WILMINGTON INTERNATIONAL AIRPORT (ILM)

ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

1740 AIRPORT BLVD.
WILMINGTON, NC 28405

100% BID SET

VOL. II - TERMINAL EXPANSION, ALTERATIONS, AND CONNECTOR - ALTERNATE 4

03/14/2025

AEC PROJECT NUMBER
1003-0070-004

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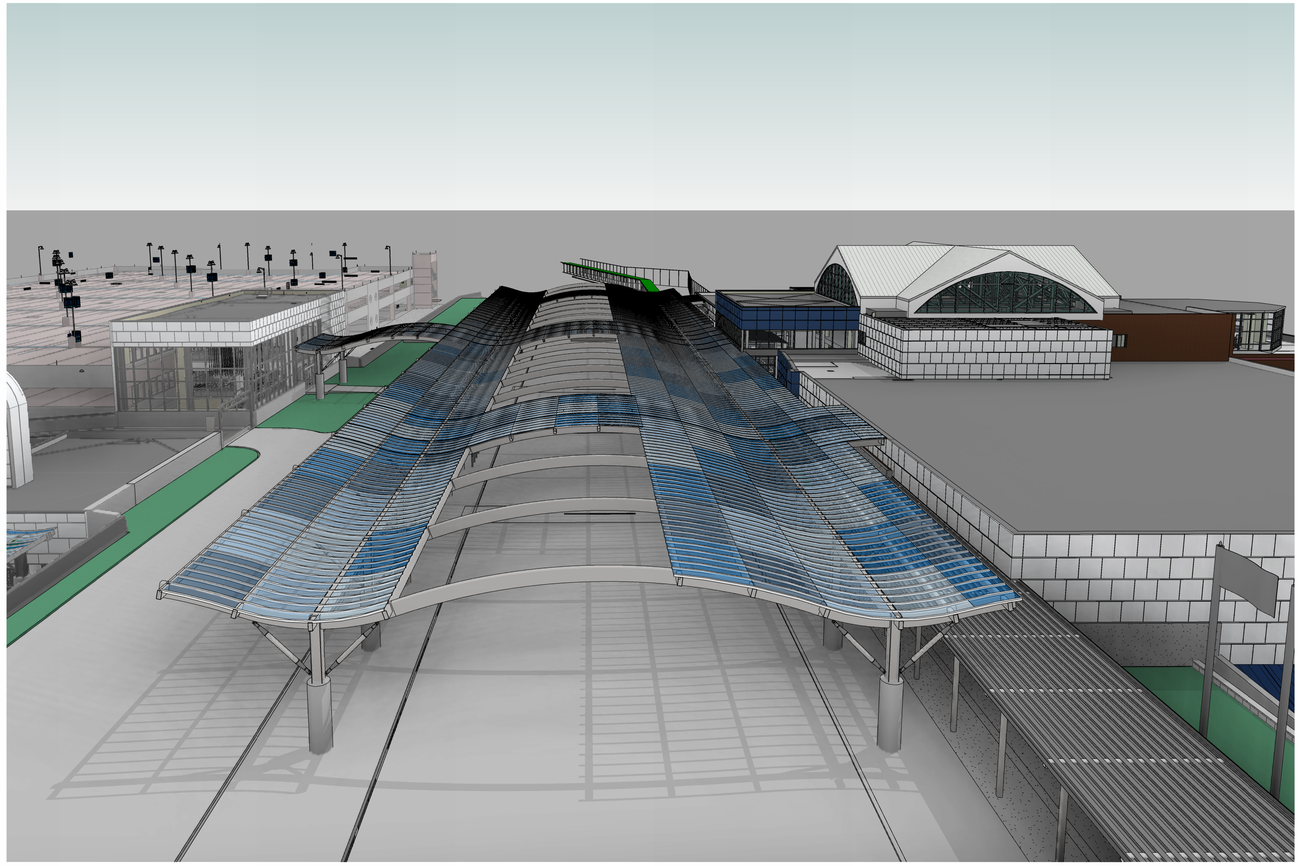

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WAYFINDING
APPLE DESIGNS
3739 NATIONAL DRIVE
SUITE 228
RALEIGH,NC 27612

REVISIONS

NO.	DESCRIPTION	DATE

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BUILDING ID: BLDG. ID

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	SG
DRAWN BY:	Author
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:
SHEET INDEX

SHEET ID:
G002-4

PROJECT STATUS:
100% BID SET

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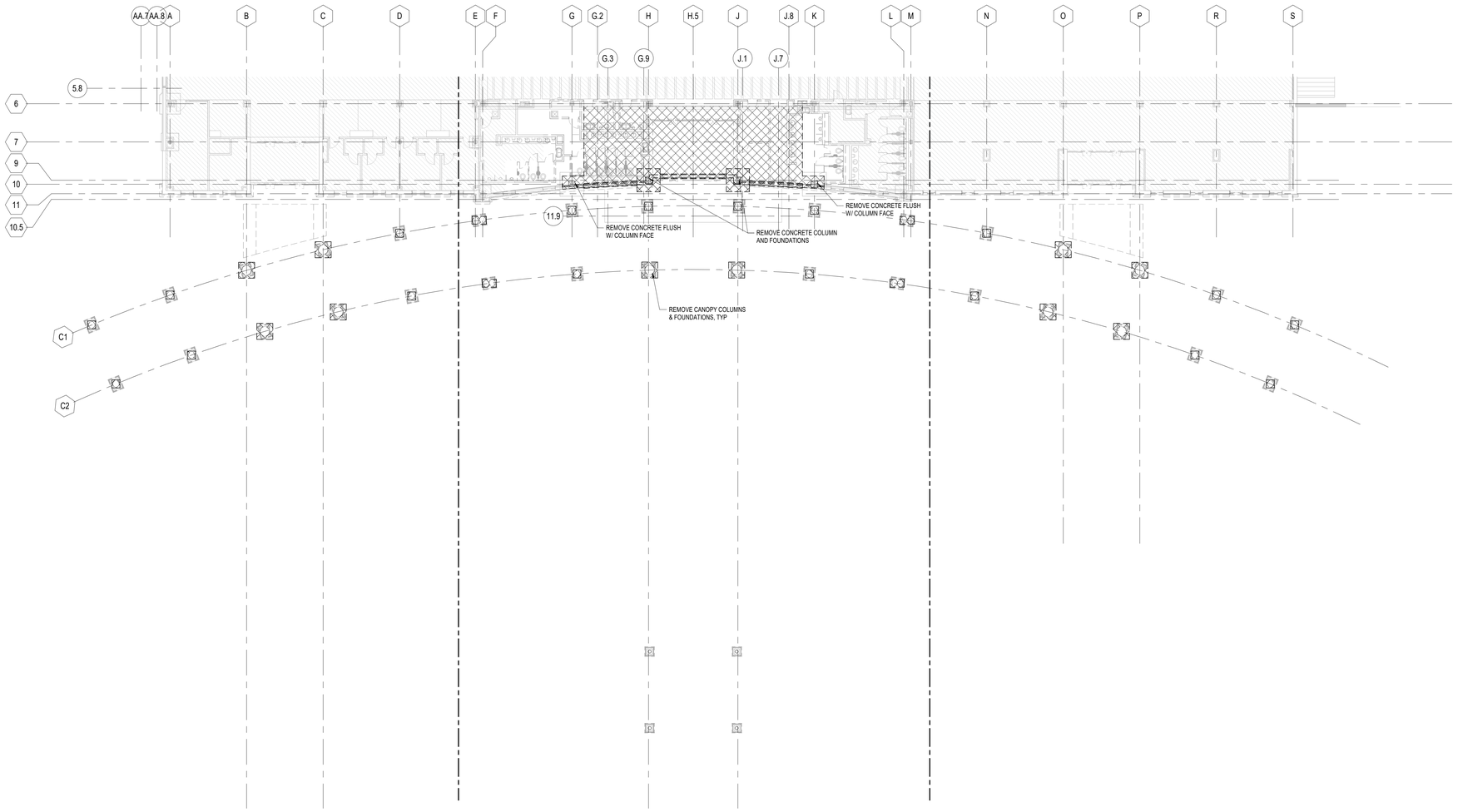

PN

1 OVERALL TICKET LEVEL FOUNDATION DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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PROJECT ADDRESS:
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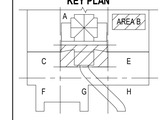
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

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REVIEWED BY: RLM
DRAWN BY: JFS
DESIGNED BY: JFS
PROJECT NUMBER:
2003-0070-006

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SHEET TITLE:
OVERALL TICKET LEVEL FOUNDATION DEMOLITION PLAN

SHEET ID:
SD102-4

PROJECT STATUS:
100% BID SET

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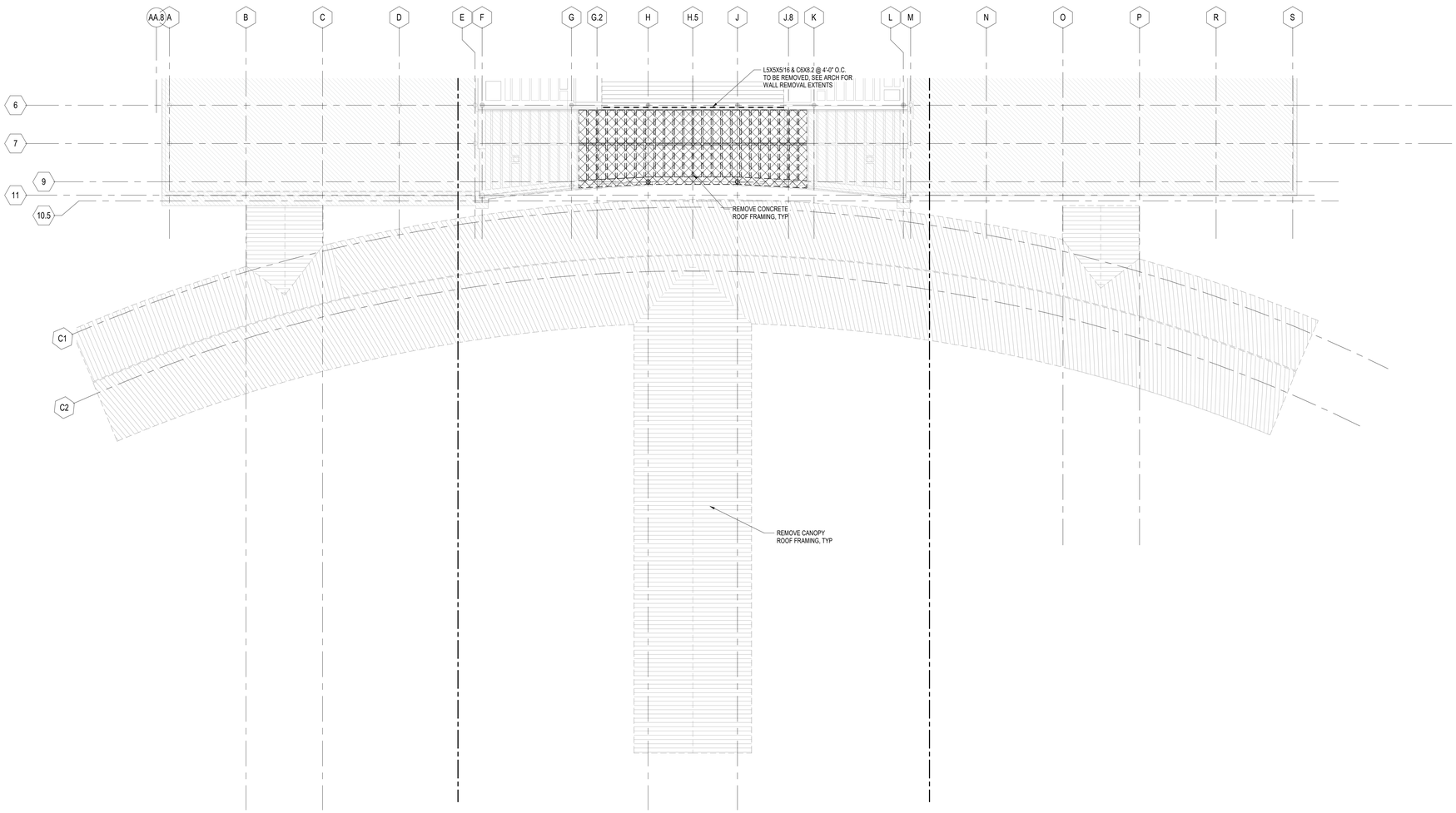

PN
N

1 OVERALL LOW ROOF FRAMING DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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PROJECT ADDRESS:
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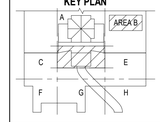
KEY PLAN



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DESIGNED BY: JFS
PROJECT NUMBER:
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SHEET TITLE:
OVERALL LOW ROOF FRAMING DEMOLITION PLAN

SHEET ID:
SD103-4

PROJECT STATUS:
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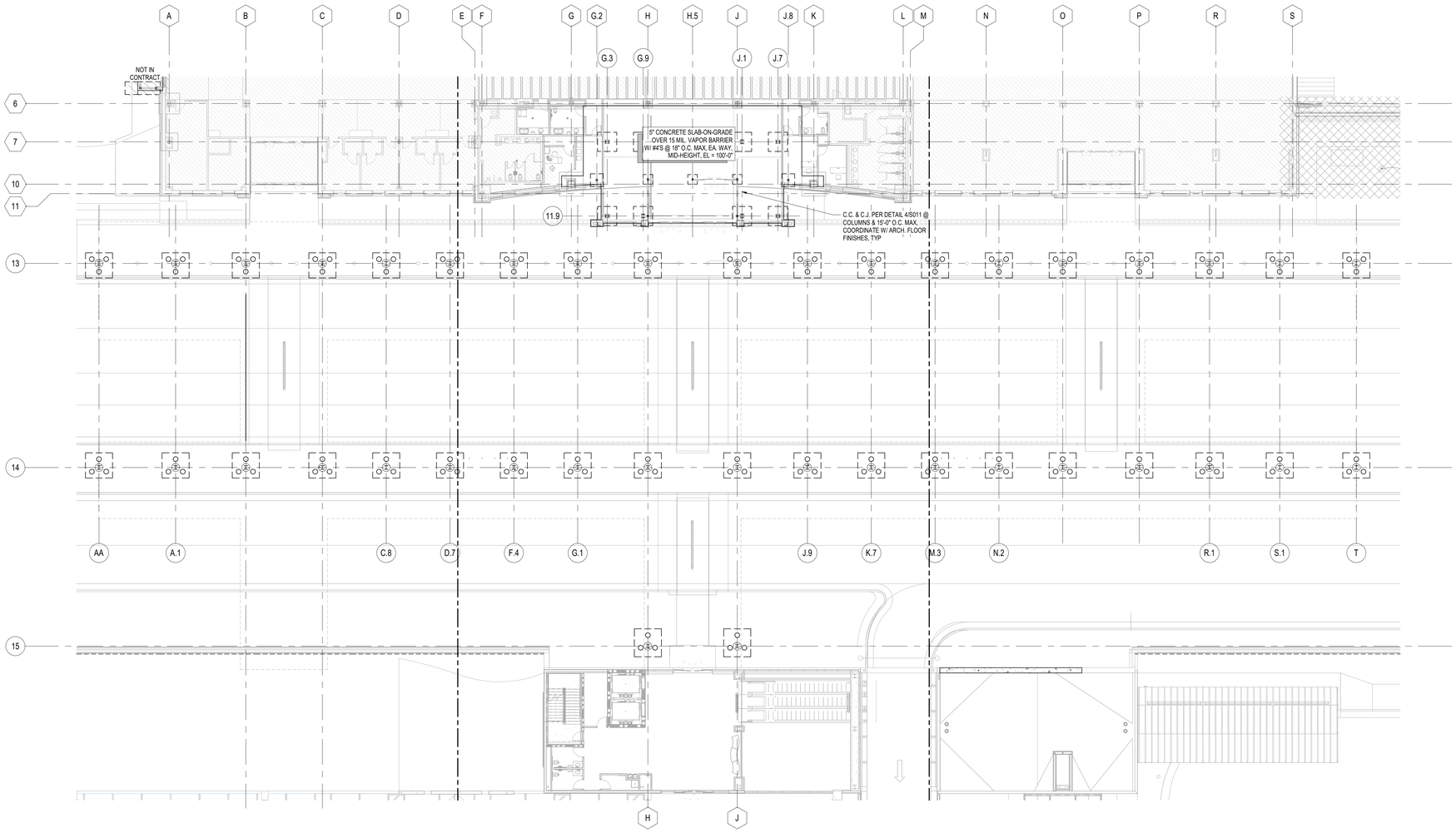

PN

N

1 OVERALL TICKET LEVEL FOUNDATION & FRAMING PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

PLAN LEGEND & SHEET NOTES

OVERALL PLAN LEGEND

DESCRIPTION	SYMBOL
1. EXISTING GRIDS	COL
2. NEW GRIDS	COL
3. FLOOR CONCRETE OVER METAL DECK A. METAL DECK SPAN DIRECTION B. FLOOR TYPE _____ F-#	F-#
4. REFERENCE BASE BID	

OVERALL PLAN NOTES

1. FIELD VERIFY EXISTING GRIDS THAT INFLUENCE NEW WORK PRIOR TO SUBMITTING SHOP DRAWINGS
2. REFERENCE ELEVATION 100'-0" EQUALS 43.68' (NAVD 88), F.V., SEE CIVIL
3. COLUMN CONCRETE WRAPS FOR CANOPY COLUMNS SHALL BE TYPE-1, SEE DETAIL 7/S012

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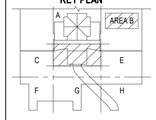
KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
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DRAWN BY: JFS
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SHEET TITLE:
OVERALL TICKET LEVEL FRAMING & FOUNDATION PLAN

SHEET ID:
S106-4

PROJECT STATUS:
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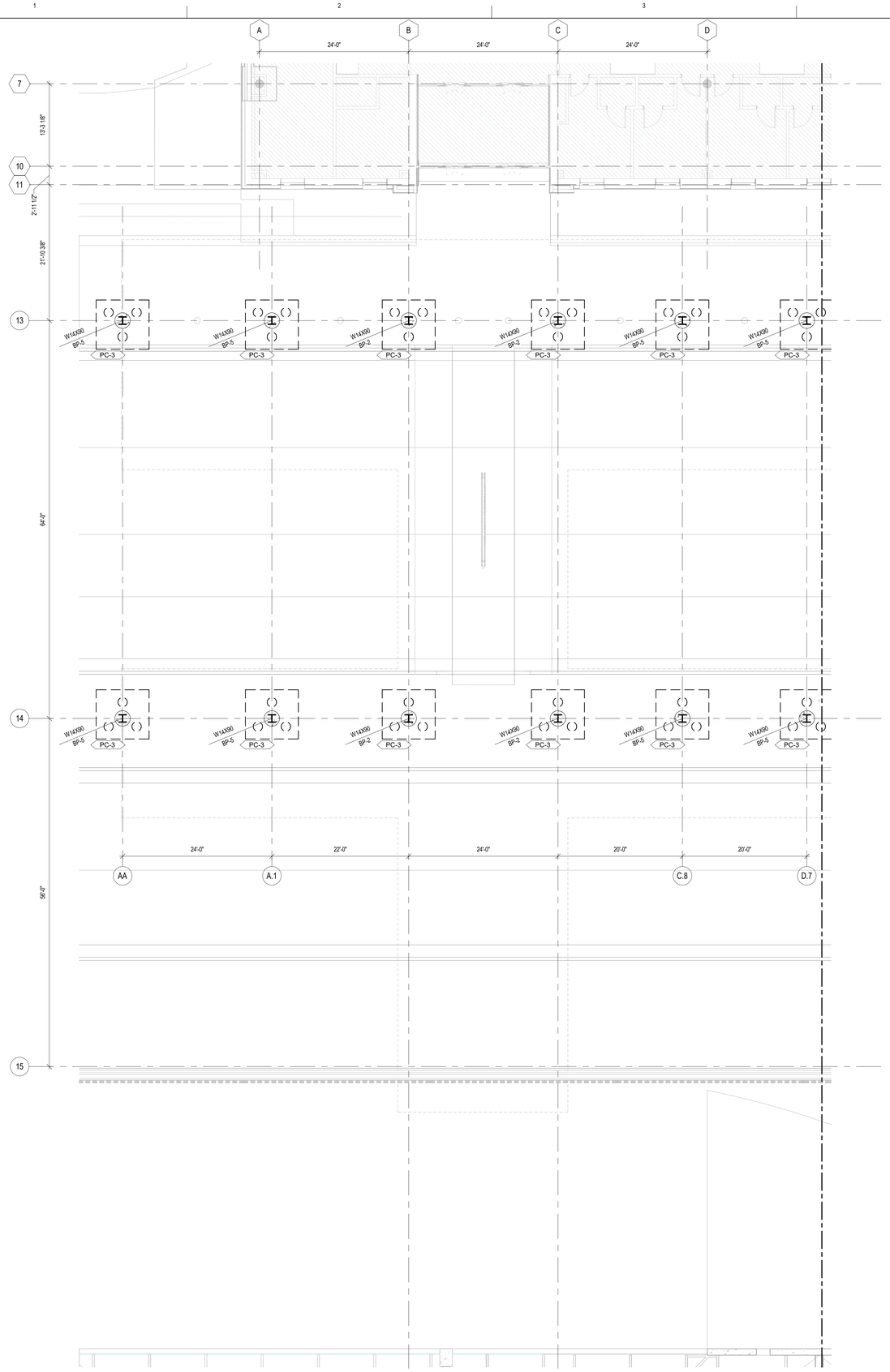

1 PARTIAL TICKET LEVEL - FOUNDATION PLAN - AREA A

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE OVERALL PLAN	
2. STEEL COLUMN: A. COLUMN SIZE _____ W##X##, SEE PLAN B. BASE PLATE _____ BP-#, SEE SCHEDULE	W##X## BP-#
3. PILE CAP _____ PC-#	PC-#
4. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022	
5. STEEL FRAMING A. BEAM SIZE _____ W##X## B. SHEAR CONNECTORS _____ [XX] C. POSITIVE CAMBER _____ [XX] D. TOP OF STEEL _____ (###'-#")	W###X## [XX] [XX] (###'-#")
6. MOMENT CONNECTION A. W-FLANGE COLUMN _____ 4/S021 B. HSS COLUMN _____ 4/S022	
7. SHALLOW FOUNDATION _____ F-#, SEE 2/S108-4	F-#

FRAMING PLAN NOTES

1. TOP OF PILE CAP ELEVATION = 97'-0", UNO
2. TOP OF SHALLOW FOUNDATION ELEVATION = 99'-0", UNO

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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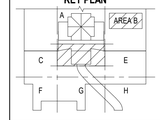
KEY PLAN



REVISIONS

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DATE ISSUED:	03/14/2025
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DRAWN BY:	JFS
DESIGNED BY:	JFS
PROJECT NUMBER:	**2003-0070-006**

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SHEET TITLE:
PARTIAL TICKET LEVEL FOUNDATION PLAN - AREA A

SHEET ID:
S107-4

PROJECT STATUS:
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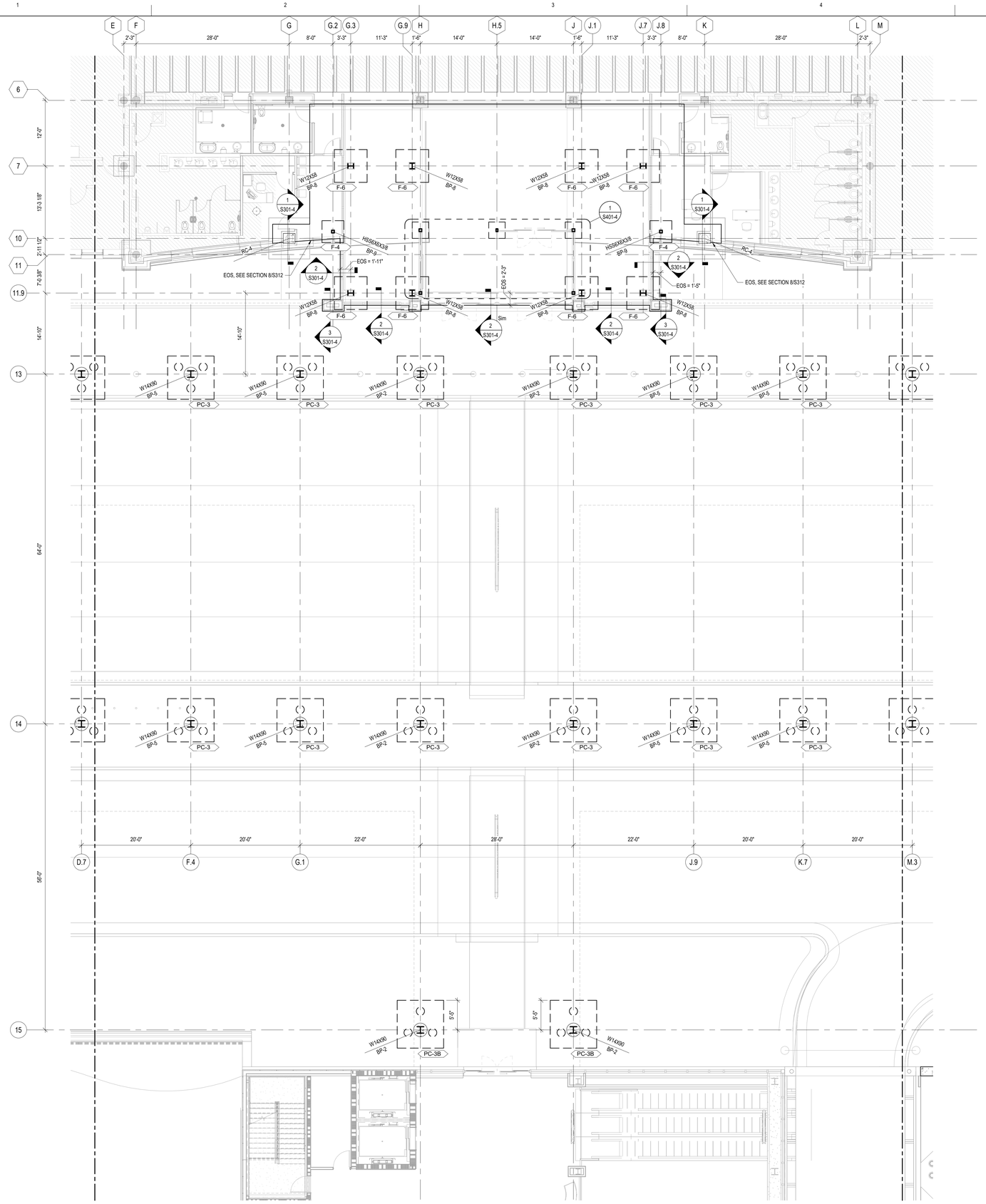

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE OVERALL PLAN	1
2. STEEL COLUMN: A. COLUMN SIZE _____ W###X##, SEE PLAN B. BASE PLATE _____ BP-#, SEE SCHEDULE	W###X## BP-#
3. PILE CAP _____ PC-#	PC-#
4. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022	
5. STEEL FRAMING A. BEAM SIZE _____ W###X## B. SHEAR CONNECTORS _____ [XX] C. POSITIVE CAMBER _____ [XX] D. TOP OF STEEL _____ (###'-#")	W###X## [XX] [XX] (###'-#")
6. MOMENT CONNECTION A. W-FLANGE COLUMN _____ 4/S021 B. HSS COLUMN _____ 4/S022	
7. SHALLOW FOUNDATION _____ F-#, SEE 2/S108-4	F-#

FRAMING PLAN NOTES

1. TOP OF PILE CAP ELEVATION = 97'-0", UNO
2. TOP OF SHALLOW FOUNDATION ELEVATION = 99'-0", UNO

SHALLOW FOUNDATION SCHEDULE

	GEOMETRY			REINFORCEMENT		REMARKS
FND MARK	WIDTH	LENGTH	THICKNESS	TOP BARS	BOTTOM BARS	
F-3	3'-0"	3'-0"	15"	(3) #4, EA. WAY	(5) #4 *, EA. WAY	-
F-4	4'-0"	4'-0"	24"	-	(7) #5, EA. WAY	-
F-6	6'-0"	6'-0"	24"	(6) #6, EA. WAY	(8) #6, EA. WAY	-

NOTES:

1. * DENOTES REINFORCEMENT BARS REQUIRE STANDARD HOOKS AT EACH END.
2. FOUNDATION SHALL BE CENTERED ON COLUMN, UNO.

2 SHALLOW FOUNDATION SCHEDULE

SCALE: 1" = 1'-0"

1 PARTIAL TICKET LEVEL - FOUNDATION & FRAMING PLAN - AREA B

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

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Hartranft Lighting Design

ILM

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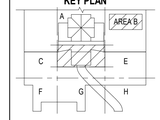
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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REVIEWED BY:	RLM
DRAWN BY:	JFS
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SHEET TITLE:
PARTIAL TICKET LEVEL FOUNDATION PLAN - AREA B

SHEET ID:
S108-4

PROJECT STATUS:
100% BID SET

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PN
N

1 PARTIAL TICKET LEVEL - FOUNDATION PLAN - AREA C

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE OVERALL PLAN	1
2. STEEL COLUMN: A. COLUMN SIZE _____ W##X###, SEE PLAN B. BASE PLATE _____ BP-#, SEE SCHEDULE	W###X### BP-#
3. PILE CAP _____ PC-#	PC-#
4. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022	
5. STEEL FRAMING A. BEAM SIZE _____ W##X## B. SHEAR CONNECTORS _____ [XX] C. POSITIVE CAMBER _____ (XX) D. TOP OF STEEL _____ (###'-#")	W###X## [XX] (XX) (###'-#")
6. MOMENT CONNECTION A. W-FLANGE COLUMN _____ 4/S021 B. HSS COLUMN _____ 4/S022	
7. SHALLOW FOUNDATION _____ F-#, SEE 2/S108-4	F-#

FRAMING PLAN NOTES

1. TOP OF PILE CAP ELEVATION = 97'-0", UNO
2. TOP OF SHALLOW FOUNDATION ELEVATION = 99'-0", UNO

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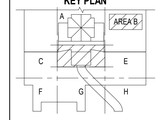
WILMINGTON, NC 28405

KEY PLAN



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NO.	DESCRIPTION	DATE

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DESIGNED BY:	JFS
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SHEET TITLE:
PARTIAL TICKET LEVEL FOUNDATION PLAN - AREA C

SHEET ID:
S109-4

PROJECT STATUS:
100% BID SET

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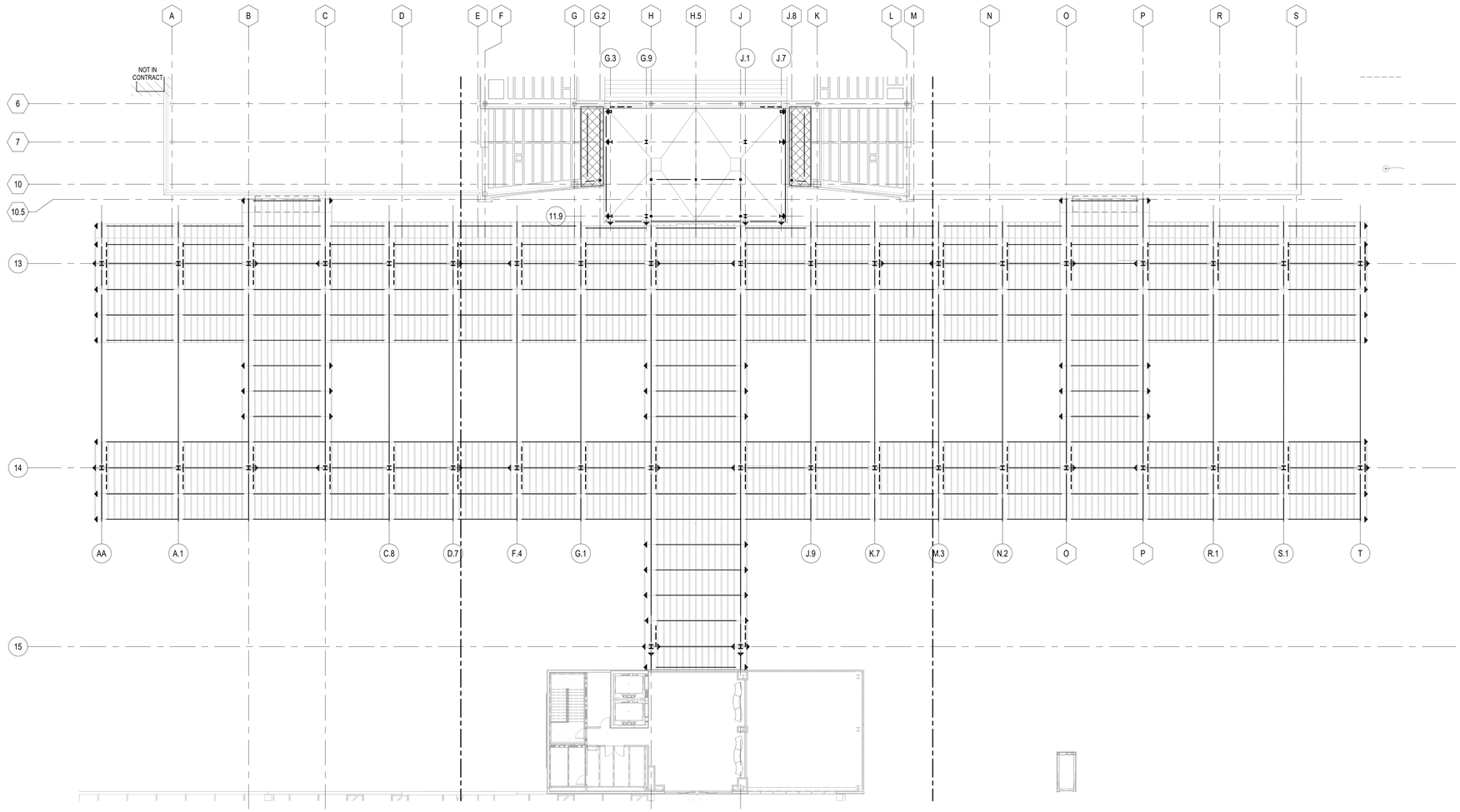

PN

1 OVERALL ADMIN & CANOPY ROOF FRAMING PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

PLAN LEGEND & SHEET NOTES

OVERALL PLAN LEGEND

DESCRIPTION	SYMBOL
1. EXISTING GRIDS	COL
2. NEW GRIDS	COL
3. FLOOR CONCRETE OVER METAL DECK A. METAL DECK SPAN DIRECTION B. FLOOR TYPE _____ F-#	F-#
4. REFERENCE BASE BID	

OVERALL PLAN NOTES

1. FIELD VERIFY EXISTING GRIDS THAT INFLUENCE NEW WORK PRIOR TO SUBMITTING SHOP DRAWINGS

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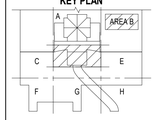
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	RLM
DRAWN BY:	JFS
DESIGNED BY:	JFS
PROJECT NUMBER:	2003-0070-006

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SHEET TITLE:

OVERALL ADMIN & CANOPY ROOF FRAMING PLAN

SHEET ID:

S111-4

PROJECT STATUS:
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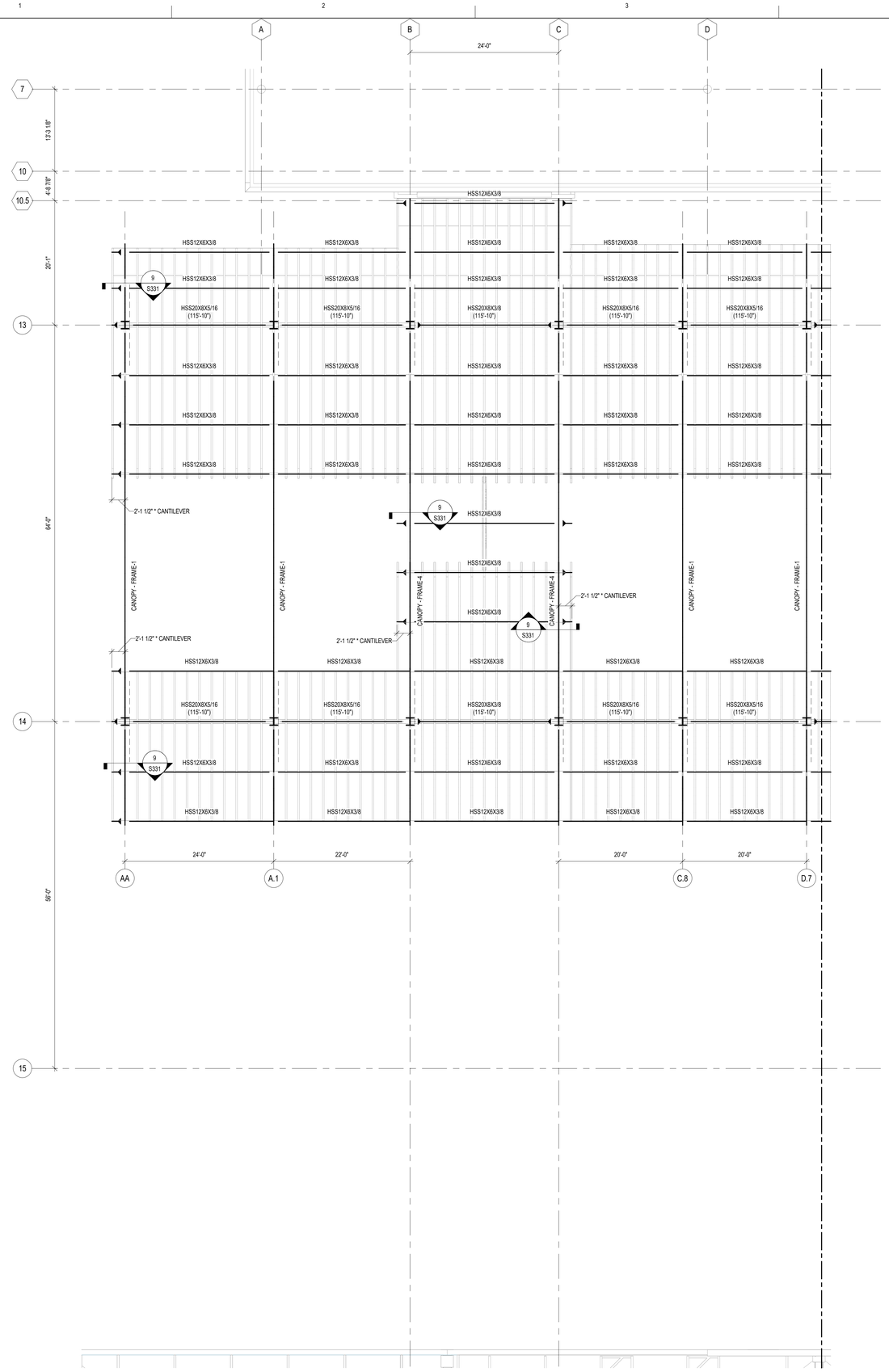

1 PARTIAL ADMIN LEVEL & CANOPY ROOF - FRAMING PLAN PLAN - AREA A

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE DETAIL	1
2. STEEL COLUMN: A. COLUMN SIZE _____ W###x##, SEE PLAN B. BASE PLATE _____ BP-#, SEE SCHEDULE	W###x## BP-#
3. CMU WALL, SEE MASONRY NOTES ON S001	
4. FLOOR OPENING	
5. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022	
6. STEEL FRAMING A. BEAM SIZE _____ W###x## B. SHEAR CONNECTORS _____ [XX] C. POSITIVE CAMBER _____ (XX) D. TOP OF STEEL _____ (###'-#")	W###x## [XX] (XX) (###'-#")
7. REFERENCE BASE BID	

FRAMING PLAN NOTES

1. CANOPY STEEL FRAMING:
   - A. FRAME-1 _____ 1/S221
   - B. FRAME-2 _____ 1/S222
   - C. FRAME-3 _____ 2/S222-4
   - D. FRAME-4 _____ 1 & 2/S223
2. * DENOTES COORDINATION REQUIRED WITH ROOF PANEL SYSTEM.

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ILM

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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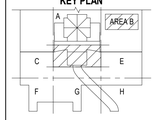
KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	RLM
DRAWN BY:	JFS
DESIGNED BY:	JFS
PROJECT NUMBER:	2003-0070-006

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PARTIAL ADMIN & CANOPY ROOF FRAMING PLAN - AREA A

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S112-4

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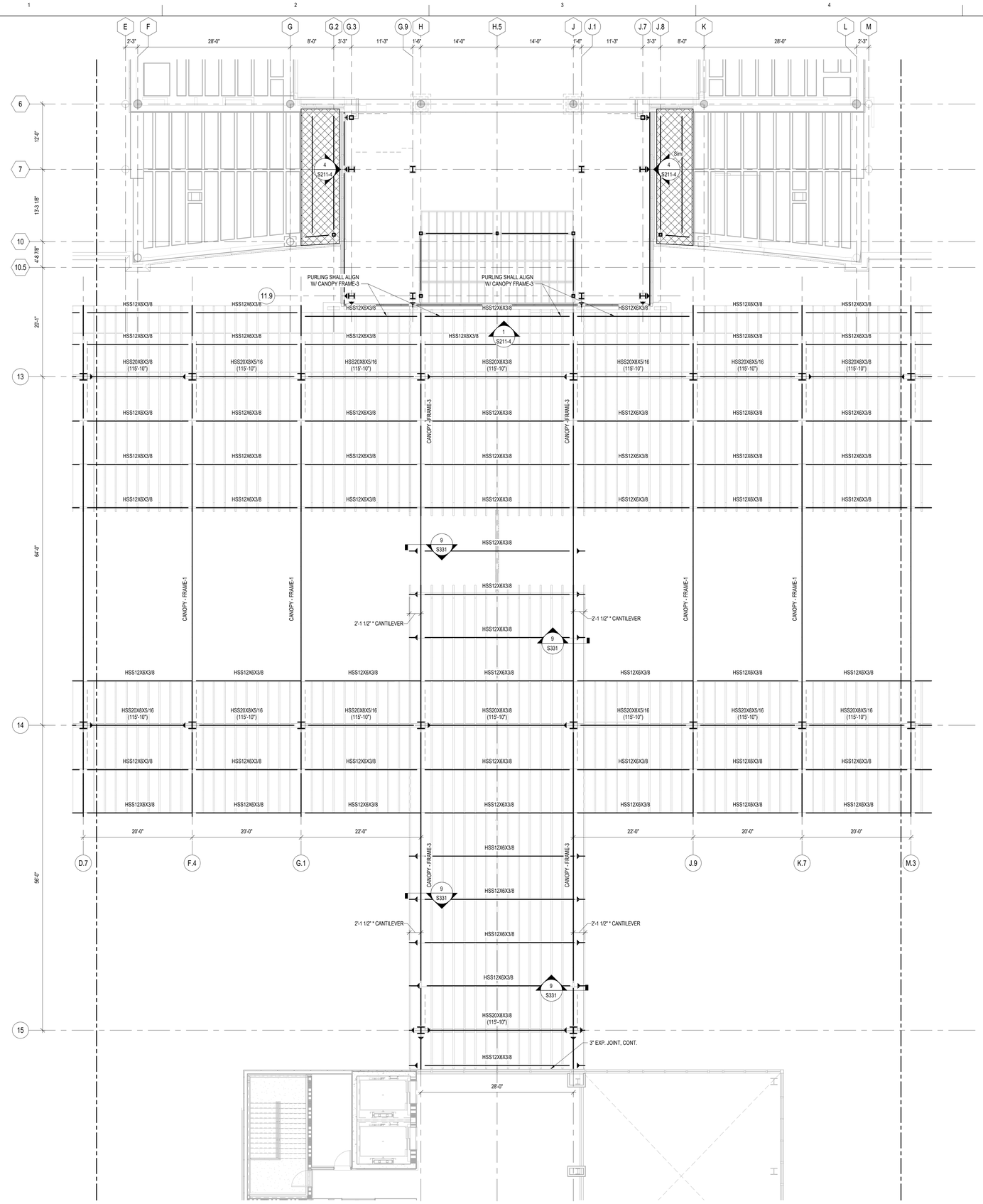

1 PARTIAL ADMIN LEVEL & CANOPY ROOF - FRAMING PLAN PLAN - AREA B

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE DETAIL	1
2. STEEL COLUMN: A. COLUMN SIZE _____ W###X##, SEE PLAN B. BASE PLATE _____ BP-#, SEE SCHEDULE	W###X## BP-#
3. CMU WALL, SEE MASONRY NOTES ON S001	
4. FLOOR OPENING	
5. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022	
6. STEEL FRAMING A. BEAM SIZE _____ W###X## B. SHEAR CONNECTORS _____ [XX] C. POSITIVE CAMBER _____ (XX) D. TOP OF STEEL _____ (###'-#")	W###X## [XX] (XX) (###'-#")
7. REFERENCE BASE BID	

FRAMING PLAN NOTES

1. CANOPY STEEL FRAMING:
   - A. FRAME-1 _____ 1/S221
   - B. FRAME-2 _____ 1/S222
   - C. FRAME-3 _____ 2/S222-4
   - D. FRAME-4 _____ 1 & 2/S223
2. * DENOTES COORDINATION REQUIRED WITH ROOF PANEL SYSTEM.

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ILM

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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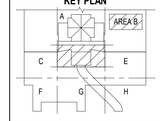
KEY PLAN



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DATE ISSUED:	03/14/2025
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DRAWN BY:	JFS
DESIGNED BY:	JFS
PROJECT NUMBER:	2003-0070-006

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PARTIAL ADMIN & CANOPY ROOF FRAMING PLAN - AREA B

SHEET ID:
S113-4

PROJECT STATUS:
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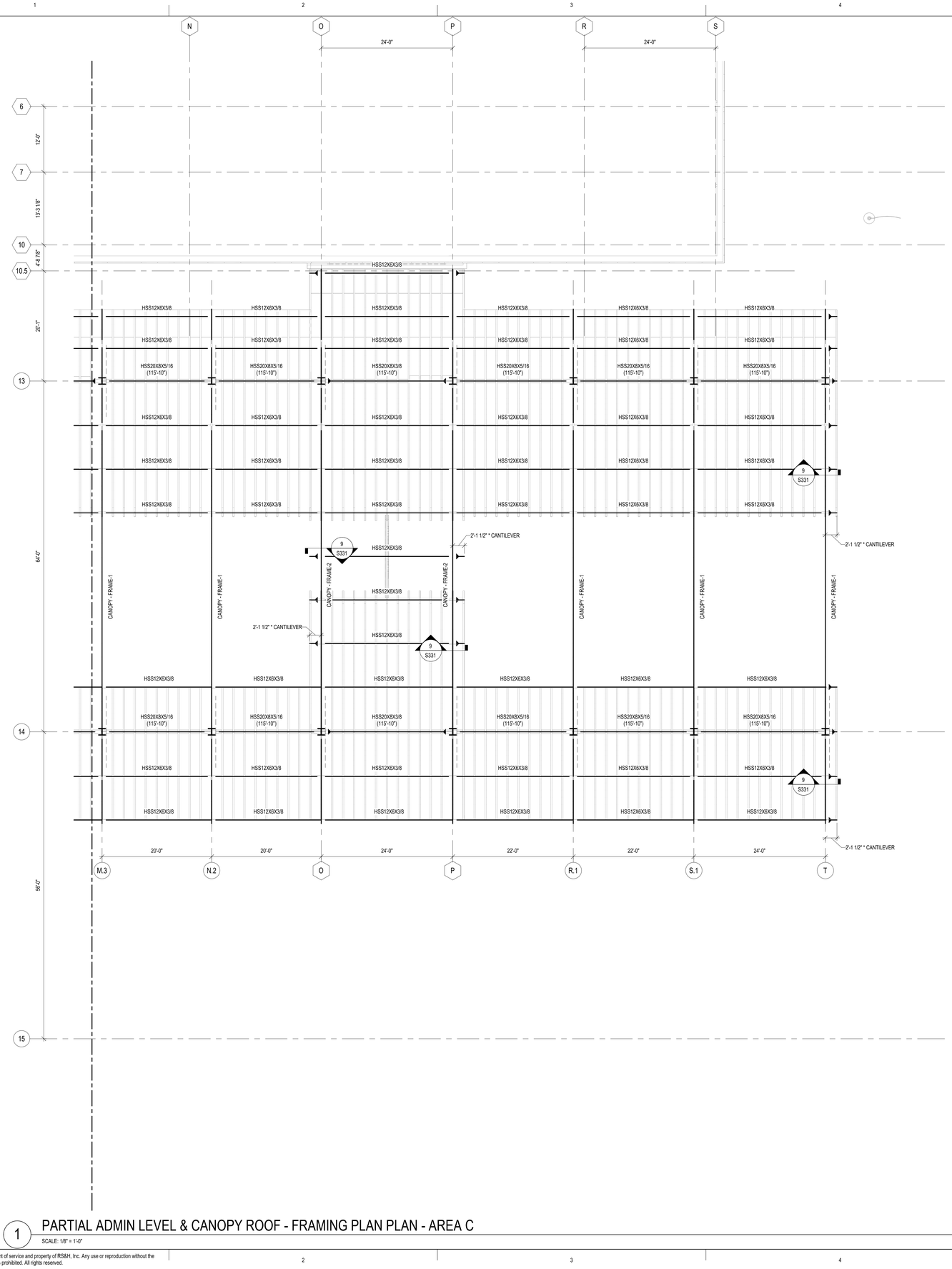

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE DETAIL	
2. STEEL COLUMN: A. COLUMN SIZE _____ W###X##, SEE PLAN B. BASE PLATE _____ BP-#, SEE SCHEDULE	W###X## BP-#
3. CMU WALL, SEE MASONRY NOTES ON S001	
4. FLOOR OPENING	
5. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022	
6. STEEL FRAMING A. BEAM SIZE _____ W###X## B. SHEAR CONNECTORS _____ [XX] C. POSITIVE CAMBER _____ (XX) D. TOP OF STEEL _____ (###'-#")	W###X## [XX] (XX) (###'-#")
7. REFERENCE BASE BID	

FRAMING PLAN NOTES

1. CANOPY STEEL FRAMING:
   - A. FRAME-1 _____ 1/S221
   - B. FRAME-2 _____ 1/S222
   - C. FRAME-3 _____ 2/S222-4
   - D. FRAME-4 _____ 1 & 2/S223
2. * DENOTES COORDINATION REQUIRED WITH ROOF PANEL SYSTEM.

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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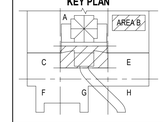
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

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DRAWN BY:	JFS
DESIGNED BY:	JFS
PROJECT NUMBER:	2003-0070-006

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SHEET TITLE:
PARTIAL ADMIN & CANOPY ROOF FRAMING PLAN - AREA C

SHEET ID:
S114-4

PROJECT STATUS:
100% BID SET

PN
N

1 PARTIAL ADMIN LEVEL & CANOPY ROOF - FRAMING PLAN PLAN - AREA C
SCALE: 1/8" = 1'-0"

8 0 8 16
SCALE: 1/8" = 1'-0"

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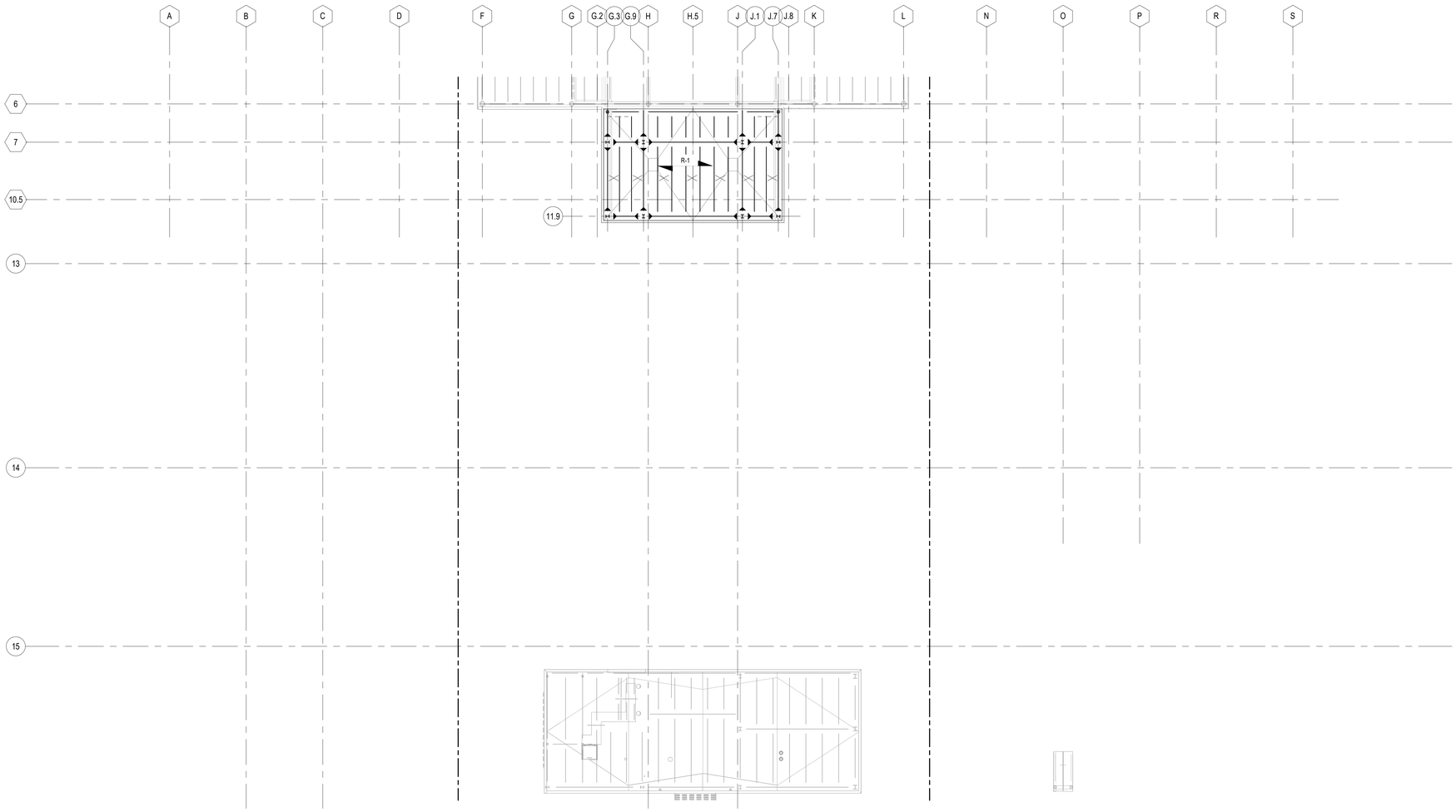

PN

1 OVERALL ROOF FRAMING PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

PLAN LEGEND & SHEET NOTES

OVERALL PLAN LEGEND

DESCRIPTION	SYMBOL
1. EXISTING GRIDS	COL
2. NEW GRIDS	COL
3. FLOOR CONCRETE OVER METAL DECK A. METAL DECK SPAN DIRECTION B. FLOOR TYPE _____ F-#	F-#
4. REFERENCE BASE BID	

OVERALL PLAN NOTES

1. FIELD VERIFY EXISTING GRIDS THAT INFLUENCE NEW WORK PRIOR TO SUBMITTING SHOP DRAWINGS

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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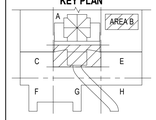
KEY PLAN



REVISIONS

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DATE ISSUED:	03/14/2025
REVIEWED BY:	RLM
DRAWN BY:	JFS
DESIGNED BY:	JFS

PROJECT NUMBER:
2003-0070-006

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SHEET TITLE:
OVERALL ROOF FRAMING PLAN

SHEET ID:
S121-4

PROJECT STATUS:
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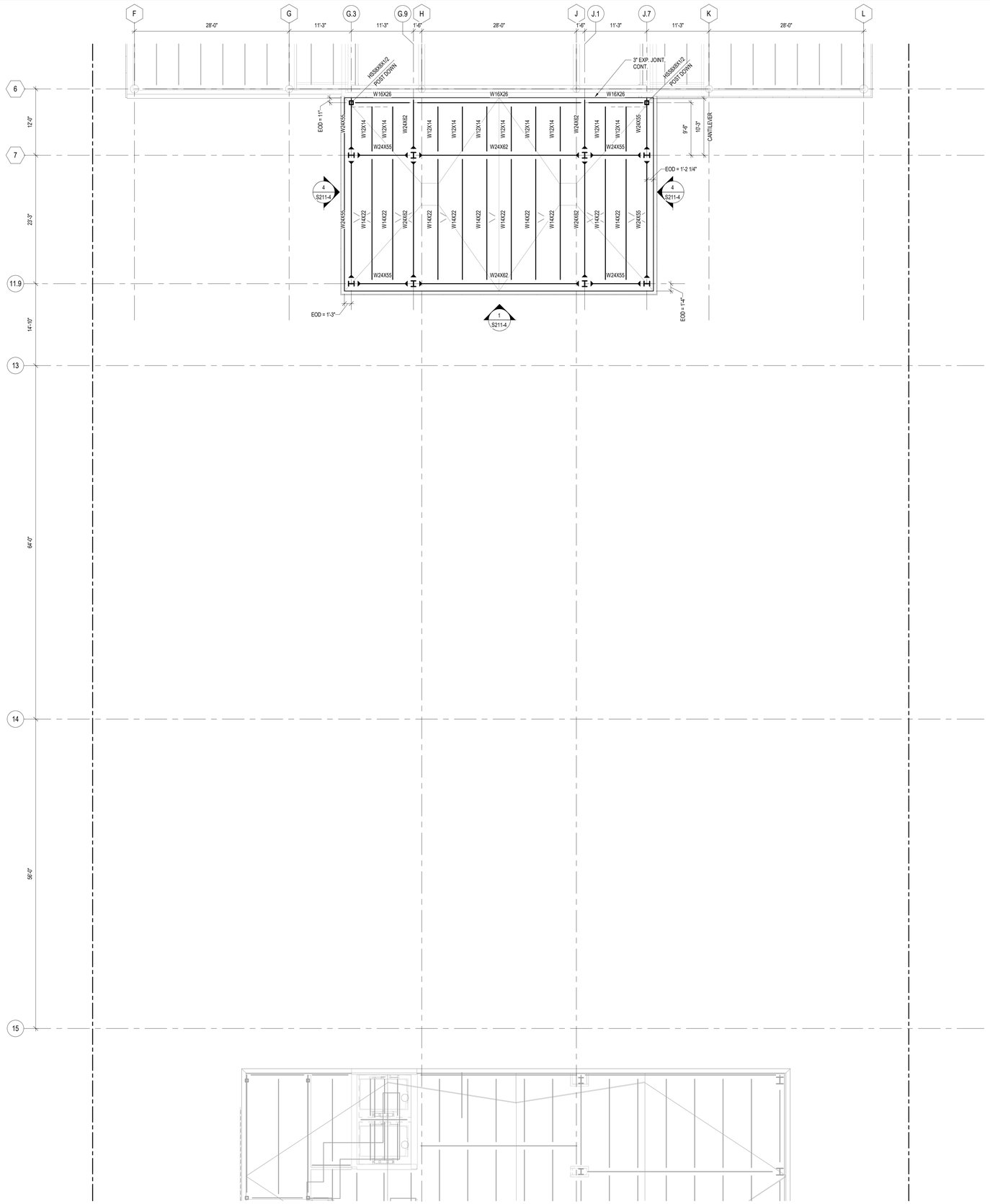

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION

1. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 8/S021
2. STEEL FRAMING
   - A. BEAM SIZE _____ W##X###
   - B. SHEAR CONNECTORS _____ [XX]
   - C. POSITIVE CAMBER _____ [XX]
   - D. TOP OF STEEL _____ (###'-#")
3. MOMENT CONNECTION
   - A. W-FLANGE COLUMN _____ 4/S021
   - B. HSS COLUMN _____ 4/S022
4. STEEL TRUSS _____ S201
5. METAL ROOF DECK SPAN DIRECTION
   - A. METAL DECK TYPE _____ R-#, S001

SYMBOL

W##X### [XX] [XX] (###'-#")

T#

R-#

FRAMING PLAN NOTES

1. TOP OF STEEL ELEVATION EQUALS 128' 10-3/4", UNO
2. BEAMS SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNO

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
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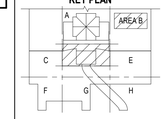
KEY PLAN



REVISIONS

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DATE ISSUED: 03/14/2025
REVIEWED BY: RLM
DRAWN BY: JFS
DESIGNED BY: JFS
PROJECT NUMBER:
2003-0070-006

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SHEET TITLE:
PARTIAL ROOF FRAMING PLAN - AREA B

SHEET ID:
S123-4

PROJECT STATUS:
100% BID SET

PN
N

1 PARTIAL ROOF FRAMING PLAN - AREA B
SCALE: 1/8" = 1'-0"

8 0 8 16
SCALE: 1/8" = 1'-0"

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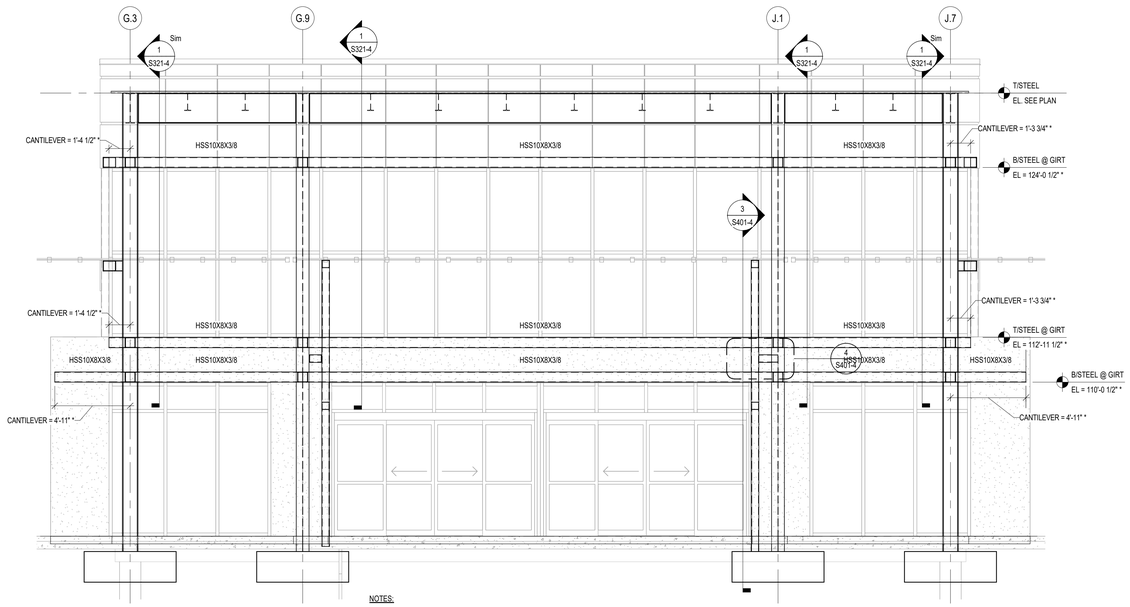
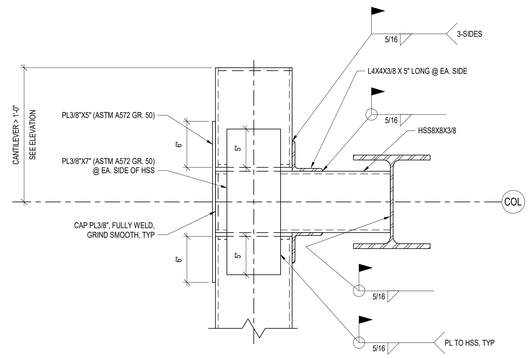


NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY, SEE ARCH. AND SHOP DRAWINGS.

1 PARTIAL BUILDING ELEVATION @ NEW EXTERIOR WALL

SCALE: 1/4" = 1'-0"

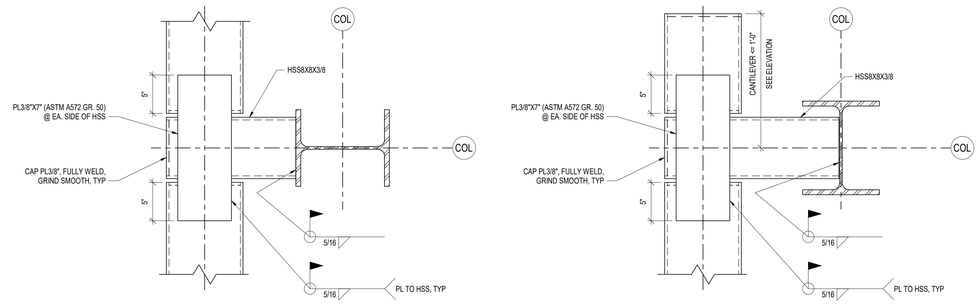


NOTES:

1. GAP BETWEEN MEMBERS SHALL NOT EXCEED 1/2"

2 TYPICAL GIRT CONNECTION @ CANTILEVER

SCALE: N.T.S.

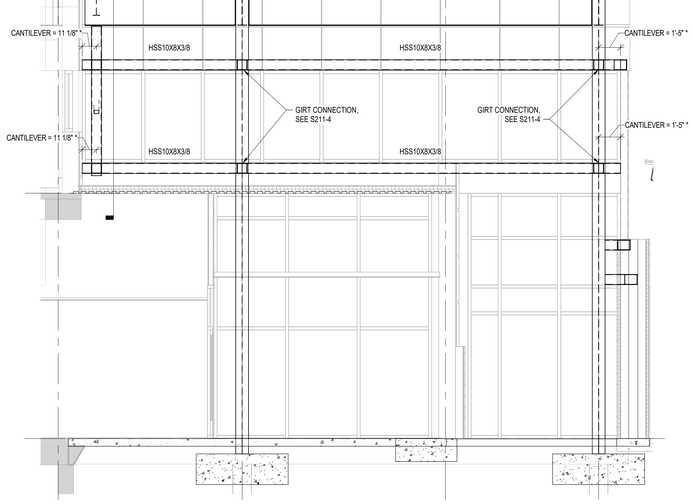


NOTES:

1. GAP BETWEEN MEMBERS SHALL NOT EXCEED 1/2"

3 TYPICAL GIRT CONNECTION

SCALE: N.T.S.



NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY, SEE ARCH. AND SHOP DRAWINGS.

4 PARTIAL BUILDING ELEVATION @ NEW EXTERIOR WALL

SCALE: 1/4" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY:	JFS
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SHEET TITLE:
PARTIAL BUILDING ELEVATIONS

SHEET ID:
S211-4

PROJECT STATUS:
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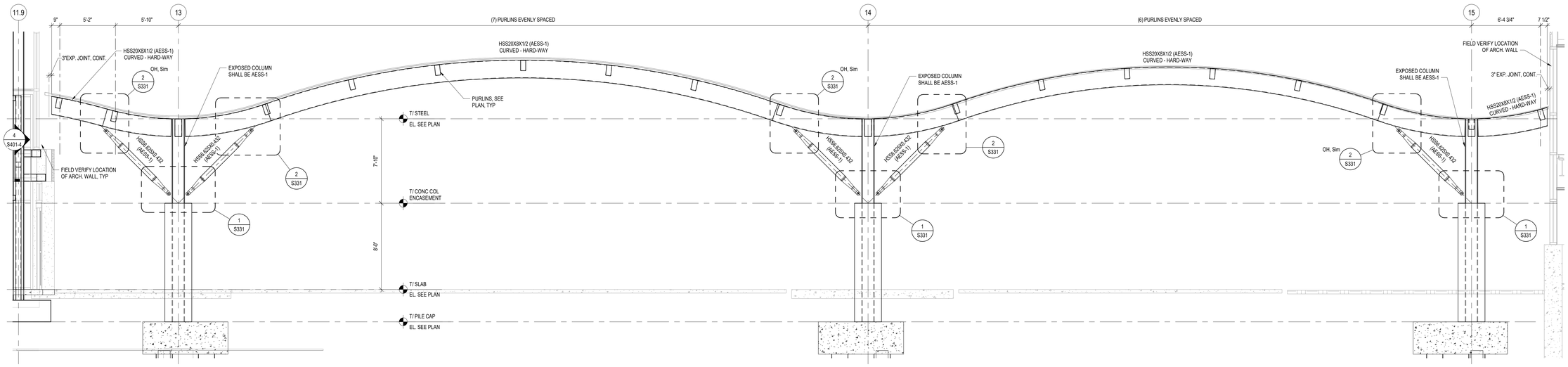

2 CANOPY FRAME ELEVATION - FRAME-3

SCALE: 1/4" = 1'-0"

CANOPY FRAME ELEVATION SHEET NOTES

1. ALL HSS SPLICES SHALL BE COMPLETE JOINT PENETRATION WELDS, SEE DETAIL 2/S331
2. HSS CONNECTIONS, REFERENCE TYPICAL CONNECTION DETAILS ON SHEET S331
3. PROVIDE (1) 1/4" WEEP HOLE FOR EACH HSS SPAN WITH THE FOLLOWING CRITERIA:
   A. 12" FROM EACH END
   B. CENTERED ON THE HSS BOTTOM WALL
4. ADDITIONAL GEOMETRY INFORMATION, SEE FRAME ELEVATION 2/S221
5. INTERNAL HSS CAP PLATES SHALL BE PROVIDED AT ALL OPEN ENDS, UNO
   A. CAP PLATE SHALL BE 1/8" LESS THAN THE HSS WALL THICKNESS AND GREATER THAN 1/4"
   B. CAP PLATE SHALL BE FULLY WELDED AND GRIND SMOOTH, AESS-1
6. ALL CANOPY STEEL FRAMING SHALL BE PAINTED WITH A HIGH PERFORMANCE COATING AND FINISHING, SEE ARCH. AND SPECIFICATION 099600

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ILM

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SHEET TITLE:
CANOPY FRAMING ELEVATIONS

SHEET ID:
S222-4

PROJECT STATUS:
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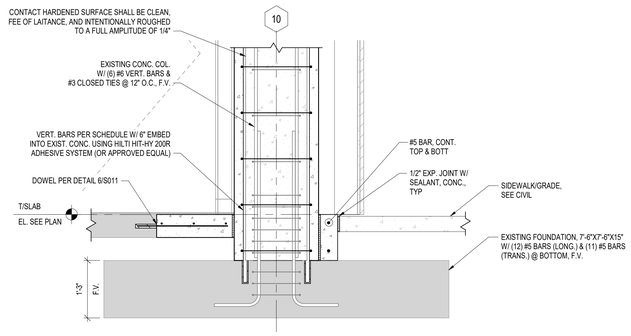
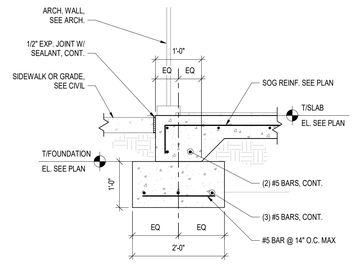


NOTES:

1. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY

1 SECTION @ FLOOR

SCALE: 3/4" = 1'-0"



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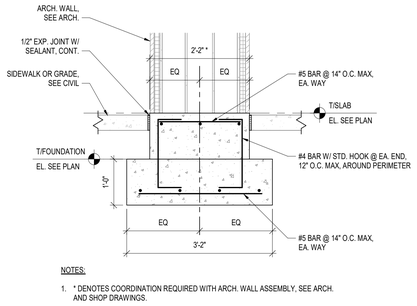
SCALE: 3/4" = 1'-0"



NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY, SEE ARCH. AND SHOP DRAWINGS.

3 SECTION @ FLOOR

SCALE: 3/4" = 1'-0"

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F-0493 * C-28

Hartranft Lighting Design

ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: RLM
DRAWN BY: JFS
DESIGNED BY: JFS
PROJECT NUMBER:
2003-0070-006

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SEAL:

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NOT FOR CONSTRUCTION

SHEET TITLE:
FLOOR & FOUNDATION SECTIONS

SHEET ID:
S301-4

PROJECT STATUS:
100% BID SET

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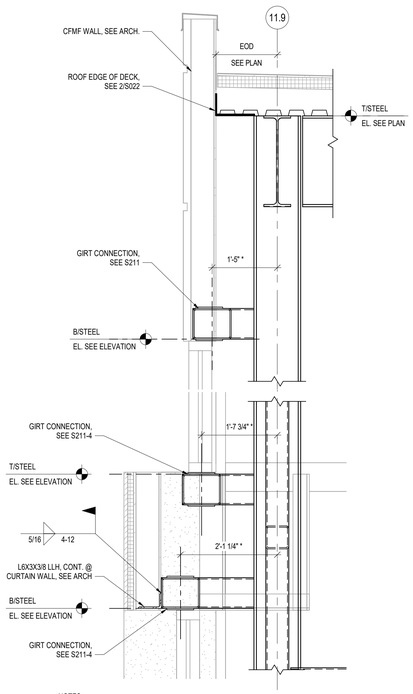
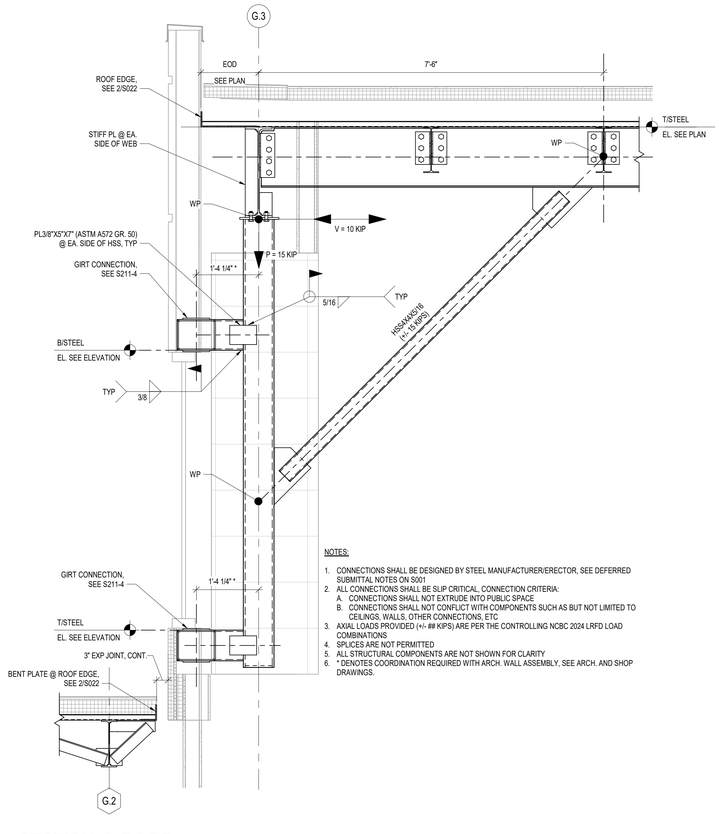


NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY, SEE ARCH. AND SHOP DRAWINGS.

1 SECTION @ ROOF

SCALE: 3/4" = 1'-0"



NOTES:

1. CONNECTIONS SHALL BE DESIGNED BY STEEL MANUFACTURER/ERECTOR, SEE DEFERRED SUBMITTAL NOTES ON S001
2. ALL CONNECTIONS SHALL BE SLIP CRITICAL, CONNECTION CRITERIA:
   A. CONNECTIONS SHALL NOT EXTRUDE INTO PUBLIC SPACE
   B. CONNECTIONS SHALL NOT CONFLICT WITH COMPONENTS SUCH AS BUT NOT LIMITED TO CEILINGS, WALLS, OTHER CONNECTIONS, ETC
3. AXIAL LOADS PROVIDED (+/- ## KIPS) ARE PER THE CONTROLLING NCBC 2024 LRFD LOAD COMBINATIONS
4. SPLICES ARE NOT PERMITTED
5. ALL STRUCTURAL COMPONENTS ARE NOT SHOWN FOR CLARITY
6. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY, SEE ARCH. AND SHOP DRAWINGS.

2 SECTION @ ROOF

SCALE: 3/4" = 1'-0"

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Hartranft Lighting Design

ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	RLM
DRAWN BY:	JFS
DESIGNED BY:	JFS

PROJECT NUMBER:
2003-0070-006

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SEAL:

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SHEET TITLE:
ROOF FRAMING SECTIONS

SHEET ID:
S321-4

PROJECT STATUS:
100% BID SET

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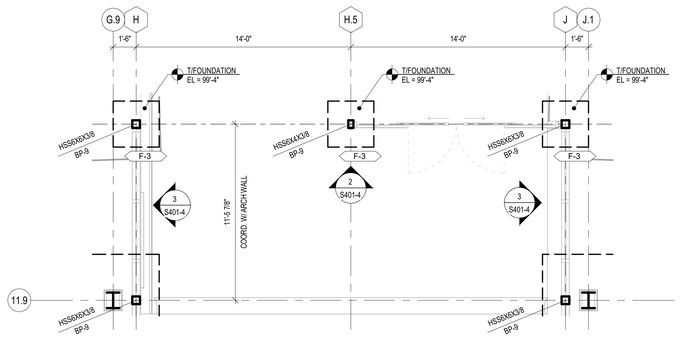
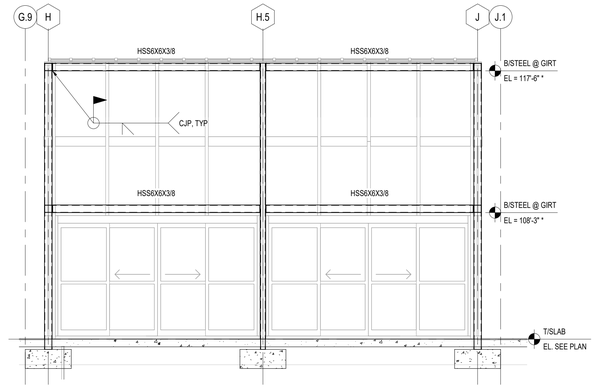


NOTES:

1. FOR LEGEND, REFERENCE SHEET S113-4

1 ENLARGED TICKETING LEVEL PLAN @ INTERIOR VESTIBULE

SCALE: 1/4" = 1'-0"

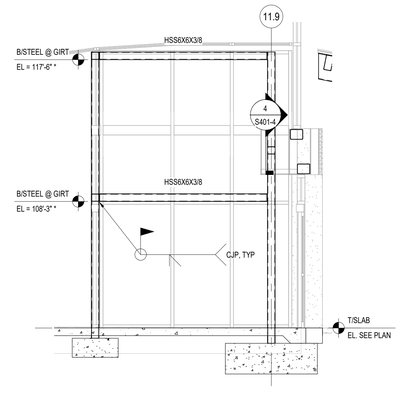


NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY, SEE ARCH. AND SHOP DRAWINGS.

2 PARTIAL BUILDING ELEVATION @ INTERIOR VESTIBULE

SCALE: 1/4" = 1'-0"



NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY, SEE ARCH. AND SHOP DRAWINGS.

3 PARTIAL BUILDING ELEVATION @ INTERIOR VESTIBULE

SCALE: 1/4" = 1'-0"

4 SECTION @ INTERIOR VESTIBULE

SCALE: 3/4" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: RLM
DRAWN BY: JFS
DESIGNED BY: JFS
PROJECT NUMBER:
2003-0070-006
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SEAL:

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SHEET TITLE:
ENLARGED PLANS

SHEET ID:
S401-4

PROJECT STATUS:
100% BID SET

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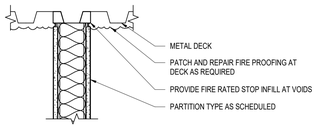
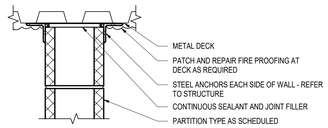
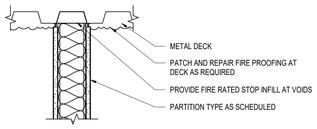


HEAD DETAIL @ STUD WALL AND MTL DECK



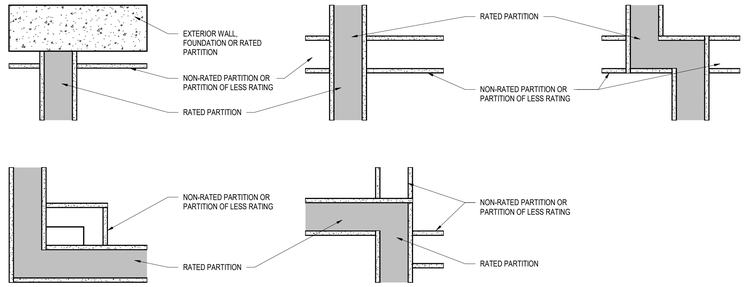
HEAD DETAIL @ CMU WALL AND MTL DECK



HEAD DETAIL @ STUD WALL AND MTL DECK

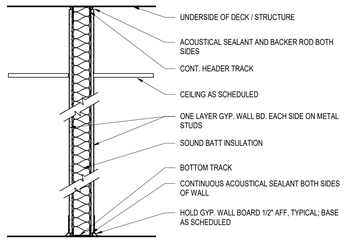
D1 HEAD DETAILS - FIRE RATED - HORIZONTAL

SCALE: 1 1/2" = 1'-0"



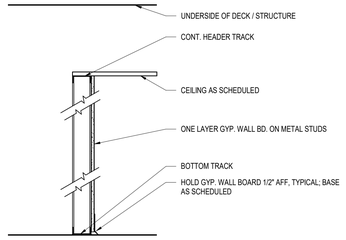
D3 RATED PARTITION CONTINUITY - HORIZONTAL

SCALE: 1 1/2" = 1'-0"



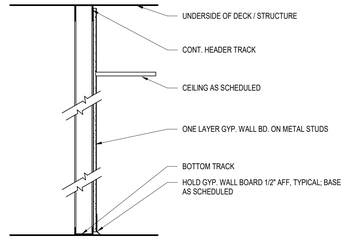
A#-D PARTITION TYPE

A#-D PARTITION TYPE SCHEDULE - BID ALT 2						
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
A3-D	3 5/8" MTL STUD, 5/8" GWB, BATT INSULATION	-	-	-	40	
A4-D	3 5/8" METAL STUD, 5/8" BACKER BOARD, 1" TILE BOTH SIDES	-	-	-	40	
A5-D	3 5/8" METAL STUD, 5/8" BACKER BOARD, 1" TILE ONE SIDE, 5/8" GWB ONE SIDE	-	-	-	40	



F#-C PARTITION TYPE

F#-C PARTITION TYPE SCHEDULE - BID ALT 2						
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
F1-C	1 5/8" METAL STUD, 5/8" GWB ONE SIDE	-	-	-	-	
F3-C	3 5/8" MTL STUD, 5/8" GWB ONE SIDE	-	-	-	-	



F#-D PARTITION TYPE

F#-D PARTITION TYPE SCHEDULE -BID ALT 2						
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
F3-D	3 5/8" MTL STUD, 5/8" GWB ONE SIDE	-				
F4-D	3 5/8" MTL STUD, 5/8" BACKER BOARD, 3/8" TILE ONE SIDE	-				

GENERAL PARTITION TYPES NOTES

GENERAL NOTES

1. SEE PLANS FOR ALL LOCATIONS OF PARTITION TYPES.
2. PROVIDE WATER-RESISTANT CORE GYPSUM WALL BOARD AT TILED OR WET LOCATIONS, INCLUDING, BUT NOT LIMITED TO: RESTROOMS, LOCKER ROOMS, SHOWER AREAS, JANITOR CLOSETS, KITCHEN AREAS.
3. SEE STRUCTURAL DRAWINGS FOR MASONRY WALL SIZE AND CONSTRUCTION.
4. COLUMNS SHOWN W/ ENCLOSURES AS PER DETAILS ON ARCHITECTURAL DRAWINGS. WHERE COLUMNS INTERSECT PARTITIONS, PROVIDE RATED OR SOUND ATTENUATED PARTITION ACROSS COLUMN ENCLOSURE, TO MAINTAIN ASSEMBLY RATING.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL BOARD PRODUCT DATA, THICKNESS, AND ADDITIONAL PERFORMANCE REQUIREMENTS.
6. REFER TO SPECIFICATIONS FOR METAL STUD SPACING AND PERFORMANCE REQUIREMENTS FOR METAL STUD GAUGES.
7. GYPSUM WALLBOARD ON PARTITIONS REQUIRING A RATING OF ONE-HOUR OR MORE MUST MEET CONDITIONS STIPULATED BY UL DESIGN NUMBER, WHETHER OR NOT WALL TREATMENT IS SCHEDULED.
8. FRICTION FIT SOUND ATTENUATION INSULATION SNUG IN PLACE BETWEEN FRAMING USED IN PARTITIONS.
9. SCHEDULE CONSTRUCTION OF WALLS ACCORDING TO PRIORITY.
   - TWO HOUR FIRE & SMOKE WALL — PRIORITY 1 (HIGHEST)
   - TWO HOUR FIRE WALL — PRIORITY 2
   - ONE HOUR FIRE & SMOKE WALL — PRIORITY 3
   - ONE HOUR FIRE WALL — PRIORITY 4
   - NON-RATED WALL — PRIORITY 5 (LOWEST)

PARTITION TAG

NOTE: PARTITION TAGS ARE READ LEFT TO RIGHT.

1. THE FIRST SECTION IN THE TAG INDICATES THE WALL TYPE BASED ON THE PRIMARY MATERIAL OR USE OF THE PARTITION AS REFERENCED IN THE WALL TYPE SCHEDULE'S FIRST TWO COLUMNS.
2. THE SECOND SECTION IN THE TAG INDICATES THE HEAD CONDITION OF THE WALL: A = 6" ABOVE CEILING, B = 6" BELOW STRUCTURE, C = TO CEILING, D = TO DECK/STRUCTURE, P = PARTIAL HEIGHT WALL
3. THE LAST SECTION IN THE TAG INDICATES WHETHER THE WALL ASSEMBLY IS FIRE RATED (IF APPLICABLE) AND IF SO, TO WHAT NUMERICAL HOUR RATING.

STANDARD PARTITION TAG

B3-A
- B = WALL TYPE (MATERIAL/USE)
- A = HEAD CONDITION

RATED PARTITION TAG

RB3-1
- B = WALL TYPE (MATERIAL/USE)
- 1 = NUMERICAL HOUR RATING

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: SG
DRAWN BY: Author
DESIGNED BY: FG
PROJECT NUMBER:
1003-0070-004

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SEAL:

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SHEET TITLE:
PARTITION TYPES

SHEET ID:
A001-4

PROJECT STATUS:
100% BID SET

1 0 1
SCALE: 1 1/2" = 1'-0"

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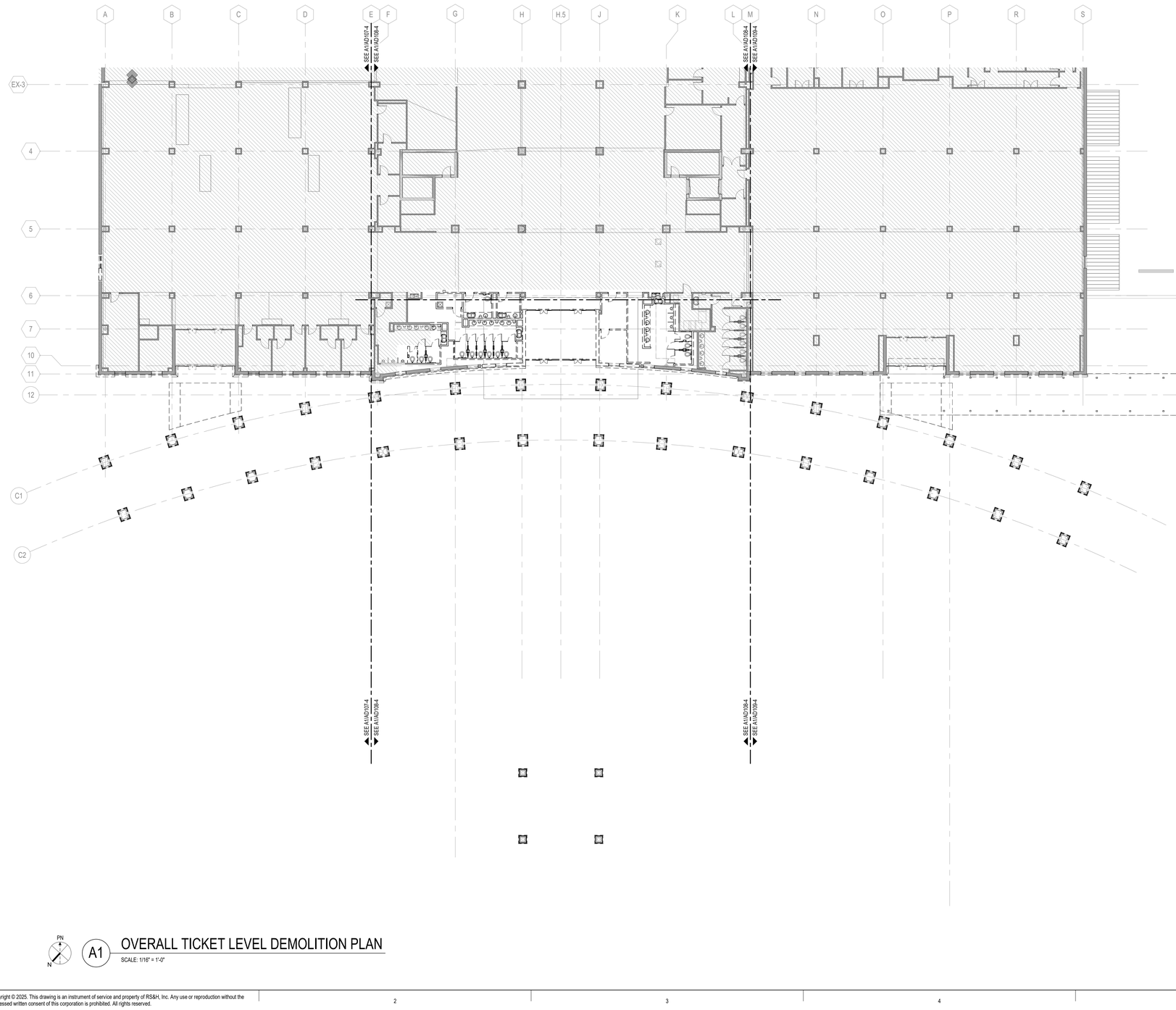

PN

A1 OVERALL TICKET LEVEL DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

DEMOLITION PLAN LEGEND

PARTITION LEGEND

- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO REMAIN
- AREA NOT IN CONTRACT (NIC) U.N.O.
- EXISTING CONSTRUCTION TO BE PARTIALLY DEMOLISHED AND/OR REPAIRED, U.N.O.

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO SCHEDULE AND COORDINATE WITH AIRPORT AND TENANTS PRIOR TO BEGINNING DEMOLITION WORK. MAINTAIN EXISTING OPERATIONS, PROTECT EXISTING FINISHES AND EQUIPMENT, AND RESTORE FINISHES AND (EQUIPMENT IF DAMAGED) REMOVED OR DAMAGED AS PART OF THE WORK OF THIS PROJECT.
2. NEITHER THE A/E OR OWNER GUARANTEE THE ACCURACY OF THE EXISTING CONDITIONS DEFINED WITHIN THE CONTRACT DOCUMENTS OR RECORD DRAWINGS. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS.
3. DEMOLITION WORK MUST BE PHASED TO ACCOMMODATE NEW WORK. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATION AND SEQUENCING NEW AND DEMO WORK (SEE PHASING DIAGRAMS), IN ORDER TO PROVIDE A FINISHED AND OCCUPIED /USEABLE SPACE AT THE COMPLETION OF EACH PHASE OF THE WORK.
4. ALL DEMOLITION WORK, TEMPORARY REMOVAL OF EXISTING ELEMENTS, AND REINSTALLATION OF TEMPORARILY REMOVED ELEMENTS, FOR INSTALLATION OF NEW WORK MUST BE INCLUDED IN THE GENERAL CONTRACTOR'S BID. ANY STRUCTURAL FRAMING TO BE DEMOLISHED BY GENERAL CONTRACTOR MUST BE REVIEWED IN THE FIELD BY THE STRUCTURAL ENGINEER PRIOR TO DEMO WORK PROCEEDING, AS PART OF PRE-DEMOLITION MEETING.
5. WHEN ITEMS ARE SHOWN AS DEMOLISHED, ALL ASSOCIATED ABANDONED CONDUIT, WIRE HANGERS, STRAPS, AND SUPPORTS MUST ALSO BE REMOVED.
6. EXISTING UTILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION. G.C. MUST NOTIFY THE AIRPORT AUTHORITY OF ANY DISRUPTIONS 72 HOURS IN ADVANCE AND PROVIDE INTERIM UTILITIES AS REQUIRED.
7. REFERENCE OTHER DISCIPLINES -STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM, DATA, FIRE SPRINKLERS, ETC., FOR ADDITIONAL DEMOLITION REQUIREMENTS.
8. THE AIRPORT/AIRLINE OPERATIONS MUST BE MAINTAINED AT ALL TIMES; THE CONTRACTOR'S WORK MAY BE INTERRUPTED IF AIRPORT/AIRLINE OPERATIONS ARE IMPACTED; THE CONTRACTOR'S SCHEDULE & SEQUENCE OF WORK MUST BE COORDINATED WITH THE AIRPORT & AIRLINES.
9. THE CONTRACTOR IS TO PROTECT EXISTING FINISHES, AND MAKE REPAIRS TO THE EXISTING FINISHES AND FIRE PROOFING WHERE DAMAGED OR REQUIRED FOR UNDER SLAB WORK AND CORES, AS PART OF THE NEW WORK ASSOCIATED WITH THIS PROJECT.
10. NOTES APPEAR ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.
11. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR OTHER APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
12. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
13. DEMOLITION NOTES ARE TO DEFINE INTENT. DEMOLITION MUST INCLUDE ALL ITEMS INDICATED ON THE PLANS AND ALL OTHER ITEMS REQUIRED TO BE DEMOLISHED IN ORDER TO ACCOMPLISH NEW CONSTRUCTION AND FINISHES INDICTED ELSEWHERE ON THE ENTIRE SET OF CONTRACT DOCUMENTS. ALL CONTRACTOR(S), SUBCONTRACTORS AND VENDORS MUST FIELD VERIFY ALL PRIOR TO DEMOLITION.
14. REMOVE ALL EXISTING CEILINGS, LIGHT FIXTURES, DUCTWORK AND DIFFUSERS IN THE AREA OF DEMOLITION U.N.O.
15. COORDINATE WITH OWNER'S REPRESENTATIVE FOR PROCEDURES REGARDING HANDLING OF DEBRIS, CONSTRUCTION MATERIALS AND EQUIPMENT.
16. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF EXISTING CONSTRUCTION OR COLUMN CENTER LINE UNLESS NOTED OTHERWISE (U.N.O.)
17. PROTECT EXISTING CONSTRUCTION. REPAIR OR REPLACE ALL EXISTING CONSTRUCTION SCHEDULED TO REMAIN DAMAGED BY SELECTIVE DEMOLITION OR BY NEW WORK PROGRESS.
18. PATCH EXISTING WHERE DEMOLITION OCCURRED TO MATCH NEW FINISH REQUIREMENTS AS NEEDED FOR AN UNDETECTABLE REPAIR.
19. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES.
20. WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
21. ALL DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
22. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
23. ALL MATERIALS TO BE NEW, UNUSED AND OF THE HIGHEST QUALITY IN EVERY RESPECT, UNLESS OTHERWISE NOTED. MANUFACTURED MATERIALS AND EQUIPMENT TO BE STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTRUCTIONS.
24. ALL WORK AND MATERIALS TO BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER APPROVAL OF FINAL PAYMENT.
25. PROVIDE FINAL CLEANING OF ALL AREAS OF WORK INCLUDING THE CONSTRUCTION ACCESS ROUTE. FINAL CLEANING TO INCLUDE WINDOWS AND CEILINGS.
26. ALL FINISHES TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR THE TYPE OF MATERIAL AND INSTALLATION SPECIFIED.
27. PAINT TO BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS OVER PROPERLY PREPARED SURFACES. SURFACES TO BE STRAIGHT AND SMOOTH. PROVIDE MINIMUM ONE COAT PRIME AND ONE FINISH COAT. FINISH COAT TO COMPLETELY COVER WITH NO STREAKING OR BLEEDING OF UNDERCOATS.
28. SCHEDULE WITH THE BUILDING OWNER OR HIS REPRESENTATIVE FOR ANY CONSTRUCTION WORK THAT MAY DISTURB ADJACENT BUILDING TENANTS IN ANY WAY DURING NORMAL BUSINESS HOURS.
29. LIFE-SAFETY SYSTEMS TO BE OPERATIONAL AT THE END OF EACH WORKDAY THROUGHOUT THE CONSTRUCTION PERIOD (NOT ONLY DURING DEMOLITION).
30. REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING ALTERATIONS TO ANY BUILDING UNLESS PERMITTED BY SECTION 3302.1 NCBC.

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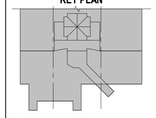
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
1003-0070-004

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SEAL:

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

SHEET TITLE:
OVERALL TICKET LEVEL DEMOLITION PLAN

SHEET ID:
AD106-4

PROJECT STATUS:
100% BID SET

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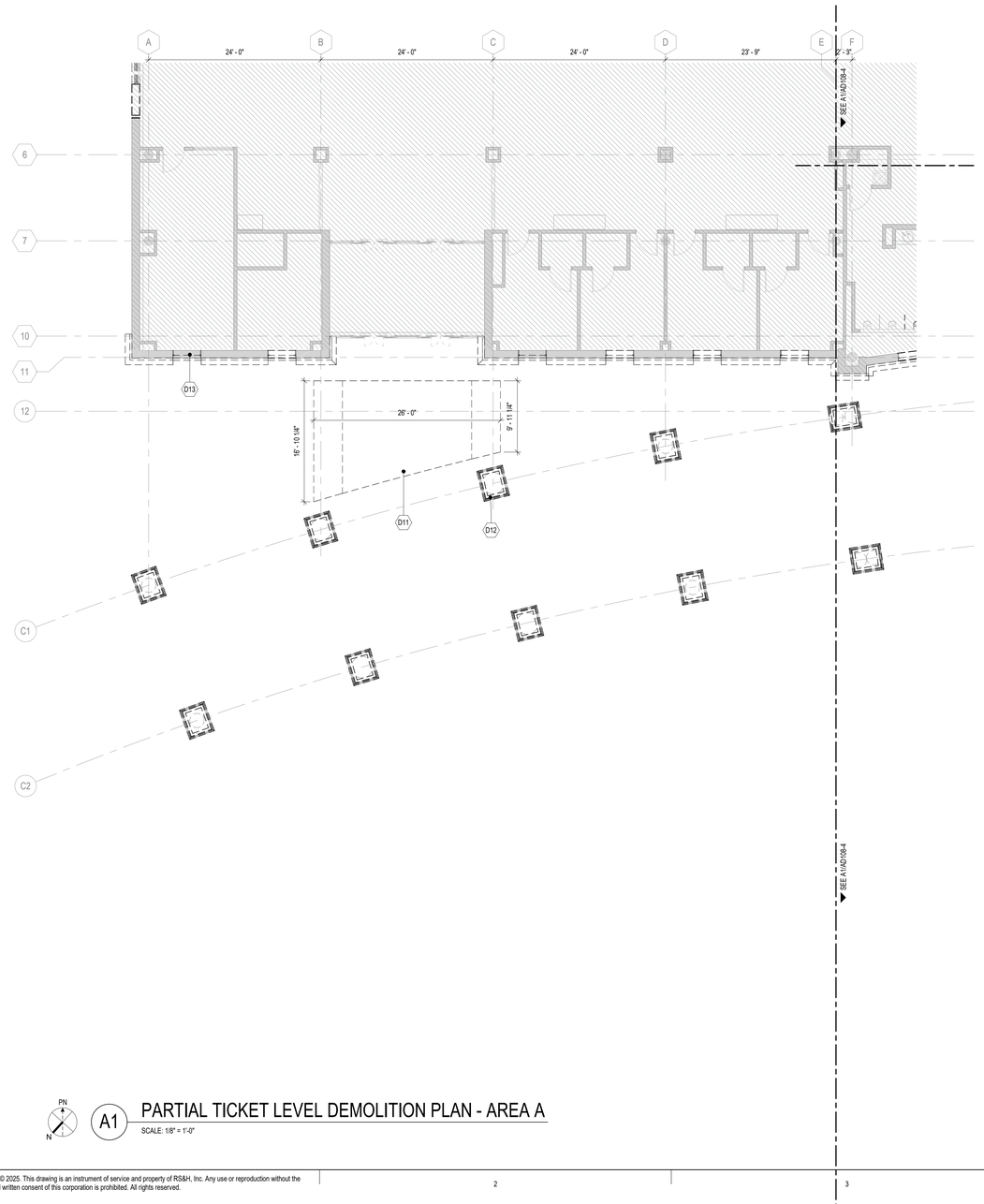

PN

A1 PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA A

SCALE: 1/8" = 1'-0"

DEMOLITION PLAN LEGEND

PARTITION LEGEND

- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO REMAIN
- AREA NOT IN CONTRACT (NIC) U.N.O.
- EXISTING CONSTRUCTION TO BE PARTIALLY DEMOLISHED AND/OR REPAIRED, U.N.O.

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO SCHEDULE AND COORDINATE WITH AIRPORT AND TENANTS PRIOR TO BEGINNING DEMOLITION WORK. MAINTAIN EXISTING OPERATIONS, PROTECT EXISTING FINISHES AND EQUIPMENT, AND RESTORE FINISHES AND (EQUIPMENT IF DAMAGED) REMOVED OR DAMAGED AS PART OF THE WORK OF THIS PROJECT.
2. NEITHER THE A/E OR OWNER GUARANTEE THE ACCURACY OF THE EXISTING CONDITIONS DEFINED WITHIN THE CONTRACT DOCUMENTS OR RECORD DRAWINGS. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS.
3. DEMOLITION WORK MUST BE PHASED TO ACCOMMODATE NEW WORK. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATION AND SEQUENCING NEW AND DEMO WORK (SEE PHASING DIAGRAMS), IN ORDER TO PROVIDE A FINISHED AND OCCUPIED /USEABLE SPACE AT THE COMPLETION OF EACH PHASE OF THE WORK.
4. ALL DEMOLITION WORK, TEMPORARY REMOVAL OF EXISTING ELEMENTS, AND REINSTALLATION OF TEMPORARILY REMOVED ELEMENTS, FOR INSTALLATION OF NEW WORK MUST BE INCLUDED IN THE GENERAL CONTRACTOR'S BID. ANY STRUCTURAL FRAMING TO BE DEMOLISHED BY GENERAL CONTRACTOR MUST BE REVIEWED IN THE FIELD BY THE STRUCTURAL ENGINEER PRIOR TO DEMO WORK PROCEEDING, AS PART OF PRE-DEMOLITION MEETING.
5. WHEN ITEMS ARE SHOWN AS DEMOLISHED, ALL ASSOCIATED ABANDONED CONDUIT, WIRE HANGERS, STRAPS, AND SUPPORTS MUST ALSO BE REMOVED.
6. EXISTING UTILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION. G.C. MUST NOTIFY THE AIRPORT AUTHORITY OF ANY DISRUPTIONS 72 HOURS IN ADVANCE AND PROVIDE INTERIM UTILITIES AS REQUIRED.
7. REFERENCE OTHER DISCIPLINES -STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM, DATA, FIRE SPRINKLERS, ETC., FOR ADDITIONAL DEMOLITION REQUIREMENTS.
8. THE AIRPORT/AIRLINE OPERATIONS MUST BE MAINTAINED AT ALL TIMES; THE CONTRACTOR'S WORK MAY BE INTERRUPTED IF AIRPORT/AIRLINE OPERATIONS ARE IMPACTED; THE CONTRACTOR'S SCHEDULE & SEQUENCE OF WORK MUST BE COORDINATED WITH THE AIRPORT & AIRLINES.
9. THE CONTRACTOR IS TO PROTECT EXISTING FINISHES, AND MAKE REPAIRS TO THE EXISTING FINISHES AND FIRE PROOFING WHERE DAMAGED OR REQUIRED FOR UNDER SLAB WORK AND CORES, AS PART OF THE NEW WORK ASSOCIATED WITH THIS PROJECT.
10. NOTES APPEAR ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.
11. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR OTHER APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
12. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
13. DEMOLITION NOTES ARE TO DEFINE INTENT. DEMOLITION MUST INCLUDE ALL ITEMS INDICATED ON THE PLANS AND ALL OTHER ITEMS REQUIRED TO BE DEMOLISHED IN ORDER TO ACCOMPLISH NEW CONSTRUCTION AND FINISHES INDICTED ELSEWHERE ON THE ENTIRE SET OF CONTRACT DOCUMENTS. ALL CONTRACTOR(S), SUBCONTRACTORS AND VENDORS MUST FIELD VERIFY ALL PRIOR TO DEMOLITION.
14. REMOVE ALL EXISTING CEILINGS, LIGHT FIXTURES, DUCTWORK AND DIFFUSERS IN THE AREA OF DEMOLITION U.N.O.
15. COORDINATE WITH OWNER'S REPRESENTATIVE FOR PROCEDURES REGARDING HANDLING OF DEBRIS, CONSTRUCTION MATERIALS AND EQUIPMENT.
16. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF EXISTING CONSTRUCTION OR COLUMN CENTER LINE UNLESS NOTED OTHERWISE (U.N.O.)
17. PROTECT EXISTING CONSTRUCTION. REPAIR OR REPLACE ALL EXISTING CONSTRUCTION SCHEDULED TO REMAIN DAMAGED BY SELECTIVE DEMOLITION OR BY NEW WORK PROGRESS.
18. PATCH EXISTING WHERE DEMOLITION OCCURRED TO MATCH NEW FINISH REQUIREMENTS AS NEEDED FOR AN UNDETECTABLE REPAIR.
19. ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS AND GOVERNING AUTHORITIES.
20. WHERE SPECIFIC DIMENSIONS, DETAILS AND DESIGN INTENT CANNOT BE DETERMINED, NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH ANY WORK IN QUESTION.
21. ALL DIMENSIONS SHALL GOVERN. DO NOT SCALE DRAWINGS. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
22. ALL DIMENSIONS SHALL BE VERIFIED ON SITE BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
23. ALL MATERIALS TO BE NEW, UNUSED AND OF THE HIGHEST QUALITY IN EVERY RESPECT, UNLESS OTHERWISE NOTED. MANUFACTURED MATERIALS AND EQUIPMENT TO BE STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTRUCTIONS.
24. ALL WORK AND MATERIALS TO BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER APPROVAL OF FINAL PAYMENT.
25. PROVIDE FINAL CLEANING OF ALL AREAS OF WORK INCLUDING THE CONSTRUCTION ACCESS ROUTE. FINAL CLEANING TO INCLUDE WINDOWS AND CEILINGS.
26. ALL FINISHES TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR THE TYPE OF MATERIAL AND INSTALLATION SPECIFIED.
27. PAINT TO BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS OVER PROPERLY PREPARED SURFACES. SURFACES TO BE STRAIGHT AND SMOOTH. PROVIDE MINIMUM ONE COAT PRIME AND ONE FINISH COAT. FINISH COAT TO COMPLETELY COVER WITH NO STREAKING OR BLEEDING OF UNDERCOATS.
28. SCHEDULE WITH THE BUILDING OWNER OR HIS REPRESENTATIVE FOR ANY CONSTRUCTION WORK THAT MAY DISTURB ADJACENT BUILDING TENANTS IN ANY WAY DURING NORMAL BUSINESS HOURS.
29. LIFE-SAFETY SYSTEMS TO BE OPERATIONAL AT THE END OF EACH WORKDAY THROUGHOUT THE CONSTRUCTION PERIOD (NOT ONLY DURING DEMOLITION).
30. REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING ALTERATIONS TO ANY BUILDING UNLESS PERMITTED BY SECTION 3302.1 NCBC.

DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D11	DEMOLISH CONCRETE SLAB IN PREP FOR NEW SLAB.
D12	DEMOLISH EXISTING BRICK COLUMNS IN ENTIRETY IN PREP FOR NEW COLUMNS.
D13	DEMOLISH EXISTING WINDOWS AND PREPARE FOR NEW WINDOWS PER NEW WORK PLANS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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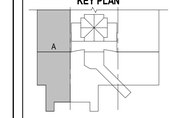
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
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SHEET TITLE:
PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA A

SHEET ID:
AD107-4

PROJECT STATUS:
100% BID SET

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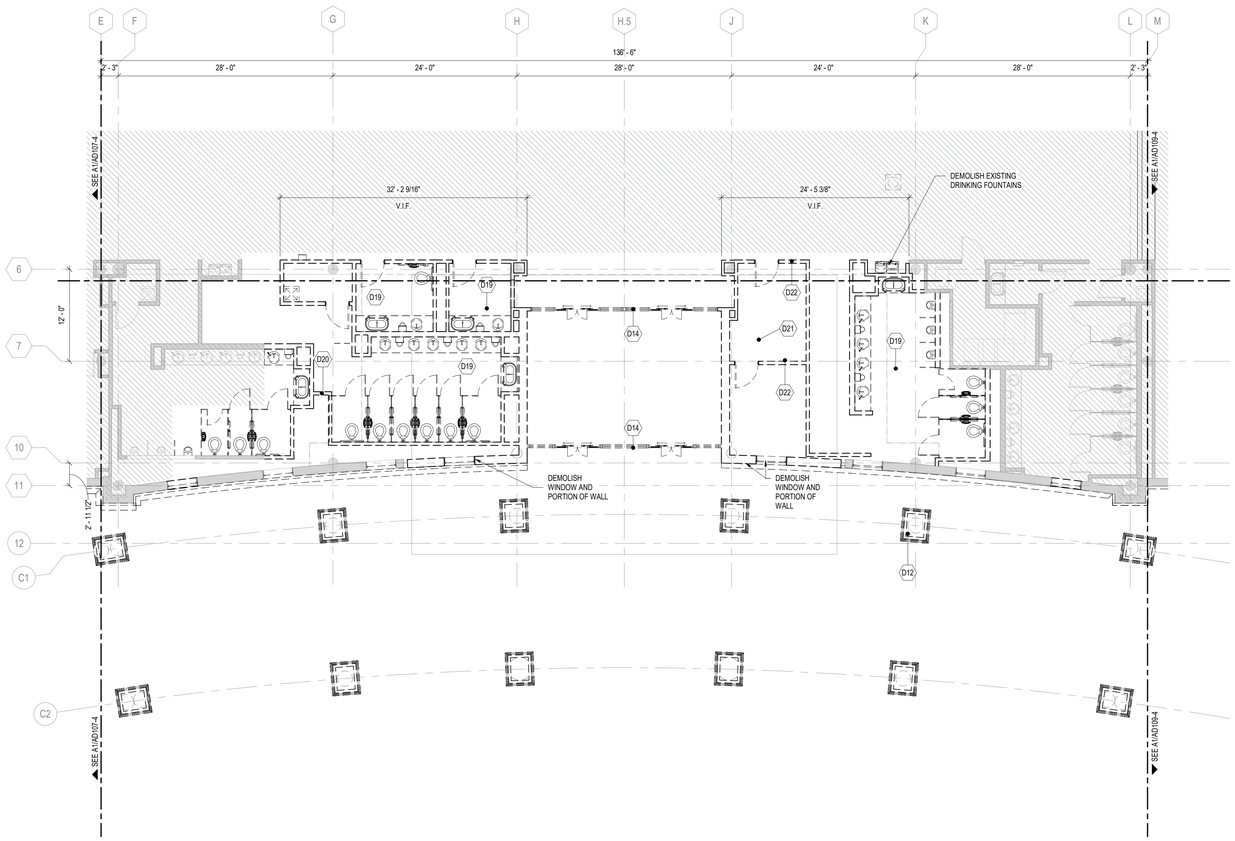

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A1 PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA B

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

DEMOLITION PLAN LEGEND

PARTITION LEGEND

- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO REMAIN
- AREA NOT IN CONTRACT (NIC) U.N.O.
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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D12	DEMOLISH EXISTING BRICK COLUMNS IN ENTIRETY IN PREP FOR NEW COLUMNS.
D14	DEMOLISH EXISTING GLAZING AND SLIDING DOORS.
D19	DEMOLISH EXISTING RESTROOMS INCLUDING PARTITIONS, DOORS, WALL AND FLOOR FINISHES, CEILINGS, PLUMBING FIXTURES AND TOILET ACCESSORIES. PATCH AND REPAIR AS NEEDED IN PREPARATION FOR NEW FINISHES.
D20	DEMOLISH EXISTING PARTITIONS, PATCH AND REPAIR AS NEEDED.
D21	DEMOLISH EXISTING FLOOR SLAB.
D22	DEMOLISH EXISTING WALL AND DOOR, PATCH AND REPAIR AS NEEDED.

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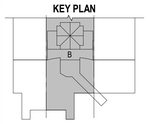
KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 1003-0070-004

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SHEET TITLE:
PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA B

SHEET ID:
AD108-4

PROJECT STATUS:
100% BID SET

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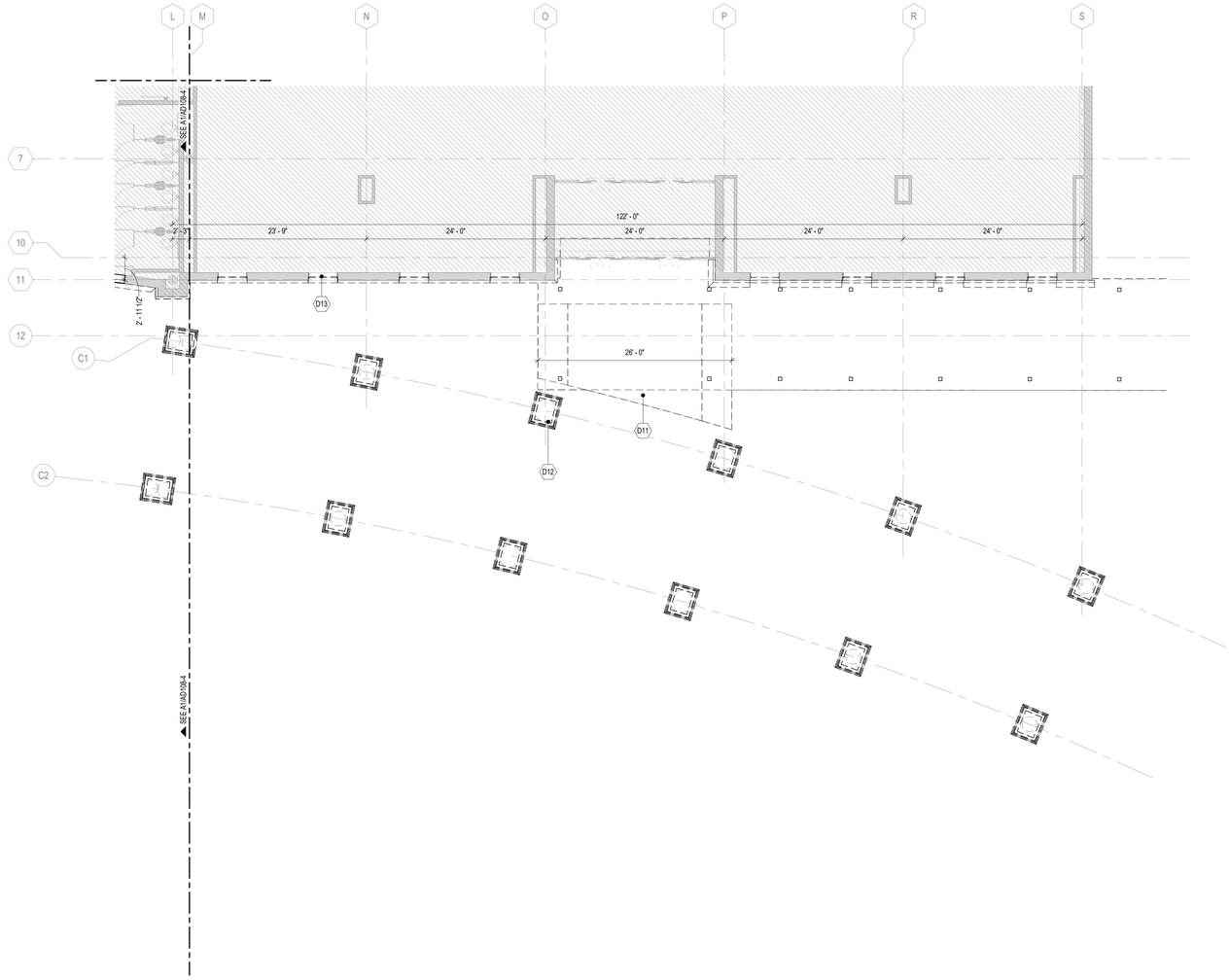

PN

A1 PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA C

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

DEMOLITION PLAN LEGEND

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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D11	DEMOLISH CONCRETE SLAB IN PREP FOR NEW SLAB.
D12	DEMOLISH EXISTING BRICK COLUMNS IN ENTIRETY IN PREP FOR NEW COLUMNS.
D13	DEMOLISH EXISTING WINDOWS AND PREPARE FOR NEW WINDOWS PER NEW WORK PLANS.

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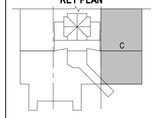
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER:
1003-0070-004

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SEAL:

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SHEET TITLE:
PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA C

SHEET ID:
AD109-4

PROJECT STATUS:
100% BID SET

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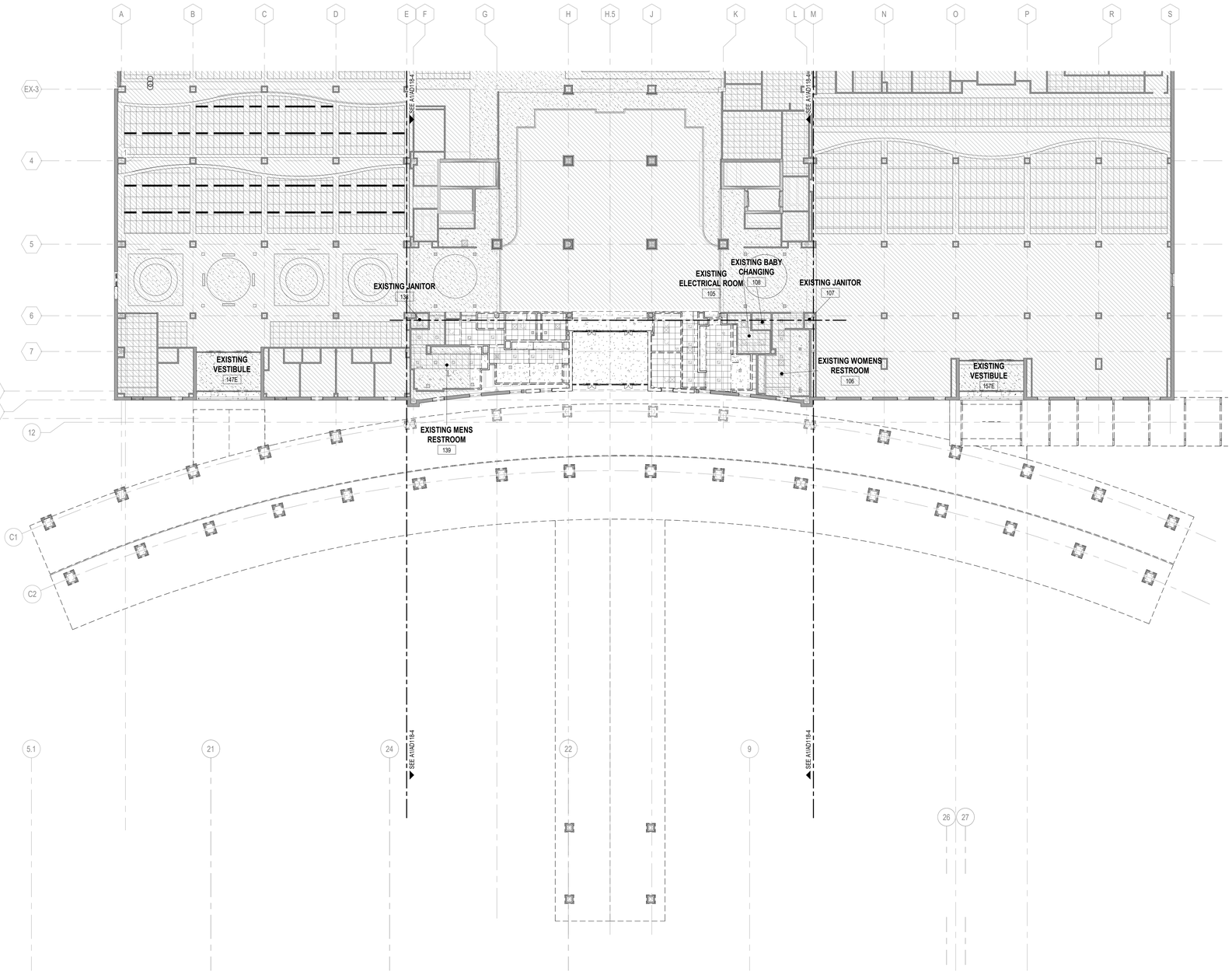

PN

A1 OVERALL TICKET LEVEL DEMOLITION REFLECTED CEILING PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

DEMOLITION CEILING PLAN LEGEND

CEILING TYPES

- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- 2' X 4' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- 5/8" GWB ON METAL FRAMING
- OPEN TO ABOVE

DEMOLITION PLAN LEGEND

PARTITION LEGEND

- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO REMAIN
- AREA NOT IN CONTRACT (NIC) U.N.O.
- EXISTING CONSTRUCTION TO BE PARTIALLY DEMOLISHED AND/OR REPAIRED, U.N.O.

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO SCHEDULE AND COORDINATE WITH AIRPORT AND TENANTS PRIOR TO BEGINNING DEMOLITION WORK. MAINTAIN EXISTING OPERATIONS, PROTECT EXISTING FINISHES AND EQUIPMENT, AND RESTORE FINISHES AND (EQUIPMENT IF DAMAGED) REMOVED OR DAMAGED AS PART OF THE WORK OF THIS PROJECT.
2. NEITHER THE A/E OR OWNER GUARANTEE THE ACCURACY OF THE EXISTING CONDITIONS DEFINED WITHIN THE CONTRACT DOCUMENTS OR RECORD DRAWINGS. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS.
3. DEMOLITION WORK MUST BE PHASED TO ACCOMMODATE NEW WORK. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATION AND SEQUENCING NEW AND DEMO WORK (SEE PHASING DIAGRAMS), IN ORDER TO PROVIDE A FINISHED AND OCCUPIED /USEABLE SPACE AT THE COMPLETION OF EACH PHASE OF THE WORK.
4. ALL DEMOLITION WORK, TEMPORARY REMOVAL OF EXISTING ELEMENTS, AND REINSTALLATION OF TEMPORARILY REMOVED ELEMENTS, FOR INSTALLATION OF NEW WORK MUST BE INCLUDED IN THE GENERAL CONTRACTOR'S BID. ANY STRUCTURAL FRAMING TO BE DEMOLISHED BY GENERAL CONTRACTOR MUST BE REVIEWED IN THE FIELD BY THE STRUCTURAL ENGINEER PRIOR TO DEMO WORK PROCEEDING, AS PART OF PRE-DEMOLITION MEETING.
5. WHEN ITEMS ARE SHOWN AS DEMOLISHED, ALL ASSOCIATED ABANDONED CONDUIT, WIRE HANGERS, STRAPS, AND SUPPORTS MUST ALSO BE REMOVED.
6. EXISTING UTILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION. G.C. MUST NOTIFY THE AIRPORT AUTHORITY OF ANY DISRUPTIONS 72 HOURS IN ADVANCE AND PROVIDE INTERIM UTILITIES AS REQUIRED.
7. REFERENCE OTHER DISCIPLINES -STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM, DATA, FIRE SPRINKLERS, ETC., FOR ADDITIONAL DEMOLITION REQUIREMENTS.
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14. REMOVE ALL EXISTING CEILINGS, LIGHT FIXTURES, DUCTWORK AND DIFFUSERS IN THE AREA OF DEMOLITION U.N.O.
15. COORDINATE WITH OWNER'S REPRESENTATIVE FOR PROCEDURES REGARDING HANDLING OF DEBRIS, CONSTRUCTION MATERIALS AND EQUIPMENT.
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28. SCHEDULE WITH THE BUILDING OWNER OR HIS REPRESENTATIVE FOR ANY CONSTRUCTION WORK THAT MAY DISTURB ADJACENT BUILDING TENANTS IN ANY WAY DURING NORMAL BUSINESS HOURS.
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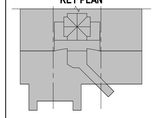
KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
1003-0070-004

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SEAL:

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SHEET TITLE:
OVERALL TICKET LEVEL DEMOLITION REFLECTED CEILING PLAN

SHEET ID:
AD116-4

PROJECT STATUS:
100% BID SET

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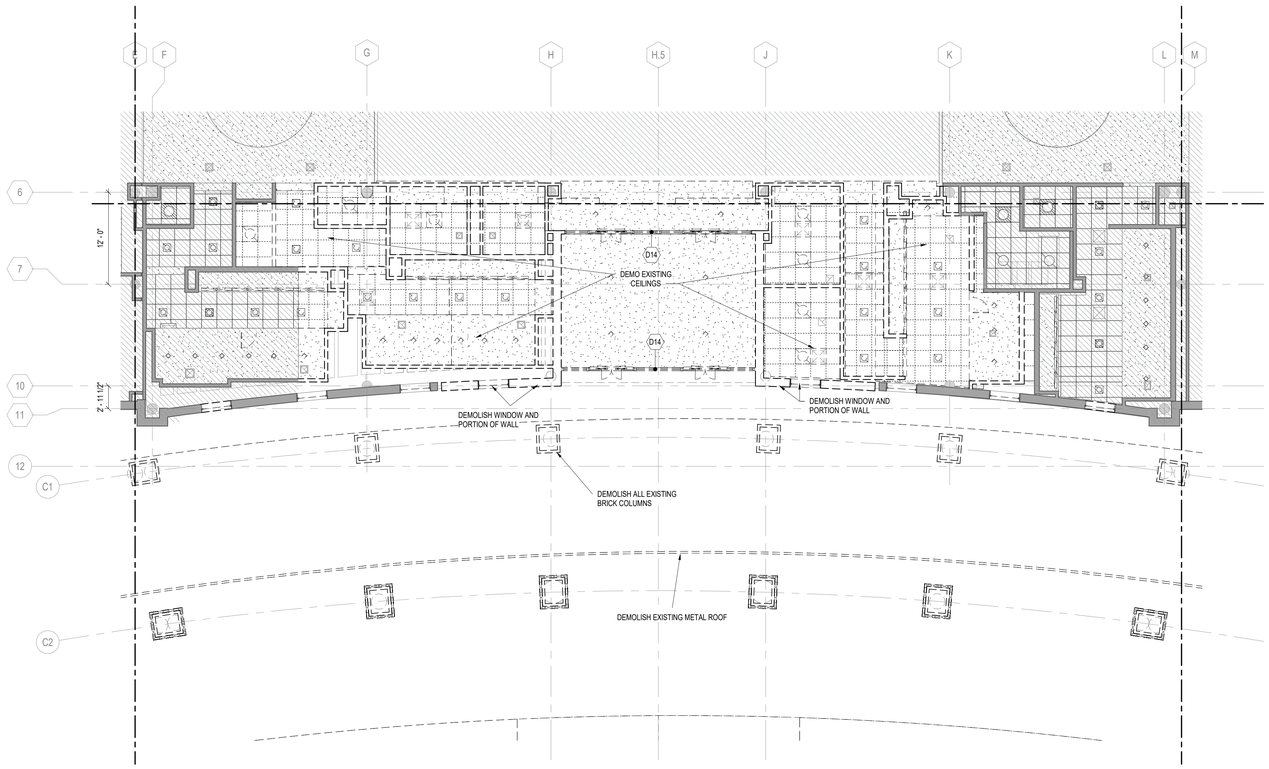

PN

A1 PARTIAL TICKET LEVEL DEMOLITION REFLECTED CEILING PLAN - AREA B

SCALE: 1/8" = 1'-0"

DEMOLITION CEILING PLAN LEGEND

CEILING TYPES

- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- 2' X 4' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- 5/8" GWB ON METAL FRAMING
- OPEN TO ABOVE

DEMOLITION PLAN LEGEND

PARTITION LEGEND

- EXISTING CONSTRUCTION TO BE DEMOLISHED
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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D14	DEMOLISH EXISTING GLAZING AND SLIDING DOORS.

8 0 8 16

SCALE: 1/8" = 1'-0"

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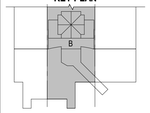

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 1003-0070-004

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SEAL:

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SHEET TITLE:
PARTIAL TICKET LEVEL DEMOLITION REFLECTED CEILING PLAN - AREA B

SHEET ID:
AD118-4

PROJECT STATUS:
100% BID SET

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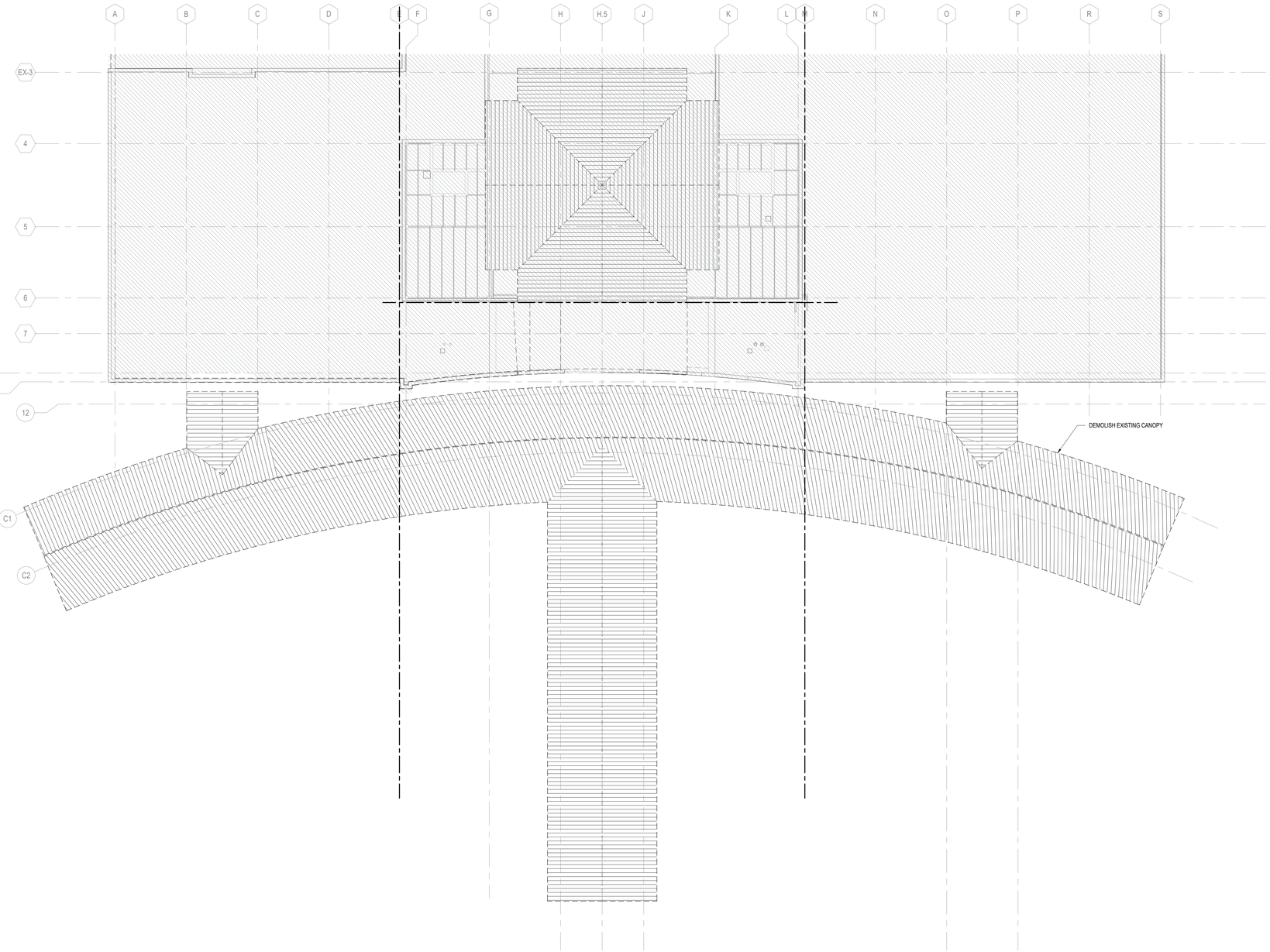

PN

N

A1 OVERALL ROOF DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

DEMOLITION PLAN LEGEND

PARTITION LEGEND

- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO REMAIN
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27. PAINT TO BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS OVER PROPERLY PREPARED SURFACES. SURFACES TO BE STRAIGHT AND SMOOTH. PROVIDE MINIMUM ONE COAT PRIME AND ONE FINISH COAT. FINISH COAT TO COMPLETELY COVER WITH NO STREAKING OR BLEEDING OF UNDERCOATS.
28. SCHEDULE WITH THE BUILDING OWNER OR HIS REPRESENTATIVE FOR ANY CONSTRUCTION WORK THAT MAY DISTURB ADJACENT BUILDING TENANTS IN ANY WAY DURING NORMAL BUSINESS HOURS.
29. LIFE-SAFETY SYSTEMS TO BE OPERATIONAL AT THE END OF EACH WORKDAY THROUGHOUT THE CONSTRUCTION PERIOD (NOT ONLY DURING DEMOLITION).
30. REQUIRED EXITS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING ALTERATIONS TO ANY BUILDING UNLESS PERMITTED BY SECTION 3302.1 NCBC.

16 0 16 32

SCALE: 1/16" = 1'-0"

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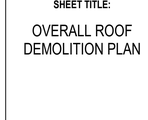
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER:
1003-0070-004

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SEAL:

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SHEET TITLE:
OVERALL ROOF DEMOLITION PLAN

SHEET ID:
AD121-4

PROJECT STATUS:
100% BID SET

3/14/2025 8:38:05 PM Autodesk Docs://1003007004_ILM TCH Rdwy Inf Imprv Design/1003007004_ILM_TCH Terminal and Tunnel_A_R24.rvt

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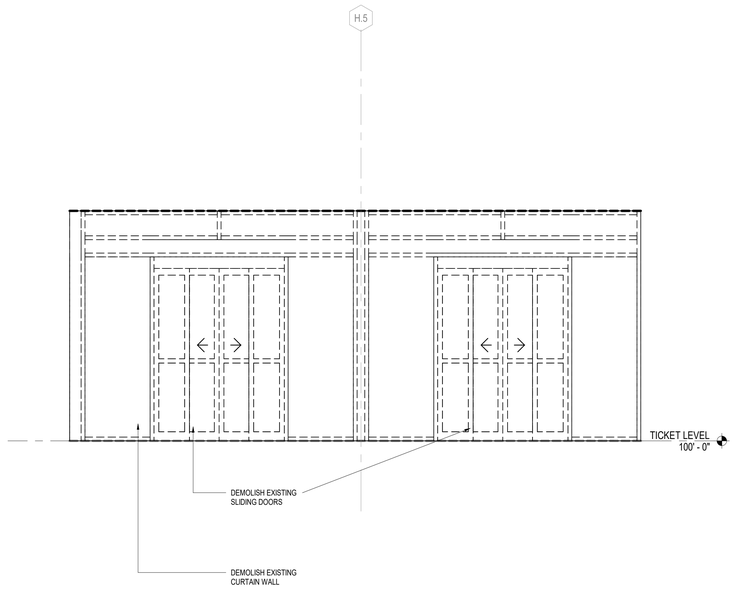
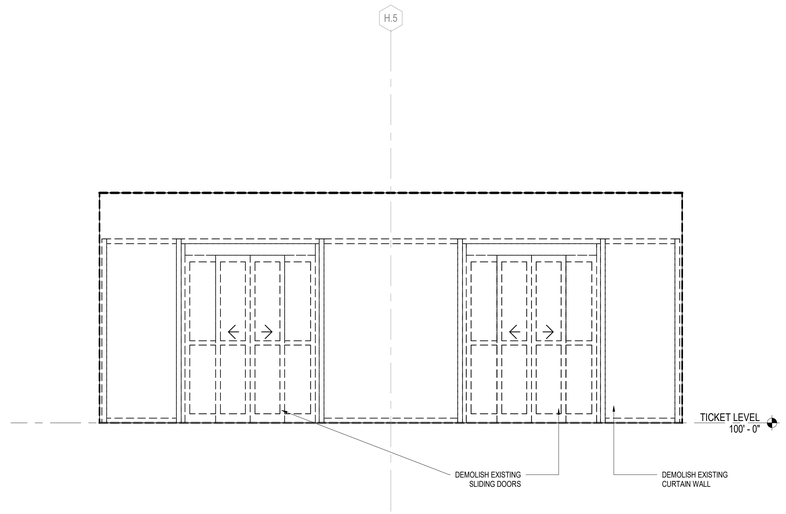


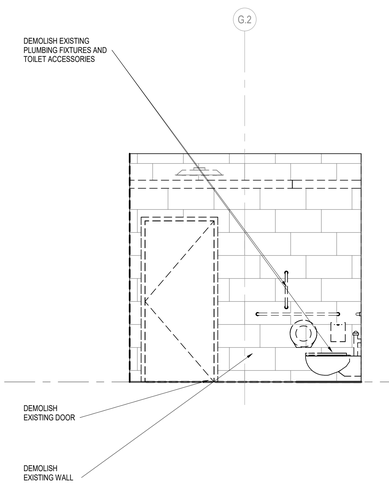
D1 VESTIBULE NORTH DEMOLITION ELEVATION

SCALE: 3/8" = 1'-0"



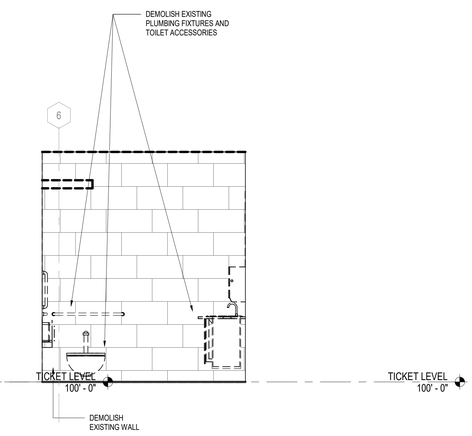
D2 VESTIBULE SOUTH DEMOLITION ELEVATION

SCALE: 3/8" = 1'-0"



C1 RESTROOM NORTH DEMOLITION ELEVATION

SCALE: 3/8" = 1'-0"



C2 RESTROOM EAST DEMOLITION ELEVATION

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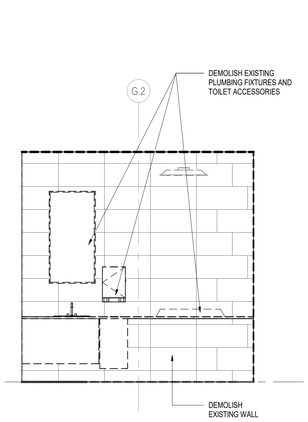
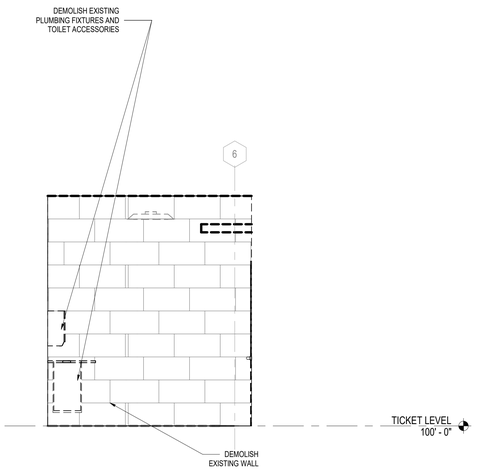


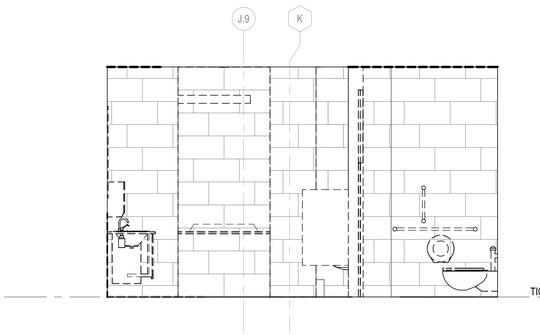
C3 RESTROOM SOUTH DEMOLITION ELEVATION

SCALE: 3/8" = 1'-0"



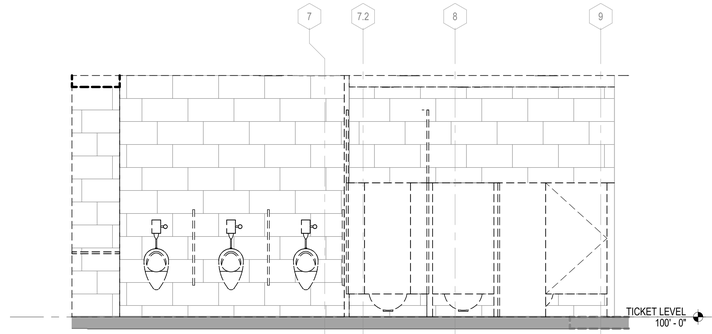
C4 RESTROOM WEST DEMOLITION ELEVATION

SCALE: 3/8" = 1'-0"



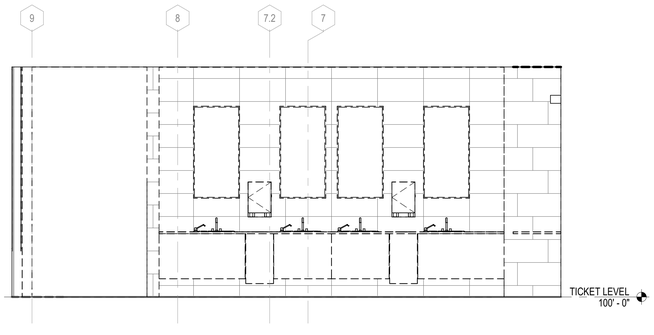
B1 RESTROOM NORTH DEMOLITION ELEVATION

SCALE: 3/8" = 1'-0"



B2 RESTROOM EAST DEMOLITION ELEVATION

SCALE: 3/8" = 1'-0"



B3 RESTROOM WEST DEMOLITION ELEVATION

SCALE: 3/8" = 1'-0"

2 0 2 4 6

SCALE: 3/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO SCHEDULE AND COORDINATE WITH AIRPORT AND TENANTS PRIOR TO BEGINNING DEMOLITION WORK. MAINTAIN EXISTING OPERATIONS, PROTECT EXISTING FINISHES AND EQUIPMENT, AND RESTORE FINISHES AND (EQUIPMENT IF DAMAGED) REMOVED OR DAMAGED AS PART OF THE WORK OF THIS PROJECT.
2. NEITHER THE A/E OR OWNER GUARANTEE THE ACCURACY OF THE EXISTING CONDITIONS DEFINED WITHIN THE CONTRACT DOCUMENTS OR RECORD DRAWINGS. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS.
3. DEMOLITION WORK MUST BE PHASED TO ACCOMMODATE NEW WORK. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATION AND SEQUENCING NEW AND DEMO WORK (SEE PHASING DIAGRAMS), IN ORDER TO PROVIDE A FINISHED AND OCCUPIED /USEABLE SPACE AT THE COMPLETION OF EACH PHASE OF THE WORK.
4. ALL DEMOLITION WORK, TEMPORARY REMOVAL OF EXISTING ELEMENTS, AND REINSTALLATION OF TEMPORARILY REMOVED ELEMENTS, FOR INSTALLATION OF NEW WORK MUST BE INCLUDED IN THE GENERAL CONTRACTOR'S BID. ANY STRUCTURAL FRAMING TO BE DEMOLISHED BY GENERAL CONTRACTOR MUST BE REVIEWED IN THE FIELD BY THE STRUCTURAL ENGINEER PRIOR TO DEMO WORK PROCEEDING, AS PART OF PRE-DEMOLITION MEETING.
5. WHEN ITEMS ARE SHOWN AS DEMOLISHED, ALL ASSOCIATED ABANDONED CONDUIT, WIRE HANGERS, STRAPS, AND SUPPORTS MUST ALSO BE REMOVED.
6. EXISTING UTILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION. G.C. MUST NOTIFY THE AIRPORT AUTHORITY OF ANY DISRUPTIONS 72 HOURS IN ADVANCE AND PROVIDE INTERIM UTILITIES AS REQUIRED.
7. REFERENCE OTHER DISCIPLINES -STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM, DATA, FIRE SPRINKLERS, ETC., FOR ADDITIONAL DEMOLITION REQUIREMENTS.
8. THE AIRPORT/AIRLINE OPERATIONS MUST BE MAINTAINED AT ALL TIMES; THE CONTRACTOR'S WORK MAY BE INTERRUPTED IF AIRPORT/AIRLINE OPERATIONS ARE IMPACTED; THE CONTRACTOR'S SCHEDULE & SEQUENCE OF WORK MUST BE COORDINATED WITH THE AIRPORT & AIRLINES.
9. THE CONTRACTOR IS TO PROTECT EXISTING FINISHES, AND MAKE REPAIRS TO THE EXISTING FINISHES AND FIRE PROOFING WHERE DAMAGED OR REQUIRED FOR UNDER SLAB WORK AND CORES, AS PART OF THE NEW WORK ASSOCIATED WITH THIS PROJECT.
10. NOTES APPEAR ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.
11. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR OTHER APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
12. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
13. DEMOLITION NOTES ARE TO DEFINE INTENT. DEMOLITION MUST INCLUDE ALL ITEMS INDICATED ON THE PLANS AND ALL OTHER ITEMS REQUIRED TO BE DEMOLISHED IN ORDER TO ACCOMPLISH NEW CONSTRUCTION AND FINISHES INDICTED ELSEWHERE ON THE ENTIRE SET OF CONTRACT DOCUMENTS. ALL CONTRACTOR(S), SUBCONTRACTORS AND VENDORS MUST FIELD VERIFY ALL PRIOR TO DEMOLITION.
14. REMOVE ALL EXISTING CEILINGS, LIGHT FIXTURES, DUCTWORK AND DIFFUSERS IN THE AREA OF DEMOLITION U.N.O.

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	

1003-0070-004

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SHEET TITLE:

DEMOLITION ELEVATIONS

SHEET ID:

AD201-4

PROJECT STATUS:
100% BID SET

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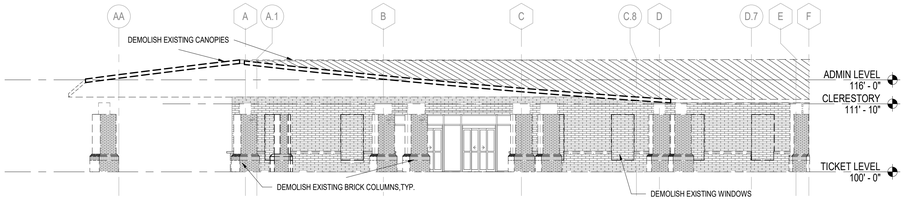
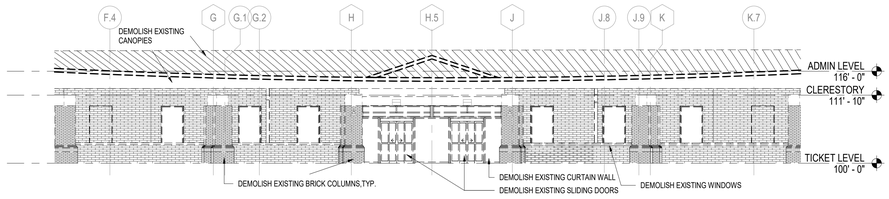


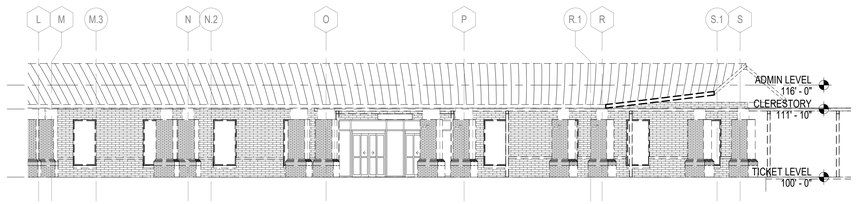
C1 BUILDING SOUTH DEMOLITION ELEVATION- AREA A

SCALE: 3/32" = 1'-0"



B1 BUILDING SOUTH DEMOLITION ELEVATION- AREA B

SCALE: 3/32" = 1'-0"



A1 BUILDING SOUTH DEMOLITION ELEVATION- AREA C

SCALE: 3/32" = 1'-0"

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO SCHEDULE AND COORDINATE WITH AIRPORT AND TENANTS PRIOR TO BEGINNING DEMOLITION WORK. MAINTAIN EXISTING OPERATIONS, PROTECT EXISTING FINISHES AND EQUIPMENT, AND RESTORE FINISHES AND (EQUIPMENT IF DAMAGED) REMOVED OR DAMAGED AS PART OF THE WORK OF THIS PROJECT.
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14. REMOVE ALL EXISTING CEILINGS, LIGHT FIXTURES, DUCTWORK AND DIFFUSERS IN THE AREA OF DEMOLITION U.N.O.

8 0 8 16 24

SCALE: 3/32" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	

1003-0070-004

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SHEET TITLE:

DEMOLITION ELEVATIONS

SHEET ID:

AD202-4

PROJECT STATUS:
100% BID SET

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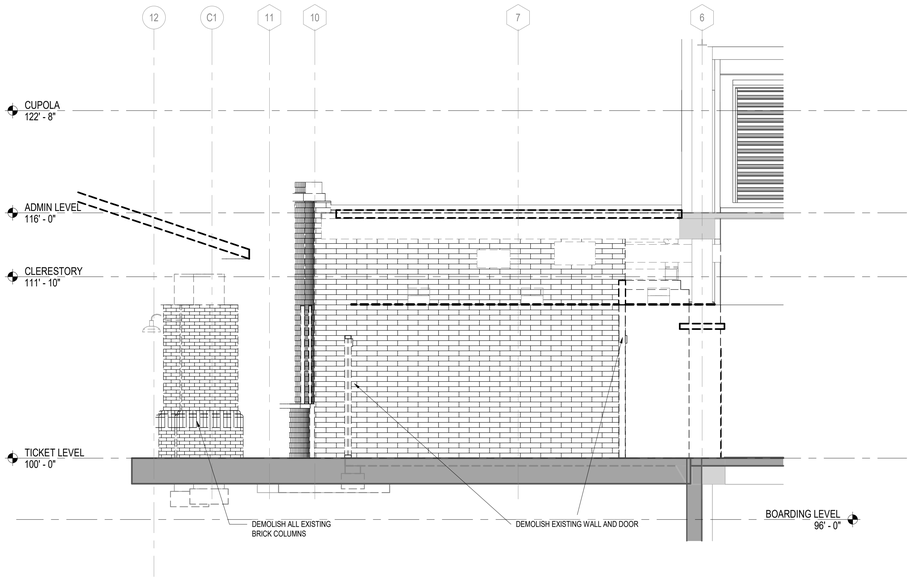
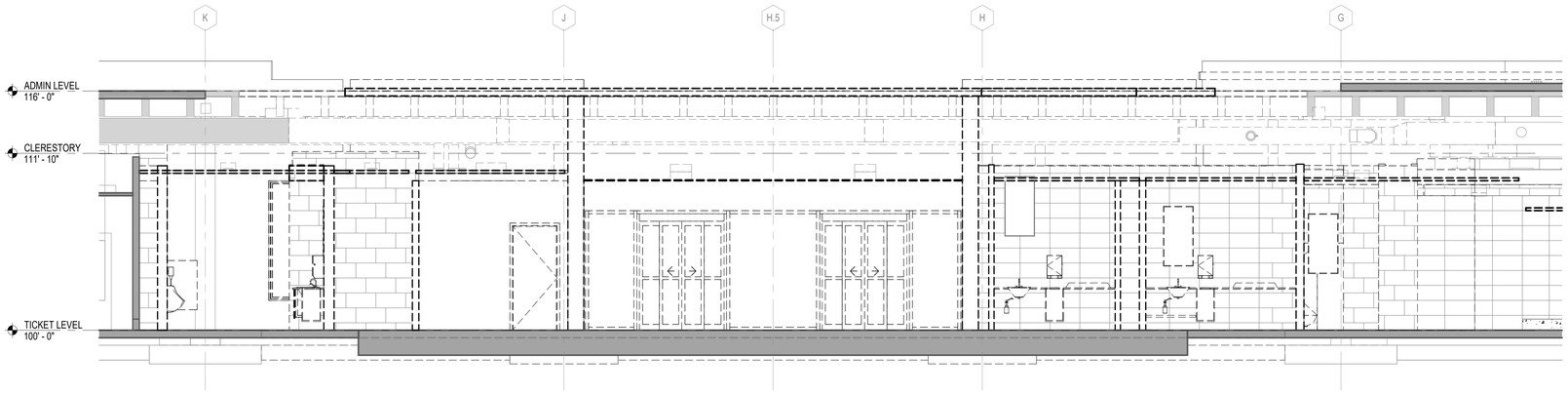


C1 WEST LATITUDE DEMOLITION SECTION

SCALE: 1/4" = 1'-0"



A1 NORTH LATITUDE DEMOLITION SECTION

SCALE: 1/4" = 1'-0"

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4 0 4 8

SCALE: 1/4" = 1'-0"

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F-0493 * C-28

ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER:
1003-0070-004

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SEAL:

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SHEET TITLE:
DEMOLITION BUILDING SECTIONS

SHEET ID:
AD301-4

PROJECT STATUS:
100% BID SET

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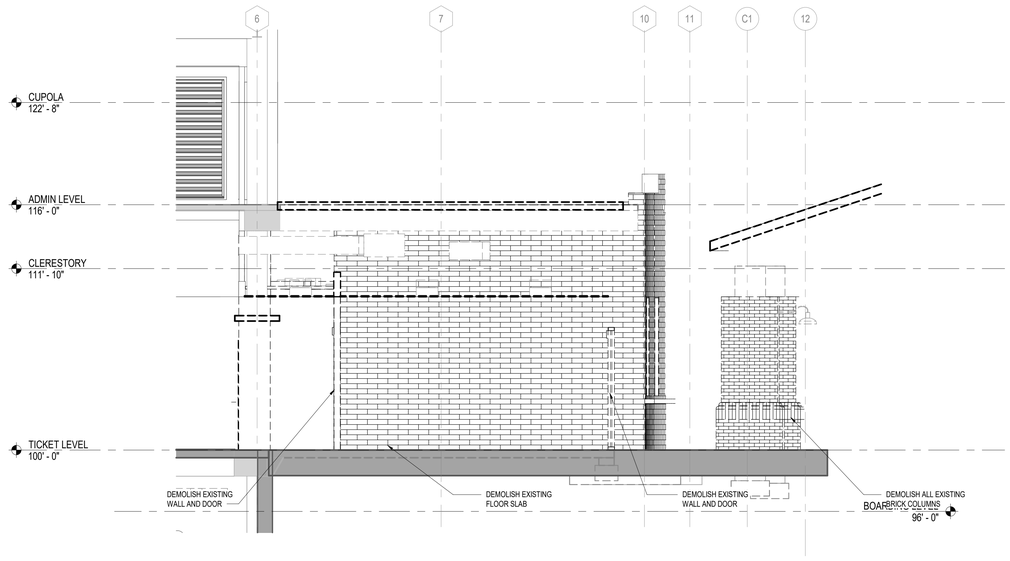
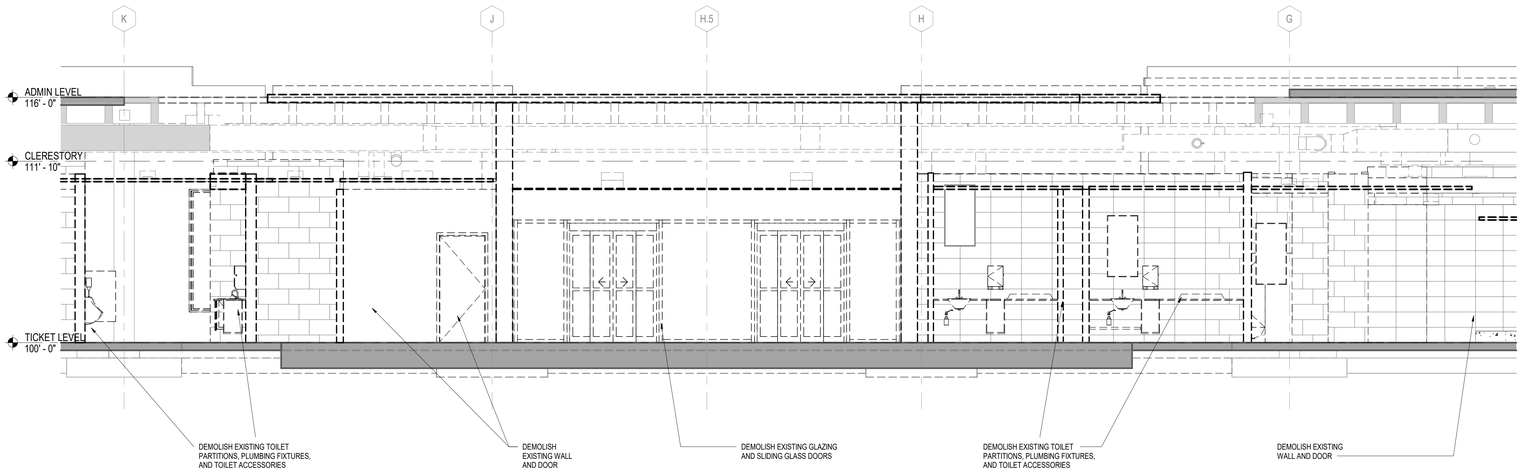


C1 EAST LATITUDE DEMOLITION SECTION

SCALE: 1/4" = 1'-0"



A1 SOUTH LATITUDE DEMOLITION SECTION

SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES

1. CONTRACTOR TO SCHEDULE AND COORDINATE WITH AIRPORT AND TENANTS PRIOR TO BEGINNING DEMOLITION WORK, MAINTAIN EXISTING OPERATIONS, PROTECT EXISTING FINISHES AND EQUIPMENT, AND RESTORE FINISHES AND (EQUIPMENT IF DAMAGED) REMOVED OR DAMAGED AS PART OF THE WORK OF THIS PROJECT.
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5. WHEN ITEMS ARE SHOWN AS DEMOLISHED, ALL ASSOCIATED ABANDONED CONDUIT, WIRE HANGERS, STRAPS, AND SUPPORTS MUST ALSO BE REMOVED.
6. EXISTING UTILITIES ARE TO BE MAINTAINED DURING CONSTRUCTION. G.C. MUST NOTIFY THE AIRPORT AUTHORITY OF ANY DISRUPTIONS 72 HOURS IN ADVANCE AND PROVIDE INTERIM UTILITIES AS REQUIRED.
7. REFERENCE OTHER DISCIPLINES -STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE ALARM, DATA, FIRE SPRINKLERS, ETC., FOR ADDITIONAL DEMOLITION REQUIREMENTS.
8. THE AIRPORT/AIRLINE OPERATIONS MUST BE MAINTAINED AT ALL TIMES; THE CONTRACTOR'S WORK MAY BE INTERRUPTED IF AIRPORT/AIRLINE OPERATIONS ARE IMPACTED; THE CONTRACTOR'S SCHEDULE & SEQUENCE OF WORK MUST BE COORDINATED WITH THE AIRPORT & AIRLINES.
9. THE CONTRACTOR IS TO PROTECT EXISTING FINISHES, AND MAKE REPAIRS TO THE EXISTING FINISHES AND FIRE PROOFING WHERE DAMAGED OR REQUIRED FOR UNDER SLAB WORK AND CORES, AS PART OF THE NEW WORK ASSOCIATED WITH THIS PROJECT.
10. NOTES APPEAR ON VARIOUS DRAWINGS FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.
11. REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR OTHER APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
12. PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
13. DEMOLITION NOTES ARE TO DEFINE INTENT. DEMOLITION MUST INCLUDE ALL ITEMS INDICATED ON THE PLANS AND ALL OTHER ITEMS REQUIRED TO BE DEMOLISHED IN ORDER TO ACCOMPLISH NEW CONSTRUCTION AND FINISHES INDICTED ELSEWHERE ON THE ENTIRE SET OF CONTRACT DOCUMENTS. ALL CONTRACTOR(S), SUBCONTRACTORS AND VENDORS MUST FIELD VERIFY ALL PRIOR TO DEMOLITION.
14. REMOVE ALL EXISTING CEILINGS, LIGHT FIXTURES, DUCTWORK AND DIFFUSERS IN THE AREA OF DEMOLITION U.N.O.

SCALE: 1/4" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
1003-0070-004

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SEAL:

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SHEET TITLE:
DEMOLITION BUILDING SECTIONS

SHEET ID:
AD302-4

PROJECT STATUS:
100% BID SET

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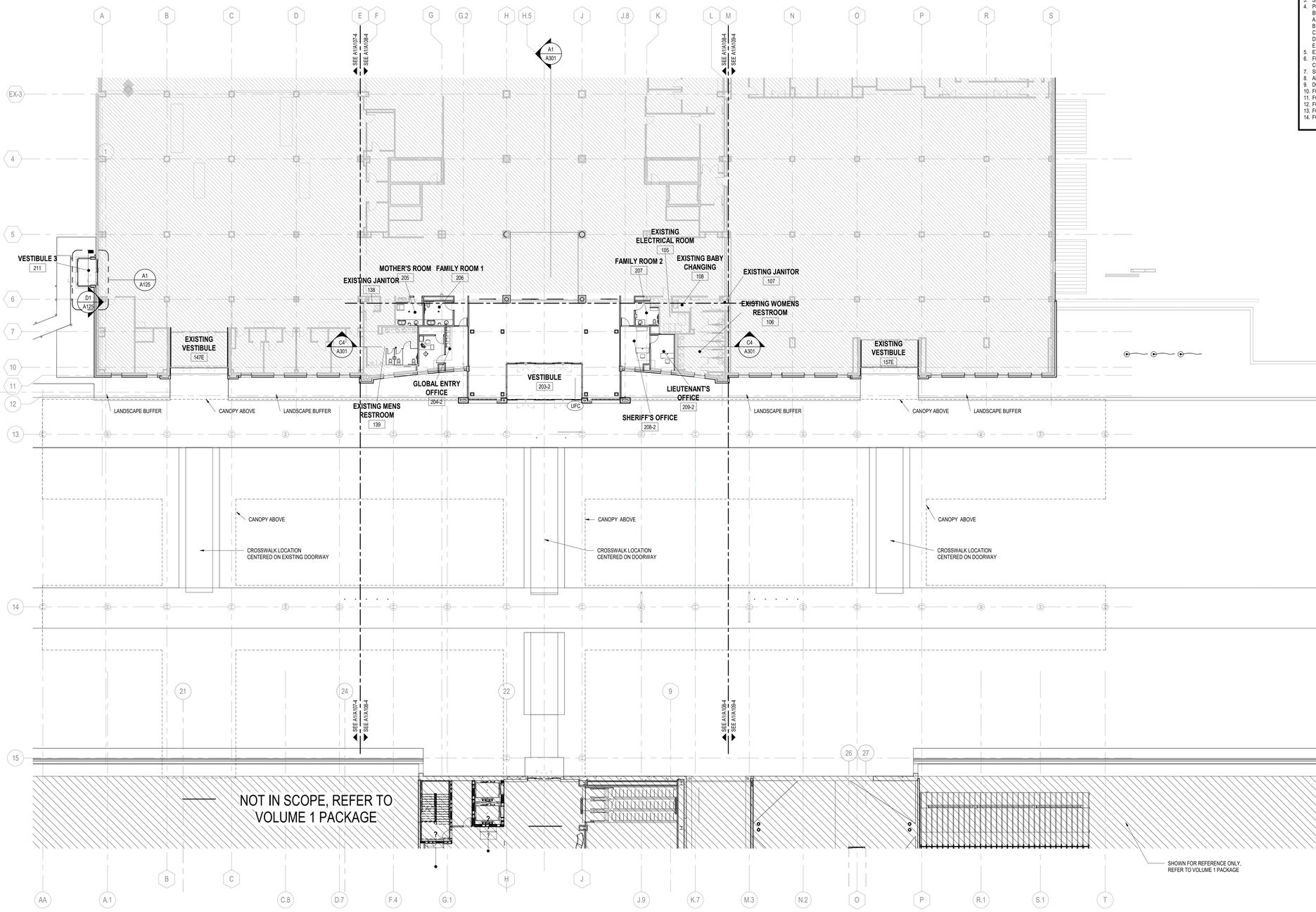

PN

N

A1 OVERALL TICKET LEVEL FLOOR PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

FLOOR PLAN LEGEND & SHEET NOTES

PARTITION LEGEND

- NON-RATED WALL SYSTEM
- PRECAST OR C.I.P. CONCRETE WALL SYSTEM
- CONCRETE MASONRY UNIT WALL SYSTEM
- EXISTING WALL SYSTEM TO REMAIN
- GLAZING TYPE - REFER TO SHEET A610.

NOTE: REFER TO PARTITION TAGS ON PLANS AND PARTITION TYPE DETAILS

- NO WORK IN AREA, U.N.O.
- REFER TO VOLUME 1 PACKAGE
- BID ALTERNATE #1 (EXISTING RESTROOM RENOVATIONS)
- BID ALTERNATE #2 (EXISTING BOH CORRIDOR RENOVATIONS)

GENERAL SHEET NOTES

1. ALL EXTERIOR WALLS TO BE DIMENSIONED TO THE FACE OF SHEATHING OR CONCRETE U.N.O.
2. ALL INTERIOR WALLS TO BE DIMENSIONED TO THE FACE OF STUD U.N.O.
3. SEE ENLARGED PLANS FOR PARTITION TAGS NOT IDENTIFIED ON OVERALL FLOOR PLANS.
4. PROVIDE 5/8" WATER-RESISTANT GWB IN LIEU OF TYPICAL GWB AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO:
   A. RESTROOMS
   B. LOCKER ROOMS
   C. SHOWER AREAS
   D. JANITOR CLOSETS
   E. KITCHEN AREAS
5. EXTEND SMOKE BARRIER PARTITION WALLS TO BOTTOM OF UPPER FLOOR STRUCTURE.
6. FIELD VERIFY ALL DIMENSIONS, REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION.
7. SEAL ALL PENETRATIONS ON EXTERIOR WALLS.
8. ALL PLYWOOD TO BE FIRE TREATED, U.N.O.
9. DOOR FRAMES TO BE LOCATED 4" FROM CORNER OF WALL U.N.O.
10. FOR PLAN DETAILS, SEE SHEETS A501 AND A502.
11. FOR DOOR AND WINDOW DETAILS, SEE SHEETS A603, A604 AND A606.
12. FOR VERTICAL CIRCULATION DETAILS, SEE SHEET A511.
13. FOR SECTION DETAILS, SEE SHEETS A503 AND A504.
14. FOR COLUMN DETAILS, SEE SHEET A505.

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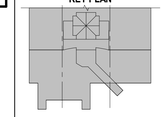
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	SG
DRAWN BY:	Author
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SEAL:

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SHEET TITLE:
OVERALL TICKET LEVEL FLOOR PLAN

SHEET ID:
A106-4

PROJECT STATUS:
100% BID SET

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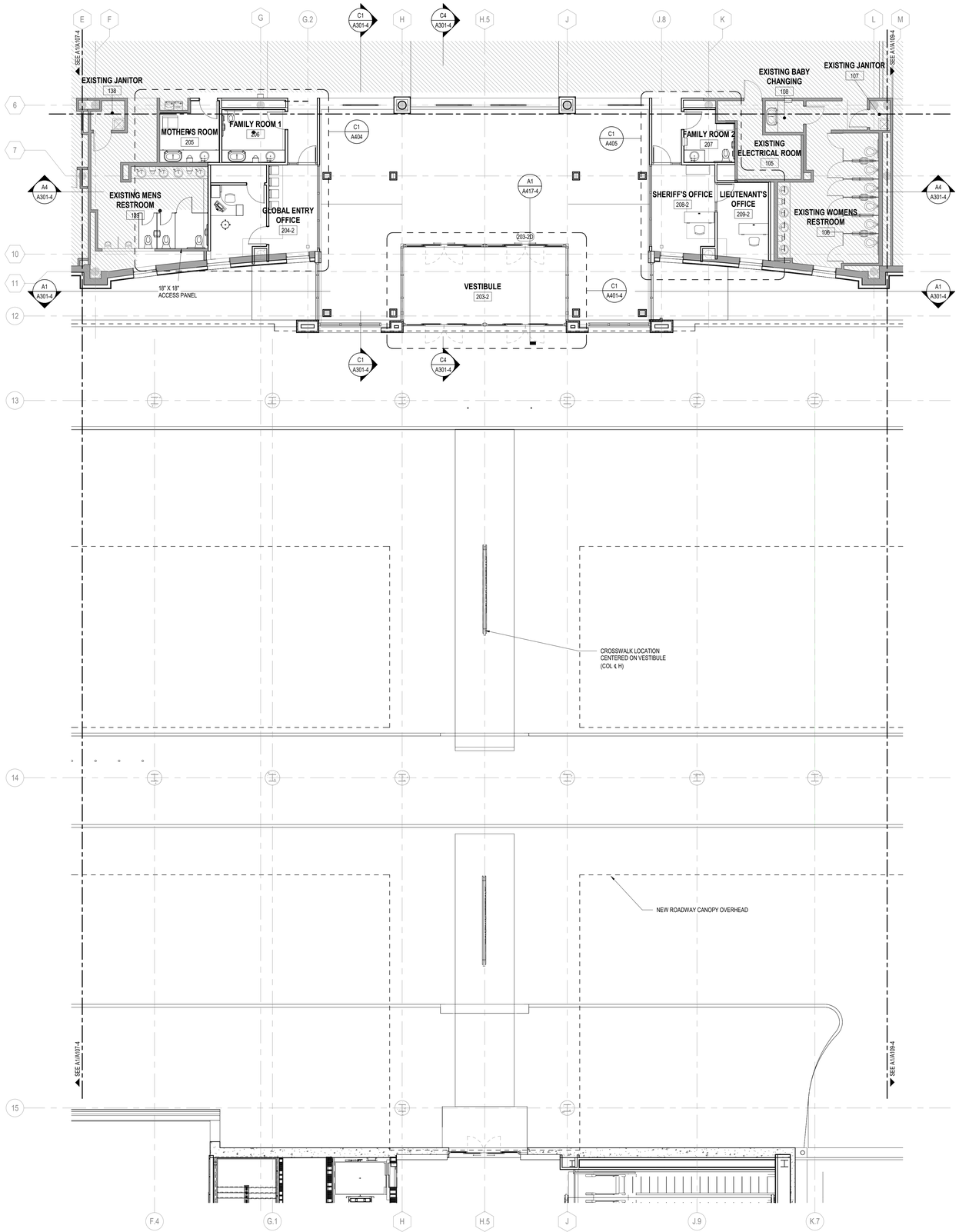

A1 PARTIAL TICKET LEVEL FLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND & SHEET NOTES

PARTITION LEGEND

- NON-RATED WALL SYSTEM
- PRECAST OR C.I.P. CONCRETE WALL SYSTEM
- CONCRETE MASONRY UNIT WALL SYSTEM
- EXISTING WALL SYSTEM TO REMAIN
- GLAZING TYPE - REFER TO SHEET A610.

NOTE: REFER TO PARTITION TAGS ON PLANS AND PARTITION TYPE DETAILS

- NO WORK IN AREA, U.N.O.
- REFER TO VOLUME 1 PACKAGE
- BID ALTERNATE #1 (EXISTING RESTROOM RENOVATIONS)
- BID ALTERNATE #2 (EXISTING BOH CORRIDOR RENOVATIONS)

GENERAL SHEET NOTES

1. ALL EXTERIOR WALLS TO BE DIMENSIONED TO THE FACE OF SHEATHING OR CONCRETE U.N.O.
2. ALL INTERIOR WALLS TO BE DIMENSIONED TO THE FACE OF STUD U.N.O.
3. SEE ENLARGED PLANS FOR PARTITION TAGS NOT IDENTIFIED ON OVERALL FLOOR PLANS.
4. PROVIDE 5/8" WATER-RESISTANT GWB IN LIEU OF TYPICAL GWB AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO:
   A. RESTROOMS
   B. LOCKER ROOMS
   C. SHOWER AREAS
   D. JANITOR CLOSETS
   E. KITCHEN AREAS
5. EXTEND SMOKE BARRIER PARTITION WALLS TO BOTTOM OF UPPER FLOOR STRUCTURE.
6. FIELD VERIFY ALL DIMENSIONS, REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION.
7. SEAL ALL PENETRATIONS ON EXTERIOR WALLS.
8. ALL PLYWOOD TO BE FIRE TREATED. U.N.O.
9. DOOR FRAMES TO BE LOCATED 4" FROM CORNER OF WALL U.N.O.
10. FOR PLAN DETAILS, SEE SHEETS A501 AND A502.
11. FOR DOOR AND WINDOW DETAILS, SEE SHEETS A603, A604 AND A606.
12. FOR VERTICAL CIRCULATION DETAILS, SEE SHEET A511.
13. FOR SECTION DETAILS, SEE SHEETS A503 AND A504.
14. FOR COLUMN DETAILS, SEE SHEET A505.

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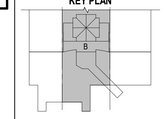
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	SG
DRAWN BY:	Author
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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SEAL:

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SHEET TITLE:
PARTIAL TICKET LEVEL FLOOR PLAN - AREA B

SHEET ID:
A108-4

PROJECT STATUS:
100% BID SET

8 0 8 16
SCALE: 1/8" = 1'-0"

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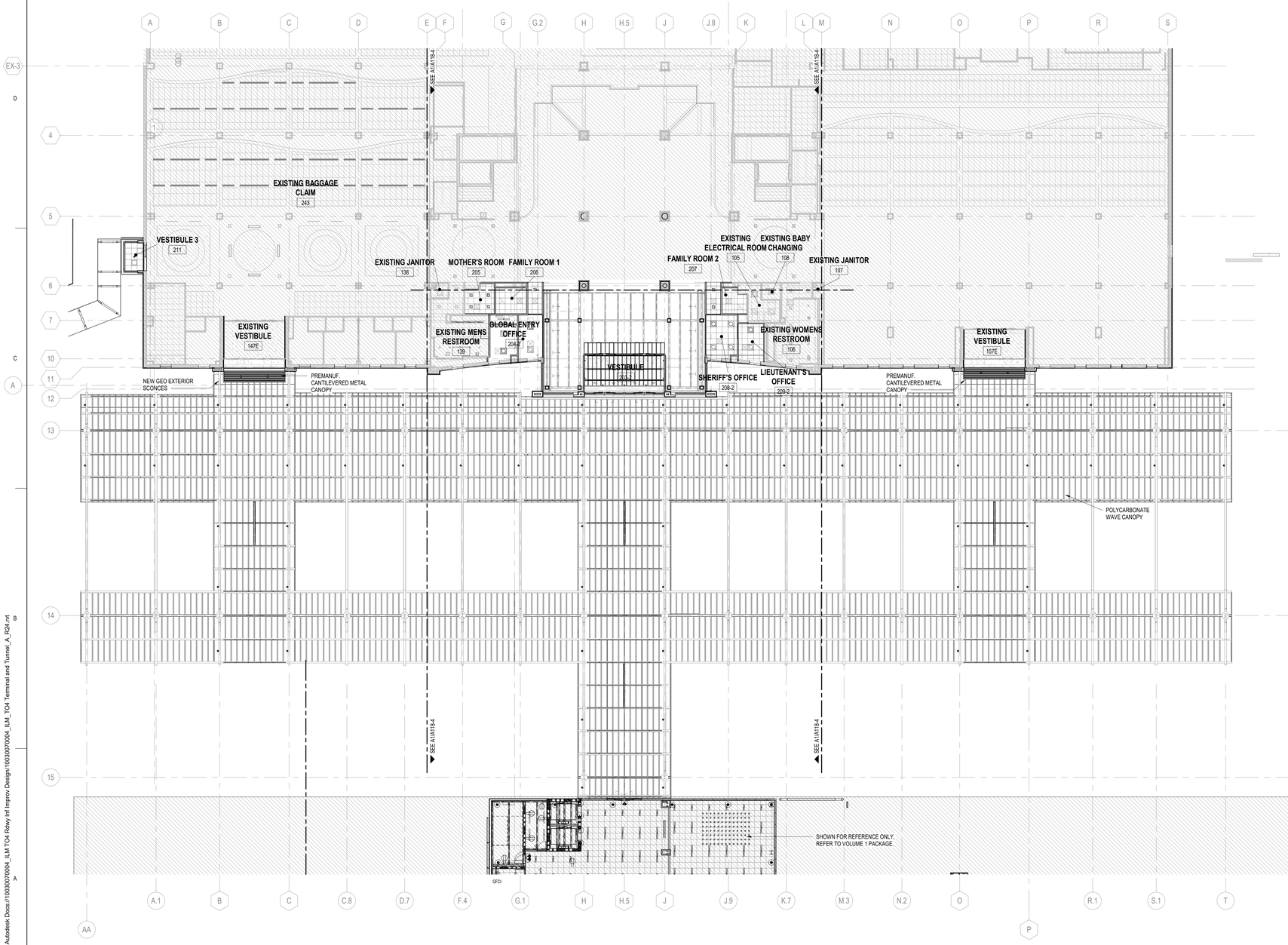

PN

A1 OVERALL TICKET LEVEL REFLECTED CEILING PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

CEILING PLAN LEGEND & SHEET NOTES

NO WORK IN AREA, U.N.O.

REFER TO VOLUME 1 PACKAGE

BID ALTERNATE #1 (EXISTING RESTROOM RENOVATIONS)

BID ALTERNATE #2 (EXISTING BOH CORRIDOR RENOVATIONS)

CEILING TYPES & FIXTURES LEGEND

ACT1: 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM

ACT4: 2' X 6' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM

GWB: 5/8" GWB ON METAL FRAMING

EXP: EXPOSED TO ABOVE

PCP2: SUSPENDED POLYCARBONATE PANEL AND FRAME SYSTEM

4' x 4' FLUORESCENT LIGHT FIXTURE

9' x 4' FLUORESCENT LIGHT FIXTURE

4' x 8' FLUORESCENT LIGHT FIXTURE

2' x 2' FLUORESCENT LIGHT FIXTURE

2' x 2' EMERGENCY FLUORESCENT LIGHT FIXTURE

2' x 2' STANDBY FLUORESCENT LIGHT FIXTURE

1' x 1' FLUORESCENT LIGHT FIXTURE

1' x 1' EMERGENCY FLUORESCENT LIGHT FIXTURE

6" ROUND STANDBY RECESSED CAN LIGHT FIXTURE

6" ROUND RECESSED CAN LIGHT FIXTURE

6" ROUND PENDENT LIGHT FIXTURE

OCCUPANCY SENSOR

EXIT SIGN

2' x 2' SUPPLY AIR DIFFUSER

2' x 2' RETURN AIR GRILLE

2' x 2' EXHAUST AIR GRILLE

6" WALL SCONCE CYLINDER LIGHT FIXTURE

GENERAL SHEET NOTES

1. DEVICES HAVE BEEN SHOWN FOR COORDINATION PURPOSES. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS. CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
2. ALL CEILING MOUNTED DEVICES MUST BE CENTERED IN BOTH DIRECTIONS IN ACOUSTICAL CEILING PANELS U.N.O.
3. CENTER SPRINKLER HEADS IN ACOUSTICAL CEILING PANELS WHERE THEY OCCUR. COORDINATE THE LOCATION OF THE SPRINKLER HEADS WITH OTHER CEILING FIXTURES AND EQUIPMENT IN ALL CEILINGS. ENSURE THAT A SYMMETRICAL AND BALANCED ARRANGEMENT IS INSTALLED. CONTRACTING OFFICER IS TO REVIEW INSTANCES OF NON-EQUAL SPACING PRIOR TO INSTALLATION.
4. ALL NEW GYP. SOFFITS TO BE 5/8" TYPE "X" GYP, U.N.O.
5. PROVIDE 5/8" MOISTURE-RESISTANT GWB FOR CEILINGS IN LIEU OF TYPICAL GWB AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO RESTROOMS, JANITOR CLOSETS AND KITCHEN AREAS.
6. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO PLUMBING VALUES AND MECHANICAL DAMPER BALANCE CONTROLS. COORDINATE ALL LOCATIONS WITH TRADES AND ARCHITECT, TYP. ALL ACCESS PANELS TO BE PAINTED TO MATCH ADJACENT SURFACES.

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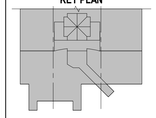
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	SG
DRAWN BY:	Author
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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SEAL:

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SHEET TITLE:
OVERALL TICKET LEVEL REFLECTED CEILING PLAN

SHEET ID:
A116-4

PROJECT STATUS:
100% BID SET

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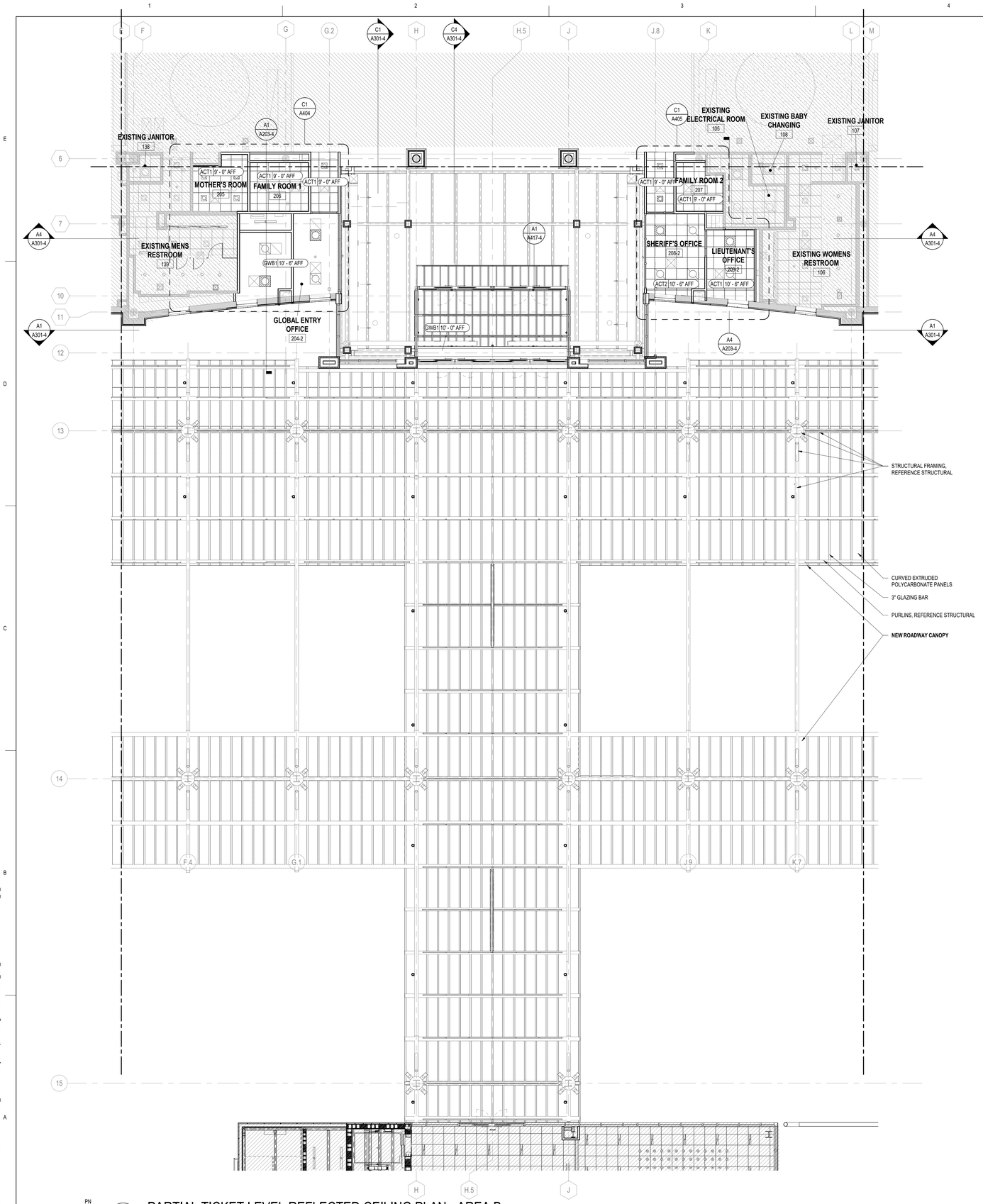

PN

A1 PARTIAL TICKET LEVEL REFLECTED CEILING PLAN - AREA B

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

CEILING PLAN LEGEND & SHEET NOTES

- NO WORK IN AREA, U.N.O.
- REFER TO VOLUME 1 PACKAGE
- BID ALTERNATE #1 (EXISTING RESTROOM RENOVATIONS)
- BID ALTERNATE #2 (EXISTING BOH CORRIDOR RENOVATIONS)

CEILING TYPES & FIXTURES LEGEND

- ACT1: 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- ACT4: 2' X 6' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- GWB: 5/8" GWB ON METAL FRAMING
- EXP: EXPOSED TO ABOVE
- PCP2: SUSPENDED POLYCARBONATE PANEL AND FRAME SYSTEM
- 4" x 4' FLUORESCENT LIGHT FIXTURE
- 9" x 4' FLUORESCENT LIGHT FIXTURE
- 4" x 8' FLUORESCENT LIGHT FIXTURE
- 2' x 2' FLUORESCENT LIGHT FIXTURE
- 2' x 2' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 2' x 2' STANDBY FLUORESCENT LIGHT FIXTURE
- 1' x 1' FLUORESCENT LIGHT FIXTURE
- 1' x 1' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 6" ROUND STANDBY RECESSED CAN LIGHT FIXTURE
- 6" ROUND RECESSED CAN LIGHT FIXTURE
- 6" ROUND PENDENT LIGHT FIXTURE
- OCCUPANCY SENSOR
- EXIT SIGN
- 2' x 2' SUPPLY AIR DIFFUSER
- 2' x 2' RETURN AIR GRILLE
- 2' x 2' EXHAUST AIR GRILLE
- 6" WALL SCONCE CYLINDER LIGHT FIXTURE

GENERAL SHEET NOTES

1. DEVICES HAVE BEEN SHOWN FOR COORDINATION PURPOSES. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS. CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
2. ALL CEILING MOUNTED DEVICES MUST BE CENTERED IN BOTH DIRECTIONS IN ACOUSTICAL CEILING PANELS U.N.O.
3. CENTER SPRINKLER HEADS IN ACOUSTICAL CEILING PANELS WHERE THEY OCCUR. COORDINATE THE LOCATION OF THE SPRINKLER HEADS WITH OTHER CEILING FIXTURES AND EQUIPMENT IN ALL CEILINGS. ENSURE THAT A SYMMETRICAL AND BALANCED ARRANGEMENT IS INSTALLED. CONTRACTING OFFICER IS TO REVIEW INSTANCES OF NON-EQUAL SPACING PRIOR TO INSTALLATION.
4. ALL NEW GYP. SOFFITS TO BE 5/8" TYPE "X" GYP, U.N.O.
5. PROVIDE 5/8" MOISTURE-RESISTANT GWB FOR CEILINGS IN LIEU OF TYPICAL GWB AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO RESTROOMS, JANITOR CLOSETS AND KITCHEN AREAS.
6. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO PLUMBING VALUES AND MECHANICAL DAMPER BALANCE CONTROLS. COORDINATE ALL LOCATIONS WITH TRADES AND ARCHITECT, TYP. ALL ACCESS PANELS TO BE PAINTED TO MATCH ADJACENT SURFACES.

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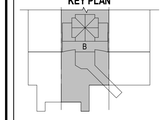
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	SG
DRAWN BY:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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SEAL:

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SHEET TITLE:
PARTIAL TICKET LEVEL REFLECTED CEILING PLAN - AREA B

SHEET ID:
A118-4

PROJECT STATUS:
100% BID SET

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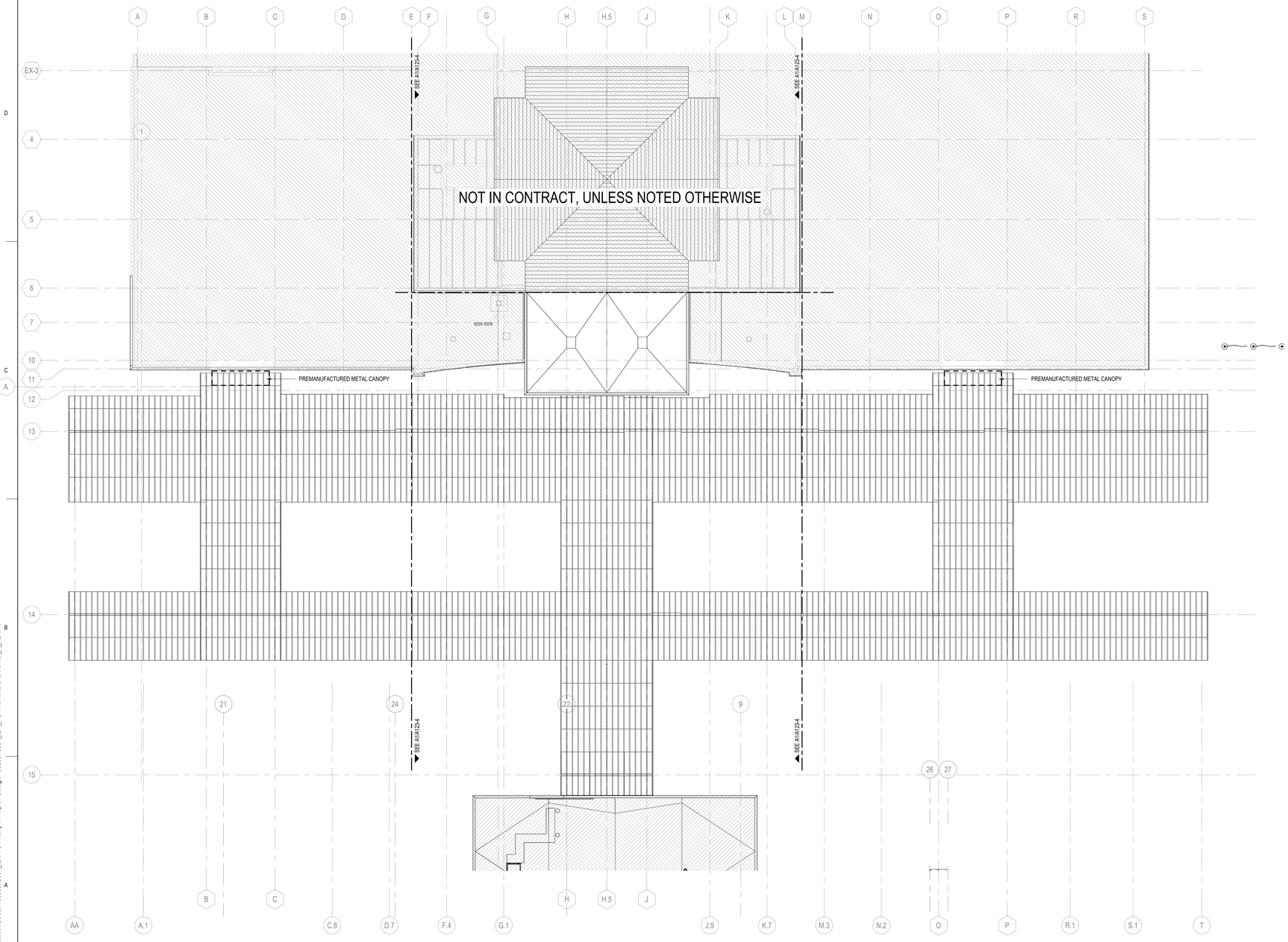
GENERAL ROOF NOTES

1. ALL ROOF PENETRATIONS REQUIRED FOR INSTALLATION OF MECHANICAL UNITS, EQUIPMENT CURBS, VENTS, ETC. MUST BE DONE PER MANUFACTURER'S RECOMMENDATIONS TO ENSURE ALL WARRANTIES ARE MAINTAINED. PROVIDE FLASHING, COUNTERFLASHING, SEALANT, ETC. AS REQUIRED TO PROVIDE WATERPROOF CONDITION, TYPICAL AT ALL ROOF PENETRATIONS.
2. FOR ROOF DETAILS, SEE SHEETS A551 AND A552.
3. FOR DOOR AND WINDOW DETAILS, SEE SHEETS A602, A603 AND A606.
4. FOR COLUMN DETAILS, SEE SHEET A505.
5. FOR SECTION DETAILS, SEE SHEETS A503 AND A504.
6. FOR ROADWAY CANOPY PLAN DETAILS, SEE SHEET A512.



PN

A1 OVERALL ROOF PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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ILM

PROJECT TITLE:
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PROJECT ADDRESS:
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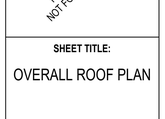
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
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DRAWN BY:	Author
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:
OVERALL ROOF PLAN

SHEET ID:
A121-4

PROJECT STATUS:
100% BID SET

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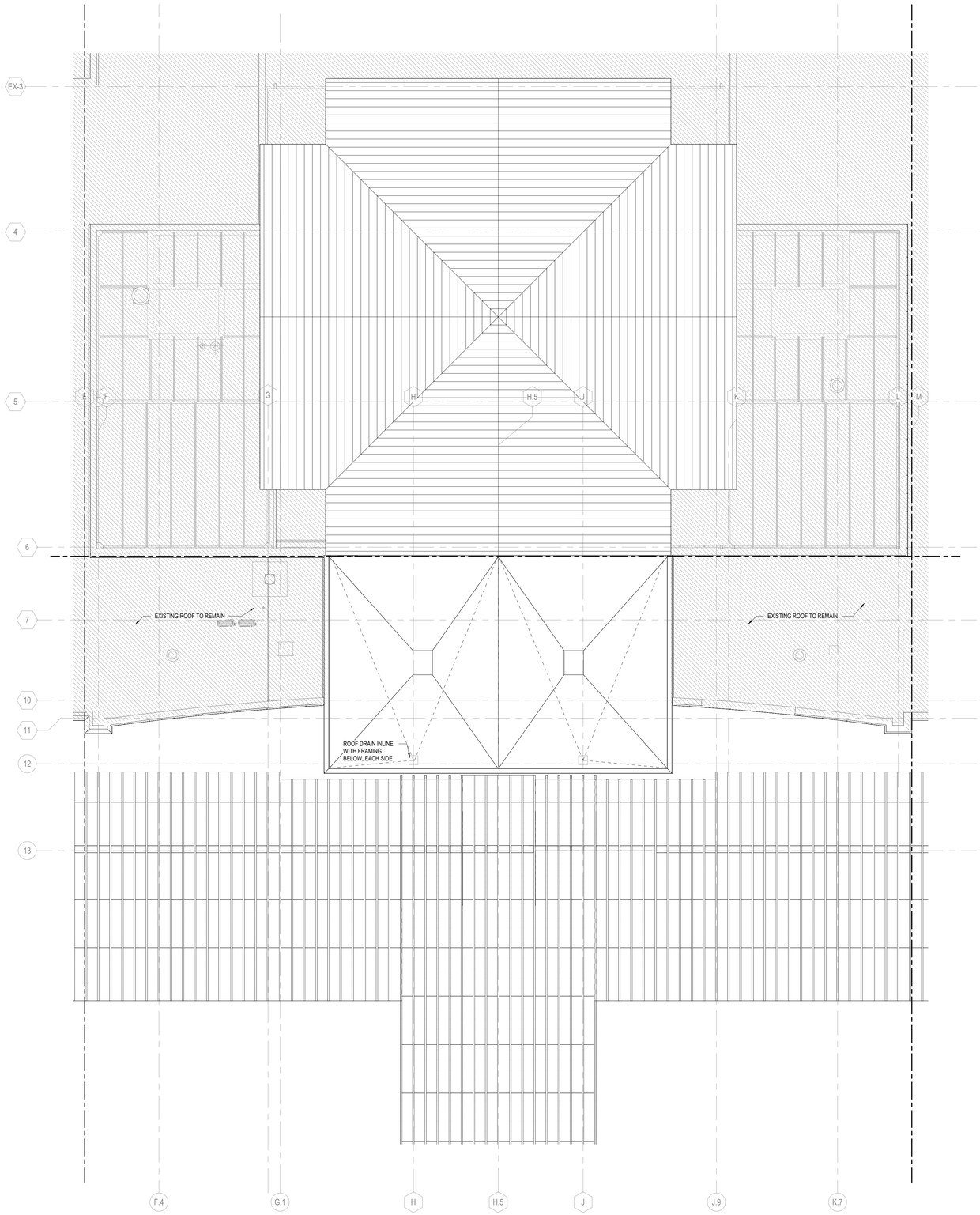

PN

N

A1 PARTIAL ROOF PLAN - AREA B

SCALE: 1/8" = 1'-0"

GENERAL ROOF NOTES

1. ALL ROOF PENETRATIONS REQUIRED FOR INSTALLATION OF MECHANICAL UNITS, EQUIPMENT CURBS, VENTS, ETC. MUST BE DONE PER MANUFACTURER'S RECOMMENDATIONS TO ENSURE ALL WARRANTIES ARE MAINTAINED. PROVIDE FLASHING, COUNTERFLASHING, SEALANT, ETC. AS REQUIRED TO PROVIDE WATERPROOF CONDITION, TYPICAL AT ALL ROOF PENETRATIONS.
2. FOR ROOF DETAILS, SEE SHEETS A551 AND A552.
3. FOR DOOR AND WINDOW DETAILS, SEE SHEETS A602, A603 AND A606.
4. FOR COLUMN DETAILS, SEE SHEET A505.
5. FOR SECTION DETAILS, SEE SHEETS A503 AND A504.
6. FOR ROADWAY CANOPY PLAN DETAILS, SEE SHEET A512.

8 0 8 16

SCALE: 1/8" = 1'-0"

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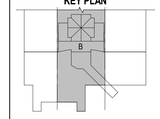
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

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DATE ISSUED:	03/14/2025
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DRAWN BY:	Author
DESIGNED BY:	FG

PROJECT NUMBER:
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SHEET TITLE:
PARTIAL ROOF PLAN - AREA B

SHEET ID:
A123-4

PROJECT STATUS:
100% BID SET

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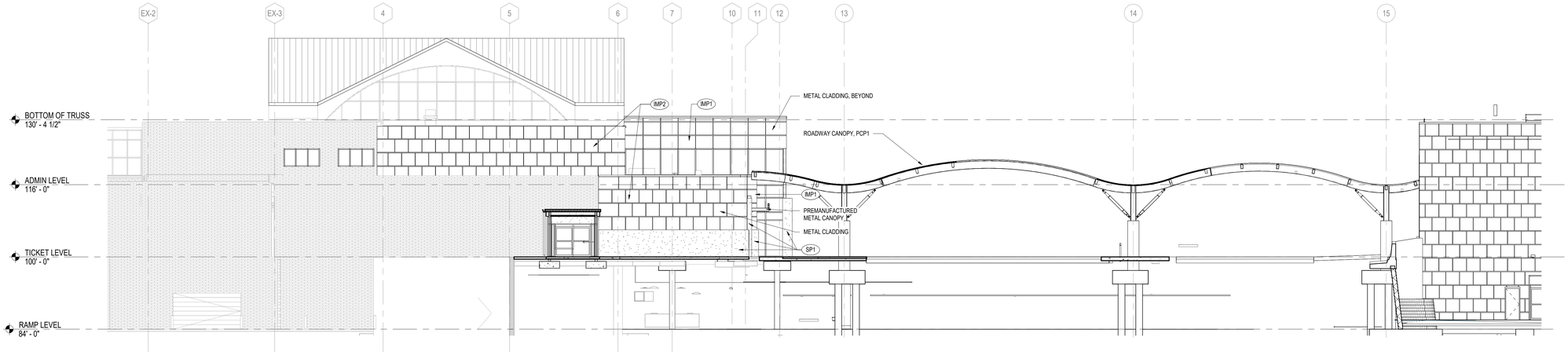
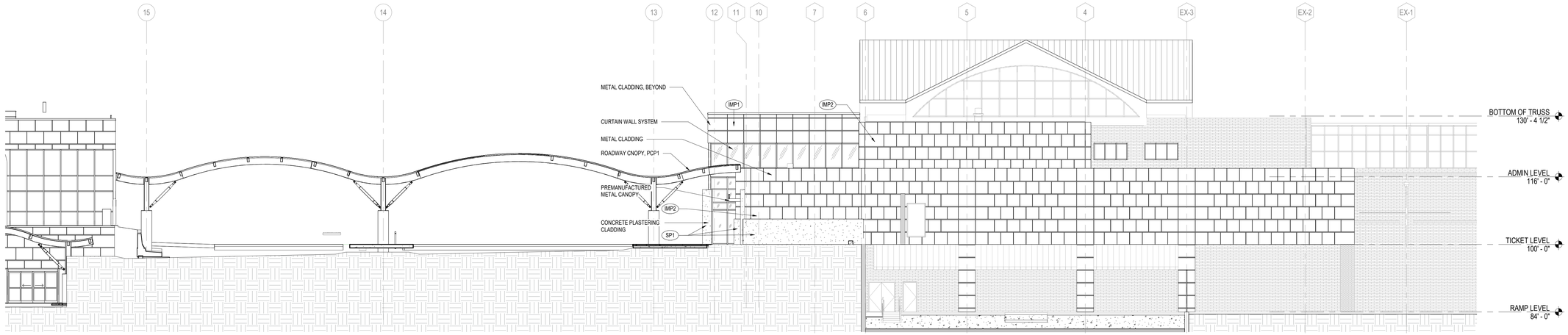


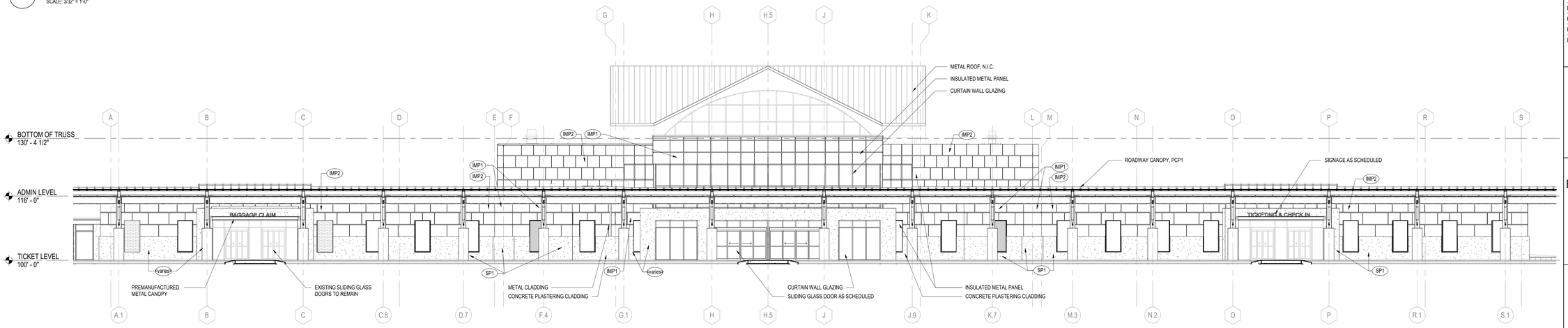
D1 TERMINAL EXTERIOR ELEVATION - NORTH

SCALE: 3/32" = 1'-0"



C1 TERMINAL EXTERIOR ELEVATION - SOUTH

SCALE: 3/32" = 1'-0"



A1 TERMINAL EXTERIOR ELEVATION - WEST

SCALE: 3/32" = 1'-0"

8 0 8 16 24

SCALE: 3/32" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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REVISIONS

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SHEET TITLE:
BUILDING ELEVATIONS

SHEET ID:
A201-4

PROJECT STATUS:
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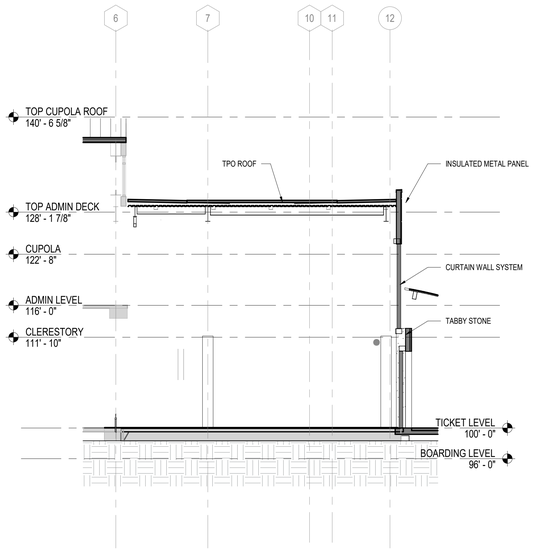
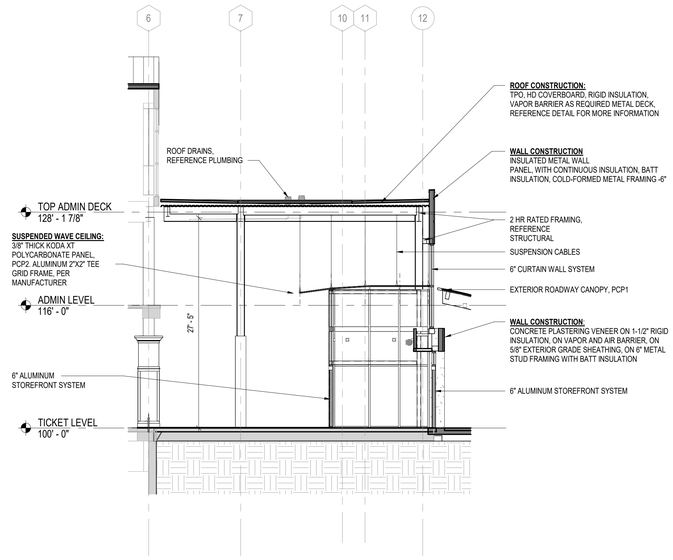
GENERAL NOTES

1. DO NOT SCALE DIMENSIONS FROM DRAWINGS - THE CONTRACTOR MUST REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS FROM THE ARCHITECT.
2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.
3. THE CFMF & PLYWOOD SURFACE SHALL BE PLUMB & FLAT WITHIN +/- 1/8".
4. PLYWOOD SHALL EXTEND THE ENTIRETY OF THE VIDEO WALL SURFACE.
5. PROTECT THE TRANSITION STRIPS WHEN GRINDING TERRAZZO TO POLISH FINISH WITH PROTECTION TAPE.
6. ALL EXPOSED PRIMARY STEEL TO BE 2 HR FIRE RATED.



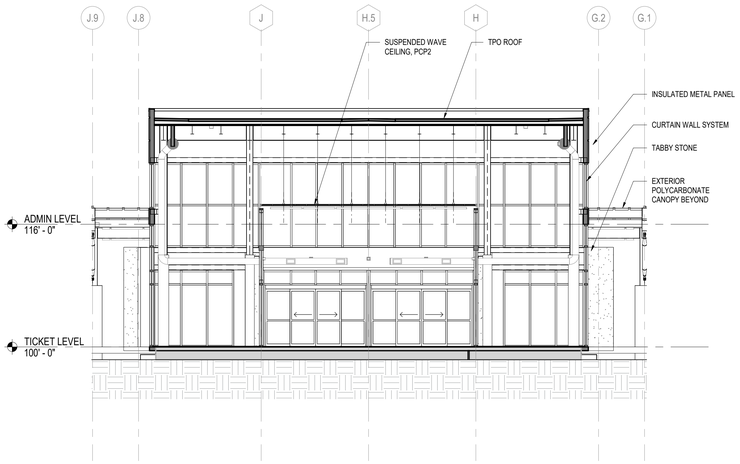
C1 EXPANDED VESTIBULE N-S SECTION THROUGH GLAZING

SCALE: 1/8" = 1'-0"



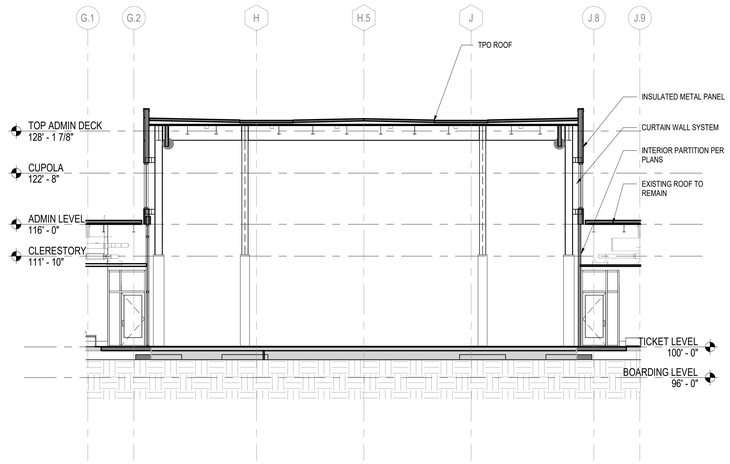
C4 EXPANDED VESTIBULE N-S SECTION THROUGH DOOR

SCALE: 1/8" = 1'-0"



A1 EXPANDED VESTIBULE E-W SECTION THROUGH VESTIBULE

SCALE: 1/8" = 1'-0"



A4 EXPANDED VESTIBULE E-W SECTION THROUGH GLAZING

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

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ILM

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

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DESIGNED BY:	FG

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SHEET TITLE:
BUILDING SECTIONS

SHEET ID:
A301-4

PROJECT STATUS:
100% BID SET

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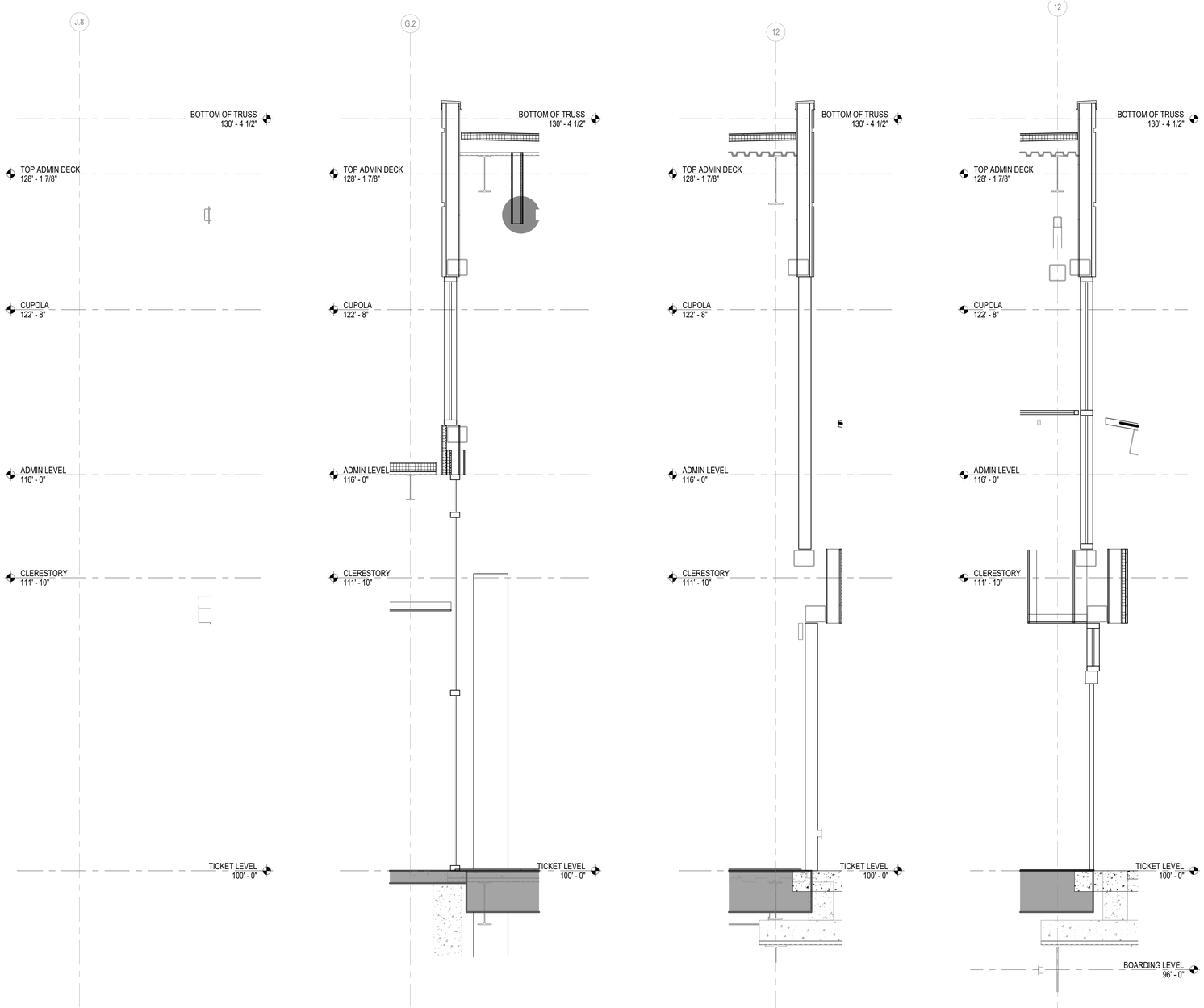


A1 TERMINAL BUILDING SECTION 1

SCALE: 1/2" = 1'-0"

A2 TERMINAL BUILDING SECTION 2

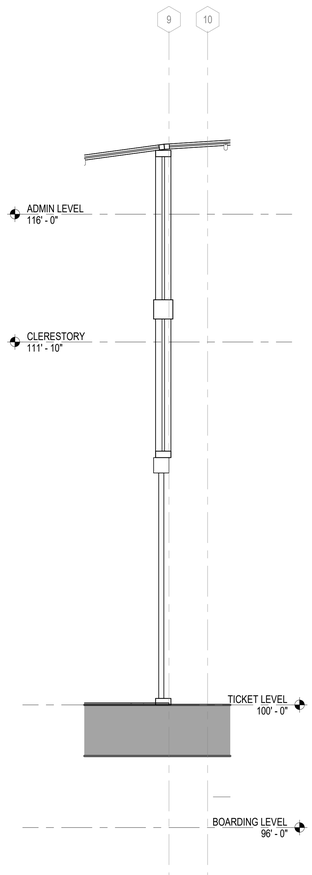
SCALE: 1/2" = 1'-0"

A3 TERMINAL FRONT SECTION

SCALE: 1/2" = 1'-0"

A4 TERMINAL ENTRY SECTION

SCALE: 1/2" = 1'-0"



A5 TERMINAL VESTIBULE SECTION

SCALE: 1/2" = 1'-0"

2 0 2 4

SCALE: 1/2" = 1'-0"

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SHEET TITLE:
WALL SECTIONS

SHEET ID:
A303-4

PROJECT STATUS:
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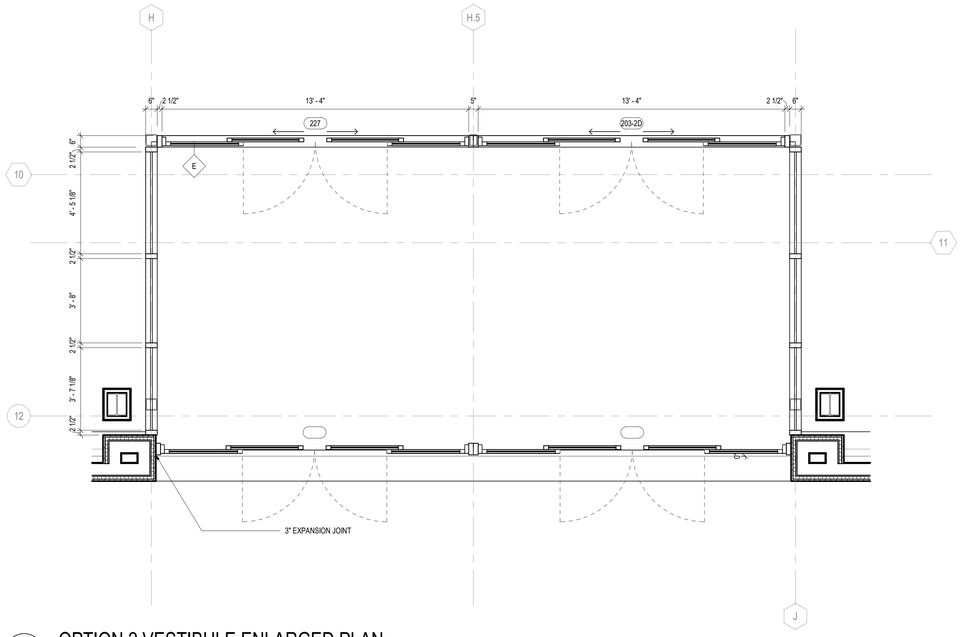
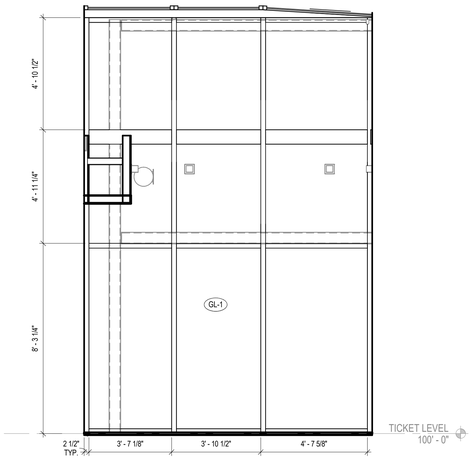


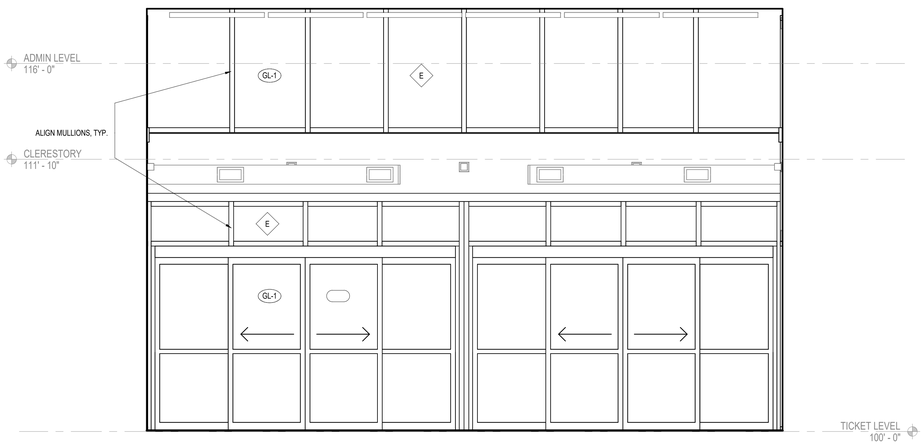
C1 OPTION 2 VESTIBULE ENLARGED PLAN

SCALE: 3/8" = 1'-0"



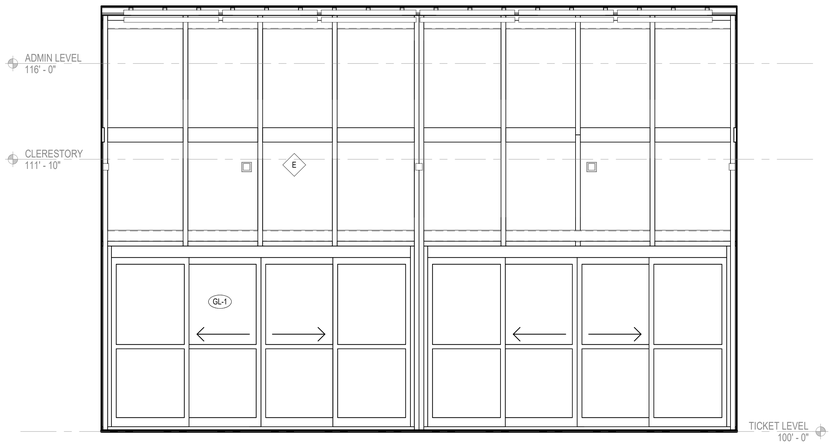
C4 VESTIBULE TYPICAL SIDE INTERIOR ELEVAITON

SCALE: 3/8" = 1'-0"



A1 VESTIBULE SOUTH INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"



A4 VESTIBULE NORTH INTERIOR ELEVATION

SCALE: 3/8" = 1'-0"

2 0 2 4 6

SCALE: 3/8" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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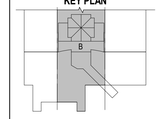
KEY PLAN



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DESIGNED BY:	FG
PROJECT NUMBER:	

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SHEET TITLE:

ENLARGED VESTIBULE PLANS AND ELEVATIONS

SHEET ID:

A401-4

PROJECT STATUS:
100% BID SET

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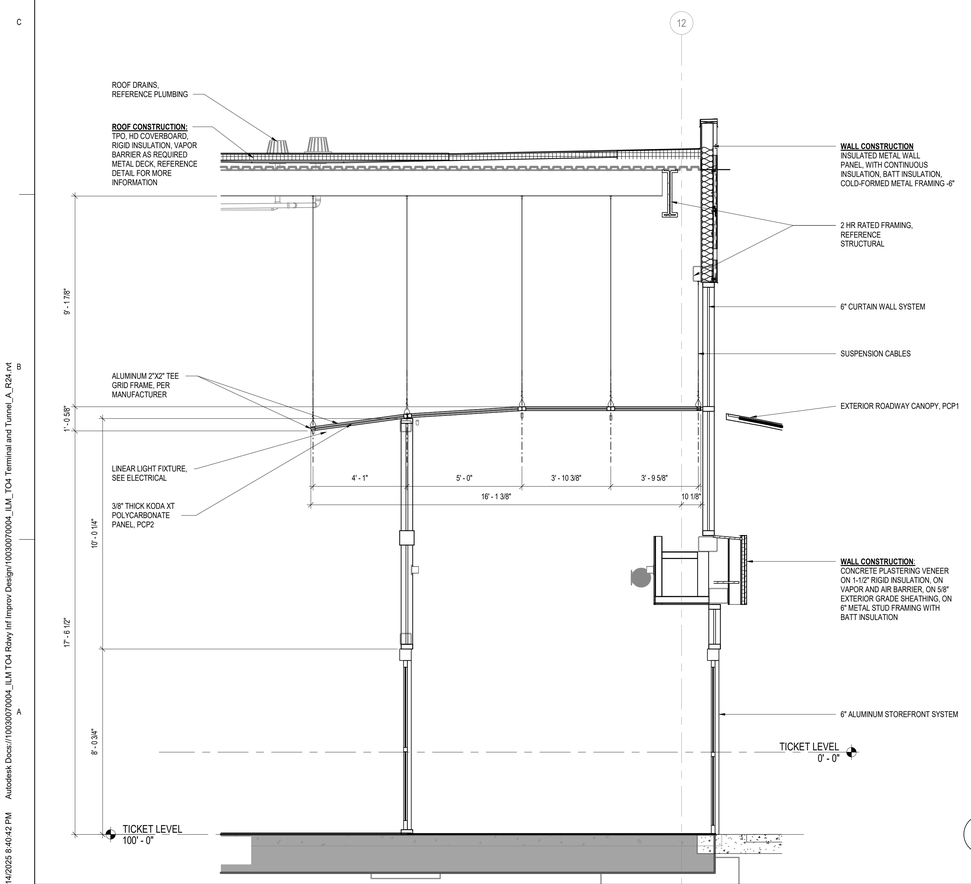
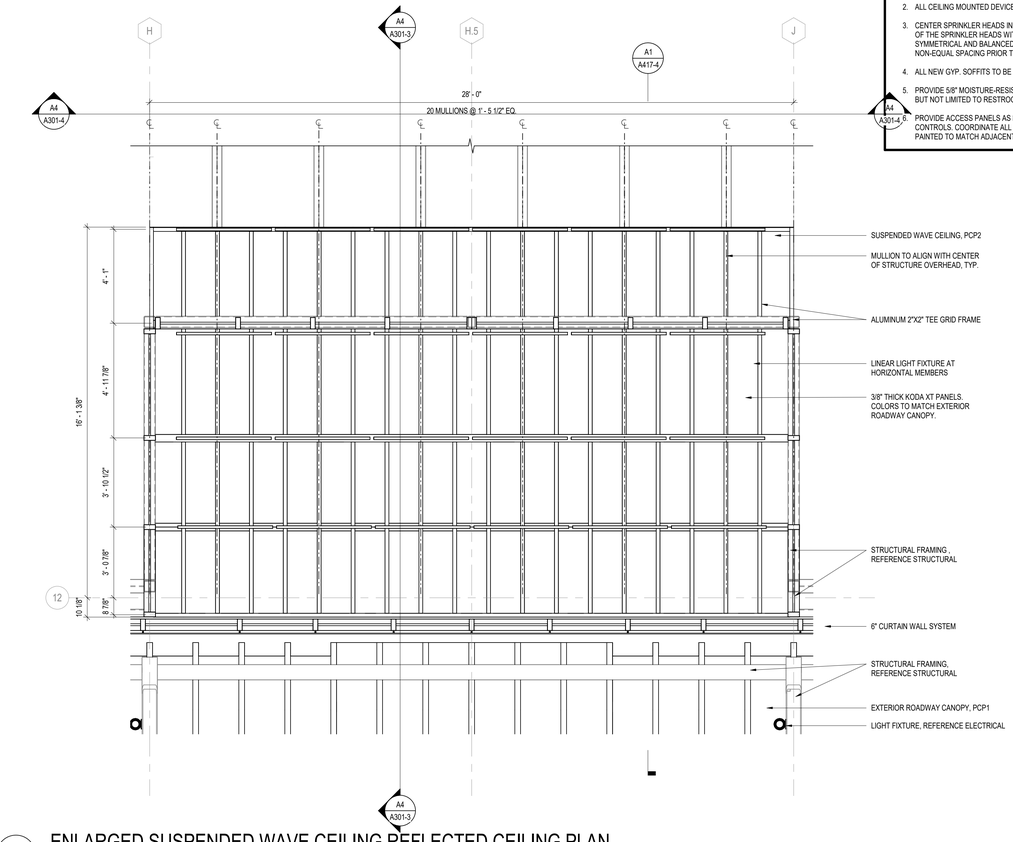


A3 SECTION



A3 ENLARGED SUSPENDED WAVE CEILING REFLECTED CEILING PLAN

SCALE: 3/8" = 1'-0"

CEILING PLAN LEGEND & SHEET NOTES

- NO WORK IN AREA, U.N.O.
- REFER TO VOLUME 1 PACKAGE
- BID ALTERNATE #1 (EXISTING RESTROOM RENOVATIONS)
- BID ALTERNATE #2 (EXISTING BOH CORRIDOR RENOVATIONS)

CEILING TYPES & FIXTURES LEGEND

- ACT1: 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- ACT4: 2' X 6' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- GWB: 5/8" GWB ON METAL FRAMING
- EXP: EXPOSED TO ABOVE
- PCP2: SUSPENDED POLYCARBONATE PANEL AND FRAME SYSTEM
- 4" x 4' FLUORESCENT LIGHT FIXTURE
- 9" x 4' FLUORESCENT LIGHT FIXTURE
- 4" x 8' FLUORESCENT LIGHT FIXTURE
- 2' x 2' FLUORESCENT LIGHT FIXTURE
- 2' x 2' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 2' x 2' STANDBY FLUORESCENT LIGHT FIXTURE
- 1' x 1' FLUORESCENT LIGHT FIXTURE
- 1' x 1' EMERGENCY FLUORESCENT LIGHT FIXTURE
- 6" ROUND STANDBY RECESSED CAN LIGHT FIXTURE
- 6" ROUND RECESSED CAN LIGHT FIXTURE
- 6" ROUND PENDENT LIGHT FIXTURE
- OCCUPANCY SENSOR
- EXIT SIGN
- 2' x 2' SUPPLY AIR DIFFUSER
- 2' x 2' RETURN AIR GRILLE
- 2' x 2' EXHAUST AIR GRILLE
- 6" WALL SCONCE CYLINDER LIGHT FIXTURE

GENERAL SHEET NOTES

1. DEVICES HAVE BEEN SHOWN FOR COORDINATION PURPOSES. SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ITEMS NOT SHOWN ON REFLECTED CEILING PLANS. CONTACT THE ARCHITECT IF ANY CONFLICTS OCCUR.
2. ALL CEILING MOUNTED DEVICES MUST BE CENTERED IN BOTH DIRECTIONS IN ACOUSTICAL CEILING PANELS U.N.O.
3. CENTER SPRINKLER HEADS IN ACOUSTICAL CEILING PANELS WHERE THEY OCCUR. COORDINATE THE LOCATION OF THE SPRINKLER HEADS WITH OTHER CEILING FIXTURES AND EQUIPMENT IN ALL CEILINGS. ENSURE THAT A SYMMETRICAL AND BALANCED ARRANGEMENT IS INSTALLED. CONTRACTING OFFICER IS TO REVIEW INSTANCES OF NON-EQUAL SPACING PRIOR TO INSTALLATION.
4. ALL NEW GYP. SOFFITS TO BE 5/8" TYPE "X" GYP, U.N.O.
5. PROVIDE 5/8" MOISTURE-RESISTANT GWB FOR CEILINGS IN LIEU OF TYPICAL GWB AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO RESTROOMS, JANITOR CLOSETS AND KITCHEN AREAS.
6. PROVIDE ACCESS PANELS AS REQUIRED FOR ACCESS TO PLUMBING VALVES AND MECHANICAL DAMPER BALANCE CONTROLS. COORDINATE ALL LOCATIONS WITH TRADES AND ARCHITECT, TYP. ALL ACCESS PANELS TO BE PAINTED TO MATCH ADJACENT SURFACES.

SCALE: 3" = 1'-0"

SCALE: 1/2" = 1'-0"

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ILM

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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REVISIONS

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DRAWN BY: TP
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SHEET TITLE:
ENLARGED SUSPENDED WAVE CEILING PLANS AND SECTIONS

SHEET ID:
A417-4

PROJECT STATUS:
100% BID SET

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A1 OVERALL TICKET LEVEL FINISH PLAN

SCALE: 1/16" = 1'-0"

SCALE: 1/8" = 1'-0"

GENERAL INTERIOR FINISH NOTES

AREA LEGEND

NO WORK IN AREA, U.N.O.

REFER TO VOLUME 1 PACKAGE

GENERAL

1. FOR BIDDING AND PRICING PURPOSES, NO SUBSTITUTIONS WILL BE ACCEPTED. SUBMIT SAMPLES OF FINISHES TO ARCHITECT FOR APPROVAL.
2. FOR BIDDING AND PRICING PURPOSES, CONTACT ARCHITECT TO OBTAIN MANUFACTURER CONTACT INFORMATION PER EACH FINISH.
3. ALL TILE, EXCEPT MESH MOUNTS ARE TO BE INSTALLED WITH 1/8" GROUT JOINTS OR SMALLER. ALL FLOOR TILE AND WALL TILE JOINTS ARE TO ALIGN IN ONE OR BOTH DIRECTIONS.
4. ALL WALLS ARE TO BE PAINTED WITH P1, UNLESS NOTED OTHERWISE.
5. ALL DOORS AND DOOR FRAMES SHALL BE COORDINATED WITH THE FINISH LEGEND AND THE DOOR HARDWARE SCHEDULE.
6. ASSESS EXISTING WALL FINISH. PLAN FOR REMOVAL OF EXISTING WALL FINISHES WHERE PAINT IS SCHEDULED OR SHOWN ON PLAN OR CALLED OUT AS A GENERAL FINISH. ALL WALLS TO BE RESTORED TO A LEVEL 4 FINISH UPON REMOVAL OF EXISTING FINISHES.
7. USE LOW VOC'S FOR ALL PAINTS, PRIMERS, AND ADHESIVES.
8. LEAD TIMES FOR ALL MANUFACTURERS SHOULD BE CHECKED AT RECEIPT OF CONSTRUCTION DOCUMENTS TO ENSURE PRODUCTS ARE ORDERED IN THE APPROPRIATE TIME FRAME FOR SHIPPING AND RECEIVING PRIOR TO SCHEDULED INSTALLATION DATE.
9. PROVIDE REQUIRED BLOCKING AT WALL HUNG CABINETRY, TV MONITORS, AND DRY ERASE BOARDS.
10. ALL HOLLOW METAL FRAMES IN SCOPE TO BE PAINTED TO MATCH ADJACENT WALL COLOR IN A SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE.
11. PROVIDE LEVEL 5 DRYWALL FINISH AT ALL PARTITIONS/ WALLS TO RECEIVE SCHEDULED COVERING.
12. ALL FINISH MATERIALS TO BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO MANUFACTURER FOR INSTALLATION INSTRUCTIONS. GC TO PROVIDE 6"X6" SAMPLE, U.O.N. IN SPECIFICATIONS FOR MATERIALS LISTED IN FINISH LEGEND.
13. MANUFACTURER AND PRODUCT NAMES ARE "BASIS OF DESIGN". REFER TO SPECS FOR ADDITIONAL APPROVED MANUFACTURERS AND ALLOWABLE SUBSTITUTIONS.
14. SEE INTERIOR FINISH PLANS AND ELEVATIONS FOR CLARIFICATION ON LIMITS AND LOCATIONS OF FINISHES.
15. ALL INTERIOR FINISHES ARE TO BE IN COMPLIANCE WITH ALL CODES, NATIONAL AND LOCAL.REFER TO TOILET ACCESSORIES SCHEDULE FOR TOILET PARTITION FINISH.
16. GC SHALL PROVIDE MOCK UPS FOR COLUMNS, RESTROOM VANITIES WITH FAUCETS AND SOAP DISPENSERS. TEST FOR WATER PRESSURE OUTPUT AND CONFIRM PRESSURE MEETS OWNERS APPROVAL.
17. LOCATIONS LISTED ON FINISH LEGEND ARE APPROXIMATE LOCATIONS AND ARE NOT LIMITED TO THOSE AREAS LISTED. REFER TO ALL DRAWINGS FOR ADDITIONAL INFORMATION.

FLOORING

1. ALL FLOOR FINISH CHANGES TO OCCUR AT CENTERLINE OF DOOR FRAMES, UNLESS NOTED OTHERWISE. REFER TO FINISH PLAN FOR ALL TRANSITION CHANGES.
2. RUBBER BASE SHALL BE USED UNLESS NOTED OTHERWISE.
3. REFER TO FINISH PLANS FOR ANY FLOOR PATTERNS AND FLOOR TRANSITION DETAILS ON FINISH SHEETS.
4. REFER TO FINISH PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON THE LIMITS OF FINISHES.
5. REFER TO FINISH PLAN FOR CARPET TILE AND PATTERN LOCATIONS AND DIRECTION.
6. MITER TILE TO CORNERS OF SQUARE DRAIN - SEE DIAGRAM FOR REFERENCE, SUBMIT SEAMING DIAGRAM FOR APPROVAL.
7. PROVIDE INSTALLATION DIRECTION FOR EACH PRODUCT AND INCLUDE SEAMING DIAGRAM.
8. CONTRACTOR TO EXTEND FINISH FLOORING UNDER ALL LAVATORIES, PLUMBING FIXTURES, MILLWORK, ETC. TO PROVIDE CONTINUOUS FLOOR FINISH U.O.N.

MILLWORK

1. REFER TO MILLWORK SECTIONS FOR EDGE PROFILE.
2. CONFIRM WOOD GRAIN, VENEER, SOLID SURFACE, AND PLASTIC LAMINATE DIRECTION ON SHOP DRAWINGS.
3. SCRIBE ALL COUNTERS TO WALL, CAULK TO MATCH WALL COLOR. SUBMIT CAULK COLOR TO ARCHITECT/PROJECT DESIGNER PRIOR TO INSTALLATION IN ORDER TO CONFIRM WALL COLOR.
4. ALL CABINET PULLS TO BE HAFELE BAR HANDLE, STEEL COSMOPOLITAN COLLECTION, BRUSHED NICKEL, 4" CTC, 8-32 THREAD
5. ALL PLASTIC LAMINATE CABINET DOOR AND DRAWER EDGES TO BE COLOR MATCHED PLASTIC LAMINATE. FINISHES TO BE SELECTED FROM SHOP DRAWING SUBMITTALS FOR APPROVAL.
6. PLASTIC LAMINATE ON ALL OPEN CUBBIES OF INTERIOR OF ENCLOSED CABINETS TO BE PLASTIC LAMINATE TO MATCH ADJACENT FINISH ON VERTICAL SURFACES. UNLESS NOTED OTHERWISE. PROVIDE TPO EDGE BAND TO MATCH PLASTIC LAMINATE COLOR. SUBMIT SAMPLE FOR APPROVAL.

CEILINGS

1. ALL GWB SOFFITS/CEILINGS SHALL BE PAINTED WITH THE DESIGNATED PAINT FOR CEILINGS.
2. REFER TO REFLECTED CEILING PLAN FOR GYPSUM BOARD DROPS AND SOFFITS.

ELEVATORS

1. FOR ELEVATOR CAB INTERIORS REFER TO ELEVATOR FINISH DETAILS ON SHEET A408.

ELECTRICAL

1. COORDINATE SPECIALTY ITEMS WITH ELECTRICAL ENGINEERING SHEETS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: ACRYLIC BACKLIT PANELS, COLUMNS INCLUDING LIGHTING, ELEVATOR CAB INTERIORS, MILLWORK.

FINISH PLAN LEGEND & SHEET NOTES

FLOORING TYPES LEGEND

CPT1: CARPET CUSTOM GRAPHIC

TERR: TERRAZO TO MATCH EXISTING

EPX: CLEAR EPOXY

SC1: SEALED CONCRETE

WOM: WALKOFF MAT

GENERAL SHEET NOTES

1. REFER TO A610 ROOM FINISH SCHEDULE, LEGEND, AND NOTES.
2. REFER TO A810 FOR TRANSITION DETAILS.
3. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
4. CASEWORK/MILLWORK, FURNITURE AND EQUIPMENT NOT SHOWN FOR CLARITY TO ILLUSTRATE EXTENT OF FINISHES.
5. FOR CEILINGS TAGGED AS EXPOSED (EXP), REFER TO A121 FOR ROOF DECK DIAGRAMS AND A810 FOR DECK FINISH INFORMATION
6. SEE SHEETS A401 AND A402 FOR RESTROOM FINISH INFORMATION AND DETAILS.

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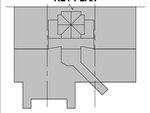
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	SG
DRAWN BY:	Author
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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SEAL:

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SHEET TITLE:
OVERALL TICKET LEVEL INTERIOR FINISH PLAN

SHEET ID:
A806-4

PROJECT STATUS:
100% BID SET

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PN

N

A1 PARTIAL TICKETING LEVEL FINISH PLAN - AREA B

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

GENERAL INTERIOR FINISH NOTES

AREA LEGEND

NO WORK IN AREA, U.N.O.

REFER TO VOLUME 1 PACKAGE

GENERAL

1. FOR BIDDING AND PRICING PURPOSES, NO SUBSTITUTIONS WILL BE ACCEPTED. SUBMIT SAMPLES OF FINISHES TO ARCHITECT FOR APPROVAL.
2. FOR BIDDING AND PRICING PURPOSES, CONTACT ARCHITECT TO OBTAIN MANUFACTURER CONTACT INFORMATION PER EACH FINISH.
3. ALL TILE, EXCEPT MESH MOUNTS ARE TO BE INSTALLED WITH 1/8" GROUT JOINTS OR SMALLER. ALL FLOOR TILE AND WALL TILE JOINTS ARE TO ALIGN IN ONE OR BOTH DIRECTIONS.
4. ALL WALLS ARE TO BE PAINTED WITH P1, UNLESS NOTED OTHERWISE.
5. ALL DOORS AND DOOR FRAMES SHALL BE COORDINATED WITH THE FINISH LEGEND AND THE DOOR HARDWARE SCHEDULE.
6. ASSESS EXISTING WALL FINISH. PLAN FOR REMOVAL OF EXISTING WALL FINISHES WHERE PAINT IS SCHEDULED OR SHOWN ON PLAN OR CALLED OUT AS A GENERAL FINISH. ALL WALLS TO BE RESTORED TO A LEVEL 4 FINISH UPON REMOVAL OF EXISTING FINISHES.
7. USE LOW VOC'S FOR ALL PAINTS, PRIMERS, AND ADHESIVES.
8. LEAD TIMES FOR ALL MANUFACTURERS SHOULD BE CHECKED AT RECEIPT OF CONSTRUCTION DOCUMENTS TO ENSURE PRODUCTS ARE ORDERED IN THE APPROPRIATE TIME FRAME FOR SHIPPING AND RECEIVING PRIOR TO SCHEDULED INSTALLATION DATE.
9. PROVIDE REQUIRED BLOCKING AT WALL HUNG CABINETRY, TV MONITORS, AND DRY ERASE BOARDS.
10. ALL HOLLOW METAL FRAMES IN SCOPE TO BE PAINTED TO MATCH ADJACENT WALL COLOR IN A SEMI-GLOSS FINISH UNLESS NOTED OTHERWISE.
11. PROVIDE LEVEL 5 DRYWALL FINISH AT ALL PARTITIONS/ WALLS TO RECEIVE SCHEDULED COVERING.
12. ALL FINISH MATERIALS TO BE INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS. REFER TO MANUFACTURER FOR INSTALLATION INSTRUCTIONS. GC TO PROVIDE 6"X6" SAMPLE, U.O.N. IN SPECIFICATIONS FOR MATERIALS LISTED IN FINISH LEGEND.
13. MANUFACTURER AND PRODUCT NAMES ARE "BASIS OF DESIGN". REFER TO SPECS FOR ADDITIONAL APPROVED MANUFACTURERS AND ALLOWABLE SUBSTITUTIONS.
14. SEE INTERIOR FINISH PLANS AND ELEVATIONS FOR CLARIFICATION ON LIMITS AND LOCATIONS OF FINISHES.
15. ALL INTERIOR FINISHES ARE TO BE IN COMPLIANCE WITH ALL CODES, NATIONAL AND LOCAL. REFER TO TOILET ACCESSORIES SCHEDULE FOR TOILET PARTITION FINISH.
16. GC SHALL PROVIDE MOCK UPS FOR COLUMNS, RESTROOM VANITIES WITH FAUCETS AND SOAP DISPENSERS. TEST FOR WATER PRESSURE OUTPUT AND CONFIRM PRESSURE MEETS OWNERS APPROVAL.
17. LOCATIONS LISTED ON FINISH LEGEND ARE APPROXIMATE LOCATIONS AND ARE NOT LIMITED TO THOSE AREAS LISTED. REFER TO ALL DRAWINGS FOR ADDITIONAL INFORMATION.

FLOORING

1. ALL FLOOR FINISH CHANGES TO OCCUR AT CENTERLINE OF DOOR FRAMES, UNLESS NOTED OTHERWISE. REFER TO FINISH PLAN FOR ALL TRANSITION CHANGES.
2. RUBBER BASE SHALL BE USED UNLESS NOTED OTHERWISE.
3. REFER TO FINISH PLANS FOR ANY FLOOR PATTERNS AND FLOOR TRANSITION DETAILS ON FINISH SHEETS.
4. REFER TO FINISH PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON THE LIMITS OF FINISHES.
5. REFER TO FINISH PLAN FOR CARPET TILE AND PATTERN LOCATIONS AND DIRECTION.
6. MITER TILE TO CORNERS OF SQUARE DRAIN - SEE DIAGRAM FOR REFERENCE, SUBMIT SEAMING DIAGRAM FOR APPROVAL.
7. PROVIDE INSTALLATION DIRECTION FOR EACH PRODUCT AND INCLUDE SEAMING DIAGRAM.
8. CONTRACTOR TO EXTEND FINISH FLOORING UNDER ALL LAVATORIES, PLUMBING FIXTURES, MILLWORK, ETC. TO PROVIDE CONTINUOUS FLOOR FINISH U.O.N.

MILLWORK

1. REFER TO MILLWORK SECTIONS FOR EDGE PROFILE.
2. CONFIRM WOOD GRAIN, VENEER, SOLID SURFACE, AND PLASTIC LAMINATE DIRECTION ON SHOP DRAWINGS.
3. SCRIBE ALL COUNTERS TO WALL. CAULK TO MATCH WALL COLOR. SUBMIT CAULK COLOR TO ARCHITECT/PROJECT DESIGNER PRIOR TO INSTALLATION IN ORDER TO CONFIRM WALL COLOR.
4. ALL CABINET PULLS TO BE HAFELE BAR HANDLE, STEEL COSMOPOLITAN COLLECTION, BRUSHED NICKEL, 4" CTC, 8-32 THREAD
5. ALL PLASTIC LAMINATE CABINET DOOR AND DRAWER EDGES TO BE COLOR MATCHED PLASTIC LAMINATE. FINISHES TO BE SELECTED FROM SHOP DRAWING SUBMITTALS FOR APPROVAL.
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ELEVATORS

1. FOR ELEVATOR CAB INTERIORS REFER TO ELEVATOR FINISH DETAILS ON SHEET A408.

ELECTRICAL

1. COORDINATE SPECIALTY ITEMS WITH ELECTRICAL ENGINEERING SHEETS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: ACRYLIC BACKLIT PANELS, COLUMNS INCLUDING LIGHTING, ELEVATOR CAB INTERIORS, MILLWORK.

FINISH PLAN LEGEND & SHEET NOTES

FLOORING TYPES LEGEND

- CPT1: CARPET CUSTOM GRAPHIC
- TERR: TERRAZO TO MATCH EXISTING
- EPX: CLEAR EPOXY
- SC1: SEALED CONCRETE
- WOM: WALKOFF MAT

GENERAL SHEET NOTES

1. REFER TO A610 ROOM FINISH SCHEDULE, LEGEND, AND NOTES.
2. REFER TO A810 FOR TRANSITION DETAILS.
3. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
4. CASEWORK/MILLWORK, FURNITURE AND EQUIPMENT NOT SHOWN FOR CLARITY TO ILLUSTRATE EXTENT OF FINISHES.
5. FOR CEILINGS TAGGED AS EXPOSED (EXP), REFER TO A121 FOR ROOF DECK DIAGRAMS AND A810 FOR DECK FINISH INFORMATION
6. SEE SHEETS A401 AND A402 FOR RESTROOM FINISH INFORMATION AND DETAILS.

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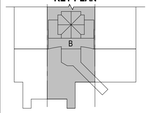
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	SG
DRAWN BY:	Author
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SEAL:

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SHEET TITLE:
PARTIAL TICKETING LEVEL FINISH PLAN - AREA B

SHEET ID:
A808-4

PROJECT STATUS:
100% BID SET

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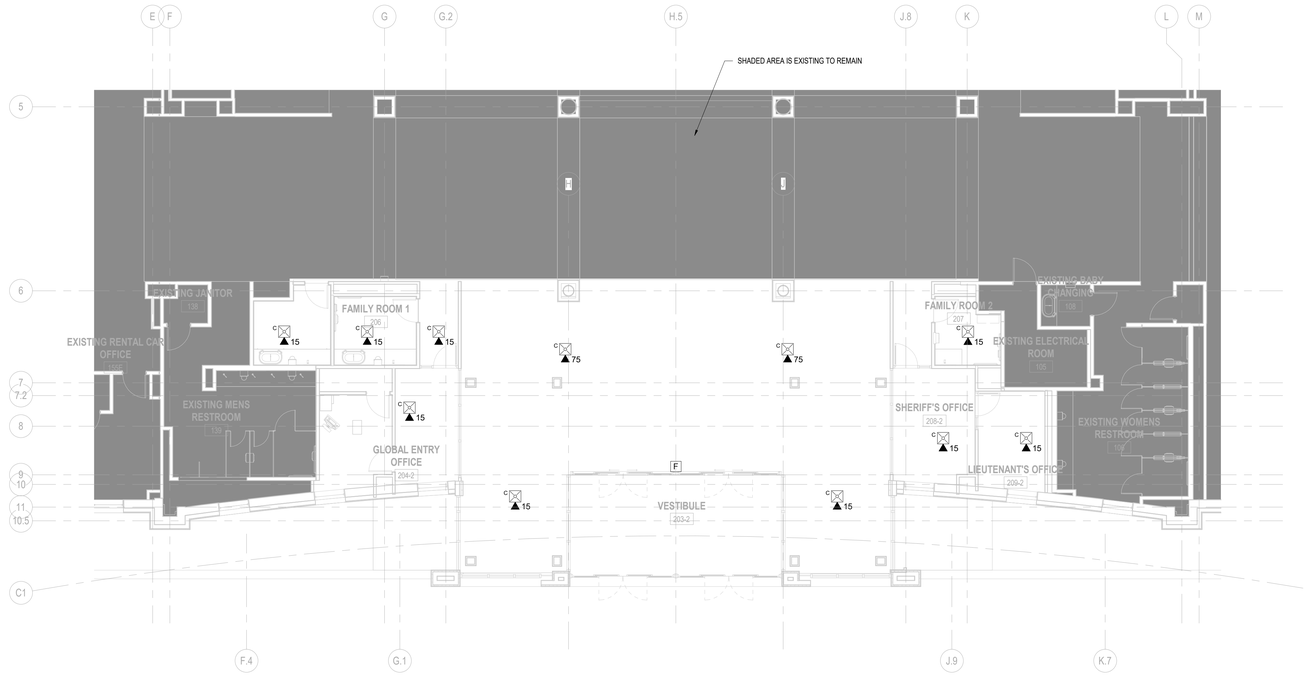

1 FIRE ALARM PLAN - TICKET LEVEL OPTION 2

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

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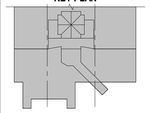
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/14/2025
REVIEWED BY:	KMN
DRAWN BY:	SVL
DESIGNED BY:	SVL
PROJECT NUMBER:	2003-0070-006

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SHEET TITLE:
TICKET LEVEL FIRE ALARM PLAN - BID ALT 4

SHEET ID:
FA106-4

PROJECT STATUS:
100% BID SET

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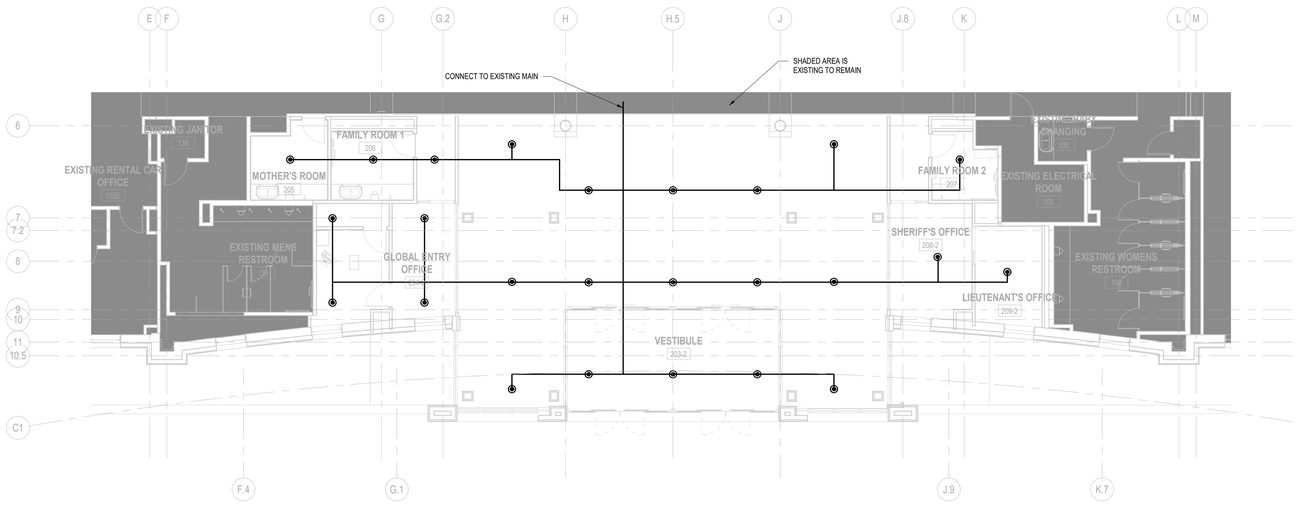
FIRE PROTECTION SHEET NOTES

1. RELOCATE OR PROVIDE NEW SPRINKLERS IN RENOVATED AREAS TO ACCOMMODATE NEW WALL AND CEILING CONFIGURATIONS. CONNECT TO EXISTING PIPING ABOVE CEILINGS.



1 FIRE PROTECTION PLAN - TICKET LEVEL OPTION 2

SCALE: 1/8" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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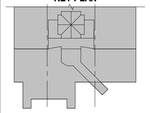
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/14/2025
REVIEWED BY:	KMN
DRAWN BY:	SVL
DESIGNED BY:	SVL
PROJECT NUMBER:	2003-0070-006

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SEAL:

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SHEET TITLE:
TICKET LEVEL FIRE PROTECTION PLAN - BID ALT 4

SHEET ID:
FX106-4

PROJECT STATUS:
100% BID SET

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GENERAL MECHANICAL SYMBOLS

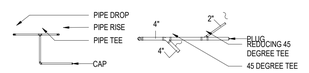
- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- DISCONNECT SYMBOL
- XX / XXXX — NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- 0 — KEYNOTE
- CONTINUATION SYMBOL
- Room / 4 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- 2" — AREA NOT IN CONTRACT
- PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- INVERT: -105' - 1" — BELOW GROUND PIPING
- PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

ABBREVIATIONS

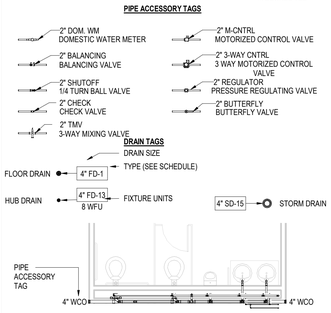
(E)	EXISTING PREFIX STANDARD, ABBREV. FOR EXISTING PIPING
AAV	AIR ADMITTANCE VALVE, INSTALLED ACCESSIBLE WITH FRESH AIR LOUVER
ABV	ABOVE
AC	ABOVE CEILING (GENERALLY INDICATES NOTED PIPING INSTALLED ABOVE CEILING)
AC	AIR CONDITIONING
ACT	REMOVABLE LAY-IN ACOUSTICAL CEILING TILE ASSEMBLY
AD	AREA DRAIN
ADD	ADDENDUM
AF	ABOVE FLOOR - REFERENCE TO TOP OF FINISHED FLOOR ELEVATION (UNO)
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
ALT	ALTERNATE
AP	ACCESS PANEL
BFCP	
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BFPD	BACKFLOW PREVENTER DRAIN
BG	BELOW GRADE (GENERALLY INDICATES NOTED PIPING INSTALLED BELOW GRADE, APRON, AND/OR 1ST FLOOR)
BLW	BELOW
BTHU	BRITISH THERMAL UNITS PER HOUR
BTSP	SINGLE FLOOR DRAIN BATTERY OPERATED TRAP SEAL PRIMER
BTU	BRITISH THERMAL UNITS
CAP	CAPACITY
CB	CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON PIPING, FITTINGS AND COUPLINGS, ETC. (CAST IRON METAL)
CLG	CEILING
CO	CLEAN OUT
CP	CHROME PLATED FINISH ON SPECIFIED PIPING, MATERIAL, OR EQUIPMENT
CU	COPPER PIPING, MATERIAL, OR EQUIPMENT, TYPE OF COPPER INDICATED
CW	COLD WATER
CWV	COMBINATION WASTE AND VENT, ENGINEERED PIPING SYSTEM
D	DEGREE
DB	DRY BULB
DI	DUCTILE IRON PIPING, FITTINGS, AND COUPLINGS, ETC. (DUCTILE IRON MATERIAL)
DIA	DIAMETER
DN	DOWN
EIA	EXHAUST AIR
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ETSP	MULTIPLE ELECTRONIC FLOOR DRAIN TRAP SEAL PRIMER
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
F	DEGREES FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FL	FLOOR
FO	FUEL OIL
FPM	FEET PER MINUTE
FS	FLOOR SINK
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIB
HP	HORSE POWER
HTG	HEATING
HTR	HEATER
HW	HOT WATER
HYD	HYDRANT
ID	INDIRECT
IE	PIPING INVERT ELEVATION - REFERENCE TO FINISHED GROUND LEVEL FLOOR SLAB ELEVATION 0.00' UNO
IN	INCH
INV	INVERT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LP	LOW PRESSURE
LPG	LIQUIFIED PETROLEUM GAS
LWT	LEAVING WATER TEMPERATURE
M/A	MIXED AIR
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTR	MOTOR
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O/A	OUTSIDE AIR
ORD	OVERFLOW ROOF DRAIN
PBB	PASSENGER BOARDING BRIDGE
PD	PRESSURE DROP
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPING
PWR	POWER
R/A	RETURN AIR
RD	ROOF DRAIN
REC	RECESSED
RED	REDUCER
RH	RELATIVE HUMIDITY
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RW	RAIN WATER
S/A	SUPPLY AIR
SAN	SANITARY
SF	SQUARE FEET
SS	STAINLESS STEEL
TPRV	ASME APPROVED COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE
TSP	SINGLE FLOOR DRAIN TRAP SEAL PRIMER (ADDED SUFFIX LETTERS INDICATE MULTIPLE DRAINS)
TYP	TYPICAL AND TYPICAL AS SHOWN
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VENT
VTR	VENT-THRU-ROOF, VANDAL-PROOF, WITH SKIRT, BOOT, FLASHING AND HOOD
W	WASTE
WB	WET BULB
WCO	WALL CLEAN OUT
WH	WALL HYDRANT

PLUMBING AND PIPING SYMBOLS

CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
G	NATURAL GAS
PG	PROPANE GAS
REF-L	REFRIGERANT-LIQUID
REF-S	REFRIGERANT-SUCTION
REF-HG	REFRIGERANT-HOT GAS
STM	STEAM
CDR	CONDENSATE RETURN
CWV	COMBINATION WASTE & VENT
CA	COMPRESSED AIR
CW	DOMESTIC COLD WATER
S-CW	SPECIALTY COLD WATER
HW	HOT WATER
HW-R	HOT WATER RECIRCULATION
GV	GREASE VENT
GW	GREASE WASTE
OV	OIL VENT
OW	OIL WASTE
V	SANITARY VENT
SS	SANITARY SEWER
SHWR	SOLAR HOT WATER RETURN
SHWS	SOLAR HOT WATER SUPPLY
SD	STORM DRAINAGE
OSD	OVERFLOW STORM DRAINAGE



PIPE ACCESSORY TAGS



GENERAL NOTES

1. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING AND PROPOSED CONDITIONS AND UTILITIES, PIPE SIZES, LOCATIONS, MATERIALS, ETC., BEFORE BID, STARTING WORK OR ORDERING MATERIALS AND INCLUDE MINOR ADJUSTMENTS TO ADAPT DESIGN TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR MUST COORDINATE THE PLUMBING SYSTEMS INSTALLATION WITH WORK OF STRUCTURE, HVAC, ELECTRICAL, CASEWORK, FOOD SERVICE EQUIPMENT AND RELATED TRIM, ETC., TO PRECLUDE INTERFERENCE.
3. RECONSTRUCT OR PATCH EXISTING CONSTRUCTION, WALLS, CEILINGS, FLOORS, ROOFS, ETC., AND SURFACES DISTURBED TO MATCH EXISTING SURROUNDING CONSTRUCTION AND FINISHES, UNLESS OTHERWISE NOTED.
4. EQUIPMENT AND MATERIALS, ETC., SPECIFIED OR SCHEDULED OR NOTED ON THE DRAWINGS, METHODS DETAILED AND PIPING MATERIALS INDICATED ON THE DRAWINGS SUPERCEDE ONLY ANY CONFLICTING SPECIFICATION ARTICLES AND/OR REQUIREMENTS OF DIVISION 22 REGARDING PLUMBING MATERIALS, METHODS, ETC. THIS INCLUDES MATERIALS SPECIFIED, LEGEND ITEMS REPRESENTED SYMBOLICALLY ON THE DRAWINGS AND IDENTIFIED IN THE LEGEND DESCRIPTIONS OR ABBREVIATIONS DESCRIPTIONS.
5. ADJUST FLOW & TEMPERATURE TO SPECIFIED FLOW & TEMPERATURE FOR ALL FIXTURES PER NORTH CAROLINA 2024 PLUMBING CODE; ADJUST SENSOR / METERING FAUCET TO OPERATE FOR 15 SECONDS AND MAXIMUM MIXED WATER TEMPERATURE TO BE 110 DEGREES FAHRENHEIT AT EVERY SENSOR / MIXING FAUCET EXCEPT JANITOR AND FOOD SERVICE FAUCETS.
6. INSTALL ALL PLUMBING MATERIALS, TRIM ACCESSORIES AND RELATED ITEMS IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AND RECOMMENDATIONS AND AS SHOWN ON THE PLUMBING DRAWINGS.
7. DIRECTIONAL CHANGES IN THE HORIZONTAL PLANE OF S, W, ESD AND SD (ALL DRAINAGE) PIPING SYSTEMS MUST NOT USE QUARTER BENDS, SHORT SWEEP QUARTER BENDS OR SHORT SWEEP QUARTER BENDS MUST NOT EXCEED 45 DEGREES UNLESS AN FCO OR WCO IS PROVIDED. PIPING IS INSTALLED AND COORDINATED WITH ALL BUILDING ELEMENTS IN THE FIELD, PROVIDE FCO'S OR WCO'S FOR HORIZONTAL ROUTES OR BRANCHES OF ALL DRAINAGE PIPING SYSTEMS WITH MORE THAN ONE OFFSET OR CHANGE IN DIRECTION EVERY 40 FEET (MAXIMUM SPACING FOR MULTIPLE OFFSETS) OF DEVELOPED LENGTH OF DRAINAGE PIPING.)
8. U.N.O. ON THE PLUMBING DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LAYOUTS AND EXACT LOCATIONS OF PLUMBING FIXTURES, FLOOR DRAINS, FLOOR SINKS, ROOF DRAINS, EMERGENCY ROOF DRAINS, DOWNSPOUT NOZZLES, AREA DRAINS, ETC. WHERE DIMENSIONS ARE NOT GIVEN CENTERLINE FIXTURE PLACEMENT, MOUNTING HEIGHTS, SPOUT HEIGHTS, ETC., MUST BE IN COMPLIANCE WITH THE NORTH CAROLINA 2024 BUILDING CODE AND NORTH CAROLINA 2024 PLUMBING CODE.
9. THE CONTRACTOR MUST PAY ALL REQUIRED WATER, GAS AND SANITARY PERMITS, TAPS (UTILITY CONNECTIONS), METERS, CROSS-CONNECTIONS (BACKFLOW PREVENTERS) PERMIT, INSPECTION AND TEST FEES AND OTHER FEES AS MAY BE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
10. PROVIDE CAST IRON DEEP SEALING TRAPS BELOW FLOOR DRAINS AND FLOOR SINKS REGARDLESS WHETHER PIPING MATERIAL IS PVC OR CAST IRON.
11. PROVIDE CAST IRON CLEANOUT TEES FOR WCO AND CAST IRON COOG AND FCO INCLUDING CLEANOUT BODY, PIPING AND FITTINGS EXTENDED TO PIPING SERVED.
12. SANITARY OR WASTE BRANCHES IN WALLS SERVING LAVATORIES, SINKS, URINALS, HANDSINKS AND SIMILAR FIXTURES MUST BE COPPER DWV OR PVC TUBE AND FITTINGS. WYES, TEES, CROSSES AND COMBINATION WYE AND 1/8 BENDS AT SANITARY OR WASTE STACKS MUST BE PROVIDED WITH WASTE ARM ELBOWS IN WALL, ALL OF WHICH MUST NOT PENETRATE FACE OF WALL. PROVIDE ELBOWS IN WALL ON WASTE ARM TO ENSURE STACK FITTING CONCEALMENT.
13. ALL PLUMBING WORK MUST BE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING, PLUMBING & MECHANICAL CODES (2024 WITH MODIFICATIONS) AND NFPA 101 LIFE SAFETY CODE (LATEST EDITION). ALL CENTERLINE FIXTURE PLACEMENT, MOUNTING HEIGHTS, SPOUT HEIGHTS, ETC., MUST BE IN COMPLIANCE WITH THE NORTH CAROLINA 2024 BUILDING AND NORTH CAROLINA 2024 PLUMBING CODE.
14. ALL PLUMBING WORK MUST BE INSTALLED IN A PROFESSIONAL, NEAT AND WORKMANLIKE MANNER FOR COMMERCIAL CONSTRUCTION.
15. ALL MODIFICATIONS TO THE PLUMBING WORK MUST BE RECORDED IN DETAIL ON THE AS-BUILT DRAWINGS AS REQUIRED PER THE PROJECT SPECIFICATIONS IN THE PROJECT MANUAL.
16. DIELECTRIC UNIONS MUST BE PROVIDED ON ONE SIDE OF THREADED BALL VALVES, GATE VALVES, CHECK VALVES AND CIRCUIT BALANCING VALVES. PROVIDE DIELECTRIC UNION ON THE UPSTREAM SIDE OF BRAZED OR SOLDERED VALVES. DIELECTRIC UNIONS ARE NOT BE REQUIRED ON THREE PIECE, UNION, FULL PORT, BALL VALVES.
17. ALL PIPING BELOW FLOOR AND BELOW GRADE MUST BE INSTALLED WITH 4.5 MIL FOIL DETECTABLE UNDERGROUND WARNING AND IDENTIFICATION TAPE INSTALLED A MAXIMUM OF 8" ABOVE TOP OF PIPING. FOR PIPING DEEPER THAN 32" BELOW FLOOR / GRADE PROVIDE ADDITIONAL WARNING AND IDENTIFICATION TAPE(S) AT 24" DEPTH INTERVALS ALONG ENTIRE LENGTH OF PIPING. WHERE PIPING RISES TO ABOVE GRADE OR FLOOR SECURELY TERMINATE TAPE AND PROVIDE ENGRAVED PHENOLIC NAMEPLATES PERMANENTLY SECURED ADJACENT TO PENETRATION. NAMEPLATE TEXT MUST IDENTIFY PIPING SERVICE, MATERIAL AND WHERE PIPING EXTENDS TO.
18. INSTALL CAST IRON SANITARY AND VENT PIPING AND COPPER WATER PIPING IN RETURN AIR PLENUMS. PLASTIC OR PVC PIPING MUST NOT BE INSTALLED IN RETURN AIR PLENUMS. PIPES INSTALLED IN A RETURN AIR PLENUM MUST BE INSTALLED WITH AN APPROVED WRAP WHICH HAS A 25/50 FLAME SPREAD/SMOKE DEVELOPED INDEX WHEN TESTED IN ACCORDANCE WITH ASTM E84 UP TO A 2" WALL THICKNESS.
19. WHERE VALVES ARE INSTALLED ABOVE CEILING, PROVIDE VISUAL IDENTIFICATION AT CEILING GRID ACCESS OR AT ACCESS PANELS. IDENTIFICATION MUST BE VISIBLE FROM BELOW CEILING. THIS IS IN ADDITION TO MECHANICAL IDENTIFICATION REQUIREMENTS SPECIFIED IN THE PROJECT MANUAL. PROVIDE AP (FOR ACCESS PANELS SPECIFICATION SEE SCHEDULE THIS SHEET) AT HARD (GYPSUM BOARD OR PLASTER) CEILINGS TO ACCESS AND MAINTAIN VALVES.
20. PROJECT INCLUDES RETURN AIR PLENUM THROUGHOUT. UTILIZE PLENUM RATED MATERIALS AS NECESSARY.
21. VTR: (VENT THRU ROOF): VENT PIPING PENETRATING ROOF MUST BE STONEMAN 1100-NHCI-10SK, EXTENDED STYLE, VANDAL-PROOF HOOD, CAULK TYPE WITH 10" SEAMLESS LEAD FLASHING SKIRT 5" TALL WITH STEEL REINFORCED BOOT, COMBINATION GALVANIZED CAST IRON COUNTERFLASHING AND VANDAL FLASH HOOD WITH VANDAL-PROOF SCREWS. PROVIDE EPOXY COMPOUND TO SEAL ANNULAR SPACE OF COUNTERFLASHING. PROVIDE SPECIFIC TYPE ASSEMBLY FOR MATERIAL OF ROOF PENETRANT. FOR STANDING SEAM METAL ROOF SYSTEMS PROVIDE SIMILAR ASSEMBLY AS NOTED HEREIN EXCEPT, MANUFACTURED SPECIFICALLY FOR STANDING SEAM METAL ROOF SYSTEMS.

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	KMN
DRAWN BY:	MA
DESIGNED BY:	RSS
PROJECT NUMBER:	

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SHEET TITLE:

PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET ID:

P001-4

PROJECT STATUS:
100% BID SET

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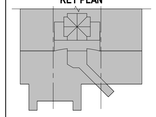
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: KMN
DRAWN BY: MA
DESIGNED BY: RSS
PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:

OVERALL TICKET LEVEL PLUMBING DEMOLITION PLAN

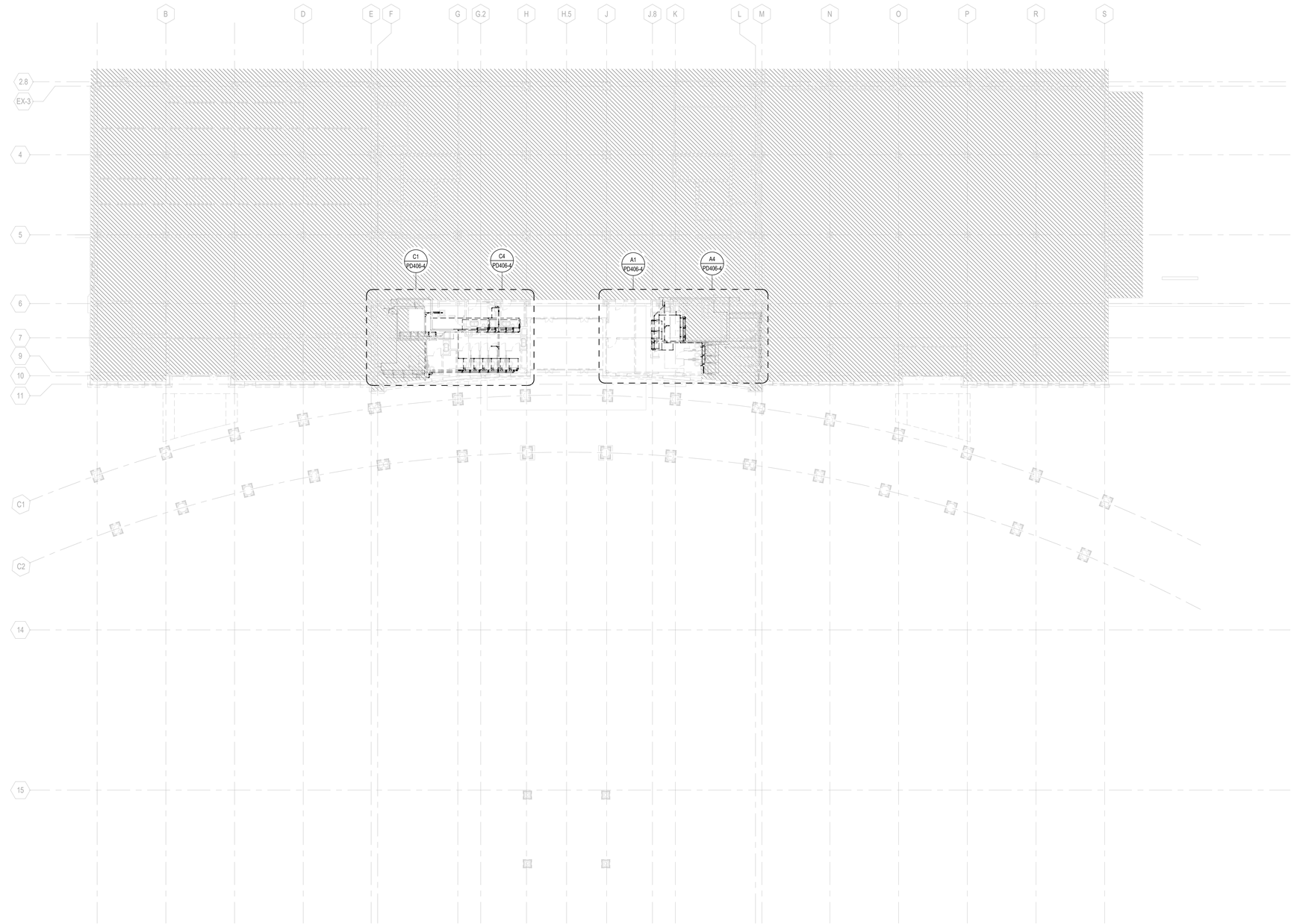
SHEET ID:

PD106-4

PROJECT STATUS:
100% BID SET

FLOOR PLAN LEGEND

	NO WORK IN AREA, U.N.O.



PN
N

B2 OVERALL TICKET LEVEL PLUMBING DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

3/14/2025 6:10:11 PM Autodesk Docs://1003007004_ILM TO4 Rdwy Int Improv Design/2003007006_ILM_TO6_Terminal and Tunnel_MP_R24.rvt

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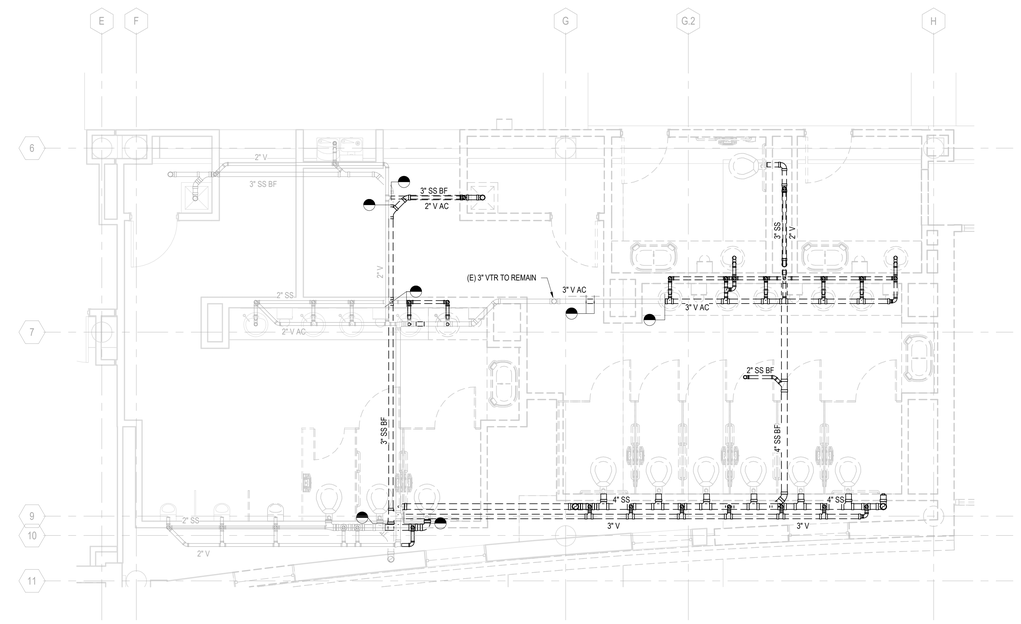
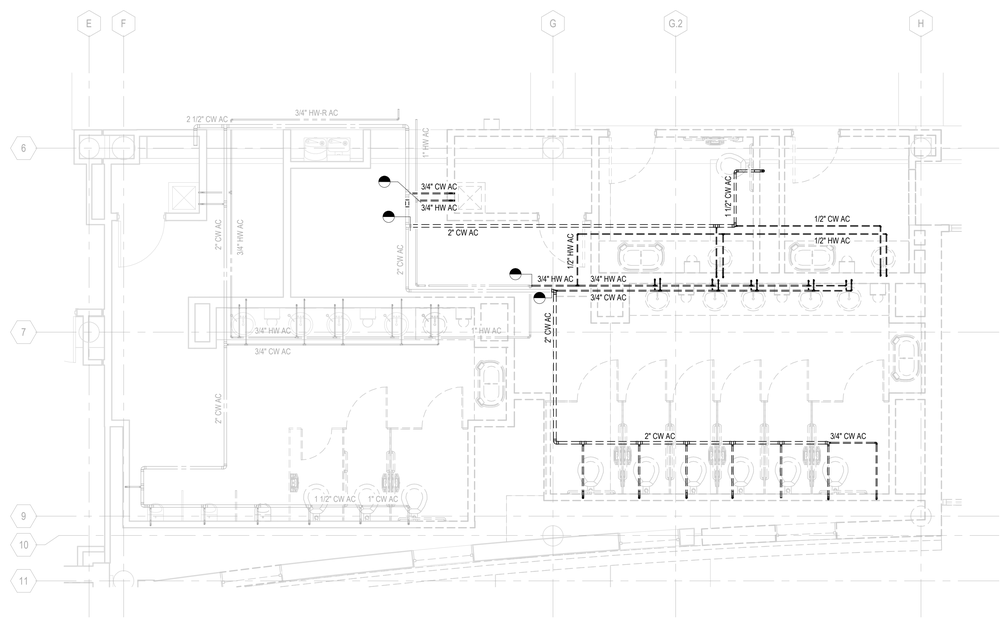


PN

C1 ENLARGED TICKET LEVEL DRAINAGE WASTE AND VENT PIPING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



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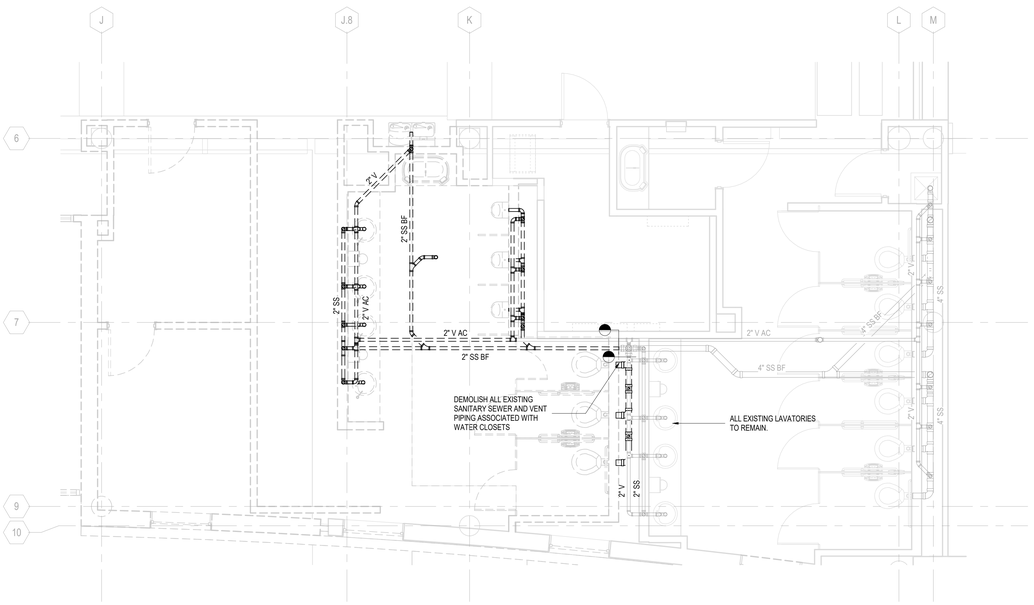
C4 ENLARGED TICKET LEVEL PRESSURE PIPING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



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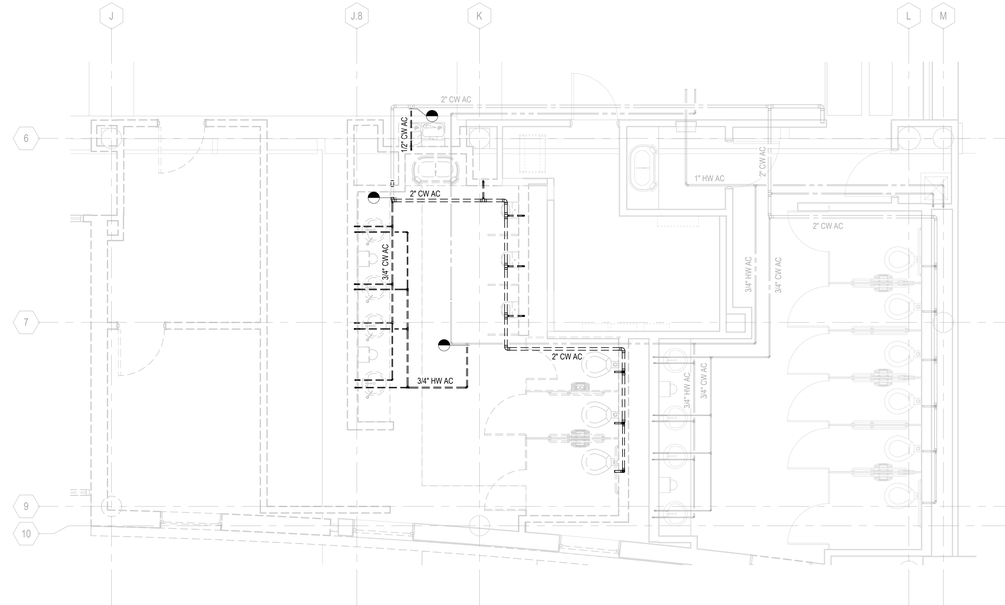
A1 ENLARGED TICKET LEVEL DRAINAGE WASTE AND VENT PIPING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"



PN

A4 ENLARGED TICKET LEVEL PRESSURE PIPING DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

4 0 4 8

SCALE: 1/4" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	KMN
DRAWN BY:	CDW
DESIGNED BY:	RSS
PROJECT NUMBER:	1003-0070-004

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ENLARGED TICKET LEVEL PLUMBING DEMOLITION PLANS

SHEET ID:
PD406-4

PROJECT STATUS:
100% BID SET

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FLOOR PLAN LEGEND

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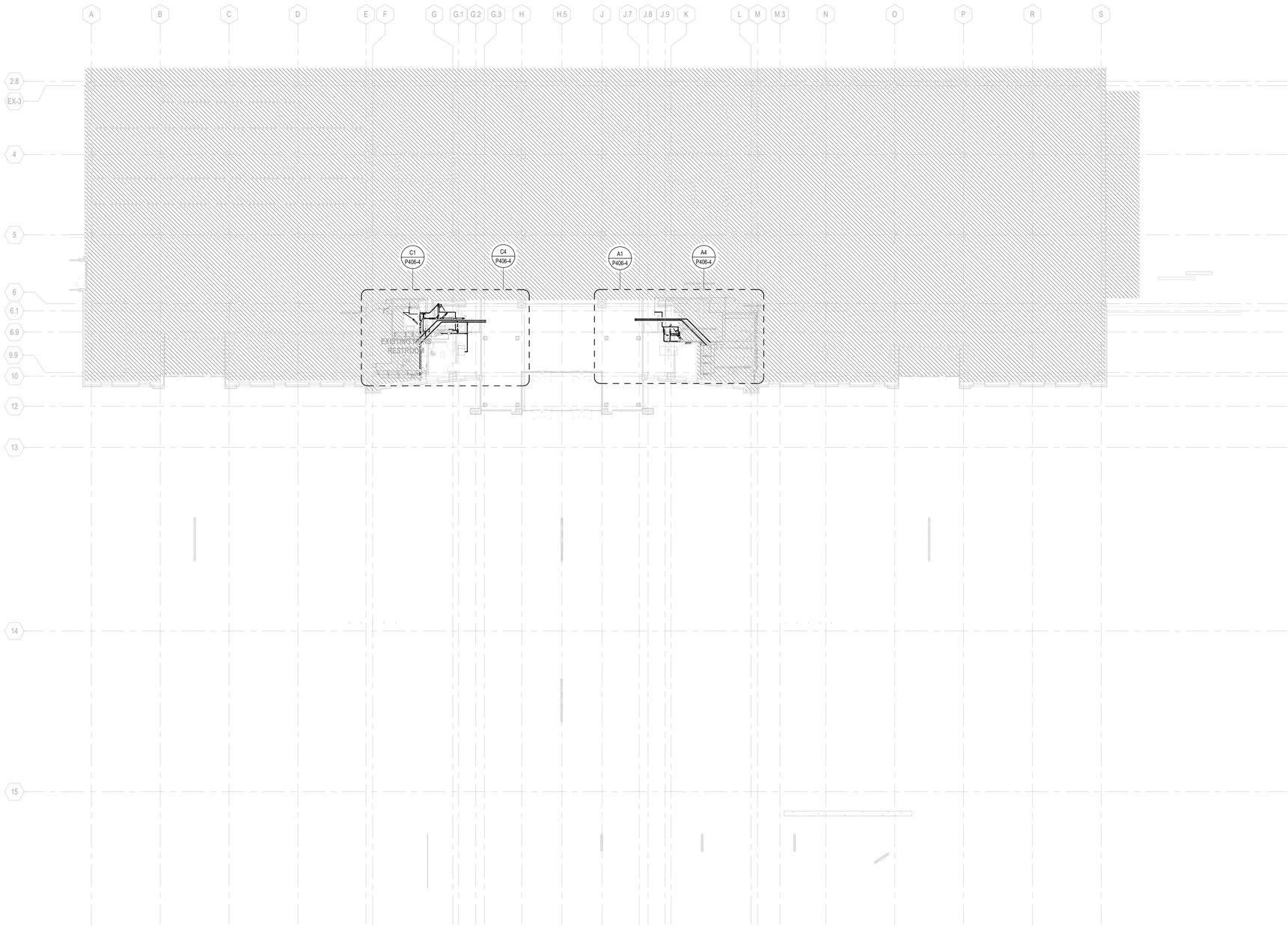

PN

N

B2 OVERALL TICKET LEVEL PLUMBING PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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PROJECT TITLE:
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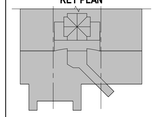
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	KMN
DRAWN BY:	CDW
DESIGNED BY:	RSS

PROJECT NUMBER:
1003-0070-004

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OVERALL TICKET LEVEL PLUMBING PLAN

SHEET ID:
P106-4

PROJECT STATUS:
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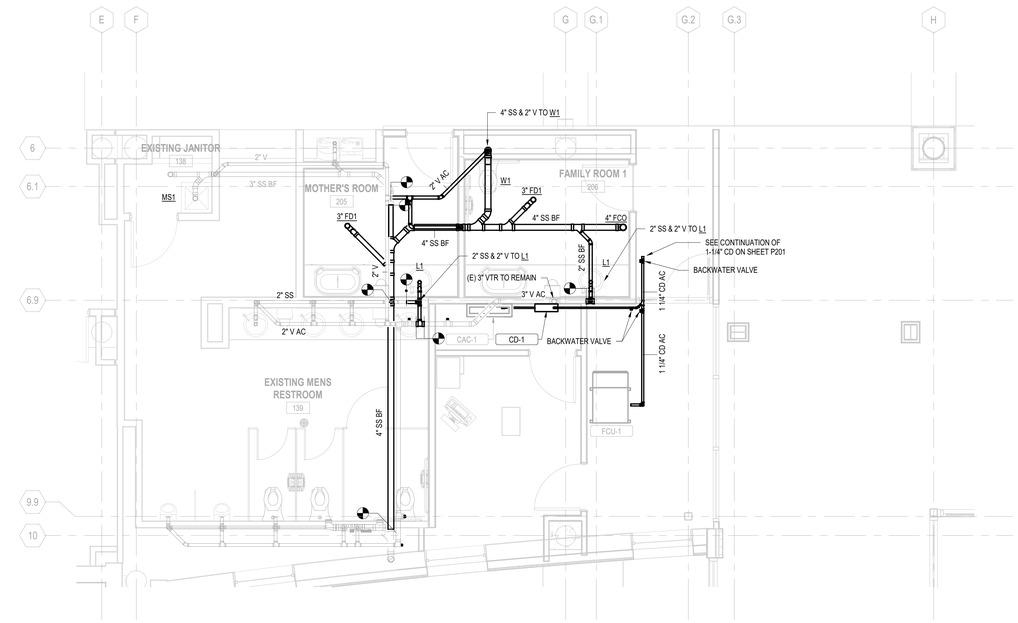

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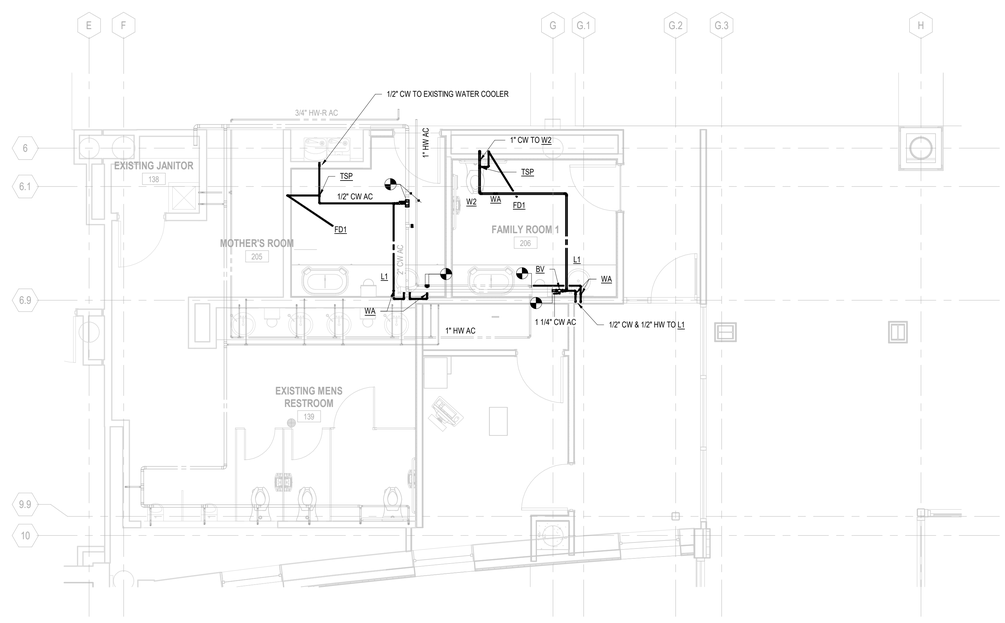
C1 ENLARGED TICKET LEVEL DRAINAGE WASTE AND VENT PIPING PLAN

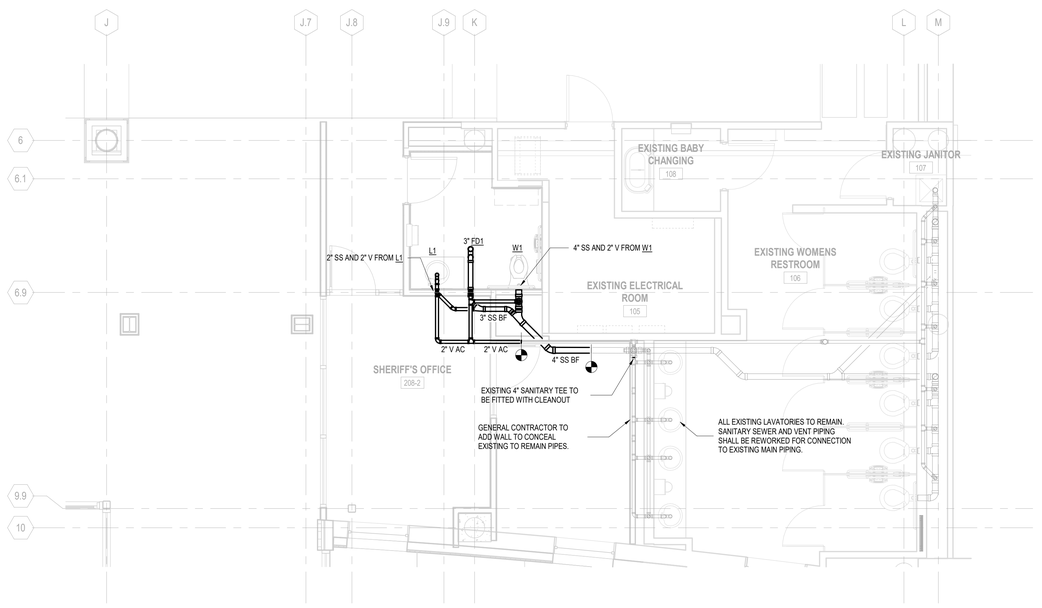
SCALE: 1/4" = 1'-0"



PN

C4 ENLARGED TICKET LEVEL PRESSURE PIPING PLAN

SCALE: 1/4" = 1'-0"



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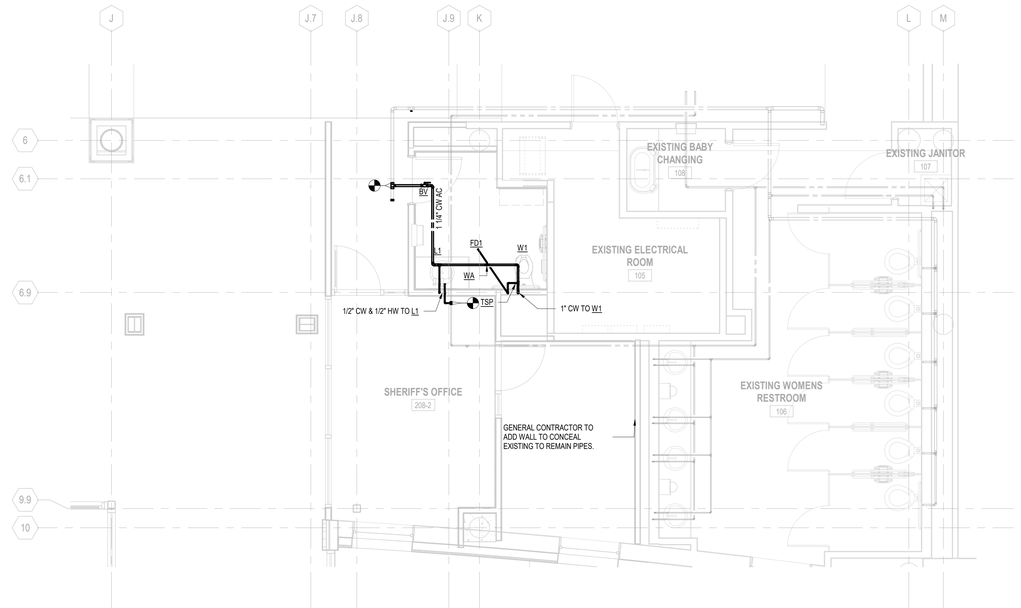
A1 ENLARGED TICKET LEVEL DRAINAGE WASTE AND VENT PIPING PLAN

SCALE: 1/4" = 1'-0"



PN

A4 ENLARGED TICKET LEVEL PRESSURE PIPING PLAN

SCALE: 1/4" = 1'-0"

4 0 4 8

SCALE: 1/4" = 1'-0"

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: KMN
DRAWN BY: CDW
DESIGNED BY: RSS
PROJECT NUMBER: 1003-0070-004

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ENLARGED TICKET LEVEL PLUMBING PLAN

SHEET ID:
P406-4

PROJECT STATUS:
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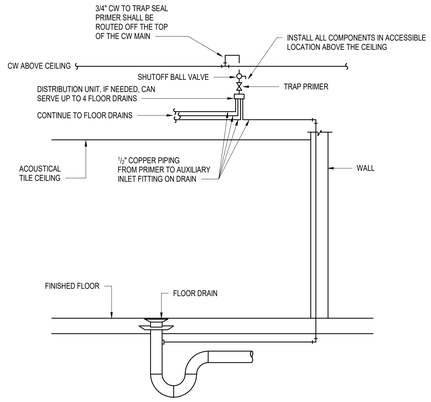
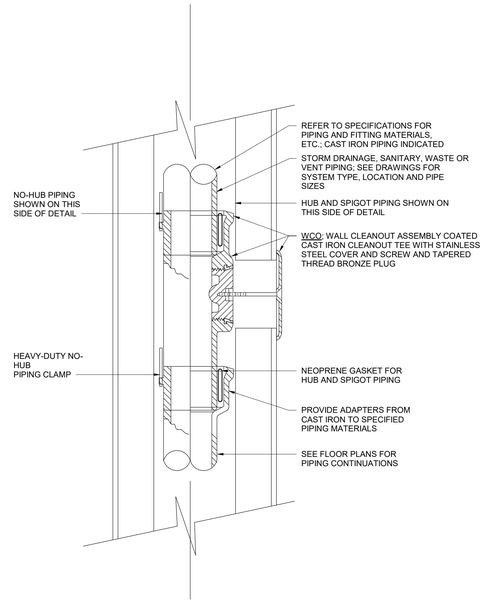


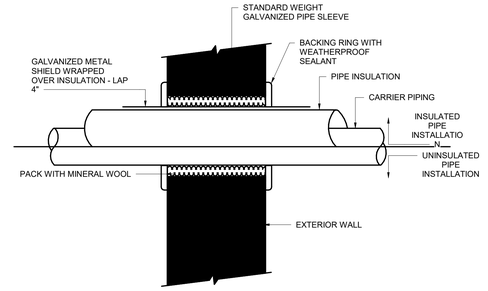
C2 TRAP PRIMER DETAIL

SCALE: N.T.S.



C3 WALL CLEANOUT (WCO) ASSEMBLY

SCALE: N.T.S.



C5 PIPING WALL SLEEVE DETAIL

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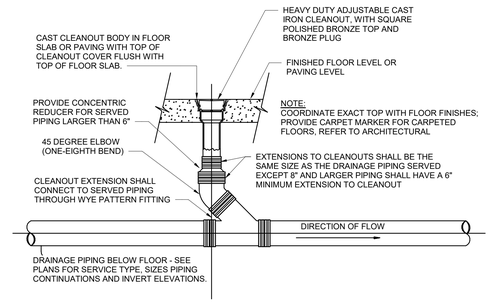

B2 FLOOR CLEANOUT (FCO) DETAIL

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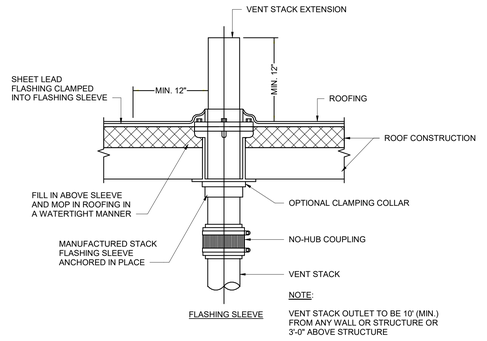

B3 VENT THRU ROOF DETAIL

SCALE: N.T.S.

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	KMN
DRAWN BY:	MA
DESIGNED BY:	RSS

PROJECT NUMBER:
1003-0070-004

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PLUMBING DETAILS

SHEET ID:
P501-4

PROJECT STATUS:
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FIXTURE AND EQUIPMENT SCHEDULE

DESIGNATION	DESCRIPTION	SANITARY	VENT	HOT	COLD	TEPID	FIXTURE - MAN/MOD	SEAT	FLUSH VALVE MODEL	CARRIER MODEL	FAUCET - MAN/MOD	SUPPLIES	DRAIN ASSEMBLY	NOTE	REMARKS
W1	ADA WALL MTD. WATER CLOSET	4"	2"	-	1"	-	SLOAN - ST-2459	KOHLER K-4670-C-0	ECOS 111-1.6-HW	ZURN Z1202-N4	-	-	-		ELONGATED BOWL, EXPOSED HARDWIRED SENSOR FLUSH VALVE. MOUNT AT 17" AFF
W2	ADA WALL MTD. WATER CLOSET	4"	2"	-	1"	-	SLOAN - ST-2459	KOHLER K-4670-C-0	ECOS 111-1.6-HW	ZURN Z1202-N4 OR ZURN Z1203-N MATCHING EXISTING CONDITION	-	-	-	ALT 1 ONLY	SAME AS W1
W3	ADA FLOOR MTD. WATER CLOSET	4"	2"	-	1"	-	SLOAN - ST-2029	KOHLER K-4670-C-0	ECOS 111-1.6-HW					ALT 1 ONLY	ELONGATED BOWL, EXPOSED HARDWIRED SENSOR FLUSH VALVE.
U1	WALL MTD. URINAL	2"	2"	-	3/4"	-	SLOAN - SU-1009	-	CROWN 186 ESS-1.0-L/OR-HW	ZURN Z1222	-	-	-	ALT 1 ONLY	EXPOSED HARDWIRED SENSOR FLUSH VALVE.
L1	ADA UNDERMOUNT LAVATORY	2"	2"	1/2"	1/2"	-	KOHLER K-2882-0	-	-	-	SLOAN - EFX-200-PLG-TEE-CP-O.5GPM-MLM-IR	PPP - MM-500	McGUIRE PW 2125		PROVIDE WITH PLUG IN TRANSFORMER AND DAISY CHAIN ELECTRICAL CABLE SYSTEM FOR UP TO SIX(6) FAUCETS. PROVIDE SLOAN ETF-460A 1-1/2" CHROME PLATED BRASS STRAINER.
FD1	FLOOR DRAIN	AS NOTED	AS NOTED	-	-	-	MIFAB - F1000-C-S-7	-	-	-	-	-	P-TRAP DEEP SEAL		6" ROUND SS TOP, PROVIDE WITH SMITH 7222S 3" CAST IRON DEEP SEAL TRAP & QUICK DRAIN CONNECTOR FOR SERVICE WEIGHT CAST IRON AND 1/2" TRAP SEAL PRIMER CONNECTION.
FD2	FLOOR DRAIN	AS NOTED	AS NOTED	-	-	-	JAY R SMITH - 2110Y-G-L-B-P050	-	-	-	-	-	P-TRAP DEEP SEAL		8" ROUND NB TOP, SERVICE WEIGHT GASKET, SEDIMENT BUCKET, MITH 7222S 3" CAST IRON DEEP SEAL TRAP & QUICK DRAIN CONNECTOR FOR SERVICE WEIGHT CAST IRON AND 1/2" TRAP SEAL PRIMER CONNECTION.
FCO	FLOOR CLEANOUT	AS NOTED	-	-	-	-	JAY R SMITH - 4020-4034	-	-	-	-	-	-		ADJUSTABLE COATED CAST IRON W/ POLISHED STAINLESS STEEL TOP, NO-HUB CONNECTION.
WCO	WALL CLEANOUT	AS NOTED	-	-	-	-	ZURN - Z1446	-	-	-	-	-	-		DURA-COATED CAST IRON BODY WITH COUNTER-SUNK PLUG. PROVIDE WITH SS ACCESS COVER.
SHWR1	SHOWER	3"	2"	3/4"	3/4"	-	DELTA T13291	-	-	-	-	-	-		COMMERCIAL SHOWER SYSTEM KIT, 1.75 GPM. TEMPERATURE BY METAL LEVER HANDLE WITH 120 DEGREE HANDLE ROTATION. PROVIDE WITH FD1 DRAIN LOCATED AS SHOWN ON PLAN.
RD	ROOF DRAIN	SEE PLANS	-	-	-	-	SMITH 1010Y-L-C-U	-	-	-	-	-	-		ADJUSTABLE 15-1/4" DIAMETER ROOD DRAIN WITH BOTTOM NO-HUB OUTLET, UNDERDECK CLAMP, VANDAL PROOF POLYETHYLENE DOME. SEE PLANS FOR OUTLET SIZE REQUIRED.
ORD	OVERFLOW ROOF DRAIN	SEE PLANS	-	-	-	-	SMITH 1045Y-WD02-L-C	-	-	-	-	-	-		ADJUSTABLE 15-1/4" DIAMETER ROOD DRAIN WITH 2" EXTERIOR WATER DAM, BOTTOM NO-HUB OUTLET, UNDERDECK CLAMP, VANDAL PROOF POLYETHYLENE DOME. SEE PLANS FOR OUTLET SIZE REQUIRED.

TRAP SEAL PRIMER AND DISTRIBUTION UNIT SCHEDULE

MARK	DRAINS	FIXTURE UNITS CAPACITY	INLET NPT	OUTLET NPT	NOTES
TSP	1	1 - 11	3/4"	5005	1,2,3

NOTES:

1. ALL FLOOR DRAINS (EXCEPT MOP BASINS AND FLOOR SINKS) SHALL BE PRIMED. INSTALL ALL COMPONENTS OF PRIMING SYSTEM IN STRICT ACCORDANCE WITH THE 2024 NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE. DRAINS SHALL BE PRIMED VIA PRIMING VALVES AS INDICATED OR AS REQUIRED WHERE NOT SHOWN. PRIMERS SHALL BE ACTIVATED BY A PRESSURE DROP OF 3 PSI MINIMUM. PRIMERS SHALL BE TESTED AND CERTIFIED TO ASSE STANDARD 1018 AND LISTED WITH IAPMO. INSTALL IN STRICT COMPLIANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. INSTALL PRIMERS IN EASILY ACCESSIBLE LOCATIONS. PRIMER SHALL NOT REQUIRE ANY FIELD ADJUSTMENTS.

2. UNITS SHALL BE CAPABLE OF PROPER FUNCTION WHEN INSTALLED OUT OF PLUMB OR LEVEL. A METERED AMOUNT OF WATER SHALL BE DISTRIBUTED TO SINGLE AND MULTIPLE DRAINS EQUALLY AND UNIFORMLY. PROVIDE WITH REMOVABLE FILTER SCREEN. OPERATING RANGE 20 PSI TO 80 PSI.

3. PRIMER OPERATION SHALL BE VERIFIABLE VIA INSPECTION THROUGH PORTS AT THE DISCHARGE SECTION WHICH PASS THROUGH THE ENTIRE DEVICE TO ALLOW LIGHT TO PASS THROUGH TO EASE VERIFICATION OF OPERATION. SECURE AND PROTECT PIPING FROM DAMAGE AND THE ENTRANCE OF DEBRIS DURING CONSTRUCTION. THOROUGHLY FLUSH ALL PIPING AND PRE-CYCLE PRIMERS AT LEAST SIX TIMES AND VERIFY PROPER OPERATION.

WATER HAMMER ARRESTER SCHEDULE

MARK	ASSE RATING	FIXTURE UNITS CAPACITY	MINIMUM PIPE SIZE	MODEL NUMBER	NOTES
WAA	AA	1 - 3	1/2"	CL-AA-NPB	1,2,3
WA	A	1 - 11	1/2"	CL-A-NPB	1,2,3
WB	B	12 - 30	3/4"	CL-B-NPB	1,2,3

NOTES:

1. PROVIDE ARRESTERS ETC., AS NOTED HEREIN AND PER STANDARD ASSE-1010 AT EACH FIXTURE GROUP AND INDIVIDUAL FIXTURE. ARRESTERS SHALL BE AS MANUFACTURED BY MIFAB, OR APPROVED EQUAL. INSTALL ARRESTERS WHERE SHOWN, IF INDICATED. ARRESTERS MAY NOT BE GRAPHICALLY INDICATED. INSTALL ARRESTERS, ETC., ABOVE CEILINGS UNLESS OTHERWISE NOTED.
2. ARRESTERS SHALL BE PISTON TYPE. ARRESTERS SHALL BE CONSTRUCTED OF THICK WALL, HARD DRAWN "K" COPPER BODY.
3. PROVIDE BALL VALVE (BV) BETWEEN SUPPLY PIPE & ARRESTER. ARRESTERS AND BV SHALL BE ACCESSIBLE. PROVIDE AP WHERE REQUIRED TO ACHIEVE ACCESS. ACCESS PANELS SHALL BE AS MANUFACTURED BY MIFAB OR APPROVED EQUAL, SERIES CAD-DW, CAD-PL OR MPFR FOR WALLS OR CEILINGS.

PLUMBING PUMP SCHEDULE

MARK	SERVICE	CONTROL ON	CONTROL OFF	GPM	TDH	PSI	HP	VOLTAGE	PHASE	HERTZ	NOTES
BFDP-1	BFP DRAIN	FLOAT SWITCH	FLOAT SWITCH	38	15	-	1/2	115	SINGLE	60	1, 2

NOTES:

1. BASIS OF DESIGN IS LIBERTY 405 SERIES COMMERCIAL FREESTANDING ABOVE GRADE DRAIN PUMP. THE PUMP SHALL BE CONTROLLED WITH A PIGGY BACK STYLE ON/OFF FLOAT SWITCH. PROVIDE ELECTRICAL POWER CORD FOR CONNECTION. THE MOTOR SHALL HAVE INTEGRAL THERMAL OVERLOAD SWITCH. COORDINATE 110V ELECTRICAL RECEPTICAL WITH ELECTRICAL CONTRACTOR.
2. BFDP-1 IS INCLUDED IN THE ALTERNATIVE 2 SCOPE ONLY.

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: KMN
DRAWN BY: MA
DESIGNED BY: RSS
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1003-0070-004
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SHEET TITLE:
PLUMBING SCHEDULES

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PROJECT STATUS:
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GENERAL MECHANICAL SYMBOLS

Symbol	Description
	REVISION NUMBER - SHOWN ON PLANS
	POINT WHERE NEW CONNECTS TO EXISTING
	DISCONNECT SYMBOL
XX	NUMBER OF DETAIL ON SHEET
XXXX	NUMBER OF SHEET WHERE DETAIL APPEARS
0	KEYNOTE
	CONTINUATION SYMBOL
Room 5	ROOM NAME AND NUMBER
	EXISTING CONSTRUCTION
	AREA NOT IN CONTRACT
2"	PIPE SIZE TAG (DIAMETER)
	ABOVE GROUND PIPING
1/8" / 12" SLOPE	PIPE SLOPE TAG
	BELOW GROUND PIPING
INVERT: -105' - 1"	PIPE INVERT ELEVATION TAG
(E)	EXISTING PIPE TAG
	PIPING BEING DEMOLISHED

ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACS	AIR CONDITIONING SYSTEM
ACU	AIR CONDITIONING UNIT
ADJ	ADJUSTABLE
AF	AIRFOIL
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AS	AIR SEPARATOR
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BD	BELT DRIVE
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BTUH	BRITISH THERMAL UNIT/HOUR
C	CONDENSATE
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CD	CONDENSATE DRAIN
CDL	CONDENSATE DRAIN LINE
CFF	CAPPED FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHWP	CHILLED WATER PUMP
CHWR	CHILLER WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	CEILING
CONC	CONCRETE
CONT	CONTINUOUS
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CS	CURRENT SENSOR
CT	CONTROL TRANSFORMER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER
CWR	CONDENSOR WATER RETURN
CWS	CONDENSOR WATER SUPPLY
DB	DRY BULB
DD	DIRECT DRIVE
DIFF	DIFFUSER
DL	DOOR LOUVER
DMPR	DAMPER
DN	DOWN
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DTS	DUCT TEMPERATURE SENSOR
DWDI	DOUBLE WIDTH, DOUBLE INLET
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ENT	ENTERING
EQ	EQUAL
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FC	FORWARD CURVED
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FF	FINAL FILTER
FG	FLOOR GRILLE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE CONNECTION
FLR	FLOOR
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
FR	FLOOR RETURN
FT	FAN TERMINAL
FTR	FINNED TUBE RADIATION
FTU	FAN POWERED VAV TERMINAL UNIT
GA	GAUGE
GAL	GALLON

GALV	GALVANIZED
GH	GRAVITY HOOD
GPM	GALLONS PER MINUTE
GUV	GRAVITY UNIT VENTILATOR
H	HUMIDIFIER
HC	HEATING COIL
HP	HORSEPOWER
HRC	HEAT RECOVERY UNIT
HVAC	HEATING VENTILATION AND AIR
HVU	HEATING AND VENTILATING UNIT
HWC	HOT WATER COIL
IN WC	INCH OF WATER COLUMN
IN WG	INCH OF WATER GAUGE
IRH	INFRARED HEATER
ISOTR	ISOLATION TRANSFORMER
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMP
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MIN	MINIMUM
MZ	MULTI-ZONE
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE (NFPA-70)
No	NUMBER
OAHU	OUTSIDE AIR HANDLING UNIT
OPNG	OPENING
P	PUMP
PD	PRESSURE DROP
PF	PRE-FILTER
PH	PREHEAT COIL
PHWP	PRIMARY HOT WATER PUMP
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RAF	RETURN AIR FAN
RELA	RELIEF AIR
REQD	REQUIRED
RG	RETURN AIR GRILLE
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMP
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SENSOR
RTS	ROOM TEMPERATURE SENSOR
RTU	ROOF TOP UNIT
S	SMOKE DETECTOR
SA	SOUND ATTENUATOR
SCHWP	SECONDARY CHILLED WATER PUMP
SF	SUPPLY FAN
SF	SQUARE FEET
SHWP	SECONDARY HOT WATER PUMP
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STR	STARTER
SW	SWITCH
T	TEMPERATURE SENSOR
TA	TRANSFER AIR
TAO	TRANSFER AIR OPENING
TEFC	TOTALLY ENCLOSED FAN COOLED
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TOAC	TRANSFER OPENING ABOVE CEILING
TSTAT	THERMOSTAT
TUX	TERMINAL UNIT CONTROLLER
TYP	TYPICAL
UH	UNIT HEATER
UTR	UP THROUGH ROOF
V-PH-HZ	VOLTS-PHASE-HERTZ
VAF	VENTILATION AIR FAN
VAFC	VENTILATION AIR FAN CONTROLLER
VAV	VARIABLE AIR VOLUME
VCD	VOLUME CONTROL DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VP	VACUUM PUMP
VTR	VENT THRU ROOF
W	WATTS
WB	WET BULB
WHP	WATER SOURCE HEAT PUMP
WP	WEATHER PROOF
WWF	WOVEN WIRE FABRIC

HVAC SYMBOLS

Symbol	Description
16"X8"	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
16"Ø	ROUND DUCT SIZE TAG (DIAMETER)
(E)	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
S/A SUPPLY AIR	SUPPLY AIR
O/A OUTSIDE AIR	OUTSIDE AIR
R/A RETURN AIR	RETURN AIR
T/A TRANSFER AIR	TRANSFER AIR
E/A EXHAUST AIR	EXHAUST AIR
L/A RELIEF AIR	RELIEF AIR
GE/A GREASE EXHAUST AIR	GREASE EXHAUST AIR
DROP	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
DROP	ROUND SUPPLY/OUTSIDE AIR DUCT RISE
DROP	RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
DROP	ROUND RETURN/TRANSFER AIR DUCT RISE
DROP	RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
DROP	ROUND EXHAUST/RELIEF AIR DUCT RISE

GRILLES, REGISTERS & DIFFUSERS TAG

400 CFM 10"Ø	D 500 CFM 12"X10"	500 CFM 12"X10"
3-CONE DIFFUSER	LOUVERED GRILLE	EGGCRATE RETURN GRILLE

MECHANICAL EQUIPMENT TAGS

Description	Tag
HEATING COIL FLOW	VAV-XX, Htg: 3.7 GPM, VAV BOX
BOTTOM OF EQUIPMENT ELEVATION	VAV-XX, 10' - 0"
EXISTING EQUIPMENT TO REMAIN	(E)VAV-XX
EXISTING RELOCATED EQUIPMENT	(R)VAV-XX
EQUIPMENT BY OTHERS (REFER TO OTHER DISCIPLINE FOR ADDITIONAL INFORMATION)	VAV-XX
AIR HANDLING UNIT	DOAS-XX

DATA DEVICE TAGS

SYMBOL
EQUIPMENT ID

Sensor	Symbol	Symbol	Equipment ID	Description
CARBON DIOXIDE SENSOR	CO2	TH	RTU-XX	TEMPERATURE & HUMIDITY SENSOR
CARBON MONOXIDE SENSOR	CO	TS	VAV-XX	TEMPERATURE SENSOR
NITROGEN DIOXIDE SENSOR	NO2	T		THERMOSTAT
HUMIDITY SENSOR	HS	MS		MANUAL SWITCH
HUMIDISTAT	H	S		SENSOR

DAMPER TAGS

Damper	Tag	Tag	Damper
FIRE DAMPER	F	B	MANUAL BALANCING DAMPER
SMOKE DAMPER	S	D	BACKDRAFT DAMPER
MOTORIZED DAMPER	M	C	COMBINATION FIRE/SMOKE DAMPER

PIPING SYMBOLS

Tag	Description
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
G	NATURAL GAS
PG	PROPANE GAS
REF-L	REFRIGERANT-LIQUID
REF-S	REFRIGERANT-SUCTION
REF-HG	REFRIGERANT-HOT GAS
STM	STEAM
CDR	CONDENSATE RETURN

PIPE DROP
PIPE RISE
PIPE TEE
CAP

4" 2" 4"
PLUG
REDUCING 45 DEGREE TEE
45 DEGREE TEE

PIPE ACCESSORY TAGS

Tag	Description
2" DOM. WM	DOMESTIC WATER METER
2" BALANCING	BALANCING VALVE
2" SHUTOFF	1/4 TURN BALL VALVE
2" CHECK	CHECK VALVE
2" TMV	3-WAY MIXING VALVE
2" M-CNTRL	MOTORIZED CONTROL VALVE
2" 3-WAY CNTRL	3 WAY MOTORIZED CONTROL VALVE
2" REGULATOR	PRESSURE REGULATING VALVE
2" BUTTERFLY	BUTTERFLY VALVE

GENERAL NOTES

1. PROVIDE COMPLETE PRODUCT DATA (SIZE, WEIGHT, OPERATING CHARACTERISTICS, WIRING DIAGRAMS, ETC.) FOR ALL EQUIPMENT AND DEVICES SPECIFIED ON THE DRAWINGS.
2. ALL HVAC SYSTEMS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODE REQUIREMENTS, STATE MECHANICAL CODE, STATE PLUMBING CODE, NATIONAL ELECTRICAL CODE AND STATE BUILDING CODE.
3. SMOKE DETECTORS ARE FURNISHED BY DIVISION 26 AND INSTALLED IN DUCTWORK AND AHU's BY DIVISION 23.
4. PROVIDE OFFSETS IN NEW DUCT AND PIPING SYSTEMS AS REQUIRED TO FACILITATE INSTALLATION OF NEW WORK AT NO ADDITIONAL COST TO THE CONTRACT.
5. PROVIDE 45 DEGREE ENTRANCE AND EXIT TAPS AT DUCT BRANCH CONNECTIONS.
6. ALL NON-GALVANIZED SUPPORTS AND HANGERS FOR DUCTWORK, PIPING, AND EQUIPMENT MUST BE CLEANED OF DEBRIS AND RUST, PROPERLY PREPPED, PRIMED AND PAINTED. REFER TO DIVISION 9 OF SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
7. THE INSIDE OF DUCTWORK THAT IS VISIBLE THROUGH A DIFFUSER, REGISTER OR GRILLE, MUST BE PAINTED FLAT BLACK.
8. PROVIDE CEILING ACCESS PANELS IN HARD CEILINGS TO ACCESS AND SERVICE FIRE DAMPERS, SMOKE DAMPERS, CONTROL DAMPERS, TERMINAL BOXES, VALVES AND EQUIPMENT LOCATED ABOVE THEM. REFER TO SPEC SECTION 08305 FOR ACCESS DOOR REQUIREMENTS.
9. IN ADDITION TO THE SPECIFICATION REQUIREMENTS AND PRIOR TO ORDERING EQUIPMENT AND INSTALLATION OF NEW WORK, SUBMIT A COMPOSITE SHOP DRAWING (1/4" MIN. SCALE PLAN AND SECTIONS) SHOWING DUCTWORK, PIPING AND EQUIPMENT LAYOUT. THIS SHOP DRAWING MUST ALSO INDICATE MAINTENANCE/SERVICE SPACE FOR ALL EQUIPMENT.
10. CONCRETE PADS FOR MECHANICAL EQUIPMENT MUST BE SIZED, LOCATED AND PROVIDED BY DIVISION 23. PROVIDE 4" HIGH x UNIT LENGTH PLUS 4" x UNIT WIDTH PLUS 4" CONCRETE PADS FOR ALL HVAC EQUIPMENT MOUNTED ON GRADE OR FLOOR SLAB.
11. MANUAL VOLUME DAMPERS MUST HAVE OPPOSED BLADE TYPE DAMPERS.
12. WALL LOUVERS ARE INDICATED FOR INFORMATION ONLY. SEE MECHANICAL LOUVER SCHEDULE FOR SIZE AND ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION.
13. VERIFY ALL EQUIPMENT WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
14. ALL DIFFUSER AND REGISTER LOCATIONS IN SUSPENDED CEILINGS MUST BE COORDINATED WITH REFLECTED CEILING PLANS, SPRINKLER PLANS AND ELECTRICAL PLANS BEFORE INSTALLATION.
15. ALL DUCTWORK MUST BE INSTALLED AS CLOSE AS POSSIBLE TO WALLS AND UNDERSIDE OF BEAMS UNLESS OTHERWISE NOTED.
16. PROVIDE ACCESS PANELS IN DUCTWORK FOR OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL FANS, VALVES, FIRE DAMPERS, CONTROL DAMPERS, SMOKE DETECTORS, AND AIRFLOW MEASURING STATIONS.
17. FLEXIBLE DUCT CONNECTING MAIN DUCT TO SUPPLY DIFFUSER OR AIR BOOT MUST NOT EXCEED 8 FEET IN LENGTH. IF THIS DISTANCE EXCEEDS THIS LIMIT, AN INSULATED METAL DUCT OF REQUIRED LENGTH AND EQUAL DIAMETER MUST BE INSTALLED WITH DAMPER AT MAIN DUCT TO REDUCE FLEXIBLE DUCT TO MAXIMUM LENGTH OF 8 FEET.
18. ALL DUCT MUST BE GROUNDED ACROSS FLEXIBLE CONNECTIONS WITH FLEXIBLE COPPER BRAIDED GROUNDING STRAP.
19. ALL RETURN AIR OPENINGS ABOVE CEILINGS MUST BE PROVIDED WITH REMOVABLE 1/2 INCH WIRE MESH ALUMINUM SCREEN AND FRAME AT ALL LOCATIONS WHERE GRILLES AND REGISTERS ARE NOT UTILIZED.
20. ALL DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
21. UNLESS OTHERWISE INDICATED ALL CONDENSATE DRAIN LINES FROM EACH AHU OR FAN COIL UNIT COOLING COIL MUST BE PIPED FULL SIZE OF DRAIN OUTLET, WITH P-TRAP TO FLOOR DRAIN OR JANITOR SINK.
22. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., MUST BE SUPPORTED AS DETAILED AND SPECIFIED. ADDITIONAL SUPPORTS MUST BE PROVIDED AS REQUIRED TO PROPERLY SUPPORT ALL HVAC SYSTEM COMPONENTS.
23. MANUFACTURERS LISTED IN SCHEDULES WERE USED AS A BASIS FOR DESIGN. REFER TO THE SPECIFICATIONS FOR OTHER ACCEPTABLE MANUFACTURERS.
24. ALL FLEXIBLE DUCTWORK MUST BE NOMINAL SIZE AS THE NECK OF THE AIR DEVICE (DIFFUSERS, GRILLES, REGISTERS AND LINEARS) IT SERVES. REFER TO THE AIR DISTRIBUTION DEVICE SCHEDULE FOR NECK SIZES OF AIR DEVICES.
25. PROVIDE SINGLE THICKNESS, TRAILING EDGE TURNING VANES INSIDE ALL 90 AND 45 DEGREE SHEET METAL ELBOWS EXCEPT THOSE USED IN TRANSFER AIR DUCTS AND NON-DUCTED ELBOWS ON RETURN AIR GRILLES AND REGISTERS.
26. CAPPED DUCTS MUST BE BLANKED OFF WITH 18 GAUGE GALVANIZED SHEET METAL, CAULKED TO PROVIDE AN AIR TIGHT SEAL AND EXTERNALLY INSULATED.
27. VFD's IF REQUIRED ARE INDICATED ON THE HVAC EQUIPMENT SCHEDULES AND ARE PROVIDED BY DIVISION 23. UNLESS OTHERWISE NOTED, FIELD LOCATE EACH VFD IN THE SAME ROOM THAT THE EQUIPMENT IT SERVES IS LOCATED. VFD's MUST BE LOCATED SO THEY CAN EASILY BE ACCESSED, HAVE PROPER MAINTENANCE SPACE AND COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS. GROUND VFD's IN ACCORDANCE WITH NEC. VFD's MUST NOT BE MOUNTED ON HVAC EQUIPMENT, UNLESS NOTED OTHERWISE OR FACTORY MOUNTED.
28. COORDINATE ROUTING OF DUCTWORK WITH THE REFLECTED CEILING PLANS, LIGHT FIXTURES, HVAC PIPING, PLUMBING PIPING AND SPRINKLER PIPING. WHEREVER POSSIBLE PROVIDE OFFSETS AND TRANSITIONS TO ROUTE DUCTWORK BETWEEN CEILING MOUNTED LIGHT FIXTURES IN LIEU OF ABOVE THEM.
29. LOUVERS ARE PROVIDED BY GENERAL CONTRACTOR. APPROXIMATE LOUVER PLENUM SIZES ARE INDICATED ON THE DRAWINGS. FIELD VERIFY THE ACTUAL PHYSICAL DIMENSIONS PRIOR TO FABRICATION OF PLENUMS AND CONNECTING DUCTWORK.
30. ALL HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS SHOWN ON THE CONTRACT DRAWINGS MUST BE NEW.
31. SUBMIT COMPLETE SHOP DRAWINGS AND PRODUCT DATA FOR ALL EQUIPMENT AND DEVICES SPECIFIED ON THE HVAC DRAWINGS.
32. CONSTRUCT LOUVER PLENUMS OF 16 GAUGE GALVANIZED STEEL WITH BOTTOM AT 15 DEGREE SLOPE TOWARD LOUVER. PROVIDE 12"x12" INSULATED ACCESS DOOR. INSULATE PLENUM WITH 2" THICK, 3 POUND DENSITY, RIGID BOARD INSULATION AND SEAL ALL JOINTS AND SEAMS WITH 4" WIDE GLASS FABRIC BETWEEN TWO LAYERS OF MASTIC. REFER TO SPECIFICATIONS, FLOOR PLANS AND DETAILS FOR ADDITIONAL REQUIREMENTS.
33. THIS PROJECT REQUIRES COORDINATION DRAWINGS. REFER TO SPECIFICATION SECTIONS 01040, 13000 AND 230050 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
34. DISCREPANCIES AND CONFLICTS BETWEEN MECHANICAL SYSTEMS AND OTHER DISCIPLINE (ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION) DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO CONSTRUCTION OF SUBJECT SYSTEMS. FAILURE TO NOTIFY A/E OF THE SUBJECT PROBLEMS MUST CONSTITUTE ACCEPTANCE OF ALL CONDITIONS AND ANY CORRECTIVE WORK REQUIRED, AS DIRECTED BY A/E. THE SUBJECT CORRECTIVE WORK MUST BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
35. ALL FURNISHED EQUIPMENT MUST FIT THE ALLOCATED SPACE. PROVIDE ALL MODIFICATIONS TO THE OPENINGS, IN ROOF OR SLAB, STEEL SUPPORTS, ELECTRICAL REQUIREMENTS AND ANY OTHER BUILDING COMPONENTS REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF SUBJECT EQUIPMENT.
36. PRIOR TO FINAL INSPECTION OF EQUIPMENT BY A/E, EACH PIECE OF MECHANICAL EQUIPMENT MUST BE CLEANED AND ALL FOREIGN MATERIALS REMOVED. ALL PENETRATIONS THRU UNIT CASINGS MUST BE PROPERLY SEALED AND ALL CONTROL DEVICES MUST BE OPERATIONAL AND CALIBRATED.
37. ALL FINISHES DAMAGED DURING THE INSTALLATION OF NEW HVAC SYSTEM MUST BE REPAIRED TO MATCH EXISTING ADJACENT FINISHES.
38. COORDINATE LOCATION OF HVAC EQUIPMENT AND SYSTEM ROUTINGS SO THAT HVAC EQUIPMENT, PIPING AND DUCTWORK ARE NOT LOCATED ABOVE ELECTRICAL EQUIPMENT, PANELS OR ELEVATOR EQUIPMENT.
39. PROVIDE 3" DEEP 14 GAUGE GALVANIZED STEEL AUXILIARY DRAIN PAN BENEATH FAN COIL UNIT(FCU). DRAIN PAN MUST BE 4" LARGER THAN BOTTOM OF FCU. PROVIDED WITH A LEVEL SENSOR FLOW SWITCH THAT SHUTS DOWN THE FCU OPERATION IF SET LIMITS ARE EXCEEDED.
40. LOUVER MUST BE BLANKED OFF WITH 20 GAUGE GALVANIZED STEEL. DUCTWORK MUST BE CAPPED OR BLANKED -OFF WITH ONE SIZE GREATER THAN THE DUCT IT SERVES. ALL BLANK-OFF's AND CAPS MUST BE CAULKED TO PROVIDE AN AIR AND WATER TIGHT SEAL. LOUVER BLANK-OFF's MUST BE INSULATED WITH RIGID BOARD INSULATION, WELD PENS, GLASS CLOTH AND MASTIC AS SPECIFIED FOR DUCTWORK INSIDE EQUIPMENT ROOMS. DUCTWORK BLANK-OFF's MUST BE INSULATED TO MATCH ADJACENT INSULATION OF THE SUBJECT DUCT.
41. REFER TO CONTROL DRAWINGS FOR BOTH DUCTWORK AND EQUIPMENT DAMPERS (CONTROL, MANUAL BALANCING, BACKDRAFT AND ADJUSTABLE WEIGHTED) THAT MAY NOT BE SHOWN ON THE FLOOR PLANS BUT ARE REQUIRED.
42. PROJECT INCLUDES RETURN AIR PLENUM THROUGHOUT. UTILIZE PLENUM RATED MATERIALS AS NECESSARY.
43. FOR ALL THREE-PHASE MOTORS POWERING MECHANICAL EQUIPMENT IN CONSTANT SPEED APPLICATIONS: PROVIDE FULL VOLTAGE, COMBINATION MAGNETIC TYPE, THREE-PHASE POWER, MOTOR STARTER/CONTROLLERS WITH UNDER VOLTAGE RELEASE, MOTOR CIRCUIT PROTECTOR TYPE DISCONNECT WITH SHORT-CIRCUIT PROTECTION, HANDS-OFF-AUTOMATIC SWITCH AND GREEN PILOT LIGHT IN CONTROL PANEL COVER. PROVIDE THE APPROPRIATE NUMBER OF NORMAL OPEN (N.O.) AND NORMALLY CLOSED (N.C.) CONTACTS REQUIRED TO OPERATE AND CONTROL THE EQUIPMENT IN ACCORDANCE WITH THE SEQUENCES OF OPERATION AS SPECIFIED. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
44. FOR ALL SINGLE-PHASE MOTORS POWERING MECHANICAL EQUIPMENT: PROVIDE ELECTRICAL DISCONNECT AND THE APPROPRIATE NUMBER OF NORMALLY OPEN (N.O.) AND NORMALLY CLOSED (N.C.) CONTACTS REQUIRED TO OPERATE AND CONTROL THE EQUIPMENT IN ACCORDANCE WITH THE SEQUENCES OF OPERATION AS SPECIFIED. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	KMN
DRAWN BY:	MA
DESIGNED BY:	RSS

PROJECT NUMBER:
1003-0070-004
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SHEET TITLE:
MECHANICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET ID:
M001-4

PROJECT STATUS:
100% BID SET

3/14/2025 5:49:38 PM Autodesk Docs://10030070004_ILM TO4 Rdwy Inf Improv Design/20030070006_ILM_TO6_Terminal and Tunnel_MP_R24.rvt

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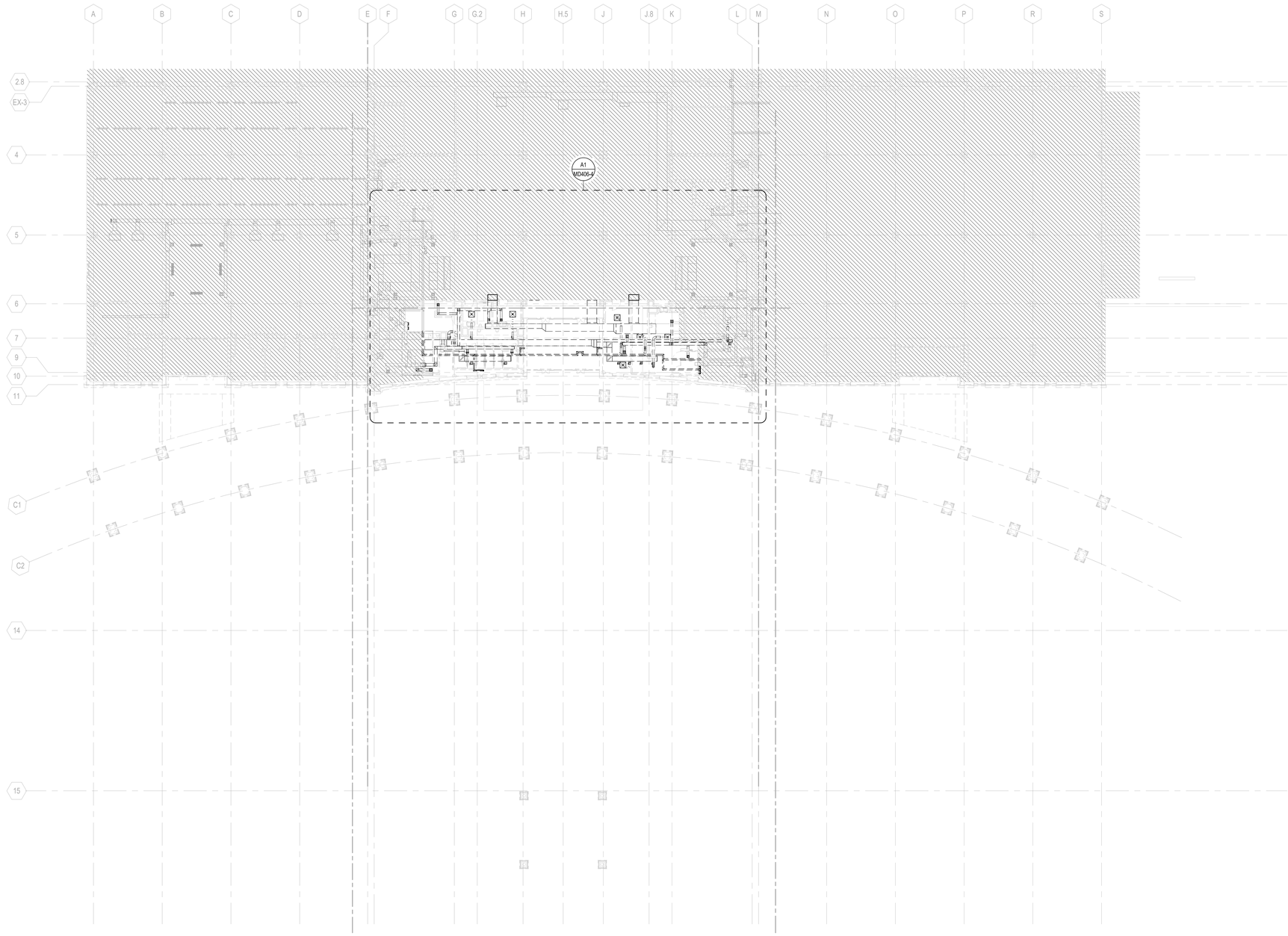
FLOOR PLAN LEGEND
NO WORK IN AREA, U.N.O.



PN
N

A2 OVERALL TICKET LEVEL MECHANICAL DEMOLITION PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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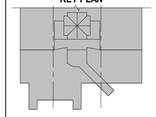
KEY PLAN



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DESIGNED BY:	RSS
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SHEET TITLE:
OVERALL TICKET LEVEL MECHANICAL DEMOLITION PLAN

SHEET ID:
MD106-4

PROJECT STATUS:
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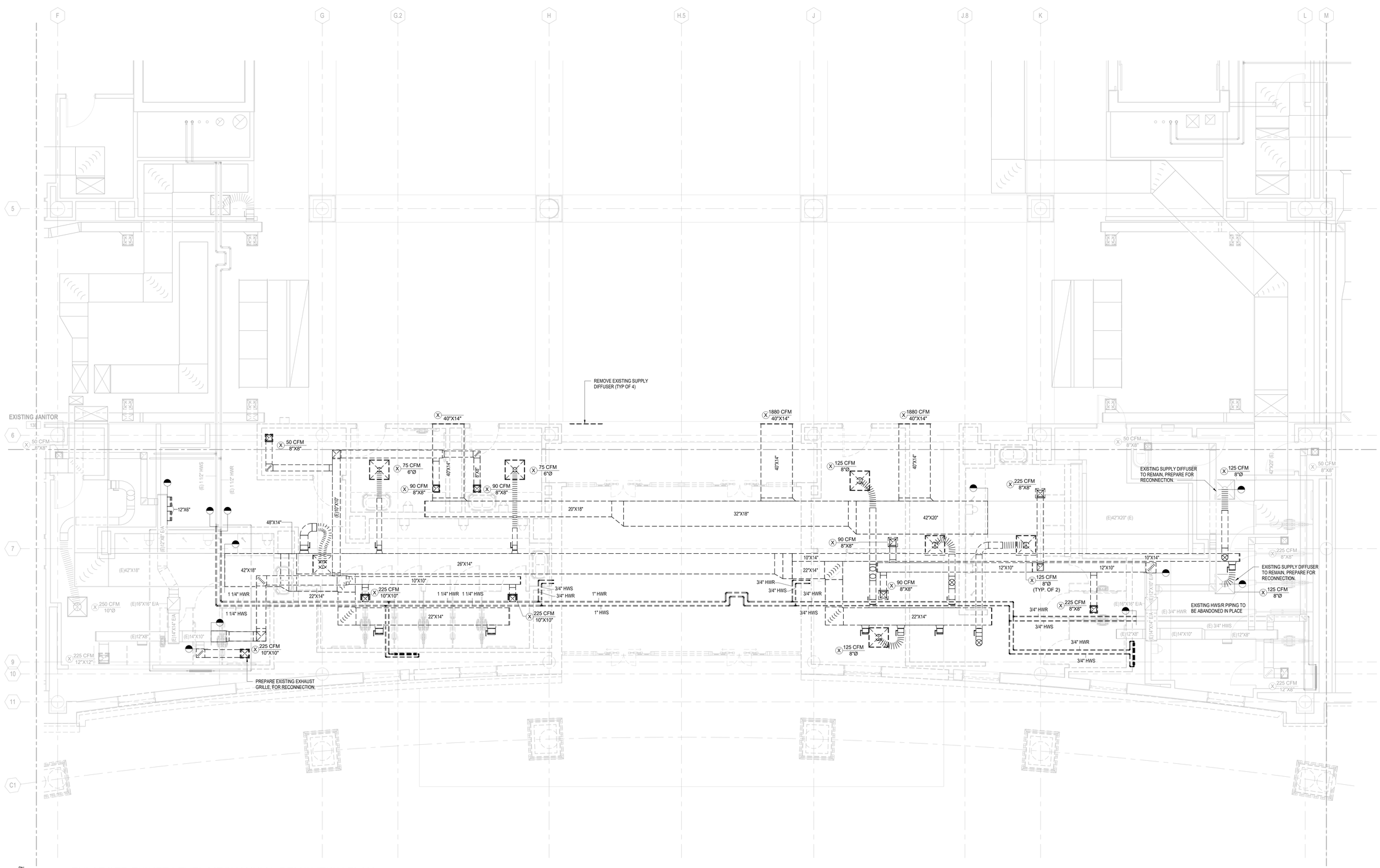

ENLARGED TICKET LEVEL MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"

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PROJECT ADDRESS:
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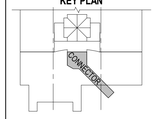
KEY PLAN



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ENLARGED TICKET LEVEL MECHANICAL DEMOLITION PLAN

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FLOOR PLAN LEGEND

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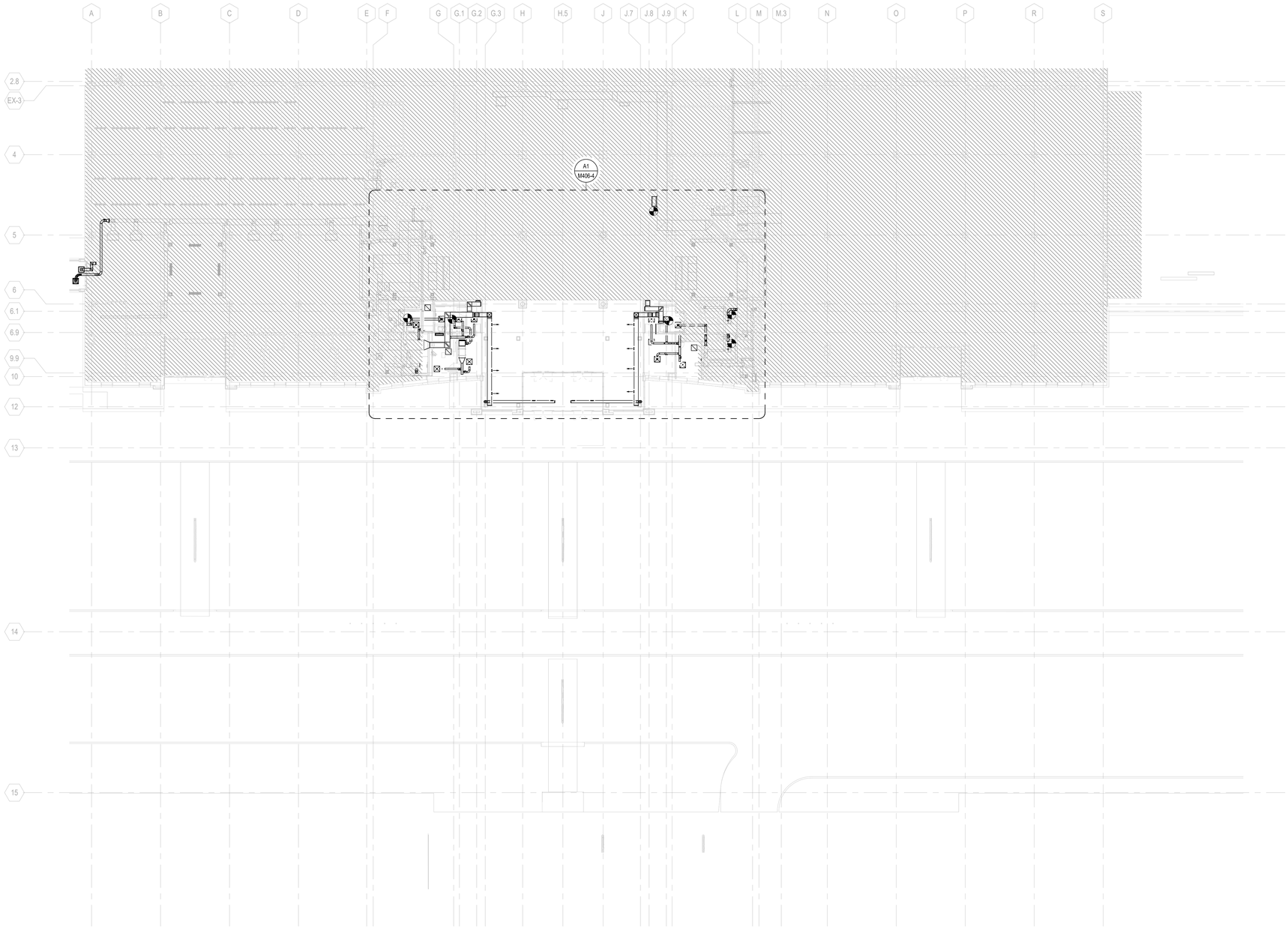

PN

N

A2 OVERALL TICKET LEVEL MECHANICAL PLAN

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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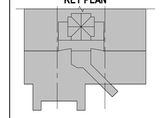
KEY PLAN



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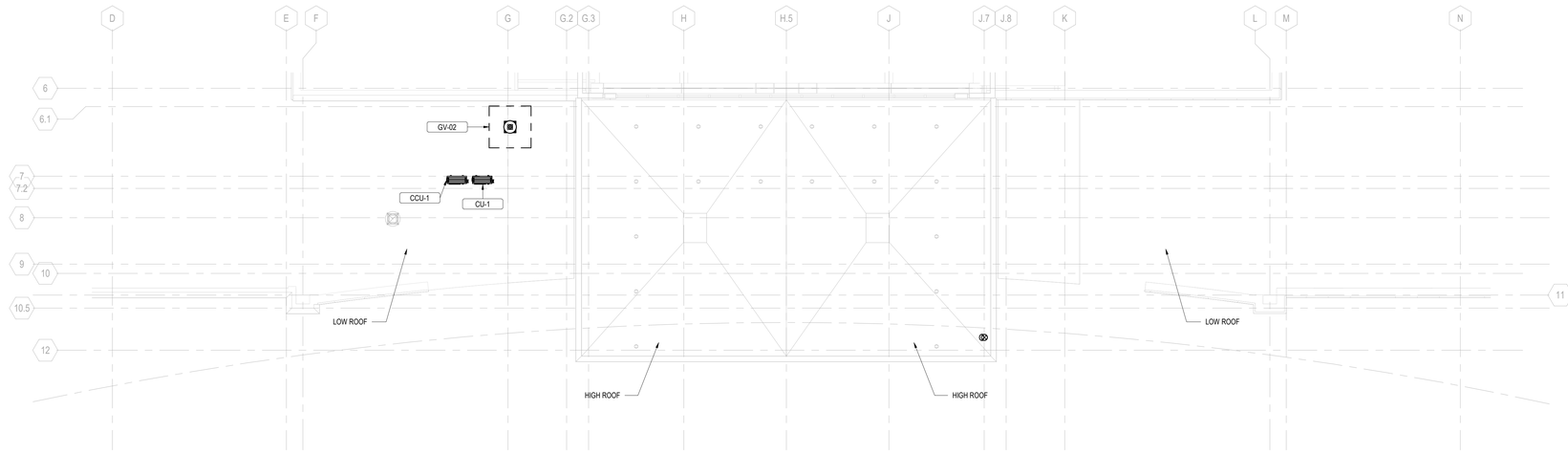

PN
N

D2 OVERALL ROOF LEVEL MECHANICAL PLAN - BID ALT 4

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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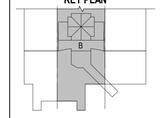
KEY PLAN



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DATE ISSUED: 03/14/2025
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DRAWN BY: CDW
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OVERALL ROOF LEVEL MECHANICAL PLAN

SHEET ID:
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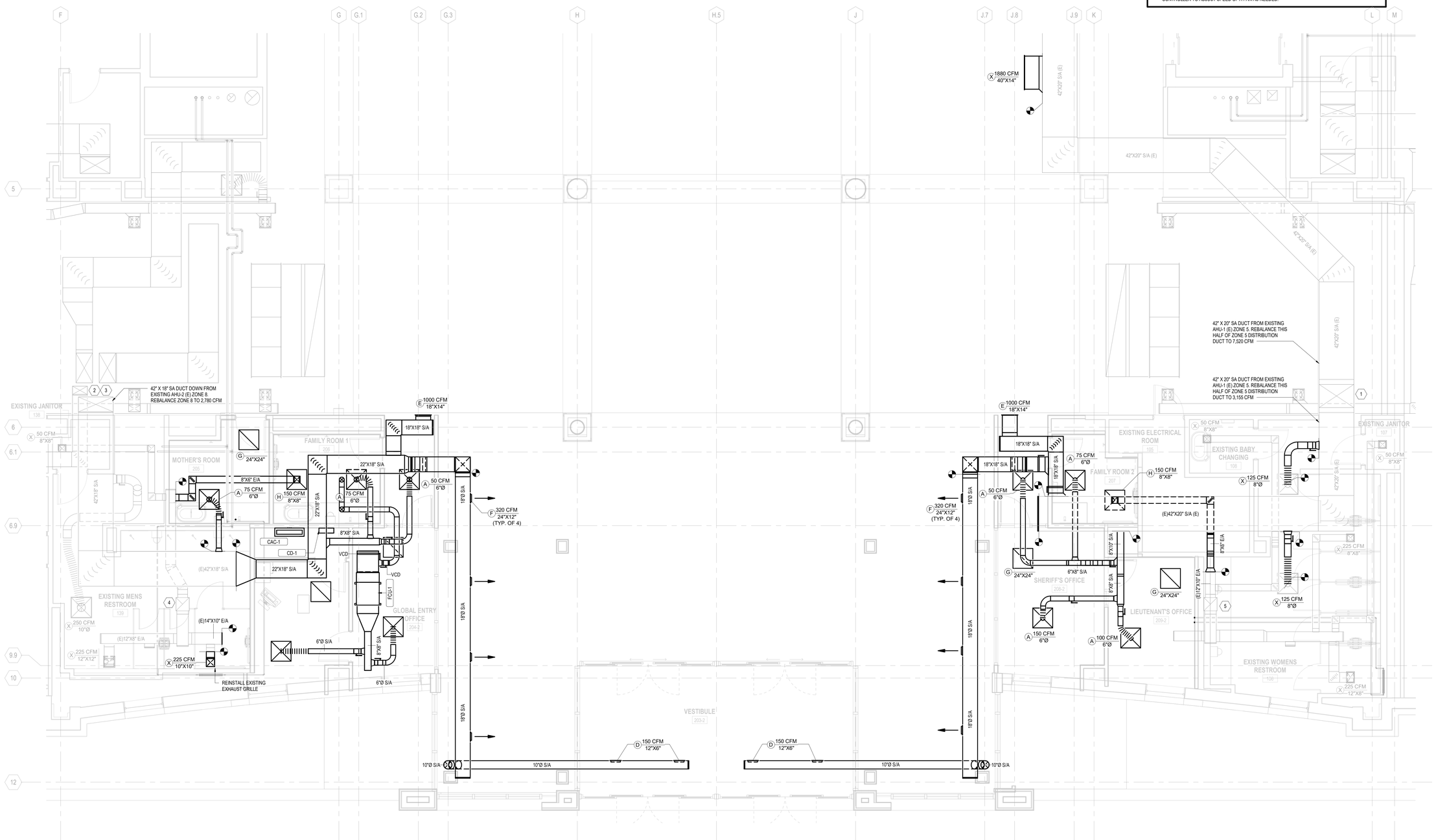
KEYED NOTES

1. EXISTING AHU-1 LOCATED ON THE LEVEL ABOVE SHALL BE RAMPED UP TO THE MAXIMUM AIRFLOW LIMIT PER THE MANUFACTURERS SPECIFICATIONS. CONTRACTOR TO COORDINATE UNIT ADJUSTMENT WITH EQUIPMENT MANUFACTURER AND T&B CONTRACTOR TO INCREASE MAXIMUM UNIT AIRFLOW TO 25, 650 CFM.
2. EXISTING AHU-2 LOCATED ON THE LEVEL ABOVE SHALL BE RAMPED UP TO THE MAXIMUM AIRFLOW LIMIT PER THE MANUFACTURERS SPECIFICATIONS. CONTRACTOR TO COORDINATE UNIT ADJUSTMENT WITH EQUIPMENT MANUFACTURER AND T&B CONTRACTOR TO INCREASE MAXIMUM UNIT AIRFLOW TO 25,650 CFM.
3. DEMOLISH AND REPLACE EXISTING DUCT MOUNTED HEATING HOT WATER COIL LOCATED IN MECHANICAL ROOM ABOVE WITHIN THE EXISTING ZONE 8 42"X16" SUPPLY DUCT. EXISTING 1-1/4" HWS/R PIPING TO REMAIN. REPLACE SHUTOFF VALVES AND CONTROL VALVES WITH NEW VALVES MEETING THE INCREASED FLOW RATE. NEW COIL CAPACITY SHALL BE MINIMUM 118 MBH, 12GPM, 1-1/4" PIPE SIZE. COIL SHALL HAVE A MAXIMUM FACE VELOCITY OF 750 FPM AND A MAXIMUM AIR PRESSURE DROP OF 0.6 IN. WC.
4. REBALANCE EXHAUST SYSTEM DUCTWORK AND UTILIZE EXISTING INTEGRAL VARIABLE SPEED MOTOR CONTROLLER TO ADJUST SPEED OF A FAN AS NEEDED.
5. REBALANCE EXHAUST SYSTEM DUCTWORK AND UTILIZE EXISTING INTEGRAL VARIABLE SPEED MOTOR CONTROLLER TO ADJUST SPEED OF A FAN AS NEEDED.



PN

N

A1 ENLARGED TICKET LEVEL MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

4 0 4 8

SCALE: 1/4" = 1'-0"

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PROJECT ADDRESS:
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REVISIONS

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DATE ISSUED:	03/14/2025
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DRAWN BY:	CDW
DESIGNED BY:	RSS
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ENLARGED TICKET LEVEL MECHANICAL PLAN

SHEET ID:
M406-4

PROJECT STATUS:
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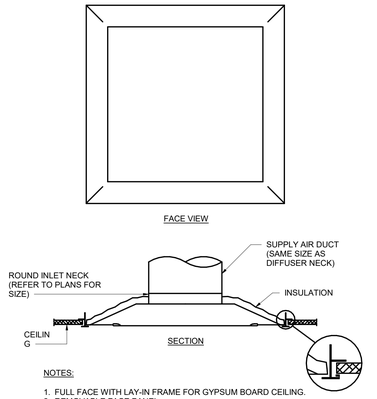
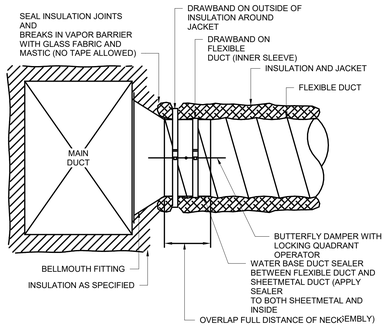


NOTES:

1. FULL FACE WITH LAY-IN FRAME FOR GYPSUM BOARD CEILING.
2. REMOVABLE FACE PANEL.
3. DISCHARGE SHALL BE UNIFORM 360° HORIZONTAL PATTERN.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING SYSTEM DETAILS.

D1 TYPE 'A' SUPPLY AIR DIFFUSER DEATAIL

SCALE: N.T.S.

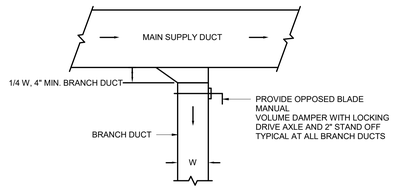


NOTES:

1. TYPICAL FOR: LOW PRESSURE AND HIGH PRESSURE CONNECTION TO MAIN DUCT, FAN TERMINAL UNITS, VARIABLE AIR VOLUME UNITS, AND DIFFUSERS.
2. DRAWBANDS SHALL BE EQUIVALENT TO PANDUIT PLT-H.

D2 FLEXIBLE DUCT TERMINATION DETAIL

SCALE: N.T.S.

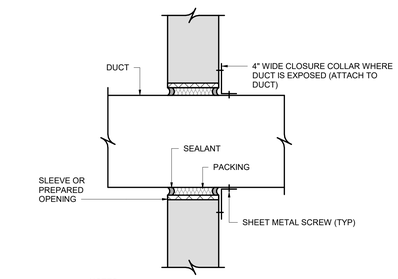


NOTES:

1. BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM OR LESS.
2. OMIT ADJUSTABLE VOLUME DAMPER ON DUCTWORK BETWEEN AHU SUPPLY FAN AND TERMINAL BOX INLET.

A3 SUPPLY BRANCH DUCT TAKE-OFF DETAIL

SCALE: N.T.S.



NOTES:

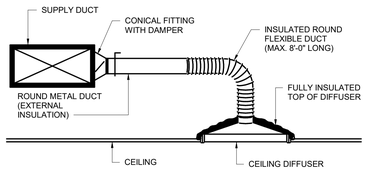
A. DETAIL IS NOT APPLICABLE WHERE FIRE DAMPER, REGISTER, OR DIFFUSER IS PROVIDED.

B. PROVIDE SEPARATE AND UNCONNECTED SLEEVES WHERE DUCTS PENETRATE DOUBLE (FLOATING) FLOOR SLABS TO PREVENT "SHORT CIRCUITING" THE VIBRATION ISOLATING MATERIAL.

C. EXTERNALLY INSULATED DUCT SHALL BE CAULKED TO PROVIDE A COMPLETE SEAL BETWEEN THE INSULATION AND CLOSURE COLLAR.

B5 DUCT PENETRATION THRU WALL DETAIL

SCALE: N.T.S.

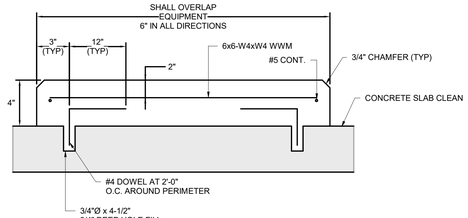


NOTE:

SUPPORT DIFFUSERS OR GRILLES FROM STRUCTURE, NOT CEILING GRID SYSTEM.

C5 CEILING DIFFUSER RUNOUT DETAIL

SCALE: N.T.S.

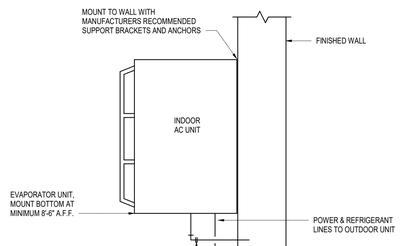


NOTE:

FOR EQUIPMENT INSIDE THE BUILDING.

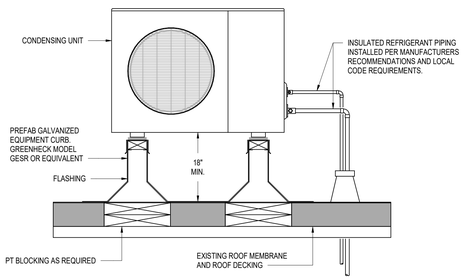
C6 INTERIOR EQUIPMENT HOUSEKEEPING PAD DETAIL

SCALE: N.T.S.



C7 IT ROOM AC SYSTEM MOUNTING DETAIL

SCALE: N.T.S.

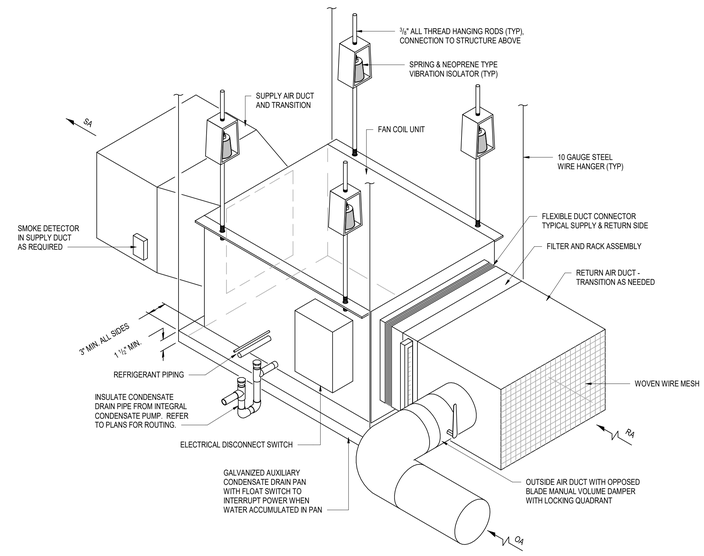


NOTE:

REFER TO SPECIFICATION SECTION 230548 - "VIBRATION CONTROLS FOR HVAC PIPING AND EQUIPMENT" FOR VIBRATION ISOLATION REQUIREMENT.

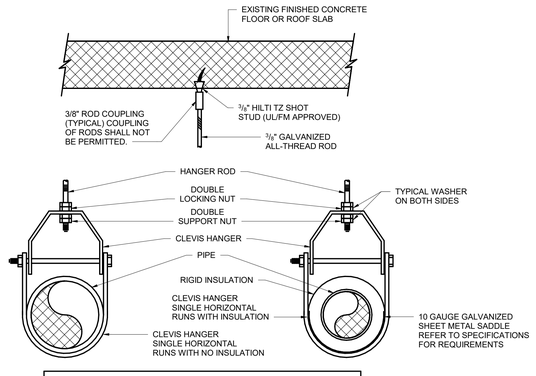
C8 ROOF MOUNTED CONDENSING UNIT DETAIL

SCALE: N.T.S.



A9 FAN COIL UNIT DETAIL

SCALE: N.T.S.



HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.
2 1/2" THRU 3"	1/2" DIA.	6" THRU 12"	7/8" DIA.

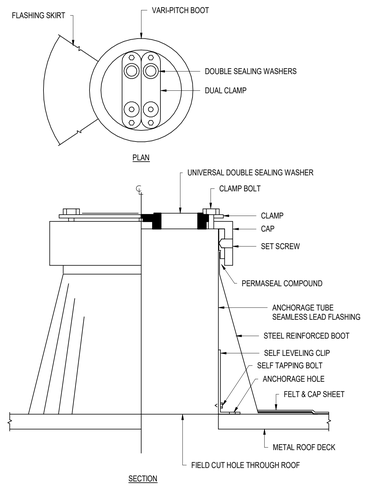
NO COUPLING OF RODS IS PERMITTED!

NOTES:
INSTALLATION AND MATERIALS SHALL MEET WITH FEDERAL, STATE AND LOCAL CODE REQUIREMENTS, INCLUDING N.F.P.A. 99

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. INSTALLATION OF SHOT STUDS INTO CONCRETE CONSTRUCTION SHALL HAVE THE APPROVAL AND REVIEW OF THE STRUCTURAL ENGINEER.

A10 CLEVIS PIPE HANGER DETAIL

SCALE: N.T.S.



A11 REFRIGERANT PIPING ROOF FLASHING DETAIL

SCALE: N.T.S.

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O/A GRAVITY VENT SCHEDULE

MARK	GV-02
SERVES	FCU-1
AIRFLOW (CFM)	50
MAXIMUM PRESS. DROP (IN. W.G.)	0.003
THROAT SIZE (INCHES)	28" x 20"
FREE AREA (SQFT)	4.00
OVERALL SIZE	8" x 8"
MANUFACTURER	GREENHECK
MODEL	GRSI-8
NOTES	1 THRU 3

NOTES:

1. PROVIDE WITH INTEGRAL BIRDSCREEN
2. PROVIDE MINIMUM 18" ROOF CURB
3. UNIT TO BE FULL ALUMINUM CONSTRUCTION

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	DESCRIPTION	FACE SIZE, W X H (IN.)	MANUFACTURER	MODEL	NOTES
A	ARCHITECTURAL SQUARE PANEL SUPPLY REGISTER	24 X 24	PRICE	SPD	1,2
B	NOT USED				
C	NOT USED				
D	SIDEWALL DOUBLE DEFLECTION SUPPLY GRILLE	SEE PLANS	PRICE	600	2,4,5,7,9
E	SIDEWALL AIRFOIL SUPPLY GRILLE	SEE PLANS	PRICE	20/30	2,5,7,9
F	HIGH CAPACITY DRUM LOUVER	SEE PLANS	PRICE	HCD	2,5,9
G	ARCHITECTURAL PERFORATED FACE RETURN GRILLE	SEE PLANS	PRICE	PDR	2,5
H	EGGCRATE EXHAUST REGISTER	SEE PLANS	PRICE	80	2,5,6,9
X	EXISTING AIR TERMINAL DEVICE	-	-	-	11

NOTES:

1. PROVIDE DEVICE FOR FOUR WAY THROW UNLESS NOTED OTHERWISE, THEN PROVIDE DIRECTIONAL BLOW CLIPS AS NECESSARY.
2. UNIT SHALL BE OF ALUMINUM CONSTRUCTION.
3. NOT USED
4. DEFLECTION BLADES SHALL BE SPACED ON 3/4" CENTERS WITH FRONT BLADES RUNNING IN THE SHORT DIMENSION.
5. PROVIDE BORDER TYPE SUITABLE FOR INDIVIDUAL LOCATIONS.
6. PROVIDE ALUMINUM CORE CONSTRUCTED IN 1/2" X 1/2" X 1/2" MATRIX.
7. INSTALL WITH 0 DEGREE DEFLECTION
8. NOT USED
9. PROVIDE WITH GRILLE MOUNTED OPPOSED BLADE DAMPER FOR BALANCING. BASIS OF DESIGN IS THE PRICE MODEL VCS3AL DAMPER.
10. NOT USED
11. INCLUDED FOR REFERENCE ONLY.

COMM ROOM SPLIT SYSTEM UNIT SCHEDULE

INDOOR UNIT DATA	
MARK	CAC-1
LOCATION	IT ROOM
MANUFACTURER	MITSUBISHI
MODEL	TPKA-0A0121LA10A
COOLING DATA	
TOTAL CAPACITY (BTU/HR)	12,000
SENSIBLE CAPACITY (BTU/HR)	10,560
AIRFLOW MAXIMUM (CFM)	385
RATED ENTERING AIR TEMP. (DB / WB °F)	80/67
FAN POWER (W)	56
INDOOR UNIT ELECTRICAL DATA	
VOLTAGE / PHASE / HZ	208 / 1 / 60
FLA / MCA	0.19 / 1.0
OUTDOOR UNIT DATA	
MARK	CCU-1
REFRIGERANT	R410A
VOLTAGE/PHASE/HZ	208/230 / 1 / 60
FLA / MCA / MOCP	0.5 / 11 / 28
MANUFACTURER	MITSUBISHI
MODEL	TRUY-A012 1KA7ONA
NOTES	1 - 4

NOTES:

1. PROVIDE PROGRAMMABLE FACTORY MOUNTED HARD WIRED THERMOSTAT WIT TOUCHSCREEN AND HUMIDITY CONTROL.
2. PROVIDE FACTORY DISCONNECTS FOR CONDENSING UNIT AND INDOOR UNIT.
3. PROVIDE WITH BLUE DIAMOND (ADVANCED) MINI CONDENSATE PUMP WITH RESERVOIR). UNIT MARK CD-1. PROVIDE RESERVOIR WITH LEVEL SENSOR FLOW SWITCH TO SHUT UNIT DOWN IF CONDENSATE RISES ABOVE SET LIMITS. MECHANICAL CONTRACTOR TO PROCURE PUMP AND PLUMBING CONTRACTOR TO INSTALL PUMP AND PIPING.
4. PROVIDE MANUFACTURERS RECOMMENDED PIPING BETWEEN INDOOR AND OUTDOOR UNIT. PIPING TO BE INSULATED WITH FIRE-RETARDANT ARMAFLEX THAT COMPLIES WITH 2018 NORTH CAROLINA MECHANICAL AND ENERGY CODES.

HEAT PUMP FAN COIL SPLIT SYSTEM UNIT SCHEDULE

INDOOR UNIT DATA	
INDOOR UNIT MARK	FCU-1
INDOOR UNIT TYPE	DUCTED
INDOOR UNIT MANUFACTURER	MITSUBISHI
INDOOR UNIT MODEL	PEAD-A12AA9
SEER	21.8
EER	13.6
COOLING DATA	
TOTAL RATED CAPACITY (BTU/H)	12,000
SENSIBLE CAPACITY (BTU/H)	9,960
RATED ENTERING AIR TEMP. (DB/WB °F)	80/67
FAN POWER (W)	121
HEATING DATA	
MAX CAPACITY @ 47°F / 17°F (BTU/H)	18,000 / 9,000
RATED CAPACITY @ 47°F / 17°F (BTU/H)	14,000 / 9,000
AIRFLOW DATA	
AIRFLOW RATE (LOW LOW, LOW, MED, HIGH) (CFM)	353, 38, 424, 494
OUTSIDE AIRFLOW RATE (CFM)	50
OUTDOOR UNIT DATA	
OUTDOOR UNIT MARK	CU-1
REFRIGERANT	R410A
OUTDOOR UNIT VOLTAGE/PHASE/HZ	208 / 1 / 60
MCA / MOCP	11 / 28
OUTDOOR UNIT MANUFACTURER	MITSUBISHI
OUTDOOR UNIT MODEL	PUZ-A12NKA7
NOTES	1-9

NOTES:

1. PROVIDE PROGRAMMABLE FACTORY SUPPLIED WIRELESS THERMOSTAT WITH TOUCHSCREEN AND AUTOMATIC FAN SETTING CAPABILITY.
2. PROVIDE UNIT WITH INTEGRAL FLOW SWITCH TO SHUT UNIT DOWN IF CONDENSATE RISES ABOVE SET LIMITS.
3. PROVIDE FACTORY DISCONNECTS FOR CONDENSING UNIT AND INDOOR UNIT.
4. CONDENSING UNITS SHALL BE MOUNTED ON CONCRETE EQUIPMENT PAD.
5. PROVIDE FB SERIES FILTER BOX SECTION (FBM2-3-A).
6. PROVIDE BUILT IN CONDENSATE LIFT MECHANISM.
7. TEST AND BALANCE SYSTEM ON HIGH FAN SETTING OF 494 CFM.
8. PROVIDE MANUFACTURERS RECOMMENDED PIPING BETWEEN INDOOR AND OUTDOOR UNIT. PIPING TO BE INSULATED WITH FIRE RETARDANT ARMAFLEX THAT COMPLIES WITH 2024 NORTH CAROLINA MECHANICAL AND ENERGY CODES.
9. PROVIDE MOTORIZED OA INTAKE DAMPER INTERLOCKED WITH FCU-1. SEE PLANS FOR LOCATION.
10. OR EQUAL: DAIKIN, LG.

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F-0493 * C-28

ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: KMN
DRAWN BY: MA
DESIGNED BY: RSS
PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:
MECHANICAL SCHEDULES

SHEET ID:
M601-4

PROJECT STATUS:
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PN N

A1 OVERALL TICKET LEVEL ELECTRICAL LIGHTING PLAN - ALT 4

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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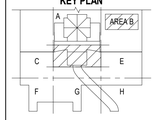
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

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DATE ISSUED:	3/14/2025
REVIEWED BY:	RS&H
DRAWN BY:	BWG
DESIGNED BY:	CRD

PROJECT NUMBER:
2003-0070-006

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SHEET TITLE:

OVERALL TICKETING LEVEL ELECTRICAL LIGHTING PLAN - ALT 4

SHEET ID:

EL106-4

PROJECT STATUS:
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GENERAL NOTES

A. REFER TO SHEET EL601 FOR THE LIGHTING FIXTURE SCHEDULE.

B. ALL EXTERIOR LUMINAIRES CONTROLLED VIA PHOTOCELL VIA LIGHTING SYSTEM CONTROL.

C. PROVIDE EMERGENCY TRANSFER RELAY FOR ALL EMERGENCY LUMINAIRES, CONNECT TO EMERGENCY AND NORMAL LIGHTING CIRCUIT IN SPACE.

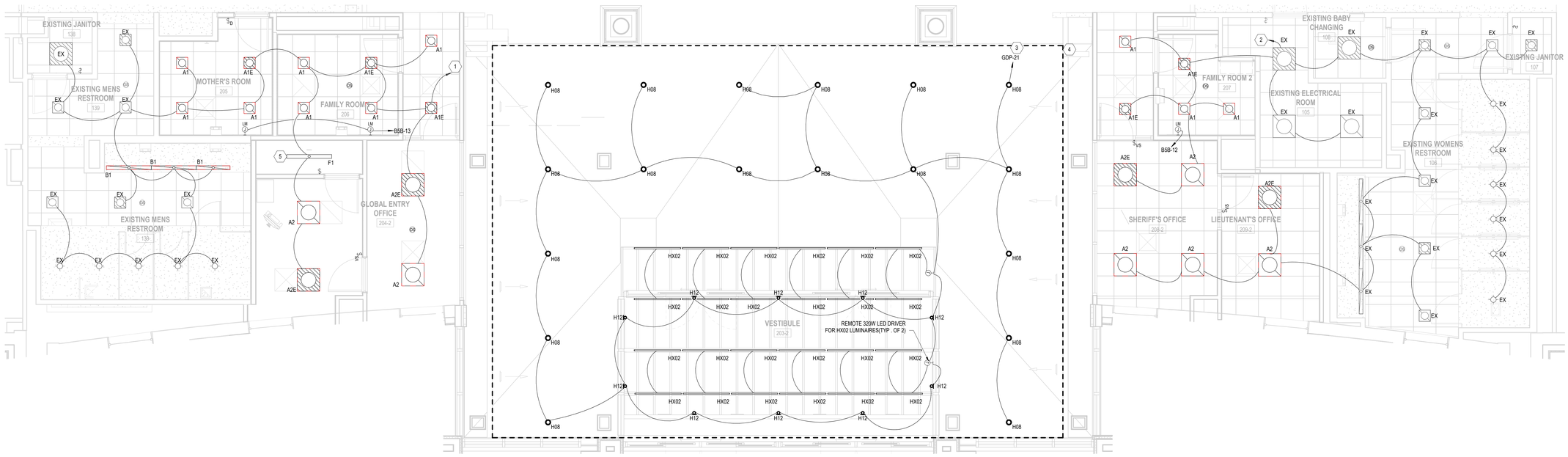
D. NEW LUMINAIRES WITH DESIGNATION "HXX" OR "HXXX" ARE BEING DESIGNED BY HARTRANFT LIGHTING DESIGN. SEE HARTRANFT PROVIDED LUMINAIRE SCHEDULES ON SHEETS EL601 AND EL602

E. SEE SHEET EP106 AND SHEET EP401 FOR LOCATION OF PANELBOARDS NOT LOCATED ON THIS SHEET.

F. LUMINAIRES WITH RGBW CAPABILITIES ARE TO BE CONTROLLED VIA DMX LIGHITNG CONTROL SYSTEM. LOCATED IN MECHANICAL RM 124. SEE LUMINAIRE SCHEDULES ON SHEET EL601 AND EL 602 LUMINAIRES CONTROLLED VIA DMX SYSTEM.

KEYNOTES

1 EXTEND EXISTING CIRCUIT GDP-11 TO NEW LUMINAIRES.
2 EXTEND EXISTING CIRCUIT GDP-13 TO NEW LUMINAIRES.
3 EXTEND LIGHTING CONTROLS FROM EXISTING ATRIUM AND TERMINAL LIGHTING CONTROL SYSTEM TO NEW ATRIUM LUMINAIRES.
4 LUMINAIRES IN THIS AREA SHALL BE CONTROLLED BY DAYLIGHT SENSOR VIA LIGHTING CONTROLLER.
5 SURFACE MOUNT TO HARD CEILING.



PN N

A1 PARTIAL TICKETING LEVEL ELECTRICAL LIGHTING PLAN - AREA B - ALT 4

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"

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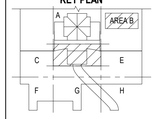
KEY PLAN



REVISIONS

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DATE ISSUED:	3/14/2025
REVIEWED BY:	RS&H
DRAWN BY:	BWG
DESIGNED BY:	CRD

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SHEET TITLE:
PARTIAL TICKETING LEVEL ELECTRICAL LIGHTING PLAN - AREA B

SHEET ID:
EL107-4

PROJECT STATUS:
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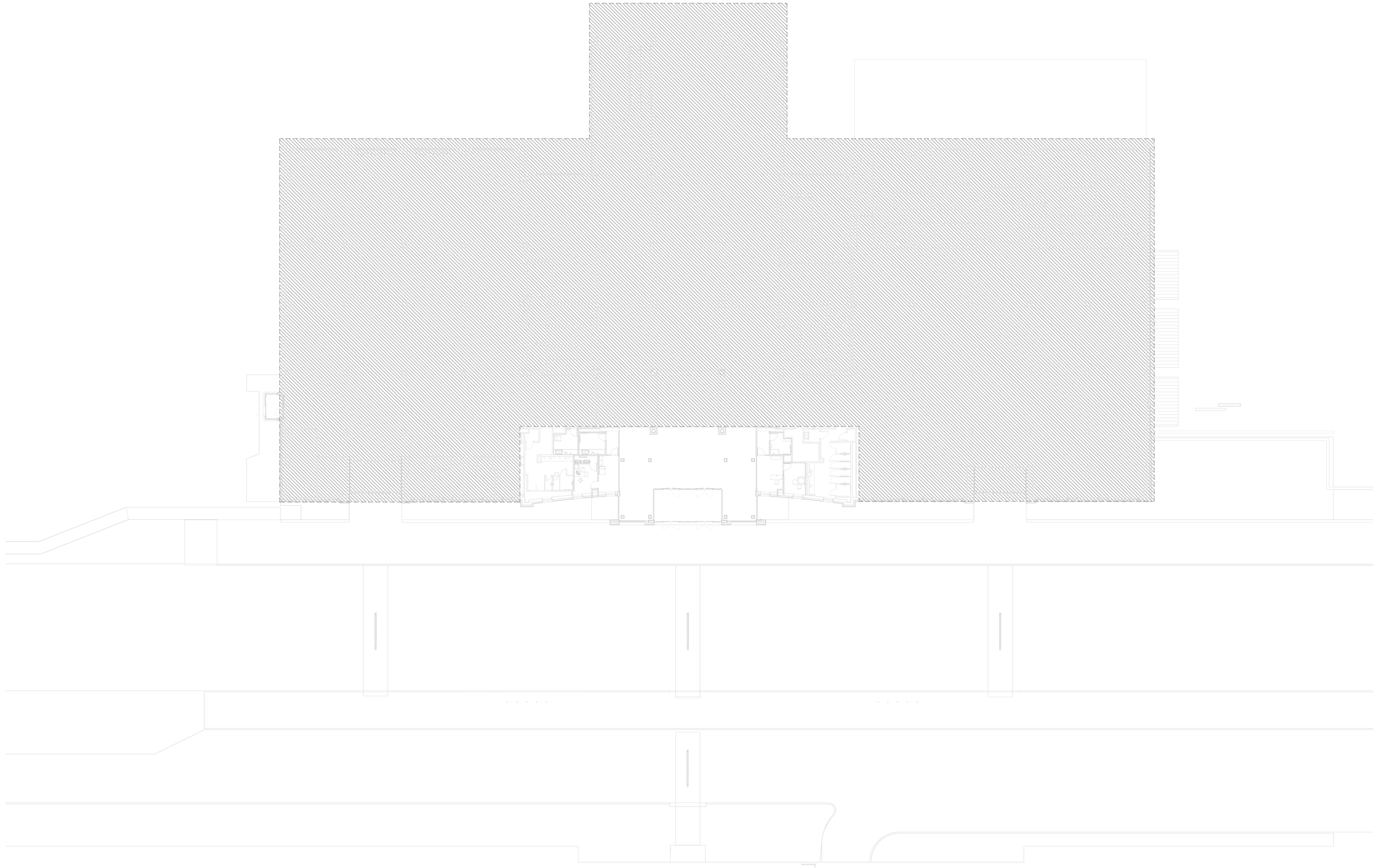

PN N

A1 OVERALL TICKETING LEVEL ELECTRICAL POWER PLAN - ALT 4

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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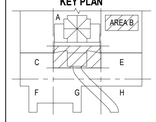
KEY PLAN



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REVIEWED BY:	RS&H
DRAWN BY:	BWG
DESIGNED BY:	CRD

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SHEET TITLE:
OVERALL TICKETING LEVEL ELECTRICAL POWER PLAN

SHEET ID:
EP106-4

PROJECT STATUS:
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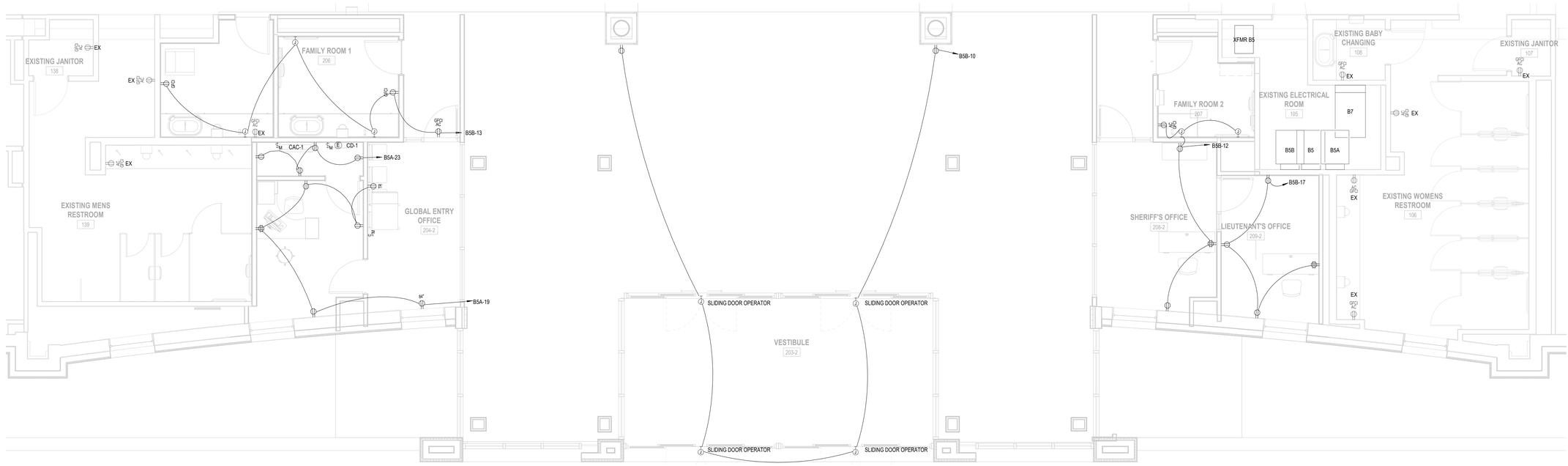
GENERAL NOTES

A. STAGE REMOVAL OF EXISTING ELECTRICAL DISTRIBUTION TO MINIMIZE DISRUPTION OF TERMINAL OPERATIONS. ALL OUTAGES WILL BE COORDINATED WITH AIRPORT AT LEAST 1 WEEK PRIOR TO OUTAGE.

B. ALL FEEDER SIZES ARE INDICATED ON EP602 OR ON PANEL SCHEDULES.

C. SEATING OUTLETS MUST BE TR TYPE OUTLETS PER NFPA 70.



PN N

A1 PARTIAL TICKET LEVEL ELECTRICAL POWER PLAN - AREA B - ALT 4

SCALE: 1/4" = 1'-0"

4 0 4 8

SCALE: 1/4" = 1'-0"

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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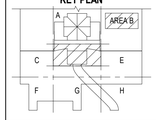
KEY PLAN



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DESIGNED BY:	CRD

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SHEET TITLE:
PARTIAL TICKETING LEVEL ELECTRICAL POWER PLAN - AREA B

SHEET ID:
EP107-4

PROJECT STATUS:
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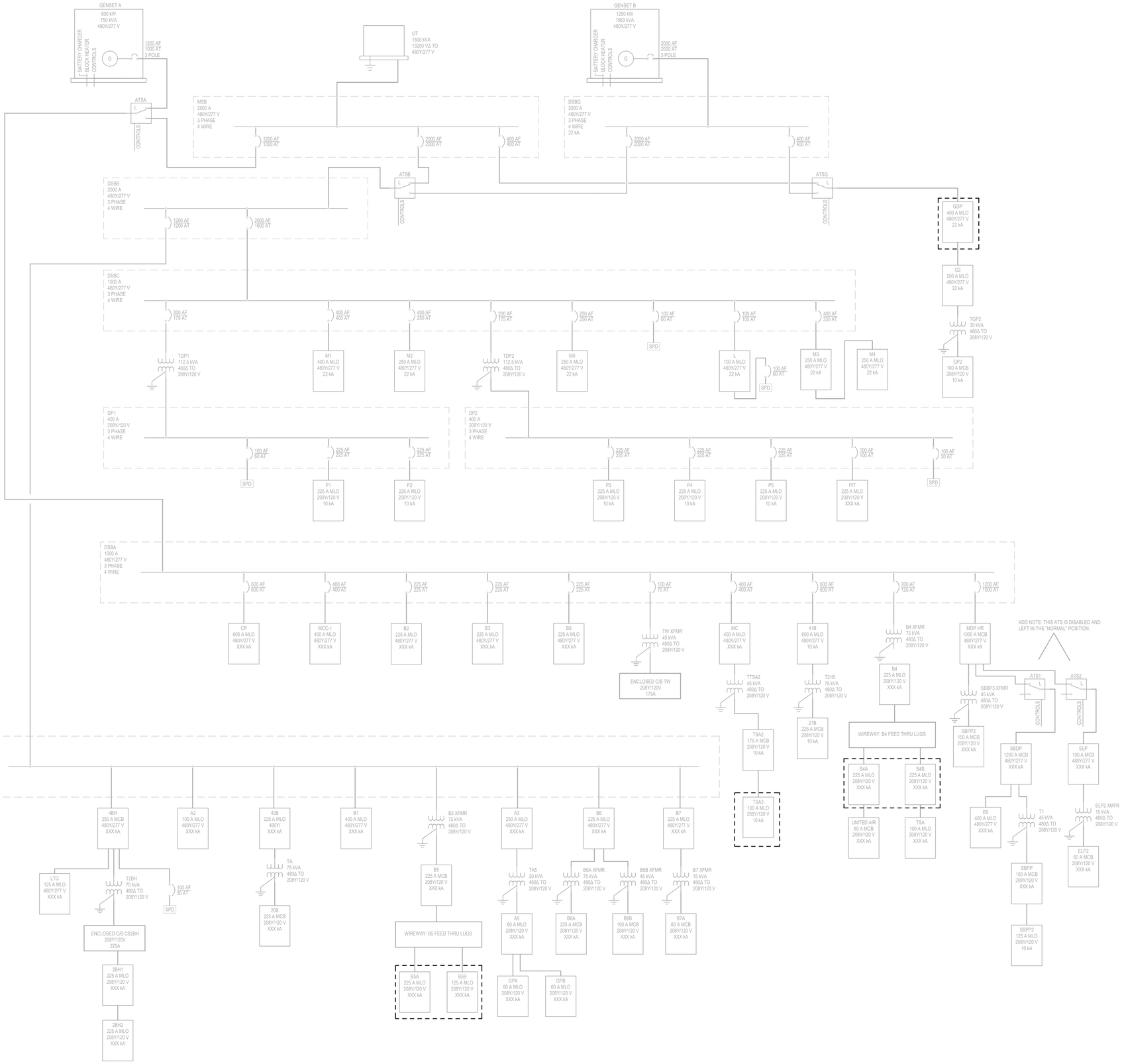

A1 EXISTING SINGLE LINE DIAGRAM - ALTERNATE 4 (FOR REFEERENCE ONLY)

SCALE: N.T.S.

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SHEET TITLE:
PARTIAL ELECTRICAL ONE-LINE DIAGRAM

SHEET ID:
EP601-4

PROJECT STATUS:
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COMMUNICATIONS ABBREVIATIONS

AC	ABOVE COUNTER
ACS	ACCESS CONTROL SYSTEM
ACT	ACOUSTIC CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
AP	ACCESS PANEL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAT6	CATEGORY 6 ETHERNET CABLE
CATV	CABLE TELEVISION
CE	COMMUNICATIONS ENCLOSURE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CNTRL	CONTROLLER
COMM	COMMUNICATION
COPP	COPPER PATCH PANEL
CR	CARD READER
DC	DIRECT CURRENT
DIV	DIVISION
DPS	DOOR POSITION SWITCH
DWG	DRAWING
E	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
EM	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EOR	ENGINEER OF RECORD
EQ	EQUAL
FLR	FLOOR
FO	FIBER OPTIC
FOC	FIBER OPTIC CABLE
FOPP	FIBER OPTIC PATCH PANEL
GC	GENERAL CONTRACTOR
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GND	GROUND
GRS	GALVANIZED RIGID STEEL
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE
HMI	HUMAN MACHINE INTERFACE
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
IC	INTERCOM
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
IP	INTERNET PROTOCOL
ISP	INTERNET SERVICE PROVIDER
ITC	INTERCOM TERMINAL CABINET
J	JUNCTION
JB	JUNCTION BOX
KAIC	(THOUSAND) AMPERE INTERRUPTING CAPACITY
Kcmil	THOUSANDS OF CIRCULAR MILS
KO	KNOCK OUT
LAN	LOCAL AREA NETWORK
LBS	LOAD BREAK SWITCH
LCD	LIQUID CRYSTAL DISPLAY
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIC	MICROPHONE
MM	MULTI-MODE
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NWSW	NETWORK SWITCH
OAE	OR APPROVED EQUAL
OC	ON CENTER
OH	OVERHEAD
PDU	POWER DISTRIBUTION UNIT
PNEU	PNEUMATIC
PNL	PANEL
POE	POWER OVER ETHERNET
POS	POINT OF SALE
PP	POWER PANEL
PRCS	PARKING REVENUE CONTROL SYSTEM
PTZ	PAN-TILT-ZOOM
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
REX	REQUEST TO EXIT
RF	RADIO FREQUENCY
RM	ROOM
RS	RIGID STEEL
SEC	SECURITY
SFP	SMALL FORM-FACTOR PLUGGABLE
SIDA	SECURITY IDENTIFICATION DISPLAY AREA
SM	SINGLE MODE
SPD	SURGE PROTECTIVE DEVICE
STS	STATIC TRANSFER SWITCH
SYM	SYMMETRICAL
TB	TELEPHONE BACKBOARD
TBD	TO BE DETERMINED
TDC	TRAVEL DOCUMENT CHECKER
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TSA	TRANSPORTATION SECURITY ADMINISTRATION
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UGC	UNDERGROUND COMMUNICATIONS
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UT	UTILITY
UTP	UNSHIELDED TWISTED PAIR
UTR	UP THROUGH ROOF
VMS	VIDEO MANAGEMENT SYSTEM
VoIP	VOICE OVER INTERNET PROTOCOL
WAP	WIRELESS ACCESS POINT
WP	WEATHER PROOF
WR	WEATHER-RESISTANT
Z	ZONE

COMMUNICATIONS SYMBOLS

COMMUNICATIONS OUTLET, SURFACE MOUNTED -TWO (2) CAT 6 RJ45 JACKS (BLUE) WITH BLUE CAT 6. REFER TO DETAIL 6 ON SHEET T501.

VOICE/DATA OUTLET, ONE (1) CAT 6 RJ45 JACK (WHITE) WITH BLUE CAT 6 AND TWO (2) CAT 6 RJ45 JACKS (BLUE) WITH BLUE CAT 6. REFER TO DETAIL 3 ON SHEET T501.

SECURITY CAMERA DATA, MOUNTING AS NOTED IN CABLE SCHEDULE -TWO (2) CAT 6 RJ45 PLUGS/JACKS (GRAY) WITH GRAY CAT 6. REFER TO CABLE SCHEDULE FOR ADDITIONAL INFORMATION.

WALL TELEPHONE OUTLET. REFER TO DETAIL 4 ON SHEET T501.

BUS COMMUNICATIONS OUTLET, SURFACE MOUNTED -TWO (2) CAT 6 RJ45 JACKS (BLUE) WITH BLUE CAT 6. REFER TO DETAIL 6 ON SHEET T501.

OUTDOOR LOUDSPEAKER

CEILING SPEAKER

VOLUME CONTROL

AP WIRELESS ACCESS POINT - PROVIDE (2) CAT 6 COMMUNICATIONS JACKS (BLUE) WITH BLUE CAT 6. REFER TO DETAIL 5 ON SHEET T501.

HH COMMUNICATIONS HANDHOLE (BY CIVIL)
COMMUNICATIONS CABLE TRAY, REFER TO PLANS FOR DIMENSIONS AND MOUNTING HEIGHT.

2-POST EQUIPMENT RACK

CABLE LEGEND & COLOR SCHEMES

CABLE LEGEND

ID	DESCRIPTION	DEVICE
A	6-24 AWG SHIELDED	CARD READER (WIEGAND INTERFACE)
	2-24 AWG TWISTED PAIR, OVERALL SHIELD	CARD READER (OSDP INTERFACE)
B	4-22 AWG UNSHIELDED	MISC. INPUT (DPS/REX/TD)
C	4-14 AWG UNSHIELDED	ANNUNCIATOR (HORN/STROBE)
D	2-14 AWG UNSHIELDED	MISC. OUTPUT (LOCK) LENGTH < 100'
	2-12 AWG SHIELDED	MISC. OUTPUT (LOCK) LENGTH < 200'
E	CATEGORY 6 UTP	ETHERNET (VOICE/DATA/VIDEO)
E1	OUTDOOR RATED CATEGORY 6 UTP (GEL FILLED)	ETHERNET (VOICE/DATA/VIDEO)
E2	CATEGORY 6 STP	ETHERNET (DATA/VIDEO)
F	2-18 AWG UNSHIELDED	FIRE ALARM RELAY AND MISC. I/O
X	SINGLE-MODE FIBER	FIBER OPTIC PATCH CABLE

GENERAL NOTES

1. REFER TO CONSTRUCTION MANUAL OR SPECIFICATIONS FOR MATERIALS TO BE INCORPORATED.
2. FIELD VERIFY ALL NEW DEVICE AND EQUIPMENT LOCATIONS PRIOR TO THE START OF INSTALLATION. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.
3. MINIMUM CONDUIT SIZE SHALL BE 1". ALL CONDUITS SHALL BE EMT. EXCEPTIONS INCLUDE:
   A. GRS FOR EXTERIOR AREAS
   B. RS FOR AREAS ACCESSIBLE TO THE PUBLIC
   C. PVC FOR BURIED OR CAST-IN-PLACE CONDUITS
   D. FLEXIBLE CONDUIT FOR CONCEALED DROPS TO DEVICES AND WHERE APPROVED BY THE OWNER
4. CONDUIT SHALL NOT EXCEED 40% FILL FACTOR. INSTALLATION OF CONDUIT AND WIRING SHALL BE IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE (NEC). ALL WIRING SHALL BE HOMERUN, UNLESS OTHERWISE NOTED. ANY SPLICES SHALL BE APPROVED BY THE DESIGNER.
5. CONTRACTOR SHALL COORDINATE THE ROUTING AND LOCATION OF NEW COMMUNICATIONS CONDUITS WITH THE ELECTRICAL CONTRACTOR AND OTHER TRADES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT LINE VOLTAGE (120V AND ABOVE) POWER CONDUCTORS ARE NOT ROUTED WITHIN 12 INCHES OF COMMUNICATIONS WIRING.
7. ALL CONDUCTORS SHALL BE COLOR CODED AND TAGGED AS DESCRIBED IN THE WRITTEN SPECIFICATIONS AND APPROVED BY THE OWNER.
8. COORDINATE WORK WITH OTHER TRADES AND CONFIRM FINAL MOUNTING LOCATION FOR NEW AND RELOCATED EQUIPMENT WITH THE OWNER PRIOR TO INSTALLATION.
9. CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES FOR ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE NEW AND UNUSED.
10. ALL RACEWAY, CONDUIT AND JUNCTION BOXES SHALL BE NEW AND INSTALLED WITH PULL STRING. REUSE OF EXISTING CONDUITS SHALL BE APPROVED BY THE OWNER. WHEN INSTALLING CABLING IN EXISTING CABLE TRAY, CONTRACTOR SHALL TAKE CARE NOT TO DISTURB OR DAMAGE EXISTING CABLING.
11. PROVIDE CONDUIT SLEEVES FOR ALL PENETRATIONS, WHETHER SHOWN ON DRAWING OR NOT. PROVIDE INSULATING BUSHINGS ON BOTH ENDS OF ALL CONDUIT SLEEVING.
12. CONDUITS PENETRATING FIRE RATED WALLS OR FLOORS SHALL USE APPROVED U.L. DEVICES IN ORDER TO MAINTAIN FIRE RATING OF THE WALL OR FLOOR.
13. ALL DATA CABLING FOR SECURITY SHALL BE INSTALLED IN DEDICATED CONDUIT.
14. MAINTAIN MINIMUM BENDING RADII FOR ALL CABLES ACCORDING TO THE CABLE MANUFACTURER AND PER BICSI AND TIA STANDARDS.
15. ALL WIRING, CABLING AND CONDUCTORS SHALL BE NEW UNLESS REUSE OF EXISTING IS APPROVED BY THE OWNER.
16. ALL WORK SHALL BE CLOSELY COORDINATED WITH THE OWNER. ANY WORK AFFECTING TENANTS SHALL BE SCHEDULED IN ADVANCE AND PRE-APPROVED BY THE OWNER.
17. ALL COMMUNICATIONS OUTLET BOXES SHALL BE MIN. 4" WIDE BY 4" HIGH BY 3.15" DEEP WITH SINGLE GANG MUD RING FOR CAT 6 CABLES. AV OUTLET BOXES (OTHER THAN THAT BEHIND THE TV, VIDEO WALL DISPLAYS) SHALL BE 3 1/2-INCH DEEP 5-INCH SQUARE BOX.
18. TELE/DATA CONDUITS ARE TO BE LONG RADIUS TYPE AND SHALL CONTAIN PULL STRINGS. PROVIDE PLATES FOR ALL OUTLETS. CAT 6 CABLES SHALL BE PLENUM RATED. "LB" TYPE FITTINGS SHALL NOT BE USED.
19. IF EXISTING EQUIPMENT SHALL BE DECOMMISSIONED, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO PROPERLY SHUT DOWN EQUIPMENT PRIOR TO DISCONNECTING. CONTRACTOR SHALL PROPERLY STORE EQUIPMENT ON SITE AT AN AREA DESIGNATED BY THE OWNER UNTIL THE EQUIPMENT IS REINSTALLED OR CONVEYED TO THE OWNER UPON COMPLETION OF THE PROJECT.
20. CONTRACTOR SHALL SCHEDULE AND COORDINATE INSTALLATION OF OWNER PROVIDED EQUIPMENT WITH THE OWNER.
21. WHERE "ROUGH-IN" IS REQUIRED, PROVIDE BACK BOX, COVER PLATE, CONDUIT, JUNCTION BOXES, ANCILLARY HARDWARE, AND RACEWAY BACK TO THE COMM ROOM.

DEMOLITION NOTES

1. PORTIONS OF THE WORK SHALL INCLUDE THE DEMOLITION OF EXISTING EQUIPMENT, ASSOCIATED MOUNTING HARDWARE, BACK BOXES, CONNECTIONS, CONDUIT, RACEWAY, AND CABLING BACK TO THE SOURCE.
2. DEMOLITION INCLUDES THE REMOVAL OF ALL ELECTRONIC EQUIPMENT AND CABLING TO BE REUSED OR REPLACED.
3. ANY EQUIPMENT DEMOLISHED BY THE CONTRACTOR SHALL BE INVENTORIED AND RETURNED TO THE OWNER UPON DECOMMISSIONING, INCLUDING STORING AT A SECURE LOCATION ON SITE AS DETERMINED BY THE OWNER.
4. FOR DECOMMISSIONED EQUIPMENT, WHETHER TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTALLED AT A LATER DATE OR PERMANENTLY DECOMMISSIONED, CONTRACTOR SHALL TAG AND MAINTAIN A LOG OF ALL HARDWARE. TAGS SHALL INCLUDE DATE REMOVED, EQUIPMENT IDENTIFICATION, AND LOCATION INFORMATION.
5. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL DEMOLITION WITH THE OWNER PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL MAINTAIN CONTROL OF THE SITE AT ALL TIMES DURING CONSTRUCTION.
6. REMOVE ALL CABLES FROM DECOMMISSIONED DEVICES AND PORTS BACK TO SOURCE. CONTRACTOR SHALL DEMOLISH ABANDONED RACEWAY EXCEPT FOR BURIED CONDUITS WHICH MAY BE CAPPED FOR FUTURE USE.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SECURITY OF THE SIDA, STERILE AREA, AND SECURED SPACES WHILE PERFORMING WORK IN THOSE AREAS. CONTRACTOR SHALL COORDINATE WORK WITH AIRPORT SECURITY, TSA, AND TENANTS.

COMMUNICATIONS SHEET INDEX - ALT 4

SHEET NUMBER	SHEET NAME
T001-4	COMMUNICATIONS GENERAL NOTES, SYMBOLS AND ABBREVIATIONS - ALT 4
T103-4	PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - AREA B - ALT 4
T106-4	OVERALL COMMUNICATIONS TICKET LEVEL FLOOR PLAN - ALT 4
T108-4	PARTIAL COMMUNICATIONS TICKET LEVEL FLOOR PLAN - AREA B - ALT 4
T401-4	ENLARGED COMMUNICATIONS PLANS - ALT 4
T702-4	COMMUNICATIONS RISER DIAGRAM - ALT 4
T703-4	COMMUNICATIONS INTERCONNECT DIAGRAM - ALT 4

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Hartranft Lighting Design

ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

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DRAWN BY:	RJF
DESIGNED BY:	RJF
PROJECT NUMBER:	**2003-0070-006**

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SEAL:

SHEET TITLE:
COMMUNICATIONS GENERAL NOTES, SYMBOLS AND ABBREVIATIONS - ALT 4

SHEET ID:
T001-4

PROJECT STATUS:
100% BID SET

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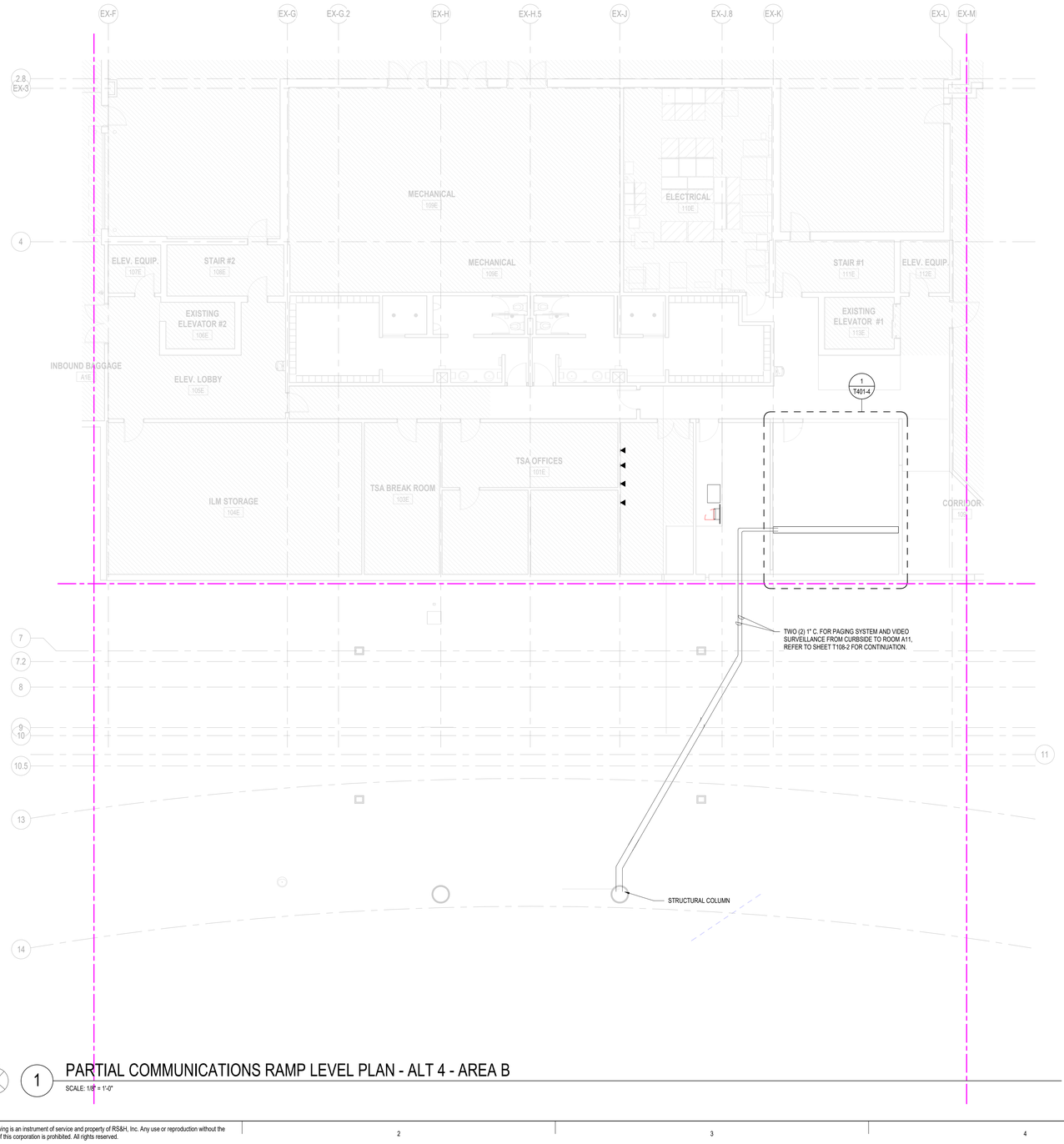

PN
N

1 PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - ALT 4 - AREA B

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

NOTES:

1. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW UNLESS OTHERWISE NOTED.
2. BURIED CONDUIT AND CABLE BETWEEN STRUCTURAL COLUMNS AND TERMINAL BUILDING MANAGEMENT ROOM A11, (IT ROOM 122) AND GARAGE IDF ROOM SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE INSTALLATION OF CAST-IN-PLACE CONDUITS WITH CIVIL AND STRUCTURAL CONTRACTORS.
3. PAGING ZONES ARE SHOWN FOR CONTRACTOR INFORMATION ONLY. ACTUAL PAGING ZONES SHALL BE CONFIGURED BY THE CONTRACTOR AS COORDINATED WITH THE OWNER INCLUDING EXPANDING AND RECONFIGURING EXISTING ZONES AS REQUIRED.
4. NOISE SENSOR MICROPHONES ARE NOT SHOWN. CONTRACTOR SHALL DETERMINE LOCATION AND QUANTITY OF NOISE SENSORS REQUIRED BASED ON FIELD CONDITIONS AND FINAL PAGING ZONE CONFIGURATIONS.
5. EXISTING SPEAKERS BEING RELOCATED SHALL BE CLEANED AND TESTED PRIOR TO BEING RE-INSTALLED. CONTRACTOR SHALL PROVIDE NEW WIRE (LIKE FOR LIKE) FOR EXISTING SPEAKERS.
6. THE CIRCUITING AND ROUTING OF CABLES TO EACH ZONE OF SPEAKERS SHALL BE DETERMINED BY THE CONTRACTOR. THE TOTAL CIRCUIT LOAD OF EACH ZONE AND QUANTITY OF AMPLIFIERS AND OTHER EQUIPMENT REQUIRED TO MEET THE REQUIREMENTS INCLUDING ANY ADJUSTMENTS NECESSARY TO THE EXISTING SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR AS PART OF THE WORK AND COMPLETED PRIOR TO COMMISSIONING IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.

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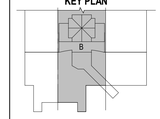
KEY PLAN



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SHEET TITLE:
PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - AREA B - ALT 4

SHEET ID:
T103-4

PROJECT STATUS:
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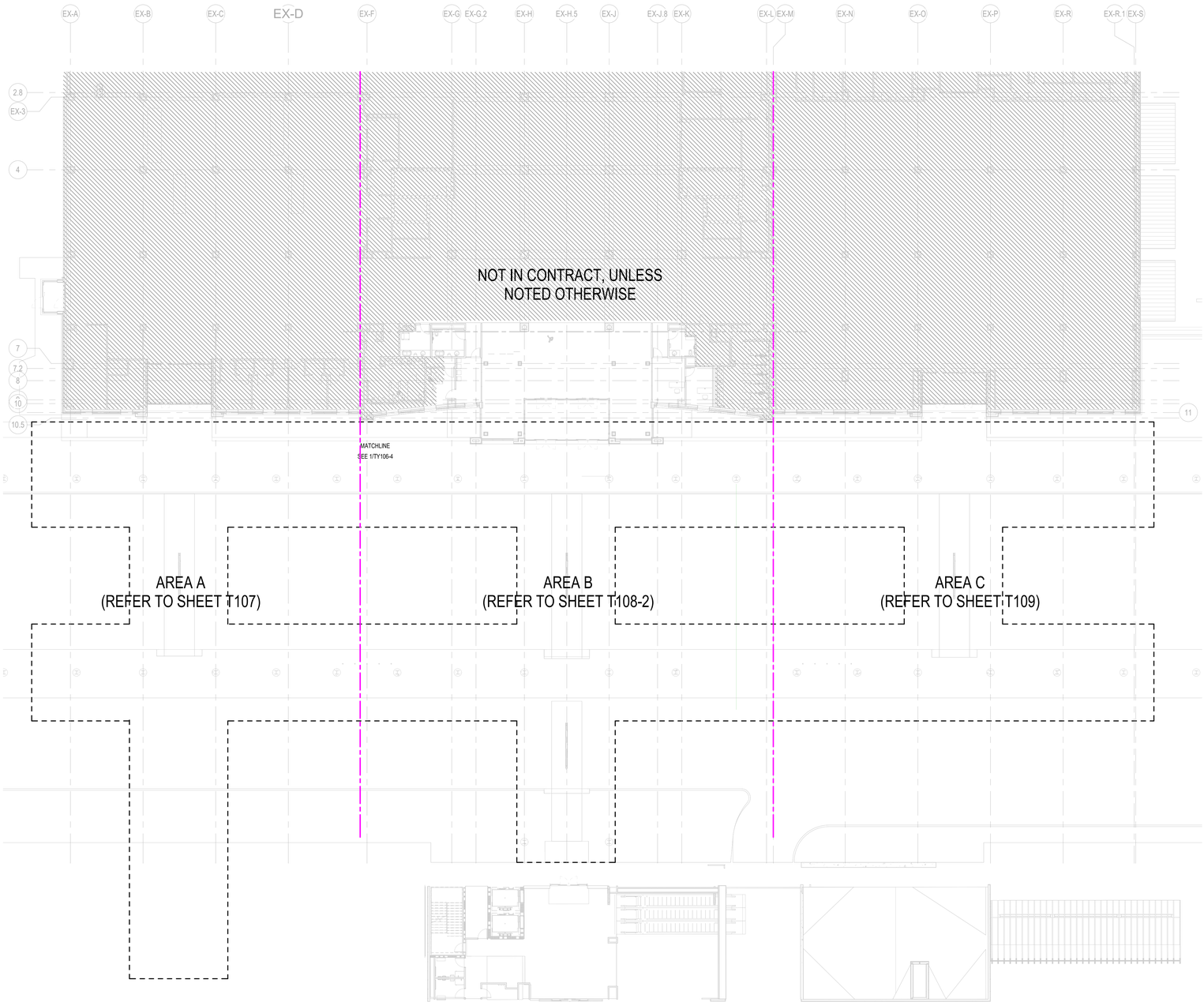

PN
N

1 OVERALL COMMUNICATIONS TICKET LEVEL FLOOR PLAN - ALT 4
SCALE: 1/16" = 1'-0"

16 0 16 32
SCALE: 1/16" = 1'-0"

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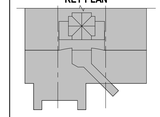
KEY PLAN



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SEAL:

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OVERALL COMMUNICATIONS TICKET LEVEL FLOOR PLAN - ALT 4

SHEET ID:
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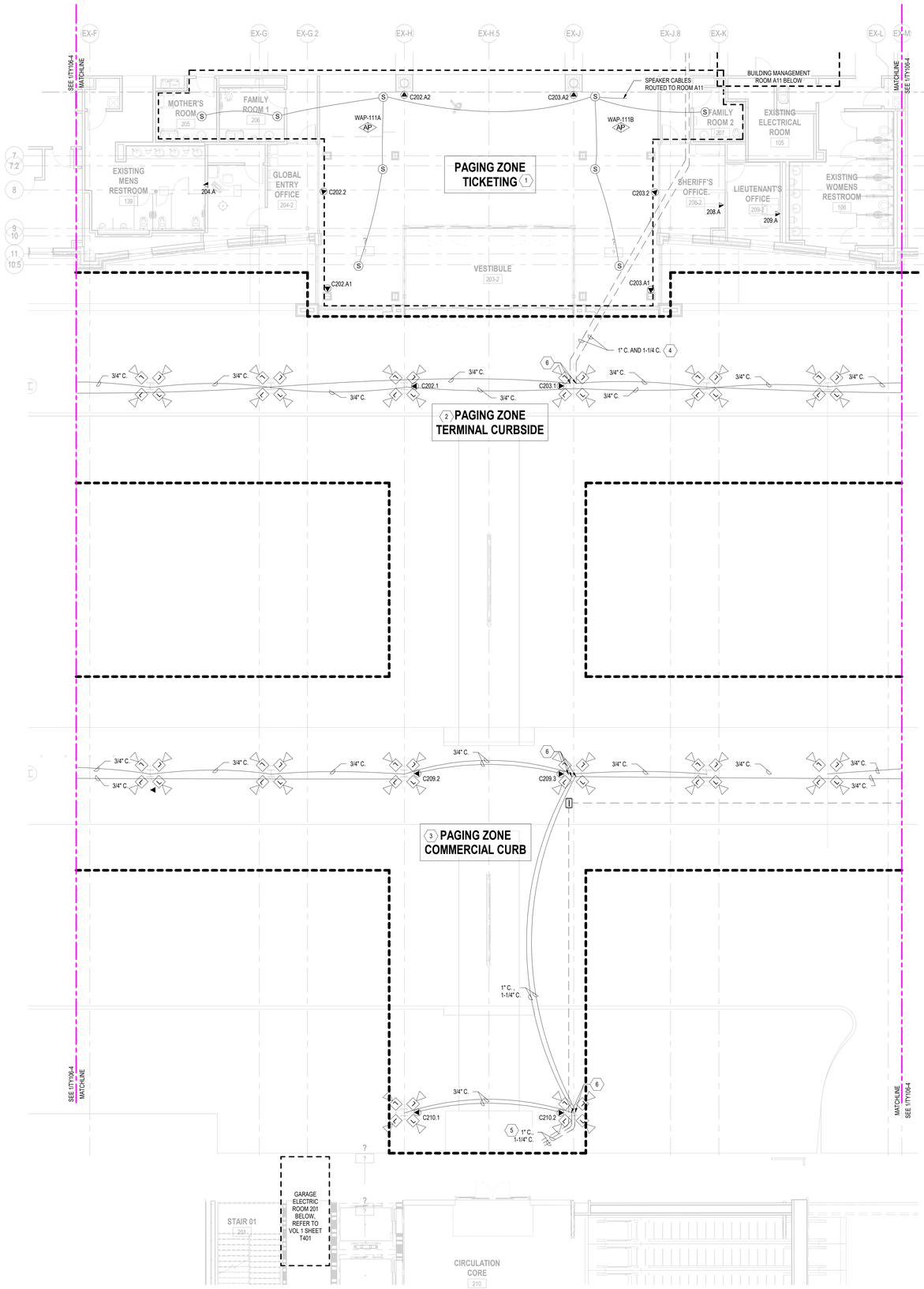

1 PARTIAL COMMUNICATIONS TICKET LEVEL PLAN - ALT 4 - AREA B

SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

NOTES:

1. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW UNLESS OTHERWISE NOTED.
2. BURIED CONDUIT AND CABLE BETWEEN STRUCTURAL COLUMNS AND TERMINAL BUILDING MANAGEMENT ROOM A11, (IT ROOM 122) AND GARAGE IDF ROOM SHALL BE PROVIDED BY THE CONTRACTOR. COORDINATE INSTALLATION OF CAST-IN-PLACE CONDUITS WITH CIVIL AND STRUCTURAL CONTRACTORS.
3. PAGING ZONES ARE SHOWN FOR CONTRACTOR INFORMATION ONLY. ACTUAL PAGING ZONES SHALL BE CONFIGURED BY THE CONTRACTOR AS COORDINATED WITH THE OWNER INCLUDING EXPANDING AND RECONFIGURING EXISTING ZONES AS REQUIRED.
4. NOISE SENSOR MICROPHONES ARE NOT SHOWN. CONTRACTOR SHALL DETERMINE LOCATION AND QUANTITY OF NOISE SENSORS REQUIRED BASED ON FIELD CONDITIONS AND FINAL PAGING ZONE CONFIGURATIONS.
5. EXISTING SPEAKERS BEING RELOCATED SHALL BE CLEANED AND TESTED PRIOR TO BEING RE-INSTALLED. CONTRACTOR SHALL PROVIDE NEW WIRE (LIKE FOR LIKE) FOR EXISTING SPEAKERS.
6. THE CIRCUITING AND ROUTING OF CABLES TO EACH ZONE OF SPEAKERS SHALL BE DETERMINED BY THE CONTRACTOR. THE TOTAL CIRCUIT LOAD OF EACH ZONE AND QUANTITY OF AMPLIFIERS AND OTHER EQUIPMENT REQUIRED TO MEET THE REQUIREMENTS INCLUDING ANY ADJUSTMENTS NECESSARY TO THE EXISTING SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR AS PART OF THE WORK AND COMPLETED PRIOR TO COMMISSIONING IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.

KEY NOTES:

1. EXISTING PAGING ZONE. CONTRACTOR SHALL MAKE ADJUSTMENT TO THE EXISTING PAGING ZONE INCLUDING BUT NOT LIMITED TO ADDING/DELETED SPEAKERS, NOISE SENSORS, AMPLIFIERS, ADJUSTING VOLUME, ETC., AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
2. NEW PAGING ZONE. SPEAKERS SHALL BE MOUNTED TO CANOPY AND CABLE INSTALLED IN 3/4" CONDUIT. ONE (1) 1" CONDUIT WILL BE ROUTED THROUGH THE CAST-IN-PLACE COLUMN TO ENTER THE BUILDING AND BE ROUTED TO IT ROOM 122 (A11).
3. NEW PAGING ZONE. SPEAKERS SHALL BE MOUNTED TO CANOPY AND CABLE INSTALLED IN 1/2" CONDUIT. ONE (1) 1" CONDUIT WILL BE ROUTED THROUGH THE CAST-IN-PLACE COLUMN TO ENTER THE GARAGE GROUND LEVEL EQUIPMENT ROOM.
4. PROVIDE ONE (1) 1" C. FOR PAGING AND ONE (1) 1-1/4" C. FOR SECURITY ROUTED TO IT ROOM 122 (BUILDING MANAGMENT ROOM A11) ON THE RAMP LEVEL, REFER TO SHEETS T103 AND T105 FOR PROPOSED ROUTING.
5. PROVIDE ONE (1) 1" C. FOR PAGING AND ONE (1) 1-1/4" C. FOR SECURITY, STUB FOR CONNECTION TO CONDUITS PROVIDED IN VOLUME 1. CONDUITS WILL BE ROUTED TO GARAGE ELECTRIC ROOM 102 IN VOLUME I. REFER TO VOLUME I SHEET T100, COORDINATE WITH THE COMMUNICATIONS CONTRACTOR.
6. ROUTE CONDUITS THROUGH CAST IN PLACE COLUMN. COORDINATE CONDUIT ROUTING WITH ELECTRICAL AND STRUCTURAL CONTRACTORS AND OTHER TRADES AS REQUIRED.

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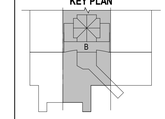
ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



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SEAL:

SHEET TITLE:
PARTIAL COMMUNICATIONS TICKET LEVEL FLOOR PLAN - AREA B - ALT 4

SHEET ID:
T108-4

PROJECT STATUS:
100% BID SET

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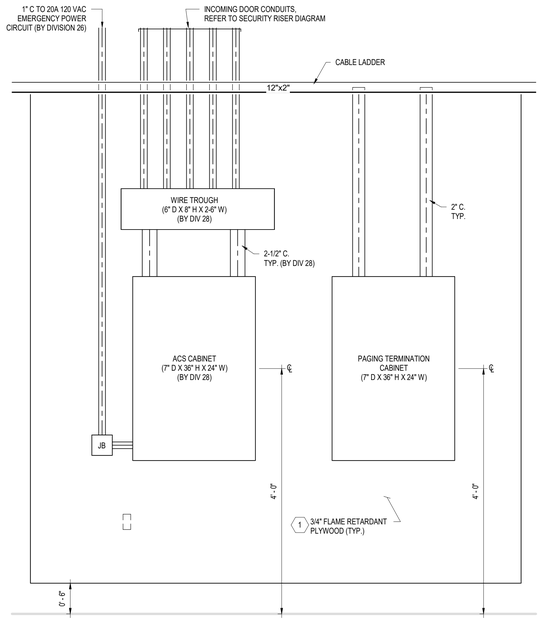
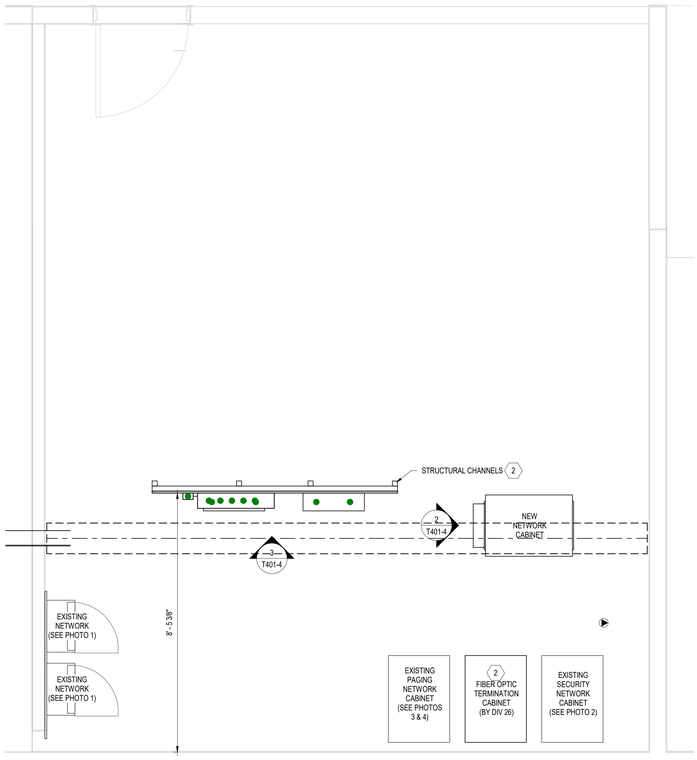


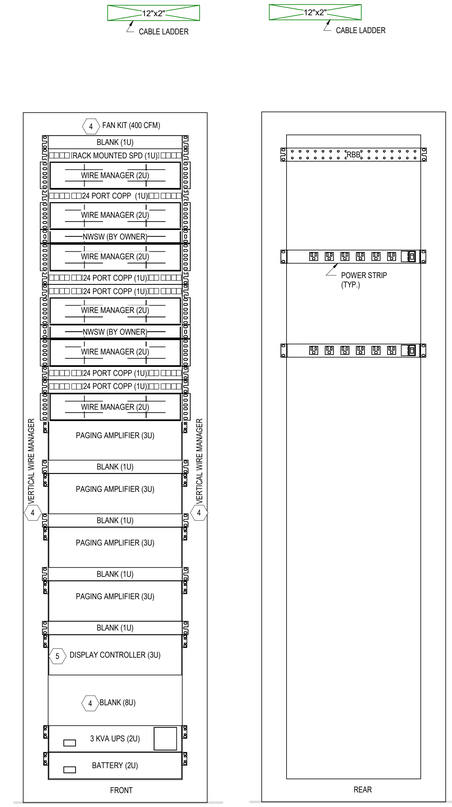
3 PARTIAL WALL ELEVATION - BLGD MGT RM A11 - ALT 4

SCALE: 1" = 1'-0"



1 ENLARGED PLAN BUILDING MANAGMENT ROOM A11 RAMP LEVEL PLAN - ALT 4

SCALE: 1/2" = 1'-0"



2 CABINET ELEVATION - BLDG MGT RM A11 - ALT 4

SCALE: 1 1/2" = 1'-0"

KEY NOTES:

1. PROVIDE 3/4" FLAME RETARDANT PLYWOOD MOUNTED TO WALL. PAINT WITH TWO COATS OF WHITE FLAME RETARDANT ENAMEL ON ALL SIX (6) SIDES. MASK UL LABELS FOR AHJ INSPECTION AFTER INSTALLATION.
2. PROVIDE STRUCTURAL STEEL CHANNELS (1-5/8" MIN.) AND ANCHORS TO SUPPORT PLYWOOD. COORDINATE MOUNTING OF STRUCTURAL STEEL CHANNELS WITH THE CONSTRUCTION MANAGER.
3. NEW FIBER OPTIC TERMINATION CABINET (BY DIV 26), REFER TO VOLUME 1 FOR 48-STAND SM FIBER FROM GARAGE IDF PROVIDED BY ELECTRICAL, REFER TO SHEET E-318.
4. PROVIDE LOCKABLE CABINET WITH VERTICAL WIRE MANAGEMENT (FRONT & REAR), FAN KIT (400 CFM MIN.) AND BLANK PANELS IN ALL UNUSED OPENINGS IN THE FRONT.
5. DISPLAY CONTROLLER FOR NANO LUMENS WALL-MOUNTED DISPLAYS IN CONNECTOR. CONTRACTOR SHALL FURNISH AND INSTALL WITH THE CONTROLLER, ALL CONDUIT, CABLING, MOUNTS AND WALL-MOUNTED DISPLAYS. SEE A308 AND EP105 FOR ADDITIONAL INFORMATION.

NOTES:

1. EXISTING COMMUNICATIONS EQUIPMENT SHALL REMAIN IN PLACE AND BE OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT UNLESS OTHERWISE NOTED. ALL SHUT DOWNS SHALL BE COORDINATED A MINIMUM OF TWO (2) WEEKS IN ADVANCE AND APPROVED IN WRITING BY THE OWNER. THE SUPERINTENDENT AND THE OWNER'S REPRESENTATIVE SHALL BE PRESENT DURING SUCH WORK.
2. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. REFER TO COMMUNICATIONS INTERCONNECT AND RISER DIAGRAMS FOR CABLE AND CONDUIT REQUIREMDNTS. SEE SHEET T001 FOR MODULE REQUIREMENTS FOR EACH OUTLET BY TYPE.
4. CONTRACTOR SHALL COORDINATE WORK WITH THE ELECTRICAL AND SECURITY CONTRACTORS AND OTHER TRADES AS REQUIRED.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW NETWORK SWITCHES AND COMMUNICATIONS EQUIPMENT WITH THE OWNER.
6. CONDUIT (C), CABLE TRAY (C.T.), AND CABLE LADDER (C.L.) ROUTING SHOWN IS SCHEMATIC IN NATURE ACTUAL ROUTING SHALL BE DETERMINED ACCORDING TO FIELD CONDITIONS AND AS COORDINATED WITH OTHER TRADES. DIMENSIONS NOTED ARE TO THE BOTTOM OF CABLE TRAY (C.T.), CABLE LADDER (C.L.) OR CONDUIT (C.) ABOVE FINISHED FLOOR AND ARE FOR REFERENCE ONLY.
7. REFER TO CABLE TRAY AND J-HOOK DETAILS ON SHEET T502.
8. APPROVED UL DEVICES SHALL BE USED TO SEAL PENETRATIONS THROUGH FIRE RATED WALLS.



PHOTO 3 (EXISTING PAGING NETWORK)



PHOTO 4 (EXISTING PAGING NETWORK)

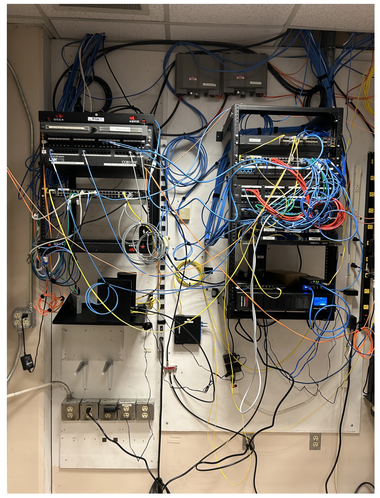


PHOTO 1 (EXISTING NETWORK)



PHOTO 2 (EXISTING SECURITY NETWORK)

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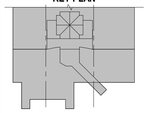

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DESIGNED BY:	RJF
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SEAL:

SHEET TITLE:
ENLARGED COMMUNICATIONS PLANS - ALT 4

SHEET ID:
T401-4

PROJECT STATUS:
100% BID SET

1 0 1
SCALE: 1 1/2"= 1'-0"
1 0 1 2
SCALE: 1" = 1'-0"
2 0 2 4
SCALE: 1/2" = 1'-0"

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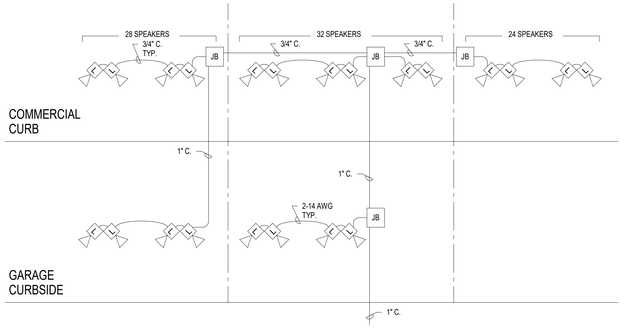
NOTES:

1. THESE DIAGRAMS ARE SCHEMATIC IN NATURE AND MAY NOT SHOWN ALL EQUIPMENT, CONDUIT, RACEWAY, JUNCTION BOXES, ELBOWS, BENDS OR TURNS REQUIRED. CONTRACTOR SHALL PROVIDE A COMPLETE RACEWAY SYSTEM AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE WRITTEN SPECIFICATIONS.
2. ALL EQUIPMENT, RACEWAY SHALL BE NEW UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL PROPOSE CONDUIT ROUTING ACCORDING TO FIELD CONDITIONS AS COORDINATED WITH OTHER TRADES AND SUBMIT SHOP DRAWINGS FOR APPROVAL.
4. INSTALLATION OF SECURITY CAMERA CONDUIT SHALL BE COORDINATED WITH THE DIVISION 28 CONTRACTOR. CAMERA CONDUITS SHALL BE DEDICATED FOR CAMERA CABLES ROUTED TO THE IT ROOM.

KEY NOTES: ⬡

1. ROUTE CONDUITS TIGHT TO SUPPORT FROM CANOPY STRUCTURE, COORDINATE WITH STRUCTURAL CONTRACTOR.
2. MOUNT CAMERAS TO STRUCTURAL COLUMNS, REFER TO CAMERA SCHEDULE FOR CAMERA MOUNTING DETAIL.
3. ROUTE CONDUIT THROUGH CASE IN PLACE CONCRETE COLUMN, COORDINATE WITH OTHER DISCIPLINES.
4. STUB CONDUIT FOR CONNECTION WITH CONDUITS FROM GARAGE ELECTRIC ROOM, REFER TO SHEET T108 AND VOLUME 1 DRAWINGS FOR ADDITIONAL INFORMATION.



3 PAGING RISER DIAGRAM - COMMERCIAL CURB - ALT 4

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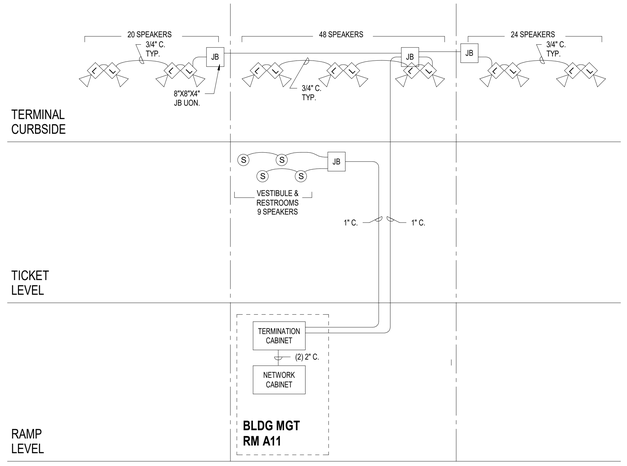

4 PAGING RISER DIAGRAM - TERMINAL - ALT 4

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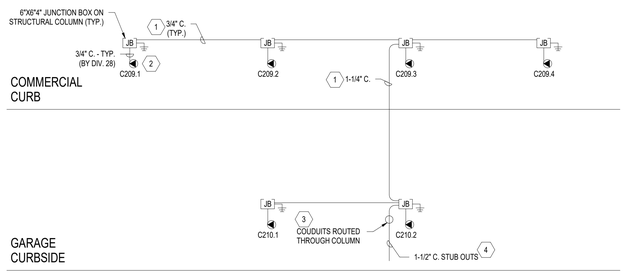
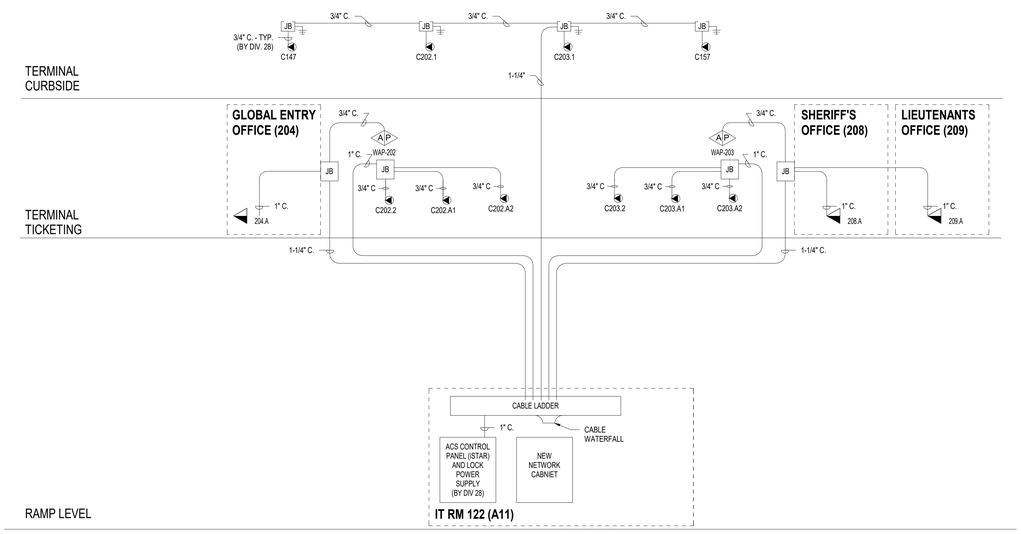


1 COMMUNICATIONS RISER DIAGRAM - COMMERCIAL CURB - ALT 4

SCALE: N.T.S.



2 COMMUNICATIONS RISER DIAGRAM - TERMINAL - ALT 4

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Hartranft Lighting Design

ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	JAP
DRAWN BY:	RJF
DESIGNED BY:	RJF
PROJECT NUMBER:	**2003-0070-006**

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SEAL:

SHEET TITLE:
COMMUNICATIONS RISER DIAGRAM - ALT 4

SHEET ID:
T702-4

PROJECT STATUS:
100% BID SET

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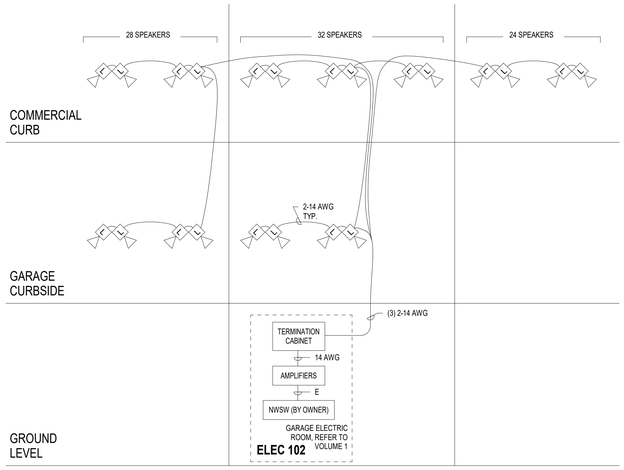
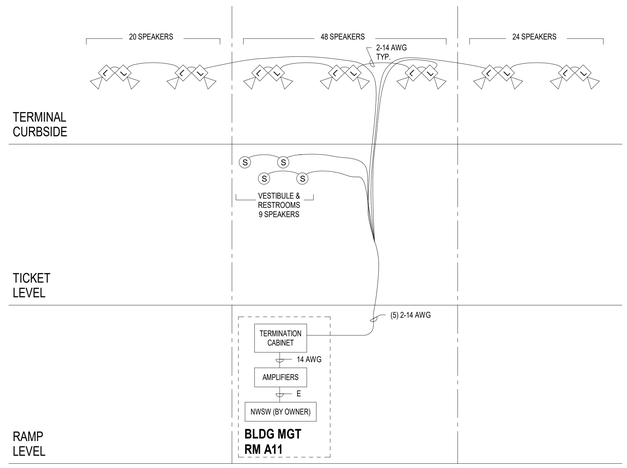


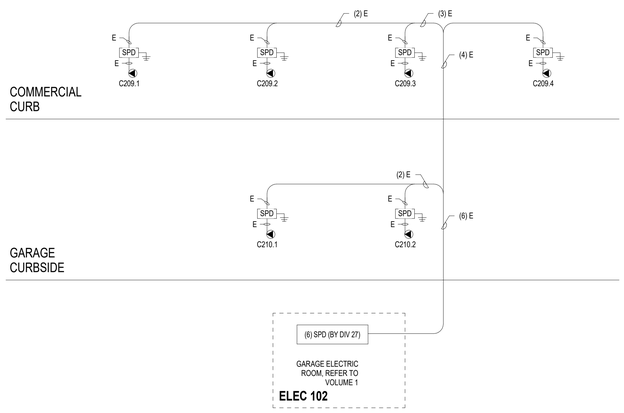
3 PAGING INTERCONNECT DIAGRAM - COMMERCIAL CURB - ALT 4

SCALE: N.T.S.



4 PAGING INTERCONNECT DIAGRAM - TERMINAL - ALT 4

SCALE: N.T.S.



1 COMMUNICATIONS INTERCONNECT DIAGRAM - COMMERCIAL CURB - ALT 4

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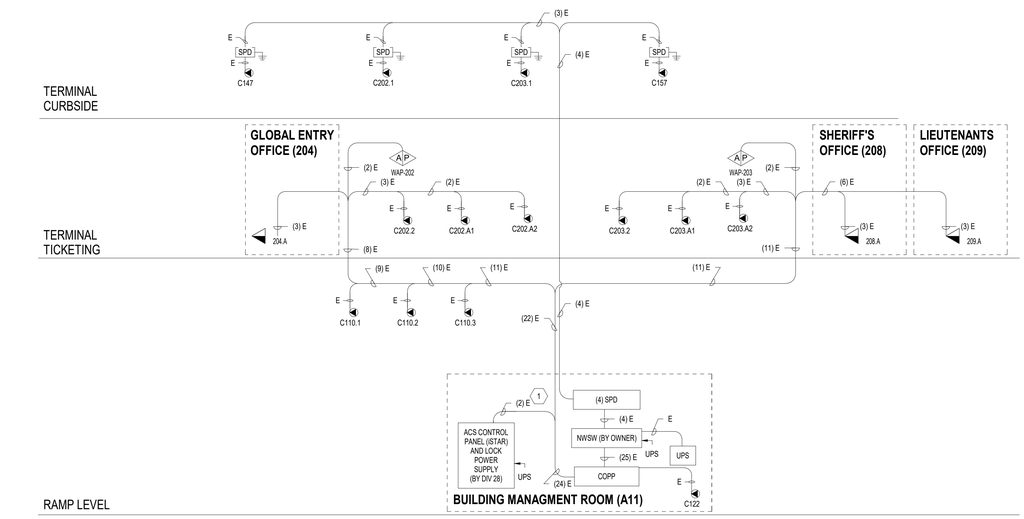

2 COMMUNICATIONS INTERCONNECT DIAGRAM - TERMINAL - ALT 4

SCALE: N.T.S.

NOTES:

1. THIS DIAGRAM IS SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. CONTRACTOR SHALL PROVIDE A COMPLETE AND WORKING SYSTEM AS SHOWN IN THE DRAWINGS AND DESCRIBED IN THE WRITTEN SPECIFICATIONS.
2. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. REFER TO RISER DIAGRAMS FOR ADDITIONAL INFORMATION.
4. REFER TO THE FLOOR PLANS FOR TERMINATION LOCATIONS.
5. CONTRACTOR SHALL COORDINATE THE TERMINATION OF FIBER OPTIC CABLES WITH THE OWNER. REFER TO ELECTRICAL PLANS FOR ROUTING OF EXISTING COMMUNICATIONS DUCT BANK.
6. ALL NETWORK SWITCHES SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. COORDINATE WORK WITH THE OWNER'S IT REPRESENTATIVE.

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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WILMINGTON, NC 28405

REVISIONS

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DRAWN BY:	RJF
DESIGNED BY:	RJF
PROJECT NUMBER:	2003-0070-006

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SHEET TITLE:
COMMUNICATIONS INTERCONNECT DIAGRAM - ALT 4

SHEET ID:
T703-4

PROJECT STATUS:
100% BID SET

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SENSITIVE SECURITY INFORMATION

SECURITY ABBREVIATIONS

ACS	ACCESS CONTROL SYSTEM
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AOA	AIRCRAFT OPERATIONS AREA
AV	AUDIO/VISUAL
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CRASHBAR
CR	CARD READER
D	DURESS ALARM BUTTON
DIA	DIAMETER
DIV	DIVISION
DO	DOOR OPERATOR
DPDT	DOUBLE-POLE DOUBLE-THROW
DPS	DOOR POSITION SWITCH
EH	ELECTRIC HOLD OPEN
EL	ELECTRIC LOCK
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ER	EXISTING TO REMOVE
ES	ELECTRIC STRIKE
ET	ELECTRIC TRIM
EX	EXISTING TO REMAIN
FOTCVR	FIBER OPTIC ETHERNET TRANSCEIVER
GRS	GALVANIZED RIGID STEEL
I/O	INPUT/OUTPUT
IC	INTERCOM STATION
IDF	INTERMEDIATE DISTRIBUTION FRAME
IP	INTERNET PROTOCOL
ISO	ISOMETRIC
JB	JUNCTION BOX
KP	KEY PAD
KS	KEY SWITCH
LA	LOCAL ANNUNCIATOR
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT EMITTING DIODE
MAX	MAXIMUM
MD	MOTION DETECTOR
MFG	MANUFACTURER
MIN	MINIMUM
ML	MAGNETIC LOCK
MM	MULTIMODE
MS	MAGNETIC SWITCH
NTS	NOT TO SCALE
OPS	OPERATIONS
PB	PUSHBUTTON
PH	PANIC HARDWARE
PI	PASSIVE INFRARED
PoE	POWER OVER ETHERNET
PP	PATCH PANEL
PR	DOOR RELEASE PUSHBUTTON
PS	POWER SUPPLY
PT	POWER TRANSFER
PTZ	PAN-TILT-ZOOM
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
REF	REFERENCE
REX	REQUEST-TO-EXIT
RS	RIGID STEEL
RX	RECEIVER
S/TP	SHIELDED/TWISTED PAIR
SH	SHIELDED
SM	SINGLE MODEL
SPD	SURGE SUPPRESSION DEVICE
SS	STRIKE SWITCH
SSCP	SECURITY SCREENING CHECKPOINT
TBD	TO BE DETERMINED
TD	TIME DELAY
TP	TWISTED PAIR
TS	TAMPER SWITCH
TX	TRANSMITTER
TYP	TYPICAL
U/TP	UNSHIELDED/TWISTED PAIR
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
VMS	VIDEO MANAGEMENT SYSTEM
WT	WIRE TROUGH
WG	WIDE-GAP DPS

SECURITY SYMBOLS

- CR — CARD READER [ACCESS CONTROL]. SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
- SECURITY CONTROL PANEL
- EL — ELECTRONIC LOCK [ACCESS CONTROL]. SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
- DPS — DOOR POSITION SWITCH [ACCESS CONTROL]. SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
- PR — DOOR RELEASE PUSHBUTTON [ACCESS CONTROL]. SEE SPECIFICATION DIVISION 28 FOR ADDITIONAL INFORMATION.
- FIXED SURVEILLANCE CAMERA. SEE SCHEDULE FOR CAMERA TYPE. ONE (1) CAT 6 CONNECTOR AND CABLE PROVIDED BY DIV 27.
- 360° FIXED SURVEILLANCE CAMERA. SEE SCHEDULE FOR CAMERA TYPE. ONE (1) CAT 6 CONNECTOR AND CABLE PROVIDED BY DIV 27.
- 180° FIXED SURVEILLANCE CAMERA. SEE SCHEDULE FOR CAMERA TYPE. ONE (1) CAT 6 CONNECTOR AND CABLE PROVIDED BY DIV 27.

CABLE LEGEND & COLOR SCHEMES

CABLE LEGEND

ID	DESCRIPTION	DEVICE
A	6-24 AWG SHIELDED	CARD READER (WIEGAND INTERFACE)
	2-24 AWG TWISTED PAIR, OVERALL SHIELD	CARD READER (OSDP INTERFACE)
B	4-22 AWG UNSHIELDED	MISC. INPUT (DPS/REX/TD)
C	4-14 AWG UNSHIELDED	ANNUNCIATOR (HORN/STROBE)
D	2-14 AWG UNSHIELDED	MISC. OUTPUT (LOCK) LENGTH < 100'
	2-12 AWG SHIELDED	MISC. OUTPUT (LOCK) LENGTH < 200'
E	CATEGORY 6 UTP	ETHERNET (VOICE/DATA/VIDEO)
E1	OUTDOOR RATED CATEGORY 6 UTP (GEL FILLED)	ETHERNET (VOICE/DATA/VIDEO)
E2	CATEGORY 6 STP	ETHERNET (DATA/VIDEO)
F	2-18 AWG UNSHIELDED	FIRE ALARM RELAY AND MISC. I/O
X	SINGLE-MODE FIBER	FIBER OPTIC PATCH CABLE

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL NEW DEVICE AND EQUIPMENT LOCATIONS PRIOR TO THE START OF INSTALLATION. ANY CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.
2. MINIMUM CONDUIT SIZE SHALL BE 3/4" WITH THE EXCEPTION OF "DROP CONDUITS" AT DOOR LOCATIONS, WHICH MAY BE 1/2". ALL CONDUITS SHALL BE EMT; EXCEPTIONS INCLUDE:
   A. GRS FOR EXTERIOR AREAS
   B. RS FOR AREAS ACCESSIBLE TO THE PUBLIC
   C. PVC FOR BURIED OR CAST-IN-PLACE CONDUITS
   D. FLEXIBLE CONDUIT FOR CONCEALED DROPS TO DEVICES AND WHERE APPROVED BY THE OWNER.
3. CONDUIT FILL SHALL NOT EXCEED 40%. INSTALLATION OF CONDUIT AND WIRING SHALL BE IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE (NEC). ALL WIRING SHALL BE HOMERUN, UNLESS OTHERWISE NOTED. ANY SPLICES SHALL BE APPROVED BY THE DESIGNER.
4. CONTRACTOR SHALL COORDINATE THE ROUTING AND LOCATION OF SECURITY CONDUITS WITH THE ELECTRICAL CONTRACTOR AND OTHER TRADES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT LINE VOLTAGE (120V AND ABOVE) POWER CONDUCTORS ARE NOT ROUTED WITHIN 12 INCHES OF COMMUNICATIONS WIRING.
6. ALL CONDUCTORS SHALL BE COLOR CODED AND TAGGED AS INDICATED ON DRAWINGS, DESCRIBED IN THE WRITTEN SPECIFICATIONS AND APPROVED BY THE OWNER.
7. COORDINATE WORK WITH OTHER TRADES AND CONFIRM FINAL MOUNTING LOCATION FOR NEW AND RELOCATED EQUIPMENT WITH THE OWNER PRIOR TO INSTALLATION.
8. CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES FOR ALL EQUIPMENT. UNLESS OTHERWISE NOTED, ALL MATERIALS SHALL BE NEW AND UNUSED.
9. ALL RACEWAY, CONDUIT AND JUNCTION BOXES SHALL BE NEW AND INSTALLED WITH PULL STRING. REUSE OF EXISTING CONDUITS SHALL BE APPROVED BY THE OWNER.
10. CONDUITS PENETRATING FIRE RATED WALLS OR FLOORS SHALL USE APPROVED U.L. DEVICES IN ORDER TO MAINTAIN FIRE RATING OF THE WALL OR FLOOR.
11. ALL SECURITY CABLING SHALL BE INSTALLED IN DEDICATED CONDUIT.
12. MAINTAIN MINIMUM BENDING RADII FOR ALL CABLES ACCORDING TO THE CABLE MANUFACTURER AND PER BICSI AND ANSI/TIA STANDARDS.
13. ALL WIRING, CABLING AND CONDUCTORS SHALL BE NEW UNLESS REUSE OF EXISTING IS APPROVED BY THE OWNER.
14. ALL WORK SHALL BE CLOSELY COORDINATED WITH THE OWNER. ANY WORK AFFECTING AIRPORT OPERATIONS, CBP, TSA OR TENANTS SHALL BE SCHEDULED IN ADVANCE AND PRE-APPROVED BY THE OWNER.
15. IF EXISTING EQUIPMENT SHALL BE DECOMMISSIONED, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO PROPERLY SHUT DOWN EQUIPMENT PRIOR TO DISCONNECTING. CONTRACTOR SHALL PROPERLY STORE EQUIPMENT ON SITE AT AN AREA DESIGNATED BY THE OWNER UNTIL THE EQUIPMENT IS REINSTALLED OR CONVEYED TO THE OWNER UPON COMPLETION OF THE PROJECT.
16. ALL OUTLET BOXES SHALL BE MIN. 4" WIDE BY 4" HIGH BY 2 1/2" DEEP WITH SINGLE GANG MUD RING.
17. ACCESS CONTROL SYSTEM CONDUCTORS SHALL BE SHIELDED COPPER AND MINIMUM 18 AWG, UNLESS OTHERWISE NOTED. SECURITY CONDUCTORS SHALL NOT SHARE CONDUIT WITH CONDUCTORS OF OTHER TRADES.

DEMOLITION NOTES

1. PORTIONS OF THE WORK SHALL INCLUDE THE DEMOLITION OF EXISTING EQUIPMENT, ASSOCIATED MOUNTING HARDWARE, BACK BOXES, CONNECTIONS, CONDUIT, RACEWAY, AND CABLING BACK TO THE SOURCE.
2. DEMOLITION INCLUDES THE REMOVAL OF ALL ELECTRONIC EQUIPMENT AND CABLING TO BE REUSED OR REPLACED.
3. ANY EQUIPMENT DEMOLISHED BY THE CONTRACTOR SHALL BE INVENTORIED AND RETURNED TO THE OWNER UPON DECOMMISSIONING, INCLUDING STORING AT A SECURE LOCATION ON SITE AS DETERMINED BY THE OWNER.
4. FOR DECOMMISSIONED EQUIPMENT, WHETHER TEMPORARILY REMOVED DURING CONSTRUCTION AND REINSTALLED AT A LATER DATE OR PERMANENTLY DECOMMISSIONED, CONTRACTOR SHALL TAG AND MAINTAIN A LOG OF ALL HARDWARE. TAGS SHALL INCLUDE DATE REMOVED, EQUIPMENT IDENTIFICATION, AND LOCATION INFORMATION.
5. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL DEMOLITION WITH THE OWNER PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL MAINTAIN CONTROL OF THE SITE AT ALL TIMES DURING CONSTRUCTION.
6. REMOVE ALL CABLES FROM DECOMMISSIONED DEVICES AND PORTS BACK TO SOURCE. CONTRACTOR SHALL DEMOLISH ABANDONED RACEWAY EXCEPT FOR BURIED CONDUITS WHICH MAY BE CAPPED FOR FUTURE USE.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SECURITY OF THE SIDA, STERILE AREA, AND SECURED SPACES WHILE PERFORMING WORK IN THOSE AREAS. CONTRACTOR SHALL COORDINATE WORK WITH AIRPORT SECURITY, TSA, AND TENANTS.

SECURITY SHEET INDEX - ALT 4

SHEET NUMBER	SHEET NAME

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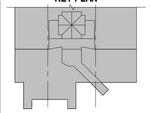
Hartranft Lighting Design

ILM

PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	JAP
DRAWN BY:	RJF
DESIGNED BY:	RJF
PROJECT NUMBER:	**2003-0070-006**

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SHEET TITLE:
SECURITY GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS - ALT 2

SHEET ID:
TY001-4

PROJECT STATUS:
100% BID SET

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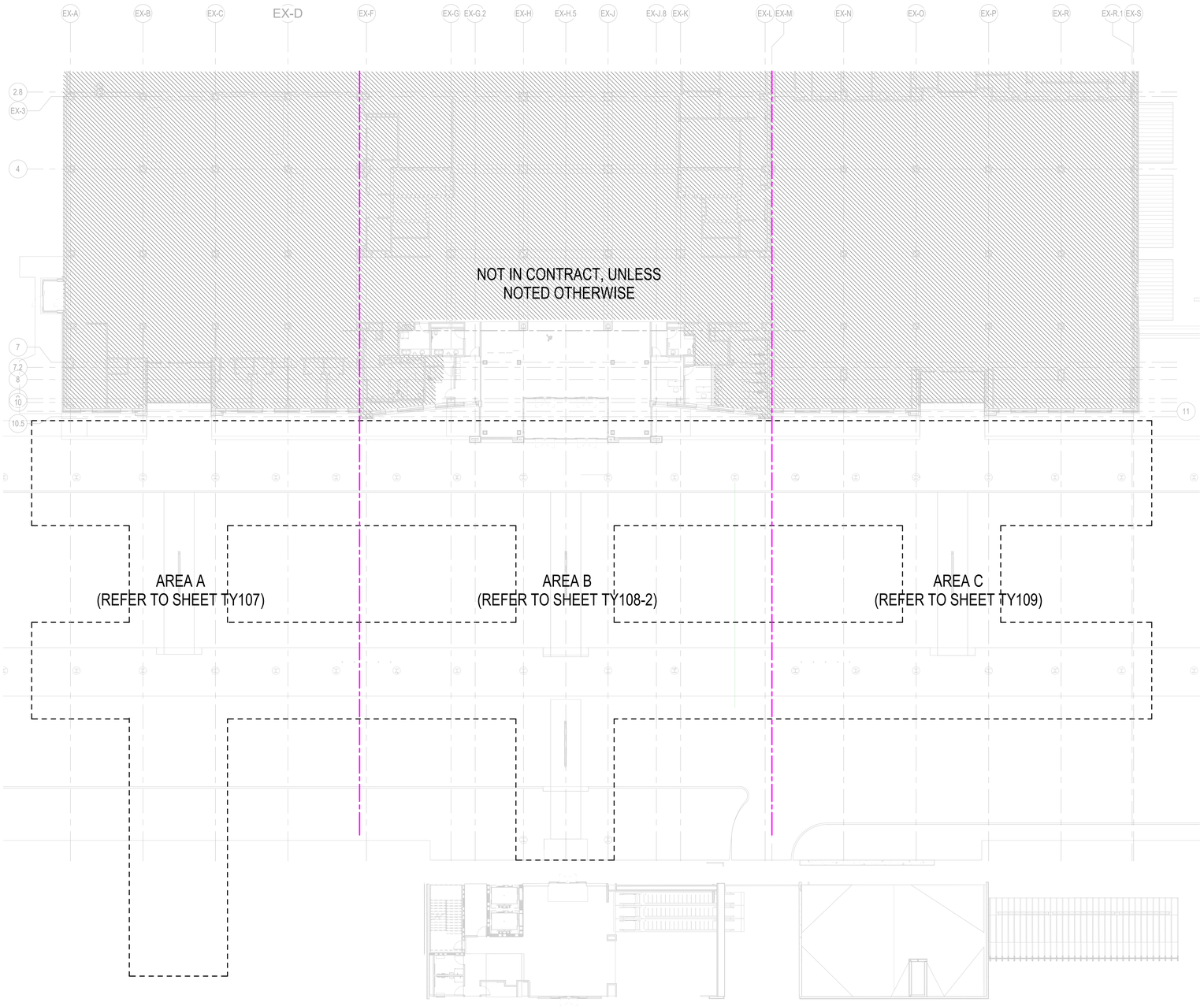

PN

1 OVERALL SECURITY TICKET LEVEL FLOOR PLAN - ALT 4

SCALE: 1/16" = 1'-0"

16 0 16 32

SCALE: 1/16" = 1'-0"

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WILMINGTON, NC 28405

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
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SHEET TITLE:
OVERALL SECURITY TICKET LEVEL FLOOR PLAN - ALT 4

SHEET ID:
TY106-4

PROJECT STATUS:
100% BID SET

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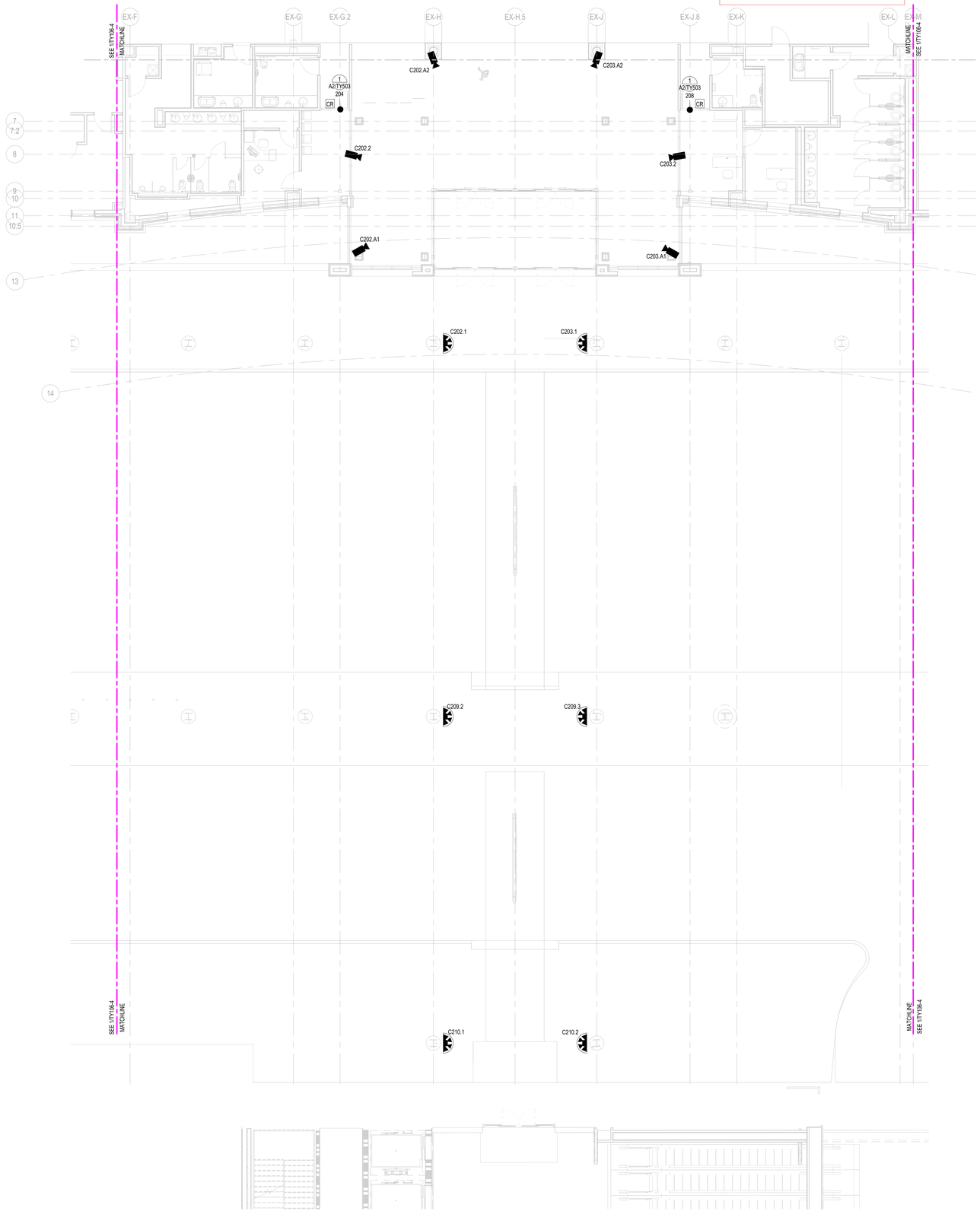

NOTES:

1. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SECURITY DEVICES WITH ELECTRICAL AND OTHER TRADES AS REQUIRED.
3. CONDUIT AND CAT 6 CABLING FOR SURVEILLANCE CAMERAS SHALL BE PROVIDED BY DIVISION 27, REFER TO COMMUNICATIONS DRAWINGS. COORDINATE INSTALLATION WITH THE COMMUNICATIONS CONTRACTOR.
4. APPROVED UL DEVICES SHALL BE USED TO SEAL PENETRATIONS THROUGH FIRE RATED WALLS.

1 PARTIAL SECURITY TICKET LEVEL PLAN - ALT 4 - AREA B

SCALE: 1/8" = 1'-0"

8 0 8 16

SCALE: 1/8" = 1'-0"

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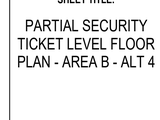

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PROJECT NUMBER:	2003-0070-006

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SEAL:

SHEET TITLE:
PARTIAL SECURITY TICKET LEVEL FLOOR PLAN - AREA B - ALT 4

SHEET ID:
TY108-4

PROJECT STATUS:
100% BID SET

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