

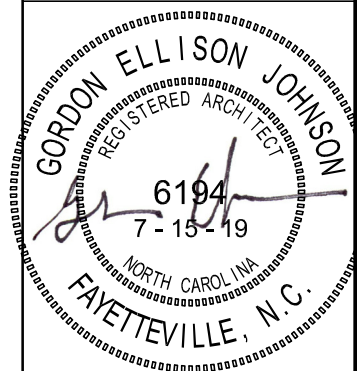
Fayetteville Regional Airport

Airline Terminal Improvements - Part 2

400 Airport Road
Fayetteville, North Carolina 28306
AIP: 3-37-0021-046-2019



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Fayetteville Regional Airport - Airline Terminal Improvements Part 2
Cover Sheet
400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: JDP
REVIEWED BY: GEJ
DATE: 1-15-19
PROJECT NO.: 1802

REVISIONS	
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SHEET NUMBER
TS1.01

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Outbound Baggage Handling Systems

Fayetteville Regional Airport

Airline Terminal Improvements - Part 2

AIP: 3-37-0021-046-2019

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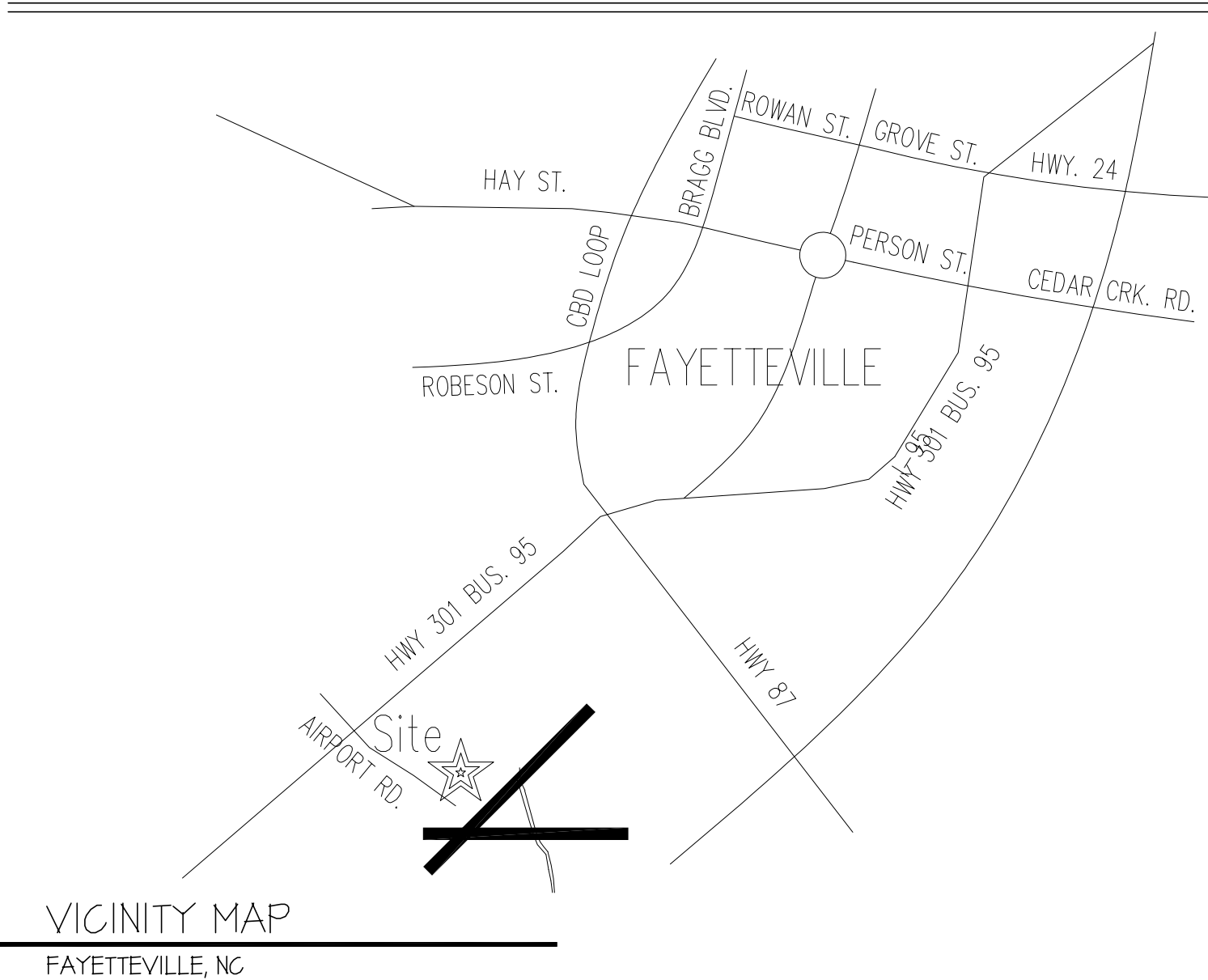
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Owned By: ☐ Private ☒ City/County ☐ State
Enforcement Jurisdiction: ☒ City ☐ County ☐ City/County
Name of Jurisdiction: City of Fayetteville

PROJECT SUMMARY: Relocate TSA checkpoint, replace existing canopy, construct new entrance w/ relocated escalators, new elevator, relocated restrooms, new outbound baggage area w/ new canopy
Building Description: Existing building is primarily a concrete frame w/ built up roofing. New structures to be steel framed w/ low sloped metal deck, 4 single ply 4 metal roofs.
Scope of Work: Sprinkle main terminal and concourse B; construct new entrance addition, update restrooms, replace existing drop-off canopy and relocate drop-off road.
Code Compliance Summary: 2018 NC SBC

Alternate Means of Compliance Request: n/a

Building Code: ☒ 2018 North Carolina State Building Code (NCSBC) ☐ Chapter 34
☐ 2009 NC Rehab ☐ 2015 Existing Building Code
☐ Code Used for Reconstruction

New Building: ☐ New Building ☐ Shell Building ☐ First Time Interior Upfit
☐ Addition ☐ Alteration to Shell

Existing Building: ☒ Renovation ☐ Interior Completion ☐ Tenant Alteration
☐ Reconstruction ☐ Repair ☐ Alteration to Shell
☐ Change of Use Tenant Space ☐ Change of Occupancy

Note: Zoning Review is Required for Change of Use or Occupancy

Original Occupancy: Mixed - A2, A3, B, M, S
Proposed Occupancy: Mixed - A2, A3, B, M, S

OCCUPANCY INFORMATION

Primary Occupancies:
Assembly: ☐ A-1 ☐ A-2 ☒ A-3 ☐ A-4 ☐ A-5
Business: ☒
Educational: ☐
Factory-Industrial: ☐ F-1 ☐ F-2 ☐ H-3 ☐ H-4 ☐ H-5
High-Hazard: ☐ H-1 ☐ H-2 ☐ H-3 ☐ H-4 ☐ H-5
Institutional: ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 ☐ I-5
I-5 USE CONDITION: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Mercantile:
Party / Fire Hall Separation: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Residential: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage: ☐ S-1 ☐ S-2 ☐ S-3 ☐ S-4

5-1 SPECIAL CONDITION: ☐ Repair Garage (406.7) ☐ Open (406.5) ☐ Enclosed (406.6)
5-1 SPECIAL CONDITION - Parking Garage: ☐ Open (406.5) ☐ Enclosed (406.6)
Utility and Miscellaneous: ☐

Other Uses:
508.2 Accessory Uses (Indicate Percentages): A-2, M, S-1
(509) Incidental Uses:
Special Occupancies: ☒ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408
☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415
☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422
☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427 ☐ 428 ☐ 429
☐ 430

Mixed Occupancy: ☐ No ☒ Yes Separation: 1 HR. at Tenant Spaces

Exception: 402, 421 & 402, 422
☐ Non-Separated Mixed Occupancy (508.3)
☐ Separated Mixed Occupancy (508.4)

Actual Area of Occupancy A:
Allowable Area of Occupancy B:
Allowable Area of Occupancy C:
Allowable Area of Occupancy D:
Allowable Area of Occupancy E:
Allowable Area of Occupancy F:
Allowable Area of Occupancy G:
Allowable Area of Occupancy H:
Allowable Area of Occupancy I:
Allowable Area of Occupancy J:
Allowable Area of Occupancy K:
Allowable Area of Occupancy L:
Allowable Area of Occupancy M:
Allowable Area of Occupancy N:
Allowable Area of Occupancy O:
Allowable Area of Occupancy P:
Allowable Area of Occupancy Q:
Allowable Area of Occupancy R:
Allowable Area of Occupancy S:
Allowable Area of Occupancy T:
Allowable Area of Occupancy U:
Allowable Area of Occupancy V:
Allowable Area of Occupancy W:
Allowable Area of Occupancy X:
Allowable Area of Occupancy Y:
Allowable Area of Occupancy Z:
Allowable Area of Occupancy AA:
Allowable Area of Occupancy AB:
Allowable Area of Occupancy AC:
Allowable Area of Occupancy AD:
Allowable Area of Occupancy AE:
Allowable Area of Occupancy AF:
Allowable Area of Occupancy AG:
Allowable Area of Occupancy AH:
Allowable Area of Occupancy AI:
Allowable Area of Occupancy AJ:
Allowable Area of Occupancy AK:
Allowable Area of Occupancy AL:
Allowable Area of Occupancy AM:
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Allowable Area of Occupancy AO:
Allowable Area of Occupancy AP:
Allowable Area of Occupancy AQ:
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Allowable Area of Occupancy ZS:
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Allowable Area of Occupancy ZV:
Allowable Area of Occupancy ZW:
Allowable Area of Occupancy ZX:
Allowable Area of Occupancy ZY:
Allowable Area of Occupancy ZZ

ALLOWABLE AREA AND HEIGHT CALCULATIONS

THIS SECTION FOR NEW ADDITION CHANGE OF USE AND INTERIOR COMPLETION

EXTERIOR ACTUAL LENGTH OPEN LENGTH WIDTH OF BUILDING OR SPACE

North - - - - -

South - - - - -

East - - - - -

West - - - - -

Total - P - F - W

INCREASE FRONTAGE - - - - - %

SPRINKLERS - - - - - %

FRONTAGE INCREASE FORMULA ALLOWABLE AREA FORMULA

I₁ = 100 (F/P - 0.25) W/30

STORY NO. OCCUPANCY (A) BLDG AREA (B) AREA FOR FRONTAGE INCREASE (C) AREA FOR SPRINKLER INCREASE (D) ALLOWABLE AREA FOR UNLIMITED INCREASE (E) RATIO OF ALLOWABLE TO ACTUAL BUILDING AREA (F) SEPARATION RATING REQUIRED

First Mixed 52,600 n/a n/a n/a Unlimited 402,4,21

Second Mixed 45,215 n/a n/a n/a Unlimited 402,4,21

- - - - -

- - - - -

- - - - -

- - - - -

1 Open space area increases from Section 506.3 are computed by:
a. Perimeter which fronts a public way or open space
b. Total Building Perimeter
c. Ratio (F/P)
d. W = Minimum width of building
e. Percent of increase increase, I = 100 (F/P - 0.25) X W/30 = (F) (F)

ALLOWABLE HEIGHT

Most Restrictive Use (Group) ALLOWABLE HEIGHT (TABLE 504.3) INCREASE FOR SPRINKLERS SHOWN ON PLANS CODE REFERENCE

Type of Construction Type: IIB Table: IIB Table: 601

Building Height in Ft. H = 55 Ft. H = 20' = 35 Ft. H = 34 Ft. Table: 504.3

Building Height in Stories S = 2 S = 1 + 3 S = 2 Table: 504.4

BUILDING DATA

THIS SECTION REQUIRED FOR ALL PROJECTS

Construction Type: ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B

Mixed Construction: ☐ No ☐ Yes Types: _____

Sprinklers: ☐ No ☒ Yes ☒ NFPA 13 ☐ NFPA 13R ☐ Special Suppression

Standpipes: ☐ No ☒ Yes ☐ Glass ☐ II ☐ III ☐ Net ☒ Dry

Fire District: ☐ No ☒ Yes (Appendix D) ☐ Flood Hazard

Building Height: 34 Feet 2 Story

Basement: ☒ Yes ☐ Mezzanine: ☐ No ☐ Yes

Highrise: ☐ No ☒ Yes Life Safety Plan Sheet # (if provided): T55.01 & T55.02

Gross Building Area

FLOOR EXISTING (SQ. FT.) NEW (SQ. FT.) SUB-TOTAL

Basement n/a n/a n/a

Ground Floor 51,542 1,058 52,600

Mezzanine 1,646 0 0

2nd Floor 44,217 1,058 45,215

3rd Floor n/a n/a n/a

Total 97,194 2,116 99,275

Area of Project Tenant / Alt. / Renov. 76,294 Area of Construction 18,275

NOT APPLICABLE

NOT APPLICABLE

NOT APPLICABLE

FIRE PROTECTION REQUIREMENTS

THIS SECTION REQUIRED FOR ALL PROJECTS

Life Safety Plan Sheet #, if Provided: -

BUILDING ELEMENT FIRE SEPARATION (DISTANCE) (FEET) RATING REQ'D PROVIDED (N/A) / (L) / (R) DETAIL # AND SHEET # DESIGN # FOR RATED ASSEMBLY DESIGN # FOR RATED PENETRATION DESIGN # FOR RATED JOINTS

North - - - - -

East - - - - -

West - - - - -

South - - - - -

Interior Bearing Walls - - - - -

North - - - - -

East - - - - -

West - - - - -

South - - - - -

Interior Non-Bearing Walls - - - - -

Structural Frame, including columns, girders, trusses - - - - -

Floor construction including supporting beams & joists, list construction type - - - - -

Floor ceiling assembly - - - - -

Columns supporting floors - - - - -

Roof construction including supporting beams & joists** - - - - -

Roof ceiling assembly - - - - -

Columns supporting roof - - - - -

Shutt - Exit Enclosures - - - - -

Shutt - Other Enclosures - - - - -

Corridor Separation - - - - -

Occupancy Separation - - - - -

Party / Fire Hall Separation - - - - -

Incidental Use Separation - - - - -

Shutt / Storage Unit Separation - - - - -

Smoke Barrier Separation - - - - -

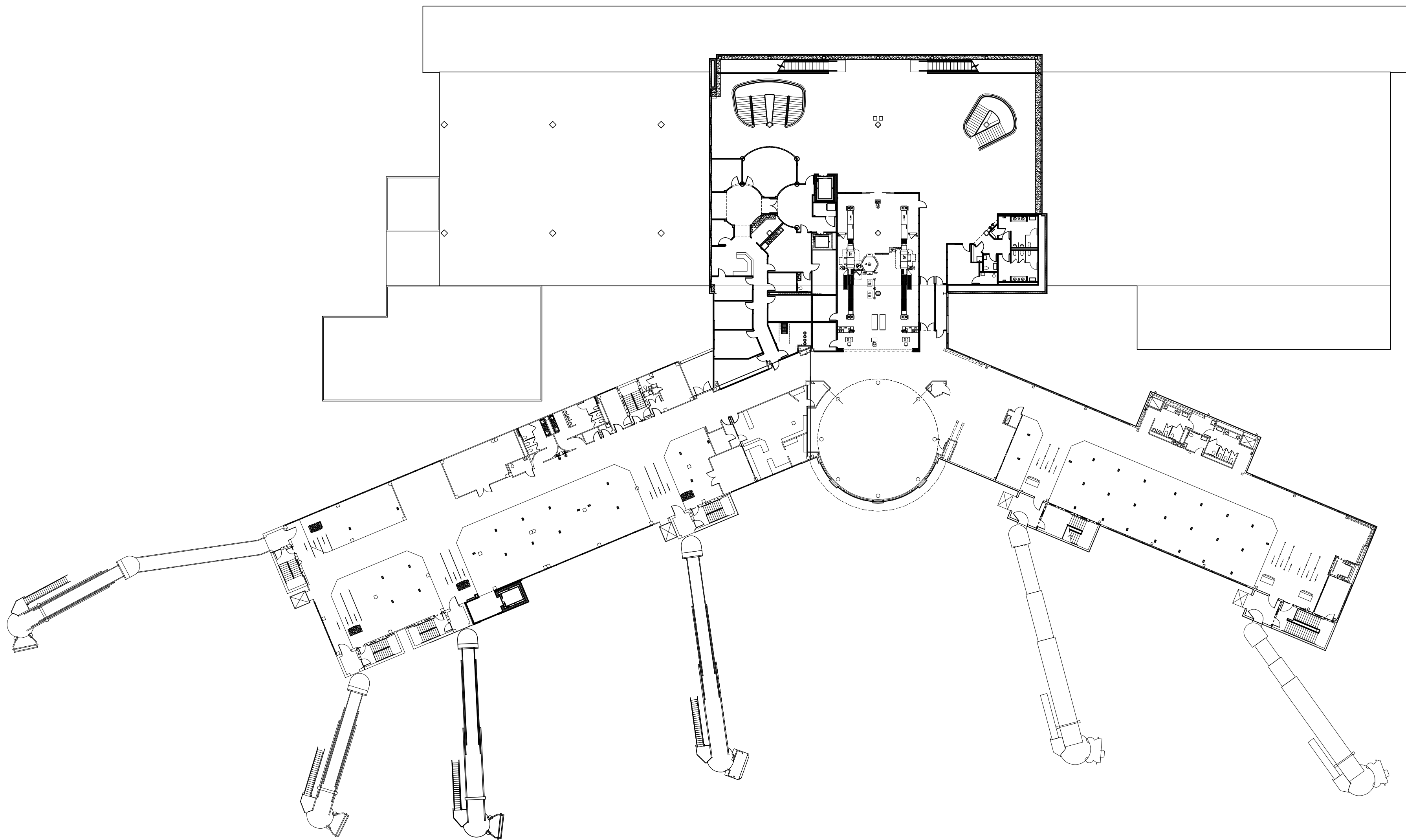
Tenant Separation - - - - -

*Indicate section number permitting reduction
**Indicated if using Table 601 Note C exception

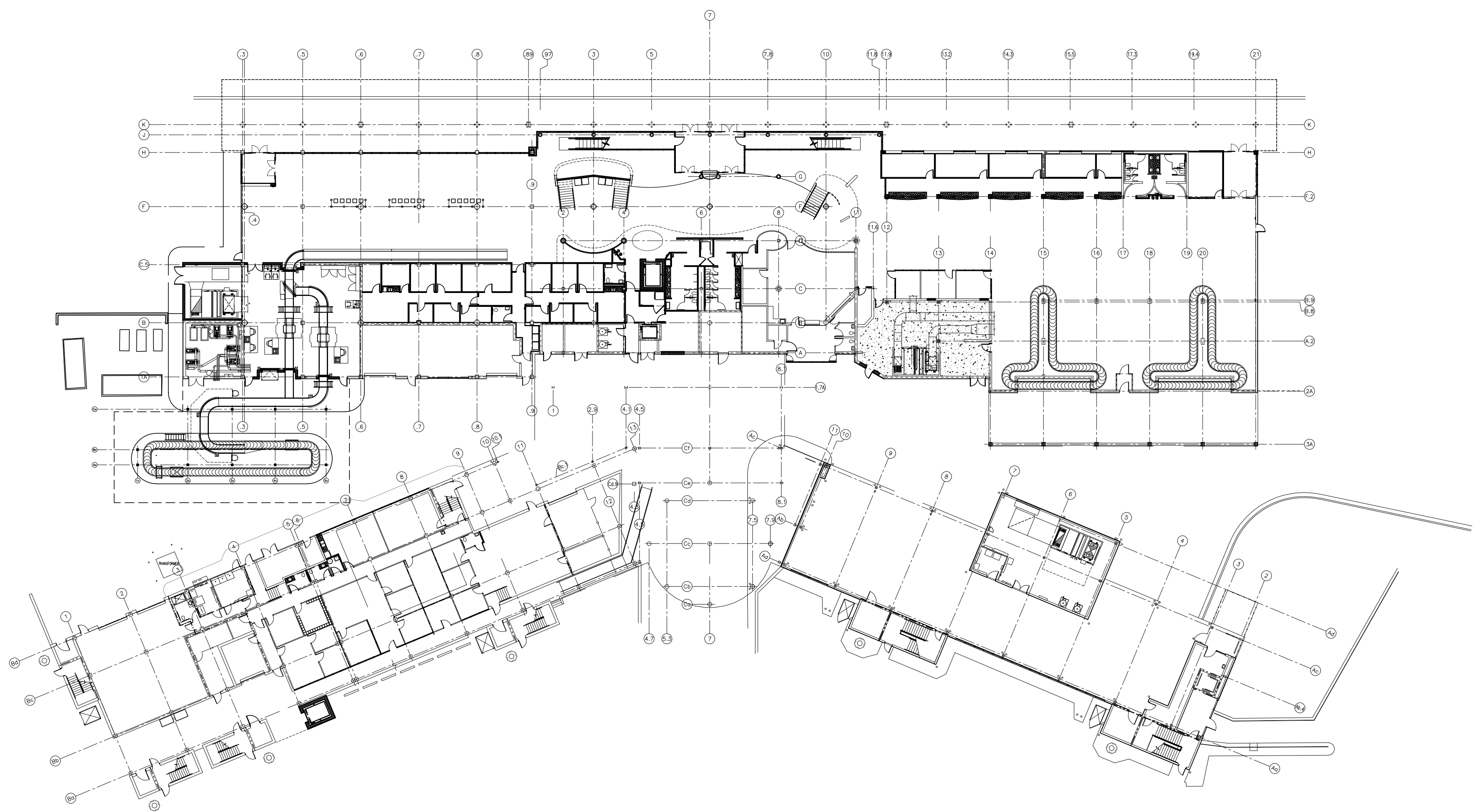
PERCENTAGE OF HALL OPENING CALCULATIONS

THIS SECTION FOR ADDITIONS, NEW AND CHANGE OF USE

BUILDING CODE PLAN DIAGRAMS



2 OCCUPANT LOAD - SECOND FLOOR
1/32" = 1'



1 OCCUPANT LOAD - GROUND FLOOR
1/32" = 1'-0"

Second Floor		
Business / Concourse - 14,997 s.f. / 100 gross =	150	
Cafe - 5,803 s.f. / 15 net =	387	
Waiting - 1,887 s.f. / 15 gross =	126	
Kitchen - 1,779 s.f. / 200 gross =	9	
Bag Hand/Mech/Storage - 1,298 s.f. / 300 g =	4	
Conc. 'B' Fixed Seating =	218 seats	
Conc. 'A' Fixed Seating =	164 seats	
Total Occupant Load =	1,058	

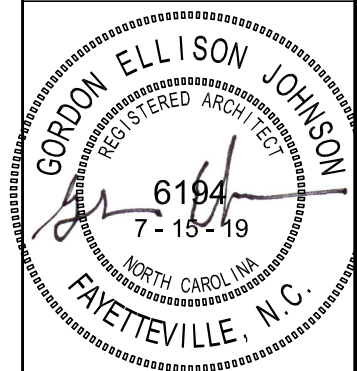
First Floor		
Business / Concourse - 22,154 s.f. / 100 gross =	222	
Mechanical / Storage - 11,035 s.f. / 300 gross =	37	
Bag Claim - 3,464 s.f. / 20 gross =	173	
Ticketing Waiting - 1,263 s.f. / 15 gross =	84	
Total Occupant Load =	516	

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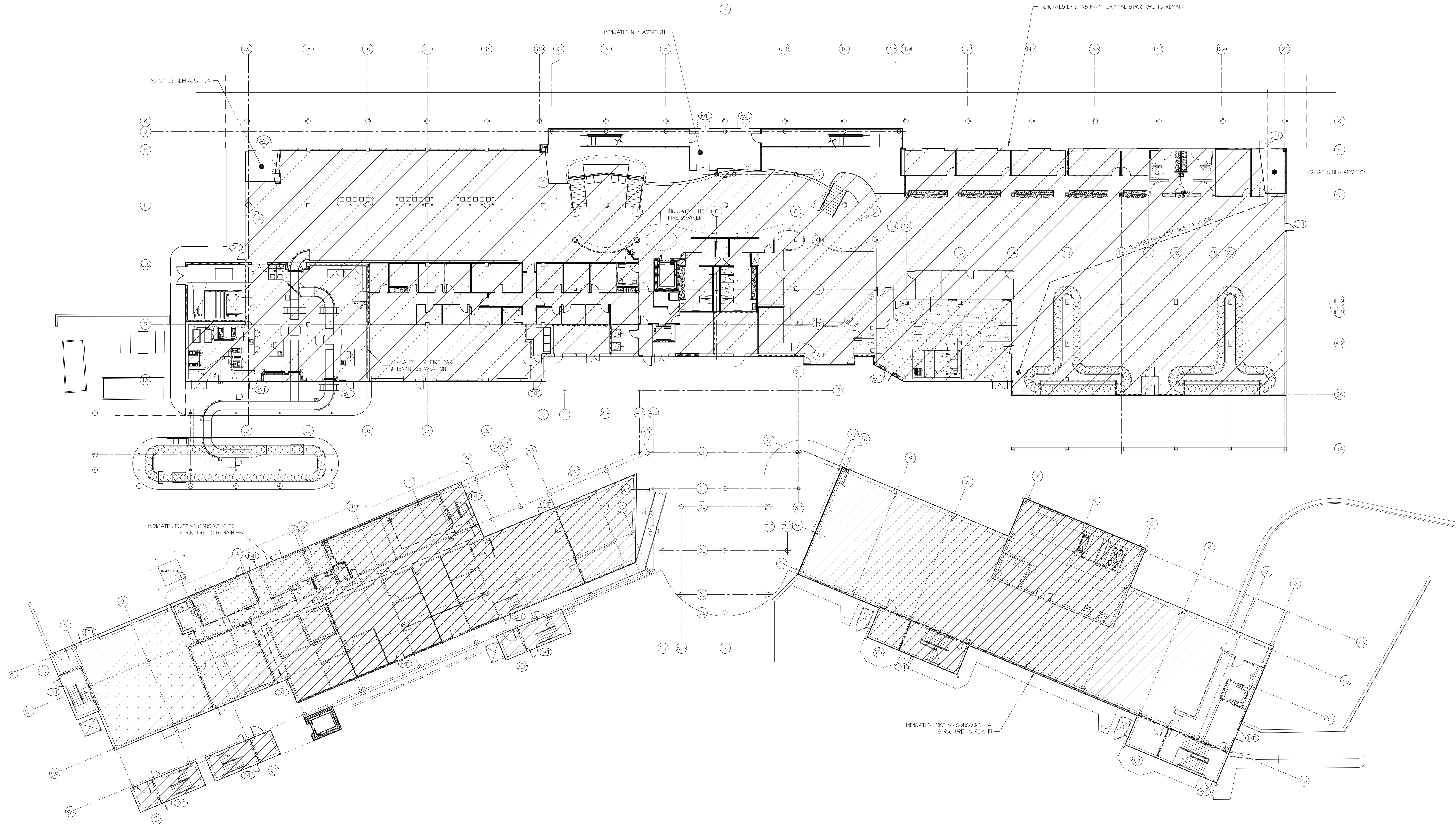


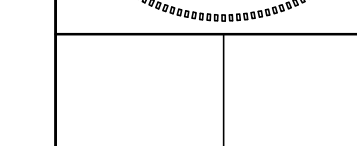
Fayetteville Regional Airport - Airline Terminal Improvements Part 2
Building Code Plan Diagrams
400 Airport Road
Fayetteville, North Carolina 28306

DRAWN BY: JDP
REVIEWED BY: GEJ
DATE: 1-15-18
PROJECT NO.: 1802

REVISIONS	
1	
2	
3	

SHEET NUMBER
TS4.01





Life Safety Plan - Second Floor

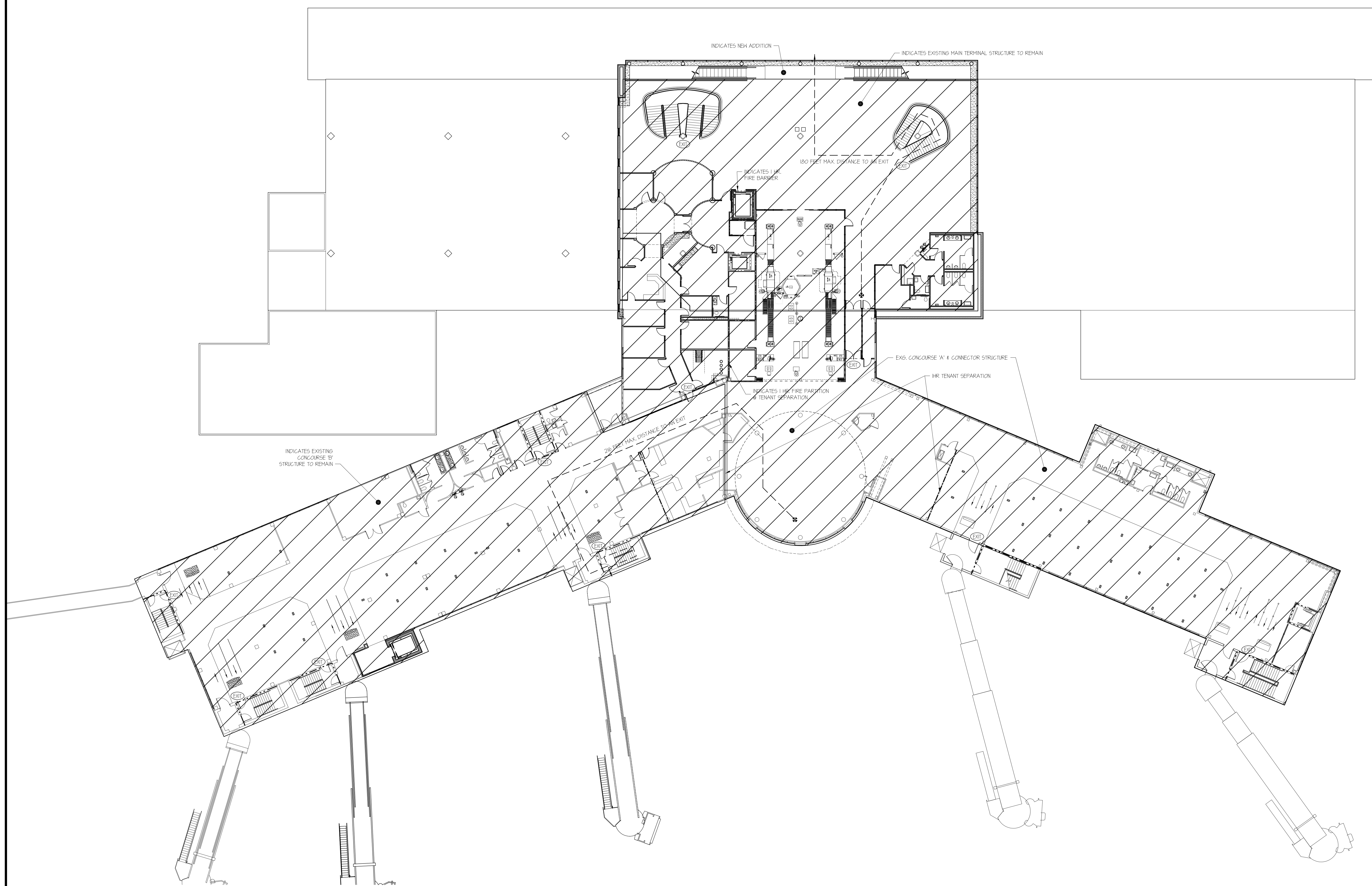
400 Airport Road
 Fayetteville, North Carolina 28306

DRAWN BY: JDP
REVIEWED BY: GEJ
DATE: 7-15-19
PROJECT NO.: 1808

REVISIONS

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△	
△	
SHEET NUMBER	

TS5.02



1 LIFE SAFETY PLAN - SECOND FLOOR
1/16" = 1'-0"

1

CONSTRUCTION PHASING PLAN GENERAL

Construction of the Airline Terminal Improvement Project Part 2 must be accomplished in the phases shown to allow the Fayetteville Regional Airport and it's tenants to conduct business on their normal schedule without interruption for the full duration of the project. Any disruption of utility service must occur only during non-business hours. A listing of phases for each area and floor levels are shown below and illustrated to the right of these two drawing sheets T56.01 & T56.02. The "Schematic Critical Path of Phasing" diagram shown below outlines those specific phase areas that may drive the overall project schedule and use of allocated contract time. Due to phasing some trades may require multiple mobilizations. Contractor to coordinate phasing shown with all other trades.

0.5 PRE-RENOVATION PHASE SITE WORK

See Civil Drawings C1.01 - C1.03 for details of construction phasing related to all site work. The phasing of most site work proposed is generally related to that shown for the building renovations and additions. The most critical of these phases is to re-construct the new northern loop road curb and traffic lane which, when put into service, will allow portions of the south traffic / drop-off lane to be taken out of service to use as construction work zones. This task therefore is a critical phase given that demolition of the new building addition cannot start until this phase is complete. The expected duration of this phase is 60 calendar days.

1 FIRST / SECOND FLOOR DEMOLITION & RENOVATION / ADDITIONS PHASE 1 WORK

Once the southern most traffic / drop-off loop road lane has been taken out of service and setup as a construction zone critical path work can start on the two-story building front and west mechanical room additions. To complete this phase of work the new exterior walls on the north, east, and south faces of the two-story main terminal structure must be in place with all related entry / exit doors, escalators, new lobby elevator, TSA Checkpoint, Police Station and toilet rooms put into public service. The expected duration of this phase is 365 days. The center and east sections of the new drop off curb and canopy must also be in place to complete this phase. Other areas shown as Phase 1 work will start and occur during this same Phase 1 period, but are expected to finish early allowing tenants to move out of Phase 2 areas, into the newly renovated Phase 1 areas.

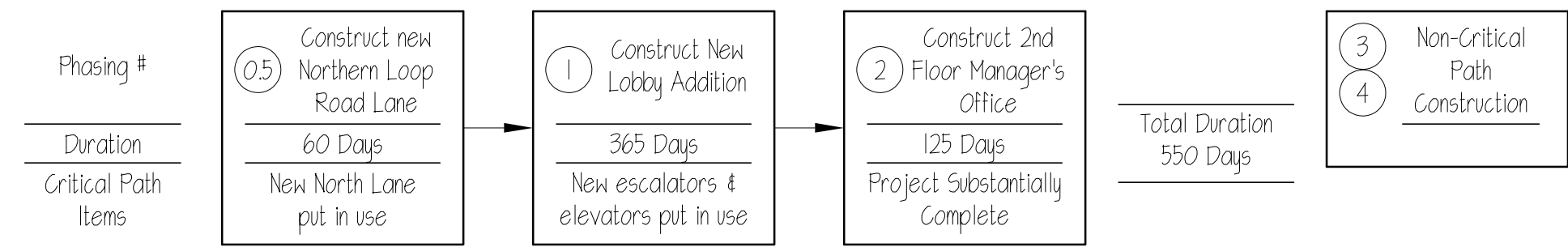
2 FIRST / SECOND FLOOR DEMOLITION & RENOVATION / ADDITIONS PHASE 2 WORK

Once the critical path Phase 1 areas are complete and put back into public service, critical path Phase 2 work can begin. That work includes reconstruction of the west second story exterior main terminal wall and renovation of the manager's office area & existing elevator. The expected duration of this phase is 125 calendar days. Other areas shown as Phase 2 work will start and occur during this same Phase 2 period, but are expected to finish early allowing tenants to move out of Phase 3 areas, into the newly renovated Phase 2 areas.

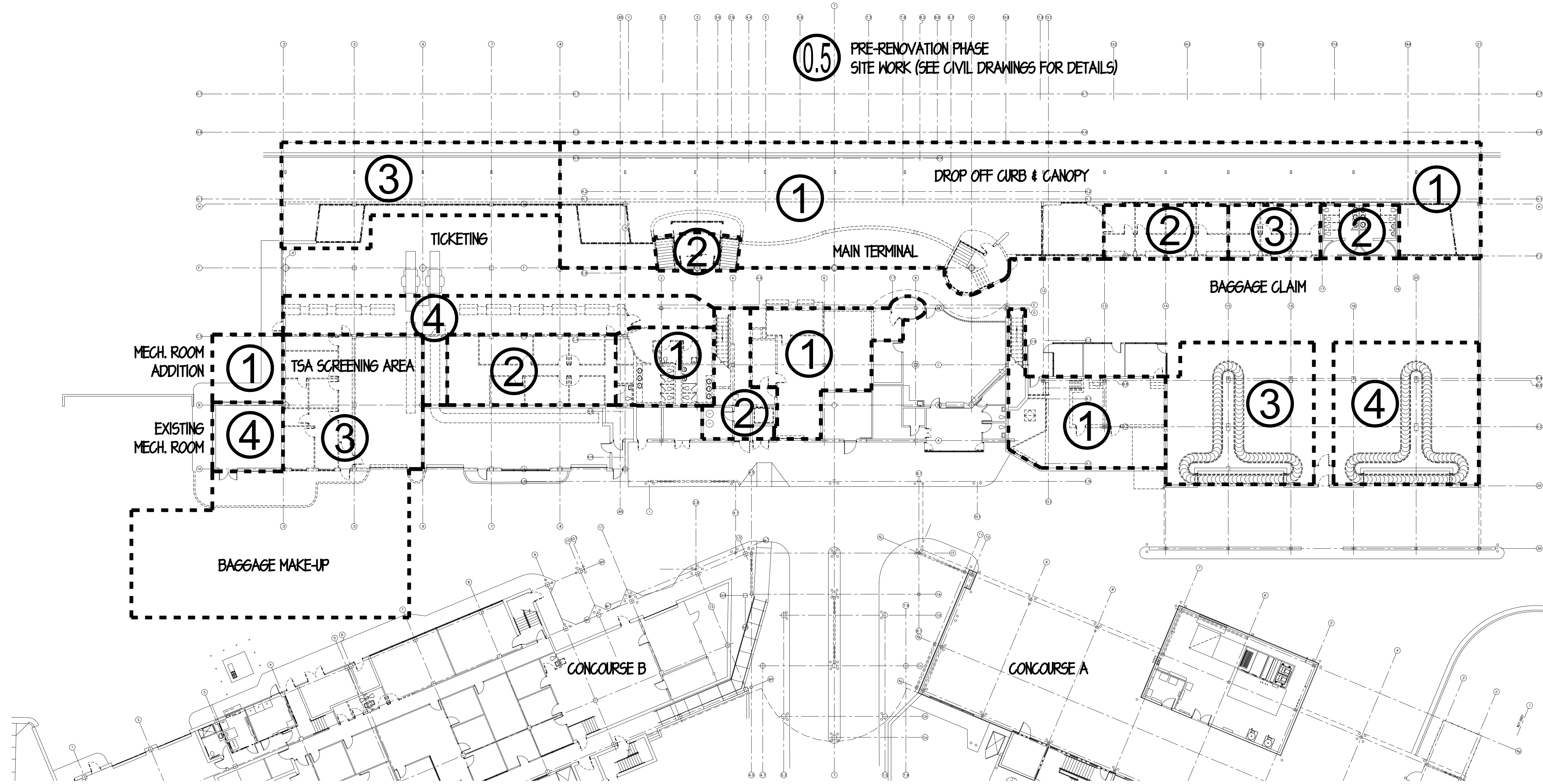
3 FIRST FLOOR DEMOLITION & RENOVATION PHASE 3 & 4 WORK

Phase 3 & 4 work is expected to occur during Critical Path Phases 1 & 2 work, but should be coordinated with other work in the area. That work includes rental office, ticketing entrance, TSA screening area, and existing mechanical room renovations, along with the inbound and outbound baggage belts replacement. Phasing to occur in each area (Ticketing, Baggage Claim, etc.) as shown in the numbered sequence indicated unless otherwise approved by the Architect.

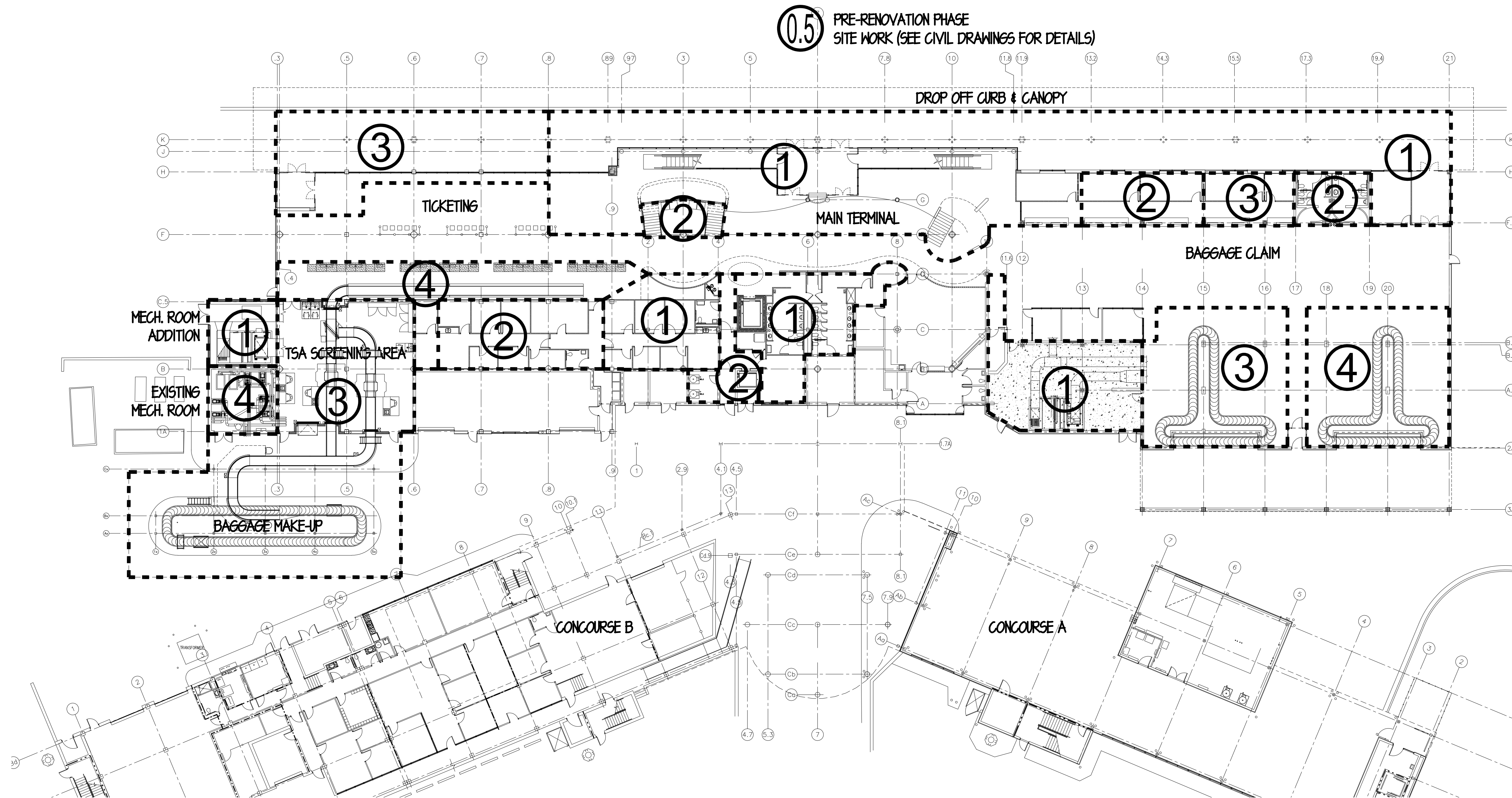
3 SCHEMATIC CRITICAL PATH OF PHASING
N/A

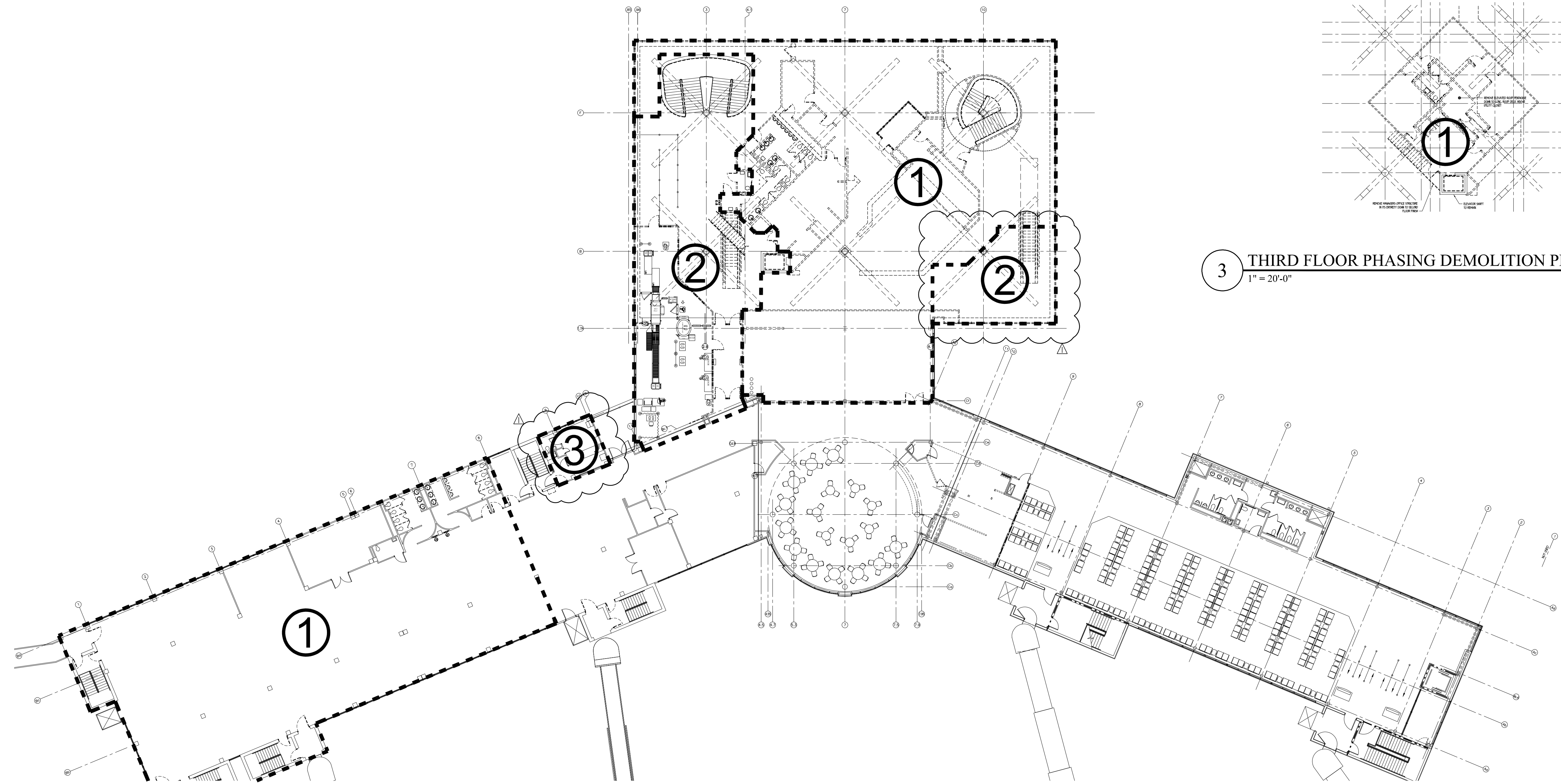


2 FIRST FLOOR PHASING DEMOLITION PLAN
1" = 20'-0"

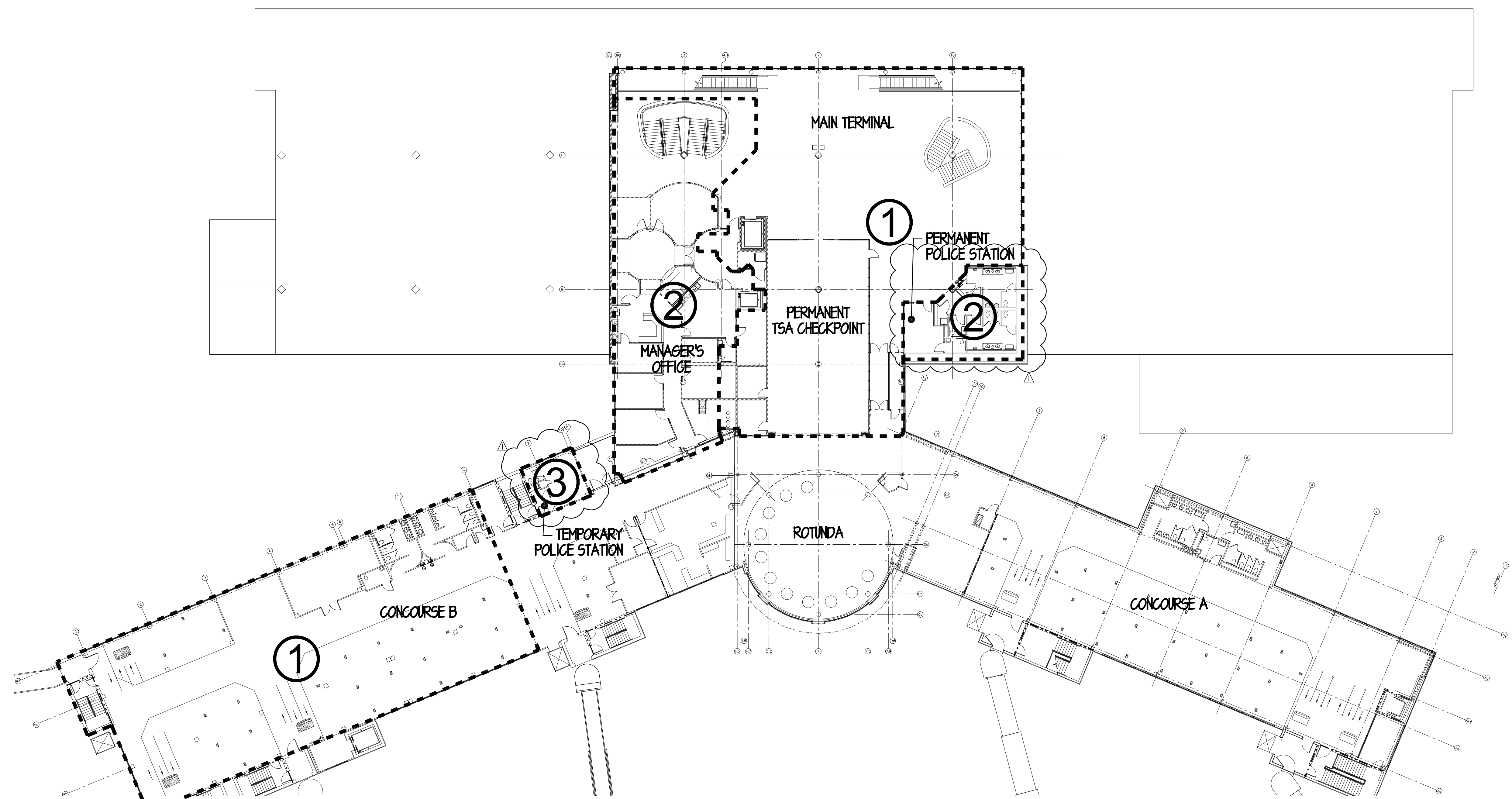


1 FIRST FLOOR PHASING RENOVATION PLAN
1" = 20'-0"





3 THIRD FLOOR PHASING DEMOLITION PLAN
1" = 20'-0"



1 SECOND FLOOR PHASING RENOVATION PLAN
1" = 20'-0"

