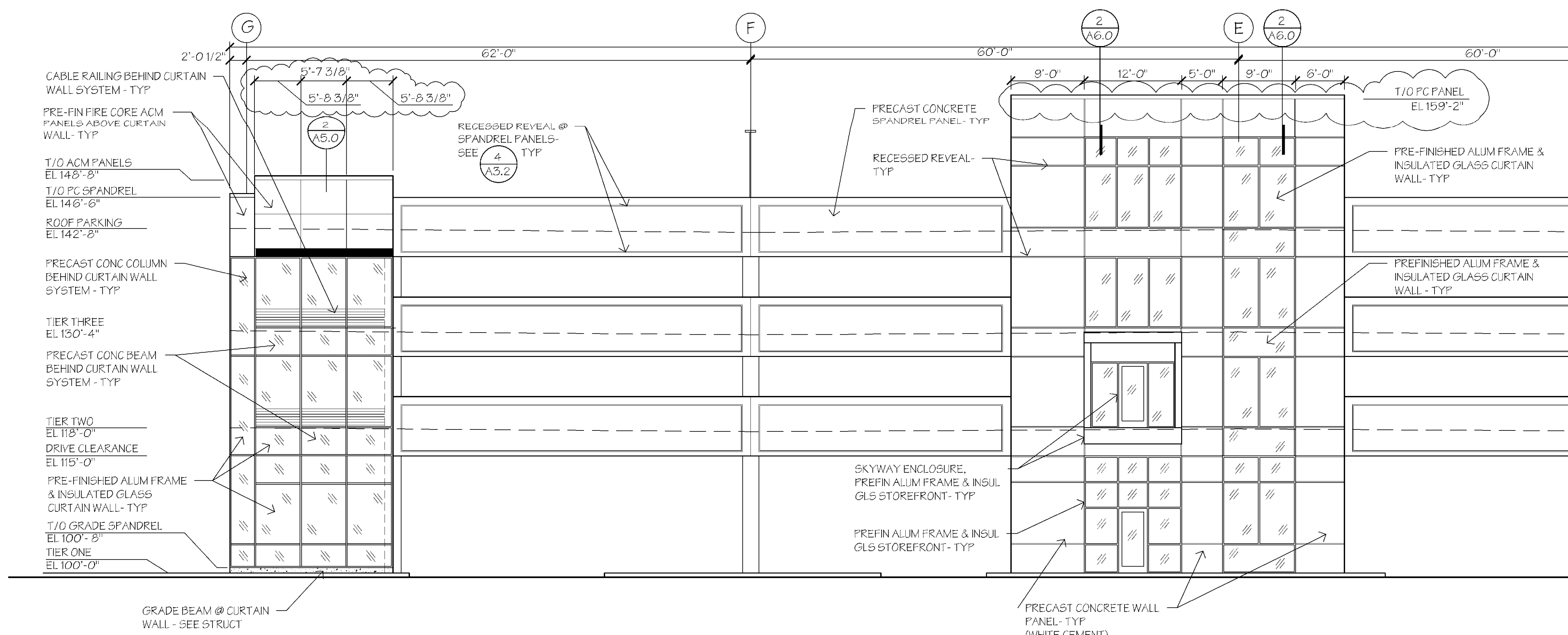
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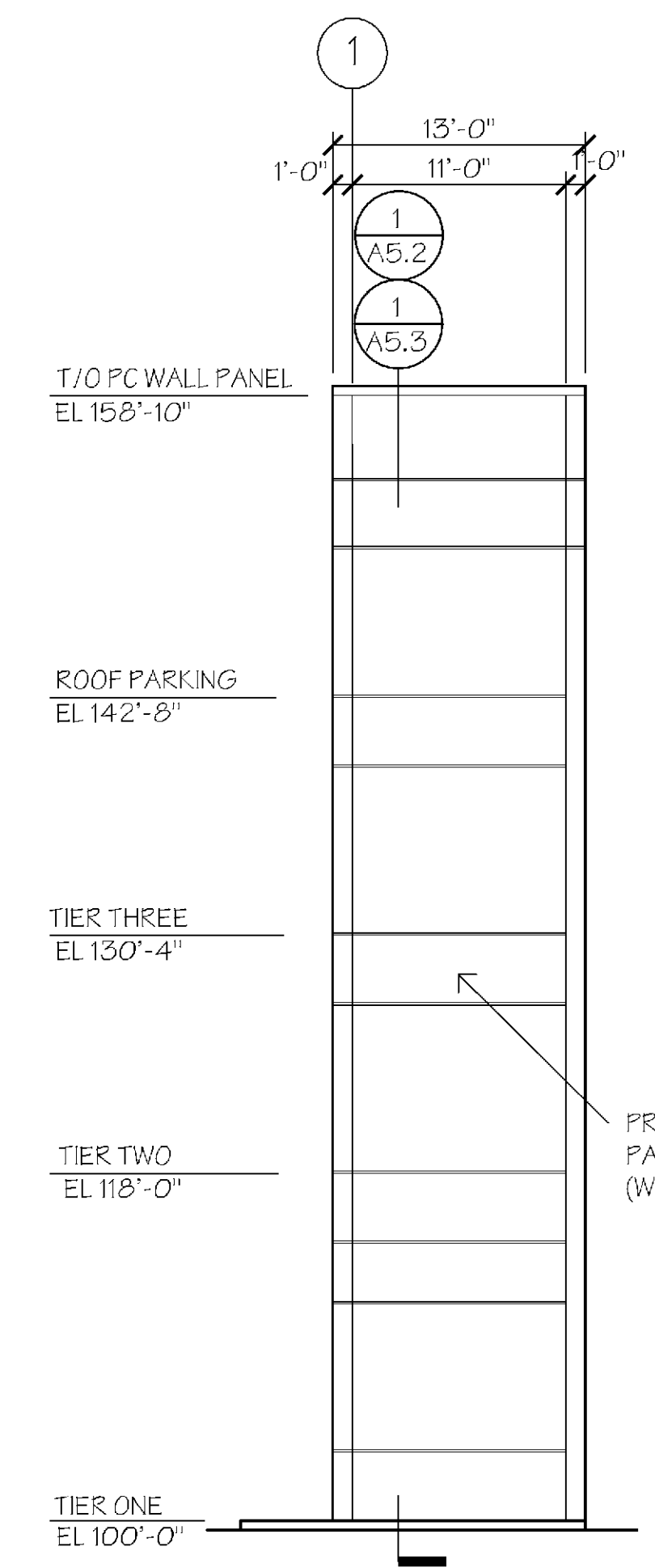
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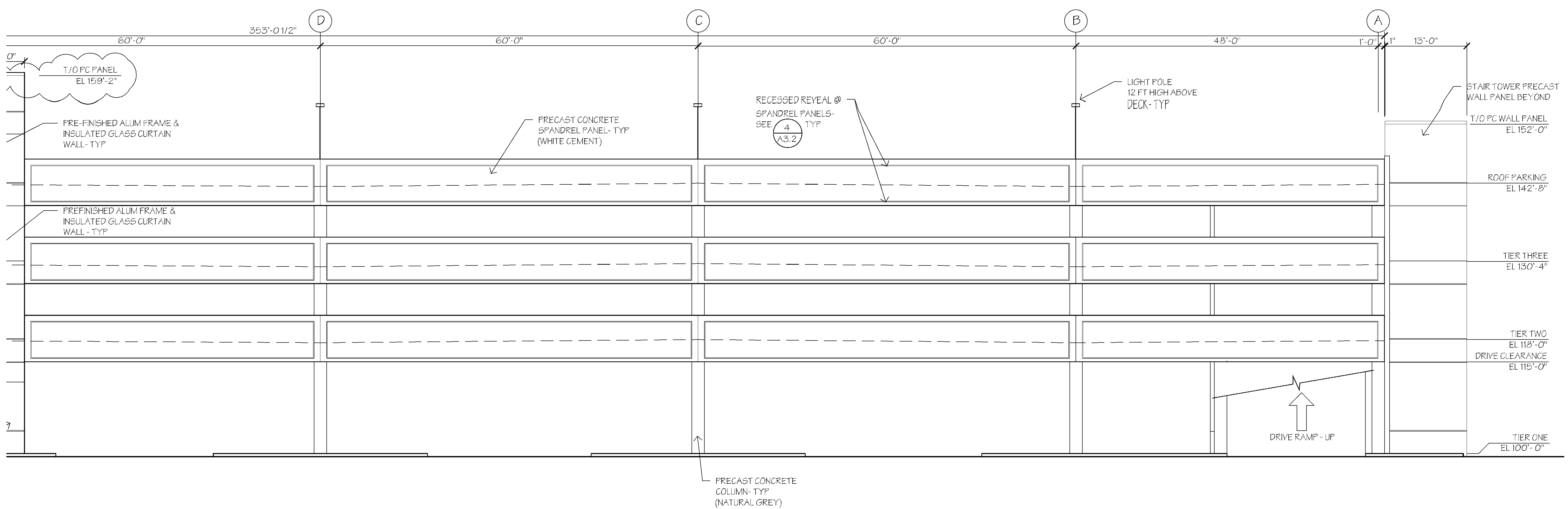
1 OVERALL WEST ELEVATION
A3.1 1/8" = 1'-0"



2 PARTIAL WEST ELEVATION
A3.1 1/8" = 1'-0"



3 SOUTH WALL @ ELEVATOR TOWER ELEVATION
A3.1 1/8" = 1'-0"



4 PARTIAL WEST ELEVATION
A3.1 1/8" = 1'-0"

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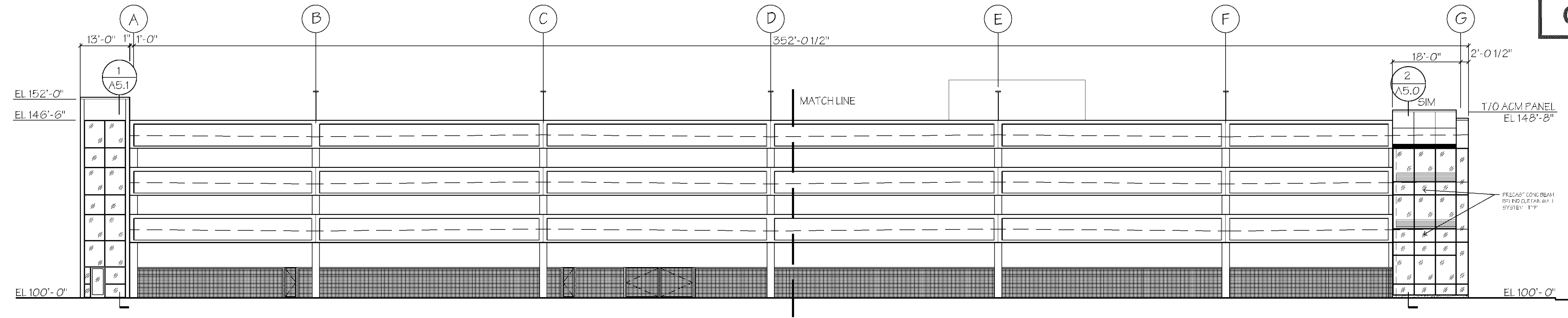
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PROJECT NO.:

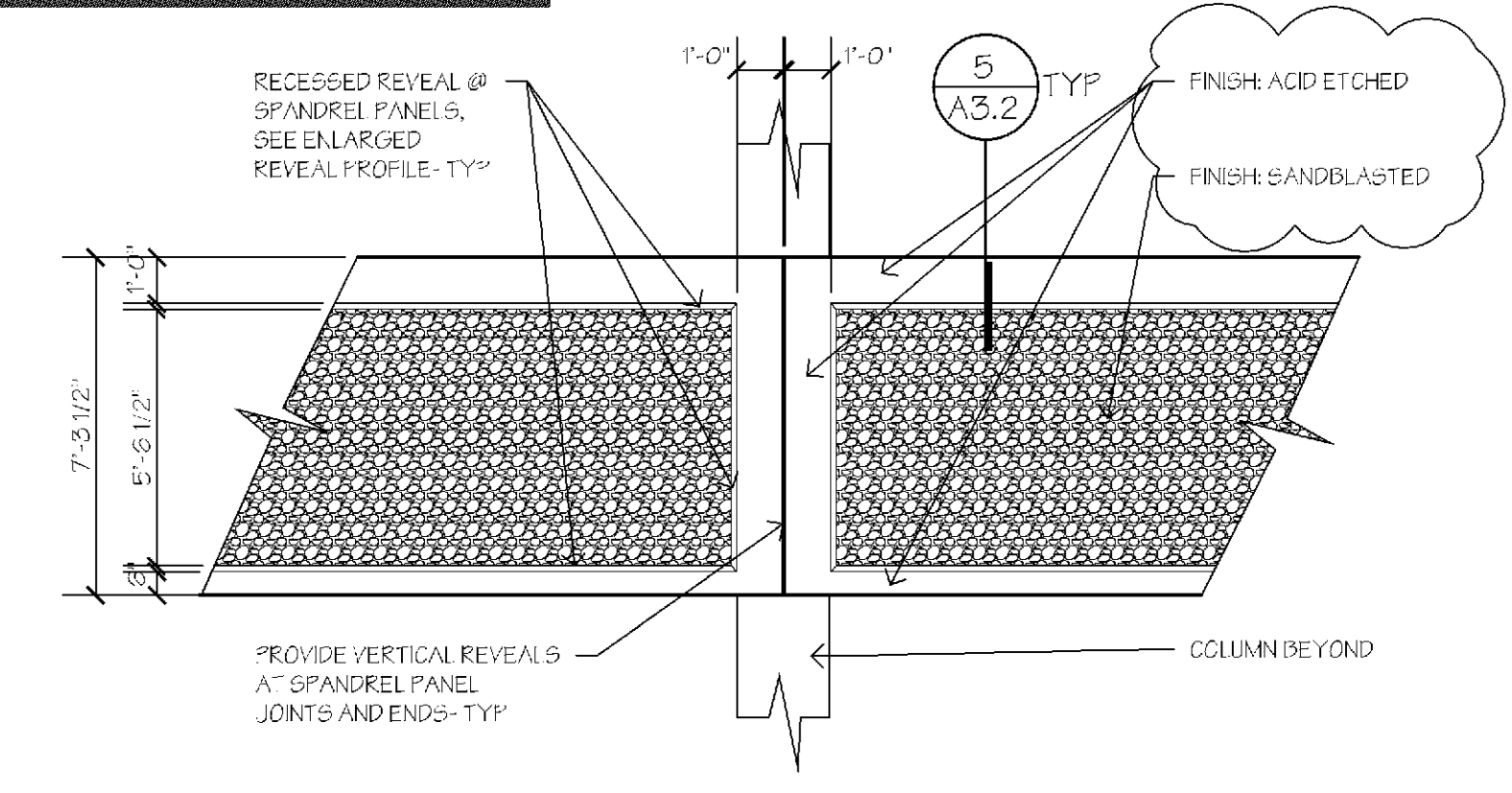
EXTERIOR ELEVATIONS

A3.1

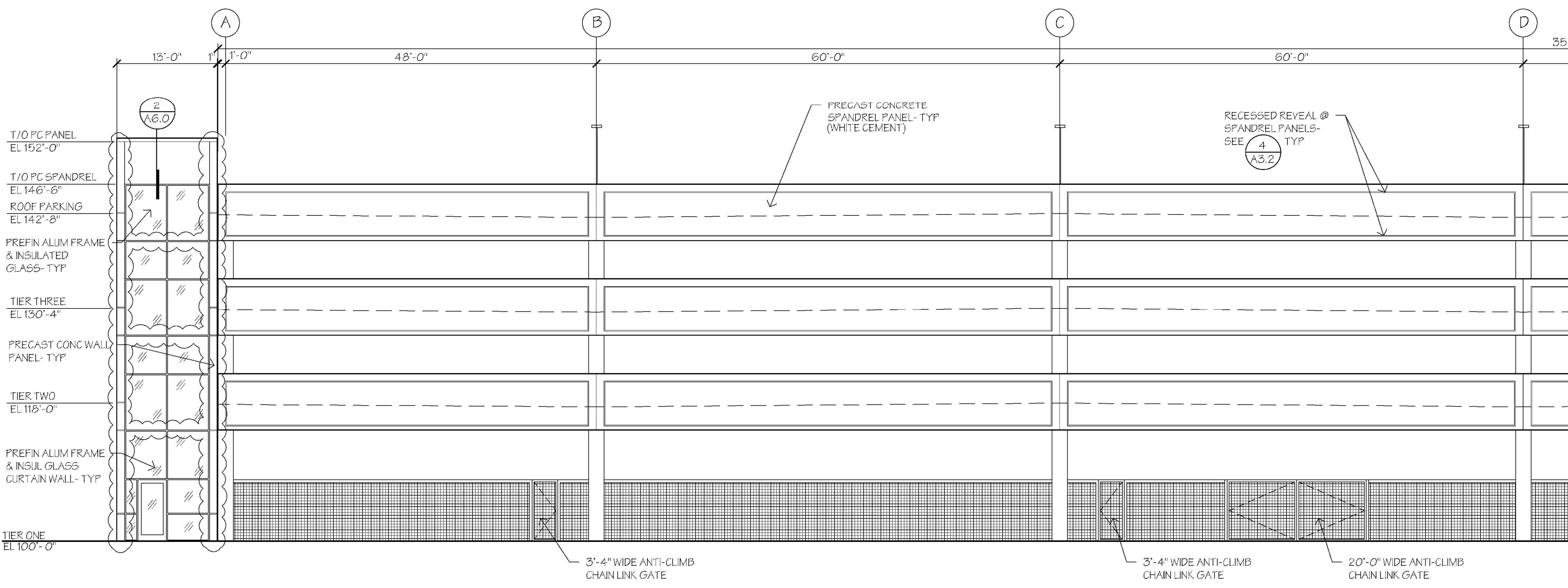
CASE #PL2021-42



1 OVERALL EAST ELEVATION
A3.1
1/16" = 1'-0"



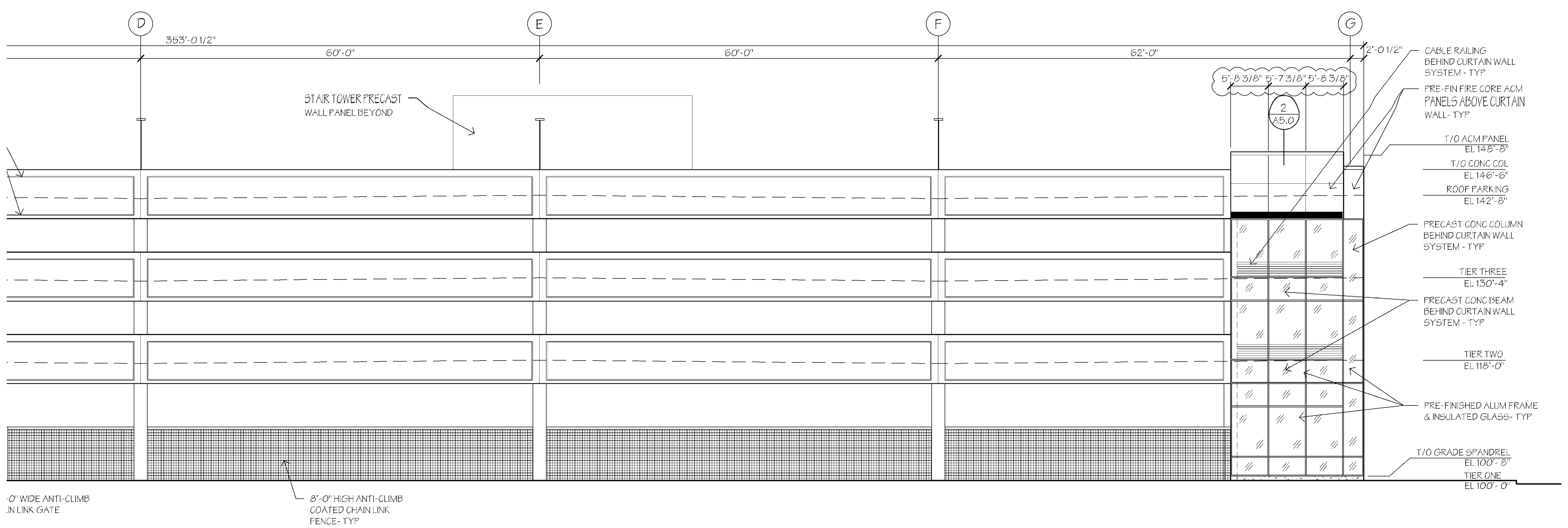
4 TYPICAL SPANDREL PANEL FINISHES
A3.2
1/4" = 1'-0"



2 PARTIAL EAST ELEVATION
A3.3
1/8" = 1'-0"



5 TYPICAL REVEAL PROFILE
A3.5
1/12" = 1'-0"



3 PARTIAL EAST ELEVATION
A3.4
1/8" = 1'-0"

APPROVED
Zoning Review Only
11/18/2021 NMJ

2021 NEW BUILDING FOR:
WALSER TOYOTA RAMP
4401 AMERICAN BLVD
BLOOMINGTON, MINNESOTA

PHILLIPS ARCHITECTS & CONTRACTORS, LTD.

401 North New Street
Suite 400
Minneapolis, MN 55401
P: (612) 968-1281
Email: phillips@phillipsarc.com

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
David A. Phillips

DATE: 6/25/2021 REG. NO. 17387

ISSUE REVISION:
5/11/2021: ISSUE FOR DD
6/25/2021: ISSUE FOR PERMIT

DRAWN BY: DAP
CHECKED BY:
PROJECT NO.:

EXTERIOR ELEVATIONS

A3.2