WILMINGTON INTERNATIONAL AIRPORT (ILM)

ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

1740 AIRPORT BLVD.
WILMINGTON, NC 28405

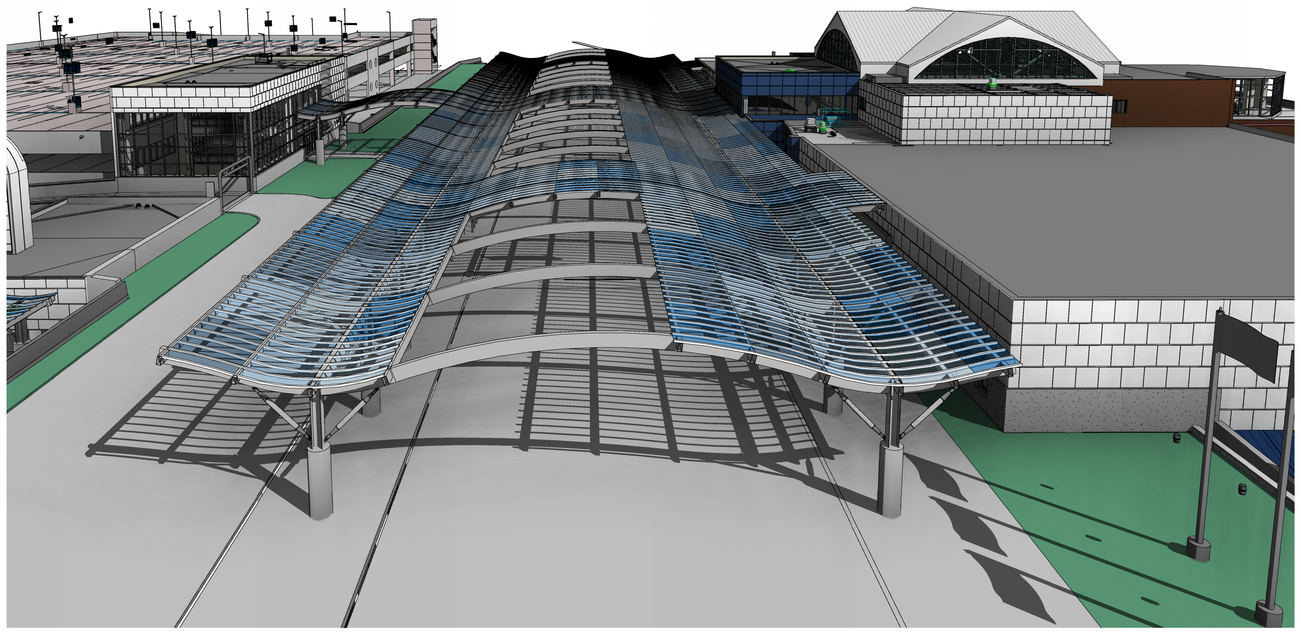
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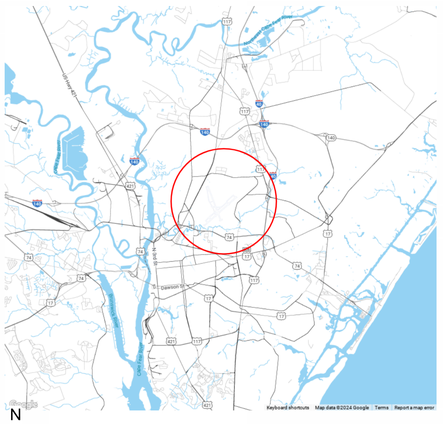
VOL. II - TERMINAL EXPANSION, ALTERATIONS, AND CONNECTOR - BASE BID

03/14/2025

AEC PROJECT NUMBER
1003-0070-004

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N

AERIAL MAP



N

VICINITY MAP

Apple Designs

hartranft lighting STUDIOS

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CIVIL ENGINEERING:
RS&H
1520 SOUTH BLVD., SUITE 200
CHARLOTTE, NC 28203

MECHANICAL/ PLUMBING:
RS&H
1520 SOUTH BLVD., SUITE 200
CHARLOTTE, NC 28203

ARCHITECTURE:
RS&H
1520 SOUTH BLVD., SUITE 200
CHARLOTTE, NC 28203

ELECTRICAL
RS&H
1520 SOUTH BLVD., SUITE 200
CHARLOTTE, NC 28203

STRUCTURAL
RS&H
1520 SOUTH BLVD., SUITE 200
CHARLOTTE, NC 28203

LIGHTING DESIGNER
HARTRANFT LIGHTING DESIGN
12 FULTON RD
ANDOVER, MA 01810

TECHNOLOGY/ SECURITY:
RS&H
1520 SOUTH BLVD.,SUITE 200
CHARLOTTE, NC 28203

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

REVISIONS

NO.	DESCRIPTION	DATE

NOT ISSUED FOR CONSTRUCTION

BUILDING ID: BLDG. ID

3/14/2025 9:21:31 PM Autodesk Docs://1003007/0004_ILM TO4 Rdwy Inf Improv Design/1003007/0004_ILM_TO4 Terminal and Tunnel_A_R24.rvt

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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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SEAL:

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NOT FOR CONSTRUCTION

SHEET TITLE:
SHEET INDEX

SHEET ID:
G002

PROJECT STATUS:
100% BID SET

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2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: ILM Airport Boulevard and Parking Improvements – Phase II Vol 2
Address: 1740 Airport Blvd. Wilmington, NC Zip Code 28405
Owner/Authorized Agent: Mike Doyle Phone # (910) 899 - 2446 E-Mail mdoyle@montesthco.com
Owned By: Private
Code Enforcement Jurisdiction: County

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	RS&H	Joseph Epstein	14316	(740)940-4733	joseph.epstein@rsandh.com
Civil	RS&H	Dale Stubbs	055021	(678)293-1993	dale.stubbs@rsandh.com
Electrical	RS&H	Chris Durrod	056776	(904)256-2190	chris.durrod@rsandh.com
Fire Alarm	RS&H	Scott Leopold	052256	(904)256-2373	scott.t.leopold@rsandh.com
Plumbing	RS&H	Keith Nix	11858	9044256-2424	keith.nix@rsandh.com
Mechanical	RS&H	Keith Nix	11858	(904)256-2424	keith.nix@rsandh.com
Sprinkler-Standpipe	RS&H	Scott Leopold	052256	(904)256-2373	scott.t.leopold@rsandh.com
Structural	RS&H	Juan Salas	052621	(904)256-2424	juan.salas@rsandh.com
Retaining Walls >5' High	RS&H	Juan Salas	052621	(904)256-2424	juan.salas@rsandh.com
Other				( )	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2024 NC BUILDING CODE: Addition

2024 NC EXISTING BUILDING CODE: Alteration Level II N/A N/A
CONSTRUCTED: (date) 1989 **CURRENT OCCUPANCY(S)** (Ch. 3): A-3
RENOVATED: (date) 2002 **PROPOSED OCCUPANCY(S)** (Ch. 3): A-3

RISK CATEGORY (Table 1604.5): **Current:** III **Proposed:** III

BASIC BUILDING DATA
Construction Type: II-B
Sprinklers: Yes NFPA 13
Standpipes: Class I - Wet
Primary Fire District: No **Flood Hazard Area:** No
Special Inspection: Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	N/A	N/A	N/A
Mezzanine	8,213	0	8,213
2nd Floor	107,881	922	108,803
1st Floor	71,863	4,097 + 4,893	80,853
TOTAL	187,863	9,912	197,869

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimums and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Exterior Building envelope complies with code: Yes (The remainder of this section is not applicable)
Exempt Building: No Provide code or statutory reference:

Climate Zone: 3A

Method of Compliance: Energy Code - Prescriptive
(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation: Min. R-25 continuous insulation
Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:

Exterior Walls (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation: Min. R-13 + R7.5 continuous insulation
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values: Min. per wall assembly

Walls below grade (each assembly)
Description of assembly:
U-Value of total assembly:
R-Value of insulation: Min. R7.5 continuous insulation

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly:
R-Value of insulation:

Floors slab on grade
Description of assembly: concrete slab on grade
U-Value of total assembly: N/R
R-Value of insulation: N/R
Horizontal/vertical requirement: N/R
slab heated: N/A

ALLOWABLE AREA

Primary Occupancy Classification(s): Assembly – A-1 Business Mercantile Select one Select one
Accessory Occupancy Classification(s): Assembly – A2(Restaurant) Mercantile – M (Concession); S-1 (moderate hazard storage rooms)
Incidental Use: (Table 509): N/A
Special Use: (Chapter 4 – List Code Section): 402 covered mall
Special Provisions: (Chapter 5 – List Code Section): N/A
Mixed Occupancy: Yes Separation: N/A Select one Exception: Occupancy separations not required under the covered mall provisions of Section 402
Select one

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \ldots \leq 1$$

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} + \ldots = \quad \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(a) BLDG AREA PER STORY (ACTUAL)	(b) TABLE 506.2[4] AREA	(c) AREA FOR FRONTAGE INCREASE[1,2]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1st Floor	B, S-1(Ramp Level)	80,853	Unlimited	N/A	Unlimited
2nd Floor	A-2,B,M(Ticketing Level)	108,803	Unlimited	N/A	Unlimited
Mezzanine	A-3, B(Administration Level)	8,213	Unlimited	N/A	Unlimited

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (P)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100(F/P - 0.25) \times W/30 =$ _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building n D (maximum 3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [5]
Building Height in Feet (Table 504.3) [1]	75	64	N/A
Building Height in Stories (Table 504.4) [2]	3	3	402.1

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (Is) 1.1
Seismic (Ie) 1.25

Live Loads: Roof 20 psf
Mezzanine 100 psf
Floor 125 psf
Reference S001 for additional Live Load criteria

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 154 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: B
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) III
Spectral Response Acceleration S_s: 0.153 %g S_1: 0.067 %g
Site Classification (ASCE 7) D
Data Source: Historical Data
Basic structural system Steel Systems Not Specifically Detailed for Seismic Resistance
Analysis Procedure: Equivalent Lateral Force
Architectural, Mechanical, Components anchored? N/A

LATERAL DESIGN CONTROL: Wind

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 2,000 psf
Pile size, type, and capacity 18" Auger Cast Piles. Reference Schedule 1/S012

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North	>30	0 HR	0 HR.	N/A	N/A	N/A	N/A
East	>30	0 HR	0 HR.	N/A	N/A	N/A	N/A
West	>30	0 HR	0 HR.	N/A	N/A	N/AV	N/A
South	>30	0 HR	0 HR.	N/A	N/A	N/A	N/A
Interior		0 HR	0 HR.	N/A	N/A	N/A	N/A
Nonbearing Walls and Partitions							
Exterior walls		0 HR	0 HR.	N/A	N/A	N/A	N/A
North	>30	0 HR	0 HR.	N/A	N/A	N/A	N/A
East	>30	0 HR	0 HR.	N/A	N/A	N/A	N/A
West	>30	0 HR	0 HR.	N/A	N/A	N/A	N/A
South	>30	0 HR	0 HR.	N/A	N/A	N/A	N/A
Interior walls and partitions		0 HR	0 HR.	N/A	N/A	N/A	N/A
Floor Construction, including supporting beams and joists		0 HR	0 HR.	N/A	N/A	N/A	N/A
Floor Ceiling Assembly		0 HR	0 HR.	N/A	N/A	N/A	N/A
Columns Supporting Floors		0 HR	0 HR.	N/A	N/A	N/A	N/A
Roof Construction, including supporting beams and joists		0 HR	0 HR.	N/A	N/A	N/A	N/A
Roof Ceiling Assembly		0 HR	0 HR.	N/A	N/A	N/A	N/A
Columns Supporting Roof		0 HR	0 HR.	N/A	N/A	N/A	N/A
Shaft Enclosures – East		N/A	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures – Other F' Min. CMU		1 HR	1 HR.	A40I, A60I	NCIEC-Table 721.1(2)	N/A	N/A
Shaft Enclosures – Other F' Min. CMU		1 HR	1 HR.	A40I, A60I	NCIEC-Table 721.1(2)	N/A	N/A
Corridor Separation		0 HR	0 HR.	N/A	N/A	N/A	N/A
Occupancy/Fire Barrier Separation		0 HR	0 HR.	N/A	N/A	N/A	N/A
Party/Fire Wall Separation		0 HR	0 HR.	N/A	N/A	N/A	N/A
Smoke Barrier Separation		0 HR	0 HR.	N/A	N/A	N/A	N/A
Smoke Partition		0 HR	0 HR.	N/A	N/A	N/A	N/A
Tenant/Dwelling Unit/ Sleeping Unit Separation		1 HR	1 HR.	N/A	N/A	N/A	N/A
Incidental Use Separation		0 HR	0 HR.	N/A	N/A	N/A	N/A

* Indicate section number permitting reduction

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 27.5
summer dry bulb: 91.2

Interior design conditions
winter dry bulb: 70
summer dry bulb: 74
relative humidity: 50%

Building heating load: 133.5 MBh

Building cooling load: 92 MBh

Mechanical Spacing Conditioning System
Unitary
description of unit: Custom Hydronic AHU
heating efficiency: AHRI 410 Certified
cooling efficiency: AHRI 410 Certified
size category of unit: See Schedule
Boiler
Size category. If oversized, state reason.: Existing System Unchanged
Chiller
Size category. If oversized, state reason.: Existing System Unchanged

List equipment efficiencies: AHRI 410 Certified

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30	N/A	N/A	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: No
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G101 & G102

- [x] Fire and/or smoke rated wall locations (Chapter 7)
- [ ] Assumed and real property line locations (if not on the site plan): N/A
- [ ] Exterior wall opening area with respect to distance to assumed property lines (705.8)
- [x] Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- [x] Occupant loads for each area
- [x] Exit sign locations (1013)
- [x] Exit access travel distances (1017)
- [x] Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- [ ] Dead end lengths (1020.4): N/A
- [x] Clear exit widths for each exit door
- [x] Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
- [x] Actual occupant load for each exit door
- [ ] A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation: N/A
- [ ] Location of doors with panic hardware (1010.1.10) : N/A
- [ ] Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) : N/A
- [ ] Location of doors with electromagnetic egress locks (1010.1.9.9) : N/A
- [ ] Location of doors equipped with hold-open devices: N/A
- [ ] Location of emergency escape windows (1030) : N/A
- [ ] The square footage of each fire area (202) : N/A
- [ ] The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) : N/A
- [x] Note any code exceptions or table notes that may have been utilized regarding the items above

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code - Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture: **LED**
number of lamps in fixture: **N/A**
ballast type used in the fixture: **N/A**
number of ballasts in fixture: **N/A**
total wattage per fixture: **See Luminaire Schedules**
total interior wattage specified vs. allowed (whole building or space by space): **5241W vs. 8881W**
total exterior wattage specified vs. allowed: **27230W vs. 29090W**

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
- [ ] C406.2 More Efficient HVAC Equipment Performance
- [ ] C406.3 Reduced Lighting Power Density
- [ ] C406.4 Enhanced Digital Lighting Controls
- [ ] C406.5 On-Site Renewable Energy
- [ ] C406.6 Dedicated Outdoor Air System
- [ ] C406.7 Reduced Energy Use in Service Water Heating

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

USER CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A								

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	
Premium Lot	N/A	295	3	5	8
TOTAL	N/A	295	3	5	8

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS		URINALS	LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G	N/A								
	NEW	N/A								
	REQ'D	N/A								

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

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www.rsandh.com
North Carolina License Nos. 50073 * 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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004
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SEAL:
FOR REVIEW ONLY
NOT FOR CONSTRUCTION

SHEET TITLE:
APPENDIX B

SHEET ID:
G003

PROJECT STATUS:
100% BID SET

1 G003 APPENDIX B
SCALE: 1 1/2" = 1'-0"

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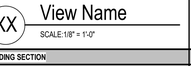
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ARCHITECTURAL ABBREVIATIONS

&	AND
@	AT
A/C	AIR CONDITIONER
AB	ANCHOR BOLT
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFS	ABOVE FLOOR SLAB
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE OR APPROXIMATELY
ARCH	ARCHITECTURE, ARCHITECTURAL
AVG	AVERAGE
AWI	ARCHITECTURAL WOODWORK INSTITUTE
BHMI	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION, INC
BID	BAGGAGE INFORMATION DISPLAY
BIM	BUILDING INFORMATION MODELING
BLDG	BUILDING
BM	BEAM
BO	BOTTOM OF
BUR	BUILT-UP ROOFING
CFMF	COLD FORMED METAL FRAMING
CJ	CONTROL JOINT
CL	CENTERLINE
CL OTS	CENTERLINE OF TENANT SEPARATION
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COLS	COLUMNS
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DR	DOOR
DS	DOWNSPOUT
DTL OR DET	DETAIL
DWG	DRAWING
EA	EACH
EFS	EXTERIOR FACE OF SHEATHING
EJ	EXPANSION JOINT
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATION
ENG	ENGINEER, ENGINEERING
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ERD	EMERGENCY ROOF DRAIN
ETD	ESTIMATED TRAVEL DISTANCE
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXT	EXTERIOR
FD	FIRE DAMPER, FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FID	FLIGHT INFORMATION DISPLAY
FIN.	FINISH, FINISHED
FLR	FLOOR
FO	FACE OF
FOB	FACE OF BRICK
FOP	FACE OF POST
FRP	FIBER REINFORCED PANEL
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GBF	GYPSUM BOARD FURRING
GID	GATE INFORMATION DISPLAY
GL	GLASS
GP	GLOSSY PAINT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIB
HDW	HARDWARE
HGT OR HT	HEIGHT
HKS	HOOKS
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HVAC	HEATING VENTILATION & AIR CONDITIONING
i.e.	THAT IS, SUCH AS
ID	INSIDE DIAMETER
IFS	INTERIOR FACE OF STUD
IN.	INCH, INCHES
INSUL	INSULATION
INT	INTERIOR
JAN.	JANITOR
JST	JOIST
JT	JOINT
KP	KICK PLATE
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LDG	LANDING
LONG.	LONGITUDINAL
LRV	LOUVER
LT	LIGHT
LTG	LIGHTING
LVP	LUXURY VINYL PLANK
LVT	LUXURY VINYL TILE
MATL	MATERIAL
MAX.	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, & PLUMBING
MFGR	MANUFACTURER
MGR	MANAGER
MIN	MINIMUM
MO	MASONRY OPENING
MOD	MODIFIED
MSC	MISCELLANEOUS
MTL	METAL
MUFID	MULTI-USER FLIGHT INFORMATION DISPLAY
N/A	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OPG	OPENING
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVHD	OVERHEAD
PBB	PASSENGER BOARDING BRIDGE
PDU	POWER DISTRIBUTION UNIT
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PRE-FAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RADIUS
RAF	RAISED ACCESS FLOOR
RAG	RETURN AIR GRILLE
RB	RUBBER BASE
RD	ROOF DRAIN
RECEP	RECEPTION, RECEPTIONIST
REF	REINFORCING, REINFORCEMENT
REQ'D	REQUIRED
REV	REVISED, REVISION
RO	ROUGH OPENING
SC	SEALED CONCRETE
SCHED	SCHEDULE
SCW	SOLID CORE WOOD
SECT	SECTION
SF	SQUARE FEET
SFRM	SPRAYED FIRE RESISTIVE MATERIAL
SGP	SEMI-GLOSS PAINT
SHT	SHEET
SHTS	SHEETS
SIM	SIMILAR
SPECS	SPECIFICATIONS
SQ	SQUARE
SQ IN.	SQUARE INCHES
SS	SERVICE SINK
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL, STRUCTURE
SUSP	SUSPENDED
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TG	TEMPERED GLASS
TO STL	TOP OF STEEL
TOB	TOP OF BRICK, TOP OF BEAM
TOS	TOP OF STEEL, TOP OF SLAB
TOSH	TOP OF SHEATHING
TOW	TOP OF WALL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
VB	VAPOR BARRIER
VCT OR VT	VINYL COMPOSITION TILE
VDC	VIRTUAL DESIGN & CONSTRUCTION
VERT	VERTICAL
VR	VIRTUAL REALITY
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WD	WOOD
WMP	WIRE MESH PARTITION
WWF	WELDED WIRE FABRIC
YD	YARD
Ø	DIAMETER

PLAN SYMBOLS

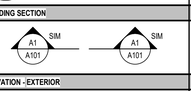
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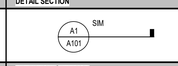
LEVEL HEAD



BUILDING SECTION



DETAIL SECTION



ELEVATION - EXTERIOR



ELEVATION - INTERIOR



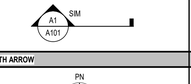
WALL SECTION



CALLOUT HEAD & REGION



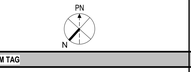
NORTH ARROW



VIEW REFERENCE



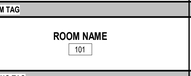
ROOM TAG



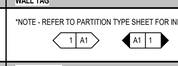
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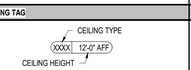
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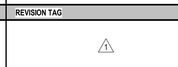
REVISION TAG



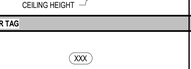
DOOR TAG



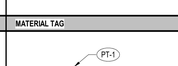
MATERIAL TAG



KEYNOTE



WINDOW & STOREFRONT TAG



FURNITURE & EQUIPMENT TAG

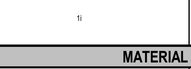


TOILET ACCESSORY TAG

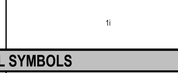


MATERIAL SYMBOLS

BATT INSULATION

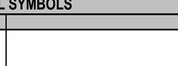


CONCRETE



EARTH

EXPOSED & FINISHED WOOD TRIM



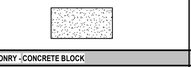
GRASS



GRAVEL



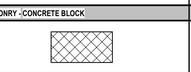
GYPSUM / PLASTER



MASONRY - BRICK



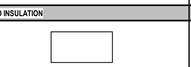
MASONRY - CONCRETE BLOCK



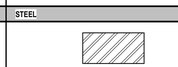
PLYWOOD



RIGID INSULATION



STEEL



STUCCO / E.I.F.S.



TILE / CARPET



GENERAL NOTES

1. ALL DIMENSIONS ARE IN FEET / INCHES UNLESS NOTED OTHERWISE.
2. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS - REFER TO SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
3. ROOM AREAS AND PERIMETERS ARE APPROXIMATE AND FOR REFERENCE ONLY. VERIFY QUANTITIES AND DIMENSIONS IN FIELD.
4. NO DEVIATIONS FROM THESE CONTRACT DOCUMENTS MUST BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
5. DO NOT SCALE DIMENSIONS FROM DRAWINGS - THE CONTRACTOR MUST REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS FROM THE ARCHITECT.
6. ALL DIMENSIONS ORIGINATE FROM EXISTING FACE OF WALLS & ARE TO FACE OF FRAMING AT NEW WORK OR CENTER OF DOORS, WINDOWS AND OPENINGS UNLESS NOTED OTHERWISE - ALL NON-DIMENSIONED DOOR LOCATIONS MUST BE OFFSET 4" FROM THE ADJACENT WALL TO THE HINGE SIDE OF THE DOOR OPENING. ALL DOORS MUST BE INSTALLED TO MEET ALL APPLICABLE CODES, INCLUDING ADA.
7. DETAILS SHOWN ON DRAWINGS ARE TYPICAL FOR ALL SIMILAR CONDITIONS.
8. DRAWING NOTES AND SPECIFICATIONS ARE INSTRUCTIONS TO THE CONTRACTOR AND APPLY TO ALL THE WORK UNLESS MORE SPECIFIC INFORMATION IS SHOWN ELSEWHERE ON THE DRAWINGS OR WRITTEN IN THE SPECIFICATIONS - IN THE EVENT OF CONFLICTING INSTRUCTIONS, THE ARCHITECT MUST DETERMINE WHAT CONTROLS THE CONTRACT DOCUMENTS ARE COMPLEMENTARY WHAT IS REQUIRED BY ONE MUST BE REQUIRED BY ALL.
9. PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS – THE GENERAL CONTRACTOR MUST EXAMINE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR REQUIRED OPENINGS. GENERAL CONTRACTOR MUST VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS PRIOR TO CONSTRUCTION.
10. STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION - THE CONTRACTOR MUST SUPERVISE CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE, AND APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED.
11. CONTRACTOR MUST BE RESPONSIBLE FOR SCHEDULING AND COORDINATING THE WORK OF THE SUB-CONTRACTORS - THE CONTRACTOR MUST BE RESPONSIBLE TO COORDINATE WITH THE BUILDING OWNER, TENANT OR HIS REPRESENTATIVES THE DELIVERY AND INSTALLATION OF ITEMS BEING PROVIDED AND INSTALLED BY OTHERS.
12. MECHANICAL, PLUMBING AND ELECTRICAL WORK RELATED TO DEMOLITION AND NEW INSTALLATION OF COMPONENTS MUST COMPLY WITH ALL APPLICABLE CODES.
13. ALL MATERIALS, FABRICATION AND INSTALLATION MUST COMPLY WITH THE APPLICABLE REQUIREMENTS AND SPECIFICATIONS FOR EACH DIVISION OF WORK.
14. CONSTRUCTION MUST COMPLY WITH APPLICABLE CODES AND ORDINANCES, LAWS AND SAFETY ORDERS AS DIRECTED BY LOCAL JURISDICTION.
15. CONTRACTOR MUST BE RESPONSIBLE FOR THE TIMELY ORDERING OF MATERIALS INCLUDED IN THESE CONTRACT DOCUMENTS - SOME ITEMS IN THESE DOCUMENTS MAY REQUIRE LONG LEAD TIMES OR SPECIAL COORDINATION. SUBSTITUTIONS WILL NOT BE ALLOWED FOR MATERIAL NOT ORDERED IN A TIMELY FASHION.
16. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, (BOTH NEW AND EXISTING) REPORTING ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH ANY PHASE OF THE WORK.
17. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION - ALL DISCREPANCIES MUST BE NOTED AND SENT TO THE ARCHITECT WITH ADEQUATE TIME TO REVIEW PRIOR TO STARTING THAT PORTION OF THE WORK IN ORDER TO AVOID PROJECT DELAYS.
18. CONTRACTOR MUST CLEAN, PATCH AND REPAIR ALL SURFACES DAMAGED BY DEMOLITION, ALTERATION OR INSTALLATION OF THE WORK.
19. CONTRACTOR MUST PREPARE ALL WALLS AND PARTITIONS AS REQUIRED BY THE FINISH MANUFACTURER TO RECEIVE THE FINISHES SPECIFIED.
20. CONTRACTOR MUST PROVIDE ADDITIONAL FURRING (THE ENTIRE LENGTH OF THE WALL) TO FULLY CONCEAL ALL MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL ITEMS THAT PROJECT FROM THE FACE OF THE WALL OR PARTITION AND ARE NOT SPECIFICALLY NOTED TO BE SURFACE MOUNTED.
21. CONTRACTOR TO PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH LOCAL JURISDICTION AND NFPA 10. MAXIMUM TRAVEL DISTANCE TO NEAREST FIRE EXTINGUISHER FROM ANY POINT IN THE BUILDING MUST NOT EXCEED 75 FEET. EXISTING FIRE EXTINGUISHERS MUST BE TESTED AND RE-USED IF FULLY OPERATIONAL. FIRE EXTINGUISHERS MUST BE SIZED FOR NO LESS THAN ORDINARY HAZARD.
22. ALL REQUESTS FROM INFORMATION PROMPTED BY THE BUILDING OFFICIALS MUST INCLUDE A COPY OF THE BUILDING OFFICIALS' COMMENTS AND THE BUILDING INSPECTORS FIELD REPORT TO ENSURE AN ACCURATE AND TIMELY RESPONSE.
23. CONTRACTOR AND SUBCONTRACTOR MUST ALL BE LICENSED TO PERFORM THEIR REQUESTED DUTIES AS REQUIRED IN ACCORDANCE WITH LOCAL STANDARDS.
24. CONTRACTOR MUST COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATION OR INSTALLATION OF STRUCTURAL MEMBERS.
25. ALL EXISTING EQUIPMENT AND FINISHES THAT ARE SCHEDULED OR NOTED TO REMAIN WILL BE PROTECTED BY THE CONTRACTOR. PHOTOGRAPHS OF EXISTING CONDITIONS MUST BE PROVIDED BY THE CONTRACTOR TO DOCUMENT PRE-EXISTING DAMAGE & FINISH CONDITIONS.
26. ALL EXISTING EQUIPMENT AND FINISHES THAT ARE SCHEDULED OR NOTED TO REMAIN WILL BE PROTECTED BY THE CONTRACTOR. PHOTOGRAPHS OF EXISTING CONDITIONS MUST BE PROVIDED BY THE CONTRACTOR TO DOCUMENT PRE-EXISTING DAMAGE & FINISH CONDITIONS.
27. THE CONTRACTOR MUST COORDINATE ALL DEMO AND NEW WORK ACTIVITIES WITH THE AIRPORT PRIOR TO PROCEEDING.
28. MOCK UPS (AS REQUIRED) MUST BE CONSTRUCTED BY THE CONTRACTOR PRIOR TO BEGINNING DEMOLITION WORK.
29. DO NOT USE ESCALATORS OR STAIRS FOR MOVING EQUIPMENT AND OR MATERIALS UNLESS COORDINATED WITH AIRPORT FACILITIES/OPERATIONS. WHEN USING ELEVATOR, ELEVATOR WALL, SIDES AND CEILING MUST BE PROTECTED FROM DAMAGE, ALL DAMAGE IS THE RESPONSIBILITY OF GENERAL CONTRACTOR AND MUST BE CORRECTED PRIOR TO PROJECT COMPLETION.
30. 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.
31. WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
    A. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
32. OPENINGS IN RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES MUST BE SEALED WITH PENETRATION SEALANT SYSTEMS MEETING OR EXCEEDING THE REQUIRED FIRE RESISTIVE RATINGS.
33. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
34. PROVIDE CONTINUOUS PERIMETER FIRE SAFING BETWEEN FLOORS AND COORDINATE THE INSTALLATION WITH THE EXTERIOR WALL. FIRE RATING OF SAFING MUST MATCH FIRE RATING OF FLOOR CONSTRUCTION.
35. FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS.
36. PROVIDE STIFFENERS, BRACING, BACKING PLATES AND BLOCKING REQUIRED FOR SECURE INSTALLATION OF TOILET PARTITIONS, DOORS AND DOOR HARDWARE INCLUDING WALL-MOUNTED DOOR STOPS, HANDRAILS, WALL-MOUNTED SHELVES, OPERABLE PARTITIONS, MISCELLANEOUS EQUIPMENT, AND SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.
37. COORDINATE ALL BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
38. LOCATE ACCESS PANELS AS INDICATED ON DRAWINGS. FOR ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, LOCATED IN ACCORDANCE WITH APPLICABLE CODES. SUBMIT PROPOSED LOCATIONS TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.
39. ALL NON-GALVANIZED EXTERIOR EXPOSED STEEL TO RECEIVE HIGH PERFORMANCE COATING.
40. DO NOT OBSTRUCT ACCESS TO EXISTING EXITS, OR REDUCE THE WIDTH OF PUBLIC CORRIDORS.
41. PENETRATIONS IN THE EXTERIOR BUILDING WALL ARE NOT ALLOWED, INCLUDING THOSE REQUIRED FOR OUTLETS AND BLOCKING.
42. FULLY LAY OUT GRID, WALL, AND OPENING PLACEMENT IN AN AREA PRIOR TO START OF PARTITION CONSTRUCTION. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.
43. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE UNLESS OTHERWISE NOTED.
44. LEVEL FLOORS THAT EXCEED 1/4" VARIANCE IN A 10'-0" RADIUS.
45. COORDINATE INSTALLATION OF DIFFUSERS, SPEAKERS, SPRINKLER HEADS, AND ACCESS PANELS WITH LIGHTING LAYOUT. REPORT ANY CONFLICTS TO THE ARCHITECT PRIOR TO INSTALLATION.
46. EXIT SIGNS AND SMOKE DETECTORS LOCATED IN HARD CEILINGS MUST BE POSITIONED AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND MUST BE CENTERED IN CORRIDORS AND LOCATED A DISTANCE OF 1'-0" FROM THE WALL TO THE CENTER OF THE FIXTURE UNLESS OTHERWISE NOTED.
47. GANG MULTIPLE SWITCHES TOGETHER INTO ONE BOX WITH A SINGLE COVER PLATE WHENEVER POSSIBLE. MULTIPLE SWITCHES, WHICH CANNOT BE GANGED TOGETHER IN THE SAME BOX, MUST BE LOCATED AS CLOSE TOGETHER AS POSSIBLE AND MOUNTED AT THE SAME HEIGHT.
48. APPROVE FLOOR OUTLET LOCATIONS WITH ARCHITECT AND BUILDING MANAGEMENT PRIOR TO CORE DRILLING.
49. WALL OUTLETS MUST BE INSTALLED AT 18" AFF UNLESS OTHERWISE NOTED. INSTALL SWITCH PLATES AT 42" AFF UNLESS OTHERWISE NOTED.
50. DO NOT INSTALL OUTLET OR J-BOXES BACK-TO-BACK ON OPPOSITE SIDES OF THE WALL. BOXES MUST BE SEPARATED BY A STUD.
51. 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, COUNTER FLASHING, SEALANT, ETC. AS REQUIRED TO PROVIDE WATERPROOF CONDITION, TYPICAL AT ALL ROOF PENETRATIONS.

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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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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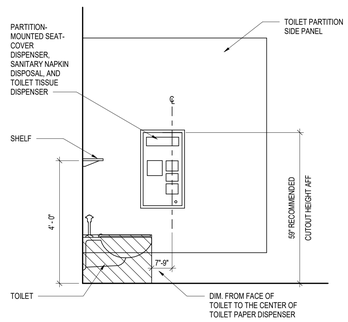
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GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

SHEET ID:
G004

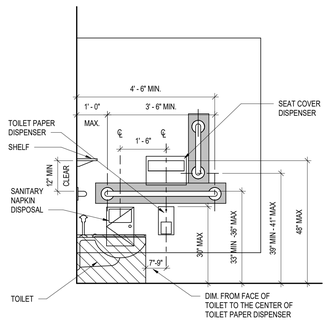
PROJECT STATUS:
100% BID SET

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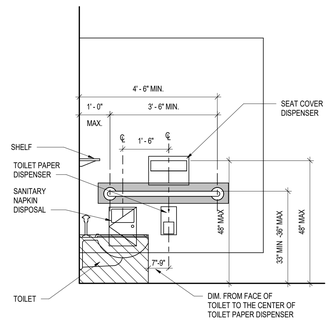
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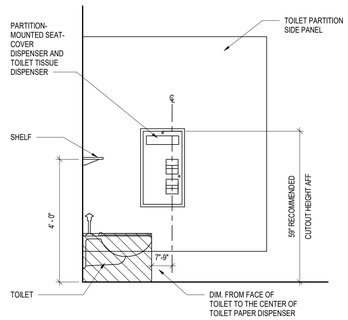
WOMEN STANDARD STALL - TYPICAL



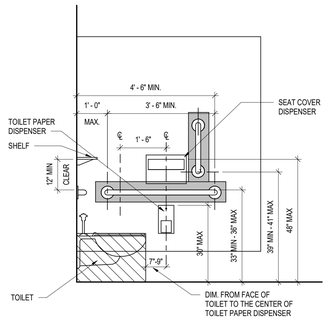
WOMEN WHEELCHAIR ACCESSIBLE STALL & FAMILY STANDARD RESTROOM



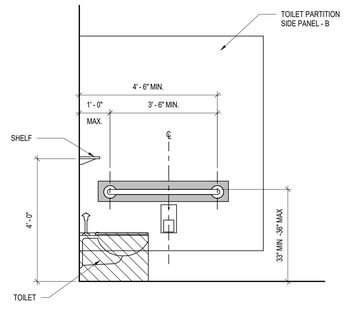
AMBULATORY STANDARD STALL PARTITION A - TYPICAL



MEN STANDARD STALL - TYPICAL



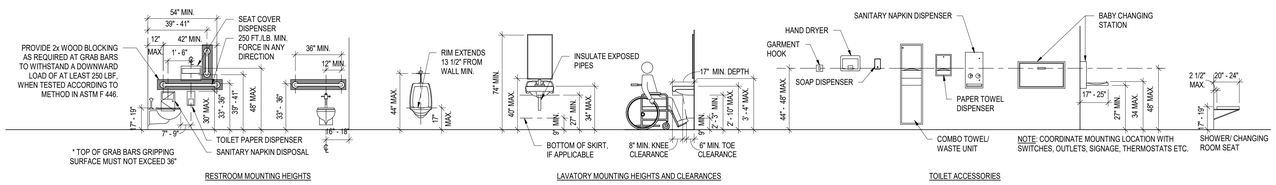
MEN WHEELCHAIR ACCESSIBLE STALL

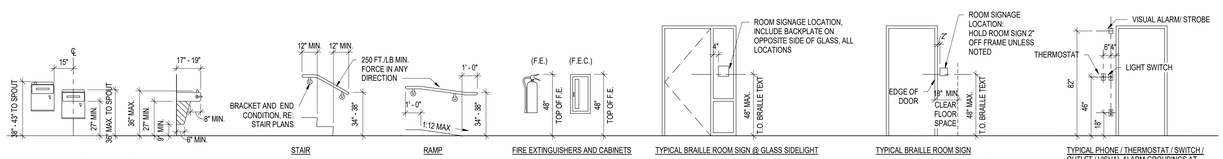


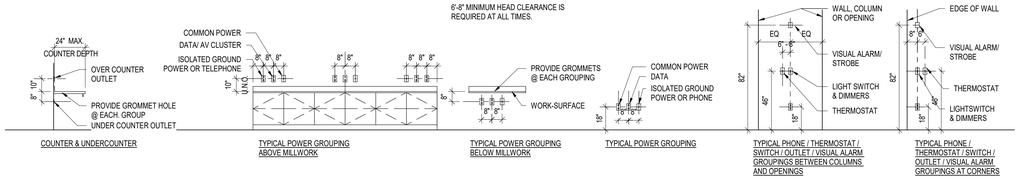
AMBULATORY STANDARD STALL PARTITION B - TYPICAL

RESTROOM ACCESSORIES LOCATION LAYOUT - TOILET PARTITIONS

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

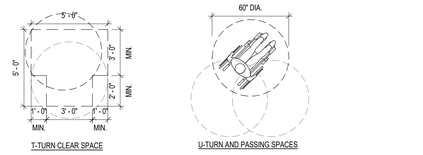


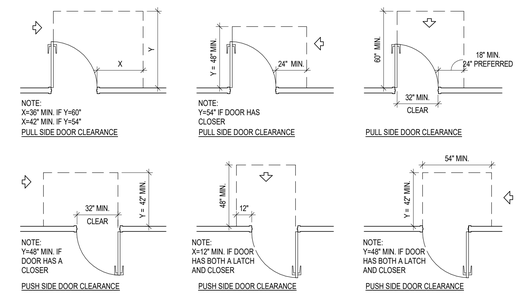




ADA MOUNTING HEIGHTS

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





ACCESSIBILITY DETAILS

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

2 0 2 4

SCALE: 1/2" = 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: SG
DRAWN BY: KS
DESIGNED BY: FG
PROJECT NUMBER:
1003-0070-004

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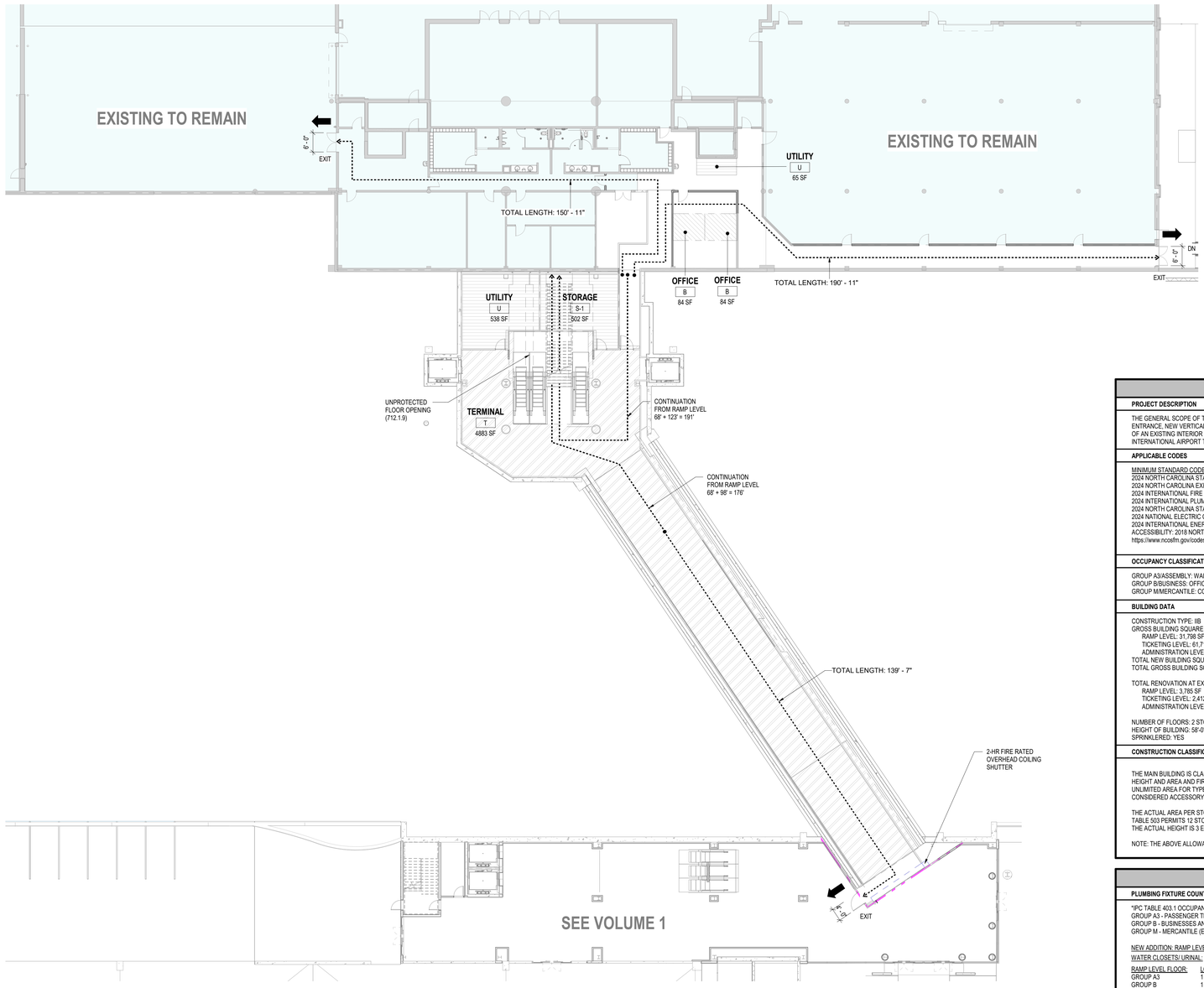
SHEET TITLE:
ADA COMPLIANCE AND ACCESSIBILITY

SHEET ID:
G005

PROJECT STATUS:
100% BID SET

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A1 RAMP LEVEL LIFE SAFETY PLAN

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

LIFE SAFETY LEGEND

SYMBOL LEGEND

- ESCAPE ROUTE TRAVEL PATH
- EXIT

OCCUPANCY LEGEND

- (none)
- ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM
- AIRPORT - TERMINAL
- BUSINESS

PARTITION LEGEND

- NON-RATED WALL SYSTEM
- 1-HOUR RATED WALL SYSTEM
- 2-HOUR RATED WALL SYSTEM
- 3-HOUR RATED WALL SYSTEM
- SMOKE RATED WALL SYSTEM

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

LIFE SAFETY NOTES

1. ORIGINAL OCCUPANCY LOAD OF 410 ON RAMP LEVEL. PROJECT ADDS OCCUPANCY LOAD OF 53 FOR A TOTAL OF 463 OCCUPANTS.

CODE ANALYSIS

PROJECT DESCRIPTION

THE GENERAL SCOPE OF THE PROJECT INCLUDES AESTHETIC ENHANCEMENTS TO THE BUILDING FACADE, A NEW GLAZED ENTRANCE, NEW VERTICAL CIRCULATION, A SUB-GRADE CORRIDOR, A CURBSIDE ARCHITECTURAL CANOPY, RENOVATION OF AN EXISTING INTERIOR PASSAGEWAY, AND RAMP LEVEL RESTROOM MODIFICATIONS AT THE EXISTING WILMINGTON INTERNATIONAL AIRPORT TERMINAL BUILDING.

APPLICABLE CODES

MINIMUM STANDARD CODES :
2024 NORTH CAROLINA STATE BUILDING CODE (NCSBC)
2024 NORTH CAROLINA EXISTING BUILDING CODE
2024 INTERNATIONAL FIRE CODE (IFC)
2024 INTERNATIONAL PLUMBING CODE
2024 NORTH CAROLINA STATE MECHANICAL CODE (NCSBC-M)
2024 NATIONAL ELECTRIC CODE (NEC)
2024 INTERNATIONAL ENERGY CONSERVATION CODE
ACCESSIBILITY: 2018 NORTH CAROLINA BUILDING CODE - 2009 ANSI A117.1
https://www.ncosfm.gov/codes/codes-current-and-past

OCCUPANCY CLASSIFICATION (IBC)

GROUP A3/ASSEMBLY: WAITING AREAS
GROUP B/BUSINESS: OFFICES, WORK SPACE, CONFERENCE ROOMS: OCCUPANT LOAD OF LESS THAN 50 PERSONS
GROUP M/MERCANTILE: CONCESSION STORAGE (EXISTING TO BE RELOCATED)

BUILDING DATA

CONSTRUCTION TYPE: IIB
GROSS BUILDING SQUARE FOOTAGE
RAMP LEVEL: 31,798 SF EXISTING + 4,097 SF NEW + 4,893 SF NEW CONNECTOR = 40,788 SF
TICKETING LEVEL: 61,713 SF EXISTING + 922 SF NEW = 62,635 SF
ADMINISTRATION LEVEL: 5,270 SF EXISTING + 0 SF NEW = 5,270 SF
TOTAL NEW BUILDING SQUARE FOOTAGE: 9,912 SF
TOTAL GROSS BUILDING SQUARE FOOTAGE: 108,693 SF

TOTAL RENOVATION AT EXISTING TERMINAL (DOES NOT INCREASE GROSS BUILDING AREA)
RAMP LEVEL: 3,785 SF
TICKETING LEVEL: 2,412 SF
ADMINISTRATION LEVEL 0 SF

NUMBER OF FLOORS: 2 STORIES WITH MEZZANINE
HEIGHT OF BUILDING: 58'-0" OVERALL EXISTING
SPRINKLERED: YES

CONSTRUCTION CLASSIFICATION (IBC)

THE MAIN BUILDING IS CLASSIFIED AS A NONSEPARATED, MIXED USE FACILITY (508.3), WHICH REQUIRES WORST-CASE HEIGHT AND AREA AND FIRE PROTECTION LIMITATIONS TO BE APPLIED TO THE ENTIRE FACILITY. TABLE 503 ALLOWS UNLIMITED AREA FOR TYPE IB CONSTRUCTION FOR THE GROUP A AND B OCCUPANCIES. STORAGE AREA IS CONSIDERED ACCESSORY SPACE.

THE ACTUAL AREA PER STORY IS 62,635 SQ. FT.
TABLE 503 PERMITS 12 STORIES AND 180' HEIGHT FOR THE GROUP A, GROUP B AND MERCANTILE OCCUPANCIES.
THE ACTUAL HEIGHT IS 3 EXISTING STORIES AND 58'-0" EXISTING FT.

NOTE: THE ABOVE ALLOWANCES DO NOT INCLUDE INCREASES PERMITTED FOR SPRINKLER SYSTEMS

CODE ANALYSIS

FIRE-RATED CONSTRUCTION (IBC)

UNDER TYPE IIB CONSTRUCTION STRUCTURAL ELEMENTS REQUIRE THE FOLLOWING FIRE RATINGS (TABLE 601):

PRIMARY STRUCTURAL FRAME	0 HOURS
BEARING WALLS	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
ROOF CONSTRUCTION*	0 HOUR
ROOF SECONDARY FRAMING*	0 HOUR

* ROOF CONSTRUCTION AND SECONDARY FRAMING ONLY MAY BE OMITTED IF ALL ELEMENTS ARE LOCATED ENTIRELY ABOVE 20' AFF. TABLE 602 DOES NOT REQUIRE ANY EXTERIOR WALL RATINGS

FIRE-RATED SEPARATIONS (IBC)

THE FOLLOWING FIRE RATED SEPARATIONS ARE REQUIRED:

TYPE	RATING	OPENING PROTECTION
OCCUPANCY SEPARATION(508.3)	0 HOUR	N/A
SHAFTS	1 HOURS	45 MINUTES
FLOOR OPENING (712.1.9)	0 HOUR	N/A
EXIT ACCESS CORRIDORS	0 HOUR	N/A

OCCUPANT LOAD (IBC)

RAMP LEVEL - NEW:

USE AND OCCUPANCY CLASSIFICATION:	OCCUPANT LOAD FACTOR:	AREA:	OCCUPANTS:
BUSINESS	1 PER 150 (1/150)	665 SF	5
CONCOURSE	1 PER 100 (1/100)	4,891 SF	49
STORAGE/ MECHANICAL	1 PER 300 (1/300)	595 SF	2

TICKETING LEVEL - NEW

USE AND OCCUPANCY CLASSIFICATION:	OCCUPANT LOAD FACTOR:	AREA:	OCCUPANTS:
BUSINESS	1 PER 150 (1/150)	538 SF	4
CONCOURSE	1 PER 100 (1/100)	2,051 SF	20
STORAGE/ MECHANICAL	1 PER 300 (1/300)	0 SF	0

ADMINISTRATIVE LEVEL - EXISTING NO CHANGE

INCREASED BUILDING OCCUPANCY: 80 PERSONS

MEANS OF EGRESS (IBC)

MAXIMUM TRAVEL DISTANCE (TABLE 1017.2)	
GROUP A3/ ASSEMBLY, GROUP M/MERCANTILE -	250 FT
GROUP B/ BUSINESS -	300 FT
MAXIMUM DEAD-END CORRIDOR (1020.4)	
GROUP A -	20 FT
GROUP B, GROUP M -	50 FT
EGRESS STAIR WIDTH -	.3" PER OCCUPANT (.2" W/ SPRINKLERS AND .15" WITH VOICE EVAC.)
EGRESS WIDTH PER PERSON -	.2" PER OCCUPANT
MINIMUM CORRIDOR WIDTH -	44"

CODE ANALYSIS

PLUMBING FIXTURE COUNT (IPC)

*IPC TABLE 403.1 OCCUPANCY CLASSIFICATION AND DESCRIPTIONS
GROUP A3 - PASSENGER TERMINALS AND TRANSPORTATION FACILITIES
GROUP B - BUSINESSES AND OFFICES
GROUP M - MERCANTILE (EXISTING)

NEW ADDITION: RAMP LEVEL
WATER CLOSETS/ URINAL:

RAMP LEVEL FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS (1/2):	OCCUPANTS:	MALE/FEMALE:
GROUP A3	1 PER 500		49	25/25
GROUP B	1 PER 25 FOR FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50		7	4/4

TOTAL (REQUIRED) NEW: 2 MALE, 2 FEMALE
TOTAL (PROVIDED) : 4 MALE (EXISTING), 2 FEMALE (EXISTING)

LAVATORIES:

RAMP LEVEL FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS (1/2):	OCCUPANTS:	MALE/FEMALE:
GROUP A3	1 PER 750		49	25/25
GROUP B	1 PER 40 FOR FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80		7	4/4

TOTAL (REQUIRED) NEW: 2 MALE, 2 FEMALE
TOTAL (PROVIDED): 2 MALE, 2 FEMALE

NEW ADDITION: TICKETING LEVEL
WATER CLOSETS/ URINAL:

TICKETING FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS (1/2):	OCCUPANTS:	MALE/FEMALE:
GROUP A3	1 PER 500		20	10/10
GROUP B	1 PER 25 FOR FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50		4	2/2

TOTAL (REQUIRED) NEW: 2 MALE, 2 FEMALE
TOTAL (PROVIDED) : 6 MALE (EXISTING), 6 FEMALE (EXISTING), 2 UNISEX

LAVATORIES:

TICKETING FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS (1/2):	OCCUPANTS:	MALE/FEMALE:
GROUP A3	1 PER 750		20	10/10
GROUP B	1 PER 40 FOR FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80		4	2/2

TOTAL (REQUIRED) NEW: 1 MALE, 1 FEMALE
TOTAL (PROVIDED): 5 MALE (EXISTING), 4 FEMALE (EXISTING), 2 UNISEX

CODE ANALYSIS

PLUMBING FIXTURE COUNT (IPC) CONT.

DRINKING FOUNTAINS:

RAMP LEVEL FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS:	REQUIRED:
GROUP A3	1 PER 1000	49	1
GROUP B	1 PER 100	7	1

TOTAL (REQUIRED): 2
TOTAL (PROVIDED): 2

DRINKING FOUNTAINS:

TICKETING FLOOR:	LOAD FACTOR:	TOTAL OCCUPANTS:	REQUIRED:
GROUP A3	1 PER 1000	20	1
GROUP B	1 PER 100	4	1

TOTAL (REQUIRED): 2
TOTAL (PROVIDED): 2

SERVICE SINKS:

TICKETING FLOOR:	REQUIRED:	PROVIDED:
GROUP A3		
GROUP B	1 SERVICE SINK	1

ADMINISTRATIVE LEVEL - EXISTING NO CHANGE

16 0 16 32

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

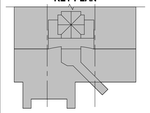
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North Carolina License Nos. 50073 *
F-0493 * C-28

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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NOT FOR CONSTRUCTION

SHEET TITLE:
OVERALL RAMP LEVEL LIFE SAFETY PLAN

SHEET ID:
G101

PROJECT STATUS:
100% BID SET

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LIFE SAFETY LEGEND

SYMBOL LEGEND

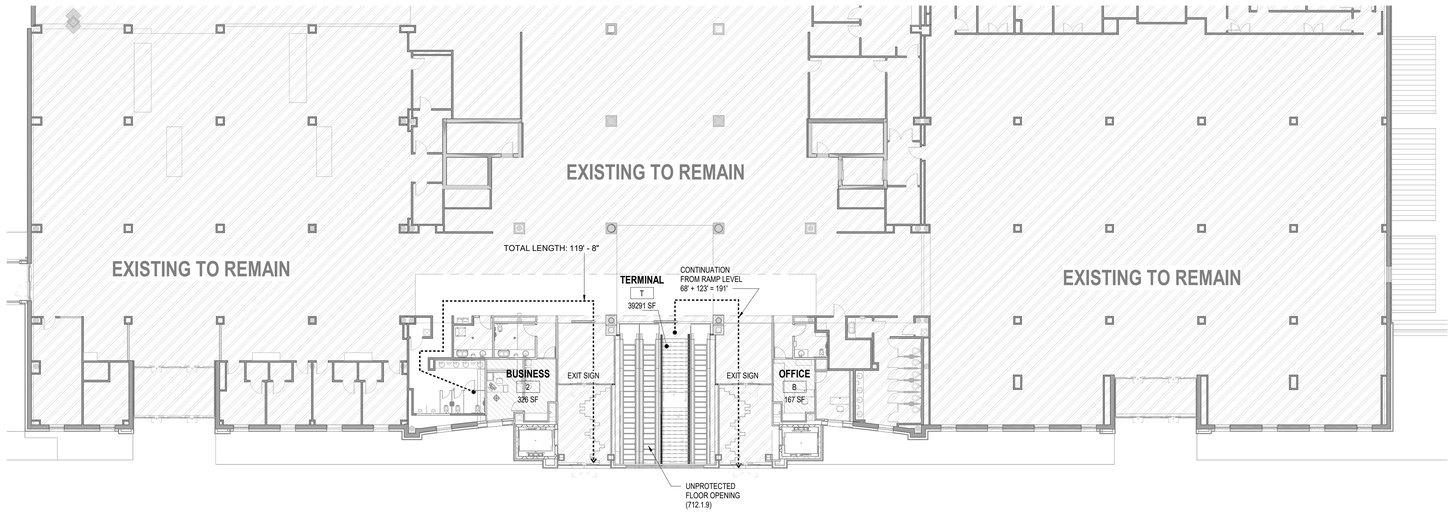
- ESCAPE ROUTE TRAVEL PATH
- FIRE EXTINGUISHER CABINET
- FE — FIRE EXTINGUISHER
- EXIT
- EXIT SIGN

OCCUPANCY LEGEND

- AIRPORT - TERMINAL
- BUSINESS

LIFE SAFETY NOTES

1. ORIGINAL OCCUPANCY LOAD OF 2,854 ON TICKET LEVEL. PROJECT ADDS OCCUPANCY LOAD OF 10 FOR A TOTAL OF 2,864 OCCUPANTS.



PN

N

A1 OVERALL TICKET LEVEL LIFE SAFETY PLAN

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

16 0 16 32

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

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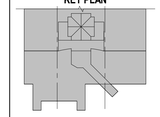
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KEY PLAN



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SHEET TITLE:
OVERALL TICKET LEVEL LIFE SAFETY PLAN

SHEET ID:
G102

PROJECT STATUS:
100% BID SET

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DESIGN CRITERIA:

DESIGN PER:
- *2024 NORTH CAROLINA BUILDING CODE*
- *2024 NORTH CAROLINA EXISTING BUILDING CODE*

1. DEAD LOADS:
   - SELFWEIGHT + ROOF ASSEMBLY
   - TUNNEL
     - COLLATERAL MEP _____ 10 PSF
     - OVERBURDEN _____ VARIES, SEE CIVIL
   - CANOPY COLLATERAL _____ 6 PSF
2. LIVE LOADS (PER ASCE 7-16):
   - SLAB ON GRADE _____ 125 PSF
   - TYPICAL FLOOR (ELEVATED LEVELS) _____ 100 PSF
   - MECHANICAL AND LIGHT STORAGE _____ 125 PSF (NOT REDUCIBLE)
   - STAIRS AND EGRESS _____ 100 PSF
   - ROOF _____ 20 PSF
   - SIDEWALK _____ 250 PSF (NOT REDUCIBLE)
   - TUNNEL TOP _____ HL-93 PER AASHTO
3. WIND LOADS (PER ASCE 7-16):
   - ULTIMATE DESIGN WIND SPEED, V_{ult} _____ 154 MPH
   - NOMINAL DESIGN WIND SPEED, V_{asd} _____ 120 MPH
   - RISK CATEGORY _____ III
   - WIND EXPOSURE CATEGORY _____ C
   - INTERNAL PRESSURE COEFFICIENT
     - ENCLOSED BUILDING _____ ± 0.18
     - CANOPY _____ ± 0.00
   - COMPONENTS AND CLADDING WIND PRESSURES _____ SEE S002
   - HURRICANE-PRONE REGION _____ YES, GLAZED OPENINGS SHALL BE PROTECTED AGAINST WIND-BORNE DEBRIS
4. EARTHQUAKE DESIGN DATA (PER ASCE 7-16):
   - SEISMIC IMPORTANCE FACTOR _____ I_E = 1.25
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS _____ S_S = 0.153
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS _____ S_1 = 0.067
   - SPECTRAL RESPONSE COEFFICIENT _____ S_{DS} = 0.163
   - SPECTRAL RESPONSE COEFFICIENT _____ S_{D1} = 0.108
   - SITE CLASS _____ D
   - SEISMIC DESIGN CATEGORY _____ B
   - BASIC SEISMIC FORCE-RESISTING SYSTEMS:
     - STEEL FRAMING _____ STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
     - CONCRETE WALLS _____ ORDINARY REINFORCED CONCRETE SHEAR WALLS
     - MASONRY WALLS (NONPARTICIPATING) _____ ORDINARY REINFORCED MASONRY SHEAR WALLS
   - RESPONSE MODIFICATION COEFFICIENT:
     - STEEL FRAMING _____ R = 3
     - CONCRETE WALLS _____ R = 4
     - MASONRY WALLS (NONPARTICIPATING) _____ R = 2
   - SEISMIC RESPONSE COEFFICIENT: _____ C_S = 0.068
   - DESIGN BASE SHEAR:
     - NEW BUILDING ADDITION W/ TUNNEL _____ V = 102 KIPS
     - NEW BUILDING ADDITION W/O TUNNEL _____ V = 22 KIPS
     - FULLY CANOPY _____ V = 33 KIPS
     - PARTIAL CANOPY _____ V = 31 KIPS
   - ANALYSIS DESIGN PROCEDURE _____ EQUIVALENT LATERAL FORCE PROCEDURE
5. SNOW LOADS (PER ASCE 7-16):
   - GROUND SNOW LOAD _____ P_g = 10 PSF
   - FLAT ROOF SNOW LOAD
     - BUILDING _____ P_f = 8.47 PSF
     - CANOPY _____ P_f = 9.24 PSF
   - SNOW EXPOSURE FACTOR _____ C_e = 1.0
   - SNOW LOAD IMPORTANCE FACTOR _____ I_s = 1.1
   - THERMAL FACTOR
     - BUILDING _____ C_t = 1.1
     - CANOPY _____ C_t = 1.2
   - DRIFT SURCHARGE LOADS _____ SEE S002
   - WIDTH OF SNOW DRIFT _____ SEE S002
6. RAIN INTENSITY (PER NOAA):
   - PRECIPITATION INTENSITY (15-MINUTE) _____ i_{15} = 9.19 IN/HR
   - PRECIPITATION INTENSITY (60-MINUTE) _____ i_{60} = 5.02 IN/HR
7. FOUNDATION SYSTEM:
   - SHALLOW FOUNDATION SYSTEM
     - ALLOWABLE BEARING PRESSURE _____ 2,000 PSF
   - SLAB ON GRADE SUBGRADE MODULUS _____ k_1 = 175 PCI
   - DEEP FOUNDATION SYSTEM _____ AUGER CAST PILES (ACP)

MATERIAL PROPERTIES:

1. CONCRETE, NORMAL WEIGHT, UNO (PER ACI 318-19):
   - SLAB ON DECK (INTERIOR) _____ f' c = 4,500 PSI (UON)
   - SLAB ON DECK (EXPOSED) _____ f' c = 5,000 PSI
   - BELOW GRADE CONCRETE _____ f' c = 5,000 PSI (UON)
   - CONCRETE COLUMNS _____ f' c = 6,000 PSI (AS NOTED)
   - ALL OTHER CONCRETE _____ f' c = 4,500 PSI (UON)
   - PRECAST CONCRETE _____ f' c = 5,000 PSI (MIN)
2. CONCRETE REINFORCING STEEL
   - REINFORCEMENT BARS _____ ASTM A615 GRADE 60
   - WELDABLE REINFORCEMENT BARS _____ ASTM A706 GRADE 60
3. WELDED WIRE FABRIC _____ ASTM A1064
4. STRUCTURAL STEEL (PER AISC 360-16):
   - WIDE FLANGE SHAPES _____ ASTM A992
   - HSS RECTANGULAR _____ ASTM A500, GR C, F_y = 50 KSI
   - HSS ROUND _____ ASTM A500, GR C, F_y = 46 KSI
   - STEEL PIPES _____ ASTM A53, GRADE B, TYPE S
   - CHANNELS _____ ASTM A36
   - PLATES _____ ASTM A36, UON
   - ANGLES _____ ASTM A36
   - BOLTS _____ ASTM A325 (3/4"Ø UON)
   - ANCHOR BOLTS _____ ASTM F1554 (GRADE 36 UON)
   - ALL OTHER STEEL _____ ASTM A36
5. WELD ELECTRODE:
   - WELDS (PER AWS D1.1) _____ E70XX
   - REINFORCEMENT BAR WELDS (PER AWS D1.4) _____ E80XX
6. HEADED SHEAR CONNECTORS _____ 3/4" DIA. HSA IN CONFORMANCE WITH AWS D1.1

GENERAL NOTES

1. THE STRUCTURAL NOTES MUST GOVERN IN MATTERS COVERED ON THE STRUCTURAL DRAWINGS. SEE PROJECT SPECIFICATION AND OTHER DRAWINGS FOR FURTHER REQUIREMENTS. TOTAL PROJECT DEFINITION WILL BE PROVIDED BY COMBINING PRINCIPAL SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWING PACKAGES.
2. THE DRAWINGS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT REPRESENT THE METHOD OF CONSTRUCTION.
3. THE CONTRACTOR MUST TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND ANY PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHOULD INCLUDE, BUT NOT BE LIMITED TO TEMPORARY BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS, WIND LOADS, ETC.
4. FOR TYPICAL DETAILS SHOWN BUT NOT BE REFERRED TO EXCEPT HEREIN, CONFORM TO ALL OF THE REQUIREMENTS OF THESE DETAILS TO THE SAME EXTENT AS IF REFERRED TO BY DETAIL NUMBER.
5. IF FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL THE ENGINEER MUST BE NOTIFIED.
6. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS OF EXISTING SITE THAT ARE AFFECTED BY NEW WORK BEFORE PROCEEDING WITH FABRICATION AND CONSTRUCTION.
7. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT MUST BE VERIFIED WITH EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
8. EXISTING CONDITIONS ARE IN ACCORDANCE WITH THE NEW HANOVER COUNTY AIRPORT - NEW TERMINAL COMPLEX RECORD DRAWINGS DATED NOVEMBER 10, 1986.

DEFERRED SUBMITTALS:

1. DEFERRED SUBMITTALS
   - A. COLD-FORMED METAL FRAMING (SPECIFICATION 054000)
   - B. STRUCTURAL CAST STEEL COMPONENTS (SPECIFICATION 051210)
   - C. AUGER CAST GROUT PILES (SPECIFICATION 316316)
   - D. STEEL CONNECTIONS (SPECIFICATION 051200)
   - E. STAIR STEEL FRAMING (SPECIFICATION 055113)
   - F. TEMPORARY SHORING
   - G. PRECAST STRUCTURAL CONCRETE (SPECIFICATION 034100)
   - H. EXCAVATION SUPPORT (SPECIFICATION 315000)
   - I. HELICAL PILE AND ANCHOR (SPECIFICATION 316613)
   - J. SEGMENTAL RETAINING WALL (SPECIFICATION 323223)
2. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTALS MUST BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO MUST REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.
   - A. SUBMITTAL DOCUMENTS MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND PLANS.
   - B. SUBMITTAL DOCUMENTS MUST INCLUDE PLAN LAYOUTS, SECTIONS, DETAILS, CALCULATIONS, PRODUCT DATA, CERTIFICATES AND OTHER DATA. DRAWINGS AND CALCULATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN NORTH CAROLINA.
3. THE DEFERRED SUBMITTAL ITEMS MUST NOT BE FABRICATED OR INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL MUST CONFORM TO THE CURRENT EDITION OF THE AISC STEEL CONSTRUCTION MANUAL (FIFTEENTH EDITION) INCLUDING AISC 360-16 (SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS) AND AISC 303 (CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES).
2. QUALITY CONTROL (QC) MUST BE PERFORMED BY THE CONTRACTOR (ERECTOR/FABRICATOR) IN ACCORDANCE WITH THE PROVISIONS OF AISC 360-16 CHAPTER N AND ALL APPLICABLE REFERENCED STANDARDS. ALL WELDING INSPECTIONS PERFORMED BY THE CONTRACTOR MUST BE PERFORMED BY A CERTIFIED WELDING INSPECTOR (AWS CWI QC1). CONTRACTOR MUST KEEP CURRENT AND HAVE AVAILABLE FOR REVIEW ALL DOCUMENTATION LISTED IN AISC CHAPTER N, SECTION N3 AS WELL AS ALL DOCUMENTATION REQUIRED FOR INDIVIDUAL INSPECTION TASKS OUTLINED IN AISC 360 CHAPTER N.
3. ALL WELDS MUST BE PERFORMED IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION). ALL WELDS MUST BE 3/16" MINIMUM FILLET WELDS UON OR AS REQUIRED BY AISC.
4. FABRICATOR MUST SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE START OF FABRICATION. ALL STRUCTURAL STEEL MUST BE INSTALLED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
5. ALL SHOP CONNECTIONS MUST BE WELDED. ALL FIELD WELDING MUST BE SHOWN ON THE SHOP DRAWINGS.
6. BOLTS AND BOLTED CONNECTIONS MUST CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS, AS APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC).
7. PRIOR TO PERFORMING ANY PRETENSIONED BOLT INSTALLATION INCLUDING SLIP-CRITICAL INSTALLATIONS, PRE-INSTALLATION VERIFICATION TESTING MUST BE PERFORMED IN ACCORDANCE WITH AISC 360 CHAPTER N AND THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
8. BOLTED CONNECTION DENOTED AS "SC" OR "SLIP CRITICAL" ON PLAN OR IN SECTIONS/DETAILS MUST BE INSTALLED TO A SLIP CRITICAL CONDITION WITH A CLASS-A FAYING SURFACE UON. FAYING SURFACE MUST BE PREPARED IN ACCORDANCE WITH THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
9. ALL BOLTS MUST BE ASTM A325 INSTALLED TO SNUG-TIGHT IN BEARING TYPE CONDITION WITH THREADS ALLOWED ACROSS THE SHEAR PLANE UON.
10. ACCEPTABLE METHODS OF PRETENSIONING WILL EMPLOY THE USE OF DIRECT TENSION INDICATORS (DTI), TWIST-OFF BOLTS OR TURN OF NUT WITH MATCH MARKING. CALIBRATED WRENCH AND TURN-OF-NUT WITHOUT MATCH MARKING ARE NOT ALLOWED.
11. EXCEPT WHERE SPECIFICALLY NOTED, CONNECTION DETAILS ON THE DRAWINGS ARE CONSIDERED COMPLETELY DESIGNED AND MUST NOT BE MODIFIED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ENGINEER.
12. WHERE CONNECTION DESIGN IS NOT PROVIDED IN THE DRAWINGS AND SHEAR FORCES ARE GIVEN ON THE DRAWINGS. PLATE SIZES, ANGLE SIZES, NUMBER AND SIZE OF BOLTS AND WELDS FOR CONNECTIONS MUST BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF PART 10 OF THE FIFTEENTH EDITION OF THE AISC MANUAL FOR THE SHEAR FORCES SHOWN ON THE DRAWINGS.
13. NO SHOP OR FIELD SPLICES WILL BE ALLOWED IN BEAMS, GIRDERS OR COLUMNS EXCEPT WHERE SHOWN ON THE STRUCTURAL DRAWINGS.
14. NO ADDITIONAL HOLES FOR BOLTING OF TEMPORARY BRACING, ETC. DURING ERECTION WILL BE ALLOWED IN ANY STRUCTURAL STEEL MEMBER. WHERE TEMPORARY BOLTED CONNECTIONS ARE REQUIRED FOR STABILITY OF THE STEEL FRAME DURING ERECTION, USE NELSON STUD BOLTS IN LIEU OF PUNCHED OR DRILLED HOLES.
15. ALL STRUCTURAL STEEL MEMBERS, ANGLES, BARS, ANCHORS, ANCHOR BOLTS, ETC. EXPOSED TO WEATHER MUST BE HOT DIPPED GALVANIZED AFTER FABRICATION.
16. ALL TUBE STEEL MEMBERS TO REMAIN WITH AN OPEN END AFTER INSTALLATION SHALL BE CAPPED WITH A PLATE OF EQUAL THICKNESS (MIN) OF THE TUBE WALL AND FULLY WELDED AND GROUND SMOOTH.
17. VISIBLE STRUCTURAL STEEL AND COMPONENTS LOCATED IN PUBLIC AREAS SHALL BE CLASSIFIED AS ARCHITECTURAL EXPOSED STRUCTURAL STEEL (AESS) AS DEFINED BY CHAPTER 10 OF THE 2016 AISC CODE OF STANDARD PRACTICE (COSP).
   - A. AESS CATEGORIES (SEE DRAWINGS FOR LOCATIONS, INDICATED AS AESS#):
     - AESS 1 _____ ALL FEATURE ELEMENTS
   - B. SPECIFIC SURFACE TREATMENT REQUIREMENTS FOR EACH CATEGORY SHALL BE PER THE AESS CATEGORY MATRIX, TABLE 10.1 OF THE 2016 AISC COSP.
   - C. FOR AESS 1 COMPONENTS INDICATED HEREIN, THE FIRST ITEM COMPLETED DURING CONSTRUCTION SHALL BE USED TO DETERMINE ACCEPTABILITY. DEFICIENCIES SHALL BE CORRECTED AT NO COST TO THE OWNER PRIOR TO CONTINUING CONSTRUCTION.
18. ANGLE FRAME MEMBERS AROUND TRENCHES, PITS, OPENINGS, ETC. MUST BE MITERED, WELDED AND GROUND SMOOTH.
19. STRUCTURAL GROUT FOR STEEL COLUMNS MUST BE A NON-SHRINKAGE NON-EXPANSIVE, NON-METALLIC, GROUT WITH A 28-DAY COMPRESSIVE STRENGTH OF 8,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109.
20. STEEL ERECTOR MUST HOLD CURRENT CERTIFICATION AS AISC CERTIFIED ERECTOR (CSEA, CSE, OR ACSE).
21. STEEL FABRICATOR MUST HOLD CURRENT CERTIFICATION AS AISC CERTIFIED FABRICATOR (BU: CERTIFIED BUILDING FABRICATOR).

CONCRETE AND REINFORCING STEEL:

1. ALL CONCRETE MUST BE IN COMPLIANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318-19.
2. UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING SHALL BE PER CONCRETE COVER TABLE 1/S011.
3. ALL REINFORCING MUST BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH THE CURRENT EDITIONS OF THE CRSI MANUAL OF STANDARD PRACTICE DURING THE PLACING OF THE CONCRETE.
4. PROVIDE CORNER BARS AT ALL BEAM AND WALL INTERSECTIONS. CORNER BARS MUST BE THE SAME SIZE AS THE LARGER INTERSECTING BARS.
5. ALL GRADE BEAM AND WALL STEEL MUST BE CONTINUOUS WHERE POSSIBLE. TOP BARS MUST BE SPLICED AT THE CENTER OF THE SPAN, BOTTOM BARS OVER SUPPORTS, AND OTHER HORIZONTAL AND TEMPERATURE BARS AS REQUIRED.
6. SPLICES IN REINFORCING, WHERE PERMITTED, MUST BE AS FOLLOWS UNLESS OTHERWISE NOTED.
   - REINFORCING STEEL _____ SEE DETAIL 8/S011
   - WELDED WIRE FABRIC _____ WIRE SPACING PLUS 2"
7. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL PLANS FOR CAST-IN-PLACE BOLTS, INSERTS, ANCHORS, ETC AND FOR ALL SLAB LEAVE-OUTS, SLOPES, DEPRESSIONS, SLEEVES, ETC.
8. WELDED REINFORCEMENTS MUST CONFORM TO AWS D1.4/D1.4M.
9. ALL HOOKS IN REINFORCING BARS MUST BE AN ACI STANDARD HOOK, UNLESS OTHERWISE NOTED.
10. ALL EXPOSED EDGES OF CONCRETE MUST BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.
11. PROVIDE 1/2" PREMOLDED EXPANSION JOINT MATERIAL WHERE SLAB ON GRADE IS POURED AGAINST GRADE BEAMS OR WALLS, UNLESS OTHERWISE SHOWN OR NOTED.
12. ALL CONCRETE MUST BE DESIGNED BY AN APPROVED LABORATORY, AND THE DESIGN MIX MUST BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW, AND APPROVAL OBTAINED PRIOR TO USE.
13. NO PIPES OR DUCTS MUST BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF SLEEVES, MOULDS, FLOOR HINGES, ETC TO BE CAST INTO THE CONCRETE.
14. PROVIDE SUPPLEMENTAL REINFORCEMENT AT ALL SLAB-ON-GRADE REENTRANT CORNERS, SEE DETAIL 7/S011.

METAL ROOF DECK (TYPE: R-1):

1. METAL ROOF DECK MUST BE:
   - A. 1.5" TYPE B 18 GAUGE (Fy = 50 KSI) BY VULCRAFT OR APPROVED EQUAL.
2. DECK MUST BE INSTALLED AND ATTACHED TO THE SUPPORTING STEEL AS RECOMMENDED BY DECK MANUFACTURER AND AS FOLLOWS:
   - A. 1.5" TYPE B 18 GAUGE:
     - a. DECK MUST BE CONTINUOUS OVER A MINIMUM OF THREE SPANS.
     - b. ATTACHMENT:
       - SUPPORTS: 36/9 FASTENER LAYOUT USING HILTI X-ENP-19
       - SIDE LAPS: (4) HILTI S-SLC 02 M HWH SIDELAP CONNECTOR EVENLY SPACED PER SPAN
     - c. AT ALL DECK PERIMETERS SUCH AS ROOF EDGES AND AROUND DECK OPENINGS WHERE SUPPORT RUNS PARALLEL TO FLUTE, ATTACH FLUTE AT 9" OC MAXIMUM WITH HILTI S-SLC 02 M HWH SIDELAP CONNECTOR.
     - d. CONNECT ALTERNATE FLUTES AT INTERMEDIATE DECK SUPPORT POINTS (UON).
3. UNLESS OTHERWISE NOTED, SEE TYPICAL DETAIL 2/S022 FOR EDGE OF ROOF DECK CONDITIONS.
4. ROOF DECK MUST BE GALVANIZED (G90).

METAL FLOOR DECK:

1. CONCRETE OVER METAL DECK TYPE SCHEDULE:
   - A. FLOOR SLAB OVERALL NOMINAL THICKNESS:
     - a. F-1 _____ 5-1/2" FROM TOP OF CONCRETE TO BOTTOM OF METAL DECK
     - b. F-2 _____ 6" FROM TOP OF CONCRETE TO BOTTOM OF METAL DECK
     - c. F-3 _____ 12" FROM TOP OF CONCRETE TO BOTTOM OF METAL DECK
   - B. FLOOR DECK (OR APPROVED EQUAL):
     - a. F-1 _____ 2" TYPE VLI 20 GAGE (Fy = 50 KSI, MIN) BY VULCRAFT COMPOSITE METAL DECK
     - b. F-2 _____ 2" TYPE VLI 20 GAGE (Fy = 50 KSI, MIN) BY VULCRAFT COMPOSITE METAL DECK
     - c. F-3 _____ 2" TYPE C 20 GAGE (Fy = 50 KSI, MIN) BY VULCRAFT METAL FORM DECK
   - C. FLOOR SLAB REINFORCEMENT:
     - a. F-1 _____ WWF 6X6-W2.9XW2.9, MID-HEIGHT OF CONCRETE ABOVE
     - b. F-2 _____ #3 BARS @ 18" O.C. MAX, EA. WAY, MID-HEIGHT OF CONCRETE ABOVE
     - c. F-3 _____ #6 BARS @ 8" O.C. MAX, EA. WAY, TOP & BOTTOM EXTERIOR BARS SHALL BE PARALLEL WITH DECK SPAN DIRECTION
   - D. CONCRETE TYPE:
     - a. F-1 _____ LIGHT WEIGHT (115 PCF)
     - b. F-2 _____ NORMAL WEIGHT (EXPOSED)
     - c. F-3 _____ NORMAL WEIGHT
2. DECK MUST BE WELDED TO SUPPORTING STEEL PER MANUFACTURER'S RECOMMENDATIONS AND AS FOLLOWS:
   - A. DECK MUST BE CONTINUOUS OVER THREE OR MORE SPANS EXCEPT WHERE SINGLE SPANS ARE REQUIRED BY FRAMING LAYOUT.
   - B. METAL FLOOR DECK MUST BE ATTACHED TO SUPPORTING STRUCTURE IN A 36/4 FASTENER LAYOUT USING 5/8" PUDDLE WELDS.
   - C. SIDELAP FASTENERS MUST BE (3) WELDED EVENLY SPACED (UON).
   - D. AT ALL DECK PERIMETERS SUCH AS FLOOR EDGES AND AROUND DECK OPENINGS WHERE SUPPORT RUNS PARALLEL TO FLUTE, WELD FLUTE AT 8" OC MAX.
   - E. AT ALL DECK PERIMETERS SUCH AS FLOOR EDGES AND AROUND DECK OPENINGS WHERE SUPPORT RUNS PERPENDICULAR TO FLUTE, EACH FLUTE WITH 5/8" PUDDLE WELDS.
   - F. CONNECT ALTERNATE FLUTES AT INTERMEDIATE DECK SUPPORT POINTS.
3. PLACE CONCRETE EVENLY OVER THE AREA TO BE COVERED SO THAT EXCESSIVE PILING UP OF CONCRETE DOES NOT OVERSTRESS THE STEEL DECK.
4. UNLESS OTHERWISE NOTED, SEE TYPICAL DETAIL 1/S022 FOR EDGE OF FLOOR SLAB CONDITIONS.
5. FLOOR DECK MUST BE GALVANIZED (G90).

PRECAST CONCRETE NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE TYPE DESIGN OF THE PRECAST STRUCTURE. PRECAST CONCRETE MINIMUM DESIGN STRENGTH SHALL BE AS NOTED. AT PRECASTER'S OPTION, HIGHER STRENGTH CONCRETE MAY BE USED.
2. PRECAST CONCRETE SHALL COMPLY WITH PCI MANUAL FOR QUALITY CONTROL FOR PLANTS AND PRODUCTION OF STRUCTURAL PRECAST CONCRETE PRODUCTS (MNL-116) LATEST EDITION AND ACI-318-19.
3. PRECAST CONCRETE MEMBERS STRUCTURAL DESIGN SHALL BE IN COMPLIANCE WITH PCI DESIGN FOR FIRE RESISTANCE OF PRECAST CONCRETE (MNL-124) LATEST EDITION, THE ACI-318-19 AND LOCAL BUILDING CODE (REFERENCE G101).
4. THE DELEGATED ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE PRECAST CONCRETE MEMBERS SHALL ALSO BE RESPONSIBLE FOR THE PREPARATION OF THE SHOP DRAWINGS, SHORING AND ERECTION DRAWINGS, AND FOR THE MANUFACTURING OF THESE STRUCTURAL MEMBERS.
   - A. DELEGATED ENGINEER SHALL VERIFY THE ERECTION OF THE STRUCTURE IS INSTALLED AND ERECTED IN ACCORDANCE WITH THEIR DESIGN INTENT.
5. PRECAST CONCRETE MEMBERS SHALL BE CAMBERED AS REQUIRED TO MINIMIZE DEFLECTIONS DUE TO PERMANENT SERVICE LOAD CONDITIONS.
6. PRECAST CONCRETE MOMENT FRAMES AND SHEAR WALLS SHALL REMAIN AS SHOWN ON PLAN. IF DELEGATED ENGINEER'S ANALYSIS DETERMINES MODIFICATION TO THE LATERAL RESISTING COMPONENTS IS REQUIRED, NOTIFY EOR FOR REVIEW AND APPROVAL.
7. ALL PENETRATIONS SHALL BE SHOWN ON THE SHOP DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATION OF SLEEVES OR OPENINGS REQUIRED IN PRECAST CONCRETE MEMBERS. ADDITIONAL PENETRATIONS ARE NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE DELEGATED ENGINEER AND EOR.
8. PROVIDE OPENING REINFORCEMENT IN ACCORDANCE WITH ACI-318-19.
9. ALL STEEL EMBEDS, INSERTS, AND COIL RODS SHALL BE GALVANIZED.

MASONRY:

1. ALL MASONRY WORK MUST CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402/ACI 530/ASCE 5) AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 602/ACI 530.1/ASCE 6).
2. CONCRETE MASONRY UNITS
   - NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY _____ f' m = 2,000 PSI
   - NET AREA COMPRESSIVE STRENGTH OF CMU (ASTM C90) _____ f' cmu = 2,000 PSI
   - MORTAR PER ASTM C270 _____ TYPE M OR S
   - GROUT PER ASTM C476 _____ f' g = 3,000 PSI
   - GROUTED UNIT DENSITY _____ λ_{UW} = 125 PCF (MAX)
3. MORTAR MUST CONFORM TO ASTM C270 TYPE S TYPICAL WITH TYPE M USED BELOW GRADE (UON).
4. GROUT SOLID ALL CELLS WITH REINFORCING OR EMBEDDED BOLTS.
5. REINFORCING STEEL MUST CONFORM TO ASTM A615, GRADE 60. SEE SCHEDULE FOR LAP SPLICE LENGTHS.
6. METAL ANCHORS AND TIES MUST BE OF CORROSION RESISTANT METAL HOT DIPPED GALVANIZED.
7. JOINT REINFORCING MUST BE ASTM A153, CLASS B, HOT-DIP GALVANIZED LADDER TYPE WITH 9-GAGE (W1.7) DEFORMED LONGITUDINAL WIRES AND SMOOTH CROSS WIRES CONFORMING TO ASTM A951. SPACE AT 16" O.C. VERTICAL. EMBED LONGITUDINAL WIRES IN MORTAR WITH A MINIMUM COVER OF 5/8" WHEN EXPOSED TO WEATHER OR EARTH AND 1/2" WHEN NOT EXPOSED TO WEATHER OR EARTH.
8. CONCRETE MASONRY BOND BEAMS MUST BE VERTICALLY SPACED AT 8'-0" ON CENTER MAXIMUM AND MUST BE PROVIDED AT ALL FLOOR LINES (INCLUDING INTERMEDIATE LANDINGS), ROOF LINES, TOP OF WALLS, TOP OF PARAPETS, TOP AND BOTTOM EDGE OF OPENINGS (EXTENDING 2'-0" PAST OPENING IN E-W DIRECTION). BOND BEAMS MUST BE CONTINUOUS UON. PROVIDE (2) #5 BARS IN 8" BOND BEAMS AND PROVIDE (2) #6 BARS IN 12" BOND BEAMS.
9. CONTINUE BOND BEAM REINFORCING THROUGH CONSTRUCTION JOINTS, CONTROL JOINTS AND AROUND CORNERS UNLESS NOTED OTHERWISE.
10. UNLESS OTHERWISE NOTED, ALL CMU WALLS MUST BE VERTICALLY REINFORCED AT EACH CORNER, CELLS ADJACENT TO EACH CORNER, AND EACH SIDE OF ALL OPENINGS AND RECESSES.
    - A. MASONRY WALL - 8" _____ #5 BARS @ 24" O.C. MAX, CENTERED, FULLY GROUTED, UNO
11. PROVIDE TEMPORARY BRACING FOR MASONRY WALLS UNTIL THEY ARE CONSTRUCTED TO THEIR FINAL DESIGN CONDITION.
12. PROVIDE MASONRY CONTROL JOINTS AT 25'-0" O.C. MAX, SEE SPECS FOR JOINT INFORMATION.
13. CONCRETE MASONRY MUST BE INSTALLED IN RUNNING BOND PATTERN WITH A FULL MORTAR BED.

EARTHWORK NOTES:

SITE PREPARATION

1. COMPLETELY REMOVE ANY EXISTING STRUCTURES AND SURFACE PAVEMENT INCLUDING UNDERGROUND UTILITIES AND OLD FOUNDATIONS WHERE THEY OCCUR WITHIN THE FOOTPRINT OF THE PROPOSED NEW STRUCTURES.
   - A. FOLLOWING DEMOLITION OF EXISTING STRUCTURES, REMOVE OR PLUG EXISTING UTILITIES THAT ARE TO BE PERMANENTLY ABANDONED.
   - B. AREAS EXCAVATED TO REMOVE BURIED STRUCTURES SHALL BE BACKFILLED AND COMPACTED ACCORDINGLY
2. CLEARING AND STRIPPING MUST CONSIST OF REMOVING TOPSOIL, VEGETATION, DEMOLITION DEBRIS, AND OTHER DELETERIOUS MATERIAL IN THEIR ENTIRETY FROM THE PROPOSED FOUNDATION FOOTPRINT.
3. SITE DRAINAGE SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION ACTIVITIES AND MAINTAINED DURING CONSTRUCTION ACTIVITIES.
4. THE EXPOSED SOIL SURFACE SHALL BE THOROUGHLY DENSIFIED IN PLACE BY MAKING SEVERAL PASSES WITH A HEAVY VIBRATORY ROLLER PRIOR TO PLACEMENT OF NEW FILL OR BEGINNING THE NEXT STAGE OF CONSTRUCTION:
   - A. MOISTURE CONDITIONING OF THE SUBGRADE BY THE ADDITION OF WATER OR DRYING SOILS MAY BE REQUIRED PRIOR TO DENSIFICATION.
   - B. DO NOT OPERATE HEAVY VIBRATORY ROLLERS WITHIN 10-FEET LATERALLY OF EXISTING STRUCTURES. USE SMALLER EQUIPMENT OR ROLLERS ON STATIC MODE IN THOSE AREAS.
   - C. GEOTECHNICAL ENGINEER SHALL OBSERVE
5. FILL SHALL NOT BE PLACED IN A FROZEN CONDITION OR UPON A FROZEN SUBGRADE. FROZEN MATERIALS MUST NOT BE USED AS ENGINEERED FILL AND NO FILL, FOOTINGS OR SLAB MUST BE PLACED ON SOILS THAT ARE FROZEN OR CONTAIN FROZEN MATERIAL.

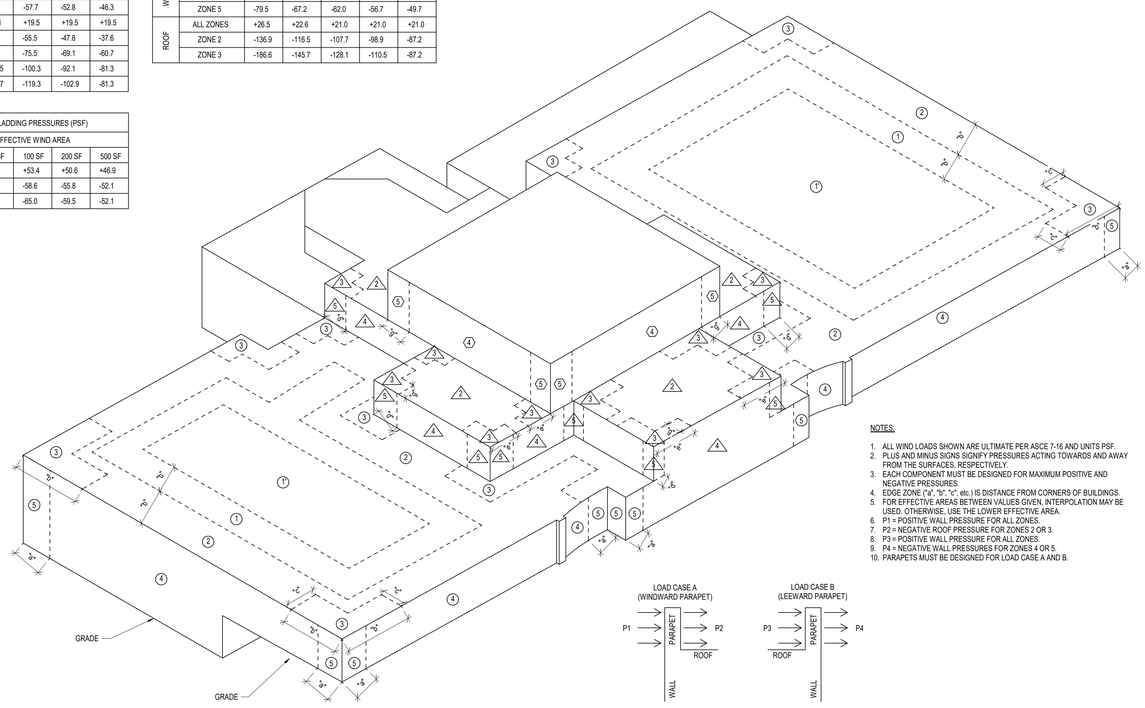
STRUCTURAL FILL PLACEMENT AND COMPACTION

1. STRUCTURAL FILL SHALL BE COMPRISED OF SOILS FREE OF EXCESSIVE ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS. PRIOR TO PLACING FILL, EACH PROPOSED FILL MATERIAL SHALL BE SAMPLED AND TESTED TO MEASURE ITS MAXIMUM DRY DENSITY, OPTIMUM MOISTURE CONTENT, NATURAL MOISTURE CONTENT, AND SUITABILITY FOR USE AS A STRUCTURAL FILL MATERIAL. STRUCTURAL FILL MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   - A. PLASTICITY INDEX OF 6 PERCENT OR LESS (ASTM D4318)
   - B. SILT/CLAY FINES CONTENT NOT GREATER THAN 25 PERCENT BY WEIGHT (ASTM D1140)
   - C. MOISTURE CONTENT WITHIN ±3 PERCENT OF THE STANDARD PROCTOR (ASTM D698) OPTIMUM MOISTURE CONTENT FOR COMPACTION (ASTM D2216)
2. STRUCTURAL FILL SHALL BE COMPACTED THROUGHOUT TO AT LEAST 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DENSITY (ASTM D698)
   - A. LOOSE LIFTS OF FILL SHALL BE NO MORE THAN 12 INCHES THICK PRIOR TO COMPACTION
     - a. LIMIT TO 4 INCHES THICK IF USING SMALL

LOW ROOF COMPONENTS AND CLADDING PRESSURES (PSF)						
ZONE a = 13'-2" b = 19'-9" c = 6'-7"		EFFECTIVE WIND AREA				
		10 SF	50 SF	100 SF	200 SF	500 SF
WALLS	ALL ZONES	+55.5	+49.8	+47.4	+44.9	+41.7
	ZONE 4	-60.2	-54.5	-52.0	-49.5	-46.3
	ZONE 5	-74.1	-62.6	-57.7	-52.8	-46.3
ROOF	ALL ZONES	+24.7	+21.1	+19.5	+19.5	+19.5
	ZONE 1'	-55.5	-55.5	-55.5	-47.8	-37.6
	ZONE 1	-96.7	-81.9	-75.5	-69.1	-60.7
	ZONE 2	-127.5	-108.5	-100.3	-92.1	-81.3
	ZONE 3	-173.8	-135.7	-119.3	-102.9	-81.3

MID ROOF COMPONENTS AND CLADDING PRESSURES (PSF)						
ZONE d = 3'-8" e = 18'-5" f = 6'-2"		EFFECTIVE WIND AREA				
		10 SF	50 SF	100 SF	200 SF	500 SF
WALLS	ALL ZONES	+59.6	+53.5	+50.9	+48.2	+44.7
	ZONE 4	-64.6	-58.5	-55.8	-53.2	-49.7
	ZONE 5	-79.5	-67.2	-62.0	-56.7	-49.7
ROOF	ALL ZONES	+26.5	+22.6	+21.0	+21.0	+21.0
	ZONE 2	-136.9	-116.5	-107.7	-98.9	-87.2
	ZONE 3	-186.6	-145.7	-128.1	-110.5	-87.2

HIGH ROOF COMPONENTS AND CLADDING PRESSURES (PSF)						
ZONE g = 7'-10"		EFFECTIVE WIND AREA				
		10 SF	50 SF	100 SF	200 SF	500 SF
WALLS	ALL ZONES	+62.6	+56.1	+53.4	+50.6	+46.9
	ZONE 4	-57.8	-51.4	-58.6	-55.8	-52.1
	ZONE 5	-83.4	-70.6	-65.0	-59.5	-52.1



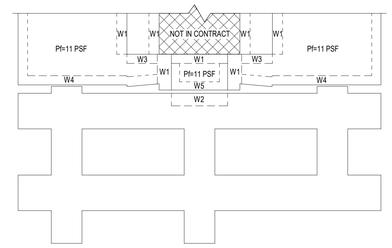
NOTES:

1. ALL WIND LOADS SHOWN ARE ULTIMATE PER ASCE 7-16 AND UNITS PSF.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE PRESSURES.
4. EDGE ZONE ("a", "b", "c", etc.) IS DISTANCE FROM CORNERS OF BUILDINGS.
5. FOR EFFECTIVE AREAS BETWEEN VALUES GIVEN, INTERPOLATION MAY BE USED. OTHERWISE, USE THE LOWER EFFECTIVE AREA.
6. P1 = POSITIVE WALL PRESSURE FOR ALL ZONES.
7. P2 = NEGATIVE ROOF PRESSURE FOR ZONES 2 OR 3.
8. P3 = POSITIVE WALL PRESSURE FOR ALL ZONES.
9. P4 = NEGATIVE WALL PRESSURES FOR ZONES 4 OR 5.
10. PARAPETS MUST BE DESIGNED FOR LOAD CASE A AND B.

PARAPET DIAGRAM

1 BUILDING COMPONENTS AND CLADDING PRESSURES

SCALE: N.T.S.



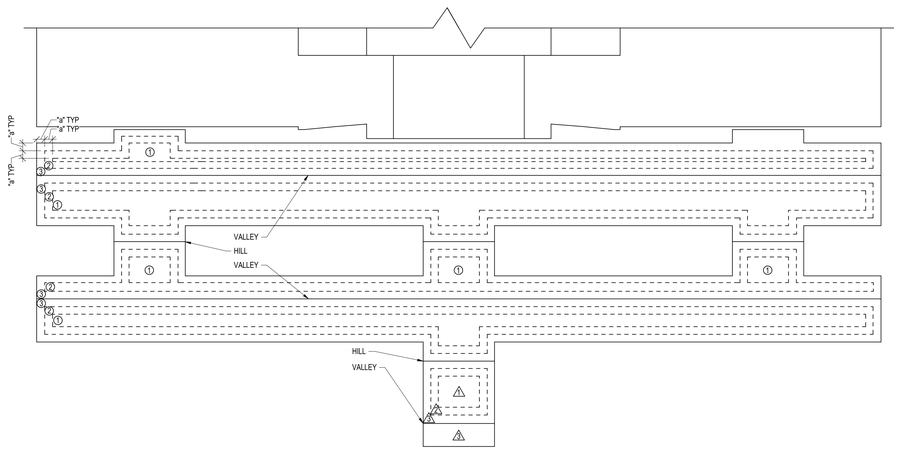
SNOW DRIFT SURCHARGE		
MARK	DRIFT WIDTH [W]	DRIFT LOAD SURCHARGE [Pd]
W1	10'-10"	49 PSF
W2	9'-4"	32 PSF
W3	8'-3"	40 PSF
W4	12'-0"	31 PSF
W5	6'-0"	20 PSF

NOTES:

1. SNOW PRESSURES SHOWN ARE SERVICE PER ASCE 7-16
2. Pf (PSF) DENOTES BALANCED SNOW LOAD PER ASCE 7-16
3. SNOW DRIFT LOAD CONFIGURATION PER ASCE.

2 SNOW DRIFT DIAGRAM

SCALE: N.T.S.



CANOPY COMPONENTS AND CLADDING PRESSURES (PSF)						
ZONE a = 5'-0"		EFFECTIVE WIND AREA				
		10 SF	50 SF	100 SF	200 SF	500 SF
ROOF	ALL ZONES	+101.9	+77.5	+51.0	+51.0	+51.0
	ZONE 1	-48.7	-48.7	-48.7	-48.7	-48.7
	ZONE 2	-75.3	-75.3	-48.7	-48.7	-48.7
	ZONE 3	-121.8	-75.3	-48.7	-48.7	-48.7

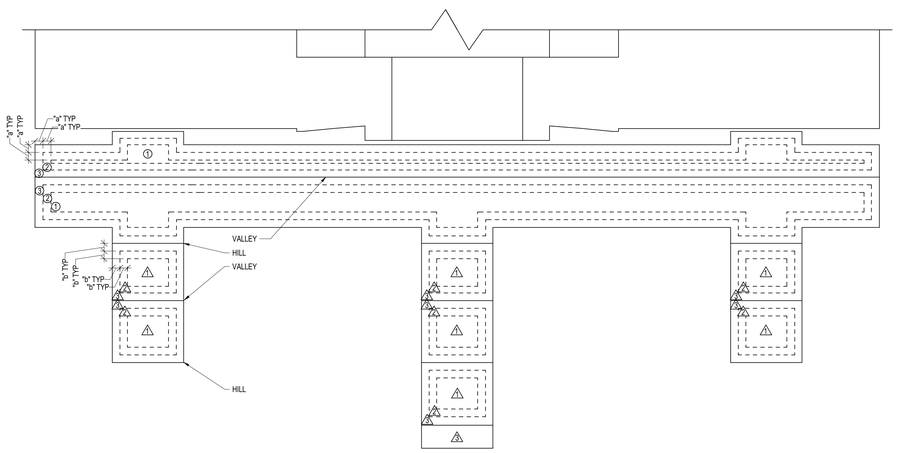
CANOPY COMPONENTS AND CLADDING PRESSURES (PSF)						
ZONE b = 3'-3"		EFFECTIVE WIND AREA				
		10 SF	50 SF	100 SF	200 SF	500 SF
ROOF	ALL ZONES	+97.1	+48.5	+48.5	+48.5	+48.5
	ZONE 1	-51.4	-51.4	-51.4	-51.4	-51.4
	ZONE 2	-77.9	-51.4	-51.4	-51.4	-51.4
	ZONE 3	-137.3	-51.4	-51.4	-51.4	-51.4

NOTES:

1. ALL WIND LOADS SHOWN ARE ULTIMATE PER ASCE 7-16 AND UNITS PSF.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE PRESSURES.
4. EDGE ZONE ("a", "b", "c", etc.) IS DISTANCE FROM CORNERS OF BUILDINGS.
5. FOR EFFECTIVE AREAS BETWEEN VALUES GIVEN, INTERPOLATION MAY BE USED. OTHERWISE, USE THE LOWER EFFECTIVE AREA.

3 CANOPY COMPONENTS & CLADDING PRESSURES (BASE BID & BID ALTERNATE 4)

SCALE: N.T.S.



CANOPY COMPONENTS AND CLADDING PRESSURES (PSF)						
ZONE a = 5'-0"		EFFECTIVE WIND AREA				
		10 SF	50 SF	100 SF	200 SF	500 SF
ROOF	ALL ZONES	+101.9	+77.5	+51.0	+51.0	+51.0
	ZONE 1	-48.7	-48.7	-48.7	-48.7	-48.7
	ZONE 2	-75.3	-75.3	-48.7	-48.7	-48.7
	ZONE 3	-121.8	-75.3	-48.7	-48.7	-48.7

CANOPY COMPONENTS AND CLADDING PRESSURES (PSF)						
ZONE b = 3'-3"		EFFECTIVE WIND AREA				
		10 SF	50 SF	100 SF	200 SF	500 SF
ROOF	ALL ZONES	+97.1	+48.5	+48.5	+48.5	+48.5
	ZONE 1	-51.4	-51.4	-51.4	-51.4	-51.4
	ZONE 2	-77.9	-51.4	-51.4	-51.4	-51.4
	ZONE 3	-137.3	-51.4	-51.4	-51.4	-51.4

NOTES:

1. ALL WIND LOADS SHOWN ARE ULTIMATE PER ASCE 7-16 AND UNITS PSF.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. EACH COMPONENT MUST BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE PRESSURES.
4. EDGE ZONE ("a", "b", "c", etc.) IS DISTANCE FROM CORNERS OF BUILDINGS.
5. FOR EFFECTIVE AREAS BETWEEN VALUES GIVEN, INTERPOLATION MAY BE USED. OTHERWISE, USE THE LOWER EFFECTIVE AREA.

4 CANOPY COMPONENTS & CLADDING PRESSURES (BID ALTERNATE 3)

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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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NOT FOR CONSTRUCTION

SHEET TITLE:
LOADING DIAGRAMS

SHEET ID:
S002

PROJECT STATUS:
100% BID SET

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GENERAL SPECIAL INSPECTION NOTES

1. THE OWNER MUST EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR MUST BE A QUALIFIED PERSON WHO MUST DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK BEING DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.
3. ALL INSPECTIONS MUST BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. THE SPECIAL INSPECTOR MUST BE INDEPENDENT FROM THE CONTRACTOR AND MUST NOT BE EMPLOYED BY OR UNDER CONTRACT WITH THE CONTRACTOR, JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR BUILDING OFFICIAL DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
4. ALL INSPECTION REPORTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL AND EOR. THE FINAL REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
6. WORK REQUIRING SPECIAL INSPECTION MUST BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF THE WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION; PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.
7. THE FOLLOWING SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS BY THE BUILDING OFFICIAL. THIS LIST IS NOT INTENDED TO BE ALL INCLUSIVE.

SPECIAL INSPECTIONS FOR FABRICATED ITEMS:

1. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF THE FABRICATED ITEMS MUST BE PERFORMED DURING FABRICATION, EXCEPT WHERE THE FABRICATOR HAS BEEN APPROVED TO PERFORM WORK WITHOUT SPECIAL INSPECTIONS IN ACCORDANCE WITH THE FOLLOWING:
   A. SPECIAL INSPECTIONS DURING FABRICATION ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL MUST BE BASED ON REVIEW OF THE FABRICATOR'S WRITTEN FABRICATION PROCEDURES AND QUALITY CONTROL MANUALS THAT PROVIDE A BASIS FOR CONTROL OF MATERIALS AND WORKMANSHIP, WITH PERIODIC AUDITING OF FABRICATION AND QUALITY CONTROL PRACTICES BY AN APPROVED AGENCY OR THE BUILDING OFFICIAL, AT COMPLETION OF FABRICATION. THE APPROVED FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER OR THE OWNER'S AUTHORIZED AGENT FOR SUBMITTAL TO THE BUILDING OFFICIAL AS SPECIFIED IN SECTION 1704.5 OF THE CODE.
   B. SPECIAL INSPECTIONS OF THE STEEL FABRICATION PROCESS MUST NOT BE REQUIRED WHERE THE FABRICATION PROCESS FOR THE ENTIRE BUILDING OR STRUCTURE DOES NOT INCLUDE ANY WELDING, THERMAL CUTTING OR HEATING OPERATION OF ANY KIND. IN SUCH CASES, THE FABRICATOR MUST BE REQUIRED TO SUBMIT A DETAILED PROCEDURE FOR MATERIAL CONTROL THAT DEMONSTRATES THE FABRICATOR'S ABILITY TO MAINTAIN SUITABLE RECORDS AND PROCEDURES SUCH THAT, AT ANY TIME DURING THE FABRICATION PROCESS, THE MATERIAL SPECIFICATION AND GRADE FOR THE MAIN STRESS-CARRYING ELEMENTS ARE CAPABLE OF BEING DETERMINED. MILL TEST REPORTS MUST BE IDENTIFIABLE TO THE MAIN STRESS-CARRYING ELEMENTS WHERE REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS.
2. SPECIAL INSPECTIONS OF FABRICATED ITEMS AND OF THE ERECTED STEEL SYSTEM MUST BE MADE AT THE FABRICATOR'S PLANT AND AT THE PROJECT SITE, RESPECTIVELY.
3. THE SPECIAL INSPECTOR MUST REVIEW THE MATERIAL TEST REPORTS AND CERTIFICATIONS AS LISTED IN AISC 360-16 SECTION N3.2 FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

SPECIAL INSPECTION TASKS PRIOR TO WELDING (BASED ON AISC 360-16 TABLE N5.4-1)

TYPE	CONTINUOUS	PERIODIC
WELDING PROCEDURE SPECIFICATIONS (WSPs) AVAILABLE	☒	☐
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	☒	☐
MATERIAL IDENTIFICATION (TYPE/GRADE)	☐	☒
WELDER IDENTIFICATION SYSTEM[1]	☐	☒
FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY) a. JOINT PREPARATION b. DIMENSIONS (ALIGNMENT, ROOT OPENING, FOOT FACE, BEVEL) c. CLEANLINESS (CONDITION OF STEEL SURFACES) d. TACKING (TACK WELD QUALITY AND LOCATION) e. BACKING TYPE AND FIT (IF APPLICABLE)	☐	☒
CONFIGURATION AND FINISH OF ACCESS HOLES	☐	☒
FIT-UP OF FILLET WELDS a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT) b. CLEANLINESS (CONDITION OF STEEL SURFACES) c. TACKING (TACK WELD QUALITY AND LOCATION)	☐	☒

[1]THE FABRICATOR OR ERECTOR, AS APPLICABLE, MUST MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, MUST BE THE LOW-STRESS TYPE.

SPECIAL INSPECTION TASKS DURING WELDING (BASED ON AISC 360-16 TABLE N5.4-2)

TYPE	CONTINUOUS	PERIODIC
USE OF QUALIFIED WELDERS	☐	☒
CONTROL AND HANDLING OF WELDING CONSUMABLES a. PACKAGING b. EXPOSURE CONTROL	☐	☒
NO WELDING OVER CRACKED TACK WELDS	☐	☒
ENVIRONMENTAL CONDITIONS a. WIND SPEED WITHIN LIMITS b. PRECIPITATION AND TEMPERATURE	☐	☒
WPS FOLLOWED a. SETTINGS ON WELDING EQUIPMENT b. TRAVEL SPEED c. SELECTED WELDING MATERIALS d. SHIELDING GAS TYPE/FLOW RATE e. PREHEAT APPLIED f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) g. PROPER POSITION (F, V, H, OH)	☐	☒
WELDING TECHNIQUES a. INTERPASS AND FINAL CLEANING b. EACH PASS WITHIN PROFILE LIMITATIONS c. EACH PASS MEETS QUALITY REQUIREMENTS	☐	☒

SPECIAL INSPECTION TASKS AFTER WELDING (BASED ON AISC 360-16 TABLE N5.4-3)

TYPE	CONTINUOUS	PERIODIC
WELDS CLEANED	☐	☒
SIZE, LENGTH AND LOCATION OF WELDS	☒	☐
WELDS MEET VISUAL ACCEPTANCE CRITERIA a. CRACK PROHIBITION b. WELD/BASE-METAL FUSION c. CRATER CROSS SECTION d. WELD PROFILES e. WELD SIZE f. UNDERCUT g. POROSITY	☒	☐
WPS FOLLOWED a. SETTINGS ON WELDING EQUIPMENT b. TRAVEL SPEED c. SELECTED WELDING MATERIALS d. SHIELDING GAS TYPE/FLOW RATE e. PREHEAT APPLIED f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) g. PROPER POSITION (F, V, H, OH)	☒	☐
ARC STRIKES	☒	☐
K-AREA[1]	☒	☐
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	☒	☐
REPAIR ACTIVITIES	☒	☐
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	☒	☐

[1]WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.

NONDESTRUCTIVE TESTING OF WELDED JOINTS

1. ULTRASONIC TESTING (UT), MAGNETIC PARTICLE TESTING (MT), PENETRANT TESTING (PT) AND RADIOGRAPHIC TESTING (RT), WHERE REQUIRED, MUST BE PERFORMED IN ACCORDANCE WITH AWS D1.1/D1.1M. ACCEPTANCE CRITERIA MUST BE IN ACCORDANCE WITH AWS D1.1/D1.1M FOR STATICALLY LOADED STRUCTURES, UNLESS OTHERWISE DESIGNATED IN THE DESIGN DRAWINGS OR PROJECT SPECIFICATIONS.
2. FOR STRUCTURES IN RISK CATEGORY III OR IV, UT MUST BE PERFORMED ON ALL CJP GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS. IN MATERIALS 5/16 INCH THICK OR GREATER. FOR STRUCTURES IN RISK CATEGORY II, UT MUST BE PERFORMED ON 10% OF CJP GROOVE WELDS, IN BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING, IN MATERIALS 5/16 INCH THICK OR GREATER.
3. THERMALLY CUT SURFACES OF ACCESS HOLES MUST BE TESTED USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 INCHES FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 INCHES FOR BUILT-UP SHAPES. ANY CRACK MUST BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION.
4. ALL NDT PERFORMED MUST BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT MUST IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT MUST IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD MUST INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION.

SPECIAL INSPECTIONS FOR STRUCTURAL STEEL:

1. SPECIAL INSPECTIONS AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF MUST BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.
2. WELDING INSPECTOR(S) MUST BE QUALIFIED TO THE SATISFACTION OF THE OWNER, ENGINEER OF RECORD, AND AUTHORITY HAVING JURISDICTION, AND IN ACCORDANCE WITH EITHER OF THE FOLLOWING:
   A. WELDING INSPECTORS (WIs) OR SENIOR WELDING INSPECTORS (SWIs), AS DEFINED IN AWS B5.1, *STANDARD FOR THE QUALIFICATION OF WELDING INSPECTORS*, EXCEPT ASSOCIATE WELDING INSPECTORS (AWIs) ARE PERMITTED TO BE USED UNDER THE DIRECT SUPERVISION OF WIs, WHO ARE ON THE PREMISES AND AVAILABLE WHEN WELD INSPECTION IS BEING CONDUCTED, OR
   B. QUALIFIED UNDER THE PROVISIONS OF AWS D1.1/D1.1M, SUBCLAUSE 6.1.4
3. NONDESTRUCTIVE TESTING PERSONNEL, FOR NOT OTHER THAN VISUAL, MUST BE QUALIFIED IN ACCORDANCE WITH THEIR EMPLOYER'S WRITTEN PRACTICE, WHICH MUST MEET OR EXCEED THE CRITERIA OF AWS D1.1/1.1M *STRUCTURAL WELDING CODE-STEEL*, SUBCLAUSE 6.14.6, AND:
   A. AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-1A, *RECOMMENDED PRACTICE FOR THE QUALIFICATION AND CERTIFICATION OF NONDESTRUCTIVE TESTING PERSONNEL*, OR
   B. ASNT CP-189, *STANDARD FOR THE QUALIFICATION AND CERTIFICATION OF NONDESTRUCTIVE TESTING PERSONNEL*.

SPECIAL INSPECTION TASKS PRIOR TO WELDING (BASED ON AISC 360-16 TABLE N5.4-1)

TYPE	CONTINUOUS	PERIODIC
WELDING PROCEDURE SPECIFICATIONS (WSPs) AVAILABLE	☒	☐
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	☒	☐
MATERIAL IDENTIFICATION (TYPE/GRADE)	☐	☒
WELDER IDENTIFICATION SYSTEM[1]	☐	☒
FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY) a. JOINT PREPARATION b. DIMENSIONS (ALIGNMENT, ROOT OPENING, FOOT FACE, BEVEL) c. CLEANLINESS (CONDITION OF STEEL SURFACES) d. TACKING (TACK WELD QUALITY AND LOCATION) e. BACKING TYPE AND FIT (IF APPLICABLE)	☐	☒
CONFIGURATION AND FINISH OF ACCESS HOLES	☐	☒
FIT-UP OF FILLET WELDS a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT) b. CLEANLINESS (CONDITION OF STEEL SURFACES) c. TACKING (TACK WELD QUALITY AND LOCATION)	☐	☒

[1]THE FABRICATOR OR ERECTOR, AS APPLICABLE, MUST MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, MUST BE THE LOW-STRESS TYPE.

SPECIAL INSPECTION TASKS DURING WELDING (BASED ON AISC 360-16 TABLE N5.4-2)

TYPE	CONTINUOUS	PERIODIC
USE OF QUALIFIED WELDERS	☐	☒
CONTROL AND HANDLING OF WELDING CONSUMABLES a. PACKAGING b. EXPOSURE CONTROL	☐	☒
NO WELDING OVER CRACKED TACK WELDS	☐	☒
ENVIRONMENTAL CONDITIONS a. WIND SPEED WITHIN LIMITS b. PRECIPITATION AND TEMPERATURE	☐	☒
WPS FOLLOWED a. SETTINGS ON WELDING EQUIPMENT b. TRAVEL SPEED c. SELECTED WELDING MATERIALS d. SHIELDING GAS TYPE/FLOW RATE e. PREHEAT APPLIED f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) g. PROPER POSITION (F, V, H, OH)	☐	☒
WELDING TECHNIQUES a. INTERPASS AND FINAL CLEANING b. EACH PASS WITHIN PROFILE LIMITATIONS c. EACH PASS MEETS QUALITY REQUIREMENTS	☐	☒

SPECIAL INSPECTION TASKS AFTER WELDING (BASED ON AISC 360-16 TABLE N5.4-3)

TYPE	CONTINUOUS	PERIODIC
WELDS CLEANED	☐	☒
SIZE, LENGTH AND LOCATION OF WELDS	☒	☐
WELDS MEET VISUAL ACCEPTANCE CRITERIA a. CRACK PROHIBITION b. WELD/BASE-METAL FUSION c. CRATER CROSS SECTION d. WELD PROFILES e. WELD SIZE f. UNDERCUT g. POROSITY	☒	☐
WPS FOLLOWED a. SETTINGS ON WELDING EQUIPMENT b. TRAVEL SPEED c. SELECTED WELDING MATERIALS d. SHIELDING GAS TYPE/FLOW RATE e. PREHEAT APPLIED f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) g. PROPER POSITION (F, V, H, OH)	☒	☐
ARC STRIKES	☒	☐
K-AREA[1]	☒	☐
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	☒	☐
REPAIR ACTIVITIES	☒	☐
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	☒	☐

[1]WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.

NONDESTRUCTIVE TESTING OF WELDED JOINTS

1. ULTRASONIC TESTING (UT), MAGNETIC PARTICLE TESTING (MT), PENETRANT TESTING (PT) AND RADIOGRAPHIC TESTING (RT), WHERE REQUIRED, MUST BE PERFORMED IN ACCORDANCE WITH AWS D1.1/D1.1M. ACCEPTANCE CRITERIA MUST BE IN ACCORDANCE WITH AWS D1.1/D1.1M FOR STATICALLY LOADED STRUCTURES, UNLESS OTHERWISE DESIGNATED IN THE DESIGN DRAWINGS OR PROJECT SPECIFICATIONS.
2. FOR STRUCTURES IN RISK CATEGORY III OR IV, UT MUST BE PERFORMED ON ALL CJP GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS. IN MATERIALS 5/16 INCH THICK OR GREATER. FOR STRUCTURES IN RISK CATEGORY II, UT MUST BE PERFORMED ON 10% OF CJP GROOVE WELDS, IN BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING, IN MATERIALS 5/16 INCH THICK OR GREATER.
3. THERMALLY CUT SURFACES OF ACCESS HOLES MUST BE TESTED USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 INCHES FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 INCHES FOR BUILT-UP SHAPES. ANY CRACK MUST BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION.
4. ALL NDT PERFORMED MUST BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT MUST IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT MUST IDENTIFY THE TESTED WELD BY LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE NDT RECORD MUST INDICATE THE LOCATION OF THE DEFECT AND THE BASIS OF REJECTION.

SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION:

1. SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602.
2. VERIFICATION OF TESTS MUST BE PERFORMED FOR THE FOLLOWING:
   A. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5.B.1.b.3 FOR SELF-CONSOLIDATING GROUT.
   B. VERIFICATION OF f'_m AND f_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4.B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.

SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION (LEVEL B QUALITY ASSURANCE)

TYPE	CONTINUOUS	PERIODIC
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	☐	☒
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. PROPORTIONS OF SITE-PREPARED MORTAR b. CONSTRUCTION OF MORTAR JOINTS c. LOCATION OF REINFORCEMENT AND CONNECTORS	☐	☒
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. GROUT SPACE b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. c. PLACEMENT OF REINFORCEMENT AND CONNECTORS. d. PROPORTIONS OF SITE-PREPARED GROUT. e. CONSTRUCTION OF MORTAR JOINTS.	☐	☒
VERIFY DURING CONSTRUCTION: a. SIZE AND LOCATION OF STRUCTURE ELEMENTS. b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRICTION. c. WELDING OF REINFORCEMENT. d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F). e. PLACEMENT OF GROUT IS IN COMPLIANCE.	☐ ☐ ☒ ☐ ☐	☒ ☒ ☐ ☐ ☒
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	☐	☒

SPECIAL INSPECTIONS FOR HIGH-STRENGTH BOLTING

1. OBSERVATION OF BOLTING OPERATIONS MUST BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE PROVISIONS OF THE RCSC SPECIFICATION.
2. FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN THE TABLE BASED ON AISC 360-16 TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN THE TABLE BASED ON AISC 360-16 TABLE N5.6-2 ARE NOT APPLICABLE. THE SPECIAL INSPECTOR NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS.
3. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES MUST BE AS SPECIFIED IN THE TABLE BASED ON AISC 360-16 TABLE N5.6-2. THE SPECIAL INSPECTOR NEED NOT BE PRESENT DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER.
4. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORING OF BOLT PRETENSIONING PROCEDURES MUST BE AS SPECIFIED IN THE TABLE BASED ON AISC 360-16 TABLE N5.6-2. THE SPECIAL INSPECTOR MUST BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER.
5. THE SPECIAL INSPECTOR MUST BE ON THE PREMISES FOR THE INSPECTION DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, MUST BE VERIFIED PRIOR TO PLACEMENT OF CONCRETE.
6. THE SPECIAL INSPECTOR MUST INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPROPRIATE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

SPECIAL INSPECTION TASKS PRIOR TO BOLTING (BASED ON AISC 360-16 TABLE N5.6-1)

TYPE	CONTINUOUS	PERIODIC
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	☒	☐
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	☐	☒
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	☐	☒
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	☐	☒
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	☐	☒
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	☐	☒
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	☐	☒

SPECIAL INSPECTION TASKS DURING BOLTING (BASED ON AISC 360-16 TABLE N5.6-2)

TYPE	CONTINUOUS	PERIODIC
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	☐	☒
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	☐	☒
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	☐	☒
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARDS THE FREE EDGES	☐	☒

SPECIAL INSPECTION TASKS AFTER BOLTING (BASED ON AISC 360-16 TABLE N5.6-3)

TYPE	CONTINUOUS	PERIODIC
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	☒	☐

SPECIAL INSPECTIONS FOR CONCRETE CONSTRUCTION:

SPECIAL INSPECTIONS AND TESTS FOR OF CONCRETE CONSTRUCTION (IBC 2021 - TABLE 1705.3)

TYPE	CONTINUOUS	PERIODIC
INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	☐	☒
REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS	☐ ☐ ☒	☒ ☒ ☐
INSPECT ANCHORS CAST IN CONCRETE	☐	☒
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS; b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN a.	☒ ☐	☐ ☒
VERIFY USE OF REQUIRED DESIGN MIX.	☐	☒
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	☒	☐
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	☒	☐
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	☐	☒
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	☐	☒
VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	☐	☒
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE BEING FORMED.	☐	☒

SPECIAL INSPECTIONS FOR REINFORCING BARS

1. SPECIAL INSPECTIONS OF WELDING AND QUALIFICATIONS OF SPECIAL INSPECTOR(S) FOR REINFORCING BARS MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF AWS D1.4.

SPECIAL INSPECTIONS FOR DEEP FOUNDATIONS/SOILS:

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

TYPE	CONTINUOUS	PERIODIC
INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	☒	☐
VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENTS DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	☒	☐
FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS AND TESTS AS REQUIRED IN CONCRETE SPECIAL INSPECTIONS SECTION.	☐	☐

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS	PERIODIC
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	☐	☒
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	☐	☒
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	☐	☒
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	☒	☐
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	☐	☒

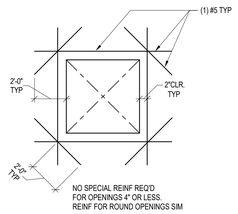
SPECIAL INSPECTIONS FOR SEGMENTAL RETAINING WALL:

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

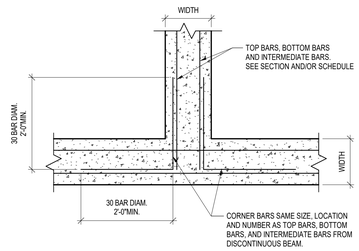
TYPE	CONTINUOUS	PERIODIC
MATERIAL VERIFICATION: a. PERFORM SOIL TESTING OF THE RETAINED, FOUNDATION AND PROPOSED FILL MATERIALS TO VERIFY DESIRED VALUES ARE ACHIEVED. b. VERIFY BLOCK TYPE, GRID TYPE, DRAINAGE MATERIALS, AND/OR FILTER FABRIC.	☐ ☐	☒ ☒
MATERIAL VERIFICATION: a. PERFORM SOIL TESTING OF FOUNDATION AREA (LEVELING PLAN AND REINFORCED ZONE) TO VERIFY ADEQUATE BEARING CAPACITY. b. VERIFY THICKNESS AND WIDTH OF RETAINING WALL LEVELING PAD.	☐ ☒	☒ ☐
VERIFY USE OF PROPER SOIL, DENSITIES, MOISTURE CONTENT, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF STRUCTURAL FILL.	☒

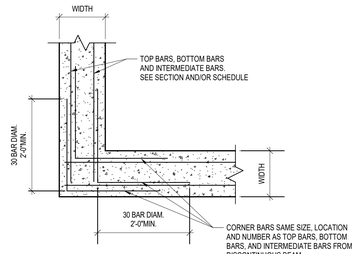
SPECIFIED CONCRETE COVER FOR CAST-IN-PLACE CONCRETE MEMBERS			
CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER (INCHES)
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	NO. 6 THROUGH NO. 18 BARS	2
		NO. 5 BAR AND SMALLER	1 1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLABS, JOISTS, AND WALLS	NO. 11 BAR AND SMALLER	3/4
	BEAMS, COLUMNS, AND PEDESTALS	PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	1 1/2

1 CONCRETE COVER TABLE
SCALE: N.T.S.

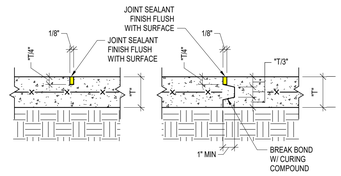


2 SLAB OPENING REINFORCING
SCALE: N.T.S.





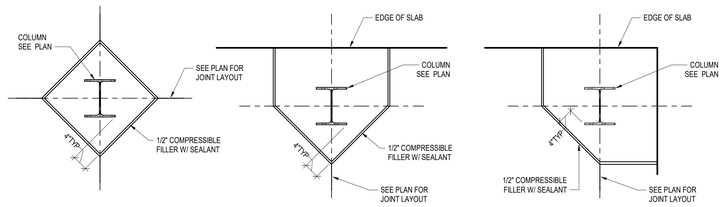
3 TYPICAL CONCRETE FOUNDATION CORNERS
SCALE: N.T.S.



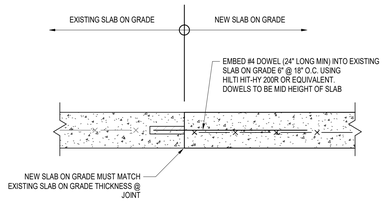
CRACK CONTROL JOINT - (CCJ) **CONSTRUCTION JOINT - (CJ)**

NOTES:
1. CCJ MUST BE PREFORMED OR SAWED. IF SAWED, SAWING MUST TAKE PLACE WITHIN 12 HOURS OF SLAB PLACEMENT.
2. USE CJ INSTEAD OF CRACK CONTROL JOINT WHEREVER CONSTRUCTION IS STOPPED OR WHERE CALLED FOR ON PLAN.

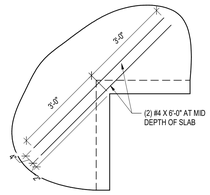
4 TYPICAL SLAB ON GRADE JOINT DETAILS
SCALE: N.T.S.



5 TYPICAL BLOCKOUT @ COLUMN
SCALE: N.T.S.



6 TYPICAL EXISTING / NEW FLOOR JOINT
SCALE: N.T.S.



NOTES:
1. DETAILS APPLIES AT ALL SLAB RE-ENTRANT CORNERS.

7 TYPICAL REINFORCING @ INSIDE CORNERS
SCALE: N.T.S.

TYPICAL LAP SPLICE SCHEDULE 4,500 PSI CONCRETE

BAR SIZE	TOP BAR LAP SPLICE	OTHER BAR LAP SPLICE
#3	23"	18"
#4	31"	24"
#5	38"	30"
#6	46"	35"
#7	67"	51"
#8	76"	59"
#9	86"	66"
#10	95"	73"

TYPICAL LAP SPLICE SCHEDULE 5,000 PSI CONCRETE

BAR SIZE	TOP BAR LAP SPLICE	OTHER BAR LAP SPLICE
#3	22"	17"
#4	29"	23"
#5	36"	28"
#6	44"	34"
#7	63"	49"
#8	72"	56"
#9	81"	63"
#10	90"	69"

CONCRETE LAP SPLICE NOTES:
1. TABULATED VALUES ARE BASED ON THE FOLLOWING:
   a. ACI 318-14
   b. NORMAL WEIGHT CONCRETE.
   c. UNCOATED GRADE 60 REINFORCING BARS.
   d. CLEAR COVER NOT LESS THAN 1.0 x BAR DIAMETER.
   e. CLEAR SPACING NOT LESS THAN 2.0 x BAR DIAMETER.
   f. LAP CLASS B.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

8 CONCRETE LAP SPLICES
SCALE: N.T.S.

WASHER SCHEDULE

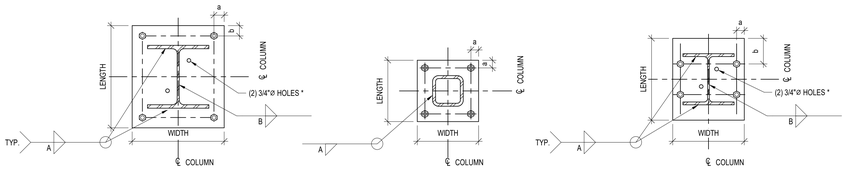
ANCHOR BOLT DIAMETER	HOLE DIAMETER (MAX)	WASHER SIZE (MIN)	WASHER THICKNESS (MIN)	ANCHOR BOLT DIAMETER	HOLE DIAMETER (MAX)	WASHER SIZE (MIN)	WASHER THICKNESS (MIN)
3/4" *	1-1/16"	2"	1/4"	1-1/2"	1-15/16"	3-1/2"	1/2"
7/8"	1-5/16"	2-1/2"	5/16"	1-3/4"	2-3/16"	4"	5/8"
1"	1-7/16"	3"	3/8"	2"	2-7/16"	5"	3/4"
1-1/4"	1-11/16"	3"	1/2"	2-1/2"	2-15/16"	5-1/2"	7/8"

NOTES:
1. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE & THICKNESS ARE ACCEPTABLE.
2. * USS STANDARD (ASTM F844) WASHERS ARE ACCEPTABLE WHEN PUNCHED HOLES ARE 1-1/16 DIAMETER (MAX).
3. ALL ANCHOR BOLTS MUST BE HEX HEADED, UNO.
4. WELD: W = WASHER THICKNESS - 1/16", UNO.
5. NON-SHRINK GROUT THICKNESS: T = DIA. BOLT + 1/2", MUST NOT BE LESS THAN 1 1/2" OR GREATER THAN 2", UNO.

9 TYPICAL ANCHOR DETAIL
SCALE: N.T.S.

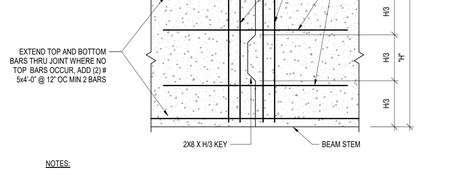
BASE PLATE SCHEDULE

TYPE	WIDTH X LENGTH	THICKNESS	BP MATERIAL	EDGE DISTANCE "a"	EDGE DISTANCE "b"	ANCHOR ROD DIA. X EMBEDMENT	ANCHOR ROD MATERIAL	REMARKS
BP-1	19"X19"	1-1/2"	ASTM 572 GR 50	4"	6"	3/4"ø X 18"	-	TYPE-3
BP-2	24"X30"	1-3/4"	ASTM 572 GR 50	3"	3"	1-1/4"ø X 32"	F1554 GR.55	SEE 1/S303
BP-3	30"X40"	2-3/4"	ASTM 572 GR 50	3-1/2"	3-1/2"	1-3/4"ø X 26"	F1554 GR.55	SEE 1/S301-3
BP-4	26"X36"	2-1/4"	ASTM 572 GR 50	3-1/2"	3-1/2"	1-1/2"ø X 24"	F1554 GR.55	SEE 2/S301-3
BP-5	24"X30"	1-3/4"	ASTM 572 GR 50	3"	3"	1-1/4"ø X 24"	F1554 GR.55	TYPE-1
BP-6	24"X30"	1-3/4"	ASTM 572 GR 50	3-1/2"	3-1/2"	1-1/2"ø X 42"	F1554 GR.55	SEE 6/S302
BP-7	22"X26"	1-1/4"	ASTM 572 GR 50	3"	3"	1"ø X 42"	-	TYPE-1
BP-8	22"X22"	1-1/4"	-	3"	3"	1"ø X 18"	-	TYPE-1
BP-9	12"X12"	3/4"	-	1-1/2"	1-1/2"	3/4"ø X 12"	-	TYPE-2
BP-10	22"X22"	1"	-	1-1/2"	1-1/2"	POST INSTALLED	-	TYPE-2, SEE 5/S303
BP-11	20"X20"	1"	-	4"	7"	1"ø X 18"	F1554 GR.55	TYPE-3



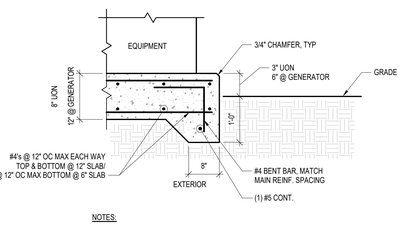
NOTES:
1. FOR ADDITIONAL ANCHOR BOLT INFORMATION SEE DETAIL 9/S011
2. WELD DESIGNATION "A" IS 1/16" LESS THAN FLANGE THICKNESS
3. WELD DESIGNATION "B" IS 1/16" LESS THAN WEB THICKNESS
4. * INSPECTION HOLES SHALL:
   A. BE LOCATED 2" FROM THE FLANGE & WEB ON OPPOSITE CORNERS AS SHOWN.
   B. IT IS PERMITTED TO ADJUST LOCATION TO AVOID CONFLICT WITH BOLTS OR SHEAR LUG
   C. INSPECTION HOLE SHALL NOT BE WITHIN 2" OF ANY BOLT

10 TYPICAL BASE PLATE DETAIL & SCHEDULE
SCALE: N.T.S.



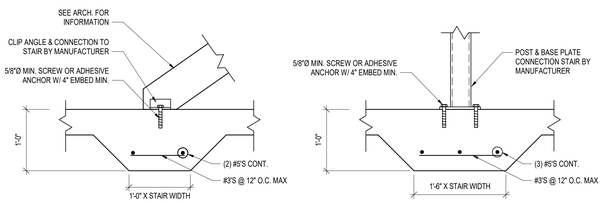
NOTES:
1. DETAIL APPLIES TO ALL CONSTRUCTION JOINTS FOR HORIZONTAL CONCRETE ELEMENTS NOT CONTINUOUSLY SUPPORTED
2. JOINT SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPANS OF BEAMS.
3. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR APPROVAL BY THE EOR.

11 TYPICAL CONCRETE CONSTRUCTION JOINTS
SCALE: N.T.S.

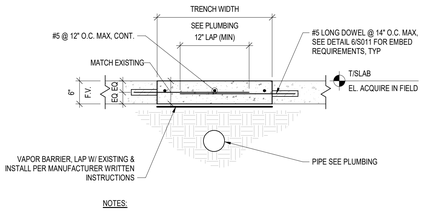


NOTES:
1. CONCRETE PAD LOCATIONS & QUANTITY SHALL BE COORDINATED WITH ARCHITECTURAL, ELECTRICAL, MECHANICAL AND PLUMBING.

12 TYPICAL EQUIPMENT PAD
SCALE: N.T.S.



13 THICKENED FLOOR SLAB @ STAIR TO SLAB ON GRADE CONNECTION
SCALE: N.T.S.



NOTES:
1. FOR TRENCH WIDTH, LENGTH AND LOCATION SEE PLUMBING DOCUMENTATION

14 TYPICAL SLAB REPAIR @ PIPE TRENCH
SCALE: N.T.S.

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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:
CONCRETE TYPICAL DETAILS

SHEET ID:
S011

PROJECT STATUS:
100% BID SET

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CONTINUOUS FLIGHT AUGER CAST-IN-PLACE PILE SCHEDULE (ACP)

		REINFORCEMENT			ALLOWABLE PILE LOAD CAPACITY		
PILE MARK	DIAMETER	LONGITUDINAL	TIES	LENGTH *	COMPRESSION	TENSION	LATERAL
P-1	18"	(6) #7'S	#3'S @ 12" O.C. MAX	45'-0"	240 KIPS	27 KIPS	26 KIPS
P-2	18"	(6) #7'S	#3'S @ 12" O.C. MAX	60'-0"	240 KIPS	27 KIPS	26 KIPS

NOTES:

1. ALLOWABLE PILE LOAD CAPACITY PROVIDED IS BASED ON INFORMATION PROVIDED IN GEOTECHNICAL REPORT REFERENCED ON SHEET S001.
2. PILE LOAD TEST SHALL BE PERFORMED UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER AND IN ACCORDANCE WITH THE FOLLOWING:
   A. (1) STATIC LOAD TEST TO FAILURE OR AT LEAST TWICE THE ALLOWABLE PILE LOAD CAPACITY (TEST PER ASTM D1143)
   B. (1) STATIC UPLIFT LOAD TEST TO AT LEAST TWICE THE ALLOWABLE PILE LOAD CAPACITY (TEST PER ASTM D3689)
   C. LOAD TEST SHALL BE PERFORMED ON SACRIFICIAL PILES.
   D. LOCATIONS OF TESTING PILES SHALL BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
3. * LENGTH PROVIDED IS FOR BIDDING PURPOSES ONLY. THE LENGTH OF EACH PILE SHALL BE SUFFICIENT TO BE EMBED AT LEAST 7'-0" INTO THE DENSE SANDY SOILS.
   A. THE GEOTECHNICAL ENGINEER SHALL VERIFY THE PILE TIP HAS REACHED ADEQUATE DEPTH FOR EVERY PILE.
4. REFERENCE SPECIFICATION 316316 FOR ADDITIONAL INFORMATION

1 CONTINUOUS FLIGHT AUGER CAST-IN-PLACE PILE SCHEDULE (ACP)

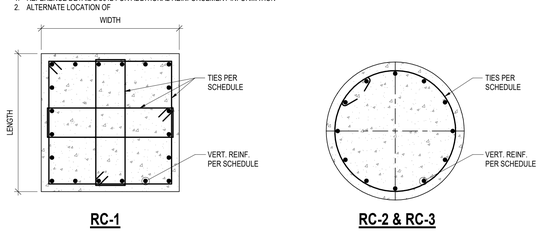
SCALE: N.T.S.

CONCRETE COLUMN & PEDESTAL SCHEDULE

TYPE	WIDTH	LENGTH	VERTICAL BARS	TIES	REMARKS
RC-1	36"	36"	(20) #8 BARS	#4 CLOSED TIES @ 14" O.C. MAX	-
RC-2	36"		(12) #9 BARS	#4 CLOSED TIES @ 16" O.C. MAX	-
RC-3	48"		(24) #8 BARS	#4 CLOSED TIES @ 14" O.C. MAX	f'c = 6,000 PSI
RC-4	26"	22"	(4) #8 BARS	#4 CLOSED TIES @ 12" O.C. MAX	f'c = 6,000 PSI, SEE POST-INSTALLED ANCHOR NOTES
RC-5	24"	36"	(6) #8 BARS	#4 CLOSED TIES @ 12" O.C. MAX	-
RC-6	36"	60"	(28) #8 BARS	#4 CLOSED TIES @ 12" O.C. MAX	-
PD-1	30"	30"	(16) #7 BARS	#4 CLOSED TIES @ 12" O.C. MAX	-

NOTES:

1. REFERENCE DETAIL 6/S012 FOR ADDITIONAL REINFORCEMENT INFORMATION
2. ALTERNATE LOCATION OF



4 CONCRETE COLUMN SCHEDULE

SCALE: N.T.S.

PILE CAP SCHEDULE FOR ACP

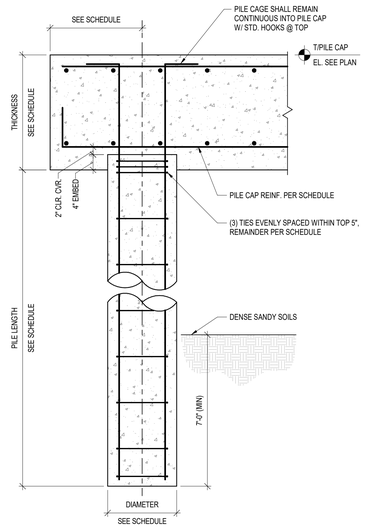
	GEOMETRY				REINFORCEMENT		REMARKS
PILE CAP MARK	WIDTH	LENGTH	TYPE/NO. PILES	THICKNESS	TOP BARS	BOTTOM BARS	
PC-2	8'-6"	4'-0"	P-1 / (2) PILES	34"	(6) #8 *, LONG WAY (12) #7 *, SHORT WAY	(6) #8 *, LONG WAY (12) #7 *, SHORT WAY	SEE 7/S013
PC-3	8'-6"	7'-11"	P-2 / (3) PILES	36"	(10) #8, EA. WAY	(10) #8 *, EA. WAY	SEE 1/S013
PC-3A	8'-6"	7'-11"	P-1 / (3) PILES	36"	(10) #8, EA. WAY	(10) #8 *, EA. WAY	SEE 1/S013
PC-3B	8'-6"	8'-9"	P-2 / (3) PILES	36"	(12) #8, EA. WAY	(12) #8 *, EA. WAY	SEE 10/S013
PC-4	8'-6"	8'-6"	P-2 / (4) PILES	48"	(12) #8 *, EA. WAY	(12) #8 *, EA. WAY	SEE 2/S013
PC-4A	8'-6"	8'-6"	P-1 / (4) PILES	48"	(16) #8 *, EA. WAY	(16) #8 *, EA. WAY	SEE 2/S013, STIRRUPS @ 12" O.C. MAX, EA. WAY
PC-5	11'-4"	11'-4"	P-1 / (5) PILES	60"	(20) #8 *, EA. WAY	(30) #8 *, EA. WAY	SEE 3/S013
PC-5A	8'-6"	13'-4"	P-2 / (5) PILES	54"	(16) #8 *, LONG WAY (32) #8 *, SHORT WAY	(16) #8 *, LONG WAY (32) #8 *, SHORT WAY	SEE 4/S013, STIRRUPS @ 8" O.C. MAX, LONG WAY
PC-6	8'-6"	13'-0"	P-2 / (6) PILES	48"	(12) #8 *, LONG WAY (19) #8 *, SHORT WAY	(12) #8 *, LONG WAY (19) #8 *, SHORT WAY	SEE 5/S013
PC-6A	SEE 6/S013	SEE 6/S013	P-1 / (6) PILES	60"	(20) #8 *, LONG WAY (34) #8 *, SHORT WAY	(20) #8 *, LONG WAY (34) #8 *, SHORT WAY	SEE 6/S013
PC-6B	SEE 6/S013	SEE 6/S013	P-1 / (6) PILES	60"	(20) #8 *, LONG WAY (34) #8 *, SHORT WAY	(20) #8 *, LONG WAY (34) #8 *, SHORT WAY	SEE 6/S013
PC-6C	SEE 1/S014	SEE 1/S014	P-1 / (6) PILES	60"	#8 * @ 5" O.C. MAX EA. WAY	#8 * @ 5" O.C. MAX EA. WAY	SEE 1/S014
PC-6D	SEE 1/S014	SEE 1/S014	P-1 / (6) PILES	60"	#8 * @ 5" O.C. MAX EA. WAY	#8 * @ 5" O.C. MAX EA. WAY	SEE 1/S014
PC-6E	8'-6"	13'-0"	P-1 / (6) PILES	60"	#8 * @ 6" O.C. MAX EA. WAY	#8 * @ 6" O.C. MAX EA. WAY	SEE 2/S014
PC-8	SEE 8/S013	SEE 8/S013	P-1 / (8) PILES	60"	#9 * @ 4" O.C. MAX, EA. WAY	#9 * @ 4" O.C. MAX, EA. WAY	SPLICES NOT PERMITTED, SEE 8/S013
PC-9	SEE 9/S013	SEE 9/S013	P-1 / (9) PILES	60"	#9 * @ 4" O.C. MAX, EA. WAY	#9 * @ 4" O.C. MAX, EA. WAY	SPLICES NOT PERMITTED, SEE 9/S013
PC-9A	13'-0"	13'-0"	P-1 / (9) PILES	60"	#8 * @ 6" O.C. MAX, EA. WAY	#8 * @ 6" O.C. MAX, EA. WAY	SEE 3/S014

NOTES:

1. * DENOTES REINFORCEMENT BARS REQUIRE STANDARD HOOKS AT EACH END.
2. GRADE BEAM AND TIE BEAM LONGITUDINAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH PILE CAP.
3. GRADE BEAM AND TIE BEAM FRAMING PERPENDICULAR INTO PILE CAP SHALL HAVE THE LONGITUDINAL REINFORCEMENT HOOKED INTO PILE CAP AT LEAST A LAP SPLICE LENGTH.
4. STIRRUP REINFORCEMENT PER DETAIL 5/S012

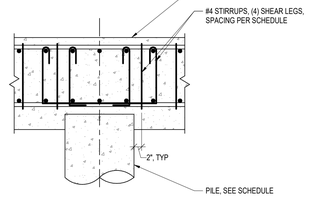
2 PILE CAP SCHEDULE FOR ACP

SCALE: N.T.S.



3 TYPICAL PILE & PILE CAP DETAIL

SCALE: N.T.S.

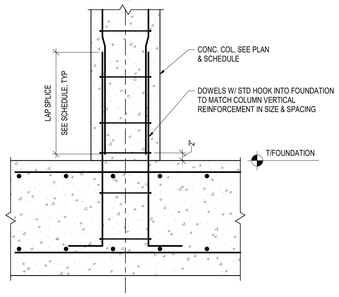


NOTES:

1. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN FOR CLARITY

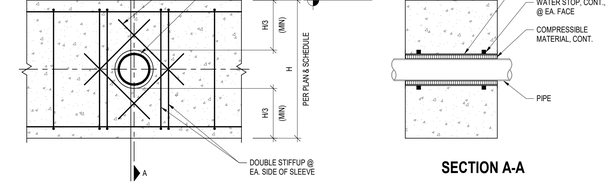
5 PILE CAP SHEAR REINF. TYPICAL DETAIL

SCALE: N.T.S.



6 TYPICAL CONCRETE COLUMN DETAIL

SCALE: N.T.S.

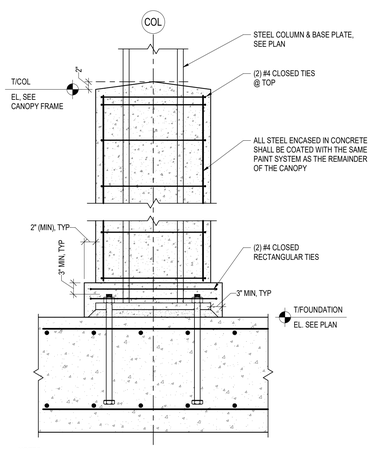


NOTES:

1. SLEEVE SHALL BE LOCATED AT LEAST 4'-0" FROM PIER OR COLUMN CENTER LINE
2. CONCRETE TIE BEAMS ARE NOT PERMITTED TO BE SLEEVED, UNO.
3. COORDINATE SLEEVE LOATIONS WITH PLUMBING.
4. REFERENCE ARCH. FOR WATERPROOFING, IF APPLICABLE.

9 SLEEVE IN CONCRETE DETAIL

SCALE: N.T.S.

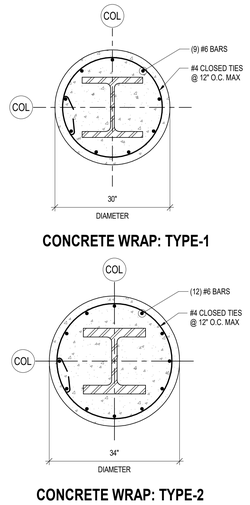


NOTES:

1. REFERENCE TICKET LEVEL OVERALL PLAN FOR LOCATIONS AND TYPE
2. CONCRETE COLUMN FORM SHALL BE SONOTUBE "FINISH FREE" OR APPROVED EQUAL.
3. EXPOSED CONCRETE FINISH AESTHETICS SHALL BE SATISFACTORY TO THE ARCHITECT

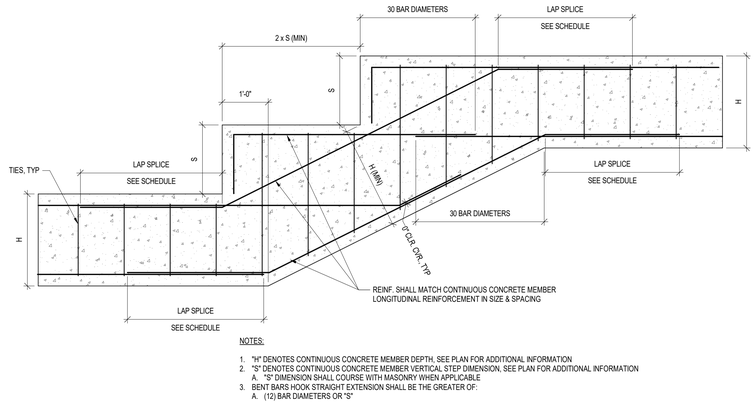
7 COLUMN CONCRETE ENCASEMENT TYPICAL DETAIL

SCALE: N.T.S.



8 TYPICAL FOUNDATION STEP DETAIL

SCALE: N.T.S.



NOTES:

1. "H" DENOTES CONTINUOUS CONCRETE MEMBER DEPTH. SEE PLAN FOR ADDITIONAL INFORMATION.
2. "S" DENOTES CONTINUOUS CONCRETE MEMBER VERTICAL STEP DIMENSION. SEE PLAN FOR ADDITIONAL INFORMATION
   A. "S" DIMENSION SHALL COURSE WITH MASONRY WHEN APPLICABLE
3. BENT BARS HOOK STRAIGHT EXTENSION SHALL BE THE GREATER OF:
   A. (12) BAR DIAMETERS OR "S"

8 TYPICAL FOUNDATION STEP DETAIL

SCALE: N.T.S.

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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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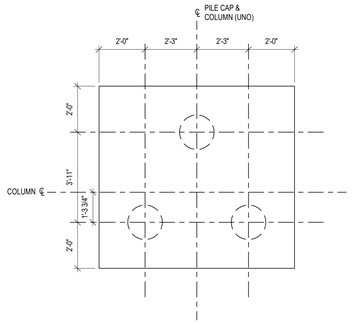
SHEET TITLE:
CONCRETE TYPICAL DETAILS

SHEET ID:
S012

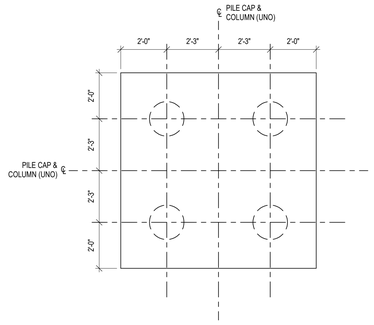
PROJECT STATUS:
100% BID SET

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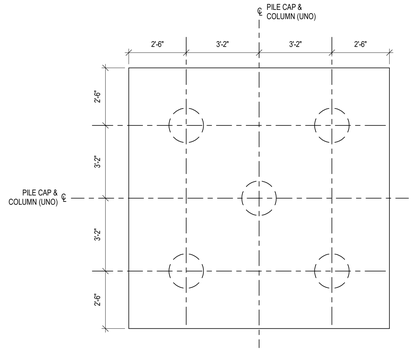
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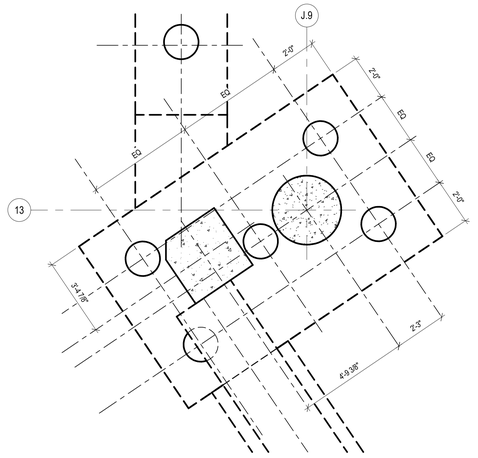
1 PILE CAP GEOMETRY (PC-3 & PC-3A)
SCALE: N.T.S.



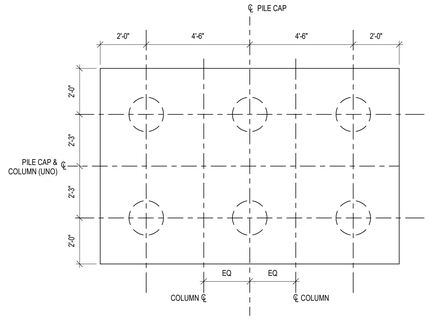
2 PILE CAP GEOMETRY (PC-4)
SCALE: N.T.S.



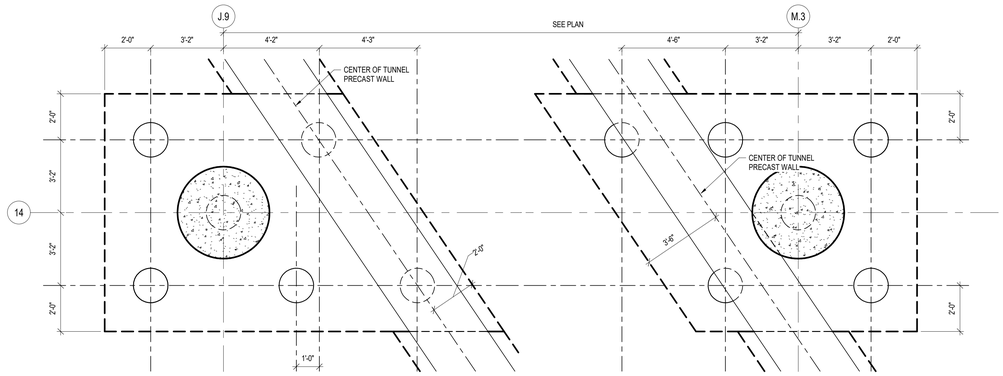
3 PILE CAP GEOMETRY (PC-5)
SCALE: N.T.S.



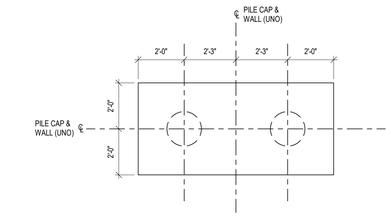
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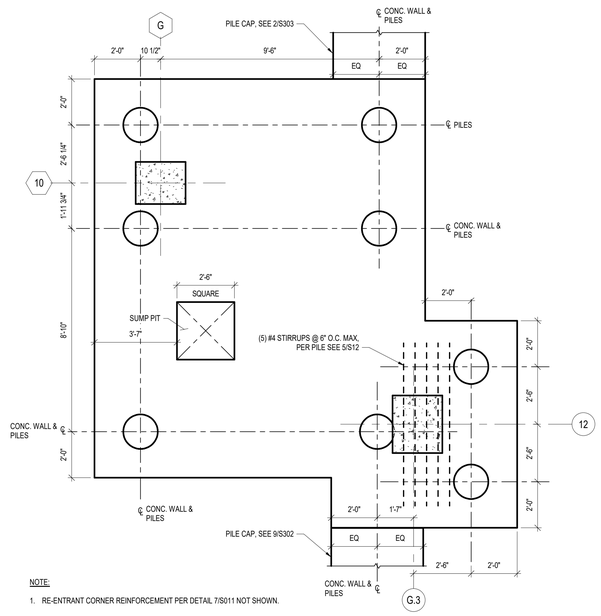
5 PILE CAP GEOMETRY (PC-6)
SCALE: N.T.S.



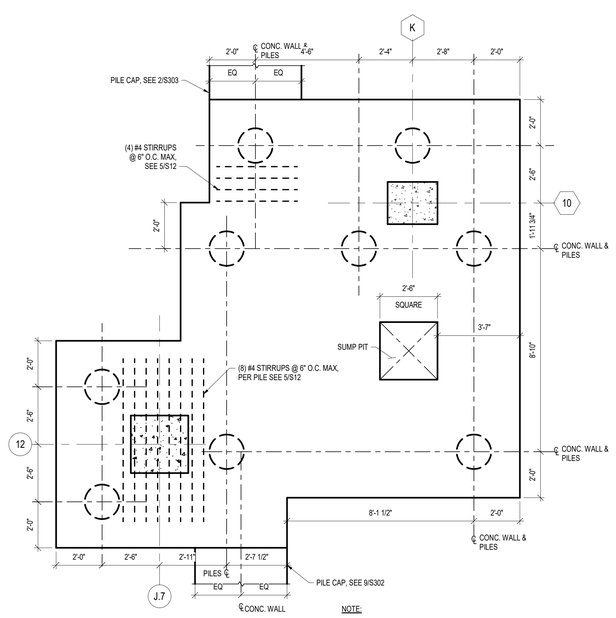
6 PILE CAP GEOMETRY (PC-6A & PC-6B)
SCALE: N.T.S.



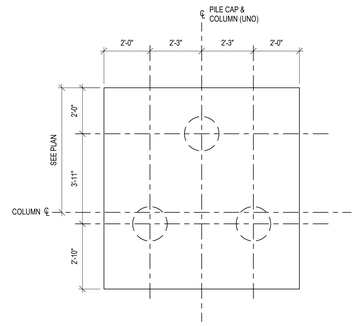
7 PILE CAP GEOMETRY (PC-2)
SCALE: N.T.S.



8 PILE CAP GEOMETRY (PC-8)
SCALE: N.T.S.



9 PILE CAP GEOMETRY (PC-9)
SCALE: N.T.S.



10 PILE CAP GEOMETRY (PC-3B)
SCALE: N.T.S.

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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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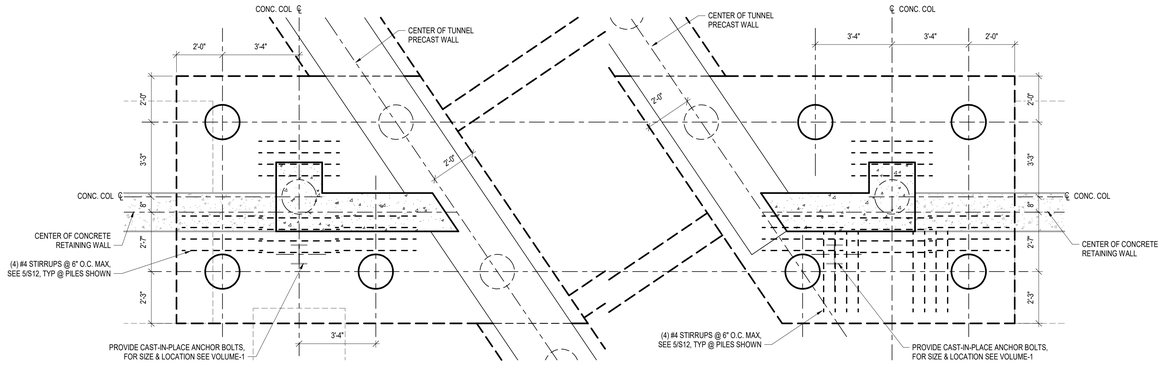
SEAL:
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SHEET TITLE:
CONCRETE PILE CAP TYPICAL DETAILS

SHEET ID:
S013

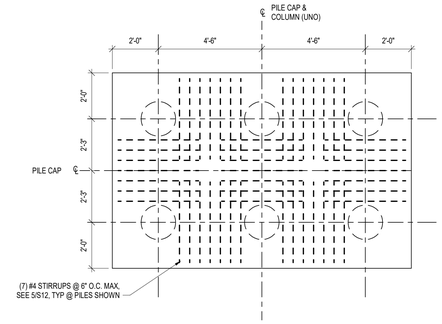
PROJECT STATUS:
100% BID SET

3/14/2025 6:23:34 AM Autodesk Docs://1003007/7004_ILM TOH Rdwy Inf Improv Design/2003007/7006_ILM_TO6 Terminal and Tunnel_S_R24.rvt
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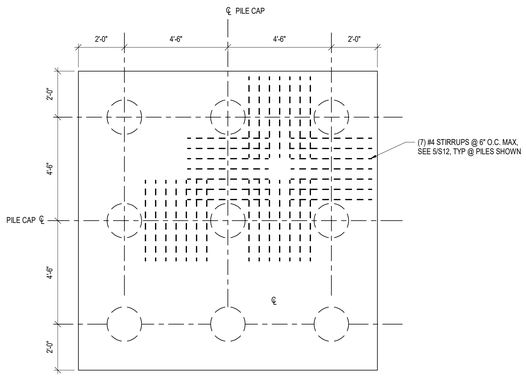
1 PILE CAP GEOMETRY (PC-6C & PC-6D)

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



2 PILE CAP GEOMETRY (PC-6E)

SCALE: N.T.S.



3 PILE CAP GEOMETRY (PC-9A)

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:	RLM
DRAWN BY:	JFS
DESIGNED BY:	JFS

PROJECT NUMBER:
2003-0070-006

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SHEET TITLE:

CONCRETE PILE CAP
TYPICAL DETAILS

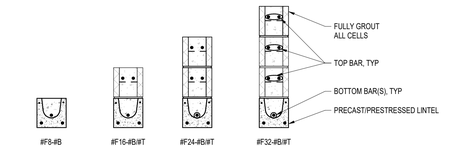
SHEET ID:

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PROJECT STATUS:
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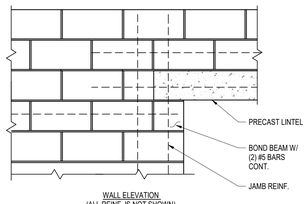
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STANDARD LINTEL SCHEDULE

OPENINGS UP TO 6'-0" (INCLUSIVE)		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8F8-1B	(1) #5 BAR BOTTOM, EXTEND 24" BEYOND EACH SIDE OF OPENING
12" BLOCK	12F8-2B	(2) #6 BARS BOTTOM, EXTEND 24" BEYOND EACH SIDE OF OPENING
OPENINGS 6'-0" TO 12'-0" (INCLUSIVE)		
WALL SIZE	LINTEL TYPE	REMARKS
8" BLOCK	8F16-1B/2T	(1) #5 BAR BOTTOM, (2) #5 BARS TOP, EXTEND 24" BEYOND EACH SIDE OF OPENING
12" BLOCK	12F24-2B/2T	(2) #6 BARS BOTTOM, (2) COURSES W/ (2) #6 BARS TOP, EXTEND 24" BEYOND EACH SIDE OF OPENING
OPENINGS 12'-0" TO 16'-0" (INCLUSIVE)		
WALL SIZE	LINTEL TYPE	REMARKS
12" BLOCK	12F32-2B/2T	(2) #3 BARS BOTTOM, (3) COURSES W/ (2) #6 BARS TOP, EXTEND 24" BEYOND EACH SIDE OF OPENING



WALL ELEVATION
(ALL REINF. IS NOT SHOWN)

NOTES:

1. PRECAST LINTEL BY CAST-CRETE (OR APPROVED EQUAL).
   A. REINFORCEMENT: ASTM A615 GR. 60
   B. WIRE: ASTM A510
   C. CONCRETE STRENGTH:
      8" CMU _____ 4,000 PSI (MIN)
      12" CMU _____ 6,000 PSI (MIN)
2. LINTEL SIZES SHOWN IN SCHEDULE SHALL BE USED UNLESS OTHERWISE NOTED IN PLAN.
3. PROVIDE 8" BEARING EACH SIDE OF OPENING.
4. ALL LINTELS SHALL BEAR ON GROUTED SOLID MASONRY.
5. JAMB REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE LINTEL.

1 TYPICAL PRECAST LINTEL SCHEDULE AND DETAILS

SCALE: N.T.S.

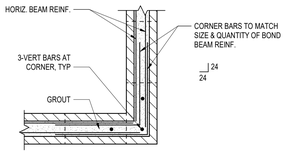
TYPICAL LAP SPLICE SCHEDULE MASONRY

BAR SIZE	LAP SPLICE	OTHER LAP SPLICE
#3	24"	36"
#4	32"	48"
#5	40"	60"
#6	48"	72"

MASONRY LAP SPLICE NOTES:
1. TABULATED VALUES ARE BASED ON INTERNATIONAL BUILDING CODE 2024 NCBC
   a. 2024 NCBC, SECTION 2107.2.1 LAP SPLICES
   b. ALLOWABLE STEEL STRESS: Fs = 32 KSI

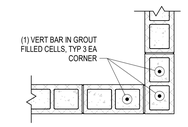
2 MASONRY LAP SPLICES

SCALE: N.T.S.

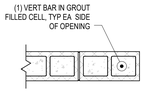


3 CMU BOND BEAM CORNER DETAIL

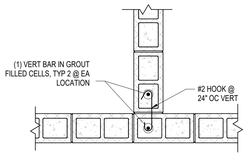
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MASONRY CORNER DETAIL



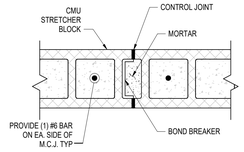
MASONRY END OF WALL DETAIL



MASONRY TEE DETAIL

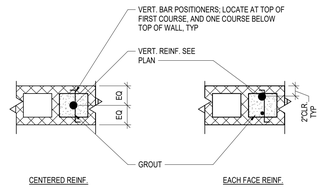
4 MASONRY DETAILS

SCALE: N.T.S.



5 MASONRY CONTROL JOINT DETAIL

SCALE: N.T.S.



6 MASONRY VERT CELL REINF DETAIL

SCALE: N.T.S.



MASONRY JAMB SCHEDULE

OPENING SIZE	JAMB LENGTH	# BARS PER CELL
UP TO 4'-0"	8"	(1) #5
4'-1" TO 6'-0"	16"	(1) #5

7 MASONRY JAMB SCHEDULE

SCALE: N.T.S.

8 TYP MASONRY WALL CONSTRUCTION

SCALE: N.T.S.

NOTES:

1. TYPICAL AT WINDOW OPENINGS, DUCT PENETRATIONS & UTILITY CHASES UNO

9 MASONRY WALL OPENING

SCALE: N.T.S.

10 CMU TO CONCRETE WALL CORNER DETAIL

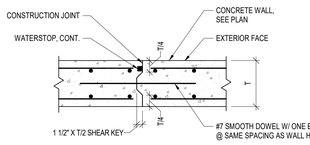
SCALE: N.T.S.

TYPICAL CORNER

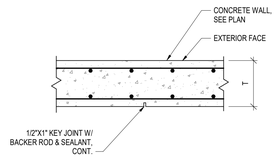
TYPICAL T-INTERSECTION

11 TYPICAL CONCRETE WALL CORNER REINFORCEMENT

SCALE: N.T.S.



WALL CONSTRUCTION JOINT



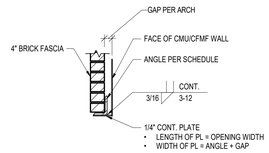
WALL CRACK CONTROL JOINT

NOTES:

1. UNLESS NOTED OTHERWISE ON PLAN, CONTRACTOR SHALL PROVIDE THE LOCATIONS OF THE CONSTRUCTION JOINTS FOR EOR REVIEW

12 CONCRETE WALL CONSTRUCTION JOINT

SCALE: N.T.S.



STANDARD LOOSE LINTEL SCHEDULE

OPENINGS UP TO 6'-0" (INCLUSIVE)		
WALL SIZE	LINTEL TYPE	REMARKS
4" BRICK	L 4X3 1/2XS/16 (LLV)	SINGLE WYTHE ONLY
OPENINGS 6'-0" TO 8'-0" (INCLUSIVE)		
WALL SIZE	LINTEL TYPE	REMARKS
4" BRICK	L 5X3 1/2XS/16 (LLV)	SINGLE WYTHE ONLY
OPENINGS 8'-0" TO 10'-0" (INCLUSIVE)		
WALL SIZE	LINTEL TYPE	REMARKS
4" BRICK	L 6X4X3/8 (LLV)	SINGLE WYTHE ONLY

NOTES:

1. LINTEL SIZES SHOWN IN SCHEDULE MUST BE USED UNLESS OTHERWISE NOTED IN PLAN.
2. PROVIDE 8" BEARING EACH SIDE OF OPENING FOR OPENINGS OF 6'-0" OR LESS,16" BEARING FOR OPENINGS LARGER THAN 6'-0".
3. ALL LINTELS MUST BEAR ON BRICK.

13 TYPICAL BRICK LINTEL SCHEDULE AND DETAIL

SCALE: N.T.S.

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

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SHEET TITLE:
CONCRETE & MASONRY TYPICAL DETAILS

SHEET ID:
S015

PROJECT STATUS:
100% BID SET

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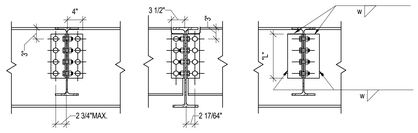
CONNECTION ANGLES

CONN TYPE	ASD LOAD (KIPS)	ULT LOAD (KIPS)	# OF BOLTS	SIZE**	LENGTH	MIN BEAM SIZE
7	167	251	7	L4X3 1/2X3/8	20 1/2	W36
6	143	215	6	L4X3 1/2X3/8	17 1/2	W30 W33
5	104	156	5	L4X3 1/2X5/16	14 1/2	W21 W24 W27
4	83.9	126	4	L4X3 1/2X5/16	11 1/2	W16 W18
3	63.7	95.5	3	L4X3 1/2X5/16	8 1/2	W12 W14
2	40.8	61.2	2	L4X3 1/2X5/16	5 1/2	C8 W8 W10
1	10	10	2	L6X4X3/8	2 1/2	C6 W6

BEAM TO BEAM - BEAM TO COLUMN - BEAM TO EMBED PLATE CONNECTION

NOTES:

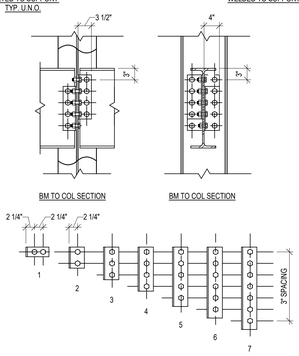
1. BEAM TO BEAM CONNECTION SHOWN, BEAM TO COLUMN & BEAM TO EMBED PLATE CONNECTION SIMILAR.
2. ALL BOLTS MUST BE 3/4"Ø A325 N BEARING TYPE, ALLOWABLE BOLT SHEAR = 11.9 KIPS (SINGLE LOADING).
3. FILLET WELDS MAY BE SUBSTITUTED FOR BOLTS, PROVIDED WELD CAPACITY EQUALS CAPACITY SHOWN IN TABLE.
4. ** TYPICAL UNLESS OTHERWISE NOTED
5. SHOP WELDING MAY BE USED IN LIEU OF SHOP BOLTING. WELDS MUST BE CAPABLE OF RESISTING LOADS SHOWN IN TABLE.
6. CONNECTION ASSUMED TO BE STANDARD SHORT SLOTTED HOLES TRANSVERSE TO DIRECTION OF LOAD. CONTRACTOR TO DESIGN CONNECTION CAPACITY ACCORDING TO AISC STANDARDS FOR OVERSIZED HOLES.
7. SINGLE OR DOUBLE PLATE CONNECTIONS ARE PERMITTED WHERE DOUBLE ANGLES ARE NOT FEASIBLE TO BE INSTALLED. CONTRACTOR TO DESIGN CONNECTION ACCORDING TO THE AISC STANDARDS FOR PLATE CONNECTIONS TO MEET OR EXCEED CAPACITY SHOWN ON TABLE ABOVE.
   A. BEAM TO COLUMN WEB: EXTENDED SHEAR PLATES MUST HAVE STABILIZER PLATES, TOP AND BOTTOM
   B. BEAM TO GIRDER WEB: SHEAR PLATES MUST BE FULL DEPTH
   C. SHEAR PLATE THICKNESS MUST NOT BE LESS THAN 5/16"



BM TO BM ELEVATION BOLTED TO SUPPORT TYP. U.N.O.

BM TO BM SECTION

BM TO BM ELEVATION WELDED TO SUPPORT

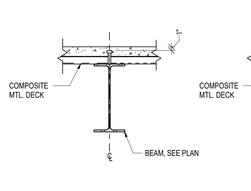


BM TO COL SECTION

BM TO COL SECTION

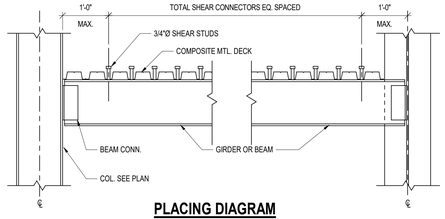
1 TYPICAL BEAM CONNECTION SCHEDULE

SCALE: N.T.S.



BEAM SECTION

GIRDER SECTION



PLACING DIAGRAM

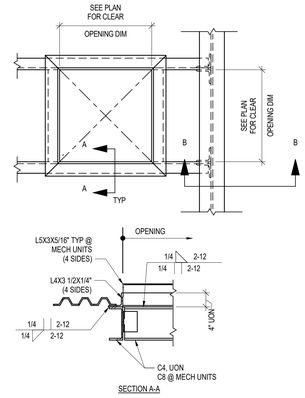
ABOVE DIAGRAM SHOWS STUD PLACEMENT FOR ALL BEAMS AND GIRDERS

NOTES:

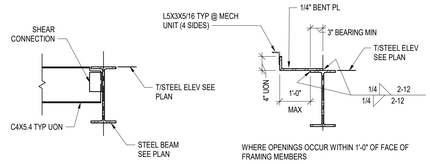
1. ON PLANS COMPOSITE BEAM SIZE IS FOLLOWED BY TOTAL NUMBER OF SHEAR STUDS IN PARENTHESIS.
2. WELDED STUDS MUST BE APPLIED TO TOP FLANGE AND ARE INSTALLED AFTER THE METAL DECK IS IN PLACE (FIELD WELDED).
3. MINIMUM STUD SPACING MUST BE 4 1/2" O.C. PLACE STUDS IN PAIRS ACROSS LENGTH OF GIRDER WHEN REQD TO KEEP STUD SPACING EQUAL TO OR GREATER THAN 4 1/2" O.C.
4. TOP SURFACE OF BEAM FLANGE TO RECEIVE STUDS MUST BE LEFT UNPAINTED.
5. SHEAR STUD LENGTH SHALL BE 1" LESS THAN THEN TOTAL THICKNESS OF FLOOR

2 COMPOSITE BEAM DETAIL

SCALE: N.T.S.



SECTION A-A



SECTION B-B

WHERE OPENINGS OCCUR WITHIN 1'-0" OF FACE OF FRAMING MEMBERS

NOTES:
1. PROVIDE FRAMING AROUND ALL FLOOR OPENINGS GREATER THAN 8"X8" AND ALL ROOF OPENINGS GREATER THAN 6"X6" OR WHERE 2 OR MORE ROOF CORRUGATIONS ARE INTERRUPTED.
2. SEE GENERAL STRUCTURAL NOTE #7
3. CHANNEL FRAMING SHOWN IN SECTION A-A AND B-B IS FOR ROOF OPENINGS. AT FLOOR OPENINGS, PROVIDE C8X11.5 IN LIEU OF C4X5.4 SHOWN.

3 TYPICAL FRAMING @ OPENINGS

SCALE: N.T.S.

NOTE A:
WHERE CONDITION EXISTS WHERE BACKGOUGING IS NOT POSSIBLE, CONTRACTOR MUST INCREASE THE CONTINUITY PLATE THICKNESS AS REQUIRED TO PROVIDE A PJP OF EQUIVALENT DEPTH AS THE CONNECTING BEAM FLANGE THICKNESS

BEAMS SAME DEPTH

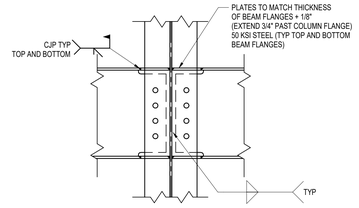
NOTE:
FILLET WELD SIZE "F" AND FILLET WELD SIDE "G" MUST BE 1/16" SMALLER THAN THE PLATE THICKNESS (5/8" MAX)

DEEPER BEAM IN STRONG AXIS OF COLUMN

DEEPER BEAM IN WEAK AXIS OF COLUMN

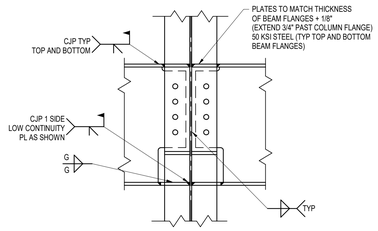
4 TYPICAL BEAM TO COLUMN MOMENT CONNECTIONS

SCALE: N.T.S.



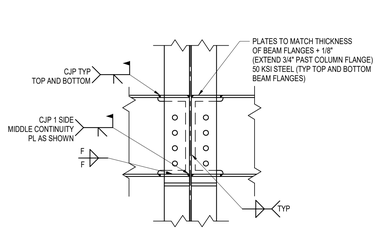
5 TYPICAL BEAMS SAME DEPTH SECTION

SCALE: N.T.S.



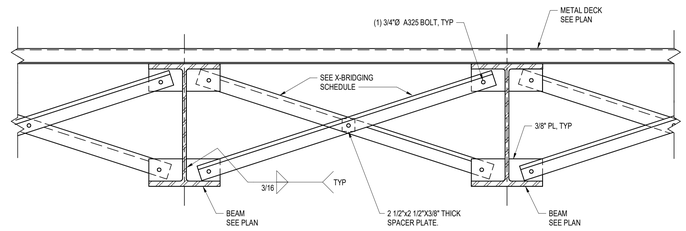
6 TYPICAL DEEPER BEAM SECTION

SCALE: N.T.S.



7 TYPICAL DEEPER BEAM SECTION

SCALE: N.T.S.



X-BRIDGING SCHEDULE		
SPAN LENGTH	ANGLE SIZE	NO. BOLTS
3'-0" TO 5'-0"	L2 1/2X2 1/2X1/4	1
5'-0" TO 10'-0"	L3 1/2X3 1/2X5/16	1
10'-0" TO 15'-0"	L5X5X7/16	2
15'-0" TO 20'-0"	L8X8X5/8	2

8 X-BRACING DETAIL

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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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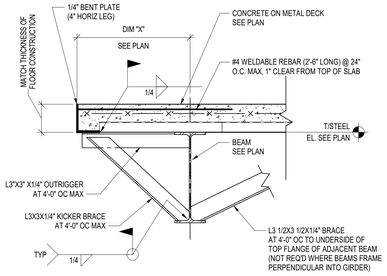
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STEEL TYPICAL DETAILS

SHEET ID:
S021

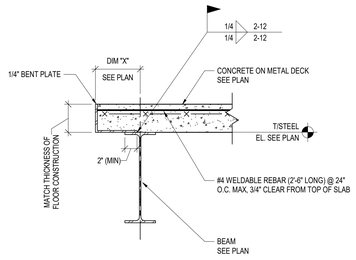
PROJECT STATUS:
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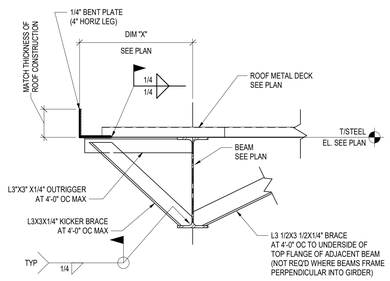
WHERE DIM "X" > 1'-0"



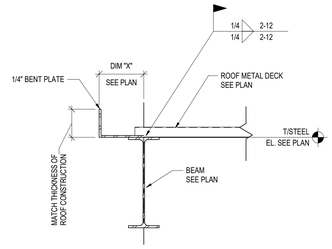
WHERE DIM "X" < 1'-0"

1 TYPICAL FLOOR EDGE SECTION

SCALE: N.T.S.



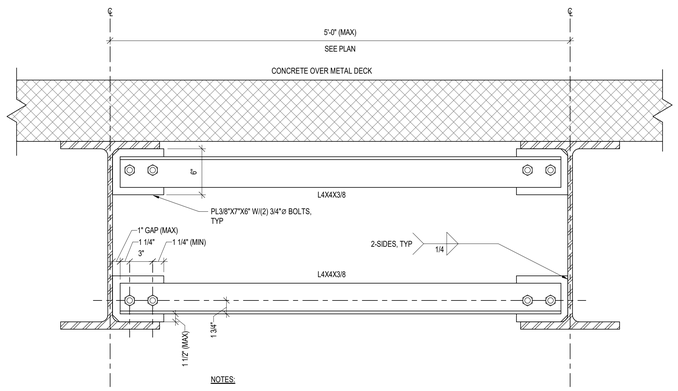
WHERE DIM "X" > 1'-0"



WHERE DIM "X" < 1'-0"

2 TYPICAL ROOF EDGE SECTION

SCALE: N.T.S.

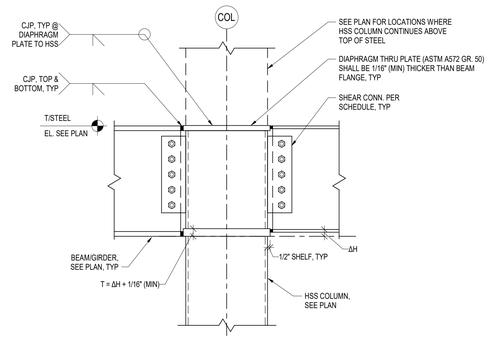


NOTES:

1. SEE PLAN FOR LOCATION OF HORIZONTAL BRACES
2. ALL HOLES SHALL BE STANDARD SIZE (SSL HOLES ARE NOT PERMITTED)

3 TYPICAL HORIZONTAL BRACING DETAIL

SCALE: N.T.S.

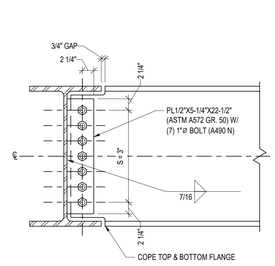


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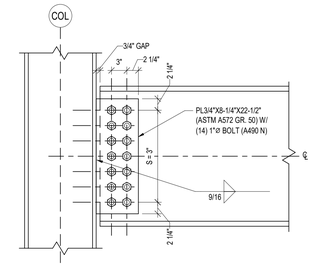
1. AT ROUND HSS COLUMNS IT IS PERMITTED TO CLIP THE CORNERS

4 TYPICAL BEAM HSS COLUMN MOMENT CONNECTION

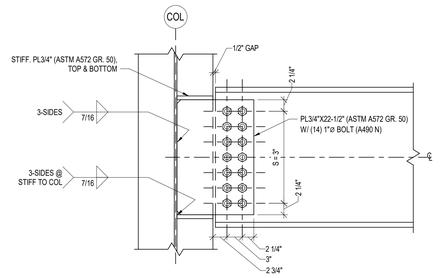
SCALE: N.T.S.



W27 BEAM TO W27 WEB CONNECTION



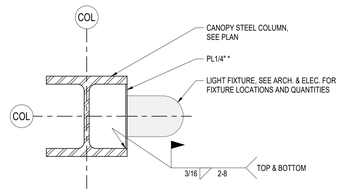
W27 GIRDER TO W14 COL FLANGE CONNECTION



W27 BEAM TO W14 COL WEB CONNECTION

5 TYPICAL TUNNEL-TOP STEEL CONNECTIONS

SCALE: N.T.S.



NOTES:

1. * COORDINATE PLATE SIZE WITH COLUMN AND LIGHT FIXTURE(S)
2. THIS DETAIL IF SCHEMATIC ONLY AND IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO ENSURE ALL INSTANCES ARE ACCOUNTED

6 TYPICAL CANOPY COLUMN LIGHT SUPPORT

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

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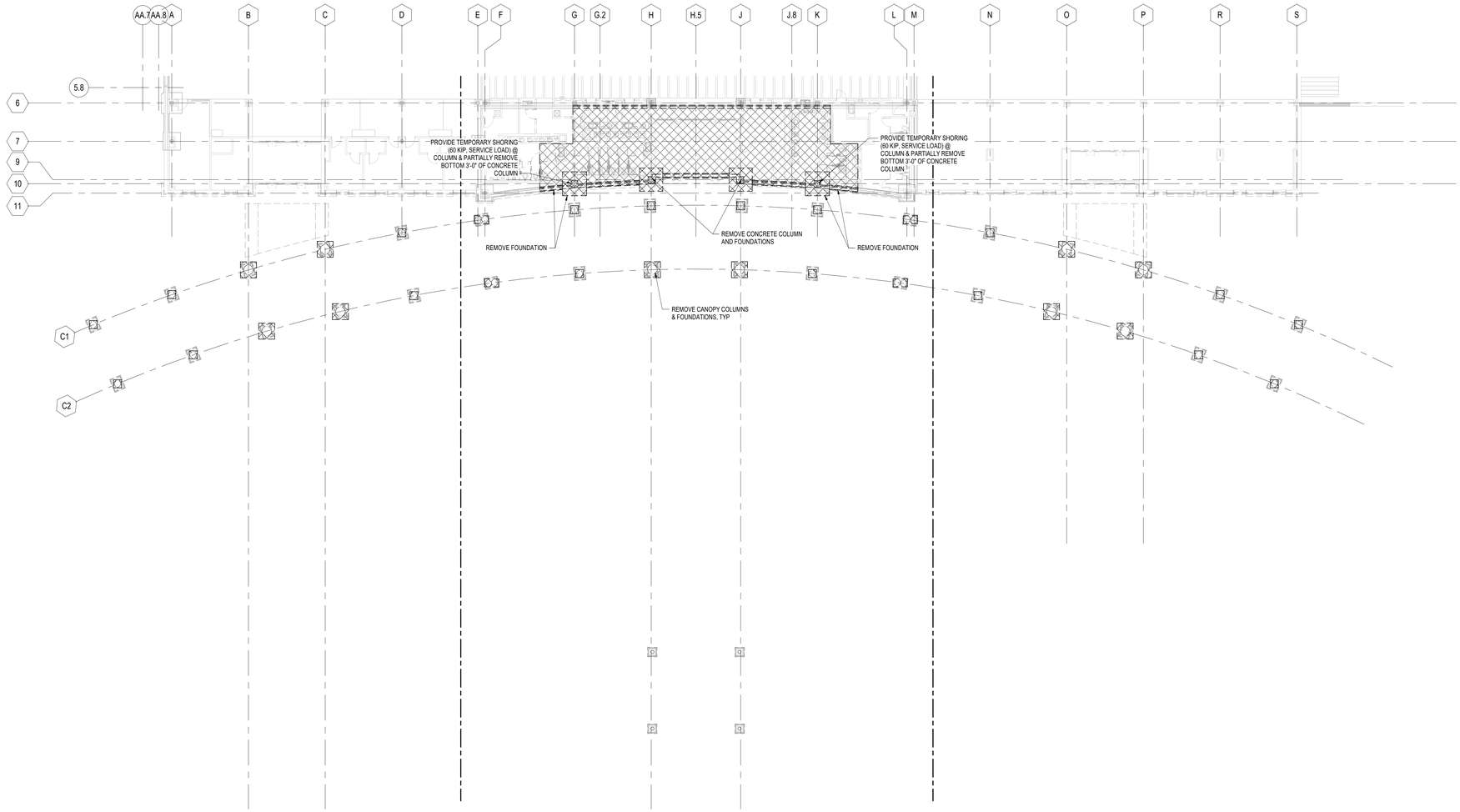
SHEET TITLE:
STEEL TYPICAL DETAILS

SHEET ID:
S022

PROJECT STATUS:
100% BID SET

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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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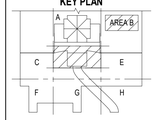
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KEY PLAN



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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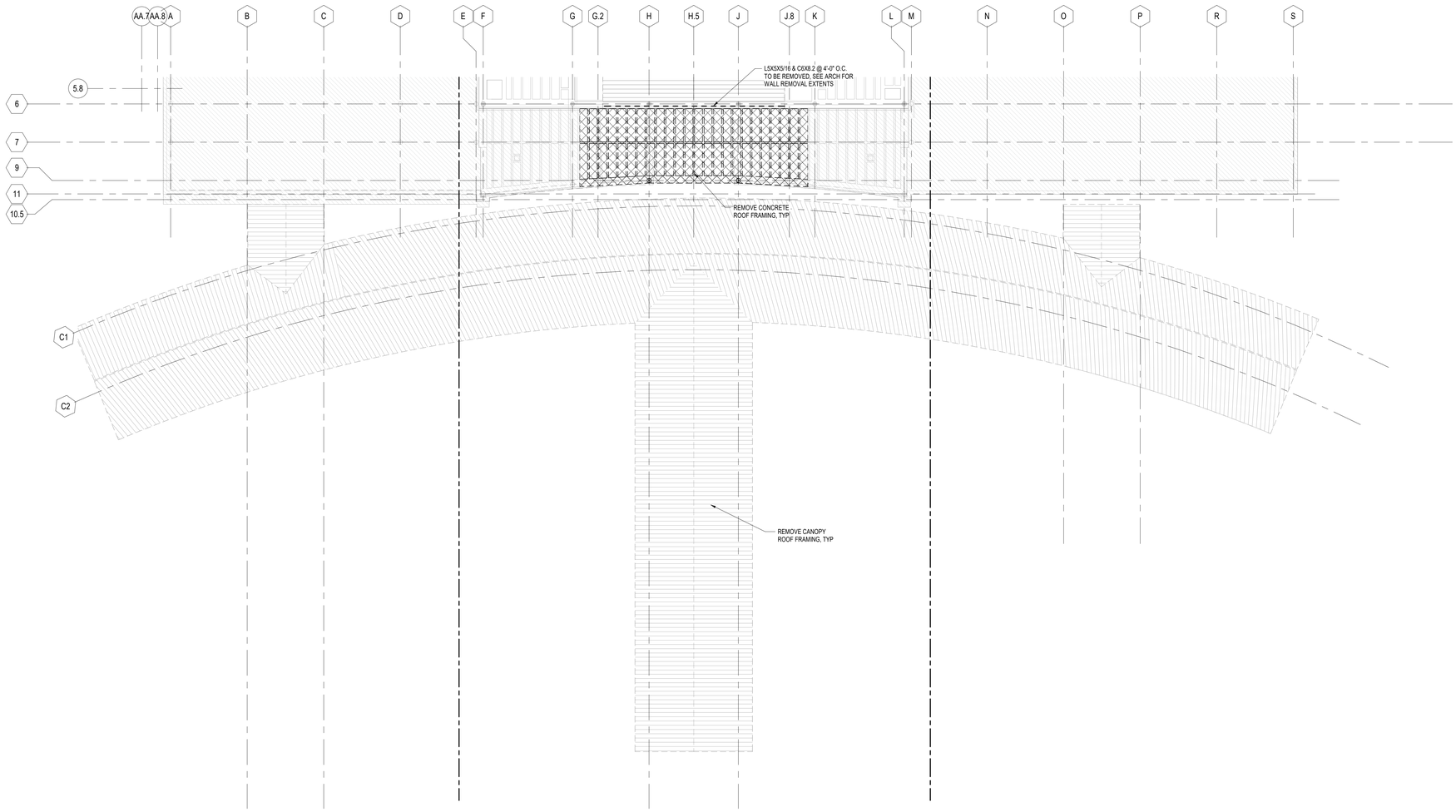
SHEET TITLE:
OVERALL TICKET LEVEL FOUNDATION DEMOLITION PLAN - BID ALTERNATE

SHEET ID:
SD102

PROJECT STATUS:
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PN

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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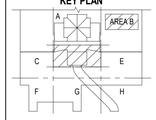
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ILM

PROJECT TITLE:
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:	

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SHEET TITLE:

OVERALL LOW ROOF FRAMING DEMOLITION PLAN

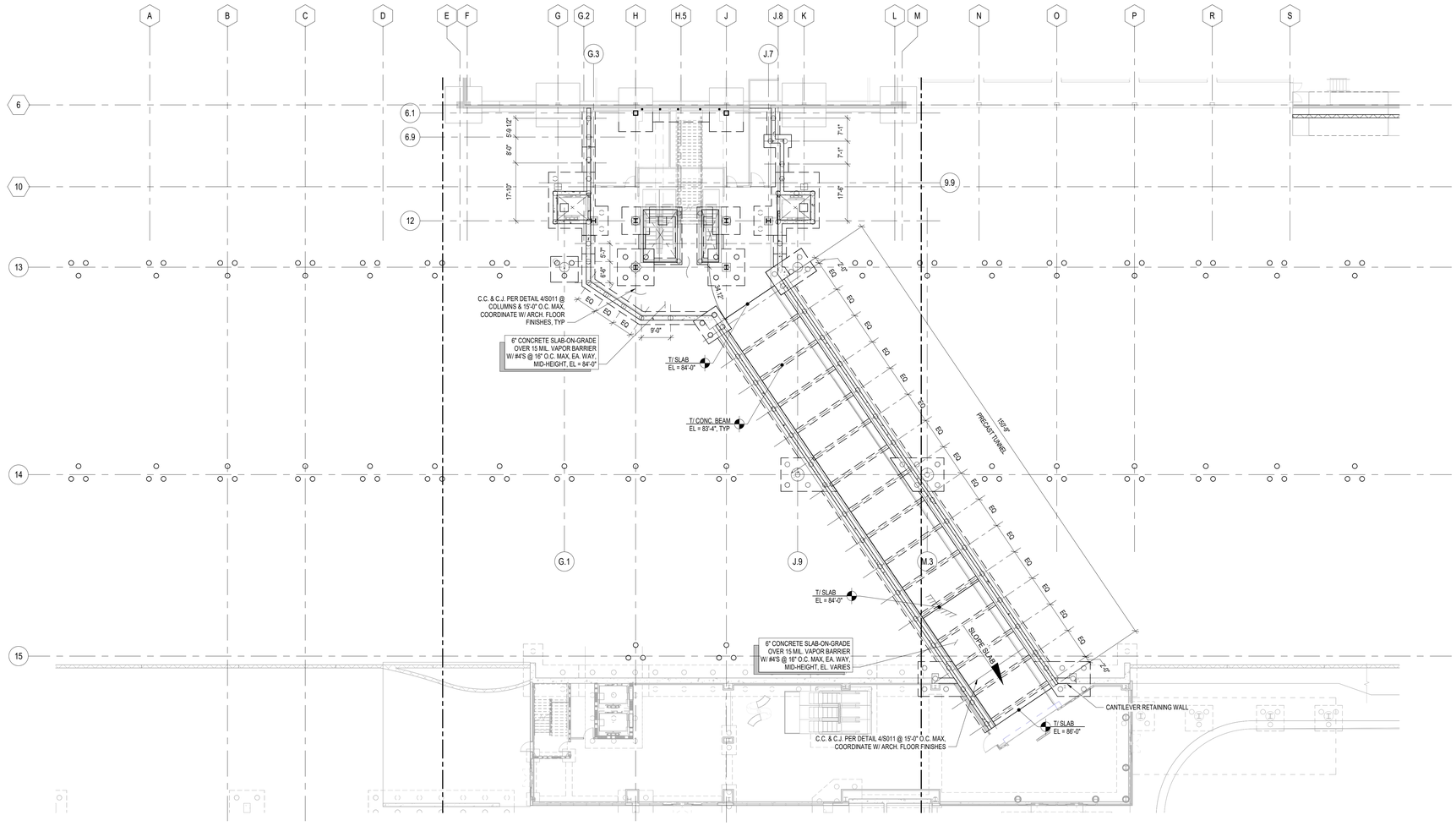
SHEET ID:

SD103

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PN

N

1 OVERALL RAMP LEVEL FOUNDATION 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. 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

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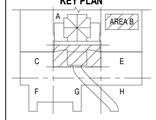
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ILM

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

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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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DESIGNED BY:	JFS
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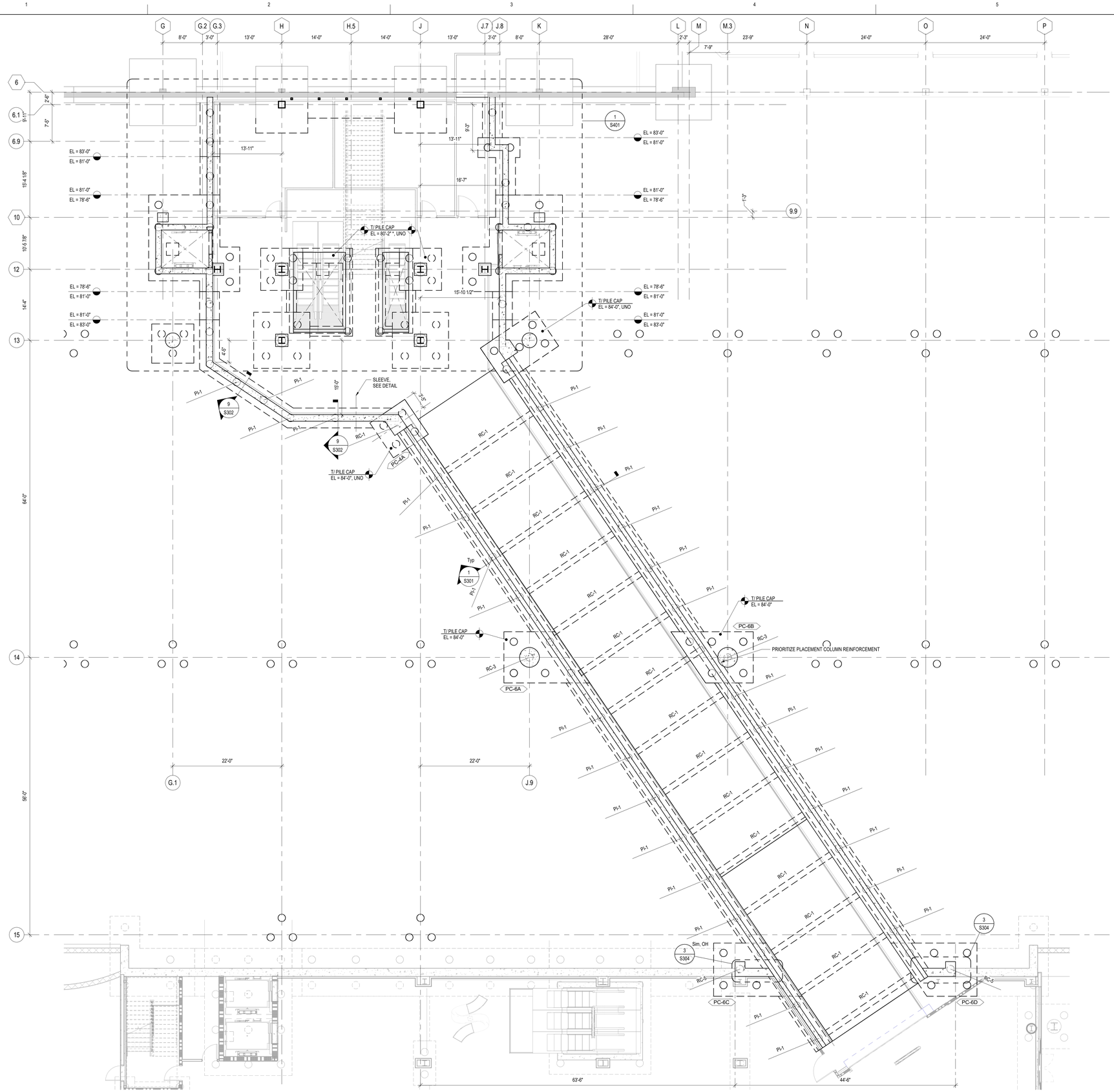
SHEET TITLE:
OVERALL RAMP LEVEL FOUNDATION PLAN

SHEET ID:
S101

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GENERAL SHEET NOTES

FOUNDATION PLAN LEGEND

1. CONCRETE COLUMN — RC-#
2. PILE CAP — PC-#
3. AUGER CAST PILE — Ph-#
4. CMU WALL, SEE MASONRY NOTES FOR SIZE & REINF.
5. FOUNDATION STEP, SEE DETAIL 8/S012
6. REINFORCED CONCRETE BEAM — HIGH ELEV. / LOW ELEV.
7. CAST-IN-PLACE CONCRETE WALL — RC-1
8. STEEL COLUMN, SEE PLAN — W###X## / BP-# PD-#
   - A. SIZE _____ W###X##
   - B. BASE PLATE TYPE _____ BP-#
   - C. PEDESTAL TYPE _____ PD-#

FOUNDATION PLAN NOTES

1. * DIMENSION SHALL BE VERIFIED/COORDINATED WITH ELEVATOR & ESCALATOR EQUIPMENT PROVIDED
2. DO NOT REMOVE TEMPORARY WALL BRACING OR BACKFILL AT CAST-IN-PLACE TUNNEL WALLS UNTIL THE CONCRETE OVER METAL DECK HAS BEEN INSTALLED AND CONCRETE HAS REACHED DESIGN COMPRESSIVE STRENGTH

1 PARTIAL RAMP LEVEL - FOUNDATION PLAN - CONNECTOR

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

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

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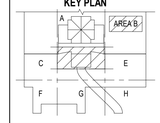
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ILM

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

PROJECT ADDRESS:
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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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SHEET TITLE:
PARTIAL RAMP LEVEL FOUNDATION PLAN - CONNECTOR

SHEET ID:
S105

PROJECT STATUS:
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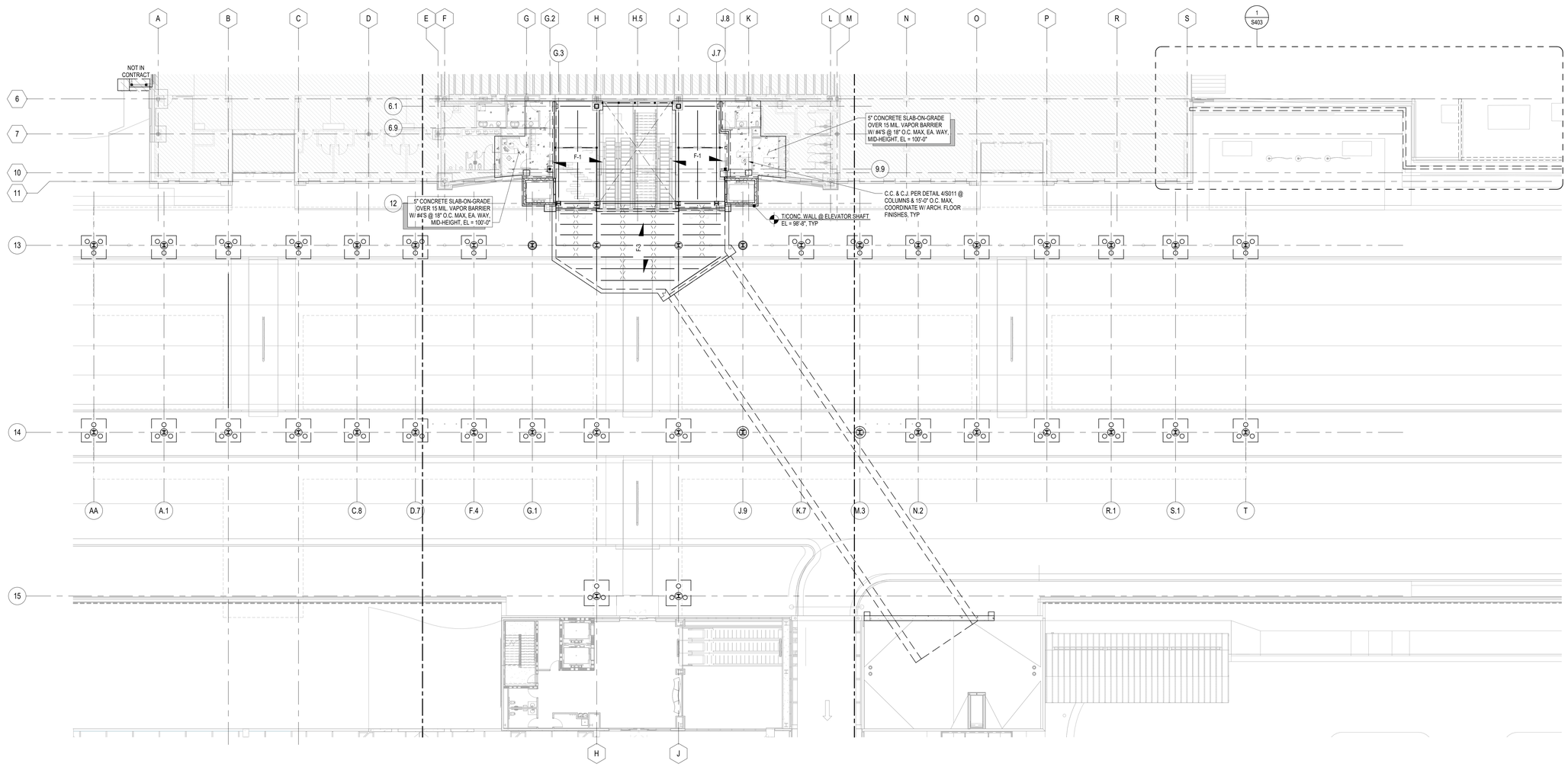
PLAN LEGEND & SHEET NOTES

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-#

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



PN

1 OVERALL TICKET LEVEL FOUNDATION & FRAMING PLAN

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

16 0 16 32

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

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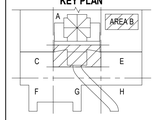
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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 TICKET LEVEL FRAMING & FOUNDATION PLAN

SHEET ID:
S106

PROJECT STATUS:
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1 PARTIAL TICKET LEVEL - FOUNDATION PLAN - AREA A

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

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE DETAIL 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, UNO	
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	

FRAMING PLAN NOTES

1. TOP OF PILE CAP ELEVATION = 97'-0", UNO
2. ALL STEEL & BOTTOM OF METAL DECK SHALL BE PAINTED TO MATCH CANOPY

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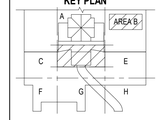
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PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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KEY PLAN



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DESIGNED BY:	JFS
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SHEET TITLE:
PARTIAL TICKETING LEVEL FOUNDATION PLAN

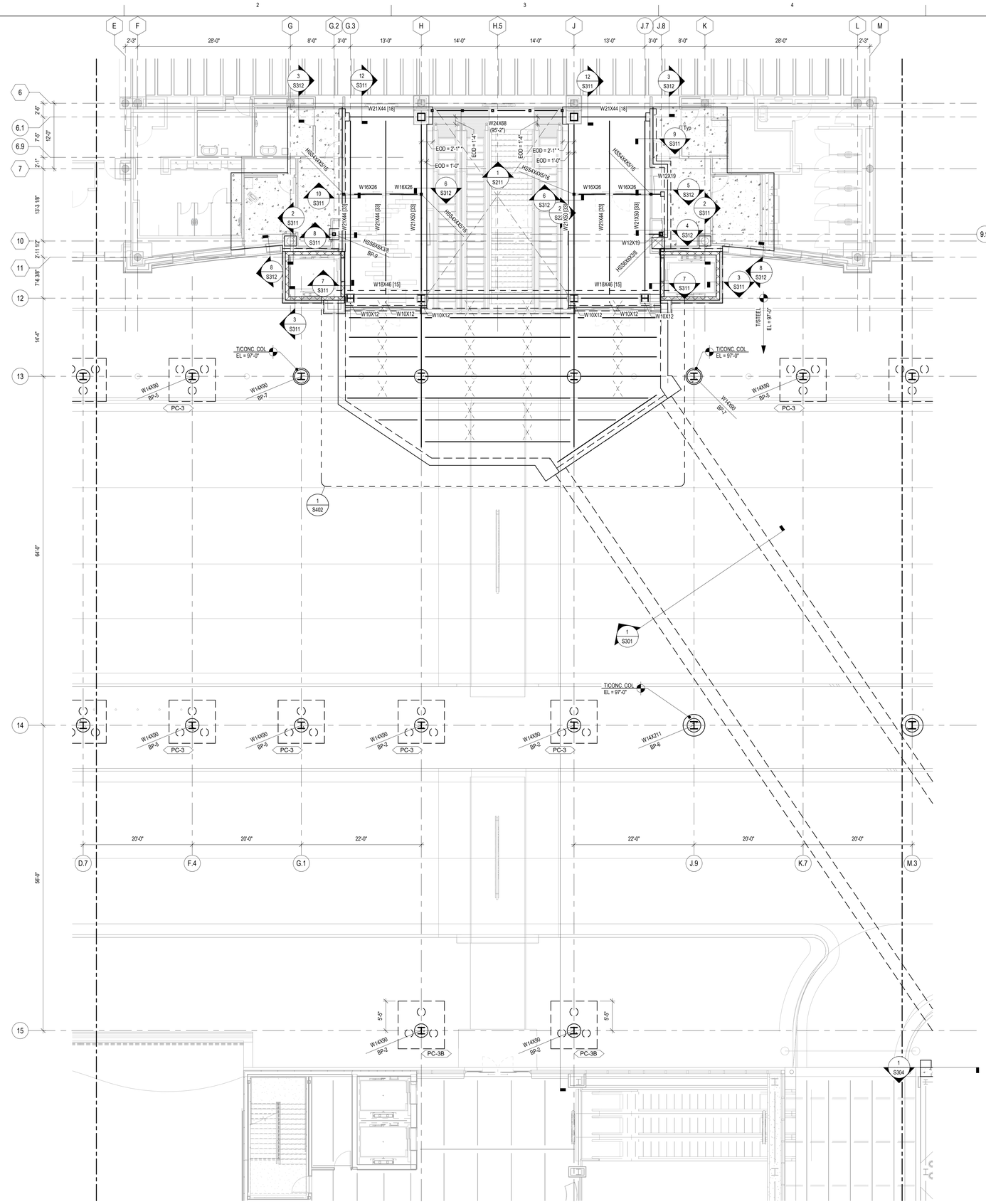
SHEET ID:
S107

PROJECT STATUS:
100% BID SET

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

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PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE DETAIL 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, UNO	
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	

FRAMING PLAN NOTES

1. TOP OF PILE CAP ELEVATION = 97'-0", UNO
2. ALL STEEL & BOTTOM OF METAL DECK SHALL BE PAINTED TO MATCH CANOPY

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

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

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

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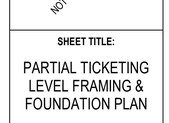
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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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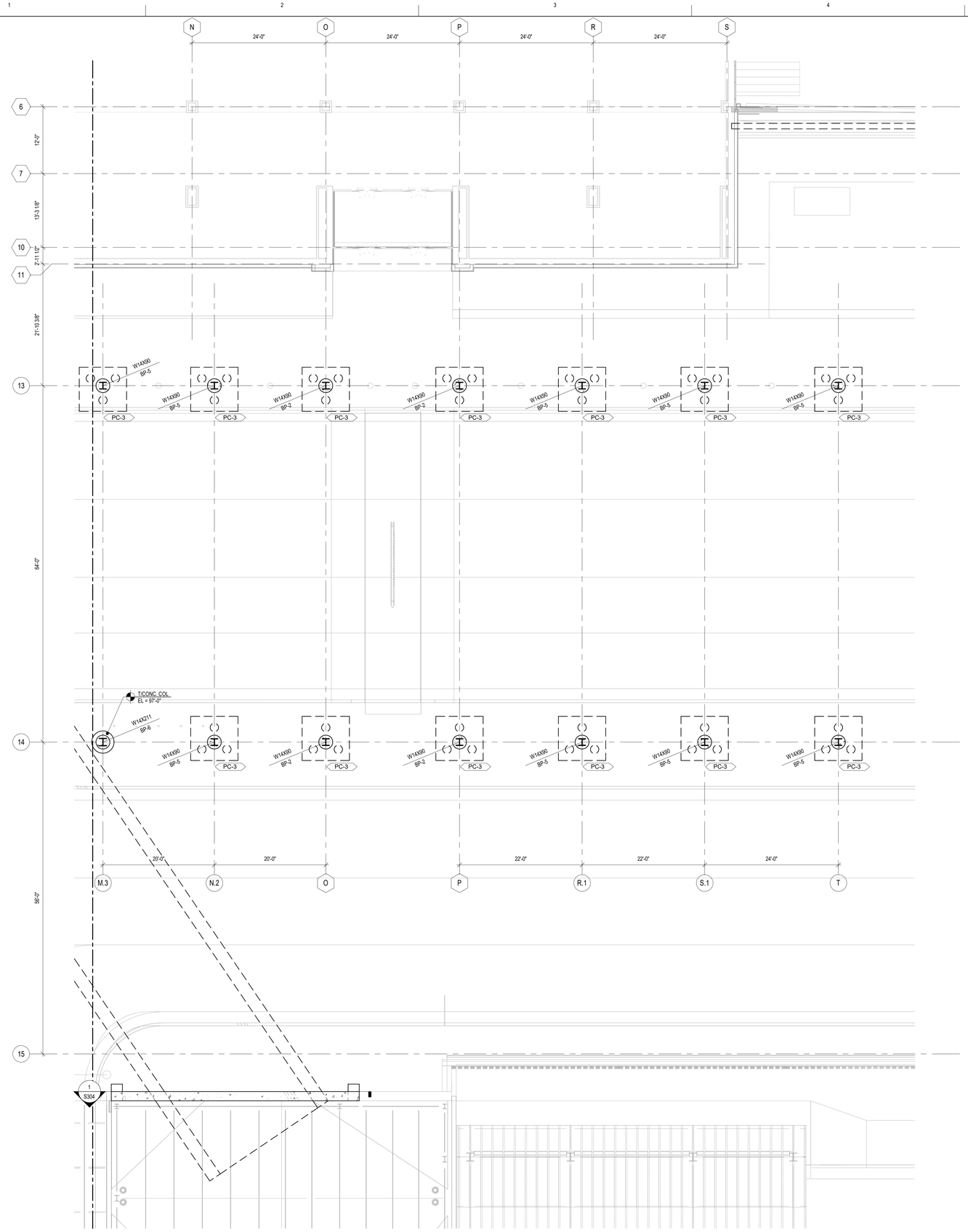
SHEET TITLE:
PARTIAL TICKETING LEVEL FRAMING & FOUNDATION PLAN

SHEET ID:
S108

PROJECT STATUS:
100% BID SET

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1 PARTIAL TICKET LEVEL - FOUNDATION PLAN - AREA C

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

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CONCRETE COLUMN WRAP, SEE DETAIL 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, UNO	
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	

FRAMING PLAN NOTES

1. TOP OF PILE CAP ELEVATION = 97'-0", UNO
2. ALL STEEL & BOTTOM OF METAL DECK SHALL BE PAINTED TO MATCH CANOPY

8 0 8 16

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

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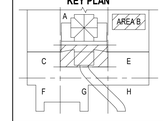
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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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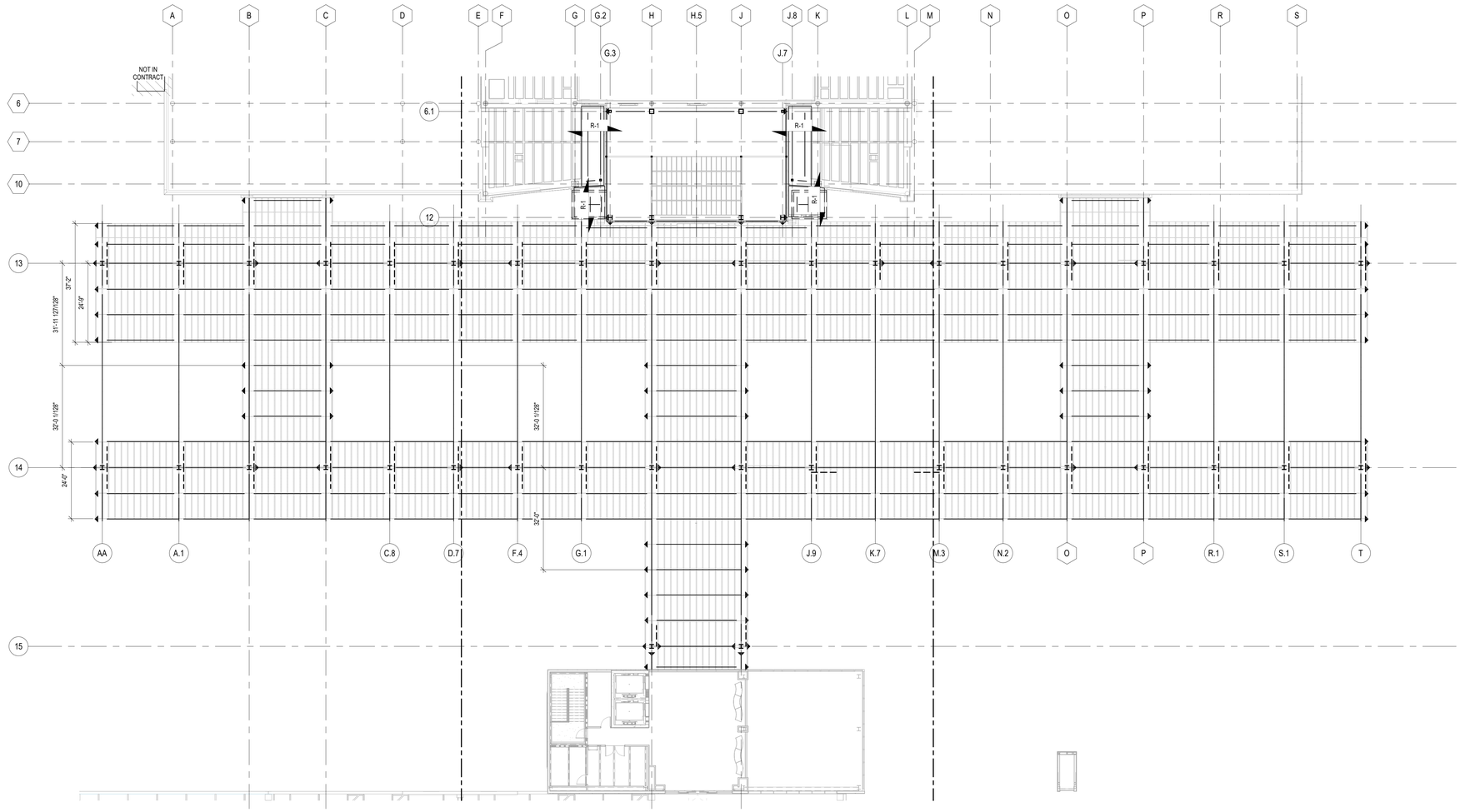
SHEET TITLE:
PARTIAL TICKETING LEVEL FOUNDATION PLAN

SHEET ID:
S109

PROJECT STATUS:
100% BID SET

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PN

N

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. ROOF METAL DECK A. METAL DECK SPAN DIRECTION B. ROOF TYPE _____ R-#	R-#

OVERALL PLAN NOTES

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

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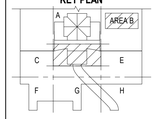
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
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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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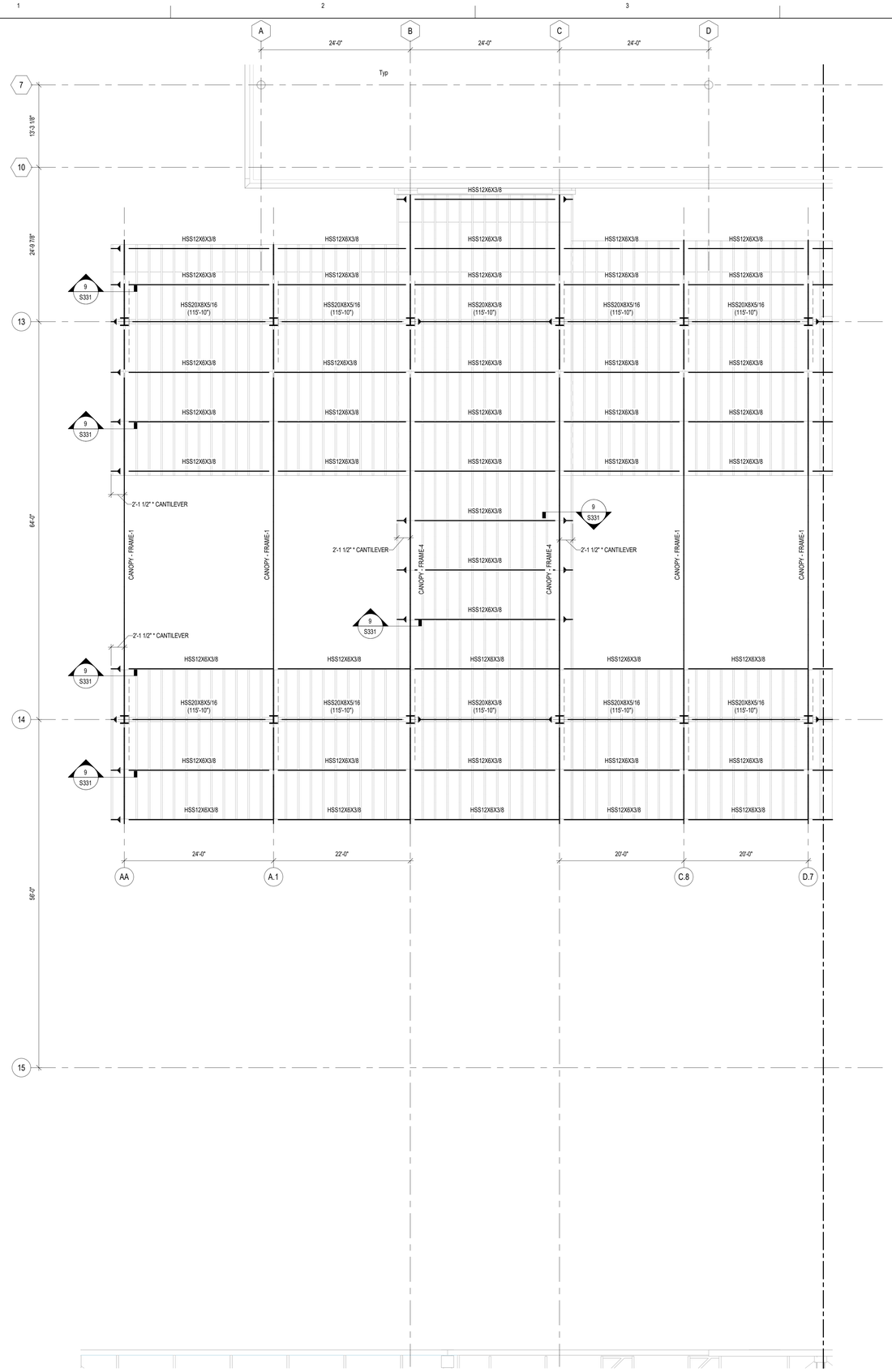
SHEET TITLE:
OVERALL ADMIN & CANOPY ROOF FRAMING PLAN

SHEET ID:
S111

PROJECT STATUS:
100% BID SET

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

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

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION

1. CMU WALL, SEE MASONRY NOTES ON S001
2. FLOOR OPENING
3. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022
4. STEEL FRAMING
   - A. BEAM SIZE _____ W###X##
   - B. SHEAR CONNECTORS _____ [XX]
   - C. POSITIVE CAMBER _____ [XX]
   - D. TOP OF STEEL _____ (####'-#")
5. MOMENT CONNECTION
   - A. W-FLANGE COLUMN _____ 4/S021
   - B. HSS COLUMN _____ 4/S022

SYMBOL

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

FRAMING PLAN NOTES

1. CANOPY STEEL FRAMING:
   - A. FRAME-1 _____ 1/S221
   - B. FRAME-2 _____ 1/S222
   - C. FRAME-3 _____ 2/S222
   - D. FRAME-4 _____ 1 & 2/S223
   - E. FRAME-5 _____ 1/S224
2. * DENOTES COORDINATION REQUIRED WITH ROOF PANEL SYSTEM.

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

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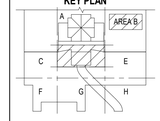
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
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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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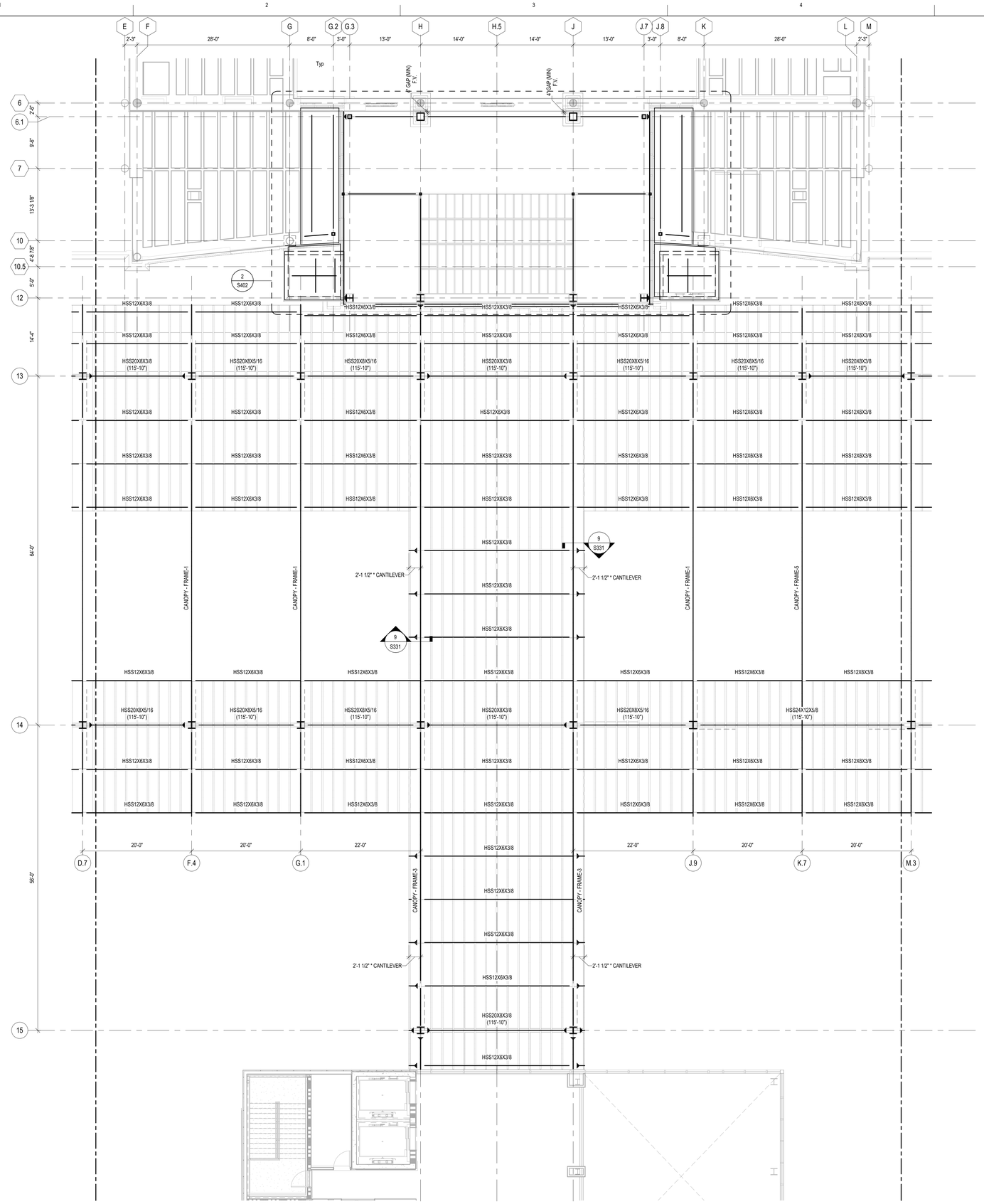
SHEET TITLE:
PARTIAL ADMIN & CANOPY ROOF FRAMING PLAN

SHEET ID:
S112

PROJECT STATUS:
100% BID SET

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PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CMU WALL, SEE MASONRY NOTES ON S001	
2. FLOOR OPENING	
3. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022	
4. STEEL FRAMING A. BEAM SIZE _____ W##X## B. SHEAR CONNECTORS _____ [XX] C. POSITIVE CAMBER _____ [XX] D. TOP OF STEEL _____ (###'-#")	W##X## [XX] [XX] (###'-#")
5. MOMENT CONNECTION A. W-FLANGE COLUMN _____ 4/S021 B. HSS COLUMN _____ 4/S022	

FRAMING PLAN NOTES

1. CANOPY STEEL FRAMING:
   - A. FRAME-1 _____ 1/S221
   - B. FRAME-2 _____ 1/S222
   - C. FRAME-3 _____ 2/S222
   - D. FRAME-4 _____ 1 & 2/S223
   - E. FRAME-5 _____ 1/S224
2. * DENOTES COORDINATION REQUIRED WITH ROOF PANEL SYSTEM.

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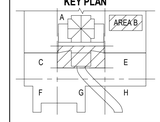
Hartranft Lighting Design

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

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SHEET TITLE:
PARTIAL ADMIN & CANOPY ROOF FRAMING PLAN

SHEET ID:
S113

PROJECT STATUS:
100% BID SET

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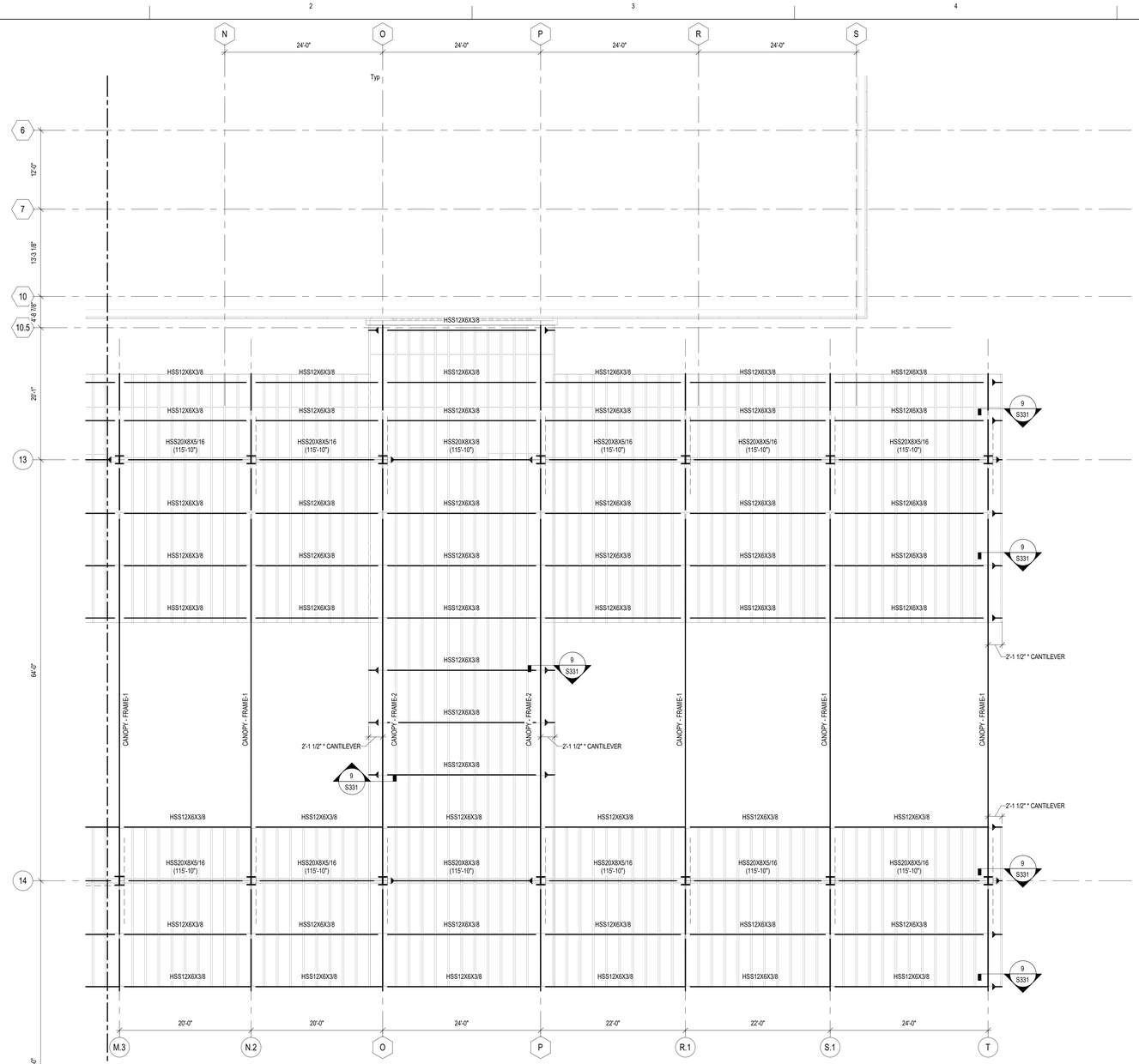
1 PARTIAL ADMIN LEVEL & CANOPY ROOF - FRAMING PLAN PLAN - AREA B

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

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

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

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

PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
1. CMU WALL, SEE MASONRY NOTES ON S001	
2. FLOOR OPENING	
3. BEAM BRACING EVENLY SPACED WITHIN BEAM SPAN, SEE DETAIL 3/S022	
4. STEEL FRAMING A. BEAM SIZE _____ W##X## B. SHEAR CONNECTORS _____ [XX] C. POSITIVE CAMBER _____ [XX] D. TOP OF STEEL _____ (####'-#")	W####X## [XX] [XX] (####'-#")
5. MOMENT CONNECTION A. W-FLANGE COLUMN _____ 4/S021 B. HSS COLUMN _____ 4/S022	

FRAMING PLAN NOTES

1. CANOPY STEEL FRAMING:
   - A. FRAME-1 _____ 1/S221
   - B. FRAME-2 _____ 1/S222
   - C. FRAME-3 _____ 2/S222
   - D. FRAME-4 _____ 1 & 2/S223
   - E. FRAME-5 _____ 1/S224
2. * DENOTES COORDINATION REQUIRED WITH ROOF PANEL SYSTEM.

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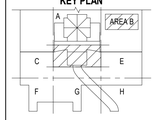
Hartranft Lighting Design

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

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SHEET TITLE:
PARTIAL ADMIN & CANOPY ROOF FRAMING PLAN

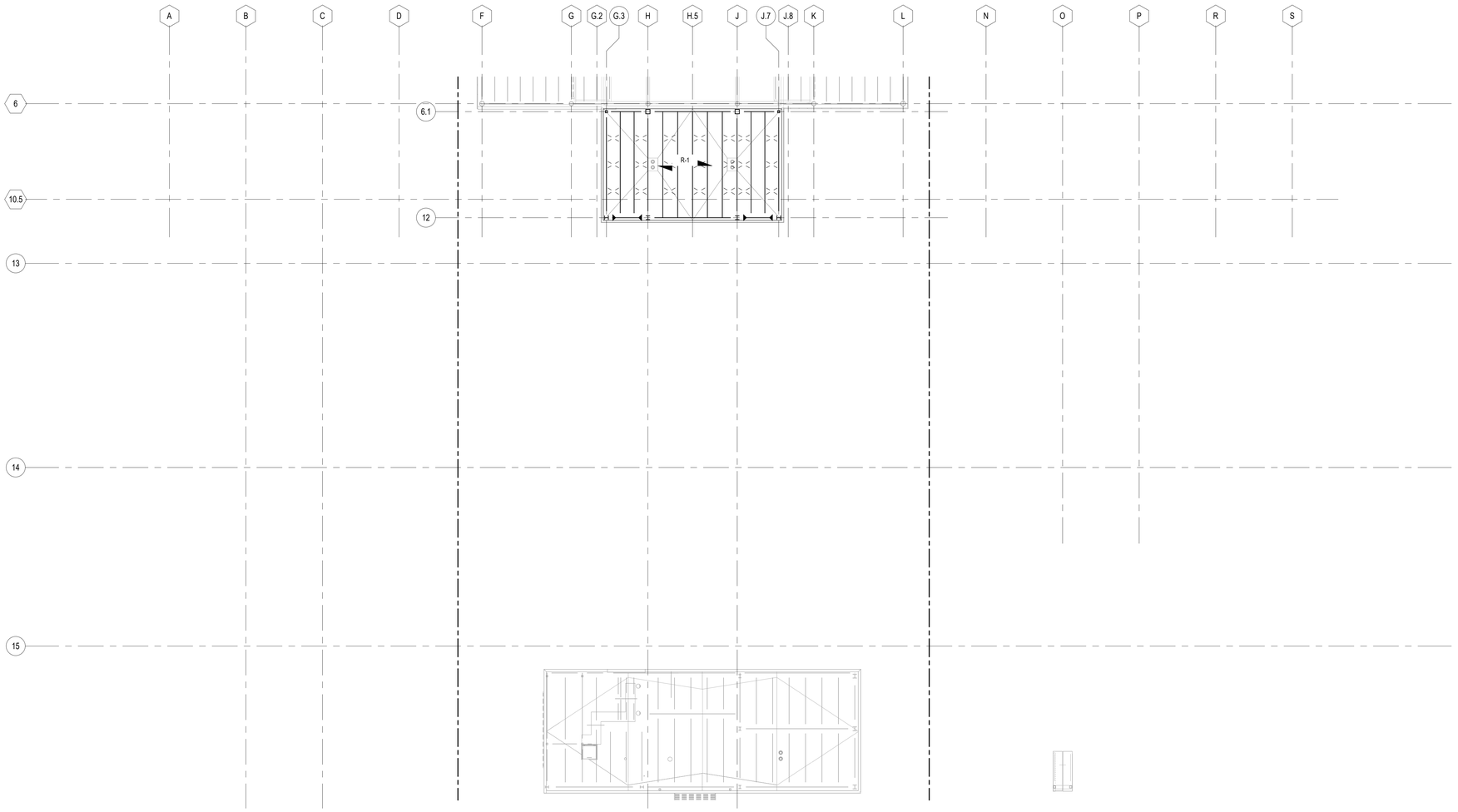
SHEET ID:
S114

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

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PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
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 _____ (###'-#")	W##X## [XX] [XX] (###'-#")
3. MOMENT CONNECTION A. W-FLANGE COLUMN _____ 4/S021 B. HSS COLUMN _____ 4/S022	
4. STEEL TRUSS _____ S201	T#
5. METAL ROOF DECK SPAN DIRECTION A. METAL DECK TYPE _____ R-#, S001	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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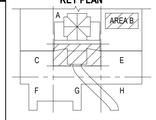
Hartranft Lighting Design

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:	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

PROJECT STATUS:
100% BID SET

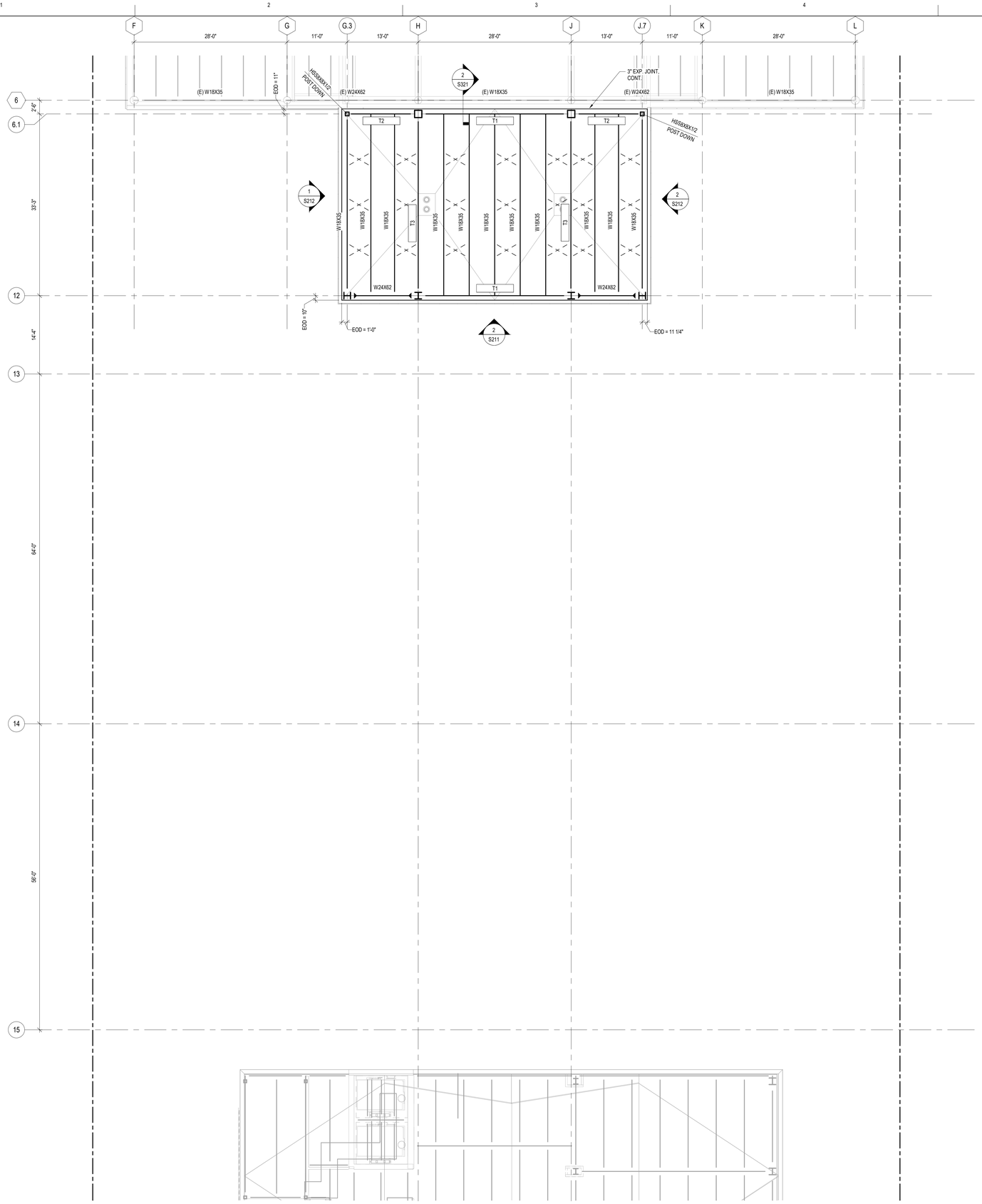
PN
N

1 OVERALL ROOF FRAMING PLAN
SCALE: 1/16" = 1'-0"

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

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PLAN LEGEND & SHEET NOTES

FRAMING PLAN LEGEND

DESCRIPTION	SYMBOL
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 _____ (###'-#")	W##X## [XX] [XX] (###'-#")
3. MOMENT CONNECTION A. W-FLANGE COLUMN _____ 4/S021 B. HSS COLUMN _____ 4/S022	
4. STEEL TRUSS _____ S201	T#
5. METAL ROOF DECK SPAN DIRECTION A. METAL DECK TYPE _____ R-#, S001	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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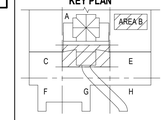
Hartranft Lighting Design

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:	RLM
DRAWN BY:	JFS
DESIGNED BY:	JFS
PROJECT NUMBER:	

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SHEET TITLE:
PARTIAL ROOF FRAMING PLAN

SHEET ID:
S123

PROJECT STATUS:
100% BID SET

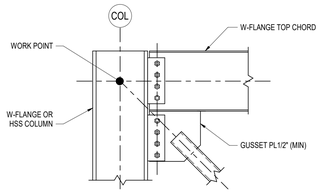
PN
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1 PARTIAL ROOF FRAMING PLAN - AREA B
SCALE: 1/8" = 1'-0"

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

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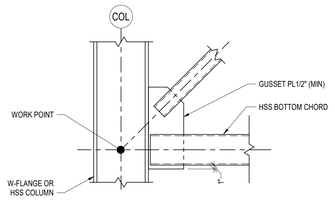


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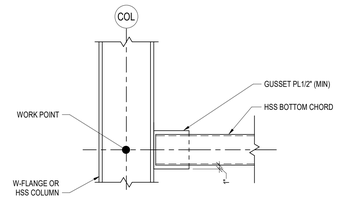
1. THIS SCHEMATIC DETAIL IS FOR REFERENCE ONLY. FINAL DESIGN BY DELEGATED ENGINEER.

4 TYPICAL TRUSS CONNECTION

SCALE: N.T.S.



CONNECTION W/ HSS WEB MEMBER



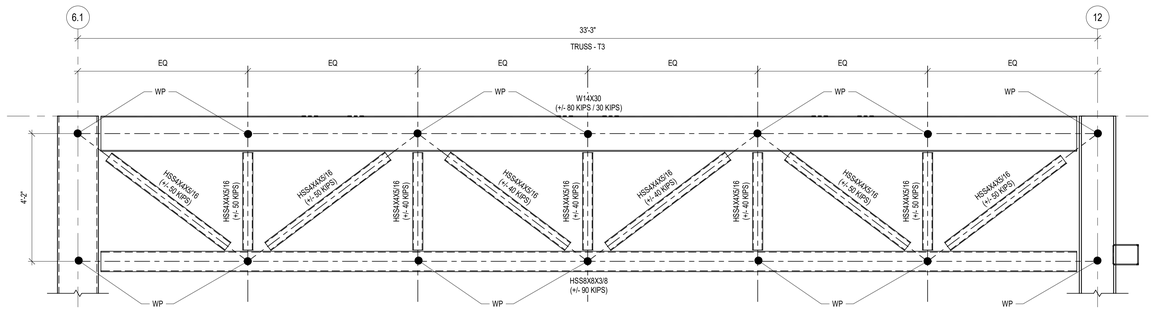
CONNECTION W/O HSS WEB MEMBER

NOTES:

1. THIS SCHEMATIC DETAIL IS FOR REFERENCE ONLY. FINAL DESIGN BY DELEGATED ENGINEER.

5 TYPICAL TRUSS CONNECTION

SCALE: N.T.S.



NOTES:

1. ALL TRUSS CONNECTIONS SHALL BE DESIGNED BY STEEL MANUFACTURER/ERECTOR, SEE DEFERRED SUBMITTAL NOTES ON S001 AND TYPICAL SCHEMATIC DETAIL 3/S201, 4/S201 & 5/S201.
2. ALL TRUSS 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/SHEAR LOADS PROVIDED (+/- ## KIPS / ## KIPS) ARE PER THE CONTROLLING NCBC 2024 LRFD LOAD COMBINATIONS
4. TOP & BOTTOM CHORD END SHEAR LOAD DO NOT INCLUDE THE LOAD FROM THE WEB MEMBERS
5. SPLICES ARE NOT PERMITTED
6. ALL STRUCTURAL COMPONENTS ARE NOT SHOWN FOR CLARITY

2 TRUSS ELEVATION (T3)

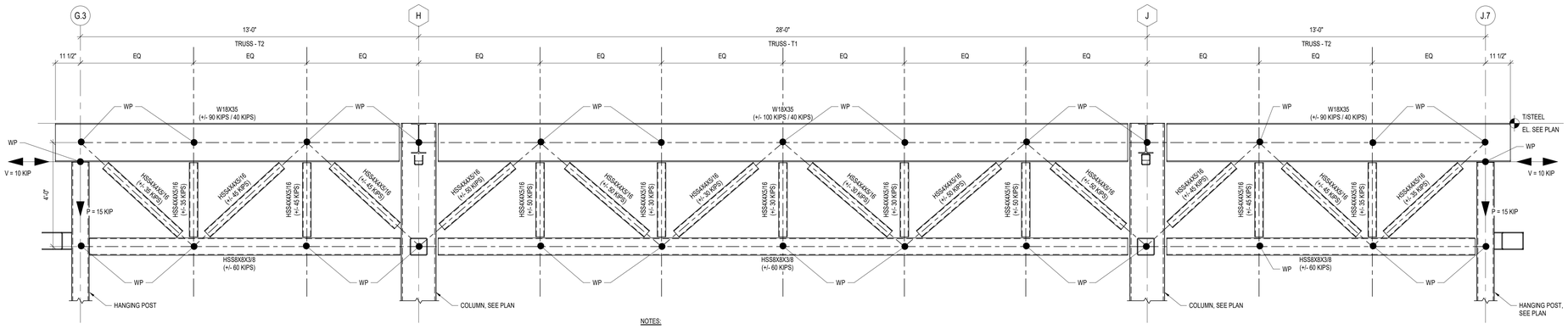
SCALE: 1/2" = 1'-0"

NOTES:

1. THIS SCHEMATIC DETAIL IS FOR REFERENCE ONLY. FINAL DESIGN BY DELEGATED ENGINEER.

3 TYPICAL TRUSS CONNECTION

SCALE: N.T.S.



NOTES:

1. ALL TRUSS CONNECTIONS SHALL BE DESIGNED BY STEEL MANUFACTURER/ERECTOR, SEE DEFERRED SUBMITTAL NOTES ON S001
2. ALL TRUSS 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/SHEAR LOADS PROVIDED (+/- ## KIPS / ## KIPS) ARE PER THE CONTROLLING NCBC 2024 LRFD LOAD COMBINATIONS
4. TOP & BOTTOM CHORD END SHEAR LOAD DO NOT INCLUDE THE LOAD FROM THE WEB MEMBERS
5. SPLICES ARE NOT PERMITTED
6. ALL STRUCTURAL COMPONENTS ARE NOT SHOWN FOR CLARITY

1 TRUSS ELEVATION (T1 & T2)

SCALE: 1/2" = 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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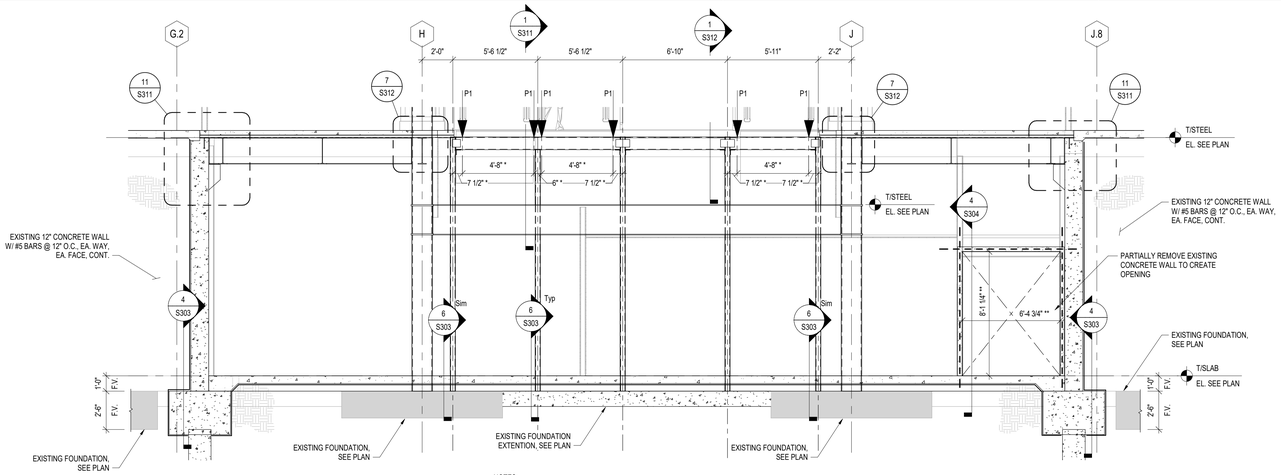
SHEET TITLE:
TRUSS ELEVATION

SHEET ID:
S201

PROJECT STATUS:
100% BID SET

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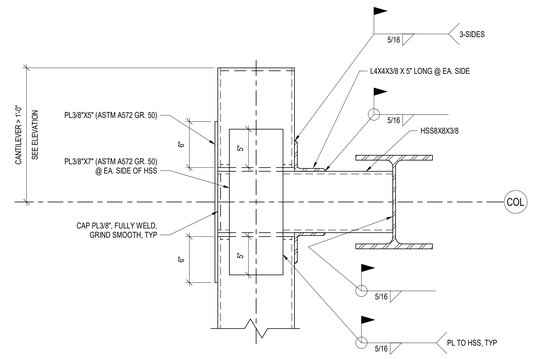


NOTES:

1. * DENOTES DIMENSIONS TO BE COORDINATED/VERIFIED WITH EQUIPMENT PROVIDED
2. ESCALATOR EQUIPMENT:
   A. P1 - 10,000 LBS (MAX) AT EACH TRUSS BEARING LOCATION
3. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, REFERENCE PLANS AND DETAILS ACCORDINGLY
4. ** DENOTES COORDINATION REQUIRED WITH ARCH. DRAWINGS

1 PARTIAL BUILDING ELEVATION @ EXISTING BASEMENT WALL

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

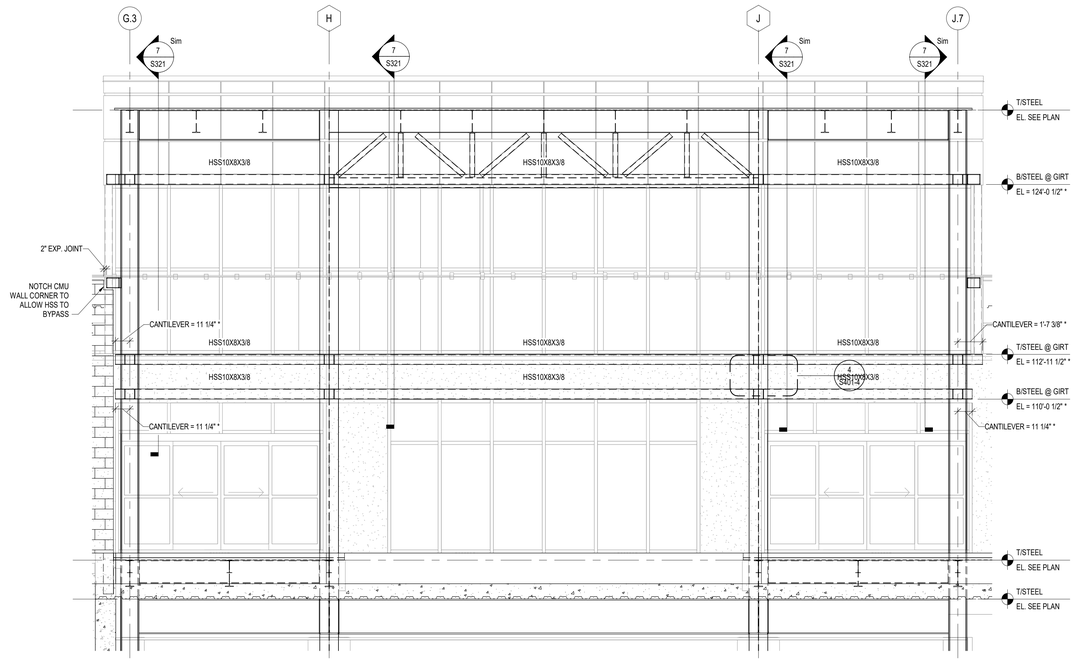


NOTES:

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

5 TYPICAL GIRT CONNECTION @ CANTILEVER

SCALE: N.T.S.

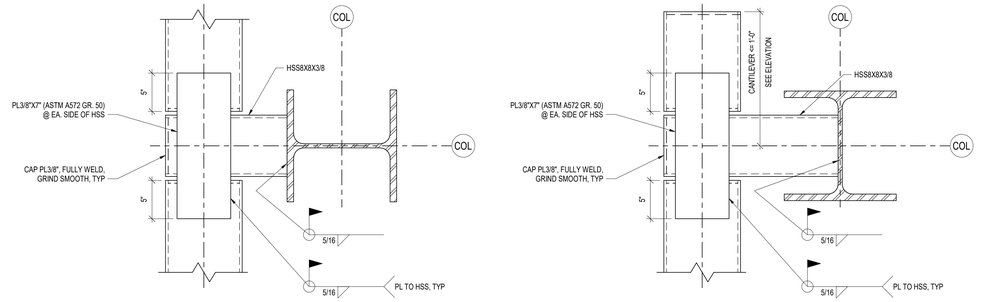


NOTES:

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

2 PARTIAL BUILDING ELEVATION @ NEW EXTERIOR WALL

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

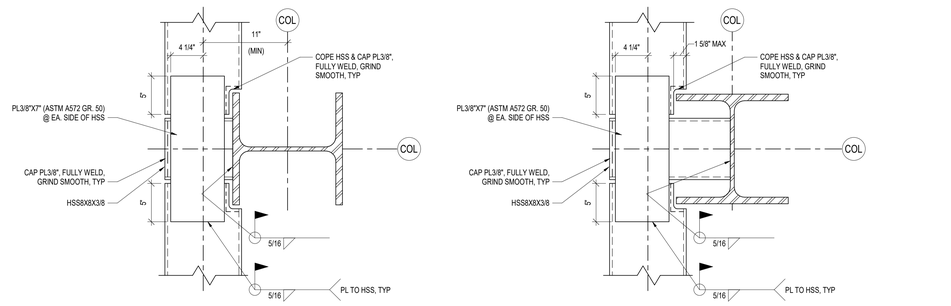


NOTES:

1. GAP BETWEEN MEMBERS SHALL NOT EXCEED 1/2"
2. FOR CANTILEVERS GREATER THAN 1'-0" CANTILEVER, SEE 5/S211

3 TYPICAL GIRT CONNECTION

SCALE: N.T.S.



NOTES:

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

4 TYPICAL GIRT CONNECTION

SCALE: N.T.S.

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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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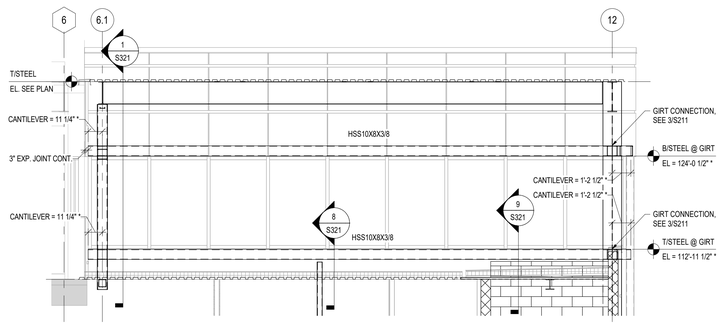
SHEET TITLE:
PARTIAL BUILDING ELEVATIONS

SHEET ID:
S211

PROJECT STATUS:
100% BID SET

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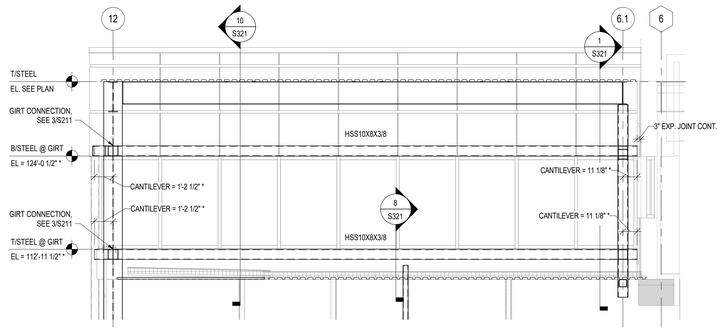


NOTES:

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

2 PARTIAL BUILDING ELEVATION @ NEW EXTERIOR WALL

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

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ILM

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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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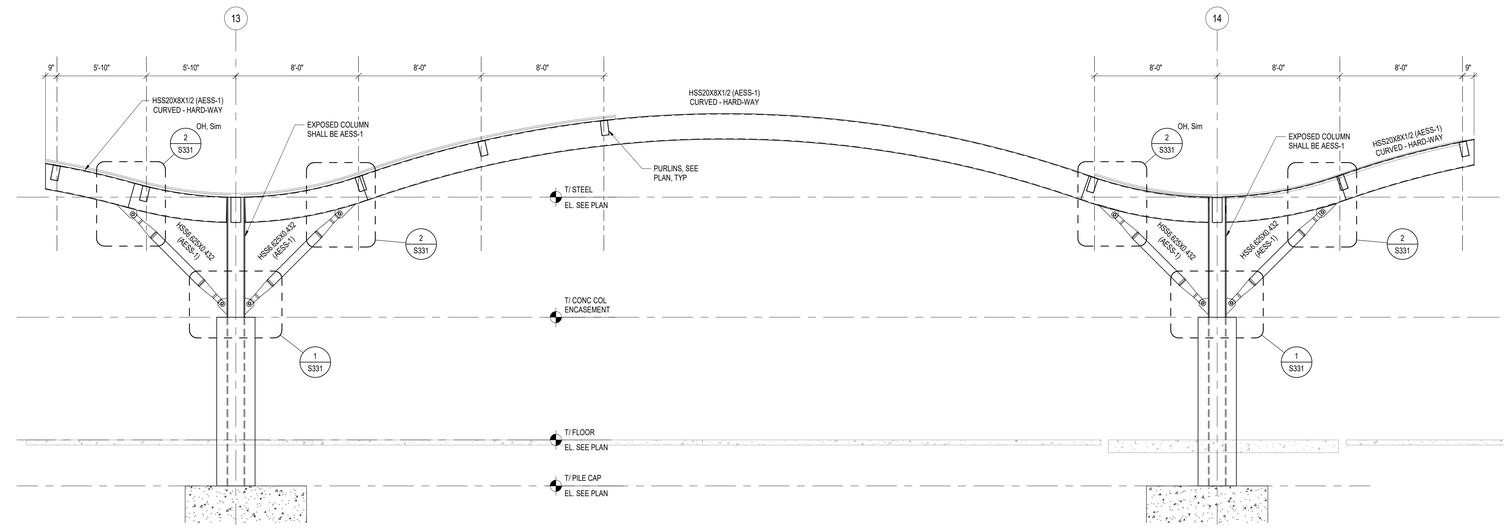
SHEET TITLE:
PARTIAL BUILDING ELEVATIONS

SHEET ID:
S212

PROJECT STATUS:
100% BID SET

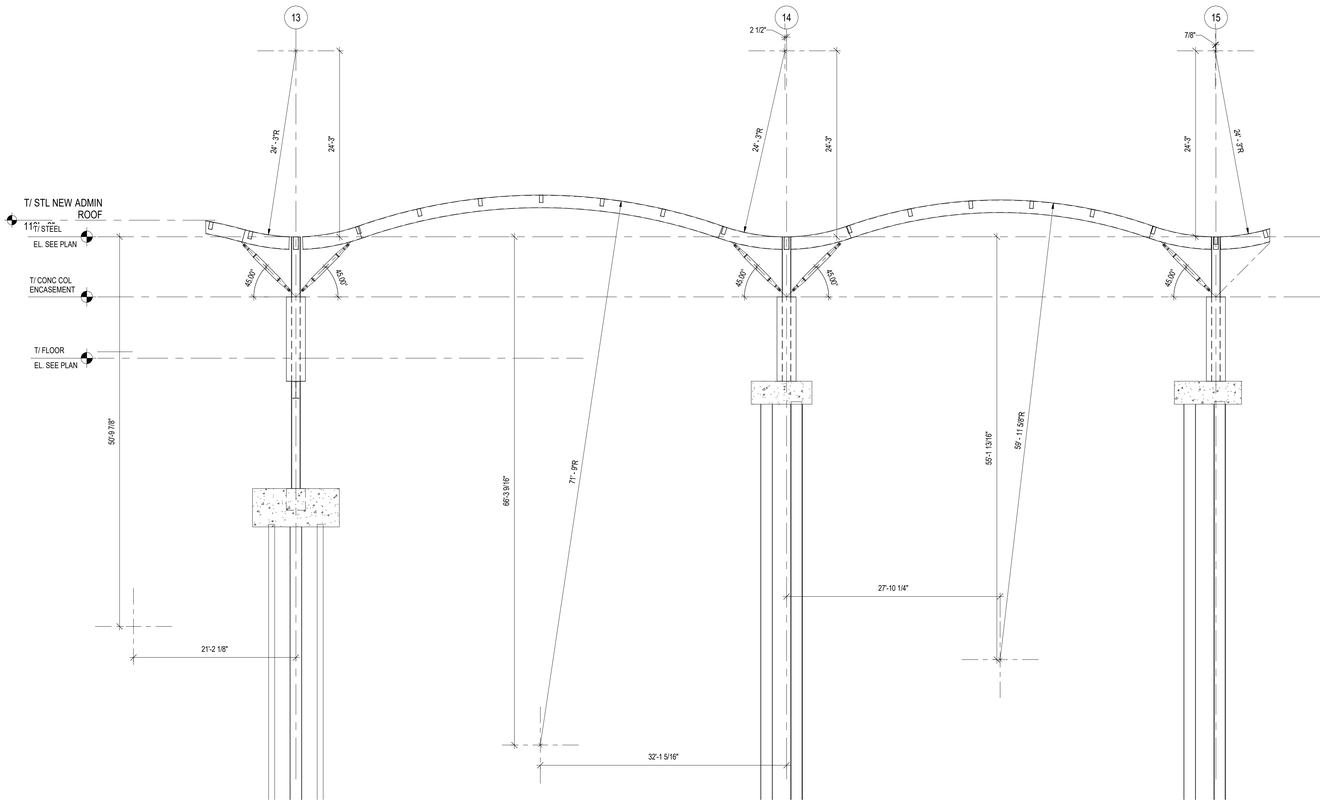
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1 CANOPY FRAME ELEVATION - FRAME-1

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



2 CANOPY FRAME ELEVATION - TYPICAL GEOMETRY

SCALE: 1/8" = 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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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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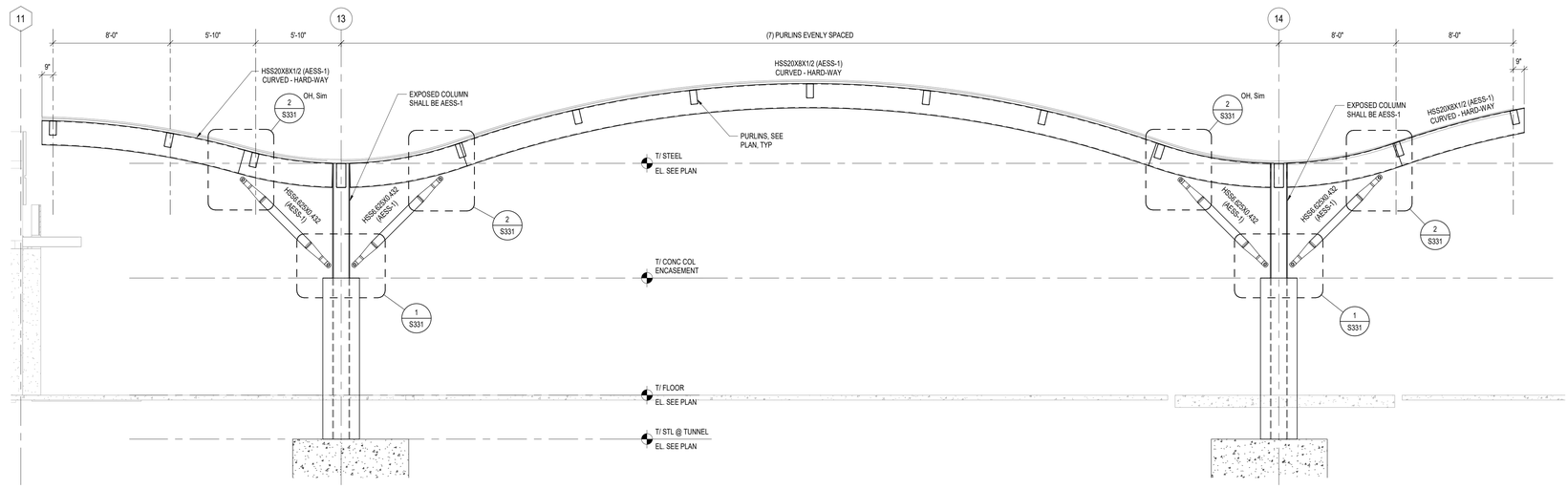
SHEET TITLE:
CANOPY FRAMING ELEVATIONS

SHEET ID:
S221

PROJECT STATUS:
100% BID SET

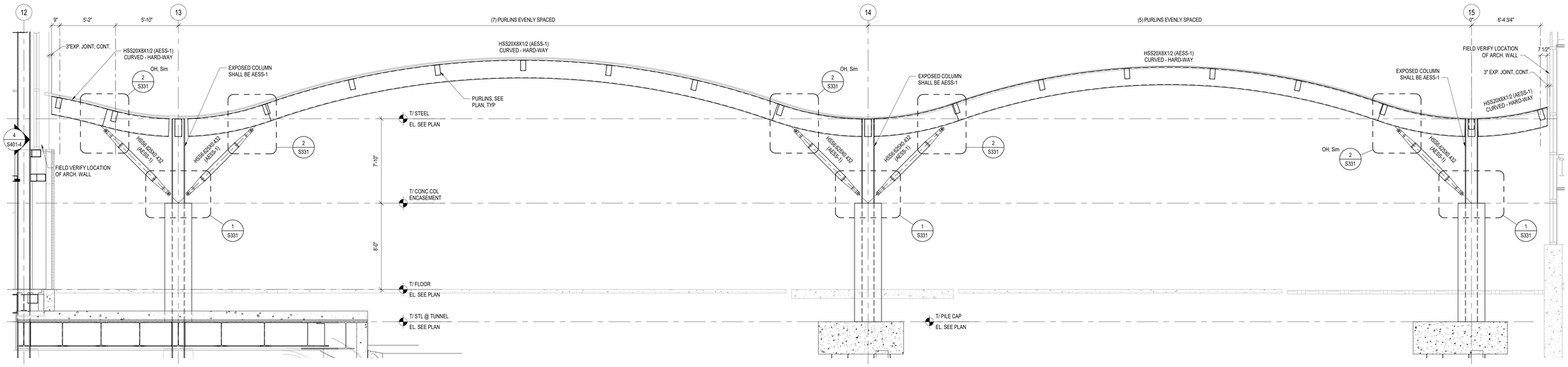
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1 CANOPY FRAME ELEVATION - FRAME-2

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



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

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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SHEET TITLE:

CANOPY FRAMING ELEVATIONS

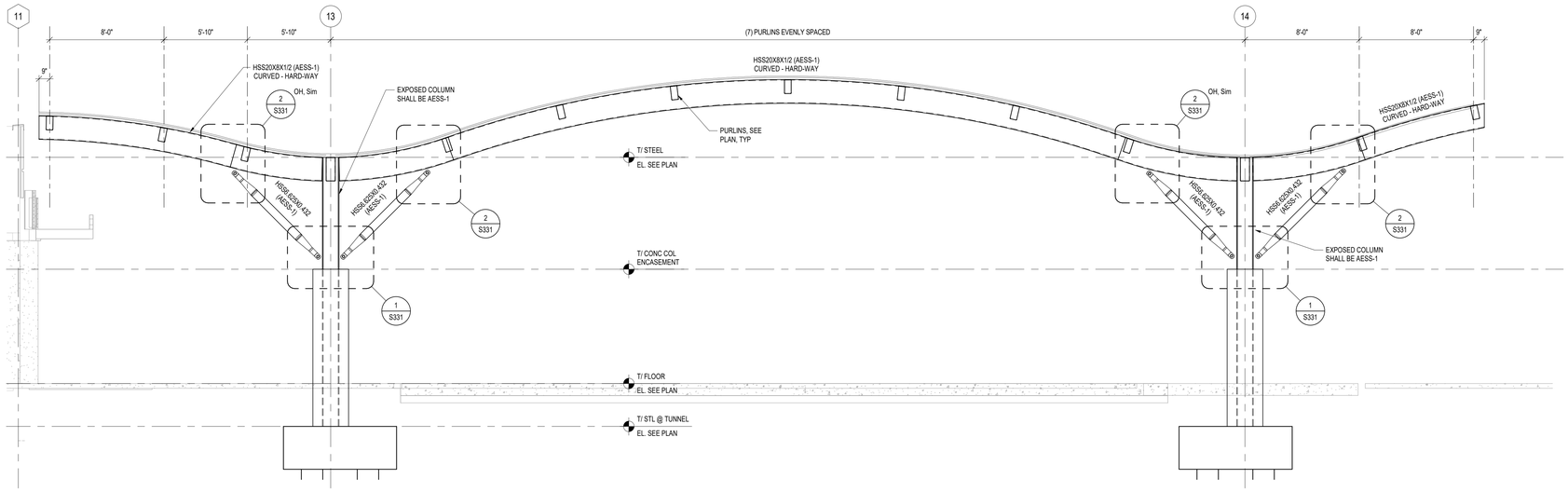
SHEET ID:

S222

PROJECT STATUS:
100% BID SET

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1 CANOPY FRAME ELEVATION - FRAME-4

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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1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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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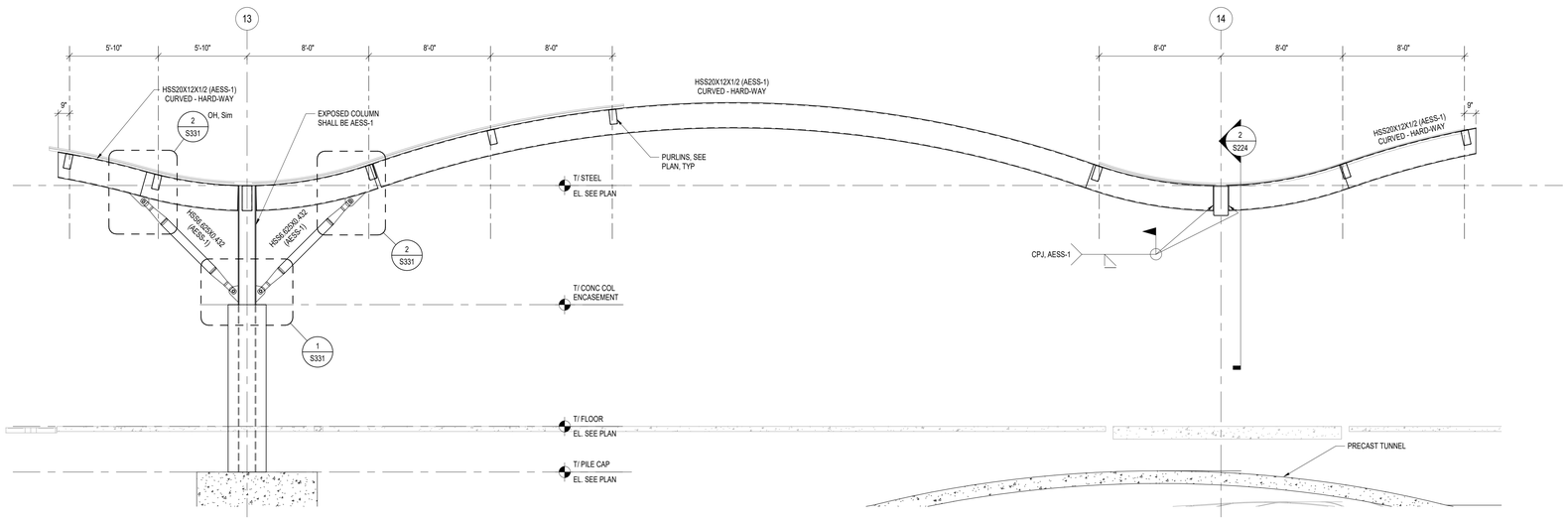
SHEET TITLE:
CANOPY FRAMING ELEVATIONS

SHEET ID:
S223

PROJECT STATUS:
100% BID SET

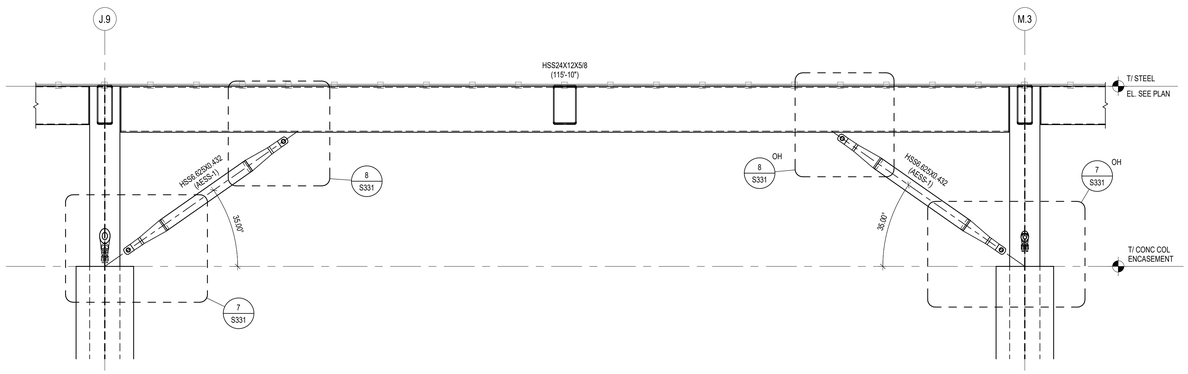
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1 CANOPY FRAME ELEVATION - FRAME-5

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



2 CANOPY FRAME ELEVATION - FRAME-6

SCALE: 3/8" = 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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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
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DRAWN BY: JFS
DESIGNED BY: JFS
PROJECT NUMBER:
2003-0070-006

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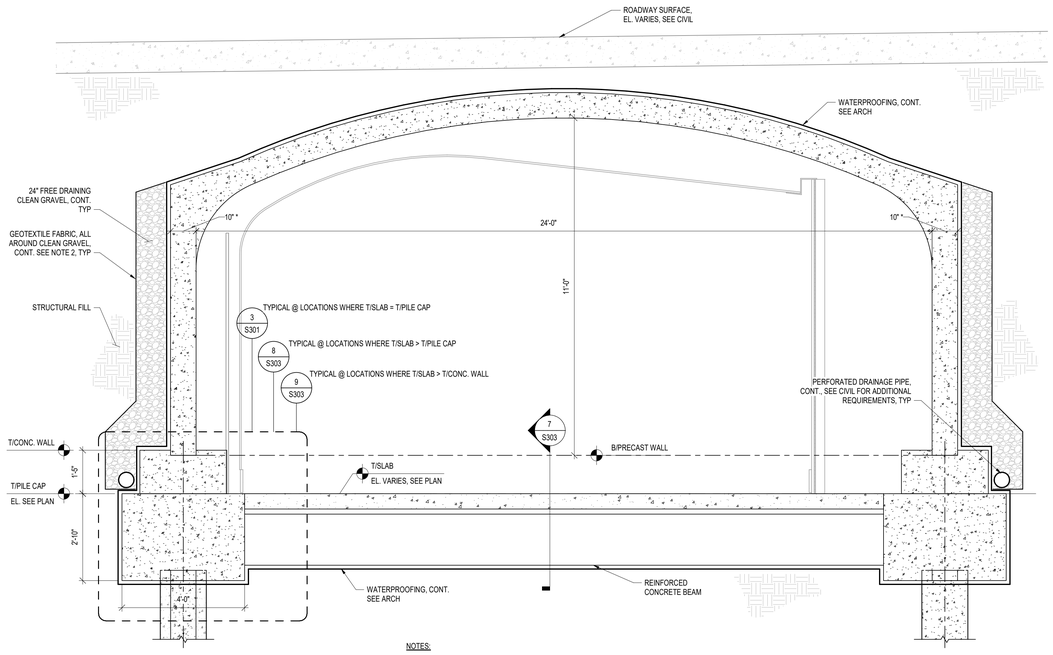
SHEET TITLE:
CANOPY FRAMING ELEVATIONS

SHEET ID:
S224

PROJECT STATUS:
100% BID SET

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NOTES:

1. * DENOTES PRELIMINARY DESIGN TO BE COORDINATED WITH DELEGATED ENGINEER
2. PROVIDE A FREE-DRAINING GEOTEXTILE FABRIC, MIRAFI 160N OR APPROVED EQUAL
3. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE CORRESPONDING SECTIONS/DETAILS

1 SECTION @ TUNNEL

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

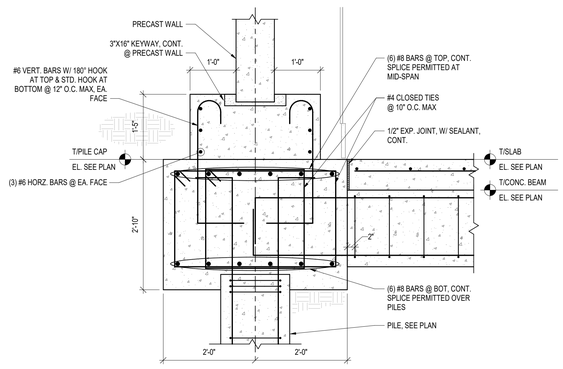
PRECAST CONCRETE WALL LOADS					
LOAD CASE	AXIAL		SHEAR OUT-OF-PLANE	SHEAR IN-PLANE	MOMENT
DEAD	- 13.0 KIP	+ 0.00 KIP	± 0.6 KLF	± 0.00 KLF	± 0.00 FT*KIP/FT
LIVE	- 4.1 KIP	+ 0.00 KIP	± 0.4 KLF	± 0.00 KLF	± 0.00 FT*KIP/FT

NOTES:

1. ALL LOADS ARE BASED ON SERVICE LOAD COMBINATIONS (ASD) IN KIPS PER NCBC 2024
2. FOUNDATION DESIGN FOR PRECAST CONCRETE PANELS IS PRELIMINARY, BASED ON THE PRELIMINARY REACTIONS SHOWN ON THE TABLE ABOVE. PRIOR TO FOUNDATION SHOP DRAWINGS, FABRICATION, AND CONSTRUCTION, PRECAST PANEL MANUFACTURER SHALL SUBMIT WALL REACTIONS, PER DEFERRED SUBMITTAL, TO OWNER'S REPRESENTATIVE FOR VERIFICATION THAT PRELIMINARY FOUNDATION DESIGN COMPLIES WITH ALL APPLICABLE CODES.

2 PRECAST PANELS - REACTIONS

SCALE: N.T.S.

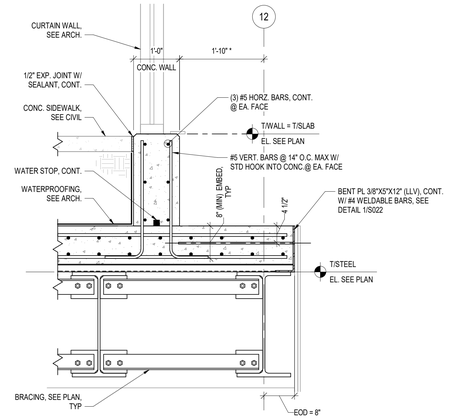


NOTES:

1. PRECAST WALL FOUNDATION SHOWN IS PRELIMINARY, SEE DETAIL 2/S301
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE CORRESPONDING SECTIONS/DETAILS

3 SECTION @ TUNNEL

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

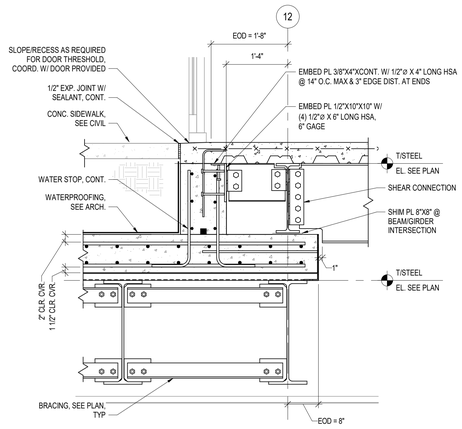


NOTES:

1. * DENOTES DIMENSIONS TO BE CONFIRMED WITH ARCH. WALL ASSEMBLY PROVIDED

4 SECTION @ TUNNEL TOP

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

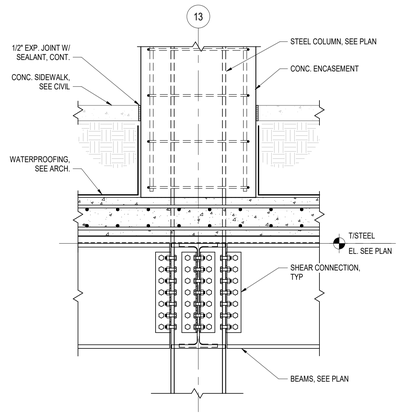


NOTES:

1. ALL STRUCTURAL COMPONENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE 4/S301

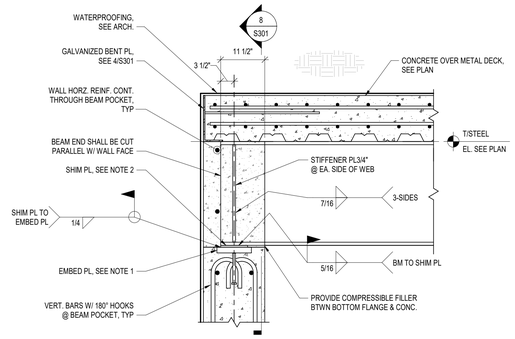
5 SECTION @ TUNNEL TOP

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



6 SECTION @ TUNNEL TOP

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

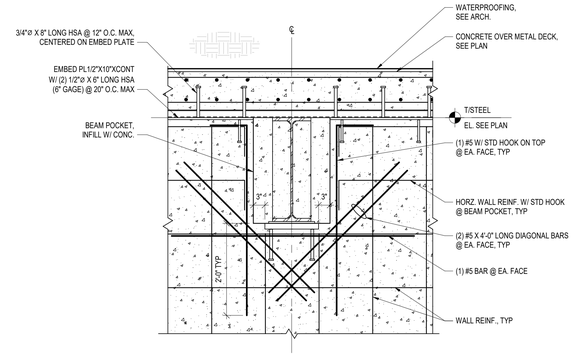


NOTES:

1. EMBED PLATES:
   A. W27X102 - PL1-1/2"X9"X1'-2" W/ (2) 3/4"ø X 8" HSA @ 10" GAGE
   B. W27X102 (WALL NOT PERPENDICULAR TO BEAM) - PL2-1/2"X9"X3'-0" W/ (5) 3/4"ø X 8" HSA @ 8" GAGE
   C. W27X146 - PL2-1/4"X9"X2'-4" W/ (4) 3/4"ø X 8" HSA @ 8" GAGE
2. SHIM PLATES:
   A. W27X102 - PL1/4"(MIN) * X7"X1'-0"
   B. W27X102 (WALL NOT PERPENDICULAR TO BEAM) - PL1/4"(MIN) * X9"X2'-10"
   C. W27X146 - PL1/4"(MIN) * X7"X2'-2"
   D. * DENOTES PLATE THICKNESS MAY VARY UPON EMBED PLATE FIELD ELEVATION, CONTRACTOR SHALL FIELD VERIFY
   E. STACKING SHIM PLATES IS NOT PERMITTED

7 SECTION @ TUNNEL TOP

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



8 SECTION @ TUNNEL TOP

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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SHEET TITLE:

FOUNDATION SECTIONS

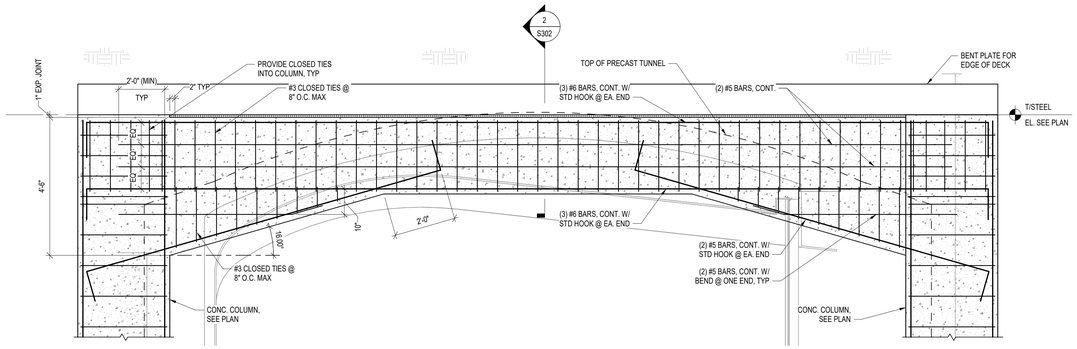
SHEET ID:

S301

PROJECT STATUS:
100% BID SET

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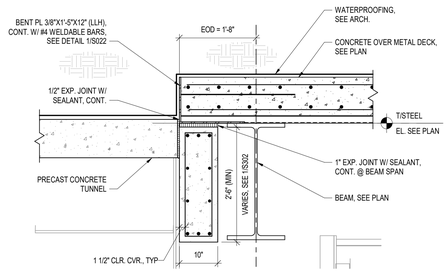


NOTES:

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

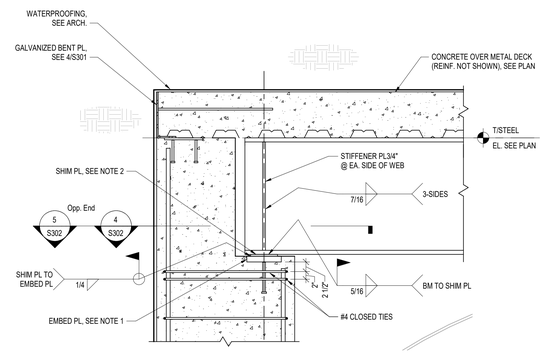
1 SECTION @ TUNNEL TOP

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



2 SECTION @ TUNNEL TOP

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

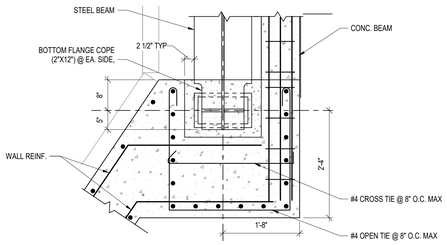


NOTES:

1. EMBED PLATES:
   A. W30X173 - PL1-1/2"X9"X1'-3" W/ (3) 3/4"ø X 8" HSA @ 5-1/2" GAGE
2. SHIM PLATES:
   A. W30X173 - PL1/4"(MIN) * X7"X1'-1"
   B. * DENOTES PLATE THICKNESS MAY VARY UPON EMBED PLATE FIELD ELEVATION, CONTRACTOR SHALL FIELD VERIFY.
   C. STACKING SHIM PLATES IS NOT PERMITTED
3. ALL STRUCTURAL COMPONENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY

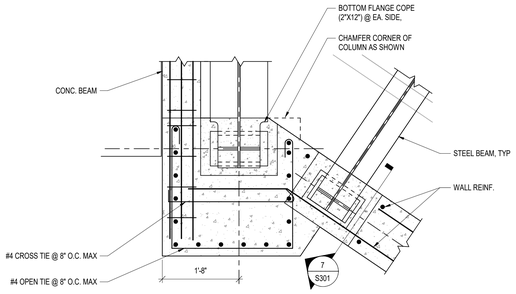
3 SECTION @ TUNNEL TOP

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



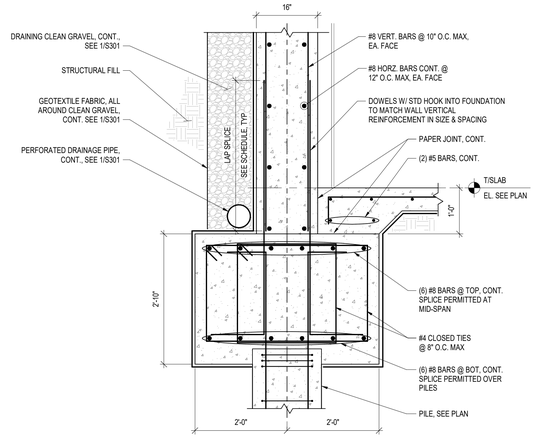
NOTES:

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



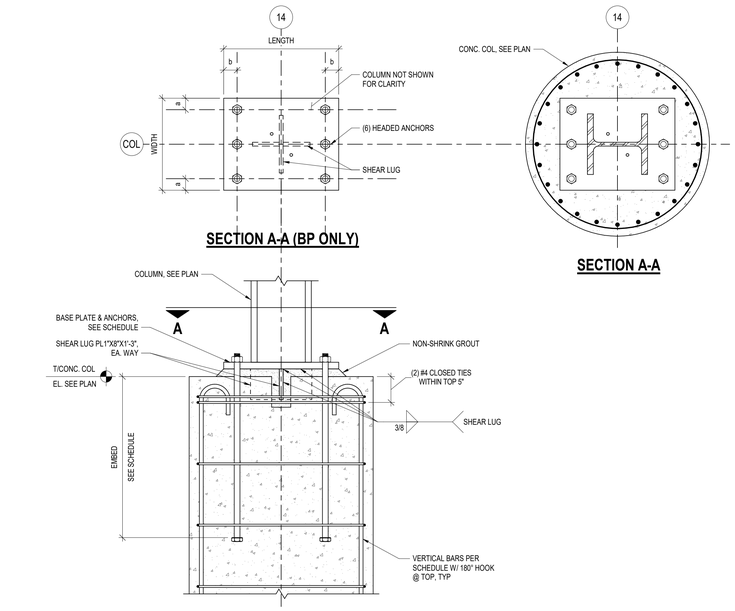
NOTES:

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



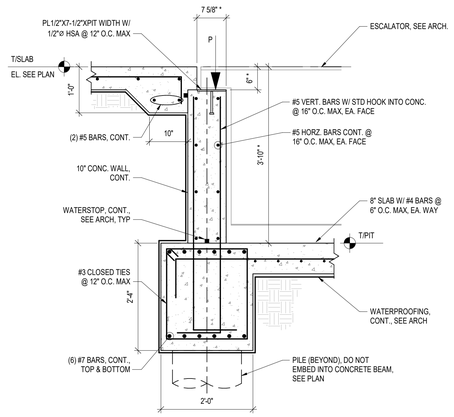
9 SECTION @ TUNNEL

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



6 BASE PLATE DETAIL - (BP-6)

SCALE: N.T.S.

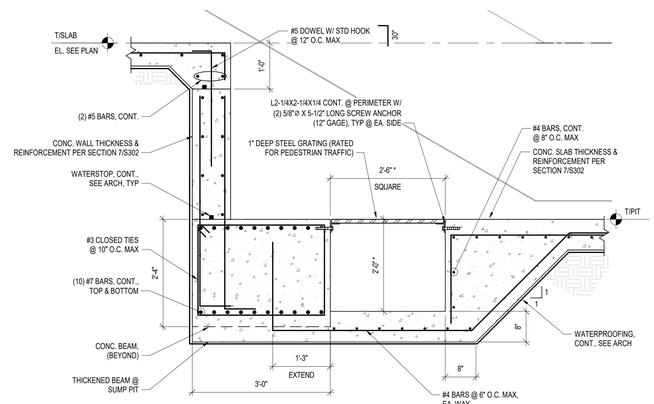


NOTES:

1. * DENOTES DIMENSIONS TO BE COORDINATED/VERIFIED WITH EQUIPMENT PROVIDED
2. ESCALATOR EQUIPMENT:
   A. P1 - 20,000 LBS (MAX) DISTRIBUTED EQUALLY TO (2) TRUSS BEARING LOCATIONS PER UNIT

7 SECTION @ ESCALATOR PIT

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



NOTES:

1. * DENOTES DIMENSIONS TO BE COORDINATED/VERIFIED WITH EQUIPMENT PROVIDED
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE 7/S302

8 SECTION @ ESCALATOR PIT

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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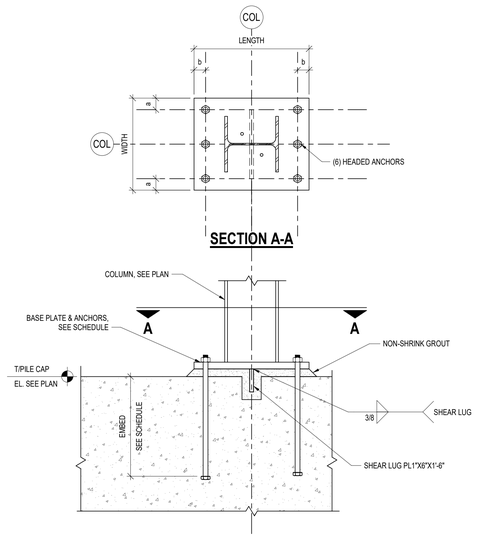
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FOUNDATION SECTIONS

SHEET ID:
S302

PROJECT STATUS:
100% BID SET

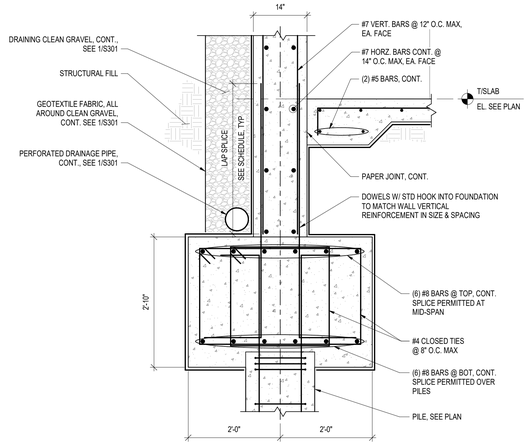
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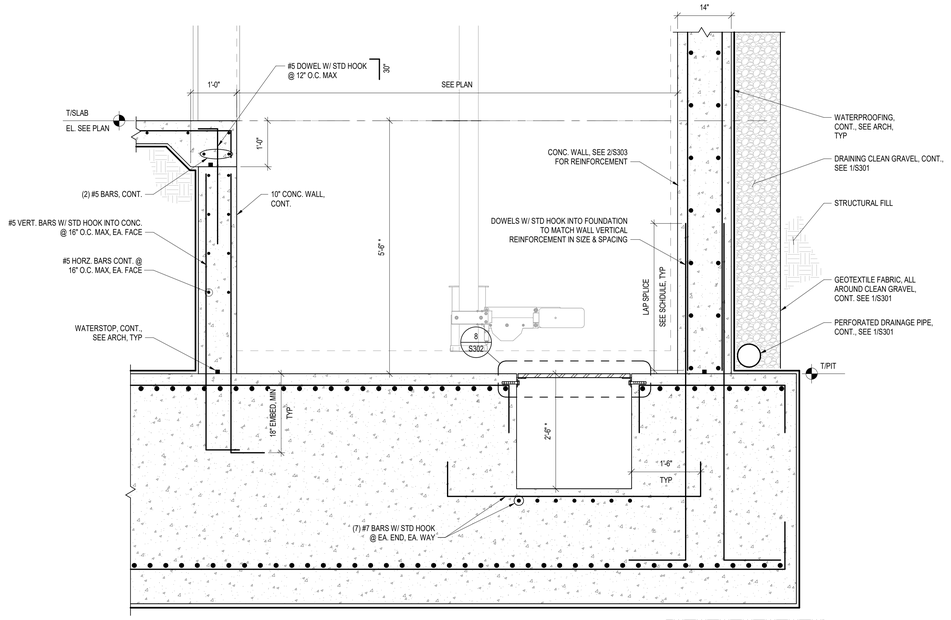
1 BASE PLATE DETAIL - (BP-2)

SCALE: N.T.S.



2 SECTION @ TUNNEL

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



NOTES:

1. * DENOTES DIMENSION TO BE VERIFIED WITH EQUIPMENT PROVIDED

3 SECTION @ ELEVATOR PIT

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

NOTES:

1. NO REINFORCEMENT SHALL BE CUT/DAMAGED DURING POST-INSTALLED DOWEL INSTALLATION. CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING AND MARK LOCATION ON SURFACE OF CONCRETE PRIOR TO DRILLING. CONTRACTOR SHALL SUBMIT LOCATION OF EXISTING REINFORCEMENT WITH PROPOSED LOCATION OF DRILLING LOCATIONS FOR RECORD PURPOSES PRIOR TO DRILLING.
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY

4 SECTION @ TUNNEL

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

NOTES:

1. PARTIALLY REMOVE 10" OF THE EXISTING FOUNDATION
   A. DO NOT DAMAGE EXISTING REINFORCEMENT SHOW TO BE SPLICED TO NEW REINFORCEMENT
   B. REINFORCEMENT TO REMAIN SHALL BE CLEANED
   C. FOUNDATION SHALL BE MODIFIED PRIOR TO INSTALLING THE NEW STEEL COLUMN
2. ALL STRUCTURAL COMPONENTS ARE NOT SHOWN/IDENTIFIED, SEE SECTION 2/S303

5 SECTION @ TUNNEL

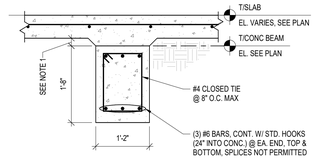
SCALE: 3/4" = 1'-0"

NOTES:

1. PARTIALLY REMOVE 10" OF THE EXISTING FOUNDATION
   A. DO NOT DAMAGE EXISTING REINFORCEMENT SHOW TO BE SPLICED TO NEW REINFORCEMENT
   B. REINFORCEMENT TO REMAIN SHALL BE CLEANED
   C. FOUNDATION SHALL BE MODIFIED PRIOR TO INSTALLING THE NEW STEEL COLUMN(S)
2. ALL STRUCTURAL COMPONENTS ARE NOT SHOWN/IDENTIFIED, SEE SECTION 2/S303

6 SECTION @ ESCALATOR

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

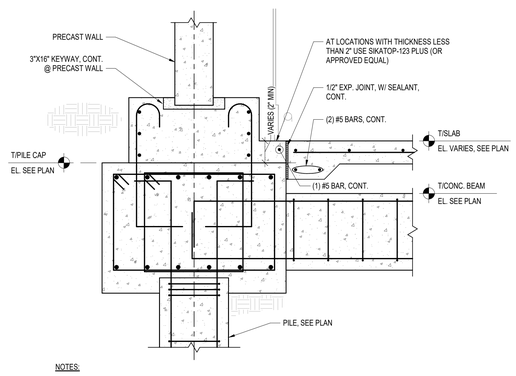


NOTES:

1. THICKEN SLAB ON GRADE AT LOCATIONS WITH LESS THAN 5" BETWEEN TOP OF CONCRETE BEAM AND BOTTOM OF SLAB ON GRADE

7 SECTION @ TUNNEL CONCRETE BEAM

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

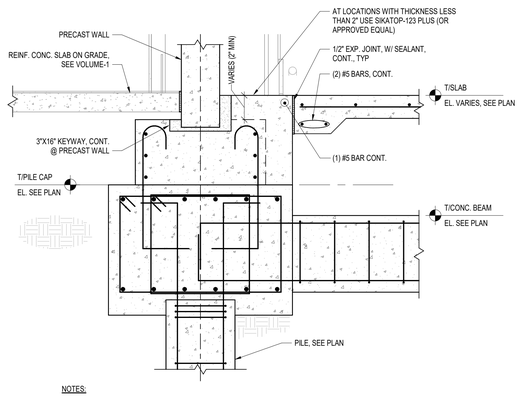


NOTES:

1. PRECAST WALL FOUNDATION SHOWN IS PRELIMINARY, SEE DETAIL 2/S301
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE 3/S301

8 SECTION @ TUNNEL

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



NOTES:

1. PRECAST WALL FOUNDATION SHOWN IS PRELIMINARY, SEE DETAIL 2/S301
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE 3/S301

9 SECTION @ TUNNEL

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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SHEET TITLE:

FOUNDATION SECTIONS

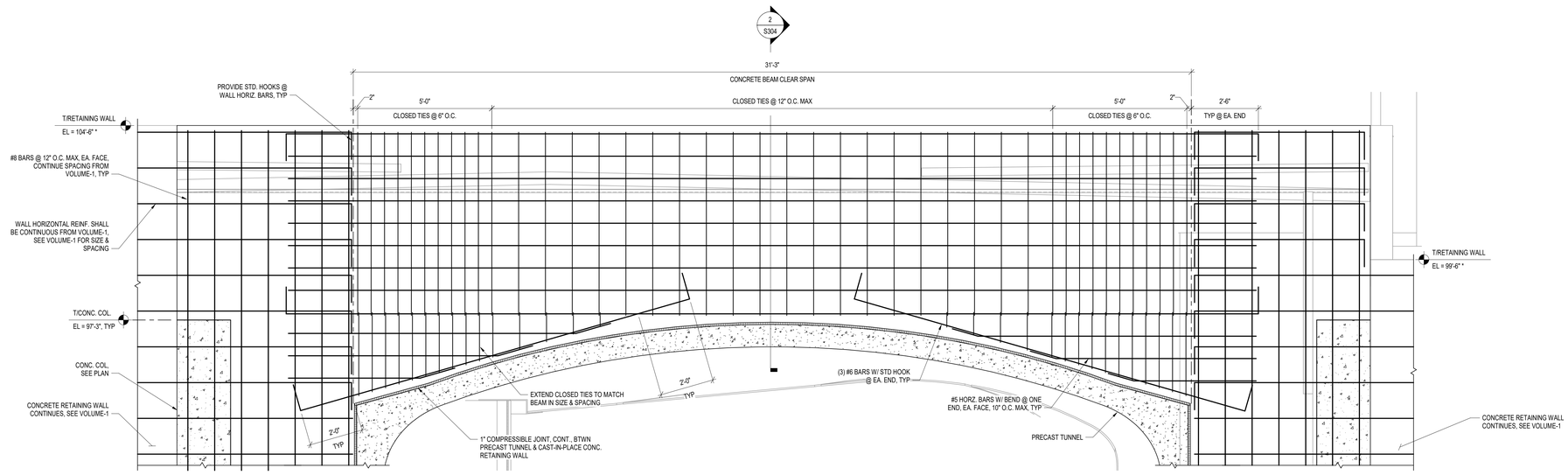
SHEET ID:

S303

PROJECT STATUS:
100% BID SET

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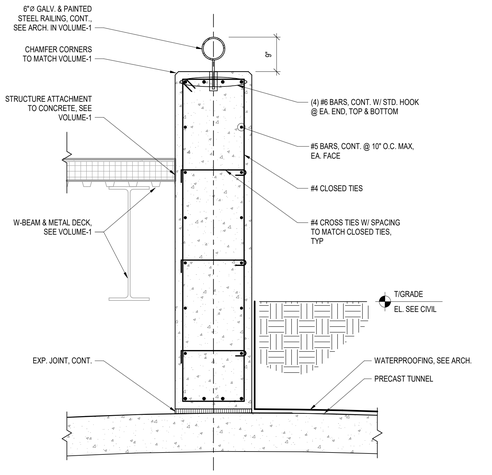


NOTES:

1. * DENOTES ELEVATIONS TO BE COORDINATED/MATCH WITH VOLUME-1

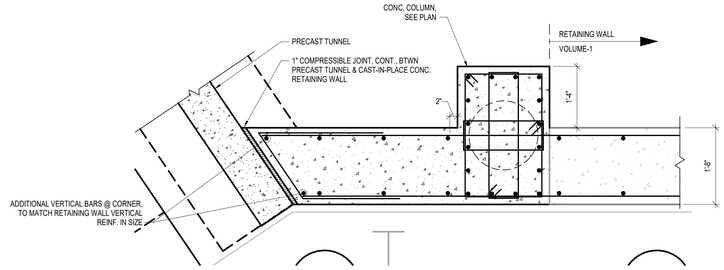
1 SECTION @ TUNNEL

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



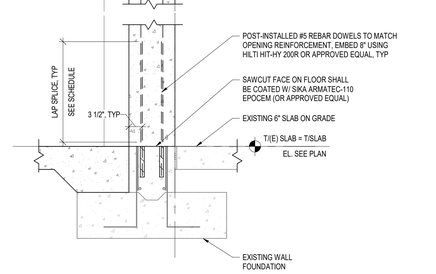
2 SECTION @ TUNNEL

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



3 SECTION @ RETAINING WALL

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



NOTES:

1. PARTIALLY REMOVE 4" BEYOND THE NEW OPENING AT (3) SIDES
2. ALL STRUCTURAL COMPONENTS ARE NOT SHOWN/IDENTIFIED, SEE SECTION 2/S303
3. NO REINFORCEMENT SHALL BE CUT/DAMAGED DURING POST-INSTALLED DOWEL INSTALLATION. CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING AND MARK LOCATION ON SURFACE OF CONCRETE PRIOR TO DRILLING. CONTRACTOR SHALL SUBMIT LOCATION OF EXISTING REINFORCEMENT WITH PROPOSED LOCATION OF DRILLING LOCATIONS FOR RECORD PURPOSES PRIOR TO DRILLING.

4 SECTION @ NEW OPENING

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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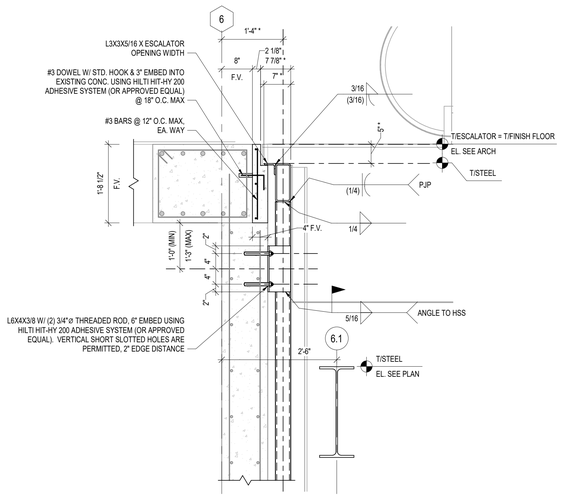
SHEET TITLE:
FOUNDATION SECTIONS

SHEET ID:
S304

PROJECT STATUS:
100% BID SET

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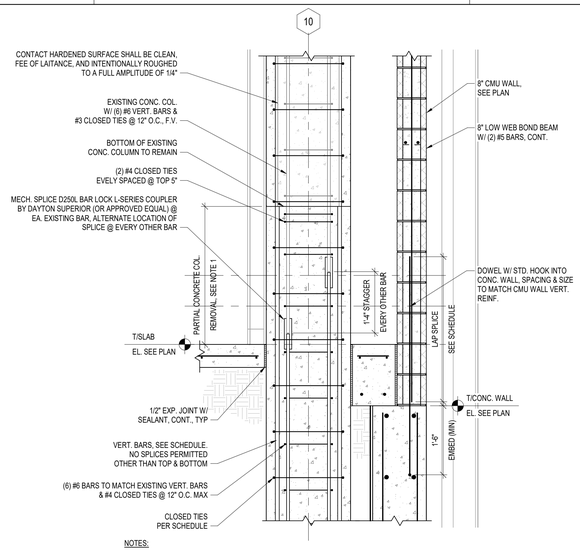


NOTES:

1. NO REINFORCEMENT SHALL BE CUT/DAMAGED DURING POST-INSTALLED DOWEL/ANCHOR INSTALLATION. CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING AND MARK LOCATION ON SURFACE OF CONCRETE PRIOR TO DRILLING. CONTRACTOR SHALL SUBMIT LOCATION OF EXISTING REINFORCEMENT WITH PROPOSED LOCATION OF DRILLING LOCATIONS FOR RECORD PURPOSES PRIOR TO DRILLING.
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY
3. * DENOTES COORDINATION REQUIRED WITH EQUIPMENT PROVIDED

1 SECTION @ ESCALATOR

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

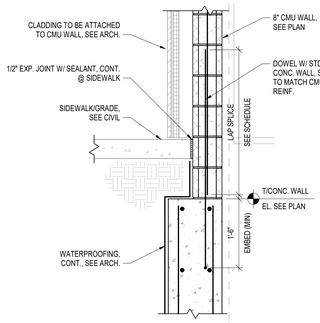


NOTES:

1. PARTIALLY REMOVE BOTTOM 3'-0" OF EXISTING CONCRETE COLUMN
   A. VERTICAL BARS SHALL NOT BE DAMAGED AND REMAIN IN PLACE.
   B. CLEAR REINFORCEMENT TO REMAIN
   C. REMOVE EXISTING SPLICE BARS
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY

2 SECTION @ FLOOR

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

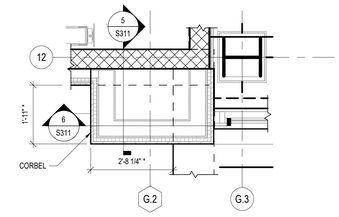


NOTES:

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

3 SECTION @ ELEVATOR SHAFT

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



NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY

4 CORBEL PLAN VIEW

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

NOTES:

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

5 SECTION @ CORBEL

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

NOTES:

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

6 SECTION @ CORBEL

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

7 SECTION @ ELEVATOR SHAFT

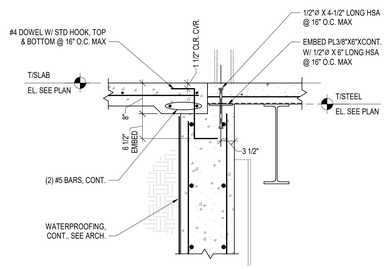
SCALE: 3/4" = 1'-0"

NOTES:

1. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE DETAIL 9/S311

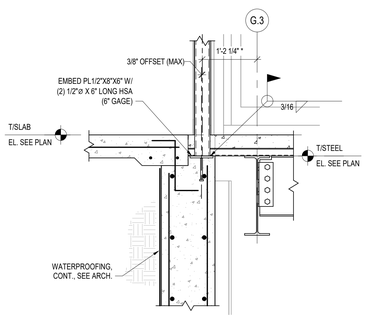
8 SECTION @ FLOOR

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



9 SECTION @ FLOOR

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

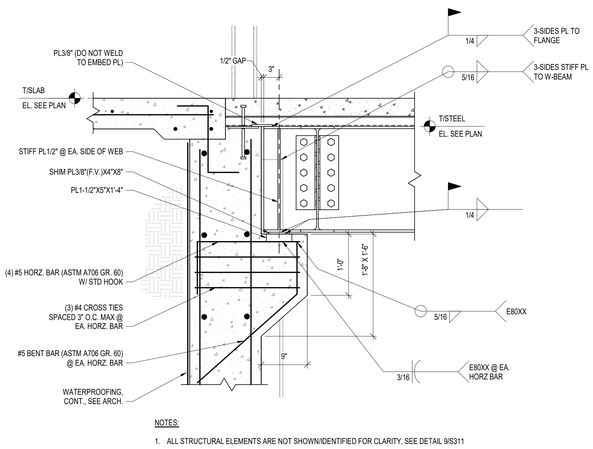


NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE DETAIL 9/S311

10 SECTION @ POST CONNECTION

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

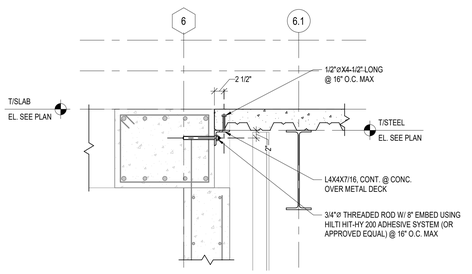


NOTES:

1. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE DETAIL 9/S311

11 SECTION @ FLOOR

SCALE: 1" = 1'-0"



NOTES:

1. NO REINFORCEMENT SHALL BE CUT/DAMAGED DURING POST-INSTALLED DOWEL/ANCHOR INSTALLATION. CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING AND MARK LOCATION ON SURFACE OF CONCRETE PRIOR TO DRILLING. CONTRACTOR SHALL SUBMIT LOCATION OF EXISTING REINFORCEMENT WITH PROPOSED LOCATION OF DRILLING LOCATIONS FOR RECORD PURPOSES PRIOR TO DRILLING.
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY
3. * DENOTES COORDINATION REQUIRED WITH EQUIPMENT PROVIDED

12 SECTION @ FLOOR

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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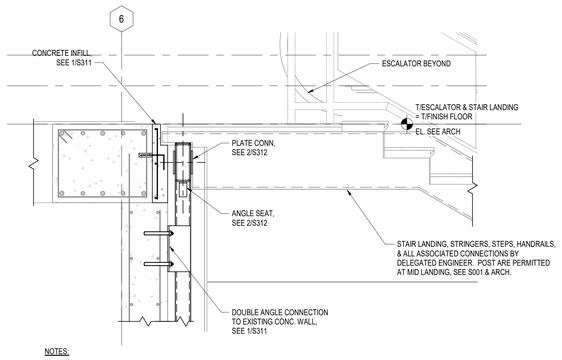
SHEET TITLE:
FLOOR SECTIONS

SHEET ID:
S311

PROJECT STATUS:
100% BID SET

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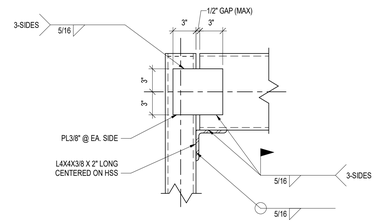


NOTES:

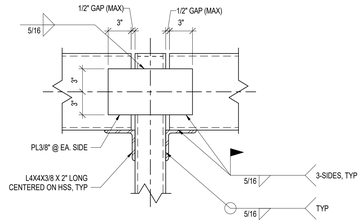
1. NO REINFORCEMENT SHALL BE CUT/DAMAGED DURING POST-INSTALLED DOWEL/ANCHOR INSTALLATION. CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING AND MARK LOCATION ON SURFACE OF CONCRETE PRIOR TO DRILLING. CONTRACTOR SHALL SUBMIT LOCATION OF EXISTING REINFORCEMENT WITH PROPOSED LOCATION OF DRILLING LOCATIONS FOR RECORD PURPOSES PRIOR TO DRILLING.
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY
3. DESIGN ASSUMES THE STAIR STRINGERS WILL BE CONNECTED TO THE VERTICAL HSS. CONTRACTOR SHALL PROVIDE REACTIONS PRIOR TO HSS ASSEMBLY FABRICATION FOR EOR TO CONFIRM/REVISE ASSUMPTIONS.

1 SECTION @ ESCALATOR

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



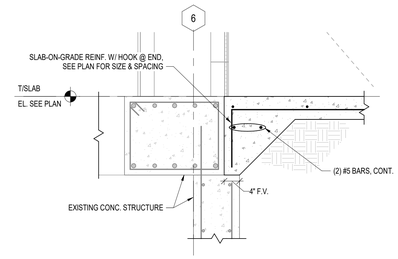
SINGLE SIDE HSS CONNECTION



DOUBLE SIDE HSS CONNECTION

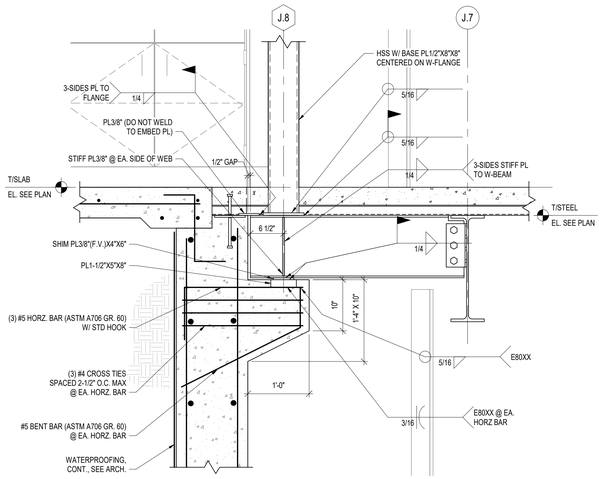
2 SECTION @ ESCALATOR SUPPORT

SCALE: N.T.S.



3 SECTION @ FLOOR

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

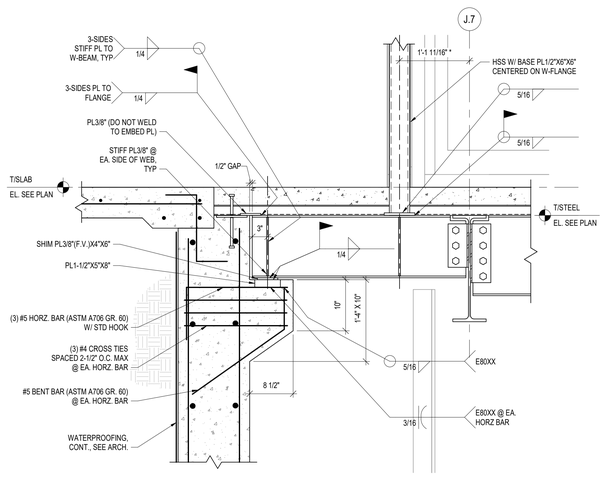


NOTES:

1. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE DETAIL 9/S311

4 SECTION @ FLOOR

SCALE: 1" = 1'-0"

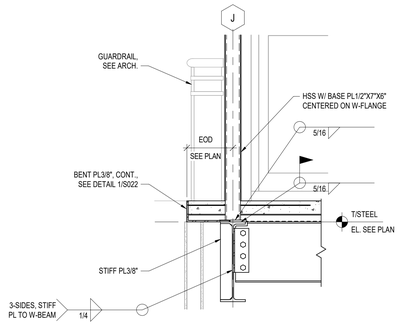


NOTES:

1. * DENOTES COORDINATION REQUIRED WITH ARCH. WALL ASSEMBLY
2. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY, SEE DETAIL 9/S311

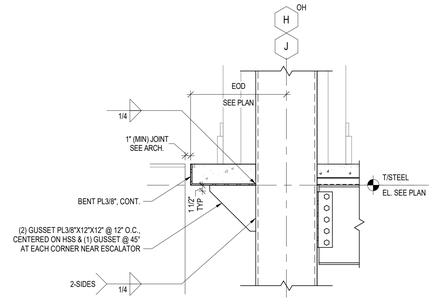
5 SECTION @ FLOOR

SCALE: 1" = 1'-0"



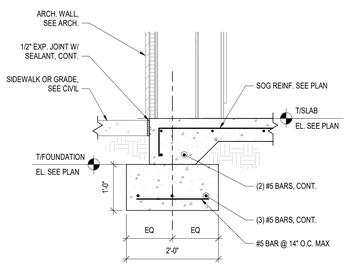
6 SECTION @ FLOOR

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



7 TICKET - FLOOR NEAR HSS16

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



NOTES:

1. EDGE OF SLAB SHALL BE COORDINATED WITH ARCH. WALL ASSEMBLY SHOP DRAWINGS AND EXISTING CONDITIONS.

8 SECTION @ FLOOR

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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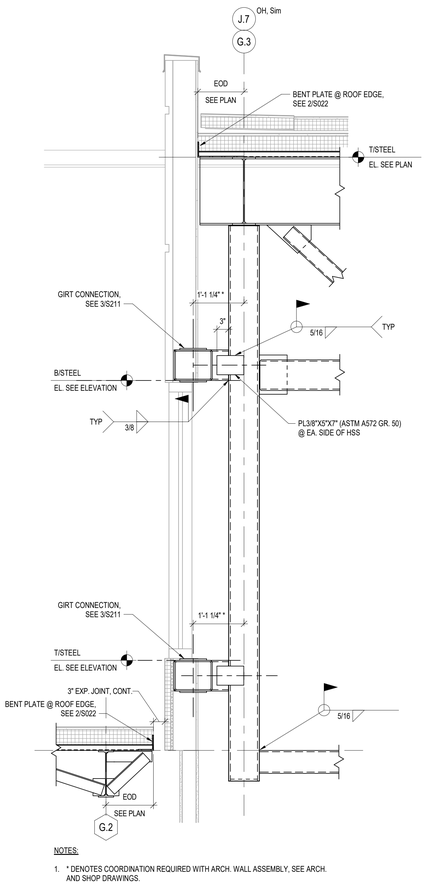
SHEET TITLE:
FLOOR SECTIONS

SHEET ID:
S312

PROJECT STATUS:
100% BID SET

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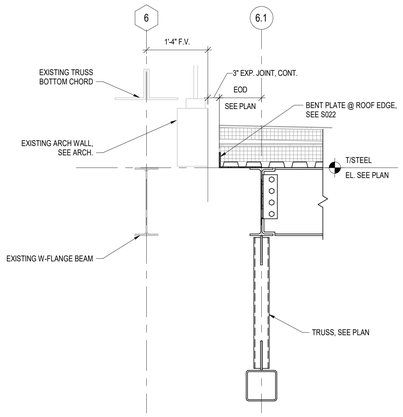


NOTES:

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

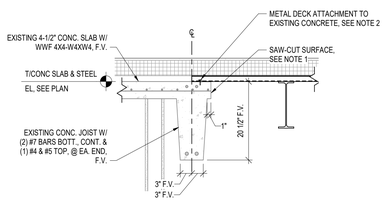
1 SECTION @ ROOF

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



2 SECTION @ ROOF

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

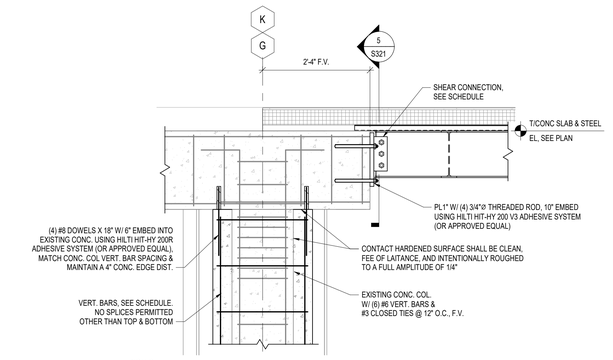


NOTES:

1. SAW-CUT SURFACE:
   A. EXISTING CONTACT HARDENED SURFACE SHALL BE CLEAN AND FREE OF LAITANCE
   B. CONCRETE SUBSTRATE AND EXPOSED REINFORCING BAR-ENDS SHALL BE COATED WITH SIKA ARMATEC-100 EPOCEM (OR APPROVED EQUAL)
2. ATTACHMENT PATTERN PER METAL ROOF DECK NOTES ON S001 USING HILTI X-P W/ 3/4" EMBEDMENT

3 SECTION @ ROOF

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

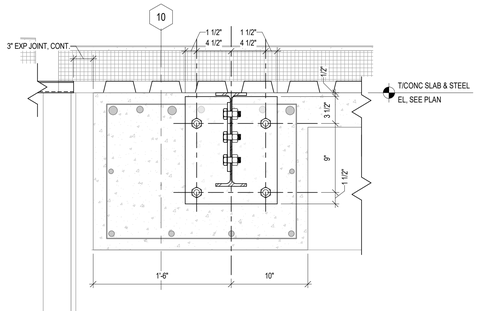


NOTES:

1. NO REINFORCEMENT SHALL BE CUT/DAMAGED DURING POST-INSTALLED DOWEL INSTALLATION. CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING AND MARK LOCATION ON SURFACE OF CONCRETE PRIOR TO DRILLING

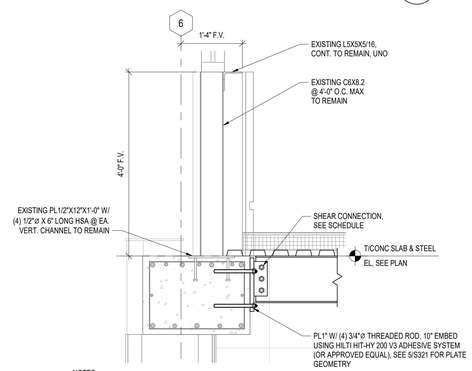
4 SECTION @ ROOF

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



5 SECTION @ ROOF

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

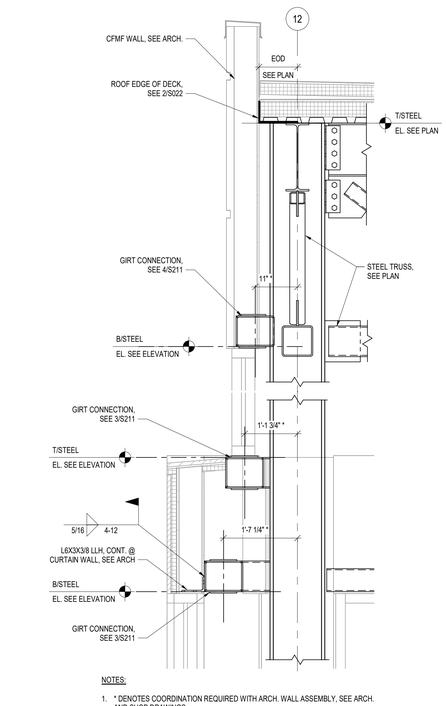


NOTES:

1. NO REINFORCEMENT SHALL BE CUT/DAMAGED DURING POST-INSTALLED ANCHOR INSTALLATION. CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING AND MARK LOCATION ON SURFACE OF CONCRETE PRIOR TO SUBMITTAL OF STEEL SHOP DRAWINGS, STEEL FABRICATION AND DRILLING

6 SECTION @ ROOF

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

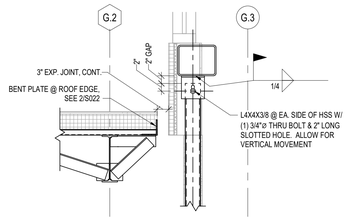


NOTES:

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

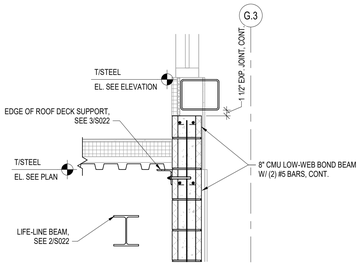
7 SECTION @ WALL GIRTS

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



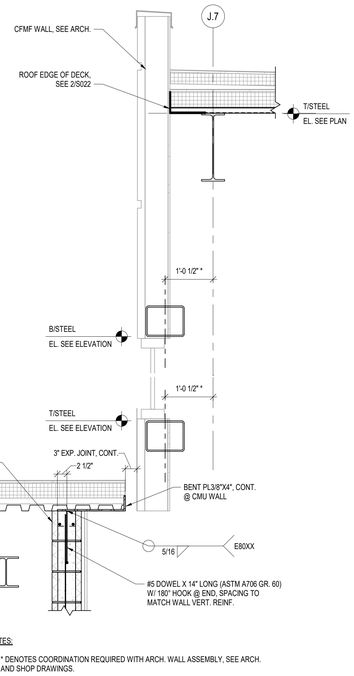
8 SECTION @ ROOF

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



9 SECTION @ ROOF

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

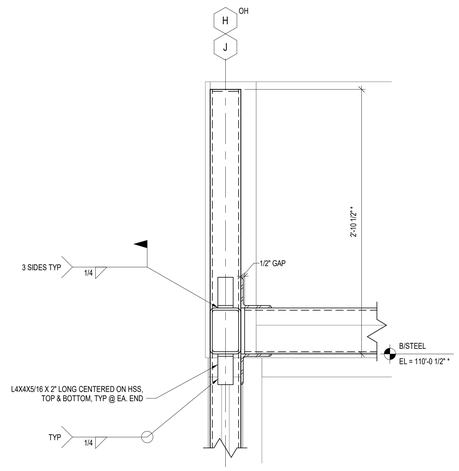


NOTES:

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

10 SECTION @ ROOF

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



NOTES:

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

11 SECTION @ INTERIOR VESTIBULE

SCALE: 1 1/2" = 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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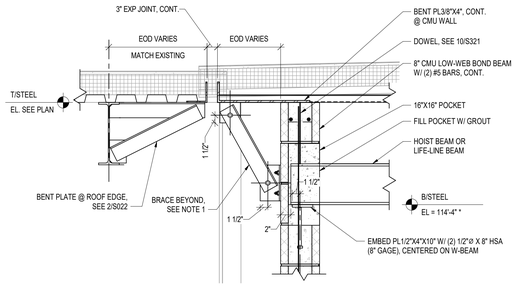
SHEET TITLE:
ROOF FRAMING SECTIONS

SHEET ID:
S321

PROJECT STATUS:
100% BID SET

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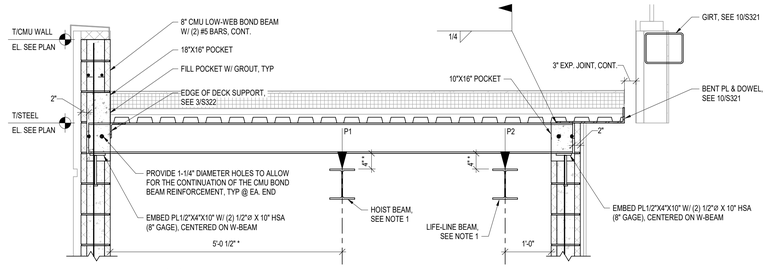


NOTES:

1. L3X3X1/4 BRACE W/ (1) 1/2"ø BOLT, TOP & BOTTOM, 1-1/2" EDGE DIST. @ 48" O.C. MAX
   A. TOP CONNECTION: PL1/4"X4"X4" W/ 3/16" FIELD FILLET WELD ON BOTH LONG SIDES OF PLATE
   B. BOTTOM CONNECTION: L4X3X1/4 X 7" LONG W/ (2) 1/2"ø THREADED ROD, 4" GAGE, 5-5/8" EMBED USING HILTI HIT-HY 270 (OR APPROVED EQUAL) INTO CMU WALL
   C. BRACE IS ONLY REQUIRED AT LOCATIONS WITH AN EOD GREATER THAN 12"
2. * DENOTES COORDINATION REQUIRED WITH ELEVATOR EQUIPMENT PROVIDED

1 SECTION @ ROOF

SCALE: 1" = 1'-0"

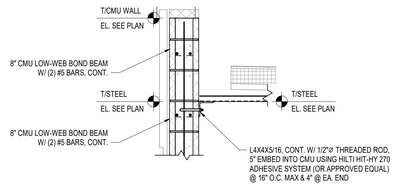


NOTES:

1. HOIST BEAM DESIGN IS PRELIMINARY UNTIL ASSUMED LOAD IS VERIFIED WITH EQUIPMENT SHOP DRAWINGS
   A. P1: (1) CONCENTRATED LIVE LOAD = 7,500 LBS (MAX) AT MID SPAN
2. LIFE-LINE BEAM DESIGN IS BASED ON OSHA STANDARD SECTION 1926.104(b)
   A. P2: (1) CONCENTRATED LIVE LOAD = 5,400 LBS (MAX) AT ANY LOCATION ALONG THE SPAN
3. * DENOTES COORDINATION REQUIRED WITH EQUIPMENT SHOP DRAWINGS

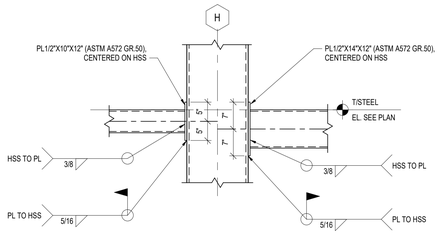
2 SECTION @ ELEVATOR

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



3 SECTION @ ELEVATOR

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



4 SECTION @ HSS TO HSS CONNECTION

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

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Hartranft Lighting Design

ILM

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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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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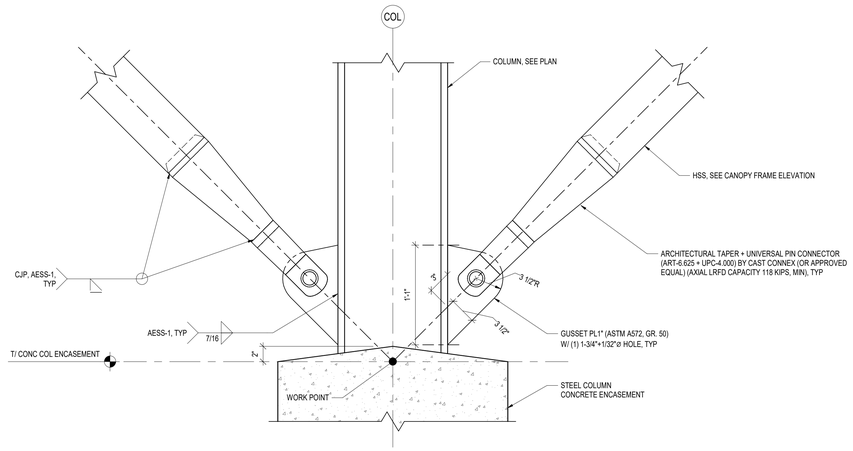
SHEET TITLE:
ROOF FRAMING SECTIONS

SHEET ID:
S322

PROJECT STATUS:
100% BID SET

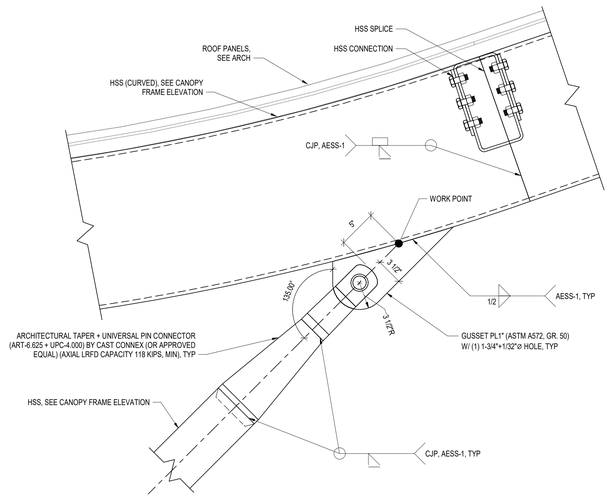
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3/14/2025 6:24:21 AM Autodesk Docs://1003007004_ILM TO4 Rdwy Intl Improv Design/2003007006_ILM_TO6 Terminal and Tunnel_S_R24.rvt



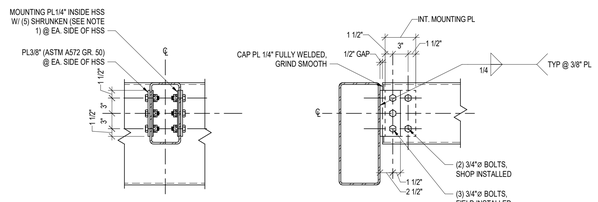
1 SECTION @ CANOPY

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



2 SECTION @ CANOPY

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

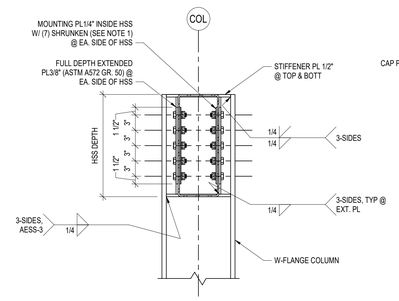


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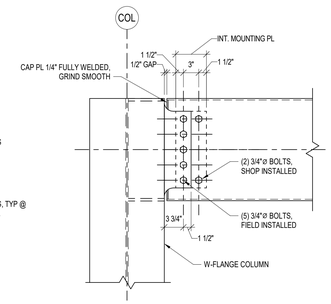
1. SHURIKEN STRUCTURAL NUT POSITIONERS BY ATLAS TUBE OR APPROVED EQUAL
   A. STRUCTURAL NUT POSITIONERS SHALL BE TACK WELDED TO MOUNTING PLATE PER MANUFACTURER'S WRITTEN INSTRUCTIONS
   B. ENSURE THAT EVERY STRUCTURAL NUT POSITIONERS HAS A STRUCTURAL NUT WITHIN
2. ALL WELDS SHALL MEET AESS-1 CRITERIA

3 HSS12 TO HSS20 TYPICAL SHEAR CONNECTION

SCALE: N.T.S.



FRONT VIEW



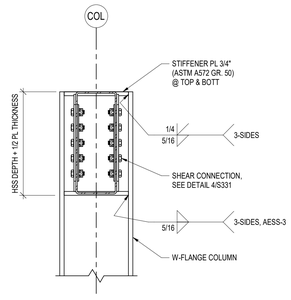
SIDE VIEW

NOTES:

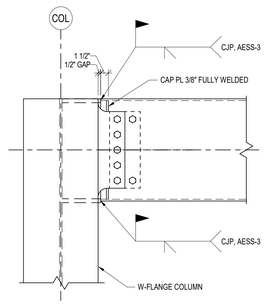
1. SHURIKEN STRUCTURAL NUT POSITIONERS BY ATLAS TUBE OR APPROVED EQUAL
   A. STRUCTURAL NUT POSITIONERS SHALL BE TACK WELDED TO MOUNTING PLATE PER MANUFACTURER'S WRITTEN INSTRUCTIONS
   B. ENSURE THAT EVERY STRUCTURAL NUT POSITIONERS HAS A STRUCTURAL NUT WITHIN
   C. SLOTTED HOLES NOT PERMITTED
2. ALL WELDS SHALL MEET AESS-1 CRITERIA

4 HSS20 TO W14-WEB TYPICAL SHEAR CONNECTION

SCALE: N.T.S.



FRONT VIEW



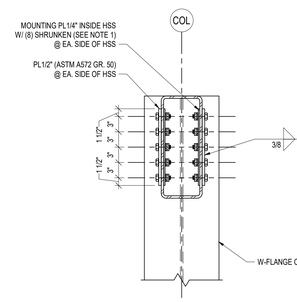
SIDE VIEW

NOTES:

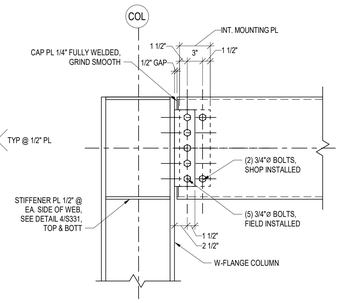
1. SHURIKEN STRUCTURAL NUT POSITIONERS BY ATLAS TUBE OR APPROVED EQUAL
   A. STRUCTURAL NUT POSITIONERS SHALL BE TACK WELDED TO MOUNTING PLATE PER MANUFACTURER'S WRITTEN INSTRUCTIONS
   B. ENSURE THAT EVERY STRUCTURAL NUT POSITIONERS HAS A STRUCTURAL NUT WITHIN
   C. SLOTTED HOLES NOT PERMITTED
2. ALL WELDS SHALL MEET AESS-1 CRITERIA

5 HSS20 TO W14-WEB TYPICAL MOMENT CONNECTION

SCALE: N.T.S.



FRONT VIEW



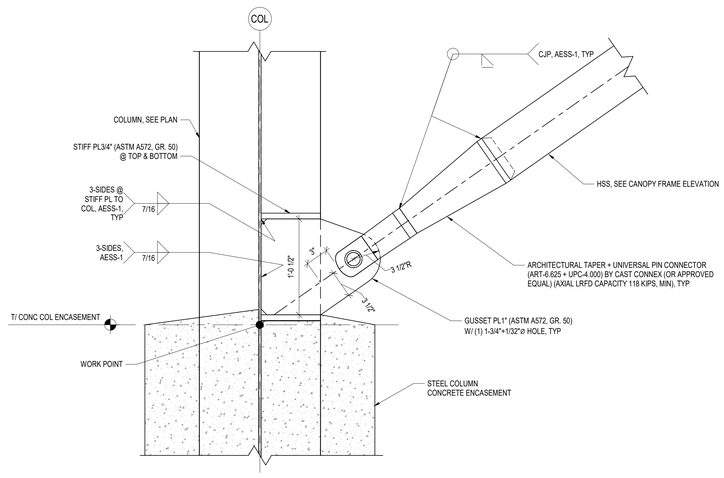
SIDE VIEW

NOTES:

1. SHURIKEN STRUCTURAL NUT POSITIONERS BY ATLAS TUBE OR APPROVED EQUAL
   A. STRUCTURAL NUT POSITIONERS SHALL BE TACK WELDED TO MOUNTING PLATE PER MANUFACTURER'S WRITTEN INSTRUCTIONS
   B. ENSURE THAT EVERY STRUCTURAL NUT POSITIONERS HAS A STRUCTURAL NUT WITHIN
   C. SLOTTED HOLES NOT PERMITTED
2. ALL WELDS SHALL MEET AESS-1 CRITERIA

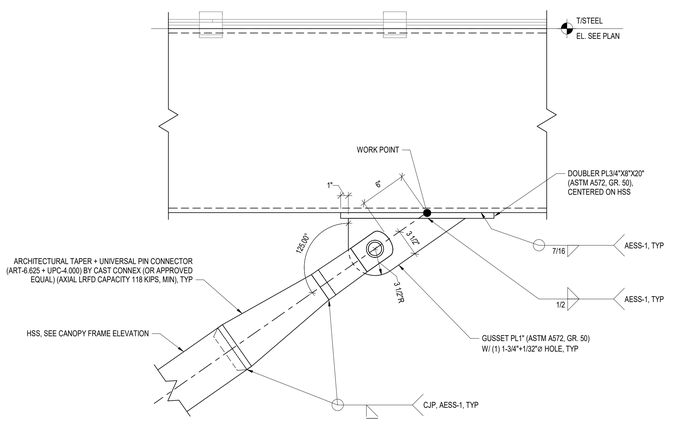
6 HSS20 TO W14-FLANGE TYPICAL SHEAR CONNECTION

SCALE: N.T.S.



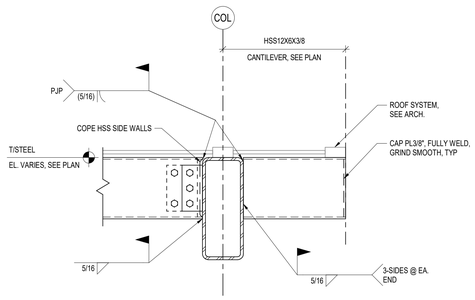
7 SECTION @ CANOPY

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



8 SECTION @ CANOPY

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



NOTES:

1. SIMILAR W-FLANGE COLUMN, EXTEND HSS CANTILEVER TO COLUMN WEB AND WELD AS SHOWN IN THIS DETAIL
2. ALL WELDS SHALL MEET AESS-1 CRITERIA

9 SECTION @ CANTILEVER CANOPY

SCALE: N.T.S.

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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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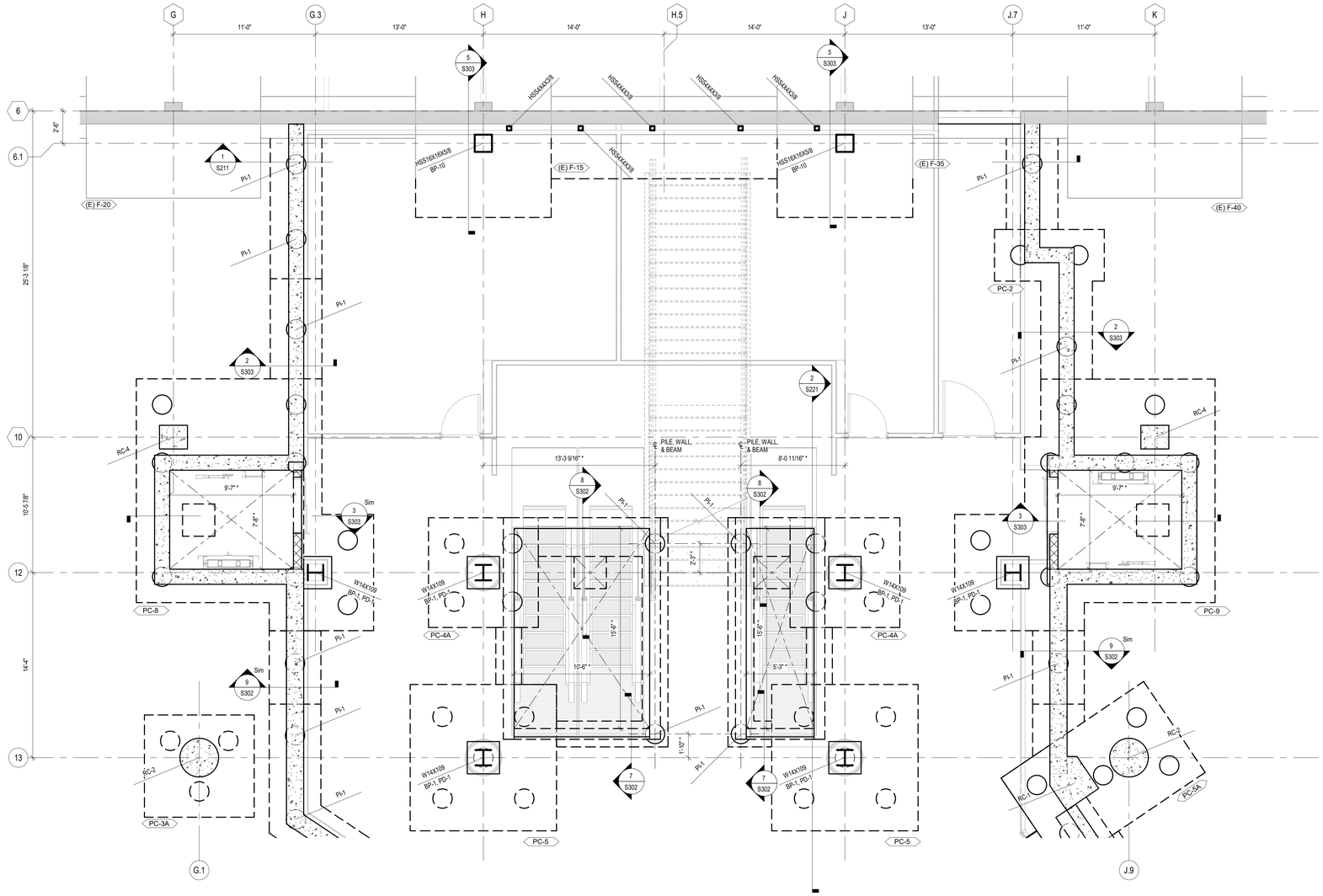
SHEET TITLE:
CANOPY FRAMING SECTIONS

SHEET ID:
S331

PROJECT STATUS:
100% BID SET

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1 ENLARGED RAMP LEVEL FOUNDATION PLAN

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

ENLARGED PLAN NOTES

FOUNDATION PLAN LEGEND

1. CONCRETE COLUMN — RC-#
2. PILE CAP — PC-#
3. AUGER CAST PILE — Pl-#
4. CMU WALL, SEE MASONRY NOTES FOR SIZE & REINF.
5. FOUNDATION STEP, SEE DETAIL 8/S012 — HIGH ELEV. / LOW ELEV.
6. TIE BEAM — TB
7. CAST-IN-PLACE CONCRETE WALL
8. STEEL COLUMN, SEE PLAN — W##X## / BP-#, PD-#
   - A. SIZE
   - B. BASE PLATE TYPE _____ BP-#
   - C. PEDESTAL TYPE _____ PD-#
9. EXISTING SHALLOW FOUNDATION — (E) F-##

FOUNDATION PLAN NOTES

1. * DIMENSION SHALL BE VERIFIED/COORDINATED WITH ELEVATOR & ESCALATOR EQUIPMENT PROVIDED

EXISTING SHALLOW FOUNDATION SCHEDULE

	GEOMETRY			REINFORCEMENT		REMARKS
FND MARK	WIDTH	LENGTH	THICKNESS	TOP BARS	BOTTOM BARS	
(E) F-15	10'-6"	10'-6"	21"	-	(18) #6 & (17) #6	-
(E) F-20	13'-6"	13'-6"	30"	-	(19) #8 & (18) #8	-
(E) F-35	10'-6"	10'-6"	21"	-	(18) #6 & (17) #6	-
(E) F-40	13'-6"	13'-6"	30"	-	(19) #8 & (18) #8	-

NOTES:

1. ALL INFORMATION WITHIN THIS SCHEDULE IS BASED ON RECORD DRAWINGS AND SHALL BE FIELD VERIFIED

2 EXISTING SHALLOW FOUNDATION SCHEDULE

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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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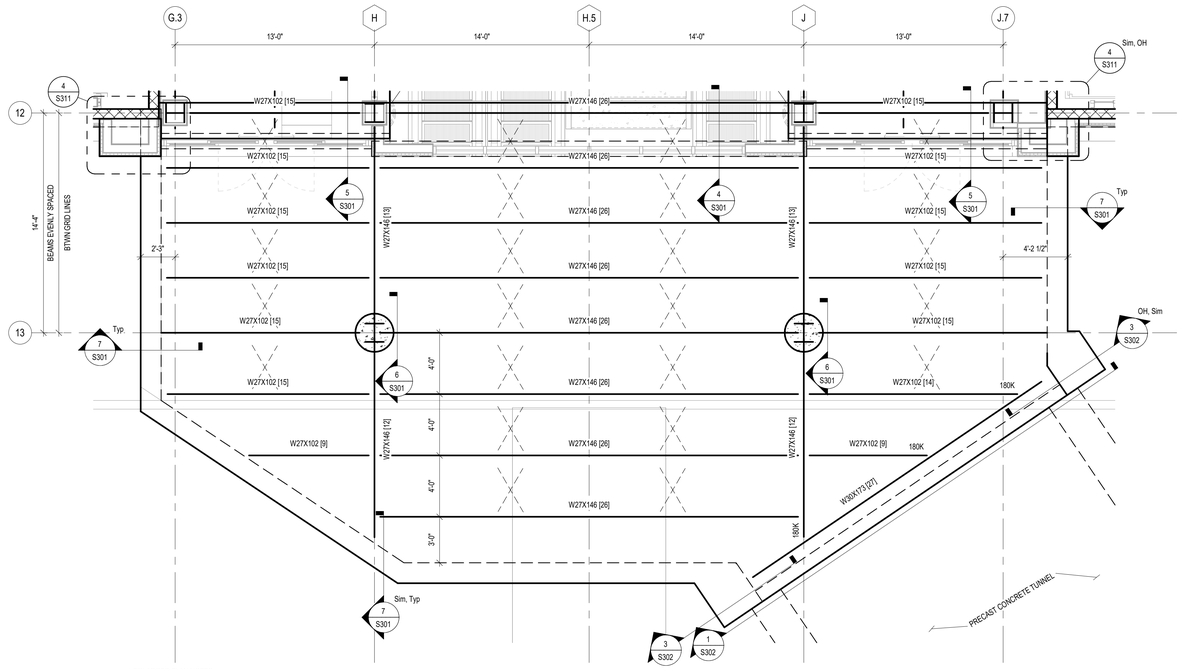
SHEET TITLE:
ENLARGED PLANS

SHEET ID:
S401

PROJECT STATUS:
100% BID SET

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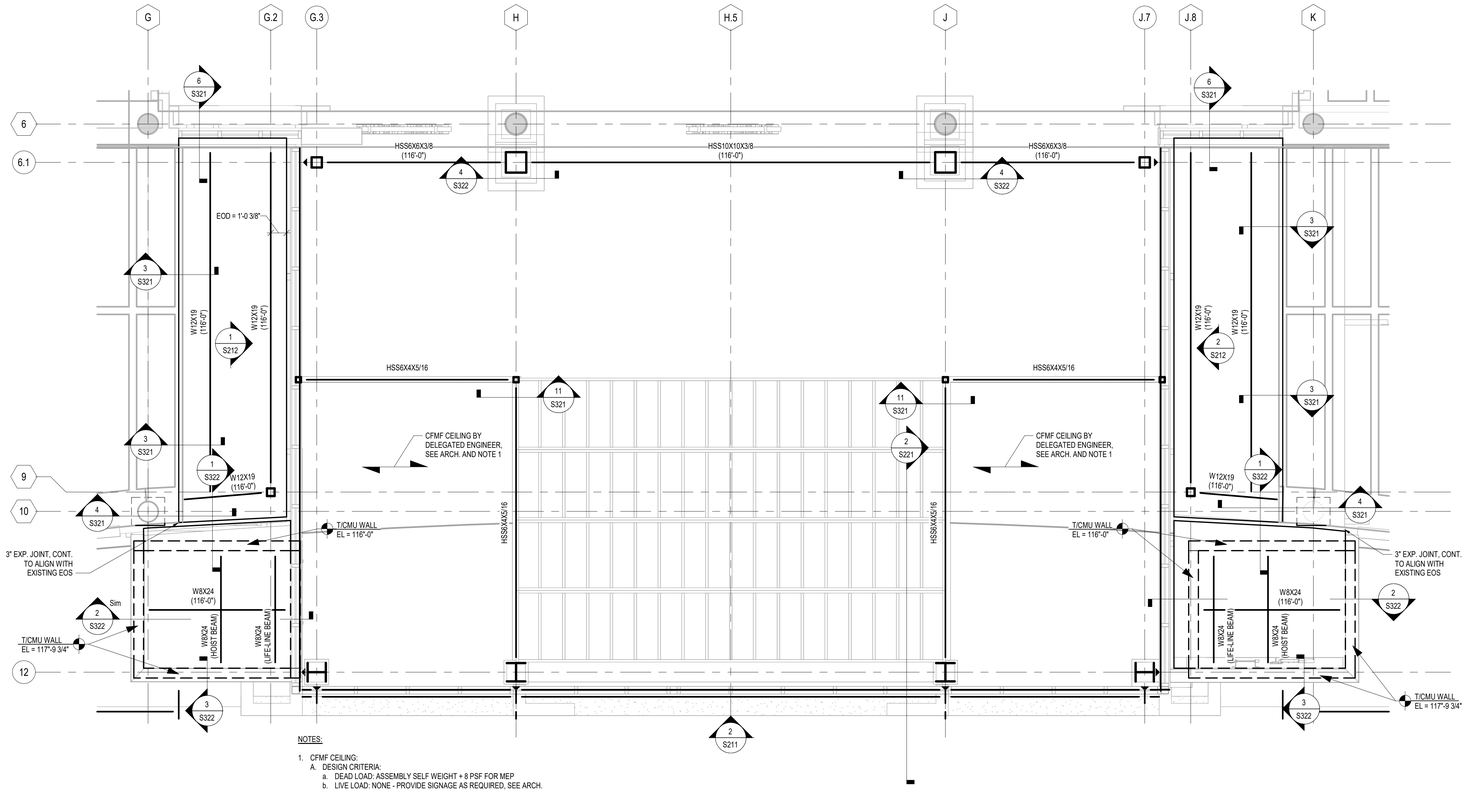


ENLARGED PLAN NOTES:

1. TOP OF STEEL ELEVATION EQUALS 97'-0", UNO.
2. TUNNEL TOP STEEL TO STEEL MEMBER CONNECTIONS, SEE 5/S022
3. W27 TO W30 CONNECTION LOADS (SHEAR LOAD IN KIPS, LRFD) ARE PROVIDED ON PLAN. CONTRACTOR PROVIDE CONNECTION DESIGN, SEE DELEGATED DESIGN NOTES ON S001

1 ENLARGED TICKETING LEVEL PLAN @ TOP OF TUNNEL

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



NOTES:

1. CFMF CEILING:
   A. DESIGN CRITERIA:
      a. DEAD LOAD: ASSEMBLY SELF WEIGHT + 8 PSF FOR MEP
      b. LIVE LOAD: NONE - PROVIDE SIGNAGE AS REQUIRED, SEE ARCH.

2 ENLARGED ADMIN LEVEL PLAN @ LOW ROOF & CLEARSTORY

SCALE: 1/4" = 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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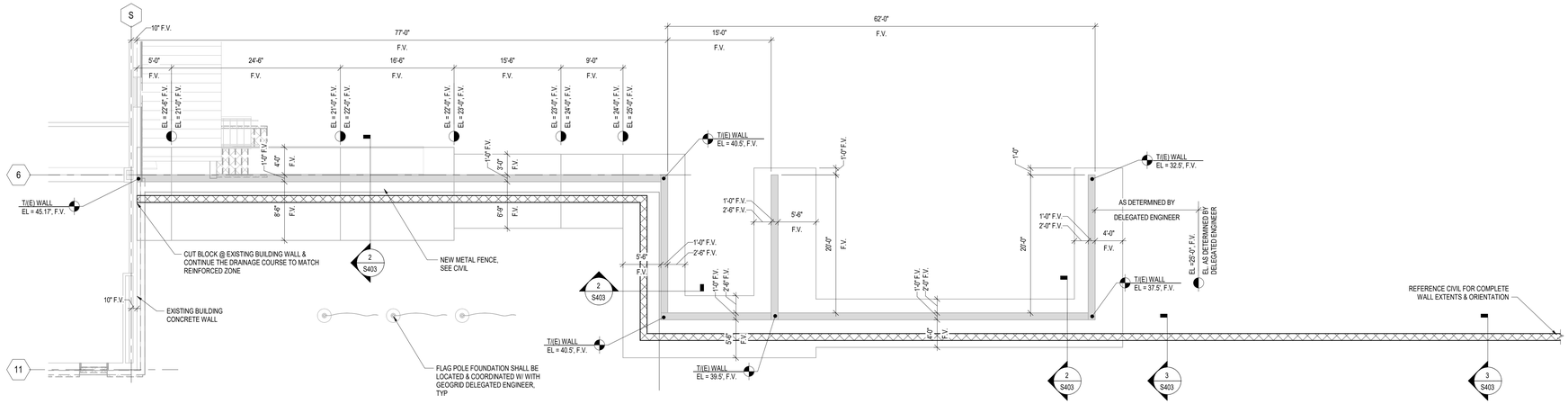
SEAL:
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SHEET TITLE:
ENLARGED PLANS

SHEET ID:
S402

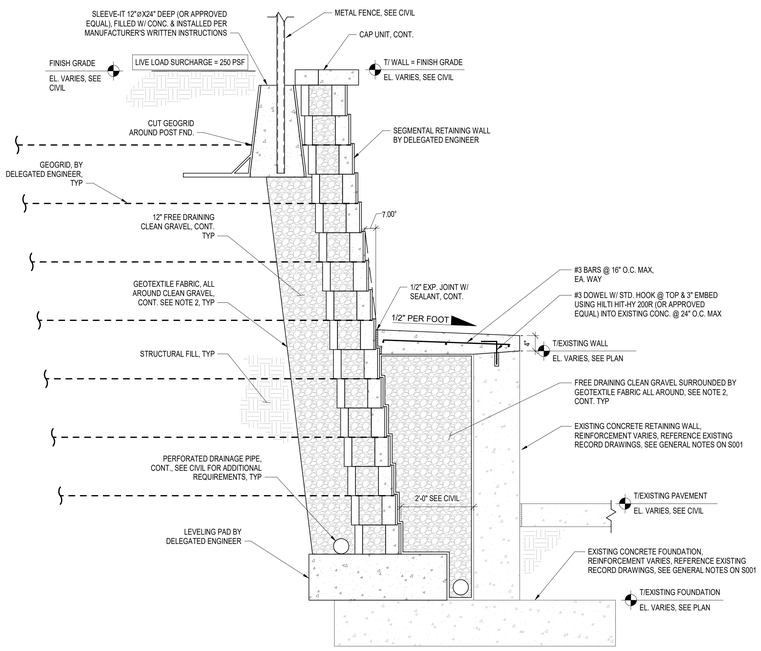
PROJECT STATUS:
100% BID SET

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1 ENLARGED TICKETING LEVEL PLAN @ EXISTING RETAINING WALL

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



NOTES:

1. CONCRETE SEGMENTAL RETAINING WALL DESIGN BY DELEGATED ENGINEER
2. PROVIDE A FREE-DRAINING GEOTEXTILE FABRIC, MIRAFI 160N OR APPROVED EQUAL
3. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY
4. NO REINFORCEMENT SHALL BE CUT/DAMAGED DURING POST-INSTALLED DOWEL INSTALLATION. CONTRACTOR SHALL LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE TESTING AND MARK LOCATION ON SURFACE OF CONCRETE PRIOR TO DRILLING. CONTRACTOR SHALL SUBMIT LOCATION OF EXISTING REINFORCEMENT WITH PROPOSED LOCATION OF DRILLING LOCATIONS FOR RECORD PURPOSES PRIOR TO DRILLING.

2 SECTION @ CONCRETE SEGMENTAL RETAINING WALL SYSTEM

SCALE: N.T.S.

NOTES:

1. CONCRETE SEGMENTAL RETAINING WALL DESIGN BY DELEGATED ENGINEER
2. PROVIDE A FREE-DRAINING GEOTEXTILE FABRIC, MIRAFI 160N OR APPROVED EQUAL
3. ALL STRUCTURAL ELEMENTS ARE NOT SHOWN/IDENTIFIED FOR CLARITY

3 SECTION @ CONCRETE SEGMENTAL RETAINING WALL SYSTEM

SCALE: N.T.S.

GENERAL SHEET NOTES

FOUNDATION PLAN LEGEND

1. EXISTING CONCRETE WALL & FOUNDATION
2. FOUNDATION STEP — HIGH ELEV. / LOW ELEV.
3. NEW CONCRETE SEGMENTAL RETAINING WALL

SHEET NOTES

1. ALL EXISTING INFORMATION SHALL BE FIELD VERIFIED PRIOR TO SUBMITTALS TO EOR.
2. ELEVATIONS SHOWN ARE ACTUAL ELEVATIONS PER NAVD-88, REFERENCE CIVIL FOR ADDITIONAL INFORMATION.
3. REFERENCE GEOTECHNICAL REPORT (SEE EARTHWORK NOTES) FOR ADDITIONAL SOIL INFORMATION.

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Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
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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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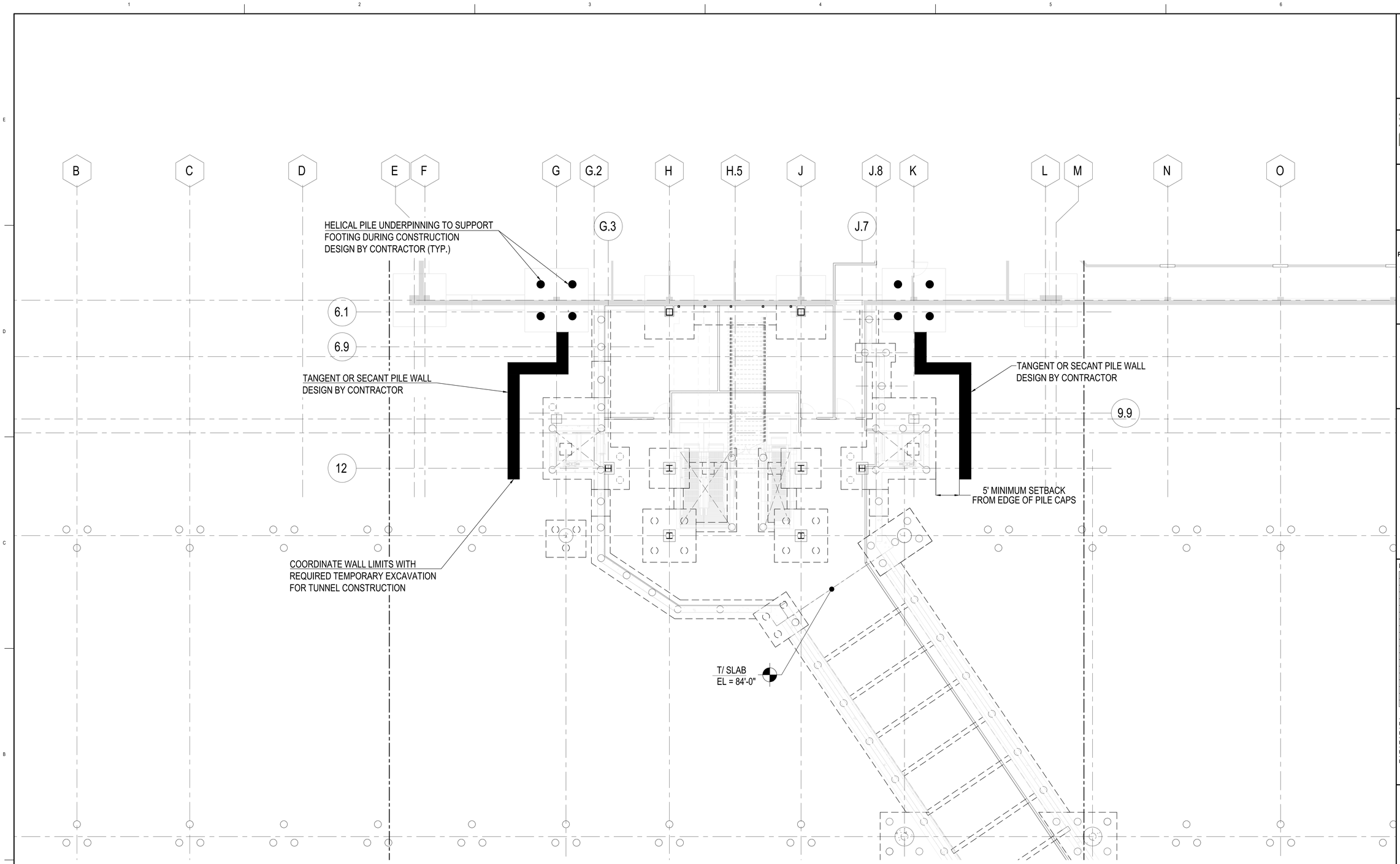
SHEET TITLE:
ENLARGED PLAN & SECTIONS - RETAINING WALL

SHEET ID:
S403

PROJECT STATUS:
100% BID SET

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1 PARTIAL RAMP LEVEL - SUPPORT OF EXCAVATION PLAN - CONNECTOR

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

8 0 8 16

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

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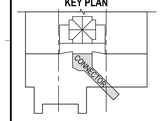
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PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVMEENTS - PHASE II

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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	DAS
DRAWN BY:	MJT
DESIGNED BY:	MJT

PROJECT NUMBER:
2003-0070-006

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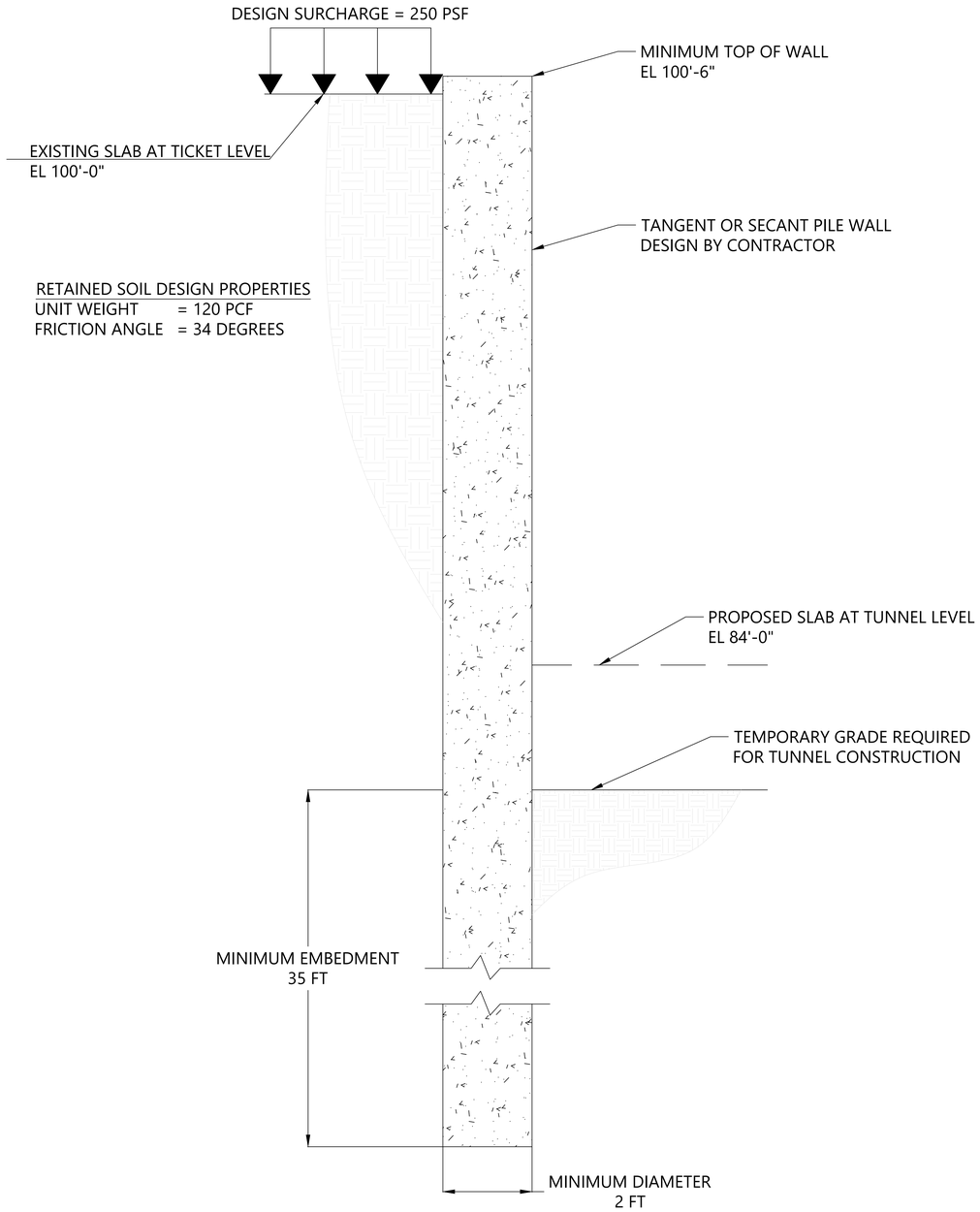
SHEET TITLE:
SUPPORT OF EXCAVATION PLAN - PARTIAL RAMP LEVEL - CONNECTOR

SHEET ID:
S500

PROJECT STATUS:
100% BID SET

SCE Typical Drawings.dwg
2/11/2025 3:59:48 AM

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TANGENT/SECANT PILE WALL TYPICAL ELEVATION
NOT TO SCALE

NOTES: PROVIDED DIMENSIONS ARE MINIMUM VALUES ONLY. DESIGN OF WALL, INCLUDING PILE DIAMETER, EMBEDMENT AND REINFORCEMENT ARE THE RESPONSIBILITY OF THE CONTRACTOR.

CONTRACTOR TO DEWATER TO MAINTAIN GROUNDWATER LEVELS BELOW BOTTOM OF EXCAVATION OR OTHERWISE DESIGN WALL TO RESIST HYDROSTATIC PRESSURES.

SEISMIC DESIGN PARAMETERS (PER ASCE 7-16, SITE CLASS D):

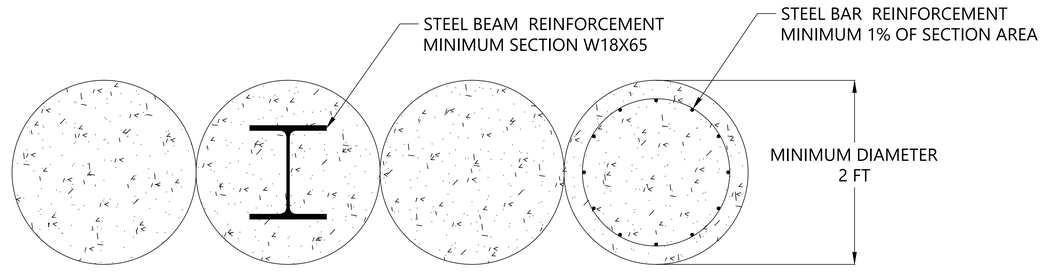
S_{DS} = 0.163 g
S_{D1} = 0.108 g
PGA_M = 0.122 g

DESIGN WALL FOR A MAXIMUM HORIZONTAL DEFLECTION OF 1.5% OF WALL HEIGHT OR 2 INCHES, WHICHEVER IS LESS.

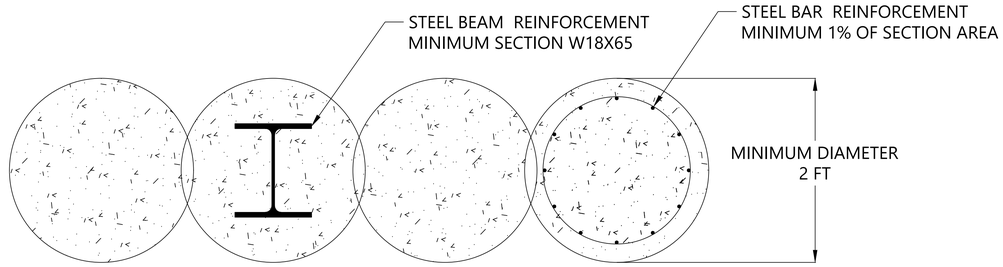
CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.

STEEL BEAMS SHALL MEET ASTM A572 GRADE 50 AND REINFORCING BAR SHALL MEET ASTM A615 GRADE 60.

THE DESIGN (INCLUDING DRAWINGS AND CALCULATIONS) FOR THE SOE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL AT LEAST 30 DAYS PRIOR TO INSTALLATION. THE CONSTRUCTION PLAN SHALL BE SUBMITTED FOR REVIEW AND APPROVAL AT LEAST 30 DAYS PRIOR TO INSTALLATION.



TANGENT PILE WALL TYPICAL SECTION
NOT TO SCALE



SECANT PILE WALL TYPICAL SECTION
NOT TO SCALE

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ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	DAS
DRAWN BY:	MJT
DESIGNED BY:	MJT

PROJECT NUMBER:
2003-0070-006

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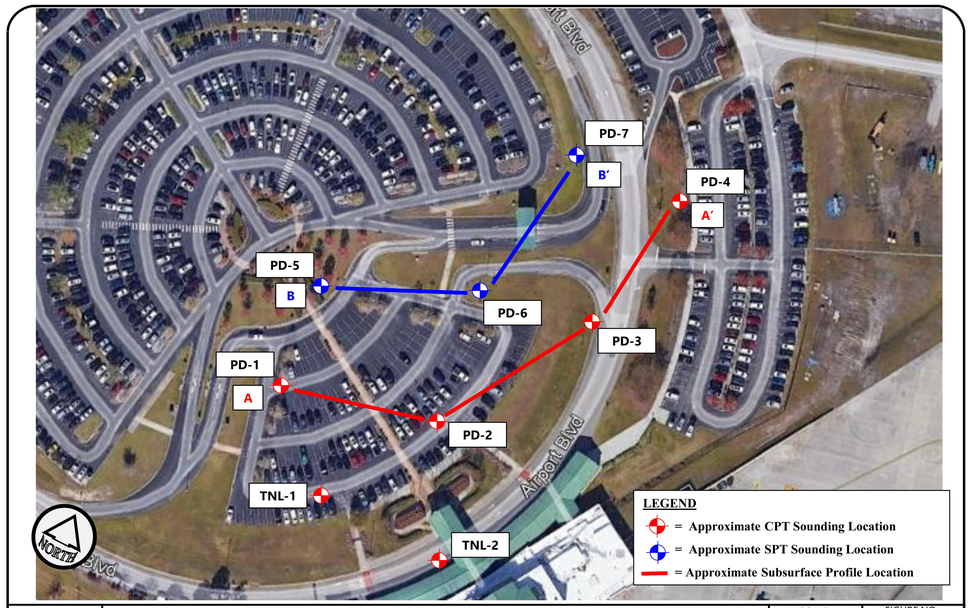
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SUPPORT OF EXCAVATION ELEVATION & DETAILS

SHEET ID:
S501

PROJECT STATUS:
100% BID SET

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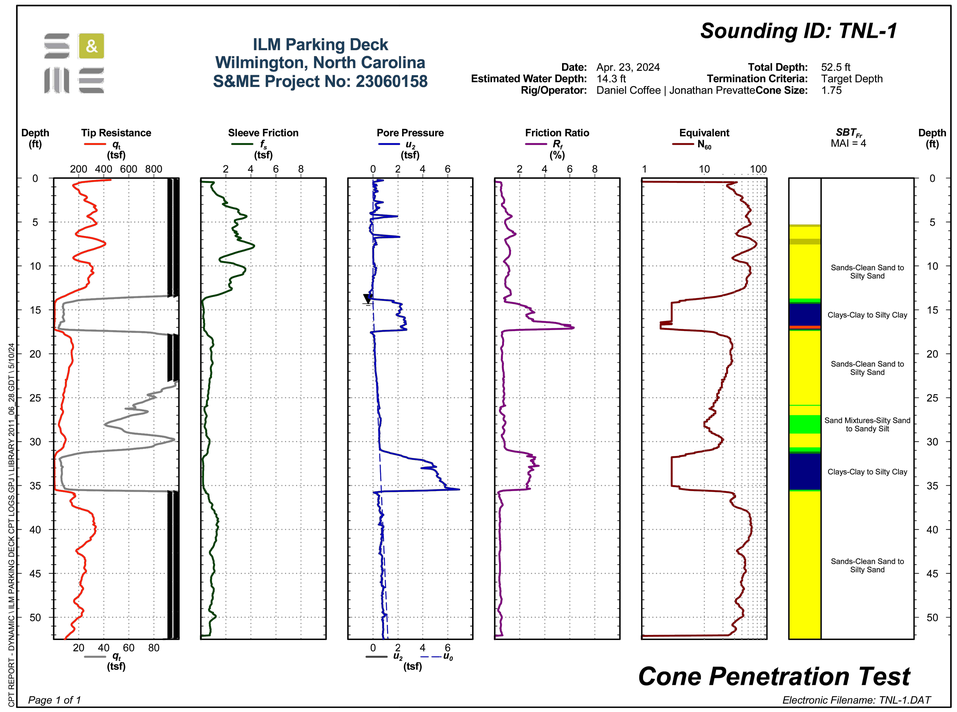


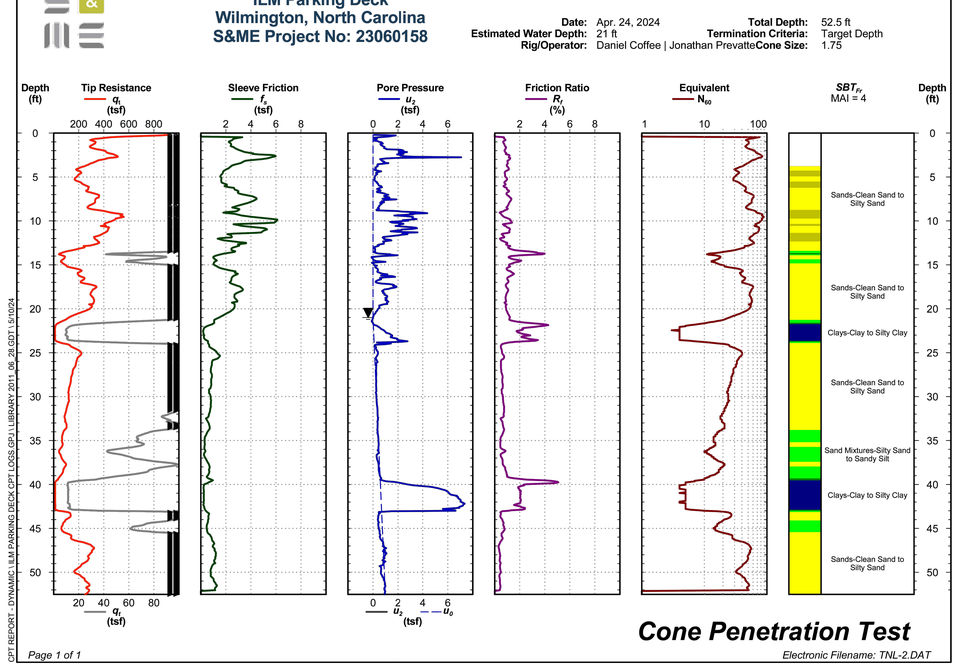
Test Location Sketch

ILM Parking Deck
Wilmington, North Carolina

SCALE: AS SHOWN
DATE: 4/29/2024
PROJECT NUMBER 23060158

FIGURE NO. 2





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Wilmington, NC 28405
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NC FIRM LICENSE NO. F-0176

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: DAS
DRAWN BY: MJT
DESIGNED BY: MJT
PROJECT NUMBER: 2003-0070-006

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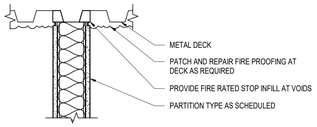
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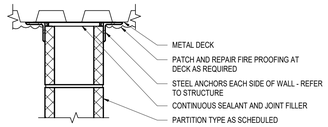
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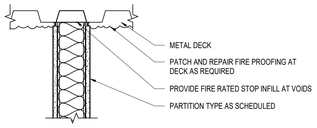
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HEAD DETAIL @ STUD WALL AND MTL DECK



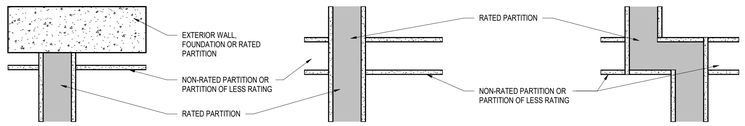
HEAD DETAIL @ CMU WALL AND MTL DECK



HEAD DETAIL @ STUD WALL AND MTL DECK

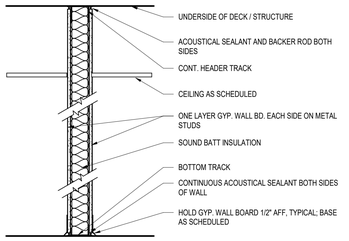
E3 HEAD DETAILS - FIRE RATED - HORIZONTAL

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



C3 RATED PARTITION CONTINUITY - HORIZONTAL

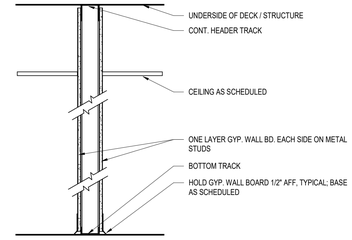
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A#-D PARTITION TYPE

A#-D PARTITION TYPE SCHEDULE

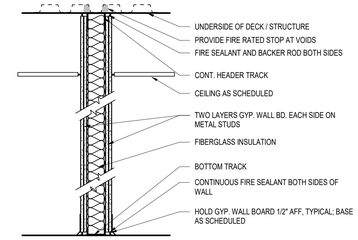
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
A3-D	3 5/8" MTL STUD, 5/8" GWB, BATT INSULATION	-	-	-	40	
A4-D	3 5/8" METAL STUD, 5/8" BACKER BOARD, 1" TILE BOTH SIDES	-	-	-	40	
A5-D	3 5/8" METAL STUD, 5/8" BACKER BOARD, 1" TILE ONE SIDE, 5/8" GWB ONE SIDE	-	-	-	40	



B#-D PARTITION TYPE

B#-D PARTITION TYPE SCHEDULE

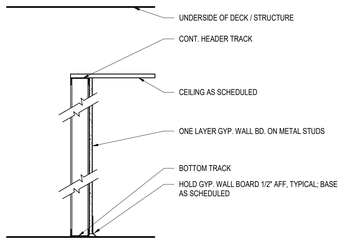
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
B3-D	3 5/8" MTL STUD, 5/8" GWB ON BOTH SIDES	-	-	-	-	
B6-D	6" METAL STUD, 5/8" GWB BOTH SIDES	-	-	-	-	



R#-D PARTITION TYPE

R#-D PARTITION TYPE SCHEDULE

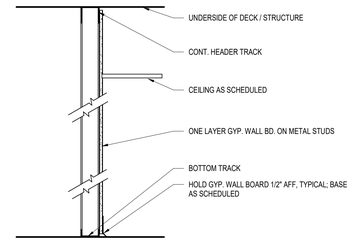
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
R3-D	3 5/8" METAL STUD, FIBERGLASS INSULATION, 5/8" GWB BOTH SIDES	2 HR	U419		51	



F#-C PARTITION TYPE

F#-C PARTITION TYPE SCHEDULE

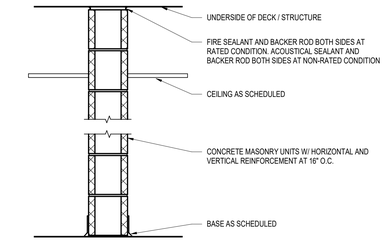
TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
F1-C	1 5/8" METAL STUD, 5/8" GWB ONE SIDE	-	-	-	-	
F3-C	3 5/8" MTL STUD, 5/8" GWB ONE SIDE	-	-	-	-	
F4-C	3 5/8" METAL STUD, 5/8" BACKER BOARD, 1" TILE ONE SIDE	-	-	-	-	



F#-D PARTITION TYPE

F#-D PARTITION TYPE SCHEDULE

TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
F0-D	7/8" METAL HAT CHANNEL, 5/8" GWB ONE SIDE	-				
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	-				



M#-D PARTITION TYPE

M#-D PARTITION TYPE SCHEDULE

TYPE MARK	DESCRIPTION	FIRE RATING	UL No.	HEAD UL No.	STC	TYPE
M6-D	6" CMU	-	-	-	-	

1 0 1

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

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
WALL TYPE (MATERIAL/USE) — HEAD CONDITION

RATED PARTITION TAG

RS3-1
WALL TYPE (MATERIAL/USE) — 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:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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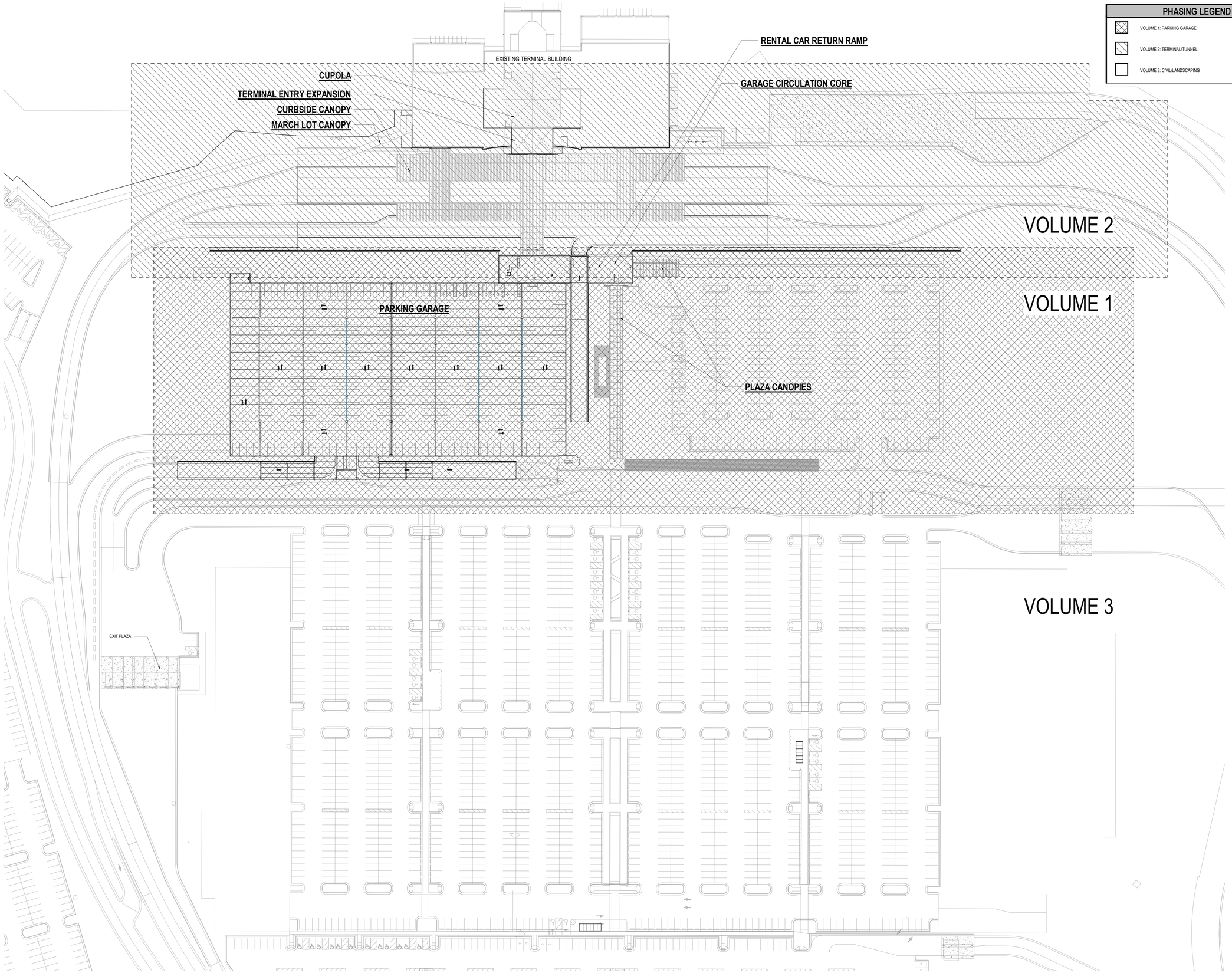
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PARTITION TYPES

SHEET ID:
A001

PROJECT STATUS:
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PHASING LEGEND

- VOLUME 1: PARKING GARAGE
- VOLUME 2: TERMINAL/TUNNEL
- VOLUME 3: CIVIL/LANDSCAPING

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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:	TP
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET ID:
AS101

PROJECT STATUS:
100% BID SET

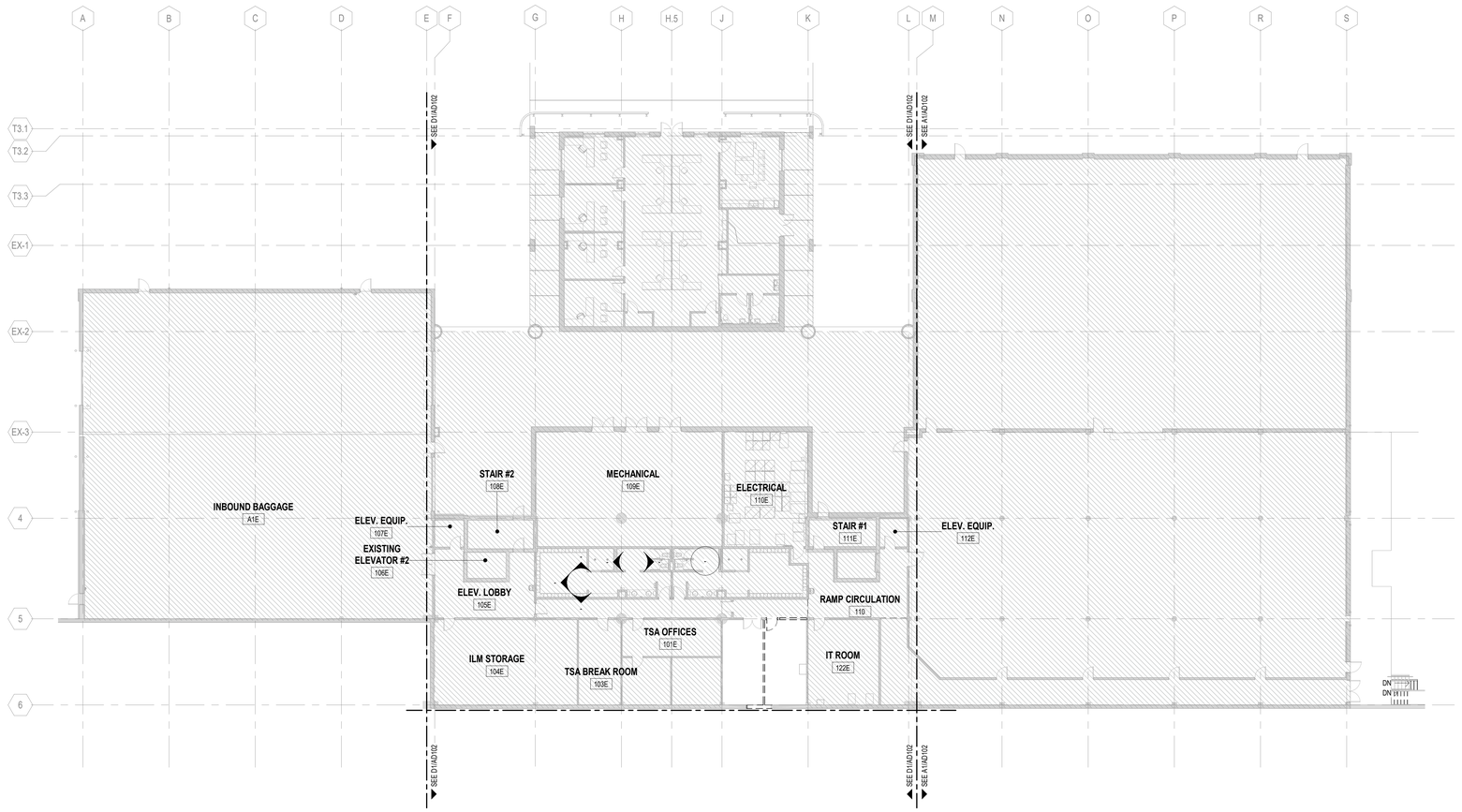
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A1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 50'-0"

50 0 50 100
SCALE: 1" = 50'-0"

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PN

N

A1 OVERALL RAMP LEVEL DEMOLITION PLAN

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

C4 A301

C4 A301

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.

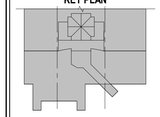
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ILM

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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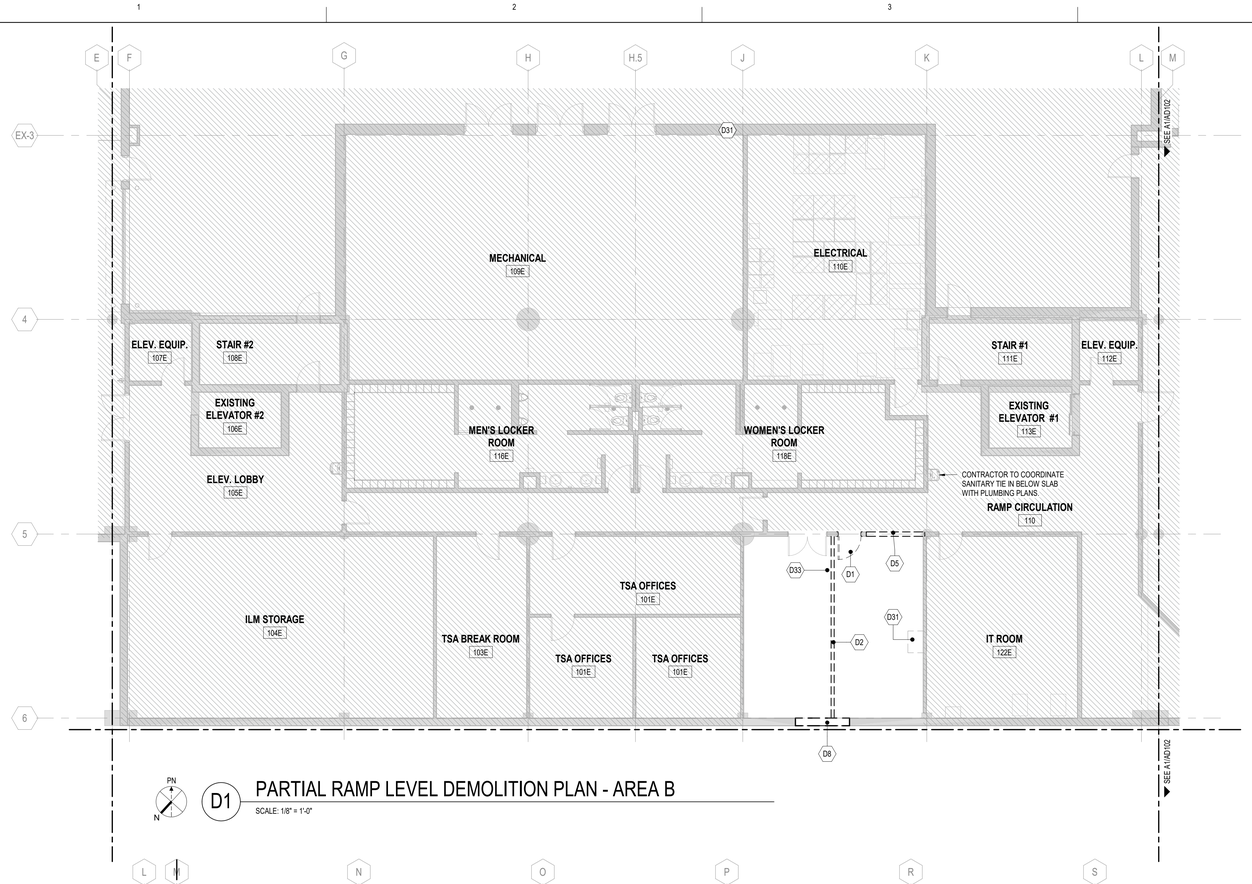
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OVERALL RAMP LEVEL DEMOLITION PLAN

SHEET ID:
AD101

PROJECT STATUS:
100% BID SET

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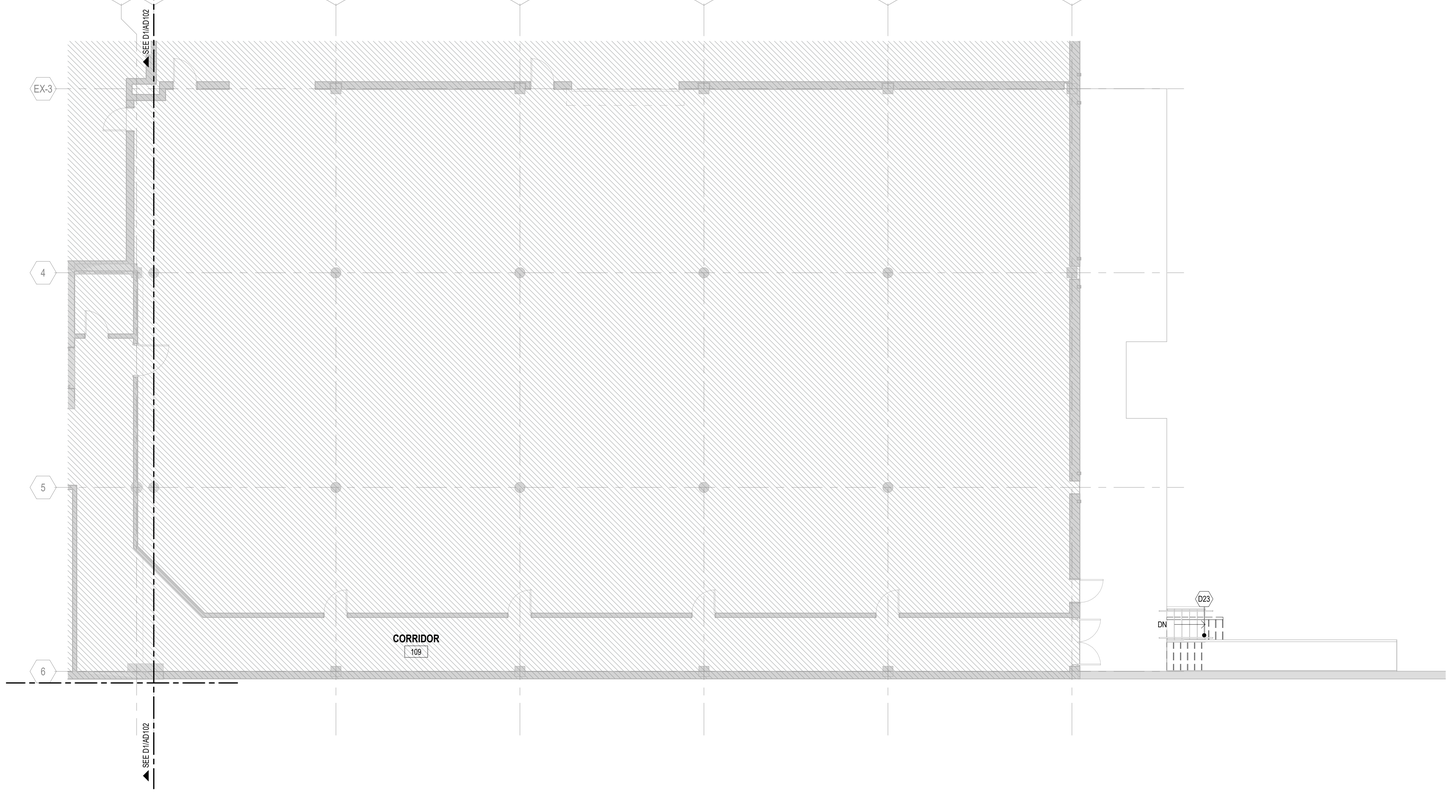
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PN N

D1 PARTIAL RAMP LEVEL DEMOLITION PLAN - AREA B

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



PN N

A1 PARTIAL RAMP LEVEL DEMOLITION PLAN - AREA C

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.
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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.
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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.
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.
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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.
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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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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D1	DEMOLISH EXISTING DOOR, PATCH AND REPAIR AS REQUIRED TO PREPARE FOR NEW FINISH AS SHOWN NEW WORK PLANS.
D2	DEMOLISH EXISTING WALL, PATCH AND REPAIR AS REQUIRED.
D5	DEMOLISH PORTION OF EXISTING WALL, PATCH AND REPAIR AS REQUIRED.
D8	DEMOLISH EXISTING WALL, PATCH AND REPAIR AS NEEDED TO CREATE OPENING TO NEW CONNECTOR.
D23	DEMOLISH EXISTING STAIR IN PREPARATION FOR NEW STAIR PER NEW WORK PLANS.
D31	DEMOLISH EXISTING MECHANICAL SUPPLIES AND EXHAUSTS. SEE MECHANICAL FOR DETAILS, TYP.
D33	CONTRACTOR TO REPLACE ANY DEMOLISHED FINISHES TO MATCH EXISTING.

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

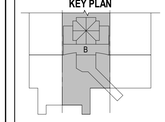
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ILM

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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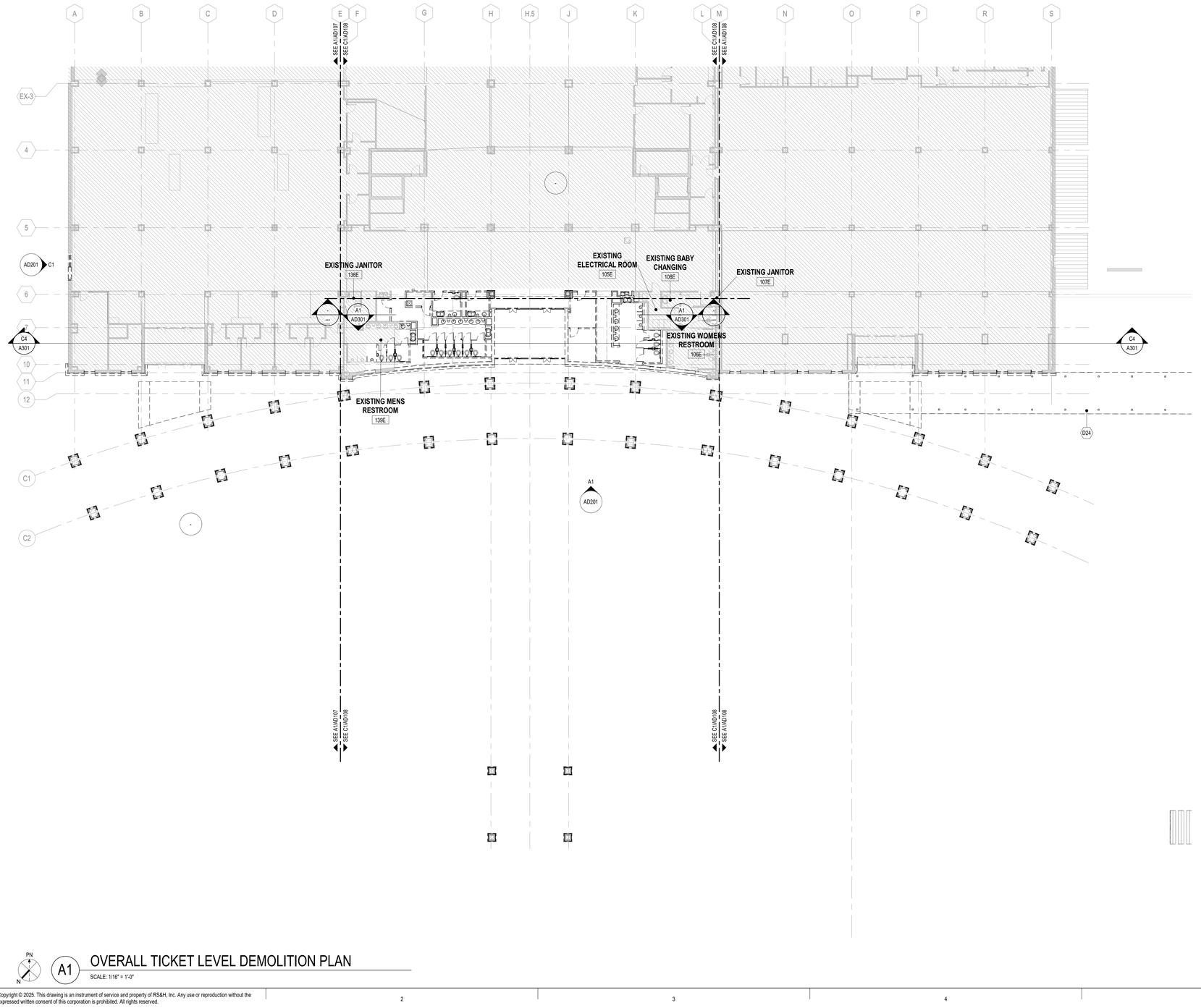
SHEET TITLE:
PARTIAL RAMP LEVEL DEMOLITION PLAN - AREA B & AREA C

SHEET ID:
AD102

PROJECT STATUS:
100% BID SET

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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D24	EXISTING TEMPORARY CANOPY CONSTRUCTED DURING PHASE 1B TO BE DEMOLISHED.

DEMOLITION PLAN LEGEND

PARTITION LEGEND

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- EXISTING CONSTRUCTION TO REMAIN
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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"

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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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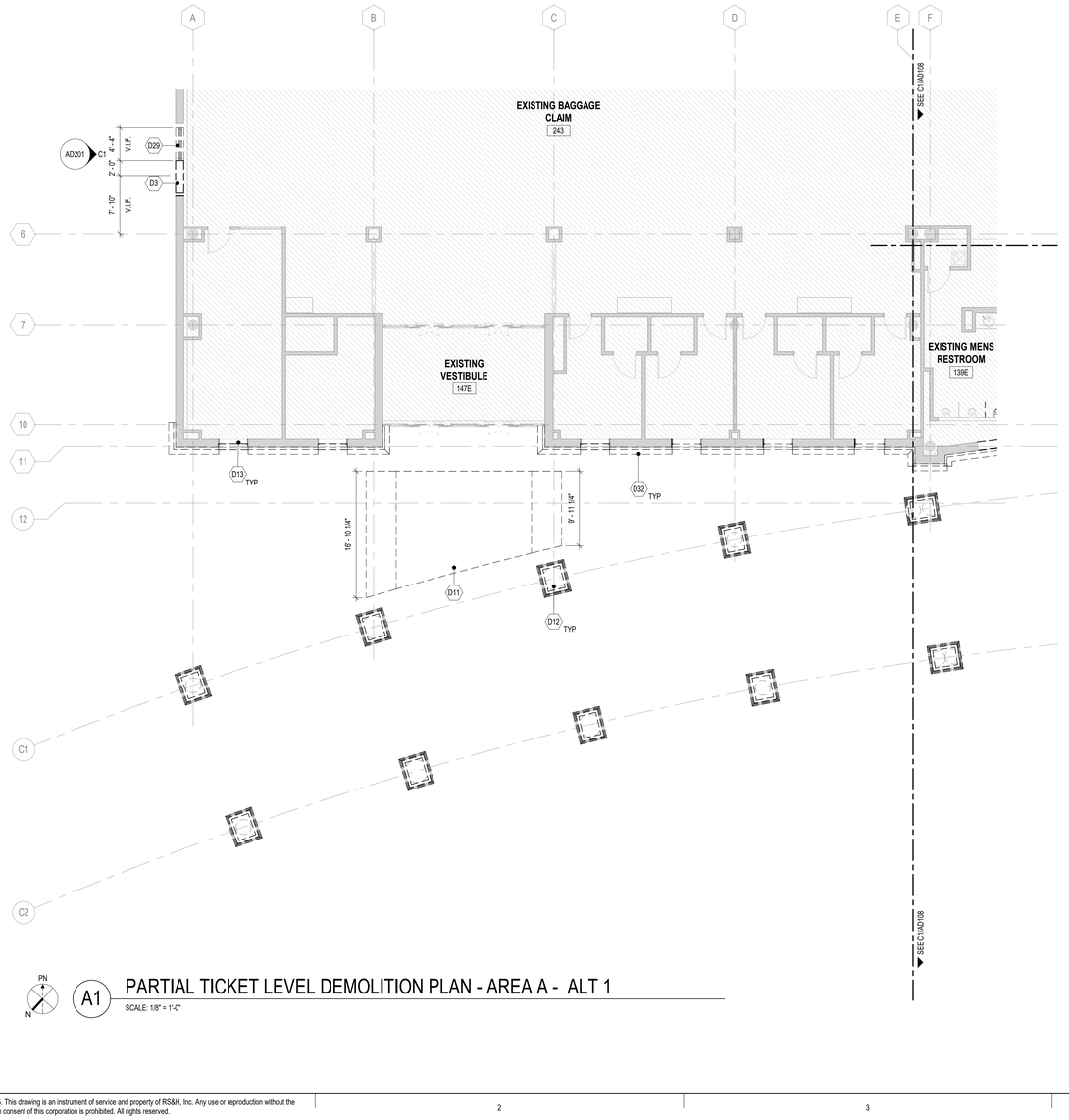
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SHEET TITLE:
OVERALL TICKET LEVEL DEMOLITION PLAN

SHEET ID:
AD106

PROJECT STATUS:
100% BID SET

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PN
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A1 PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA A - ALT 1

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

DEMOLITION PLAN LEGEND

PARTITION LEGEND

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

KEY VALUE	KEYNOTE TEXT
D3	DEMOLISH EXISTING WALL, PATCH AND REPAIR AS NEEDED IN PREPARATION FOR NEW DOOR.
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.
D29	DEMOLISH EXISTING WINDOW AND PREPARE OPENING FOR NEW DOOR PER NEW WORK PLANS.
D32	DEMOLISH EXISTING BRICK WAINSCOT IN PREPARATION FOR NEW TABBU PLASTER APPLICATION. SEE A503 FOR DETAILS.

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

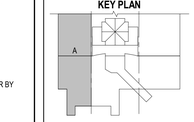
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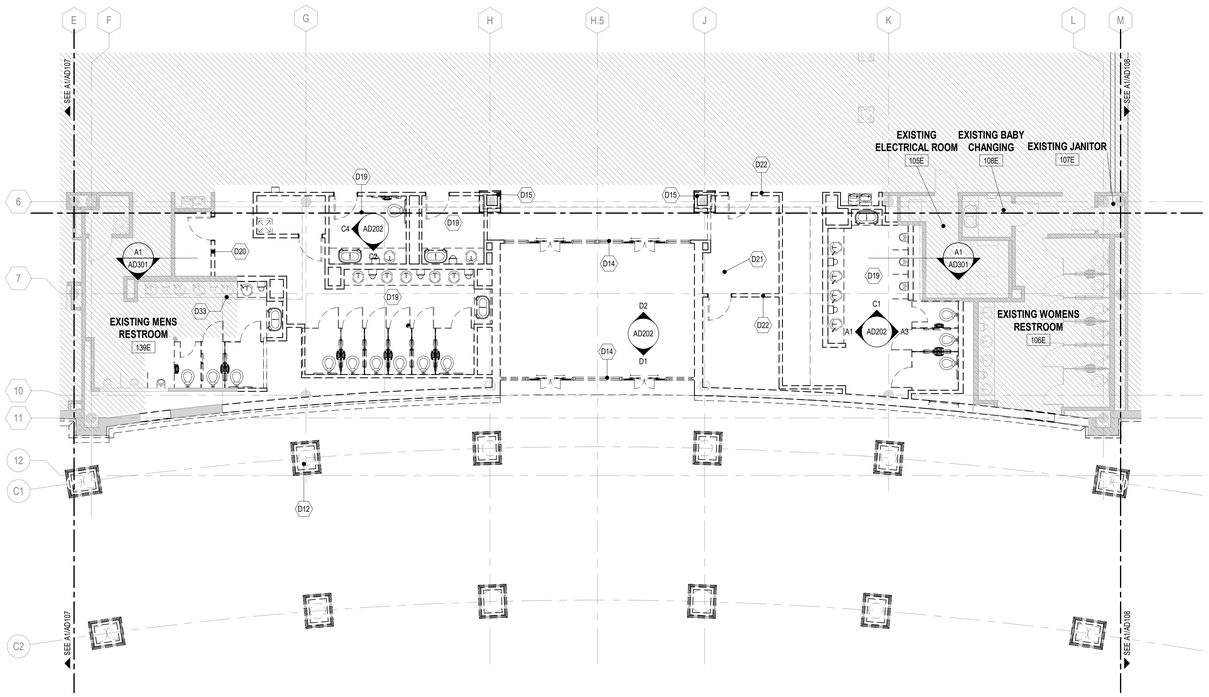
SHEET TITLE:
PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA A

SHEET ID:
AD107

PROJECT STATUS:
100% BID SET

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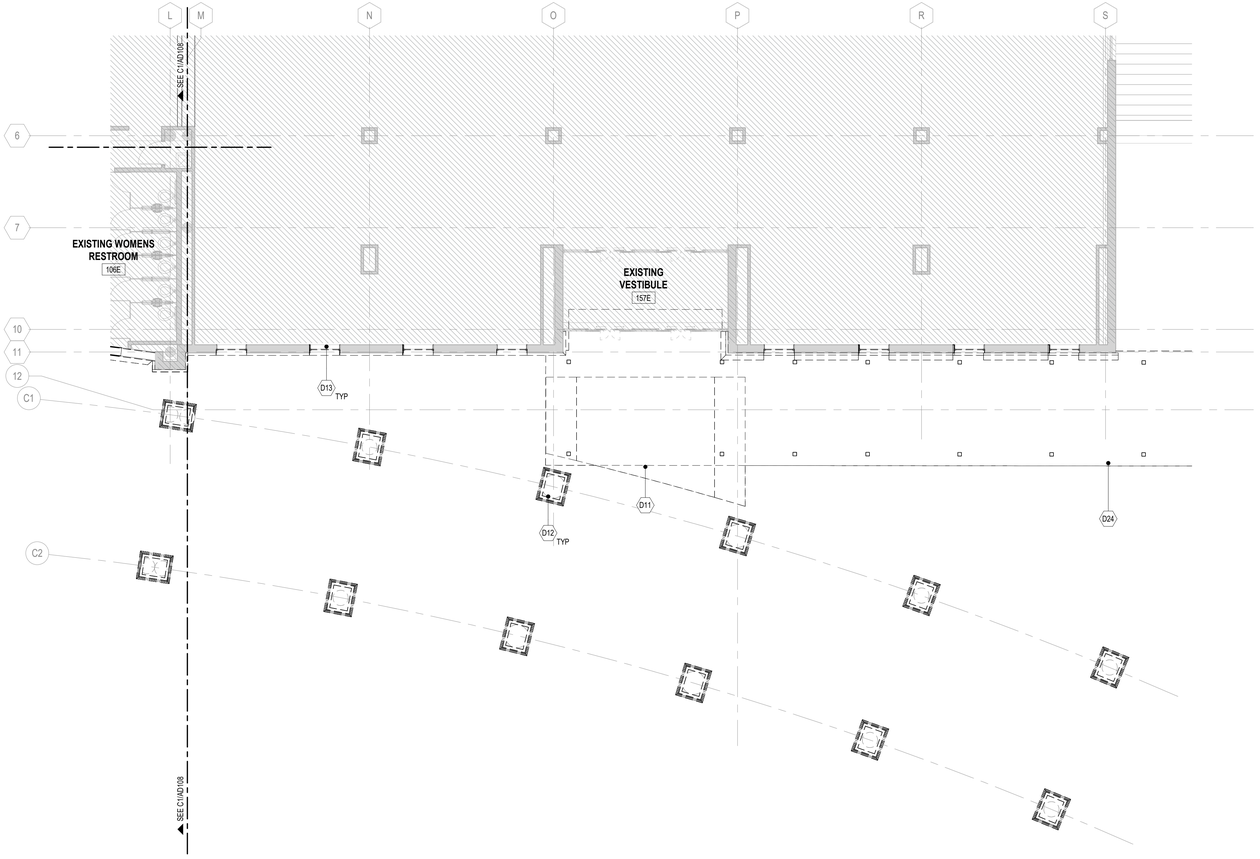
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PN

C1 PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA B

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



PN

A1 PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA C

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.
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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.
16. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF EXISTING CONSTRUCTION OR COLUMN CENTER LINE UNLESS NOTED OTHERWISE (U.N.O.)
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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.
D14	DEMOLISH EXISTING GLAZING AND SLIDING DOORS.
D15	DEMOLISH EXISTING COLUMN WRAP.
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.
D24	EXISTING TEMPORARY CANOPY CONSTRUCTED DURING PHASE 1B TO BE DEMOLISHED.
D33	CONTRACTOR TO REPLACE ANY DEMOLISHED FINISHES TO MATCH EXISTING.

8 0 8 16

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

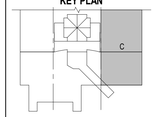
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ILM

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: SG
DRAWN BY: KS
DESIGNED BY: FG
PROJECT NUMBER:
1003-0070-004

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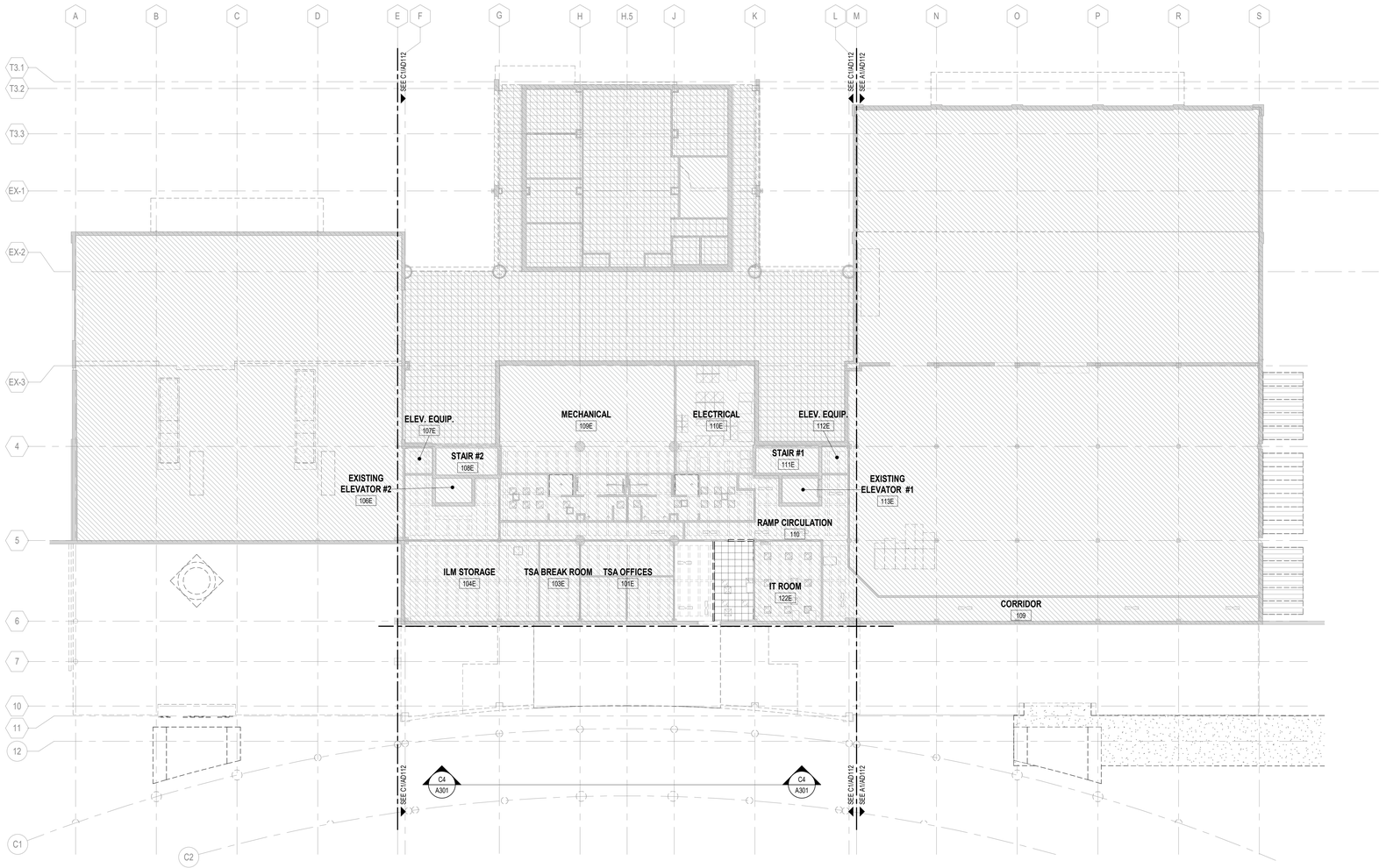
SHEET TITLE:
PARTIAL TICKET LEVEL DEMOLITION PLAN - AREA B & AREA C

SHEET ID:
AD108

PROJECT STATUS:
100% BID SET

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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
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DEMOLITION PLAN LEGEND

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PN

A1 OVERALL RAMP LEVEL DEMOLITION REFLECTED CEILING PLAN

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

16 0 16 32

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

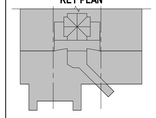
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ILM

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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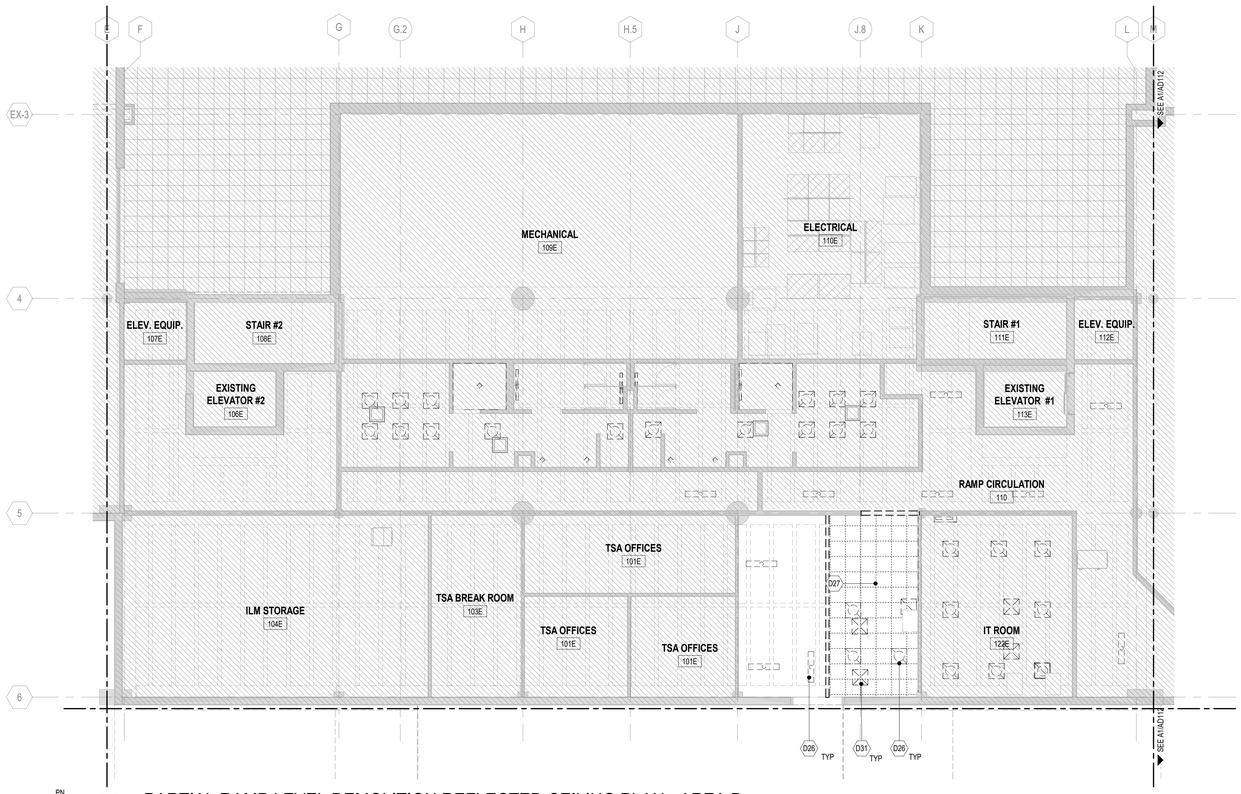
SHEET TITLE:
OVERALL RAMP LEVEL DEMOLITION REFLECTED CEILING PLAN

SHEET ID:
AD111

PROJECT STATUS:
100% BID SET

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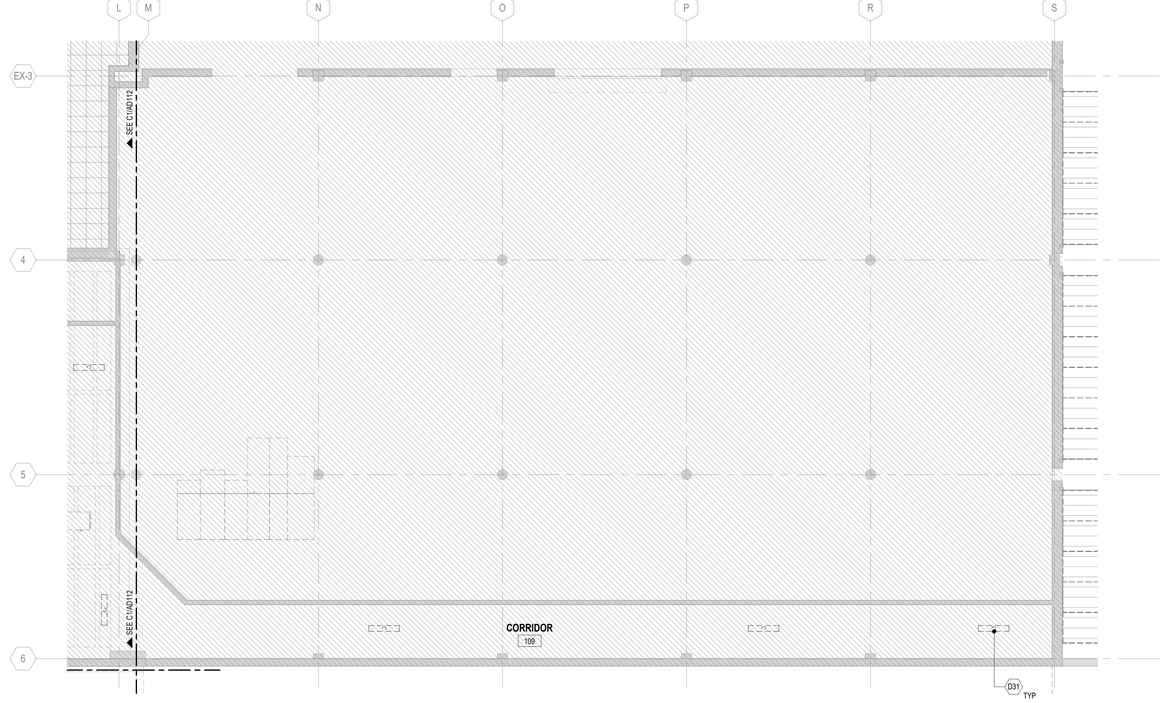


PN

N

C1 PARTIAL RAMP LEVEL DEMOLITION REFLECTED CEILING PLAN - AREA B

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



PN

N

A1 PARTIAL RAMP LEVEL DEMOLITION REFLECTED CEILING PLAN - AREA C

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DEMOLITION CEILING PLAN LEGEND

CEILING TYPES

- 2' X 2' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
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DEMOLITION PLAN LEGEND

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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D26	DEMOLISH EXISTING LIGHTING. SEE ELECTRICAL FOR DETAILS, TYP.
D27	DEMOLISH EXISTING CEILING.
D31	DEMOLISH EXISTING MECHANICAL SUPPLIES AND EXHAUSTS. SEE MECHANICAL FOR DETAILS, TYP.

8 0 8 16

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

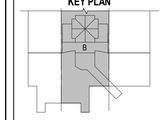
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F-0493 * C-28

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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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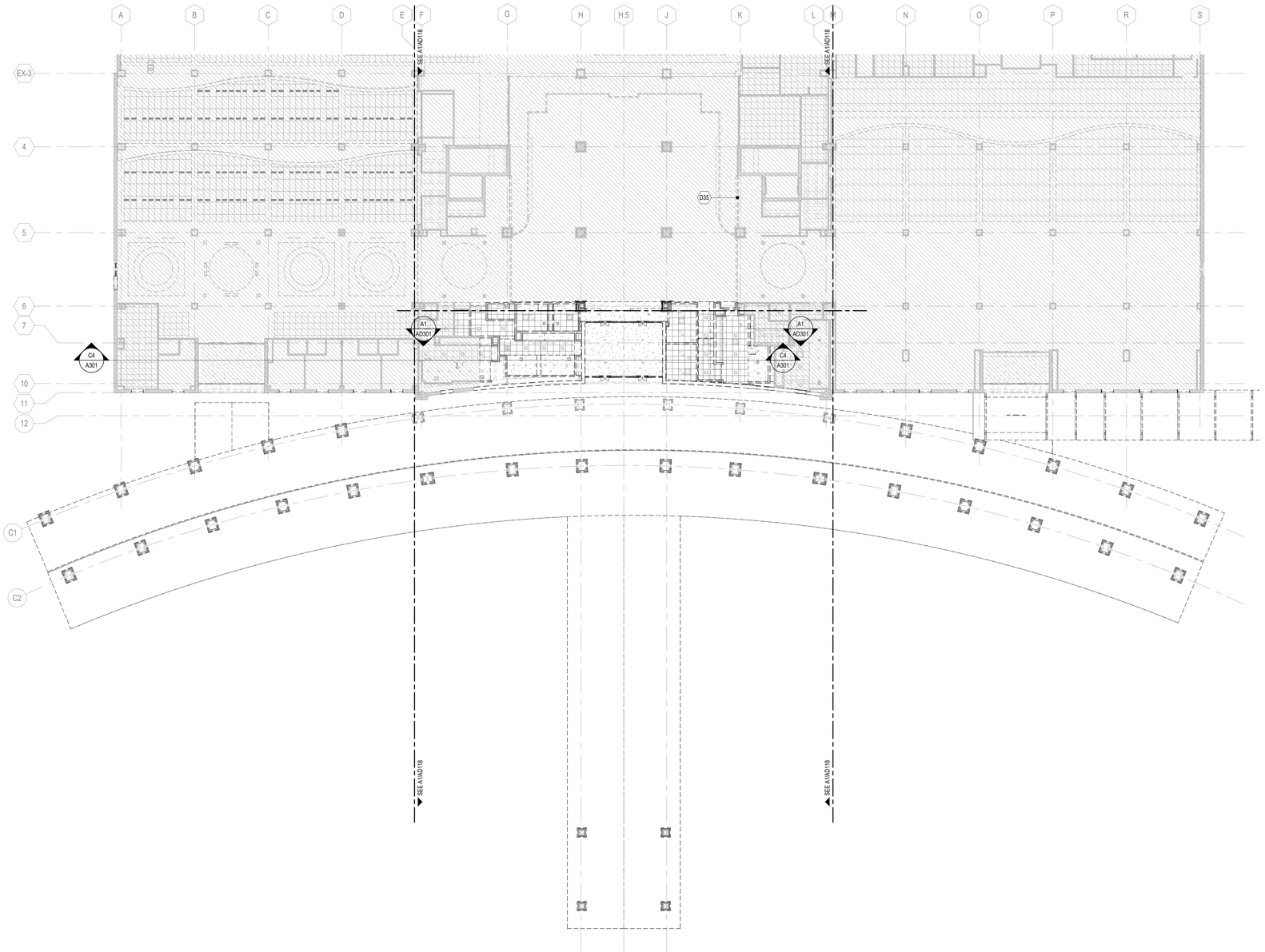
SHEET TITLE:
PARTIAL RAMP LEVEL DEMOLITION REFLECTED CEILING PLAN - AREA B & AREA C

SHEET ID:
AD112

PROJECT STATUS:
100% BID SET

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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.

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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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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D35	CONTRACTOR TO DEMO PORTION OF WALL TO PREP FOR NEW MECHANICAL DIFFUSER, PATCH AND REPAIR TO MATCH EXISTING CONDITION. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFO.

PN

N

A1 OVERALL TICKET LEVEL DEMOLITION REFLECTED CEILING PLAN

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

16 0 16 32

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

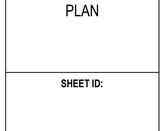
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ILM

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: SG
DRAWN BY: KS
DESIGNED BY: FG
PROJECT NUMBER:
1003-0070-004

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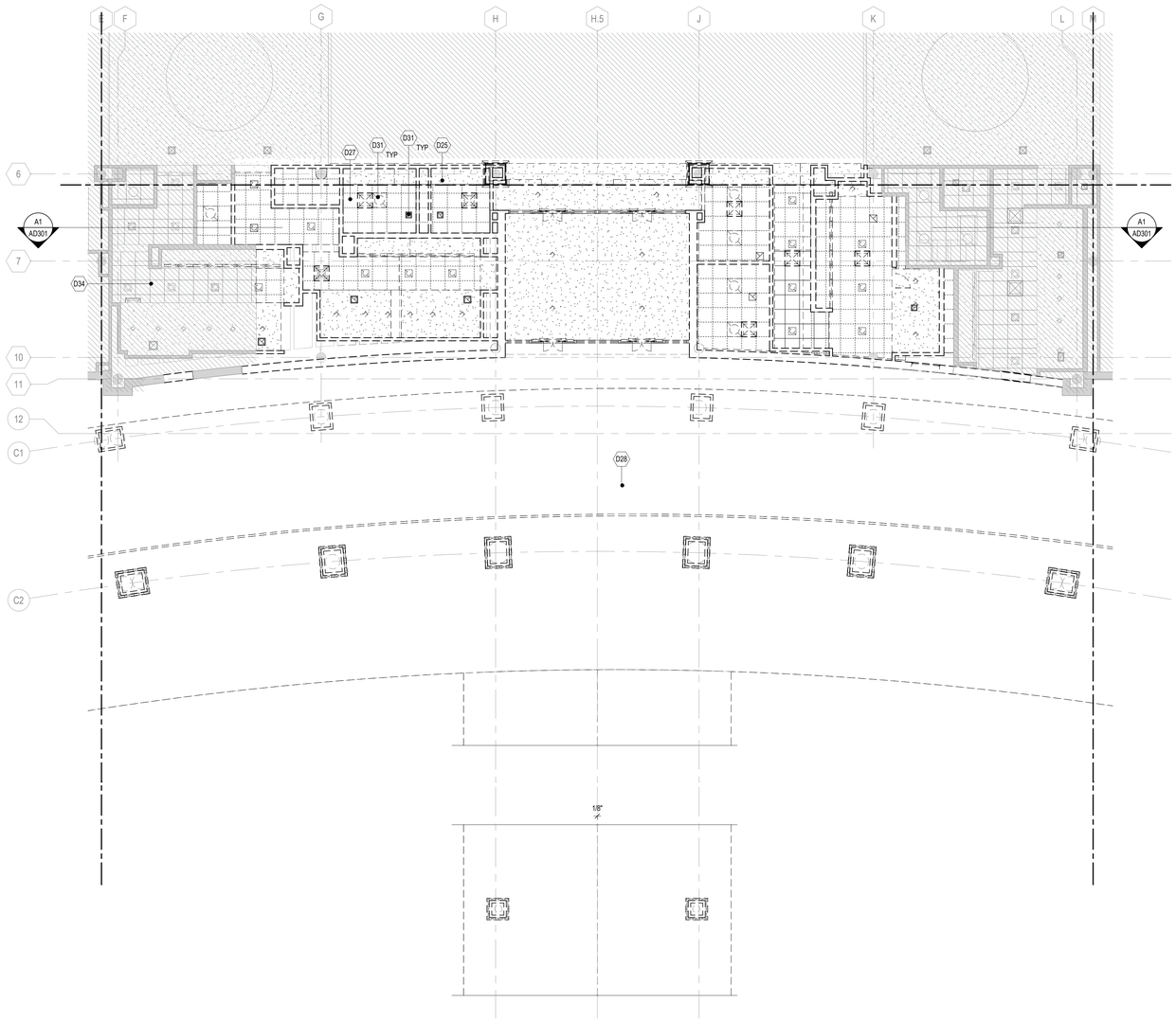
SHEET TITLE:
OVERALL TICKET LEVEL DEMOLITION REFLECTED CEILING PLAN

SHEET ID:
AD116

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
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- OPEN TO ABOVE

DEMOLITION PLAN LEGEND

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

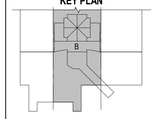
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ILM

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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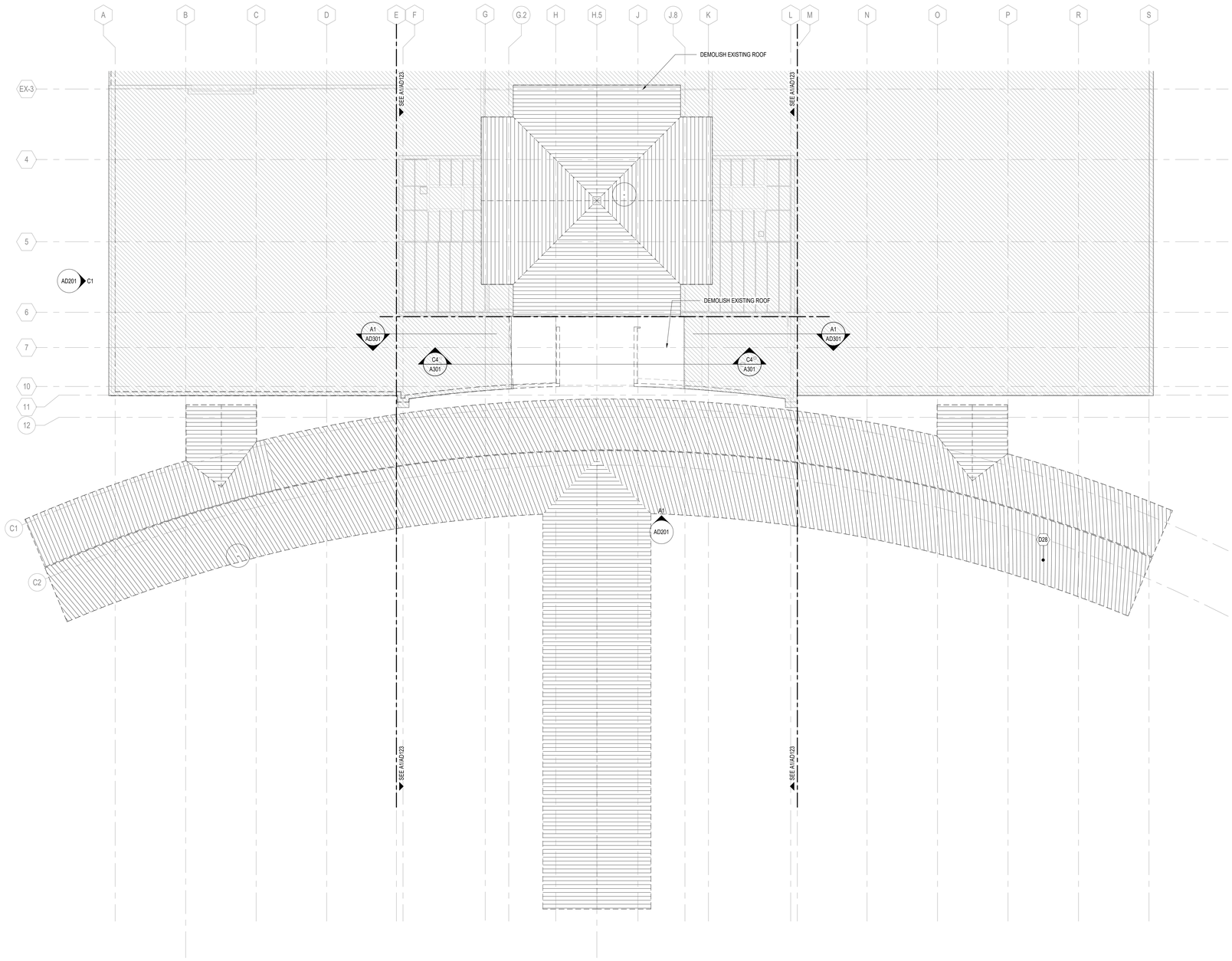
SHEET TITLE:
PARTIAL TICKET LEVEL DEMOLITION REFLECTED CEILING PLAN - AREA B

SHEET ID:
AD118

PROJECT STATUS:
100% BID SET

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PN

N

A1 OVERALL ROOF 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
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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.
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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
D28	DEMOLISH EXISTING CANOPY IN PREPARATION FOR NEW CANOPY.

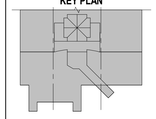
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F-0493 * C-28

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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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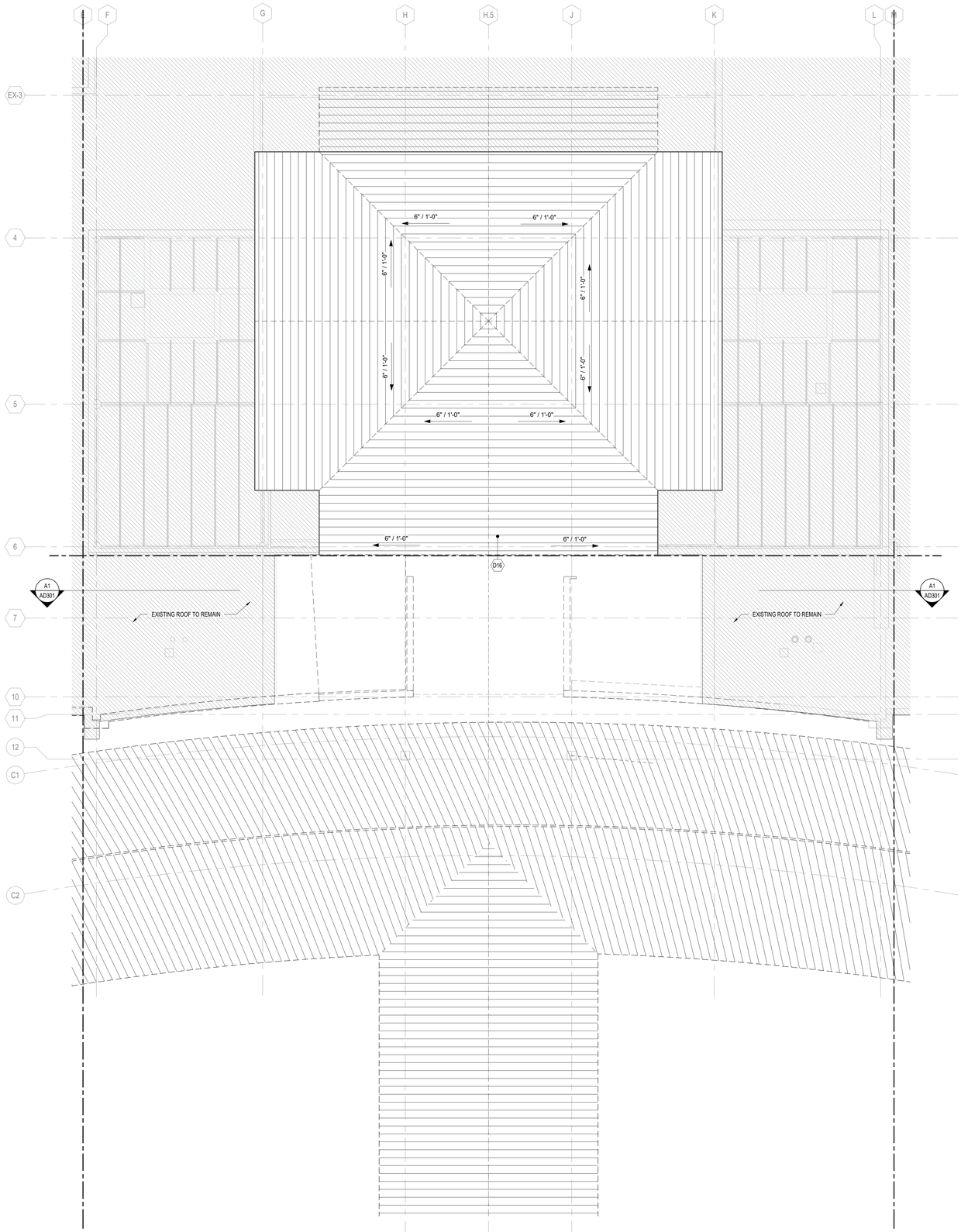
SHEET TITLE:
OVERALL ROOF DEMOLITION PLAN

SHEET ID:
AD121

PROJECT STATUS:
100% BID SET

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PN

A1 PARTIAL ROOF 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.
- 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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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.
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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D16	DEMOLISH EXISTING CUPOLA ROOFING IN PREP FOR NEW ROOFING, N.I.C.

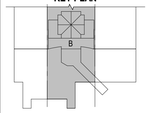
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ILM

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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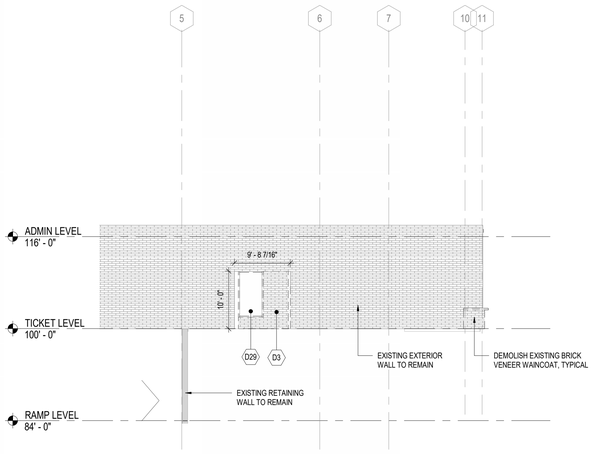
SHEET TITLE:
PARTIAL ROOF DEMOLITION PLAN - AREA B

SHEET ID:
AD123

PROJECT STATUS:
100% BID SET

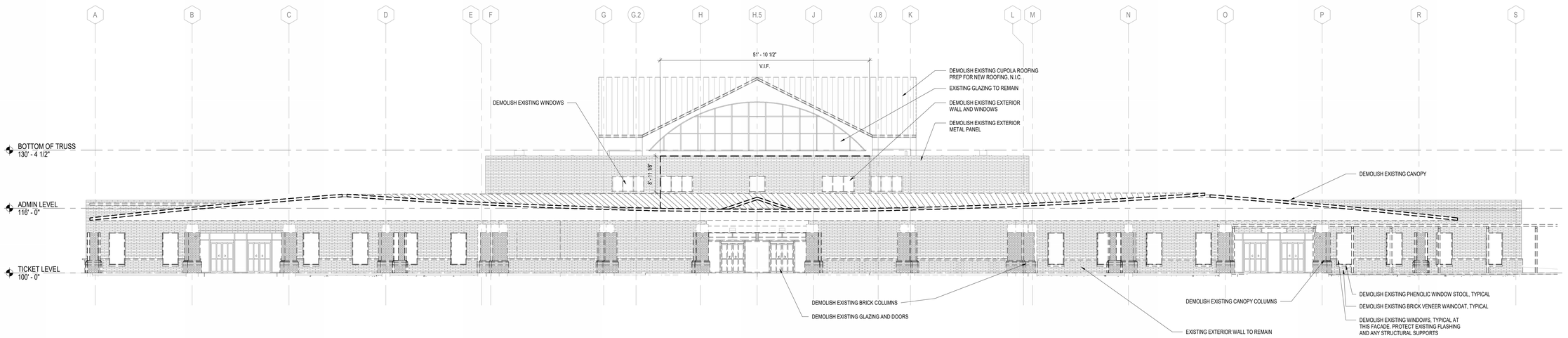
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C1 TERMINAL EXTERIOR DEMOLITION ELEVATION - NORTH

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



A1 TERMINAL EXTERIOR DEMOLITION ELEVATION - WEST

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

DEMOLITION PLAN LEGEND

PARTITION LEGEND

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DEMOLITION KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
D3	DEMOLISH EXISTING WALL. PATCH AND REPAIR AS NEEDED IN PREPARATION FOR NEW DOOR.
D29	DEMOLISH EXISTING WINDOW AND PREPARE OPENING FOR NEW DOOR PER NEW WORK PLANS.

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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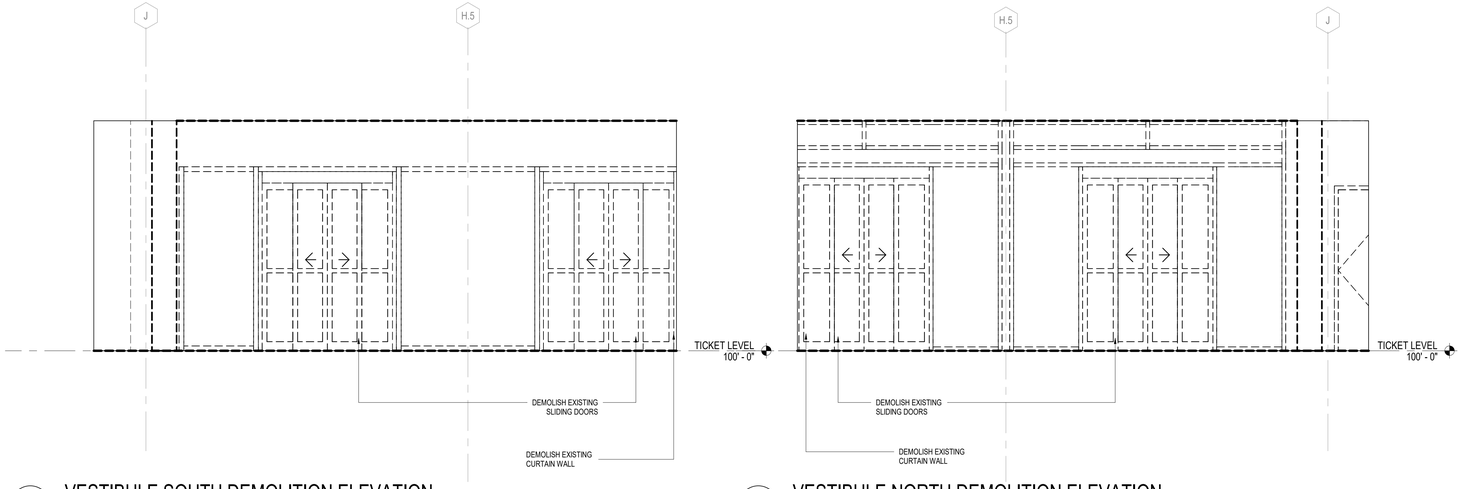
SHEET TITLE:
DEMOLITION ELEVATIONS

SHEET ID:
AD201

PROJECT STATUS:
100% BID SET

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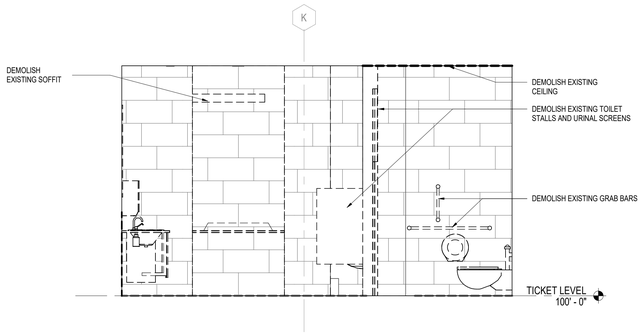


D1 VESTIBULE SOUTH DEMOLITION ELEVATION

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

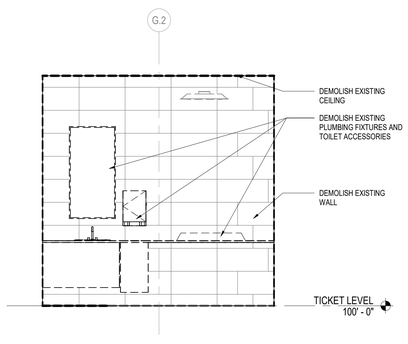
D2 VESTIBULE NORTH DEMOLITION ELEVATION

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



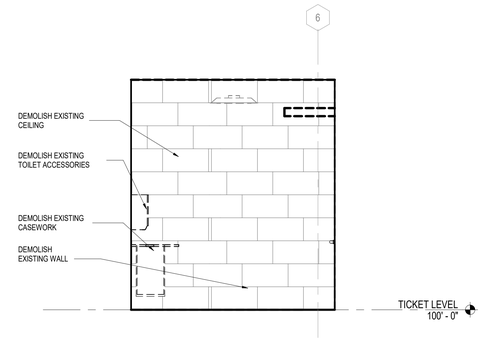
C1 RESTROOM NORTH DEMOLITION ELEVATION

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



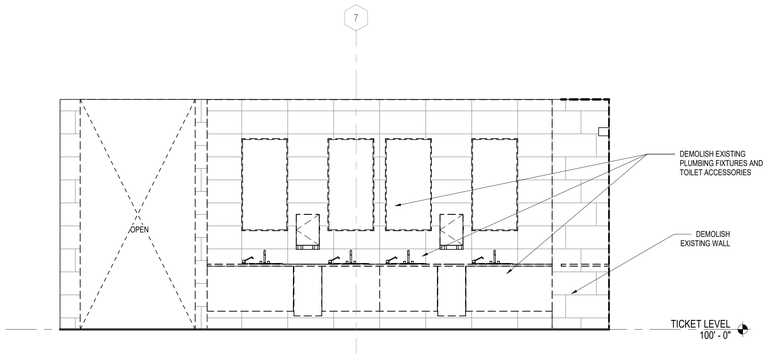
C2 RESTROOM SOUTH DEMOLITION ELEVATION

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



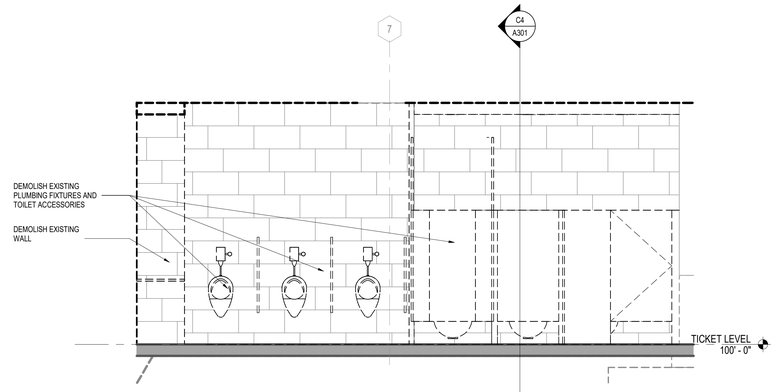
C4 RESTROOM WEST DEMOLITION ELEVATION

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



A1 RESTROOM WEST DEMOLITION ELEVATION

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



A3 RESTROOM EAST DEMOLITION ELEVATION

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:
DEMOLITION ELEVATIONS

SHEET ID:
AD202

PROJECT STATUS:
100% BID SET

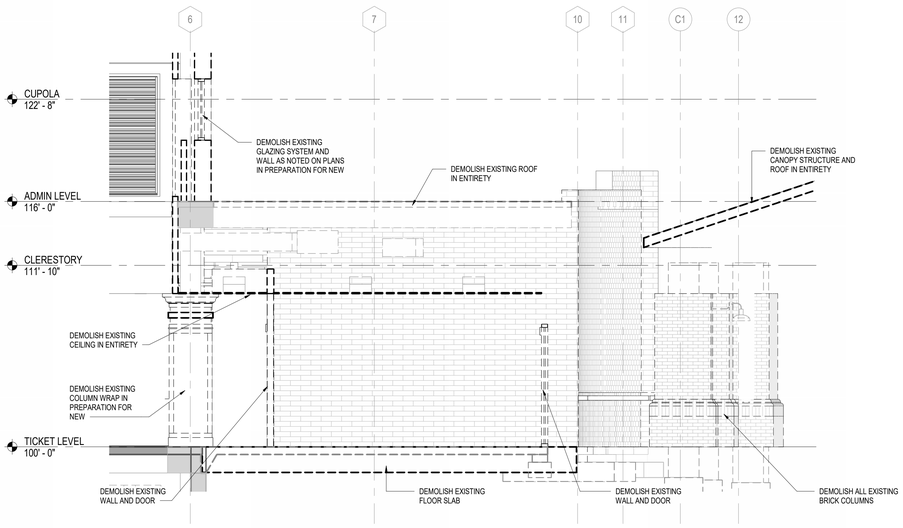
2 0 2 4 6
SCALE: 3/8" = 1'-0"

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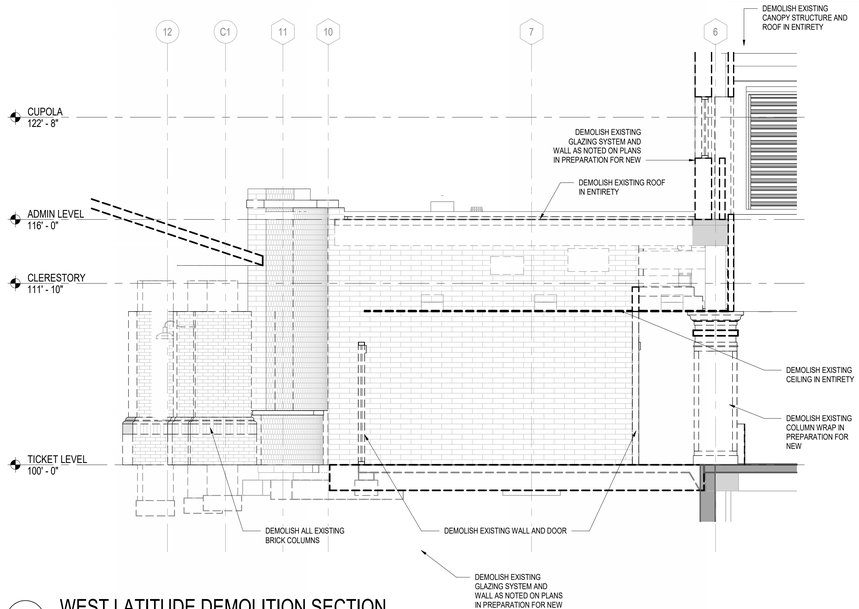
GENERAL DEMOLITION NOTES

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.



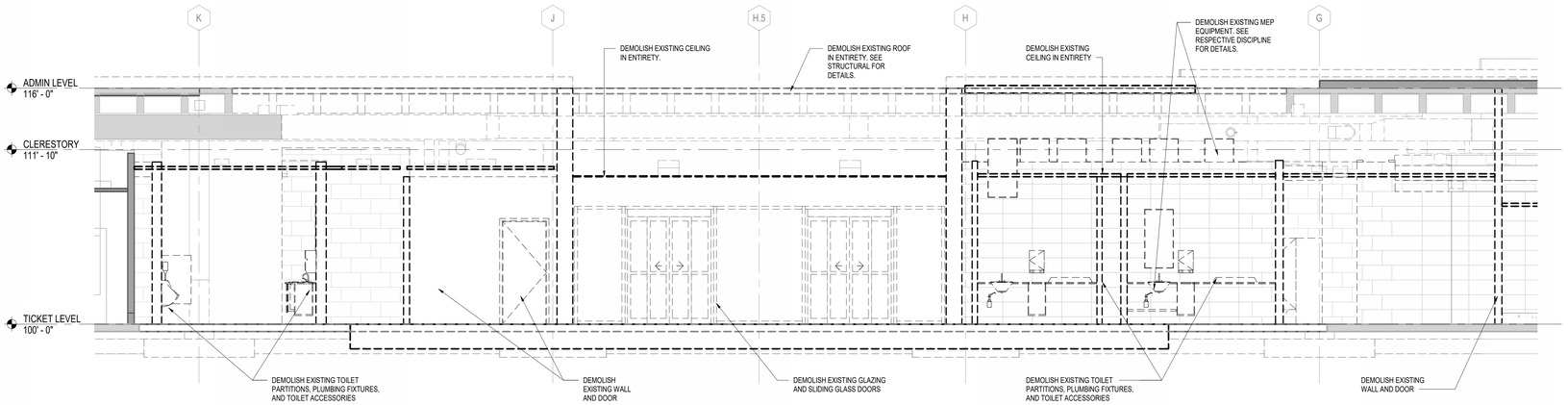
C1 EAST LATITUDE DEMOLITION SECTION

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



C4 WEST LATITUDE DEMOLITION SECTION

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



A1 NORTH LATITUDE DEMOLITION SECTION

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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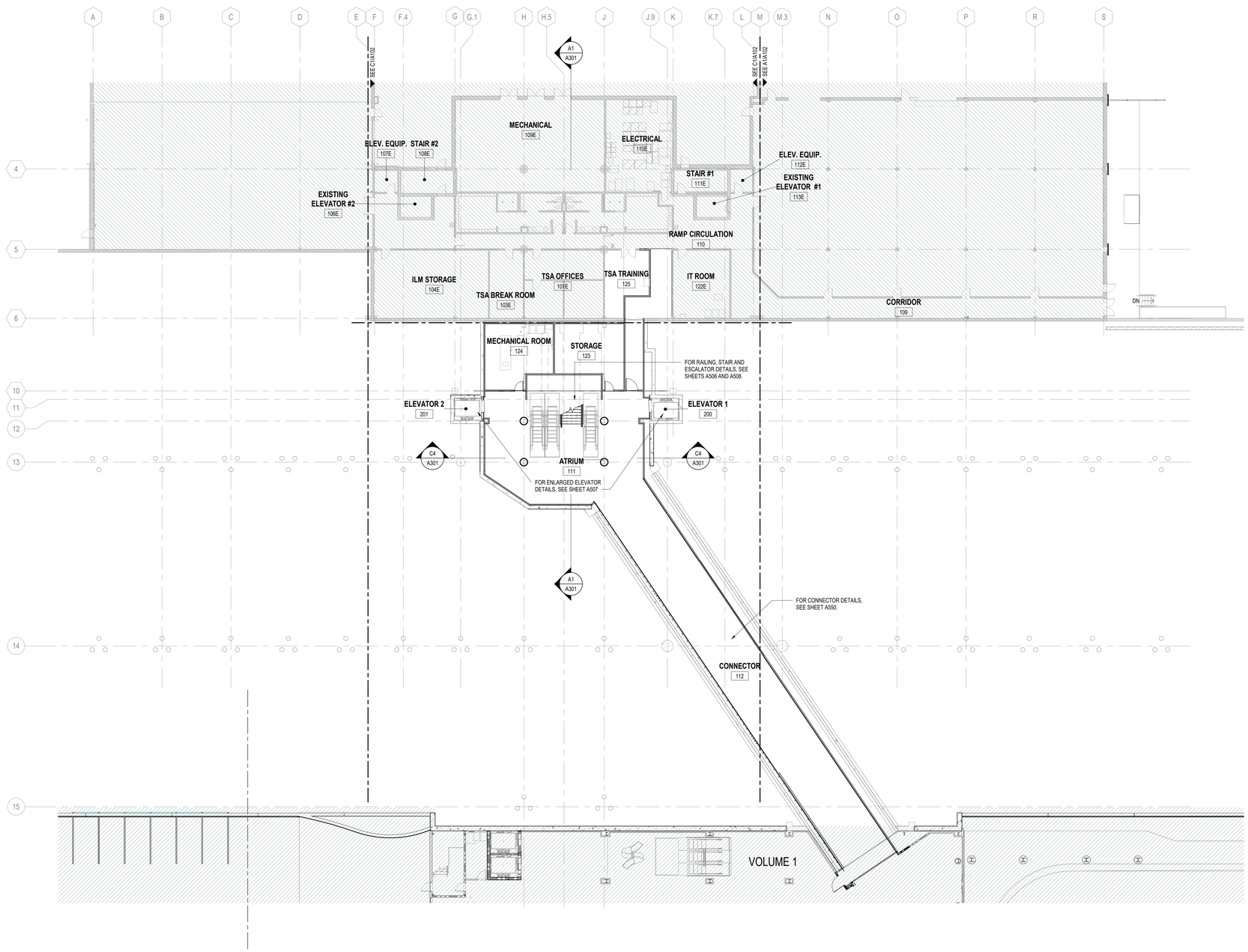
SHEET TITLE:
DEMOLITION BUILDING SECTIONS

SHEET ID:
AD301

PROJECT STATUS:
100% BID SET

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PN

A1 OVERALL RAMP 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.

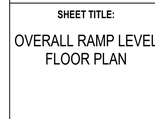
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ILM

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:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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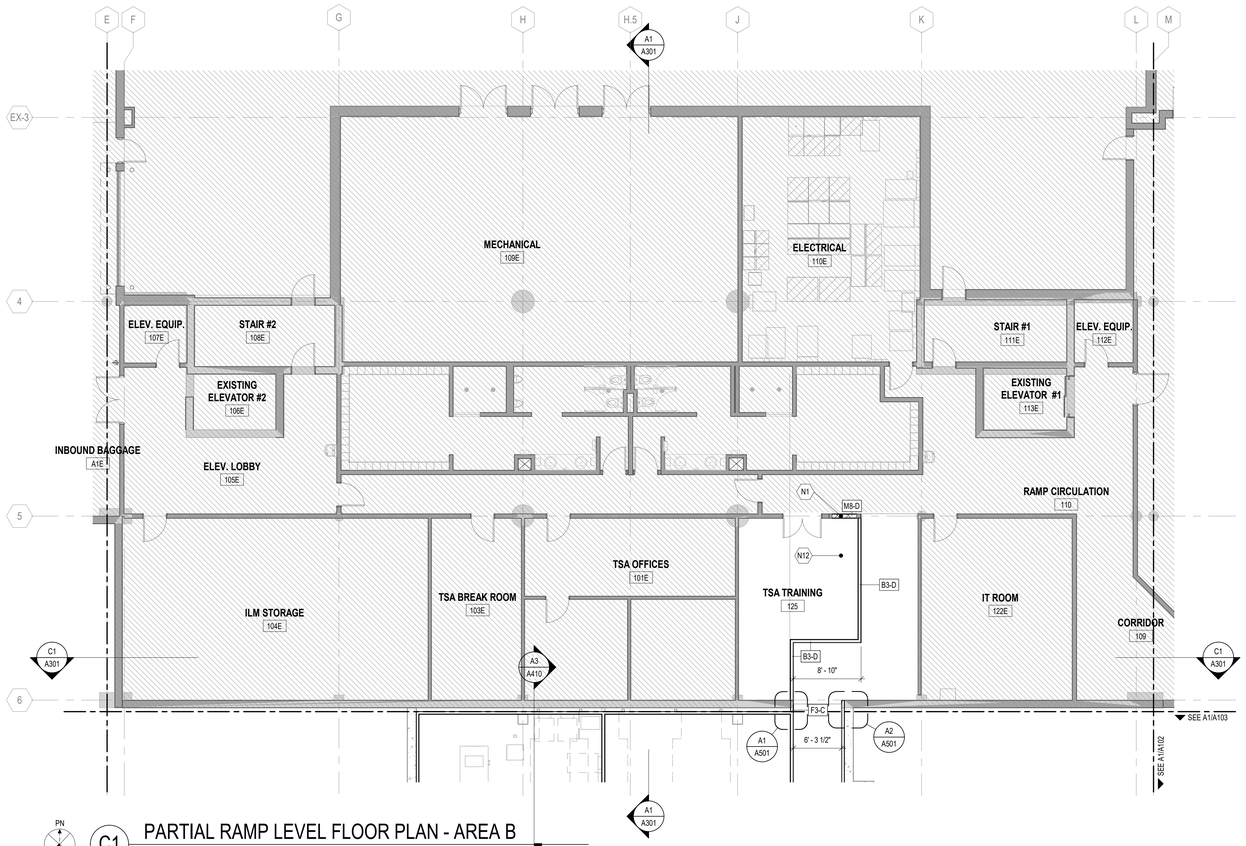
SHEET TITLE:
OVERALL RAMP LEVEL FLOOR PLAN

SHEET ID:
A101

PROJECT STATUS:
100% BID SET

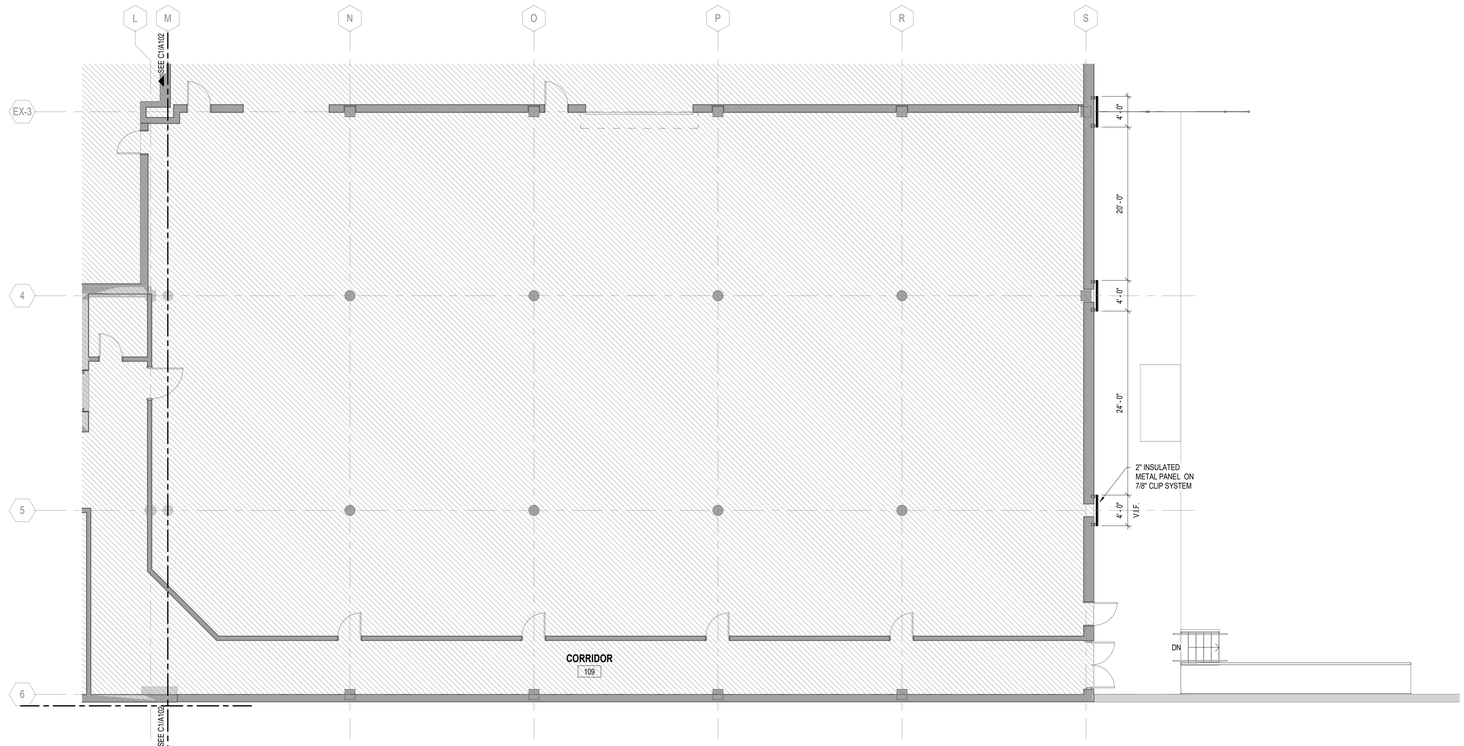
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PARTIAL RAMP LEVEL FLOOR PLAN - AREA B

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



PARTIAL RAMP LEVEL PLAN - AREA C

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.

NEW WORK KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
N1	INFILL NEW WALL TO ALIGN WITH THE ADJACENT WALL.
N12	CONTRACTOR TO MATCH COLOR, TYPE, HEIGHT OF NEW FLOOR PORTION WITH EXISTING FLOOR.

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

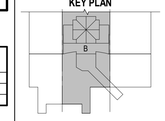
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ILM

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:	SG
DRAWN BY:	ALH
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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SHEET TITLE:
PARTIAL RAMP LEVEL FLOOR PLAN - AREA B & AREA C

SHEET ID:
A102

PROJECT STATUS:
100% BID SET

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PARTIAL RAMP LEVEL FLOOR PLAN - CONNECTOR

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

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)
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GENERAL SHEET NOTES

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4. PROVIDE 5/8" WATER-RESISTANT GWB IN LIEU OF TYPICAL GWB AT ALL WET AREAS INCLUDING, BUT NOT LIMITED TO:
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   E. KITCHEN AREAS
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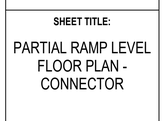
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ILM

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

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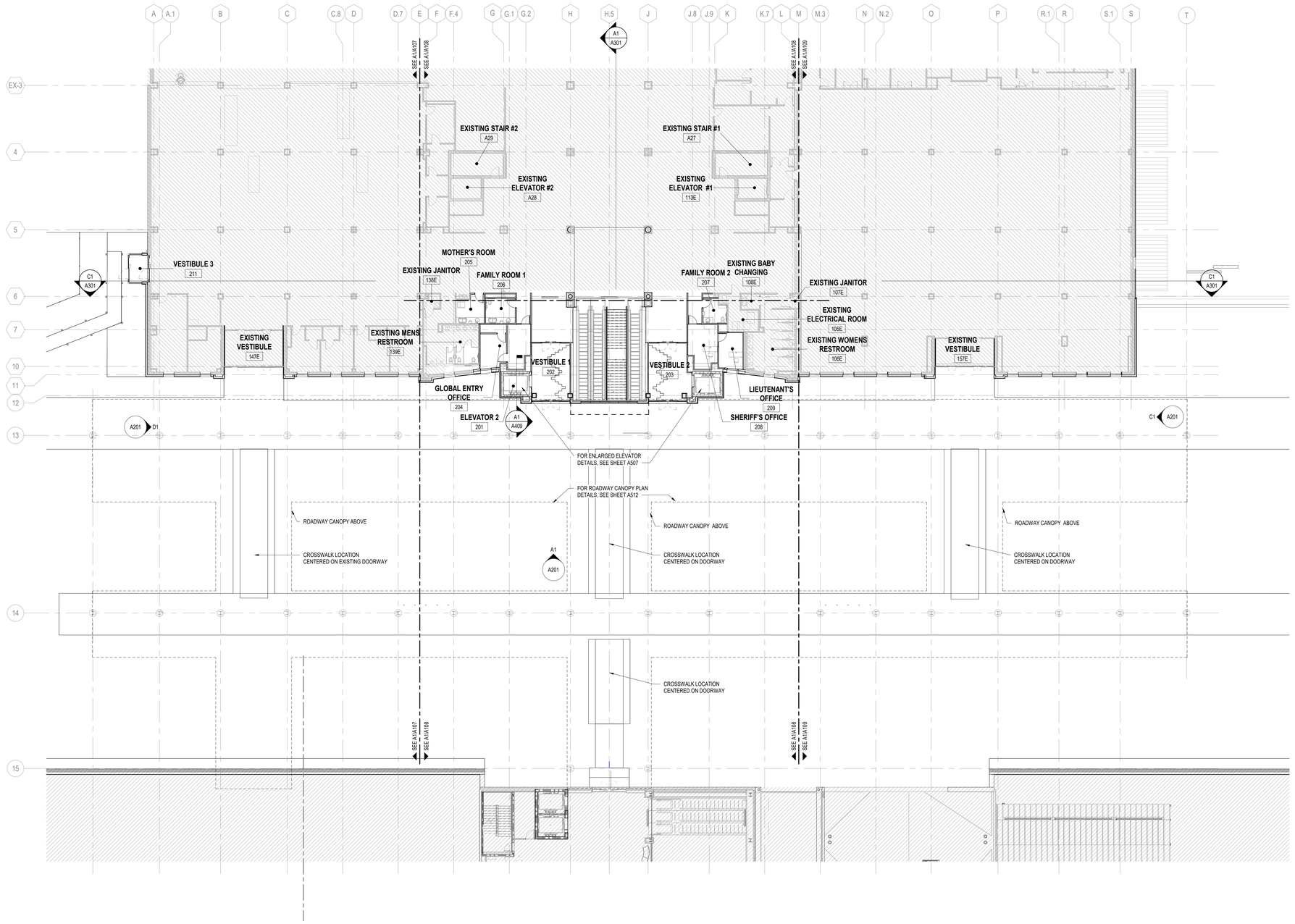
SHEET TITLE:
PARTIAL RAMP LEVEL FLOOR PLAN - CONNECTOR

SHEET ID:
A103

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
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- 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
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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:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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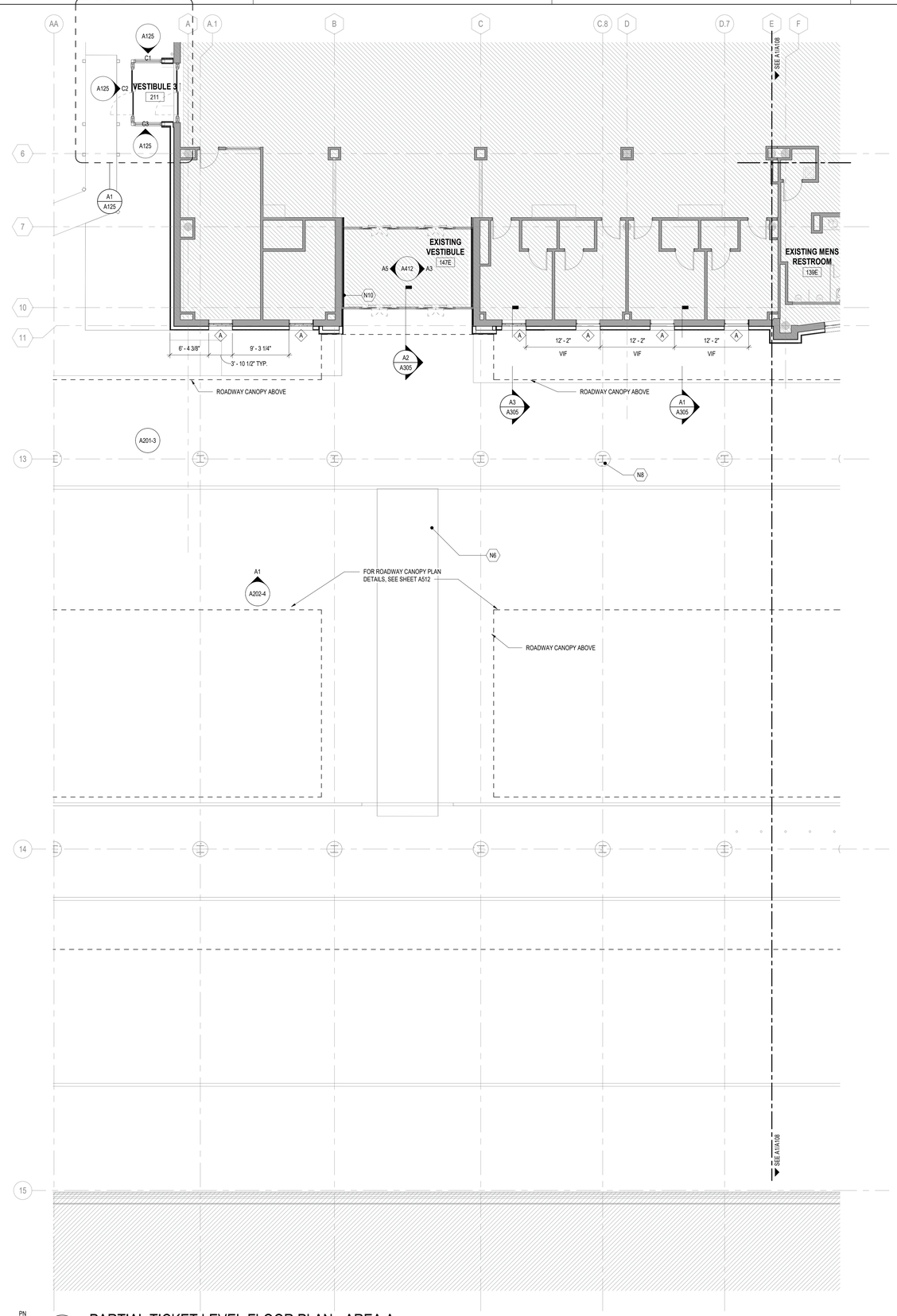
SHEET TITLE:
OVERALL TICKET LEVEL FLOOR PLAN

SHEET ID:
A106

PROJECT STATUS:
100% BID SET

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PN

N

A1 PARTIAL TICKET LEVEL FLOOR PLAN - AREA A

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

8 0 8 16

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.

NEW WORK KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
N6	CONCRETE CROSSWALK, REFERENCE CIVIL DRAWINGS.
N8	CONCRETE COLUMN, REFERENCE STRUCTURAL DRAWINGS.
N10	TABBY STONE RUNS THROUGH INTERIOR VESTIBULE.

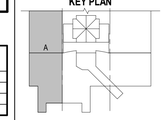
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ILM

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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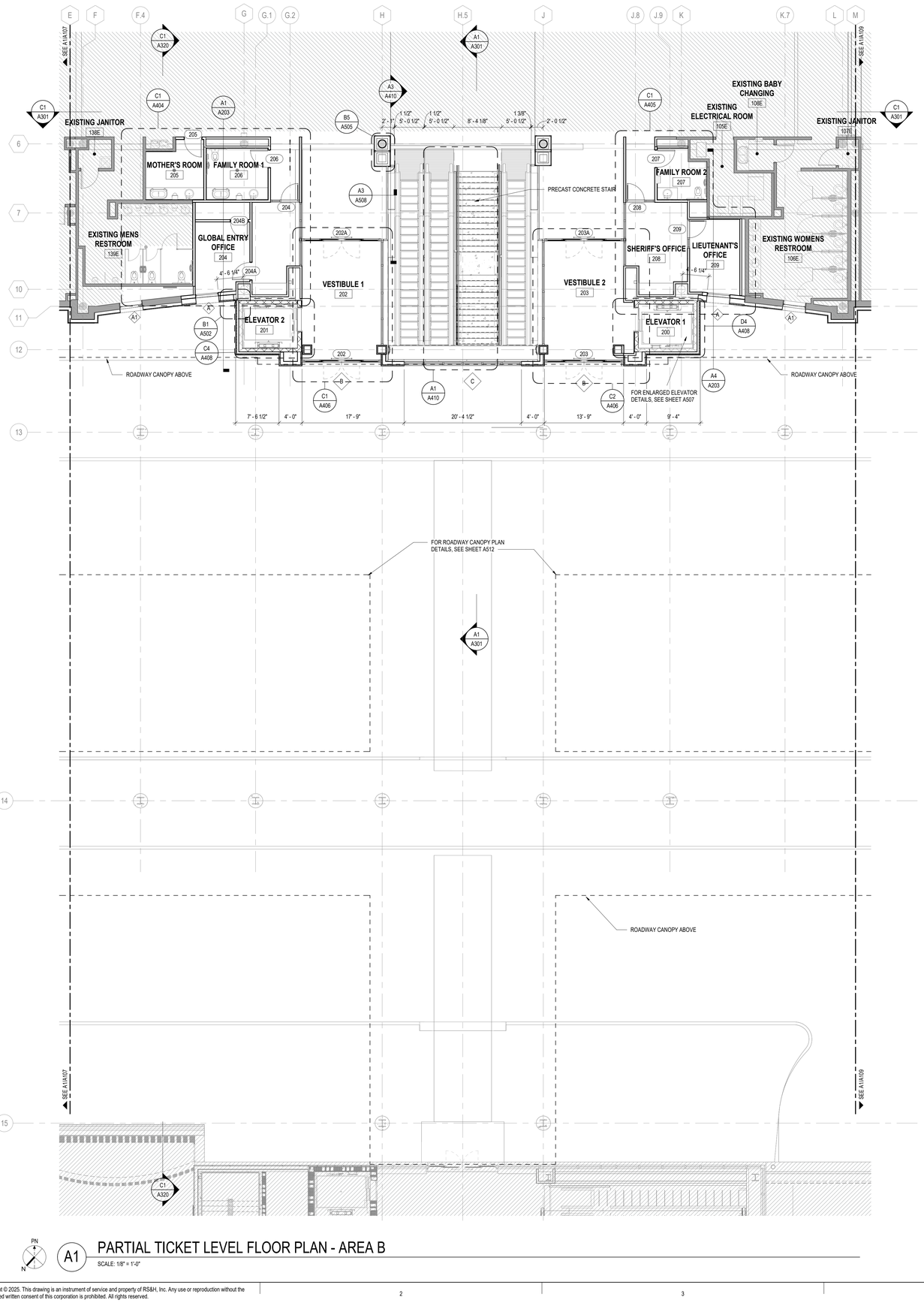
SHEET TITLE:
PARTIAL TICKET LEVEL FLOOR PLAN - AREA A

SHEET ID:
A107

PROJECT STATUS:
100% BID SET

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PN

A1 PARTIAL TICKET LEVEL FLOOR PLAN - AREA B

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

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.

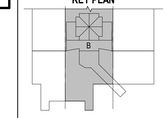
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ILM

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:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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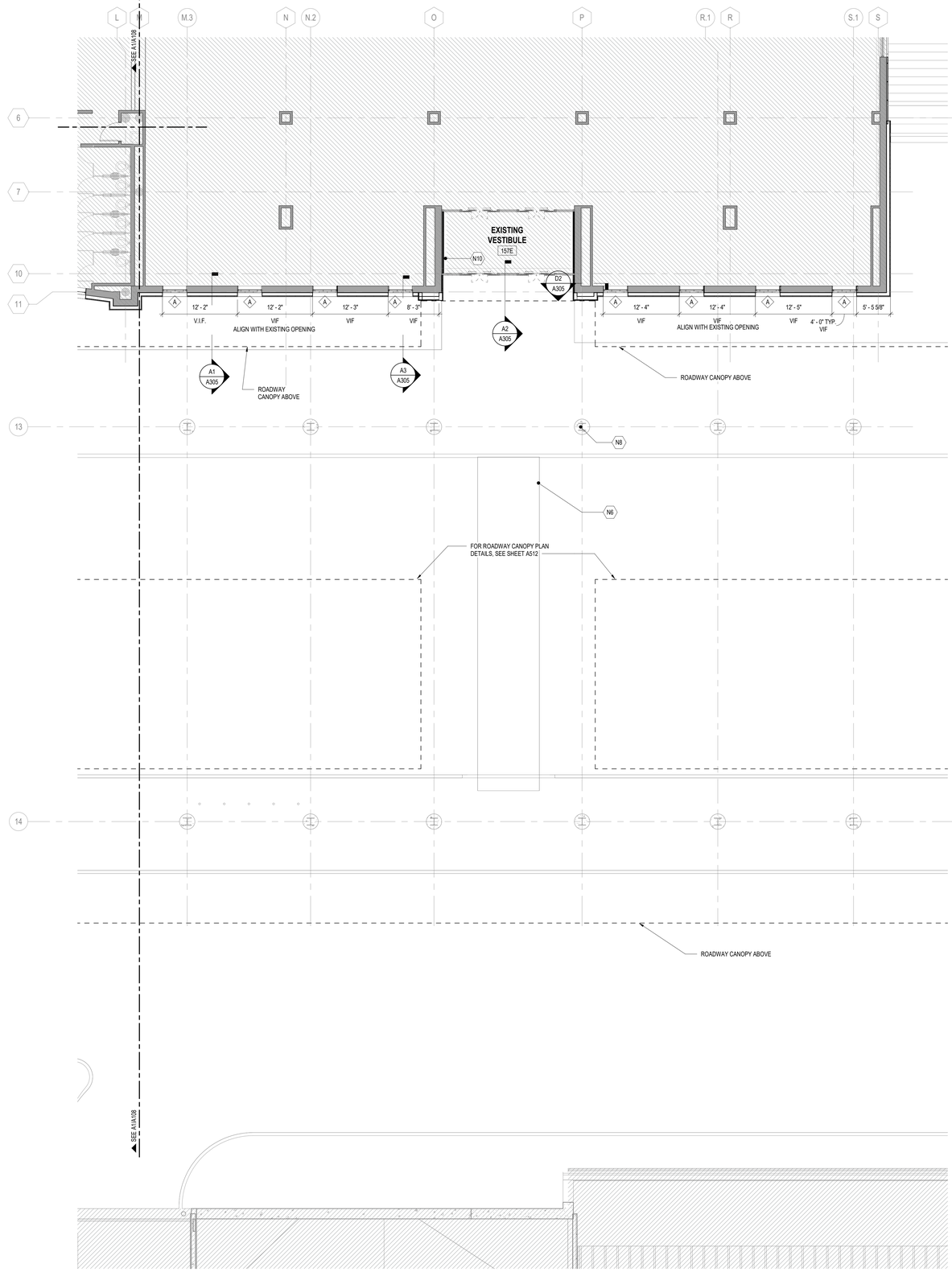
SHEET TITLE:
PARTIAL TICKET LEVEL FLOOR PLAN - AREA B

SHEET ID:
A108

PROJECT STATUS:
100% BID SET

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PN

N

A1 PARTIAL TICKET LEVEL FLOOR PLAN - AREA C

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

8 0 8 16

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
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   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.
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12. FOR VERTICAL CIRCULATION DETAILS, SEE SHEET A511.
13. FOR SECTION DETAILS, SEE SHEETS A503 AND A504.
14. FOR COLUMN DETAILS, SEE SHEET A505.

NEW WORK KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
N6	CONCRETE CROSSWALK. REFERENCE CIVIL DRAWINGS.
N8	CONCRETE COLUMN. REFERENCE STRUCTURAL DRAWINGS.
N10	TABBY STONE RUNS THROUGH INTERIOR VESTIBULE.

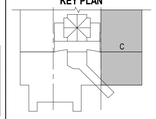
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ILM

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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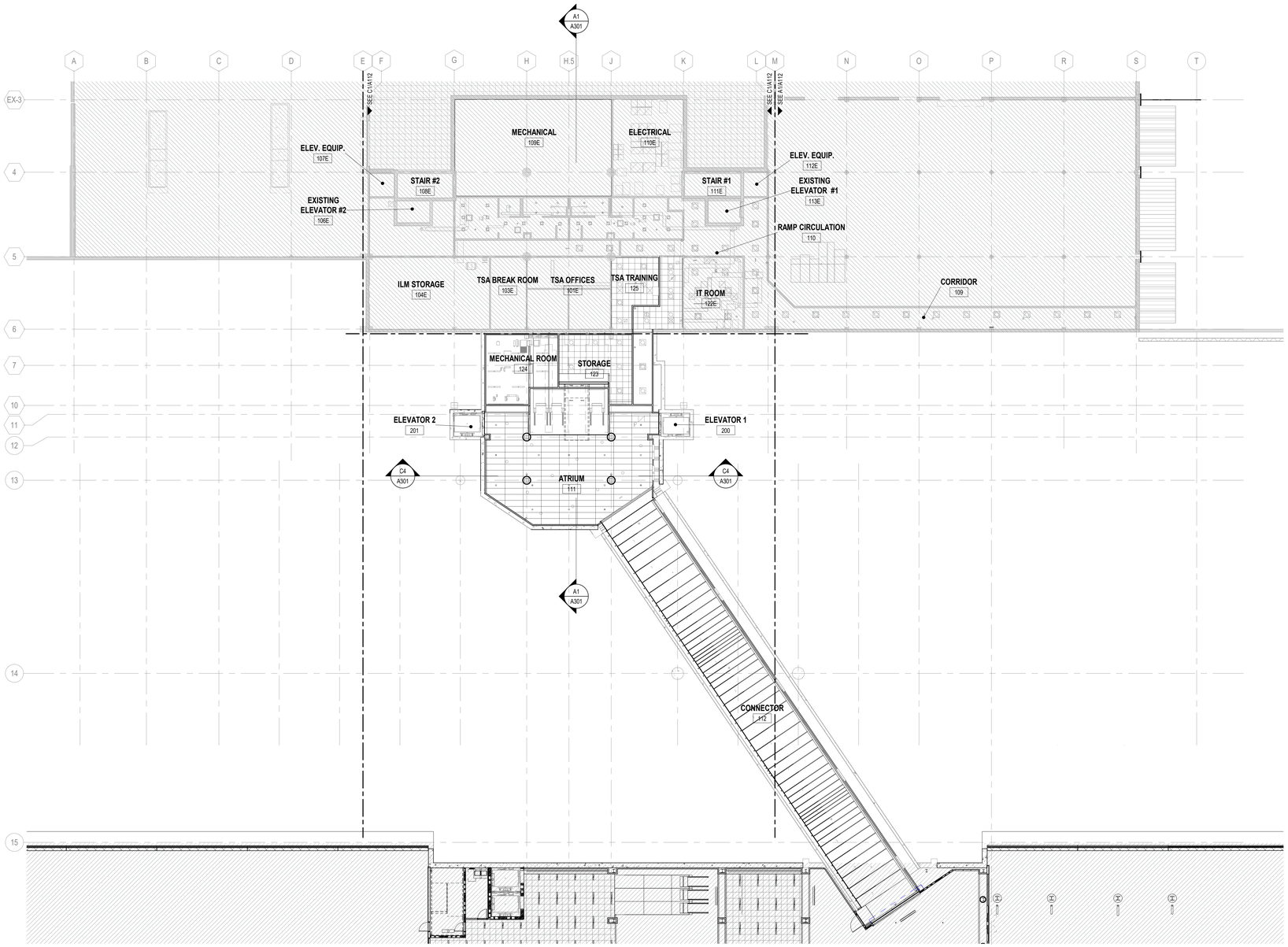
SHEET TITLE:
PARTIAL TICKET LEVEL FLOOR PLAN - AREA C

SHEET ID:
A109

PROJECT STATUS:
100% BID SET

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PN

N

A1 OVERALL RAMP 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 VALVES 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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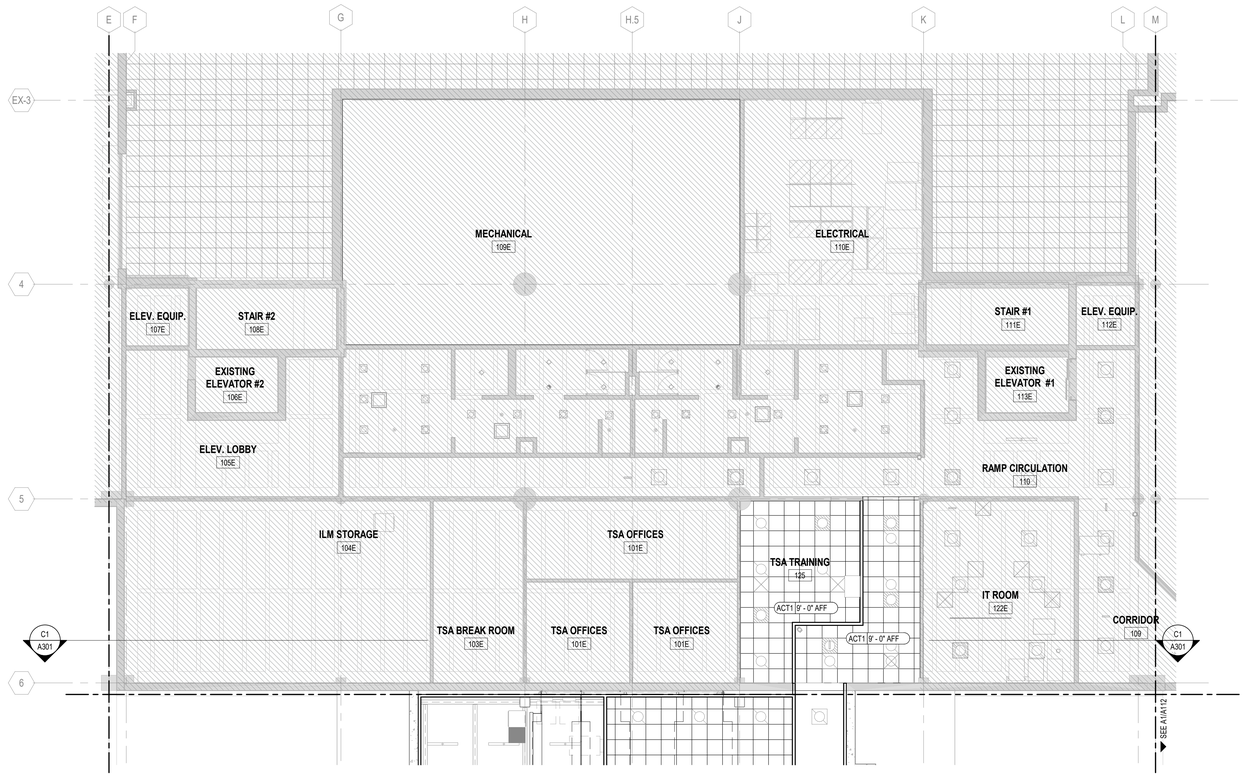
SHEET TITLE:
OVERALL RAMP LEVEL REFLECTED CEILING PLAN

SHEET ID:
A111

PROJECT STATUS:
100% BID SET

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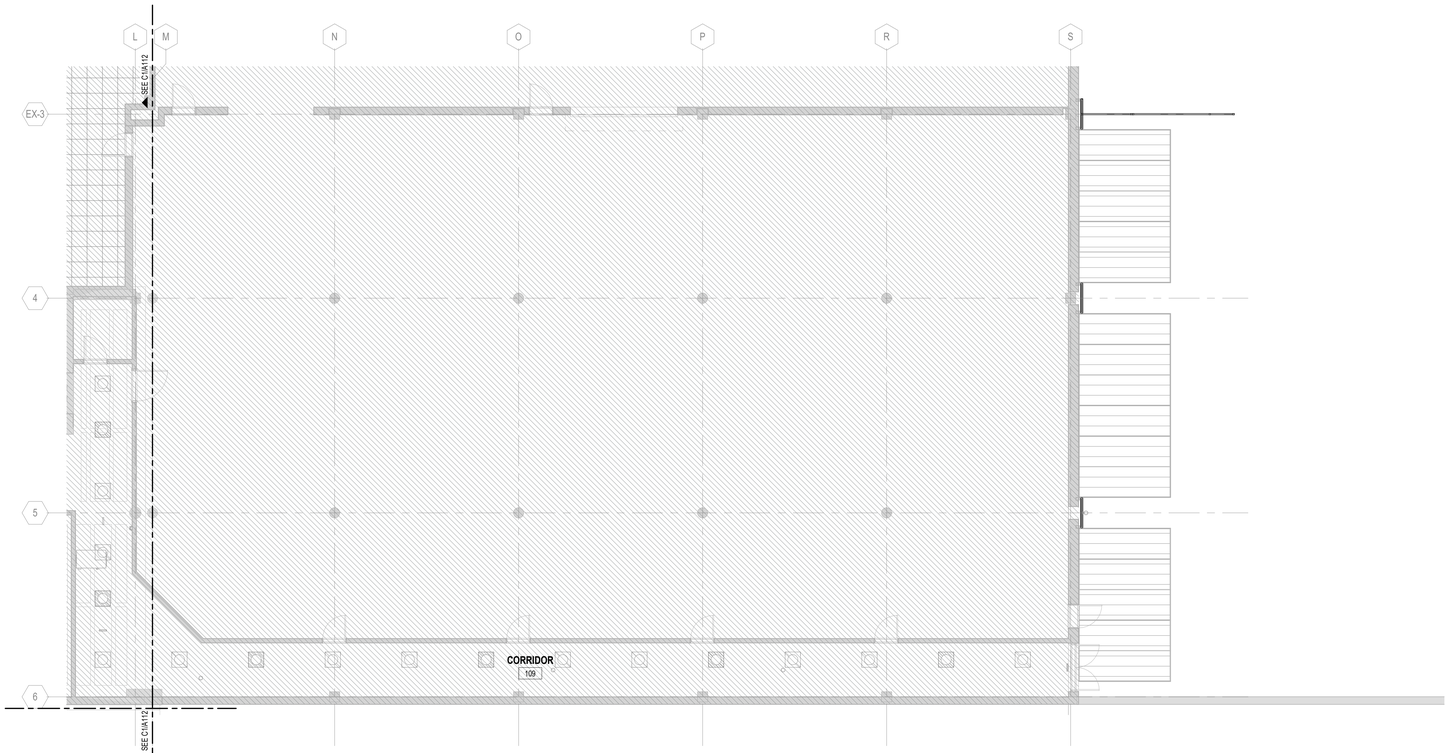
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PN

C1 PARTIAL RAMP LEVEL REFLECTED CEILING PLAN - AREA B

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



PN

A1 PARTIAL RAMP LEVEL REFLECTED CEILING PLAN - AREA C

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.

~~NEW WORK KEYNOTE LEGEND~~

KEY VALUE	KEYNOTE TEXT

8 0 8 16

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

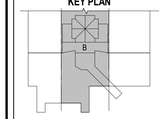
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ILM

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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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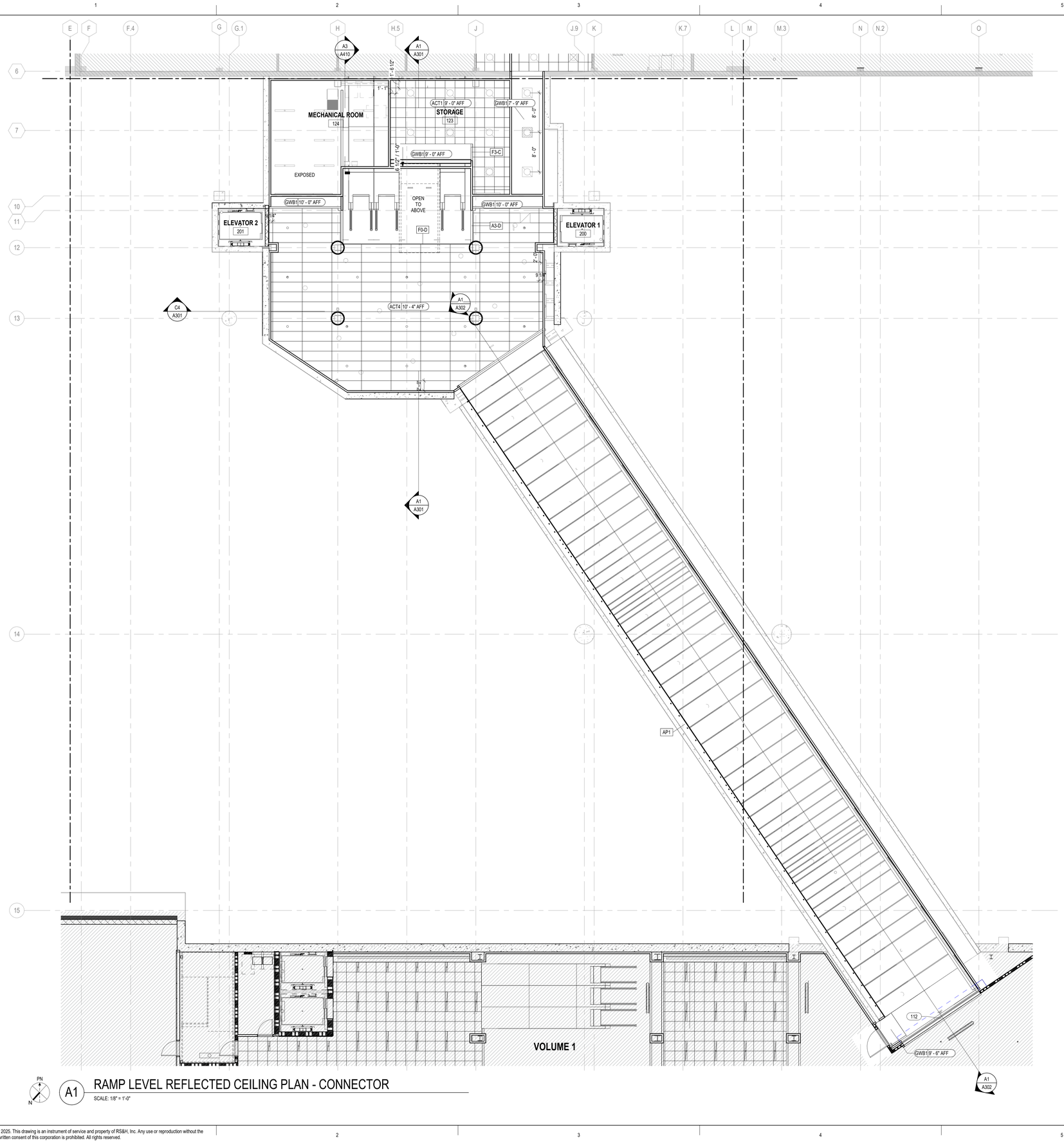
SHEET TITLE:
PARTIAL RAMP LEVEL REFLECTED CEILING PLAN - AREA B & AREA C

SHEET ID:
A112

PROJECT STATUS:
100% BID SET

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PN

A1 RAMP LEVEL REFLECTED CEILING PLAN - CONNECTOR

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 VALVES AND MECHANICAL DAMPER BALANCE CONTROLS. COORDINATE ALL LOCATIONS WITH TRADES AND ARCHITECT, TYP. ALL ACCESS PANELS TO BE PAINTED TO MATCH ADJACENT SURFACES.

8 0 8 16

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

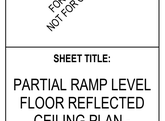
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ILM

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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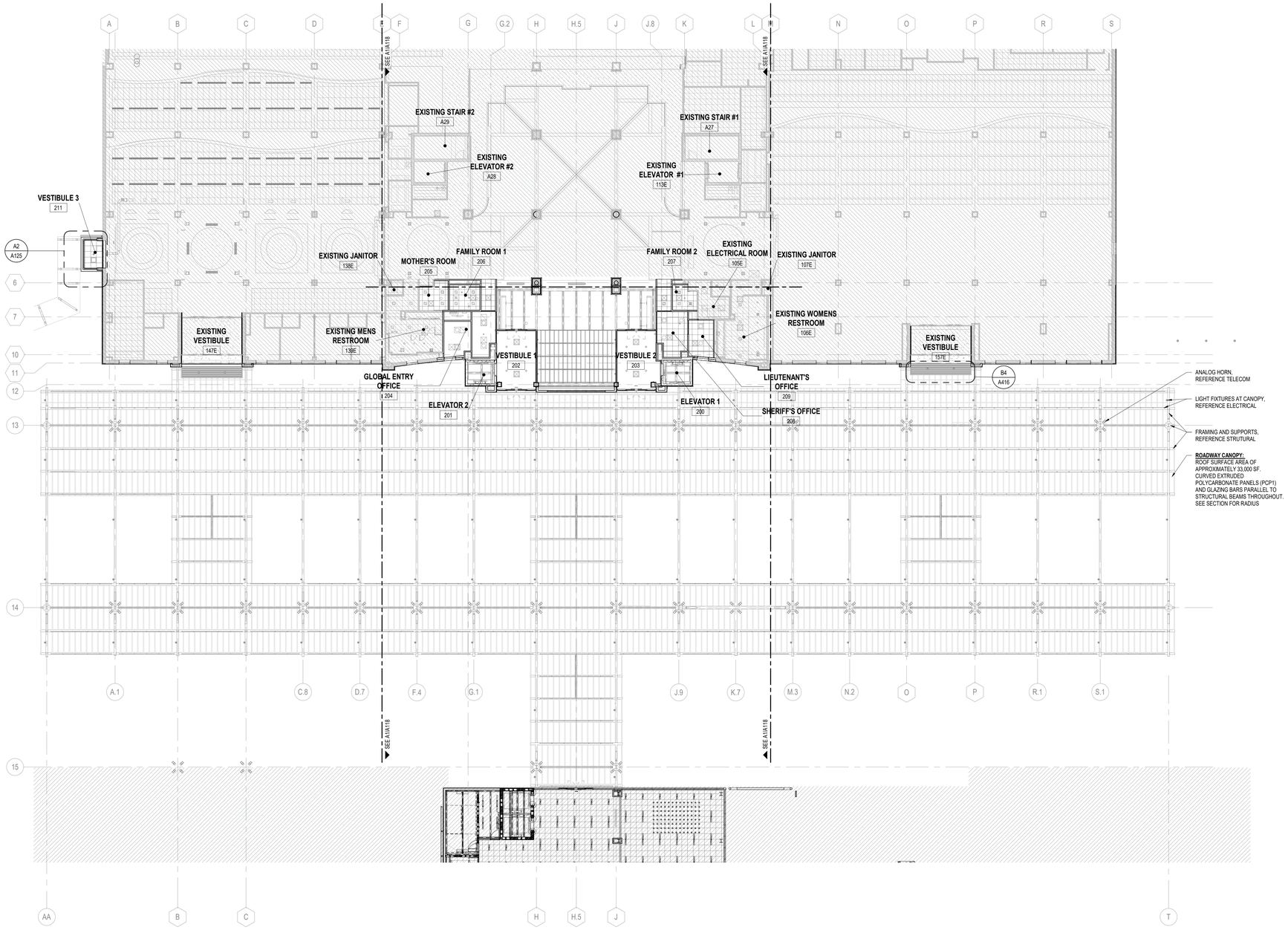
SHEET TITLE:
PARTIAL RAMP LEVEL FLOOR REFLECTED CEILING PLAN - CONNECTOR

SHEET ID:
A113

PROJECT STATUS:
100% BID SET

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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.
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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.

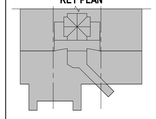
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ILM

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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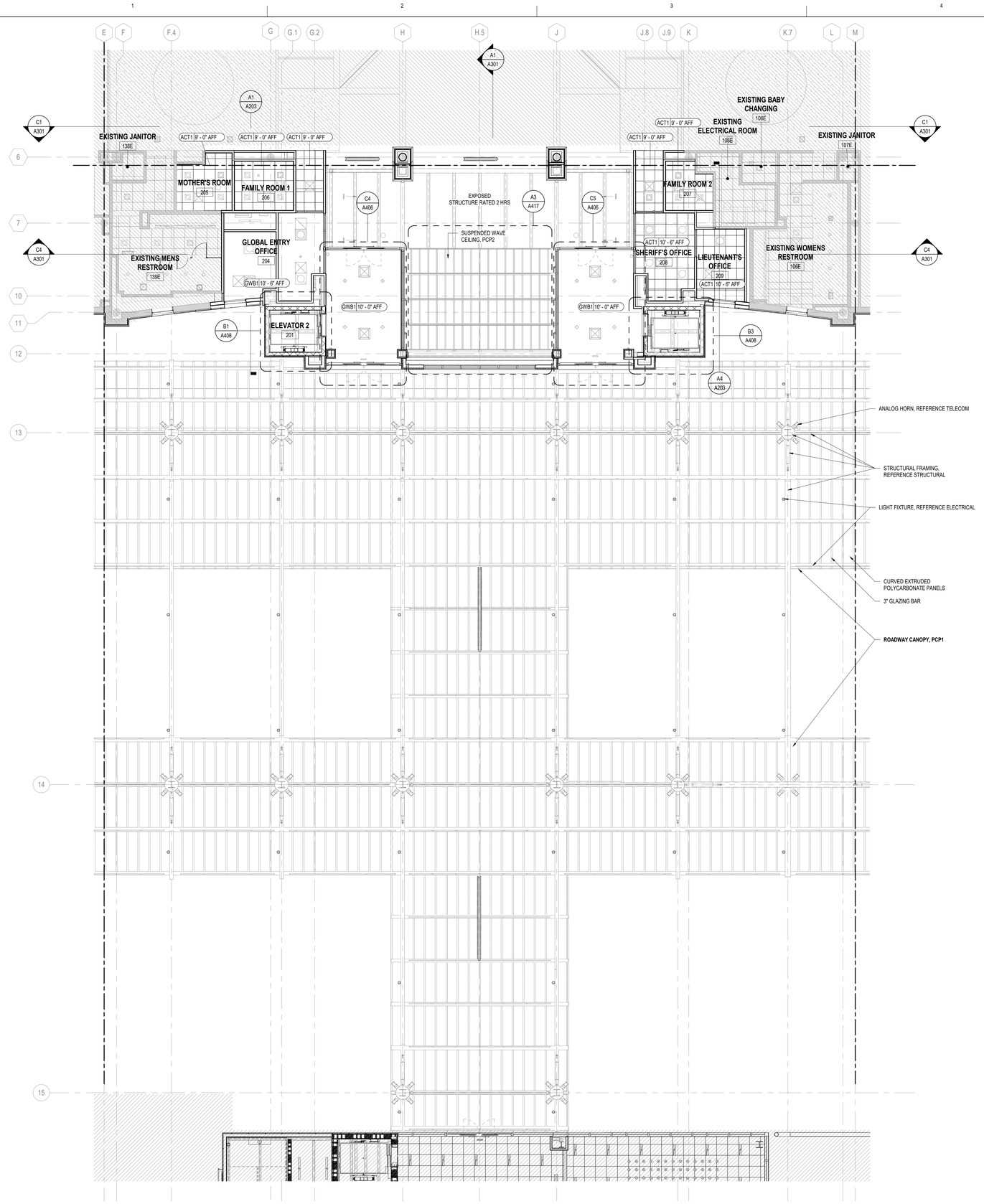
SHEET TITLE:
OVERALL TICKET LEVEL REFLECTED CEILING PLAN

SHEET ID:
A116

PROJECT STATUS:
100% BID SET

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PN

A1 PARTIAL TICKET LEVEL REFLECTED CEILING PLAN - AREA B

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

8 0 8 16

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)

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- 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
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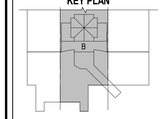
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ILM

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

SHEET ID:
A118

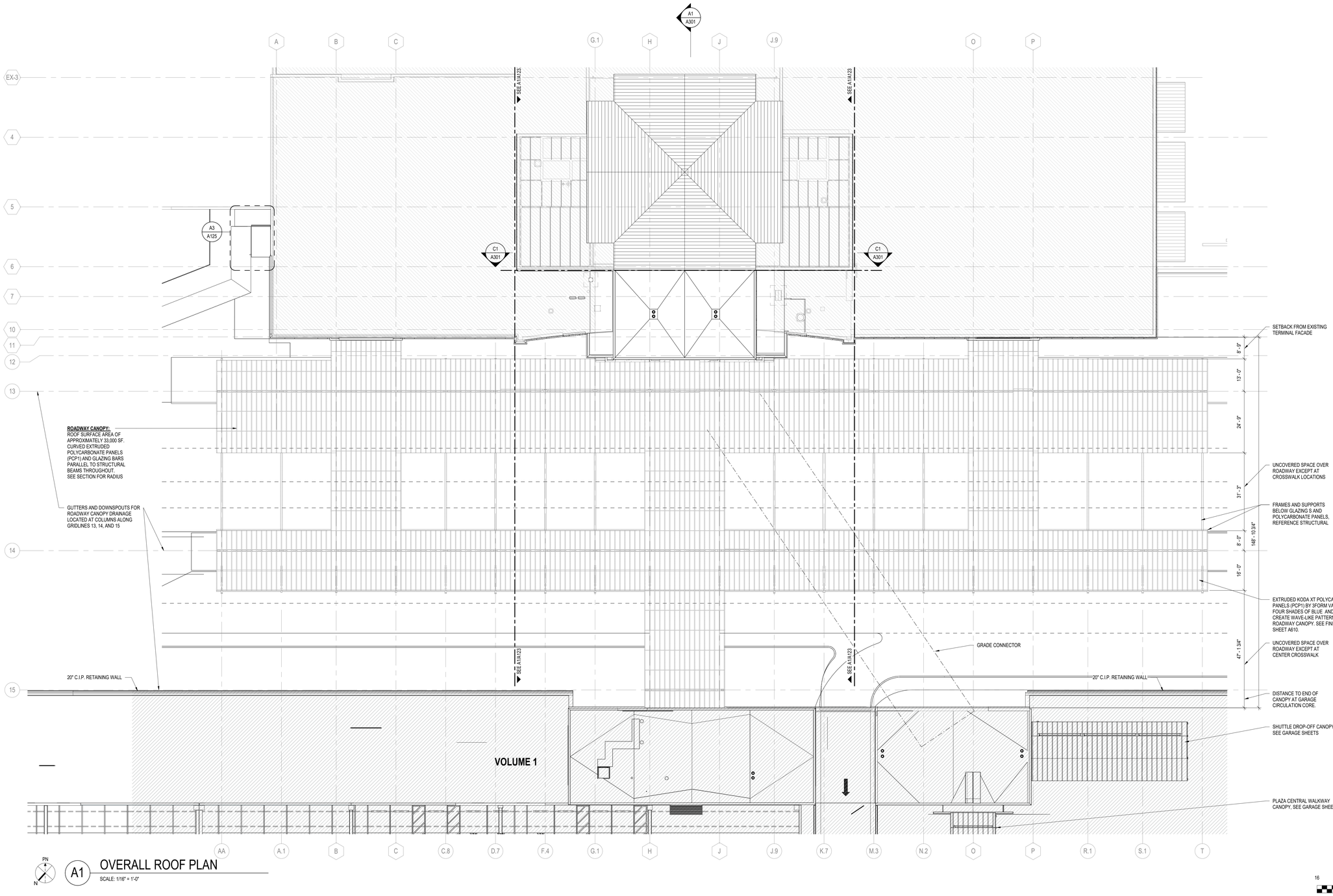
PROJECT STATUS:
100% BID SET

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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.



A1 OVERALL ROOF PLAN

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

16 0 16 32

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

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ILM

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KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE

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

PROJECT NUMBER:
1003-0070-004

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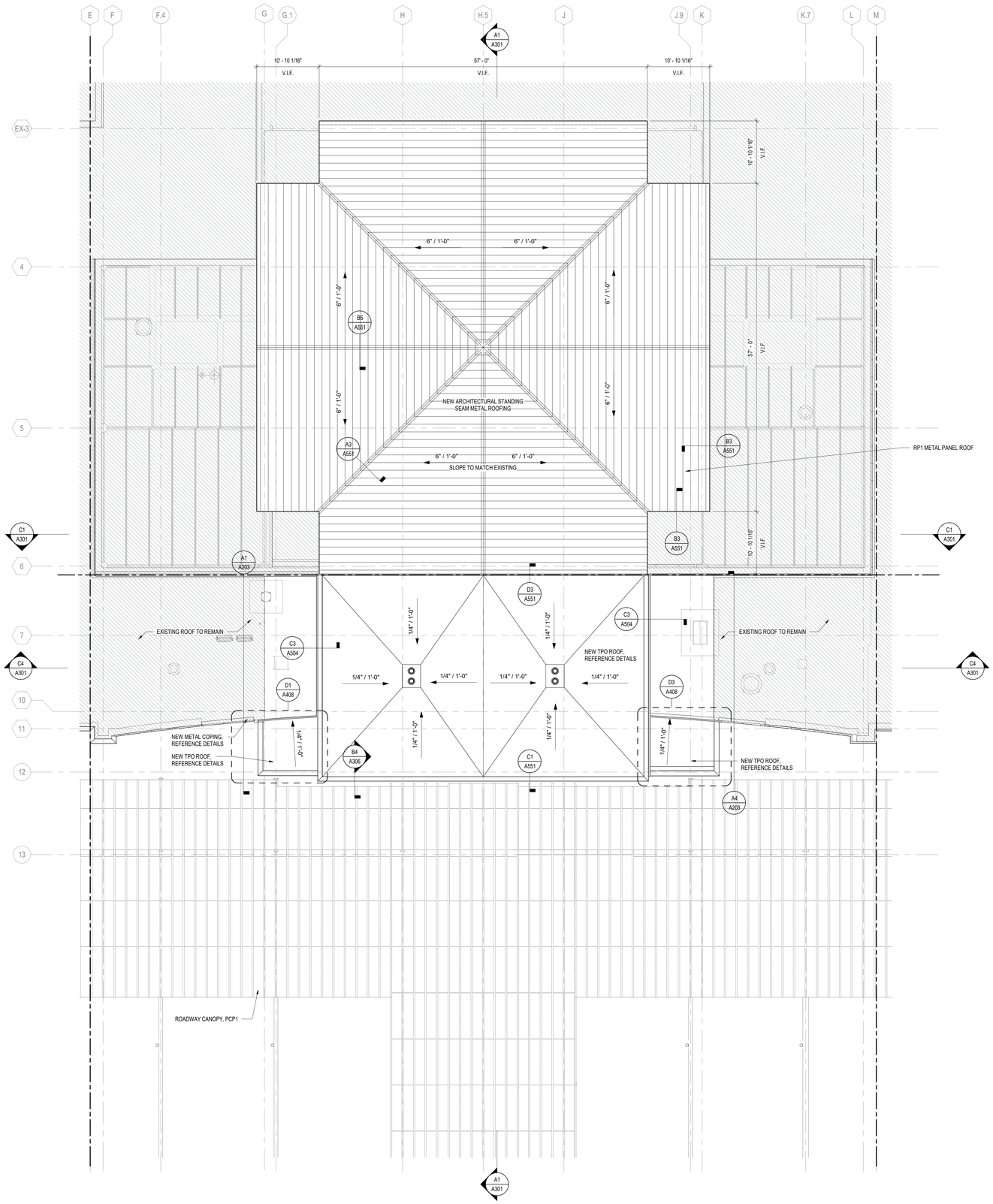
SHEET TITLE:
OVERALL ROOF PLAN

SHEET ID:
A121

PROJECT STATUS:
100% BID SET

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PN

A1 PARTIAL ROOF PLAN - AREA B

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

8 0 8 16

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

GENERAL ROOF NOTES

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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.

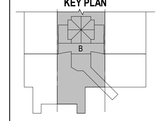
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ILM

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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

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

PROJECT NUMBER:
1003-0070-004

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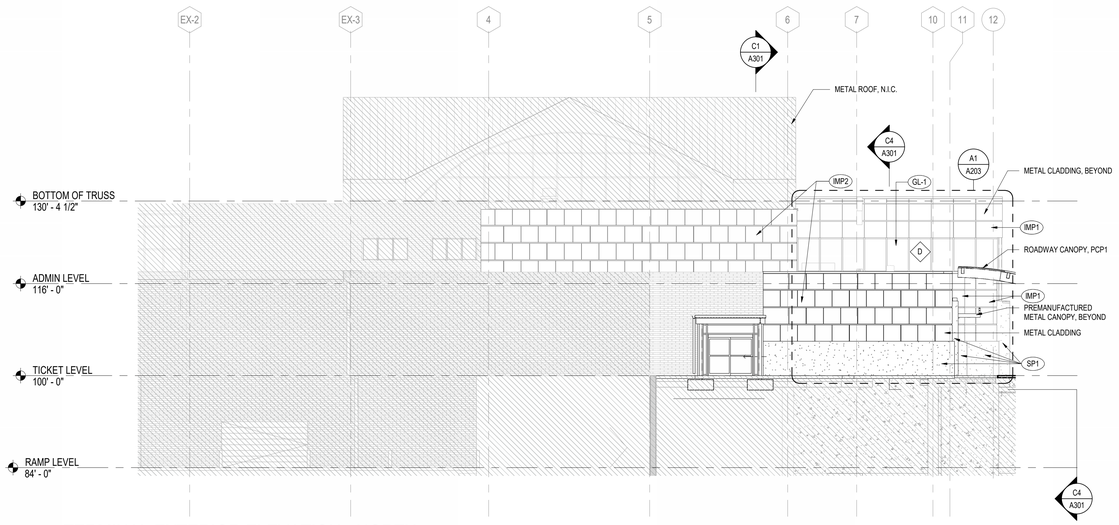
SHEET TITLE:
PARTIAL ROOF PLAN - AREA B

SHEET ID:
A123

PROJECT STATUS:
100% BID SET

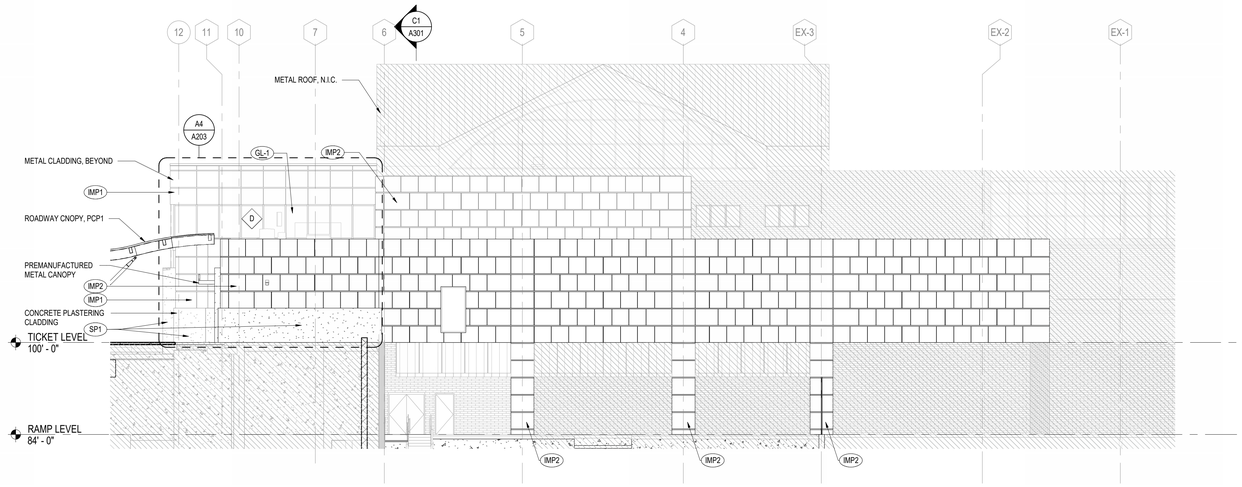
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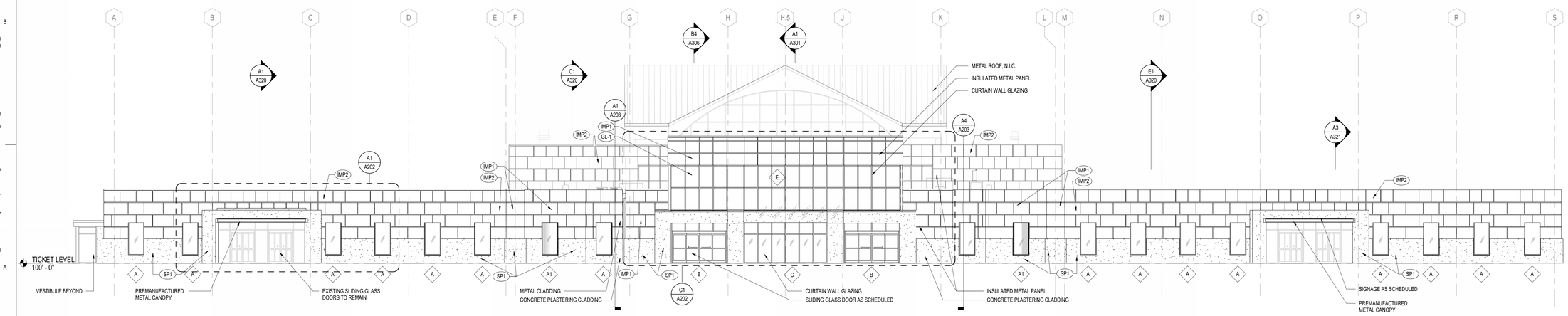
D1 TERMINAL EXTERIOR ELEVATION - NORTH

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

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PROJECT ADDRESS:
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WILMINGTON, NC 28405

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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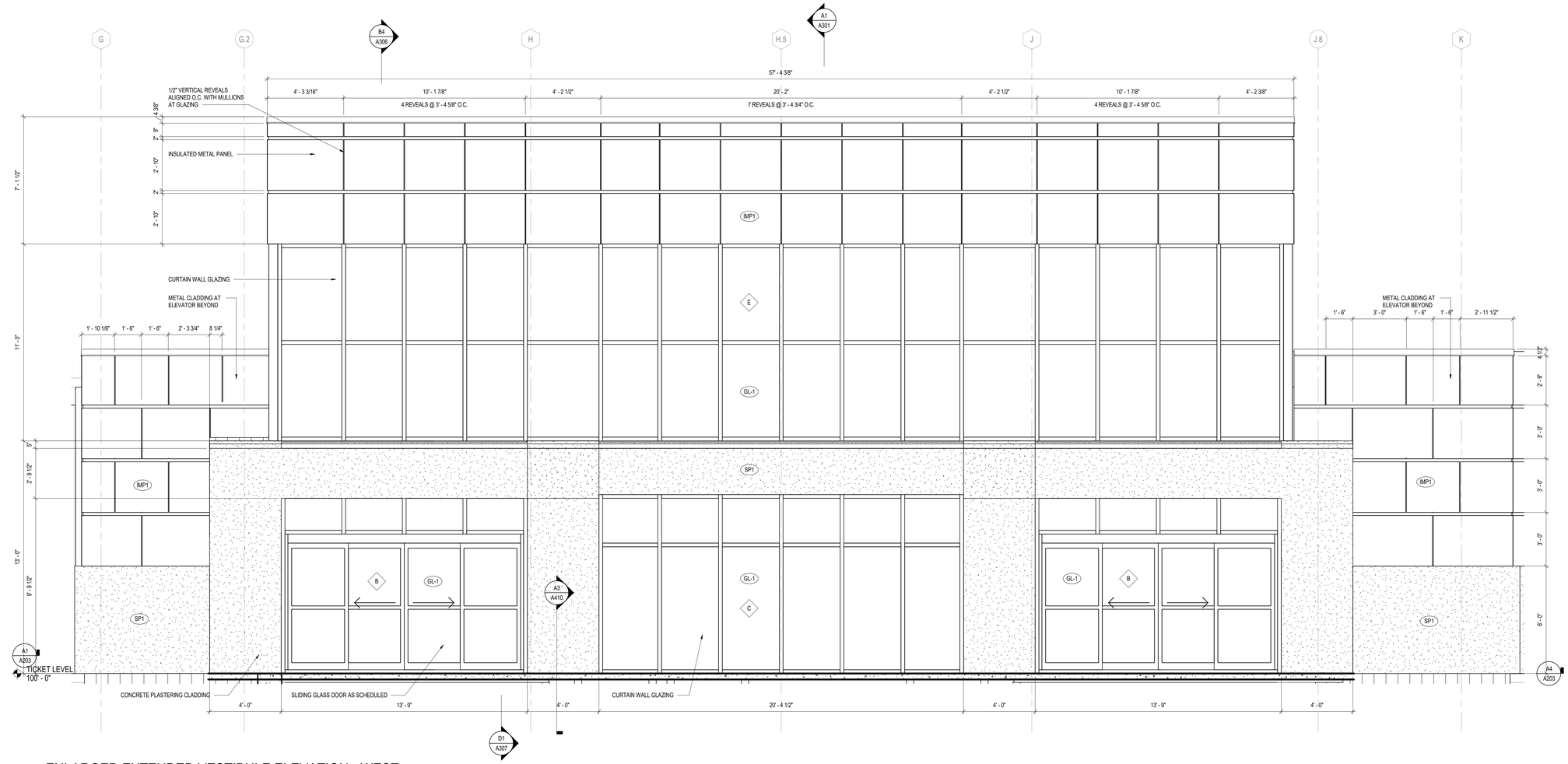
BUILDING ELEVATIONS

SHEET ID:

A201

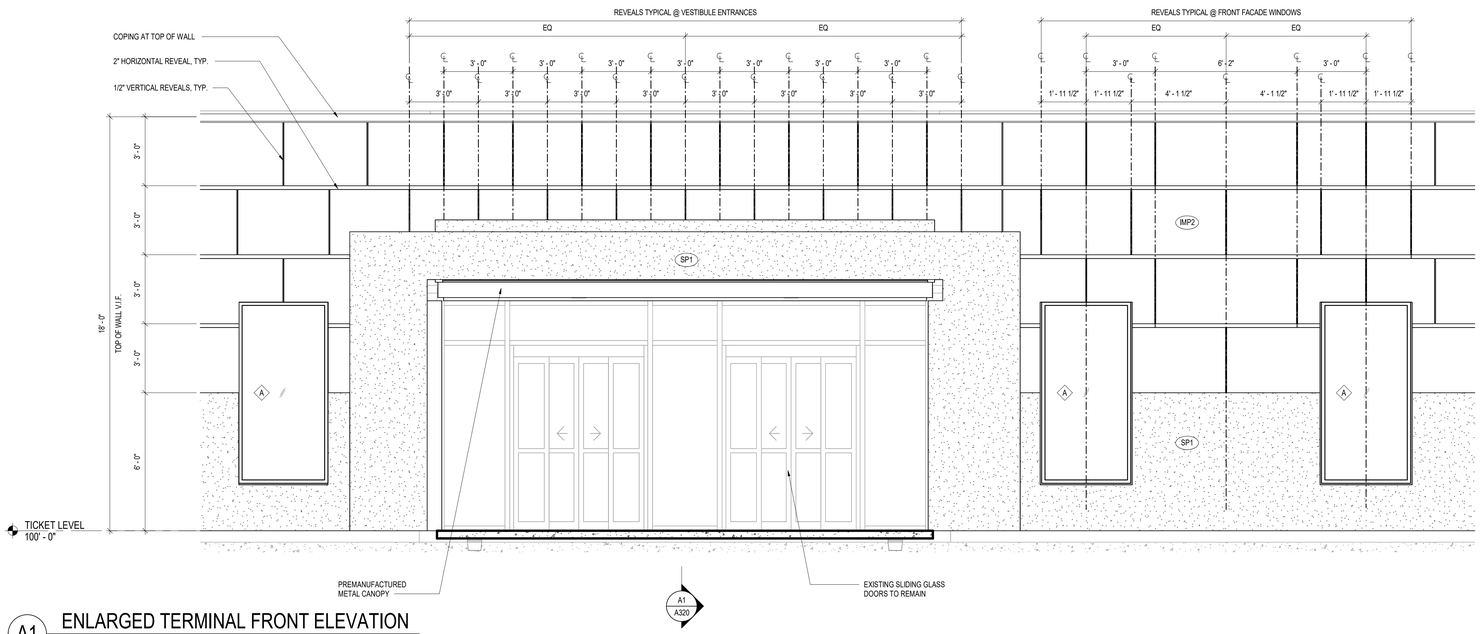
PROJECT STATUS:
100% BID SET

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C1 ENLARGED EXTENDED VESTIBULE ELEVATION - WEST

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



A1 ENLARGED TERMINAL FRONT ELEVATION

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

2 0 2 4 6

SCALE: 3/8" = 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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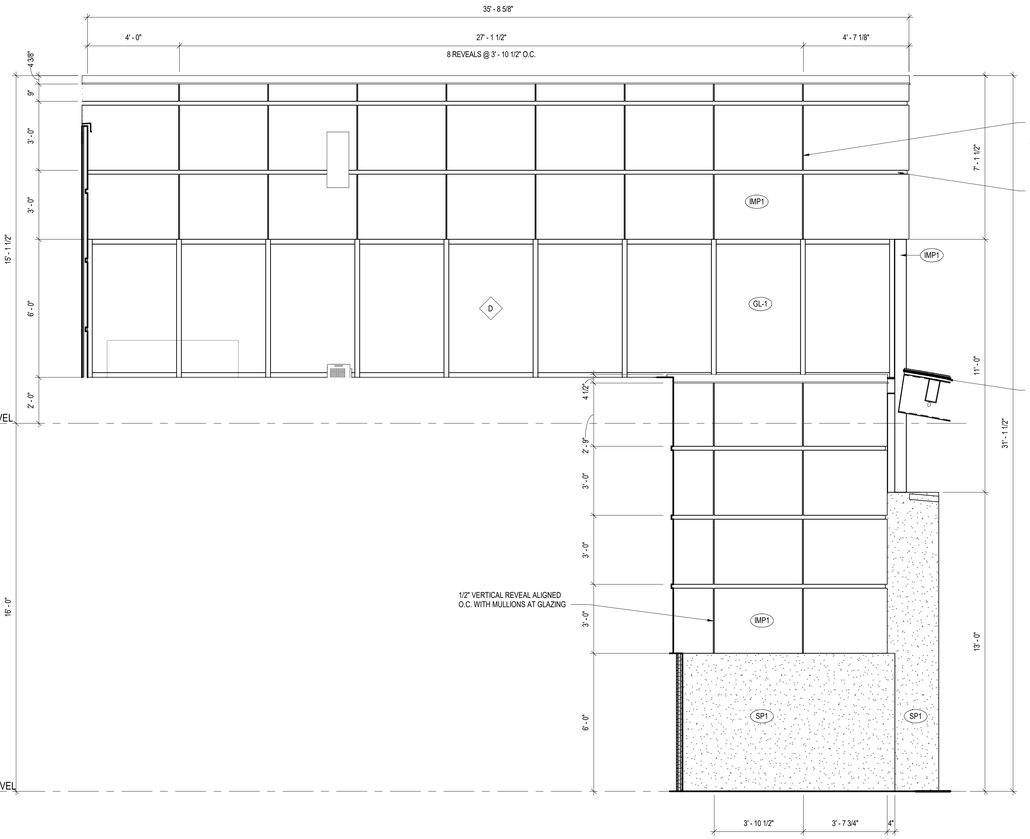
SHEET TITLE:
BUILDING ELEVATIONS

SHEET ID:
A202

PROJECT STATUS:
100% BID SET

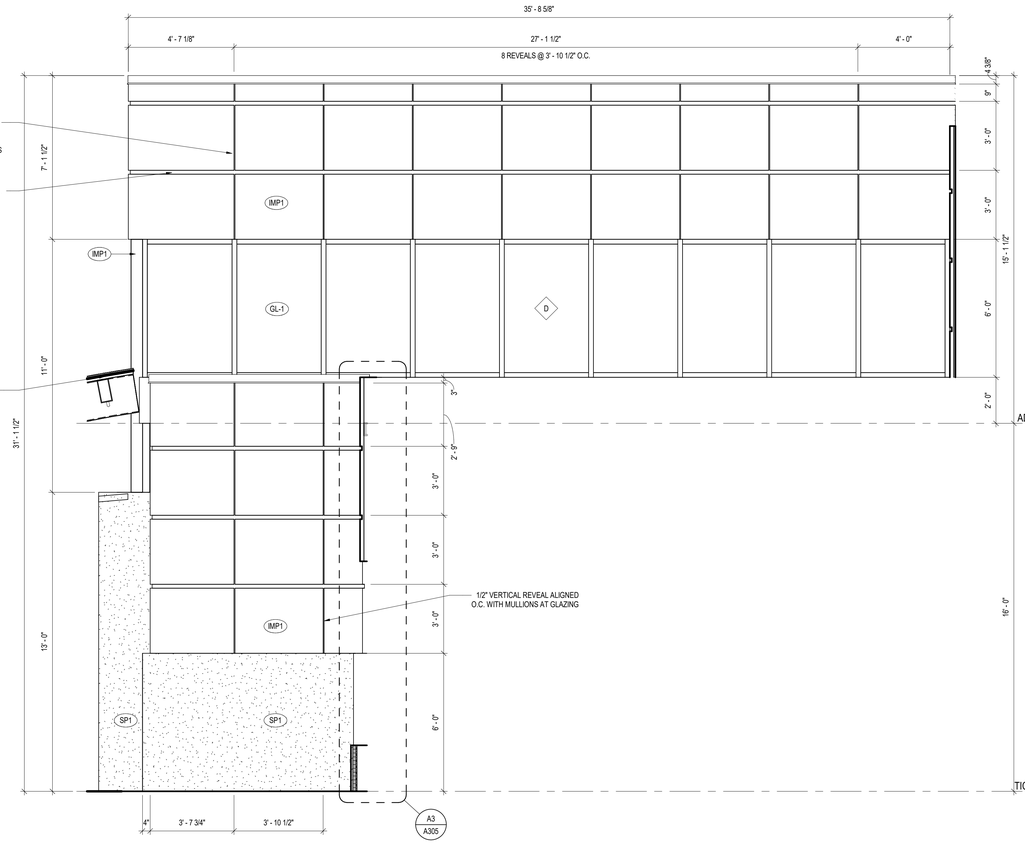
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A1 EXPANDED VESTIBULE ELEVATION - NORTH

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



A4 EXPANDED VESTIBULE ELEVATION - SOUTH

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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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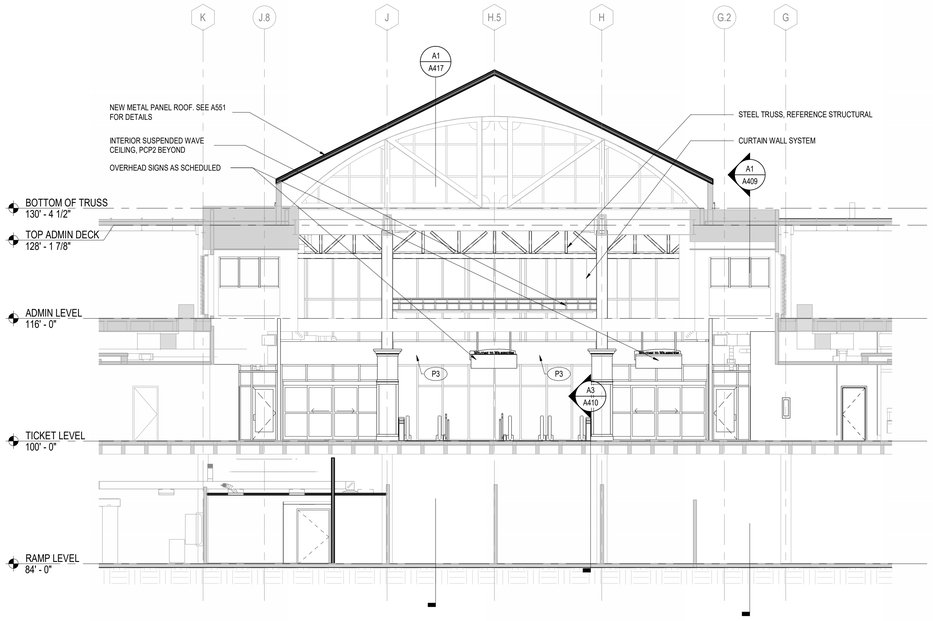
SHEET TITLE:
BUILDING ELEVATIONS

SHEET ID:
A203

PROJECT STATUS:
100% BID SET

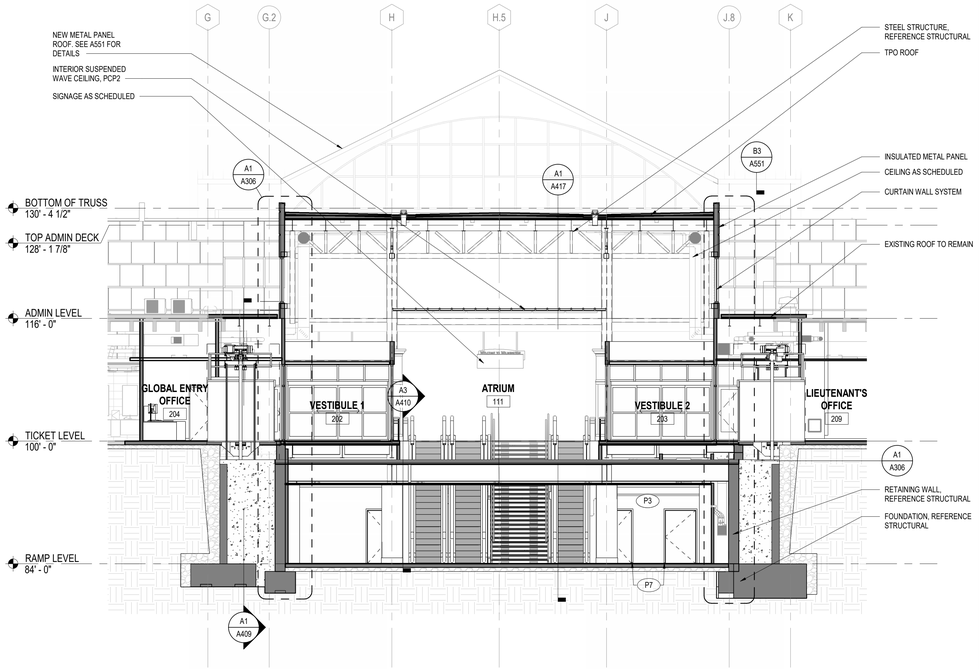
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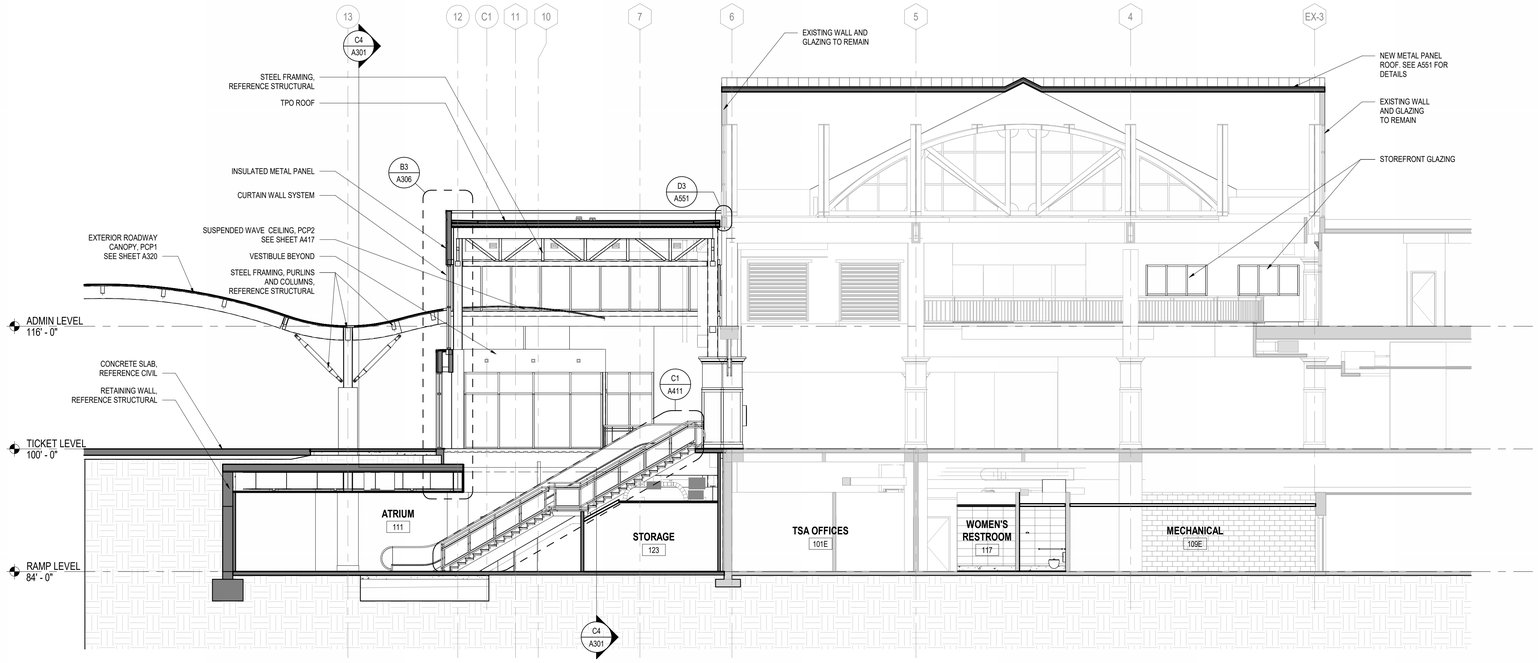
C1 ENTRY VESTIBULE SECTION

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



C4 CIRCULATION CORE SECTION

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



A1 TERMINAL BUILDING SECTION

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

8 0 8 16

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

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DATE ISSUED:	03/14/2025
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PROJECT NUMBER:	1003-0070-004

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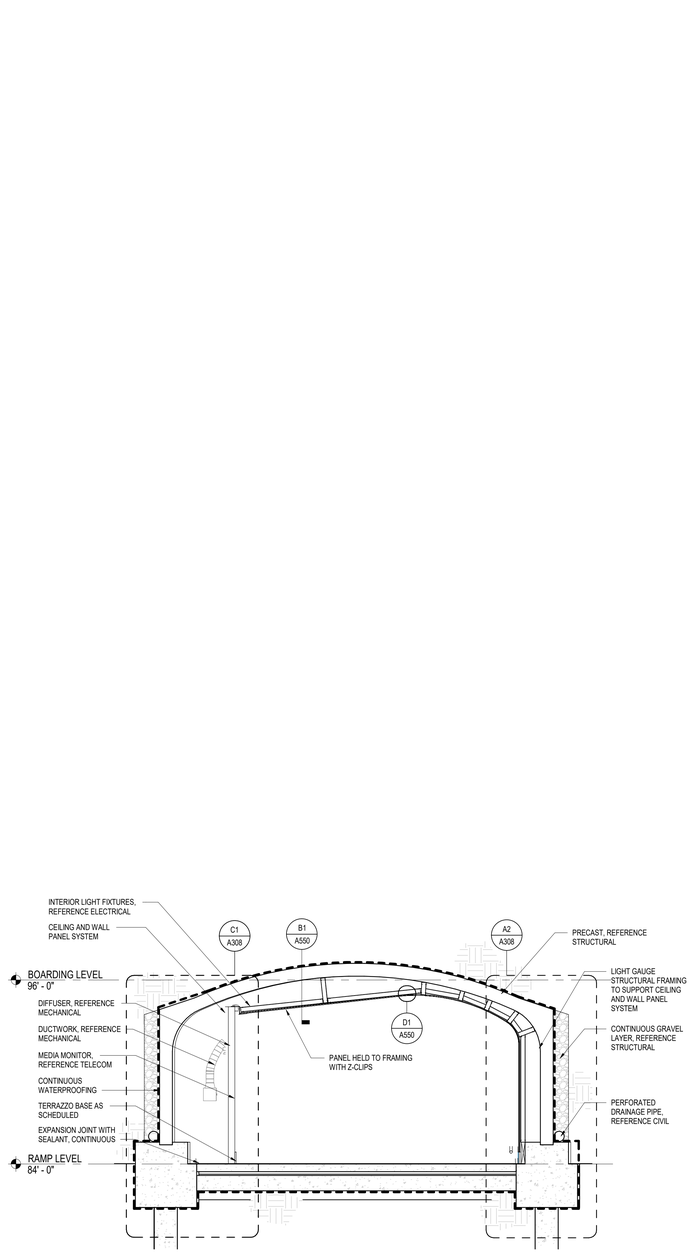
SHEET TITLE:
BUILDING SECTIONS

SHEET ID:
A301

PROJECT STATUS:
100% BID SET

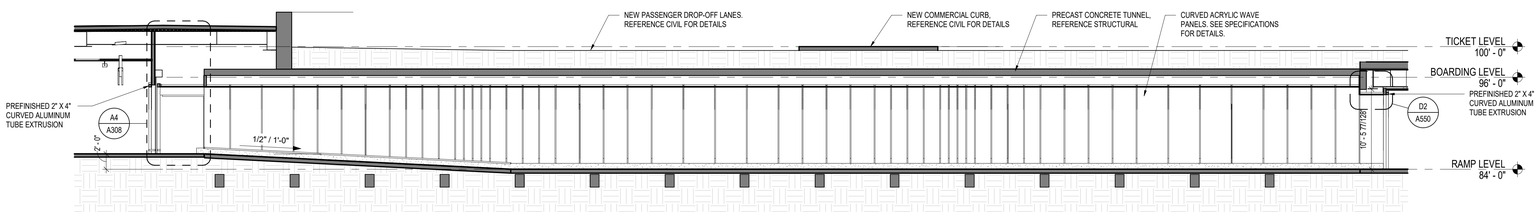
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B1 CONNECTOR SECTION

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



A1 CONNECTOR AT GARAGE SECTION

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

4 0 4 8

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

8 0 8 16

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

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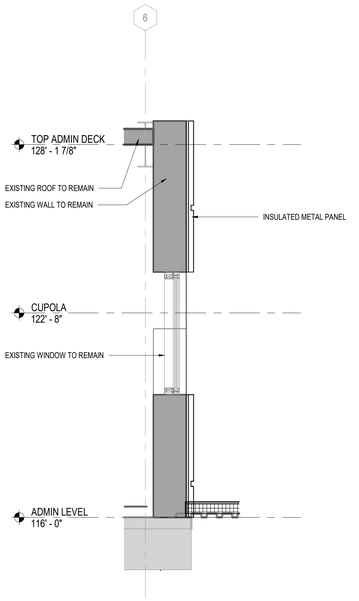
SHEET TITLE:
CONNECTOR SECTIONS

SHEET ID:
A302

PROJECT STATUS:
100% BID SET

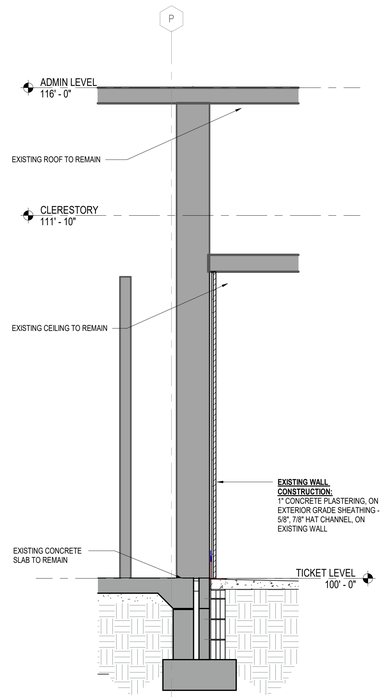
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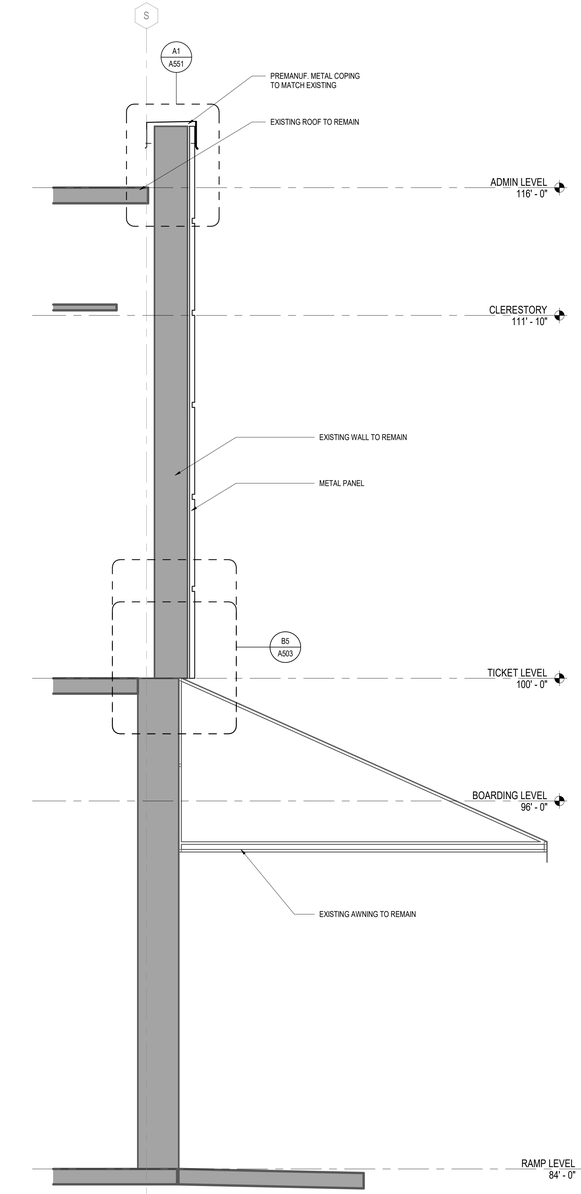
D1 ADMIN LEVEL RECLADDING AT WINDOW

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



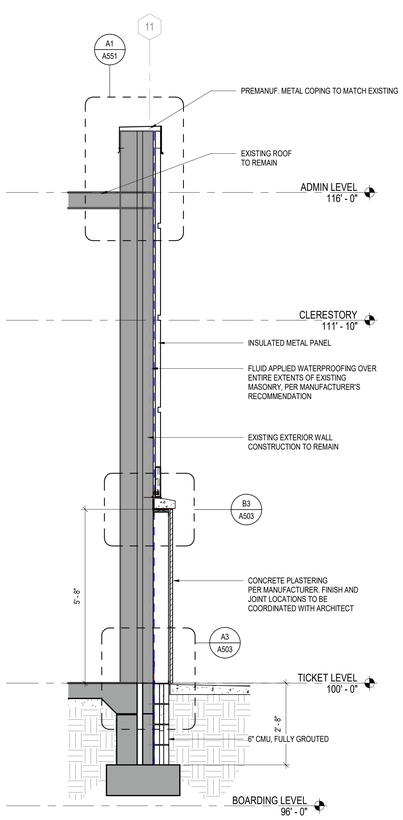
D2 CONCRETE PLASTER AT EXT EXISTING VESTIBULE

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



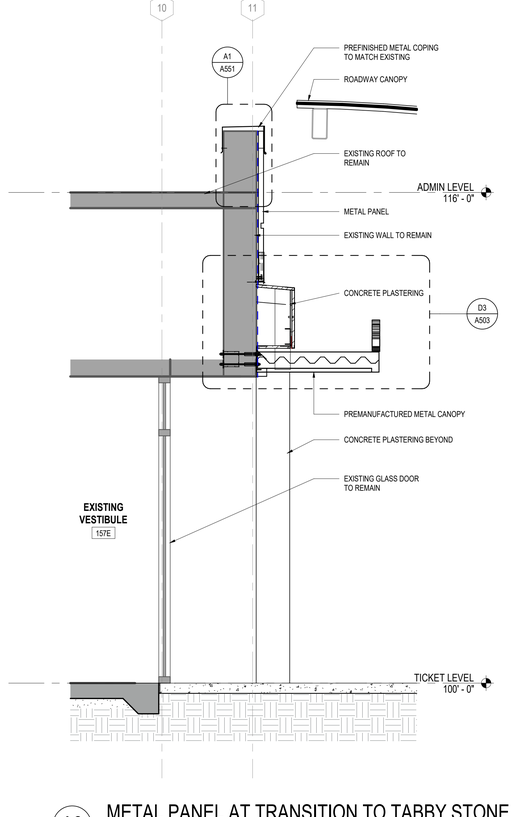
A5 METAL PANEL AT EXISTING AWNING

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



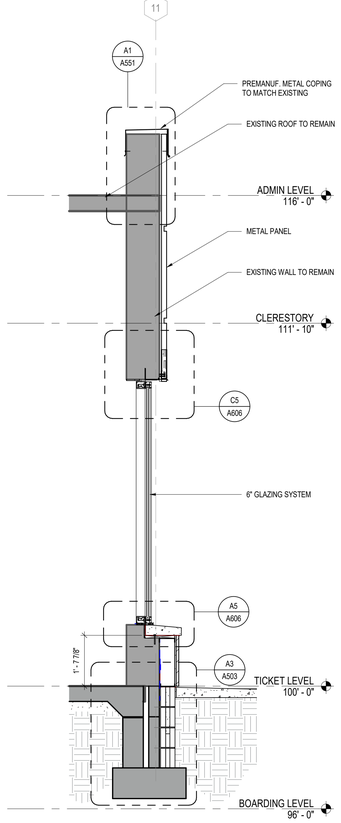
A1 RECLADDING AT EXISTING WALL

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



A2 METAL PANEL AT TRANSITION TO TABBY STONE

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



A3 RECLADDING AT WINDOW

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

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

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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.

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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:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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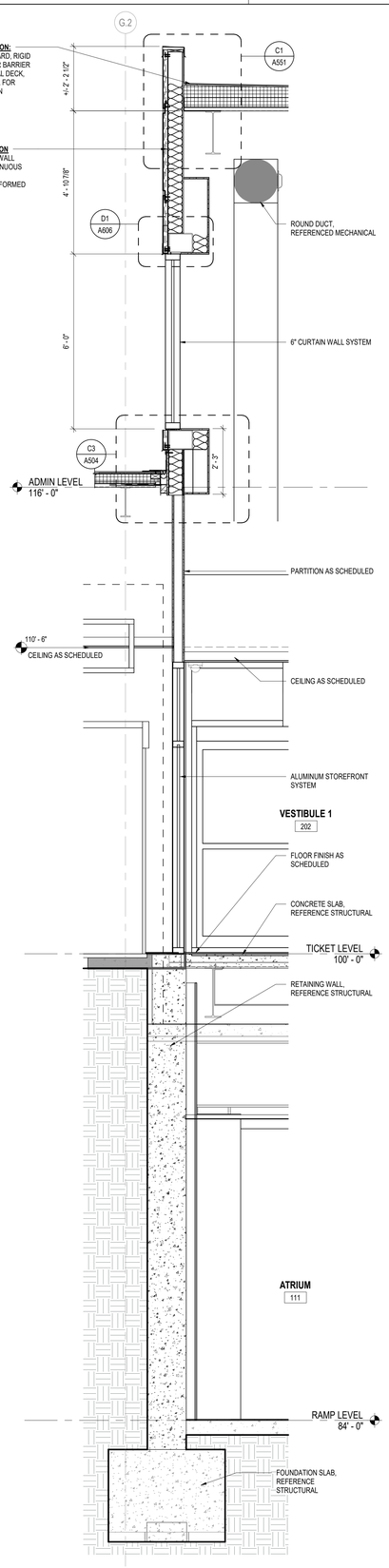
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SHEET TITLE:
WALL SECTIONS

SHEET ID:
A305

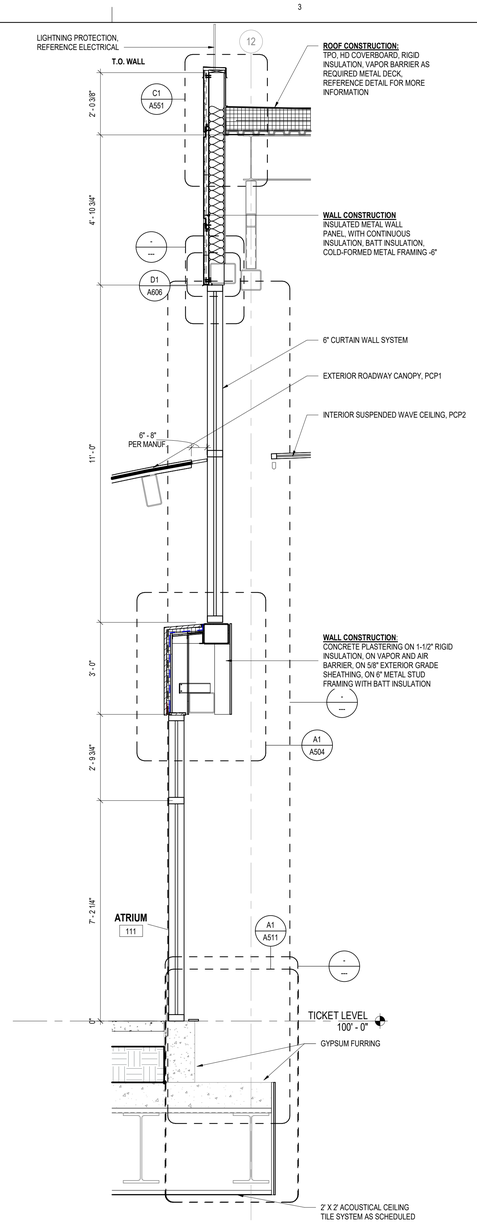
PROJECT STATUS:
100% BID SET

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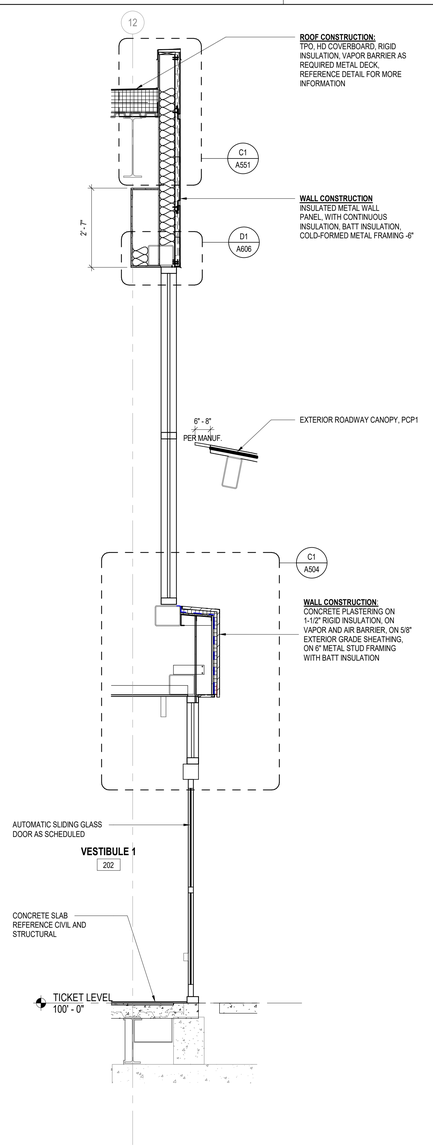
A1 NORTH VESTIBULE WALL SECTION AT EXISTING

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



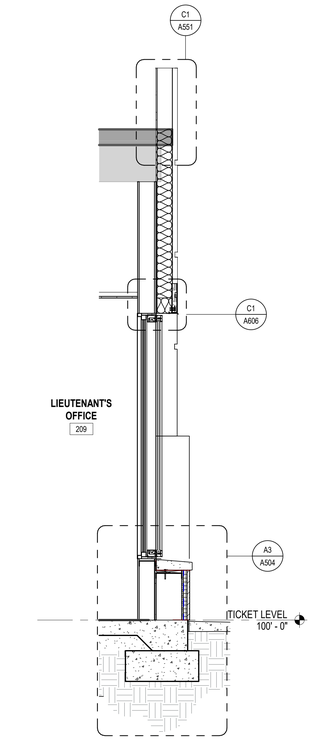
B3 SECTION AT METAL PANEL / CURTAIN WALL

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



B4 SECTION AT METAL PANEL / GLASS DOOR

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



B5 SECTION AT WINDOW

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

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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.

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

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ILM

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REVISIONS

NO.	DESCRIPTION	DATE

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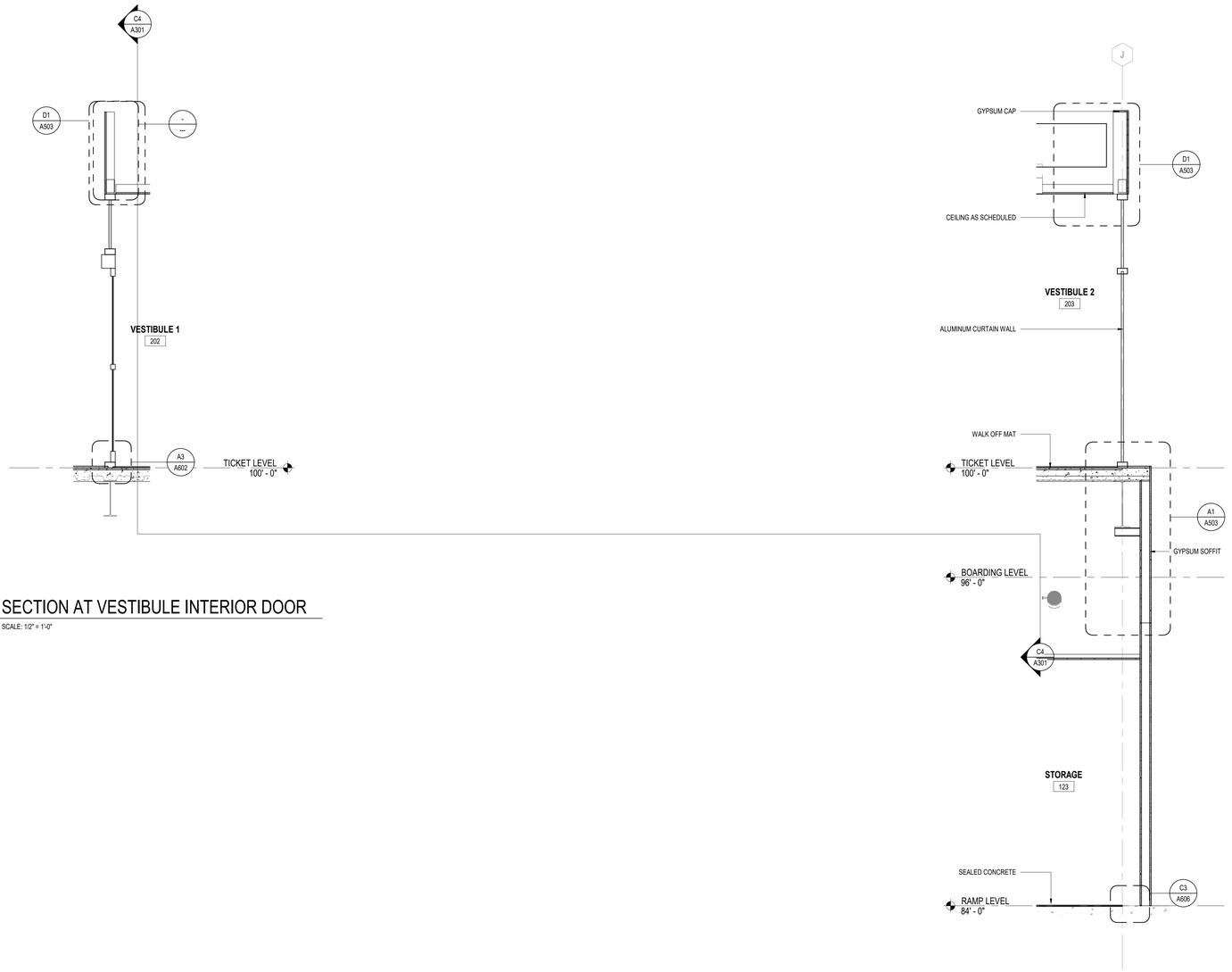
SHEET TITLE:
WALL SECTIONS

SHEET ID:
A306

PROJECT STATUS:
100% BID SET

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D1 SECTION AT VESTIBULE INTERIOR DOOR

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

B4 SECTION AT VESTIBULE 2 / SOFFIT

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

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DESIGNED BY:	FG

PROJECT NUMBER:
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SHEET TITLE:
INTERIOR WALL SECTIONS

SHEET ID:
A307

PROJECT STATUS:
100% BID SET

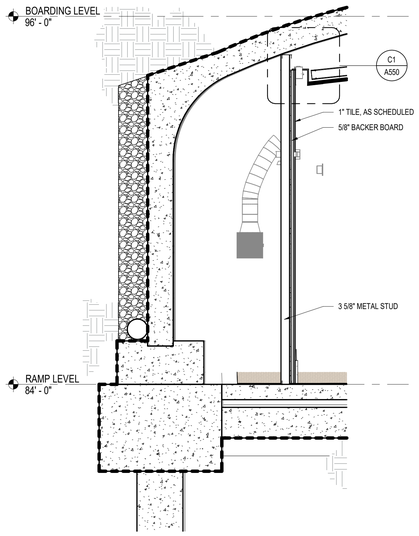
2 0 2 4
SCALE: 1/2" = 1'-0"

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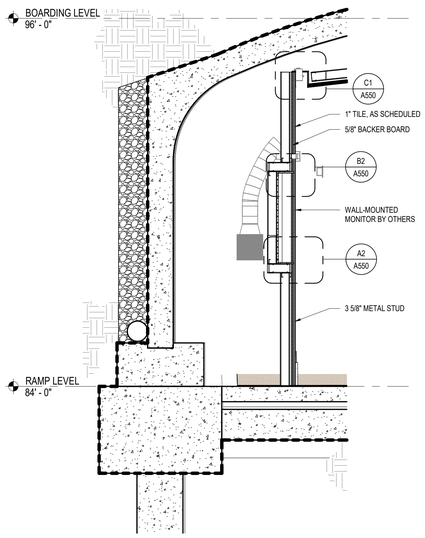
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GENERAL NOTES

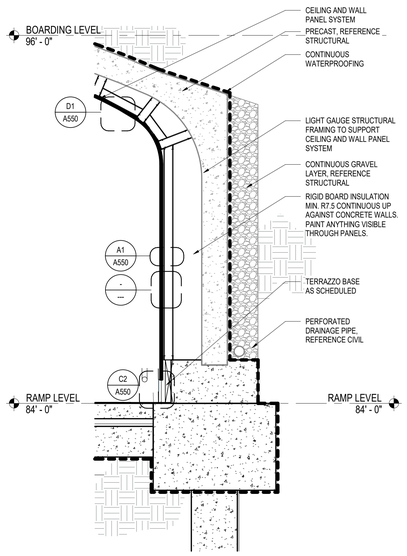
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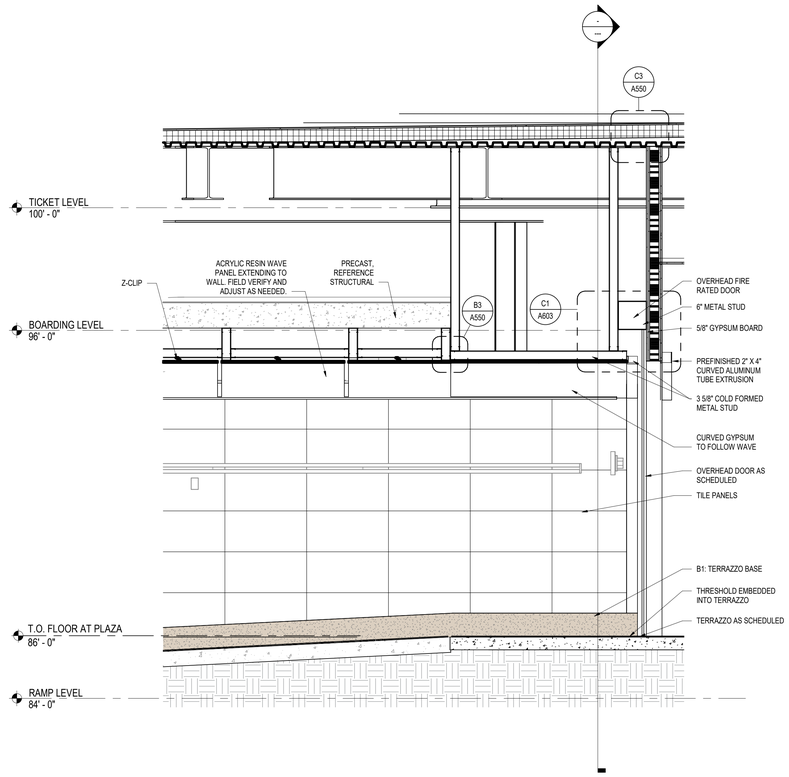
C1 CONNECTOR SOUTH WALL SECTION
SCALE: 1/2" = 1'-0"



A1 CONNECTOR MONITOR RECESS SECTION
SCALE: 1/2" = 1'-0"



A2 CONNECTOR NORTH WALL SECTION
SCALE: 1/2" = 1'-0"



A4 CONNECTOR AT GARAGE SECTION
SCALE: 1/2" = 1'-0"

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

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ILM

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WILMINGTON, NC 28405

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

PROJECT NUMBER:
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SHEET TITLE:
CONNECTOR WALL SECTIONS

SHEET ID:
A308

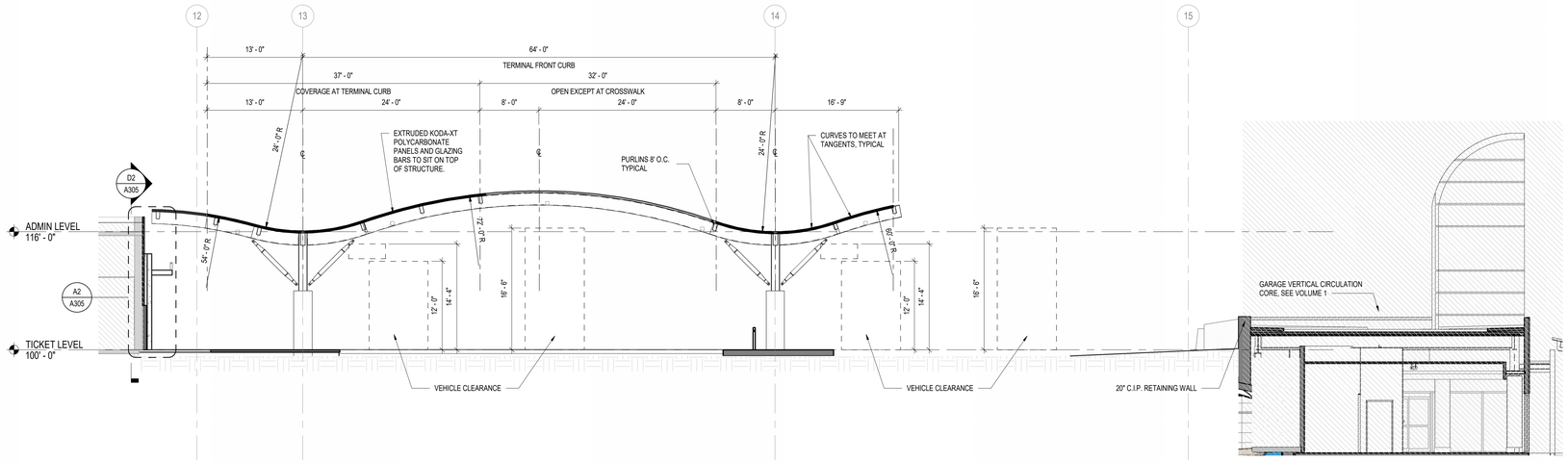
PROJECT STATUS:
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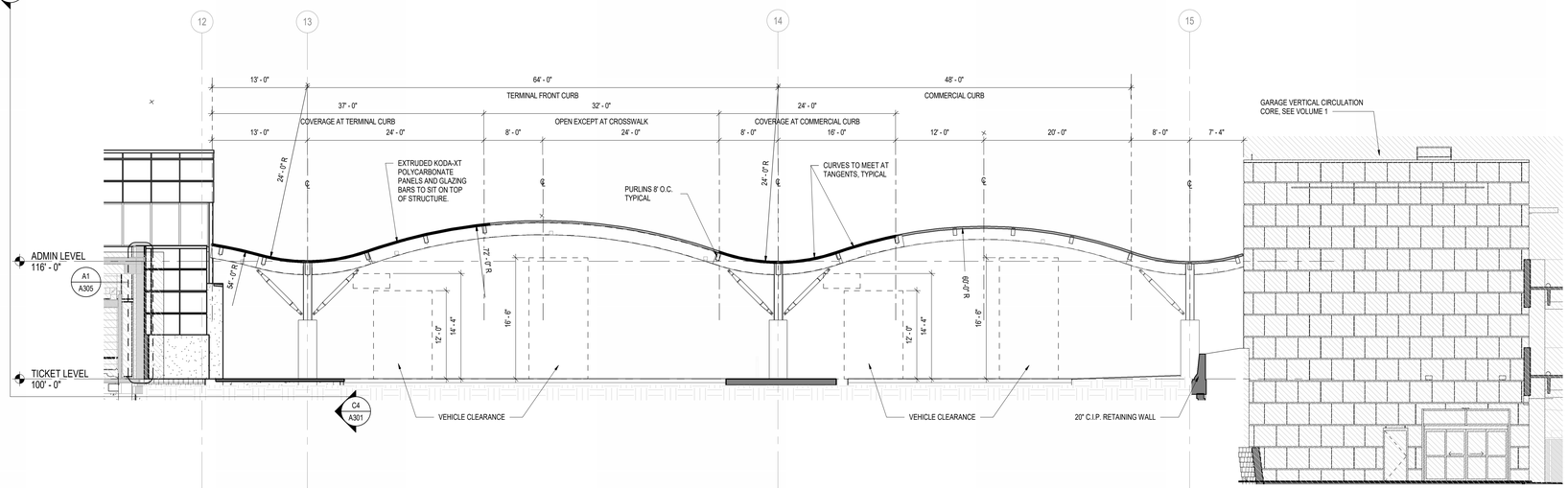
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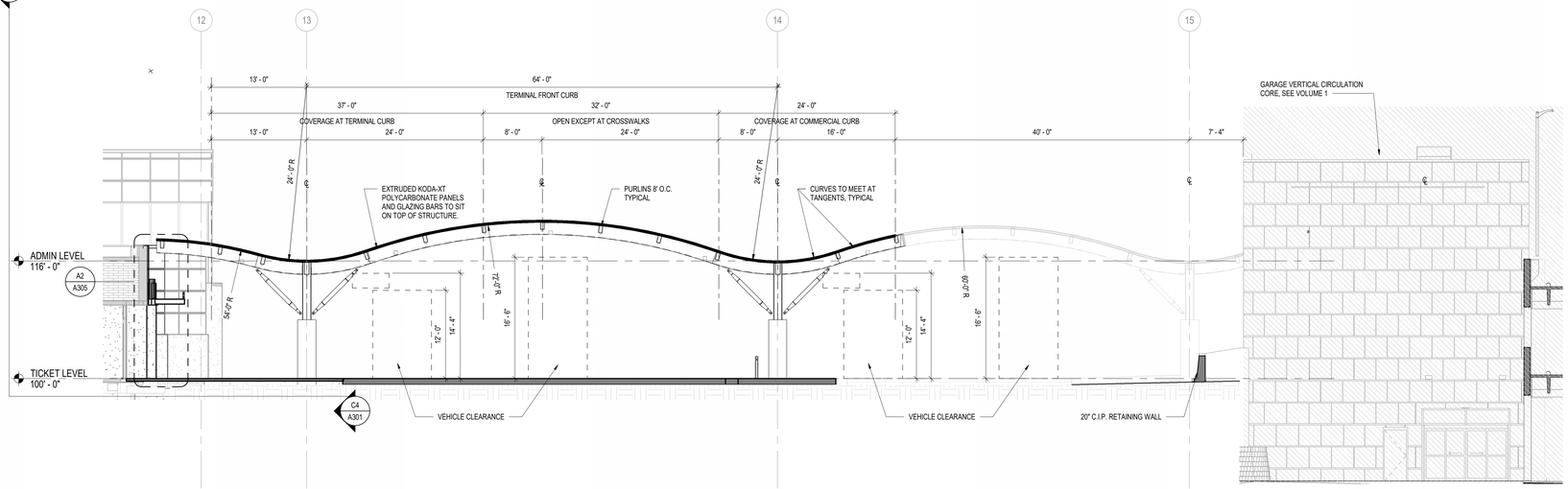
E1 ROADWAY CANOPY PROFILE SECTION 03

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



C1 ROADWAY CANOPY PROFILE SECTION 02

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



A1 ROADWAY CANOPY PROFILE SECTION 01

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

8 0 8 16

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

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Phone: 704-752-0810, Fax: 704-949-2672
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North Carolina License Nos. 50073 *
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:	SG
DRAWN BY:	TP
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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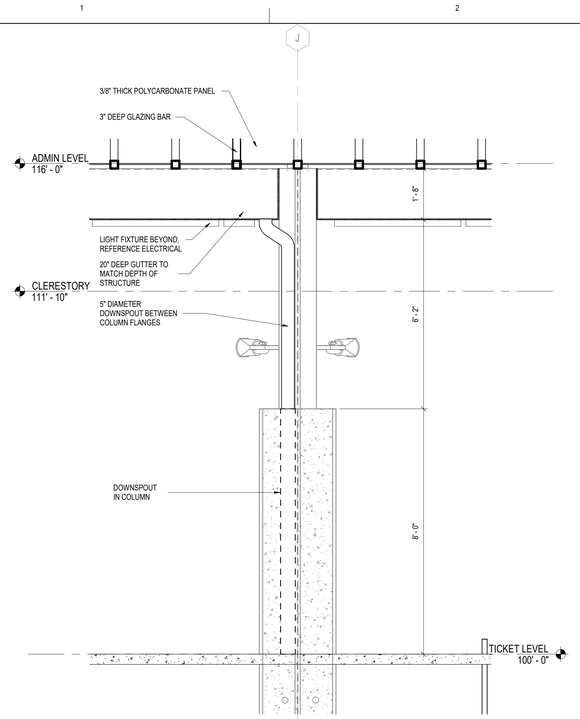
SHEET TITLE:
ROADWAY CANOPY SECTIONS

SHEET ID:
A320

PROJECT STATUS:
100% BID SET

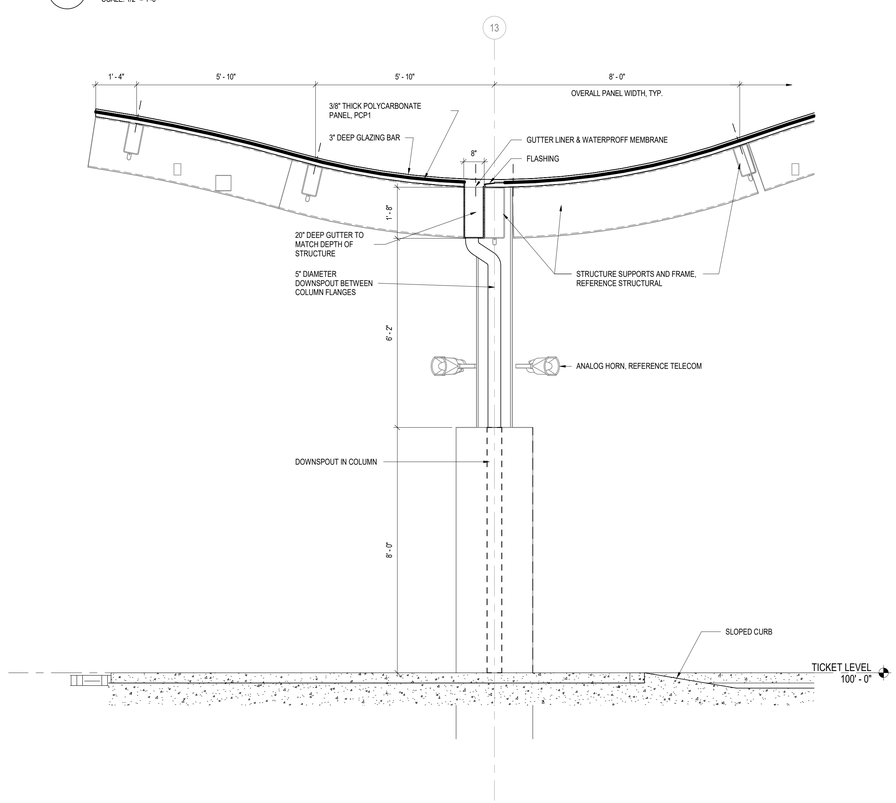
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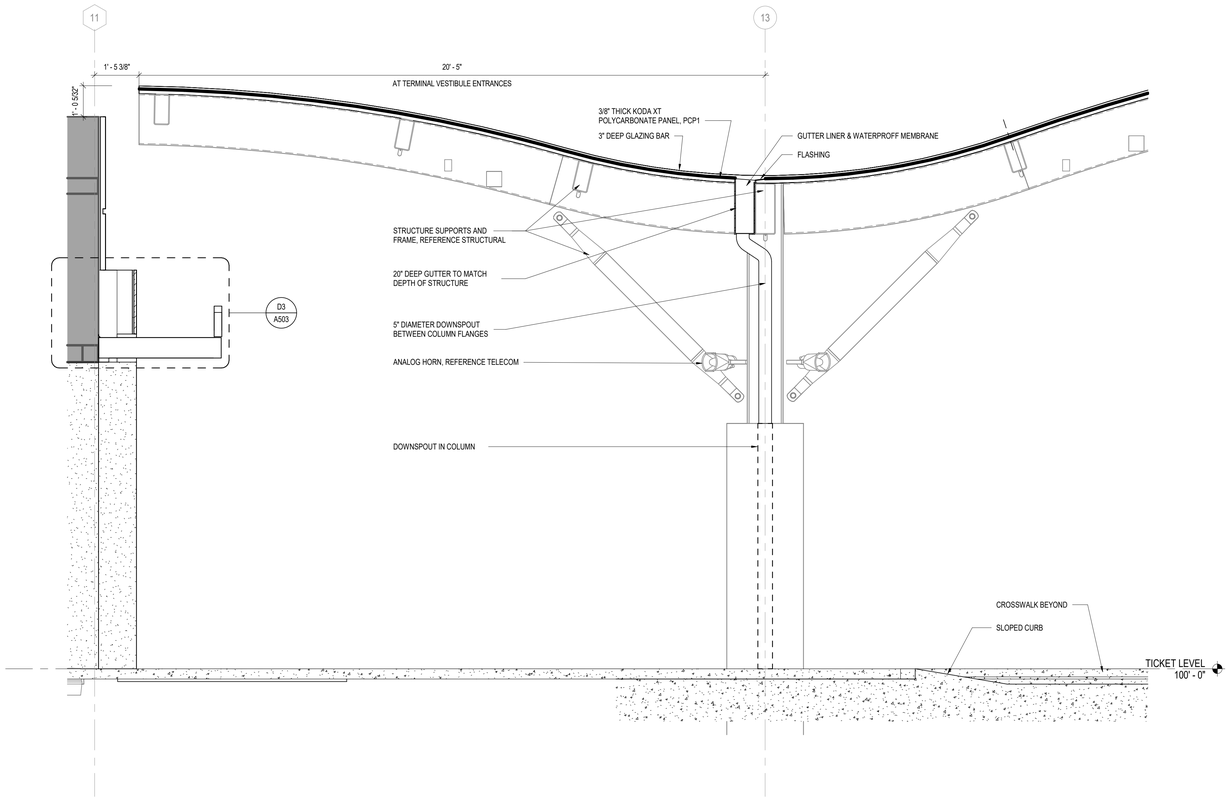
C1 ROADWAY COLUMN SECTION TYPICAL

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



A1 ROADWAY CANOPY SECTION AT VALLEY TYPICAL

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



A3 ROADWAY CANOPY SECTION AT TERMINAL ENTRANCE TYPICAL

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

2 0 2 4

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

GENERAL NOTES

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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.

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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:
ROADWAY CANOPY COLUMN SECTIONS

SHEET ID:
A321

PROJECT STATUS:
100% BID SET

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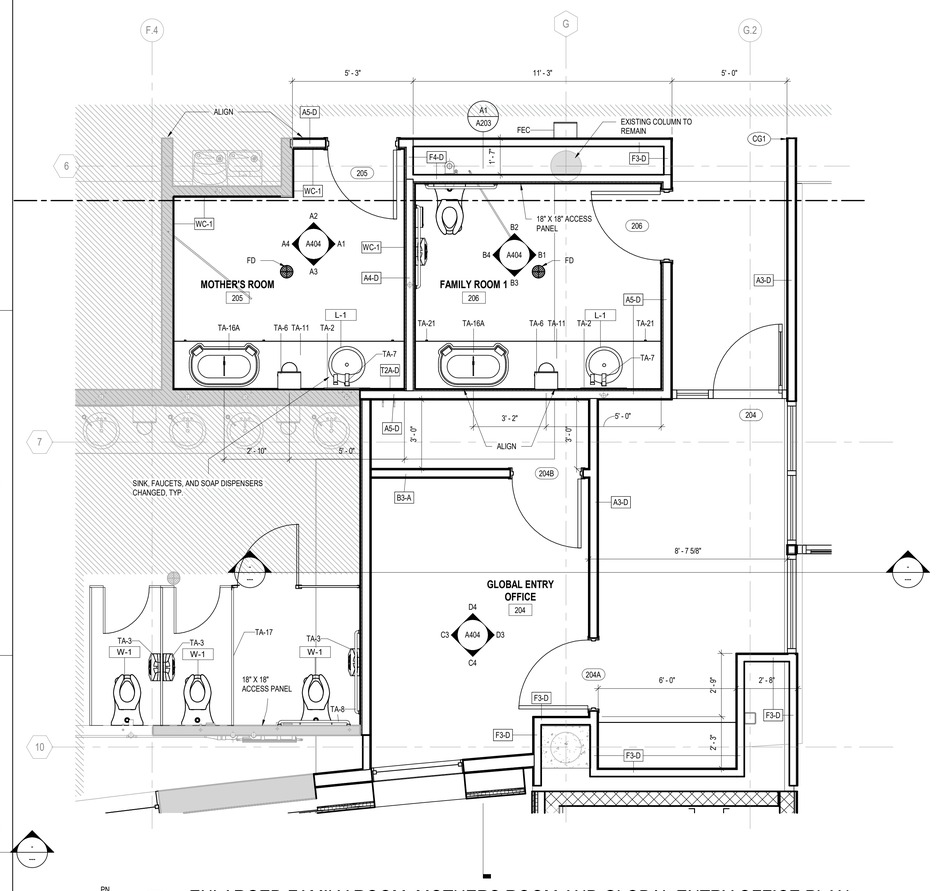
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TOILET ACCESSORY SCHEDULE

TAG	ACCESSORY	MANUFACTURER	MODEL	POWER REQUIREMENT	FINISH MATERIAL
TA-2	SILHOUETTE LIGHTED MIRROR - 24" X 48" LIGHTED LED MIRROR	ELECTRIC MIRROR	SIL3-24.00x48.00-LHED-30K	YES, SEE ELECTRICAL DRAWINGS	
TA-3	TOILET TISSUE(ROLL) DISPENSER	OFCI		NO	
TA-4	SANITARY NAPKIN DISPOSAL	BOBRICK WASHROOM EQUIPMENT, INC.	B-254	NO	STAINLESS STEEL
TA-5	SURFACE MOUNTED CONVERTIBLE AUTOMATIC, UNIVERSAL ROLL TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	B-3979	YES, SEE ELECTRICAL DRAWINGS	STAINLESS STEEL
TA-6	PAPER TOWEL DISPENSER	OFCI		NO	STAINLESS STEEL
TA-7	SENSOR ACTIVATED ELECTRONIC SOAP DISPENSER	SLOAN	ESD-500	YES, SEE ELECTRICAL DRAWINGS	
TA-8	36" / 42" GRAB BAR	KOHLER	K-11896-BS	NO	BRUSHED STAINLESS
TA-9	SHOWER CURTAIN ROD	BOBRICK	B-207x48	NO	STAINLESS STEEL
TA-10	COAT HOOK (60" A.F.F.)	MOCKETT	CH53	NO	SATIN-FINISH STAINLESS STEEL
TA-11	UNDERCOUNTER PULL OUT TRASH RECEPTACLE	POLDER	1410-47	NO	SATIN-FINISH STAINLESS STEEL
TA-16A	BABY CHANGING STATION	KOALA KARE	KB112-01RE	NO	SEE SPECS
TA-16B	BABY CHANGING STATION	KOALA KARE	KB310-SSRE	NO	STAINLESS STEEL
TA-17	TOILET PARTITION - CEILING HUNG	BRADLEY CORP.	SERIES 600, CEILING HUNG, WITH OCCASIONAL FLOOR SUPPORT EVERY 3 STALLS	NO	STAINLESS STEEL, DIAMOND FINISH
TA-19	URINAL PARTITION	SEE SPECS		NO	
TA-21	SS PURSE HOOK	SUGATSUNE GLOBAL	PXB-UM05-101	NO	SATIN NICKEL

GENERAL NOTES

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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.

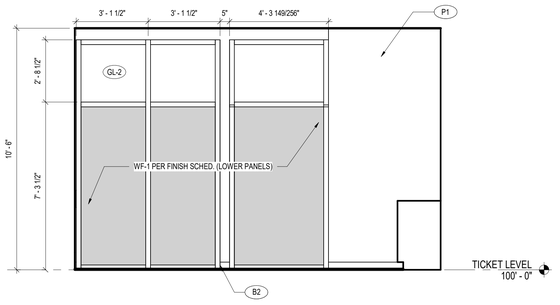


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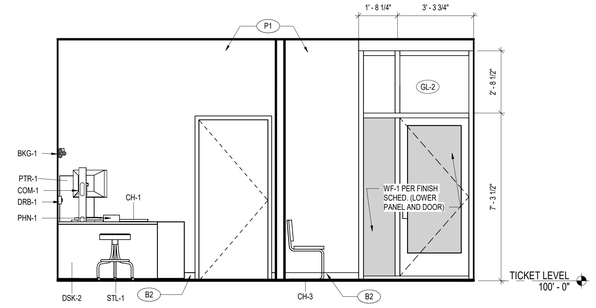
C1 ENLARGED FAMILY ROOM, MOTHERS ROOM AND GLOBAL ENTRY OFFICE PLAN

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



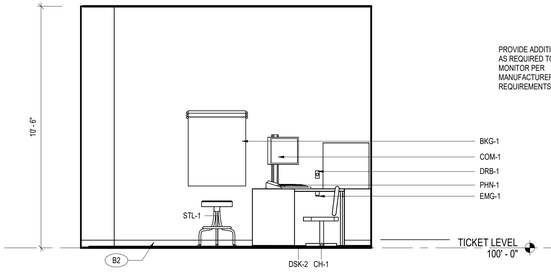
D3 GLOBAL ENTRY OFFICE EAST ELEVATION

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



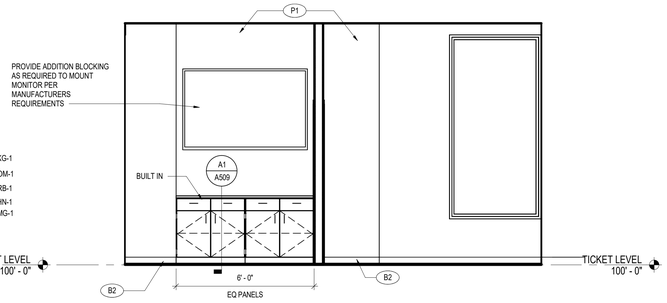
D4 GLOBAL ENTRY OFFICE NORTH ELEVATION

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



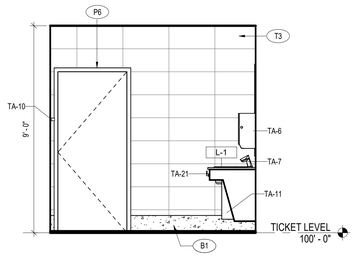
C3 GLOBAL ENTRY OFFICE WEST ELEVATION

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



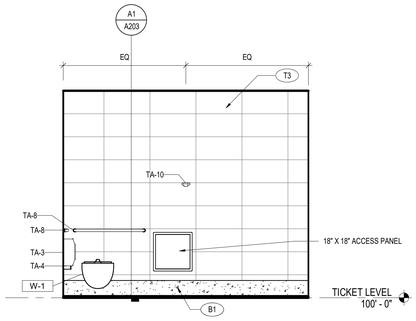
C4 GLOBAL ENTRY OFFICE SOUTH ELEVATION

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



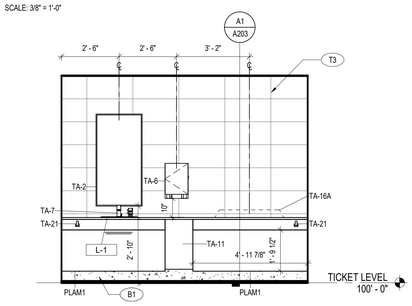
B1 FAMILY ROOM EAST ELEVATION

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



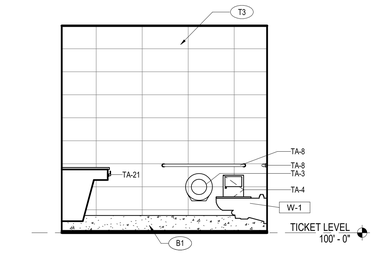
B2 FAMILY ROOM NORTH ELEVATION

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



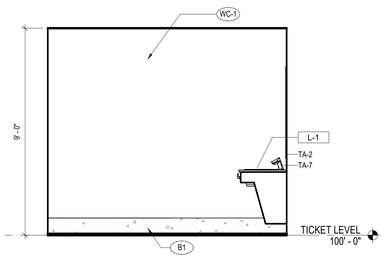
B3 FAMILY ROOM SOUTH ELEVATION

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



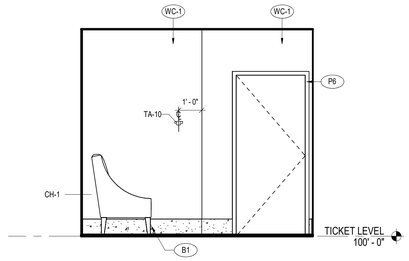
B4 FAMILY ROOM WEST ELEVATION

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



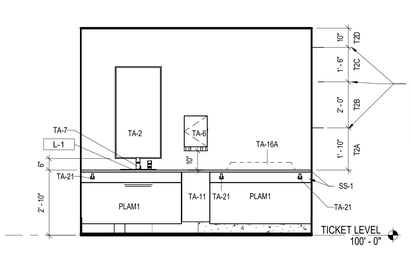
A1 MOTHERS ROOM EAST ELEVATION

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



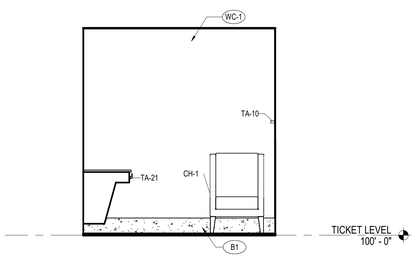
A2 MOTHERS ROOM NORTH ELEVATION

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



A3 MOTHERS ROOM SOUTH ELEVATION

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



A4 MOTHERS ROOM WEST ELEVATION

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

2 0 2 4 6

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

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ILM

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REVISIONS

NO.	DESCRIPTION	DATE

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

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SHEET TITLE:
ENLARGED FAMILY RESTROOM, MOTHERS ROOM, AND GLOBAL ENTRY OFFICE PLANS AND INTERIOR ELEVATIONS

SHEET ID:
A404

PROJECT STATUS:
100% BID SET

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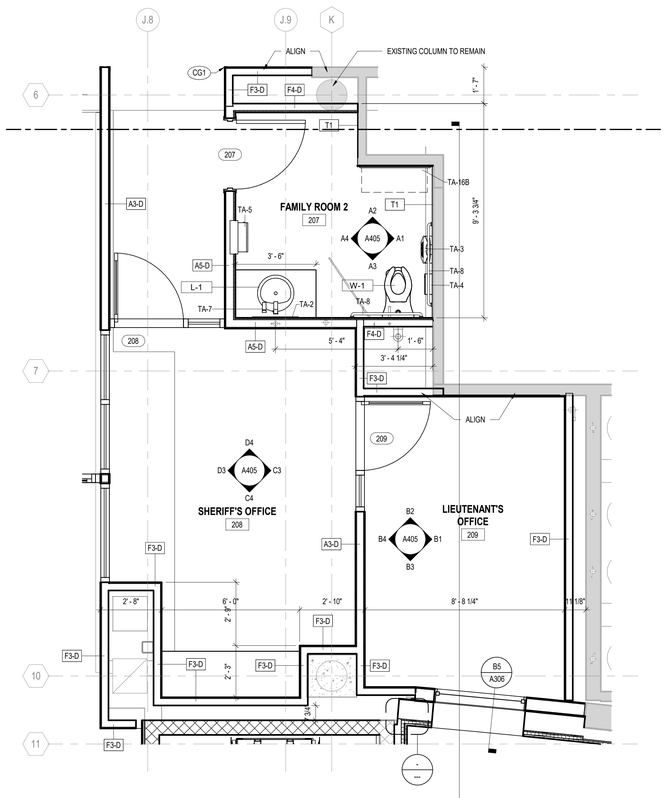
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TOILET ACCESSORY SCHEDULE

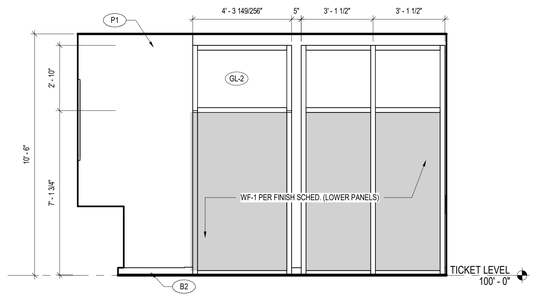
TAG	ACCESSORY	MANUFACTURER	MODEL	POWER REQUIREMENT	FINISH MATERIAL
TA-2	SILHOUETTE LIGHTED MIRROR - 24" X 48" LIGHTED LED MIRROR	ELECTRIC MIRROR	SIL3-24.00x48.00-LHED-30K	YES, SEE ELECTRICAL DRAWINGS	
TA-3	TOILET TISSUE(ROLL) DISPENSER	OFCI		NO	
TA-4	SANITARY NAPKIN DISPOSAL	BOBRICK WASHROOM EQUIPMENT, INC.	B-254	NO	STAINLESS STEEL
TA-5	SURFACE MOUNTED CONVERTIBLE AUTOMATIC, UNIVERSAL ROLL TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	B-3979	YES, SEE ELECTRICAL DRAWINGS	STAINLESS STEEL
TA-6	PAPER TOWEL DISPENSER	OFCI		NO	STAINLESS STEEL
TA-7	SENSOR ACTIVATED ELECTRONIC SOAP DISPENSER	SLOAN	ESD-500	YES, SEE ELECTRICAL DRAWINGS	
TA-8	36" / 42" GRAB BAR	KOHLER	K-11896-BS	NO	BRUSHED STAINLESS
TA-9	SHOWER CURTAIN ROD	BOBRICK	B-207x48	NO	STAINLESS STEEL
TA-10	COAT HOOK (60" A.F.F.)	MOCKETT	CH53	NO	SATIN-FINISH STAINLESS STEEL
TA-11	UNDERCOUNTER PULL OUT TRASH RECEPTACLE	POLDER	1410-47	NO	SATIN-FINISH STAINLESS STEEL
TA-16A	BABY CHANGING STATION	KOALA KARE	KB112-01RE	NO	SEE SPECS
TA-16B	BABY CHANGING STATION	KOALA KARE	KB310-SSRE	NO	STAINLESS STEEL
TA-17	TOILET PARTITION - CEILING HUNG	BRADLEY CORP.	SERIES 600, CEILING HUNG, WITH OCCASIONAL FLOOR SUPPORT EVERY 3 STALLS	NO	STAINLESS STEEL, DIAMOND FINISH
TA-19	URINAL PARTITION	SEE SPECS		NO	
TA-21	SS PURSE HOOK	SUGATSUNE GLOBAL	PXB-UM05-101	NO	SATIN NICKEL

GENERAL NOTES

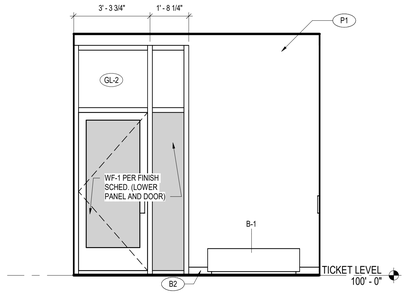
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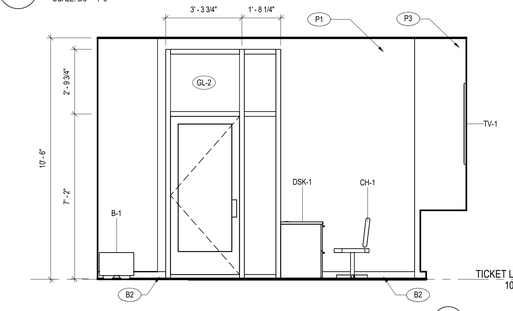
C1 ENLARGED FAMILY ROOM AND SHERIFF'S SUITE
SCALE: 3/8" = 1'-0"



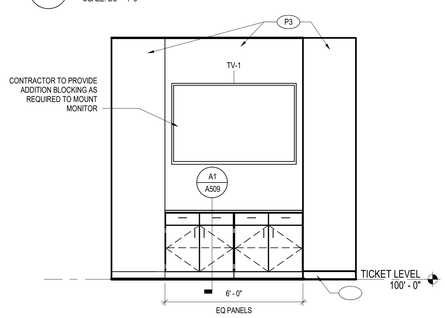
D3 SHERIFF'S OFFICE WEST ELEVATION
SCALE: 3/8" = 1'-0"



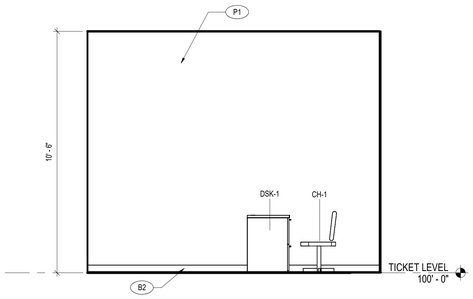
D4 SHERIFF'S OFFICE NORTH ELEVATION
SCALE: 3/8" = 1'-0"



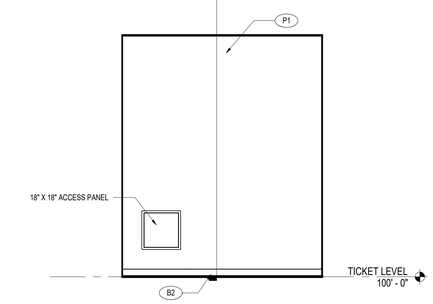
C3 SHERIFF'S OFFICE EAST ELEVATION
SCALE: 3/8" = 1'-0"



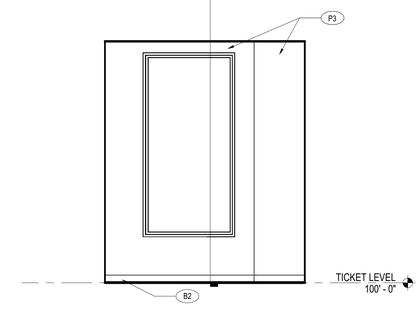
C4 SHERIFF'S OFFICE SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



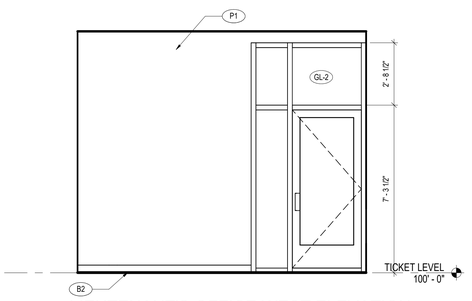
B1 LIEUTENANT'S OFFICE EAST ELEVATION
SCALE: 3/8" = 1'-0"



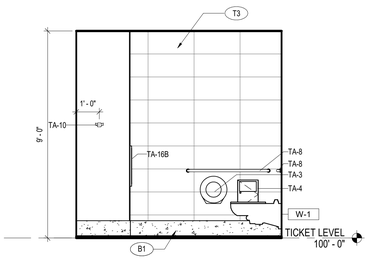
B2 LIEUTENANT'S OFFICE NORTH ELEVATION
SCALE: 3/8" = 1'-0"



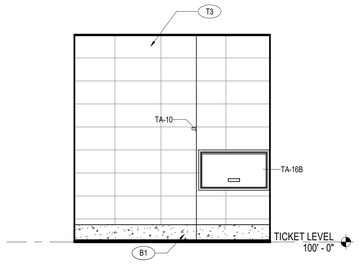
B3 LIEUTENANT'S OFFICE SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



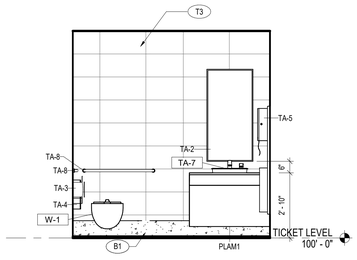
B4 LIEUTENANT'S OFFICE WEST ELEVATION
SCALE: 3/8" = 1'-0"



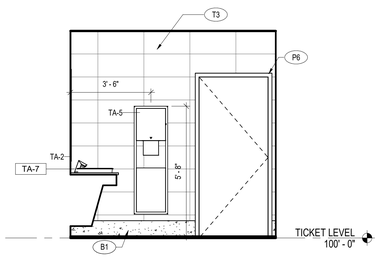
A1 FAMILY ROOM EAST ELEVATION
SCALE: 3/8" = 1'-0"



A2 FAMILY ROOM NORTH ELEVATION
SCALE: 3/8" = 1'-0"



A3 FAMILY ROOM SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



A4 FAMILY ROOM WEST ELEVATION
SCALE: 3/8" = 1'-0"

2 0 2 4 6
SCALE: 3/8" = 1'-0"

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ILM

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PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

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

PROJECT NUMBER:
1003-0070-004

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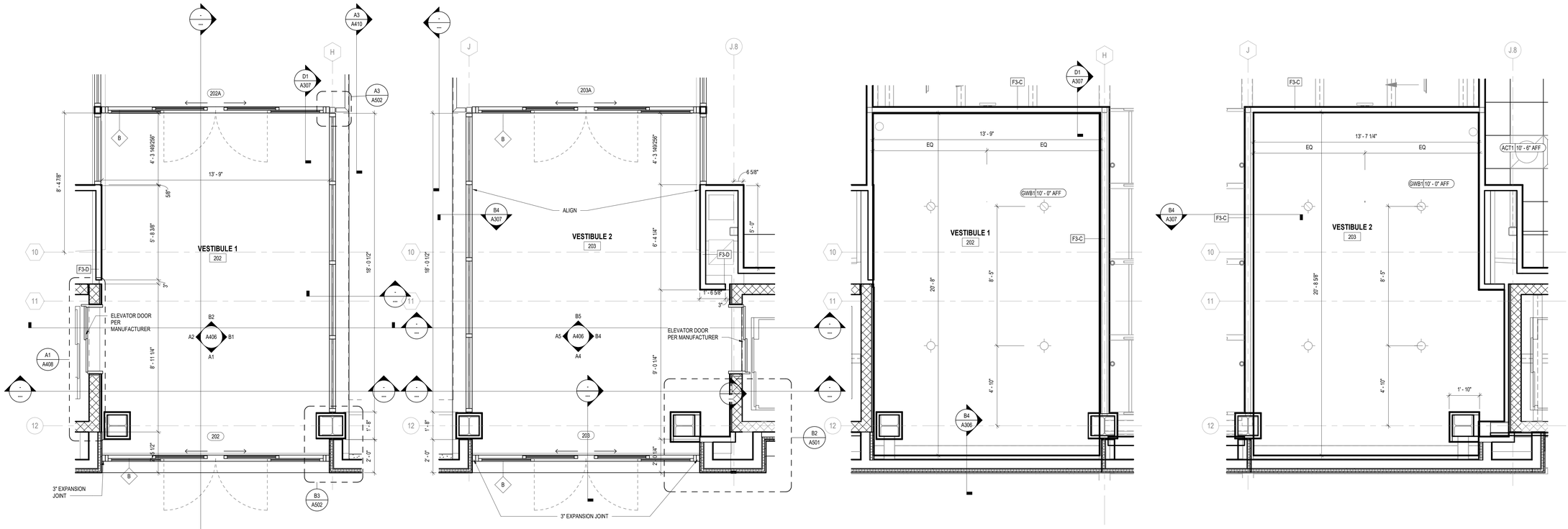
SHEET TITLE:
ENLARGED FAMILY RESTROOM AND SHERIFF'S OFFICE PLANS AND INTERIOR ELEVATIONS

SHEET ID:
A405

PROJECT STATUS:
100% BID SET

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3/14/2025 8:25:55 PM Autodesk Docs://1003007004_ILM TO4 Runway Intl Improv Design/1003007004_ILM_TO4 Terminal and Tunnel_A_R24.rvt



C1 ENLARGED VESTIBULE 1 FLOOR PLAN

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

C2 ENLARGED VESTIBULE 2 FLOOR PLAN

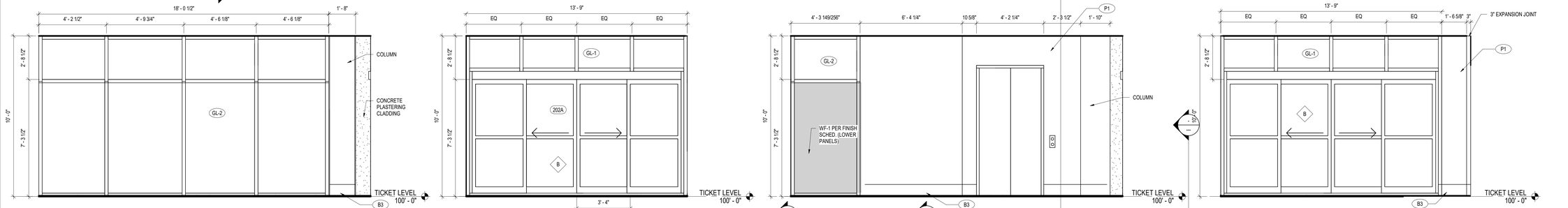
SCALE: 3/8" = 1'-0"

C4 ENLARGED VESTIBULE 1 RCP

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

C5 ENLARGED VESTIBULE 2 RCP

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



B1 VESTIBULE 1 EAST ELEVATION

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

B2 VESTIBULE 1 NORTH ELEVATION

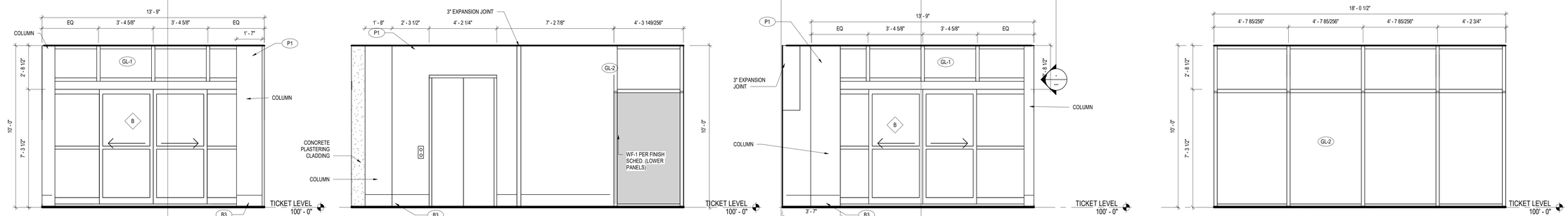
SCALE: 3/8" = 1'-0"

B4 VESTIBULE 2 EAST ELEVATION

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

B5 VESTIBULE 2 NORTH ELEVATION

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



A1 VESTIBULE 1 SOUTH ELEVATION

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

A2 VESTIBULE 1 WEST ELEVATION

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

A4 VESTIBULE 2 SOUTH ELEVATION

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

A5 VESTIBULE 2 WEST ELEVATION

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

SCALE: 3/8" = 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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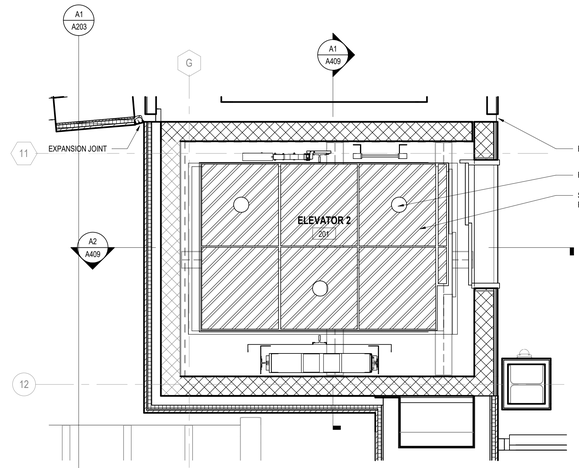
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SHEET TITLE:
ENLARGED VESTIBULE PLANS AND INTERIOR ELEVATIONS

SHEET ID:
A406

PROJECT STATUS:
100% BID SET

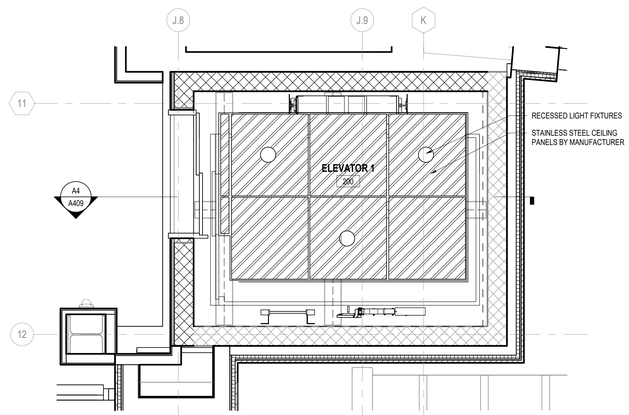
3/14/2025 6:26:10 PM Autodesk Docs://1003007004_ILM TO4 Rdwy Int Improv Design/1003007004_ILM_TO4 Terminal and Tunnel_A_R24.rvt



PN

B1 ELEVATOR 2 RCP

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



PN

B3 ELEVATOR 1 RCP

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

ELEVATOR DESIGN STUDIO

A FORMS+SURFACES DESIGN TOOL

CONFIGURATION OVERVIEW — **ILM GARAGE FINAL - LEVELe-105A**

PANELS

A : I.2 — Custom Gradience

A : II.3 — VinylChrome White Pearlesc+

B : I.1 — Custom Gradience

B : I.2 — VinylChrome White Pearlesc

C : I.2 — Custom Gradience

C : I.3 — VinylChrome White Pearlesc

D : I.1 — Custom Gradience

D : I.2 — VinylChrome White Pearlesc+

E : AII — Stainless Steel Sandstone, No Pattern, Cararrhino+

F : AII — Fused White Gold Sandstone, No Pattern, Cararrhino+



OTHER ELEMENTS

G : Panel Frames — H : Corner Reveals — I : Handrails

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design # 67e33c17cc6582000835c69a — Page 4 of 11 | Rev. 02.06.2025 12:27:12 PM

GENERAL NOTES

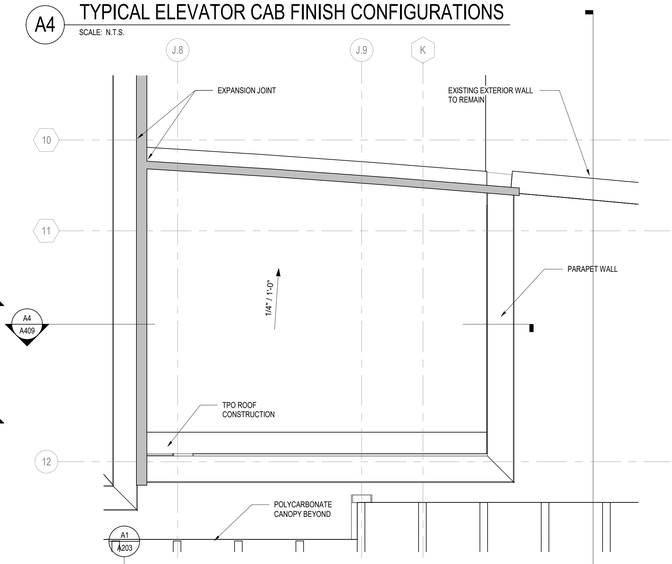
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3. THE CFMF & PLYWOOD SURFACE SHALL BE PLUMB & FLAT WITHIN +/- 1/8".
4. PLYWOOD SHALL EXTEND THE ENTIRETY OF THE VIDEO WALL SURFACE.
5. PROTECT THE TRANSITION STRIPS WHEN GRINDING TERRAZZO TO POLISH FINISH WITH PROTECTION TAPE.
6. ALL EXPOSED PRIMARY STEEL TO BE 2 HR FIRE RATED.

BASIS OF DESIGN

1. SCHINDLER 3300 XL MRL TRACTION ELEVATOR.
2. SCHINDLER 9300 ADVANCED EDITION TYPE 10 30"-M ESCALATOR.

A4 TYPICAL ELEVATOR CAB FINISH CONFIGURATIONS

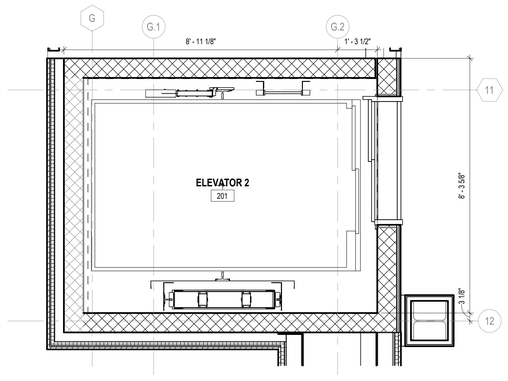
SCALE: N.T.S.



PN

D3 ELEVATOR 1 ROOF PLAN

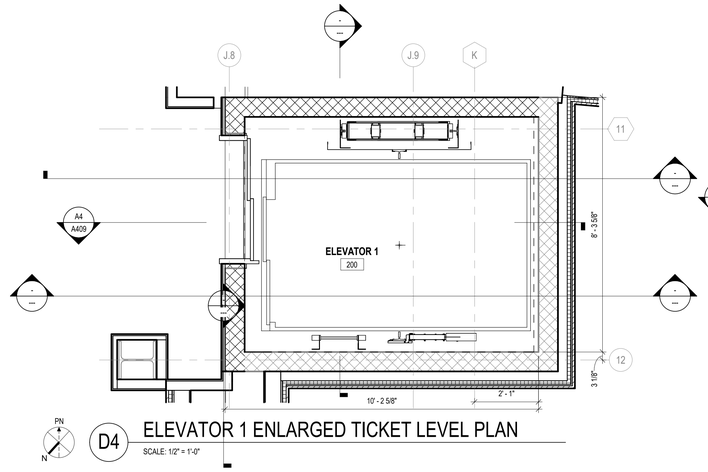
SCALE: 1/2" = 1'-0"



PN

C4 ELEVATOR 2 ENLARGED TICKET LEVEL PLAN

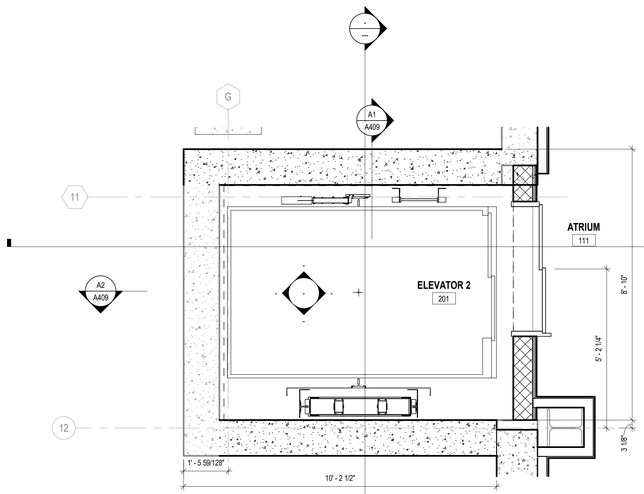
SCALE: 1/2" = 1'-0"



PN

D4 ELEVATOR 1 ENLARGED TICKET LEVEL PLAN

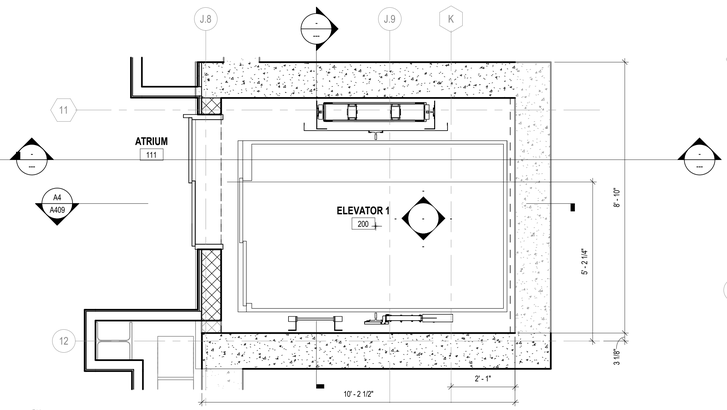
SCALE: 1/2" = 1'-0"



PN

A1 ELEVATOR 2 ENLARGED RAMP LEVEL PLAN

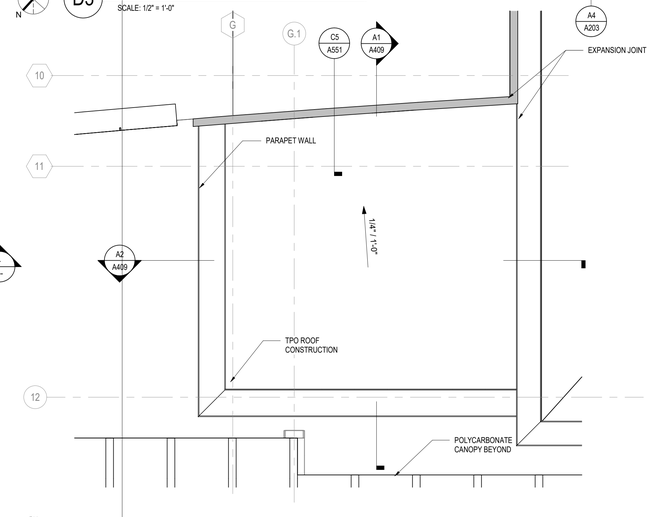
SCALE: 1/2" = 1'-0"



PN

A3 ELEVATOR 1 ENLARGED RAMP LEVEL PLAN

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



PN

D1 ELEVATOR 2 ROOF PLAN

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

2 0 2 4

SCALE: 1/2" = 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:	SG
DRAWN BY:	DC
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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SEAL:

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SHEET TITLE:
ENLARGED ELEVATOR PLANS AND INTERIOR ELEVATIONS

SHEET ID:
A408

PROJECT STATUS:
100% BID SET

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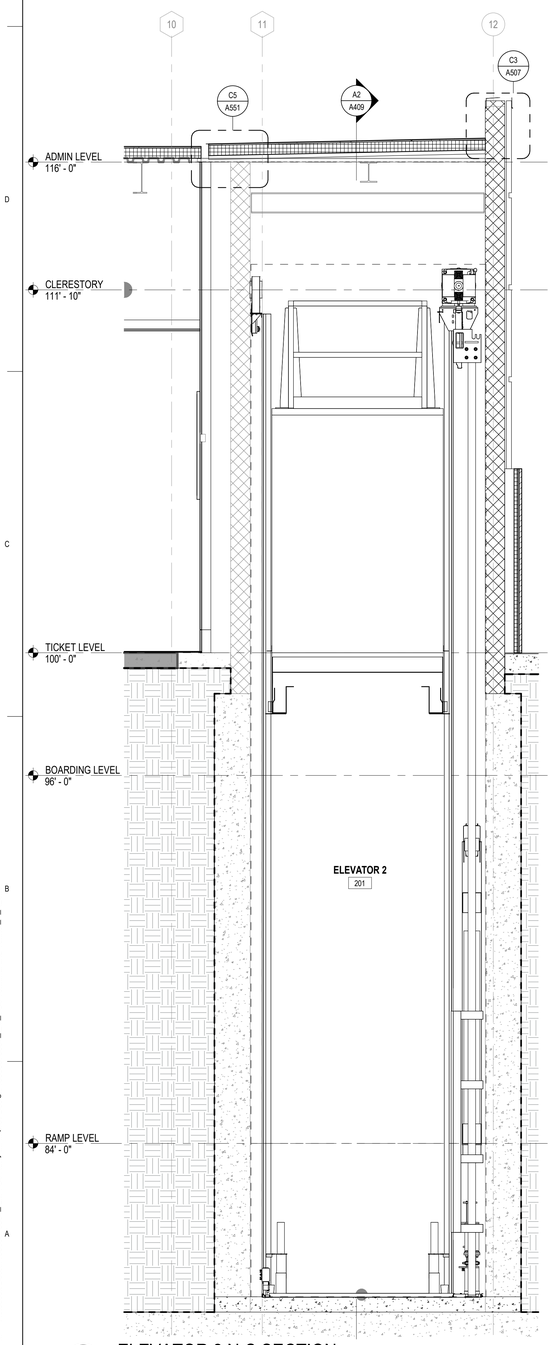
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GENERAL NOTES

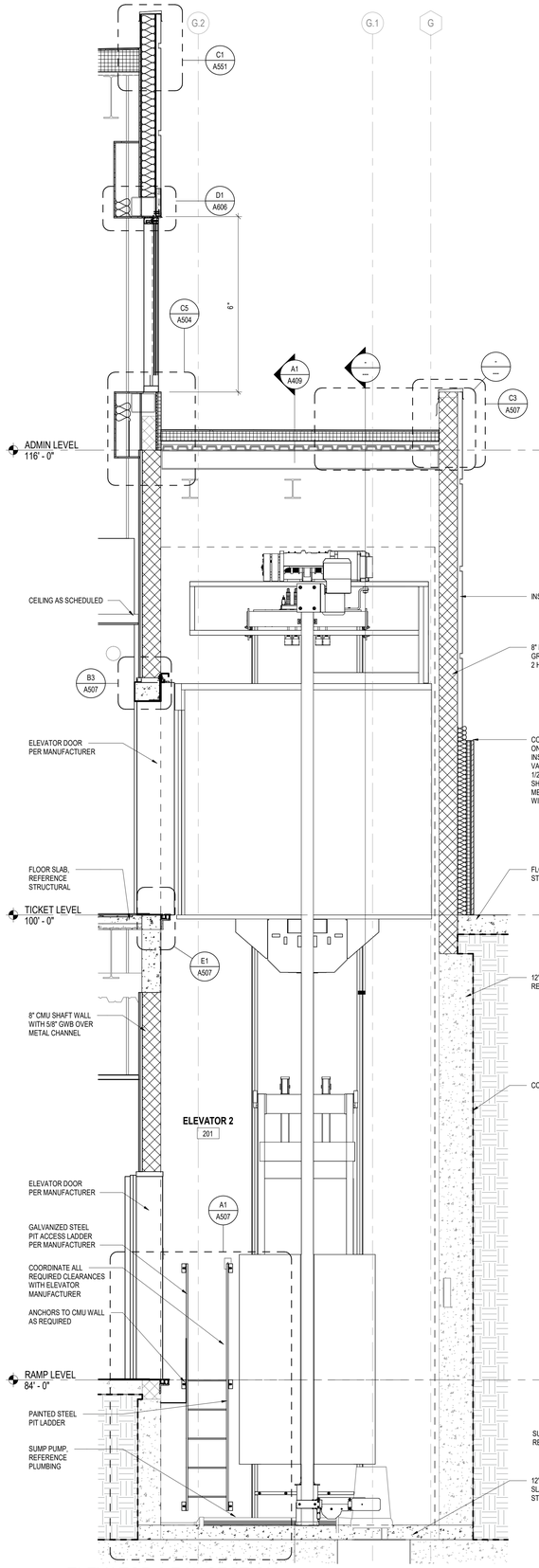
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5. PROTECT THE TRANSITION STRIPS WHEN GRINDING TERRAZZO TO POLISH FINISH WITH PROTECTION TAPE.
6. ALL EXPOSED PRIMARY STEEL TO BE 2 HR FIRE RATED.

BASIS OF DESIGN

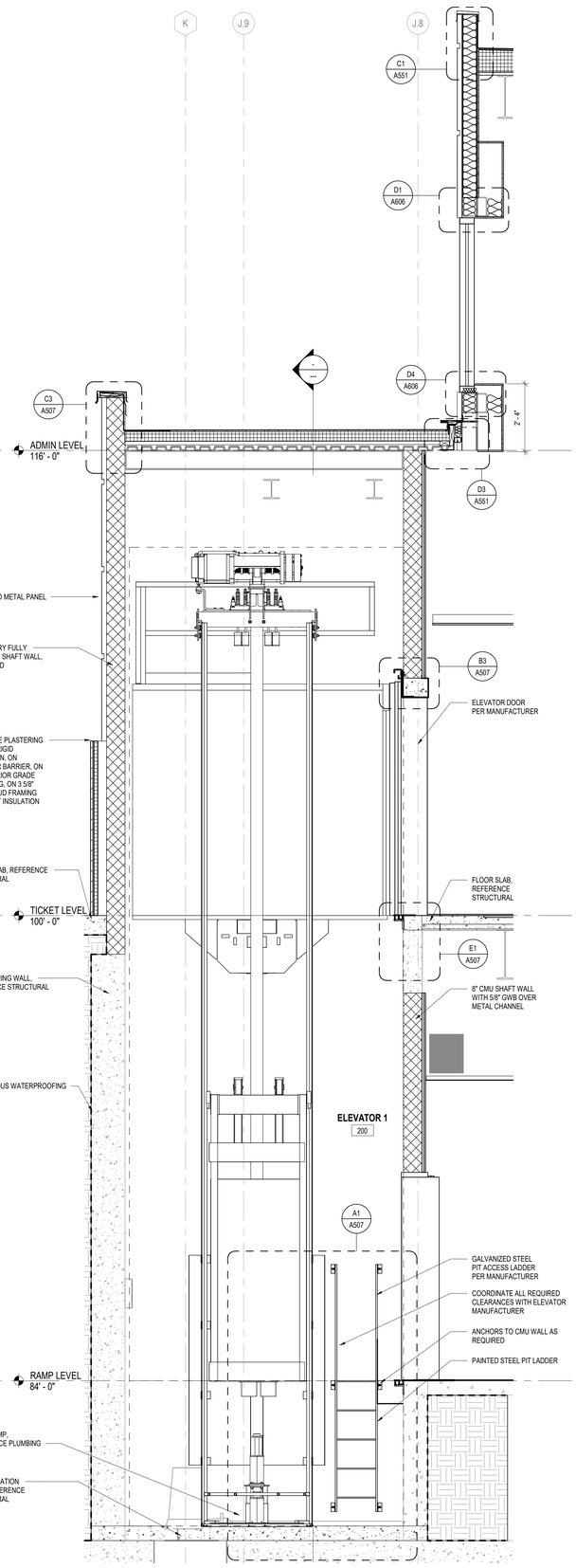
1. SCHINDLER 3300 XL MRL TRACTION ELEVATOR.
2. SCHINDLER 9300 ADVANCED EDITION TYPE 10 30"-M ESCALATOR.



A1 ELEVATOR 2 N-S SECTION
SCALE: 1/2" = 1'-0"



A2 ELEVATOR 2 E-W SECTION
SCALE: 1/2" = 1'-0"



A4 ELEVATOR 1 E-W SECTION
SCALE: 1/2" = 1'-0"

2 0 2 4
SCALE: 1/2" = 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

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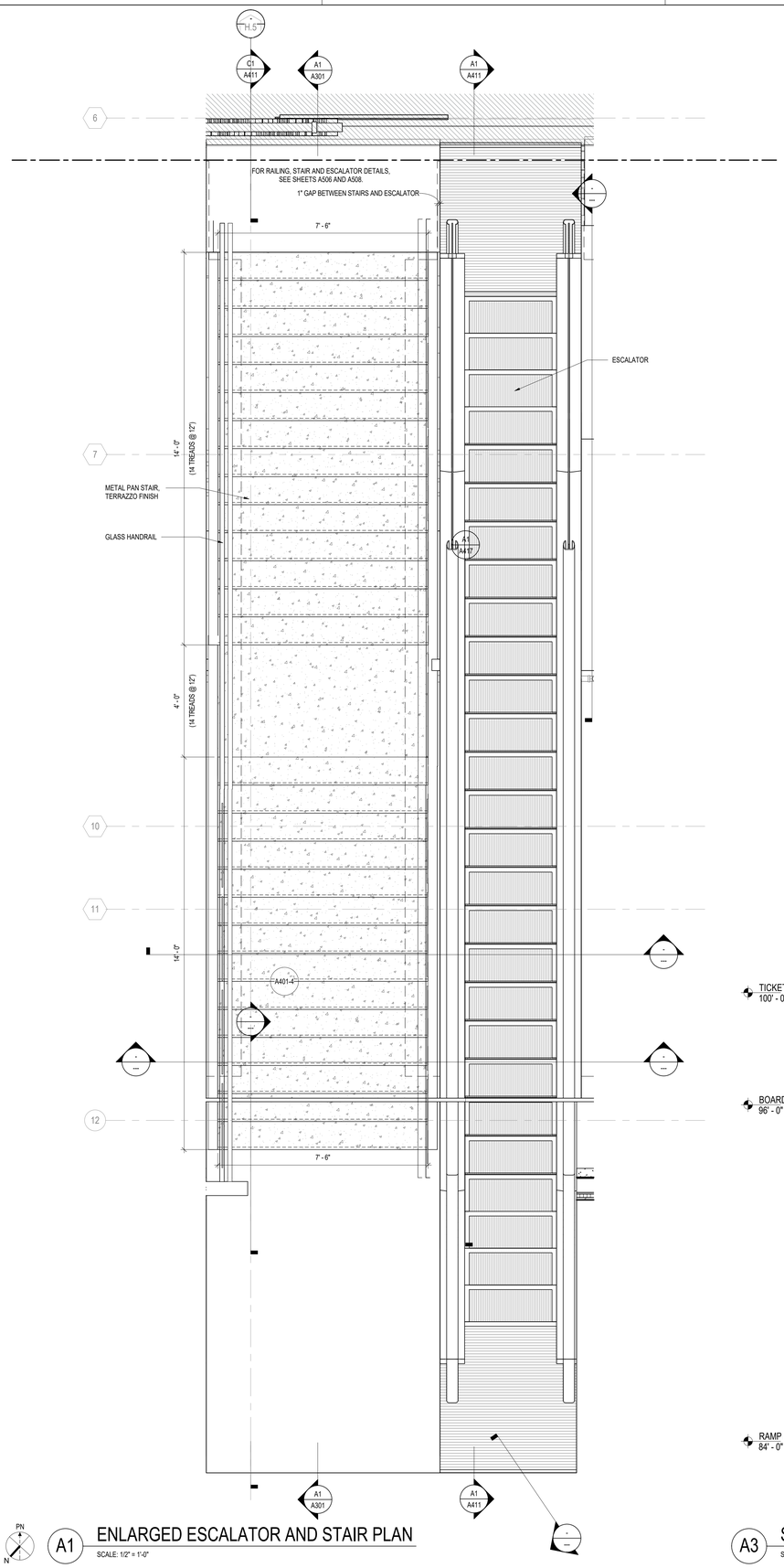
PROJECT NUMBER:
1003-0070-004
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SEAL:
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SHEET TITLE:
ENLARGED ELEVATOR SECTIONS

SHEET ID:
A409

PROJECT STATUS:
100% BID SET

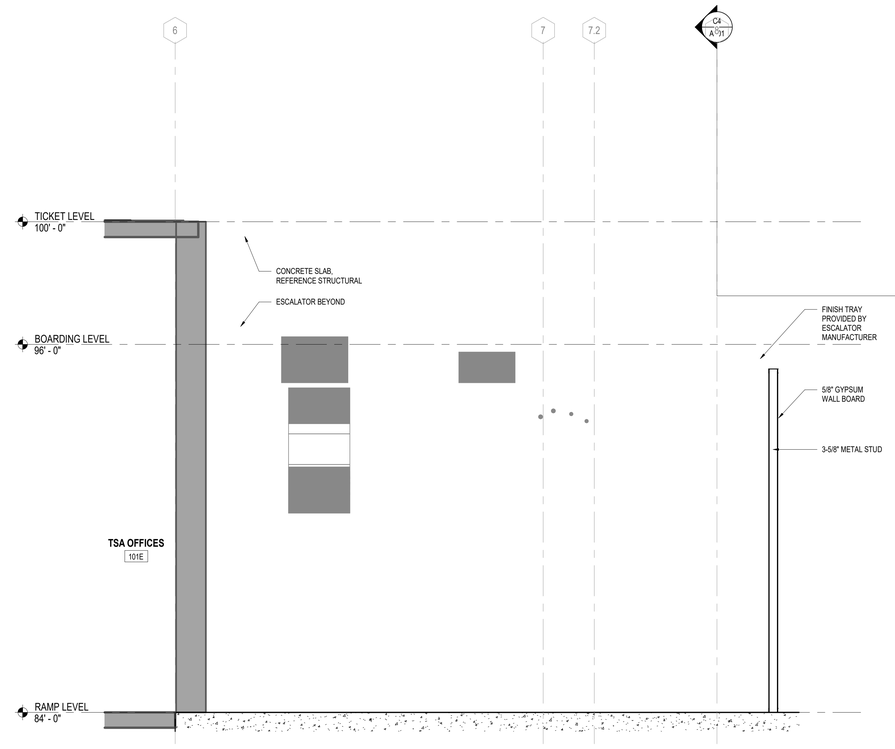


PN

N

A1 ENLARGED ESCALATOR AND STAIR PLAN

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



A3 SOFFIT CONDITION AT ESCALATOR SECTION

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

2 0 2 4

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

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BASIS OF DESIGN

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2. SCHINDLER 9300 ADVANCED EDITION TYPE 10 30"-M ESCALATOR.

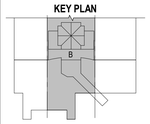
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ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



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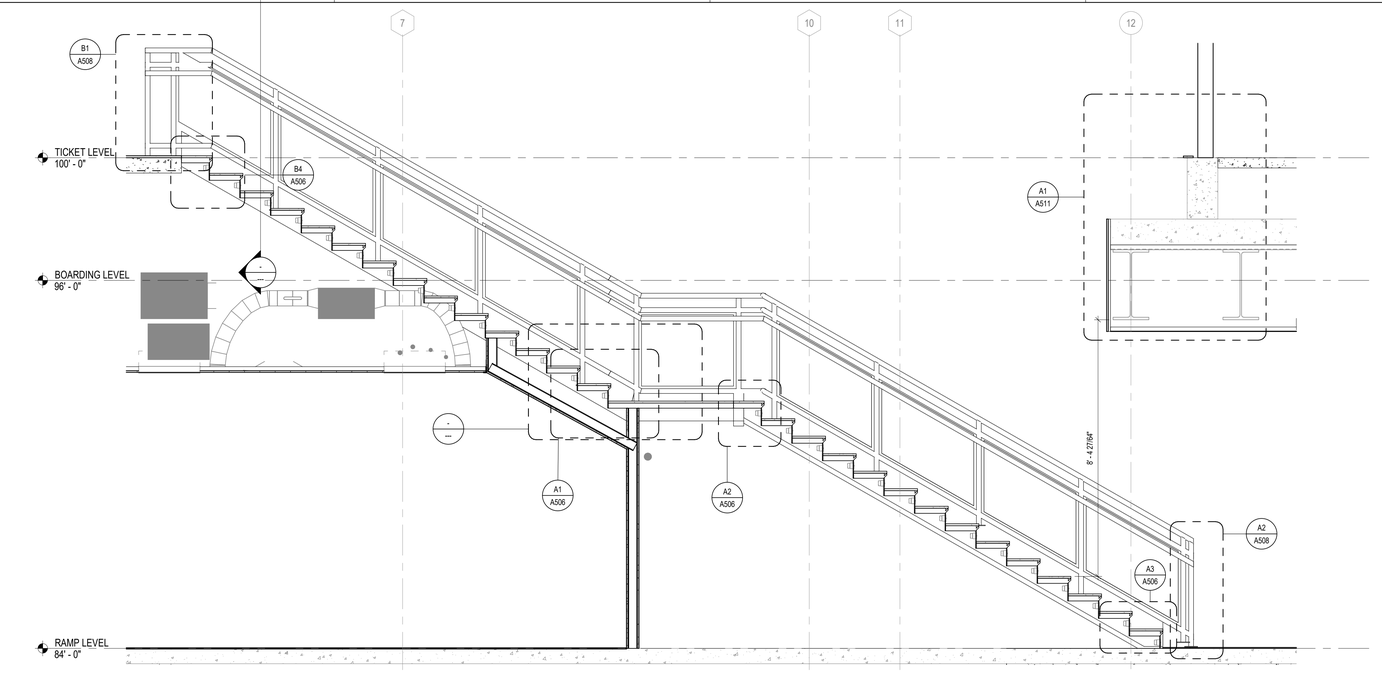
SHEET TITLE:
ENLARGED ESCALATOR AND STAIR PLAN AND SECTION

SHEET ID:
A410

PROJECT STATUS:
100% BID SET

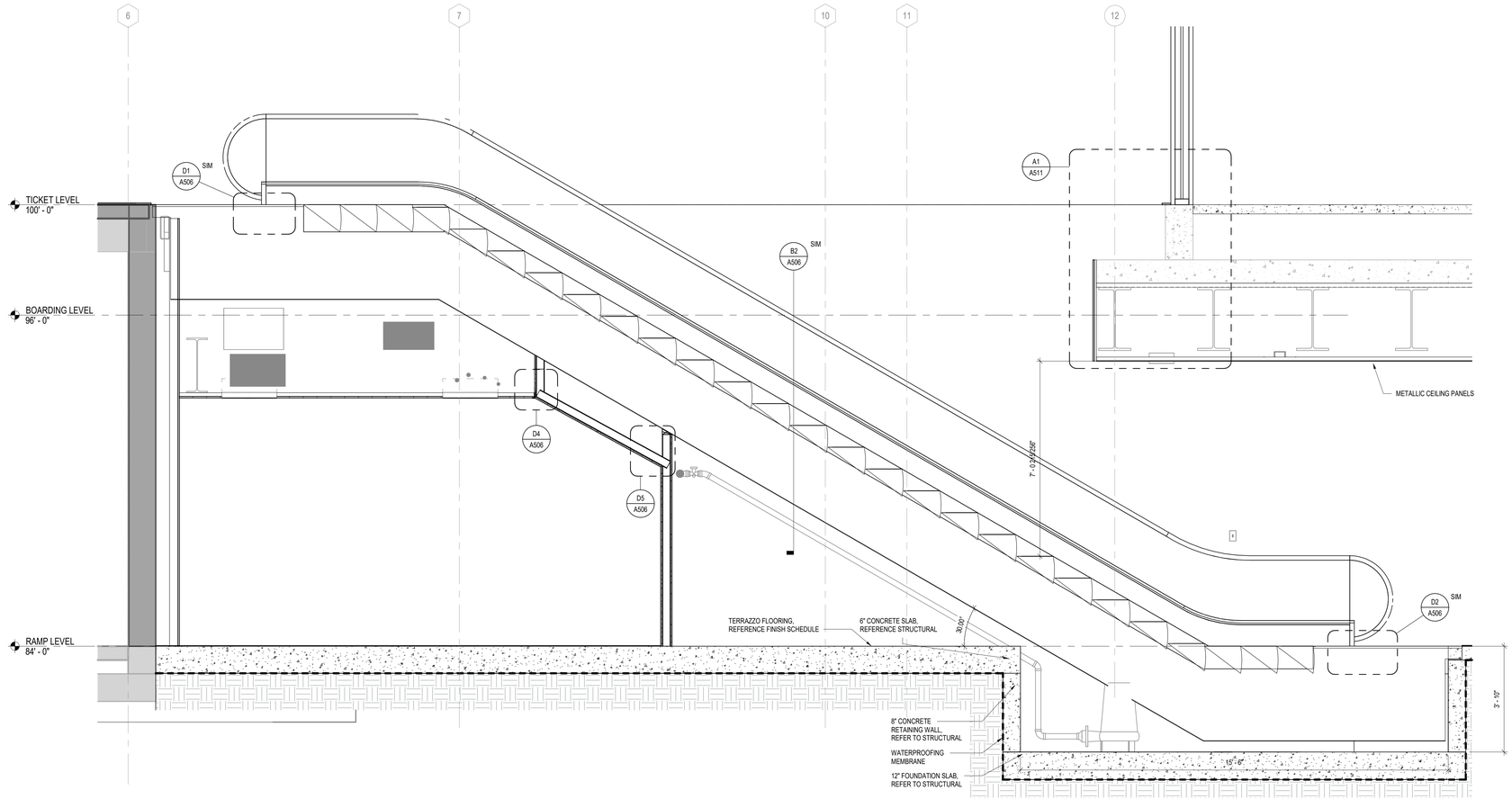
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C1 STAIR SECTION

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



A1 ESCALATOR SECTION

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

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BASIS OF DESIGN

1. SCHINDLER 3300 XL MRL TRACTION ELEVATOR.
2. SCHINDLER 9300 ADVANCED EDITION TYPE 10 30°-M ESCALATOR.

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ILM

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SHEET TITLE:

ENLARGED ESCALATOR AND STAIR SECTIONS

SHEET ID:

A411

PROJECT STATUS:
100% BID SET

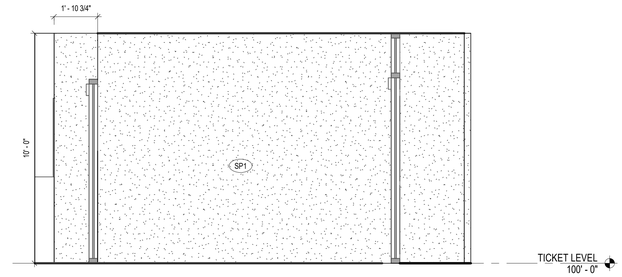
2 0 2 4
SCALE: 1/2" = 1'-0"

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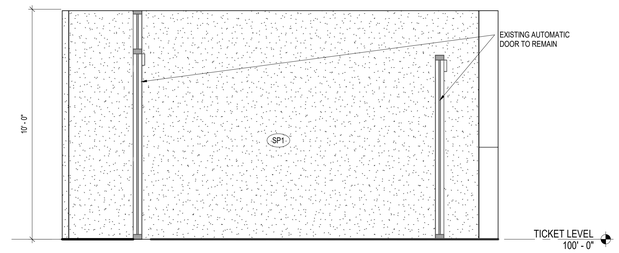
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A3 INTERIOR ELEVATION @ EXIST. ENTRANCES

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



A5 INTERIOR ELEVATION @ EXIST. ENTRANCES 2

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

2 0 2 4 6

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

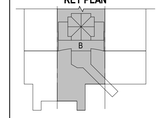
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KEY PLAN



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DESIGNED BY:	FG

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1003-0070-004

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SHEET TITLE:
TERMINAL ENTRANCE INTERIOR ELEVATIONS

SHEET ID:
A412

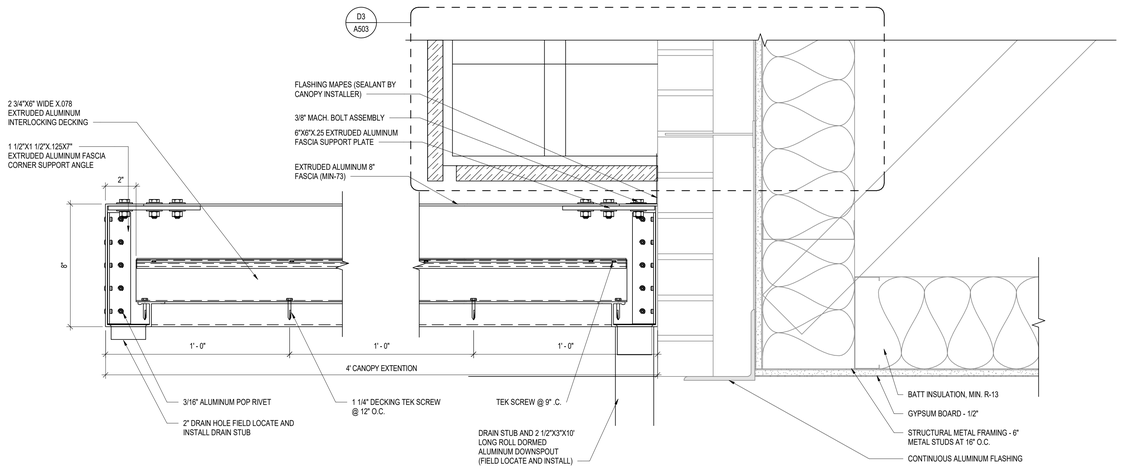
PROJECT STATUS:
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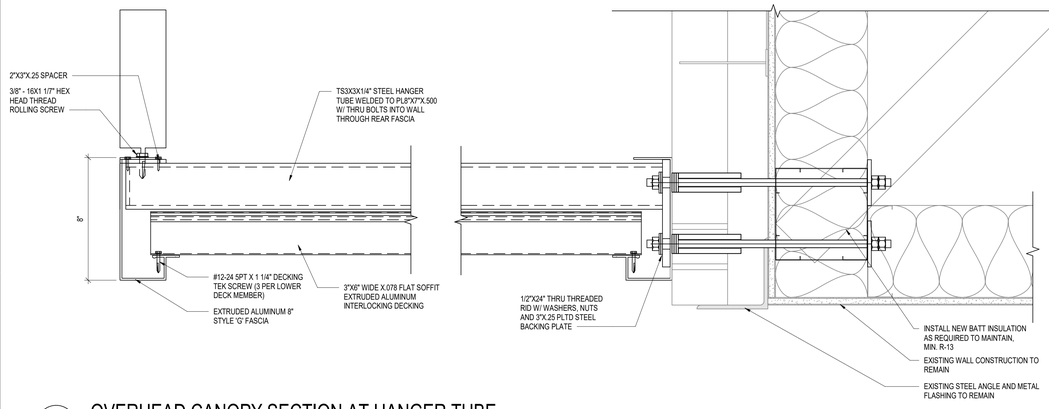
GENERAL NOTES

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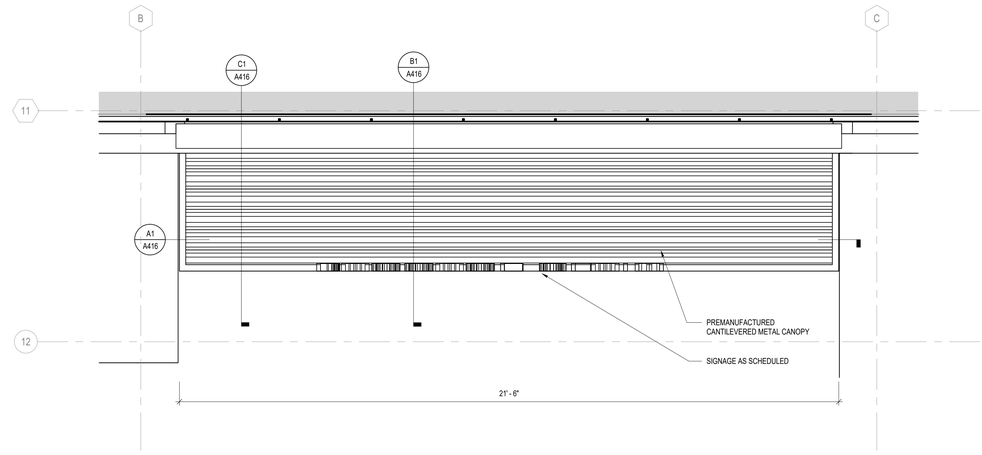
C1 OVERHEAD CANOPY SECTION AT END

SCALE: 3" = 1'-0"



B1 OVERHEAD CANOPY SECTION AT HANGER TUBE

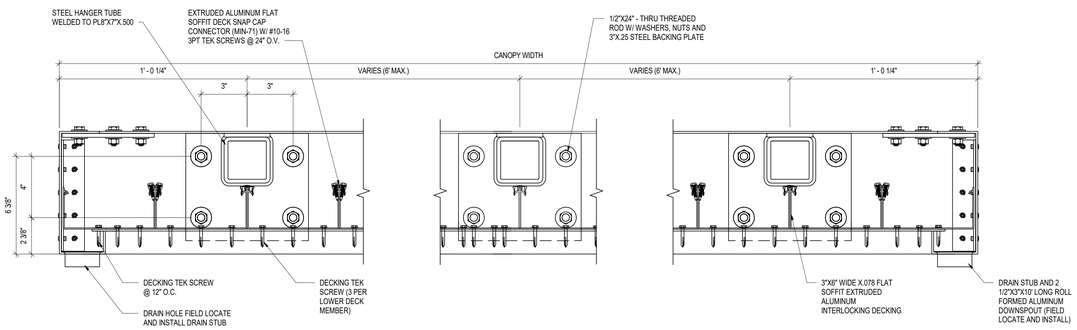
SCALE: 3" = 1'-0"





B4 ENLARGED CANOPY ROOF PLAN

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



A1 OVERHEAD CANOPY TRANSVERSE SECTION

SCALE: 3" = 1'-0"

0 1

SCALE: 3" = 1'-0"

2 0 2 4

SCALE: 1/2" = 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:	SG
DRAWN BY:	SS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:
ENTRANCE CANOPY ENLARGED ROOF PLANS AND SECTIONS

SHEET ID:
A416

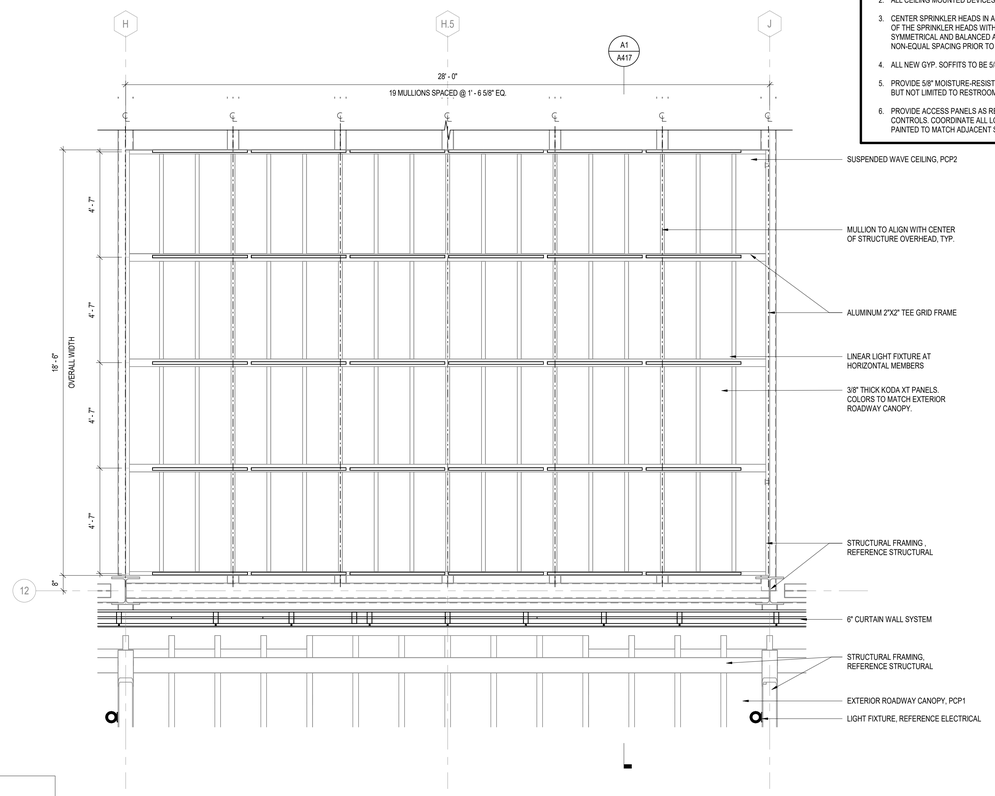
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A1 SUSPENDED WAVE CEILING SECTION

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



A3 ENLARGED SUSPENDED WAVE CEILING REFLECTED CEILING PLAN

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

PN
N

C4
A301

2 0 2 4 6

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.

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ILM

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REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY:	TP
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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SHEET TITLE:
ENLARGED SUSPENDED WAVE CEILING PLANS AND SECTIONS

SHEET ID:
A417

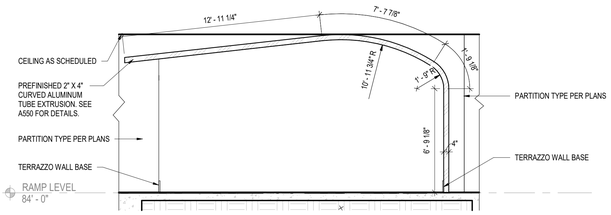
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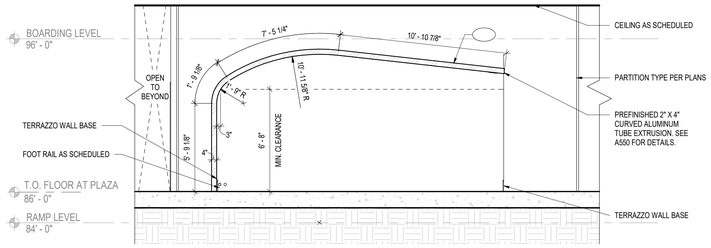
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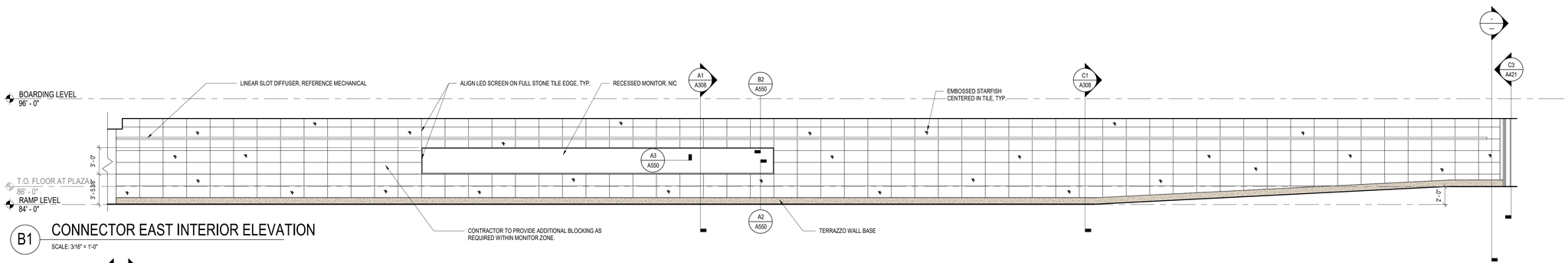
C1 CONNECTOR PORTAL AT TERMINAL ELEVATION

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



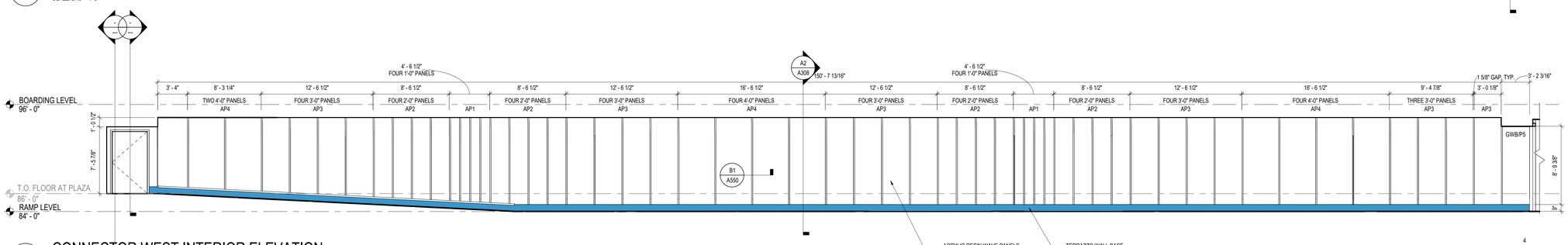
C3 CONNECTOR PORTAL AT GARAGE ELEVATION

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



B1 CONNECTOR EAST INTERIOR ELEVATION

SCALE: 3/16" = 1'-0"



A1 CONNECTOR WEST INTERIOR ELEVATION

SCALE: 3/16" = 1'-0"

4 0 4 8

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

4 0 4 8 12

SCALE: 3/16" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

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

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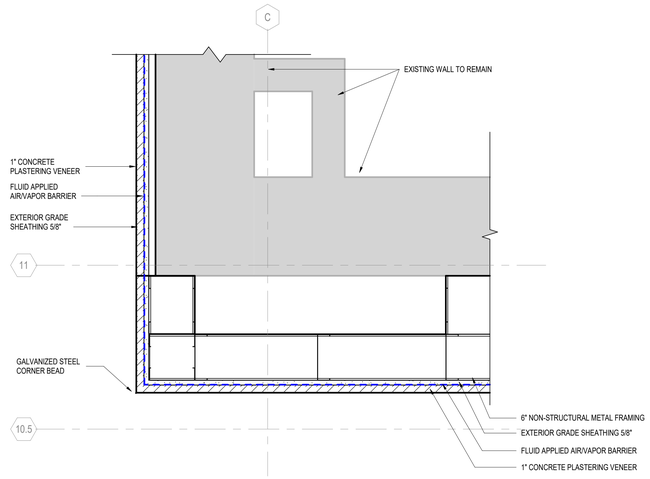
SHEET TITLE:
CONNECTOR INTERIOR ELEVATIONS

SHEET ID:
A421

PROJECT STATUS:
100% BID SET

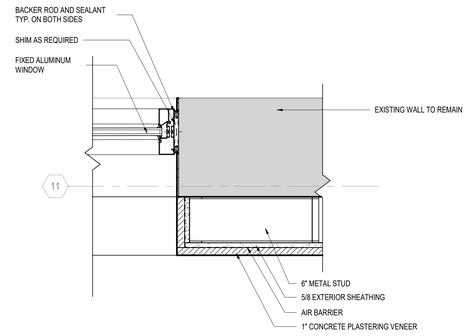
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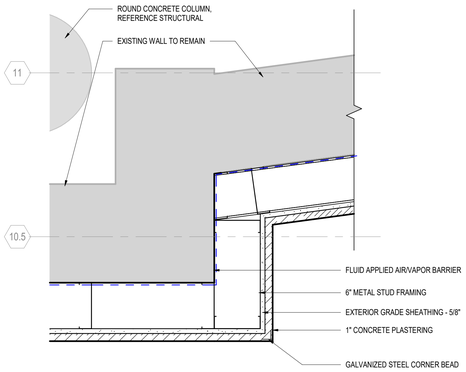
D1 TICKET LEVEL FLOOR PLAN ENTRY CORNER DETAIL

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



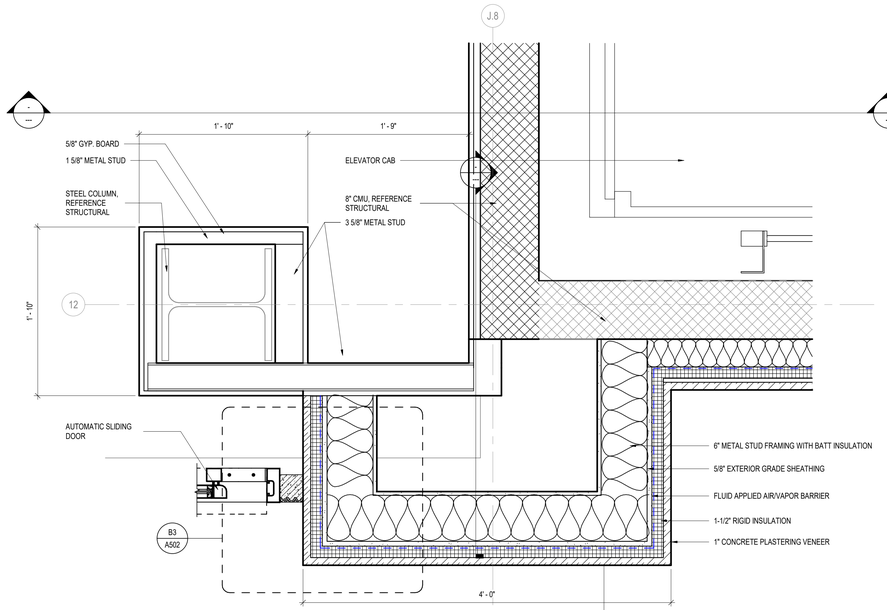
D3 TICKET LEVEL FLOOR PLAN ENTRY WALL DETAIL

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



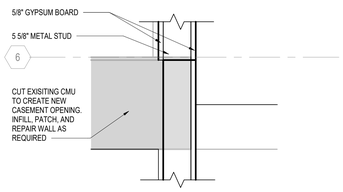
B1 TICKET LEVEL FLOOR PLAN COLUMN DETAIL

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



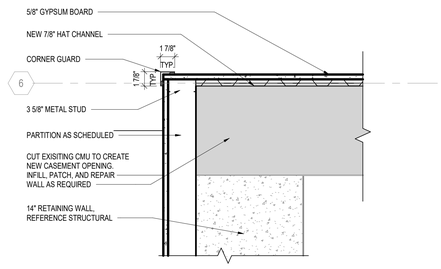
B2 TICKET LEVEL VESTIBULE CORNER DETAIL

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



A1 OPENING AT EXISTING RAMP - ADJACENT

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



A2 OPENING AT EXISTING RAMP - CORNER

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

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ILM

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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:	CD
DESIGNED BY:	FG
PROJECT NUMBER:	

1003-0070-004

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SHEET TITLE:
PLAN DETAILS

SHEET ID:
A501

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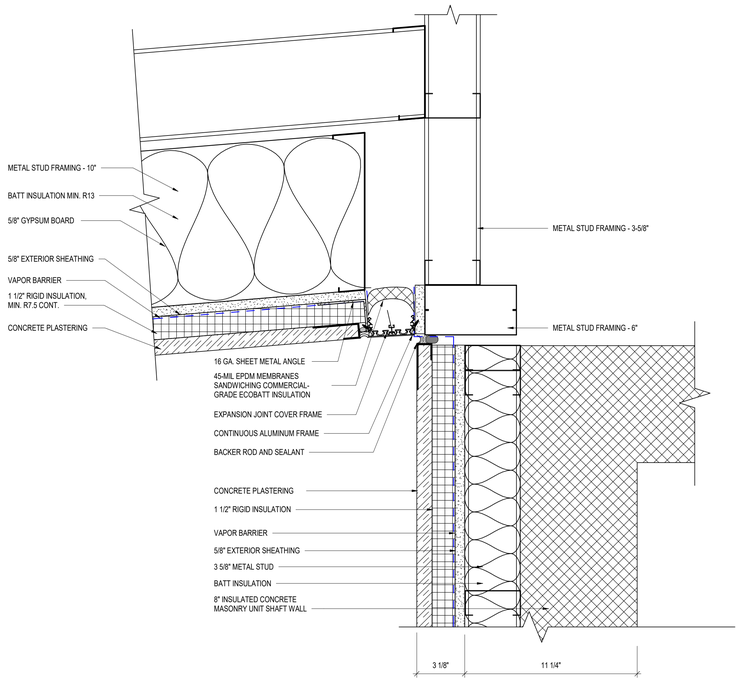
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SCALE: 1 1/2" = 1'-0"

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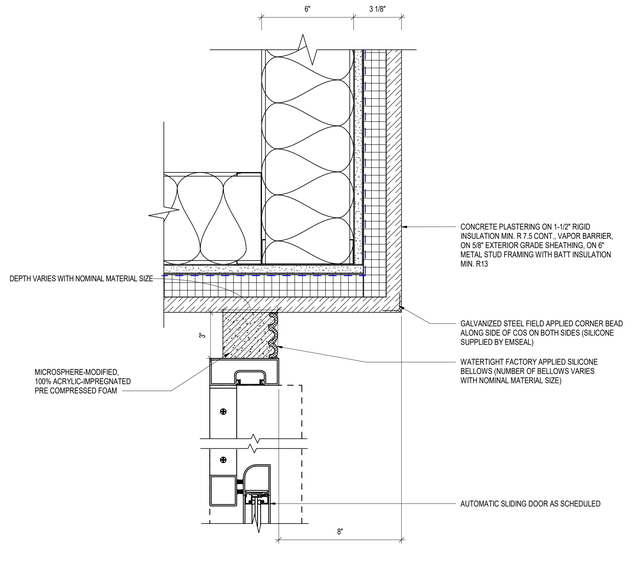
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GENERAL NOTES

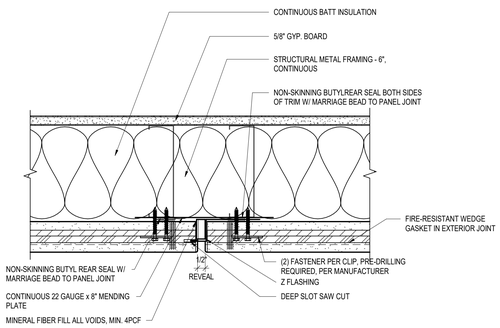
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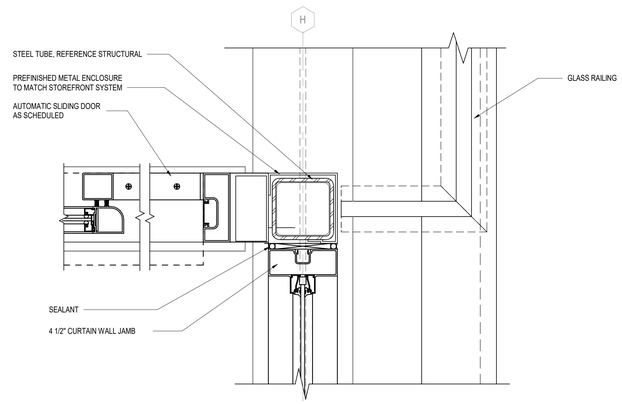
B1 EXPANSION JOINT - EXTERIOR CORNER DETAIL
SCALE: 3" = 1'-0"



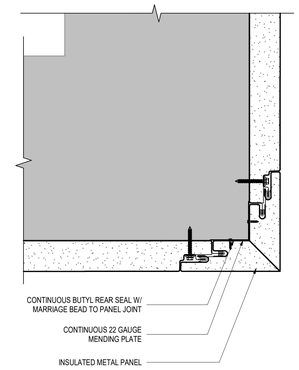
B3 EXPANSION JOINT @ EXT. AUTOMATIC DOOR JAMB
SCALE: 3" = 1'-0"



A1 METAL PANEL TO PANEL (VERTICAL)
SCALE: 3" = 1'-0"



A3 INTERIOR AUTOMATIC DOOR JAMB @ GLASS RAIL
SCALE: 3" = 1'-0"



A5 METAL PANEL CORNER DETAIL
SCALE: 3" = 1'-0"

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

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SHEET TITLE:
PLAN DETAILS

SHEET ID:
A502

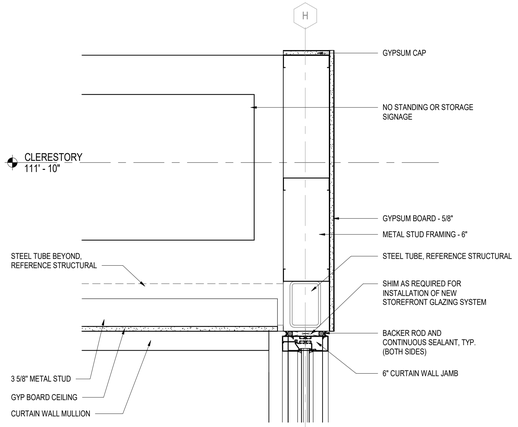
PROJECT STATUS:
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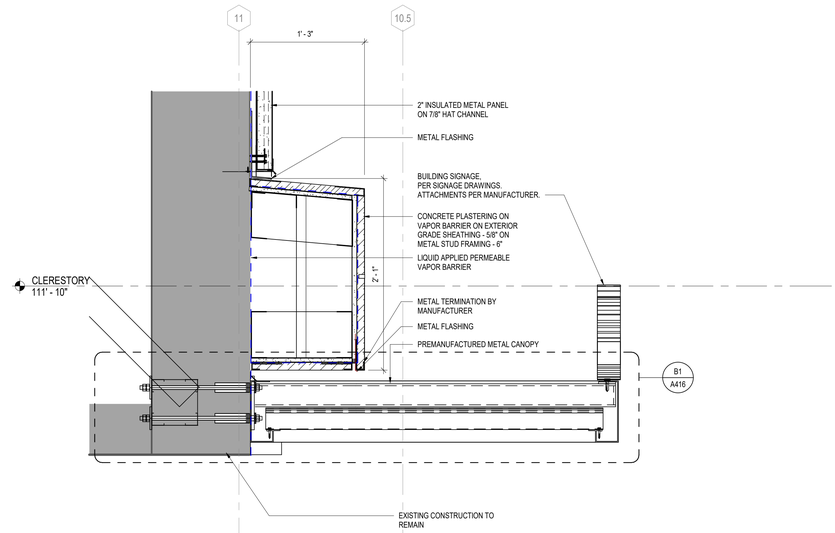
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GENERAL NOTES

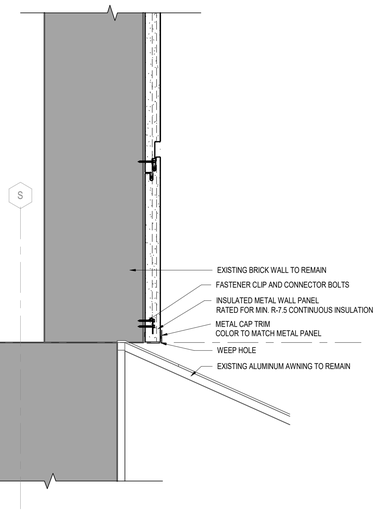
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D1 STOREFRONT HEAD DETAIL
SCALE: 1 1/2" = 1'-0"

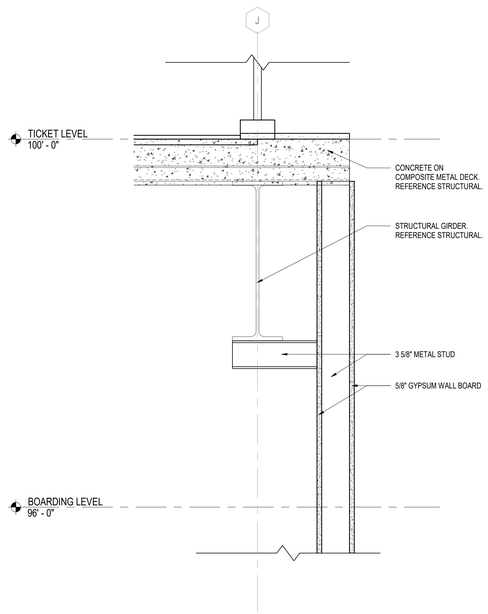


D3 WALL SECTION AT EXISTING ENTRANCES
SCALE: 1 1/2" = 1'-0"

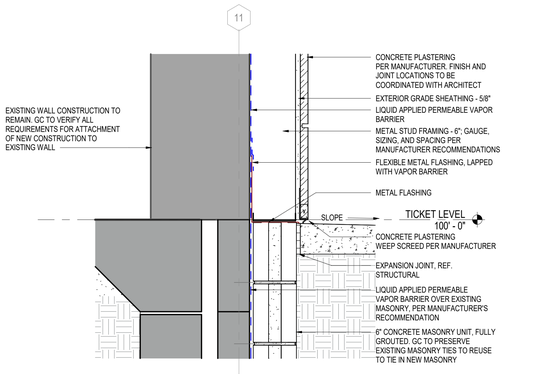


B5 METAL PANEL AT EXISTING AWNING DETAIL
SCALE: 1 1/2" = 1'-0"

B3 CONCRETE PLASTERING - SILL AT EXISTING WALL
SCALE: 1 1/2" = 1'-0"



A1 STOREFRONT SILL DETAIL
SCALE: 1 1/2" = 1'-0"



A3 CONCRETE PLASTERING - BASE AT EXISTING WALL
SCALE: 1 1/2" = 1'-0"

1 0 1
SCALE: 1 1/2"= 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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SEAL:
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SHEET TITLE:
SECTION DETAILS

SHEET ID:
A503

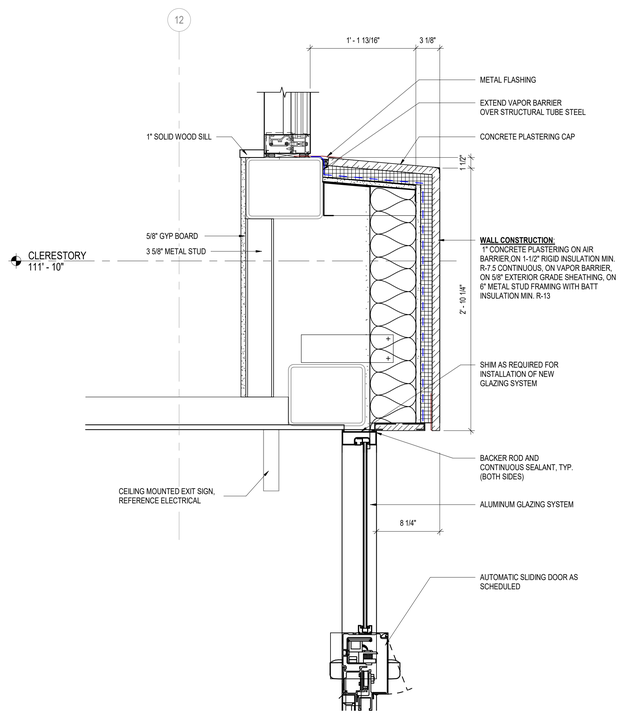
PROJECT STATUS:
100% BID SET

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3/14/2025 8:27:13 PM Autodesk Docs://1003007004_ILM TO4 Rdwy Inf Improv Design/1003007004_ILM_TO4 Terminal and Tunnel_A_R24.rvt

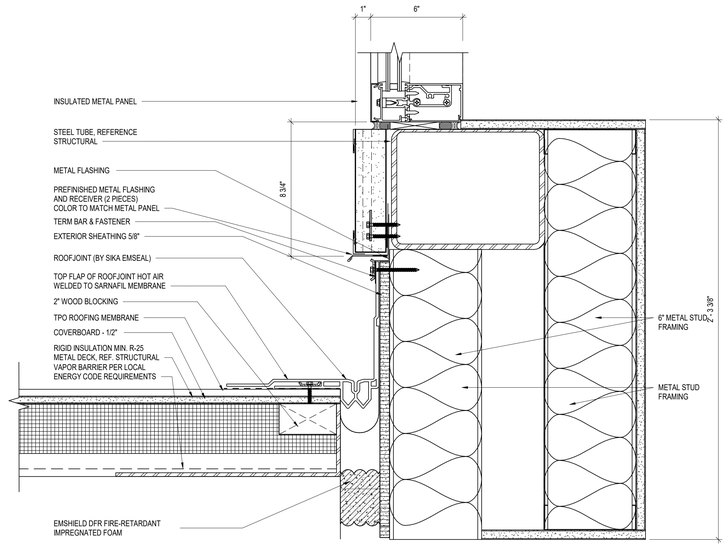
GENERAL NOTES

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6. ALL EXPOSED PRIMARY STEEL TO BE 2 HR FIRE RATED.



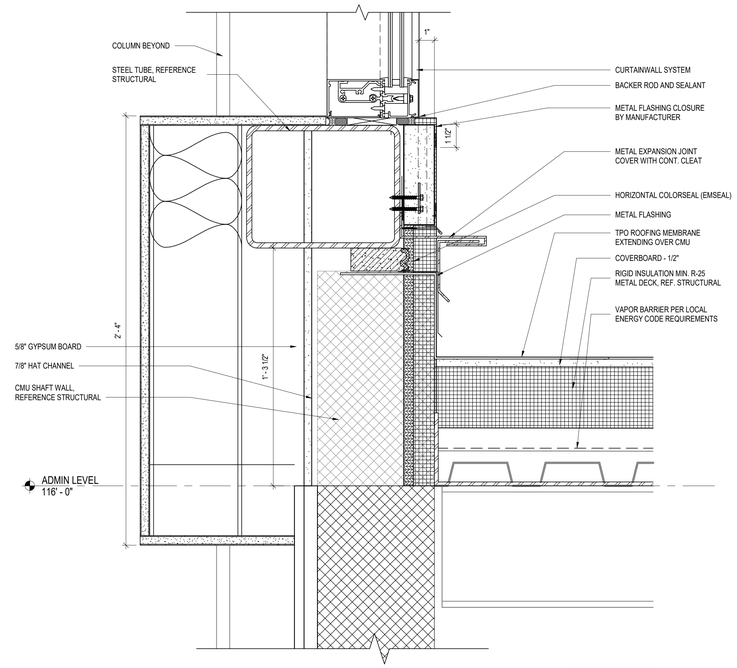
C1 FRONT ENTRY VESTIBULE DETAIL

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



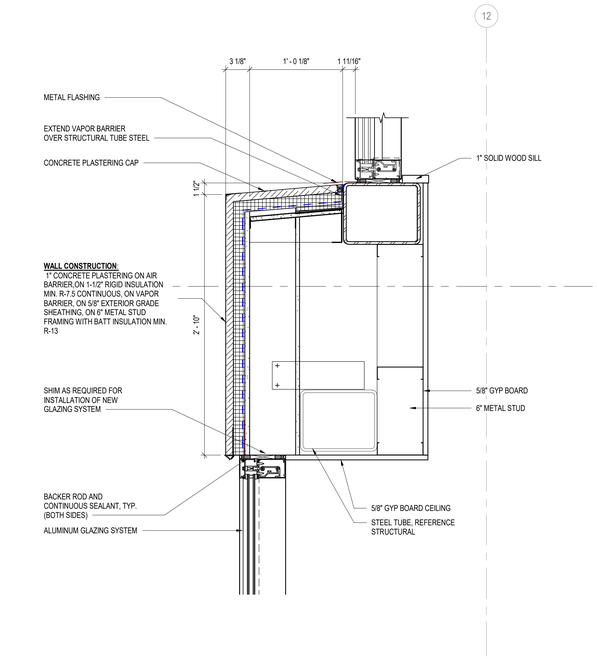
C3 ENLARGED EXPANSION JOINT DETAIL AT BASE OF METAL PANEL

SCALE: 3" = 1'-0"



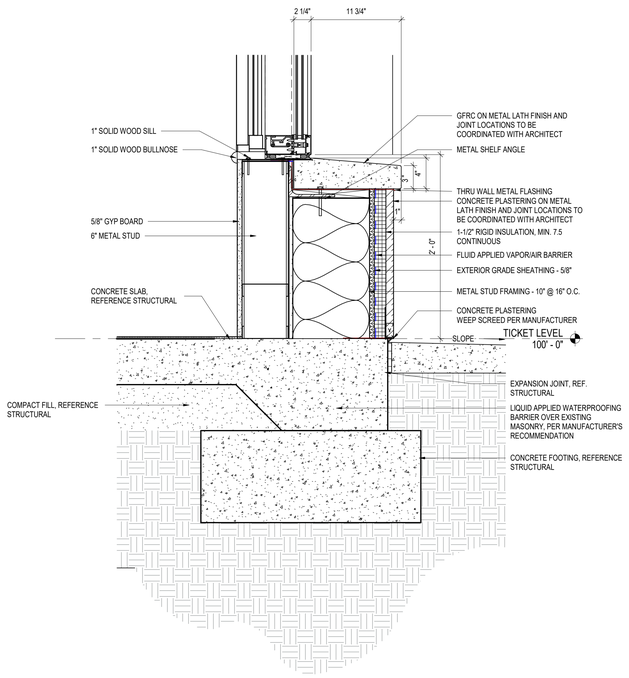
C5 HORIZONTAL EXPANSION JOINT AT ROOF

SCALE: 3" = 1'-0"



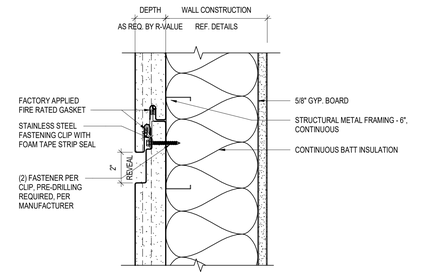
A1 SECTION DETAIL AT METAL PANEL / CURTAIN WALL

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



A3 CONCRETE PLASTERING - SILL - AT NEW ENTRY

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



A4 METAL PANEL TO PANEL (HORIZONTAL)

SCALE: 3" = 1'-0"

0 1

SCALE: 3" = 1'-0"

1 0 1

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

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REVISIONS

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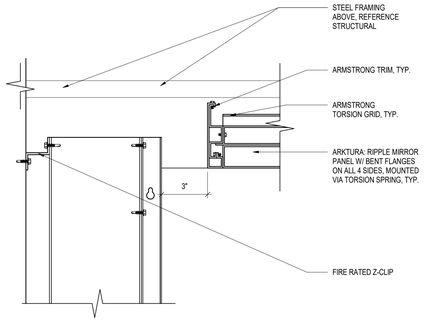
SHEET TITLE:
EXTERIOR SECTION DETAILS

SHEET ID:
A504

PROJECT STATUS:
100% BID SET

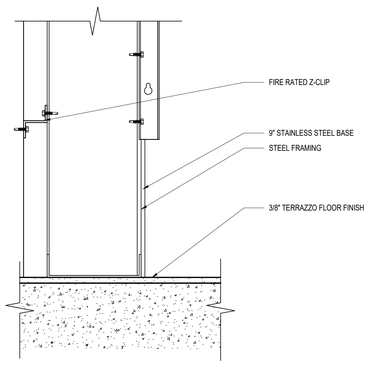
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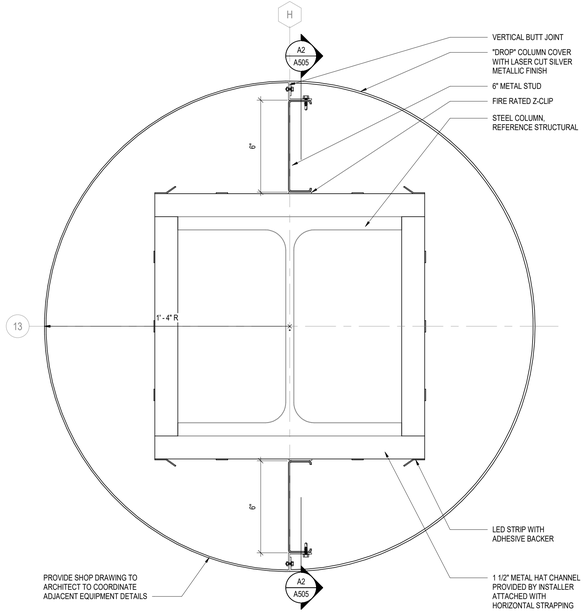
D1 COLUMN CEILING DETAIL

SCALE: 3" = 1'-0"



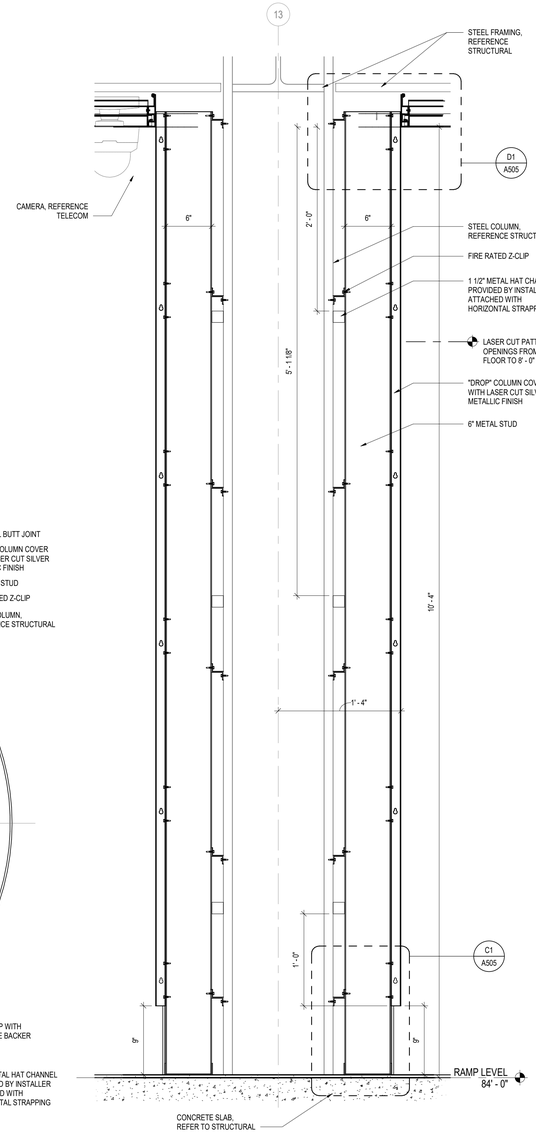
C1 COLUMN FLOOR DETAIL

SCALE: 3" = 1'-0"



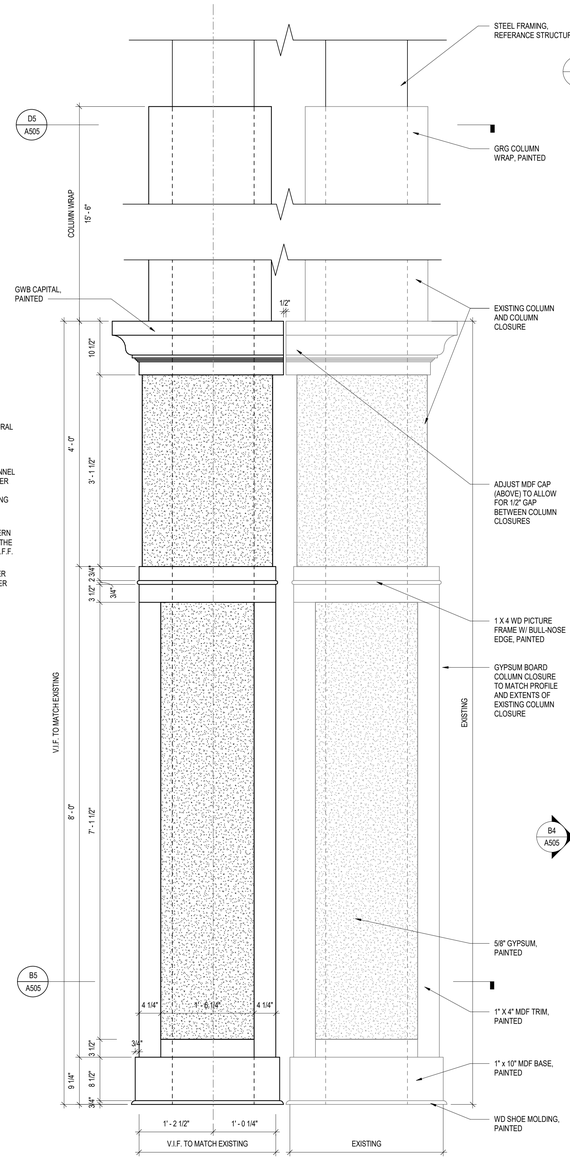
A1 COLUMN WRAP PLAN DETAIL

SCALE: 3" = 1'-0"



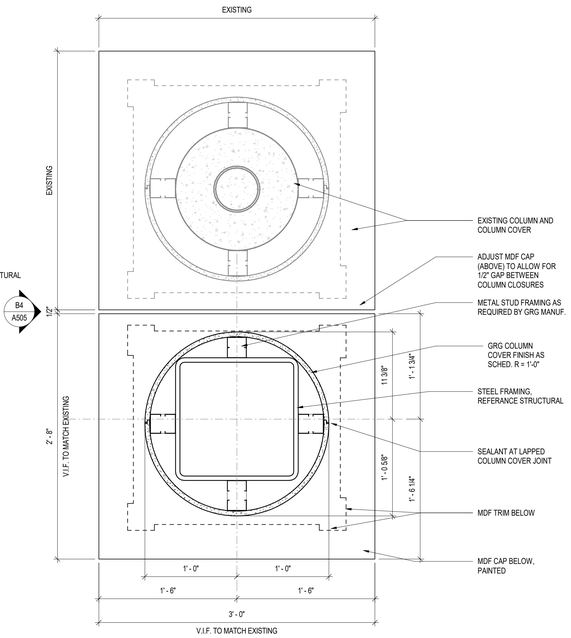
A2 A505 COLUMN WRAP SECTION DETAIL

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



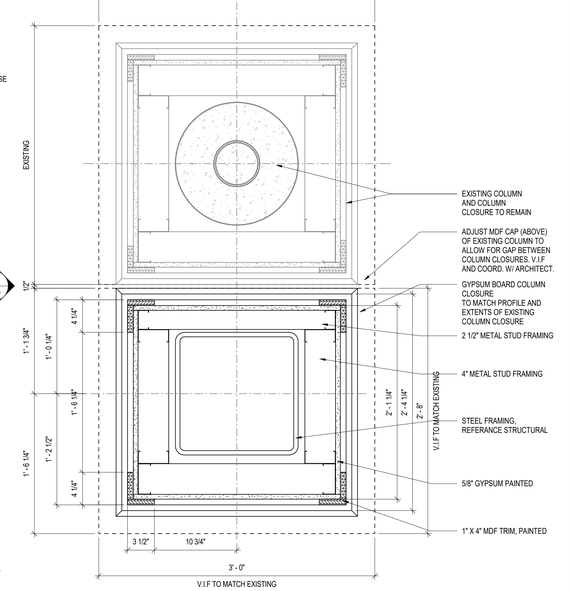
B4 TICKET LEVEL COLUMN ELEVATION

SCALE: 1" = 1'-0"



D5 COLUMN COVER PLAN DETAIL @ 14'

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



B5 COLUMN CLOSURE PLAN DETAIL @ 2'

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

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

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

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

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ILM

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PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

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

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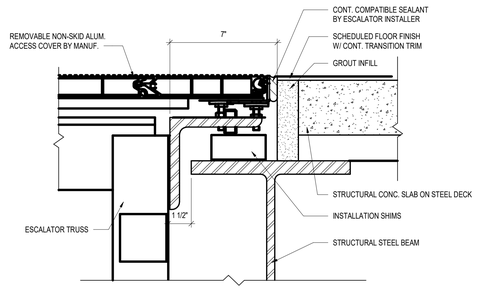
SHEET TITLE:
COLUMN DETAILS

SHEET ID:
A505

PROJECT STATUS:
100% BID SET

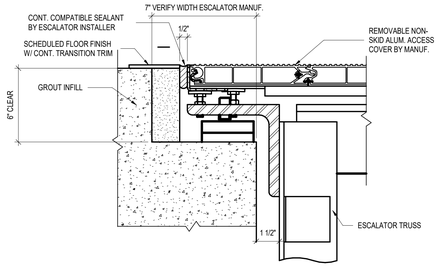
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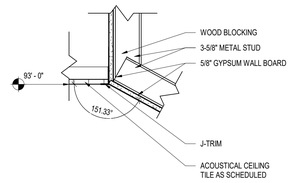
D1 ESCALATOR TOP CONNECTION

SCALE: 3" = 1'-0"



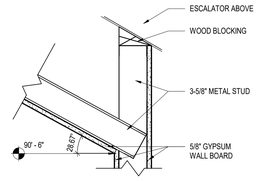
D2 ESCALATOR BOTTOM CONNECTION

SCALE: 3" = 1'-0"



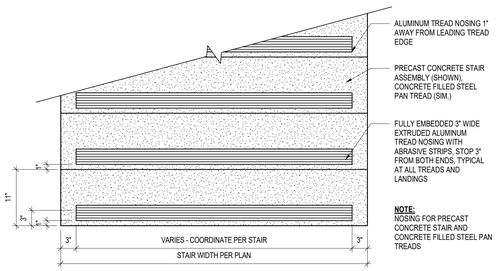
D4 CEILING CONNECTION DETAIL

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



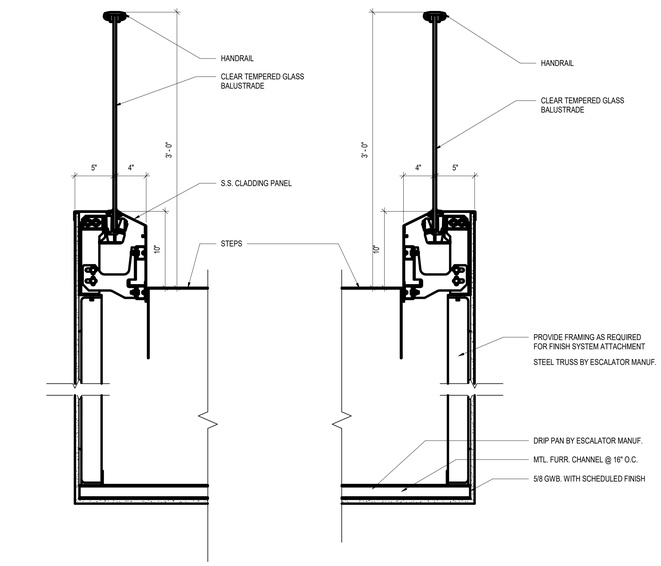
D5 WALL HEAD AT ESCALATOR DETAIL

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



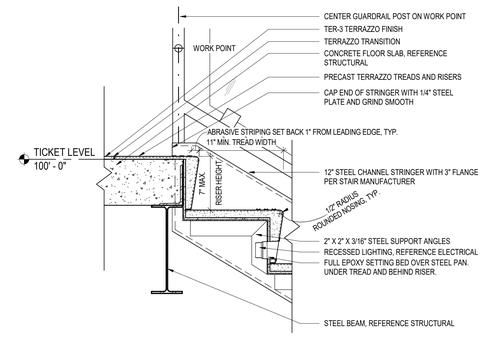
B1 CONCRETE STAIR NOSING PLAN DETAIL

SCALE: 1" = 1'-0"



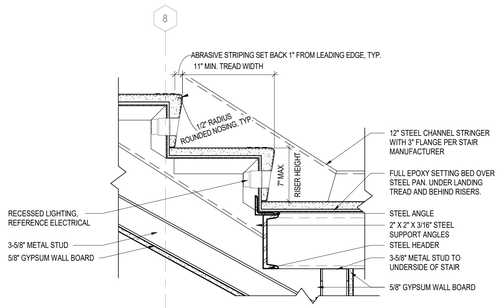
B2 GUARDRAIL DETAIL

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



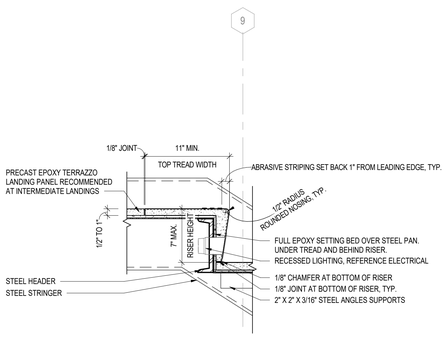
B4 UPPER STAIR TO SLAB CONNECTION DETAIL

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



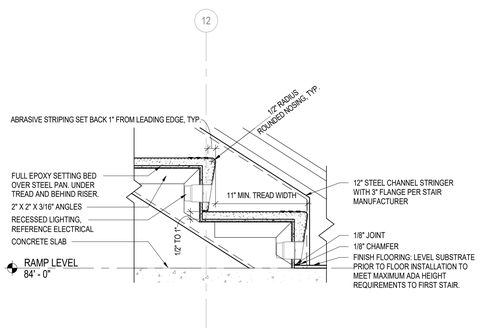
A1 UPPER STAIR TO LANDING CONNECTION DETAIL

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



A2 LOWER STAIR TO LANDING CONNECTION DETAIL

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



A3 LOWER STAIR TO SLAB CONNECTION DETAIL

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

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BASIS OF DESIGN

1. SCHINDLER 3300 XL MRL TRACTION ELEVATOR.
2. SCHINDLER 9300 ADVANCED EDITION TYPE 10 30"-M ESCALATOR.

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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:	DC
DESIGNED BY:	FG
PROJECT NUMBER:	

1003-0070-004

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SHEET TITLE:
ESCALATOR AND STAIR DETAILS

SHEET ID:
A506

PROJECT STATUS:
100% BID SET

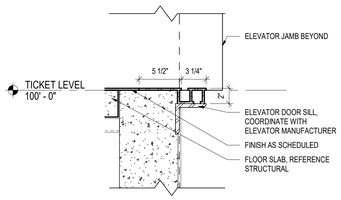
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SCALE: 1" = 1'-0"

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

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

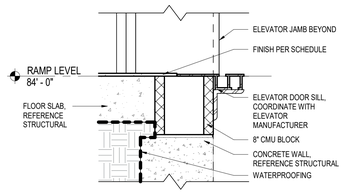
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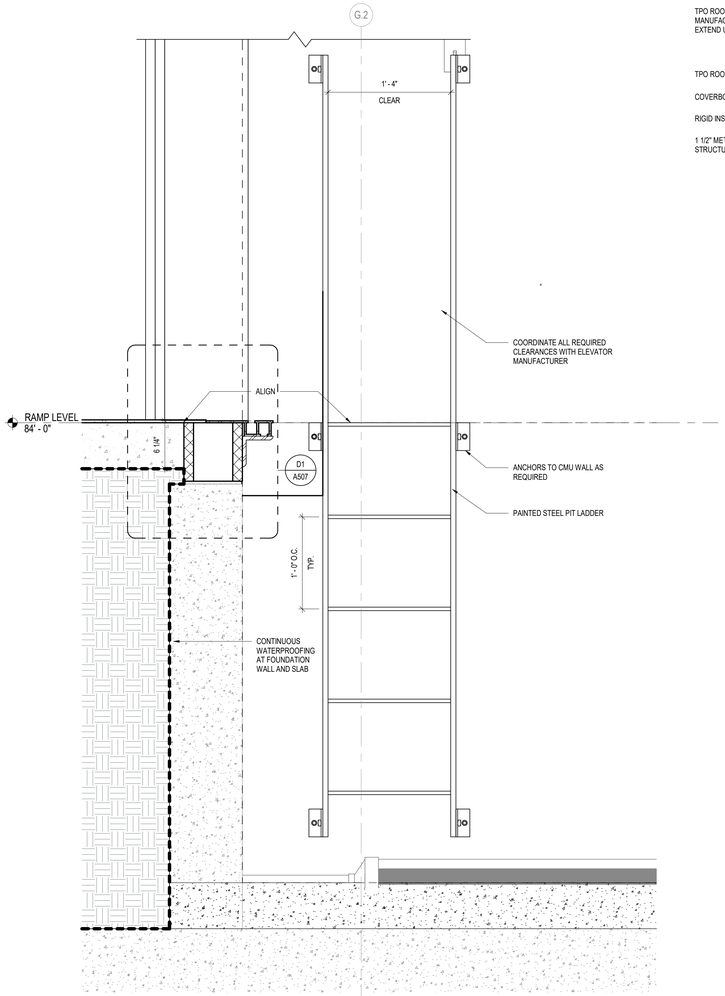
E1 ELEVATOR DOOR SILL TICKET LEVEL DETAIL

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



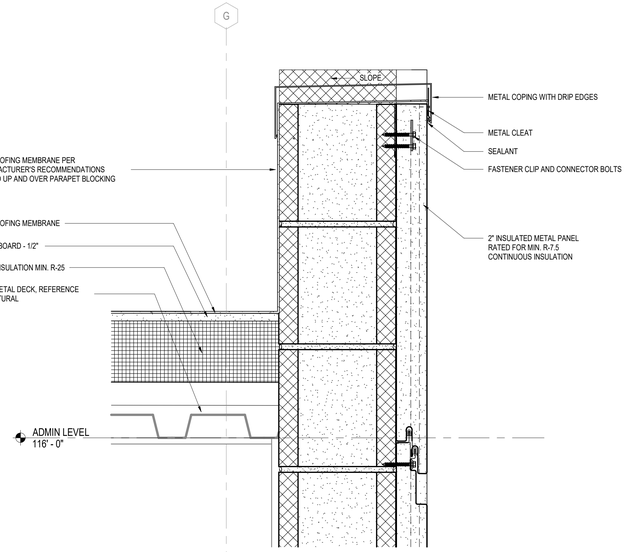
D1 ELEVATOR DOOR SILL RAMP LEVEL DETAIL

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



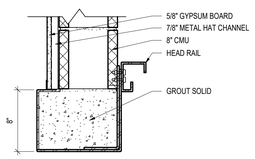
A1 ELEVATOR PIT DETAIL

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



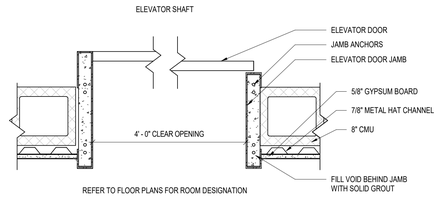
C3 ELEVATOR SHAFT PARAPET DETAIL

SCALE: 3" = 1'-0"



B3 ELEVATOR DOOR HEAD DETAIL

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



A3 ELEVATOR DOOR JAMB DETAIL

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

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DESIGNED BY:	FG

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SHEET TITLE:
ENLARGED ELEVATOR DETAILS

SHEET ID:
A507

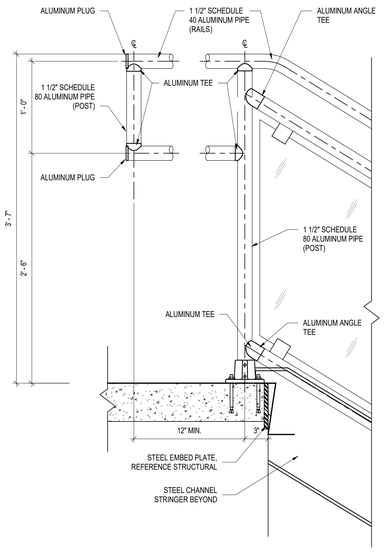
PROJECT STATUS:
100% BID SET

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SCALE: 3" = 1'-0"

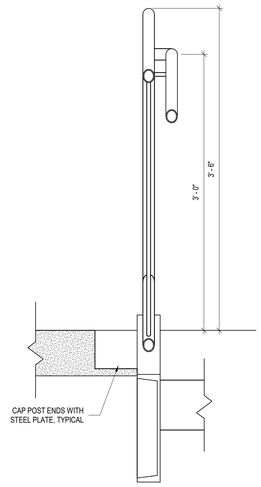
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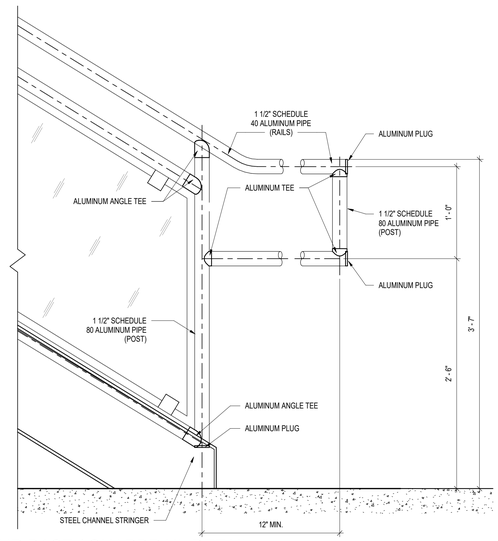
B1 UPPER LANDING RAILING SECTION DETAIL

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



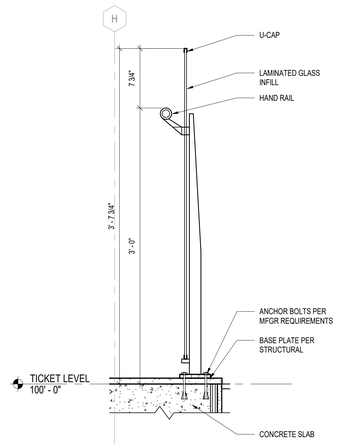
A1 UPPER LANDING ELEVATION

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



A2 STAIR BASE / GUARDRAIL DETAIL

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



A3 GLASS RAILING DETAIL

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

GENERAL NOTES

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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.

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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:	DC
DESIGNED BY:	FG
PROJECT NUMBER:	

1003-0070-004

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RAILING DETAILS

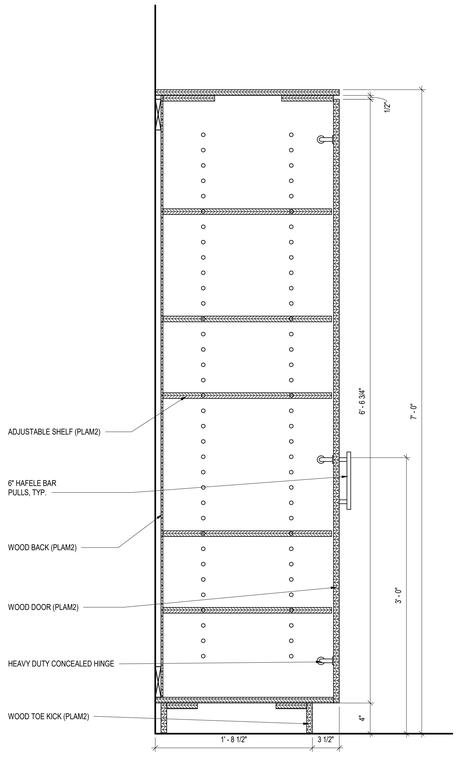
SHEET ID:
A508

PROJECT STATUS:
100% BID SET

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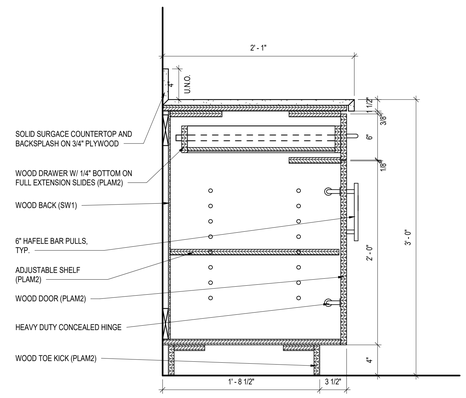
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C1 CABINET DETAIL

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



A1 BASE CABINET / DRAWER SECTION DETAIL

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

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ILM

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
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DRAWN BY:	SS
DESIGNED BY:	FG
PROJECT NUMBER:	**1003-0070-004**

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MILLWORK DETAILS

SHEET ID:
A509

PROJECT STATUS:
100% BID SET

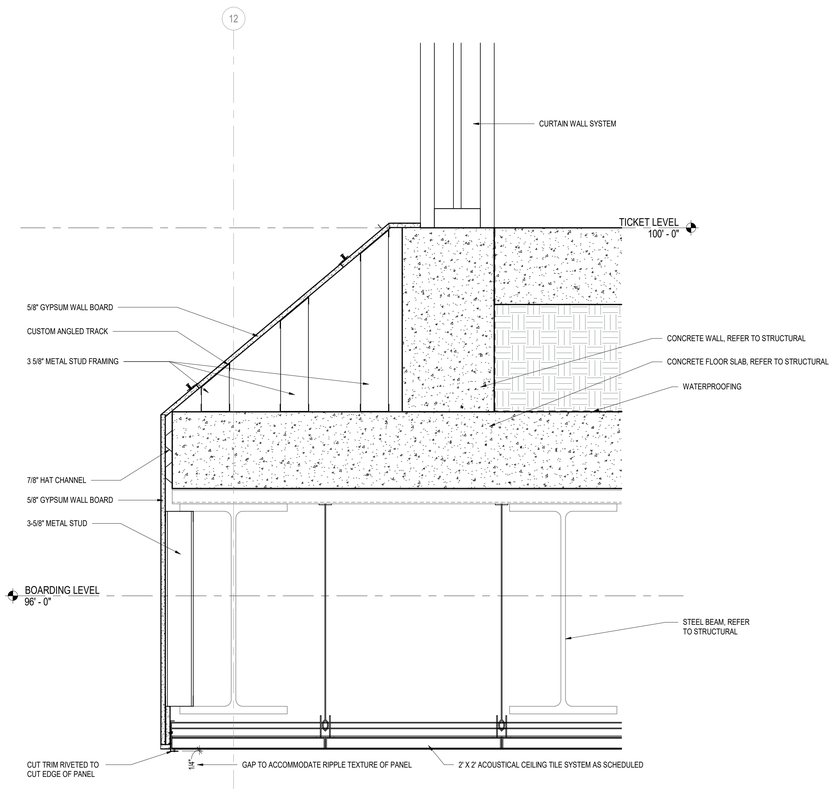
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A1 RAMP LEVEL CEILING TERMINATION DETAIL

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

1 0 1

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

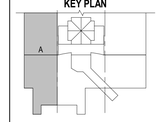
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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY:	KS
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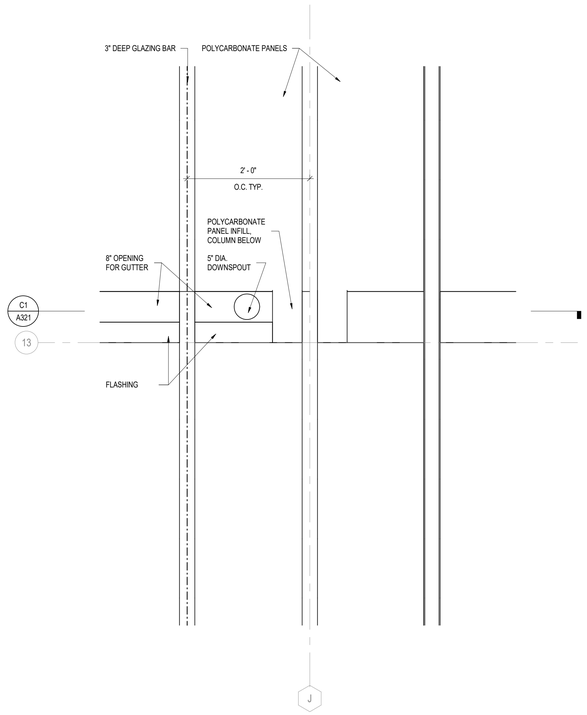
SHEET TITLE:
VERTICAL CIRCULATION DETAILS

SHEET ID:
A511

PROJECT STATUS:
100% BID SET

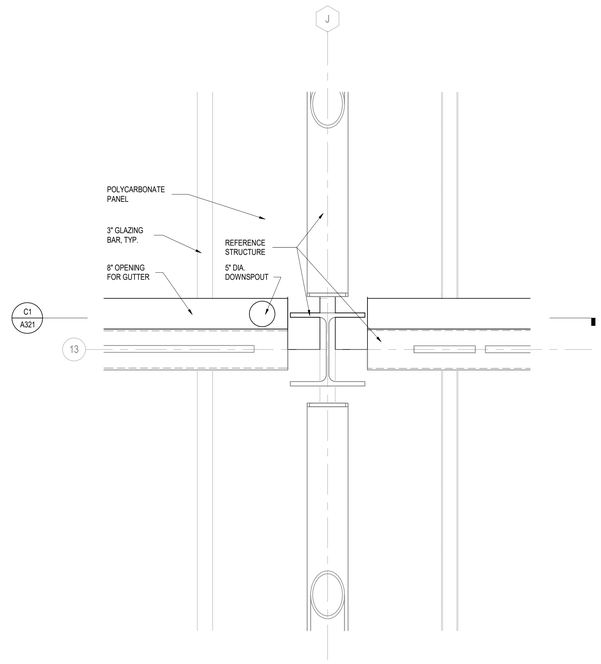
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A1 ROADWAY CANOPY COLUMN PLAN DETAIL

SCALE: 1" = 1'-0"



A3 ROADWAY CANOPY COLUMN RCP

SCALE: 1" = 1'-0"

1 0 1 2

SCALE: 1" = 1'-0"

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NO.	DESCRIPTION	DATE

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DESIGNED BY:	FG

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SHEET TITLE:
ROADWAY CANOPY PLAN DETAILS

SHEET ID:
A512

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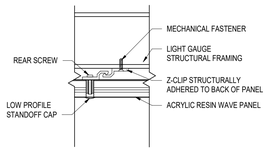
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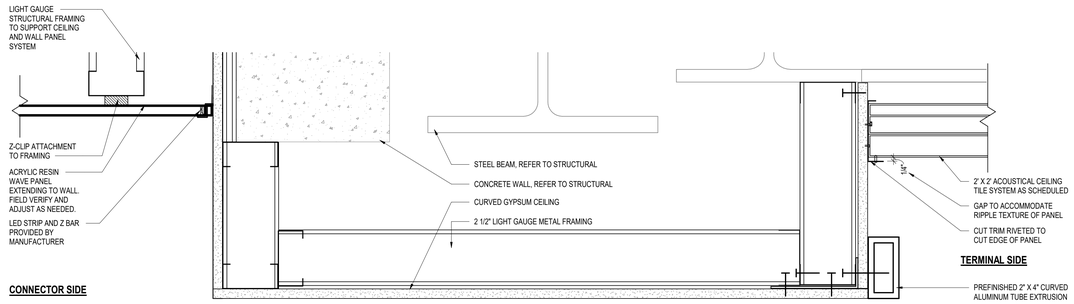
PROJECT TITLE:
ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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WILMINGTON, NC 28405



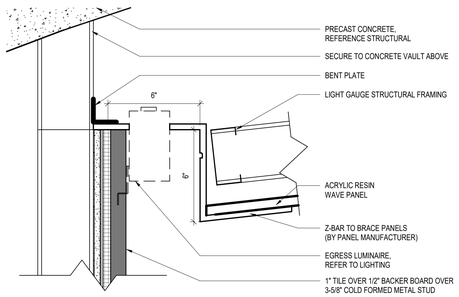
D1 ACRYLIC PANEL HORIZONTAL CONNECTION DETAIL

SCALE: 3" = 1'-0"



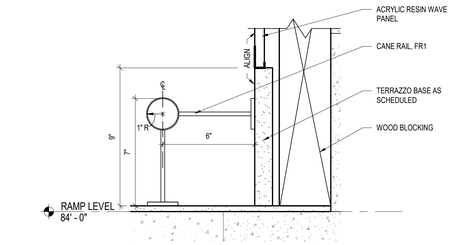
D2 CONNECTOR TERMINAL END - SOFFIT TRANSITION DETAIL

SCALE: 3" = 1'-0"



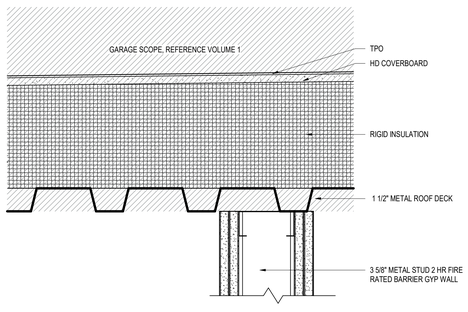
C1 LIGHT COVE DETAIL

SCALE: 3" = 1'-0"



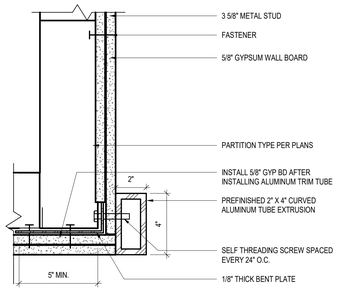
C2 CONNECTOR FLOOR TERMINATION DETAIL

SCALE: 3" = 1'-0"



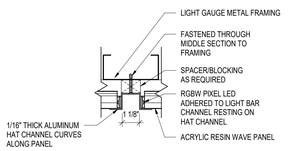
C3 CONNECTOR GARAGE END WALL TO DECK DETAIL

SCALE: 3" = 1'-0"



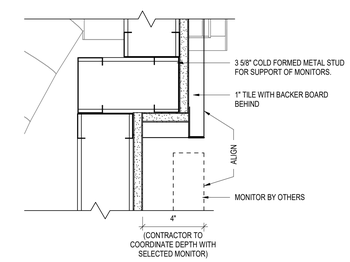
C5 / A550 GARAGE END METAL TRIM DETAIL

SCALE: 3" = 1'-0"



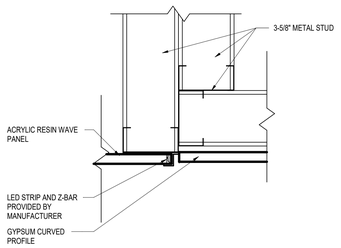
B1 ACRYLIC PANEL TO PANEL DETAIL

SCALE: 3" = 1'-0"



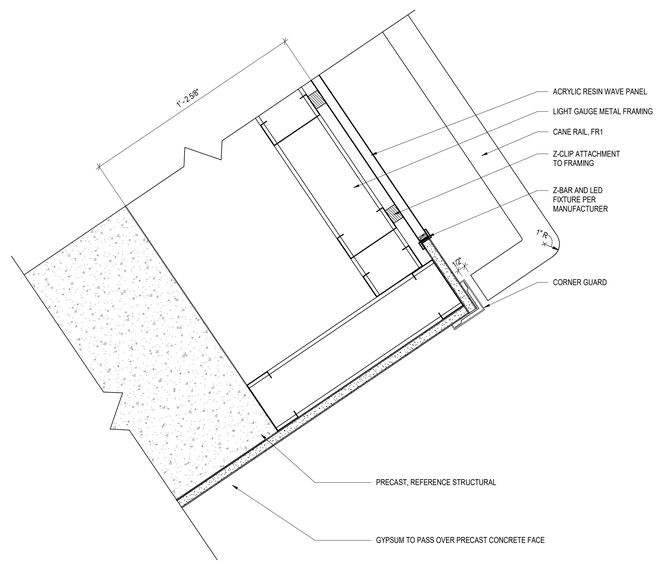
B2 CONNECTOR MONITOR HEAD DETAIL

SCALE: 3" = 1'-0"



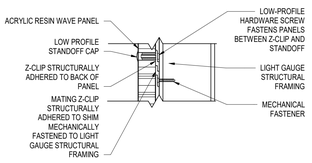
B3 ACRYLIC PANEL TO GYPSUM CEILING DETAIL

SCALE: 3" = 1'-0"



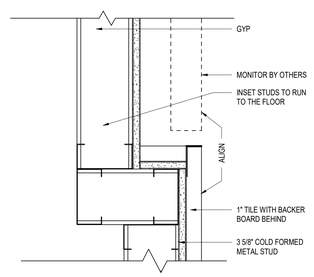
A4 CONNECTOR TERMINATION - GARAGE END

SCALE: 3" = 1'-0"



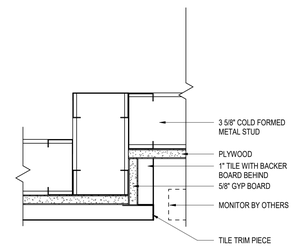
A1 ACRYLIC PANEL VERTICAL CONNECTION DETAIL

SCALE: 3" = 1'-0"



A2 CONNECTOR MONITOR SILL DETAIL

SCALE: 3" = 1'-0"



A3 CONNECTOR MONITOR JAMB DETAIL

SCALE: 3" = 1'-0"

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: SG
DRAWN BY: AM
DESIGNED BY: FG
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CONNECTOR DETAILS

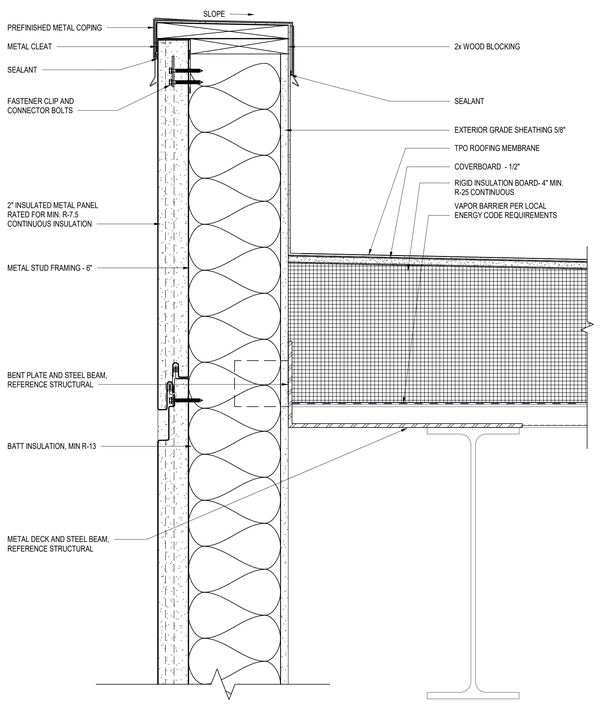
SHEET ID:
A550

PROJECT STATUS:
100% BID SET

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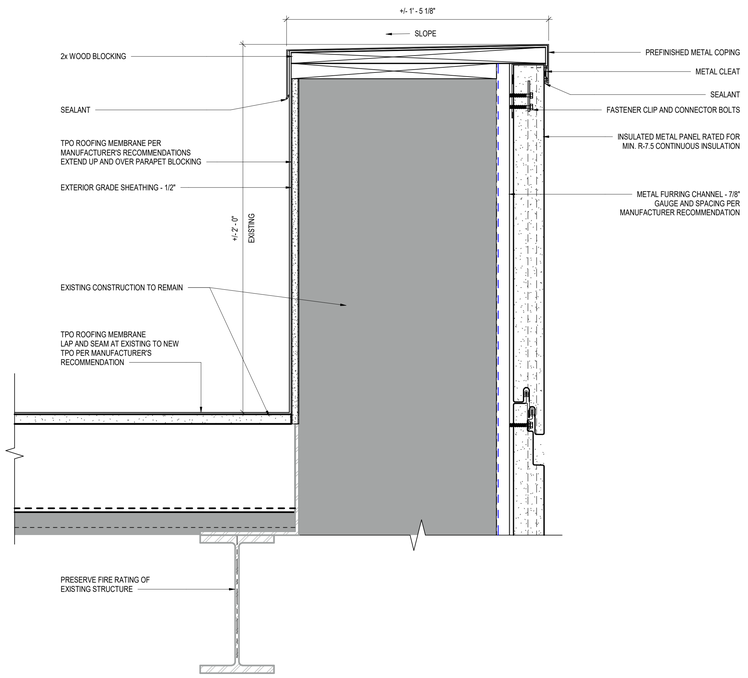
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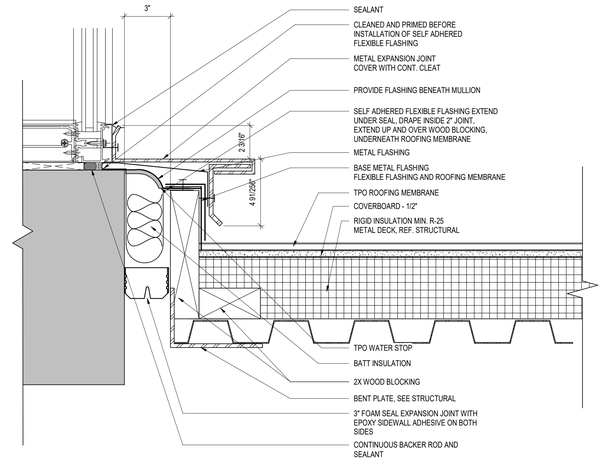
C1 METAL PANEL PARAPET

SCALE: 3" = 1'-0"



A1 METAL PANEL PARAPET AT EXISTING

SCALE: 3" = 1'-0"

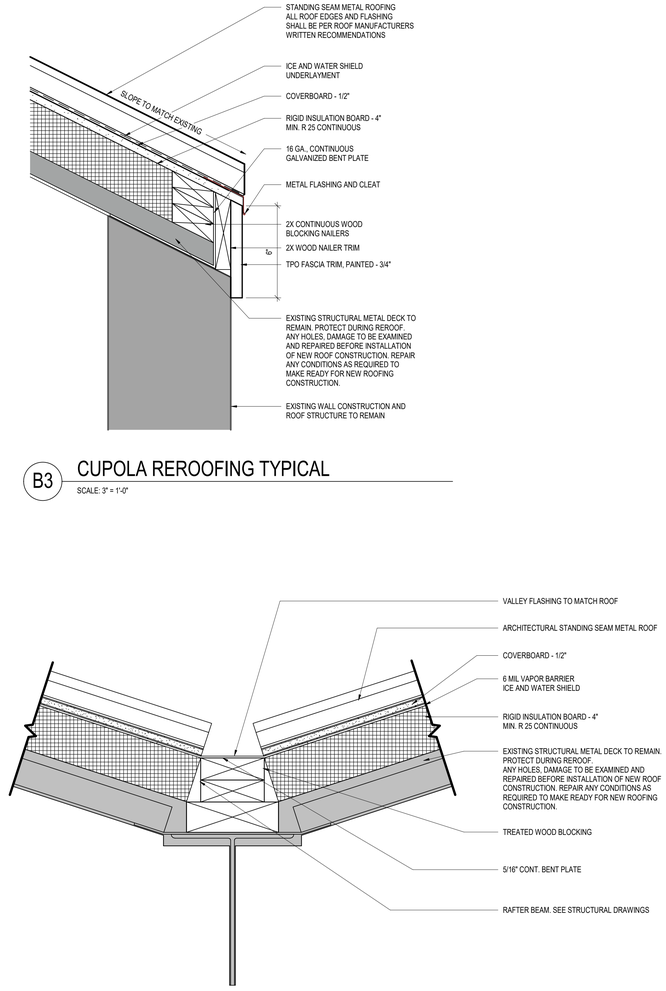


D3 ENLARGED EXPANSION JOINT DETAIL AT BASE OF MULLION

SCALE: 3" = 1'-0"

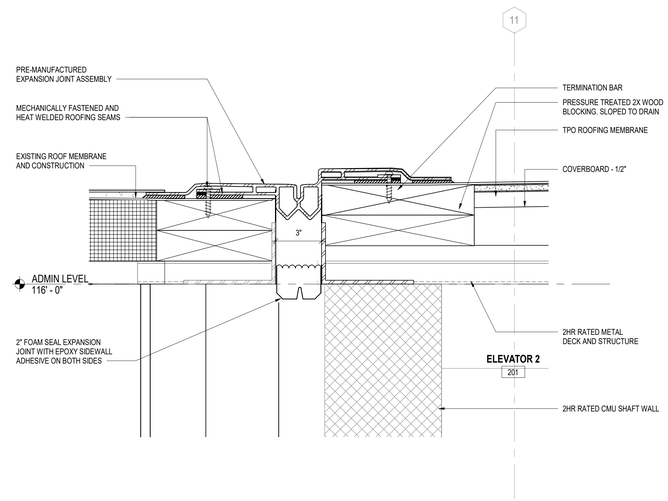
B3 CUPOLA REROOFING TYPICAL

SCALE: 3" = 1'-0"



A3 ROOF VALLEY DETAIL

SCALE: 3" = 1'-0"



C5 ROOF EXPANSION JOINT - EXISTING TO NEW

SCALE: 3" = 1'-0"

B5 ROOF RIDGE DETAIL

SCALE: 3" = 1'-0"

0 1

SCALE: 3" = 1'-0"

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ILM

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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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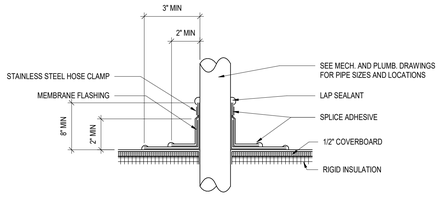
SHEET TITLE:
ROOF DETAILS

SHEET ID:
A551

PROJECT STATUS:
100% BID SET

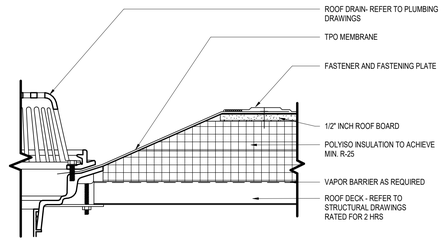
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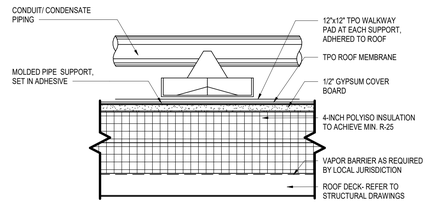
C1 ROOF PIPE PENETRATION

SCALE: 3" = 1'-0"



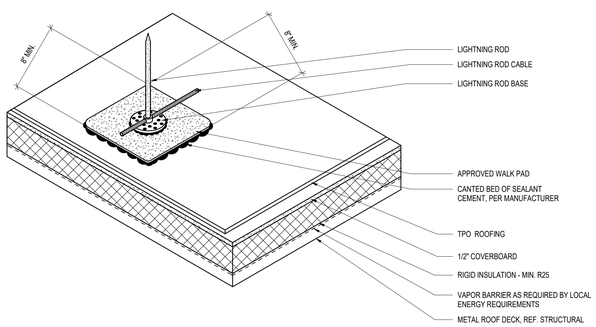
C3 ROOF DRAIN DETAIL

SCALE: 3" = 1'-0"



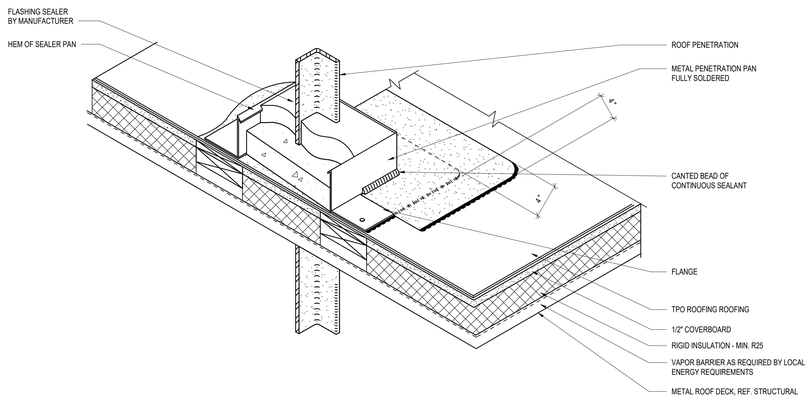
C5 PRE-MOLDED PIPE SUPPORT

SCALE: 3" = 1'-0"



A1 LIGHTNING ROD ON ROOF SURFACE

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



A2 ROOF PENETRATION PAN

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

1 0 1

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

0 1

SCALE: 3" = 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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	**1003-0070-004**

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SHEET TITLE:
ROOF DETAILS

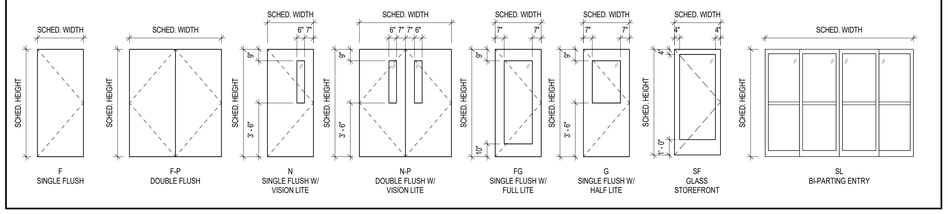
SHEET ID:
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PROJECT STATUS:
100% BID SET

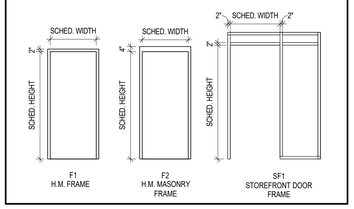
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DOOR TYPES LEGEND



FRAME TYPES LEGEND



DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR DIMENSIONS			DOOR PANEL INFORMATION			DOOR FRAME INFORMATION		DETAILS			FIRE RATING	HARDWARE SET	ACCESS CONTROL	COMMENTS
		WIDTH	HEIGHT	THICKNESS	PANEL TYPE	MATERIAL	FINISH	FRAME TYPE	MATERIAL	HEAD	JAMB	THRESHOLD				
RAMP LEVEL																
111		4' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C1/A602	C2/A602	B1/A811		20.1	Yes	
112	CONNECTOR	18' - 10"	9' - 0"	1 3/4"	OH	MTL	A610	OH1	MTL	C1/A603	A1/A603	A3/A603	2 HR	01	No	AUTOMATIC OVERHEAD COILING DOOR
113	CONNECTOR	4' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C4/A603	C5/A603	E2/A811	2 HR	01	No	
115	MEN'S LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	E1/A602	E2/A602	C3/A602		5	No	
118	WOMEN'S LOCKER ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	E1/A602	E2/A602	C3/A602		5	No	
123	STORAGE	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C1/A602	C2/A602	B1/A811		13	No	EXTERIOR LOCKING
124	MECHANICAL ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C1/A602	C2/A602	B1/A811		13	No	EXTERIOR LOCKING
TICKET LEVEL																
		8' - 0"	7' - 2"	2 1/2"	SL											
	VESTIBULE 3	8' - 0"	7' - 2"	2 1/2"	SL											
202	VESTIBULE 1	13' - 4"	7' - 7"		SL	GLASS		SL1	ALUM	C1/A504	D1/A502	A4/A602			No	AUTOMATIC SLIDING DOOR
202A	VESTIBULE 1	13' - 4"	7' - 7"		SL	GLASS		SL1	ALUM	C4/A602	A3/A502	A3/A602			No	AUTOMATIC SLIDING DOOR
203	VESTIBULE 2	13' - 4"	7' - 7"		SL	GLASS		SL1	ALUM	C1/A504	D1/A502	A4/A602			No	AUTOMATIC SLIDING DOOR
203A	VESTIBULE 2	13' - 4"	7' - 7"		SL	GLASS		SL1	ALUM	C4/A602	A3/A502	A3/A602			No	AUTOMATIC SLIDING DOOR
204	GLOBAL ENTRY OFFICE	3' - 0"	6' - 10 1/2"	1 3/4"	SF	GLASS		SF1	ALUM	B1/A602	B3/A602	C1/A811		13	Yes	ALUMINUM STOREFRONT DOOR W/ TEMPERED FROSTED GLASS
204A	GLOBAL ENTRY OFFICE	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C1/A602	C2/A602	C3/A602			Yes	
204B	GLOBAL ENTRY OFFICE	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C1/A602	C2/A602	C3/A602			Yes	
205	MOTHER'S ROOM	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C1/A602	C2/A602	E2/A811		11	No	INTERIOR LOCKING
206	FAMILY ROOM 1	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C1/A602	C2/A602	E2/A811		11	No	INTERIOR LOCKING
207	FAMILY ROOM 2	3' - 0"	7' - 0"	1 3/4"	F	HM	A610	F1	HM	C1/A602	C2/A602	E2/A811		11	No	INTERIOR LOCKING
208	SHERIFF'S OFFICE	3' - 0"	6' - 10 1/2"	1 3/4"	SF	GLASS		SF1	ALUM	B1/A602	B3/A602	C1/A811		13	Yes	ALUMINUM STOREFRONT DOOR W/ TEMPERED FROSTED GLASS
209	LIEUTENANT'S OFFICE	3' - 0"	6' - 10 1/2"	1 3/4"	SL SL	GLASS		SL1 1	ALUM	D2/407 02	A2/A602 2	A3/A602		6	Yes	ALUMINUM STOREFRONT DOOR W/ TEMPERED FROSTED GLASS

DOOR AND FRAME GENERAL NOTES

1. PROVIDE CAULK / SEALANT ON BOTH SIDES OF FRAMES, TYPICAL.
2. PROVIDE TEMPERED GLAZING AT ALL STOREFRONT DOORS, AT NEW GLAZING WITHIN 24" HORIZONTALLY FROM A DOOR, WHERE NEW GLAZING LITE IS WITHIN 18" A.F.F.
3. FIELD VERIFY ALL CONDITIONS PRIOR TO ORDERING DOORS, HARDWARE, OR ACCESS CONTROLS, TYPICAL.
4. COORDINATE THRESHOLDS WITH FLOOR FINISHES.
5. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DOOR SCHEDULE AND PLAN.
6. ENTIRE DOOR ASSEMBLIES TO MAINTAIN RATINGS AS SCHEDULED AND SHOWN ON THE LIFE SAFETY SHEETS. PROVIDE HARDWARE FOR RATED ASSEMBLIES TO MEET ALL APPLICABLE CODES TO INCLUDE BUT NOT LIMITED TO CLOSERS, PANIC DEVICES, CAULK / SEALANT, SWEEPS, SMOKE SEALS, ETC.
7. SET ALL THRESHOLDS IN EXTERIOR DOORS IN FULL BED OF SEALANT.
8. ALL EXTERIOR DOORS TO MEET WATER TIGHT CONDITION INCLUDING ALL WATERPROOF THRESHOLDS. BUMPER SEALS REQUIRED AT ALL EXTERIOR DOORS U.N.O.
9. SEE DOOR HARDWARE SPECIFICATION FOR DOOR HARDWARE.
10. COORDINATE ALL DOOR HARDWARE WITH ACCESS CONTROL AND FIRE ALARM SYSTEM AS REQUIRED.
11. OBTAIN OWNER'S APPROVAL OF ALL HARDWARE INTENDED FOR THIS PROJECT PRIOR TO ORDERING ANY HARDWARE.

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ILM

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WILMINGTON, NC 28405

REVISIONS

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DATE ISSUED:	03/14/2025
REVIEWED BY:	SG
DRAWN BY:	SS
DESIGNED BY:	FG
PROJECT NUMBER:	

1003-0070-004

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SHEET TITLE:

DOOR SCHEDULE, DOOR TYPES, AND NOTES

SHEET ID:

A601

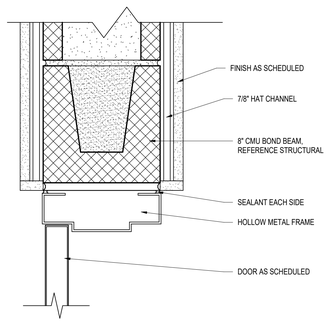
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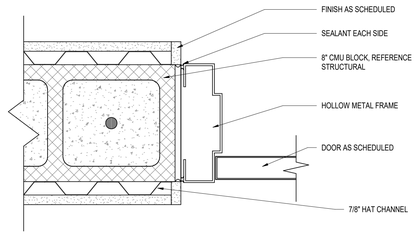
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GENERAL NOTES

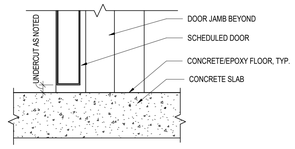
1. DO NOT SCALE DIMENSIONS FROM DRAWINGS - THE CONTRACTOR MUST REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS FROM THE ARCHITECT.
2. ALL DIMENSIONS ARE TO BE FIELD VERIFIED. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.
3. 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.



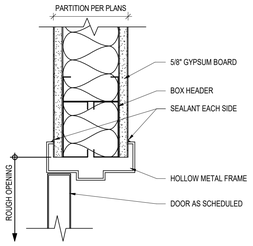
E1 CMU INTERIOR DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



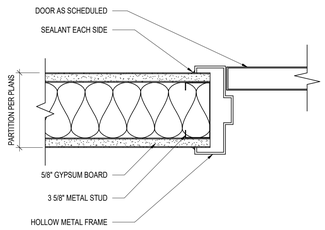
E2 CMU INTERIOR DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



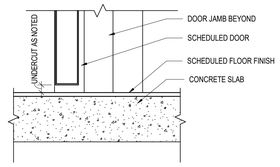
E3 INTERIOR DOOR SILL DETAIL - SC1
SCALE: 3" = 1'-0"



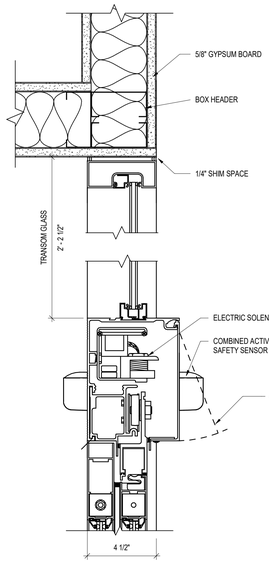
C1 INTERIOR HM DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



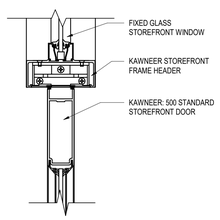
C2 INTERIOR HM DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



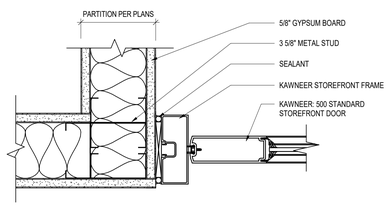
C3 INTERIOR DOOR SILL DETAIL - TYP.
SCALE: 3" = 1'-0"



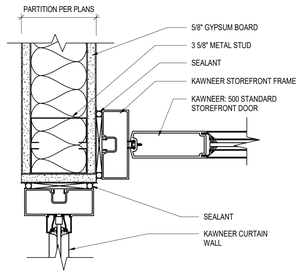
C4 AUTOMATIC DOOR HEAD @ INT. SOFFIT DETAIL
SCALE: 3" = 1'-0"



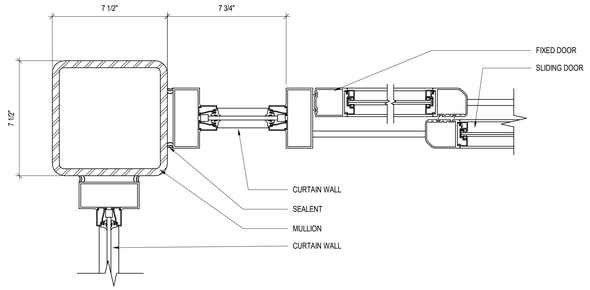
B1 INTERIOR SF DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



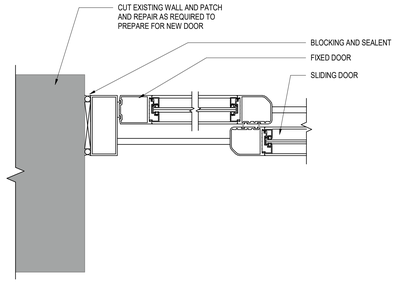
B2 INTERIOR SF DOOR JAMB DETAIL 1
SCALE: 3" = 1'-0"



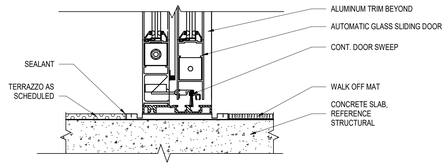
B3 INTERIOR SF DOOR JAMB DETAIL 2
SCALE: 3" = 1'-0"



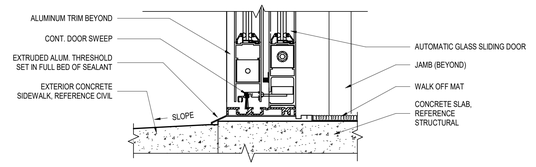
A1 SLIDING GLASS DOOR JAMB DETAIL 2
SCALE: 3" = 1'-0"



A2 SLIDING GLASS DOOR JAMB DETAIL
SCALE: 3" = 1'-0"



A3 AUTOMATIC DOOR AT TERRAZZO SILL DETAIL
SCALE: 3" = 1'-0"



A4 AUTOMATIC DOOR AT EXT. CONCRETE SILL DETAIL
SCALE: 3" = 1'-0"

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

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DATE ISSUED: 03/14/2025
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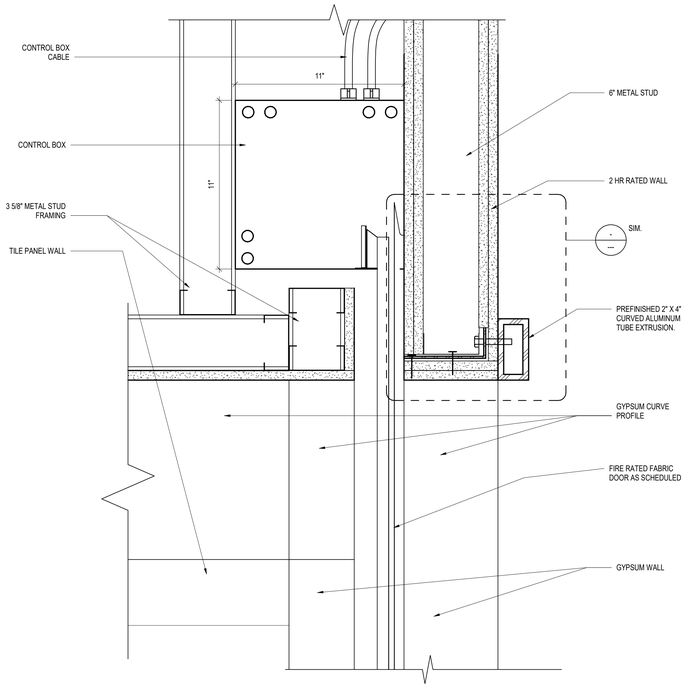
SHEET TITLE:
DOOR DETAILS

SHEET ID:
A602

PROJECT STATUS:
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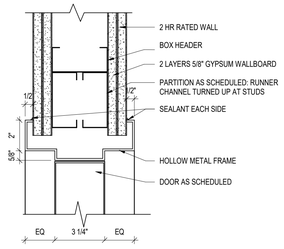
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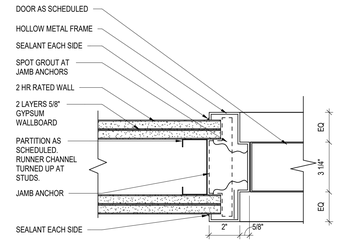
C1 CONNECTOR FIRE RATED ROLLING DOOR HEAD DETAIL

SCALE: 3" = 1'-0"



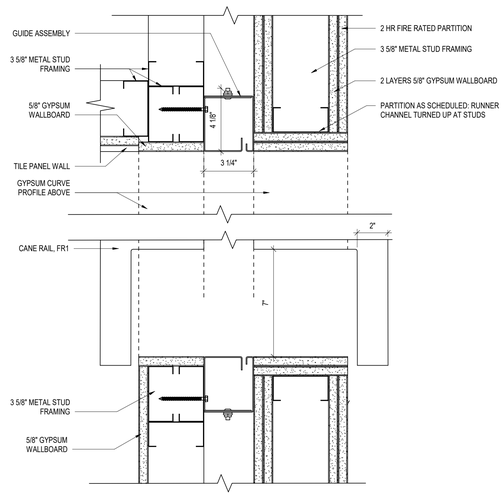
C4 2HR RATED DOOR HEAD DETAIL

SCALE: 3" = 1'-0"



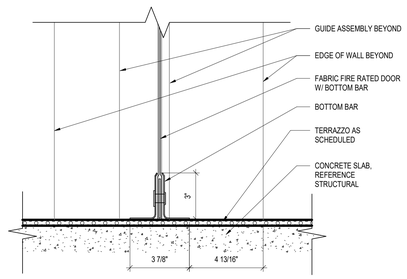
C5 2HR RATED DOOR JAMB DETAIL

SCALE: 3" = 1'-0"



A1 CONNECTOR FIRE RATED FABRIC DOOR JAMB DETAIL

SCALE: 3" = 1'-0"



A3 CONNECTOR FIRE RATED FABRIC DOOR SILL DETAIL

SCALE: 3" = 1'-0"

0 1

SCALE: 3" = 1'-0"

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DATE ISSUED:	03/14/2025
REVIEWED BY:	JB
DRAWN BY:	SS
DESIGNED BY:	RS&H
PROJECT NUMBER:	

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SHEET TITLE:
DOOR DETAILS

SHEET ID:
A603

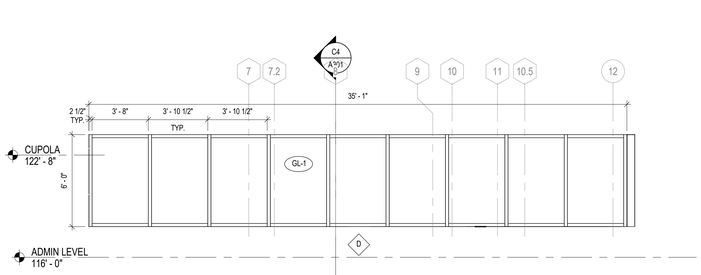
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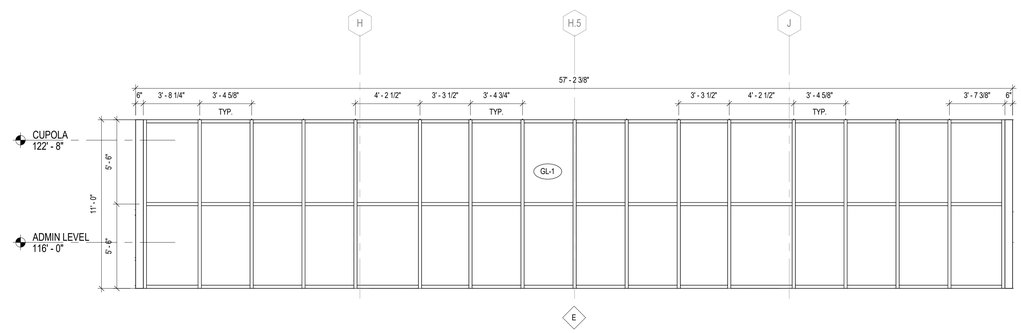
GENERAL NOTES

1. REFERENCE INTERIOR AND EXTERIOR ELEVATIONS, FINISH LEGEND FOR ADDITIONAL INFORMATION



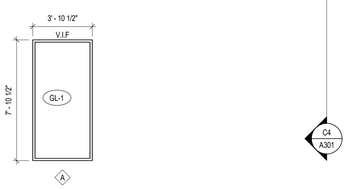
B1 CLERESTORY AT SIDES OF TERMINAL ENTRY- TYPE D

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



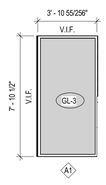
B3 TERMINAL ENTRY - TYPE E

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



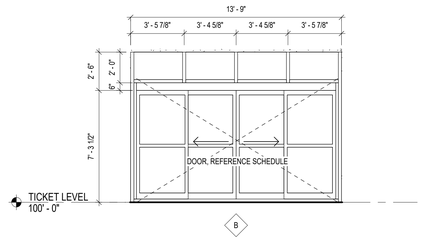
A1 CURVED EXT. WINDOW- TYPE A

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



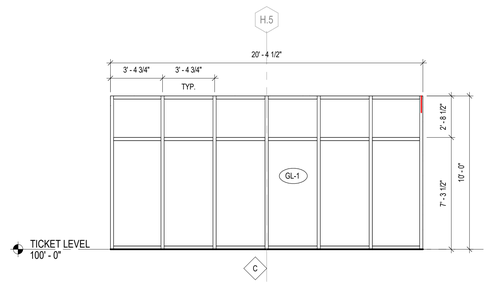
A2 CURVED EXT. WINDOW - SPANDREL - TYPE A1

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



A3 TERMINAL ENTRY SLIDING DOOR - TYPE B

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



A4 TERMINAL ENTRY - TYPE C

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

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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	**1003-0070-004**

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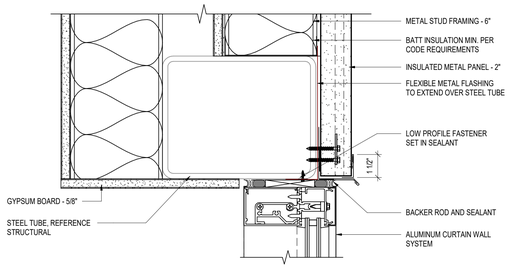
SHEET TITLE:
WINDOW SCHEDULE, WINDOW TYPES AND NOTES

SHEET ID:
A605

PROJECT STATUS:
100% BID SET

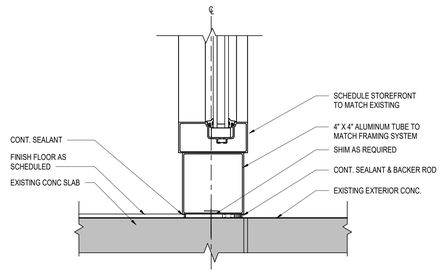
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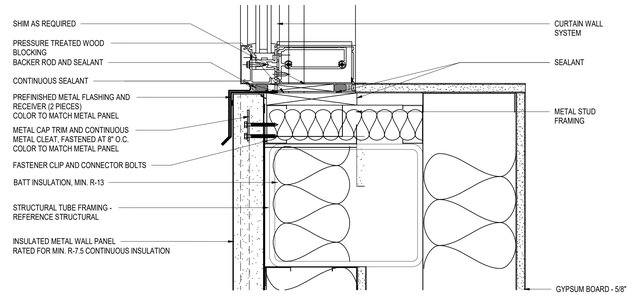
D1 WINDOW WALL HEAD DETAIL @ STEEL TUBE

SCALE: 3" = 1'-0"



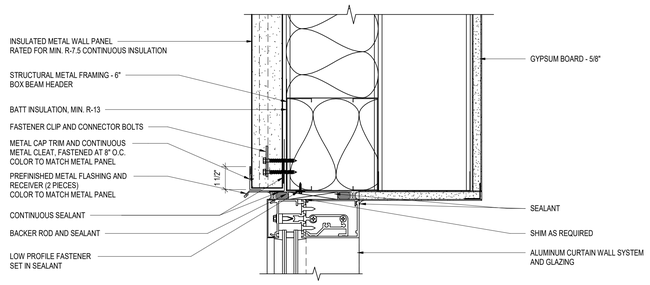
D2 SILL DETAIL @ EXT. STOREFRONT

SCALE: 3" = 1'-0"



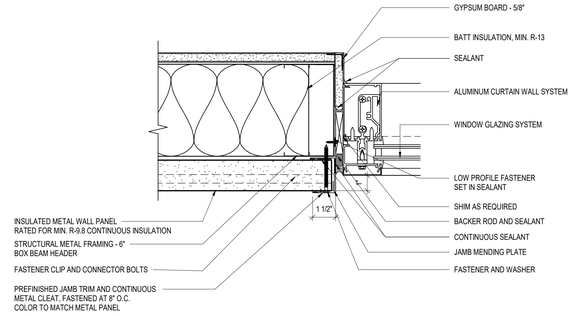
D4 WINDOW WALL SILL DETAIL @ STEEL TUBE

SCALE: 3" = 1'-0"



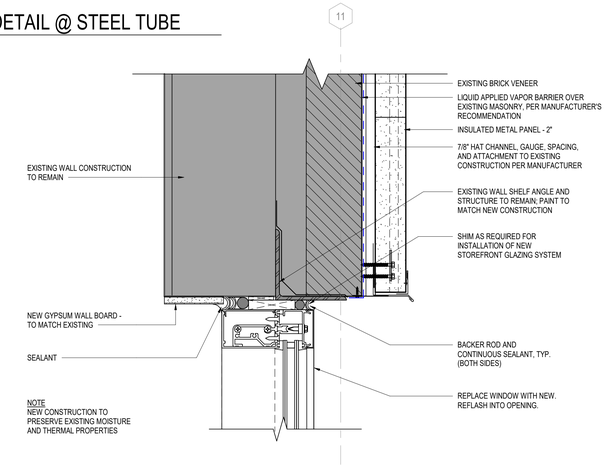
C1 WINDOW WALL HEAD DETAIL

SCALE: 3" = 1'-0"



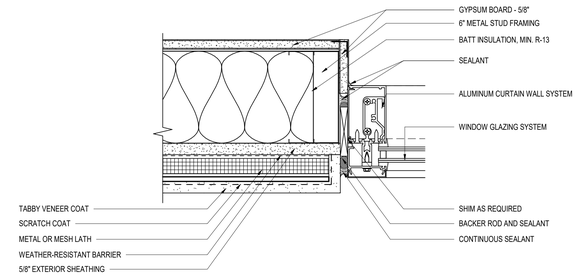
C3 WINDOW JAMB DETAIL

SCALE: 3" = 1'-0"



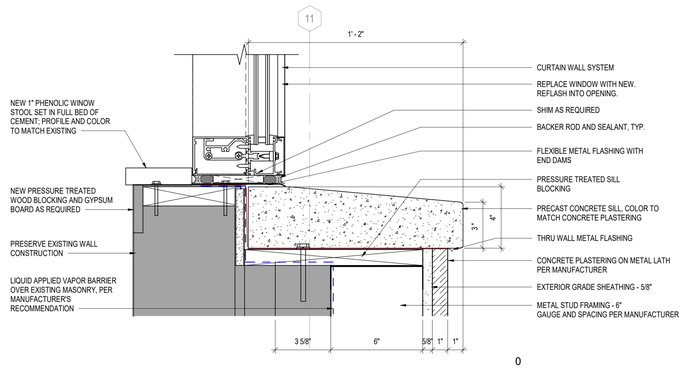
C5 RECLADDING AT REPLACED WINDOW TOP

SCALE: 3" = 1'-0"



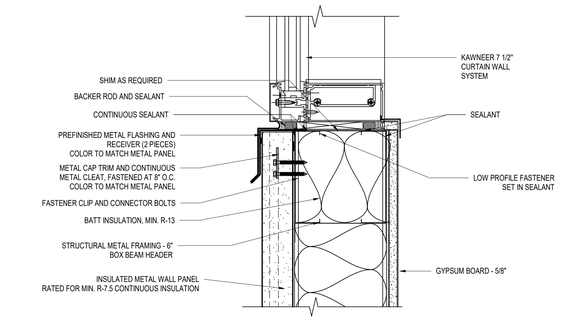
B5 RECLADDING AT EXISTING WINDOW JAMB

SCALE: 3" = 1'-0"



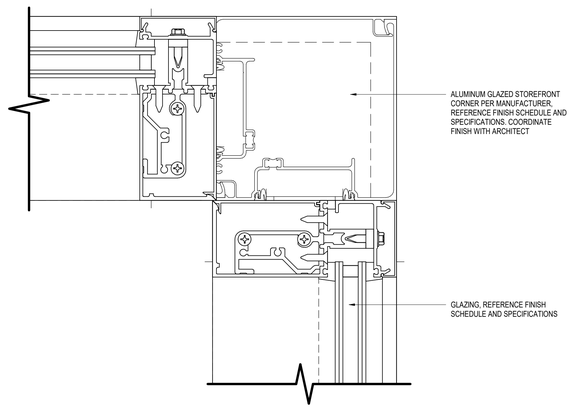
A5 RECLADDING AT REPLACED WINDOW BASE

SCALE: 3" = 1'-0"



A1 CURTAIN WALL SILL DETAIL @ METAL PANEL

SCALE: 3" = 1'-0"



A3 STOREFRONT CORNER DETAIL

SCALE: 6" = 1'-0"

0 1

SCALE: 3" = 1'-0"

1 0 1

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

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.

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Charlotte, NC 28203
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www.rsandh.com
North Carolina License Nos. 50073 *
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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG
PROJECT NUMBER:	

1003-0070-004

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SEAL:

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SHEET TITLE:
WINDOW DETAILS

SHEET ID:
A606

PROJECT STATUS:
100% BID SET

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VOL 2 FINISH LEGEND

MATERIAL TYPE	LOCATION	MATERIAL	DESCRIPTION	MANUFACTURER	SPECIFICATION	SIZE	REMARKS
-							
GLAZING							
GLAZING	-	GL1	EXTERIOR GLASS	VITRO	SEE SPECIFICATION SECTION 08 80 00		
GLAZING	-	GL2	INTERIOR GLASS	MCGRORY GLASS	SEE SPECIFICATION SECTION 08 80 00		
GLAZING	-	GL3	SPANDREL GLASS	VITRO	SEE SPECIFICATION SECTION 08 80 00		
GLAZING	-	WF1	FROSTED FILM	DECORATIVE FILMS	BOD: SOLYX GLASS FINISHES SXJ-0598 DUAL MISTY FROST GRADIENT. INSTALL PER MANUFACTURER'S REQUIREMENTS		
EXTERIOR CEILINGS							
CEILINGS	EXTERIOR	PCP1	POLYCARBONATE PANEL - CANOPY	3FORM	TYPE: KODA XT, EXTRUDED; COLORS: LOGO BLUE 02, LOGO BLUE 01, FOUNTAIN, CORNFLOWER; PATTERN: TO BE COORDINATED WITH ARCHITECT	PER SPECIFICATION	CONTACT: MARIE HERR, 970-390-0894, MARIE.HERR@3-FORM.COM
CEILINGS	EXTERIOR	PCP2	POLYCARBONATE PANEL - CANOPY	3FORM	TYPE: KODA XT, EXTRUDED; COLORS: LOGO BLUE 02, LOGO BLUE 01, FOUNTAIN, CORNFLOWER; PATTERN: TO BE COORDINATED WITH ARCHITECT	3/8" THICK, PER SPECIFICATION	CONTACT: MARIE HERR, 970-390-0894, MARIE.HERR@3-FORM.COM
FLOORING							
FLOORING	EXTERIOR	PV1	PAVER	HANOVER	PREST PAVER, MATRIX #M1914, FINISH #13, SRI 51		
FLOORING	EXTERIOR	PV2	PAVER	HANOVER	PREST PAVER, MATRIX #M1810, FINISH: TUDOR, SRI 40		
FLOORING	EXTERIOR	PV3	PAVER	HANOVER	PREST PAVER, MATRIX #M1537, FINISH: TUDOR, SQUARE EDGE		
METAL PANELS							
METAL PANELS	EXTERIOR	IMP1	INSULATED METAL PANEL - CENTER ATRIUM EXTENSION	KINGSPAN	QUADCORE B DESIGNWALL 2000, COLOR: REGAL BLUE	2" THICK	
METAL PANELS	EXTERIOR	IMP2	INSULATED METAL PANEL - GENERAL, GARAGE	KINGSPAN	QUADCORE B DESIGNWALL 2000, COLOR: REGAL WHITE	2" THICK	
METAL PANELS	EXTERIOR	RP1	ROOFING PANEL AT CUPOLA	BERRIDGE	COLOR: SHASTA WHITE. MODEL: DOUBLE LOCK ZEE LOCK	TBD	
PAINT							
PAINT	EXTERIOR	EP1	NOT USED		NOT USED		
PAINT	EXTERIOR	EP2	NOT USED		NOT USED		
PAINT	EXTERIOR	EP3	EXTERIOR PAINT - DOOR	SHERWIN WILLIAMS	ARCHITECT TO SELECT FROM MANUF. FULL RANGE OF COLOR		
STONE PANELS							
STONE PANELS	EXTERIOR	SP1	CONRETE PLASTERING - TERMINAL FACADE	TBD	COLOR TYPE: TABBY OYSTER SHELL, COLOR: LIGHT CREAM		
WALL							
WALL	EXTERIOR	CW1	CURTAIN WALL	KAWNEER	1600 WALL SYSTEM1 CURTAIN WALL, INSULATED GLAZING, THICKNESS: , LOW-E, GAS: ,SEAL: ,GLAZING FINISH TO MATCH EXISTING, FINISH: ANODIZED ALUMINUM	6" X 2.5"	
WALL	EXTERIOR	CW2	CURTAIN WALL	KAWNEER	1600 WALL SYSTEM1 CURTAIN WALL, INSULATED GLAZING, THICKNESS: , LOW-E, GAS: ,SEAL: ,GLAZING FINISH TO MATCH EXISTING, FINISH: ANODIZED ALUMINUM	7 1/2"	
INTERIOR CASEWORK							
CASEWORK	INTERIOR	PLAM1	PLASTIC LAMINATE - RESTROOM APRONS	WILSONART	COLOR: SATIN STAINLESS 4830-18, FINISH: LINEARITY, INSTALL PATTERN HORIZONTALLY IN ALL INSTANCES, SHOW INSTALLATION DIRECTION IN SHOP DRAWINGS	4' X 8'	CONTACT: CATHY GRIMM, 813-682-9624, CATHY.GRIMM@WILSONART.COM
CASEWORK	INTERIOR	PLAM2	PLASTIC LAMINATE - CABINETS - VERTICAL	WILSONART	COLOR: SATIN STAINLESS 4830-18, FINISH: LINEARITY, INSTALL PATTERN VERTICALLY IN ALL INSTANCES, SHOW INSTALLATION DIRECTION IN SHOP DRAWINGS		CONTACT: CATHY GRIMM, 813-682-9624, CATHY.GRIMM@WILSONART.COM
CASEWORK	INTERIOR	SS1	QUARTZ - MOTHER'S ROOM	CAMBRIA	COLLECTION: LUXURY SERIES, STYLE: PORTRUSH, EDGE PROFILE: EASED EDGE	132 IN X 65.5 IN X 3 CM	CONTACT: TANYA BARKER, 407.490.2099, TANYA.BARKER@CAMBRIAUSA.COM
CASEWORK	INTERIOR	SS2	QUARTZ - RESTROOMS	COSENTINO	STYLE: ETERNAL CALACATTA GOLD, FINISH: POLISHED, THICKNESS: 3CM - PRICE GROUP 2	128.74" x 62.60" x 3 CM THICK	CONTACT: NICOLE WATSON, 859-638-2928, NICOLET@COSENTINO.COM
CEILINGS							
CEILINGS	INTERIOR	ACT1	ACOUSTICAL CEILING TILE - GENERAL, OFFICES, RESTROOMS	ARMSTRONG	ULTIMA LAY IN, PRODUCT #1910, SIZE: 2' X 2' TILE, WHITE GRID, PRELUDE XL 15/16" EXPOSED TEE. 6" AXIOM TRIM AX6CUR.	2' X 2' X 7/8"	CONTACT: BILL MENDEK, 904-652-6921,WJMENDEK@ARMSTRONGCEILINGS.COM
CEILINGS	INTERIOR	ACT4	ACOUSTICAL CEILING TILE - (ESCALATORS, FIRST FLOOR)	ARKTURA	SURFACE TEXTURE: MIRROR - SMOOTH, COMPOSITION: 20-GAUGE 304 STAINLESS STEEL, COLOR: STAINLESS, SIZE: APPROXIMATELY: 2' x 6', TEXTURE: RIPPLE, CONSTRUCTION: DOUBLE RETURN FLANGES MAY BE REQUIRED ON ALL 4 SIDES, SUSPENSION SYSTEM: TORSION SPRING CEILING PANELS, PRELUDE XL 12' WITH Z' CROSS TEE SLOTTED	2' X 6'	CONTACT: STEVEN RANTA, 310-291-8096, STEVEN.RANTA@ARKTURA.COM
CEILINGS	INTERIOR	AP1	ACRYLIC PANEL	SENSITILE	LUMINA, PATTERN: RANDOM, LIGHT POINT DENSITY: STANDARD (MEDIUM), GRAIN WIDTH: 3/8", CORE THICKNESS: 3/4", CLADDING THICKNESS: 1/8", CLADDING FINISH: FROSTED- CLEAR - CLEAR MIRROR - WHITE PROTECT, INTERLAYER: NONE, LIGHT EMISSION: FACE ONLY, LED COLORS: RGBW COLOR CHANGING, EDGE TYPE: POLISHED	1-1/16" THICK	CONTACT: MOLLY GREEN, 313-872-6314 EXT. 106, ESTIMATING@SENSITILE.COM, SUBMIT SAMPLE FOR APPROVAL
CEILINGS	INTERIOR	GWB/P5	GYPSUM WALL BOARD - PAINTED, RESTROOMS, LOCKER ROOM	SHERWIN WILLIAMS	COLOR: PURE WHITE SW 7005, EG-SHEL		CONTACT: FRED LAURO, 727-735-1643, FREDERICK.M.LAURO@SHERWIN.COM
FLOORING							
FLOORING	INTERIOR	CPT1	CARPET TILE - BACK OF HOUSE/ADMIN/OFFICES	SHAW	COLLECTION: PLACES, STYLE NAME: CENTRAL LINE TINE, STYLE NUMBER: 5T176, COLOR: SKYLINE CYAN 72501, INSTALLATION: ASHLAR	9" X 36 X .231" THICK	CONTACT: REBECCA CROSBY, 904-517-3308, REBECCA.CROSBY@SHAW.COM
FLOORING	INTERIOR	SC1	SEALED CONCRETE (MECH/STORAGE)	PACHYDERM/ KEY RESIN	SEALER: KEY 804		CONTACT: BRIAN WOLFE, 813-464-1510, BWOLFE@PMCTAMPA.COM
FLOORING	INTERIOR	STC1	STAINED CONCRETE - HISTORY WALL CORRIDOR	SHERWIN WILLIAMS	RESUFLOR TOPCOAT METALLIC, COLOR: BLUE LAGOON, FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION METHOD. STEP 1. SUBSTRATE PREP. STEP 2. TF PLUS PRIMER APPLIED AT 100 SF/KIT. 3 APPLY POLY-CRETE SL WITH F-60 AGGREGATE BROADCAST. 4. ALLOW MATERIAL TO FULLY CURE. 5. VACUUM, SWEEP, AND/OR BLOW TO REMOVE ALL LOOSE AGGREGATE. 6. LAY METALLIC TOP COAT. MAINTAIN DAILY WITH ROTARY FLOOR SCRUBBER WITH PH NEUTRAL CLEANER.	3/16"	CONTACT: MARK.EDINGER, 980-278-1232, MARK.EDINGER@SHERWIN.COM
FLOORING	INTERIOR	TER1	TERRAZZO - DARK BLUE	TERROXY RESIN SYSTEMS	TMM24-3193, EPOXY COLOR: BLUE ENTRY #5978, GRIT: 200, FILLER: CLEAR GLASS FINES, SEALER: WB ACRYLIC, CHIPS: 80% - SIZE:1 MIDNIGHT BLUE GLASS, 20% - SIZE: 2 - SO CAL ONE SIDED MIRROR	3/8" THICK	CONTACT: BRAD HEDGES, 770-325-0725, BRAD@SCIGA.COM
FLOORING	INTERIOR	TER2	TERRAZZO - LIGHT BLUE	TERROXY RESIN SYSTEMS	TM# 24-3188, EPOXY COLOR: SW BLUE CHIP #8063, GRIT: 200, FILLER: ATF-20, SEALER: WB ACRYLIC, CHIPS: 30% - SIZE: 2- CLASSIC MOP, 30%- SIZE: 2 - CRYSTAL GLASS, 20%: SIZE 2 - SO-CAL ONE SIDED MIRROR, 20% - SIZE: 2 - GA WHITE	3/8" THICK	CONTACT: BRAD HEDGES, 770-325-0725, BRAD@SCIGA.COM
FLOORING	INTERIOR	TER3	TERRAZZO - GENERAL, RESTROOMS	TERROXY RESIN SYSTEMS	TMM24-3194, EPOXY COLOR: 2001 WHITE, GRIT: 200, FILLER: ATF-20, SEALER: WB ACRYLIC, CHIPS: 70% - SIZE: 1 - PURE WHITE, 30% - SIZE: 2 - PURE WHITE	3/8" THICK	CONTACT: BRAD HEDGES, 770-325-0725, BRAD@SCIGA.COM
FLOORING	INTERIOR	TER4	TERRAZZO - SAND	TERROXY RESIN SYSTEMS	TMM 24-3186, EPOXY COLOR: URBAN PUTTY #4638, GRIT: 200, FILLER: ATF-20, SEALER: WB ACRYLIC, CHIPS: 30%-SIZE: 2- CLASSIC MOP, 30%- SIZE: 2- CRYSTAL GLASS, 20%-SIZE-2- SO-CAL ONE SIDED MIRROR, 20% - SIZE:2 - GA WHITE	3/8" THICK	CONTACT: BRAD HEDGES, 770-325-0725, BRAD@SCIGA.COM

VOL 2 FINISH LEGEND

MATERIAL TYPE	LOCATION	MATERIAL	DESCRIPTION	MANUFACTURER	SPECIFICATION	SIZE	REMARKS
FLOORING	INTERIOR	TER5	TERRAZZO - DIVIDER STRIPS	TERROXY RESIN SYSTEMS	L BRACKET, ALUMINUM	1/8" X 3/8" H	CONTACT: BRAD HEDGES, 770-325-0725, BRAD@SCIGA.COM
FLOORING	INTERIOR	TER6	TERRAZZO - ALUMINUM BIRD FEET	TERROXY RESIN SYSTEMS	BIRD FOOT PRINTS ALUMINUM INLAY AS SPECIFIED, REFER TO FINISH PLANS	REFER TO DRAWINGS	CONTACT: BRAD HEDGES, 770-325-0725, BRAD@SCIGA.COM
FLOORING	INTERIOR	TERR	TERRAZZO - MATCH EXISTING - TICKETING LEVEL	TERROXY RESIN SYSTEMS	TMM24-3194, EPOXY COLOR: #2001 WHITE, GRIT: 200, ATF-20, SEALER: WB ACRYLIC, CHIPS: 70%- SIZE 1- PURE WHITE, 30% - SIZE 2: PURE WHITE	3/8" THICK	CONTACT: BRAD HEDGES, 770-325-0725, BRAD@SCIGA.COM
FLOORING	INTERIOR	WOM1	WALK OFF MAT	MILLIKEN	OBEX CUTX/ GRAIN, COLOR: TAUPE, COLOR CODE: GRX174-133. PRINTWORKS PRECISION DYE, INSTALLATION METHOD: HORIZONTAL PLANK ASHLAR	25CM X 1M X .50" THICK	CONTACT: HANK ISRAEL, 954-290-8169, HANK.ISRAEL@MILLIKEN.COM
FLOORING	INTERIOR	WOM2	WALK OFF MAT	MILLIKEN	OBEX CUTX/GRAIN, COLOR: NAVY, COLOR CODE: GRX52, PRINWORKS PRECISION DYE, INSTALLATION METHOD: HORIZONTAL PLANK ASHLAR	25CM X 1M X .50" THICK	CONTACT: HANK ISRAEL, 954-290-8169, HANK.ISRAEL@MILLIKEN.COM
GROUT							
GROUT	INTERIOR	G1	GROUT 1/8" JOINTS	MAPEI	KERAPOXY CQ, COLOR: ALABASTER 01, USE WITH ALL TILE UNLESS NOTED OTHERWISE	1/8"	CONTACT: JEFF BLUMBERG, 954-304-0878, JBLUMBERG@MAPEI.COM
GROUT	INTERIOR	G2	GROUT 1/8" JOINTS	STARLIKE EVO	COLLECTION: GLAM, FINISH: GALAXY, COLOR: 300 AZZURRO PASTELLO	1/8"	CONTACT: ROBIN CALPEY, 850-210-2643, RCALPEY@TRINITYSURFACES.COM
GROUT	INTERIOR	G3	GROUT 1/8" JOINTS	STARLIKE EVO	COLLECTION: GLAM, FINISH: GALAXY, COLOR: 330 BLU AVIO	1/8"	CONTACT: ROBIN CALPEY, 850-210-2643, RCALPEY@TRINITYSURFACES.COM
METAL PANELS							
METAL PANELS	INTERIOR	MP1	METAL COLUMN WRAP	MOZ	LASER CUT, PATTERN: FALLS, TOP OF LASER CUT PATTERN 8' AFF, COLOR: SILVER METALLIC, RGBW LED BACKLIT, RECESSED BASE INSET 1" AND 9" H BRUSHED STAINLESS. COORDINATE WITH ELECTRICAL, PROVIDE SHOP DRAWING PRIOR TO ORDERING.	32" X 104" X 1/8" THICK	CONTACT: JAMIE SANDFORD, 720.654.3380, JAMIE@MOZDESIGNS.COM
METAL PANELS	INTERIOR	MP2	METAL LAMINATE ACCENT BAND - CONNECTOR ENTRANCES	MOZ	STYLE: GRADIENT, COLOR: AURORA COBALT GRADIENT TO TURQUOISE, .040 ALUMINUM,FINISH: COARSE, INCLUDE 1" DIAMETER STANDOFF, CYLINDER CAP 1/4", SUBMIT SAMPLE FOR APPROVAL	4' X 10'	CONTACT: JAMIE SANDFORD, 720.654.3380, JAMIE@MOZDESIGNS.COM
SPECIALTY							
SPECIALTY	INTERIOR	FR1	FOOT RAIL	KEGWORKS	CONTEMPORARY FOOT RAIL BRACKET 2" OD ALTERNATING WITH ADDITIONAL BRACKET SUPPORT: 90° POST FOOT RAIL BRACKET 2' OD., FINISH: BRUSHED STAINLESS, FLUSHED FLAT 2" OD BAR RAIL END CAP .8" H X 2" DIA. FINISH: BRUSHED STAINLESS, BAR FOOT RAIL TUBING 2" OD X 96" LENGTH, .05" WALL THICKNESS, FINISH: BRUSHED STAINLESS.	7" W X 6" CENTER POINT X 2" DIAMETER	PROVIDE SHOP DRAWING AND WALL BLOCKING
SPECIALTY	INTERIOR	P6	PAINT - STRUCTURAL COLUMNS	SHERWIN WILLIAMS	FIRETEX FX6010 THREE-COMPONENT INTUMESCENT COATING, TOPCOAT: BONDPLEX WATERBASED ACRYLIC, COLOR: WHITE ALUMINUM, LOCATION: EXPOSED STEEL COLUMNS, TOP COAT WHEN EXPOSED IN PUBLIC SPACES		CONTACT: FRED LAURO, 727-735-1643, FREDERICK.M.LAURO@SHERWIN.COM
TOILET PARTITIONS							
TOILET PARTITIONS	INTERIOR	TP1	TOILET PARTITIONS/ URINAL SCREENS		REFER TO TOILET ACCESSORY SCHEDULES		
TRANSITIONS							
TRANSITIONS	INTERIOR	TR1	TRANSITION - CARPET TO SEALED CONCRETE	SCHLUTER	RENO T, CONT. ALUMINUM TRANSITION PROFILE		CONTACT: MATT LONG, 407-795-0794, MLONG@SCHLUTER.COM
TRANSITIONS	INTERIOR	TR2	TRANSITION - TERRAZZO TO SEALED CONCRETE	SCHLUTER	RENO RAMP K, COLOR: SATIN ANODIZED ALUMINUM, COORDINATE WITH TERRAZZO THICKNESS		CONTACT: MATT LONG, 407-795-0794, MLONG@SCHLUTER.COM
TRANSITIONS	INTERIOR	TR3	TRANSITION - TERRAZZO TO CARPET	SCHLUTER	SCHLUTER DECO OR APPROVAL EQUAL, TYP.		CONTACT: MATT LONG, 407-795-0794, MLONG@SCHLUTER.COM
TRANSITIONS	INTERIOR	TR4	TRANSITION - TERRAZZO TO WALK OFF MAT	SCHLUTER	RENO T, CONT. ALUMINUM TRANSITION PROFILE		CONTACT: MATT LONG, 407-795-0794, MLONG@SCHLUTER.COM
TRANSITIONS	INTERIOR	TR5	TRANSITION - WALL TILE EDGE	SCHLUTER	STYLE: ROUNDED OUTSIDE CORNER, ITEM: RONDEC R0100AE, 100 (3/8"), FINISH: BRUSHED STAINLESS, AT ALL OUTSIDE CORNERS		CONTACT: MATT LONG, 407-795-0794, MLONG@SCHLUTER.COM
TRANSITIONS	INTERIOR	TR6	TRANSITION - TERRAZZO TO TERRAZZO	SCHLUTER	RENO T, CONT. ALUMINUM TRANSITION PROFILE		CONTACT: MATT LONG, 407-795-0794, MLONG@SCHLUTER.COM
TRANSITIONS	INTERIOR	TR7	TRANSITION - STAINED CONCRETE TO TERRAZZO	SCHLUTER	RENO RAMP K, COLOR: SATIN ANODIZED ALUMINUM, COORDINATE WITH TERRAZZO THICKNESS, PROTECT TRANSITION DURING POLISHING OF TERRAZZO		CONTACT: MATT LONG, 407-795-0794, MLONG@SCHLUTER.COM
WALL							
WALL	INTERIOR	AP1	ACRYLIC PANEL	SENSITILE	LUMINA, PATTERN: RANDOM, LIGHT POINT DENSITY: STANDARD (MEDIUM), GRAIN WIDTH: 3/8", CORE THICKNESS: 3/4", CLADDING THICKNESS: 1/8", CLADDING FINISH: FROSTED- CLEAR - CLEAR MIRROR - WHITE PROTECT, INTERLAYER: NONE, LIGHT EMISSION: FACE ONLY, LED COLORS: RGBW. COORDINATE MOTION ACTIVATED LIGHT WITH ELECTRICAL DRAWINGS.	1' W, 1-1/16" THICK	CONTACT: MOLLY GREEN, 313-872-6314 EXT. 106, ESTIMATING@SENSITILE.COM, SUBMIT SAMPLE FOR APPROVAL
WALL	INTERIOR	AP2	ACRYLIC PANEL	SENSITILE	LUMINA, PATTERN: RANDOM, LIGHT POINT DENSITY: STANDARD (MEDIUM), GRAIN WIDTH: 3/8", CORE THICKNESS: 3/4", CLADDING THICKNESS: 1/8", CLADDING FINISH: FROSTED- CLEAR - CLEAR MIRROR - WHITE PROTECT, INTERLAYER: NONE, LIGHT EMISSION: FACE ONLY, LED COLORS: RGBW. COORDINATE MOTION ACTIVATED LIGHT WITH ELECTRICAL DRAWINGS.	2' W, 1-1/16" THICK	CONTACT: MOLLY GREEN, 313-872-6314 EXT. 106, ESTIMATING@SENSITILE.COM, SUBMIT SAMPLE FOR APPROVAL
WALL	INTERIOR	AP3	ACRYLIC PANEL	SENSITILE	LUMINA, PATTERN: RANDOM, LIGHT POINT DENSITY: STANDARD (MEDIUM), GRAIN WIDTH: 3/8", CORE THICKNESS: 3/4", CLADDING THICKNESS: 1/8", CLADDING FINISH: FROSTED- CLEAR - CLEAR MIRROR - WHITE PROTECT, INTERLAYER: NONE, LIGHT EMISSION: FACE ONLY, LED COLORS: RGBW. COORDINATE MOTION ACTIVATED LIGHT WITH ELECTRICAL DRAWINGS.	3' W, 1-1/16" THICK	CONTACT: MOLLY GREEN, 313-872-6314 EXT. 106, ESTIMATING@SENSITILE.COM, SUBMIT SAMPLE FOR APPROVAL
WALL	INTERIOR	AP4	ACRYLIC PANEL	SENSITILE	LUMINA, PATTERN: RANDOM, LIGHT POINT DENSITY: STANDARD (MEDIUM), GRAIN WIDTH: 3/8", CORE THICKNESS: 3/4", CLADDING THICKNESS: 1/8", CLADDING FINISH: FROSTED- CLEAR - CLEAR MIRROR - WHITE PROTECT, INTERLAYER: NONE, LIGHT EMISSION: FACE ONLY, LED COLORS: RGBW. COORDINATE MOTION ACTIVATED LIGHT WITH ELECTRICAL DRAWINGS.	4' W, 1-1/16" THICK	CONTACT: MOLLY GREEN, 313-872-6314 EXT. 106, ESTIMATING@SENSITILE.COM, SUBMIT SAMPLE FOR APPROVAL
WALL	INTERIOR	CC1	COLUMN COVERS	ARMSTRONG	PLASTERFORM COLUMN COVERS, 2'-4" DIA. VERTICAL BUTT JOINT, CONFIRM COLUMN DIMENSION DUE TO VARIED SIZES.		CONTACT: BILL MENDEK, 904-652-6921,WJMENDEK@ARMSTRONGCEILINGS.COM
WALL	INTERIOR	CG1	CORNER GUARD - GENERAL OUTSIDE CORNERS	ACROVYN	WIDTH: 1' 1/2 LEGS X HEIGHT: 8'-0", GAUGE: 16, FLAT-HEAD COUNTERSUNK SCREWS THROUGH FACTORY DRILLED MOUNTING HOLES AND ADHESIVE, STAINLESS STEEL 304, PLACE AT ALL OUTSIDE CORNERS.	GAUGE: 14, LEG LENGTH: 1/2"	CONTACT: CLYDE COPELAND, 813-831-3344, CCOPELAND@CAS-CORP.COM
WALL	INTERIOR	DWC5B	ACRYLIC PANEL STANDOFFS	CR LAWRENCE	BRUSHED ALUMINUM STANDOFFS, 1" DIAMETER X 2" CYLINDER, 1/2" CAP		
WALL	INTERIOR	P1	PAINT - GENERAL	SHERWIN WILLIAMS	PROMAR 200 HP LG, B41-1900 SERIES, COLOR: ALABASTER SW 7008, FINISH: EG-SHEL		CONTACT: JOY BABUR, 407-694-7994, JOY.L.BABUR@SHERWIN.COM
WALL	INTERIOR	P2	PAINT - DOORS/FRAMES	SHERWIN WILLIAMS	PRO IND WB ALKYD URETHANE LS, B53-2250 SERIES, COLOR: SW 6002 ESSENTIAL GRAY, FINISH: SEMI-GLOSS		CONTACT: JOY BABUR, 407-694-7994, JOY.L.BABUR@SHERWIN.COM
WALL	INTERIOR	P3	PAINT - ACCENT	SHERWIN WILLIAMS	PROMART 200 HP LG, B41-1900 SERIES, COLOR: SW 6958 DYNAMIC BLUE, EG-SHEL		CONTACT: JOY BABUR, 407-694-7994, JOY.L.BABUR@SHERWIN.COM
WALL	INTERIOR	P4	METAL PAINT - COLUMNS - HISTORY WALL CORRIDOR, COLUMNS	SCUFFMASTER	COLOR: GOH 34320804, SOLID METAL FLAT FINISH: SM722, DURABILITY: 4200 SCRUBS, APPLICATION: SPRAY		CONTACT: LES COLE, 813-786-0678, LES.COLE@WOLFGORDON.COM
WALL	INTERIOR	P5	PAINT - GWB CEILING/SOFFITS	SHERWIN WILLIAMS	PRO IND MULTI-SURFACE ACRYLIC B66-1560 SERIES, COLOR: SW 7007 CEILING BRIGHT WHITE, FINISH: EG-SHEL		CONTACT: JOY BABUR, 407-694-7994, JOY.L.BABUR@SHERWIN.COM
WALL	INTERIOR	P6	PAINT - RESTROOM DOOR FRAMES	SHERWIN WILLIAMS	PRO IND WB ALKYD URETHANE, FINISH: SEMI-GLOSS, COLOR: SW 7006 EXTRA WHITE		CONTACT: JOY BABUR, 407-694-7994, JOY.L.BABUR@SHERWIN.COM
WALL	INTERIOR	P7	PAINT - DOORS/FRAMES	SHERWIN WILLIAMS	PRO IND WB ALKYD URETHANE LS, B53-2250 SERIES, COLOR: SW 6958 DYNAMIC BLUE, FINISH: SEMI-GLOSS		
WALL	INTERIOR	SF	STOREFRONT				

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North Carolina License Nos. 50073 *
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:	SG
DRAWN BY:	KS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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SEAL:

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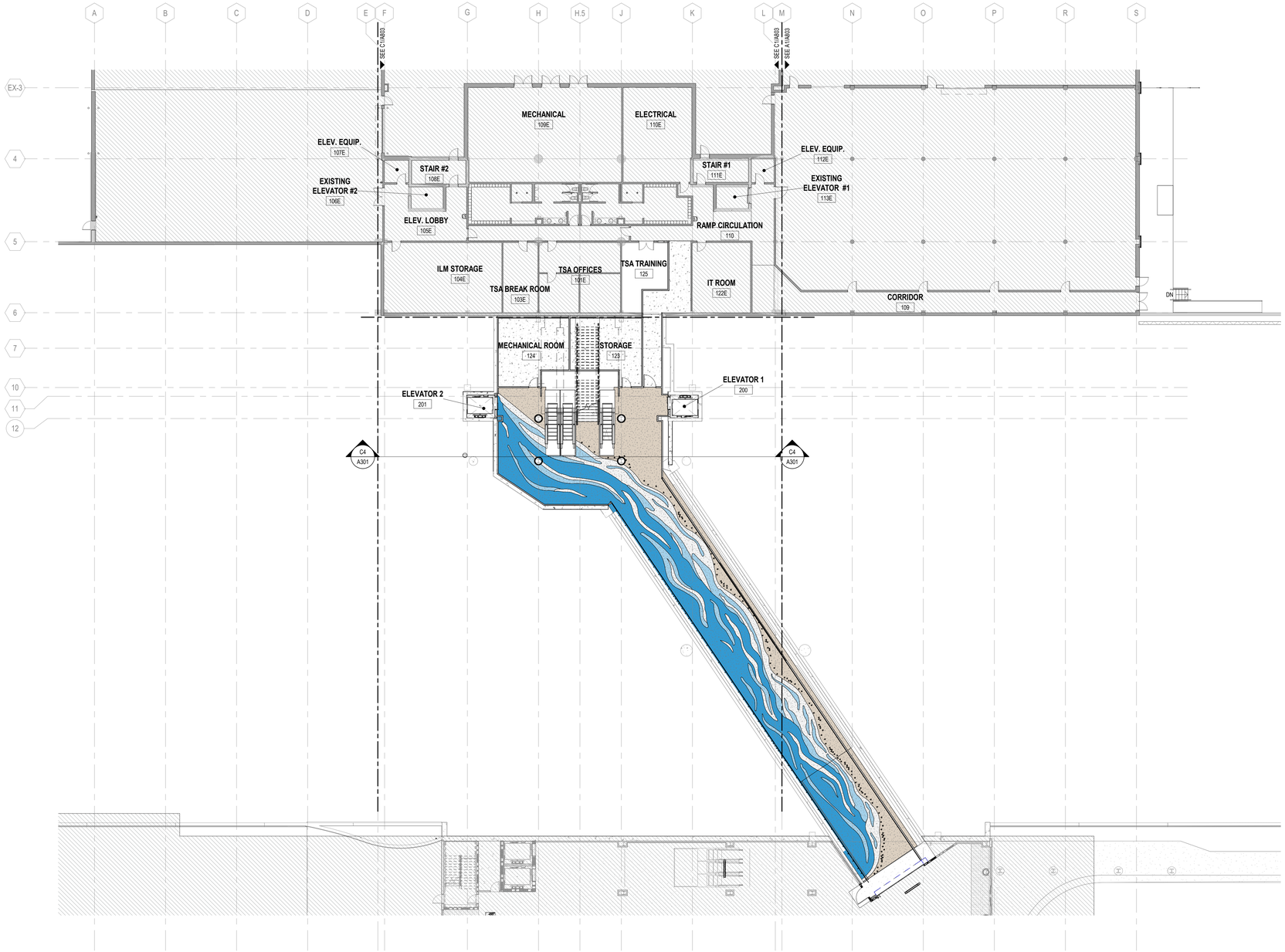
SHEET TITLE:
ROOM FINISH LEGEND AND NOTES

SHEET ID:
A610

PROJECT STATUS:
100% BID SET

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PN

N

A1 OVERALL RAMP LEVEL INTERIOR FINISH PLAN

SCALE: 1/16" = 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
- TER1: TERRAZO - DARK BLUE
- TER2: TERRAZO - LIGHT BLUE
- TER3: TERRAZO - GENERAL
- TER4: TERRAZO - SAND
- EPX: CLEAR EPOXY
- SC1: SEALED CONCRETE
- WOM1: WALKOFF MAT
- WOM2: 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.

16 0 16 32

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

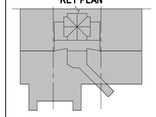
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North Carolina License Nos. 50073 *
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ILM

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:	SS
DESIGNED BY:	FG
PROJECT NUMBER:	

1003-0070-004

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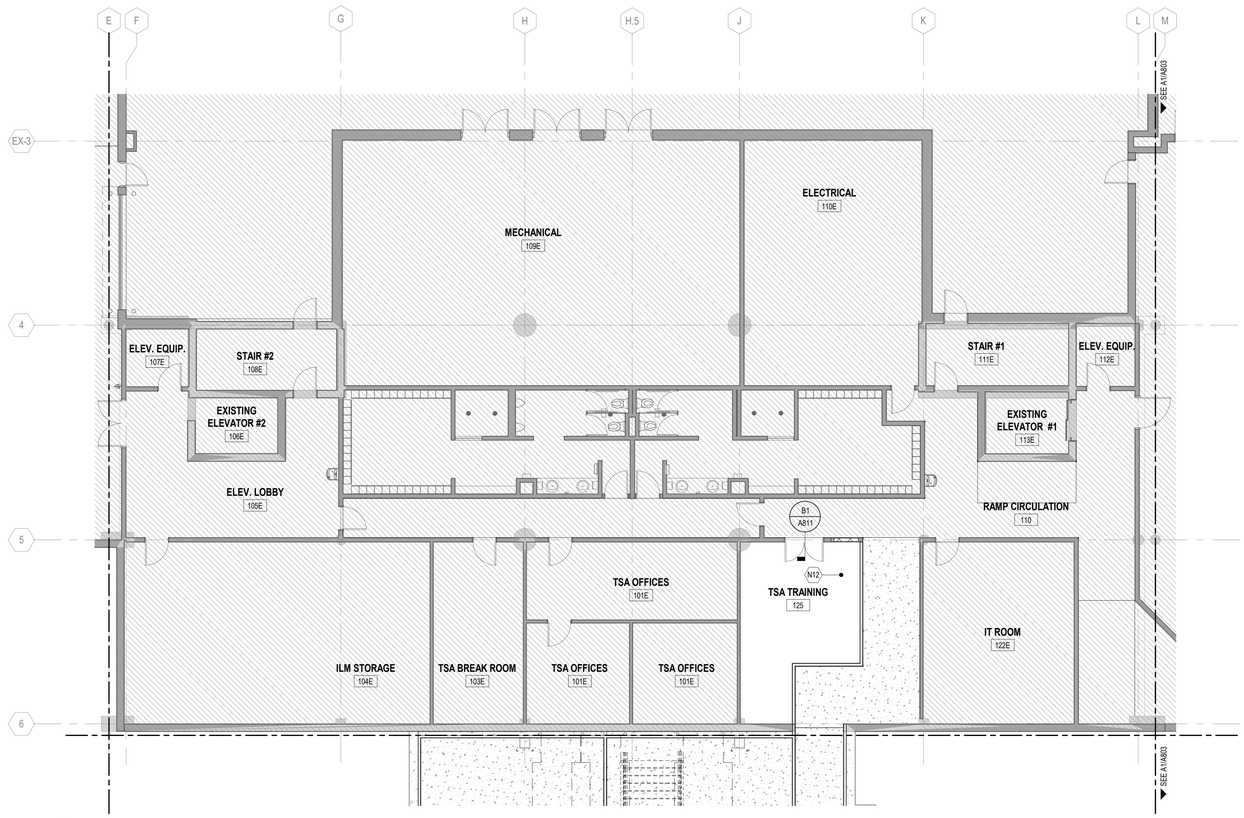
SHEET TITLE:
OVERALL RAMP LEVEL INTERIOR FINISH PLAN

SHEET ID:
A801

PROJECT STATUS:
100% BID SET

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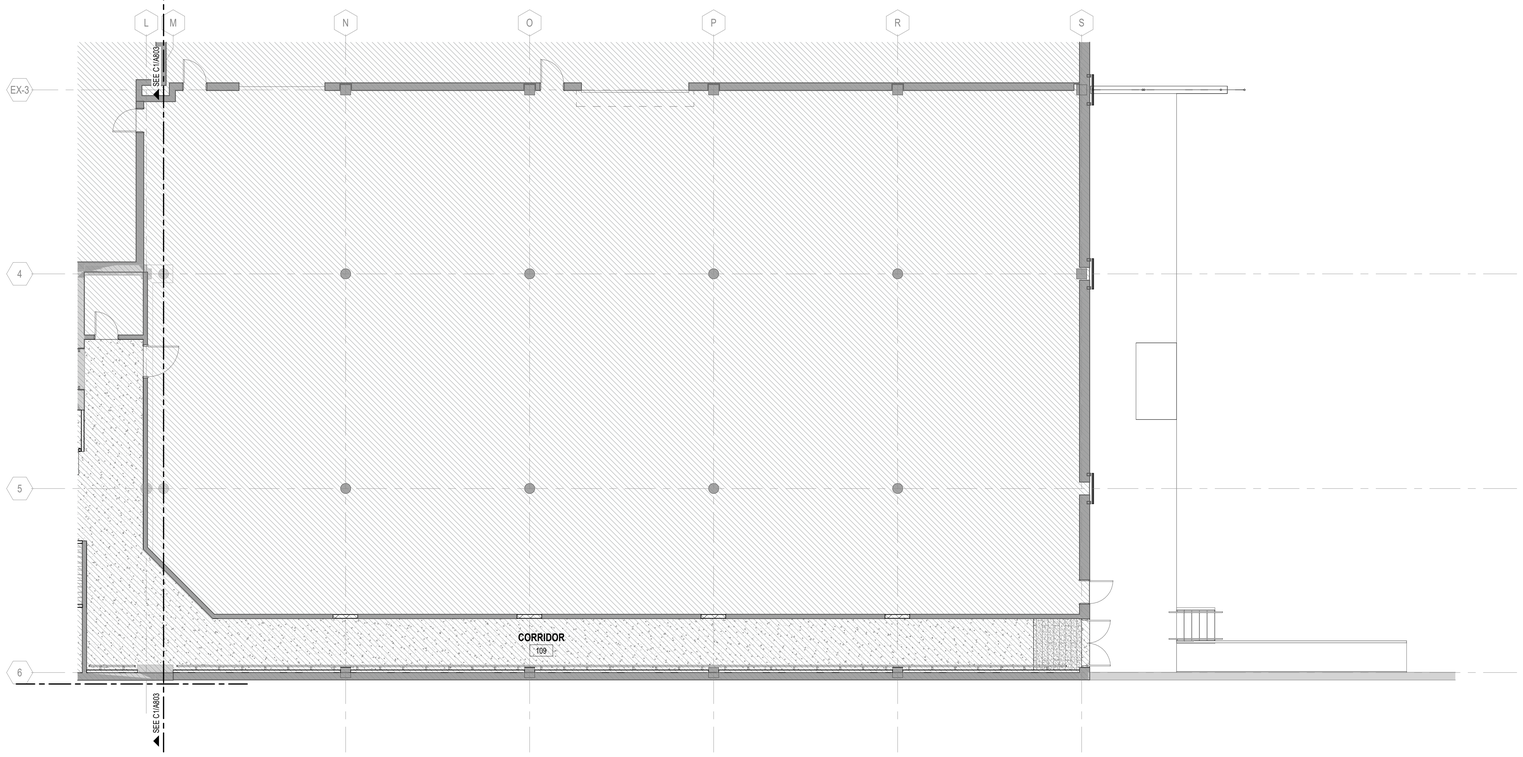


PN

N

C1 PARTIAL RAMP LEVEL INTERIOR FINISH PLAN - AREA B

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



PN

N

A1 PARTIAL RAMP LEVEL INTERIOR FINISH PLAN - AREA C

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

NEW WORK KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
N12	CONTRACTOR TO MATCH COLOR, TYPE, HEIGHT OF NEW FLOOR PORTION WITH EXISTING FLOOR.

GENERAL INTERIOR FINISH NOTES

AREA LEGEND

NO WORK IN AREA. U.N.O.

REFER TO VOLUME 1 PACKAGE

GENERAL

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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.
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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

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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
- TER1: TERRAZO - DARK BLUE
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- TER3: TERRAZO - GENERAL
- TER4: TERRAZO - SAND
- EPX: CLEAR EPOXY
- SC1: SEALED CONCRETE
- WOM1: WALKOFF MAT
- WOM2: 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.

8 0 8 16

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

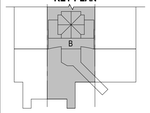
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ILM

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: SG
DRAWN BY: SS
DESIGNED BY: FG
PROJECT NUMBER: 1003-0070-004

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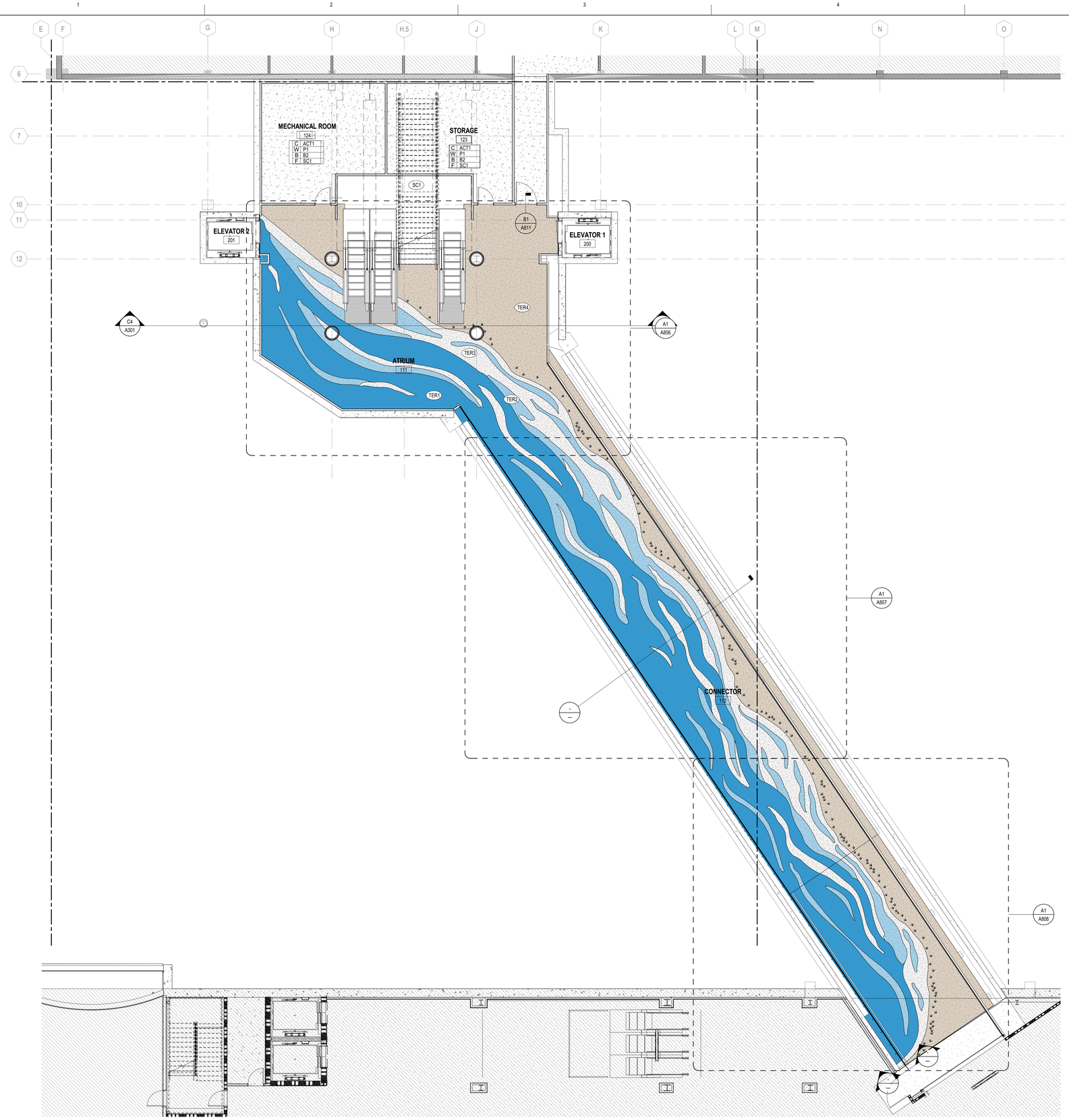
SHEET TITLE:
PARTIAL RAMP LEVEL INTERIOR FINISH PLAN - AREA B & AREA C

SHEET ID:
A803

PROJECT STATUS:
100% BID SET

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A1 PARTIAL RAMP LEVEL FINISH PLAN - CONNECTOR

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 8"X8" 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
- TER1: TERRAZO - DARK BLUE
- TER2: TERRAZO - LIGHT BLUE
- TER3: TERRAZO - GENERAL
- TER4: TERRAZO - SAND
- EPX: CLEAR EPOXY
- SC1: SEALED CONCRETE
- WOM1: WALKOFF MAT
- WOM2: WALKOFF MAT

GENERAL SHEET NOTES

1. REFER TO A610 ROOM FINISH SCHEDULE, LEGEND, AND NOTES.
2. REFER TO A810 FOR TRANSITION DETAILS.
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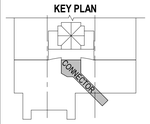
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ILM

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:	SS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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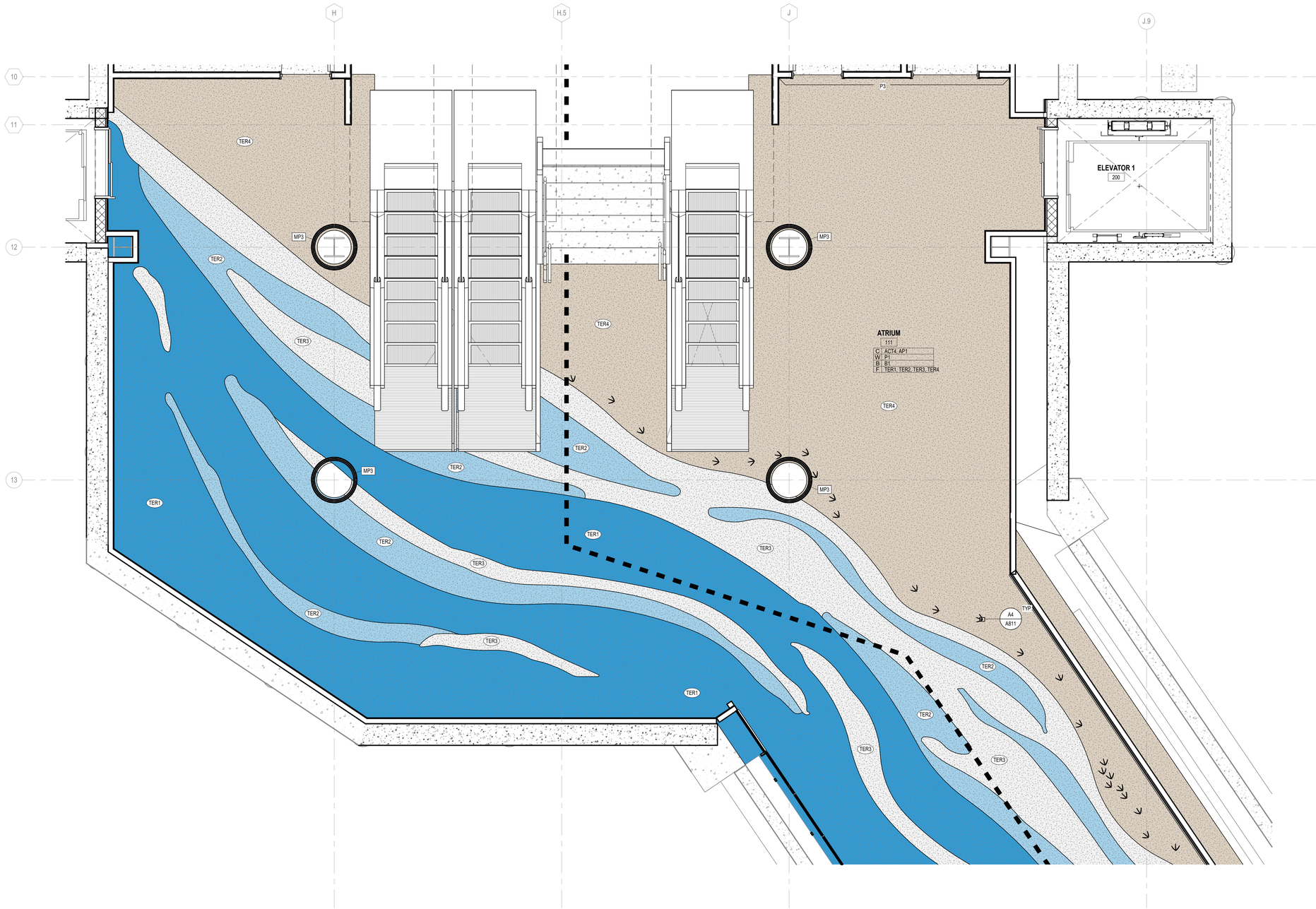
SHEET TITLE:
PARTIAL RAMP LEVEL FINISH PLAN - CONNECTOR

SHEET ID:
A805

PROJECT STATUS:
100% BID SET

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PN

N

A1 ENLARGED RAMP LEVEL TERRAZO PLAN - NORTH

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

2 0 2 4 6

SCALE: 3/8" = 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.
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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.
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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.
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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

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ELECTRICAL

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FINISH PLAN LEGEND & SHEET NOTES

FLOORING TYPES LEGEND

- CPT1: CARPET CUSTOM GRAPHIC
- TERR: TERRAZO TO MATCH EXISTING
- TER1: TERRAZO - DARK BLUE
- TER2: TERRAZO - LIGHT BLUE
- TER3: TERRAZO - GENERAL
- TER4: TERRAZO - SAND
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- SC1: SEALED CONCRETE
- WOM1: WALKOFF MAT
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GENERAL SHEET NOTES

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6. SEE SHEETS A401 AND A402 FOR RESTROOM FINISH INFORMATION AND DETAILS.

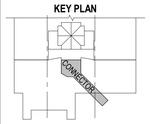
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ILM

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:	SS
DESIGNED BY:	FG

PROJECT NUMBER:
1003-0070-004

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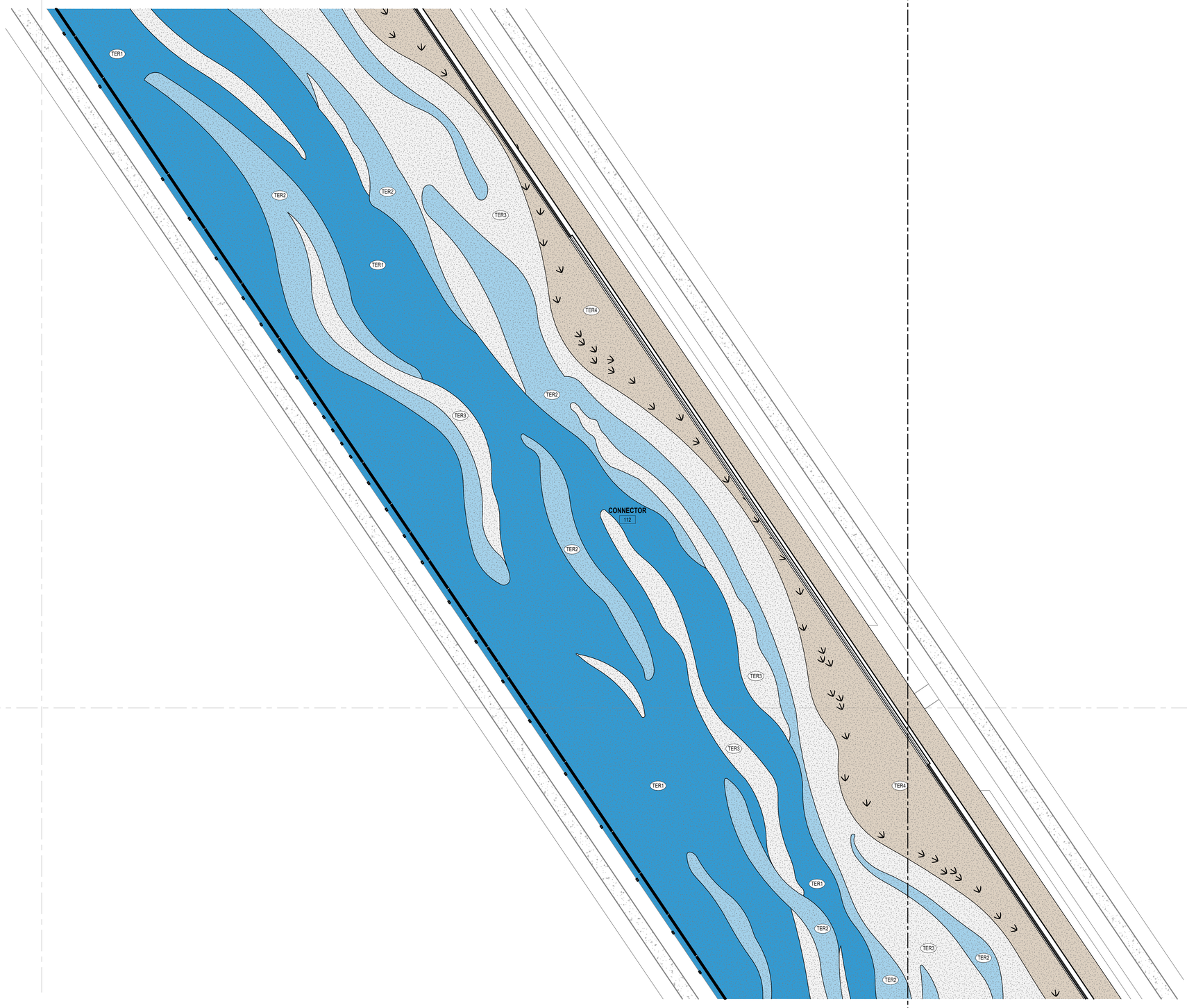
SHEET TITLE:
ENLARGED RAMP LEVEL FINISH PLAN - CONNECTOR

SHEET ID:
A806

PROJECT STATUS:
100% BID SET

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A1 ENLARGED CONNECTOR TERRAZZO PLAN

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

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

GENERAL INTERIOR FINISH NOTES

AREA LEGEND

NO WORK IN AREA, U.N.O.

REFER TO VOLUME 1 PACKAGE

GENERAL

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ELEVATORS

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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
- TER1: TERRAZO - DARK BLUE
- TER2: TERRAZO - LIGHT BLUE
- TER3: TERRAZO - GENERAL
- TER4: TERRAZO - SAND
- EPX: CLEAR EPOXY
- SC1: SEALED CONCRETE
- WOM1: WALKOFF MAT
- WOM2: 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.

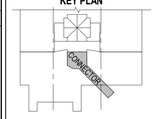
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F-0493 * C-28

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:	SS
DESIGNED BY:	FG
PROJECT NUMBER:	1003-0070-004

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SEAL:

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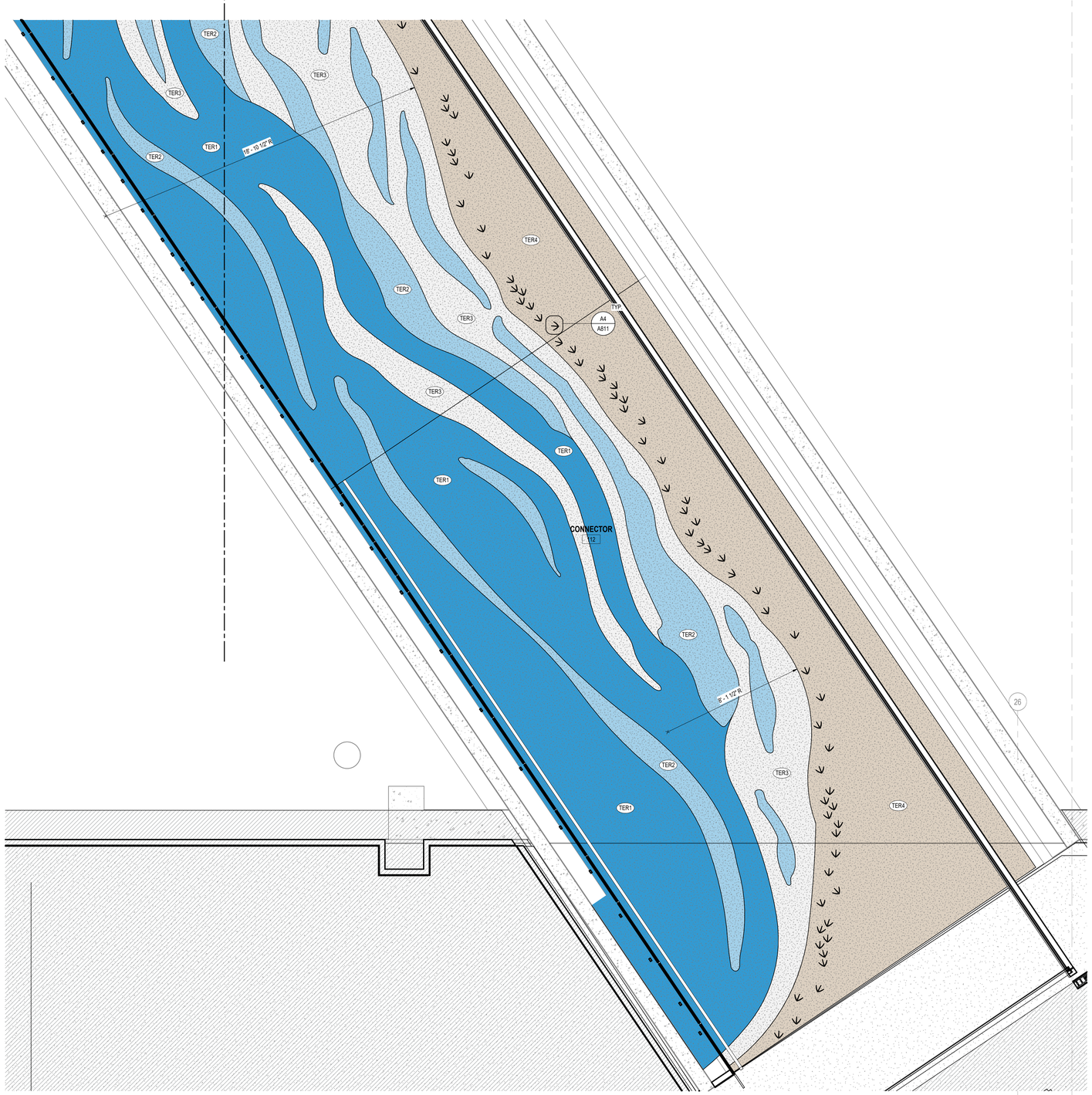
SHEET TITLE:
ENLARGED RAMP LEVEL FINISH PLAN - CONNECTOR

SHEET ID:
A807

PROJECT STATUS:
100% BID SET

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PN

N

A1 ENLARGED RAMP LEVEL TERRAZZO PLAN - SOUTH

SCALE: 3/8" = 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
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GENERAL SHEET NOTES

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2 0 2 4 6

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

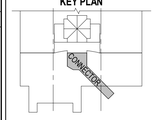
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F-0493 * C-28

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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

PROJECT NUMBER:
1003-0070-004

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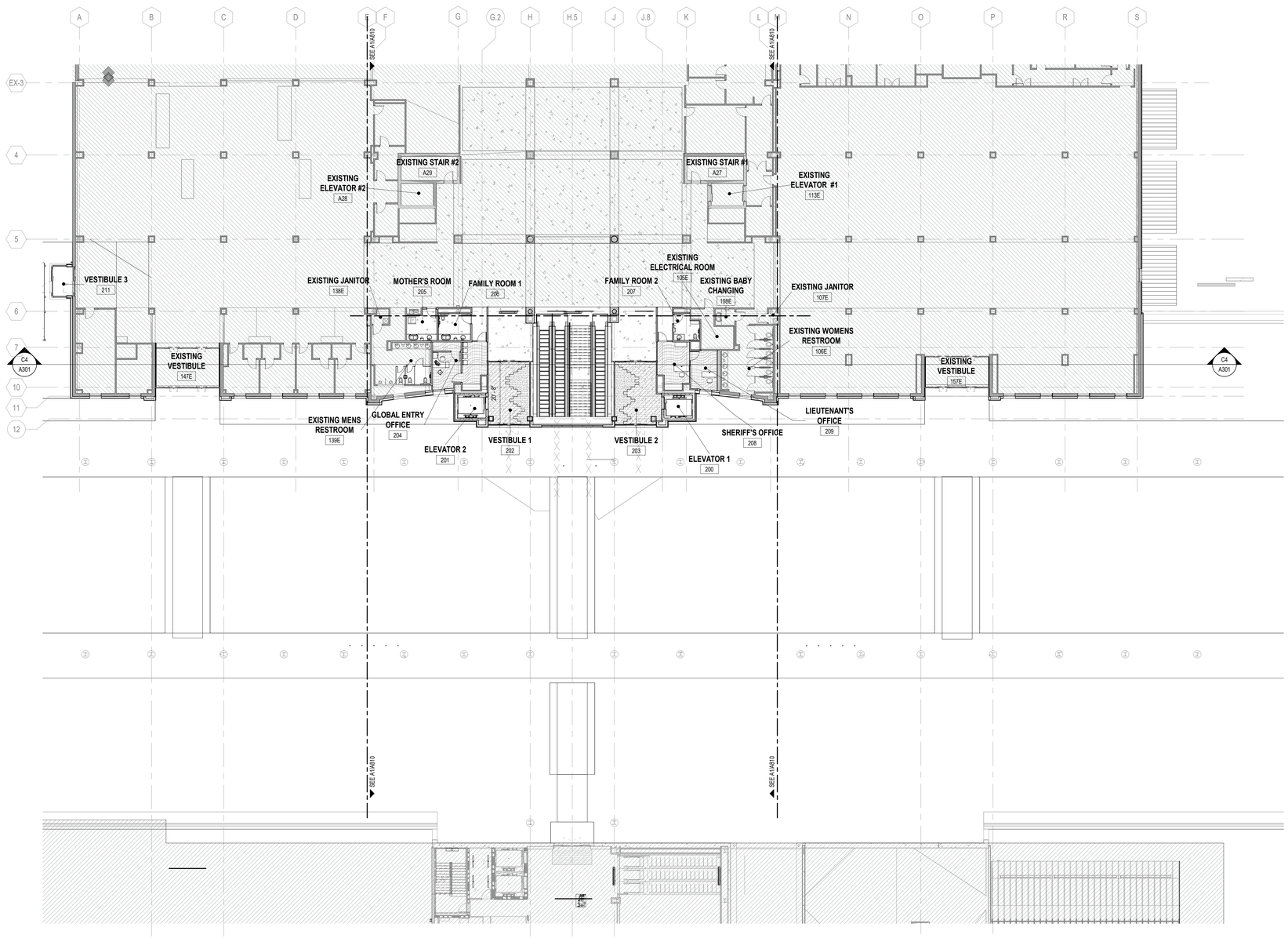
SHEET TITLE:
ENLARGED RAMP LEVEL FINISH PLAN - CONNECTOR

SHEET ID:
A808

PROJECT STATUS:
100% BID SET

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PN

N

A1 OVERALL TICKET LEVEL FINISH PLAN

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

16 0 16 32

SCALE: 1/16" = 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.
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4. ALL WALLS ARE TO BE PAINTED WITH P1, UNLESS NOTED OTHERWISE.
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7. USE LOW VOC'S FOR ALL PAINTS, PRIMERS, AND ADHESIVES.
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9. PROVIDE REQUIRED BLOCKING AT WALL HUNG CABINETRY, TV MONITORS, AND DRY ERASE BOARDS.
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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
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CEILINGS

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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
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- TER2: TERRAZO - LIGHT BLUE
- TER3: TERRAZO - GENERAL
- TER4: TERRAZO - SAND
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GENERAL SHEET NOTES

1. REFER TO A610 ROOM FINISH SCHEDULE, LEGEND, AND NOTES.
2. REFER TO A810 FOR TRANSITION DETAILS.
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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: SS
DESIGNED BY: FG
PROJECT NUMBER: 1003-0070-004

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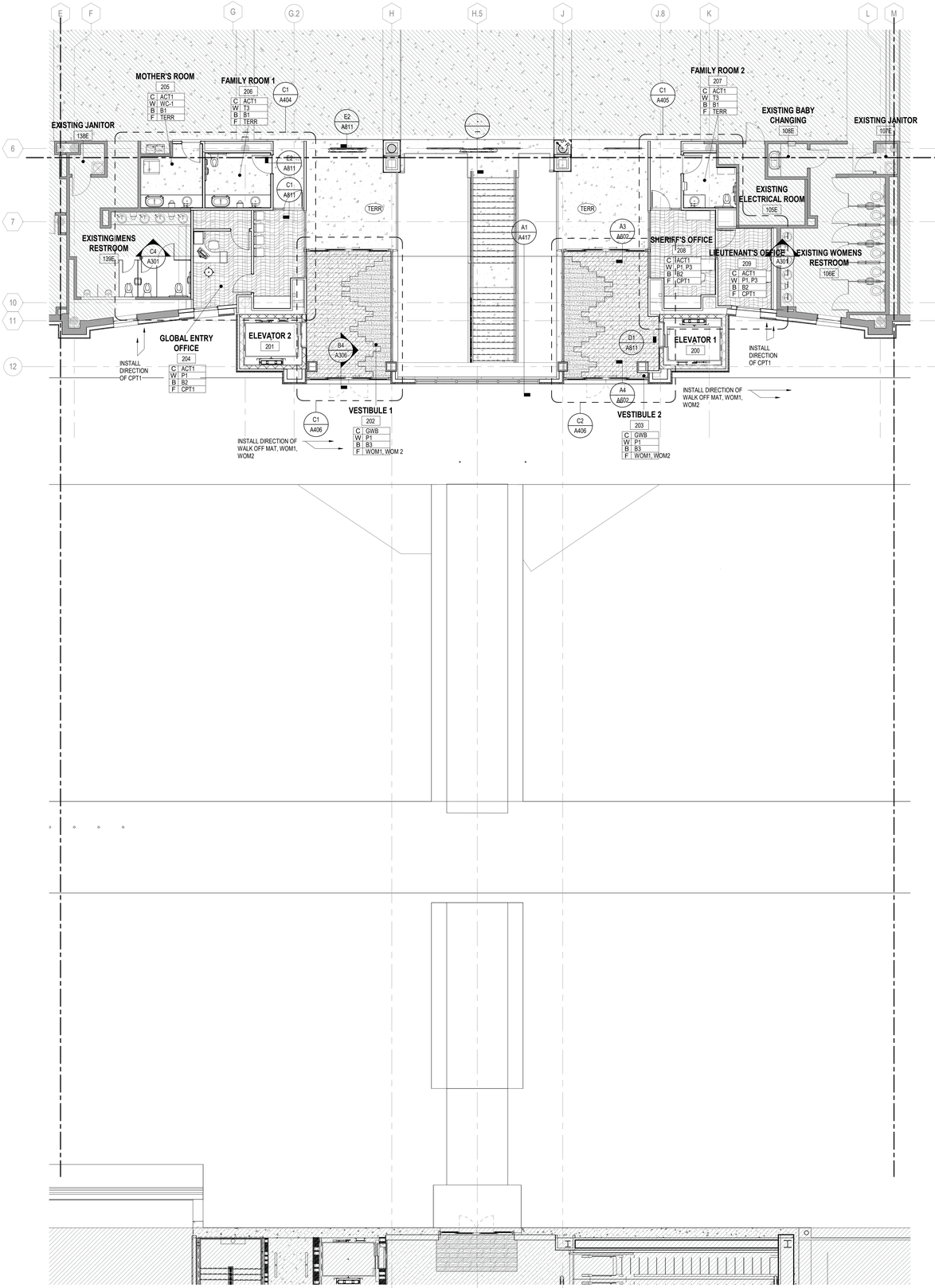
SHEET TITLE:
OVERALL TICKET LEVEL INTERIOR FINISH PLAN

SHEET ID:
A809

PROJECT STATUS:
100% BID SET

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PN

N

A1

PARTIAL TICKETING LEVEL FINISH PLAN - AREA B

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.
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MILLWORK

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CEILINGS

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ELEVATORS

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

ELECTRICAL

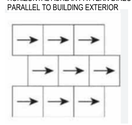
1. COORDINATE SPECIALTY ITEMS WITH ELECTRICAL ENGINEERING SHEETS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: ACRYLIC BACKLIT PANELS, COLUMNS INCLUDING LIGHTING, ELEVATOR CAB INTERIORS, MILLWORK.

FINISH PLAN LEGEND & SHEET NOTES

FLOORING TYPES LEGEND

- CPT1: CARPET CUSTOM GRAPHIC
- TERR: TERRAZO TO MATCH EXISTING
- TER1: TERRAZO - DARK BLUE
- TER2: TERRAZO - LIGHT BLUE
- TER3: TERRAZO - GENERAL
- TER4: TERRAZO - SAND
- EPX: CLEAR EPOXY
- SC1: SEALED CONCRETE
- WOM1: WALKOFF MAT
- WOM2: WALKOFF MAT

WALK OFF MAT: WOM1, WOM2
HORIZONTAL ASHLAR PATTERN DIRECTION PARALLEL TO BUILDING EXTERIOR



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.

8 0 8 16

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

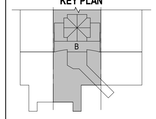
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F-0493 * C-28

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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

PROJECT NUMBER:
1003-0070-004

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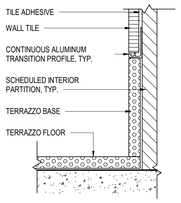
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PARTIAL TICKETING LEVEL FINISH PLAN - AREA B

SHEET ID:
A810

PROJECT STATUS:
100% BID SET

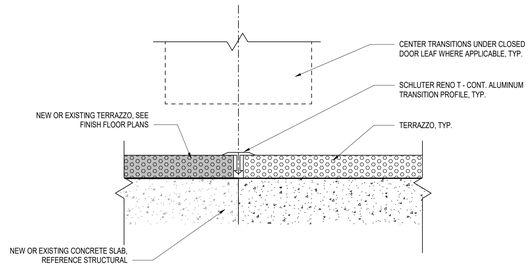
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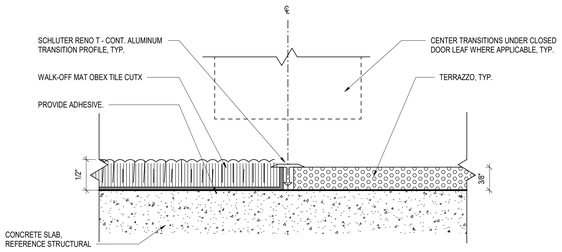
E1 TR5 - WALL TILE TERMINATION

SCALE: 6" = 1'-0"



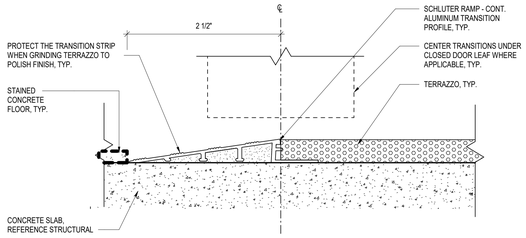
E2 TR6 TERRAZZO TRANSITION

SCALE: 12" = 1'-0"



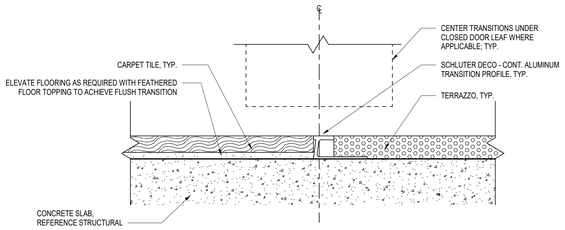
D1 TR4 - TERRAZZO TO INTERIOR WALK OFF MAT

SCALE: 12" = 1'-0"



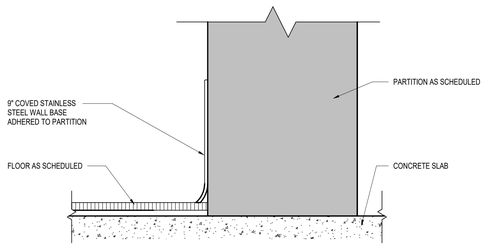
D2 TR7 - TERRAZZO TO STAINED CONCRETE

SCALE: 12" = 1'-0"



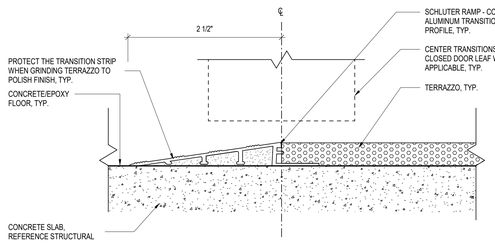
C1 TR3 - TERRAZZO TO CARPET

SCALE: 12" = 1'-0"



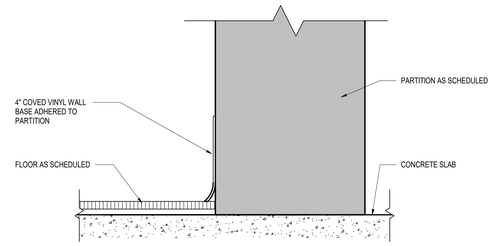
C2 B3 - STAINLESS STEEL BASE DETAIL

SCALE: 6" = 1'-0"



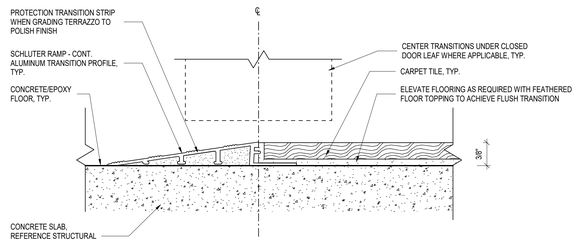
B1 TR2 - TERRAZZO TO SEALED CONCRETE

SCALE: 12" = 1'-0"



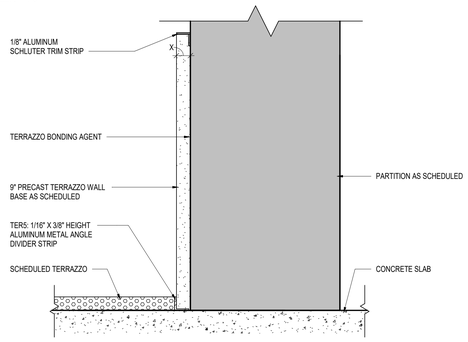
B2 B2 - VINYL BASE DETAIL

SCALE: 6" = 1'-0"



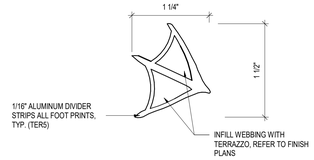
A1 TR1 - CARPET TO SEALED CONCRETE

SCALE: 12" = 1'-0"



A2 B1 - TERRAZZO BASE DETAIL

SCALE: 6" = 1'-0"



A4 TERRAZZO DETAIL - BIRD PRINT

SCALE: 12" = 1'-0"

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.

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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: SS
DESIGNED BY: FG
PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:
FLOOR FINISH TRANSITION DETAILS

SHEET ID:
A811

PROJECT STATUS:
100% BID SET

SCALE: 1" = 1'-0"

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FURNITURE NOTES & LEGEND

1. FURNITURE SHOWN FOR REFERENCE ONLY TO BE PROVIDED BY OWNER

CH-1: MOTHERS ROOM CHAIR

CH-2: OFFICE CHAIR

CH-3: WAITING AREA CHAIR

STL-1: STOOL

BCH-1: HAND CUFF BENCH

DSK-1: DESK

DSK-2: MODULAR DESK WITH WALL CABINETS

TV-1: WALL MOUNTED MONITOR

BKG-1: CHANGING BACKGROUND

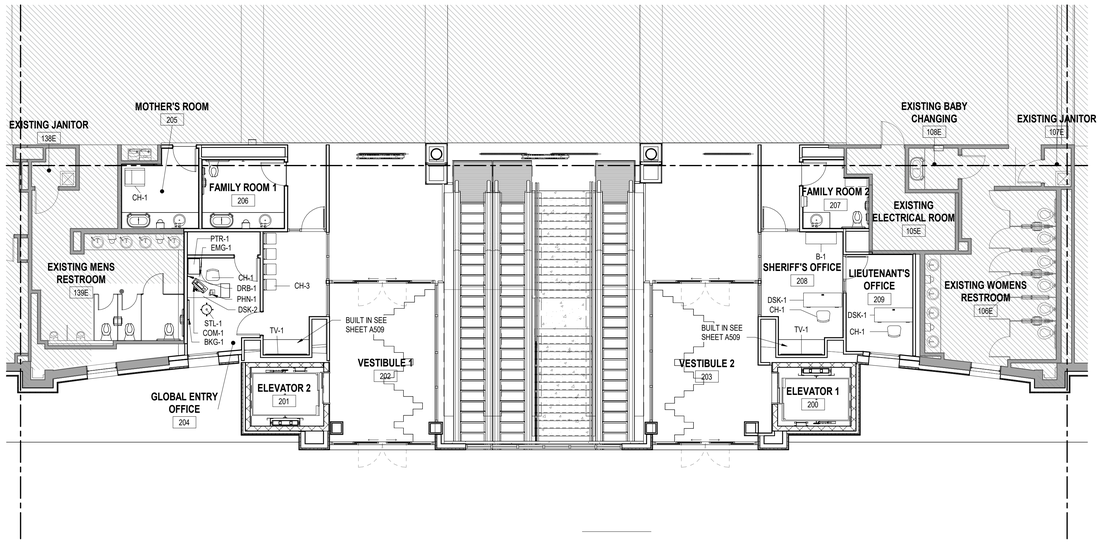
PRT-1: PRINTER

COM-1: COMPUTER

PHN-1: PHONE

DRB-1: DOOR RELEASE BUTTON

EMG-1: EMERGENCY BUTTON



PN

A1 PARTIAL TICKETING LEVEL FUNITURE PLAN - AREA B

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

8 0 8 16

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

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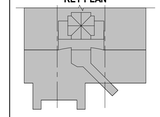
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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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

PROJECT NUMBER:
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SHEET TITLE:

OVERALL TICKETING LEVEL FURNITURE PLAN

SHEET ID:

A812

PROJECT STATUS:
100% BID SET

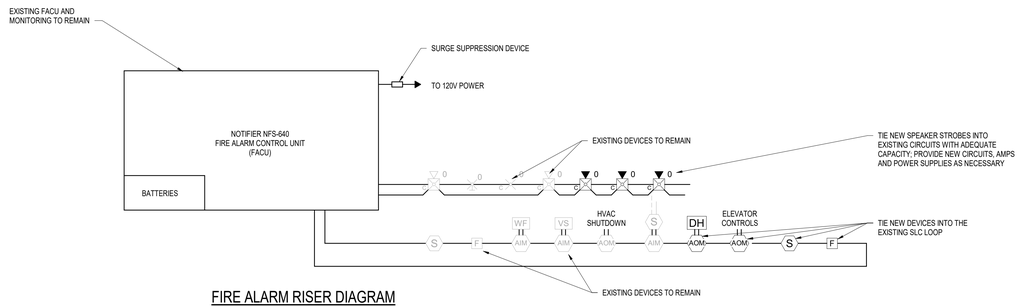
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FIRE ALARM GENERAL NOTES

1. MODIFY THE EXISTING NOTIFIER FIRE ALARM VOICE EVACUATION SYSTEM IN ACCORDANCE WITH NFPA 72 AND THE CONTRACT DOCUMENTS. EXISTING DEVICES MAY BE RELOCATED WHERE APPLICABLE.
2. NEW CIRCUITS SHALL MATCH EXISTING. PROVIDE CLASS B NOTIFICATION CIRCUITS AS A MINIMUM. TIE INTO THE EXISTING SLC LOOPS IN ACCORDANCE WITH NFPA 72.
3. THE SPEAKER LAYOUT MUST BE EVALUATED TO ENSURE THE AUDIBILITY AND INTELLIGIBILITY REQUIREMENTS NFPA 72 ARE MET. DRAWINGS INDICATE ADDITIONAL SPEAKERS IN SOME OF THE LARGER AREAS; FINAL QUANTITY AND LOCATION OF SPEAKERS REQUIRED FOR INTELLIGIBILITY MUST BE DESIGNED AND INDICATED ON THE FIRE ALARM SHOP DRAWINGS.
4. THE EXISTING FIRE ALARM CONTROL UNIT (FACU) IS A NOTIFIER NFS-640.
5. ADD ADDITIONAL CIRCUITS, AMPS AND/OR POWER SUPPLIES AS NECESSARY.
6. COORDINATE ELEVATOR CONTROLS AND DEVICES WITH ELEVATOR MANUFACTURER AND SPRINKLER CONTRACTOR. PROVIDE ELEVATOR RECALL. PROVIDE SMOKE DETECTOR, HEAT DETECTOR, AND SHUNT TRIP WHERE SPRINKLERS ARE PROVIDED IN THE MACHINE SPACE.
7. PROVIDE DOOR HOLD OPEN DEVICE(S) AND SMOKE DETECTORS AT THE TUNNEL FIRE BARRIER; QUANTITIES OF DEVICES TO BE COORDINATED WITH FINAL CONFIGURATION. DOOR HOLD OPEN DEVICES SHALL RELEASE UPON ACTIVATION OF SMOKE DETECTORS AND FIRE ALARM SYSTEM.

FIRE ALARM LEGEND

C 0	FIRE ALARM SPEAKER/STROBE WITH CANDELA RATING
S	SMOKE DETECTOR
F	MANUAL PULL STATION
DH	DOOR HOLD OPEN DEVICE
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE



FIRE ALARM RISER DIAGRAM

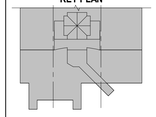
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WILMINGTON, NC 28405

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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FIRE ALARM GENERAL NOTES AND LEGENDS

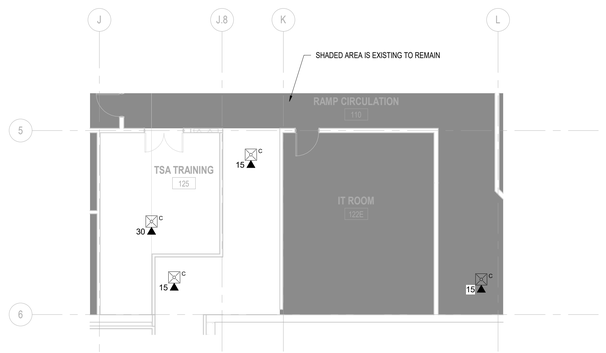
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FA001

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1 PARTIAL FIRE ALARM PLAN - RAMP LEVEL AREA B

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

8 0 8 16

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

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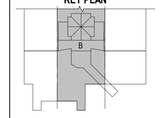
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KEY PLAN



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

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PARTIAL RAMP LEVEL FIRE ALARM PLAN - AREA B

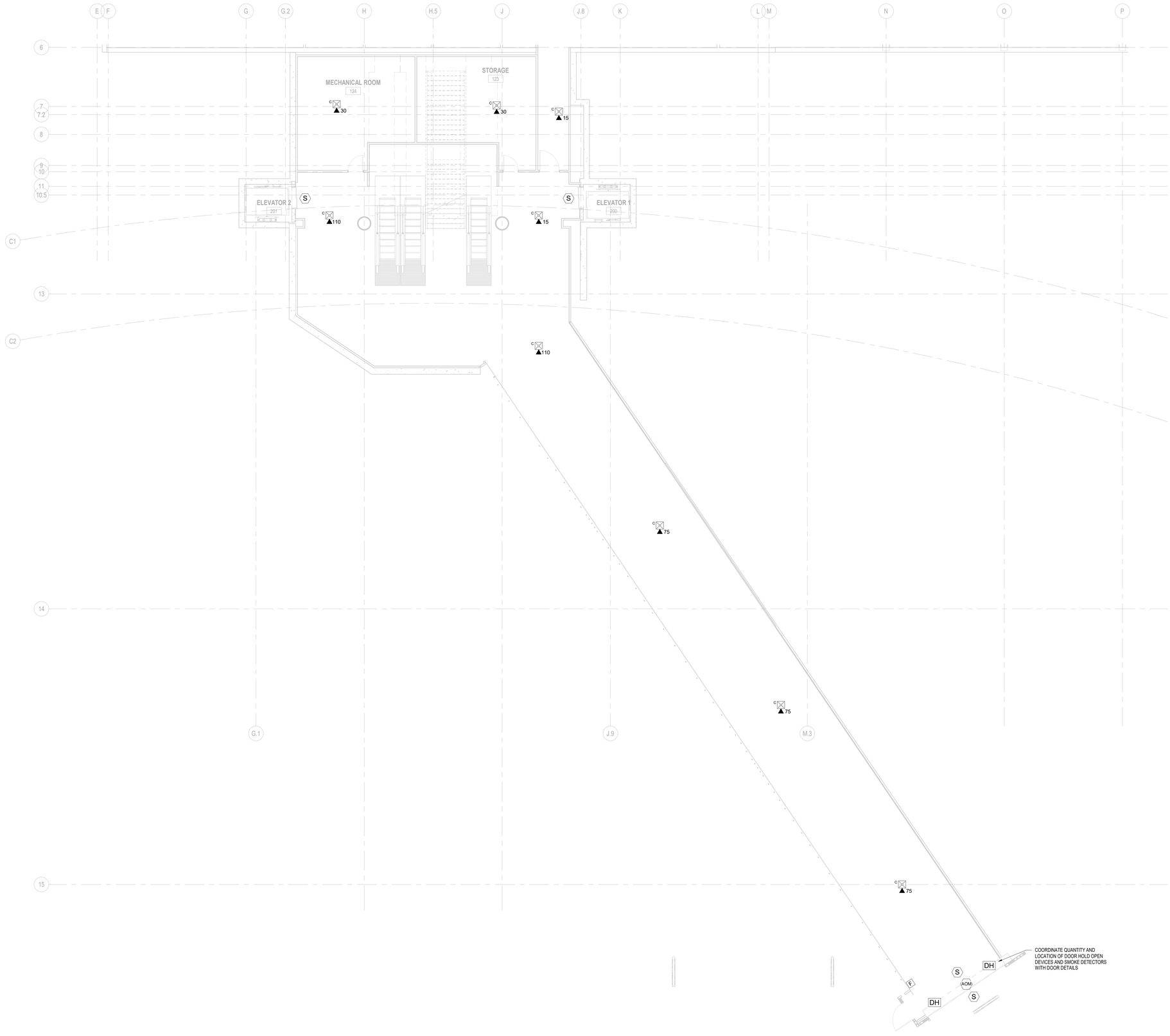
SHEET ID:

FA102

PROJECT STATUS:
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1 PARTIAL FIRE ALARM PLAN - RAMP LEVEL CONNECTOR

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

8 0 8 16

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

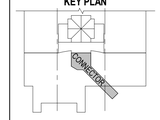
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KEY PLAN



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DATE ISSUED:	02/14/2025
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DRAWN BY:	SVL
DESIGNED BY:	SVL

PROJECT NUMBER:
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SHEET TITLE:

PARTIAL RAMP LEVEL FIRE ALARM PLAN - CONNECTOR

SHEET ID:

FA103

PROJECT STATUS:
100% BID SET

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PN

1 FIRE ALARM PLAN - TICKET LEVEL BASE BID

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

8 0 8 16

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

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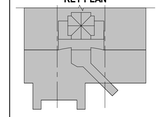
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ILM

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KEY PLAN



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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 - BASE BID

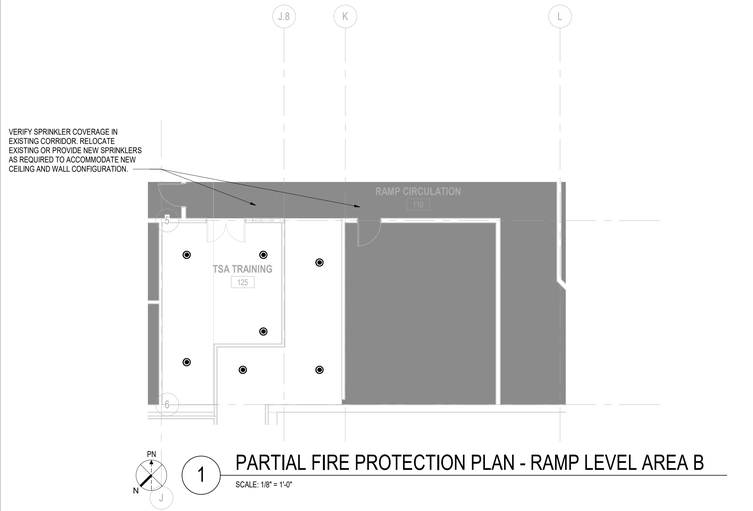
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1 PARTIAL FIRE PROTECTION PLAN - RAMP LEVEL AREA B

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

FIRE PROTECTION GENERAL NOTES

1. SUBMIT WORKING DRAWINGS TO THE FIRE MARSHAL FOR APPROVAL FOR THE AUTOMATIC SPRINKLER SYSTEM.
2. PROVIDE DESIGN AND ALL NECESSARY COMPONENTS TO MODIFY EXISTING AUTOMATIC SPRINKLER SYSTEMS TO PROVIDE FOR A COMPLETE AND OPERATIONAL SYSTEM THROUGHOUT THE RENOVATED AREA AND NEW BUILDING ADDITIONS IN ACCORDANCE WITH THE 2024 NORTH CAROLINA STATE BUILDING AND FIRE CODES, NFPA 13 (2019), AND LOCAL REQUIREMENTS. ALL COMPONENTS MUST BE LISTED AND/OR APPROVED FOR USE IN AUTOMATIC FIRE PROTECTION SYSTEMS.
3. ALL PIPING MUST BE ASTM A53, A135 OR A795 BLACK STEEL PIPE. PROVIDE SCHEDULE 40 PIPE FOR THREADED, WELDED AND GROOVED FITTINGS. SCHEDULE 10 PIPE MAY BE USED FOR WELDED AND ROLLED GROOVE FITTINGS.
4. ALL PIPING MUST BE DESIGNED AND INSTALLED TO PERMIT SYSTEM DRAINAGE IN ACCORDANCE WITH NFPA 13. ALL DRAINS SERVING MORE THAN 5 GALLONS MUST BE PIPED TO THE OUTSIDE. PROVIDE AUXILIARY DRAINS AT ALL LOW POINTS SERVING LESS THAN 5 GALLONS IN ACCORDANCE WITH NFPA 13.
5. PROVIDE NEW RISER IN EXISTING MECHANICAL ROOM TO SERVE THE NEW RAMP LEVEL TUNNEL (BASE BID) IN ACCORDANCE WITH NFPA 13.
6. RELOCATE AND/OR PROVIDE NEW SPRINKLERS AS REQUIRED IN RENOVATED AREAS AND CONNECT TO EXISTING BRANCH LINES.
7. INSTALL SPRINKLERS CENTERED IN CEILING TILES IN BOTH DIRECTIONS, IN UNIFORM PATTERNS, AND CENTERED WITH RESPECT TO LIGHTS, DIFFUSERS, AND OTHER CEILING SYSTEMS. PROVIDE THE FOLLOWING SPRINKLER TYPES:
   A. PROVIDE CONCEALED PENDENT, QUICK RESPONSE, K-5.6 MINIMUM IN ALL OFFICES AND PUBLIC AREAS. PROVIDE FACTORY PAINTED WHITE COVER PLATE.
   B. PROVIDE UPRIGHT SPRINKLERS, QUICK RESPONSE, K-5.6 MINIMUM IN ALL AREAS WITHOUT CEILINGS.
8. PROVIDE HANGERS AND SUPPORTS IN ACCORDANCE WITH NFPA 13. HANGERS MUST BE ATTACHED TO TOP FLANGE OF STEEL JOISTS AND BEAMS. PROVIDE SEISMIC BRACING IN ACCORDANCE WITH NFPA 13.
9. OFFICES, RESTROOMS, CIRCULATION AREAS, AND SIMILAR SPACES ARE LIGHT HAZARD. STORAGE ROOMS (STORAGE HEIGHT < 12 FT.), JANITOR CLOSETS, EQUIPMENT ROOMS AND SIMILAR SPACES ARE ORDINARY HAZARD GROUP 1.
10. PROVIDE HYDRAULIC CALCULATIONS WHERE REQUIRED. SYSTEMS SHALL BE DESIGNED TO PROVIDE 0.10 AND 0.15 GPM/SQ. FT. OVER THE HYDRAULICALLY MOST REMOTE 1,500 SQ. FT. AREA FOR LIGHT AND ORDINARY HAZARD AREAS RESPECTIVELY, EXCEPT WHERE DESIGN AREA REDUCTIONS ARE PERMITTED FOR QUICK RESPONSE SPRINKLERS IN ACCORDANCE WITH NFPA 13. MAXIMUM SPRINKLER SPACING FOR STANDARD SPRAY SPRINKLERS MUST NOT EXCEED 15 FEET BETWEEN SPRINKLERS, AND 225 SQ. FT. OR 130 SQ. FT. PER SPRINKLER FOR LIGHT AND ORDINARY HAZARD AREAS RESPECTIVELY. EXTENDED COVERAGE SPRINKLERS MUST BE INSTALLED IN ACCORDANCE WITH THE SPRINKLER LISTING AND SPACING MUST NOT EXCEED 20 FT. BY 20 FT. IN ACCORDANCE WITH NFPA 13.
11. THE EXISTING BUILDING IS SERVED BY AN EXISTING FIRE PUMP. BASE ALL HYDRAULIC CALCULATIONS ON THE MOST RECENT ANNUAL FIRE PUMP FLOW TEST RESULTS.
12. COORDINATE ALL PIPING AND SPRINKLERS WITH OTHER TRADES. SPRINKLERS AND PIPING MUST NOT BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.
13. PROVIDE AUTOMATIC AIR RELEASE AND AUTOMATIC PRESSURE RELIEF VALVES ON NEW WET-PIPE RISER IN ACCORDANCE WITH NFPA 13 AND MANUFACTURER'S RECOMMENDATIONS. DISCHARGE OF BOTH VALVES MUST BE PIPED TO THE OUTSIDE, A SYSTEM DRAIN, OR AN ADEQUATELY SIZED EQUIPMENT ROOM FLOOR DRAIN.
14. PROVIDE ACCEPTANCE TESTING OF ALL NEW AND MODIFIED SYSTEMS IN ACCORDANCE WITH NFPA 13.

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.

FIRE PROTECTION LEGEND

- NEW FIRE SPRINKLER PIPING
- PENDENT SPRINKLER
- UPRIGHT SPRINKLER

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:	02/14/2025
REVIEWED BY:	KMN
DRAWN BY:	SVL
DESIGNED BY:	SVL
PROJECT NUMBER:	

2003-0070-006

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SHEET TITLE:

RAMP LEVEL FIRE PROTECTION PLAN - AREA B

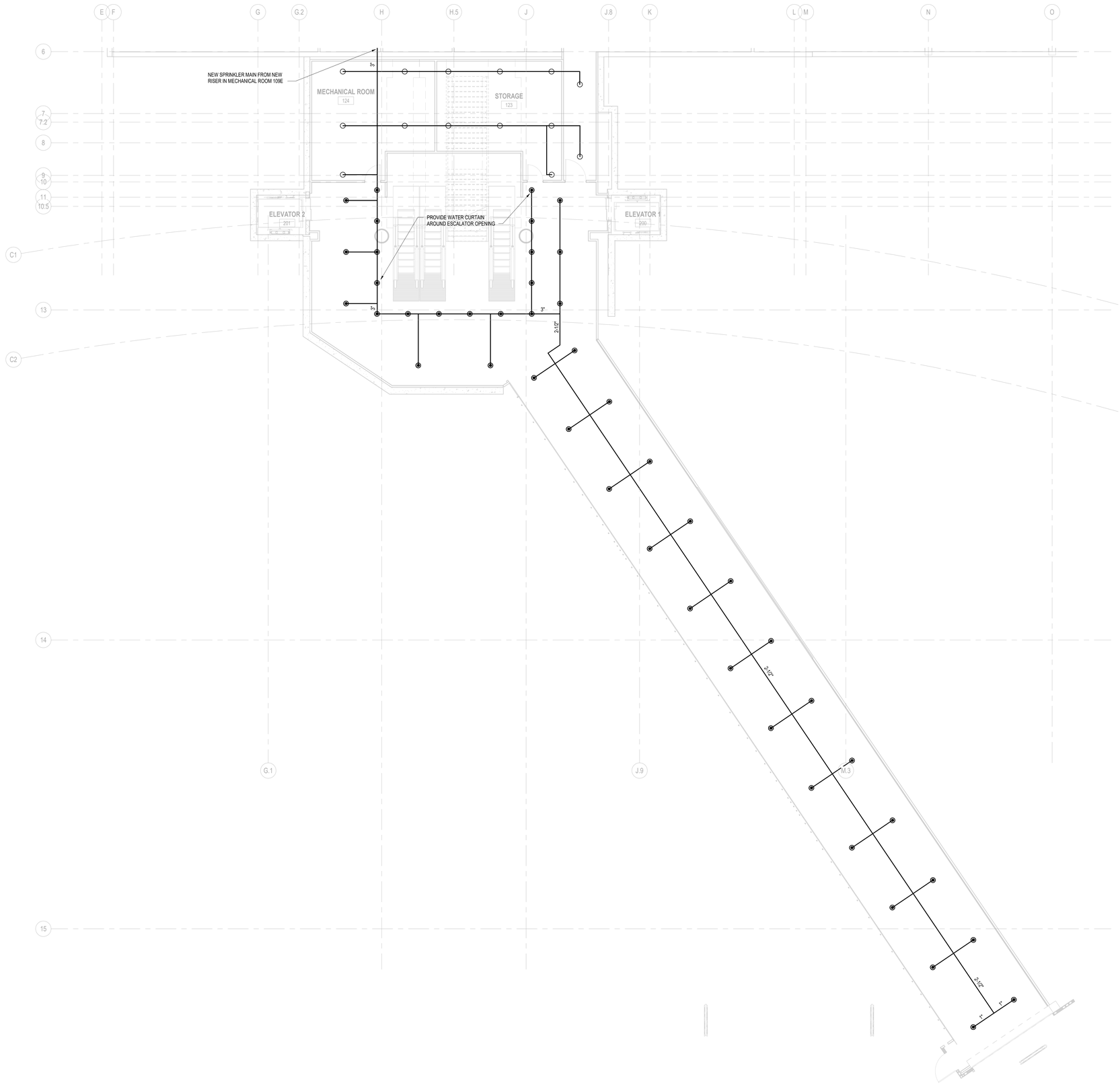
SHEET ID:

FX102

PROJECT STATUS:
100% BID SET

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PN

1 FIRE PROTECTION PLAN - RAMP LEVEL BASE BID

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

8 0 8 16

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

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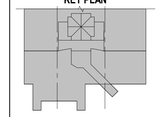
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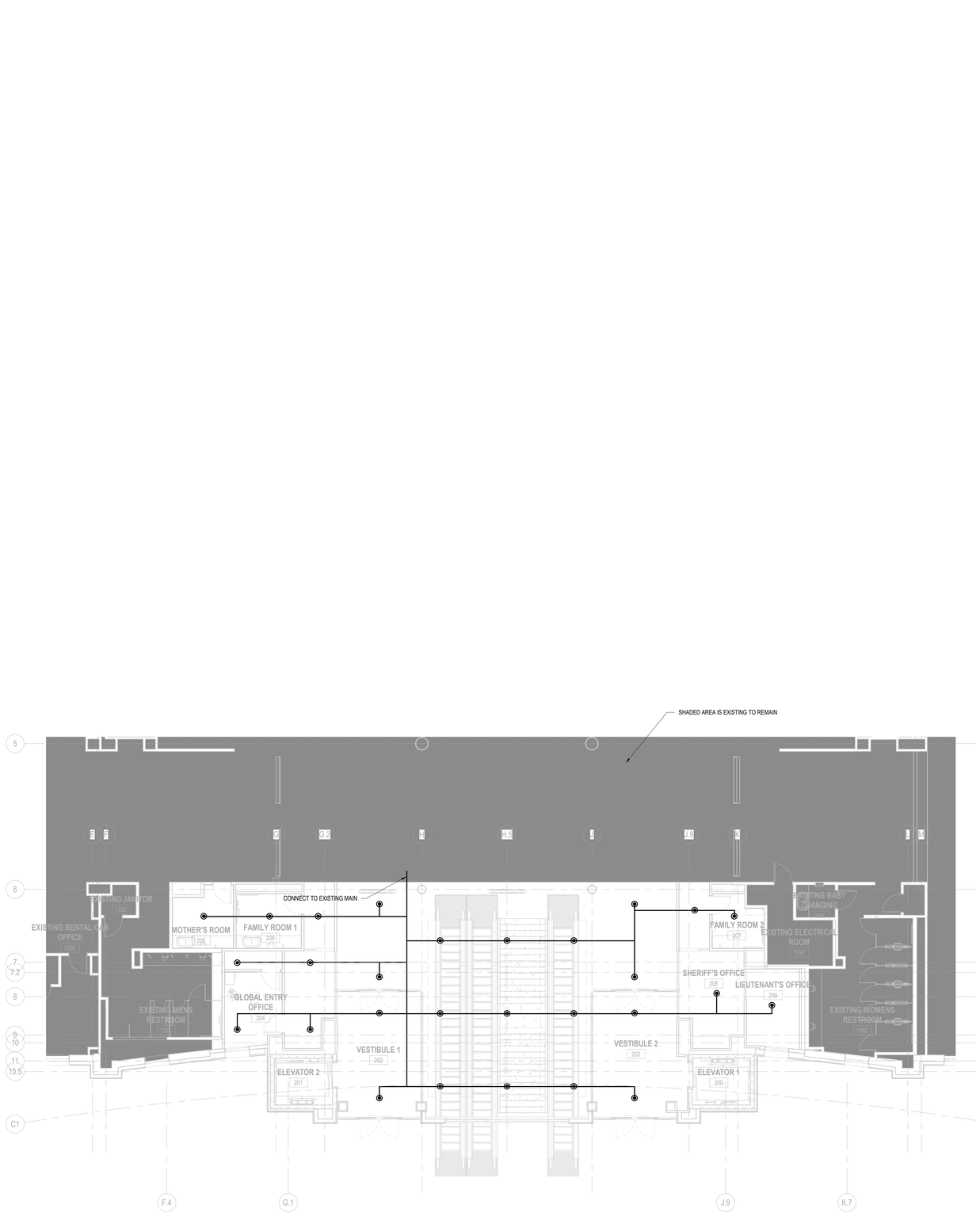
SHEET TITLE:
RAMP LEVEL FIRE PROTECTION PLAN - BASE BID

SHEET ID:
FX103

PROJECT STATUS:
100% BID SET

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.



PN

1 FIRE PROTECTION PLAN - TICKET LEVEL BASE BID

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

8 0 8 16

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

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KEY PLAN



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SHEET TITLE:

TICKET LEVEL FIRE PROTECTION PLAN - BASE BID

SHEET ID:

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PROJECT STATUS:
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GENERAL PLUMBING 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

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

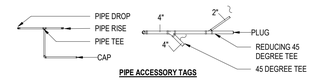
PIPING BEING DEMOLISHED

ABBREVIATIONS

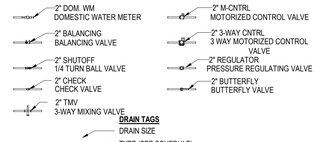
(E)	EXISTING PREFIX STANDARD, ABBREV. FOR EXISTING PIPING
AAV	AIR ADMITTANCE VALVE, INSTALLED ACCESSIBLE WITH FRESH AIR LOUVER
ABV	ABOVE
AC	ABOVE CEILING (GENERALLY INDICATES NOTED PIPING INSTALLED ABOVE CEILING)
AC	AIR CONDITIONING
ACT	REMOVABLE LAY-IN ACOUSTICAL CEILING TILE ASSEMBLY
AD	AREA DRAIN
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
E/A	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

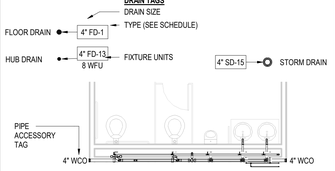
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
G	NATURAL GAS
PG	PROPANE GAS
REF-L	REFRIGERANT-LIQUID
REF-S	REFRIGERANT-SUCTION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



DRAIN 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-105K. 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

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PROJECT ADDRESS:
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WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

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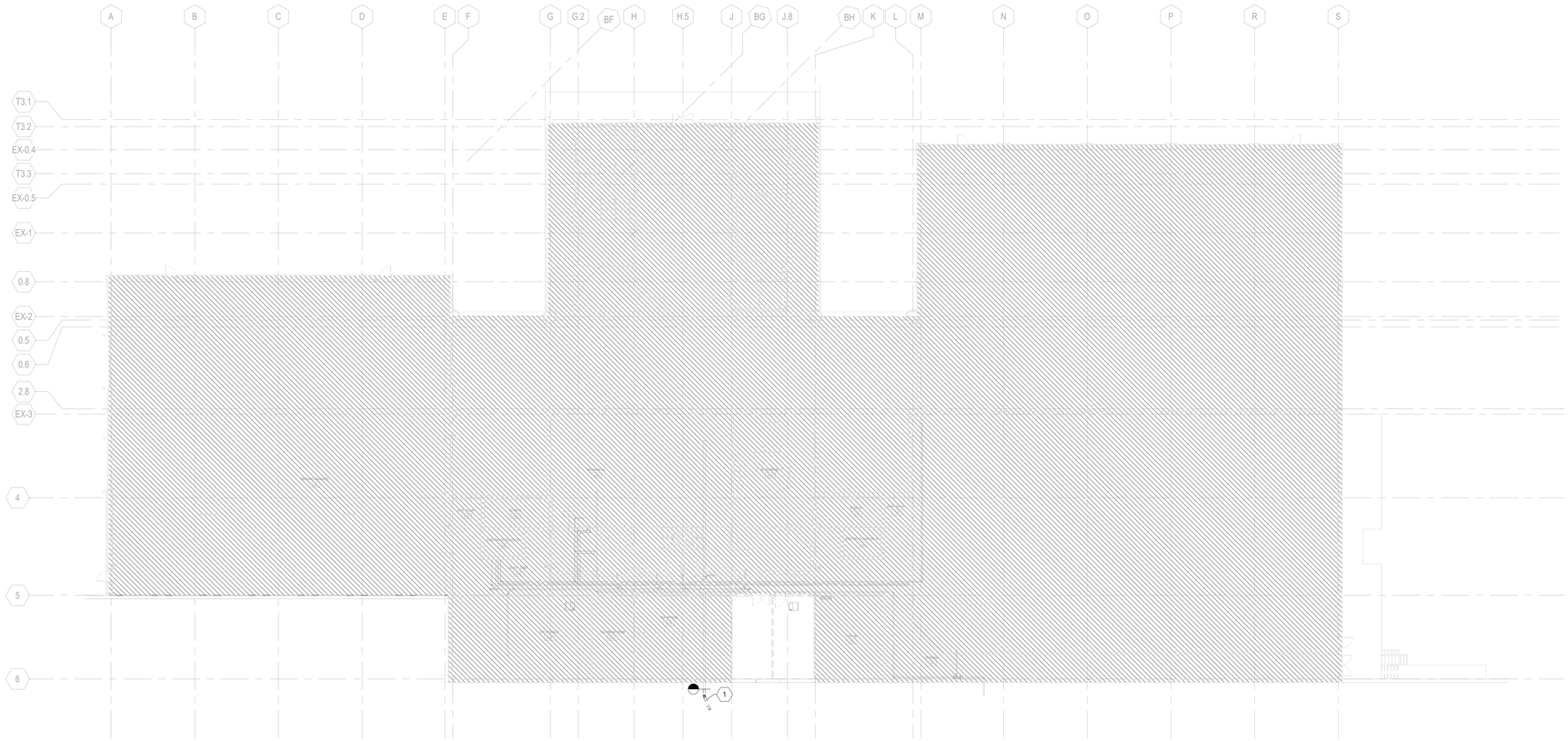
SHEET TITLE:
PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET ID:
P001

PROJECT STATUS:
100% BID SET

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PN

N

B2 OVERALL RAMP LEVEL PLUMBING DEMOLITION PLAN

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

FLOOR PLAN LEGEND

NO WORK IN AREA, U.N.O.

KEYED NOTES

1. 6" SS BG CONTINUES TO EXISTING CIVIL MANHOLE. EXACT LOCATION AND ROUTING OF THIS PIPE IS UNCLEAR. COORDINATE WITH CIVIL CONTRACTOR TO DEMOLISH PIPE FROM THE DEMOLITION POINT TO THE EXISTING CIVIL MANHOLE. PREPARE REMAINING 6" SS FOR RECONNECTION.

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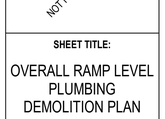
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North Carolina License Nos. 50073 *
F-0493 * C-28

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: KMN
DRAWN BY: MA
DESIGNED BY: RSS
PROJECT NUMBER:
1003-0070-004

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SHEET TITLE:
OVERALL RAMP LEVEL PLUMBING DEMOLITION PLAN

SHEET ID:
PD101

PROJECT STATUS:
100% BID SET

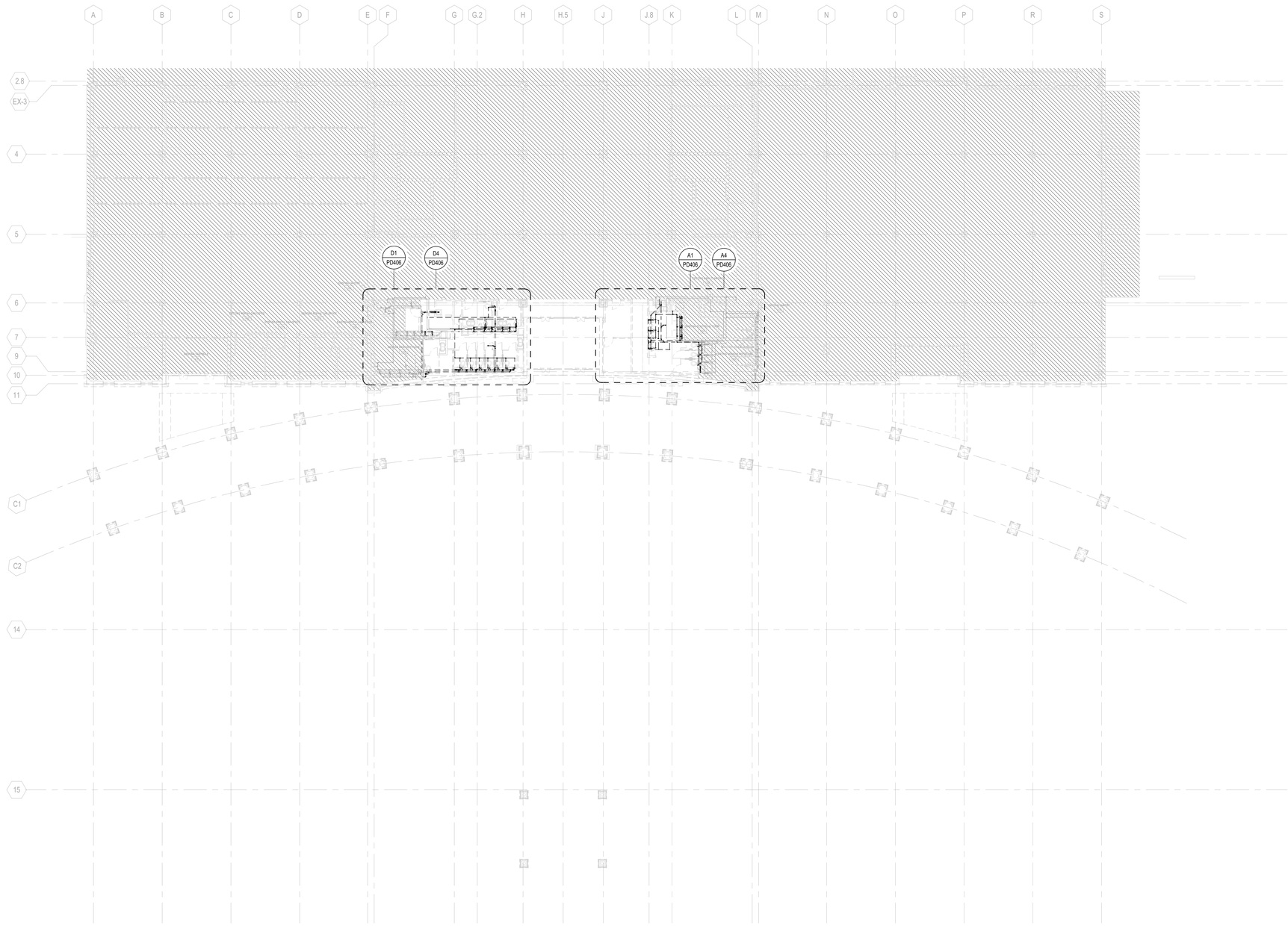
16 0 16 32
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FLOOR PLAN LEGEND

	NO WORK IN AREA, U.N.O.



PN
N

A2 OVERALL TICKET LEVEL PLUMBING DEMOLITION PLAN

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

16 0 16 32

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

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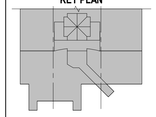
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ILM

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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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

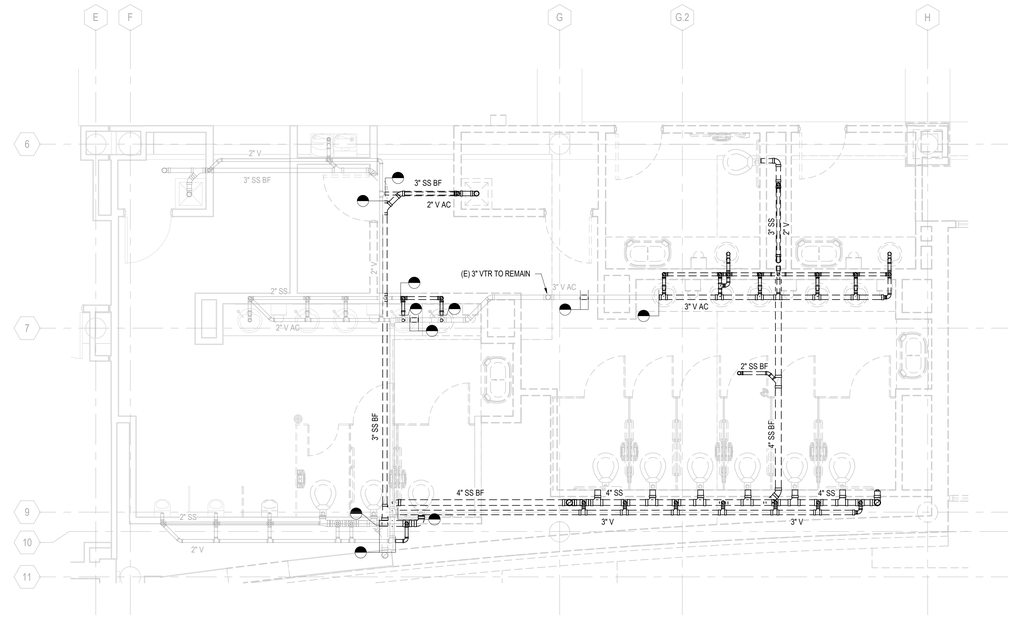
SHEET ID:

PD106

PROJECT STATUS:
100% BID SET

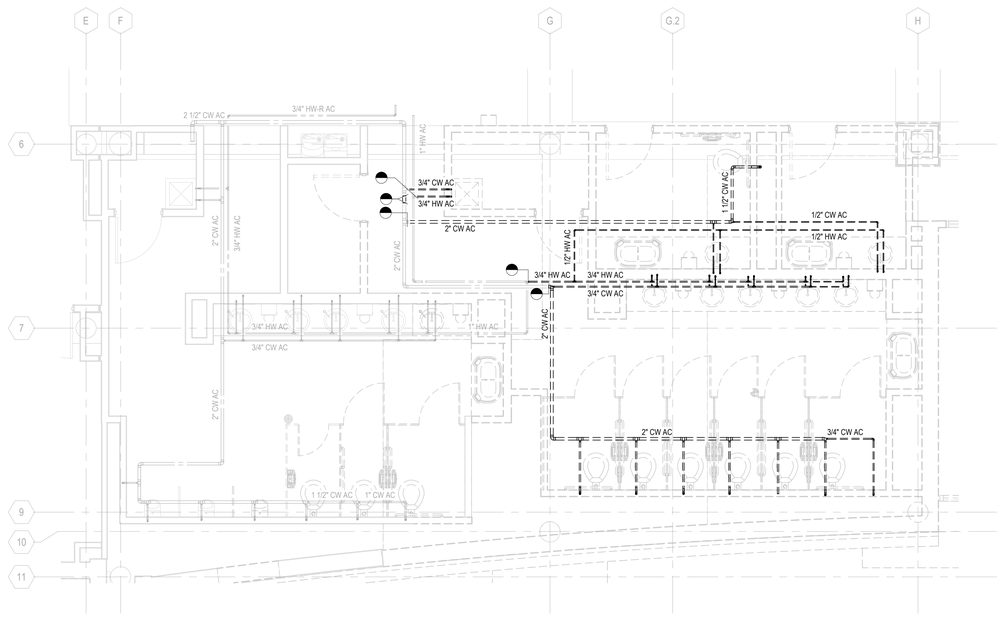
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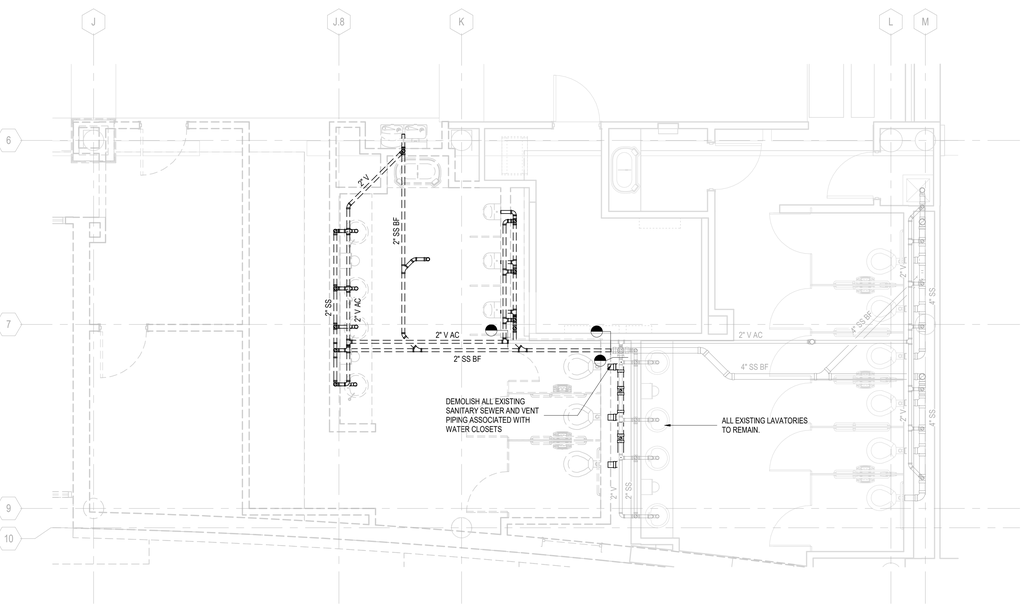
PN N D1 ENLARGED TICKET LEVEL DRAINAGE WASTE AND VENT PIPING DEMOLITION PLAN

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



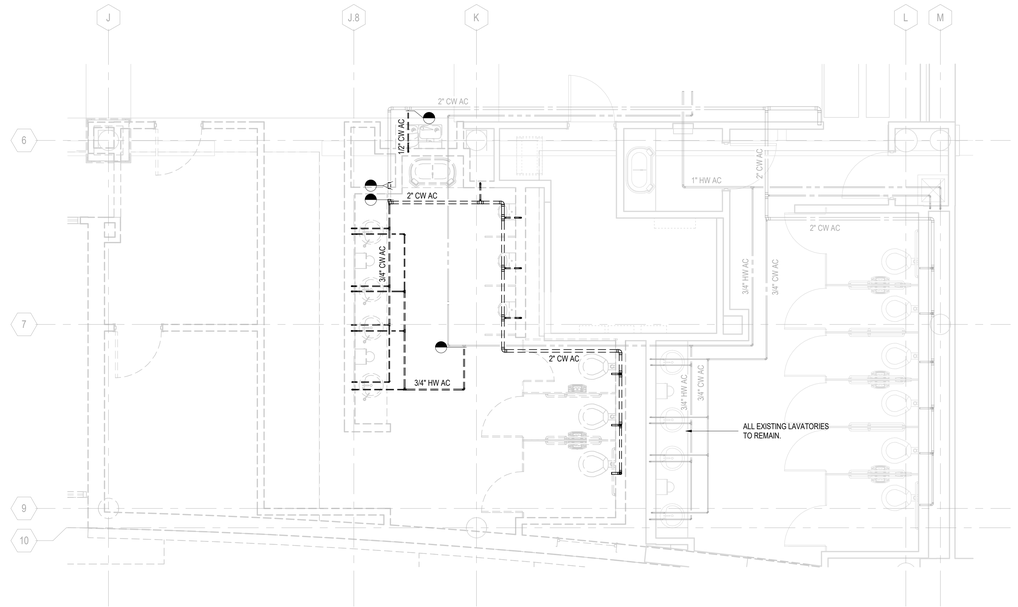
PN N D4 ENLARGED TICKET LEVEL PRESSURE PIPING DEMOLITION PLAN

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



PN N A1 ENLARGED TICKET LEVEL DRAINAGE WASTE AND VENT PIPING DEMOLITION PLAN

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



PN N 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:
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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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SHEET TITLE:
ENLARGED TICKET LEVEL PLUMBING DEMOLITION PLANS

SHEET ID:
PD406

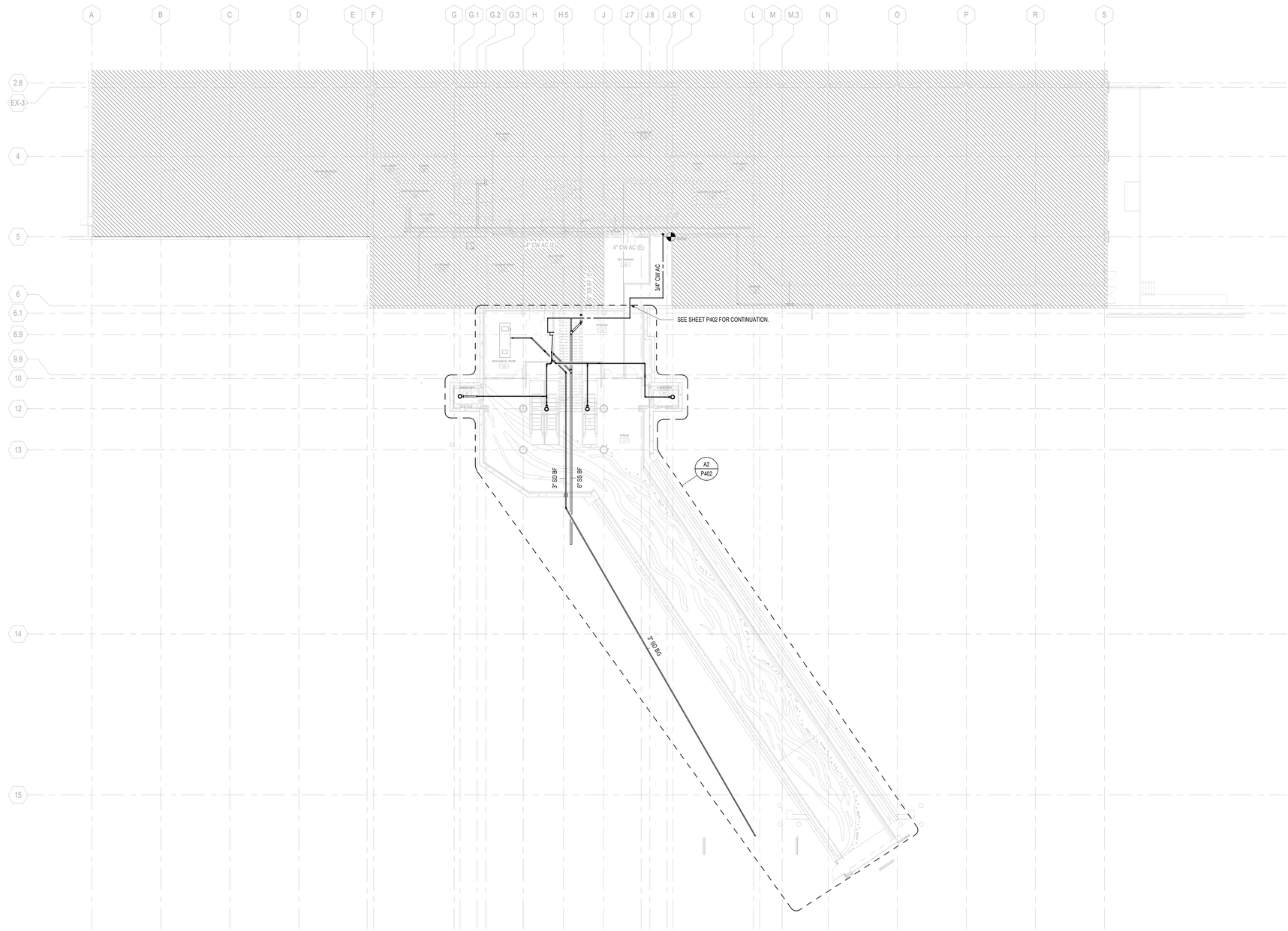
PROJECT STATUS:
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FLOOR PLAN LEGEND

NO WORK IN AREA, U.N.O.



A2 OVERALL RAMP LEVEL PLUMBING PLAN

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

16 0 16 32

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

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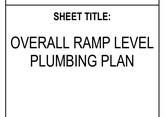
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ILM

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:
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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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SHEET TITLE:
OVERALL RAMP LEVEL PLUMBING PLAN

SHEET ID:
P101

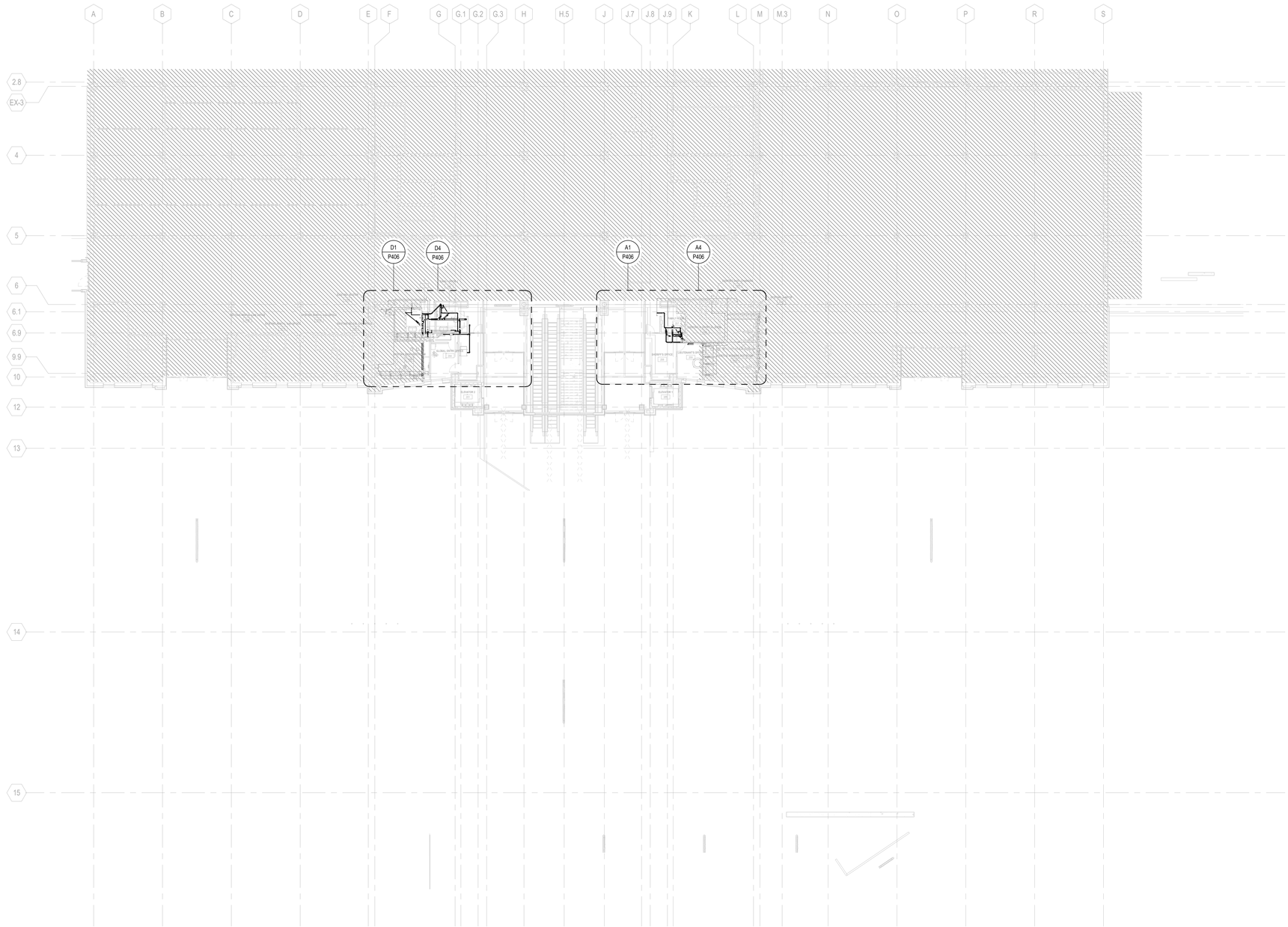
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FLOOR PLAN LEGEND

NO WORK IN AREA, U.N.O.



PN

N

A2 OVERALL TICKET LEVEL PLUMBING PLAN

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

16 0 16 32

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

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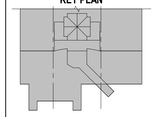
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ILM

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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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

PROJECT NUMBER:
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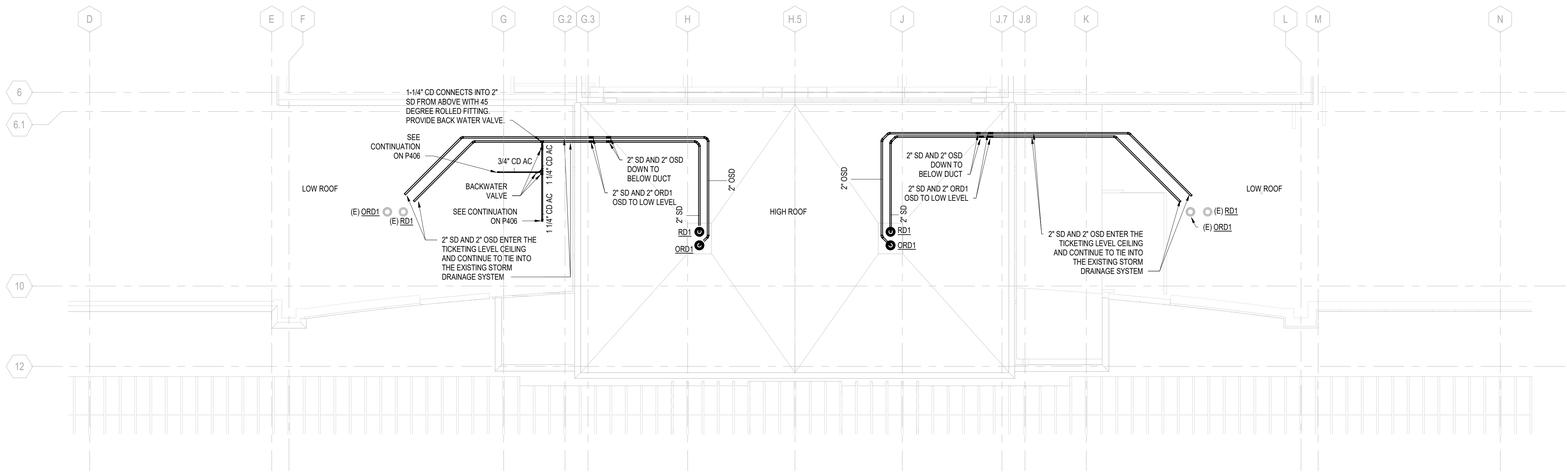
SHEET TITLE:
OVERALL TICKET LEVEL PLUMBING PLAN

SHEET ID:
P106

PROJECT STATUS:
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PN

N

D2

PARTIAL ROOF PLUMBING PLAN - BASE BID

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

8 0 8 16

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

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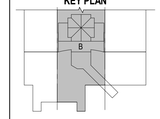
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KEY PLAN



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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SHEET TITLE:

OVERALL ROOF LEVEL PLUMBING PLAN

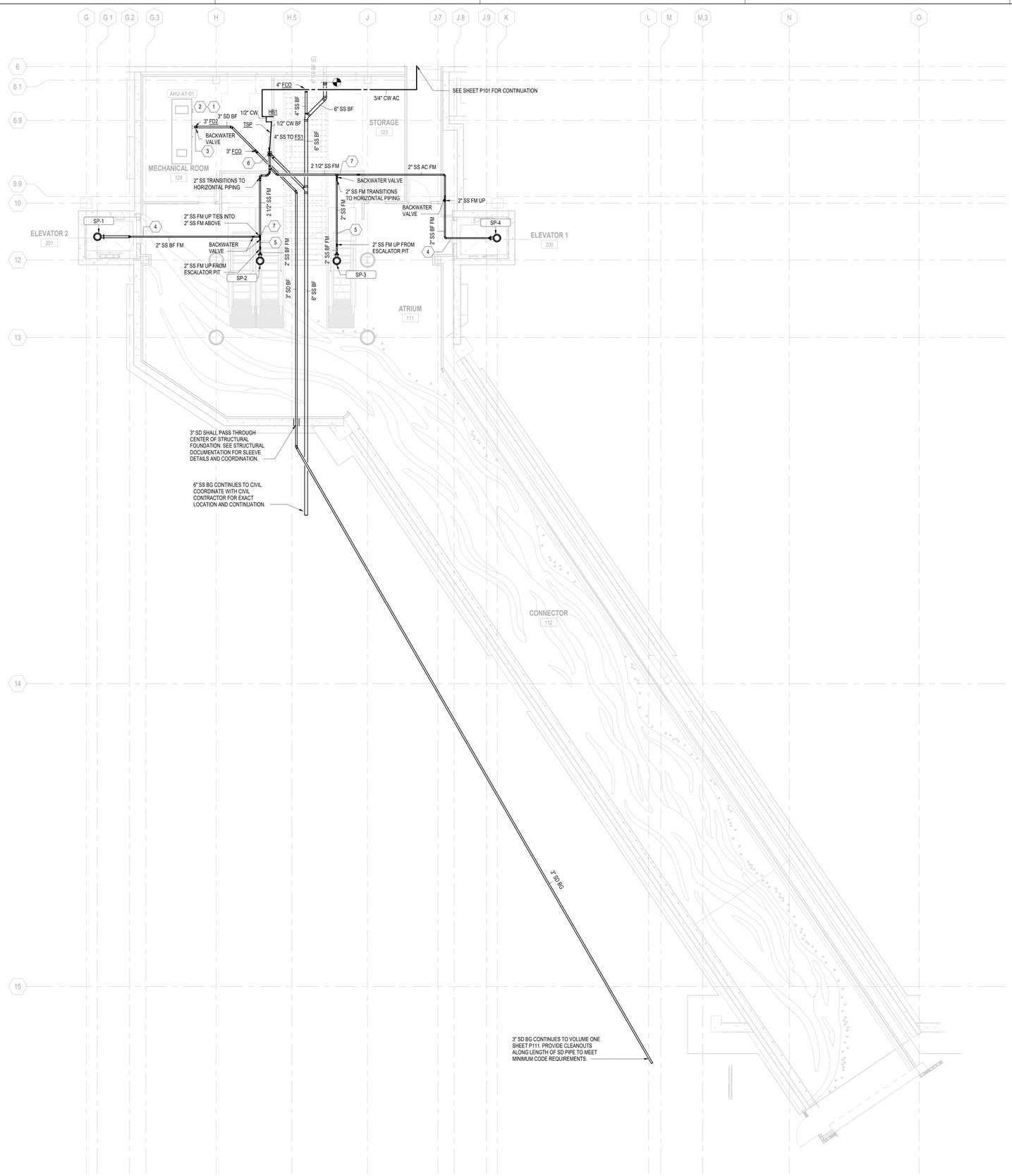
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KEYED NOTES

1. CONDENSATE FROM AHU-AT-01 DISCHARGES INTO FD2 INDIRECTLY WITH AIR GAP. CONDENSATE FROM AHU DISCHARGES TO STORM SYSTEM PER CPPUA REQUIREMENTS.
2. ROUTE FULL SIZE CONDENSATE FROM AHU-AT-01 TO FD2.
3. PROVIDE J R SMITH MODEL 701 ROUND COMPRESSION TYPE SEAL BACKWATER VALVE OR EQUIVALENT IN VERTICAL PIPE DOWNSTREAM OF FLOOR DRAIN.
4. 2" SS FM EXITS BELOW FLOOR OUT THE ELEVATOR PIT SIDEWALL.
5. ROUTE 2" SS FM TIGHT ALONG THE UNDERSIDE OF THE ESCALATOR. MATCH THE ESCALATORS SLOPE.
6. 2-1/2" SS FM DN TO FS1 DISCHARGES INTO FS1 INDIRECTLY WITH AIR GAP.
7. 2" SS & 2" SS COMBINE INTO 2-1/2" SS.

PN
N

A2 ENLARGED RAMP LEVEL PLUMBING PLAN

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

8 0 8 16

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

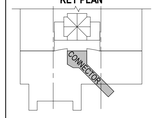
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ILM

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:	KMN
DRAWN BY:	CDW
DESIGNED BY:	RSS
PROJECT NUMBER:	1003-0070-004

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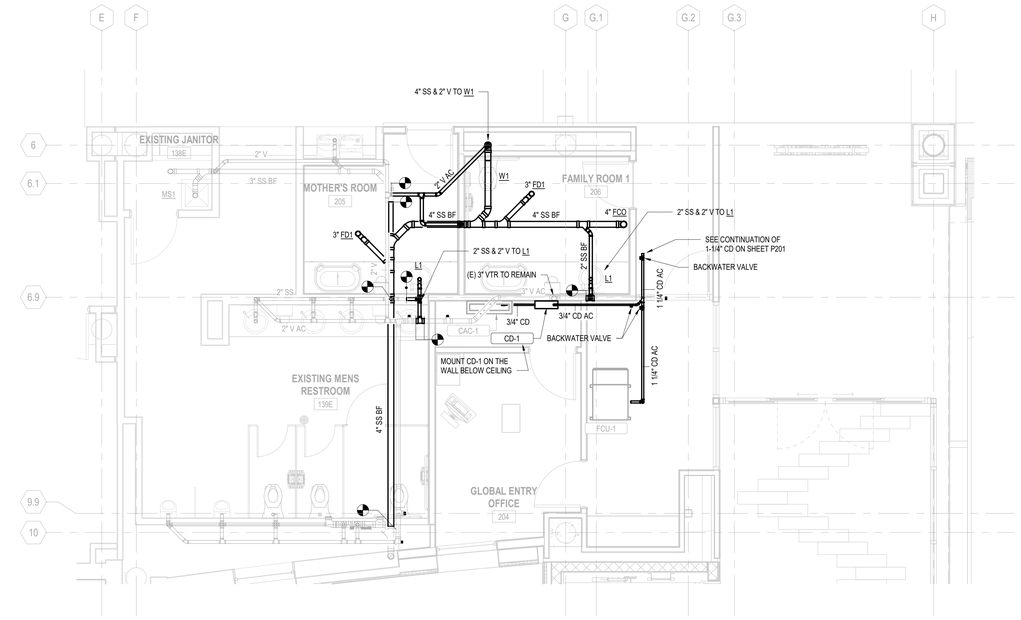
SHEET TITLE:
ENLARGED RAMP LEVEL PLUMBING PLANS

SHEET ID:
P402

PROJECT STATUS:
100% BID SET

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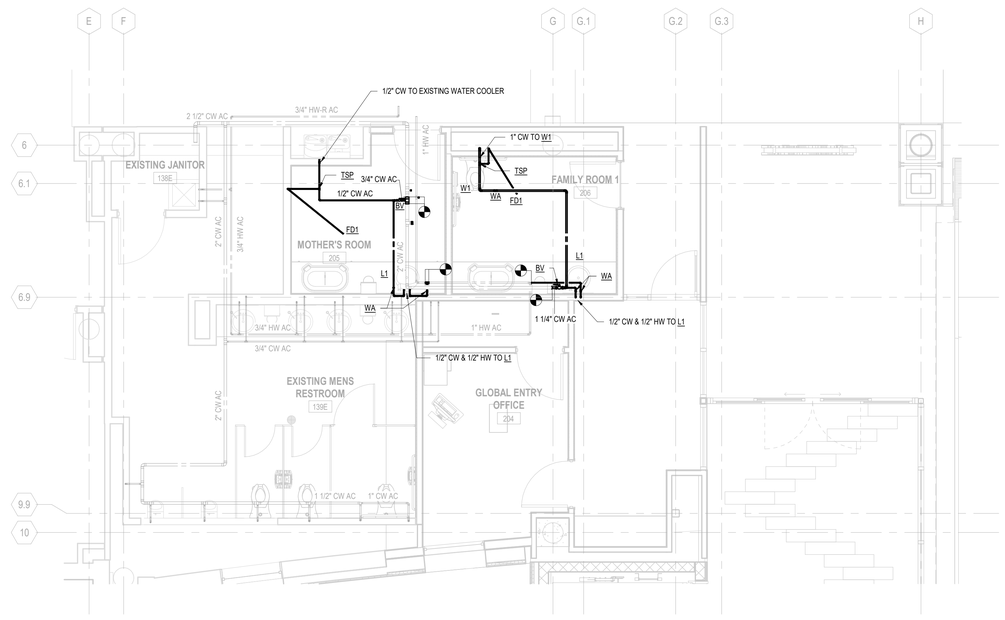
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PN

D1 ENLARGED TICKET LEVEL DRAINAGE WASTE AND VENT PIPING PLAN

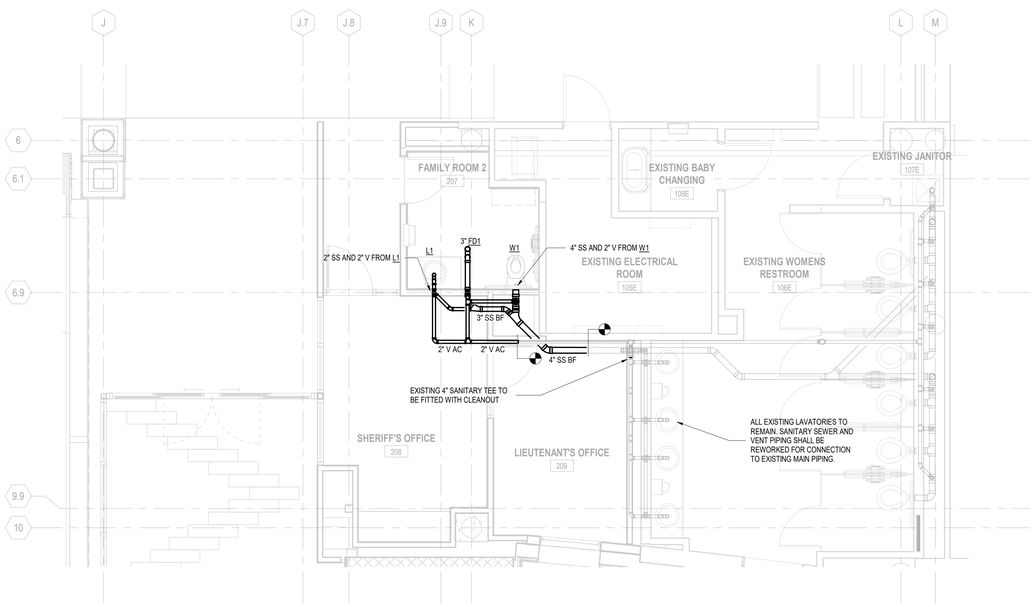
SCALE: 1/4" = 1'-0"



PN

D4 ENLARGED TICKET LEVEL PRESSURE PIPING PLAN

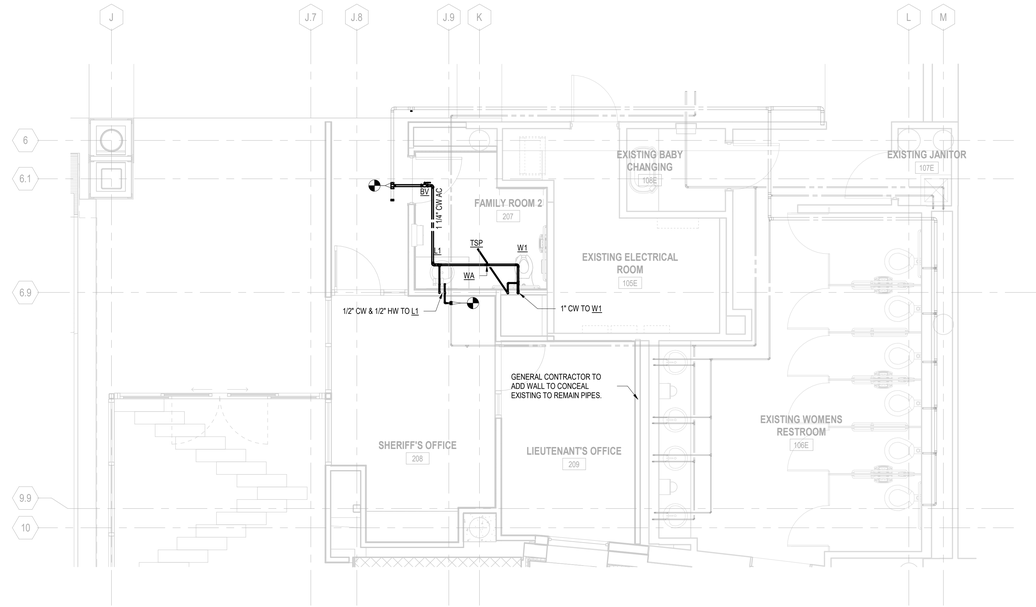
SCALE: 1/4" = 1'-0"



PN

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

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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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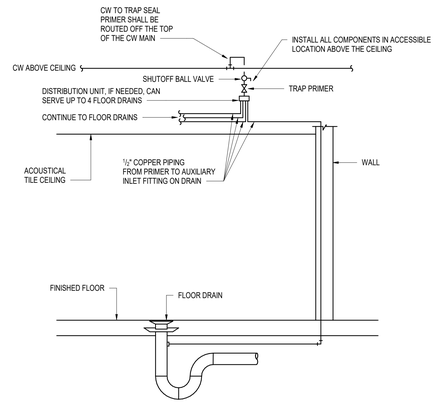
SHEET TITLE:
ENLARGED TICKET LEVEL PLUMBING PLAN

SHEET ID:
P406

PROJECT STATUS:
100% BID SET

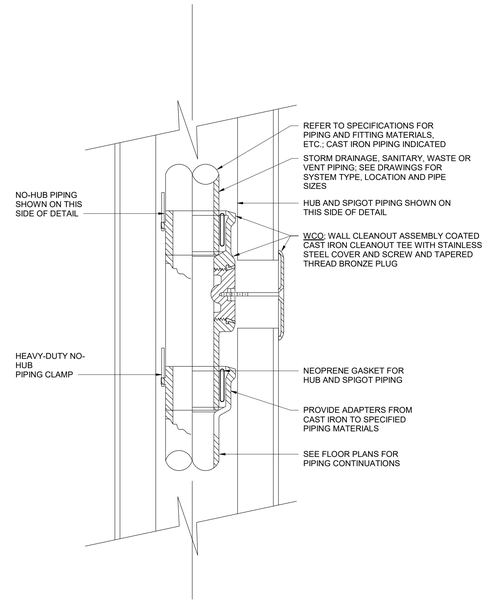
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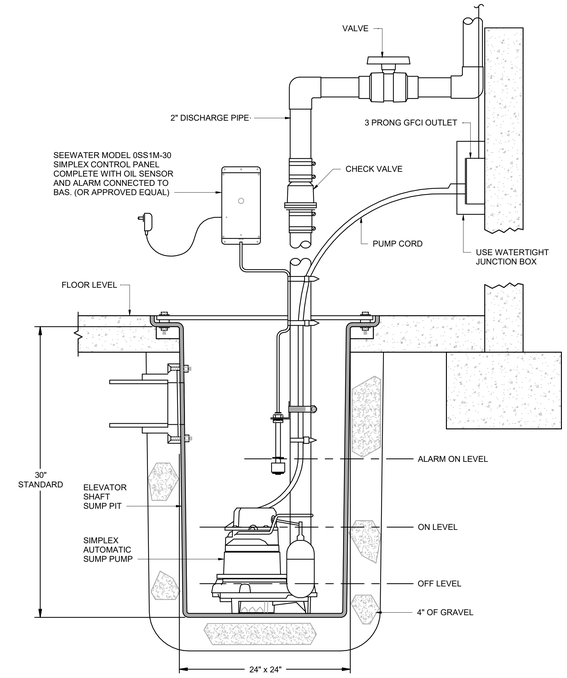
C2 TRAP PRIMER DETAIL

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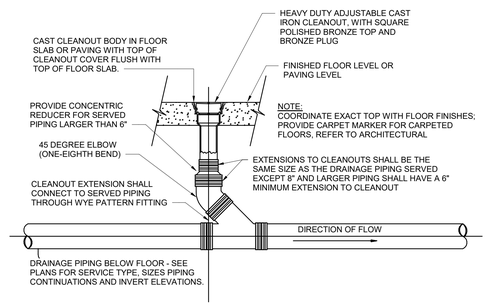
C3 WALL CLEANOUT (WCO) ASSEMBLY

SCALE: N.T.S.



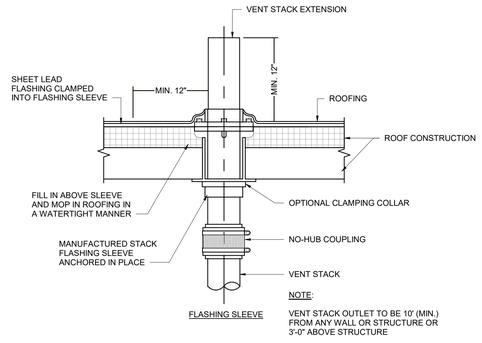
C5 SUMP PUMP DETAIL

SCALE: N.T.S.



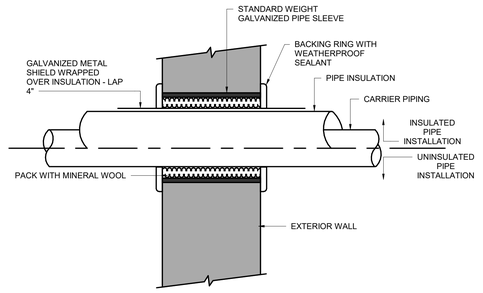
B2 FLOOR CLEANOUT (FCO) DETAIL

SCALE: N.T.S.



B3 VENT THRU ROOF DETAIL

SCALE: N.T.S.



B5 PIPING WALL SLEEVE DETAIL

SCALE: N.T.S.

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DRAWN BY:	MA
DESIGNED BY:	RSS
PROJECT NUMBER:	

1003-0070-004

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SHEET TITLE:

PLUMBING DETAILS

SHEET ID:

P501

PROJECT STATUS:
100% BID SET

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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 72220 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 72220 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.
HB1	HOSE BIBB	-	-	-	3/4"	-	ZURN Z1341XL-RC	-	-	-	-	-	-		3/4" LEAD FREE WALL FAUCET, ROUGH CHROME FINISH
FS1	FLOOR SINK	AS NOTED	-	-	-	-	ZURN - Z1902-P-33	-	-	-	-	-	-		FLOOR SINK, SEE PLANS FOR SIZE OUTLET. MOUNT FLOOR SINK FROM WALL OR ON STAND APPROXIMATELY 3' AFF. PROVIDE WITH ABOVE GRADE DEEP SEAL CAST IRON TRAP WITH ACCESIBLE CO PLUG. PROVIDE WITH WHITE A.R.C. ANTI-SPLASH BOTTOM DOME STRAINER AND 1/2" TRAP SEAL PRIMER CONNECTION.

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
SP-1 THRU SP-4	SUMP PIT	HI LEVEL	LO LEVEL	50	40	17.3	1	208	SINGLE	60	1
BFDP-1	BFP DRAIN	FLOAT SWITCH	FLOAT SWITCH	38	15	-	1/2	115	SINGLE	60	2, 3

NOTES:

1. PROVIDE NEMA 4X SIMPLEX CONTROL PANEL WITH ELECTRICAL ALTERNATOR, ALARM, AND (2) 10-0330 VARIABLE LEVEL FLOAT CONTROL SWITCHES. PROVIDE CHECK VALVE (UNICHECK) AND BALL VALVE IN DISCHARGE PIPING FROM PUMP. INTEGRATE HIGH-LEVEL ALARM WITH BAS.
2. 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.
3. 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
PROJECT NUMBER:
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SHEET TITLE:
PLUMBING SCHEDULES

SHEET ID:
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PROJECT STATUS:
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GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- DISCONNECT SYMBOL
- XX / XXXXX — NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- 0 — KEYNOTE
- CONTINUATION SYMBOL
- Room / 5 — ROOM NAME AND NUMBER
- EXISTING CONSTRUCTION
- 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
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

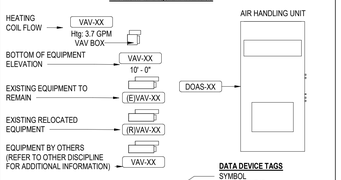
HVAC SYMBOLS

- 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 — 3-CONE DIFFUSER
- 500 CFM / 12"X10" — LOUVERED GRILLE
- 500 CFM / 12"X10" — EGGCRATE RETURN GRILLE

MECHANICAL EQUIPMENT TAGS



DATA DEVICE TAGS

SYMBOL / EQUIPMENT ID

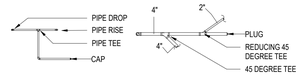
CARBON DIOXIDE SENSOR	CO2	TH	RTU-XX	TEMPERATURE & HUMIDITY SENSOR
CARBON MONOXIDE SENSOR	CO	TS	VAV-XX	TEMPERATURE SENSOR
NITROGEN DIOXIDE SENSOR	NO2	T		THERMOSTAT
HUMIDITY SENSOR	HS	MS		MANUAL SWITCH
HUMIDISTAT	H	S		SENSOR

DAMPER TAGS

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

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



PIPE ACCESSORY TAGS

- 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, NORTH CAROLINA 2024 MECHANICAL CODE, NORTH CAROLINA 2024 PLUMBING CODE, NATIONAL ELECTRICAL CODE AND NORTH CAROLINA 2024 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. PROVIDE 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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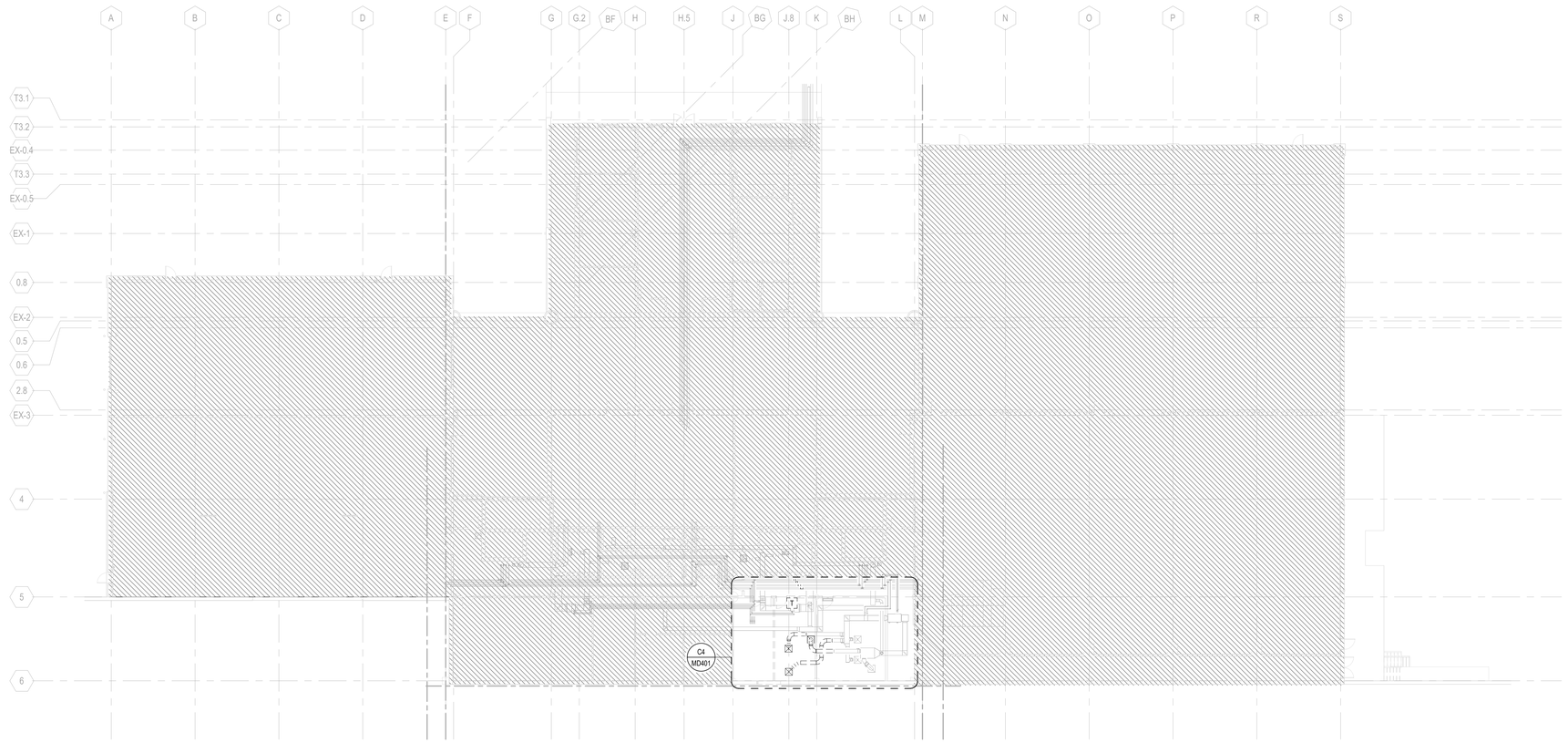
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MECHANICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET ID:
M001

PROJECT STATUS:
100% BID SET

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PN

N

B2 OVERALL RAMP LEVEL MECHANICAL DEMOLITION PLAN

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

FLOOR PLAN LEGEND

	NO WORK IN AREA, U.N.O.

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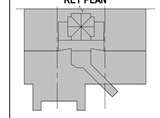
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KEY PLAN



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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OVERALL RAMP LEVEL MECHANICAL DEMOLITION PLAN

SHEET ID:

MD101

PROJECT STATUS:
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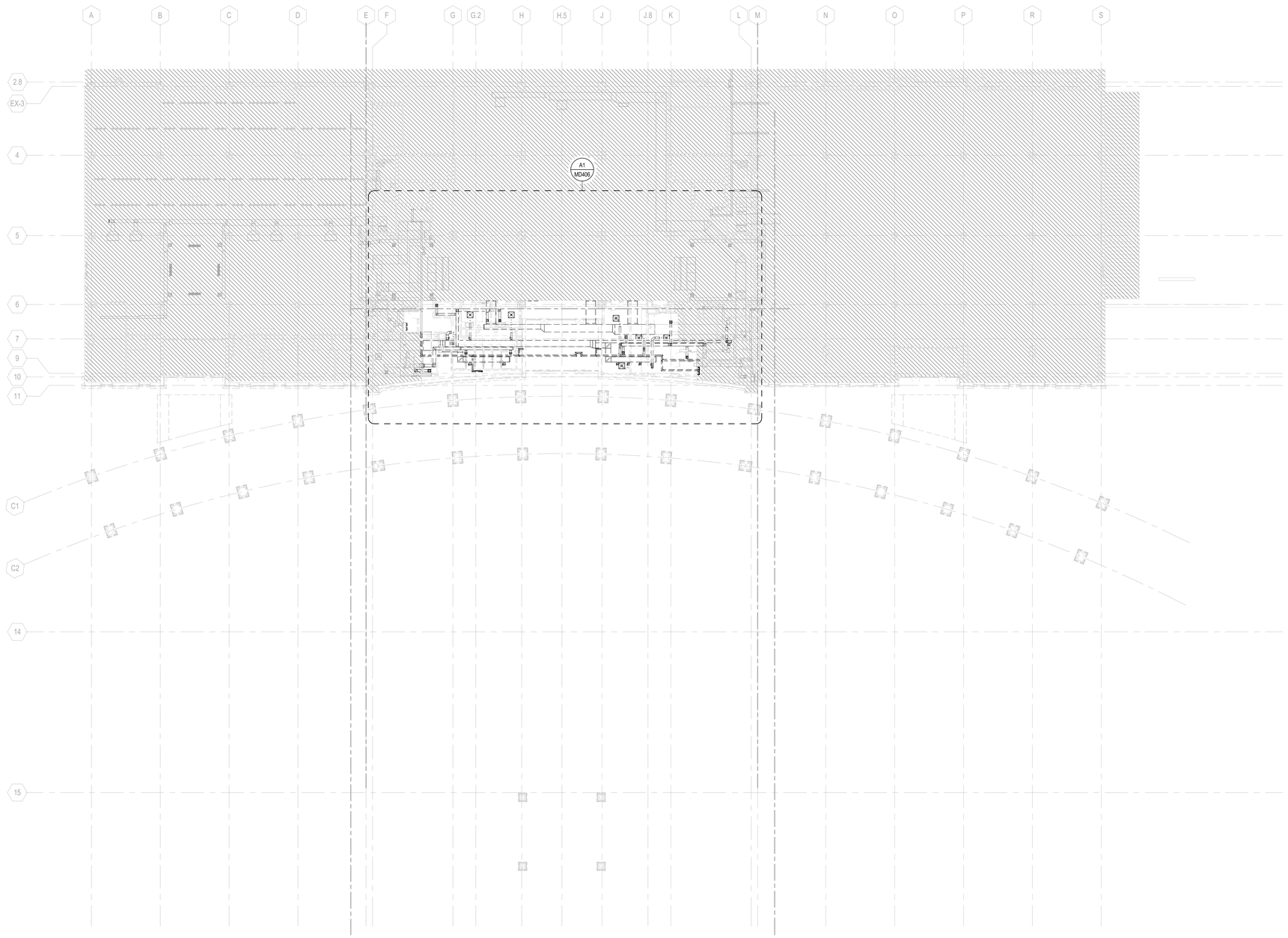
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FLOOR PLAN LEGEND

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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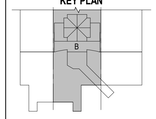
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KEY PLAN



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OVERALL TICKET LEVEL MECHANICAL DEMOLITION PLAN

SHEET ID:

MD106

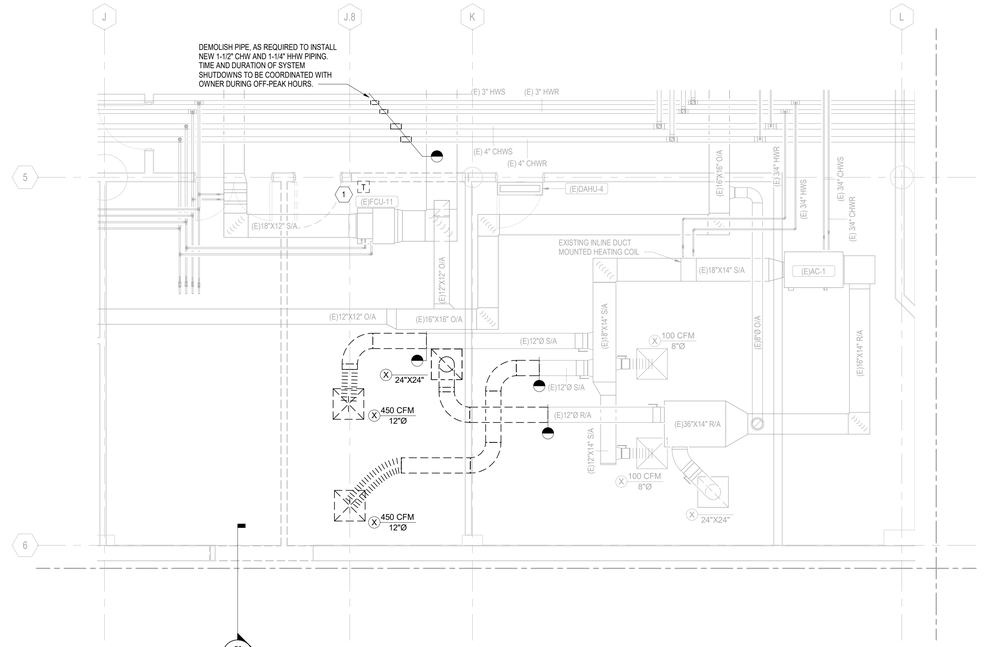
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KEYED NOTES

1. MECHANICAL CONTRACTOR TO VERIFY LOCATION OF THERMOSTAT SERVING (E) AC-1. EXISTING THERMOSTAT TO BE PREPARED FOR RELOCATION.



PN

N

C4 ENLARGED RAMP LEVEL MECHANICAL DEMOLITION PLAN

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

4 0 4 8

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

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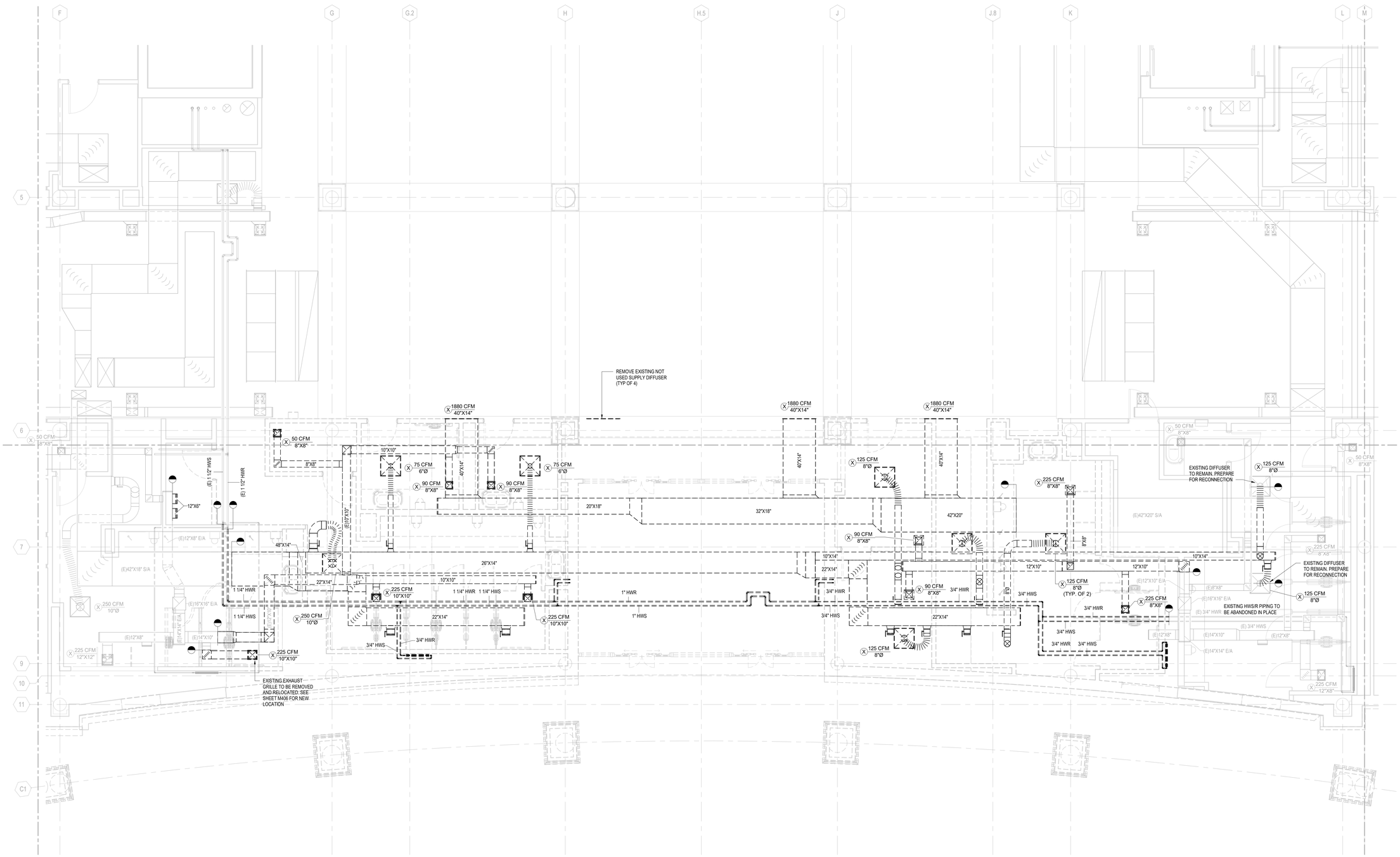
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ENLARGED RAMP LEVEL MECHANICAL DEMOLITION PLAN

SHEET ID:
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PROJECT STATUS:
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PN

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A1 ENLARGED TICKET LEVEL MECHANICAL DEMOLITION PLAN

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4 0 4 8

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

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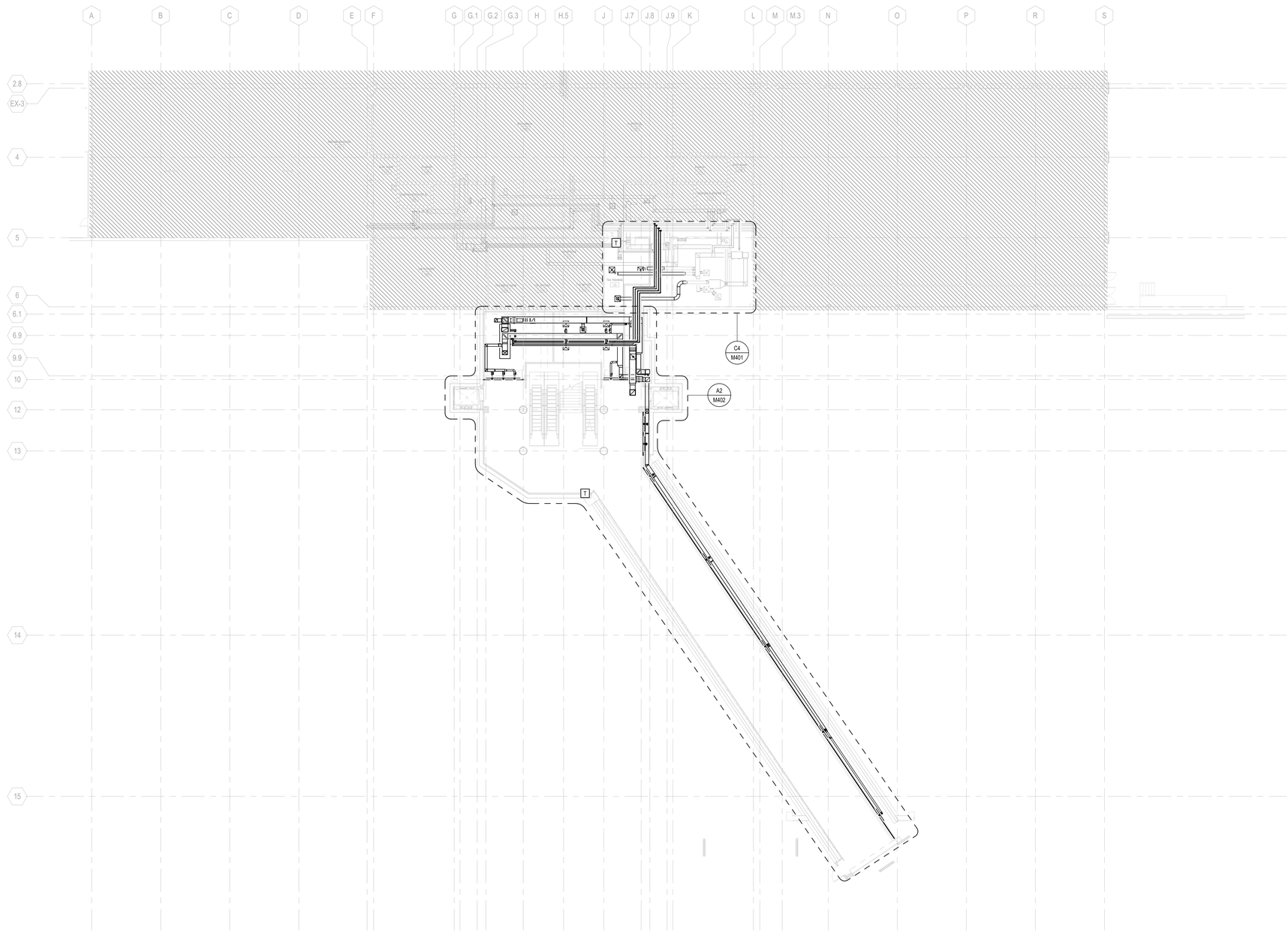
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FLOOR PLAN LEGEND

	NO WORK IN AREA, U.N.O.



PN

N

A2 OVERALL RAMP LEVEL MECHANICAL PLAN

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

16 0 16 32

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

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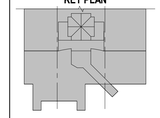
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OVERALL RAMP LEVEL MECHANICAL PLAN

SHEET ID:

M101

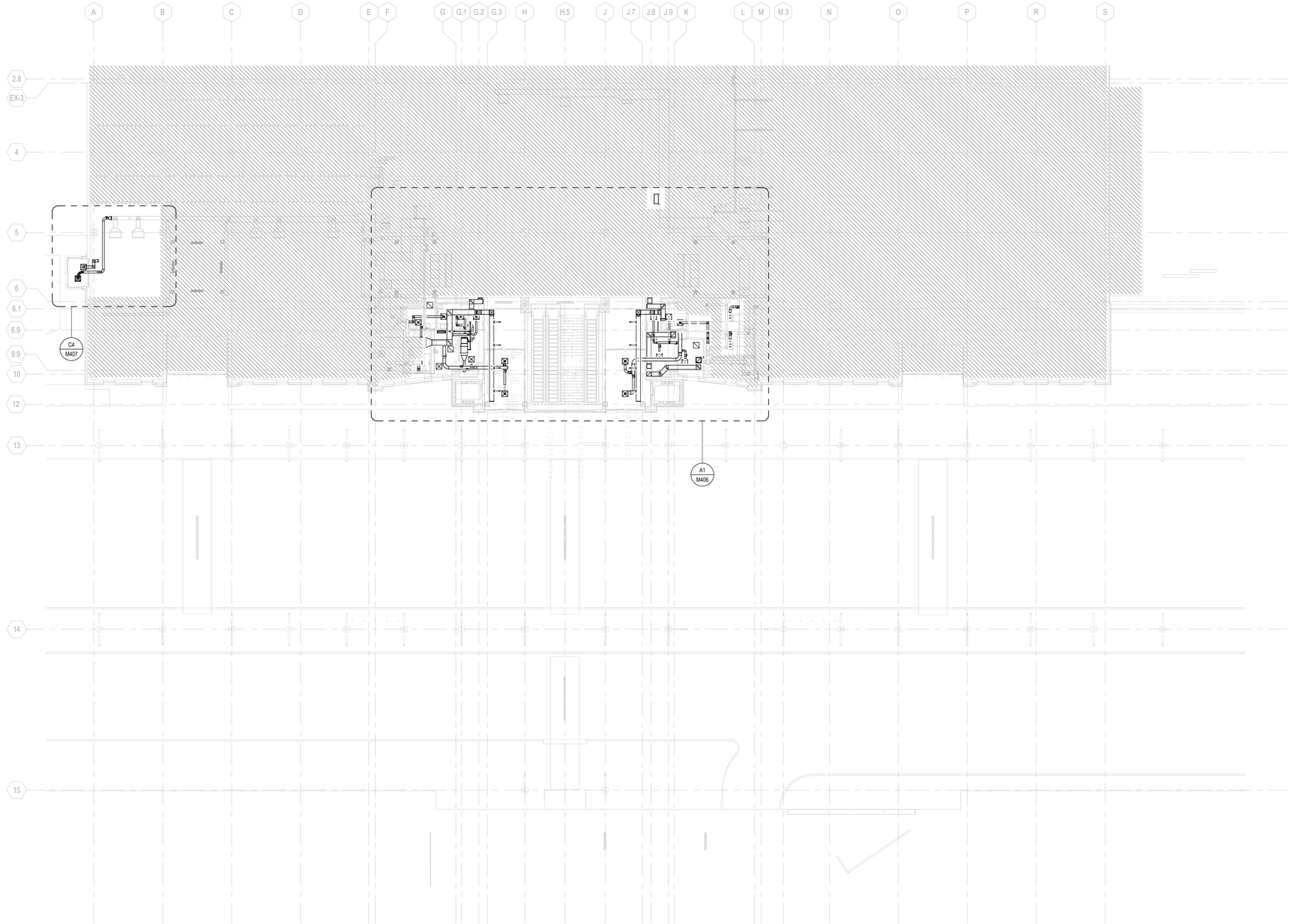
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FLOOR PLAN LEGEND

NO WORK IN AREA, U.N.O.



PN

A2 OVERALL TICKET LEVEL MECHANICAL PLAN

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

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

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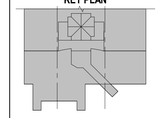
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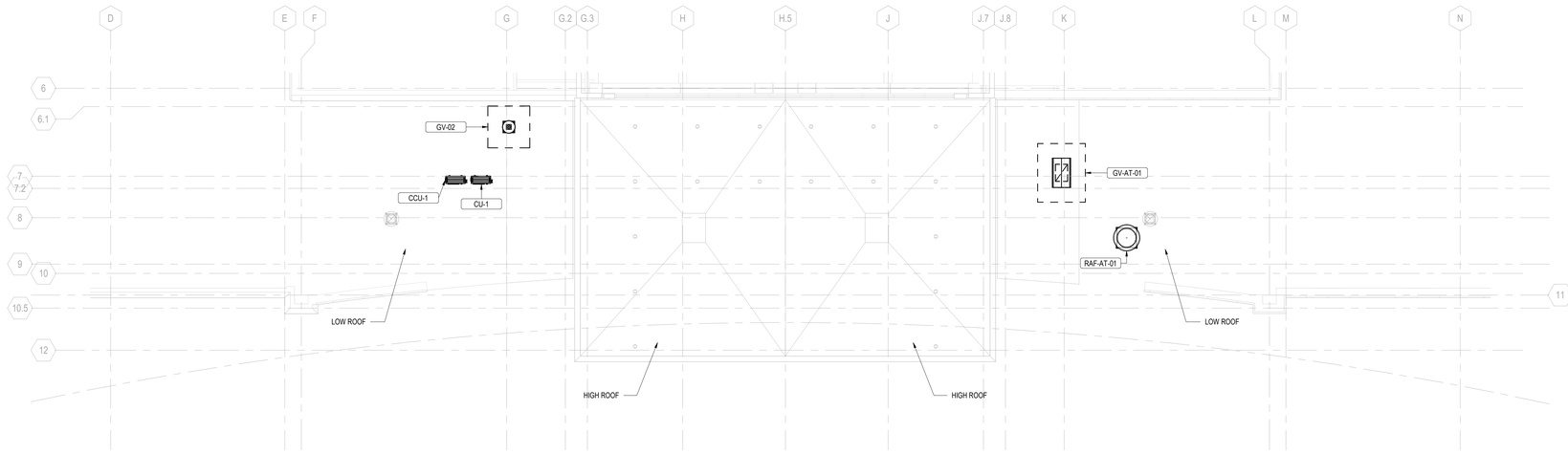
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OVERALL TICKET LEVEL MECHANICAL PLAN

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M106

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PN
N

D2 OVERALL ROOF LEVEL MECHANICAL PLAN

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8 0 8 16

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

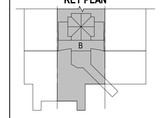
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KEY PLAN



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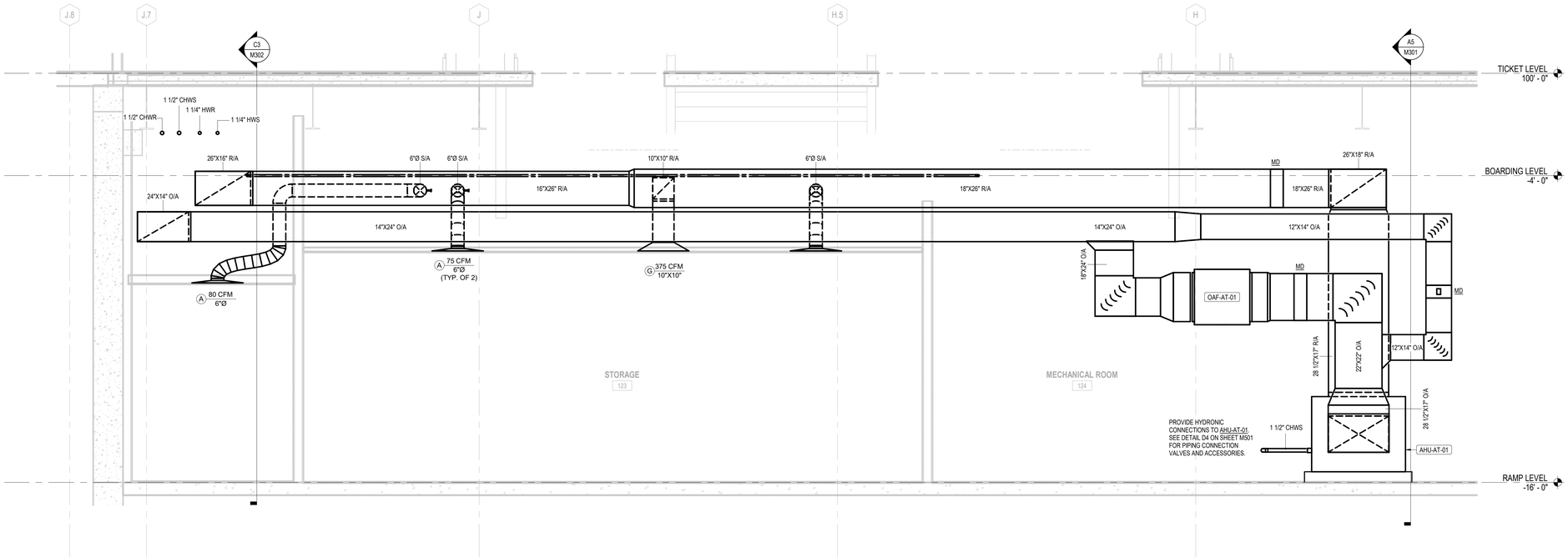
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OVERALL ROOF LEVEL MECHANICAL PLAN

SHEET ID:
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PROJECT STATUS:
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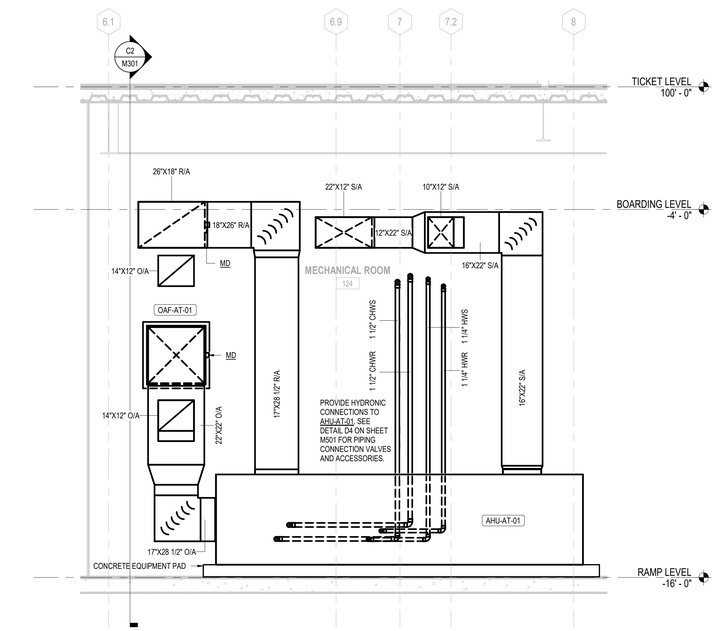
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C2 AHU-AT-01 HORIZONTAL SECTION

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



A5 AHU-AT-01 VERTICAL SECTION

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

2 0 2 4

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

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NO.	DESCRIPTION	DATE

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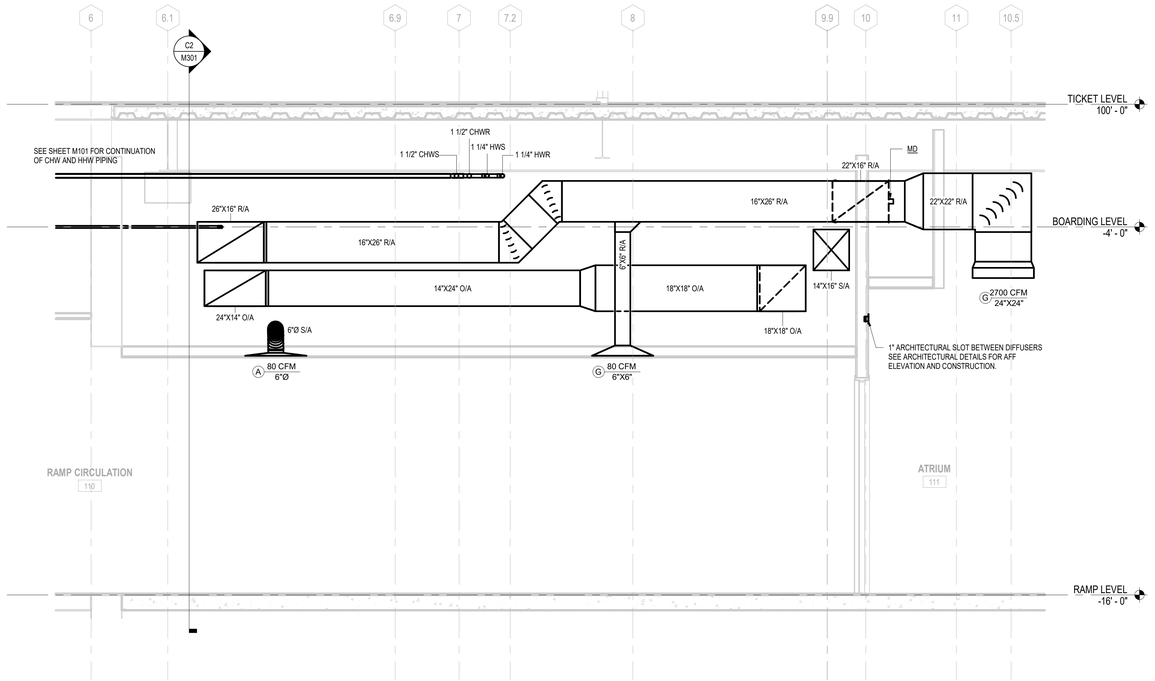
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MECHANICAL SECTIONS

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M301

PROJECT STATUS:
100% BID SET

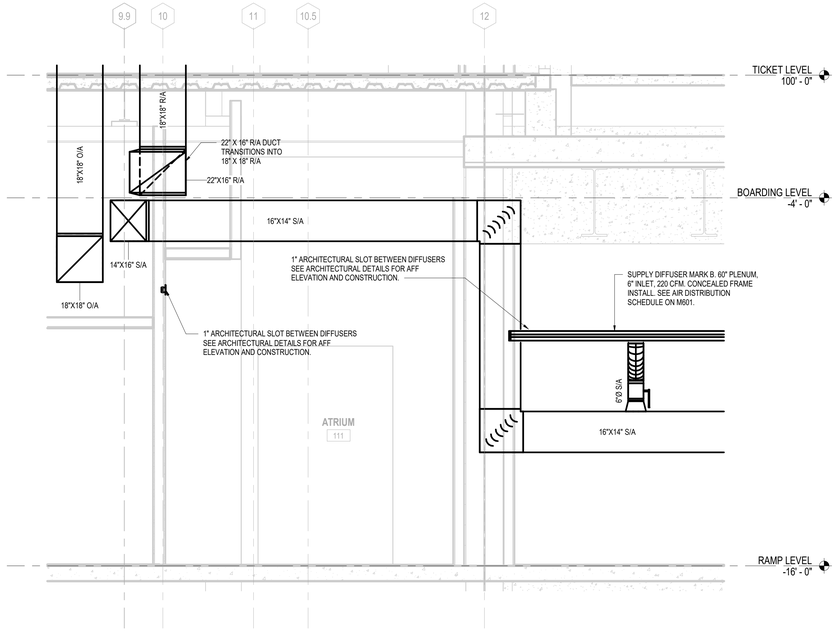
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C3 RAMP CIRCULATION VERTICAL SECTION

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



A4 TUNNEL VERTICAL SECTION

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

2 0 2 4

SCALE: 1/2" = 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:	MA
DESIGNED BY:	RSS
PROJECT NUMBER:	
1003-0070-004	

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SHEET TITLE:
MECHANICAL SECTIONS

SHEET ID:
M302

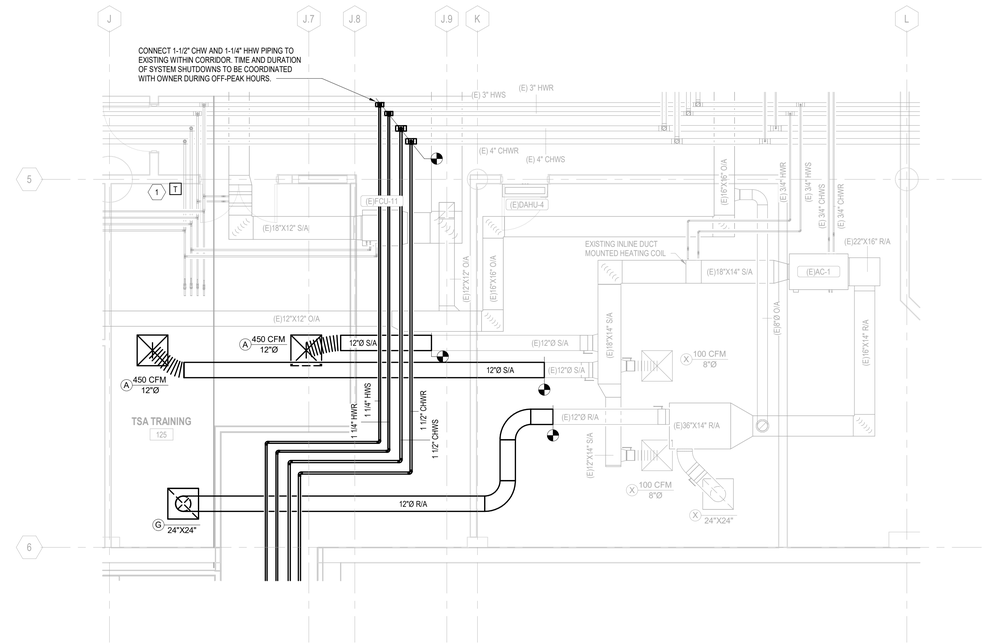
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KEYED NOTES

1. EXISTING THERMOSTAT SERVING (E) AC-1 TO BE RELOCATED TO LOCATION SHOWN.



PN

N

C4 ENLARGED RAMP LEVEL MECHANICAL 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.
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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: KMN
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DESIGNED BY: RSS
PROJECT NUMBER:
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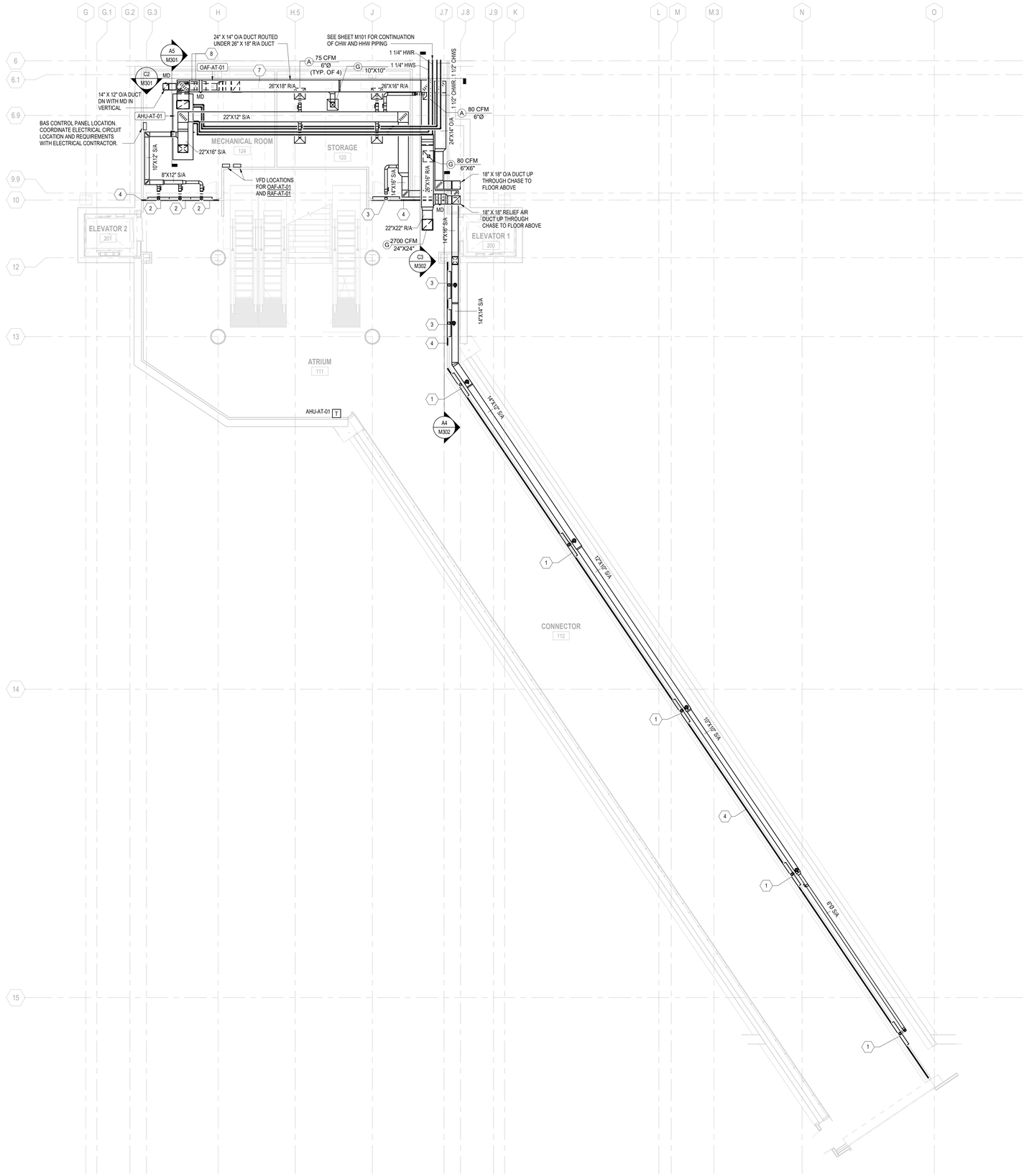
SHEET TITLE:
ENLARGED RAMP LEVEL MECHANICAL PLAN

SHEET ID:
M401

PROJECT STATUS:
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KEYED NOTES

1. SUPPLY DIFFUSER MARK B. 60" PLENUM, 6" INLET, 200 CFM. CONCEALED FRAME INSTALL. SEE AIR DISTRIBUTION SCHEDULE ON M601.
2. SUPPLY DIFFUSER MARK C. 48" PLENUM, 6" INLET, 220 CFM. CONCEALED FRAME INSTALL. SEE AIR DISTRIBUTION SCHEDULE ON M601.
3. SUPPLY DIFFUSER MARK B. 60" PLENUM, 6" INLET, 220 CFM. CONCEALED FRAME INSTALL. SEE AIR DISTRIBUTION SCHEDULE ON M601.
4. 1" ARCHITECTURAL SLOT BETWEEN DIFFUSERS SEE ARCHITECTURAL DETAILS FOR AFF ELEVATION AND CONSTRUCTION.
5. PROVIDE R/A DUCT WITH 1/2" X 1/2" WIRE MESH SCREEN.
6. 6" X 4" TRANSFER AIR DUCT WITH 1/2" X 1/2" WIRE MESH SCREEN ON BOTH ENDS.
7. 24" X 18" O/A DUCT TAPPED OF BOTTOM ROUTED TO OAF-AT-01.
8. 14" X 12" O/A DUCT ROUTED OVER OAF-AT-01. 22" X 22" ECONOMIZER OA DUCT ROUTED UNDER.

ENLARGED RAMP LEVEL MECHANICAL PLAN

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

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

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ILM

PROJECT TITLE:
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KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY: MA
DESIGNED BY: RSS
PROJECT NUMBER: 1003-0070-004

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SHEET TITLE:
ENLARGED RAMP LEVEL MECHANICAL PLAN

SHEET ID:
M402

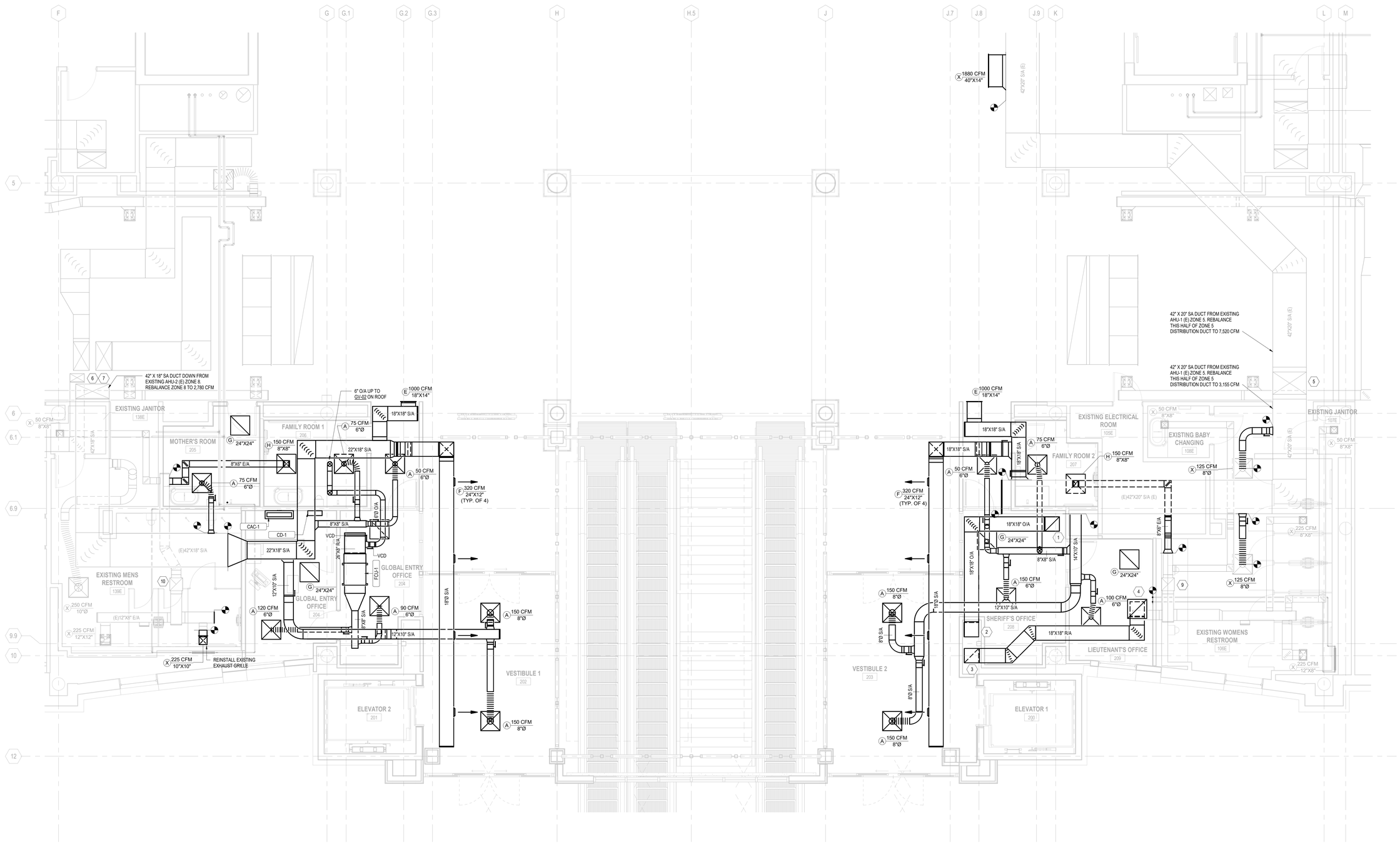
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KEYED NOTES

1. 18" X 18" O/A DUCT UP TO ROOF MOUNTED GRAVITY VENT GV-AT-01.
2. 18" X 18" O/A DUCT UP FROM LEVEL BELOW TO ABOVE CEILING.
3. 18" x 18" RELIEF AIR DUCT UP FROM LEVEL BELOW TO ABOVE CEILING.
4. 18" X 18" RELIEF AIR DUCT UP TO ROOF MOUNTED RELIEF AIR FAN RAF-AT-01.
5. 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 UNIT MAXIMUM AIRFLOW TO 25,650 CFM.
6. 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 UNIT MAXIMUM AIRFLOW TO 25,650 CFM.
7. DEMOLISH AND REPLACE EXISTING DUCT MOUNTED HEATING HOT WATER COIL LOCATED IN MECHANICAL ROOM ABOVE WITHIN THE EXISTING ZONE 8 42"X18" 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 116 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.
8. REBALANCE EXHAUST SYSTEM DUCTWORK AND UTILIZE EXISTING INTEGRAL VARIABLE SPEED MOTOR CONTROLLER TO ADJUST SPEED OF FAN AS NEEDED.
9. REBALANCE EXHAUST SYSTEM DUCTWORK AND UTILIZE EXISTING INTEGRAL VARIABLE SPEED MOTOR CONTROLLER TO ADJUST SPEED OF FAN AS NEEDED.



PN

A1 ENLARGED TICKET LEVEL MECHANICAL PLAN

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

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

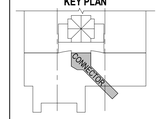
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ILM

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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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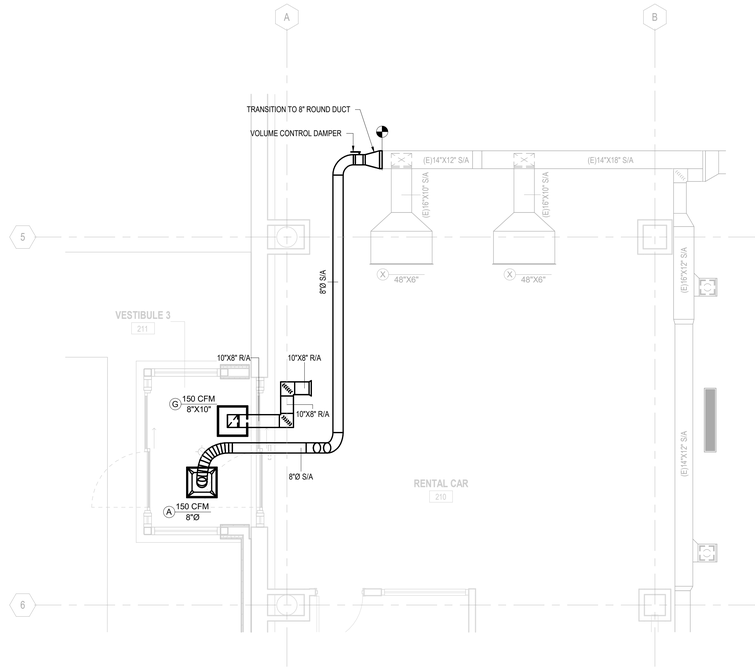
SHEET TITLE:
ENLARGED TICKET LEVEL MECHANICAL PLAN

SHEET ID:
M406

PROJECT STATUS:
100% BID SET

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PN
N

C4 ENLARGED TICKET LEVEL VESTIBULE MECHANICAL PLAN

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

4 0 4 8

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

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REVISIONS

NO.	DESCRIPTION	DATE

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DRAWN BY: MA
DESIGNED BY: RSS
PROJECT NUMBER:
1003-0070-004

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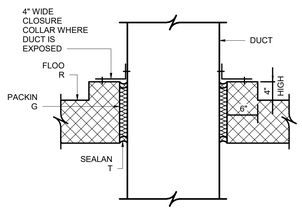
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ENLARGED TICKET LEVEL MECHANICAL PLAN

SHEET ID:
M407

PROJECT STATUS:
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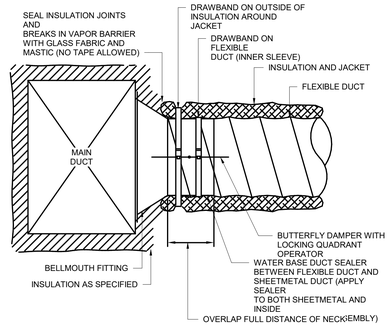


NOTES:

A. DETAIL IS NOT APPLICABLE WHERE FIRE DAMPER, REGISTER, OR DIFFUSER IS PROVIDED.
B. EXTERNALLY INSULATED DUCT SHALL BE CAULKED TO PROVIDE A COMPLETE SEAL BETWEEN THE INSULATION AND CLOSURE COLLAR.

D1 TYPICAL DUCT PENETRATION THRU FLOOR

SCALE: N.T.S.

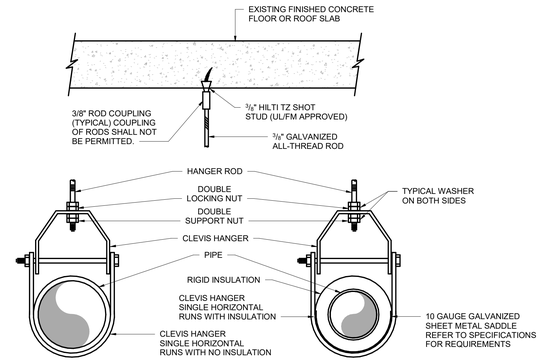


NOTES:

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.



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.

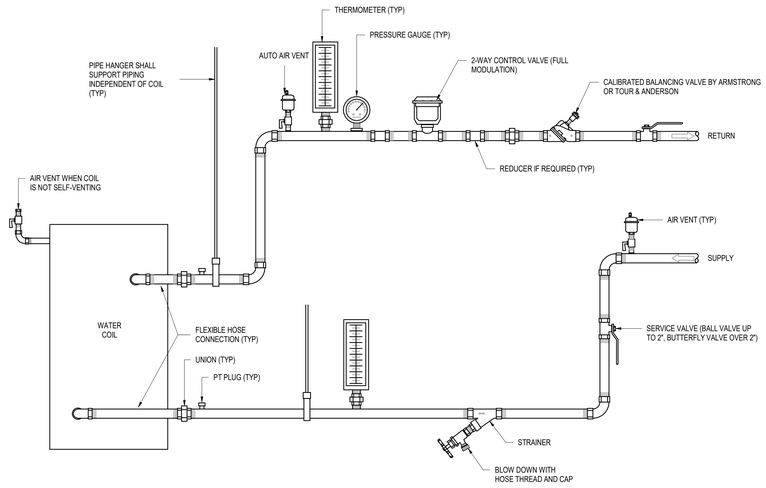
NO COUPLING OF RODS IS PERMITTED!

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.

D3 CLEVIS PIPE HANGER DETAIL

SCALE: N.T.S.

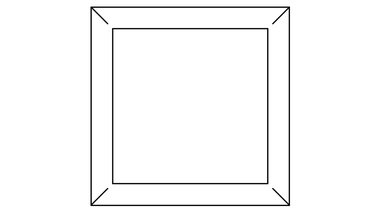


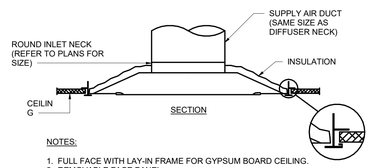
NOTES:

1. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS. NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALVES OR EQUIPMENT.
2. THE WATER FLOW MEASURING DEVICE MAY BE INSTALLED IN THE SUPPLY PIPING IF THE REQUIRED MINIMUM UPSTREAM AND DOWNSTREAM DIMENSIONS CANNOT BE OBTAINED IN THE RETURN PIPE.
3. PROVIDE ALL VALVES WITH EXTENDED STEMS AND ALL GAUGE PORTS WITH EXTENSIONS TO PROTRUDE BEYOND INSULATION.

D4 AIR HANDLING UNIT COIL PIPING DETAIL

SCALE: N.T.S.



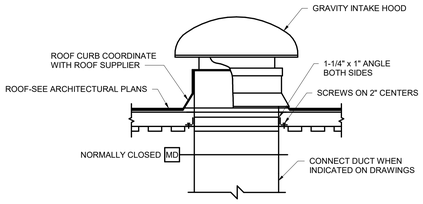


NOTES:

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.

B1 TYPE 'A' SUPPLY AIR DIFFUSER DEATAIL

SCALE: N.T.S.

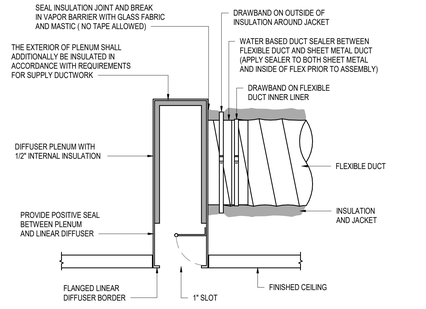


NOTES

1. SIZE OF DUCT THROUGH ROOF IF REQUIRED, SHALL NOT BE LARGER THAN CURB SUPPLIED WITH HOOD.
2. PROVIDE MOTORIZED BACKDRAFT DAMPER
3. COORDINATE CURB CONSTRUCTION WITH ROOFING SLOPE AND DETAILS, SEE ARCHITECTURAL DRAWINGS

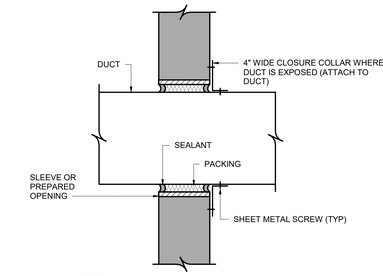
B3 GRAVITY INTAKE HOOD DETAIL

SCALE: N.T.S.



B4 LINEAR SLOT DIFFUSER DETAIL

SCALE: N.T.S.



NOTES:

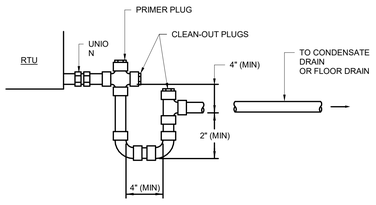
A. DETAIL IS NOT APPLICABLE WHERE FIRE DAMPER, REGISTER, OR DIFFUSER IS PROVIDED.

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.

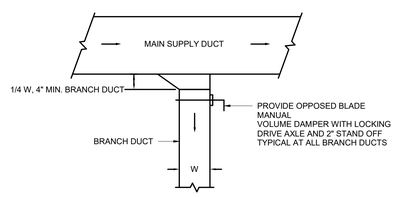


NOTES:

1. CONDENSATE DRAIN SHALL BE PIPED FULL SIZE OF UNIT CONNECTION.
2. CONDENSATE PANS SHALL BE INSTALLED WITH ADEQUATE PITCH TO ENSURE POSITIVE DRAINAGE OF ACCUMULATED CONDENSATE.

A1 CONDENSATE DRAIN DETAIL

SCALE: N.T.S.

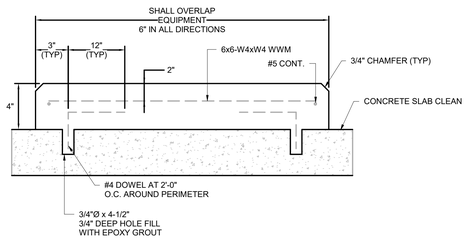


NOTES:

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.

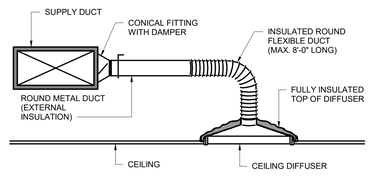


NOTE:

FOR EQUIPMENT INSIDE THE BUILDING.

A4 INTERIOR EQUIPMENT HOUSEKEEPING PAD DETAIL

SCALE: N.T.S.



NOTE:

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

A5 CEILING DIFFUSER RUNOUT 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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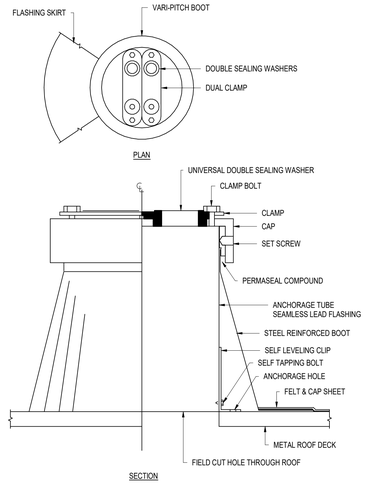
SHEET TITLE:
MECHANICAL DETAILS

SHEET ID:
M501

PROJECT STATUS:
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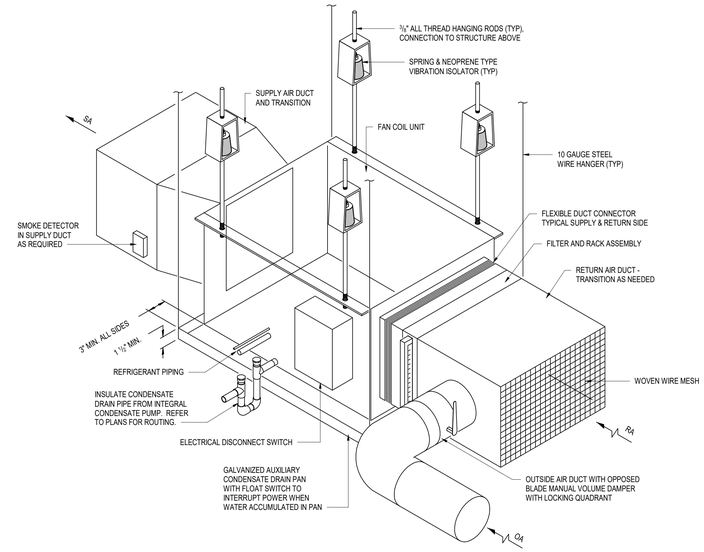
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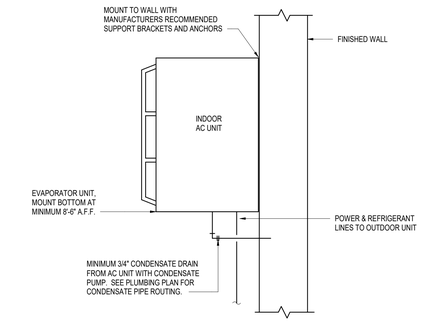
D3 REFRIGERANT PIPING ROOF FLASHING DETAIL

SCALE: N.T.S.



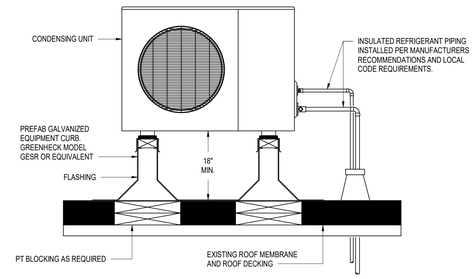
D5 FAN COIL UNIT DETAIL

SCALE: N.T.S.



B5 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.

A5 ROOF MOUNTED CONDENSING UNIT DETAIL

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ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

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SHEET TITLE:

MECHANICAL DETAILS

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100% BID SET

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OUTSIDE AIR FAN SCHEDULE

MARK	OAF-01
FAN TYPE	INLINE
MANUFACTURER	GREENHECK
MODEL	SQ-160-VG
SERVES	AHU-AT-01
AIRFLOW (CFM)	2,700
ESP (IN. W.G.)	0.55
RPM	1141
MOTOR POWER (HP)	2
VOLTAGE / PHASE / HZ	208 / 3 / 60
MCA / MOP	9.4 / 15

NOTES:

1. FACTORY MOUNTED NEC COMPLIANT DISCONNECT
2. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED TO FAN AND AHU OPERATION
3. PROVIDE FAN WITH VFD LOCATED IN MECHANICAL ROOM FOR BALANCING AND MODULATION
4. FAN MOTOR SHALL BE DIRECT DRIVE
5. THERMAL OVERLOAD MOTOR
6. FAN SHALL OPERATE BASED ON INTERLOCK WITH AHU-AT-01 ECONOMIZER SEQUENCE.

RELIEF AIR FAN SCHEDULE

MARK	RAF-AT-01
FAN TYPE	ROOF MOUNTED
MANUFACTURER	GREENHECK
MODEL	CUE-160-A
SERVES	AHU-AT-01
AIRFLOW (CFM)	2,450
ESP (IN. W.G.)	0.6
RPM	1,095
MOTOR POWER (HP)	2
VOLTAGE / PHASE / HZ	208 / 3 / 60
MCA / MOP	9.4 / 15

NOTES:

1. FACTORY MOUNTED NEC COMPLIANT DISCONNECT
2. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED TO FAN AND AHU OPERATION
3. PROVIDE FAN WITH VFD LOCATED IN MECHANICAL ROOM FOR BALANCING AND MODULATION
4. FAN MOTOR SHALL BE DIRECT DRIVE
5. THERMAL OVERLOAD MOTOR
6. FAN SHALL OPERATE BASED ON INTERLOCK WITH AHU-AT-01 ECONOMIZER SEQUENCE.

AIR HANDLING UNIT SCHEDULE

MARK	AHU-AT-01
MANUFACTURER	TRANE
MODEL	CLIMATE CHANGER CSAA006
FAN DATA	
SUPPLY AIRFLOW (CFM)	2,700
OUTSIDE AIRFLOW (CFM)	500
STATIC PRESSURES (IN. W.G.)	
EXTERNAL	1.8
INTERNAL	2.53
TOTAL	4.33
UNIT ELECTRICAL DATA	
FANS	
FAN QUANTITY	1
FAN RPM	1800
FAN MOTOR POWER (HP)	3
FAN MOTOR FLA (V / Ph / Hz)	460 / 3 / 60
UNIT	
FULL LOAD AMPS	4.80
MCA / MOCP	6.00 | 15.0
VOLTAGE / PHASE / HZ	460 / 3 / 60
COOLING DATA	
COOLING AIRFLOW (CFM)	2,700
COOLING FACE VELOCITY MAX. (FPM)	446
TOTAL CAPACITY (BTU/HR)	91,940
SENSIBLE CAPACITY (BTU/HR)	69,120
COOLING ENTERING AIR TEMP. (DB/WB °F)	78.25
COOLING LEAVING AIR TEMP. (DB/WB °F)	55.00 | 54.38
COOLING ROWS	6
COOLING ENTERING WATER TEMP. (°F)	44
COOLING LEAVING WATER TEMP. (°F)	54
COOLING WATER PRESSURE DROP (FT.)	3.43
CHILLED WATER FLOW RATE (GPM)	18.32
HEATING COIL DATA	
HEATING AIRFLOW (CFM)	2,700
HEATING FACE VELOCITY (FPM)	506
HEATING CAPACITY (BTUH)	133,400
HEATING ENTERING AIR TEMP. (°F)	45.00
HEATING LEAVING AIR TEMP. (°F)	85.00
HEATING ROWS	2
HEATING ENTERING WATER TEMP. (°F)	180
HEATING LEAVING WATER TEMP. (°F)	160
HEATING WATER PRESSURE DROP (FT.)	0.17
HEATING WATER FLOW RATE (GPM)	13.32

NOTES:

1. PROVIDE UNIT WITH MANUFACTURER START-UP AND CERTIFIED TEST REPORT.
2. PROVIDE UNIT WITH CLOSED-CELL FOAM DOUBLE WALL CONSTRUCTION WITH FACTORY AND FIELD LEAKAGE TEST.
3. PROVIDE UNIT WITH HINGED AND GASKETED ACCESS PANELS WITH CAM-LOCK LATCHES FOR ALL SERVICE POINTS.
4. PROVIDE UNIT WITH INTERNAL MOTOR/BLOWER VIBRATION ISOLATION.
5. PROVIDE UNIT WITH ECM PLENUM FAN.
6. PROVIDE UNIT WITH TEMPERATURE SENSOR, HUMIDISTAT AND CO2 SENSOR MOUNTED IN RETURN AIR STREAM.
7. PROVIDE UNIT WITH PLUGGED FILTER INDICATOR AND FAN STATUS INDICATOR THAT WILL COMMUNICATE WITH UNIT-MOUNTED CONTROLS.
8. PROVIDE UNIT WITH NON-FUSED ELECTRICAL DISCONNECT SWITCH WITH SINGLE-POINT ELECTRICAL CONNECTION AND REQUIRED MOTOR STARTERS.
9. PROVIDE UNIT WITH STAINLESS STEEL CONDENSATE DRIP PAN WITH INTEGRAL OVERFLOW SWITCH.
10. PROVIDE UNIT WITH MERV 8 PRE AND MERV 13 FINAL FILTERS.
11. PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION.
12. AHU TO BE MOUNTED ON CONCRETE EQUIPMENT PAD ON NEOPRENE WAFFLE PADS SIMILAR TO MASON INDUSTRIES TYPE W.
13. AHU TO SPLIT INTO MINIMUM OF 2 SECTIONS.

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	5' 0" LINEAR SLOT SUPPLY DIFFUSER - SLOT QTY: 1, SLOT WIDTH: 1"	-	PRICE	SDS	2,3,5
C	4' 0" LINEAR SLOT SUPPLY DIFFUSER - SLOT QTY: 1, SLOT WIDTH: 1"	-	PRICE	SDS	2,3,5,8
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	24 X 24	PRICE	PDR	2,5
H	EGGCRATE EXHAUST REGISTER	SEE PLANS	PRICE	80	2,5,6,9
X	EXISTING AIR TERMINAL DEVICE	-	-	-	10

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. PROVIDE PRICE SDS MOUNTING STYLE TYPE 3 FOR CONCEALED MOUNTING INSTALLATION FOR SIDEWALL APPLICATIONS.
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. PROVIDE AND INSTALL SDB PLENUM (OR APPROVED EQUAL) AT THE LOCATIONS SHOWN ON PLAN AND IN THE QUANTITIES AND SIZES SHOWN ON PLAN.
9. PROVIDE WITH GRILLE MOUNTED OPPOSED BLADE DAMPER FOR BALANCING. BASIS OF DESIGN IS THE PRICE MODEL VCSAL DAMPER.
10. INCLUDED FOR REFERENCE ONLY.

O/A GRAVITY VENT SCHEDULE

MARK	GV-AT-01	GV-02
SERVES	AHU-AT-01	FCU-1
AIRFLOW (CFM)	2450	50
MAXIMUM PRESS. DROP (IN. W.G.)	0.075	0.003
THROAT SIZE (INCHES)	28" x 20"	28" x 20"
FREE AREA (SQFT)	4	4.00
OVERALL SIZE	51" x 34"	8" x 8"
MANUFACTURER	GREENHECK	GREENHECK
MODEL	FGR-20X28	GRSI-8
NOTES	1 THRU 3	1 THRU 3

NOTES:

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

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-A0121KA70NA
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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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: MA
DESIGNED BY: RSS
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SHEET TITLE:
MECHANICAL SCHEDULES

SHEET ID:
M601

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100% BID SET

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SEQUENCE OF OPERATIONS: AHU-AT-01

BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED, UNOCCUPIED, ECONOMIZER AND HEAT / COOL MODES. IF A BAS SIGNAL IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS. THE BAS SHALL ALSO SEND THE CONTROLLER A DUCT STATIC PRESSURE SETPOINT (1.2 IN. WC. - ADJ.), ACTIVE DISCHARGE AIR TEMPERATURE SETPOINT, RELATIVE HUMIDITY SETPOINT, AND DAMPER MINIMUM POSITION. THE UNOCCUPIED MODE IS DEFINED BY THE TIME PERIOD BETWEEN 00:00-04:00 (ADJ.).

OCCUPIED MODE:
THE AHU SUPPLY FAN SHALL CONTINUOUSLY RUN, AND THE RETURN AIR AND MINIMUM OUTSIDE AIR DAMPERS SHALL BE IN THE OPEN POSITION. THE INTERLOCKED ECONOMIZER OUTSIDE AIR AND RELIEF AIR FANS SHALL BE DEACTIVATED AND THE ECONOMIZER OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED. THE HOT WATER COIL AND CHILLED WATER COIL SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR SETPOINTS. THE UNIT CONTROLLER SHALL MODULATE THE SUPPLY FAN SPEED VIA VFD IN CONJUNCTION WITH THE HOT AND CHILLED WATER COILS TO MAINTAIN THE SPACE TEMPERATURE SETPOINTS. HEATING AND COOLING SETPOINTS ARE AS FOLLOWS:

COOLING SPACE SETPOINT - 74°F
HEATING SPACE SETPOINT - 68°F

UNOCCUPIED MODE:
THE AHU AND THE INTERLOCKED OUTSIDE AIR AND RELIEF AIR FANS SHALL BE COMMANDED OFF. ALL ASSOCIATED, RETURN, OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE CLOSED. THE UNIT SHALL REMAIN OFF IN UNOCCUPIED MODE UNLESS THE MANUAL BYPASS IS ACTIVATED AT THE BAS. THE UNOCCUPIED MODE SHALL BE BASED ON THE BAS TIMECLOCK SETTING.

MANUAL BYPASS MODE:
THE BAS CONTRACTOR SHALL PROVIDE A MANUAL OVERRIDE WITHIN THE BAS INTERFACE TO PLACE THE SYSTEM INTO OCCUPIED MODE FOR A PERIOD OF 2 HOURS (ADJ.).

OPTIMAL START:
THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

EMERGENCY STOP:
LOCATE AN EMERGENCY STOP BUTTON FOR EACH AHU IN THE MECHANICAL ROOM NEAR THEIR RESPECTIVE DISCONNECTS. WHEN EMERGENCY STOP BUTTON IS PRESSED, THE UNIT OPERATION SHALL BE STOPPED AND AN ALARM SHALL BE GENERATED. UNIT SHALL REVERT TO NORMAL OPERATION UPON CLEARANCE OF ALL ALARM AT THE BAS.

START SEQUENCE:
AHU SHALL ENABLE VIA BAS SIGNAL. THE SUPPLY FAN SHALL BE COMMANDED TO START AND MODULATE TO A PRESET SIGNAL OF 50% (50-100% ADJ.). A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE PRESSURE ACROSS THE SUPPLY AND FAN. IF THE SWITCH DOES NOT OPEN WITHIN 30 SECONDS (ADJ.) AFTER A REQUEST FOR FAN OPERATION A FAN FAILURE ALARM SHALL BE ANNUNCIATED AT THE BAS, THE UNIT SHALL STOP, REQUIRING A MANUAL RESET. ONCE VERIFICATION OF FAN FLOW HAS BEEN CONFIRMED, THE SUPPLY FAN SHALL BE COMMANDED TO THEIR OCCUPIED MODE OF OPERATION.

FAN LOW PRESSURE SWITCHES:
PROVIDE LOW PRESSURE SWITCHES ON THE INLET SIDE EACH FAN INTERLOCKED WITH THE THEIR RESPECTIVE VFDs. LOW PRESSURE CUTOFF SETPOINT TO BE DETERMINED IN THE FIELD DURING TEST AND BALANCING AND/OR COMMISSIONING.

TEMPERATURE CONTROL:
THE UNIT WILL CONTROL TO MAINTAIN DISCHARGE AIR TEMPERATURE AT SET POINT BY SEQUENCING THE CHILL WATER VALVE, AND HEATING HOT WATER VALVE. FOR HEATING AND COOLING MODES THE SUPPLY AIR TEMPERATURE SHALL BE AS FOLLOWS:

COOLING MODE | DISCHARGE AIR - 55°F
HEATING MODE | DISCHARGE AIR - 85°F

HEATING COIL:
THE HEATING COIL WILL MODULATE TO MAINTAIN THE DISCHARGE TEMPERATURE SETPOINT OF 85°F WHEN IN HEATING MODE. WHEN THE UNIT IS SHUTDOWN IN UNOCCUPIED MODE OR UPON A LOSS OF AIRFLOW, THE HEATING COIL WILL BE COMMANDED TO A PRESET POSITION SHOULD THE OUTDOOR AIR TEMPERATURE FALL BELOW THE LOW TEMP CUT-OUT SETPOINT OF 42°F TO MAINTAIN FLOW THROUGH THE COIL.

COOLING COIL:
THE COOLING COIL WILL MODULATE TO MAINTAIN THE DISCHARGE TEMPERATURE SETPOINT OF 55°F WHEN IN COOLING MODE. WHEN THE UNIT IS SHUTDOWN IN UNOCCUPIED MODE, THE COOLING COIL WILL BE COMMANDED TO A PRESET POSITION SHOULD THE OUTDOOR AIR TEMPERATURE FALL BELOW THE LOW TEMP CUT-OUT SETPOINT OF 42°F TO MAINTAIN FLOW THROUGH THE COIL. UPON A LOSS OF AIRFLOW, THE COOLING COIL WILL BE OFF.

ECONOMIZER MODE:
DIFFERENTIAL ENTHALPY ENABLES ECONOMIZER OPERATION WHEN THE OUTDOOR AIR ENTHALPY IS BELOW THE RETURN AIR ENTHALPY - 2.0 BTU/LB. WHEN ECONOMIZER OPERATION IS ENABLED AND THE UNIT IS IN COOLING MODE, THE INTERLOCKED OUTSIDE AIR AND RELIEF AIR FANS SHALL BE POWERED ON, THE ECONOMIZER OUTSIDE AIR AND RELIEF AIR DAMPERS SHALL BE OPENED AND THE MINIMUM OUTSIDE AIR DAMPER SHALL BE CLOSED. THE INTERLOCKED OUTSIDE AIR AND RELIEF AIR FANS SHALL MODULATE BETWEEN 100% AND THEIR MINIMUM OPERATING SPEEDS SET DURING T&B TO MAINTAIN SPACE TEMPERATURE SETPOINT. THE AHU RETURN AIR DAMPER SHALL MODULATE IN RESPONSE TO THE MODULATING ECONOMIZER OUTSIDE AIR FAN TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT AND AIRFLOW SETPOINT. ECONOMIZER MODE SHALL BE PROHIBITED WHEN THE MIXED AIR TEMPERATURE FALLS BELOW 45°F.

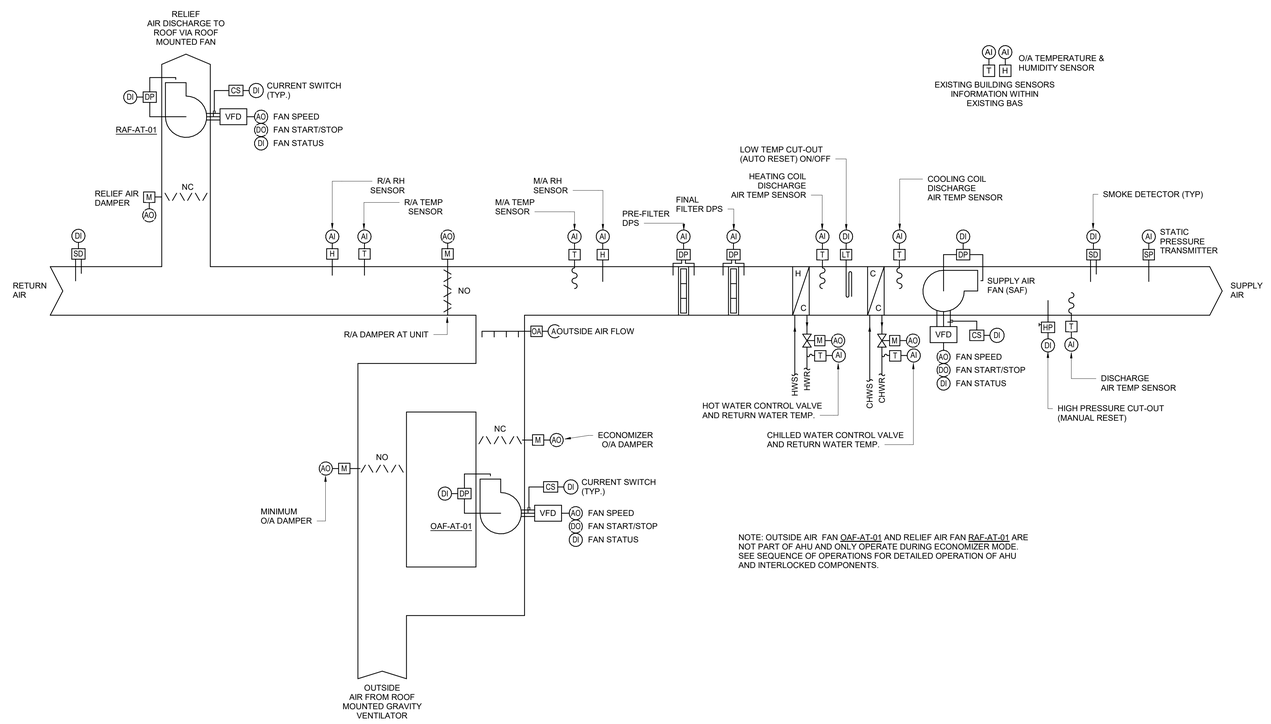
DISCHARGE AIR STATIC PRESSURE HIGH LIMIT:
IF FOR ANY REASON THE DISCHARGE AIR STATIC PRESSURE EXCEEDS THE HIGH LIMIT OF 3.0 IN. W.C. (ADJ.), THE SUPPLY FAN SHALL SHUT DOWN. THE UNIT SHALL BE ALLOWED TO RESTART THREE TIMES AFTER A 15 MINUTE OFF PERIOD. IF THE OVER PRESSURIZATION CONDITION OCCURS ON THE FOURTH RESTART, THE UNIT SHALL SHUT DOWN AND A MANUAL RESET DIAGNOSTIC IS DISPLAYED AT THE REMOTE PANEL AND/OR THE BAS SYSTEM.

FILTER STATUS:
DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTERS. IF THE SWITCH CLOSES FOR 2 MINUTES DURING FAN OPERATION A FILTER MAINTENANCE ALARM SHALL BE ANNUNCIATED AT THE BAS.

SMOKE DETECTOR SHUTDOWN:
THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTORS INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTORS SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTORS. A MANUAL RESET OF THE SMOKE DETECTORS SHALL BE REQUIRED TO RESTART THE UNIT.

COIL LOW TEMPERATURE CONTROL:
THE UNIT CONTROLLER SHALL RECEIVE A SIGNAL FROM THE COIL LOW TEMPERATURE CONTROL SENSOR WHEN IT SENSES A MIXED AIR TEMPERATURE BELOW 33° F (ADJ.). THE OA DAMPERS SHALL CLOSE AND THE HOT WATER COIL SHALL MODULATE TO ITS MAXIMUM FLOW POSITION WHILE THE SUPPLY FAN STAYS IN OPERATION, RECIRCULATING RETURN AIR UNTIL THE MIXED AIR TEMPERATURE RISES ABOVE 35° F (ADJ.).

CONDENSATE OVERFLOW LIMIT:
THE UNIT SHALL SHUTDOWN IN THE RESPONSE TO A HIGH LEVEL SIGNAL FROM THE CONDENSATE DRAIN PAN FLOAT SWITCH.



1 AHU-AT-01 CONTROLS SCHEMATIC DIAGRAM
SCALE: N.T.S.

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ILM

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PROJECT ADDRESS:
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AHU-AT-01 CONTROLS DIAGRAM AND SEQUENCE OF OPERATIONS

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M701

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100% BID SET

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ELECTRICAL ABBREVIATIONS

A	AMPERES
A/C	AIR CONDITIONING
AC	ABOVE COUNTER
AC	AIR COMPRESSOR
ACCU	AIR COOLED CONDENSER UNIT
ACT	ACOUSTIC CEILING TILE
ACU	AIR CONDITIONING UNIT
ADA	AMERICANS WITH DISABILITIES ACT
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
AF	AMP FUSE
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CURRENT
AIR	AMPERE INTERUPTING RATING
AL	ALUMINUM
AMP	AMPERE
AMS	ACCESS MANAGEMENT SYSTEM
AP	ACCESS PANEL
APU	AUXILIARY POWER UNIT
AT/FP	ANTITERRORISM/FORCE PROTECTION
ATR	ALL THREADED ROD
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BCW	BARE COPPER WIRE
BDCT	BUILDING DESIGN AND CONSTRUCTION TEAM
BFG	BELOW FINISHED GRADE
BHS	BAGGAGE HANDLING SYSTEM
BID	BAGGAGE INFORMATION DISPLAY
BTS	BEAM TRANSPORT SYSTEM
C	CONDUIT
CAT6	CATEGORY 6 ETHERNET CABLE
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CC	CRANE CONTROL
CCP	CONCRETE CAMERA POLE
CCTV	CLOSED CIRCUIT TELEVISION
CE	COMMUNICATIONS ENCLOSURE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFL	COMPACT FLUORESCENT
CH	CHILLER
CKT	CIRCUIT
CLP	CONCRETE LIGHT POLE
CMH	COMMUNICATIONS MANHOLE
CMU	CONCRETE MASONRY UNIT
CNTRL	CONTROLLER
CO	CONDUIT ONLY
COMM	COMMUNICATION
CONC	CONCRETE
CP	CONSOLIDATION POINT
CR	CARD READER
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CT	CURRENT TRANSFORMER
CTWP	COOLING TOWER WATER PUMP
CU	COPPER
CUB	CENTRAL UTILITIES BUILDING
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
DCU	DUCTLESS SPLIT AIR CONDITIONING OUTDOOR UNIT
DDC	DIRECT DIGITAL CONTROL PANEL
DH	DOOR HOLDER
DHZ	DAYLIGHT HARVESTING ZONE
DISC	DISCONNECT
DTCO	DOUBLE THROW CENTER OFF
DWG	DRAWING
E	EXISTING
E	EAST
EC	ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EL	ELEVATION
EL	EMERGENCY LIGHT
ELEC	ELECTRIC/ELECTRICAL
EM	EMERGENCY
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMH	ELECTRICAL MANHOLE
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EOR	ENGINEER OF RECORD
EPO	EMERGENCY POWER-OFF
EQ	EQUAL
ER	EXISTING TO BE REMOVED
ERU	ENERGY RECOVERY UNIT
ESS	ENERGY SELECTION SYSTEM
ETSP	ELECTRONIC TRAP SEAL PRIMER
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING TO REMAIN
EXR	EXISTING TO BE RELOCATED
F/P	FAX / PRINTER
FA	FIRE ALARM
FAAA	FIRE ALARM AUDIO AMPLIFIER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGA	FIRE ALARM GRAPHIC ANNUNCIATOR
FAIC	FIRE ALARM INTERFACE CABINET
FAPS	FIRE ALARM POWER SUPPLY
FATC	FIRE ALARM TERMINAL CABINET
FCU	FAN COIL UNIT
FID	FLIGHT INFORMATION DISPLAY
FLA	FULL LOAD AMPS
FLR	FLOOR
FO	FIBER OPTIC
FPB	FAN POWERED TERMINAL BOX
FPU	FAN POWERED TERMINAL UNIT
FS	FLOW SWITCH
FSPC	FLUSH/FAUCET SENSOR POWER CONVERTER
FTU	FAN POWERED VAV TERMINAL UNIT
G	GROUND
GC	GENERAL CONTRACTOR
GDF	GAS DUCT FURNACE
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GFP	GROUND FAULT PROTECTION
GID	GATE INFORMATION DISPLAY
GPU	GROUND POWER UNIT
GR	GROUND ROD
GRC	GALVANIZED RIGID CONDUIT
GUH	GAS UNIT HEATER
GWH	GAS WATER HEATER
HB	HIGH BAY
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
IC	INTERCOM
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
ITC	INTERCOM TERMINAL CABINET
J	JUNCTION
JB	JUNCTION BOX
KAIC	(THOUSAND) AMPERE INTERRUPTING CAPACITY
Kcmil	THOUSANDS OF CIRCULAR MILS
KO	KNOCK OUT
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LBS	LOAD BREAK SWITCH
LC	LIGHTING CONTACTOR
LED	LIGHT EMITTING DIODE
LPS	LIGHTNING PROTECTION SYSTEM
LSI	LONG TIME, SHORT TIME, INSTANTANEOUS
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT
LT	LIGHT
LTG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MNS	MASS NOTIFICATION SYSTEM
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MUFID	MULTI-USER FLIGHT INFORMATION DISPLAY
N	NEUTRAL
N	NORTH
N/A	NOT APPLICABLE
NAC	NOTIFICATION APPLIANCE CIRCUIT
NE	NORTH ENTRANCE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
OAE	OR APPROVED EQUAL
OAHU	OUTSIDE AIR HANDLING UNIT
OH	OVERHEAD
OS	OCCUPANCY SENSOR
P	PHASE
PBB	PASSENGER BOARDING BRIDGE
PBX	PRIVATE BRANCH EXCHANGE
PCHWP	PRIMARY CHILLED WATER PUMP
PIV	POST INDICATOR VALVE
PNEU	PNEUMATIC
PNL	PANELBOARD
PNL	PANEL
POE	POWER OVER ETHERNET
PP	POWER PANEL
PS	PRESSURE SWITCH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYLCHLORIDE
RAF	RETURN AIR FAN
RECP	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMC	RIGID METAL CONDUIT
RTU	ROOF TOP UNIT
S	SOUTH
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCCR	SHORT CIRCUIT CURRENT RATING
SCHWP	SECONDARY CHILLED WATER PUMP
SD	SUB-DISTRIBUTION CABINET
SE	SOUTH ENTRANCE
SEC	SECURITY
SEGB	SERVICE ENTRANCE GROUND BAR
SF	SUPPLY FAN
SHWP	SECONDARY HOT WATER PUMP
SIM	SIMILAR
SLC	SIGNAL LINE CIRCUIT
SN	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
SS	STAINLESS STEEL
SSF	SIDE STREAM FILTER
ST	SHUNT TRIP COIL
STC	SECURITY TERMINAL CABINET
STR	STARTER
STS	STAINLESS STEEL
STS	STATIC TRANSFER SWITCH
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
T	TRANSFORMER
TB	TELEPHONE BACKBOARD
TE	THERMAL ELEMENT
TEFC	TOTALLY ENCLOSED FAN COOLED
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TR	TAMPER RESISTANT
TS	TAMPER SWITCH
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UDS	UTILITY DISTRIBUTION SYSTEM
UG	UNDERGROUND
UGC	UNDERGROUND COMMUNICATIONS
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNSW	UNSWITCHED
UON	UNLESS OTHERWISE NOTED
UT	UTILITY
UTR	UP THROUGH ROOF
V	VOLTS
VAV	VARIABLE AIR VOLUME (HVAC)
VFD	VARIABLE FREQUENCY DRIVE
VFI	VACUUM FAULT INTERRUPTER
VT	VOLTAGE TRANSFORMER
W	WIRE
W	WALL MOUNTED
W	WATTS
W	WEST
WP	WEATHERPROOF
WR	WEATHER-RESISTANT
Y	WYE (CONNECTED)
Z	ZONE
Z	IMPEDANCE

ELECTRICAL SYMBOLS

LIGHTING SYMBOLS

GENERAL NOTE: UPPER CASE LETTER INDICATES LUMINAIRE TYPE, SEE LUMINAIRE SCHEDULE. LOWER CASE LETTER INDICATES SWITCH CIRCUIT.

- RECESSED LUMINAIRE WITH OUTLET
- RECESSED EMERGENCY OR NIGHTLIGHT LUMINAIRE WITH OUTLET
- RECESSED OR SURFACE STANDBY LUMINAIRE WITH OUTLET
- SURFACE LUMINAIRE WITH OUTLET
- SURFACE EMERGENCY OR NIGHTLIGHT LUMINAIRE WITH OUTLET
- SURFACE LUMINAIRE
- STANDBY RECESSED OR SURFACE LUMINAIRE
- EMERGENCY RECESSED OR SURFACE LUMINAIRE
- EMERGENCY WALL LUMINAIRE
- PENDANT LUMINAIRE
- EXTERIOR SURFACE OR RECESSED WALL MOUNTED LUMINAIRE
- EXTERIOR EMERGENCY SURFACE OR RECESSED WALL MOUNTED LUMINAIRE
- CEILING MOUNTED TRACK AND LUMINAIRES
- BOLLARD OR POLE MOUNTED LUMINAIRE WITHOUT ARM
- POLE MOUNTED AREA LUMINAIRE
- POLE MOUNTED DUAL AREA LUMINAIRE
- CEILING MOUNTED EXIT LUMINAIRE, PROVIDE ARROWS AS REQUIRED
- WALL MOUNTED PHOTOCELL
- SINGLE POLE SWITCH
- SINGLE POLE 3-WAY SWITCH
- SINGLE POLE 4-WAY SWITCH
- SINGLE POLE DIMMER SWITCH, 2000 W OR LMDM-101, UON
- SINGLE POLE SWITCH WITH PILOT LIGHT
- SINGLE POLE OCCUPANCY SENSOR SWITCH, WATTSTOPPER PW-301 OR LMPW-100, OAE
- SINGLE POLE KEY OPERATED SWITCH
- SINGLE POLE TIMER OPERATED SWITCH
- SINGLE POLE CEILING FAN SWITCH
- SINGLE POLE LOW VOLTAGE MASTER SWITCH
- SINGLE POLE VACANCY SENSOR SWITCH, WATTSTOPPER CS-50 OR LMDW-101, OAE
- DOUBLE POLE SWITCH
- LOW VOLTAGE, 3 POSITION MOMENTARY, CENTER OFF SWITCH
- CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR, WATTSTOPPER CI-300-1 OR LMPC-100, OAE
- CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER W2000A OR 2 LMUC-100, OAE
- CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER W1000A OR LMUC-100, OAE
- CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER W2000H OR 2 LMUC-100, OAE
- WALL MOUNTED OCCUPANCY SENSOR, WATTSTOPPER CB-100 OR LMDX-100, OAE
- PIR WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR, WATTSTOPPER CB-100 OR LMPX-100, OAE
- OCCUPANCY SENSOR RELAY/POWER PACK
- JUNCTION BOX FOR BACKLIT MIRROR
- JUNCTION BOX FOR REMOTE LED DRIVER
- JUNCTION BOX FOR COLUMN WRAP REMOTE DRIVER

GROUNDING SYSTEMS

- LIGHTNING PROTECTION AIR TERMINAL
- GROUND ROD
- LIGHTNING PROTECTION COND. SPLICE
- GROUND BAR

MOUNTING HEIGHTS

ABOVE COUNTER DEVICES	6" TO BOTTOM WITHOUT BACKSPLASH 4" TO BOTTOM WITH BACKSPLASH
WALL LUMINAIRES	SEE LUMINAIRE SCHEDULE OR KEYNOTE
EXTERIOR SPEAKERS	10'-0" TO CENTER OF BOX, UON
TV OUTLETS & TV RECEPTACLE	72" TO BOTTOM OF BOX, UON
RECEPTACLES IN INDUSTRIAL AREAS	48" AFF TO CENTER LINE, UON
RECEPTACLES	18" AFF TO CENTER LINE, UON
SWITCHES	48" AFF TO CENTER OF BOX, UON
GROUND BAR	18" AFF TO BOTTOM OF BAR OR BOX, UON
EMERGENCY PHONE	54" AFF TO CENTER LINE, UON
CARD READER	48" AFF TO CENTER LINE, UON
EPO SWITCHES	54" AFF TO CENTER LINE, UON
CEILING MOUNTED DEVICES	EQUAL HEIGHT TO ROOM LUMINAIRES

POWER SYSTEMS

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE ABOVE COUNTER
- DUPLEX RECEPTACLE AUTOMATICALLY CONTROLLED
- DUPLEX ISOLATED GROUND RECEPTACLE
- DUPLEX GFCI RECEPTACLE
- DUPLEX RECEPTACLE MOUNTED @ SPECIFIC HEIGHT
- DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT
- DOUBLE DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE ABOVE COUNTER
- DOUBLE DUPLEX RECEPTACLE AUTOMATICALLY CONTROLLED
- SPECIAL RECEPTACLE MOUNTED @ SPECIFIC HEIGHT & NEMA TYPE
- DUPLEX RECEPTACLE IN FLOOR BOX
- DOUBLE DUPLEX RECEPTACLE IN FLOOR BOX
- DUPLEX RECEPTACLE CEILING MOUNTED
- SINGLE POLE MANUAL MOTOR SWITCH
- SINGLE POLE THERMAL ELEMENT SWITCH
- JUNCTION BOX CEILING MOUNTED
- JUNCTION BOX WALL MOUNTED
- JUNCTION BOX IN FLOOR
- DATA RECEPTACLE
- DATA RECEPTACLE IN FLOOR BOX
- DISCONNECT SWITCH FUSED
- DISCONNECT SWITCH NON-FUSED
- COMBINATION MOTOR STARTER FUSED
- PUSH BUTTON START/STOP
- PUSHBUTTON
- LIGHTING RELAY
- TA DISTRIBUTION TRANSFORMER
- AUTOMATIC TRANSFER SWITCH
- SURGE PROTECTIVE DEVICE
- ELECTRONIC WALL CLOCK
- RECEPTACLE ON DROP CORD
- RECEPTACLE ON CORD REEL

ELECTRICAL SYMBOL NOTES

D3 / 1d — THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

E1 / 1 — EXIT LIGHTS: STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER.

1d — DEVICES: THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

d — THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".

PANELBOARDS: PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

FLOOR CLEARANCE AREA

TA — TRANSFORMERS: "TA" INDICATES THE TRANSFORMER IDENTIFIER, SEE ONE-LINE DIAGRAM FOR TRANSFORMER RATING.

XX-1 — MOTOR CONNECTIONS: THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS.

GRAPHICAL REPRESENTATION OF PHASING, TYPICAL FOR ALL SYMBOLS

XX-1 XX-1 XX-1

EXISTING TO REMAIN

NEW

GENERAL NOTES

1. ALL ELECTRICAL WORK MUST COMPLY WITH NATIONAL ELECTRICAL CODE, NFPA 70, THE NATIONAL FIRE CODES, THE AMERICANS WITH DISABILITIES ACT, AND NORTH CAROLINA BUILDING CODES.
2. THOROUGHLY REVIEW THE PROJECT TO ENSURE THAT ALL WORK MUST MEET OR EXCEED THE ABOVE REQUIREMENTS. ANY ALLEGED DISCREPANCIES MUST BE BROUGHT TO THE ENGINEER'S ATTENTION.
3. OBTAIN COPIES OF ALL RELATED PLANS, SPECIFICATIONS, SHOP DRAWINGS AND ADDENDA TO COORDINATE THE RELATED WORK AND SCHEDULING.
4. THE ELECTRICAL SERVICE TO AND FOR MECHANICAL AND OTHER EQUIPMENT IS BASED ON EQUIPMENT DESIGN DATA. THE ACTUAL VALUES MAY DIFFER DEPENDING UPON THE EQUIPMENT TO BE FURNISHED. ANY MODIFICATION TO THE ELECTRICAL INSTALLATION, BASED UPON ACTUAL EQUIPMENT SELECTION, MUST RESULT IN NO ADDITIONAL COST TO THE OWNER.
5. THOROUGHLY REVIEW THE ARCHITECTURAL AND MECHANICAL PLANS TO ENSURE THAT ELECTRICAL SERVICE FOR ALL ITEMS AND/OR EQUIPMENT REQUIRING ELECTRICAL SERVICE IS INCLUDED. ANY ITEM AND/OR EQUIPMENT NOT FURNISHED AND INSTALLED WITH ELECTRICAL SERVICE, REQUIRING ELECTRICAL SERVICE, MUST BE BROUGHT TO THE ENGINEER'S ATTENTION.
6. MECHANICAL, FIRE PROTECTION AND ELECTRICAL EQUIPMENT HAVE BEEN LOCATED AND ARRANGED TO MINIMIZE THE INTERFERENCES OF EQUIPMENT AND STRUCTURE. THOROUGHLY FAMILIARIZE ONESELF WITH THE WORK TO BE PERFORMED BY OTHER TRADES AND THE PHYSICAL CHARACTERISTICS OF THE STRUCTURE IN ORDER TO SCHEDULE AND INSTALL EQUIPMENT AND TO MINIMIZE POSSIBLE INTERFERENCE. FAILURE TO PROPERLY COMMUNICATE AND SCHEDULE WORK WITH OTHER TRADES THAT RESULTS IN ADDITIONAL WORK AND MATERIAL MUST BE THE RESPONSIBILITY OF THE CONTRACTOR. THE MODIFICATIONS REQUIRED TO RESOLVE THE CONFLICT MUST BE DECIDED BY THE ENGINEER.
7. ALL PANELBOARDS MUST BE FURNISHED AND INSTALLED WITH A TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT, INCLUDING OFFICIAL ROOM NUMBER. HANDWRITTEN SCHEDULES ARE NOT ACCEPTABLE.
8. ALL LIGHT SWITCHES AND DUPLEX RECEPTACLES MUST BE RATED FOR 20 AMPERES AT 120/277 VOLTS AC. WIRING DEVICES MUST BE SPECIFICATION GRADE.
9. ALL ELECTRICAL WIRING DEVICES INDICATED TO BE INSTALLED IN MASONRY WALLS OR FLOORS MUST BE FLUSH MOUNTED, INCLUDING BRANCH CIRCUIT PANELBOARDS, UON. THE CONDUITS TO ASSOCIATED ELECTRICAL EQUIPMENT MUST BE CONCEALED IN WALLS OR FLOOR.
10. ALL CONDUIT RUNS MUST BE CONCEALED, UON.
11. THE LUMINAIRE SCHEDULE IS FOR REFERENCE ONLY. MODEL NUMBERS LISTED MAY NOT INCLUDE ALL REQUIRED OPTIONS, HOWEVER, THESE OPTIONS MUST BE FURNISHED AND INSTALLED WITH THE LUMINAIRES. ALL SUBSTITUTIONS ARE SUBJECT TO PRIOR APPROVAL AS EQUAL BY THE ENGINEER OF RECORD.
12. ALL EXIT LIGHTS MUST BE FURNISHED AND INSTALLED WITH UNIVERSAL MOUNTING BRACKETS. VERIFY ALL DIRECTIONAL ARROWS WITH ARCHITECTURAL EGRESS PLANS PRIOR TO ORDERING LUMINAIRES.
13. FURNISH THE AIR CONDITIONING SUBCONTRACTOR AND THE CEILING SUBCONTRACTOR COPIES OF APPROVED LUMINAIRE SHOP DRAWINGS.
14. ALL RECESSED LUMINAIRES IN FIRE RATED CEILINGS MUST BE TENTED TO COMPLY WITH THE APPLICABLE CEILING RATING. VERIFY REQUIREMENTS.
15. ALL COMMUNICATIONS OUTLET BOXES MUST BE MIN. 4" WIDE BY 4" HIGH BY 2 1/2" DEEP WITH SINGLE GANG MUD RING.
16. FURNISH AND INSTALL 1" C FROM COMMUNICATIONS OUTLET TO THE ACCESSIBLE CEILING SPACE, UON. FURNISH AND INSTALL CABLING AS REQUIRED. CABLE ROUTING WILL BE VIA CONDUIT (INACCESSIBLE SPACES) OR J" HOOKS AND CABLE TRAY SYSTEM (ACCESSIBLE SPACES) TO COMMUNICATION ROOM OR ROOM OF TERMINATION. FURNISH AND INSTALL RACEWAY SYSTEM OVER THE INACCESSIBLE CEILING SPACE AS INDICATED ON PLANS. COMMUNICATIONS CONDUITS ARE TO BE LONG RADIUS TYPE AND MUST CONTAIN PULL STRINGS. FURNISH AND INSTALL PLATES FOR ALL OUTLETS. CAT6 CABLES MUST BE PLENUM RATED.
17. ALL SPECIAL PURPOSE OUTLETS MUST BE FURNISHED AND INSTALLED TO MATCH EQUIPMENT TO BE SUPPLIED.
18. THE PLANS INDICATE THE DESIRED ARRANGEMENT AND GENERAL LOCATIONS OF LUMINAIRES. THE ARCHITECTURAL CEILING PLANS INDICATE ADDITIONAL DATA AS TO THE FINAL FIXTURE PLACEMENT.
19. ALL CONDUITS MUST INCLUDE A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR.
20. ANY EXISTING UTILITIES LOCATED IN THE AREA OF CONSTRUCTION THAT REQUIRE RELOCATION OR TIE-IN MUST BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. PROVIDE 72 HOUR ADVANCE NOTICE.
21. ALL DISCONNECT SWITCHES MUST BE THE HEAVY DUTY TYPE. FUSED DISCONNECTS MUST HAVE LITTLEFUSE TIME DELAY, CLASS RK5 AND INDICATING CLASS RK5.
22. CHECK THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND/OR DIMENSIONS FOR INSTALLATION OF ALL ELECTRICAL ITEMS. ALL QUESTIONABLE LOCATIONS MUST BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
23. ALL EMPTY CONDUITS MUST CONTAIN JET LINE #232 POLYOLEFIN 200 LB. TEST PULL STRING.
24. ALL WORK SHOWN ON THE ELECTRICAL PLANS MUST BE PERFORMED BY THE CONTRACTOR, UON.
25. ALL EXIT FIXTURES MUST BE CONNECTED TO THE BUILDING LIFE SAFETY PANEL AND/OR HAVE INTEGRAL EMERGENCY BATTERY.
26. ALL SURGE PROTECTED OUTLETS MUST BE EQUAL TO HUBBELL #5352.
27. EQUIPMENT INSTALLED WITHIN CONCEALED SPACES MUST HAVE REASONABLE ACCESS PANELS FURNISHED AND INSTALLED NEARBY FOR INSPECTION, TESTING, AND SERVICE CONSIDERATIONS. LOCATION OF ACCESS PANELS PER APPROVAL OF ARCHITECT/ENGINEER.
28. SECURITY WIRING MUST BE IN CONDUIT AND MUST BE A SEPARATE, COMPLETE, AND FULLY FUNCTIONAL SYSTEM.
29. VERIFY CEILING TYPES AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING LUMINAIRES.
30. WHERE CABLES OR CONDUITS ARE REQUIRED TO PASS THROUGH A FIRE RATED WALL, FLOOR, OR CEILING THEY MUST BE SEALED WITH FIRESTOP. THE APPROVED FIRESTOP METHOD MUST COMPLY WITH ARTICLES 300.21 OF NEC AND MUST BE UL LISTED UNDER "THROUGH-PENETRATION FIRESTOP SYSTEM (XHEZ)" IN UL FIRE RESISTANCE DIRECTORY. ALL UNSPRINKLERED FACILITIES MUST BE CONSIDERED TO HAVE INTERIOR CORRIDORS WITH FIRE RATED WALLS, UNO. ANY PENETRATION THROUGH THESE WALLS AND OTHER FIRE RATED WALLS MUST BE SEALED WITH FIRESTOP. FURNISH AND INSTALL MINIMUM 1" EMT THROUGH WALL PENETRATIONS.
31. SPARE CONDUITS, WIREWAYS, AND CABLE TRAYS MUST BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM OTHER PIPES, DUCTS, OR EXISTING RACKS, UON.
32. EXTERIOR BURIED CONDUIT RUNS MUST BE MINIMUM 24" BELOW FINISHED GRADE. FURNISH AND INSTALL CAUTION TAPE 12" BELOW GRADE. FURNISH AND INSTALL (1) SPARE WITH EACH UNDERGROUND RUN. DUCT BANKS MUST BE CONCRETE ENCASED WITH LOCATION PLAQUES PLACED EVERY 50' AND BEFORE AND AFTER EVERY TURN, UON. SUBMIT SHOP DRAWINGS BEFORE DIGGING.
33. FURNISH AND INSTALL GROUND STRAP ACROSS ALL CABLE TRAY JOINTS. GROUND CABLE TRAY TO SERVICE GROUND WITH #1/0 AWG BARE COPPER.
34. ALL CONDUIT BENDS FOR COMMUNICATIONS WIRING MUST BE SMOOTH LONG RADIUS TYPE. "LB" TYPE FITTINGS MUST NOT BE USED FOR COMMUNICATION RACEWAY.
35. DO NOT LOCATE ELECTRICAL OUTLETS AND DEVICES ON WALL PANEL JOINTS. REFER TO ARCHITECTURAL BUILDING ELEVATIONS FOR WALL PANEL LAYOUT AND PANEL JOINT LOCATIONS.
36. FURNISH AND INSTALL A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR OF SINGLE POLE BRANCH CIRCUITS THAT SERVE HIGH HARMONIC LOADS, SUCH AS, BALLAST OR SWITCH MODE POWER SUPPLIES (I.E. PERSONAL COMPUTERS AND SERVERS).
37. RACEWAYS INSTALLED IN OUTDOOR LOCATIONS MUST BE HOT DIPPED GALVANIZED, AT MINIMUM, FOR CORROSION RESISTANCE. FOR HIGHLY CORROSIVE ENVIRONMENTS, SUCH AS COASTAL AREAS, ALUMINUM, STAINLESS STEEL, OR PVC COATED RACEWAYS MUST BE REQUIRED.
38. POWER CHANGE EXPENSES RESULTING FROM EQUIPMENT SUBSTITUTIONS THAT DIFFER FROM ITEMS CALLED FOR IN DRAWINGS OR SPECIFICATIONS MUST BE BORNE BY THE CONTRACTOR OR THEIR SUB. THESE MUST INCLUDE CHANGES IN VOLTAGE OR FULL LOAD AMPS RESULTING IN LARGER FEEDERS AND OR CIRCUIT BREAKERS.
39. COORDINATE FINAL ELECTRICAL DEVICE AND LUMINAIRE LOCATIONS WITH FINAL SPRINKLER HEAD LOCATIONS TO COMPLY WITH NFPA REQUIREMENTS.
40. WATERPROOF RECEPTACLE COVER MUST BE WP EXTRA DUTY WHILE IN-USE TYPE.
41. ALL EXISTING ELECTRICAL DEVICES THAT ARE NOT SHOWN ARE EXISTING TO REMAIN, UON.
42. COORDINATE WITH DIVISION 23 FOR DISCONNECT REQUIREMENTS ON MECHANICAL EQUIPMENT. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR INFORMATION. FURNISH AND INSTALL DISCONNECTS FOR THOSE DEVICES THAT DO NOT COME WITH FACTORY INSTALLED DISCONNECTS.
43. BEFORE INITIATING ANY UNDERGROUND WORK, LOCATE ALL UTILITIES.
44. INTERIOR FIRE ALARM CONDUCTORS MUST BE INSTALLED IN RED EMT CONDUIT. EXTERIOR FIRE ALARM CONDUIT MUST BE RED RMC CONDUIT.
45. RAMP LEVEL CONDUIT INSTALLED IN UNCONDITIONED AIR SPACE MUST BE RMC WITH COMPRESSION FITTINGS. CONDUIT LEAVING TENANT SPACE MUST BE 1) LABELED BEFORE AND AFTER THE WALL PENETRATED BY THE CONDUIT. 2) LABELED EVERY 50' OR ON EVERY 90 DEGREE TURN. LABEL MUST BE 1 1/2" LABEL TAPE IDENTIFYING THE ORIGIN AND DESTINATION (ROOM NAME AND NUMBER), CIRCUIT NUMBER AND SYSTEM NAME.

NOTE: THIS IS A MASTER SYMBOL LIST NOT ALL SYMBOLS WILL APPLY TO THIS PROJECT.

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

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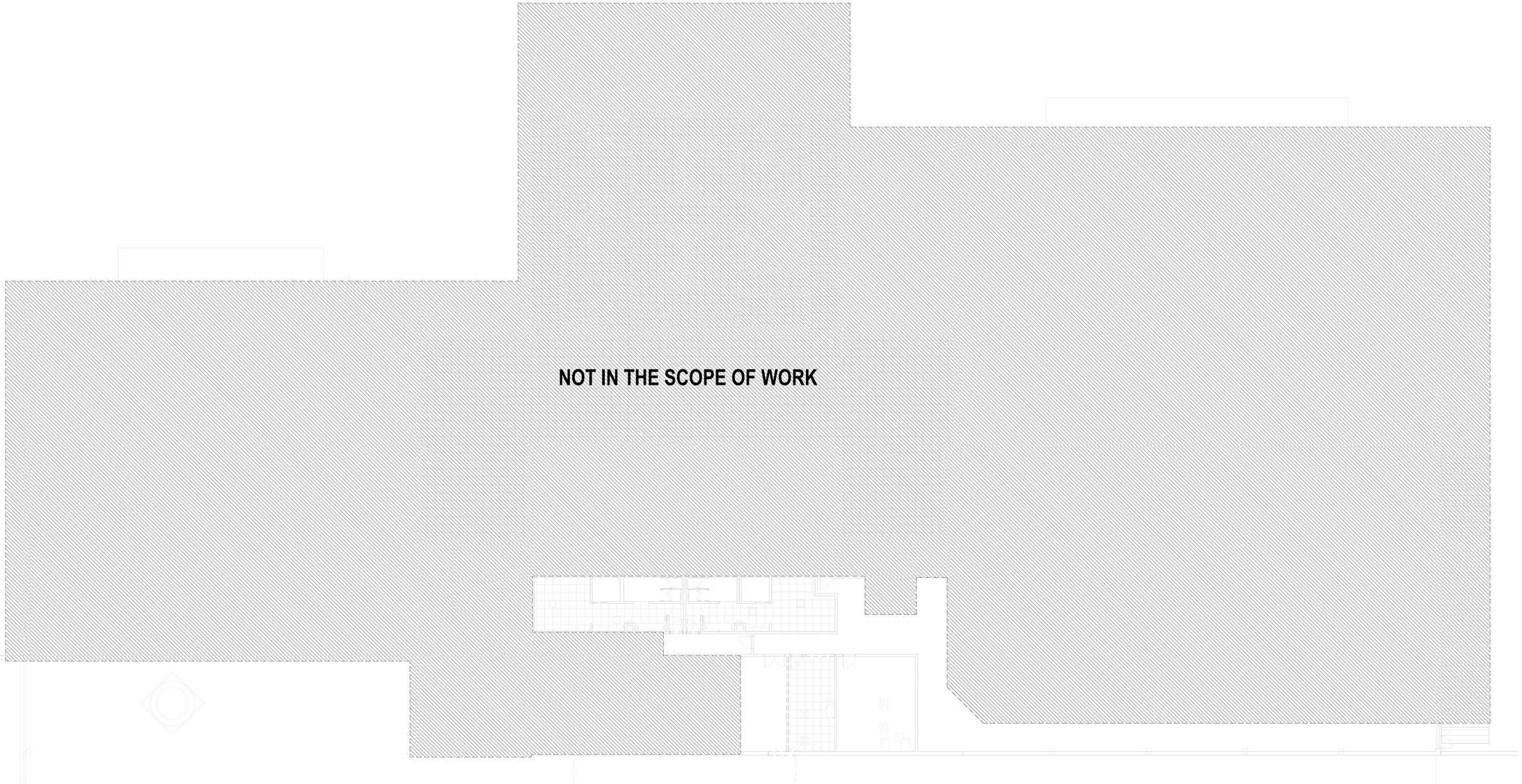
SHEET TITLE:
ELECTRICAL GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

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E001

PROJECT STATUS:
100% BID SET

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3/14/2025 1:33:26 P.M. Autodesk Docs://1003007004_ILM TOH Rdwy Intl Improv Design/2003007006_ILM_TOH_Terminal and Tunnel_E_R24.rvt



PN N

A1 OVERALL RAMP LEVEL ELECTRICAL DEMOLITION PLAN

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

8 0 8 16 24

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

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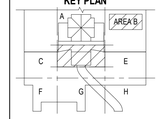
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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

2003-0070-006

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SEAL:

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SHEET TITLE:
OVERALL RAMP LEVEL ELECTRICAL DEMOLITION PLAN

SHEET ID:
ED101

PROJECT STATUS:
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DEMOLITION LEGEND

XD = EXISTING MUST BE REMOVED

XM = EXISTING MUST BE MOVED TO NEW LOCATION

XN = EXISTING MUST BE REPLACED WITH NEW DEVICE IN NEW LOCATION

XP = EXISTING IN RELOCATED POSITION

EX = EXISTING MUST REMAIN

XS = EXISTING MUST BE REPLACED WITH NEW DEVICE IN SAME LOCATION

NOTE 1: EXISTING ITEMS NOT SHOWN MUST REMAIN AS INDICATED.

NOTE 2: THE REMOVAL, REPLACEMENT, OR RELOCATION OF EQUIPMENT MUST BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UON.

GENERAL NOTES

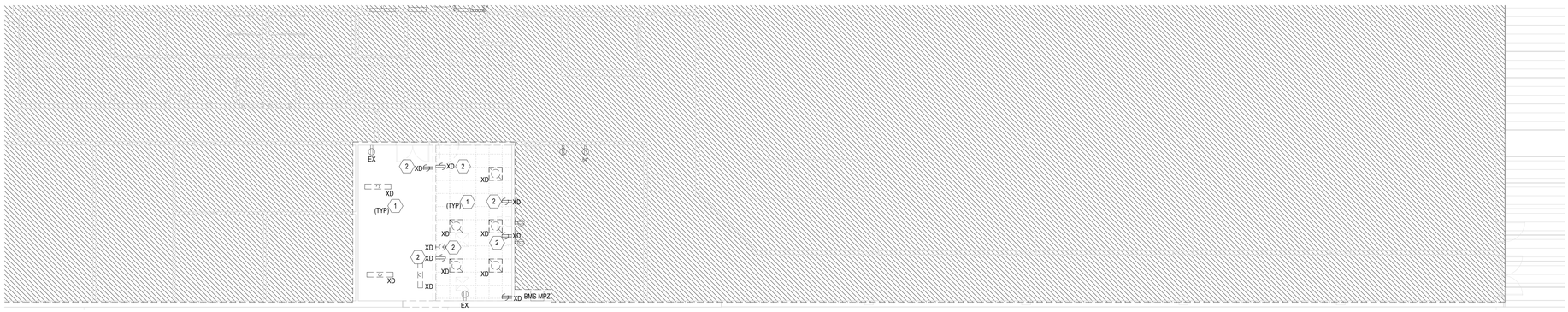
A. VERIFY ALL REMAINING LOADS THAT ARE ON CIRCUITS WITH LOADS THAT ARE BEING REMOVED ARE FUNCTIONING POST DEMOLITION. CIRCUIT NUMBERS SHOWN ARE BASED ON AS-BUILT DOCUMENTATION AND PRELIMINARY SITE INVESTIGATIONS. ALL CIRCUITS INVOLVED ARE TO BE TRACED PRIOR TO THE REMOVAL OF LOADS. PROVIDE UPDATED PANEL SCHEDULES PRIOR TO CONSTRUCTION.

B. ALL PANELBOARDS AND TRANSFORMERS ARE EXISTING TO REMAIN. REMOVE AND REUSE UON. SEE KEYNOTES AND DEMO LEGEND.

KEYNOTES

1 EXISTING LIGHTING TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO LAST REMAINING LOAD ON THE CIRCUIT. IF NO LOADS REMAIN REMOVE COMPLETE BACK TO SOURCE.

2 EXISTING ELECTRICAL DEVICE TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO LAST REMAINING LOAD ON THE CIRCUIT. IF NO LOADS REMAIN REMOVE COMPLETE BACK TO SOURCE.



PN N

A1 PARTIAL RAMP LEVEL ELECTRICAL DEMOLITION PLAN

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

8 0 8 16

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

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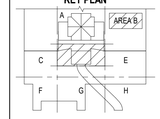
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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:
PARTIAL RAMP LEVEL ELECTRICAL DEMOLITION PLAN

SHEET ID:
ED102

PROJECT STATUS:
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PN N

A1 OVERALL TICKETING LEVEL DEMOLITION PLAN

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

16 0 16 32

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

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ILM

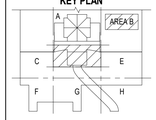
PROJECT TITLE:

ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

PROJECT ADDRESS:

1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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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 DEMOLITION PLAN

SHEET ID:

ED106

PROJECT STATUS:

100% BID SET

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DEMOLITION LEGEND

XD = EXISTING MUST BE REMOVED

XM = EXISTING MUST BE MOVED TO NEW LOCATION

XN = EXISTING MUST BE REPLACED WITH NEW DEVICE IN NEW LOCATION

XP = EXISTING IN RELOCATED POSITION

EX = EXISTING MUST REMAIN

XS = EXISTING MUST BE REPLACED WITH NEW DEVICE IN SAME LOCATION

NOTE 1: EXISTING ITEMS NOT SHOWN MUST REMAIN AS INDICATED.

NOTE 2: THE REMOVAL, REPLACEMENT, OR RELOCATION OF EQUIPMENT MUST BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UON.

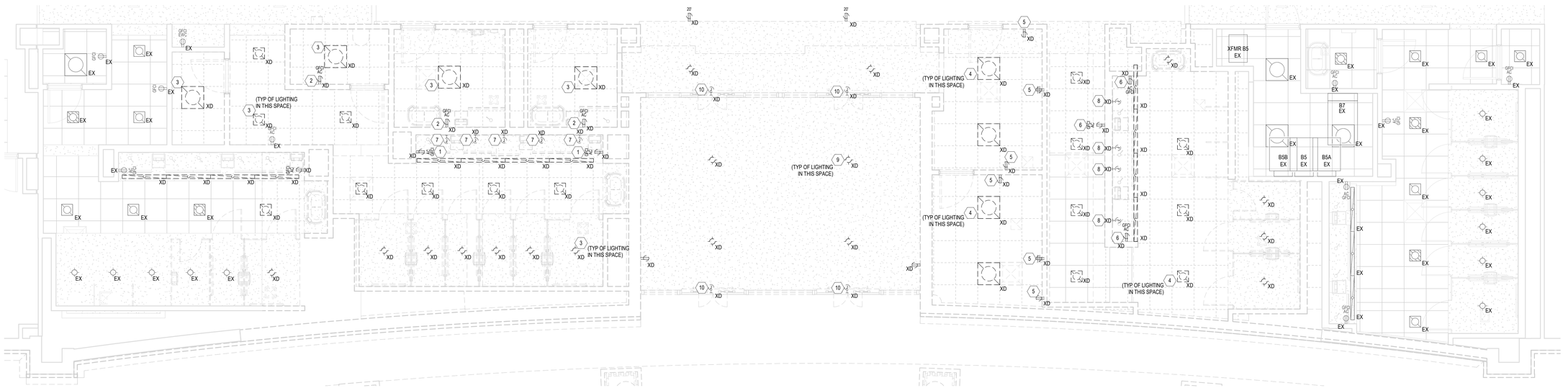
GENERAL NOTES

A. VERIFY ALL REMAINING LOADS THAT ARE ON CIRCUITS WITH LOADS THAT ARE BEING REMOVED ARE FUNCTIONING POST DEMOLITION. CIRCUIT NUMBERS SHOWN ARE BASED ON AS-BUILT DOCUMENTATION AND PRELIMINARY SITE INVESTIGATIONS. ALL CIRCUITS INVOLVED ARE TO BE TRACED PRIOR TO THE REMOVAL OF LOADS. PROVIDE UPDATED PANEL SCHEDULES PRIOR TO CONSTRUCTION.

B. ALL PANELBOARDS AND TRANSFORMERS ARE EXISTING TO REMAIN. REMOVE AND REUSE CIRCUITS PER KEYNOTES AND DEMO LEGEND.

KEYNOTES

1 EXISTING CIRCUIT B5B-12 TO BE DEMOLISHED REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
2 EXISTING DEVICES TO BE REMOVED FROM CIRCUIT B5B-13. REMOVE CONDUIT AND CONDUCTORS BACK TO LAST REMAINING DEVICE.
3 EXISTING LIGHTING TO BE REMOVED FROM CIRCUIT GDP-11. REMOVE CONDUIT AND CONDUCTORS BACK TO LAST REMAINING LUMINAIRE.
4 EXISTING LIGHTING TO BE REMOVED FROM CIRCUIT GDP-13. REMOVE CONDUIT AND CONDUCTORS BACK TO LAST REMAINING LUMINAIRE.
5 EXISTING CIRCUIT B5B-17 TO BE DEMOLISHED REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
6 EXISTING CIRCUIT B5B-10 TO BE DEMOLISHED REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
7 EXISTING CIRCUIT B5A-19 TO BE DEMOLISHED REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
8 EXISTING CIRCUIT B5A-23 TO BE DEMOLISHED REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE.
9 EXISTING VESTIBULE LIGHTING TO BE REMOVED. REMOVE CONDUIT AND CONDUCTORS BACK TO LAST REMAINING LOAD ON THE EXISTING CIRCUIT.
10 REMOVE EXISTING SLIDING DOOR OPERATOR CIRCUITS BACK TO LAST REMAINING LOAD ON THE CIRCUIT, IF NO LOADS REMAIN REMOVE COMPLETE BACK TO SOURCE.



PN N

A1 PARTIAL TICKET LEVEL ELECTRICAL DEMOLITION PLAN

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

4 0 4 8

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

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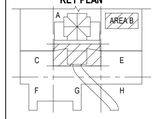
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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:
PARTIAL TICKETING LEVEL ELECTRICAL DEMOLITION PLAN - AREA B

SHEET ID:
ED107

PROJECT STATUS:
100% BID SET

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DEMOLITION LEGEND

XD = EXISTING MUST BE REMOVED

XM = EXISTING MUST BE MOVED TO NEW LOCATION

XN = EXISTING MUST BE REPLACED WITH NEW DEVICE IN NEW LOCATION

XP = EXISTING IN RELOCATED POSITION

EX = EXISTING MUST REMAIN

XS = EXISTING MUST BE REPLACED WITH NEW DEVICE IN SAME LOCATION

NOTE 1: EXISTING ITEMS NOT SHOWN MUST REMAIN AS INDICATED.

NOTE 2: THE REMOVAL, REPLACEMENT, OR RELOCATION OF EQUIPMENT MUST BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UON.

GENERAL NOTES

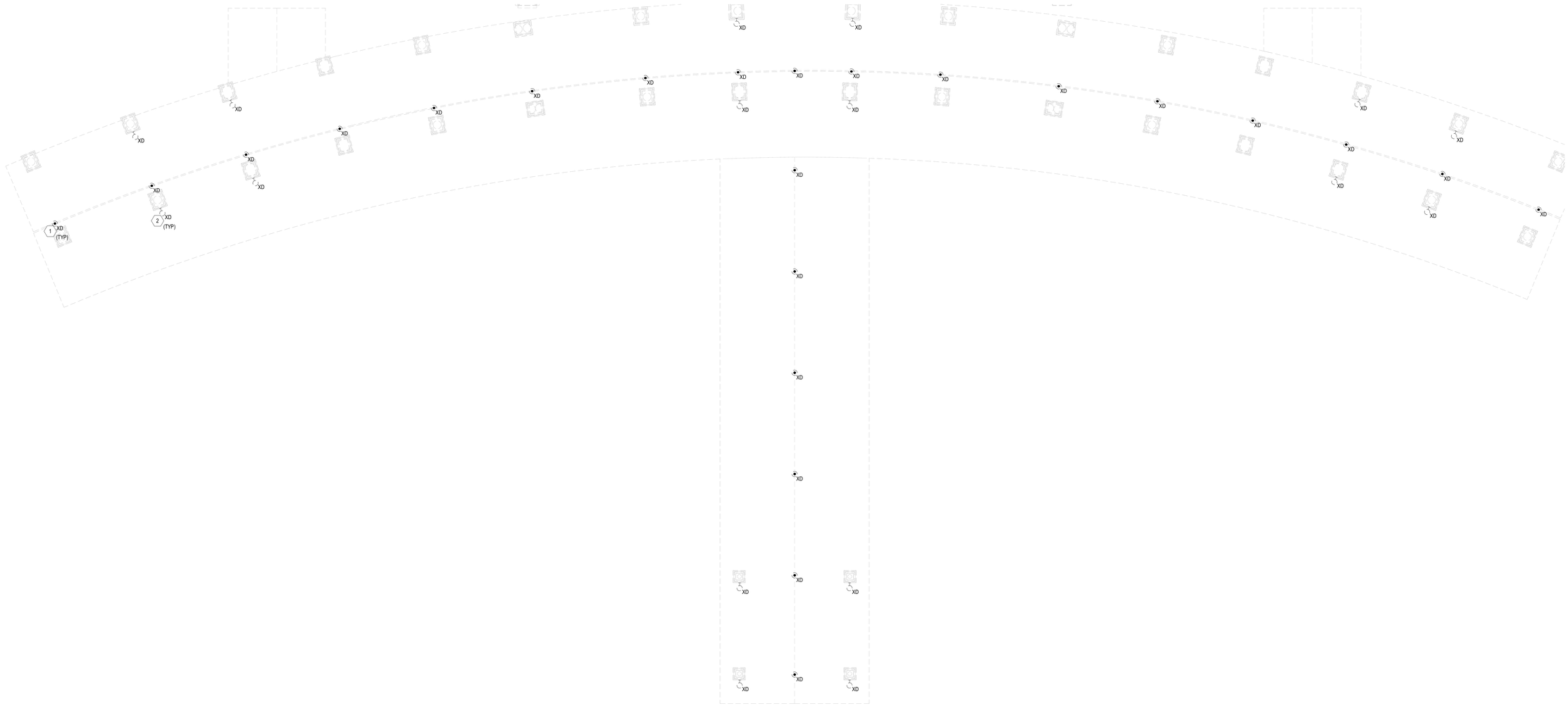
A. VERIFY ALL REMAINING LOADS THAT ARE ON CIRCUITS WITH LOADS THAT ARE BEING REMOVED ARE FUNCTIONING POST DEMOLITION. CIRCUIT NUMBERS SHOWN ARE BASED ON AS-BUILT DOCUMENTATION AND PRELIMINARY SITE INVESTIGATIONS. ALL CIRCUITS INVOLVED ARE TO BE TRACED PRIOR TO THE REMOVAL OF LOADS. PROVIDE UPDATED PANEL SCHEDULES PRIOR TO CONSTRUCTION.

B. ALL PANELBOARDS AND TRANSFORMERS ARE EXISTING TO REMAIN. REMOVE AND REUSE CIRCUITS PER KEYNOTES AND DEMO LEGEND.

KEYNOTES

1 EXISTING CANOPY LIGHTNING PROTECTION SYSTEM TO BE DEMOLISHED, REMOVE ALL EXISTING AIR TERMINALS, ROOF CONDUCTORS, AND DOWN CONDUCTORS.

2 ALL EXISTING CANOPY LIGHTING TO BE REMOVED. REMOVE CIRCUITS BACK TO LAST REMAINING LOAD ON THE CIRCUIT, IF NO EXISITNG LOADS REMAIN REMOVE EXISTING CIRCUITS BACK TO SOURCE.



PN N

A1 PARTIAL TICKET LEVEL ELECTRICAL DEMOLITION PLAN - AREA D

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

8 0 8 16

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

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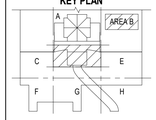
Hartranft Lighting Design

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: 3/14/2025
REVIEWED BY: RS&H
DRAWN BY: BWG
DESIGNED BY: CRD
PROJECT NUMBER:
2003-0070-006

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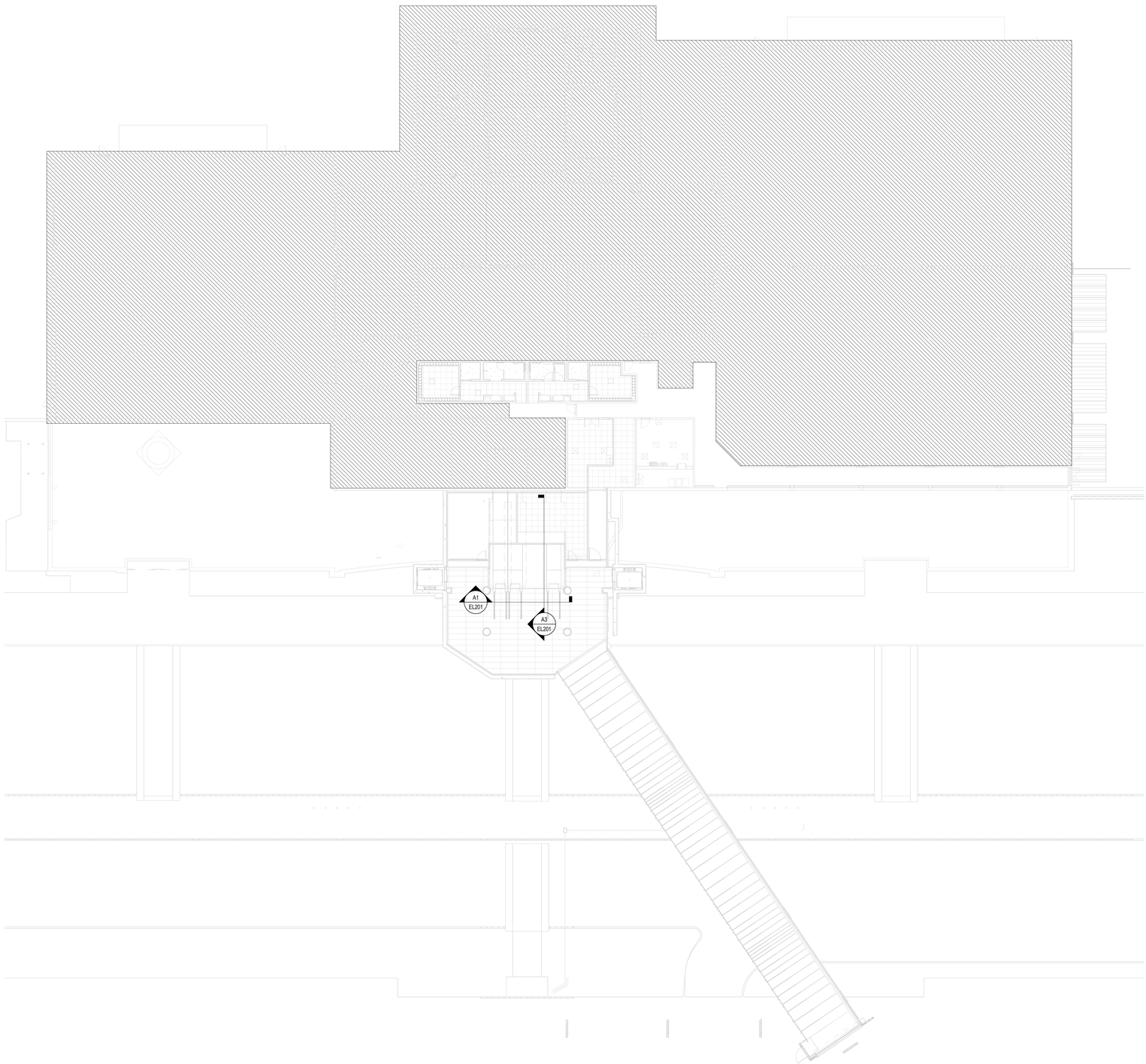
SHEET TITLE:
PARTIAL TICKETING LEVEL ELECTRICAL DEMOLITION PLAN - AREA D

SHEET ID:
ED108

PROJECT STATUS:
100% BID SET

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PN N A1 OVERALL RAMP LEVEL ELECTRICAL LIGHTING PLAN

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

16 0 16 32

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

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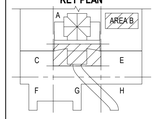
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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 RAMP LEVEL ELECTRICAL LIGHTING PLAN

SHEET ID:
EL101

PROJECT STATUS:
100% BID SET

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GENERAL NOTES

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

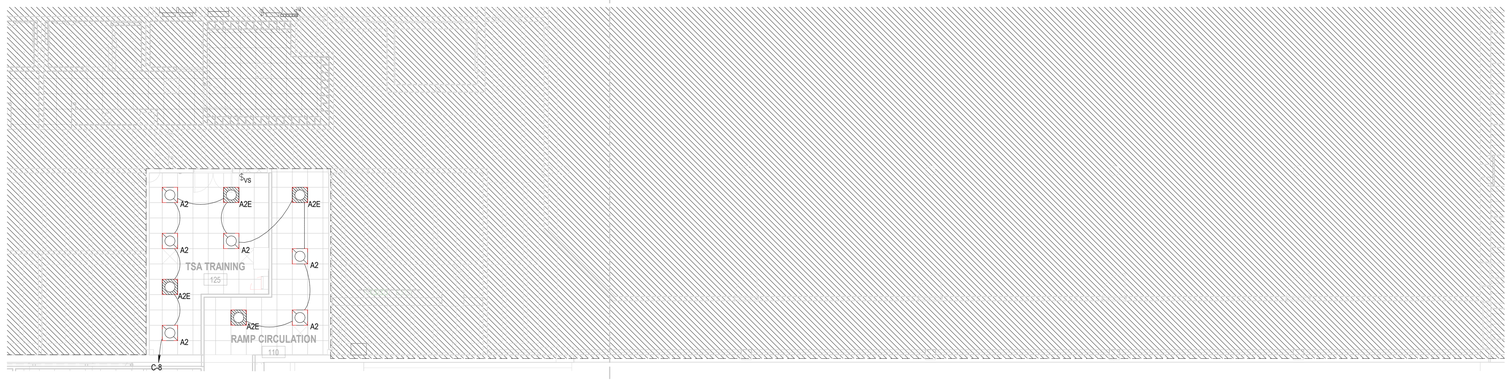
B. ALL EXTERIOR LUMINAIRES CONTROLLED VIA PHOTOCELL VIA LIGHTING SYSTEM CONTROL.

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.



PN N

A1 PARTIAL RAMP LEVEL ELECTRICAL LIGHTING PLAN

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

8 0 8 16 24

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

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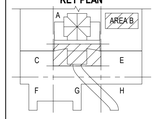
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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:

PARTIAL RAMP LEVEL ELECTRICAL LIGHTING PLAN

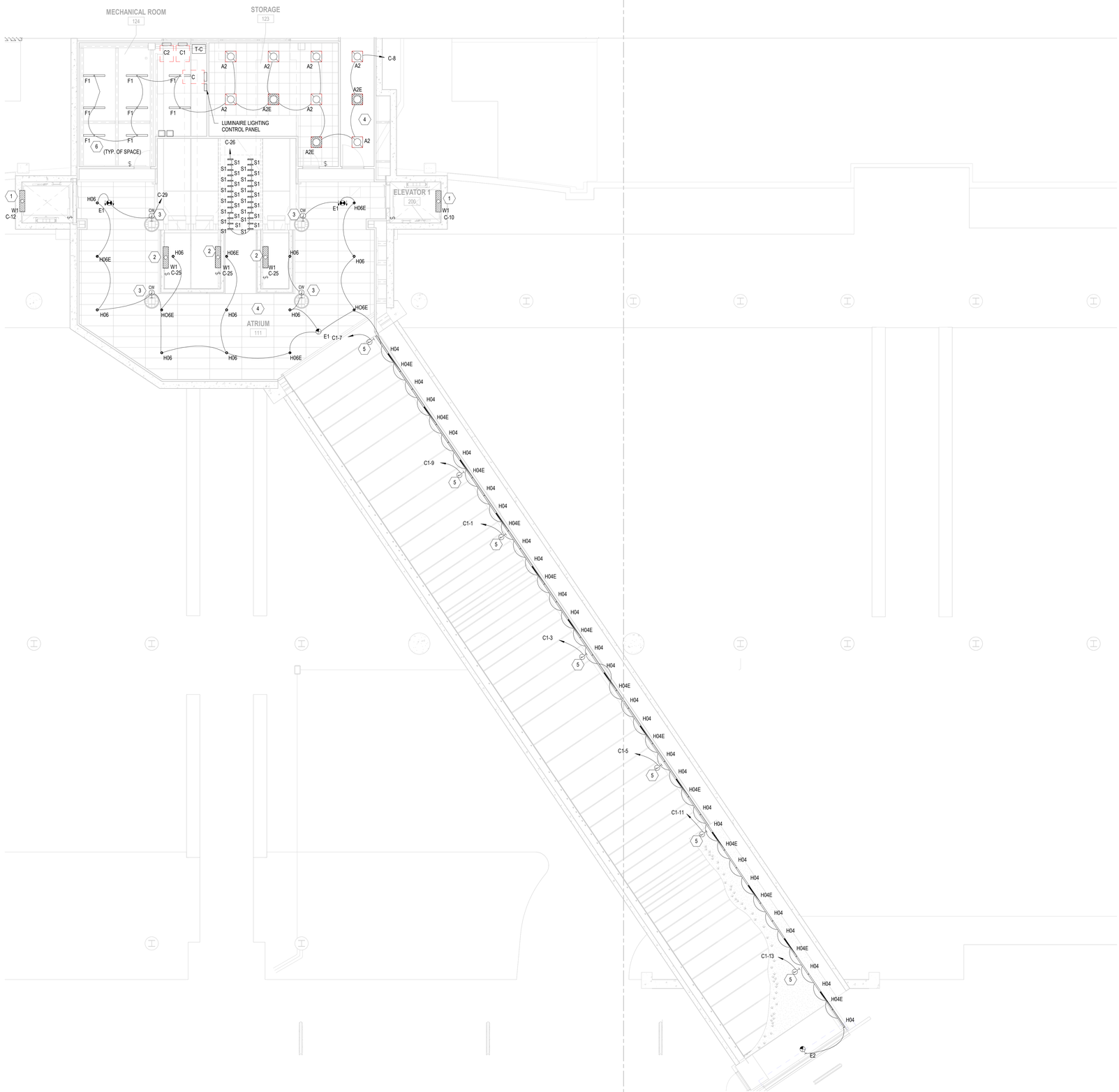
SHEET ID:

EL102

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 ELEVATOR PIT LIGHTING, COORDINATE MOUNTING WITH ELEVATOR EQUIPMENT LOCATION. PIT LIGHTING AND LIGHTING CONTROLS TO COMPLY WITH ASME 17.1.

2 ESCALATOR PIT LIGHTING, COORDINATE MOUNTING WITH ESCALATOR EQUIPMENT LOCATION. PIT LIGHTING AND LIGHTING CONTROLS TO COMPLY WITH ASME 17.1.

3 JUNCTION BOX FOR REMOTE LED DRIVER FOR BACKLIT COLUMN WRAP. LUMINAIRE AND ALL ASSOCIATED DRIVERS TO BE PROVIDED AND INSTALLED WITH COLUMN WRAP. DIVISION 26 SHALL POWER ONLY. COORDINATE EXACT LOCATION OF JUNCTION BOX IN THE FIELD.

4 LUMINAIRES SHALL BE CONTROLLED BY LUMINAIRE LIGHTING CONTROLLER AND PROGRAMED TIME SCHEDULE. TYPICAL FOR ALL AREAS WITHOUT LOCAL CONTROL.

5 SENSITILE CONNECTOR WALL DISPLAY. DIVISION 26 SHALL POWER ONLY. ELECTRICAL CONNECTION LOCATIONS ARE APPROXIMATE, COORDINATE EXACT LOCATION IN THE FIELD.

6 COORDINATE LUMINAIRE MOUNTING HEIGHT AND LOCATION WITH MECHANICAL SYSTEM, ESCALATOR AND STAIR INSTALLATION.

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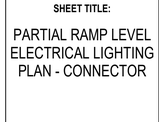
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
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WILMINGTON, NC 28405

KEY PLAN



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DRAWN BY:	BWG
DESIGNED BY:	CRD

PROJECT NUMBER:
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SHEET TITLE:
PARTIAL RAMP LEVEL ELECTRICAL LIGHTING PLAN - CONNECTOR

SHEET ID:
EL103

PROJECT STATUS:
100% BID SET

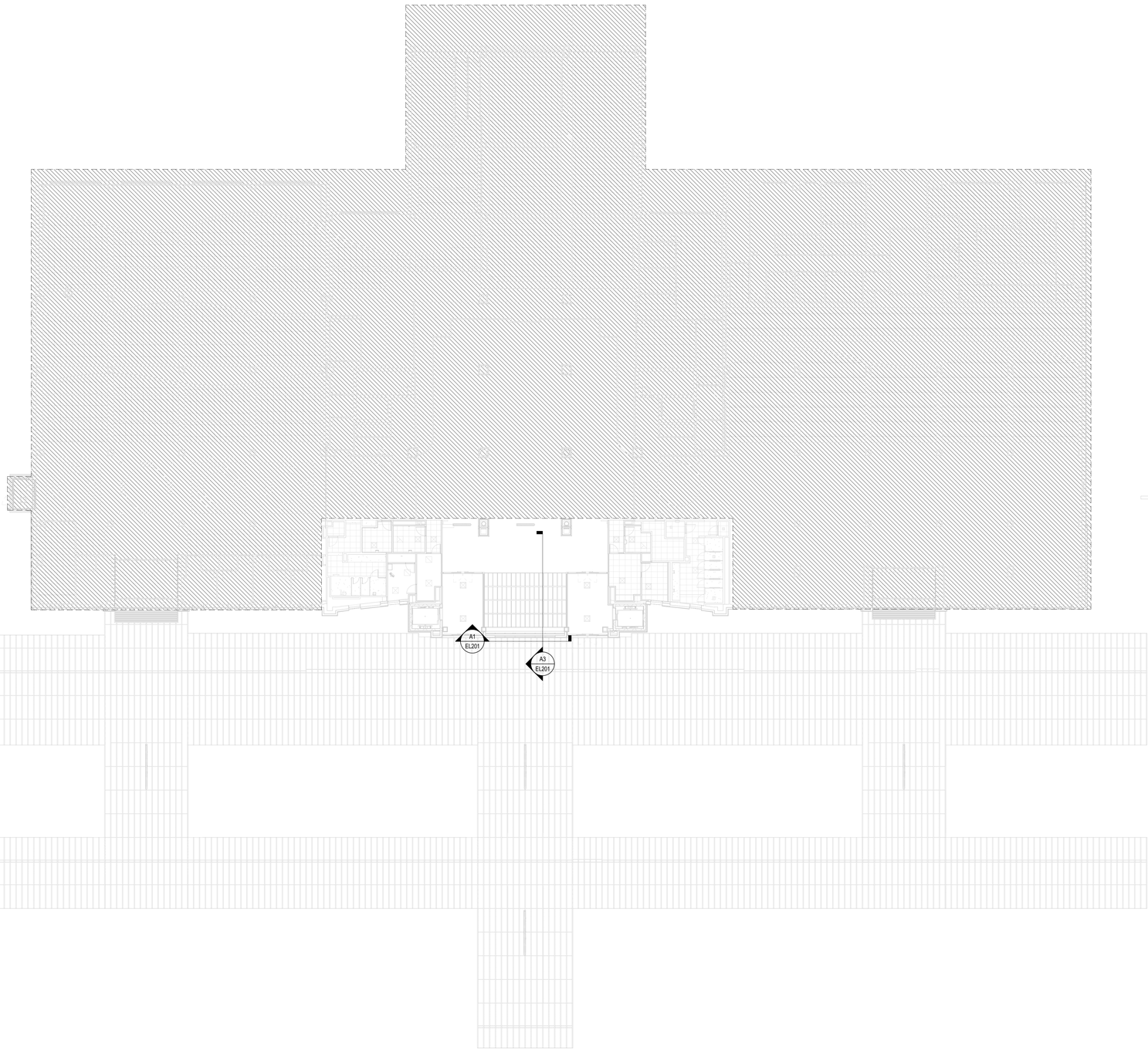
PN N

A1 PARTIAL RAMP LEVEL ELECTRICAL LIGHTING PLAN - CONNECTOR
SCALE: 1/8" = 1'-0"

8 0 8 16 24
SCALE: 3/32" = 1'-0"

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A1 OVERALL TICKETING LEVEL ELECTRICAL LIGHTING PLAN

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

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

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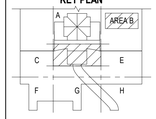
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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

SHEET ID:

EL106

PROJECT STATUS:
100% BID SET

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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.

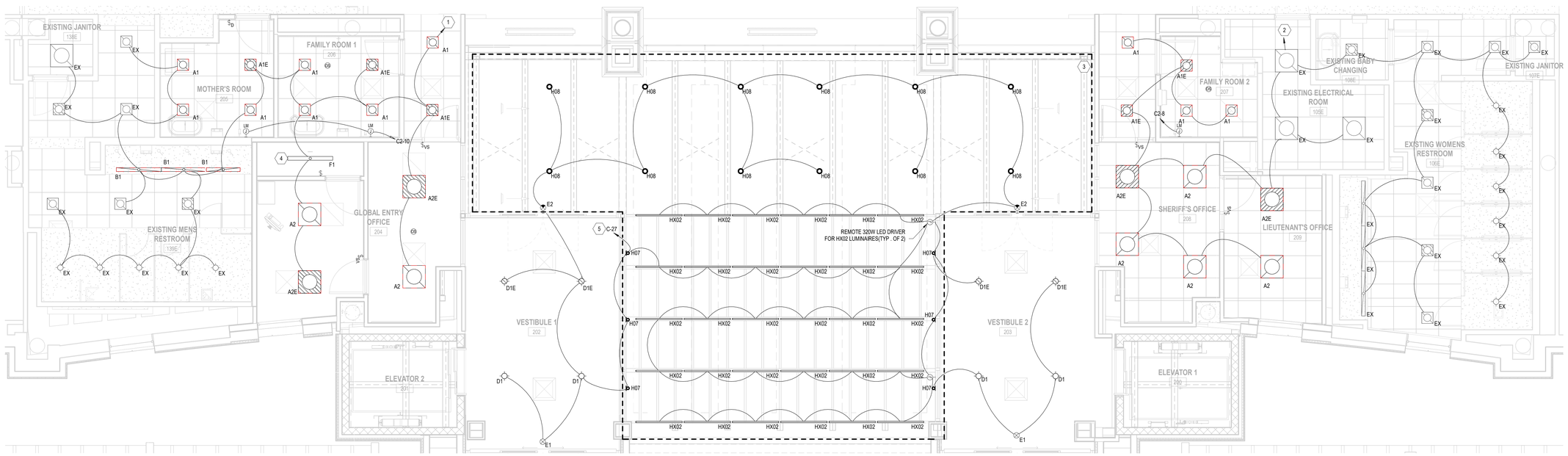
D. NEW LUMINAIRES WITH DESIGNATION "HXX" OR "HXXX" ARE BEING DESIGNED BY HARTRANFT LIGHTING DESIGN. SEE HARTRANFT PROVIDED LUMINAIRE SCHEDULES ON SHEETS EL601 AND EL602

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 LUMINAIRES IN THIS AREA SHALL BE CONTROLLED BY DAYLIGHT SENSOR VIA LIGHTING CONTROLLER.
4 SURFACE MOUNT TO HARD CEILING.
5 LUMINAIRES SHALL BE CONTROLLED BY LUMINAIRE LIGHTING CONTROLLER AND PROGRAMED TIME SCHEDULE, TYPICAL FOR ALL AREAS WITHOUT LOCAL CONTROL.



PN N

A1 PARTIAL TICKETING LEVEL ELECTRICAL LIGHTING PLAN - AREA B

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

4 0 4 8

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

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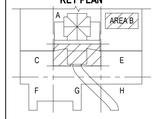
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ILM

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

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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	3/14/2025
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DRAWN BY:	BWG
DESIGNED BY:	CRD
PROJECT NUMBER:	2003-0070-006

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

SHEET ID:
EL107

PROJECT STATUS:
100% BID SET

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GENERAL NOTES

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

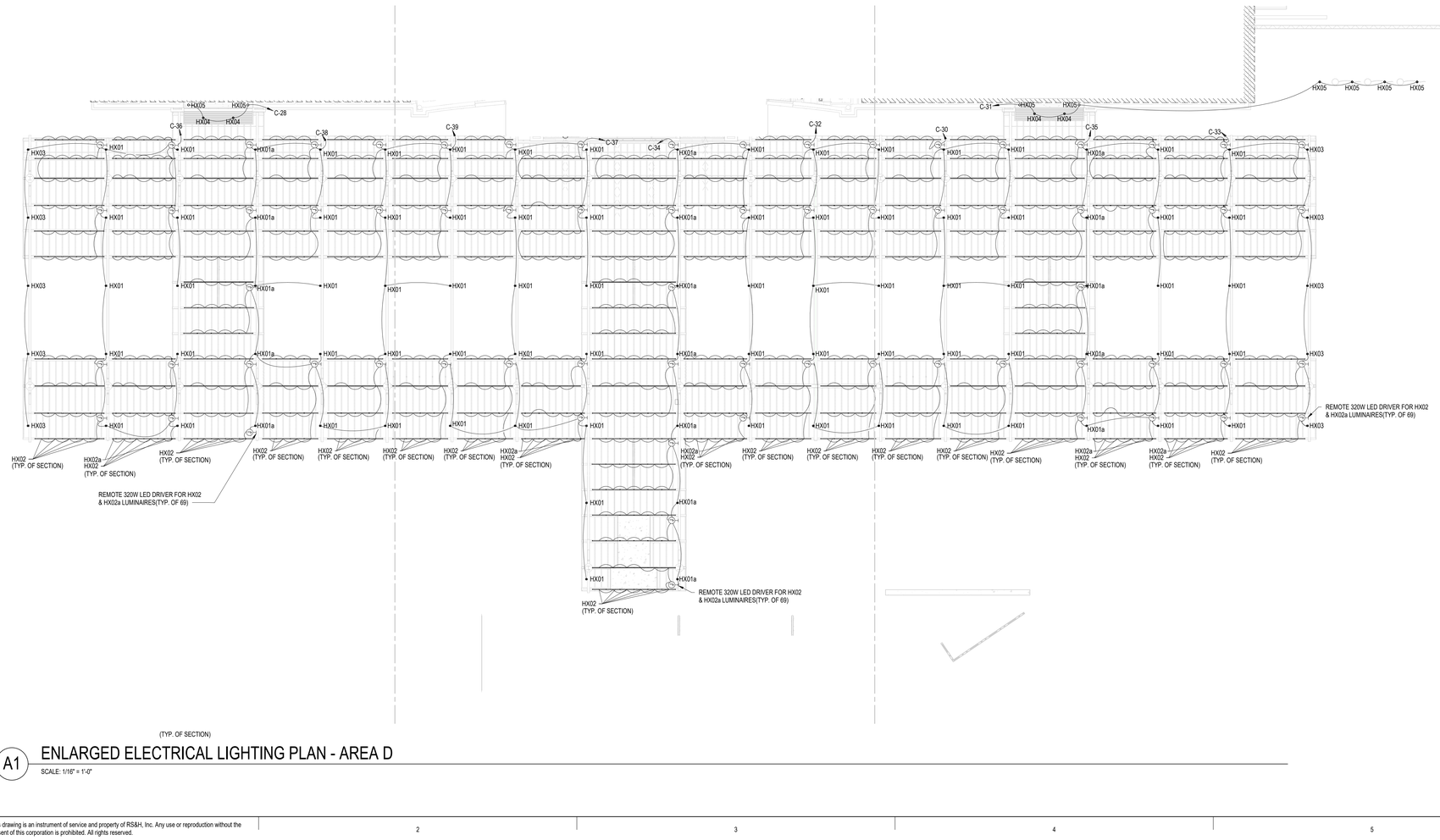
B. ALL EXTERIOR LUMINAIRES CONTROLLED VIA PHOTOCELL VIA LIGHTING SYSTEM CONTROL.

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 LIGHTING CONTROL SYSTEM. LOCATED IN MECHANICAL RM 124. SEE LUMINAIRE SCHEDULES ON SHEET EL601 AND EL 602 LUMINAIRES CONTROLLED VIA DMX SYSTEM.



(TYP. OF SECTION)

PN N

A1 ENLARGED ELECTRICAL LIGHTING PLAN - AREA D

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

16 0 16 32

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

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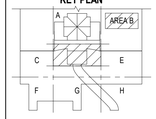
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ILM

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

PROJECT ADDRESS:
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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	3/14/2025
REVIEWED BY:	RS&H
DRAWN BY:	BWG
DESIGNED BY:	CRD
PROJECT NUMBER:	**2003-0070-006**

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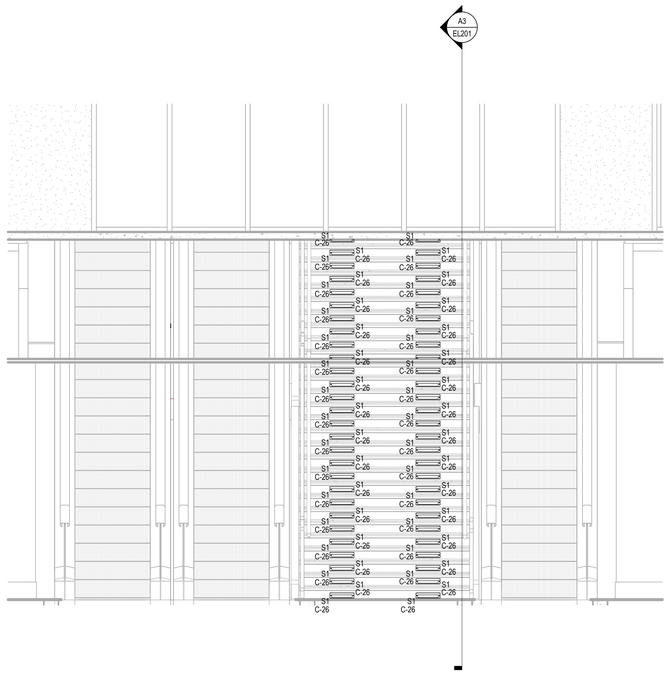
SHEET TITLE:
PARTIAL ELECTRICAL LIGHTING PLAN - AREA D

SHEET ID:
EL108

PROJECT STATUS:
100% BID SET

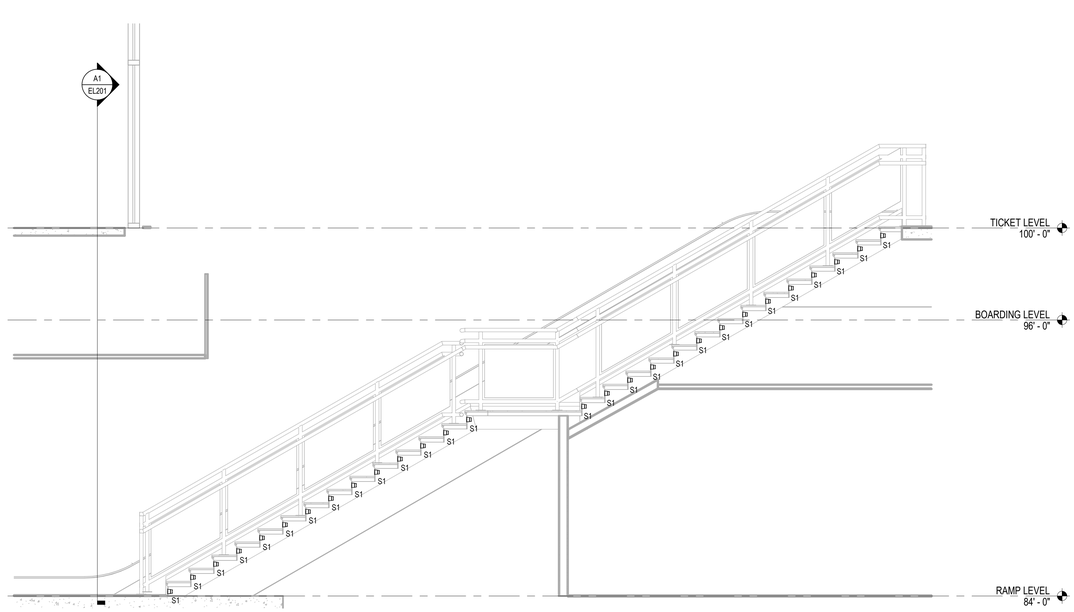
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A1 EGRESS STAIR LIGHTING SECTION

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



A3 EGRESS STAIR LIGHTING ELEVATION

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

2 0 2 4 6

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

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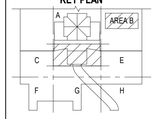
Hartranft Lighting Design

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

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DRAWN BY:	BWG
DESIGNED BY:	CRD

PROJECT NUMBER:
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SHEET TITLE:
LIGHTING ELEVATIONS

SHEET ID:
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PROJECT STATUS:
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LUMINAIRE SCHEDULE

GENERAL NOTES:

A. SEE ARCHITECTURAL PLANS FOR CEILING TYPE.
B. 'E' SUFFIX ON LUMINAIRE DESIGNATION INDICATES LUMINAIRE WITH FACTORY INSTALLED EMERGENCY BATTERY UNIT RATED AT 800 OR 1400 LUMENS.
C. EXIT SIGN TYPES WITHOUT 'E' SUFFIX SHALL BE FURNISH AND INSTALLED WITH FACTORY INSTALLED EMERGENCY BATTERY UNIT.
D. COORDINATE COLOR SELECTION OF MOUNTING DEVICE AND LUMINAIRE HOUSING WITH ARCHITECT.
E. FURNISH AND INSTALL A HARDWIRED COMMUNICATION CONNECTION BETWEEN THE LIGHTING CONTROL PANEL(S) AND THE BUILDING MANAGEMENT SYSTEM.
F. LUMINAIRES AND ALL ASSOCIATED EQUIPMENT SHALL MEET SEISMIC REQUIREMENTS FOR PROJECT LOCATION.

KEYNOTES:

1. MOUNTING HEIGHT SHALL BE 8' AFF, UON.
2. CONTROL RELAY OVERRIDE TO DESIGNATED LIGHTS ON DAYLIGHT HARVEST ZONED CIRCUIT. EMERGENCY LIGHTING TO HAVE FULL LIGHT OUTPUT UPON LOSS OF LIGHTS.
3. 1600 LUMENS PER 4' SECTION. SEE PLAN FOR OVERALL LENGTH.
4. LUMINAIRE TO BE SUSPENDED 12' AFF UON.

MARK	DESCRIPTION	MOUNT	MANUFACTURER (OAE)	MODEL	VOLTAGE	LAMP	LUMENS	WATTAGE	KEYNOTES
A1	1X1 DIRECT/INDIRECT RECESSED TROFFER,SATIN LENS, 30K COLOR TEMPERATURE,80 CRI WHITE.	LAY-IN	PINNACLE LIGHTING	LU11	277 V	LED	845 lm	11 W	
A1E	1X1 DIRECT/INDIRECT RECESSED TROFFER,SATIN LENS, 30K COLOR TEMPERATURE, 80 CRI, WHITE.	LAY-IN	PINNACLE LIGHTING	LU11	277 V	LED	845 lm	11 W	
A2	2X2 DIRECT/INDIRECT RECESSED TROFFER,30K COLOR TEMPERATURE, 80 CRI, WHITE.	LAY-IN	METALUX	#22EN	277 V	LED	2500 lm	20 W	
A2E	2X2 DIRECT/INDIRECT RECESSED TROFFER,30K COLOR TEMPERATURE, 80 CRI, WHITE.	LAY-IN	METALUX	#22EN	277 V	LED	2500 lm	20 W	
B1	RECESSED LINEAR WITH LENS, 30K COLOR TEMPERATURE, 80CRI	SURFACE	PRUDENTIAL	P33 SERIES	277 V	LED	1600 lm	20 W	3
D1	6" CYLINDER DOWNLIGHT,30K TEMPERATURE, 80 CRI, WHITE.	RECESSED	LITHONIA	LDN6	277 V	LED	500 lm	6 W	
D1E	6" CYLINDER DOWNLIGHT,30K TEMPERATURE, 80 CRI, WHITE.	RECESSED	LITHONIA	LDN6	277 V	LED	500 lm	6 W	
E1	CONTEMPORARY LED SINGLE FACED EXIT SIGN WITH BLACK POWDER PAINT ALUMINUM HOUSING, BRUSHED ALUMINUM FACE, RED LETTERS, AND CHEVRON ARROWS AS SHOWN ON PLANS	UNIVERSAL	LITHONIA	EDG	277 V	LED	500 lm	5 W	1
E2	CONTEMPORARY LED SINGLE FACED EXIT SIGN WITH BLACK POWDER PAINT ALUMINUM HOUSING, BRUSHED ALUMINUM FACE, RED LETTERS, AND CHEVRON ARROWS AS SHOWN ON PLANS	UNIVERSAL	LITHONIA	EDG	277 V	LED	500 lm		
F1	4' GASKETED INDUSTRIAL,CURVED RIBBED DIFFUSER,30K COLOR TEMPERATURE, 80CRI, WHITE.	PENDANT	COLUMBIA	LXEM SERIES	277 V	LED	5500 lm	47 W	4
S1	12" RECESSED STAIR LIGHTING	RECESSED	BEGA-US	22601ED	277 V	LED	480 lm	11 W	
W1	1x4 SURFACE WITH CAST ALUMINUM HOUSING, WHITE FINISH	SURFACE	LITHONIA	BLT4	277 V	LED	1907 lm	9 W	1

hartranft lighting studios

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REVISION: REV.# NO. MM DD YYYY

LUMINAIRE SCHEDULE - CONSTRUCTION DOCUMENTATION

PROJECT: ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS

DATE: 03 12 2025

SPECIFICATION NOTES FOLLOW THIS SCHEDULE AND ARE INCORPORATED HEREIN

LUMINAIRE TYPE	IMAGE	DESCRIPTION	LAMPING	MANUFACTURER and SERIES	CATALOG NUMBER	POWER SUPPLY/ CONTROL PROTOCOL	SYSTEM WATTS (W)	VOLTAGE(V)	DEPTH	MOUNTING	LOCATION	NOTES
H01		LINEAR COVE LUMINAIRE	3000K LED 445 LUMENS PER FOOT 90 CRI	PRUDENTIAL MICROCOVEPRO	MIC-PRO-LED35-90-LO-LENGTH PER PLAN-SC-UNV-DM01-	0-10V TO 1%	3.5 PER FOOT	MVOLT	2.5"	COVE SURFACE	GARAGE LOBBY	EC TO COORDINATE FIELD VERIFIED OVERALL RUNS PRIOR TO ORDER FIELD REPLACEABLE DRIVER AND LED MODULES
H02		LED PROJECTOR	5500K LED 3000 LUMENS	ROSCO X-EFFECTS LED PROJECTOR	XFXLED-X-EFFEXTS-90-5-C-LENS TBD-ACCESSORY TBD-S-P / 296000005101 /	ONBOARD DIMMING AND SPEED CONTROLS	90	100-240 VAC		POLE MOUNT	GARAGE LOBBY	WEIGHT: 9 POUNDS PROVIDE BRACING AS REQUIRED TO ACCOMMODATE STEM MOUNT
H03		ACRYLIC SIDE LIT 'WAVE'	RGBW LED	SENSITILE	SENSITILE PRODUCTION 'WAVE' ASSEMBLY AND CONTROLS	DMX	16,000 MAX	12V		SURFACE	CONNECTOR	SEE ARCHITECTURAL SPECIFICATION FOR DETAILS
H04		LINEAR PERIMETER	3000K LED 400 LUMENS UP 475 LUMENS DOWN CRI	PRUDENTIAL BIONICPRO4	BPRO2-04 -LIN-FLSH-LED3090-LO-R156-PFL-NU-SC-UNV-WM-DM01-SEE	INTEGRAL 0-10V DIMMING TO 1%	6 PER FOOT	MVOLT	5"	PENDANT OR WALL MOUNT	CONNECTOR	MOUNT PER ARCHITECTS DETAIL
H05					NOT USED							
H06		4" APERTURE DOWNLIGHT	3000K LED 1007 LUMENS 95 CRI	GOTHAM IVO	IVO4-D-10LM-30K-95CRI-S9D-MIN1-MVOLT / ICAT-SF-BEV-CUSTOM COLOR TBD-LD-FLANGE CUSTOM COLOR TBD	INTEGRAL 0-10V DIMMING TO 1%	9.8	MVOLT	8"	RECESSED	METAL CEILING AT ESCALATOR LOWER LOBBY	CUSTOM COLOR FINISHES PER INTERIOR DESIGNER FIELD CHANGEABLE OPTICS EVERY 5 DEGREES
H07		SCONCE	3000K LED 2023 LUMENS 90 CRI	BEGA	B24503-K30-COLOR	0-10V / TRIAC / ELV DIMMABLE	17	MVOLT	9-1/8"	SURFACE	TERMINAL LOBBY STAIRWELL	FINISH PER ARCHITECT
H08		CYLINDER DOWNLIGHT	3000K LED 1471 LUMENS 90 CRI	GOTHAM EVO	EVO6SC-30-1500-TRIM COLOR TBD-LD-ND-MVOLT-GZ1-JBX- -90CRI-FINISH TBD	INTEGRAL 0-10V DIMMING TO 1%	15	MVOLT	12-5/8"	SURFACE	TERMINAL LOBBY	CONFIRM FINISH WITH INTERIOR DESIGNER CONDUIT MOUNT AVAILABLE - EC TO CONFIRM PRIOR TO ORDER
H09		BACKLIT COLUMN COVERS	3000K LED 100 LUMENS PER FOOT	MOZ / DIODELED STREAMLITE RGBW	DI-24V-STMLT-RGBW-LENGTH PER PLAN-WH-MOUNTING TBD-O/O-DELIVERY PER INTERIOR DESIGNER-DMX CONTROLLED	DMX	ASSUME 200 PER COLUMM ASSEMBLY	24VDC	0.08"	SURFACE	CONNECTOR ESCALATOR LOBBY	COORDINATE COLUMN COVER / ACRYLIC LENS AND INSTALLATION PER INTERIOR DESIGNER EC TO PROVIDE ALL FEEDS,DRIVERS, CONNECTORS, CAPS, CONTROLLER, ETC TO FORM A COMPLETE WORKING SYSTEM THIS LUMINAIRE TYPE REQUIRES FULLY COORDINATED MANUFACTURER-PROVIDED SHOP DRAWINGS FOR REVIEW PRIOR TO APPROVAL
H10		CUSTOM PENDANT	TBD	TBD	TBD		ASSUME 1,000				GARAGE VERTICAL LOBBY	
H11		LINEAR PENDANT DOWNLIGHT	3000K LED ~400 LUMENS CRI	PRUDENTIAL BIONICPRO2	BPRO2-LIN-REG.5-LED3-90-LO-LENGTH PER PLAN-TMW-BTW-SYM-ADC-SC-UNV-CA PER PLAN-DM01	INTEGRAL 0-10V DIMMING TO 1%	7.6 PER FOOT	MVOLT	5.5"	PENDANT	GARAGE LOBBY AT CONNECTOR	SINGLE CIRCUIT
H12		CYLINDER DOWNLIGHT TYPE IV DISTRIBUTION	3000K LED 2407 LUMENS 90 CRI	LUMINIS SYRIOS PRO	SYP600-L1L25-LD5-30K-MVOLT-SWK-SP-CUSTOM FINISH TBD	INTEGRAL 0-10V DIMMING TO 1%	19	MVOLT	13"	SURFACE	ALTERNATE 4 VESTIBULE	CUSTOM FINISH PER INTERIOR DESIGNER

SPECIFICATION NOTES (MUST BE INCLUDED ON DRAWINGS WITH LUMINAIRE SCHEDULE):

1 ELECTRICAL ENGINEER TO SPECIFY AND CONFIRM ALL VOLTAGES AND PROPERLY SIZE ALL REMOTE POWER SUPPLIES

2 CONTRACTOR SHALL PROVIDE LUMINAIRES AND LIGHTING EQUIPMENT THAT MEETS PERFORMANCE, AESTHETICS, AND MATERIAL AS NOTED IN THE WRITTEN LUMINAIRE SPECIFICATION. ALTERNATES OR SUBSTITUTIONS ARE NOT PERMITTED WITHOUT REVIEW AND APPROVAL BY THE LIGHTING DESIGNER. CONTRACTOR TO COORDINATE LEAD TIMES, DEPOSIT REQUIREMENTS, SHOP DRAWING DEVELOPMENT AND SUBMITTAL, ETC. TO ASSURE TIMELY DELIVERY IN ACCORDANCE WITH OVERALL PROJECT SCHEDULE. ALL PROPOSED SUBSTITUTIONS MUST BE SUBMITTED NO LESS THAN FOURTEEN (14) DAYS PRIOR TO THE BID DUE DATE. FAILURE TO SUBMIT PROPOSED SUBSTITUTIONS WITHIN THAT DEADLINE CONSTITUTES A GUARANTEE THAT THE SPECIFIED PRODUCTS WILL BE SUPPLIED.

3 INSTALLING CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL WIRING SCHEMES AND OTHER INSTALLATION DETAILS WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.

4 SUBSTANTIAL COMPLETION IN THIS CONTEXT REFERS TO COMPLETELY INSTALLED AND OPERATIONAL LIGHTING AND LIGHTING CONTROL SYSTEMS. CONTRACTOR SHALL VERIFY THE CORRECT INSTALLATION AND DIMMING OPERATION OF ALL LUMINAIRES, SENSORS, AND OF THE CONTROL SYSTEM AS AWHOLE PRIOR TO REQUESTING THE LIGHTING DESIGNER'S ATTENDANCE AT ANY FOCUSSING OR LEVEL SETTING SESSIONS. IN THE EVENT THAT THE LIGHTING CONTROL ZONES OR OTHER OPERATIONAL CHARACTERISTICS OF THE COMPLETED SYSTEM ARE NOT FULLY READY AT THE TIME OF THE FIRST FOCUSSING APPOINTMENT, THE LIGHTING DESIGNER SHALL BE ENTITLED TO REQUEST FEES FOR ADDITIONAL SERVICES FROM THE CONTRACTOR WHICH SHALL NOT BE PASSED ON TO THE CLIENT.

5 CATALOGUE OR SERIES NUMBERS ARE INTENDED TO PROVIDE ASSISTANCE IN ESTABLISHING IDENTIFICATION OF MANUFACTURER'S MODEL, SERIES, OR LUMINAIRE STYLE, AND MAY NOT BE COMPLETE AND SHALL NEVER BE USED TO ORDER LUMINAIRES. MANUFACTURER'S CATALOG NUMBERS ARE SUBJECT TO CHANGE AND ANY DISCREPANCIES BETWEEN THE CATALOG NUMBER, LUMINAIRE DESCRIPTION, REMARKS, LAMP AND SUPPLY VOLTAGE, AND ARCHITECTURAL DRAWINGS MUST BE BROUGHT TO THE ATTENTION TO THE LIGHTING DESIGNER PRIOR TO THE RELEASE OF A PURCHASE ORDER.

6 CATALOGUE CUTS, WHEN INCLUDED, ARE FOR GENERAL ASSISTANCE AND IMAGE REFERENCE ONLY AND ARE NOT A PART OF THESE SPECIFICATIONS. MANUFACTURER'S CATALOG CUTS ARE SUBJECT TO CHANGE AND CURRENT CATALOG CUTS FROM THE MANUFACTURER ARE REQUIRED TO BE SUBMITTED DURING SHOP DRAWING REVIEW FOR APPROVAL.
A. ARCHITECTURAL DETAIL SKETCHES OR CUSTOM LUMINAIRE DRAWINGS INCLUDED IN THESE LUMINAIRE SPECIFICATIONS ARE PART OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BRING ANY DISCREPANCIES BETWEEN SKETCHES AND CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT BEFORE SUBMITTING BIDS.

7 AUXILIARY EMERGENCY EQUIPMENT OPTIONS MUST BE DETERMINED, VERIFIED, AND APPROVED BY THE ELECTRICAL ENGINEER.

8 "CONTINUOUS", WHEN NOTED, REQUIRES BUTTED END TO END LAYOUTS WITH NO GAPS BETWEEN LUMINAIRE HOUSINGS. NOTE MINIMUM OR MAXIMUM GAPS OR LAYOUT WHEN PROVIDED.

9 "FLANGELESS" OR "TRIMLESS" OR "FLUSH", WHEN NOTED, REQUIRES CONTRACTOR TO REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PLASTER FRAME. PROPER ALIGNMENT OF BOTTOM OF APERTURE THROAT WITH FACE OF FINISHED CEILING IS CRITICAL FOR INSTALLATION; CONTRACTOR TO COORDINATE.

10 "REMOTE DRIVERS" OR "ACCESSIBLE" WHEN NOTED REQUIRES CONTRACTOR TO COORDINATE WITH BOTH THE ARCHITECT AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO LOCATE A SUITABLE LOCATION REMOVED FROM THE LUMINAIRE ITSELF FOR THE DRIVER/POWER SUPPLY. SAID LOCATION SHALL BE CONCEALED FROM GERENAL VIEW, WELL VENTILATED, SECURE AND REACHABLE BY NO MORE THAN A 10' LADDER PLACED SECURELY, ON FLAT GROUND.

A. ELECTRICAL CONTRACTOR TO COORDINATE MOUNTING DETAILS AND ELECTRICAL CONNECTIONS, ADVISE MANUFACTURER OF LEAD LENGTHS, AND VERIFY THAT INSTALLATION COMPLIES WITH NATIONAL AND LOCAL CODES, AND PROVIDE FUSE FOR SECONDARY WIRING, WHEN REQUIRED.

B. LUMINAIRE MANUFACTURER TO DETERMINE REQUIRED WIRE SIZE BETWEEN LUMINAIRES AND DRIVERS, LENGTH OF RUNS, OR QUANTITY OF LUMINAIRES PER CIRCUIT, AND TO ASSURE THAT VOLTAGE DROP DOES NOT EXCEED 5% - VERIFICATION OF VOLTAGE DROP MUST BE CONDUCTED ON SITE BY THE ELECTRICAL CONTRACTOR USING A "TRUE RMS" VOLTMETER TO MEASURE THE SECONDARY VOLTAGE.

11 "ALLOWANCES", WHEN NOTED, ARE TO BE IN U.S. DOLLARS AND COVER THE COST, TO THE OWNER, OF THE LIGHTING LUMINAIRES, LAMPS, AND ACCESSORIES AS NOTED. AN ALLOWANCE DOES NOT INCLUDE LAMPS, DELIVERY TO THE SITE, HANDLING, INSTALLATION OR CONTRACTOR'S OVERHEAD OR MARK-UP. CONTRACTOR MUST PROVIDE UNIT PRICING TO THE ARCHITECT- FOR EACH LUMINAIRE TYPE COMPLETE WITH ALL ACCESSORIES AND LAMP.

12 SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND LIGHTING CONSULTANT FOR REVIEW AND APPROVAL IN ACCORDANCE WITH ARCHITECT'S GENERAL TERMS AND CONDITIONS. DO NOT OBTAIN LUMINAIRES WITHOUT APPROVAL.

A. SHOP DRAWINGS FOR ALL LIGHTING EQUIPMENT SHALL INCLUDE DETAILS AND CUTS OF EACH LUMINAIRE TYPE, AND SHALL INCLUDE INFORMATION ON LIGHT SOURCE, HOUSING SIZE AND MATERIAL, DRIVER TYPE (WHERE APPLICABLE), LENSES, BAFFLES, FINISHES, AND MEANS AND METHODS OF ATTACHMENT AND SUPPORT, JOINING, AND ELECTRICAL CONNECTION.

B. IN ADDITION, SHOP DRAWINGS FOR CONTINUOUS OR CUSTOM LENGTH LIGHTING EQUIPMENT REQUIRE FIELD DIMENSIONS, AND SHOP DRAWINGS SHALL INCLUDE FIELD DIMENSIONS AND LAYOUTS.

13 CONTROL SAMPLES WHEN REQUESTED, SUBMIT AT LEAST 1 WORKING SAMPLE OF EACH LUMINAIRE TYPE SPECIFIED FOR USE AS A CONTROL SAMPLE TO VERIFY COLOR FIDELITY AND COMPATABILITY WITH CONTROL SYSTEM. CONTROL SAMPLES SHALL BE PROVIDED DURING SHOP DRAWING SUBMITAL PROCESS AND SHALL BE OF THE SAME BIN/PRODUCTION RUN AS THE LUMINAIRES ULTIMATELY SUPPLIED FOR THE PROJECT AS A WHOLE. AFTER APPROVAL, CONTROL SAMPLES MAY BE INSTALLED AS PART OF THE OVERALL LUMINAIRE COUNT, OR MAY SERVE AS A PORTION OF THE ATTIC STOCK REQUIRED FOR THE PROJECT. LUMINAIRES SPECIFIED AS PART OF A SERIES (HA, HA-1, E.G.) MAY BE REPRESENTED BY A SINGLE SAMPLE, BUT ADDITIONAL UNITS MAY STILL BE REQUIRED AS ATTIC STOCK.

14 "FOCUSING REQUIRED", WHEN NOTED, REQUIRES CONTRACTOR TO PROVIDE ALLOWANCE FOR LABOR, SCAFFOLDING, AND TOOLS TO ADJUST, AIM, OR INSTALL LUMINAIRES AND ACCESSORIES PER THE LIGHTING CONSULTANT'S DIRECTION DURING EVENING HOURS (IF REQUIRED). FOCUSING CAN ONLY OCCUR AFTER INSTALLATION AND CONFIRMED OPERATION OF ALL LUMINAIRES, AND AFTER THE CONTRACTOR HAS VERIFIED INSTALLATION AND CONFIRMED OPERATION OF CONTROL SYSTEMS. SPECIFIC ARCHITECTURAL ORNAMENT OR ART INTENDED TO BE ILLUMINATED MUST BE IN PLACE PRIOR TO FOCUS SESSION.

A. WHEN KNOWN INITIAL AIMING ANGLES ARE DEFINED ABOVE, LUMINAIRES MAY BE "PRE-AIMED" AS INDICATED. HOWEVER, THESE "INITIAL" AIMING ANGLES WILL BE VERIFIED IN THE FIELD BY THE LIGHTING DESIGNER AND MAY REQUIRE ADDITIONAL RE-AIMING FOR FINAL FOCUSING.

B. DURING FINAL FOCUSING THE LIGHTING DESIGNER WILL PROVIDE AIMING DIRECTION, INSTRUCTION, AND DEFINE AIMING ANGLES FOR TYPICAL LUMINAIRES SO THE CONTRACTOR MAY COMPLETE THE FOCUSING DURING DAYTIME HOURS. THE CONTRACTOR IS TO LOCK BUT NOT OVER-TIGHTEN ALL LUMINAIRES SO THAT LAMPHOLDERS WILL NOT MOVE DURING SUBSEQUENT RELAMPING.

15 "CUSTOM COLOR", WHEN NOTED, REQUIRES THE CONTRACTOR TO COORDINATE AND PROVIDE SPECIAL COLORS. CONTRACTOR TO VERIFY ALL OCCURRENCES WITH THE ARCHITECT, AND NOTE LUMINAIRE TYPES MAY BE INSTALLED AT DIFFERENT ARCHITECTURAL CEILING OR WALL FINISHES, THUS SEPARATE COLORS FOR EACH MATERIAL MAY ...

16 ATTIC STOCK: CONTRACTOR TO INCLUDE COST OF 20% ATTIC STOCK IN BID FOR THE FOLLOWING TYPES OF LUMINAIRES, ACCESSORIES, AND COMPONENTS: LINEAR LUMINAIRE TYPES IN QUANTITIES AND LENGTHS AS REPRESENTED IN THE DRAWINGS, LENSES, REMOVABLE LUMINAIRE TRIMS, DRIVERS, BOTH REMOTE AND INTEGRAL, HOUSINGS, WHERE LUMINAIRE AND HOUSING ARE SEPARATE ENTITIES, CUSTOMIZED COMPONENTS INCLUDING HOUSINGS WITH CUSTOMIZED FINISHES (ARMS, MOUNTING BRACKETS, ETC.). LUMINAIRE TYPES WHICH ARE SUPPLIED ON SPOOLS, REQUIRE ONE ADDITIONAL FULL SPOOL .

17 CONTROL SYSTEM: CONTRACTOR TO PROVIDE PERSONNEL AND EQUIPMENT AS REQUIRED BY LIGHTING CONTROL SYSTEM MANUFACTURER FOR SYSTEM START-UP, LEVEL SET, AND COMMISSIONING. UNDER NO CIRCUMSTANCES SHALL CONTRACTOR EXCLUDE THE COST OF FACTORY START-UP AND TRAINING VISITS FROM THEIR BID IF SUCH SERVICES ARE REQUIRED BY CONTROL SYSTEM MANUFACTURER. CONTRACTOR TO NOTE THAT CONTROL SYSTEM MANUFACTURER MAY HAVE SPECIFIC TIME-LINES AND/OR REQUIRED, PHASED, SITE VISITS DURING THE INSTALLATION OF THE SYSTEM AND TO COORDINATE SAME WITH PROJECT SCHEDULE AND LEAD TIME.
A. AS NOTED IN #4 ABOVE, ALL DIMMING, SENSOR OPERATION, AND CONTROL ZONE GROUPINGS SHALL BE TESTED AND OPERATIONAL PRIOR TO COMMENCING ANY START-UP ACTIVITIES.

18 A CONTROL SYSTEMS INTEGRATOR IS REQUIRED FOR THIS PROJECT. GENERAL CONTRACTOR, OR THEIR ELECTRICAL SUB TO CONTRACT WITH A QUALIFIED LIGHTING CONTROL SYSTEMS INTEGRATOR TO ENSURE THAT THE CONTROL INTENT SPECIFIED ELSEWHERE CAN BE ACHEIVED AND THAT THE LUMINAIRES CONTROLED VIA DMX-512A AND THOSE CONTROLED BY OTHER PROTOCOLS CAN BE OPERATED SIMALTANEOUSLY AND WITHOUT VISIBLE LAGS. DO NOT EXCLUDE THE COST OF SAID INTEGRATOR FROM THE BID. INTEGRATOR SHALL BE RESPONSIBLE FOR CODE SEQUENCES AS DETAILED ELSEWHERE.

19 LED REPLACEMENT LAMPS: WHERE NOTED REQUIRES DISTRIBUTOR TO COORDINATE AND PROVIDE APPROPRIATE LED REPLACEMENT LAMPS FOR LUMINAIRES WITH SCREW BASE SOCKETS. TAKE CARE TO ASSURE THAT ALL REPLACEMENT LAMPS, REGARDLESS OF BASE ARE CONSISTENT IN COLOR APPEARANCE AND WILL DIM WITH SPECIFIED SYSTEM. ALL NON-SHIELDED LAMPS SHALL HAVE FILAMENT STYLE LIGHT ELEMENT. PROVIDE A FULL SUITE OF LAMPS FOR LIGHTING DESIGNER'S APPROVAL WITH SUBMISSION. PROVIDE A COMPLETE LIST OF ALL LAMPS WHICH WILL BE FURNISHED ON THE PROJECT. THIS LIST SHALL BE ORGANIZED ALPHABETICALLY BY LUMINAIRE TYPE INDICATED ON THE LUMINAIRE SCHEDULE, AND INCLUDE THE MANUFACTURER AND EXACT MODEL ORDERING CODE OF EACH LAMP.

20 CUSTOM OR CUSTOMIZED LUMINAIRE: WHERE NOTED REFERS TO EITHER A LUMINAIRE DESIGNED FOR THIS SPECIFIC PROJECT ONLY, OR MAY REFER TO A SPECIFIC ELEMENT OF THE LUMINAIRE THAT IS BEING CHANGED FOR USE WITHIN THIS PROJECT. IN EITHER CASE, BIDDERS ARE ENCOURAGED TO COMMUNICATE WITH MANUFACTURERS WHERE NOTED DURING THE PREPARATION OF BIDS AND TO REFER ANY QUESTIONS TO THE DESIGN TEAM IN THE FORM OF RFI'S. REQUESTS FOR CHANGE ORDERS THAT COULD HAVE BEEN RESOLVED IN ADVANCE, BASED ON THE INFORMATION PROVIDED AND A STANDARD RFI WILL NOT BE HONORED OR REFERRED TO THE CLIENT. IN INSTANCES WHERE THE LUMINAIRE IS DESCRIBED AS IN DEVELOPMENT WITH THE SELECTED MANUFACTURER, CONFIRM THAT PROVIDED PRICE IS SUFFICIENT TO INCLUDE ADJUSTMENTS TO THE OVERALL SIZE, FINISH, MATERIALS, ETC. DURING THE SUBMISSION PROCESS.

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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

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REVIEWED BY:	RS&H
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SHEET TITLE:
LUMINAIRE SCHEDULES

SHEET ID:
EL601

PROJECT STATUS:
100% BID SET

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LUMINAIRE SCHEDULE - CONSTRUCTION DOCUMENTATION

REVISION: REV.# NO. MM DD YYYY

PROJECT: ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS

DATE: 03 12 2025

SPECIFICATION NOTES FOLLOW THIS SCHEDULE AND ARE INCORPORATED HEREIN

LUMINAIRE TYPE	IMAGE	DESCRIPTION	LAMPING	MANUFACTURER and SERIES	CATALOG NUMBER	POWER SUPPLY/ CONTROL PROTOCOL	SYSTEM WATTS (W)	VOLTAGE(V)	DEPTH	MOUNTING	LOCATION	NOTES
EXTERIOR LIGHTING												
HX01		CYLINDER DOWNLIGHT TYPE IV DISTRIBUTION	3000K LED 2407 LUMENS 90 CRI	LUMINIS SYRIOS PRO	SYP600-L1L25-LD5-30K-MVOLT-SWK-SP-FINISH TBD-MG	INTEGRAL 0-10V DIMMING TO 1%	19	MVOLT	13"	SURFACE / BACKBOX	DRIVE CANOPY	OPERATING TEMP OF -22 DEGREE TO 113 DEGREE F BACKBOX WITH CONDUIT PUNCHOUTS MARINE GRADE FINISH
HX01a		CYLINDER DOWNLIGHT TYPE IV DISTRIBUTION	3000K LED LUMENS 90 CRI	LUMINIS SYRIOS PRO	SYP600-L1 MODIFIED 3000 LM OUTPUT-LD5-30K-MVOLT-SWK-SP-FINISH TBD-MG	INTEGRAL 0-10V DIMMING TO 1%	19	MVOLT	13"	SURFACE / BACKBOX	CANOPY PEDESTRIAN WALKWAY CANOPY	OPERATING TEMP OF -22 DEGREE TO 113 DEGREE F BACKBOX WITH CONDUIT PUNCHOUTS MARINE GRADE FINISH
HX01b		CYLINDER DOWNLIGHT TYPE III DISTRIBUTION	3000K LED LUMENS 90 CRI	LUMINIS SYRIOS PRO	SYP600-L1L25-LD3-30K-MVOLT-SWK-SP-FINISH TBD-MG	INTEGRAL 0-10V DIMMING TO 1%	19	MVOLT	13"	SURFACE / BACKBOX	PEDESTRIAN WALKWAY CANOPY	OPERATING TEMP OF -22 DEGREE TO 113 DEGREE F BACKBOX WITH CONDUIT PUNCHOUTS MARINE GRADE FINISH
HX02		4' LINEAR DIRECT VIEW ACCENT	RGBW LED 462 LUMENS - FULL ON	COLOR KINETICS VAYA TUBE, G2	316-100029-01	DMX	13.6	24DC	2.61"	SURFACE	DRIVE CANOPY PERLINS	EC TO PROVIDE ALL FEEDS, CONNECTORS, CAPS ETC TO FORM A COMPLETE WORKING SYSTEM
HX02a		1' LINEAR DIRECT VIEW ACCENT	RGBW LED 462 LUMENS - FULL ON	COLOR KINETICS VAYA TUBE, G2	316-100029-00	DMX	3.4	24DC	2.61"	SURFACE	DRIVE CANOPY PERLINS	EC TO PROVIDE ALL FEEDS, CONNECTORS, CAPS ETC TO FORM A COMPLETE WORKING SYSTEM
HX03		CYLINDER DOWNLIGHT TYPE III DISTRIBUTION	RGBW UPLIGHT 3000K LED DOWNLIGHT 2403 LUMENS DOWNLIGHT...	LUMINIS SYRIOS PRO	SYP600-L1L25-LD3-30K-MVOLT-SWK-SP-FINISH TBD-MG	INTEGRAL 0-10V DIMMING TO 1%	19	MVOLT	13"	SURFACE	DRIVE CANOPY OUTERMOST GIRDERS	OPERATING TEMP OF -22 DEGREE TO 113 DEGREE F BACKBOX WITH CONDUIT PUNCHOUTS MARINE GRADE FINISH
HX04		CANOPY DOWNLIGHT	3000K LED 1436 LUMENS...	LUMINIS OCCULUS	OC750-L1L15-FLD-30K-MVOLT-DR10-SL-GL-CUSTOM COLOR TBD-MG	REMOTE 0-10V DIMMING	14	MVOLT	5.83"	RECESSED	TERMINAL ENTRIES	REQUIRES 7" CLEAR PLENUM IP66
HX05		INGRADE UPLIGHT	3000K LED 1453 LUMENS 80 CRI	HYDREL TIERRA	IGF6-SS-LED-P1-80CRI-30K-MVOLT-7 DEGREE-0T-SLCSR-CONDUIT ENTRIES TBD-IHL-ZT-FINISH TBD	INTEGRAL 0-10V DIMMING TO 1%	24	MVOLT	10.5"	INGRADE	TERMINAL ENTRY	INTERNAL HONEYCOMB LOUVER FOR GLARE CONTROL AIMING ADJUSTMENT 0 TO 20 DEGRESS
HX05a		FLAG POLE INGRADE UPLIGHT	3000K LED 4205 LUMENS 80 CRI	HYDREL M9700C	M9720C-DOOR MATERIAL TBD-P2-30K-MVOLT-NSP-FLC20SR-CONDUIT ENTRIES TBD-GS-LDIM-FINISH TBD + ZINC UNDERCOAT	INTEGRAL 0-10V DIMMING TO 10%	35	MVOLT	16"	INGRADE	FLAG POLES	DOUBLE LENS, OPTICAL AND MECHANICAL AIMING SLIP RESISTANT LENS GLARE SHIELD
HX06	NOT USED											
HX07	NOT USED											
HX08		LANDSCAPE ACCENT	3000K LED 674 LUMENS 90 CRI	HYDREL ASPEN LED	ASPEN-A-P1-90CRI-30K-12-45DEG-WSL-350R-STK-IHL-C3-FINISH + Z9- / REMOTE TRANSFORMER	REMOTE 12V TRANSFORMER	8	12	8.65"	STAKE	LANDSCAPE	WATERSHED LENS HONEYCOMB LOUVER 45 DEGREE CUT EXTERNAL CAP 350 DEGREE ROTATIONAL KNUCKLE
HX09		ARM MOUNTED SIGN LIGHTER	3000K LED 674 LUMENS 90 CRI	ELLIPTIPAR STYLE S175	S-175-H-8'-H-FINISH-M-V0-0-935-EL / HUBS AS REQUIRED-CANTILEVER HANGER WITH 24" ARM	ELDOLED 0-10V DIMMING TO 1%	13 PER FOOT	MVOLT	4" NOMINAL	SURFACE	GARAGE	FINISH PER ARCHITECT AIMING LOCKS WITH SET SCREWS FIELD SERVICABLE LIGHT ENGINE
HX10	NOT USED											
HX11		FLEXIBLE WET RATED RGBW	RGBW LED 205 LUMENS PER FOOT AT 3K	OPTIC ARTS KURBA LARGE	KBL-W-VB-LENGTH PER PLAN-RGBW26SO-BK-MOUNTING-BK-FEED POSITION LEFT AND RIGHT TBD-	REMOTE 24VDC DMX	1.25 PER FOOT			SURFACE	GARAGE ACCENT AT STAIRWELL	VERTICAL BEND EC TO PROVIDE ALL FEEDS, CONNECTORS, CAPS, CLIPS ETC TO FORM A COMPLETE WORKING SYSTEM
HX12		RGBW EXTERIOR LINEAR ACCENT	RGBW LED 205 LUMENS PER FOOT AT 3K	DADO EXTERIOR HARDLINE	EHL25-1EL-RGBW-1-W-R-START END TBD-LENGTH PER PLAN-NO TRANSITION-FINISH END TBD-LIP COLOR TBD-IN-OPTIONS AS REQUIRED / REMOTE DRIVER TBD-DDMX	REMOTE DMX	6.1 PER FOOT	UNV	1.75" DEEP	SURFACE	GARAGE MONITOR AT STAIRWELL	IP65 EC TO PROVIDE ALL FEEDS, CONNECTORS, CAPS, CLIPS ETC TO FORM A COMPLETE WORKING SYSTEM
HX13		LED PROJECTOR	5500K LED 3000 LUMENS	ROSCO X-EFFECTS LED PROJECTOR	XFXLED-X-EFFEXTS-90-5-C-LENS TBD-ACCESSORY TBD--S-P / 29600000101 / CUSTOM COLOR TBD	ONBOARD DIMMING AND SPEED CONTROLS	90	100-240 VAC		WALL MOUNT	GARAGE LOBBY	WEIGHT: 9 POUNDS PROVIDE BRACING AS REQUIRED FOR WALL MOUNTING
HX14	NOT USED											
HX14a	NOT USED											
HX15	NOT USED											
HX16	NOT USED											
HX17		RGBW TREE UPLIGHT	RGBW LED 1645 LUMENS FULL ON	COLOR KINETICS BURST POWERCORE	423-000030-FINISH TBD / FULL GLARE SHIELD / (1) LENS TO BE DETERMINED	DMX	31.3	MVOLT	10.75"	STAKE	PALM TREES DRIVE APPROACH	8 DEGREE BEAM ANGLE NATIVE FULL GLARE SHIELD IP66
HX18		RGBW FLEXIBLE DIRECT VIEW	RGBW LED	KELVIX SIGNWAVE 5	SWSS-LENGTH PER PLAN-RGBW-FEED POINT TBD-FEED LENGTH TBD-IP68 / END CAPS AS REQUIRED / SW-E-CH-AL-FLX-1M	DMX	4.6 PER FOOT	24V DC	1.12"	SURFACE	PEDESTRIAN WALKWAY CANOPY	POWER FEED EVERY 21 FEET FLEXIBLE ALUMINUM CHANNEL

SPECIFICATION NOTES (MUST BE INCLUDED ON DRAWINGS WITH LUMINAIRE SCHEDULE):

1 ELECTRICAL ENGINEER TO SPECIFY AND CONFIRM ALL VOLTAGES AND PROPERLY SIZE ALL REMOTE POWER SUPPLIES

2 CONTRACTOR SHALL PROVIDE LUMINAIRES AND LIGHTING EQUIPMENT THAT MEETS PERFORMANCE, AESTHETICS, AND MATERIAL AS NOTED IN THE WRITTEN LUMINAIRE SPECIFICATION. ALTERNATES OR SUBSTITUTIONS ARE NOT PERMITTED WITHOUT REVIEW AND APPROVAL BY THE LIGHTING DESIGNER. CONTRACTOR TO COORDINATE LEAD TIMES, DEPOSIT REQUIREMENTS, SHOP DRAWING DEVELOPMENT AND SUBMITTAL, ETC. TO ASSURE TIMELY DELIVERY IN ACCORDANCE WITH OVERALL PROJECT SCHEDULE. ALL PROPOSED SUBSTITUTIONS MUST BE SUBMITTED NO LESS THAN FOURTEEN (14) DAYS PRIOR TO THE BID DUE DATE. FAILURE TO SUBMIT PROPOSED SUBSTITUTIONS WITHIN THAT DEADLINE CONSTITUTES A GUARANTEE THAT THE SPECIFIED PRODUCTS WILL BE SUPPLIED.

3 INSTALLING CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL WIRING SCHEMES AND OTHER INSTALLATION DETAILS WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.

4 SUBSTANTIAL COMPLETION IN THIS CONTEXT REFERS TO COMPLETELY INSTALLED AND OPERATIONAL LIGHTING AND LIGHTING CONTROL SYSTEMS. CONTRACTOR SHALL VERIFY THE CORRECT INSTALLATION AND DIMMING OPERATION OF ALL LUMINAIRES, SENSORS, AND OF THE CONTROL SYSTEM AS AWHOLE PRIOR TO REQUESTING THE LIGHTING DESIGNER'S ATTENDANCE AT ANY FOCUSSING OR LEVEL SETTING SESSIONS. IN THE EVENT THAT THE LIGHTING CONTROL ZONES OR OTHER OPERATIONAL CHARACTERISTICS OF THE COMPLETED SYSTEM ARE NOT FULLY READY AT THE TIME OF THE FIRST FOCUSSING APPOINTMENT, THE LIGHTING DESIGNER SHALL BE ENTITLED TO REQUEST FEES FOR ADDITIONAL SERVICES FROM THE CONTRACTOR WHICH SHALL NOT BE PASSED ON TO THE CLIENT.

5 CATALOGUE OR SERIES NUMBERS ARE INTENDED TO PROVIDE ASSISTANCE IN ESTABLISHING IDENTIFICATION OF MANUFACTURER'S MODEL, SERIES, OR LUMINAIRE STYLE, AND MAY NOT BE COMPLETE AND SHALL NEVER BE USED TO ORDER LUMINAIRES. MANUFACTURER'S CATALOG NUMBERS ARE SUBJECT TO CHANGE AND ANY DISCREPANCIES BETWEEN THE CATALOG NUMBER, LUMINAIRE DESCRIPTION, REMARKS, LAMP AND SUPPLY VOLTAGE, AND ARCHITECTURAL DRAWINGS MUST BE BROUGHT TO THE ATTENTION TO THE LIGHTING DESIGNER PRIOR TO THE RELEASE OF A PURCHASE ORDER.

6 CATALOGUE CUTS, WHEN INCLUDED, ARE FOR GENERAL ASSISTANCE AND IMAGE REFERENCE ONLY AND ARE NOT A PART OF THESE SPECIFICATIONS. MANUFACTURER'S CATALOG CUTS ARE SUBJECT TO CHANGE AND CURRENT CATALOG CUTS FROM THE MANUFACTURER ARE REQUIRED TO BE SUBMITTED DURING SHOP DRAWING REVIEW FOR APPROVAL.
A. ARCHITECTURAL DETAIL SKETCHES OR CUSTOM LUMINAIRE DRAWINGS INCLUDED IN THESE LUMINAIRE SPECIFICATIONS ARE PART OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BRING ANY DISCREPANCIES BETWEEN SKETCHES AND CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT BEFORE SUBMITTING BIDS.

7 AUXILIARY EMERGENCY EQUIPMENT OPTIONS MUST BE DETERMINED, VERIFIED, AND APPROVED BY THE ELECTRICAL ENGINEER.

8 "CONTINUOUS", WHEN NOTED, REQUIRES BUTTED END TO END LAYOUTS WITH NO GAPS BETWEEN LUMINAIRE HOUSINGS. NOTE MINIMUM OR MAXIMUM GAPS OR LAYOUT WHEN PROVIDED.

9 "FLANGELESS" OR "TRIMLESS" OR "FLUSH", WHEN NOTED, REQUIRES CONTRACTOR TO REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PLASTER FRAME. PROPER ALIGNMENT OF BOTTOM OF APERTURE THROAT WITH FACE OF FINISHED CEILING IS CRITICAL FOR INSTALLATION; CONTRACTOR TO COORDINATE.

10 "REMOTE DRIVERS" OR "ACCESSIBLE" WHEN NOTED REQUIRES CONTRACTOR TO COORDINATE WITH BOTH THE ARCHITECT AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS TO LOCATE A SUITABLE LOCATION REMOVED FROM THE LUMINAIRE ITSELF FOR THE DRIVER/POWER SUPPLY. SAID LOCATION SHALL BE CONCEALED FROM GERENAL VIEW, WELL VENTILATED, SECURE AND REACHABLE BY NO MORE THAN A 10' LADDER PLACED SECURELY, ON FLAT GROUND.

A. ELECTRICAL CONTRACTOR TO COORDINATE MOUNTING DETAILS AND ELECTRICAL CONNECTIONS, ADVISE MANUFACTURER OF LEAD LENGTHS, AND VERIFY THAT INSTALLATION COMPLIES WITH NATIONAL AND LOCAL CODES, AND PROVIDE FUSE FOR SECONDARY WIRING, WHEN REQUIRED.

B. LUMINAIRE MANUFACTURER TO DETERMINE REQUIRED WIRE SIZE BETWEEN LUMINAIRES AND DRIVERS, LENGTH OF RUNS, OR QUANTITY OF LUMINAIRES PER CIRCUIT, AND TO ASSURE THAT VOLTAGE DROP DOES NOT EXCEED 5% - VERIFICATION OF VOLTAGE DROP MUST BE CONDUCTED ON SITE BY THE ELECTRICAL CONTRACTOR USING A "TRUE RMS" VOLTMETER TO MEASURE THE SECONDARY VOLTAGE.

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12 SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND LIGHTING CONSULTANT FOR REVIEW AND APPROVAL IN ACCORDANCE WITH ARCHITECT'S GENERAL TERMS AND CONDITIONS. DO NOT OBTAIN LUMINAIRES WITHOUT APPROVAL.

A. SHOP DRAWINGS FOR ALL LIGHTING EQUIPMENT SHALL INCLUDE DETAILS AND CUTS OF EACH LUMINAIRE TYPE, AND SHALL INCLUDE INFORMATION ON LIGHT SOURCE, HOUSING SIZE AND MATERIAL, DRIVER TYPE (WHERE APPLICABLE), LENSES, BAFFLES, FINISHES, AND MEANS AND METHODS OF ATTACHMENT AND SUPPORT, JOINING, AND ELECTRICAL CONNECTION.

B. IN ADDITION, SHOP DRAWINGS FOR CONTINUOUS OR CUSTOM LENGTH LIGHTING EQUIPMENT REQUIRE FIELD DIMENSIONS, AND SHOP DRAWINGS SHALL INCLUDE FIELD DIMENSIONS AND LAYOUTS.

13 CONTROL SAMPLES WHEN REQUESTED, SUBMIT AT LEAST 1 WORKING SAMPLE OF EACH LUMINAIRE TYPE SPECIFIED FOR USE AS A CONTROL SAMPLE TO VERIFY COLOR FIDELITY AND COMPATABILITY WITH CONTROL SYSTEM. CONTROL SAMPLES SHALL BE PROVIDED DURING SHOP DRAWING SUBMITAL PROCESS AND SHALL BE OF THE SAME BIN/PRODUCTION RUN AS THE LUMINAIRES ULTIMATELY SUPPLIED FOR THE PROJECT AS A WHOLE. AFTER APPROVAL, CONTROL SAMPLES MAY BE INSTALLED AS PART OF THE OVERALL LUMINAIRE COUNT, OR MAY SERVE AS A PORTION OF THE ATTIC STOCK REQUIRED FOR THE PROJECT. LUMINAIRES SPECIFIED AS PART OF A SERIES (HA, HA-1, E.G.) MAY BE REPRESENTED BY A SINGLE SAMPLE, BUT ADDITIONAL UNITS MAY STILL BE REQUIRED AS ATTIC STOCK.

14 "FOCUSING REQUIRED", WHEN NOTED, REQUIRES CONTRACTOR TO PROVIDE ALLOWANCE FOR LABOR, SCAFFOLDING, AND TOOLS TO ADJUST, AIM, OR INSTALL LUMINAIRES AND ACCESSORIES PER THE LIGHTING CONSULTANT'S DIRECTION DURING EVENING HOURS (IF REQUIRED). FOCUSING CAN ONLY OCCUR AFTER INSTALLATION AND CONFIRMED OPERATION OF ALL LUMINAIRES, AND AFTER THE CONTRACTOR HAS VERIFIED INSTALLATION AND CONFIRMED OPERATION OF CONTROL SYSTEMS. SPECIFIC ARCHITECTURAL ORNAMENT OR ART INTENDED TO BE ILLUMINATED MUST BE IN PLACE PRIOR TO FOCUS SESSION.

A. WHEN KNOWN INITIAL AIMING ANGLES ARE DEFINED ABOVE, LUMINAIRES MAY BE "PRE-AIMED" AS INDICATED. HOWEVER, THESE "INITIAL" AIMING ANGLES WILL BE VERIFIED IN THE FIELD BY THE LIGHTING DESIGNER AND MAY REQUIRE ADDITIONAL RE-AIMING FOR FINAL FOCUSING.

B. DURING FINAL FOCUSING THE LIGHTING DESIGNER WILL PROVIDE AIMING DIRECTION, INSTRUCTION, AND DEFINE AIMING ANGLES FOR TYPICAL LUMINAIRES SO THE CONTRACTOR MAY COMPLETE THE FOCUSING DURING DAYTIME HOURS. THE CONTRACTOR IS TO LOCK BUT NOT OVER-TIGHTEN ALL LUMINAIRES SO THAT LAMPHOLDERS WILL NOT MOVE DURING SUBSEQUENT RELAMPING.

15 "CUSTOM COLOR", WHEN NOTED, REQUIRES THE CONTRACTOR TO COORDINATE AND PROVIDE SPECIAL COLORS. CONTRACTOR TO VERIFY ALL OCCURRENCES WITH THE ARCHITECT, AND NOTE LUMINAIRE TYPES MAY BE INSTALLED AT DIFFERENT ARCHITECTURAL CEILING OR WALL FINISHES, THUS SEPARATE COLORS FOR EACH MATERIAL MAY BE REQUIRED. INCLUDE WITHIN COST ADDITIONAL SET-UP CHARGES FOR "CUSTOM COLORS".

16 ATTIC STOCK: CONTRACTOR TO INCLUDE COST OF 20% ATTIC STOCK IN BID FOR THE FOLLOWING TYPES OF LUMINAIRES, ACCESSORIES, AND COMPONENTS: LINEAR LUMINAIRE TYPES IN QUANTITIES AND LENGTHS AS REPRESENTED IN THE DRAWINGS, LENSES, REMOVABLE LUMINAIRE TRIMS, DRIVERS, BOTH REMOTE AND INTEGRAL, HOUSINGS, WHERE LUMINAIRE AND HOUSING ARE SEPARATE ENTITIES, CUSTOMIZED COMPONENTS INCLUDING...

17 CONTROL SYSTEM: CONTRACTOR TO PROVIDE PERSONNEL AND EQUIPMENT AS REQUIRED BY LIGHTING CONTROL SYSTEM MANUFACTURER FOR SYSTEM START-UP, LEVEL SET, AND COMMISSIONING. UNDER NO CIRCUMSTANCES SHALL CONTRACTOR EXCLUDE THE COST OF FACTORY START-UP AND TRAINING VISITS FROM THEIR BID IF SUCH SERVICES ARE REQUIRED BY CONTROL SYSTEM MANUFACTURER. CONTRACTOR TO NOTE THAT CONTROL SYSTEM MANUFACTURER MAY HAVE SPECIFIC TIME-LINES AND/OR REQUIRED, PHASED, SITE VISITS DURING THE INSTALLATION OF THE SYSTEM AND TO COORDINATE SAME WITH PROJECT SCHEDULE AND LEAD TIME.
A. AS NOTED IN #4 ABOVE, ALL DIMMING, SENSOR OPERATION, AND CONTROL ZONE GROUPINGS SHALL BE TESTED AND OPERATIONAL PRIOR TO COMMENCING ANY START-UP ACTIVITIES.

18 A CONTROL SYSTEMS INTEGRATOR IS REQUIRED FOR THIS PROJECT. GENERAL CONTRACTOR, OR THEIR ELECTRICAL SUB TO CONTRACT WITH A QUALIFIED LIGHTING CONTROL SYSTEMS INTEGRATOR TO ENSURE THAT THE CONTROL INTENT SPECIFIED ELSEWHERE CAN BE ACHEIVED AND THAT THE LUMINAIRES CONTROLED VIA DMX-512A AND THOSE CONTROLED BY OTHER PROTOCOLS CAN BE OPERATED SIMALTANEOUSLY AND WITHOUT...

19 LED REPLACEMENT LAMPS: WHERE NOTED REQUIRES DISTRIBUTOR TO COORDINATE AND PROVIDE APPROPRIATE LED REPLACEMENT LAMPS FOR LUMINAIRES WITH SCREW BASE SOCKETS. TAKE CARE TO ASSURE THAT ALL REPLACEMENT LAMPS, REGARDLESS OF BASE ARE CONSISTENT IN COLOR APPEARANCE AND WILL DIM WITH SPECIFIED SYSTEM. ALL NON-SHIELDED LAMPS SHALL HAVE FILAMENT STYLE LIGHT ELEMENT. PROVIDE A FULL SUITE OF LAMPS FOR LIGHTING DESIGNER'S APPROVAL WITH SUBMISSION. PROVIDE A COMPLETE LIST OF ALL LAMPS WHICH WILL BE FURNISHED ON THE PROJECT. THIS LIST SHALL BE ORGANIZED ALPHABETICALLY BY LUMINAIRE TYPE INDICATED ON THE LUMINAIRE SCHEDULE, AND INCLUDE THE MANUFACTURER AND EXACT MODEL ORDERING CODE OF EACH LAMP.

20 CUSTOM OR CUSTOMIZED LUMINAIRE: WHERE NOTED REFERS TO EITHER A LUMINAIRE DESIGNED FOR THIS SPECIFIC PROJECT ONLY, OR MAY REFER TO A SPECIFIC ELEMENT OF THE LUMINAIRE THAT IS BEING CHANGED FOR USE WITHIN THIS PROJECT. IN EITHER CASE, BIDDERS ARE ENCOURAGED TO COMMUNICATE WITH MANUFACTURERS WHERE NOTED DURING THE PREPARATION OF BIDS AND TO REFER ANY QUESTIONS TO THE DESIGN TEAM IN THE FORM OF RFI'S. REQUESTS FOR CHANGE ORDERS THAT COULD HAVE BEEN RESOLVED IN ADVANCE, BASED ON THE INFORMATION PROVIDED AND A STANDARD RFI WILL NOT BE HONORED OR REFERRED TO THE CLIENT. IN INSTANCES WHERE THE LUMINAIRE IS DESCRIBED AS IN DEVELOPMENT WITH THE SELECTED MANUFACTURER, CONFIRM THAT PROVIDED PRICE IS SUFFICIENT TO INCLUDE ADJUSTMENTS TO THE OVERALL SIZE, FINISH, MATERIALS, ETC. DURING THE SUBMISSION PROCESS.

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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: 3/14/2025
REVIEWED BY: RS&H
DRAWN BY: BWG
DESIGNED BY: CRD
PROJECT NUMBER:
2003-0070-006

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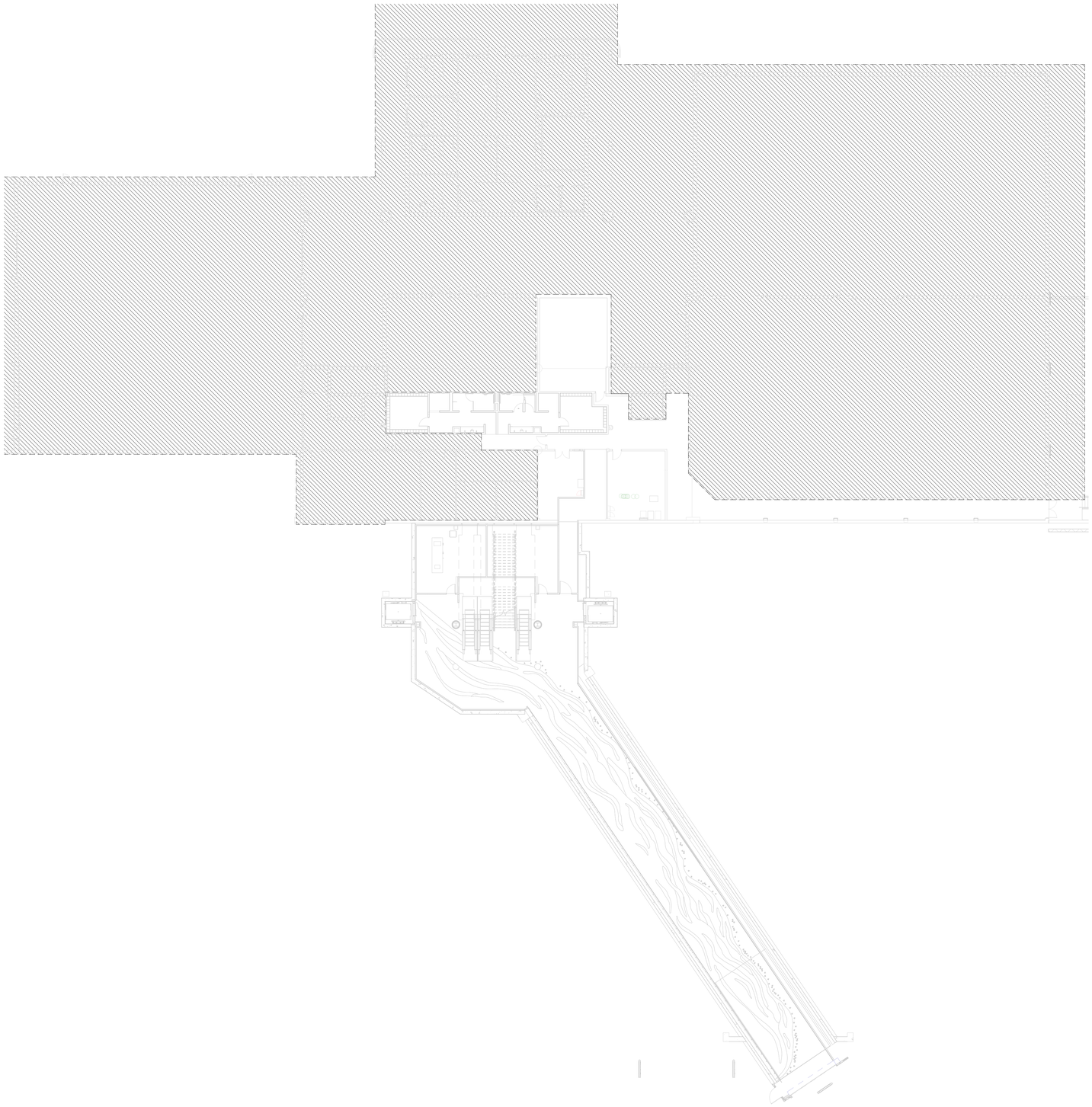
SHEET TITLE:
EXTERIOR LUMINIARE SCHEDULE

SHEET ID:
EL602

PROJECT STATUS:
100% BID SET

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PN N

A1 OVERALL RAMP LEVEL ELECTRICAL POWER PLAN

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

16 0 16 32

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

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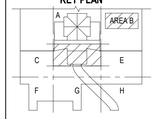
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ILM

PROJECT TITLE:
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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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

PROJECT NUMBER:
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SHEET TITLE:

OVERALL RAMP LEVEL ELECTRICAL POWER PLAN

SHEET ID:

EP101

PROJECT STATUS:
100% BID SET

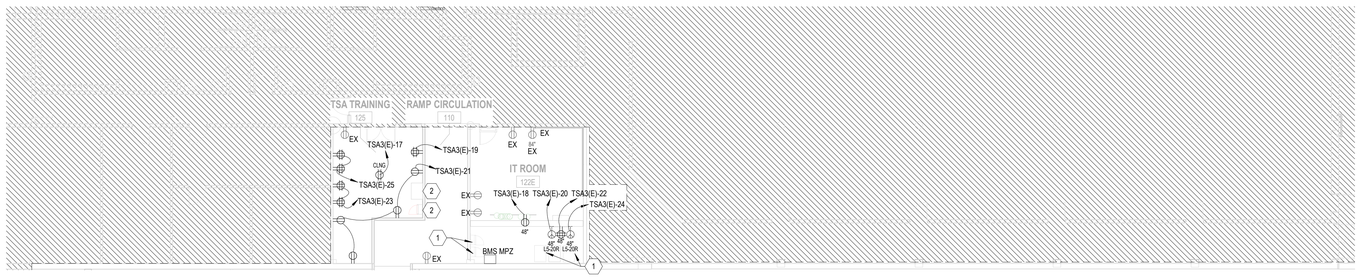
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KEYNOTES

1 EXISTING CIRCUITS AND DEVICES FEEDING EXISTING TELECOM EQUIPMENT ARE TO REMAIN. VERIFY FUNCTIONALITY POST DEMOLITION.

2 RELOCATE ELECTRICAL CONNECTION AND EXTEND EXISITNG TSA RACK CIRCUIT TO NEW LOCATION.



PN N

A1 PARTIAL RAMP LEVEL ELECTRICAL POWER PLAN

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

8 0 8 16 24

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

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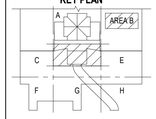
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ILM

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

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KEY PLAN



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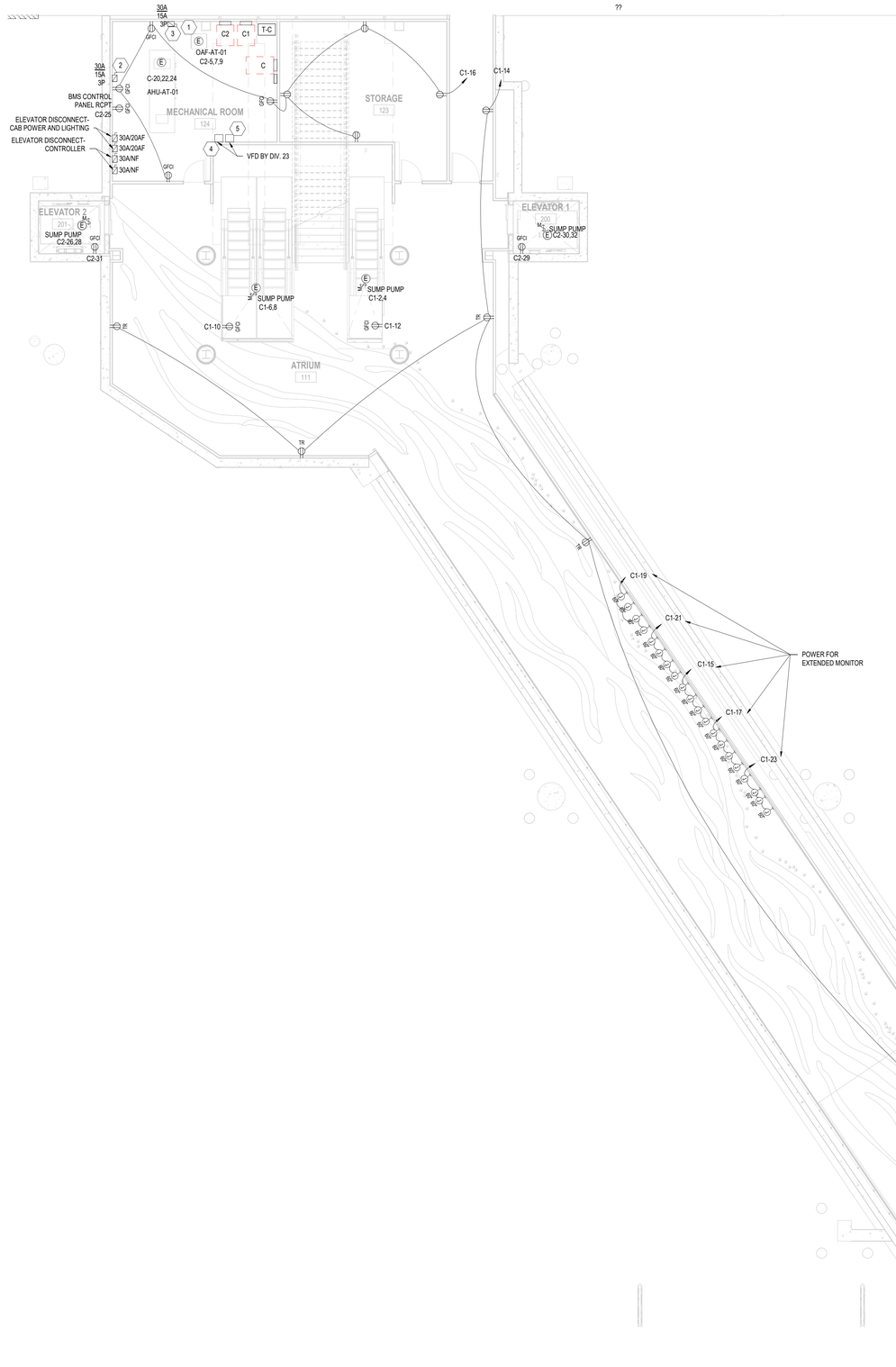
SHEET TITLE:
PARTIAL RAMP LEVEL ELECTRICAL POWER PLAN

SHEET ID:
EP102

PROJECT STATUS:
100% BID SET

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KEYNOTES

1. ROUTE POWER THROUGH VFD LOCATED IN RAMP LEVEL MECHANICAL ROOM 124. SEE SHEET M402 FOR ADDITIONAL INFORMATION.
2. AHU DISCONNECT
3. OAF DISCONNECT
4. OAF VFD
5. ROOFTOP RAF VFD

PN

A1 PARTIAL RAMP LEVEL ELECTRICAL POWER PLAN - CONNECTOR

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

8 0 8 16 24

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

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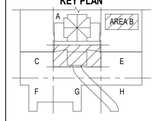
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ILM

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

PROJECT ADDRESS:
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KEY PLAN



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NO.	DESCRIPTION	DATE

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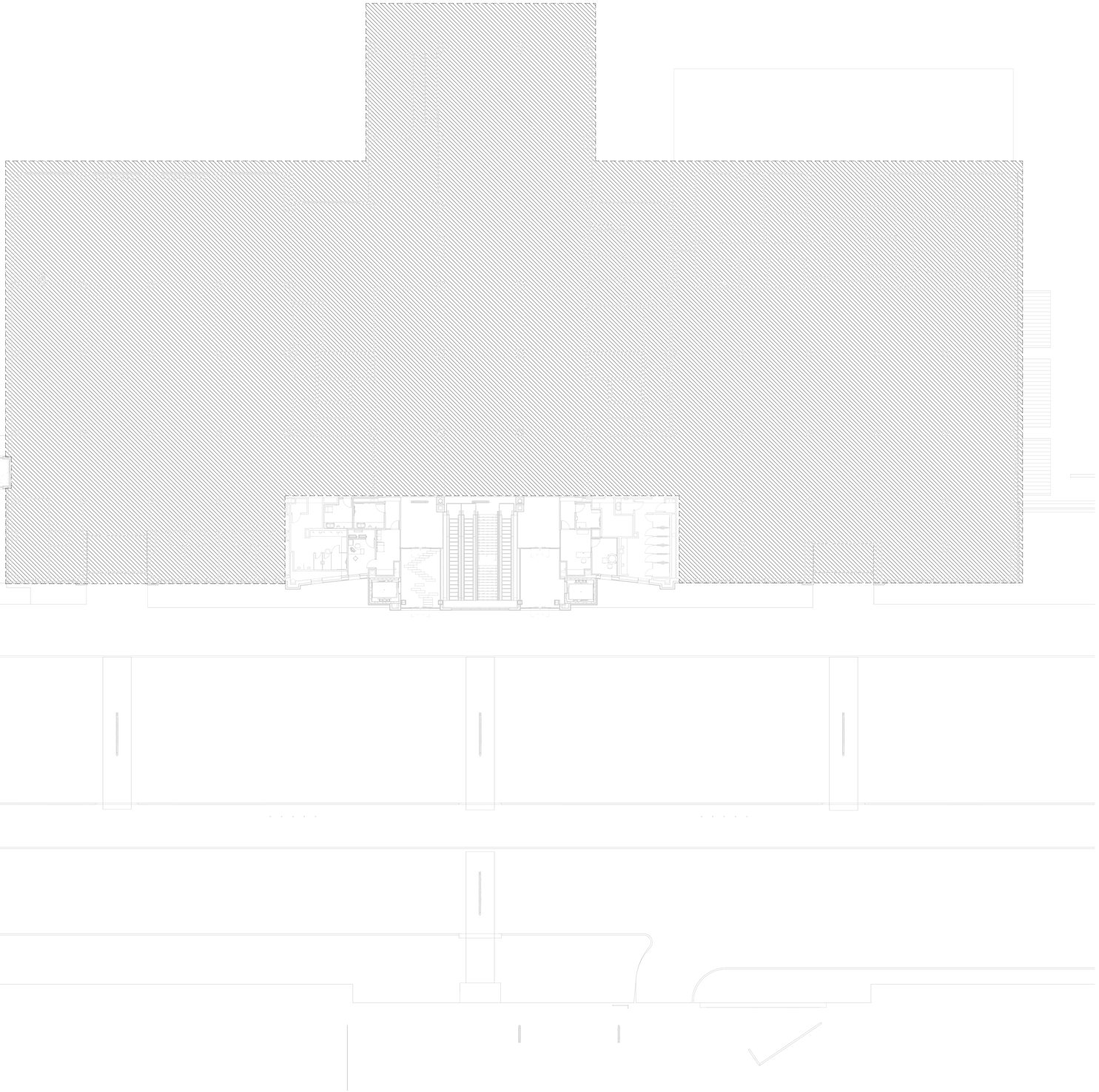
SHEET TITLE:
PARTIAL RAMP LEVEL ELECTRICAL POWER PLAN - CONNECTOR

SHEET ID:
EP103

PROJECT STATUS:
100% BID SET

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PN N

A1 OVERALL TICKETING LEVEL ELECTRICAL POWER PLAN

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

16 0 16 32

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

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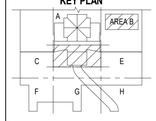
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ILM

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

PROJECT ADDRESS:
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KEY PLAN



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SHEET TITLE:
OVERALL TICKETING LEVEL ELECTRICAL POWER PLAN

SHEET ID:
EP106

PROJECT STATUS:
100% BID SET

GENERAL NOTES

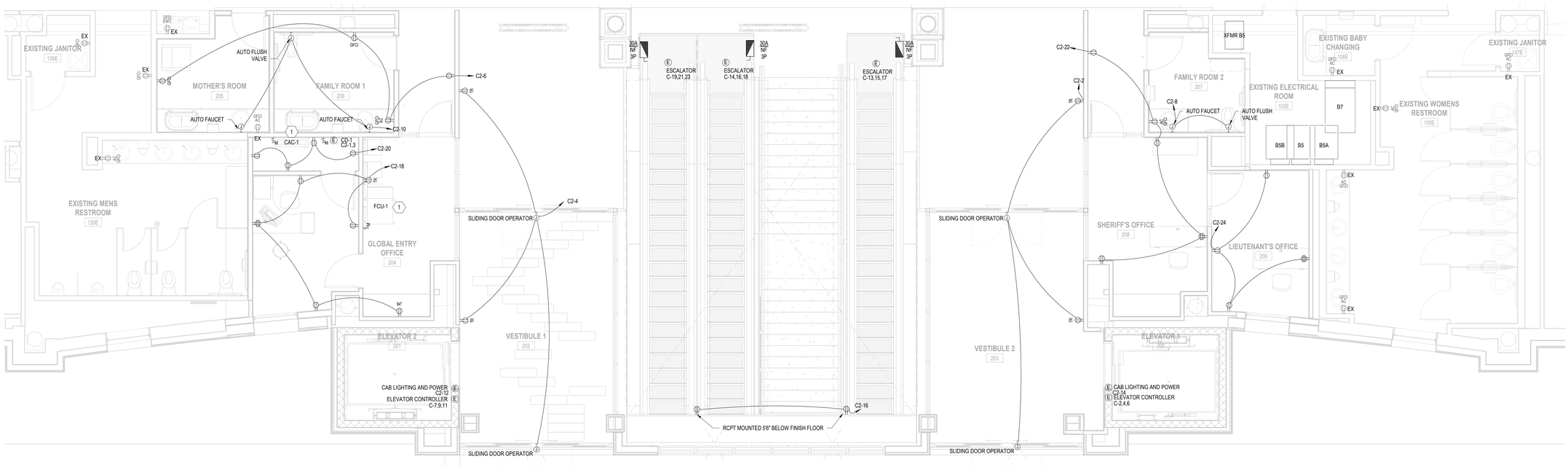
A. STAGE REMOVAL OF EXISTING ELECTRICAL DISTRIBUTION TO MINIMIZE DISRUPTION OF TERMINAL OPERATIONS. ALL OUTAGES WILL BE COORDINATED WITH AIRPORT AT LEAST 1 WEEK PRIOR TO OUTAGE.

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

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

KEYNOTES

1 INDOOR UNIT POWER FEED FROM OUTDOOR UNIT, FURNISH AND INSTALL TOGGLE SWITCH TO DISCONNECT ALL UNGROUNDED CONDUCTORS TO INDOOR UNIT.



PN N

A1 PARTIAL TICKETING LEVEL ELECTRICAL POWER PLAN - AREA B

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

4 0 4 8

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

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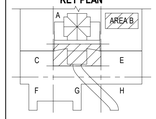
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ILM

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

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KEY PLAN



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

SHEET ID:
EP107

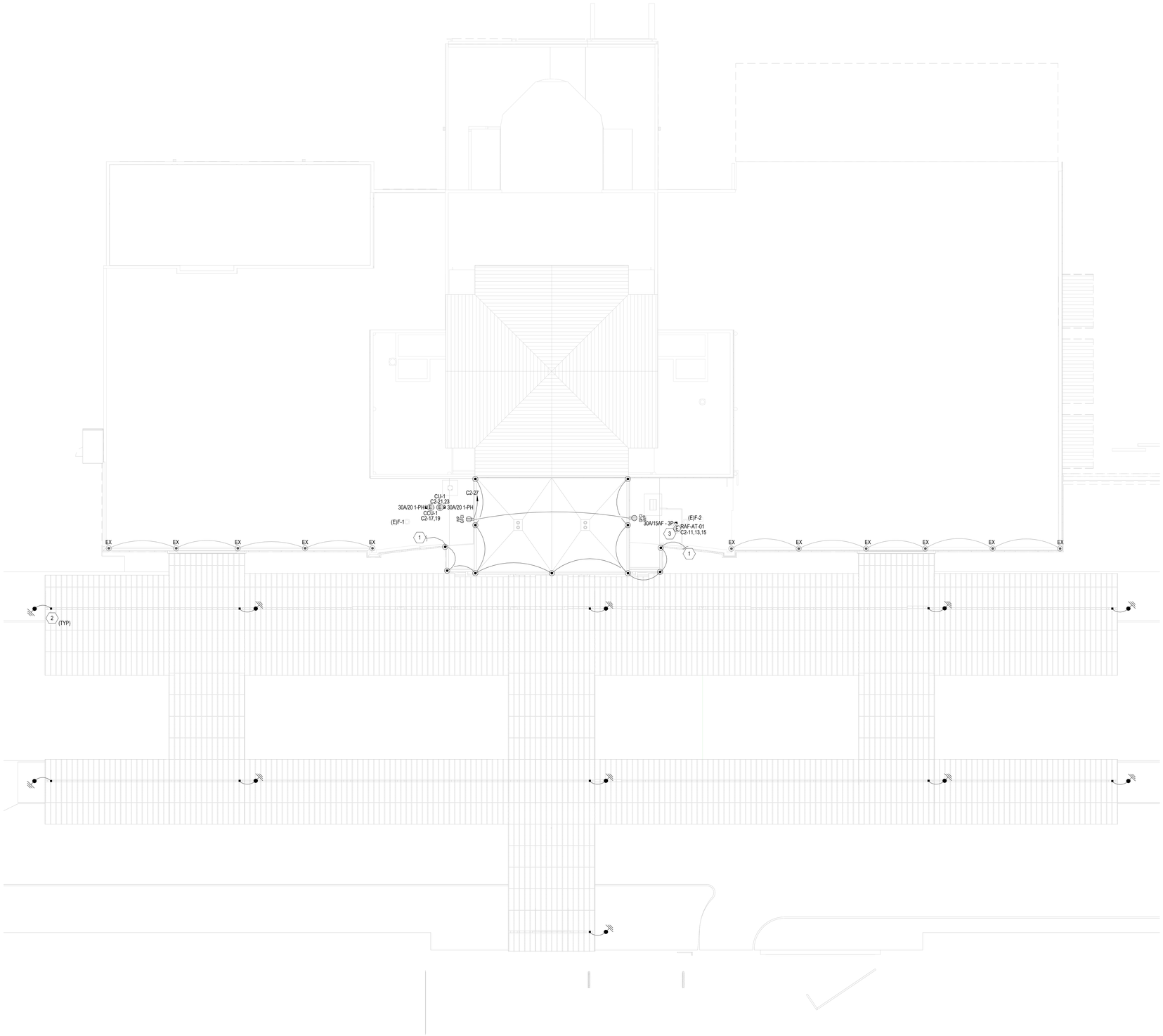
PROJECT STATUS:
100% BID SET

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KEYNOTES

1 EXTEND ROOF CONDUCTORS FROM EXISTING LIGHTING PROTECTION SYSTEM TO NEW LIGHTNING PROTECTION AIR TERMINALS.
2 EXOTHERMIC CONNECTION FROM CANOPY STRUCTURAL COLUMNS TO UFER GROUND.
3 ROUTE POWER THROUGH VFD LOCATED IN RAMP LEVEL MECHANICAL ROOM 124. SEE SHEET M402 FOR ADDITIONAL INFORMATION.



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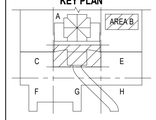
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
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KEY PLAN



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DESIGNED BY:	CRD

PROJECT NUMBER:
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SHEET TITLE:
ROOF LEVEL ELECTRICAL PLAN

SHEET ID:
EP108

PROJECT STATUS:
100% BID SET

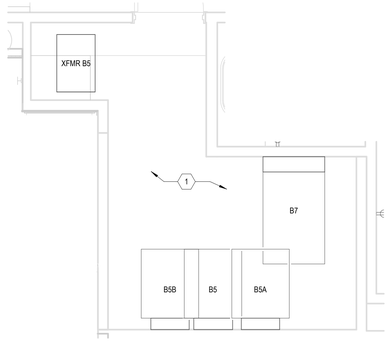
PN N

A1 ROOF LEVEL ELECTRICAL PLAN
SCALE: 1/16" = 1'-0"

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

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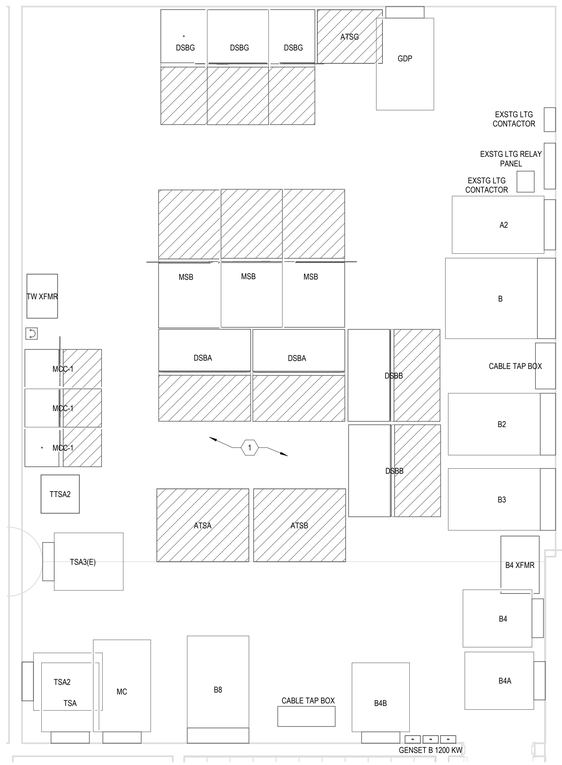
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PN N

D1 ENLARGED ELECTRICAL ROOM 105

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



PN N

A1 ENLARGED ELECTRICAL ROOM A5

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

KEYNOTES

1 ALL EQUIPMENT IS EXISTING UNO.

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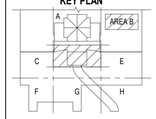
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
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KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

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DESIGNED BY:	CRD

PROJECT NUMBER:
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ENLARGED ELECTRICAL POWER PLAN

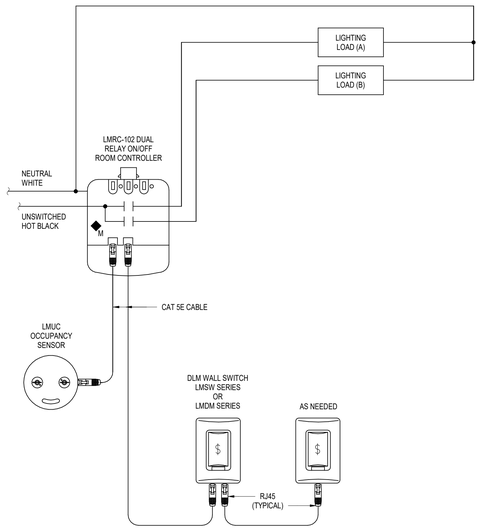
SHEET ID:
EP401

PROJECT STATUS:
100% BID SET

2 0 2 4 6
SCALE: 3/8" = 1'-0"

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SEQUENCE OF OPERATION:

THE DIGITAL CONTROLLER SHALL BE AUTOMATIC ON/OFF AS LISTED:

1. LOAD (A) TURNS ON AUTOMATICALLY UPON DETECTION OF MOTION.
2. LOAD (B) TURNS ON VIA MANUAL CONTROL OF SWITCH UPON DETECTION OF MOTION.
3. LOAD (A) AND LOAD (B) TURN OFF BY SWITCHES OR AUTOMATICALLY WITHIN 20 MINUTES OF LEAVING THE SPACE.

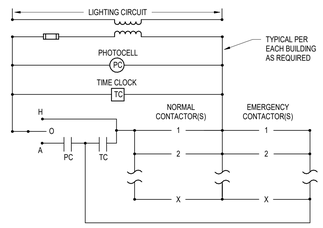
GENERAL NOTES:

1. DETAIL BASED ON WATTSTOPPER DIGITAL LIGHTING MANAGEMENT (DLM) ROOM CONTROLLER SYSTEM.
2. PROVIDE DIMMING CONTROLLERS, SWITCHES, AND WIRING WHERE REQUIRED, SEE LIGHTING FLOOR PLAN FOR LOCATIONS.

B1 LIGHTING CONTROLS

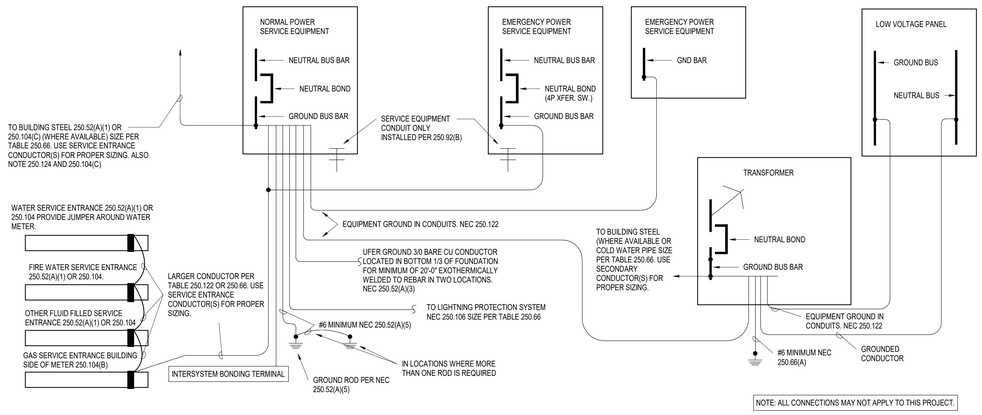
SCALE: N.T.S.

NOTE: PHOTO CELL MOUNTED ABOVE ROOF LEVEL FACING NORTH UON.



B2 LUMINAIRE CONTROLS EXTERIOR LIGHTING

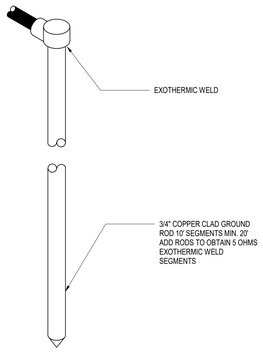
SCALE: N.T.S.



NOTE: ALL CONNECTIONS MAY NOT APPLY TO THIS PROJECT.

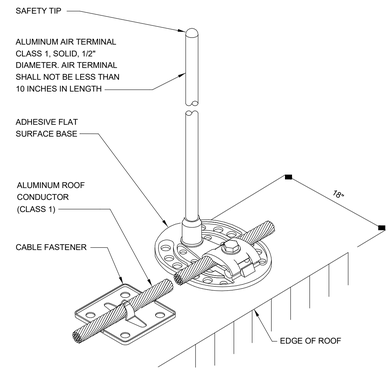
A1 GROUNDING RISER DETAIL

SCALE: N.T.S.



A4 GROUND ROD DETAIL

SCALE: N.T.S.



A5 ADHESIVE AIR TERMINAL DETAIL

SCALE: N.T.S.

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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:	3/14/2025
REVIEWED BY:	RS&H
DRAWN BY:	BWG
DESIGNED BY:	CRD
PROJECT NUMBER:	**2003-0070-006**

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SEAL:

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SHEET TITLE:
ELECTRICAL DETAILS

SHEET ID:
E-501

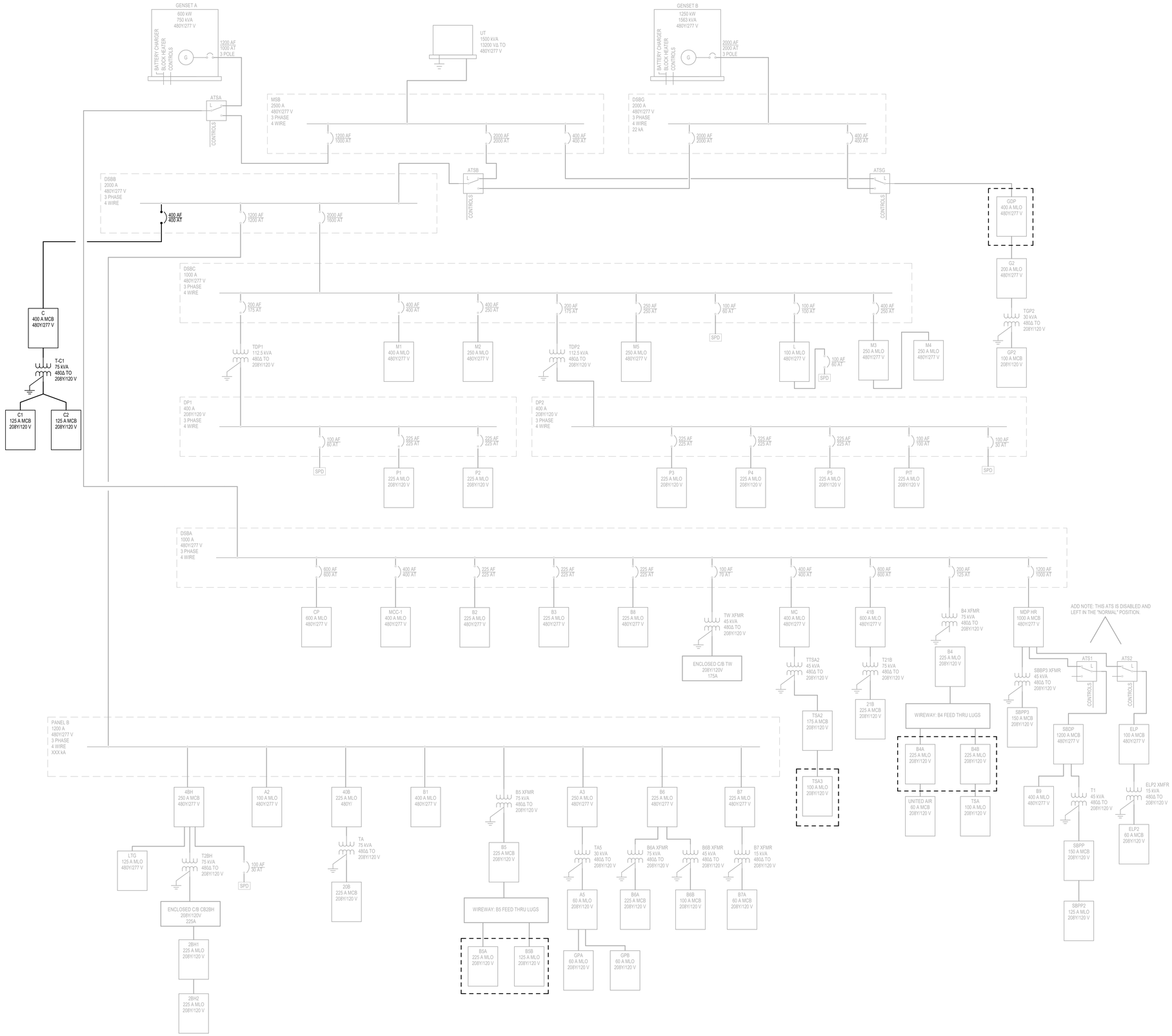
PROJECT STATUS:
100% BID SET

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GENERAL NOTES

A. SEE SHEET EP602 FOR TRANSFORMER OCP AND FEEDER SIZES.



A1 EXISTING SINGLE LINE DIAGRAM BASE BID

SCALE: N.T.S.

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SHEET TITLE:

PARTIAL ELECTRICAL ONE-LINE DIAGRAM

SHEET ID:

EP601

PROJECT STATUS:
100% BID SET

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208Y/120 VAC 3 PHASE 4 WIRE					PANELBOARD TSA3(E) LOCATION ELECTRICAL A5										100 A BUS W/ 100 A MLO 10 kA SCCR, BOTTOM FEED, SURFACE MOUNT		
CKT NO	BREAKER TRIP / POLE		LOAD CLASS & LOCATION	ID	NOTES	L1	L2	L3	L1	L2	L3	NOTES	ID	LOAD CLASS & LOCATION	BREAKER TRIP / POLE		CKT NO
1	20 A	2	EXISTING LOAD			1.40			0.18					EXISTING LOAD	1	20 A	2
3							1.40			0.18				EXISTING LOAD	1	20 A	4
5	20 A	2	EXISTING LOAD					1.40			0.18			EXISTING LOAD	1	20 A	6
7						1.40			0.18					EXISTING LOAD	1	20 A	8
9	20 A	2	EXISTING LOAD				1.40			0.18				EXISTING LOAD	1	20 A	10
11								1.40			0.18			EXISTING LOAD	1	20 A	12
13	20 A	2	EXISTING LOAD			1.40			0.18					EXISTING LOAD	1	20 A	14
15							1.40			0.18				EXISTING LOAD	1	20 A	16
17	20 A	1	TSA TRAINING PROJECTOR					0.50			0.50			SECURITY PANEL	1	20 A	18
19	20 A	1	TSA XRAY SIMULATOR			0.50			1.92					IT RACK	1	20 A	20
21	20 A	1	TSA TRAINING RCPT				0.90			1.92				IT RACK	1	20 A	22
23	20 A	1	TSA WORKSTATION					0.72			1.92			IT RACK	1	20 A	24
25	20 A	1	TSA WORKSTATION			0.72			0.00					SPARE	1	20 A	26
27	20 A	1	SPARE				0.00			0.00				SPARE	1	20 A	28
29	20 A	1	SPARE					0.00			0.00			SPARE	1	20 A	30
31	20 A	1	SPARE			0.00			0.00					SPARE	1	20 A	32
33	20 A	1	SPARE				0.00			0.00				SPARE	1	20 A	34
35	20 A	1	SPARE					0.00			0.00			SPARE	1	20 A	36
37	20 A	1	SPARE			0.00			0.00					SPARE	1	20 A	38
39	20 A	1	SPARE				0.00			0.00				SPARE	1	20 A	40
41	20 A	1	SPARE					0.00			0.00			SPARE	1	20 A	42
						L1			L2						L3		
			TOTAL CONNECTED LOAD:			7880 VA			7560 VA						6800 VA		

NEW LOAD TOTALS
NONCONTINUOUS: 9600 VA
CONTINUOUS: 0 VA
NONCONTINUOUS + 125% CONTINUOUS: 9600 VA
NONCONTINUOUS + 125% CONTINUOUS: 26.6 A

GENERAL NOTES:
EXISTING LOAD ON PANEL TSA3 IS 31.4A PER AS BUILT DOCUMENTATION.

NOTES:

Branch Panel: C

Location: MECH. 124
Supply From: DSBB
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480Y/277 VAC
Phases: 3
Wires: 4

A.I.C. Rating: 65
Mains Type: MCB
Mains Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1					22.03 kVA	6.08 kVA									2
3	T-C1	150 A	3				19.57 kVA	6.08 kVA				3	30 A	ELEVATOR	4
5									21.75 kVA	6.08 kVA					6
7					6.08 kVA	0.94 kVA						1	20 A	CONNECTOR LIGHTING	8
9	ELEVATOR	30 A	3				6.08 kVA	0.02 kVA				1	20 A	ELEVATOR PIT LIGHTING	10
11									6.08 kVA	0.02 kVA		1	20 A	ELEVATOR PIT LIGHTING	12
13					3.88 kVA	3.88 kVA									14
15	ESCALATOR	30 A	3				3.88 kVA	3.88 kVA				3	30 A	ESCALATOR	16
17									3.88 kVA	3.88 kVA					18
19					3.88 kVA	1.33 kVA									20
21	ESCALATOR	30 A	3				3.88 kVA	1.33 kVA				3	15 A	AHU-AT-1	22
23									3.88 kVA	1.33 kVA					24
25	ESCALATOR PIT LIGHTING	20 A	1		0.05 kVA	0.62 kVA						1	20 A	STAIR EGRESS LIGHTING	26
27	TICKETING LEVEL ATRIUM LTG	20 A	1				1.06 kVA	0.08 kVA				1	20 A	FACADE LTG	28
29	RAMP LEVEL AND TUNNEL LTG	20 A	1						3.91 kVA	2.18 kVA		1	20 A	DRIVE CANOPY LTG	30
31	FACADE LTG	20 A	1		0.22 kVA	2.18 kVA						1	20 A	DRIVE CANOPY LTG	32
33	DRIVE CANOPY LTG	20 A	1				2.85 kVA	3.88 kVA				1	20 A	DRIVE CANOPY LTG	34
35	DRIVE CANOPY LTG	20 A	1						3.18 kVA	2.94 kVA		1	20 A	DRIVE CANOPY LTG	36
37	DRIVE CANOPY LTG	20 A	1		2.55 kVA	2.85 kVA						1	20 A	DRIVE CANOPY LTG	38
39	DRIVE CANOPY LTG	20 A	1				2.18 kVA								40
41															42
43															44
45															46
47										0.00 kVA		1	20 A	SPARE	48
49	SPARE	20 A	1		0.00 kVA	0.00 kVA									50
51	SPARE	20 A	1				0.00 kVA	0.00 kVA				3	20 A	SPD	52
53	SPARE	20 A	1						0.00 kVA	0.00 kVA					54
			Total Load:		56556 VA		54765 VA		59105 VA						
			Total Amps:		205.2 A		197.7 A		214.4 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
EQUIPMENT	51365 VA	100.0%	51365 VA		
Other	666 VA	100.0%	666 VA	**Total Conn. Load:**	170426 VA
LITE	44893 VA	100.0%	44893 VA	**Total Est. Demand:**	170086 VA
HVAC	7984 VA	100.0%	7984 VA	**Total Conn.:**	205 A
MOTR	47644 VA	106.1%	50554 VA	**Total Est. Demand:**	204.6 A
RCPT	16500 VA	80.3%	13250 VA		
Lighting	1375 VA	100.0%	1375 VA		

Branch Panel: C1

Location: MECH. 124
Supply From: T-C1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120 VAC
Phases: 3
Wires: 4

A.I.C. Rating: 30
Mains Type: MCB
Mains Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	SENSITILE ILLUMINATED WALL	25 A	1		2.04 kVA	0.92 kVA						2	20 A	ESCALATOR SUMP PUMP	2
3	SENSITILE ILLUMINATED WALL	25 A	1				2.04 kVA	0.92 kVA							4
5	SENSITILE ILLUMINATED WALL	25 A	1						2.04 kVA	0.92 kVA		2	20 A	ESCALATOR SUMP PUMP	6
7	SENSITILE ILLUMINATED WALL	25 A	1		2.04 kVA	0.92 kVA									8
9	SENSITILE ILLUMINATED WALL	25 A	1				2.04 kVA	1.92 kVA				1	20 A	ESCALATOR PIT RCPT	10
11	SENSITILE ILLUMINATED WALL	25 A	1						2.04 kVA	1.92 kVA		1	20 A	ESCALATOR PIT RCPT	12
13	SENSITILE ILLUMINATED WALL	25 A	1		2.04 kVA	1.08 kVA						1	20 A	RCPT CONNECTOR	14
15	CONNECTOR MONITOR	20 A	1				1.76 kVA	1.44 kVA				1	20 A	RCPT MECH AND STORAGE	16
17	CONNECTOR MONITOR	20 A	1						1.76 kVA						18
19	CONNECTOR MONITOR	20 A	1		1.76 kVA										20
21	CONNECTOR MONITOR	20 A	1				1.76 kVA								22
23	CONNECTOR MONITOR	20 A	1						1.76 kVA						24
25															26
27															28
29															30
31															32
33	SPARE	20 A	1				0.00 kVA	0.00 kVA				1	20 A	SPARE	34
35	SPARE	20 A	1						0.00 kVA	0.00 kVA		1	20 A	SPARE	36
37	SPARE	20 A	1		0.00 kVA	0.00 kVA									38
39	SPARE	20 A	1				0.00 kVA	0.00 kVA				3	20 A	SPD	40
41	SPARE	20 A	1						0.00 kVA	0.00 kVA					42
			Total Load:		10790 VA		11875 VA		10435 VA						
			Total Amps:		90.4 A		99.4 A		87 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
EQUIPMENT	8800 VA	100.0%	8800 VA		
LITE	14280 VA	100.0%	14280 VA	**Total Conn. Load:**	33101 VA
MOTR	3661 VA	112.5%	4118 VA	**Total Est. Demand:**	33558 VA
RCPT	6360 VA	100.0%	6360 VA	**Total Conn.:**	91.9 A
				Total Est. Demand:	93.1 A

Branch Panel: C2

Location: MECH. 124
Supply From: T-C1
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 208Y/120 VAC
Phases: 3
Wires: 4

A.I.C. Rating: 30
Mains Type: MCB
Mains Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	Notes	A		B		C		Notes	Poles	Trip	Circuit Description	CKT
1	CD-1	20 A	2		0.33 kVA	1.36 kVA						1	20 A	VESTIBULE RCPT & DOORS	2
3							0.33 kVA	1.36 kVA				1	20 A	VESTIBULE RCPT & DOORS	4
5									0.90 kVA	0.72 kVA		1	20 A	RCPT FAMILY AND MOTHERS RM	6
7	OAF-AT-01	15 A	3		0.90 kVA	0.29 kVA						1	20 A	AUTO PLUMB. FIXTURES & MIRROR	8
9							0.90 kVA	0.49 kVA				1	20 A	AUTO PLUMB. FIXTURES & MIRROR	10
11									0.90 kVA	1.80 kVA		1	20 A	ELEVATOR CAB LIGHTING	12
13	RAF-AT-01	20 A	3		0.90 kVA	1.80 kVA						1	20 A	ELEVATOR CAB LIGHTING	14
15							0.90 kVA	0.36 kVA				1	20 A	SIGNAGE RCPT	16
17	CCU-1	20 A	2						1.00 kVA	1.26 kVA		1	20 A	RCPT GLOBAL ENTRY	18
19					1.00 kVA	0.72 kVA						1	20 A	RCPT GLOABL ENTRY COMM	20
21	CU-1	20 A	2				1.00 kVA	1.08 kVA				1	20 A	RCPT SHERIFFS OFFICE	22
23									1.00 kVA	0.90 kVA		1	20 A	RCPT LIEUTENANT OFFICE	24
25	BMS CONTROL PANEL	20 A	1		0.18 kVA	0.92 kVA						2	20 A	ELEVATOR SUMP PUMP	26
27	ROOF MOUNTED RCPT	20 A	1				0.36 kVA	0.92 kVA							28
29	ELEVATOR PIT RCPT	20 A	1						1.92 kVA	0.92 kVA					30
31	ELEVATOR PIT RCPT	20 A	1		1.92 kVA	0.92 kVA									32
33	SPARE	20 A	1				0.00 kVA	0.00 kVA				1	20 A	SPARE	34
35	SPARE	20 A	1						0.00 kVA	0.00 kVA		1	20 A	SPARE	36
37	SPARE	20 A	1		0.00 kVA	0.00 kVA									38
39	SPARE	20 A	1				0.00 kVA	0.00 kVA				3	20 A	SPD	40
41	SPARE	20 A	1						0.00 kVA	0.00 kVA					42
			Total Load:		11237 VA		7695 VA		11313 VA						
			Total Amps:		98.2 A		64.1 A		98.8 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
EQUIPMENT	6100 VA	100.0%	6100 VA		
Other	666 VA	100.0%	666 VA	**Total Conn. Load:**	30245 VA
LITE	281 VA	100.0%	281 VA	**Total Est. Demand:**	30850 VA
HVAC	3994 VA	100.0%	3994 VA	**Total Conn.:**	84 A
MOTR	9065 VA	107.5%	9740 VA	**Total Est. Demand:**	85.6 A
RCPT	10140 VA	99.3%	10070 VA		

TRANSFORMER SCHEDULE

XFMR SIZE (KVA)	PRIMARY								SECONDARY							
	VOLTS	PHASE	BREAKER TRIP (AMPS)	CONDUCTOR			GROUND GAUGE	CONDUIT SIZE	VOLTS	PHASE	BREAKER TRIP (AMPS)	CONDUCTOR			GROUND GAUGE	CONDUIT SIZE
				SETS	QUANTITY	GAUGE						SETS	QUANTITY	GAUGE		
15	480	3	30	1	3	#10	#10	3/4"	208	3	60	1	4	#4	#8	1 1/4"
30	480	3	60	1	3	#6	#10	1"	208	3	100	1	4	#1	#6	2"
45	480	3	90	1	3	#3	#8	1 1/4"	208	3	150	1	4	#1/0	#6	2"
75	480	3	150	1	3	#1/0	#6	2"	208	3	225	1	4	#4/0	#2	2 1/2"
112.5	480	3	200	1	3	#3/0	#6	2"	208	3	400	2	4	#3/0	#2	EACH SET IN 2 1/2"
150	480	3	300	1	3	300 KCMIL	#4	2 1/2"	208	3	600	2	4	350 KCMIL	#2/0	EACH SET IN 3"
225	480	3	400	1	3	500 KCMIL	#3	3"	208	3	800	2	4	600 KCMIL	#3/0	EACH SET IN 4"
300	480	3	600	2	3	300 KCMIL	#1	EACH SET IN 2 1/2"	208	3	1200	4	4	350 KCMIL	#4/0	EACH SET IN 3"
500	480	3	1000	4	3	250 KCMIL	#2/0	EACH SET IN 2 1/2"	208	3	2000	5	4	600 KCMIL	400 KCMIL	EACH SET IN 4"
750	480	3	1600	4	3	600 KCMIL	#4/0	EACH SET IN 3 1/2"	208	3	3000	8	4	500 KCMIL	500 KCMIL	EACH SET IN 3 1/2"

GENERAL NOTES:
A. GROUNDING ELECTRODE CONDUCTOR SIZE IS PER NEC TABLE 250.66.
B. PRIMARY GROUND (EQUIPMENT GROUND) CONDUCTOR SIZE IS PER NEC TABLE 250.122.
C. SECONDARY GROUND (SUPPLY SIDE BONDING JUMPER) CONDUCTOR SIZE IS PER NEC 250.102(C)(1). SECONDARY GROUND CONDUCTOR SIZE ASSUMES A SINGLE CONDUCTOR FOR SINGLE OR PARALLEL SETS, MULTIPLE SECONDARY GROUND CONDUCTORS ARE ACCEPTABLE AND SHALL BE SIZED PER NEC TABLE 250.102.
D. CONTRACTOR SHALL INCREASE FEEDER SIZES WHEN THEY ARE LONGER THEN 165' FOR 208 V AND 185' FOR 480 V.
E. CONDUCTORS FEEDING K-RATED TRANSFORMERS REQUIRE 200% NEUTRAL CONDUCTORS WITH CONDUIT SIZED PER NEC.
F. ALL CONDUCTOR SIZES ARE BASED ON COPPER.

BRANCH CIRCUIT SCHEDULE

BREAKER TRIP (AMPS)	COPPER WIRE (75°C)	MAXIMUM DISTANCE (FEET)			
		1Ø		3Ø	
		120 V	277 V	208 V	480 V
15	12	75'	173'	150'	346'
20	12	56'	130'	113'	260'
	10	94'	216'	187'	443'
30	10	62'	144'	125'	289'
	8	96'	222'	192'	444'
35	8	82'	190'	165'	381'
	6	131'	303'	263'	605'
40	8	72'	166'	144'	333'
	6	115'	265'	230'	530'
45	6	102'	235'	204'	471'
	4	161'	372'	323'	745'
50	6	92'	212'	184'	424'
	4	145'	335'	291'	670'
60	6	76'	176'	152'	353'
	4	121'	280'	243'	559'
70	4	KEYNOTE 1		208'	479'
	3			257'	594'
80	4	KEYNOTE 1		182'	421'
	3			225'	520'
90	3	KEYNOTE 1		200'	462'
	2			250'	578'
100	3	KEYNOTE 1		180'	415'
	2			225'	520'

GENERAL NOTES:
1. SEE DRAWINGS FOR WIRE SIZING WHEN DISTANCE EXCEEDS VALUES SHOWN.
2. DISTANCE IS WIRE LENGTH TO FIRST OUTLET/DEVICE/EQUIPMENT FROM OVERCURRENT PROTECTION.
3. PROVIDE CONDUIT SIZE PER NEC.
4. BASIS OF VOLTAGE DROP CALCULATIONS IS 3% DROP, 80% CIRCUIT LOAD, THHN/THWN INSULATION, 100% POWER FACTOR, BALANCED LOAD, NEGLIGIBLE REACTANCE, AND 6 OR LESS CURRENT-CARRYING CONDUCTORS IN RACEWAY.

KEYNOTE:
1. SEE DRAWINGS FOR WIRE SIZING.

FEEDER SCHEDULE

BREAKER TRIP (AMPS)	TYPE	CONDUCTOR			MIN. GEC (SE) MIN. EGC (Δ/Y)	MINIMUM CONDUIT SIZE
		SETS	QUANTITY	GAUGE		
30	Δ	1	3	#10	#10	3/4"
	Y		4			
40	Δ	1	3	#8	#10	3/4"
	Y		4			1"
50	Δ	1	3	#6	#10	1"
	Y		4			
60	Δ	1	3	#6	#10	1"
	Y		4			
70	Δ	1	3	#4	#8	1 1/4"
	Y		4			
90	Δ	1	3	#3	#8	1 1/4"
	Y		4			
100	SE	1	4	#2	#1/0	1 1/4"
	Δ		3		#8	
	Y		4			
110	Δ	1	3	#2	#6	1 1/4"
	Y		4			1 1/2"
125	SE	1	4	#1	#6	1 1/2"
	Δ		3		#6	
	Y		4			2"
150	SE	1	4	#1/0	#6	2"
	Δ		3		#6	
	Y		4			
175	Δ	1	3	#2/0	#6	2"
	Y		4			
200	SE	1	4	#3/0	#4	2"
	Δ		3		#6	
	Y		4			2 1/2"
225	SE	1	4	#4/0	#2	2 1/2"
	Δ		3		#4	
	Y		4			
250	Δ	1	3	250 KCMIL	#4	2 1/2"
	Y		4			3"
300	Δ	1	3	300 KCMIL	#4	3"
	Y		4			
350	Δ	1	3	350 KCMIL	#3	3"
	Y		4			
400	SE	1	4	500 KCMIL	#1/0	3 1/2"
	Δ		3		#3	
	Y		4			
500	Δ	2	3	#4/0	#2	EACH SET IN 2 1/2"
	Y		4			
600	SE	2	4	300 KCMIL	#1/0	EACH SET IN 3"
	Δ		3		#1	
	Y		4			
800	SE	2	4	500 KCMIL	#2/0	EACH SET IN 3 1/2"
	Δ		3		#1/0	
	Y		4			
1000	SE	4	4	250 KCMIL	#2/0	EACH SET IN 2 1/2"
	Δ		3			
	Y		4			
1200	SE	4	4	350 KCMIL	#3/0	EACH SET IN 3"
	Δ		3			
	Y		4			
1600	SE	4	4	600 KCMIL	#3/0	EACH SET IN 4"
	Δ		3		#4/0	
	Y		4			
2000	SE	5	4	600 KCMIL	#3/0	EACH SET IN 4"
	Δ		3		250 KCMIL	
	Y		4			
2500	SE	6	4	600 KCMIL	#3/0	EACH SET IN 4"
	Δ		3		350 KCMIL	
	Y		4			
3000	SE	8	4	500 KCMIL	#3/0	EACH SET IN 4"
	Δ		3		400 KCMIL	
	Y		4			
G	REFER TO "GROUNDING RISER DETAIL" FOR CONDUCTOR SIZE.					
T	REFER TO "TRANSFORMER SCHEDULE" FOR CONDUCTOR SIZE.					
U	REFER TO "ELECTRICAL UTILITY MATRIX" FOR ADDITIONAL INFORMATION.					

GENERAL NOTES:
1. ALL FEEDER TYPES SCHEDULED MAY NOT APPLY TO THIS PROJECT.
2. MAXIMUM 2% VOLTAGE DROP FOR FEEDERS; 3% VOLTAGE DROP FOR BRANCH CIRCUITS.
3. ADJUST CONDUCTOR & GEC SIZE FOR LONG RUNS AND TEMPERATURE ABOVE DESIGN AMBIENT TEMPERATURE.
4. CONDUIT SIZING IS BASED ON CONDUCTORS WITH THHW INSULATION.

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ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

REVISIONS

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DATE ISSUED: 3/14/2025
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DRAWN BY: BWG
DESIGNED BY: CRD
PROJECT NUMBER: 2003-0070-006

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SEAL:

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SHEET TITLE:
ELECTRICAL POWER PANEL SCHEDULES

SHEET ID:
EP602

PROJECT STATUS:
100% BID SET

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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 SECURITY CAMERA 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.
- AV — AV DISPLAY OUTLET, WALL-MOUNTED -TWO (2) CAT 6 RJ45 JACKS (BLUE) WITH BLUE CAT 6. REFER TO DETAIL 11 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 1/5-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, STERLE AREA, AND SECURED SPACES WHILE PERFORMING WORK IN THOSE AREAS. CONTRACTOR SHALL COORDINATE WORK WITH AIRPORT SECURITY, TSA, AND TENANTS.

COMMUNICATIONS SHEET INDEX

SHEET NUMBER	SHEET NAME
T001	COMMUNICATIONS GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
T101	OVERALL COMMUNICATIONS RAMP LEVEL PLAN
T103	PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - AREA B
T104	PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - AREA C
T105	COMMUNICATIONS RAMP LEVEL FLOOR PLAN - CONNECTOR
T106	COMMUNICATIONS OVERALL TICKET LEVEL FLOOR PLAN
T107	COMMUNICATIONS PARTIAL TICKET LEVEL FLOOR PLAN - AREA A
T108	COMMUNICATIONS PARTIAL TICKET LEVEL FLOOR PLAN - AREA B
T109	COMMUNICATIONS PARTIAL TICKET LEVEL FLOOR PLAN - AREA C
T401	ENLARGED COMMUNICATIONS PLANS
T501	COMMUNICATIONS DETAILS
T502	COMMUNICATIONS DETAILS
T701	COMMUNICATIONS BLOCK DIAGRAM
T702	COMMUNICATIONS RISER DIAGRAM
T703	COMMUNICATIONS INTERCONNECT DIAGRAM

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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:
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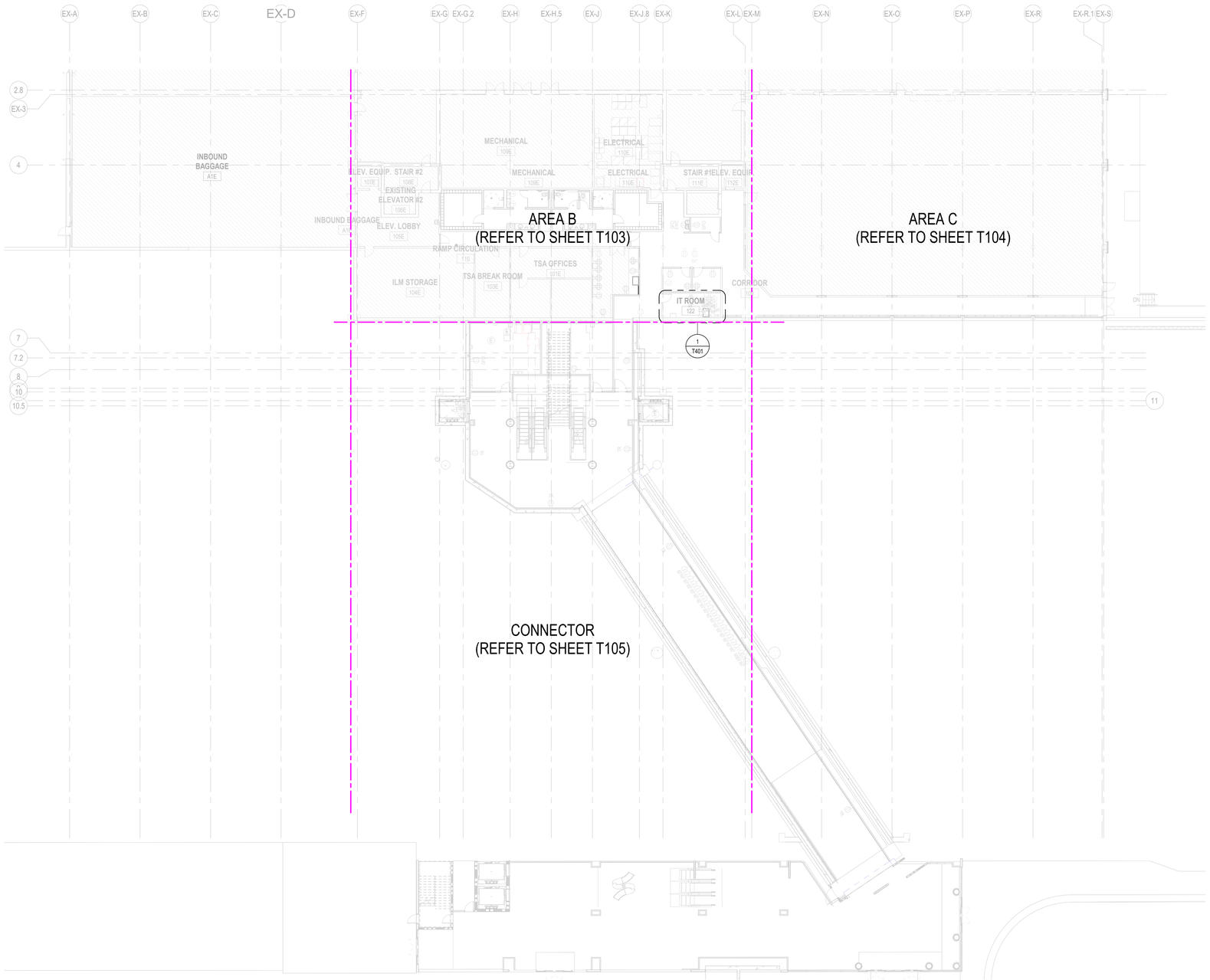
SHEET TITLE:
COMMUNICATIONS GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET ID:
T001

PROJECT STATUS:
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PN

N

1 OVERALL COMMUNICATIONS RAMP LEVEL PLAN

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

16 0 16 32

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

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WILMINGTON, NC 28405

KEY PLAN

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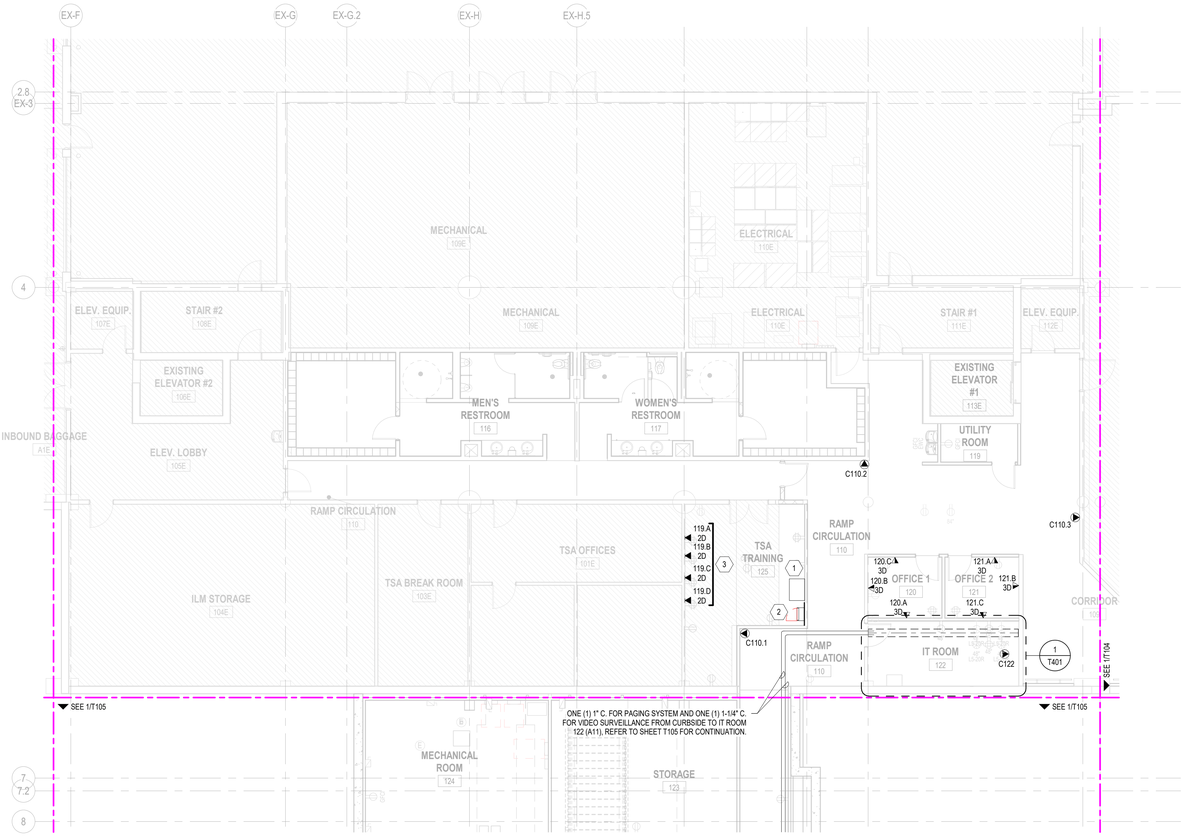
SHEET TITLE:
OVERALL COMMUNICATIONS RAMP LEVEL PLAN

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T101

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PN

1 PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - AREA B

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

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

NOTES:

1. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. REFER TO COMMUNICATIONS INTERCONNECT AND RISER DIAGRAMS FOR CABLE AND CONDUIT REQUIREMDNTS. SEE SHEET T001 FOR MODULE REQUIREMENTS FOR EACH OUTLET BY TYPE.
3. CONTRACTOR SHALL COORDINATE WORK WITH THE ELECTRICAL AND SECURITY CONTRACTORS AND OTHER TRADES AS REQUIRED.
4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW NETWORK SWITCHES AND COMMUNICATIONS EQUIPMENT WITH THE OWNER.
5. 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.
6. REFER TO CABLE TRAY AND J-HOOK DETAILS ON SHEET T502.
7. CABLES FROM SURVEILLANCE CAMERAS SHALL BE ROUTED IN DEDICATED CONDUIT TO THE COMMUNICATIONS ROOM. CABLES FROM COMMUNICATIONS DEVICES SHALL BE BUNDLED, SUPPORTED ON J-HOOKS AND ROUTED ABOVE SUSPENDED CEILING TO THE SHARED CABLE TRAY.
8. CONDUITS SHALL BE USED TO BRIDGE AREAS OF HARD CEILING OR OTHER SPACES WHERE CABLE TRAY WILL BE INACCESSIBLE AFTER INSTALLATION.
9. APPROVED UL DEVICES SHALL BE USED TO SEAL PENETRATIONS THROUGH FIRE RATED WALLS.

KEY NOTES:

1. EXISTING TSA COMMUNICATIONS CABINET IN RELOCATED POSITION. CONTRACTOR SHALL COORDINATE CABINET RELOCATION WITH TSA IT REPRESENTATIVE. COORDINATE POWER REQUIREMENTS WITH DIVISION 26.
2. EXISTING WALL-MOUNTED TSA COMMUNICATIONS CABINET IN RELOCATED POSITION. CONTRACTOR SHALL COORDINATE CABINET RELOCATION WITH TSA IT REPRESENTATIVE. COORDINATE POWER REQUIREMENTS WITH DIVISION 26.
3. RETERMINATE FOUR (4) - TWO (2) DATA OUTLETS CONNECTED TO TSA COMMUNICATIONS CABINET. COORDINATE OUTLET LOCATIONS WITH TSA IT REPRESENTATIVE AND COLLOCATE WITH DUPLEX RECEPTACLES PROVIDED BY DIVISION 26. COORDINATE WORK WITH THE ELECTRICAL CONTRACTOR.

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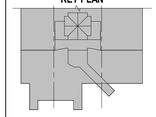
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ILM

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

PROJECT ADDRESS:
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KEY PLAN



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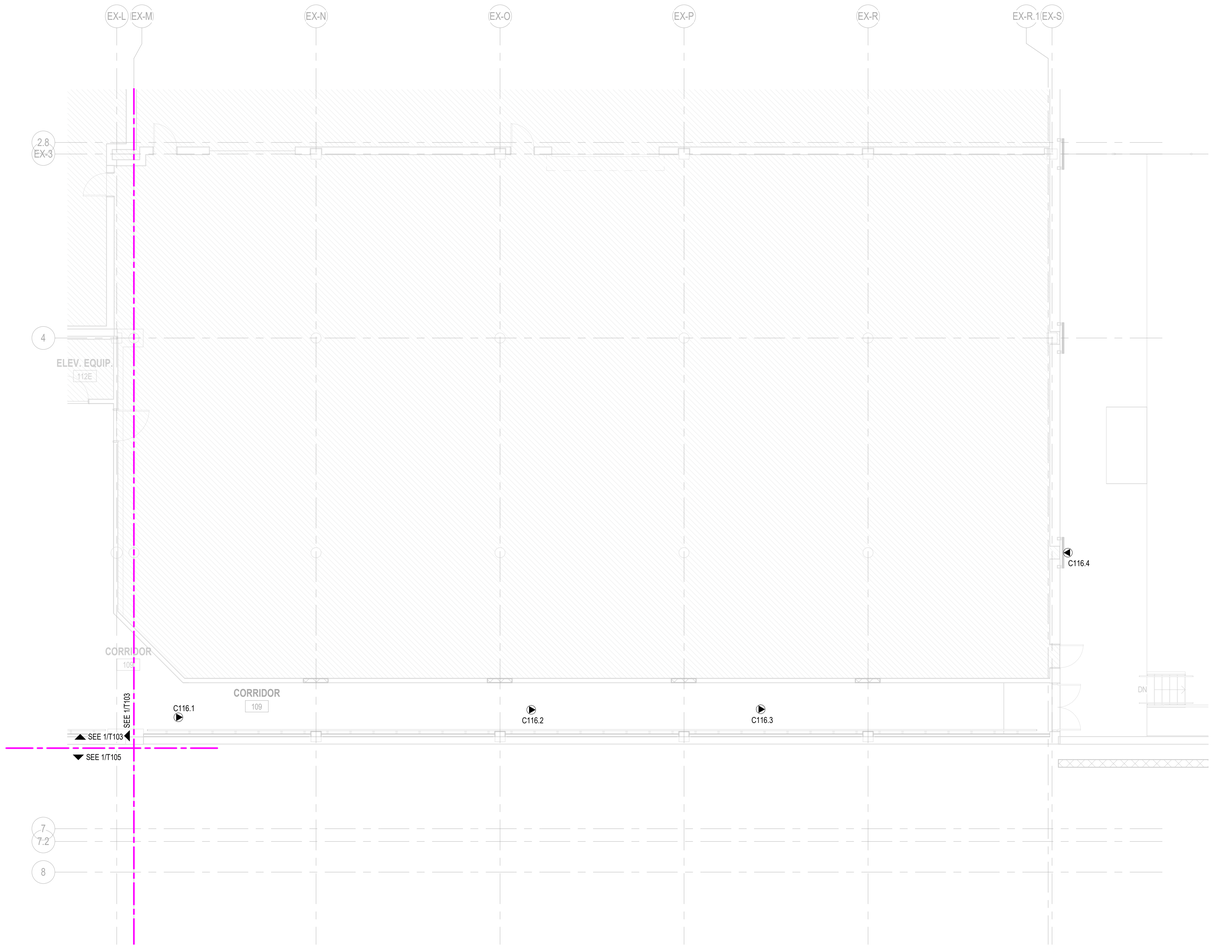
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PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - AREA B

SHEET ID:
T103

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PN
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1 PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - AREA C

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

NOTES:

1. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. REFER TO COMMUNICATIONS INTERCONNECT AND RISER DIAGRAMS FOR CABLE AND CONDUIT REQUIREMENTS. SEE SHEET T001 FOR MODULE REQUIREMENTS FOR EACH OUTLET BY TYPE.
3. CONTRACTOR SHALL COORDINATE WORK WITH THE ELECTRICAL AND SECURITY CONTRACTORS AND OTHER TRADES AS REQUIRED.
4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW NETWORK SWITCHES AND COMMUNICATIONS EQUIPMENT WITH THE OWNER.
5. 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.
6. REFER TO CABLE TRAY AND J-HOOK DETAILS ON SHEET T502.
7. CABLES FROM SURVEILLANCE CAMERAS SHALL BE ROUTED IN DEDICATED CONDUIT TO THE COMMUNICATIONS ROOM. CABLES FROM COMMUNICATIONS DEVICES SHALL BE BUNDLED, SUPPORTED ON J-HOOKS AND ROUTED ABOVE SUSPENDED CEILING TO THE SHARED CABLE TRAY.
8. CONDUITS SHALL BE USED TO BRIDGE AREAS OF HARD CEILING OR OTHER SPACES WHERE CABLE TRAY WILL BE INACCESSIBLE AFTER INSTALLATION.
9. APPROVED UL DEVICES SHALL BE USED TO SEAL PENETRATIONS THROUGH FIRE RATED WALLS.

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

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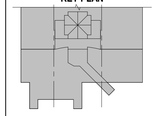
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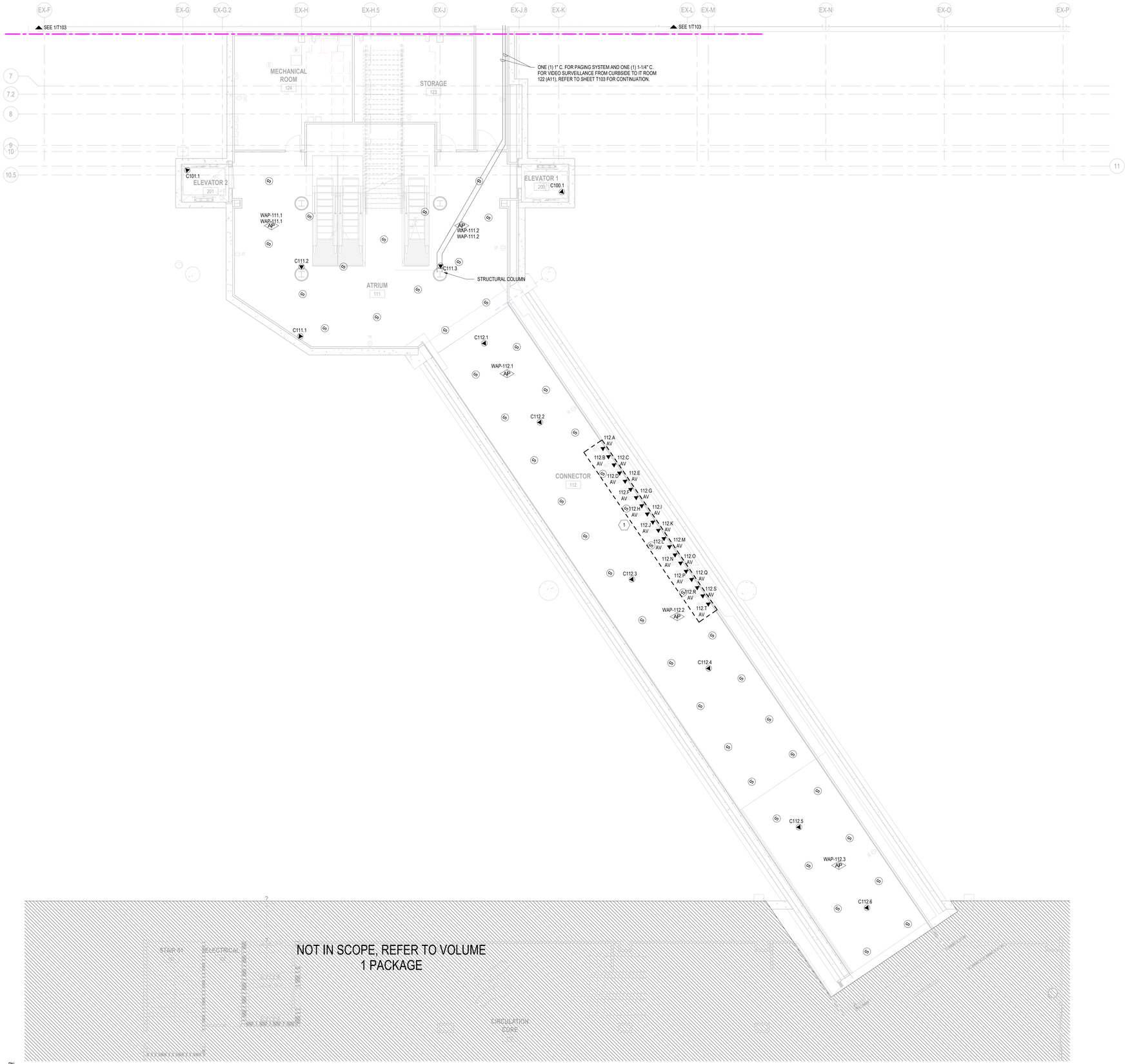
SHEET TITLE:
PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - AREA C

SHEET ID:
T104

PROJECT STATUS:
100% BID SET

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3/14/2025 8:55:28 PM Autodesk Docs://1003007006_ILM TO4 Ramp Int Improv Design/2003007006_ILM_T06_Terminal and Tunnel_T_R24.rvt



NOTES:

1. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW AND PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
2. REFER TO COMMUNICATIONS INTERCONNECT AND RISER DIAGRAMS FOR CABLE AND CONDUIT REQUIREMDNTS. SEE SHEET T001 FOR MODULE REQUIREMENTS FOR EACH OUTLET BY TYPE.
3. CONTRACTOR SHALL COORDINATE WORK WITH THE ELECTRICAL AND SECURITY CONTRACTORS AND OTHER TRADES AS REQUIRED.
4. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF NEW NETWORK SWITCHES AND COMMUNICATIONS EQUIPMENT WITH THE OWNER.
5. 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.
6. REFER TO CABLE TRAY AND J-HOOK DETAILS ON SHEET T502.
7. CABLES FROM SURVEILLANCE CAMERAS SHALL BE ROUTED IN DEDICATED CONDUIT TO THE COMMUNICATIONS ROOM. CABLES FROM COMMUNICATIONS DEVICES SHALL BE BUNDLED, SUPPORTED ON J-HOOKS AND ROUTED ABOVE SUSPENDED CEILING TO THE SHARED CABLE TRAY.
8. CONDUITS SHALL BE USED TO BRIDGE AREAS OF HARD CEILING OR OTHER SPACES WHERE CABLE TRAY WILL BE INACCESSIBLE AFTER INSTALLATION.
9. APPROVED UL DEVICES SHALL BE USED TO SEAL PENETRATIONS THROUGH FIRE RATED WALLS.

KEY NOTES:

1. NANO LUMENS WALL-MOUNTED DISPLAYS. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CABLING, MOUNTS AND WALL-MOUNTED DISPLAYS. SEE A308 AND EP105 FOR ADDITIONAL INFORMATION. REFEE TO SHEET T401 (T401-2) FOR RACK MOUNTED CONTROLLER.

1 PARTIAL COMMUNICATIONS RAMP LEVEL PLAN - CONNECTOR

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

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

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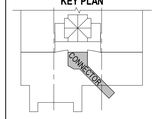
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

KEY PLAN



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	2003-0070-006

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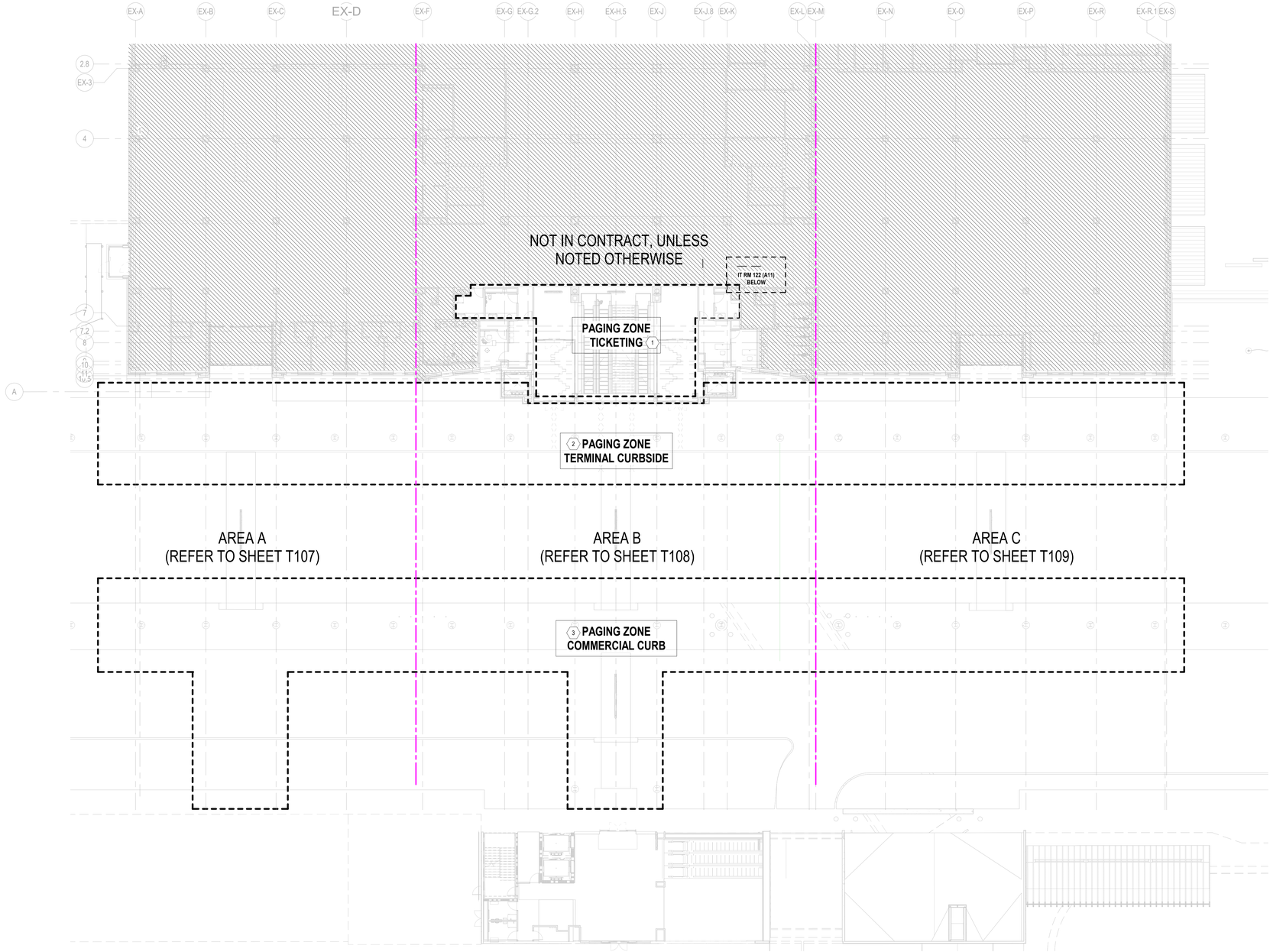
SHEET TITLE:
COMMUNICATIONS RAMP LEVEL FLOOR PLAN - CONNECTOR

SHEET ID:
T105

PROJECT STATUS:
100% BID SET

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PN

N

1 OVERALL COMMUNICATIONS FLOOR PLAN - TICKET LEVEL

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

16 0 16 32

SCALE: 1/16" = 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/DELETING 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 3/4" CONDUIT. ONE (1) 1" CONDUIT WILL BE ROUTED THROUGH THE CAST-IN-PLACE COLUMN TO ENTER THE GROUND LEVEL GARAGE EQUIPMENT ROOM.

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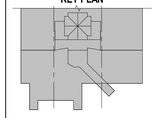
Hartranft Lighting Design

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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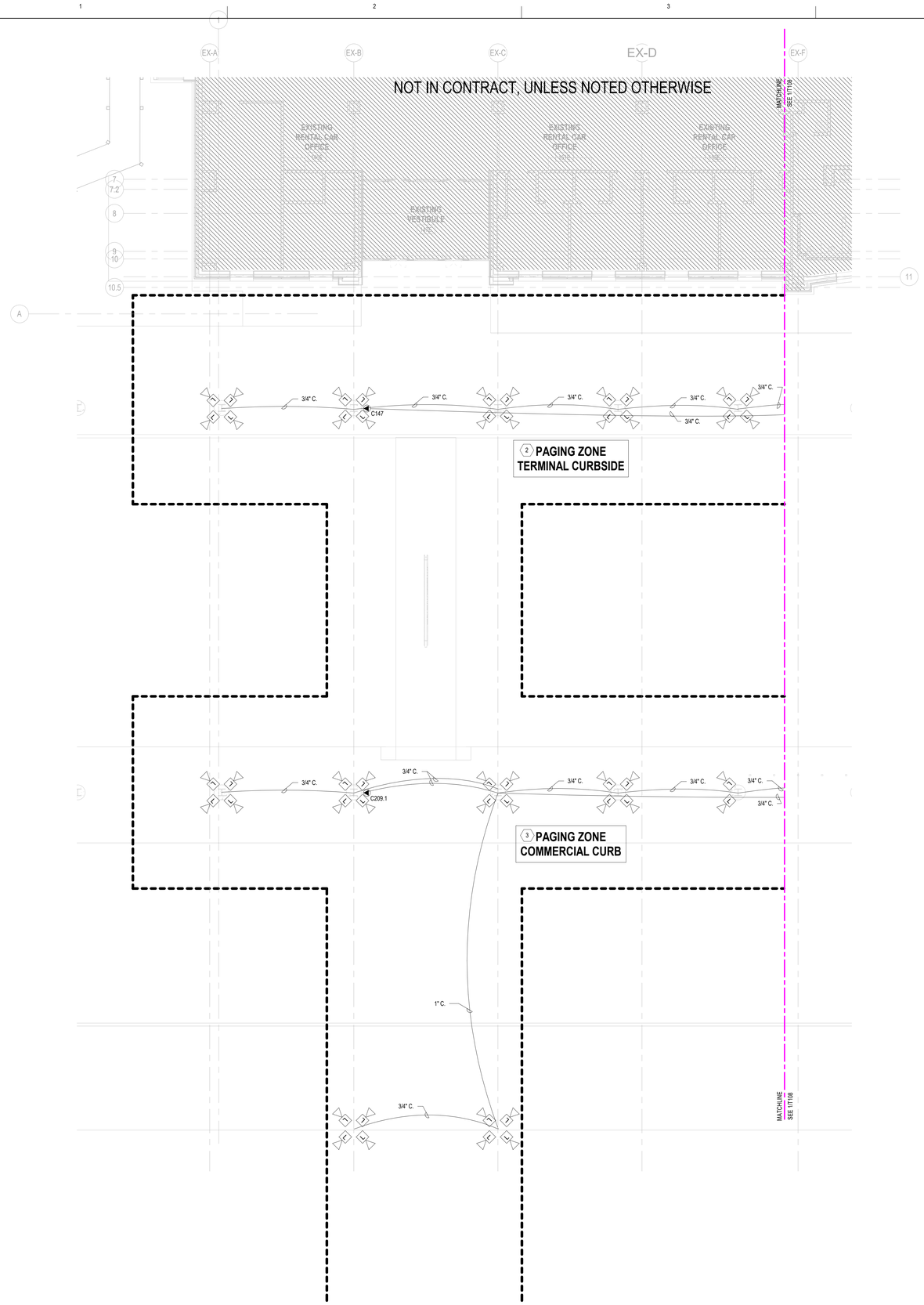
SHEET TITLE:
COMMUNICATIONS OVERALL TICKET LEVEL FLOOR PLAN

SHEET ID:
T106

PROJECT STATUS:
100% BID SET

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1 PARTIAL TICKET LEVEL FLOOR PLAN - AREA A

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. NOT USED.
2. 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 BUILDING AND BE ROUTED TO IT ROOM (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.

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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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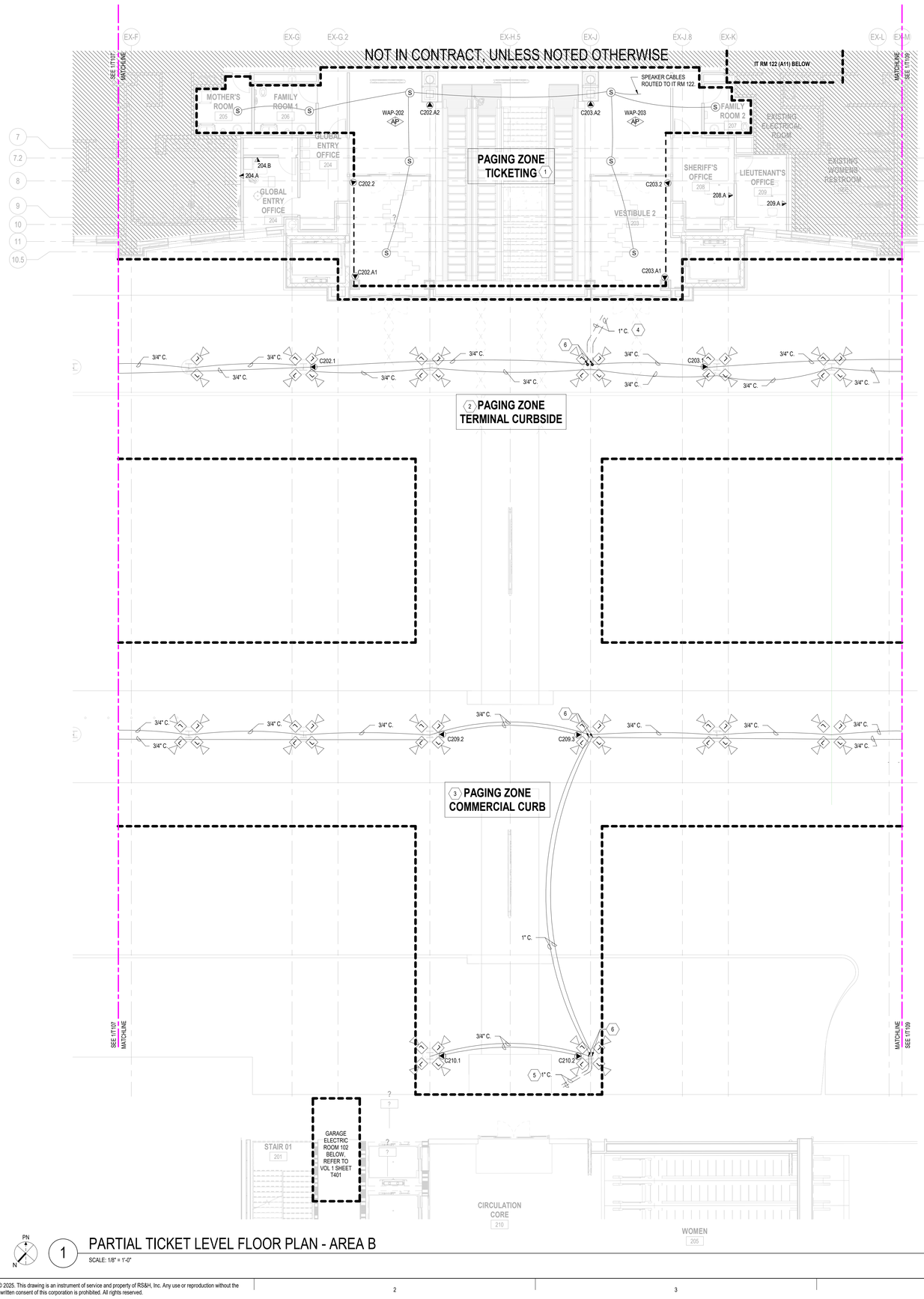
SHEET TITLE:
COMMUNICATIONS PARTIAL TICKET LEVEL FLOOR PLAN - AREA A

SHEET ID:
T107

PROJECT STATUS:
100% BID SET

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1 PARTIAL TICKET LEVEL FLOOR PLAN - 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.
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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.
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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 1/2" 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 (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



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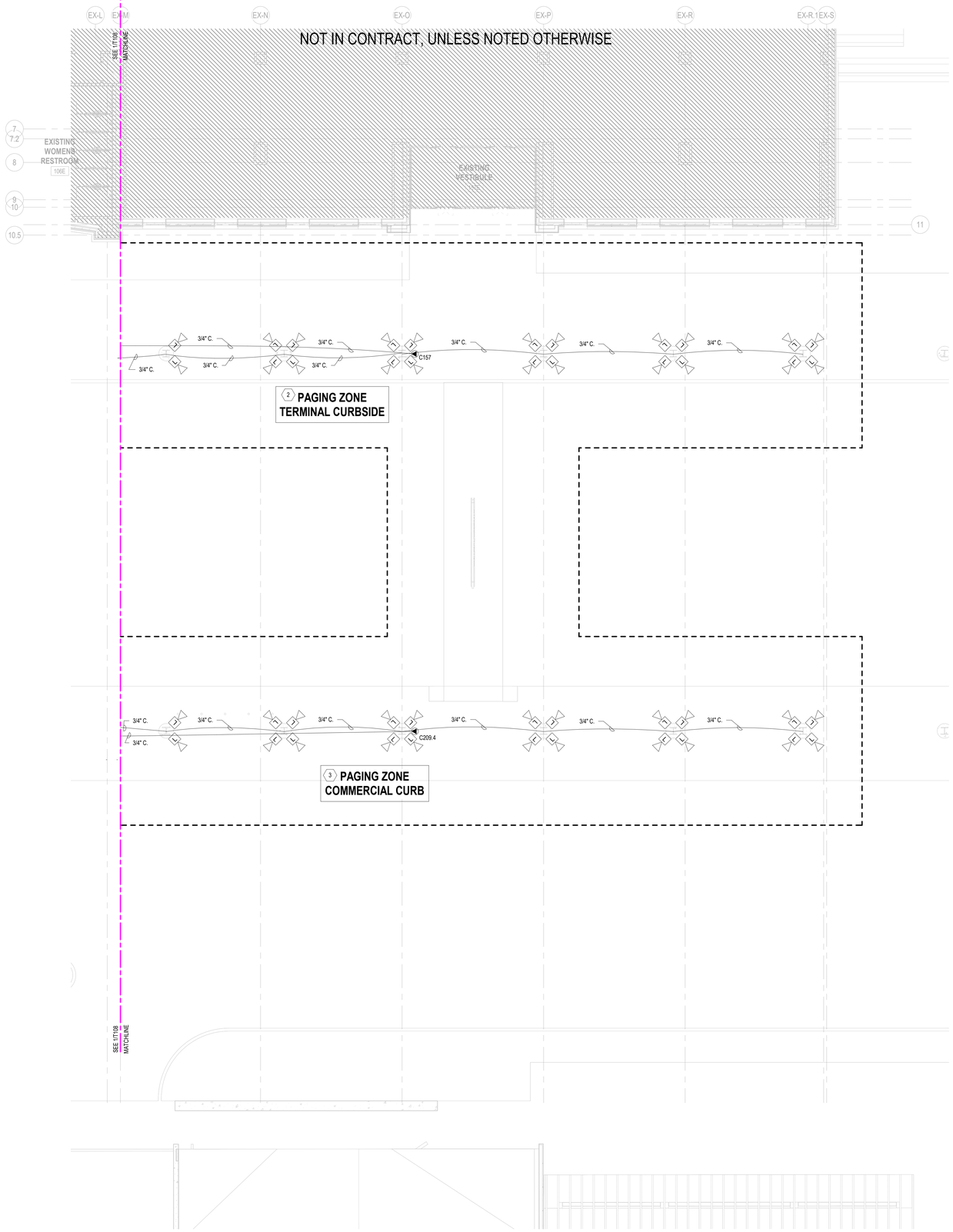
SHEET TITLE:
COMMUNICATIONS PARTIAL TICKET LEVEL FLOOR PLAN - AREA B

SHEET ID:
T108

PROJECT STATUS:
100% BID SET

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1 PARTIAL TICKET LEVEL FLOOR PLAN - AREA C

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.
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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. NOT USED.
2. 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 BUILDING AND BE ROUTED TO IT ROOM (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.

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

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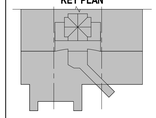
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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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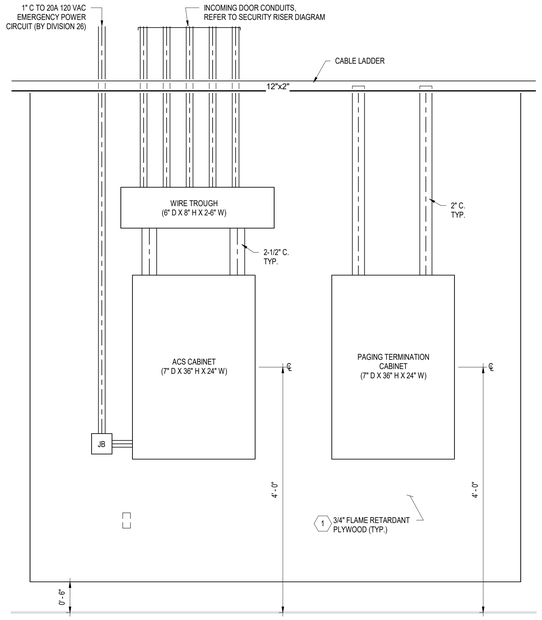
SHEET TITLE:
COMMUNICATIONS PARTIAL TICKET LEVEL FLOOR PLAN - AREA C

SHEET ID:
T109

PROJECT STATUS:
100% BID SET

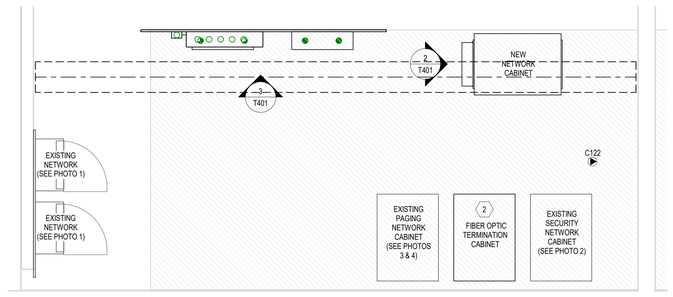
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3 PARTIAL WALL ELEVATION - IT ROOM 122 (A11)

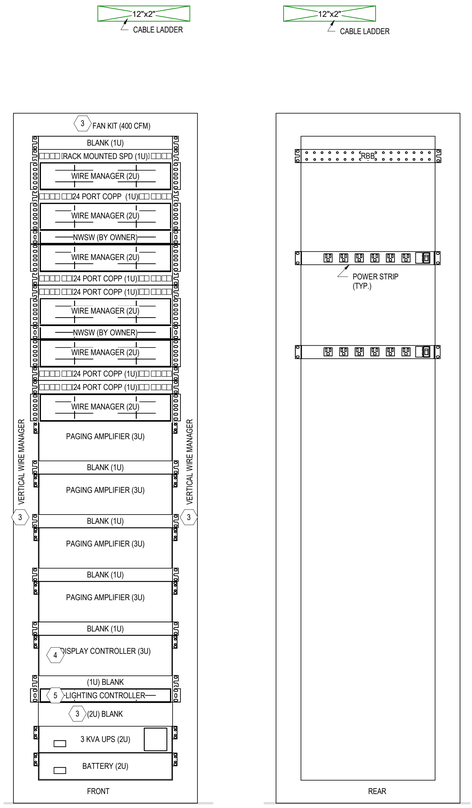
SCALE: 1" = 1'-0"



PN

1 ENLARGED PLAN IT ROOM 122 (A11) RAMP LEVEL PLAN

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



2 CABINET ELEVATION - IT RM 122 (A11)

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. EXISTING FIBER OPTIC TERMINATION CABINET. REFER TO VOLUME 1 FOR 48-STAND SM FIBER FROM GARAGE IDF PROVIDED BY ELECTRICAL, REFER TO SHEET E318.
3. PROVIDE LOCKABLE CABINET WITH VERTICAL WIRE MANAGEMENT (FRONT & REAR), FAN KIT (400 CFM MIN.) AND BLANK PANELS IN ALL UNUSED OPENINGS IN THE FRONT.
4. 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.
5. SENSITILE LONG RANGE PIXEL CONTROLLER HUB (BY DIV 26). LIGHTING CONTRACTOR SHALL FURNISH AND INSTALL WITH THE SENSITILE ILLUMINATED WALL SYSTEM. SEE A308 AND EL105 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 REQUIREMENTS. 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)

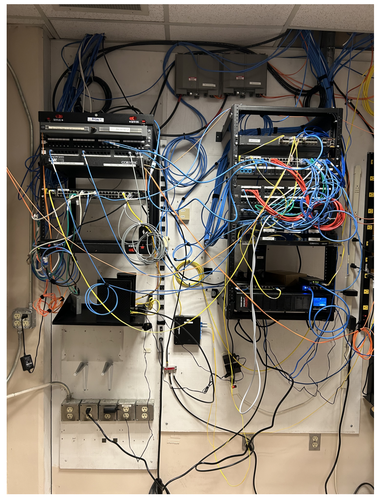


PHOTO 1 (EXISTING NETWORK)



PHOTO 2 (EXISTING SECURITY NETWORK)

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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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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SEAL:

SHEET TITLE:
ENLARGED COMMUNICATIONS PLANS

SHEET ID:
T401

PROJECT STATUS:
100% BID SET

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NOTES:

1. ALL EQUIPMENT, DEVICES AND CABLING SHALL BE NEW UNLESS OTHERWISE NOTED.
2. REFER TO COMMUNICATIONS INTERCONNECT AND RISER DIAGRAMS ON SHEETS T702 AND T703 FOR ADDITIONAL INFORMATION.
3. DIMENSIONS PROVIDED ARE FOR CONTRACTOR INFORMATION ONLY, VERIFY ALL DIMENSIONS IN THE FIELD.

KEY NOTES: ⬡

1. PROVIDE SPD ENCLOSURE, REFER TO DETAIL 10 ON THIS SHEET.
2. PROVIDE POE ETHERNET OVER COAX EXTENDER FOR VIDEO SURVEILLANCE CAMERA IN ELEVATOR CAB, REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. VIDEO SURVEILLANCE SIGNAL SHALL BE TRANSMITTED VIA ELEVATOR TRAVELING CABLE, COORDINATE WITH ELEVATOR INSTALLER.
4. COORDINATE WITH ELEVATOR INSTALLER FOR LOCATION OF CONTROLLER AND CONNECTION POINT TO TRAVELING CABLE. CONTRACTOR SHALL PROVIDE ALL JUMPERS (CAT6 AND COAX) AS REQUIRED TO MAKE CONNECTIONS FOR IN-CAB CAMERAS AND ELEVATOR TELEPHONE.
5. COORDINATE WITH ELEVATOR INSTALLER TERMINATION LOCATION FOR DATA OUTLETS TO BE USED FOR ELEVATOR COMMUNICATIONS (ELEVATOR TELEPHONE).

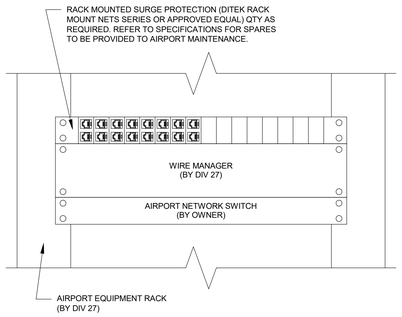
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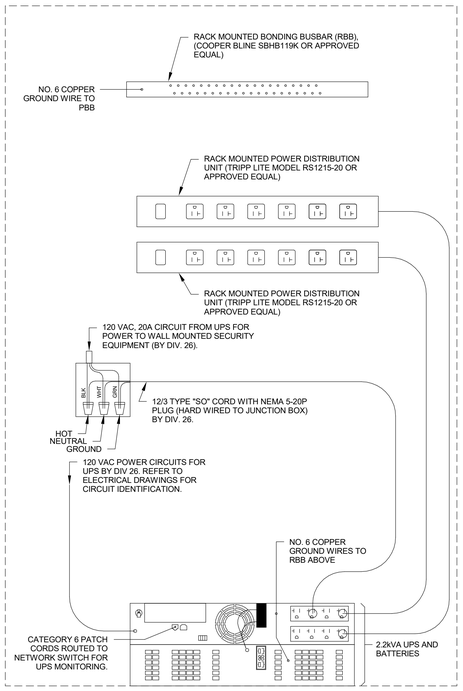
ILM

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

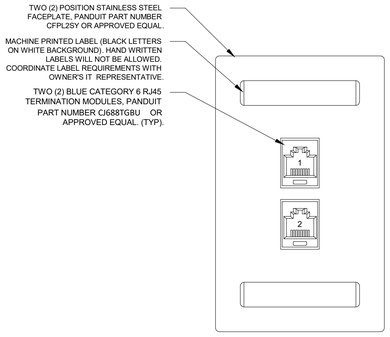
PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405



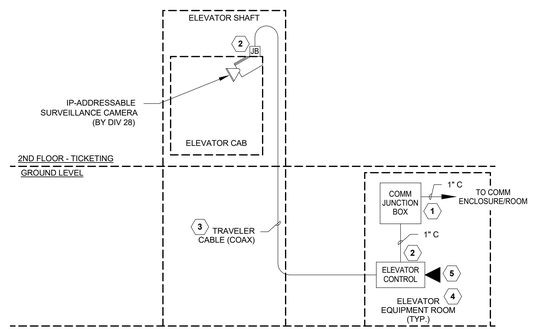
7 TELECOM - PARTIAL RACK ELEVATION
SCALE: NONE



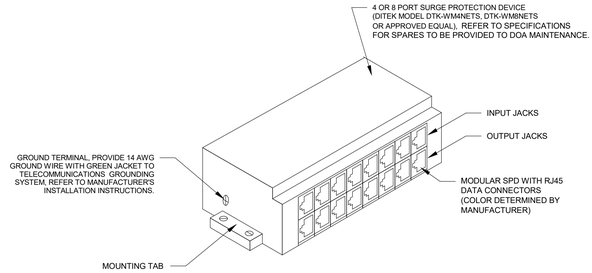
8 AIRPORT NETWORK EQUIPMENT RACK UPS (TYPICAL)
SCALE: NONE



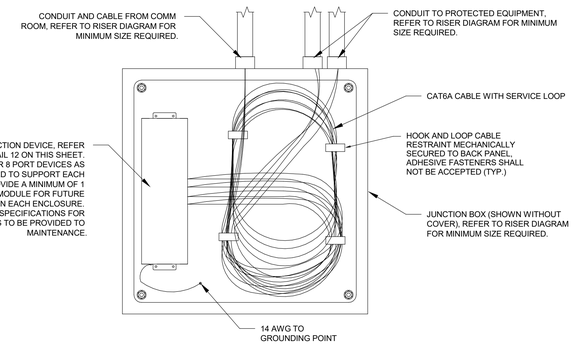
11 TELECOM OUTLET - AV DISPLAY
SCALE: NONE



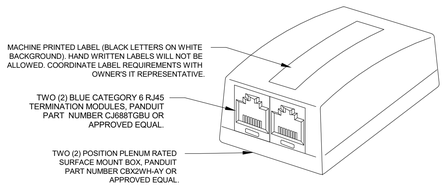
9 ELEVATOR COMMUNICATIONS (TYPICAL)
SCALE: NONE



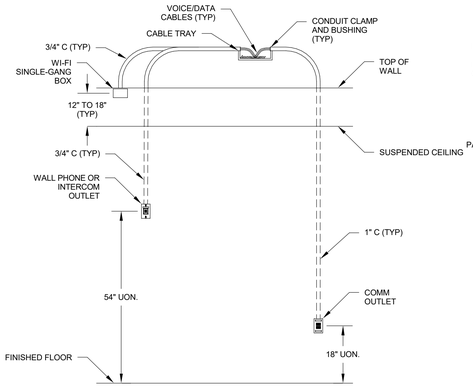
12 TELECOM - SURGE PROTECTION DEVICE
SCALE: NONE



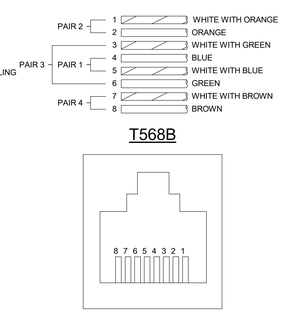
10 TELECOM - SPD ENCLOSURE
SCALE: NONE



6 TELECOM OUTLET - SURFACE MOUNTED
SCALE: NONE

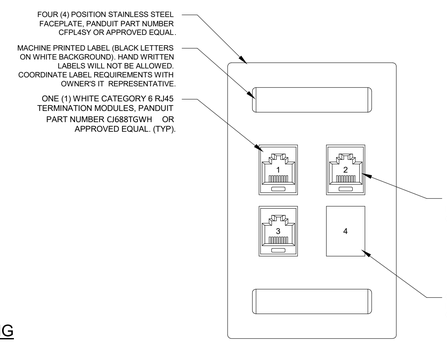


1 TELECOM OUTLET MOUNTING (TYP)
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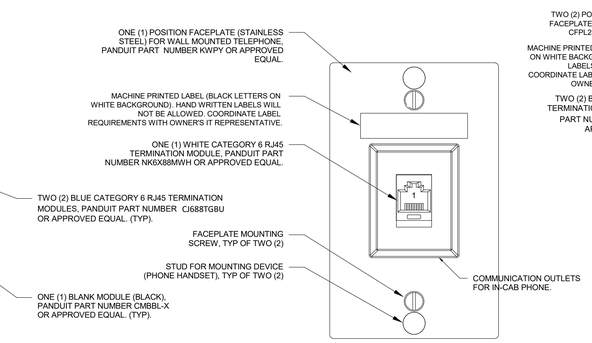


COMMUNICATIONS OUTLET WIRING

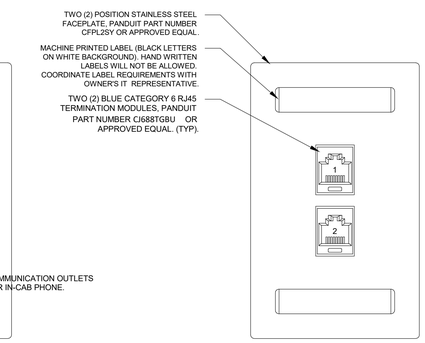
2 TELECOM OUTLET - T568B
SCALE: NONE



3 TELECOM OUTLET - VOICE/DATA
SCALE: NONE



4 TELECOM OUTLET - WALL PHONE
SCALE: NONE



5 TELECOM OUTLET - WI-FI
SCALE: NONE

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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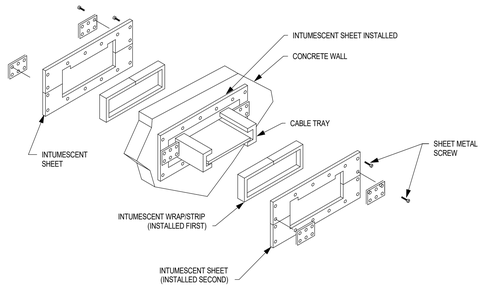
SHEET TITLE:
COMMUNICATIONS DETAILS

SHEET ID:
T501

PROJECT STATUS:
100% BID SET

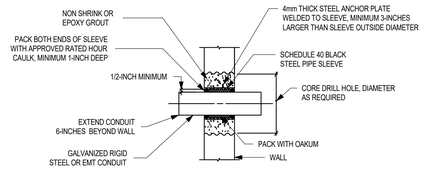
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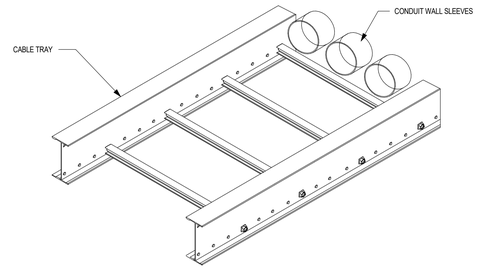
7 CABLE TRAY FIRE STOP DETAIL

SCALE: NONE



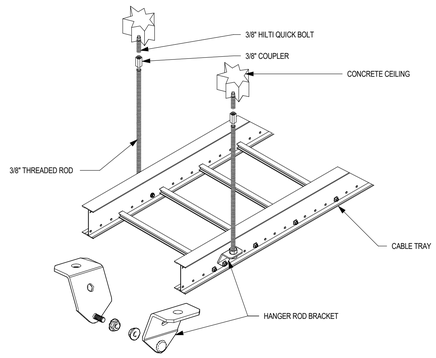
8 CONDUIT PENETRATION AND SLEEVES

SCALE: NONE



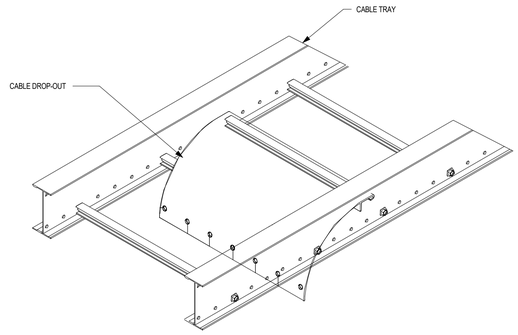
4 TYPICAL WALL SLEEVE PENETRATION

SCALE: NONE



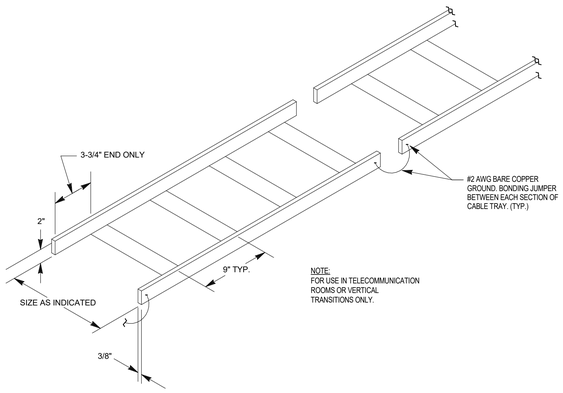
5 TYPICAL CABLE TRAY SUPPORT DETAIL

SCALE: NONE



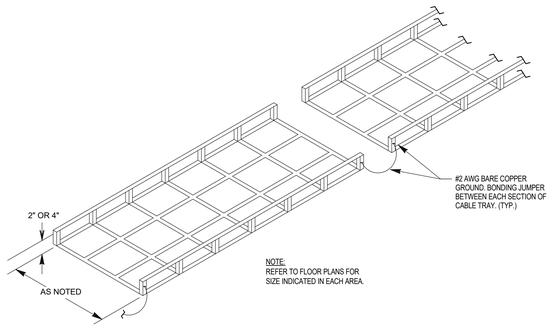
6 CABLE TRAY DROP OUT

SCALE: NONE



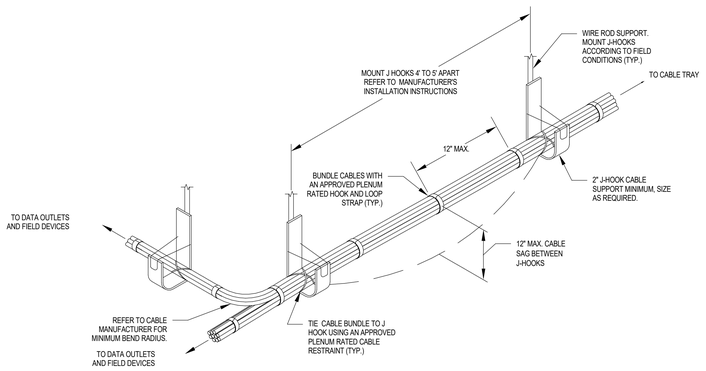
1 CABLE TRAY - LADDER TYPE

SCALE: NONE



2 CABLE TRAY - WIRE BASKET TYPE

SCALE: NONE



3 CABLE TRAY - J-HOOKS

SCALE: NONE

NOTES:

1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT LAYOUTS.

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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 DETAILS

SHEET ID:
T502

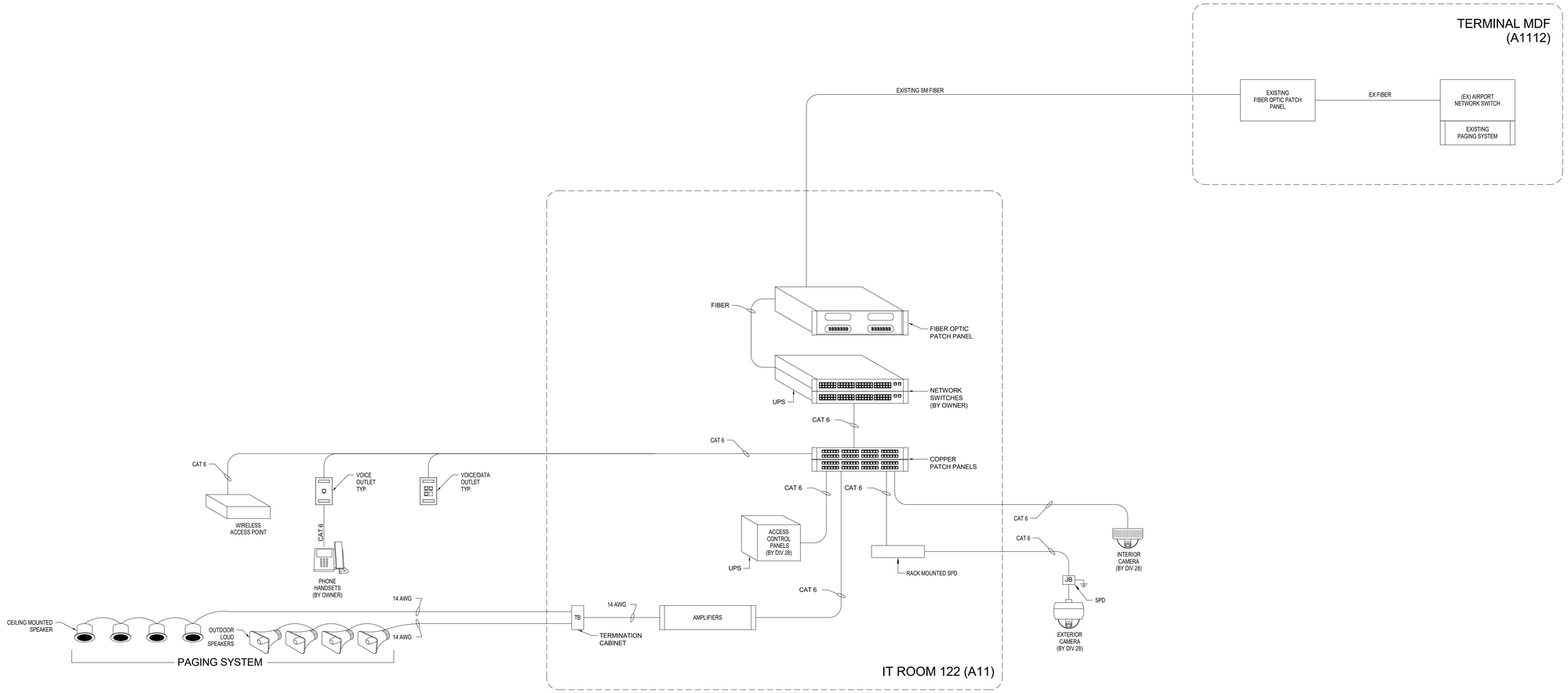
PROJECT STATUS:
100% BID SET

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NOTES:

1. THIS DIAGRAM IS SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED, IT IS INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT LAYOUTS FOR NEW AND EXISTING SYSTEMS.
2. ALL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED INCLUDING ALL SOFTWARE AND LICENSES REQUIRED FOR A COMPLETE AND WORKING SYSTEM AS DESCRIBED IN THE WRITTEN SPECIFICATIONS.



1 COMMUNICATIONS BLOCK DIAGRAM
SCALE: N.T.S.

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ILM

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

PROJECT ADDRESS:
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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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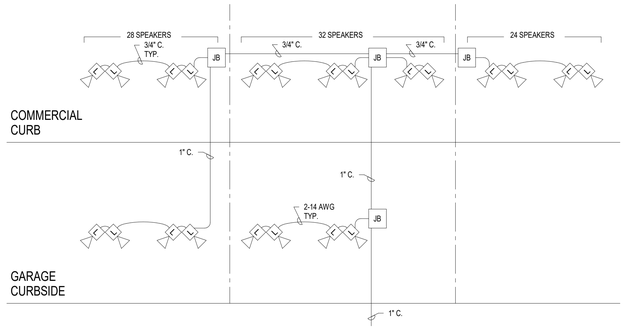
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COMMUNICATIONS BLOCK DIAGRAM

SHEET ID:
T701

PROJECT STATUS:
100% BID SET

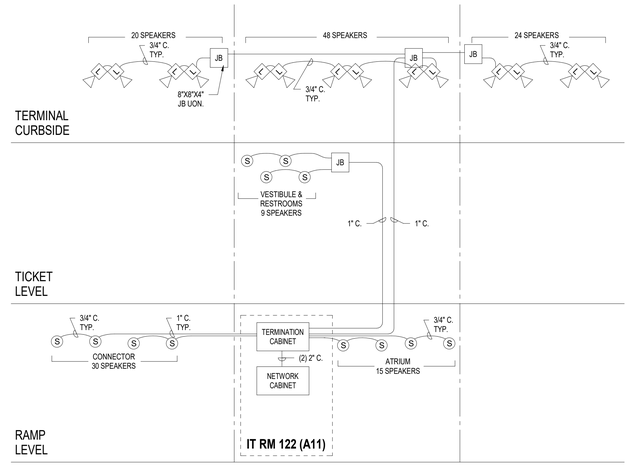
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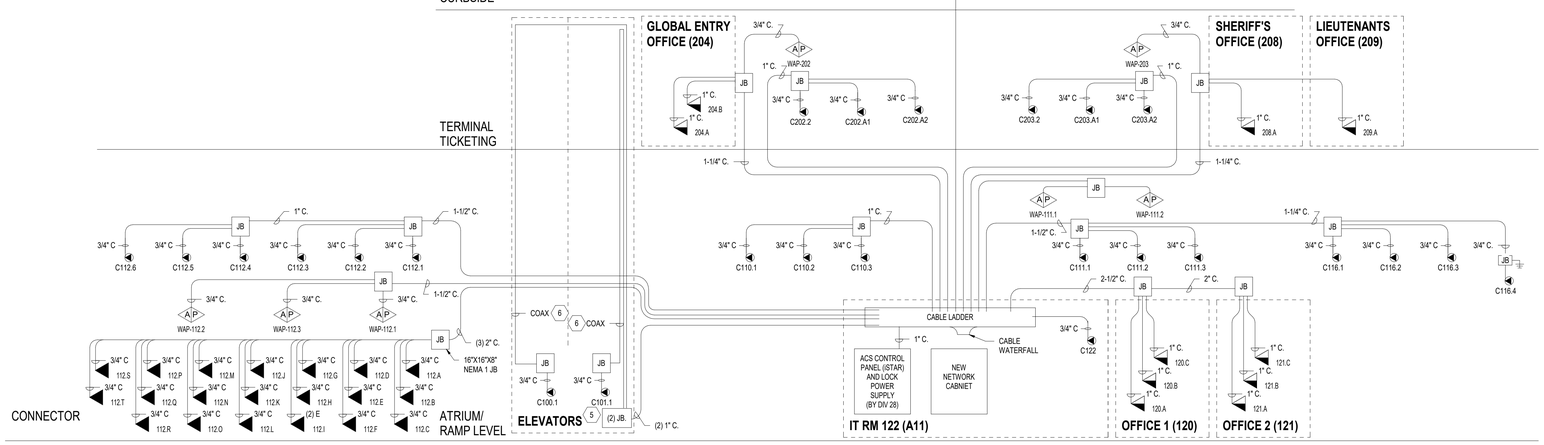
D1 PAGING RISER DIAGRAM - COMMERCIAL CURB

SCALE: N.T.S.



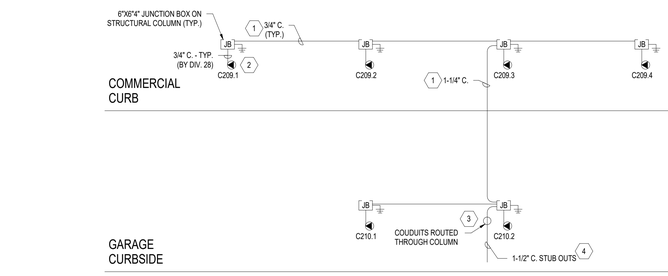
D3 PAGING RISER DIAGRAM - TERMINAL

SCALE: N.T.S.



B1 COMMUNICATIONS RISER DIAGRAM - TERMINAL

SCALE: N.T.S.



A1 COMMUNICATIONS RISER DIAGRAM - COMMERCIAL CURB

SCALE: N.T.S.

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.
5. PROVIDE JUNCTION BOX FOR SPD AND OVER COAX EXTENDER KIT, REFER TO WRITTEN SPECIFICATIONS.
6. ELEVATOR CAB VIDEO SIGNALS SHALL BE TRANSMITTED OVER COAX CABLES WITHIN ELEVATOR TRAVELING CABLE, COORDINATE WITH ELEVATOR INSTALLER.

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Hartranft Lighting Design

ILM

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ILM AIRPORT BOULEVARD AND PARKING IMPROVEMENTS - PHASE II

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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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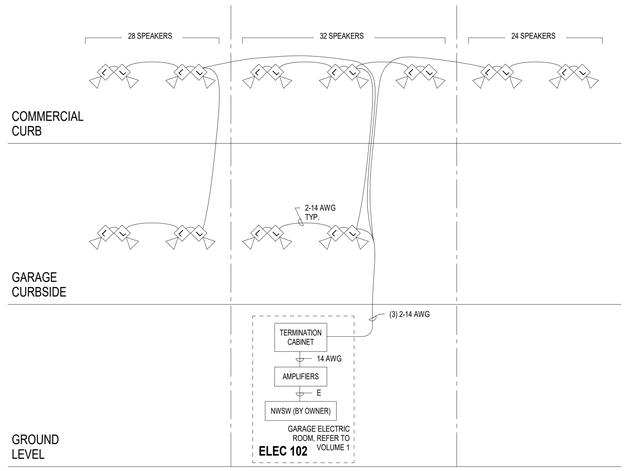
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COMMUNICATIONS RISER DIAGRAM

SHEET ID:
T702

PROJECT STATUS:
100% BID SET

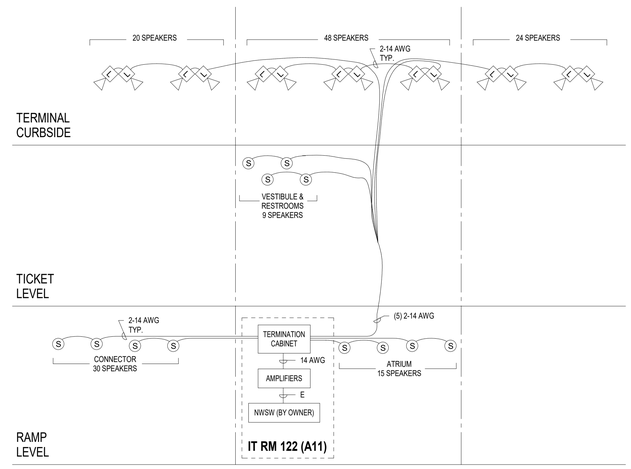
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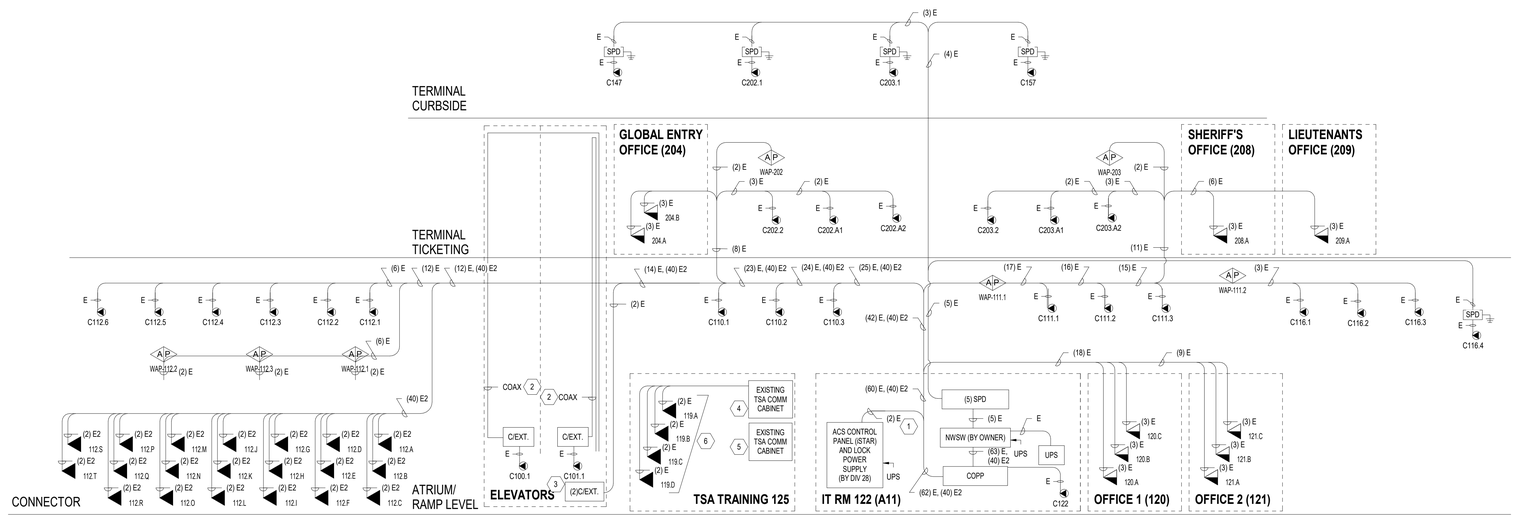
D1 PAGING INTERCONNECT DIAGRAM - COMMERCIAL CURB

SCALE: N.T.S.



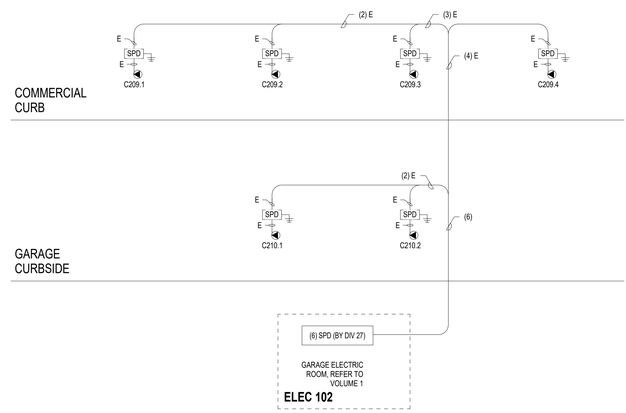
D3 PAGING INTERCONNECT DIAGRAM - TERMINAL

SCALE: N.T.S.



B1 COMMUNICATIONS INTERCONNECT DIAGRAM - TERMINAL

SCALE: N.T.S.



A1 COMMUNICATIONS INTERCONNECT DIAGRAM - COMMERCIAL CURB

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.

KEY NOTES:

1. PROVIDE TWO (2) CAT6 CABLES AND SURFACE MOUNTED DATA OUTLET INSIDE WALL MOUNTED ACS ENCLOSURE, COORDINATE INSTALLATION WITH THE DIV 28 CONTRACTOR.
2. PROVIDE OVER COAX EXTENDER KIT, REFER TO WRITTEN SPECIFICATIONS.
3. ELEVATOR CAB VIDEO SIGNALS SHALL BE TRANSMITTED OVER COAX CABLES WITHIN ELEVATOR TRAVELING CABLE. COORDINATE WITH ELEVATOR INSTALLER.
4. EXISTING TSA COMMUNICATIONS CABINET TO BE RELOCATED IN COORDINATION WITH TSA IT REPRESENTATIVE. COORDINATE POWER REQUIREMENTS WITH DIVISION 26.
5. EXISTING WALL-MOUNTED TSA COMMUNICATIONS CABINET TO BE RELOCATED IN COORDINATION WITH TSA IT REPRESENTATIVE. COORDINATE POWER REQUIREMENTS WITH DIVISION 26.
6. RETERMINATE FOUR(4) - TWO(2) DATA OUTLETS CONNECTED TO TSA COMMUNICATIONS CABINET. COORDINATE OUTLET LOCATIONS WITH TSA IT REPRESENTATIVE AND COLLOCATE WITH DUPLEX RECEPTACLES PROVIDED BY DIVISION 26. COORDINATE WORK WITH THE ELECTRICAL CONTRACTOR.

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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 INTERCONNECT DIAGRAM

SHEET ID:
T703

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

SHEET NUMBER	SHEET NAME
TY001	SECURITY GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
TY001-4	SECURITY GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS - ALT 2
TY101	OVERALL SECURITY RAMP LEVEL PLAN
TY103	PARTIAL SECURITY RAMP LEVEL PLAN - AREA B
TY104	PARTIAL SECURITY RAMP LEVEL PLAN - AREA C
TY105	PARTIAL SECURITY RAMP LEVEL PLAN - CONNECTOR
TY106	SECURITY TICKET LEVEL FLOOR PLAN
TY106-4	OVERALL SECURITY TICKET LEVEL FLOOR PLAN - ALT 4
TY107	SECURITY PARTIAL TICKET LEVEL FLOOR PLAN - AREA A
TY108	SECURITY PARTIAL TICKET LEVEL FLOOR PLAN - AREA B
TY108-4	PARTIAL SECURITY TICKET LEVEL FLOOR PLAN - AREA B - ALT 4
TY109	SECURITY PARTIAL TICKET LEVEL FLOOR PLAN - AREA C
TY501	SECURITY DETAILS
TY502	CAMERA MOUNTING DETAILS
TY701	SECURITY BLOCK DIAGRAM
TY702	SECURITY RISER AND INTERCONNECT DIAGRAMS

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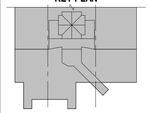
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ILM

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

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SEAL:

SHEET TITLE:
SECURITY GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

SHEET ID:
TY001

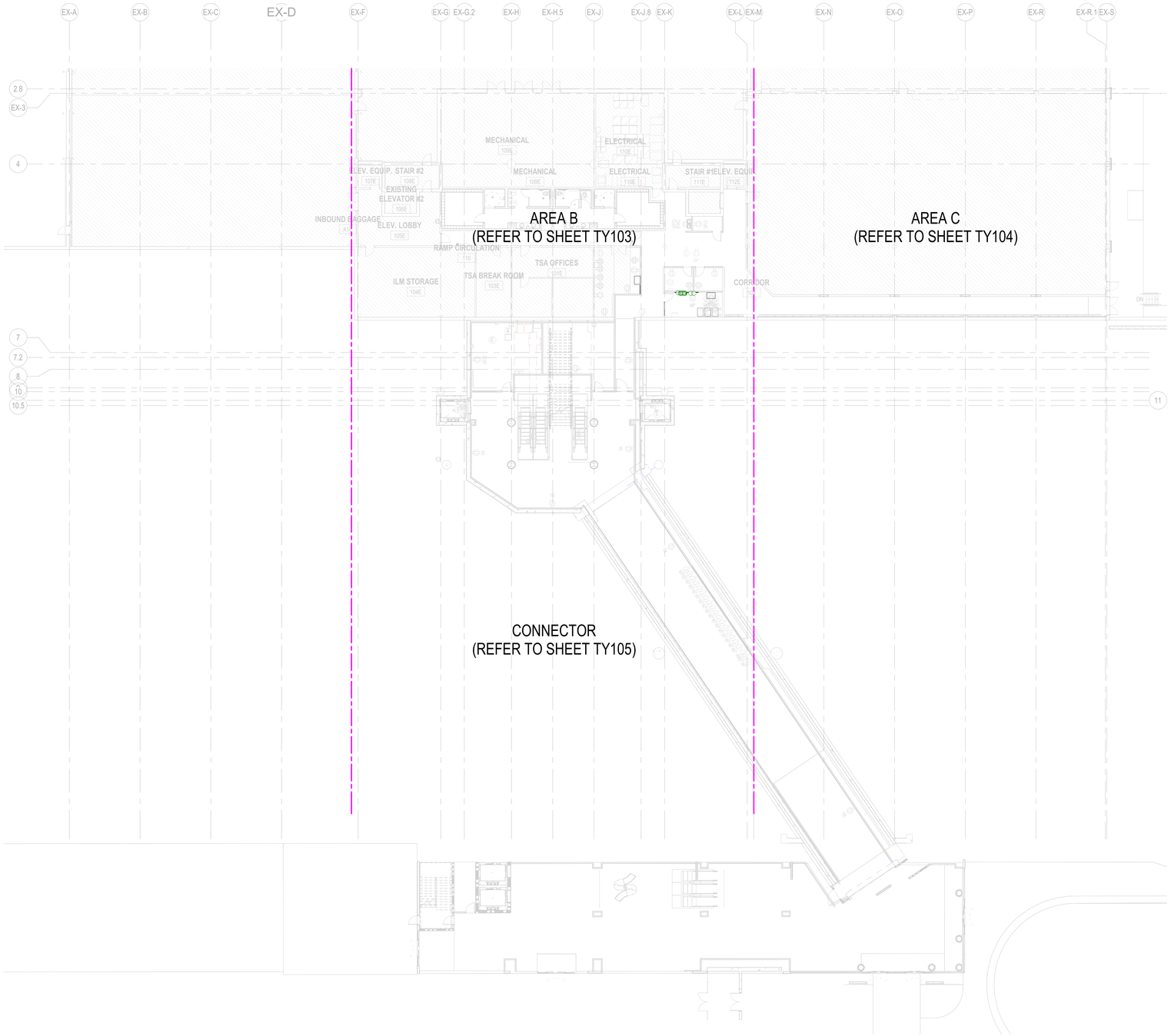
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SENSITIVE SECURITY INFORMATION



PN
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1 OVERALL SECURITY RAMP LEVEL PLAN

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

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16 0 16 32

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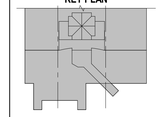
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ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
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KEY PLAN



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NO.	DESCRIPTION	DATE

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SEAL:

SHEET TITLE:
OVERALL SECURITY RAMP LEVEL PLAN

SHEET ID:
TY101

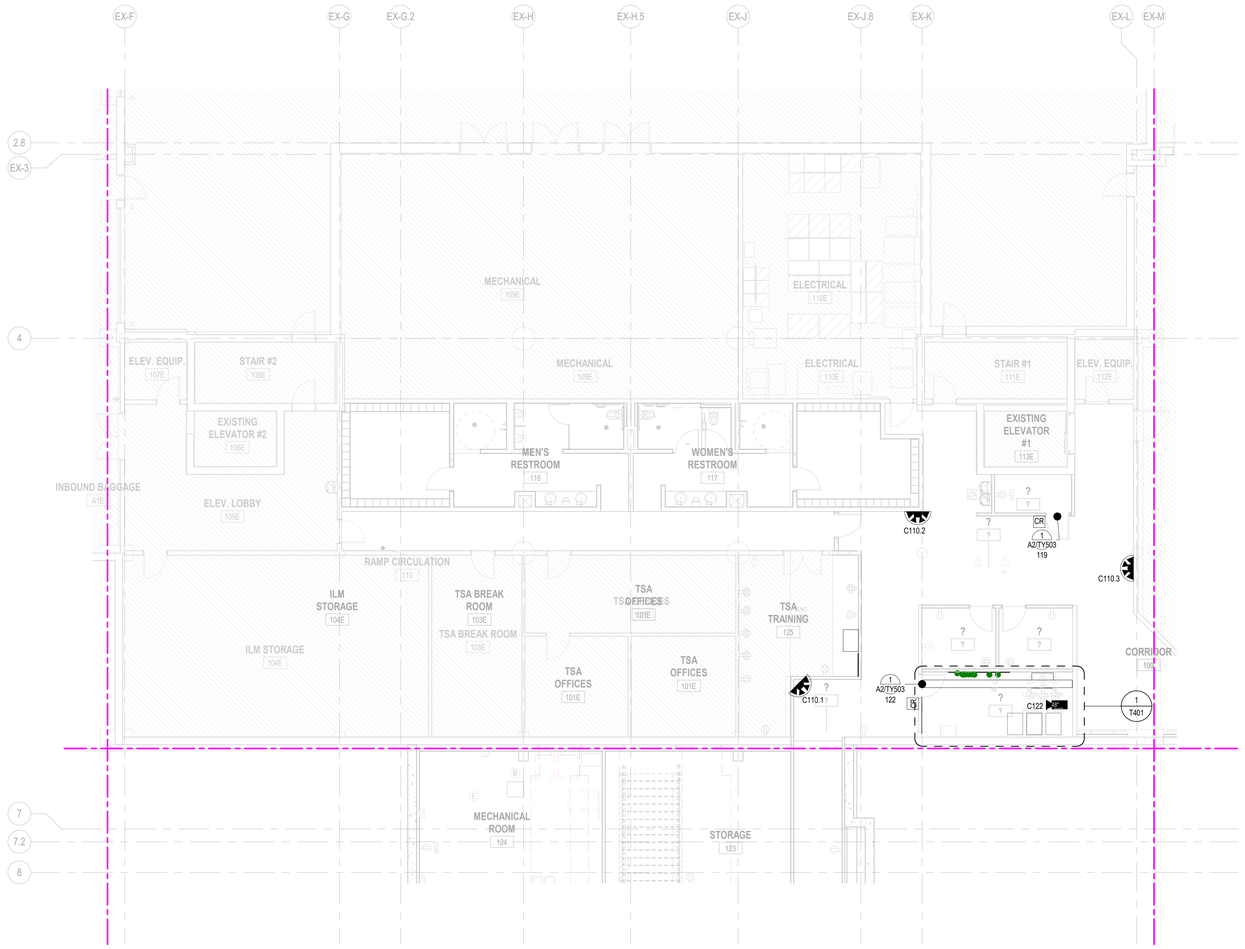
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SENSITIVE SECURITY INFORMATION

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.



PN

N

1 PARTIAL SECURITY RAMP LEVEL PLAN - AREA B

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

8 0 8 16

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

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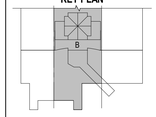
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ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
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KEY PLAN



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PARTIAL SECURITY RAMP LEVEL PLAN - AREA B

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TY103

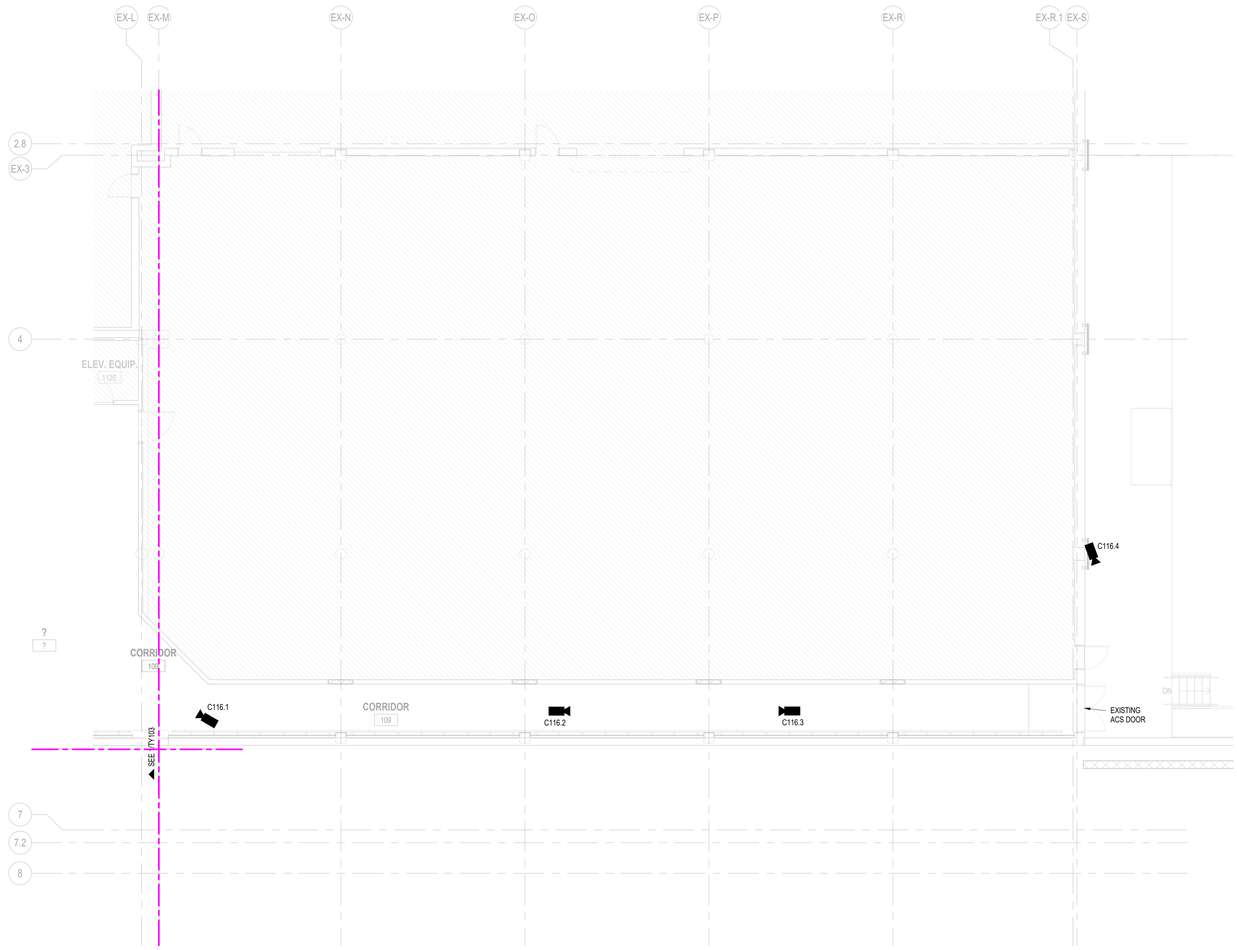
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SENSITIVE SECURITY INFORMATION

NOTES:

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4. APPROVED UL DEVICES SHALL BE USED TO SEAL PENETRATIONS THROUGH FIRE RATED WALLS.



1 PARTIAL SECURITY RAMP LEVEL PLAN - AREA C

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

PN

N

8 0 8 16

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

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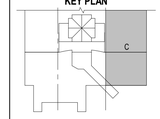
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ILM

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

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KEY PLAN



REVISIONS

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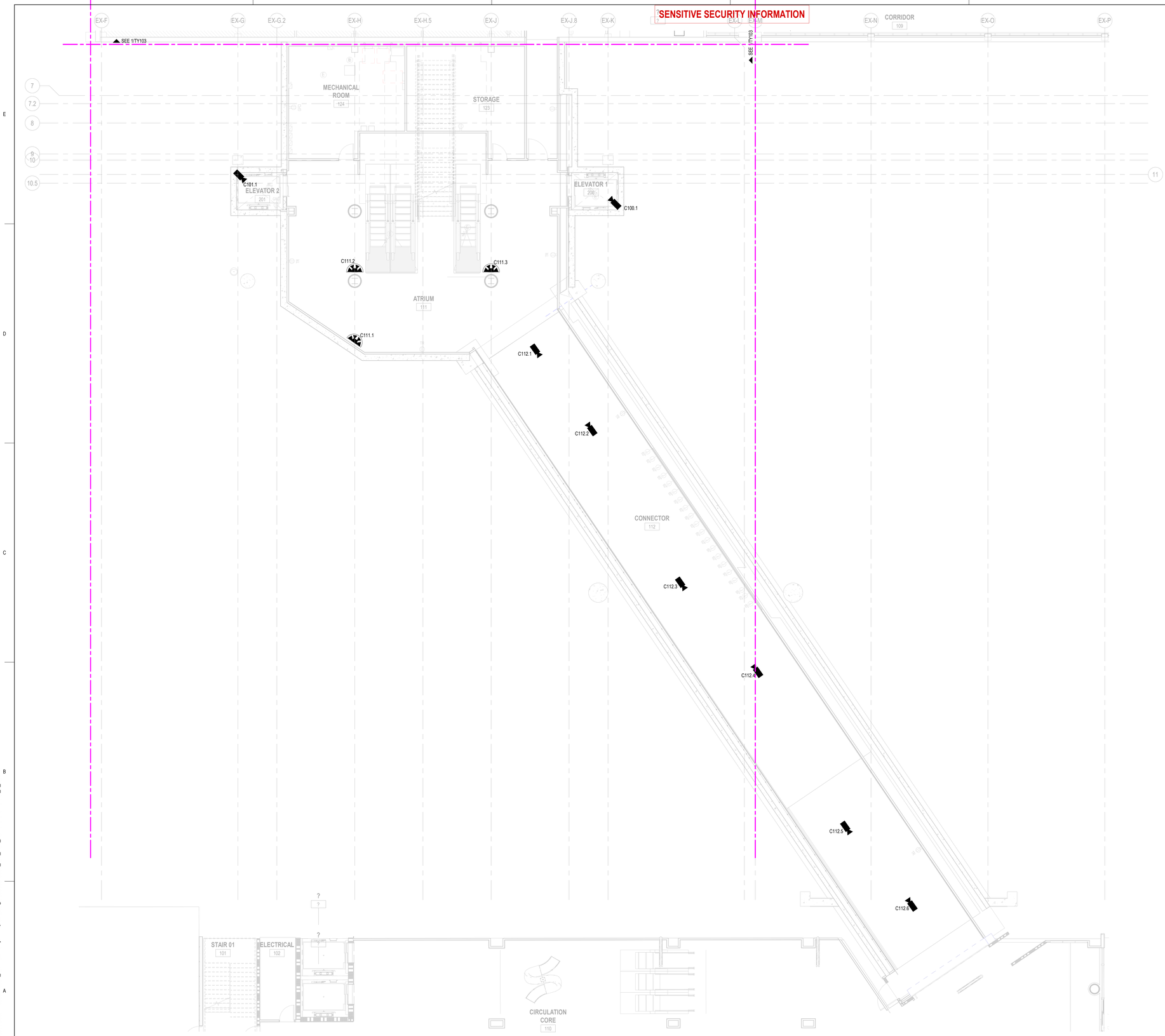
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SENSITIVE SECURITY INFORMATION



PARENT SECURITY RAMP LEVEL PLAN - CONNECTOR

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

PN

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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:
2003-0070-006
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SEAL:

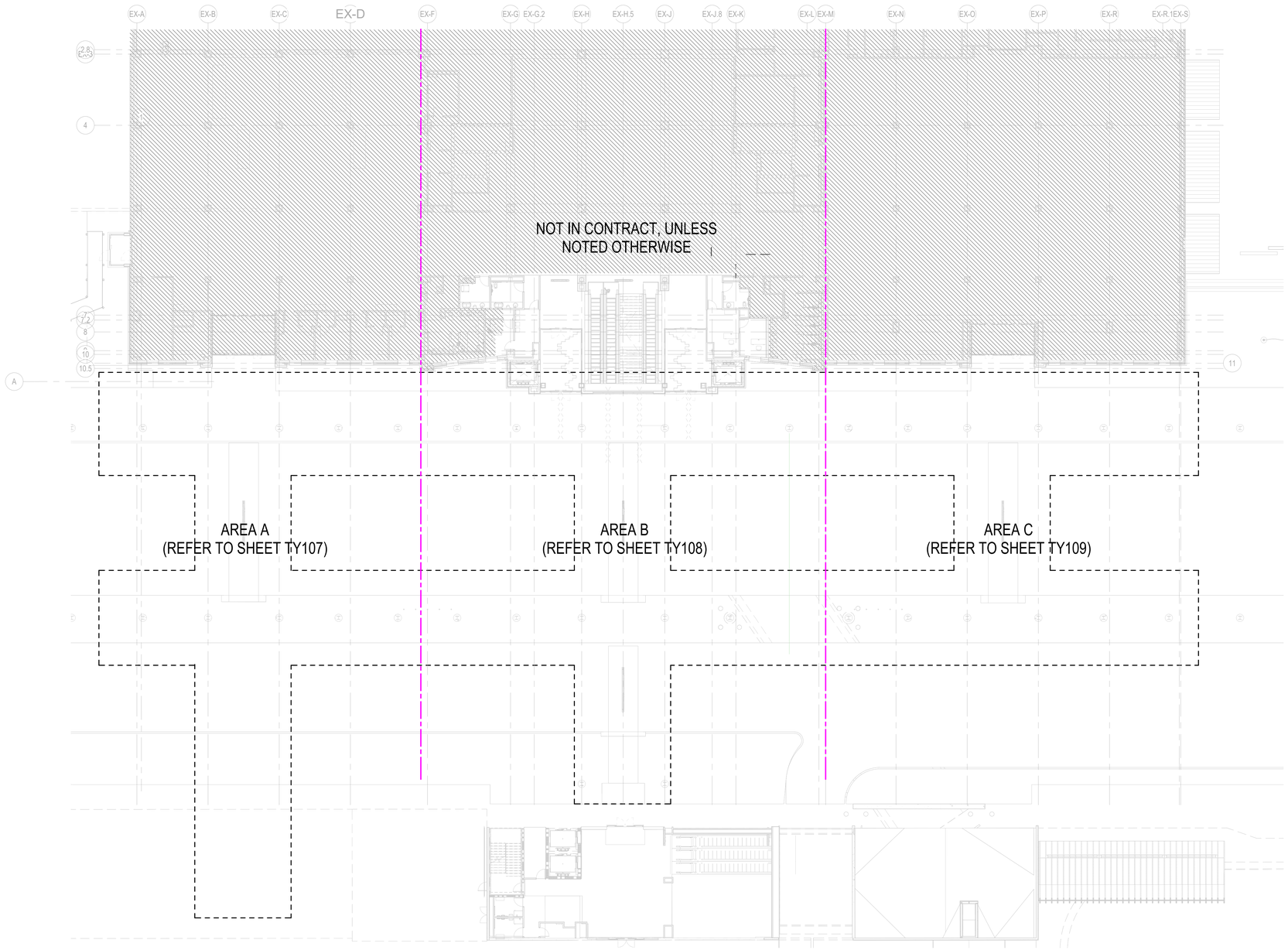
SHEET TITLE:
PARTIAL SECURITY RAMP LEVEL PLAN - CONNECTOR

SHEET ID:
TY105

PROJECT STATUS:
100% BID SET

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SENSITIVE SECURITY INFORMATION



PN
N

1 OVERALL SECURITY FLOOR PLAN - TICKET LEVEL

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

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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:	JAP
DRAWN BY:	RJF
DESIGNED BY:	RJF

PROJECT NUMBER:
2003-0070-006

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SEAL:

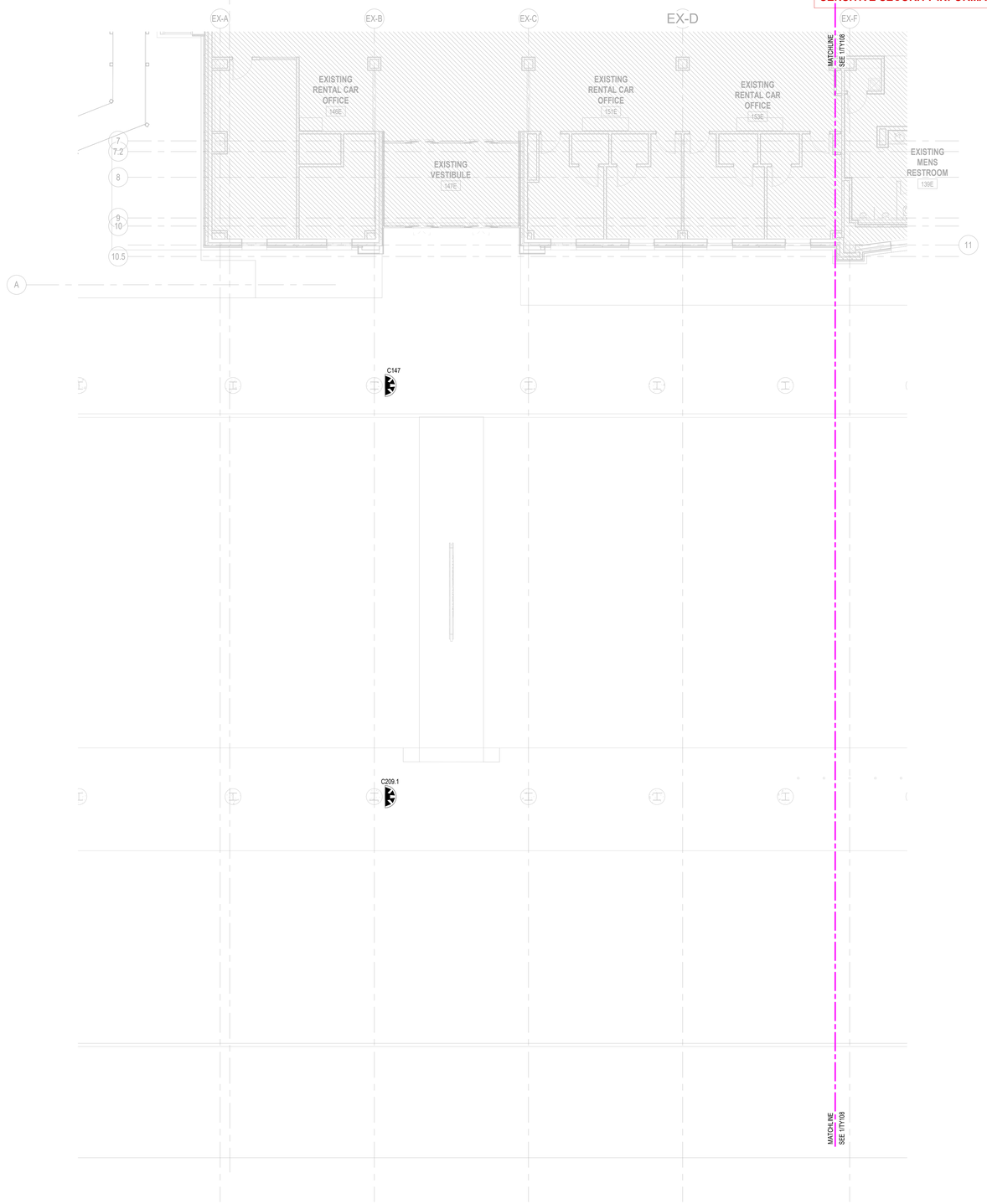
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SECURITY TICKET LEVEL FLOOR PLAN

SHEET ID:
TY106

PROJECT STATUS:
100% BID SET

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SENSITIVE SECURITY INFORMATION



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.

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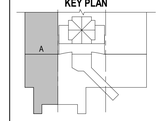
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
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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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SEAL:

SHEET TITLE:
SECURITY PARTIAL TICKET LEVEL FLOOR PLAN - AREA A

SHEET ID:
TY107

PROJECT STATUS:
100% BID SET

PN

1 SECURITY FLOOR PLAN - TICKET LEVEL - Area A

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

8 0 8 16

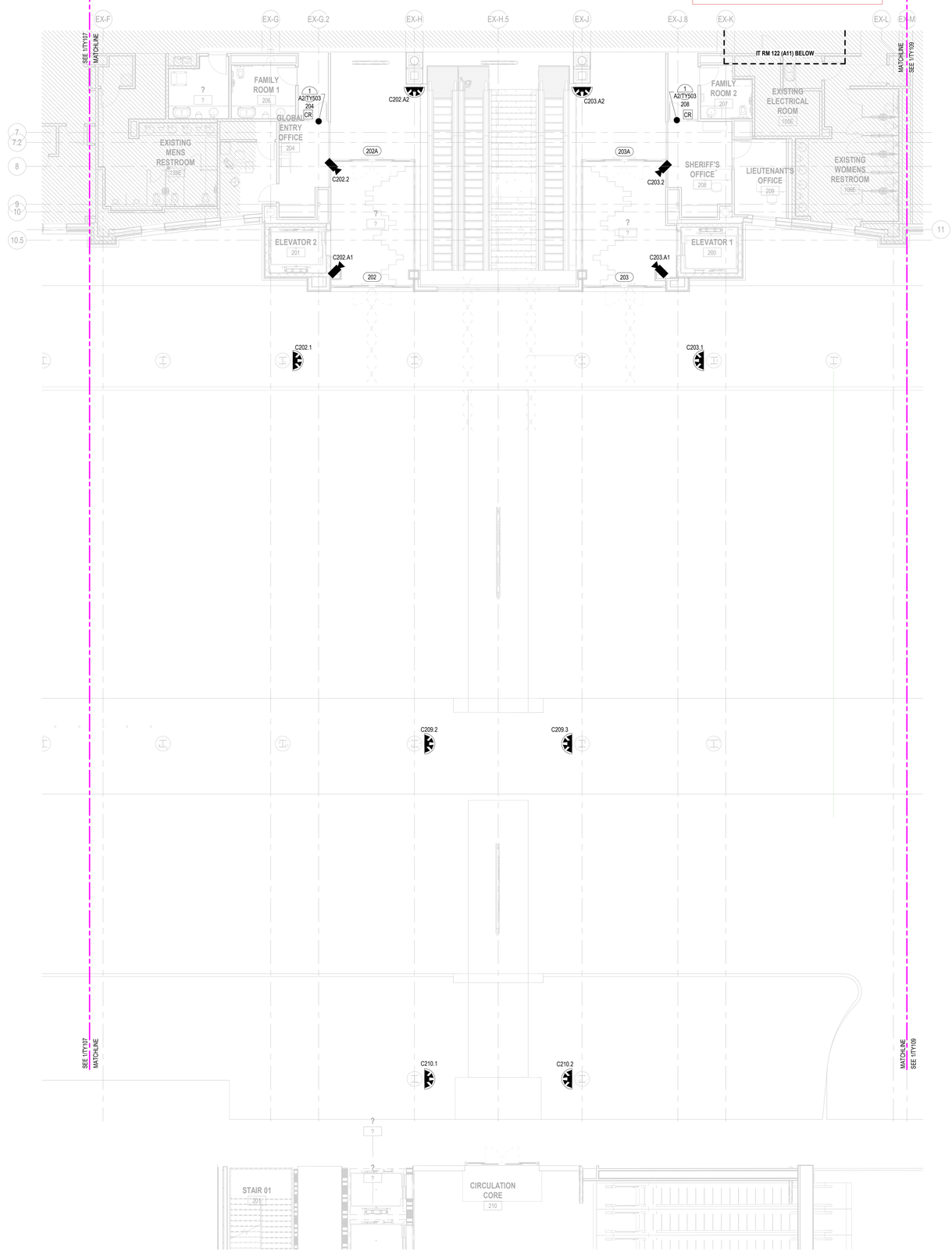
SCALE: 1/8" = 1'-0"

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SENSITIVE SECURITY INFORMATION



1 SECURITY FLOOR PLAN - TICKET LEVEL - AREA B

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

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4. APPROVED UL DEVICES SHALL BE USED TO SEAL PENETRATIONS THROUGH FIRE RATED WALLS.

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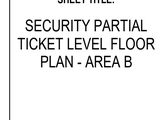
Hartranft Lighting Design

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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SEAL:

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

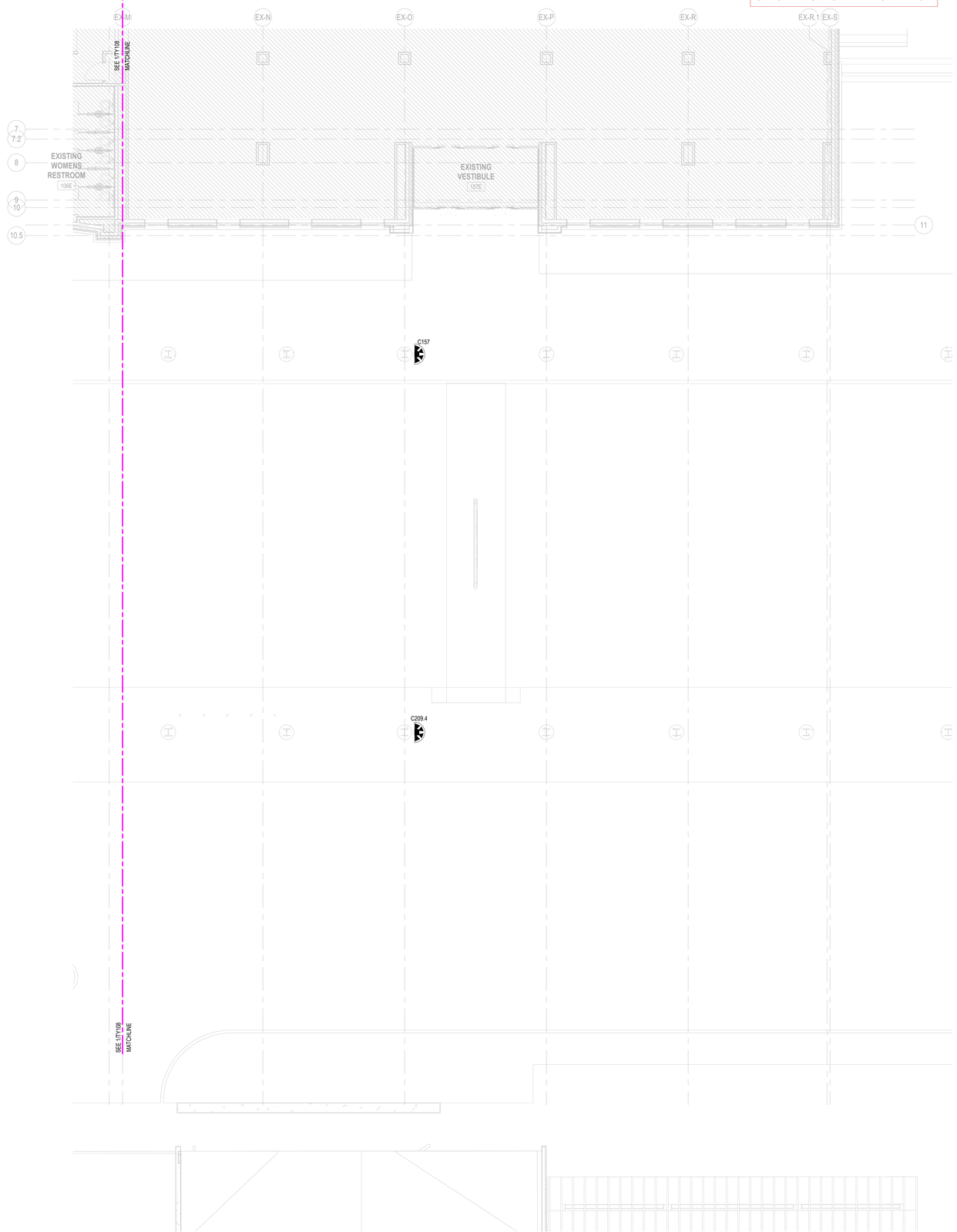
SHEET ID:
TY108

PROJECT STATUS:
100% BID SET

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

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SENSITIVE SECURITY INFORMATION



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.

PN

1 SECURITY FLOOR PLAN - TICKET LEVEL - Area C

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

8 0 8 16

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

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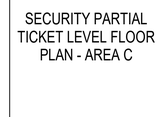
Hartranft Lighting Design

ILM

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

PROJECT ADDRESS:
1740 AIRPORT BLVD.
WILMINGTON, NC 28405

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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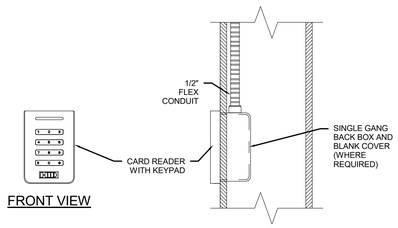
SEAL:

SHEET TITLE:
SECURITY PARTIAL TICKET LEVEL FLOOR PLAN - AREA C

SHEET ID:
TY109

PROJECT STATUS:
100% BID SET

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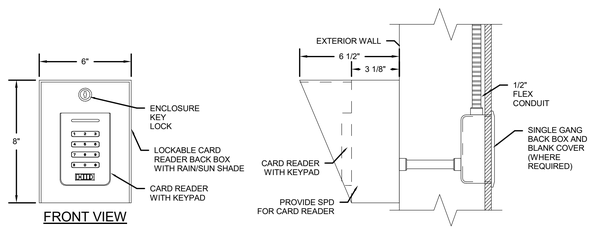


FRONT VIEW

SIDE VIEW

3 CARD READER (INTERIOR WALL)

SCALE: NONE

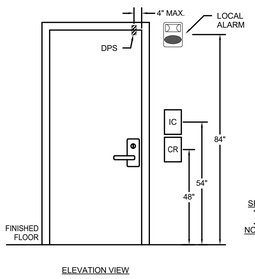


FRONT VIEW

SIDE VIEW

3 CARD READER (EXTERIOR WALL)

SCALE: NONE

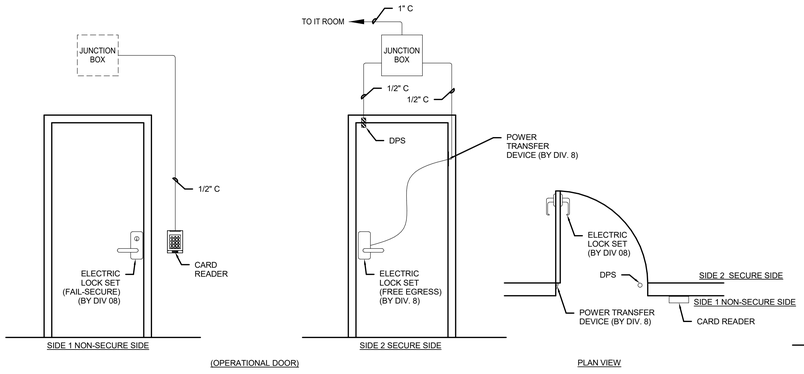


ELEVATION VIEW

PLAN VIEW

4 TYPICAL MOUNTING HEIGHTS

SCALE: NONE

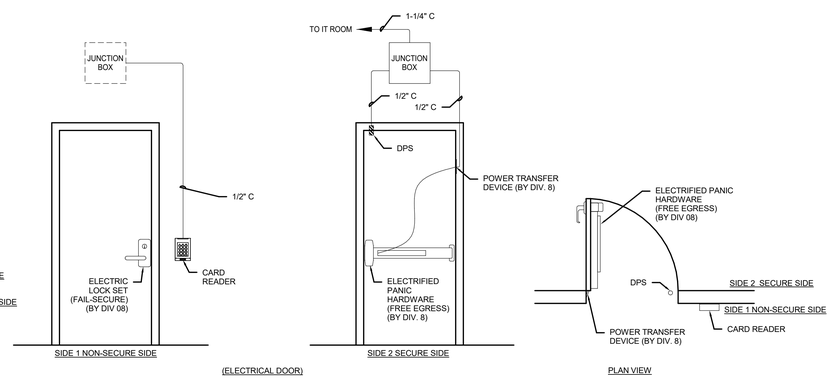


SIDE 1 NON-SECURE SIDE

SIDE 2 SECURE SIDE

(OPERATIONAL DOOR)

PLAN VIEW



SIDE 1 NON-SECURE SIDE

SIDE 2 SECURE SIDE

(ELECTRICAL DOOR)

PLAN VIEW

SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE ELECTRIC LOCK WITH BUILT-IN REX. THE LOCK SHALL FAIL SECURE.
2. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED) THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. THE DOOR SHALL ALLOW FREE EGRESS AT ANYTIME, A REQUEST TO EXIT SIGNAL FROM A BUILT-IN SWITCH IN THE HANDLE SHALL SHUNT THE DPS FOR A (USER DEFINED) PERIOD OF TIME.
4. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES THE DPS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE DPS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM TO THE ALARM MONITORING WORKSTATION.
5. THE ALARM SHALL BE RESET FROM THE CARD READER OR THE MONITORING STATION.

1 SECURITY DOOR - TYPE 1

SCALE: NONE

SEQUENCE OF OPERATIONS

1. THE DOOR SHALL BE SECURED VIA THE ELECTRIC LOCK WITH BUILT-IN REX. THE LOCK SHALL FAIL SECURE.
2. TO ENTER, UPON A VALID CARD READ (AND PIN CODE ENTRY WHERE REQUIRED) THE ACS SHALL SIGNAL THE LOCK TO OPEN AND THE DPS SHALL BE SHUNTED FOR A (USER DEFINED) PERIOD OF TIME.
3. THE DOOR SHALL ALLOW FREE EGRESS AT ANYTIME, A REQUEST TO EXIT SIGNAL FROM A BUILT-IN SWITCH IN THE HANDLE SHALL SHUNT THE DPS FOR A (USER DEFINED) PERIOD OF TIME.
4. AFTER A VALID ENTRY, WHEN THE UNLOCK TIME EXPIRES THE DPS SHALL BE ACTIVATED. UNAUTHORIZED OPERATION OF THE DOOR SENSED BY THE DPS SHALL ACTIVATE A DOOR FORCED ALARM OR A DOOR HELD OPEN ALARM IF THE DOOR IS NOT PROPERLY CLOSED. THE ACS SHALL SEND AN ALARM TO THE ALARM MONITORING WORKSTATION.
5. THE ALARM SHALL BE RESET FROM THE CARD READER OR THE MONITORING STATION.

2 SECURITY DOOR - TYPE 2

SCALE: NONE

NOTES:

1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT MOUNTING AND GENERAL CONDITIONS.
2. PROVIDE MOUNTING HARDWARE NECESSARY TO SECURE BACK BOX TO WALL. CONTRACTOR SHALL SUBMIT PROPOSED MOUNTING FOR OWNER APPROVAL.
3. CONTRACTOR SHALL SIZE BACK BOX TO ACCOMMODATE PROPOSED EQUIPMENT AND SUBMIT FOR APPROVAL.
4. REFER TO THE SECURITY DOOR SCHEDULE FOR INFORMATION SPECIFIC TO EACH DOOR AND THE HARDWARE REQUIRED.
5. REFER TO THE CAMERA SCHEDULE FOR CAMERA CUE UP ASSOCIATED WITH SPECIFIC SECURITY DEVICES.
6. CONTRACTOR SHALL COORDINATE DPS SHUNT TIMES WITH AIRPORT SECURITY. UNLESS OTHERWISE NOTED, THE DPS SHUNT TIME SHALL EXPIRE WHEN THE DPS SENSES THAT THE DOOR IS CLOSED.
7. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE THE FINAL SEQUENCE OF OPERATIONS FOR EACH DOOR WITH AIRPORT SECURITY AND SUBMIT TO THE AHJ FOR APPROVAL.
8. REFER TO FLOOR PLANS FOR ACTUAL DOOR SWING AND ORIENTATION OF HARDWARE.
9. ALL DOOR LOCKING HARDWARE AND EGRESS HARDWARE PROVIDED BY DIVISION 08.

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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:
SECURITY DETAILS

SHEET ID:
TY501

PROJECT STATUS:
100% BID SET

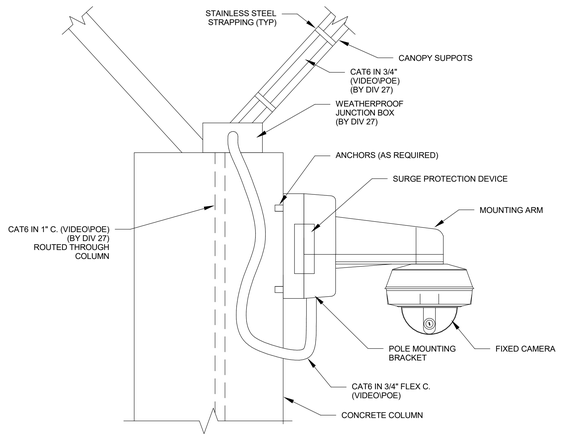
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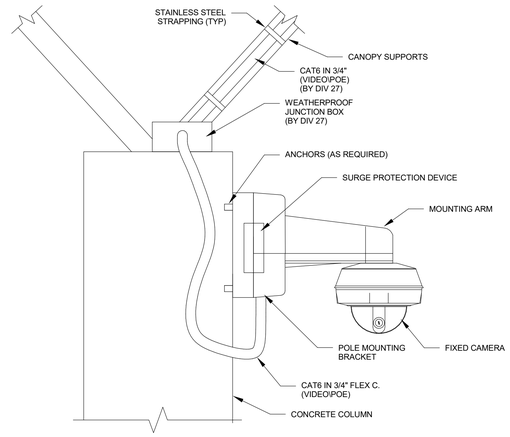
SENSITIVE SECURITY INFORMATION

NOTES:

1. THESE DETAILS ARE SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. THEY ARE INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT MOUNTING AND GENERAL CONDITIONS.
2. REFER TO THE SECURITY CAMERA SCHEDULE FOR ADDITIONAL INFORMATION SPECIFIC TO EACH CAMERA LOCATION INCLUDING THE AUTOMATIC CUE UP ASSOCIATED WITH SPECIFIC SECURITY EVENTS.

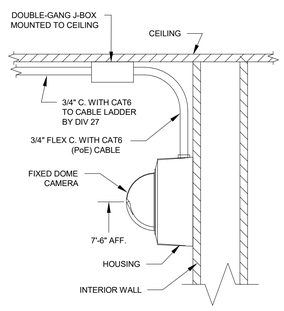


9 FIXED DOME - EXTERIOR COLUMN MOUNT
SCALE: N.T.S.

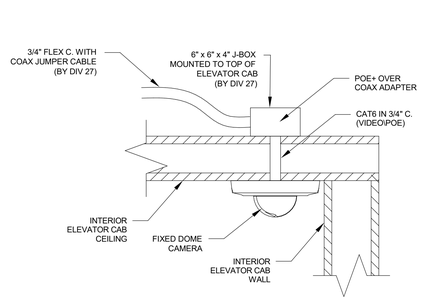


7 FIXED DOME - EXTERIOR COLUMN MOUNT
SCALE: N.T.S.

8 FIXED DOME - INTERIOR CEILING MOUNT
SCALE: N.T.S.



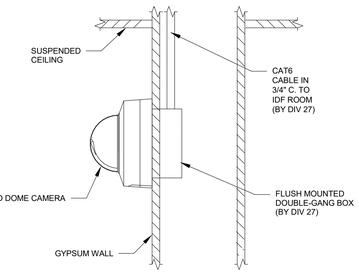
5 FIXED DOME - INTERIOR WALL
SCALE: NONE



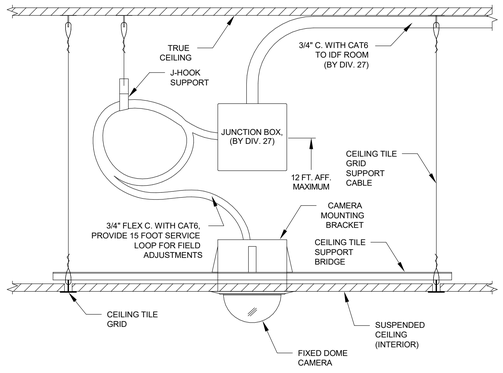
6 ELEVATOR SURVEILLANCE CAMERA (TYP.)
SCALE: NONE

7 FIXED DOME - EXTERIOR COLUMN MOUNT
SCALE: N.T.S.

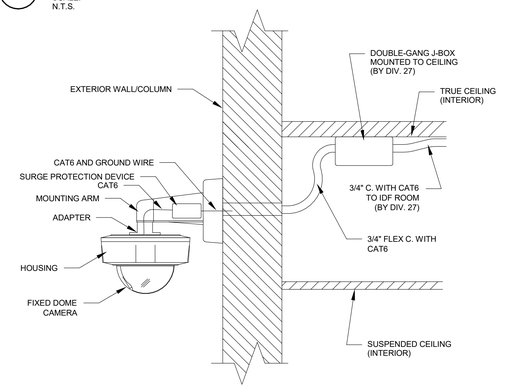
8 FIXED DOME - INTERIOR CEILING MOUNT
SCALE: N.T.S.



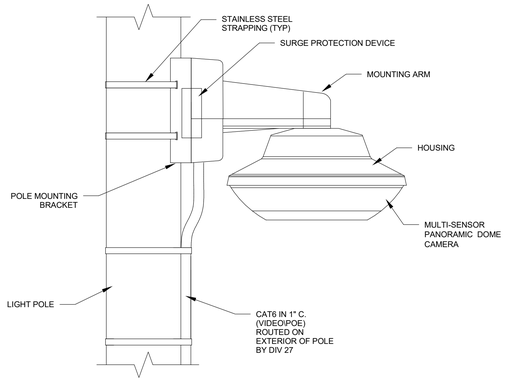
1 FIXED DOME - INTERIOR WALL
SCALE: NONE



2 FIXED DOME - SUSPENDED CEILING
SCALE: NONE



3 FIXED DOME - EXTERIOR WALL
SCALE: NONE



4 FIXED DOME - EXTERIOR POLE
SCALE: N.T.S.

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Hartranft Lighting Design

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

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:
CAMERA MOUNTING DETAILS

SHEET ID:
TY502

PROJECT STATUS:
100% BID SET

3/14/2025 8:55:46 PM Autodesk Docs://1003007004_ILM TO4 Rdwy Ind Improv Design/2003007006_ILM_TO6_Terminal and Tunnel_T_R24.rvt

NOTES:

1. DOOR AND CAMERA NUMBERS LISTED HEREIN INDICATE DOOR AND CAMERA DESIGNATIONS AS SHOWN ON THE SECURITY FLOOR PLANS. FINAL DOOR AND CAMERA NUMBERS FOR SYSTEM CONFIGURATION AND PROGRAMMING TO BE DETERMINED BY AIRPORT SECURITY.
2. REFER TO SHEET TY502 FOR TYPICAL CAMERA MOUNTING DETAILS.
3. FINAL CAMERA LOCATIONS, FIELDS OF VIEW, MOUNTING HARDWARE, AND HOUSINGS TO BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. ALL CAMERA PRESET POSITIONS AND AUTOMATIC CUE-UP UPON DESIGNATED EVENTS TO BE REVIEWED AND APPROVED BY AIRPORT SECURITY DURING SYSTEM PROGRAMMING PRIOR TO FINAL ACCEPTANCE.
5. FINAL CAMERA MODELS AND LENS FOCAL LENGTHS TO BE FIELD VERIFIED BY THE CONTRACTOR AND REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. REFER TO SECURITY DOOR DETAILS ON SHEET TY501 FOR SECURITY DEVICES REQUIRED FOR EACH DOOR. REFER TO DIVISION 08 "DOOR HARDWARE" SPECIFICATION FOR LOCK, POWER TRANSFER AND DOOR HARDWARE REQUIREMENTS.
7. CONTRACTOR SHALL ANTICIPATE THE SEQUENCE OF OPERATION FOR EACH DOOR CONFIGURATION GIVEN THE REQUIRED DEVICES AND HARDWARE LISTED TO ENSURE PROPER OPERATION FOR PASSAGE THROUGH EACH INDIVIDUAL DOOR. ANY CONFLICTS IN DOOR HARDWARE, BOTH ELECTRONIC AND MECHANICAL, THAT MAY RESULT IN IMPROPER OPERATION OF ACCESS CONTROLLED DOORS MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGNER.
8. ALL DOORS RECEIVING SECURITY DEVICES SHALL BE PREPARED WITH BOXES MOUNTED INSIDE THE DOORFRAME WITH CONDUIT TO SECURITY JUNCTION BOX ABOVE THE DOOR (WITHIN 10 FT).
9. ALL DEVICES SHALL BE MOUNTED AND WIRED PER MANUFACTURER'S RECOMMENDATIONS.

KEYED NOTES: ⬡

1. INDICATED DOORS AND CAMERAS AND THE ASSOCIATED CABLE, CONDUIT, MOUNTING HARDWARE ARE TO BE OMITTED FROM ALTERNATE 2. REFER TO RISER AND INTERCONNECT ON SHEET T702-4, T703-4.

ABBREVIATIONS:

CR	CARD READER
DPS	DOOR POSITION SWITCH
EL	ELECTRIFIED LOCK (BY DIV 08)
LA	LOCAL ALARM (HORN/STROBE)
PH	PANIC HARDWARE (BY DIV 08)
PT	POWER TRANSFER (BY DIV 08)
REX	REQUEST-TO-EXIT

SECURITY DOOR SCHEDULE

	DOOR NUMBER	SHEET #	LOCATION	CR	EL	PH	DPS	PT	DOOR TYPE	MOUNTING DETAIL	IDF	SEC NOTES
1	119	TY103	UTILITY ROOM	1	1	-	1	1	1	A2/TY503	IT 122 (A11)	PROVIDE PULL SIDE CR. PROVIDE PUSH SIDE DPS, PULL SIDE EL W/ BUILT-IN REX AND PT BY DIV. 08.
	122	TY103	IT ROOM	1	1	-	1	1	1	A2/TY503	IT 122 (A11)	PROVIDE PUSH SIDE CR. PROVIDE PULL SIDE DPS, PUSH SIDE EL W/ BUILT-IN REX AND PT BY DIV. 08.
	204	TY108	GLOBAL ENTRY OFFICE	1	1	-	1	1	1	A2/TY503	IT 122 (A11)	PROVIDE PUSH SIDE CR. PROVIDE PULL SIDE DPS, PUSH SIDE EL W/ BUILT-IN REX AND PT BY DIV. 08.
	208	TY108	SHERIFF'S OFFICE	1	1	-	1	1	1	A2/TY503	IT 122 (A11)	PROVIDE PUSH SIDE CR. PROVIDE PULL SIDE DPS, PUSH SIDE EL W/ BUILT-IN REX AND PT BY DIV. 08.

SURVEILLANCE CAMERA SCHEDULE

	CAMERA NO.	MANUFACTURER & MODEL	DESCRIPTION	LENS	SHEET NO.	LOCATION	VMS ALARM ACTIVATION	MOUNTING HEIGHT	MOUNT	HOUSING	MOUNTING DETAIL	EQUIPMENT ROOM
	C100.1	AXIS M3086-V	4 MP FIXED	2.4 mm	TY105	ELEVATOR 1 CAB	-	APPROX. 8'-0"	CEILING	INTERIOR	6/TY502	IT ROOM 122 (A11)
	C101.1	AXIS M3086-V	4 MP FIXED	2.4 mm	TY105	ELEVATOR 2 CAB	-	APPROX. 8'-0"	CEILING	INTERIOR	6/TY502	IT ROOM 122 (A11)
	C110.1	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY103	RAMP CIRCULATION		9'-0"	CEILING	INTERIOR	7/TY502	IT ROOM 122 (A11)
	C110.2	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY103	RAMP CIRCULATION	-	9'-0"	CEILING	INTERIOR	7/TY502	IT ROOM 122 (A11)
	C110.3	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY103	RAMP CIRCULATION	-	9'-0"	CEILING	INTERIOR	7/TY502	IT ROOM 122 (A11)
	C111.1	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY105	ATRIUM	DPS/DOOR 122 AND DOOR 111	10'-4"	CEILING	INTERIOR	7/TY502	IT ROOM 122 (A11)
	C111.2	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY105	ATRIUM	-	10'-4"	CEILING	INTERIOR	7/TY502	IT ROOM 122 (A11)
	C111.3	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY105	ATRIUM	-	10'-4"	CEILING	INTERIOR	7/TY502	IT ROOM 122 (A11)
	C112.1	AXIS M3086-V	4 MP FIXED	2.4 mm	TY105	CONNECTOR	-	10'-4"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
1	C112.2	AXIS M3086-V	4 MP FIXED	2.4 mm	TY105	CONNECTOR	-	10'-4"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C112.3	AXIS M3086-V	4 MP FIXED	2.4 mm	TY105	CONNECTOR	-	10'-4"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C112.4	AXIS M3086-V	4 MP FIXED	2.4 mm	TY105	CONNECTOR	-	10'-4"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C112.5	AXIS M3086-V	4 MP FIXED	2.4 mm	TY105	CONNECTOR	-	10'-4"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C112.6	AXIS M3086-V	4 MP FIXED	2.4 mm	TY105	CONNECTOR	-	10'-4"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C116.1	AXIS M3086-V	4 MP FIXED	2.4 mm	TY104	CORRIDOR	-	8'-0"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C116.2	AXIS M3086-V	4 MP FIXED	2.4 mm	TY104	CORRIDOR	-	9'-0"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C116.3	AXIS M3086-V	4 MP FIXED	2.4 mm	TY104	CORRIDOR	-	9'-0"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C116.4	AXIS-P3268-LVE	8 MP FIXED	4.3 - 8.6 mm	TY104	LOADING DOCK	-	9'-0"	WALL	EXTERIOR	3/TY502	IT ROOM 122 (A11)
	C122	AXIS M3086-V	4 MP FIXED	2.4 mm	TY103	IT ROOM 122 (A11)	DPS/DOOR 122	10'-0"	CEILING	INTERIOR	2/TY502	IT ROOM 122 (A11)
	C147	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY107	EXISTING VESTIBULE	-	10'-6"	COLUMN	EXTERIOR	7/TY502	IT ROOM 122 (A11)
	C157	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY109	EXISTING VESTIBULE	-	10'-6"	COLUMN	EXTERIOR	7/TY502	IT ROOM 122 (A11)
	C202.1	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY108	VESTIBULE	-	10'-6"	COLUMN	EXTERIOR	7/TY502	IT ROOM 122 (A11)
	C202.2	AXIS P3286-LV	8 MP FIXED	4.3 - 8.6 mm	TY108	VESTIBULE	-	10'-0"	CEILING	INTERIOR	8/TY502	IT ROOM 122 (A11)
	C202.A1	AXIS P3268-LV	8 MP FIXED	4.3 - 8.6 mm	TY108	VESTIBULE	-	9'-0	WALL	INTERIOR	1/TY502	IT ROOM 122 (A11)
	C202.A2	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY108	VESTIBULE	-	10'-6"	WALL	INTERIOR	1/TY502	IT ROOM 122 (A11)
	C203.1	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY108	VESTIBULE	-	10'-6"	COLUMN	EXTERIOR	7/TY502	IT ROOM 122 (A11)
	C203.2	AXIS P3286-LV	8 MP FIXED	4.3 - 8.6 mm	TY108	VESTIBULE	-	10'-0"	CEILING	INTERIOR	8/TY502	IT ROOM 122 (A11)
	C203.A1	AXIS P3268-LV	8 MP FIXED	4.3 - 8.6 mm	TY108	VESTIBULE	-	9'-0"	WALL	INTERIOR	1/TY502	IT ROOM 122 (A11)
	C203.A2	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY108	VESTIBULE	-	10'-6"	WALL	INTERIOR	1/TY502	IT ROOM 122 (A11)
	C209.1	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY107	COMMERCIAL CURB	-	10'-6"	COLUMN	EXTERIOR	7/TY502	GARAGE IDF
	C209.2	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY108	COMMERCIAL CURB	-	10'-6"	COLUMN	EXTERIOR	7/TY502	GARAGE IDF
	C209.3	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY108	COMMERCIAL CURB	-	10'-6"	COLUMN	EXTERIOR	7/TY502	GARAGE IDF
	C209.4	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY109	COMMERCIAL CURB	-	10'-6"	COLUMN	EXTERIOR	7/TY502	GARAGE IDF
	C210.1	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY108	GARAGE CURB	-	10'-6"	COLUMN	EXTERIOR	7/TY502	GARAGE IDF
	C210.2	AXIS Q3819-PVE	14 MP - (4) 5 MP FIXED	(4) 5.89 mm	TY108	GARAGE CURB	-	10'-6"	COLUMN	EXTERIOR	7/TY502	GARAGE IDF

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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:
SECURITY DOOR AND CAMERA SCHEDULES

SHEET ID:
TY601

PROJECT STATUS:
100% BID SET

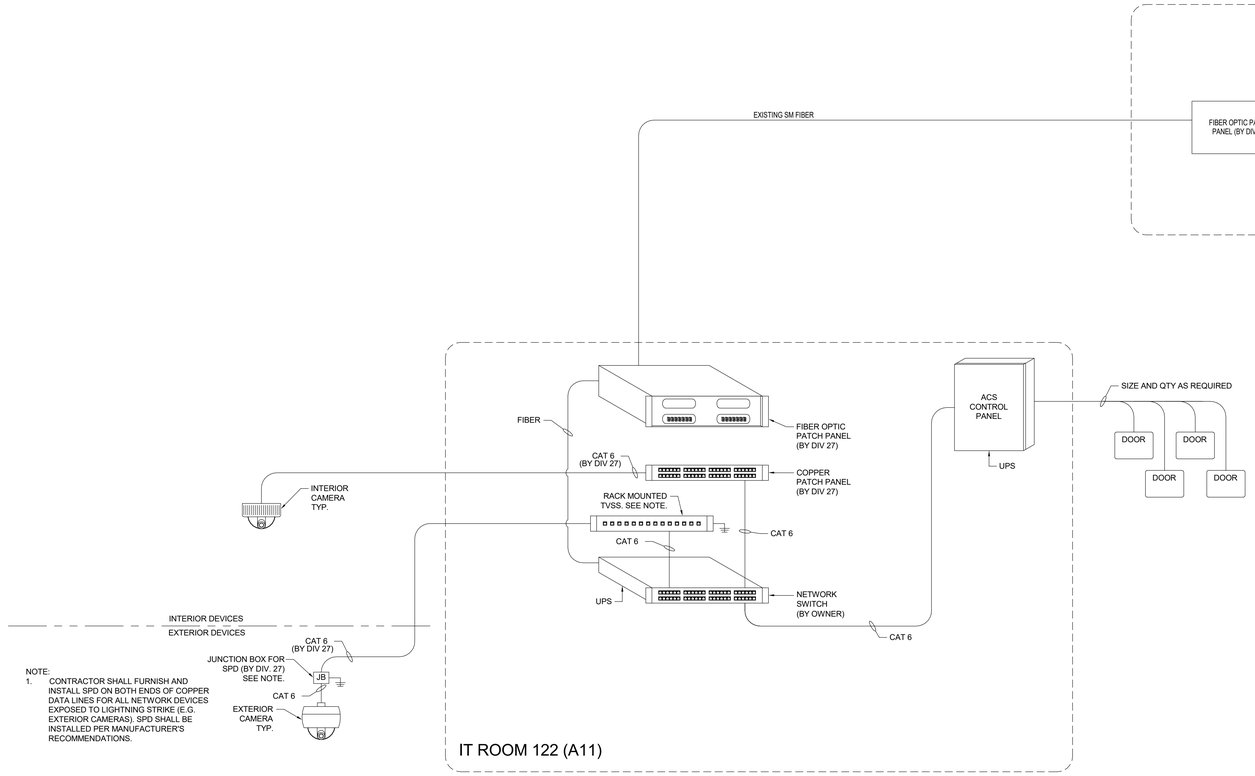
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SENSITIVE SECURITY INFORMATION

NOTES:

1. THIS DIAGRAM IS SCHEMATIC IN NATURE AND MAY NOT SHOW ALL EQUIPMENT OR CONNECTIONS REQUIRED. IT IS INTENDED TO ILLUSTRATE TYPICAL EQUIPMENT LAYOUTS FOR NEW AND EXISTING SYSTEMS.
2. ALL EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE INDICATED INCLUDING ALL SOFTWARE AND LICENSES REQUIRED FOR A COMPLETE AND WORKING SYSTEM AS DESCRIBED IN THE WRITTEN SPECIFICATIONS.



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WILMINGTON, NC 28405

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

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SEAL:

SHEET TITLE:
SECURITY BLOCK DIAGRAM

SHEET ID:
TY701

PROJECT STATUS:
100% BID SET

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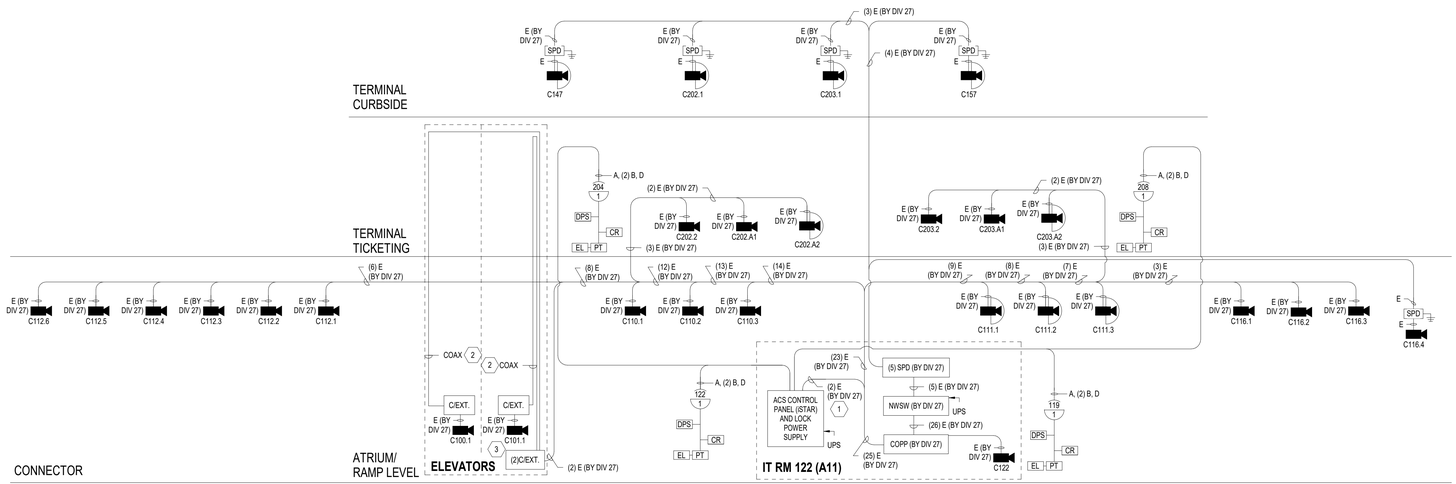
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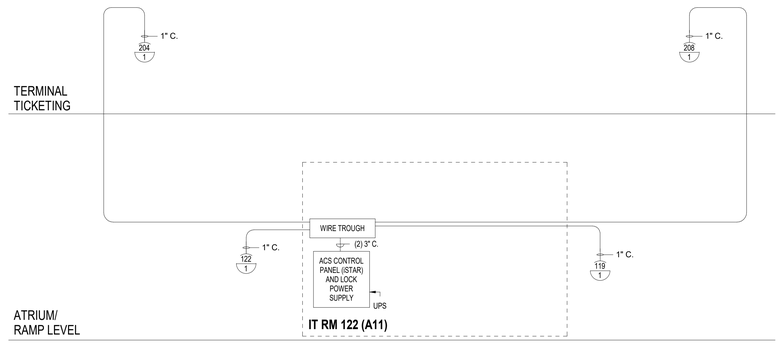
NOTES:

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 A COMPLETE AND WORKING SYSTEM AS DESCRIBED IN THE WRITTEN SPECIFICATIONS.
2. ALL EQUIPMENT, RACEWAY AND CABLE 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. ALL DOORS RECEIVING SECURITY DEVICES SHALL BE PREPARED WITH BOXES MOUNTED INSIDE THE DOOR FRAME.
5. REFER TO COMMUNICATION DRAWINGS FOR SECURITY CAMERA CONDUIT AND CABLE (PROVIDED BY THE DIVISION 27 CONTRACTOR).
6. REFER TO COMMUNICATION DRAWINGS FOR NETWORK SWITCHES PROVIDED BY THE DIVISION 27 CONTRACTOR.



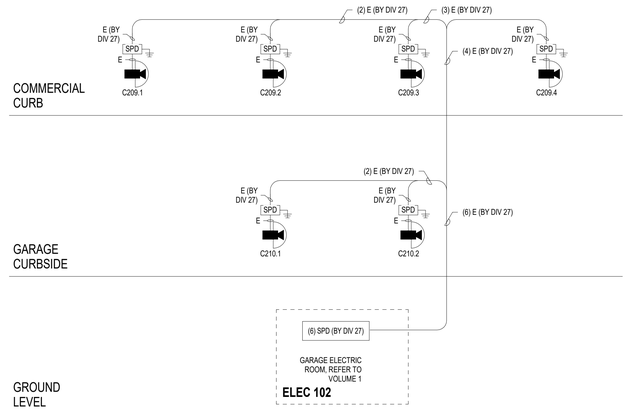
C1 SECURITY INTERCONNECT DIAGRAM - TERMINAL

SCALE: N.T.S.



A1 SECURITY RISER DIAGRAM - TERMINAL

SCALE: N.T.S.



A4 SECURITY INTERCONNECT DIAGRAM - COMMERCIAL CURB

SCALE: N.T.S.

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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

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

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SEAL:

SHEET TITLE:
SECURITY RISER AND INTERCONNECT DIAGRAMS

SHEET ID:
TY702

PROJECT STATUS:
100% BID SET

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TYPE	DESCRIPTION	CONSTRUCTION	LENGTH	HEIGHT	QUANTITY	DETAIL
J1-1	GARAGE LEVEL 2 COLUMN MOUNTED SIGN (LONG SIDE)	ALUMINUM PANEL W/ TYPE VIII ENGINEERING GRADE REFLECTIVE VINYL GRAPHICS	2'-11"	3'-8"	28	
J1-2	GARAGE LEVEL 2 COLUMN MOUNTED SIGN (SHORT SIDE)	ALUMINUM PANEL W/ TYPE VIII ENGINEERING GRADE REFLECTIVE VINYL GRAPHICS	2'-11"	3'-8"	28	
J2	LIGHT POLE MOUNTED CUBE SIGN (GARAGE L3)	FABRICATED ALUMINUM CABINET W/ TYPE VIII ENGINEERING GRADE REFLECTIVE VINYL GRAPHICS MOUNTED TO LIGHT POLE	3'-0"	3'-8"	9	
L1	GARAGE OVERHEAD DIRECTIONAL SIGN	FABRICATED ALUMINUM CABINET W / TYPE VIII ENGINEERING GRADE REFLECTIVE VINYL GRAPHICS	9'-0"	1'-1"	7	
L2	GARAGE OVERHEAD DIRECTIONAL SIGN	FABRICATED ALUMINUM CABINET W / TYPE VIII ENGINEERING GRADE REFLECTIVE VINYL GRAPHICS	6'-0"	1'-1"	12	
M	CLEARANCE BAR	SUSPENDED PVC TUBE W/TPE VIII ENGINEERING GRADE REFLECTIVE VINYL GRAPHICS	12'-0"	8"	2	
N1	PEDESTRIAN OVERHEAD DIRECITONAL SIGN (1-LINE)	ALUMINUM FRAMED SIGN, WHITE ACRYLIC SIGN PANELS W/ VINYL GRAPHICS	6'-2"	1'-4"	7	
N2	PEDESTRIAN OVERHEAD DIRECITONAL SIGN (2-LINE)	ALUMINUM FRAMED SIGN, WHITE ACRYLIC SIGN PANELS W/ VINYL GRAPHICS	6'-2"	1'-11"	11	
N2-2	PEDESTRIAN OVERHEAD DIRECITONAL SIGN (2-LINE)	ALUMINUM FRAMED SIGN, WHITE ACRYLIC SIGN PANELS W/ VINYL GRAPHICS	12'-5"	1'-11"	1	
N3	PEDESTRIAN OVERHEAD DIRECITONAL SIGN (3-LINE)	ALUMINUM FRAMED SIGN, WHITE ACRYLIC SIGN PANELS W/ VINYL GRAPHICS	6'-2"	3'-5"	2	
R	WALL MOUNTED ELEVATOR DIRECTORY	POLYCARBONATE PLAQUE W / SECOND SURFACE PRINTED GRAPHICS	1'-8"	1'-4"	3	
S1	LARGE WALL MOUNTED ADA SIGN PLAQUE	THERMOFORMED ACRYLIC TACTILE PLAQUE WITH SYMBOL	8"	10"	8	
S2-1	WALL MOUNTED ADA SIGN PLAQUE	THERMOFORMED ACRYLIC TACTILE PLAQUE	8"	6"	12	
S2-2	WALL MOUNTED ADA SIGN PLAQUE	THERMOFORMED ACRYLIC TACTILE PLAQUE	8"	6"	6	
S3	WALL MOUNTED STAIR LEVEL PLAQUE	THERMOFORMED ACRYLIC TACTILE PLAQUE	8"	10"	9	
U1	GARAGE L1 PAINTED SUPERGRAPHICS	ALUMINUM SHEET WITH POWDER COATED DIGITALLY PRINTED GRAPHICS	30'-0"	8'-0"	1	
U2	GARAGE L2 PAINTED SUPERGRAPHICS	ALUMINUM SHEET WITH POWDER COATED DIGITALLY PRINTED GRAPHICS	30'-0"	8'-0"	1	
U3	GARAGE L3 PAINTED SUPERGRAPHICS	ALUMINUM SHEET WITH POWDER COATED DIGITALLY PRINTED GRAPHICS	30'-0"	8'-0"	1	

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Apple Designs

ILM

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

PROJECT ADDRESS:
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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: MJE
DRAWN BY: AS
DESIGNED BY: JLH
PROJECT NUMBER:
2003-0070-004

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SEAL:

FOR REVIEW ONLY
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SHEET TITLE:
SIGN TYPE SCHEDULE

SHEET ID:
GR001

PROJECT STATUS:
100% BID SET

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LEGEND

- EXISTING OR PREVIOUS PHASE SIGN TO REMAIN UNMODIFIED
- NEW SIGN LOCATION
- NOT IN CONTRACT
- BID ALTERNATE #1
- BID ALTERNATE #2
- A | B
- A / B
- C / A B / D — MULTI-FACE SIGNS USE A LETTER DESIGNATION FOR EACH SIGN FACE

NOTE: ALL EXISTING SIGNAGE WITHIN DEMOLITION AREA FOR EACH PHASE TO BE REMOVED, REFER TO DEMOLITION DRAWINGS FOR PHASE BOUNDARY

NOT IN SCOPE, REFER TO VOLUME 2 PACKAGE

PG-ID.115
PG-ID.114
PG-ID.108
PG-IN.101
PG-ID.106
PG-ID.109
PG-ID.104
PG-DIR.107
PG-DIR.106
PG-DIR.105
PG-DIR.112
PG-DIR.111
PG-DIR.102
PG-DIR.101
PG-DIR.103
PG-DIR.104
PG-ID.111
PG-ID.110
PG-DIR.109
PG-ID.112

'RAC TENANT #3
- SIGNS BY TENANT
- LEASE BOUNDARY MAY VARY

'RAC TENANT #2
- SIGNS BY TENANT
- LEASE BOUNDARY MAY VARY

'RAC TENANT #1
- SIGNS BY TENANT
- LEASE BOUNDARY MAY VARY

LA-DIR.003
PG-ID.102
PG-ID.113
PG-ID.107
PG-ID.116
PG-ID.103
PG-RG.002
PG-ID.101
PG-ID.116
PG-RG.002
PG-RG.003
CLEARANCE BAR SUSPENDED FROM SIGN PORTAL (COORDINATE LOCATION WITH CIVIL)

PN
N

A1 OVERALL GROUND FLOOR SIGN LOCATION PLAN - ALT 2

SCALE: 1" = 20'-0"

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PROJECT ADDRESS:
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WILMINGTON, NC 28405

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	JH
DRAWN BY:	AS
DESIGNED BY:	JH
PROJECT NUMBER:	2003-0070-004

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SHEET TITLE:
OVERALL GROUND FLOOR GARAGE SIGN LOCATION PLAN

SHEET ID:
GR101

PROJECT STATUS:
100% BID SET

3/17/2025 11:54:17 AM Autodesk Docs://1003007004_ILM TO4 Rdwy Inf Imprvv Design/20030070006_ILM_TO6_Parking Garage and Shuttle Plaza_GR_R24.rvt

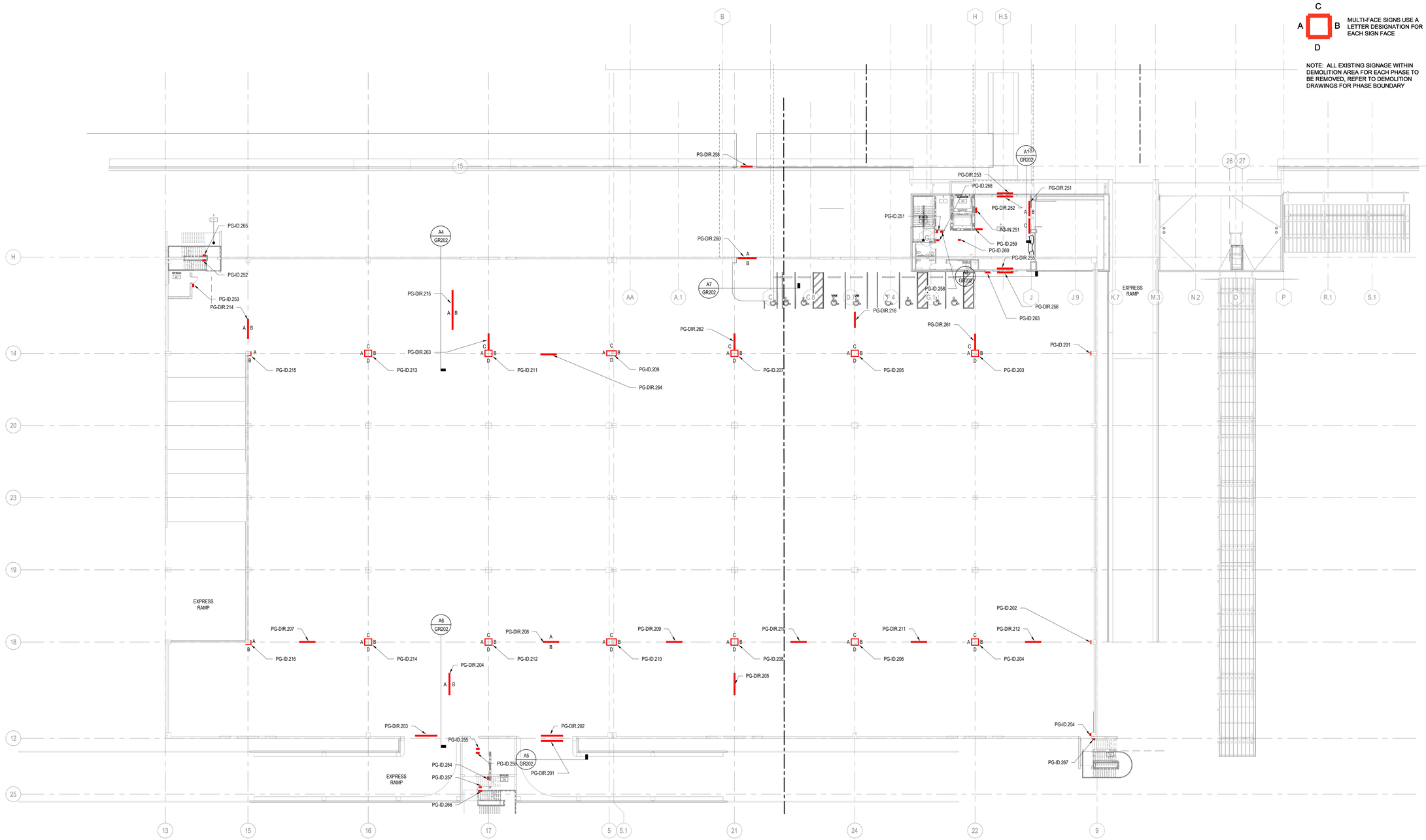
LEGEND

- EXISTING OR PREVIOUS PHASE SIGN TO REMAIN UNMODIFIED
- NEW SIGN LOCATION
- NOT IN CONTRACT
- BID ALTERNATE #1
- BID ALTERNATE #2

A | B A / B

C / A | B / D MULTI-FACE SIGNS USE A LETTER DESIGNATION FOR EACH SIGN FACE

NOTE: ALL EXISTING SIGNAGE WITHIN DEMOLITION AREA FOR EACH PHASE TO BE REMOVED, REFER TO DEMOLITION DRAWINGS FOR PHASE BOUNDARY



PN / N

A1 OVERALL SECOND SIGN LOCATION PLAN

SCALE: 1" = 20'-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

REVISIONS

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SHEET TITLE:
OVERALL SECOND FLOOR SIGN LOCATION PLAN

SHEET ID:
GR121

PROJECT STATUS:
100% BID SET

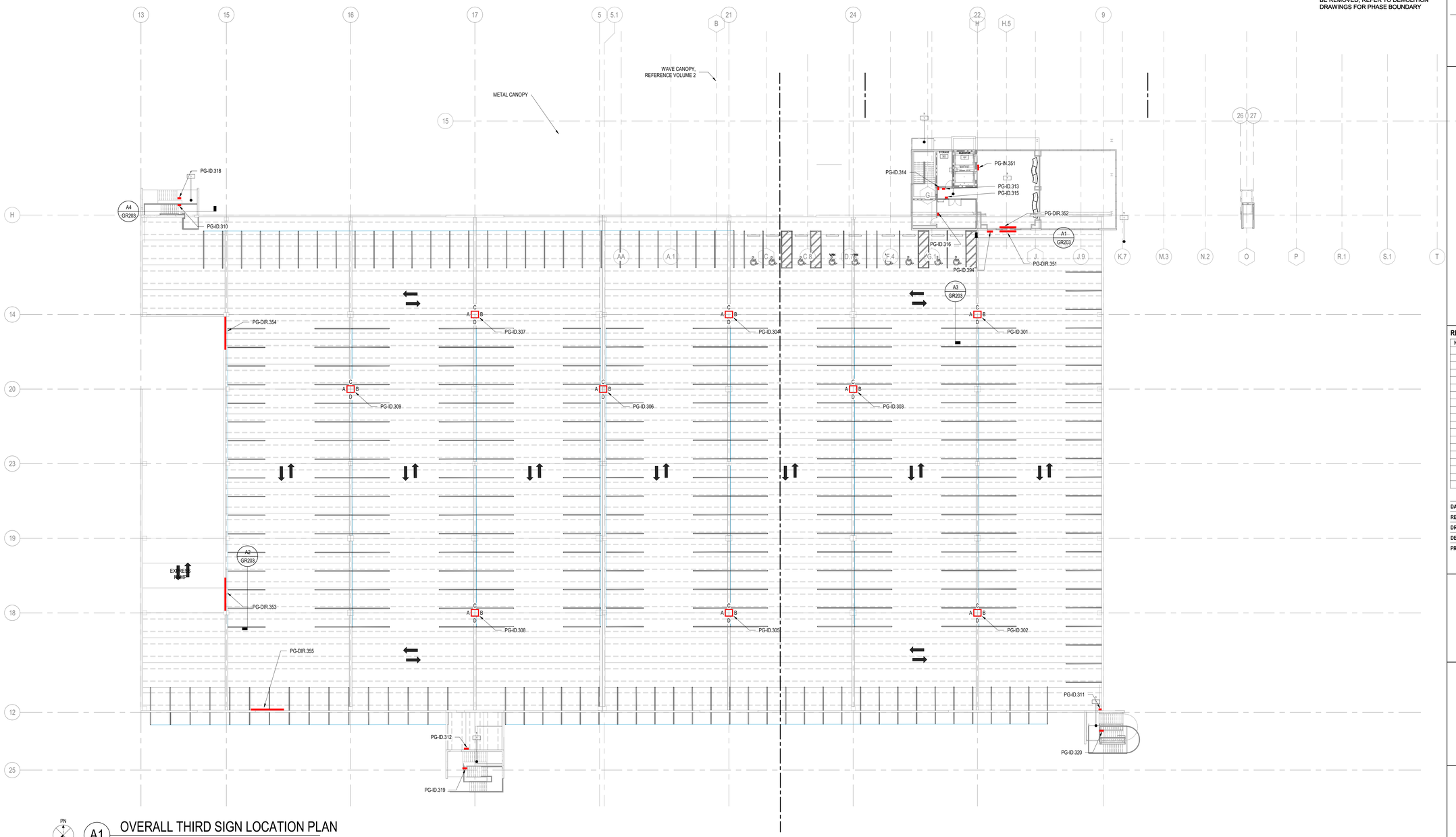
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LEGEND

- EXISTING OR PREVIOUS PHASE SIGN TO REMAIN UNMODIFIED
- NEW SIGN LOCATION
- NOT IN CONTRACT
- BID ALTERNATE #1
- BID ALTERNATE #2
- A | B — A / B
- C / A B D — MULTI-FACE SIGNS USE A LETTER DESIGNATION FOR EACH SIGN FACE

NOTE: ALL EXISTING SIGNAGE WITHIN DEMOLITION AREA FOR EACH PHASE TO BE REMOVED, REFER TO DEMOLITION DRAWINGS FOR PHASE BOUNDARY



PN

A1 OVERALL THIRD SIGN LOCATION PLAN

SCALE: 1" = 20'-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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DESIGNED BY:	JH
PROJECT NUMBER:	2003-0070-004

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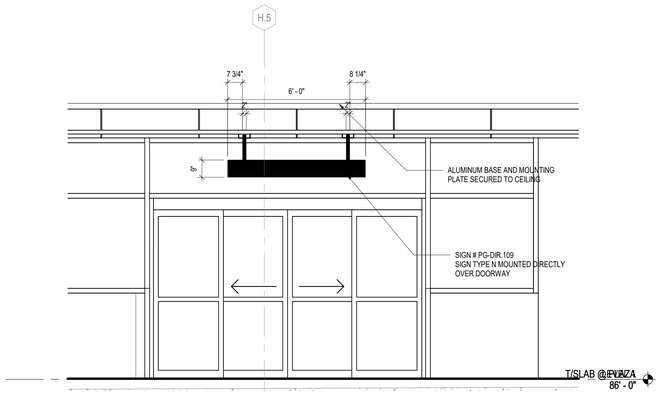
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OVERALL THIRD FLOOR SIGN LOCATION PLAN

SHEET ID:
GR131

PROJECT STATUS:
100% BID SET

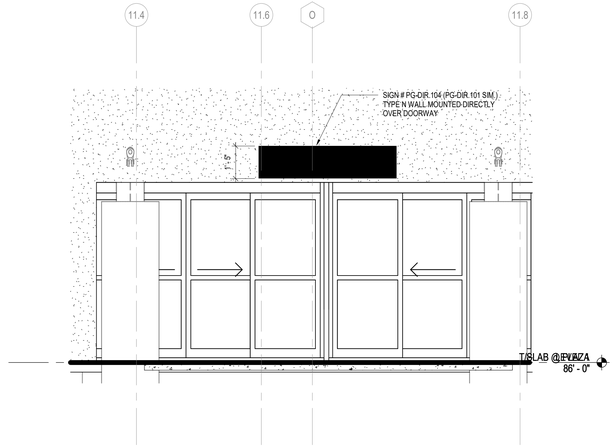
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A1 LEVEL 1 - SIGN AT CORE ENTRY

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



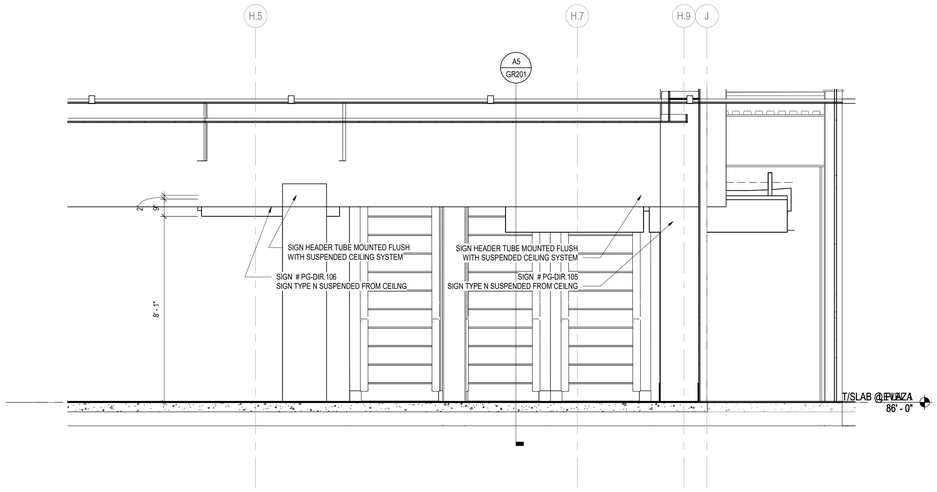
A2 LEVEL 1 - SIGN AT WALKWAY ENTRY

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



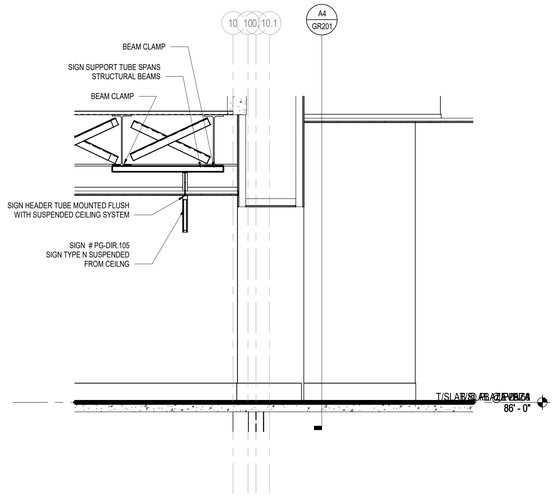
A3 LEVEL 1 - SIGN AT SHUTTLE PLAZA EXIT

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



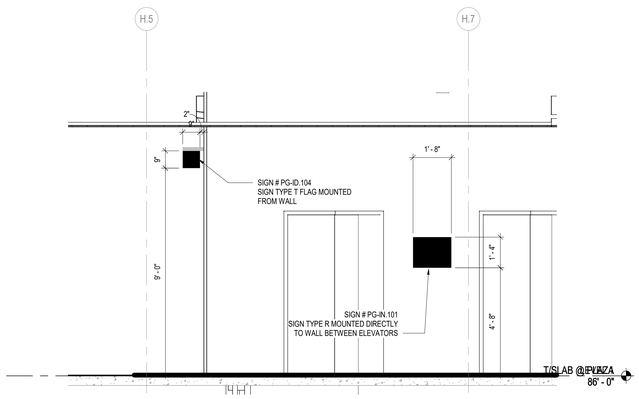
A4 LEVEL 1 - CEILING MOUNTED SIGNS IN CORE

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



A5 LEVEL 1 - CEILING MOUNTED SIGN SECTION

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



A6 LEVEL 1 - SIGNS AT ELEVATOR CORE

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

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ILM

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

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
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DRAWN BY:	JF
DESIGNED BY:	JF
PROJECT NUMBER:	2003-0070-004

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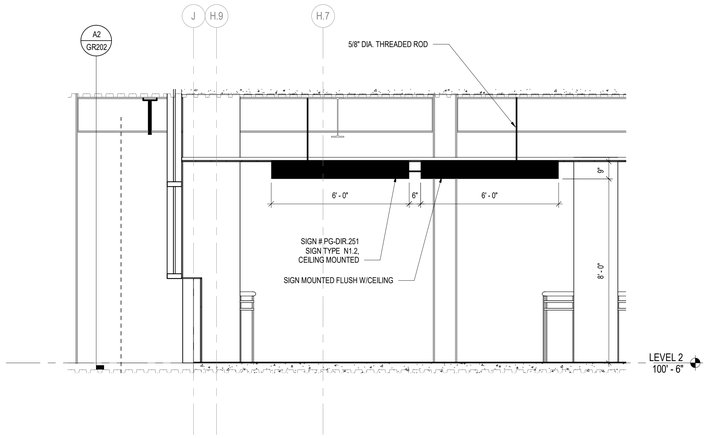
SHEET TITLE:
PROGRAM SIGNAGE ELEVATIONS

SHEET ID:
GR201

PROJECT STATUS:
100% BID SET

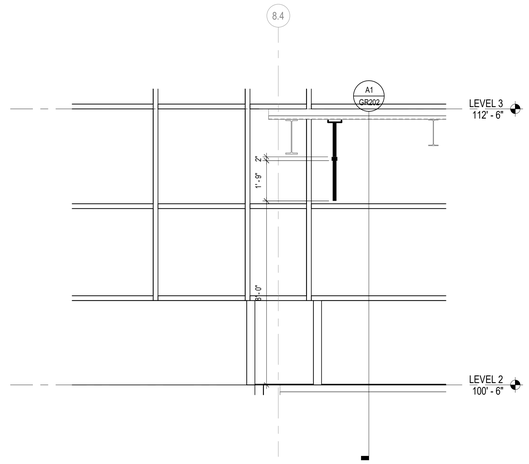
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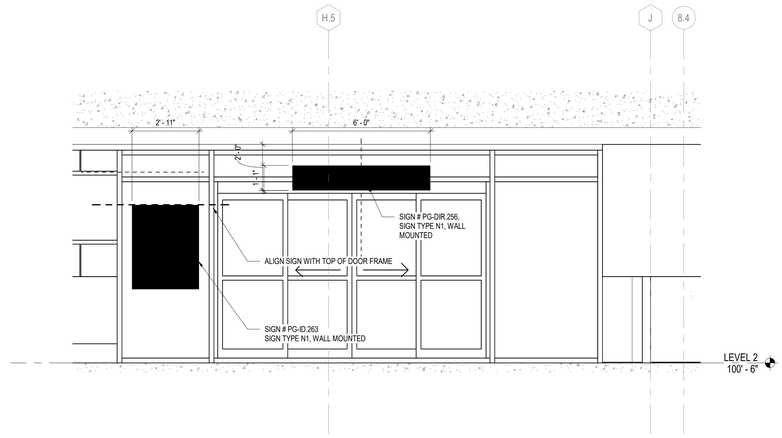
A1 LEVEL 2 - SIGN ELEVATION AT CORE ESCALATOR

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



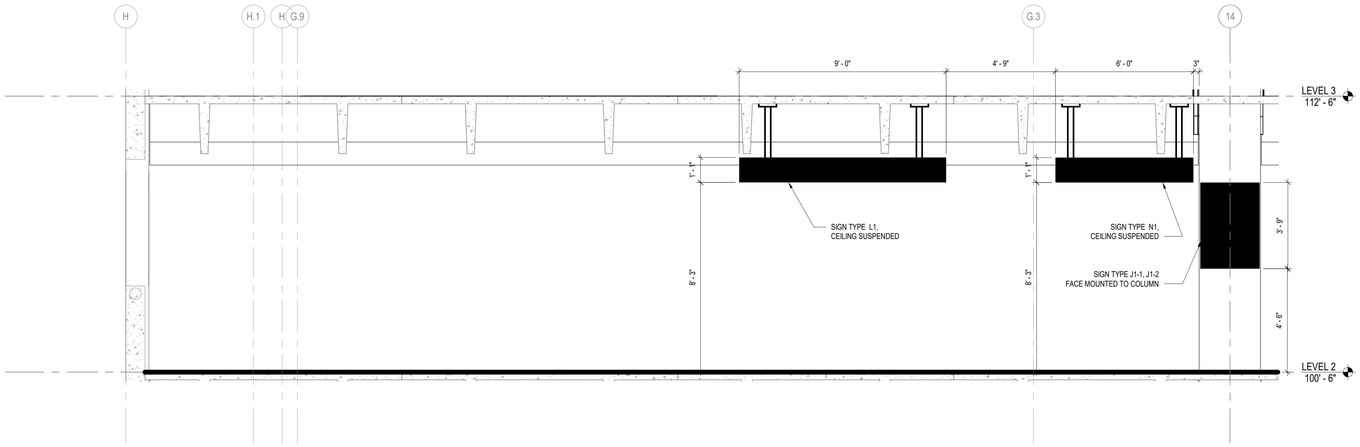
A2 LEVEL 2 - SIDE ELEVATION

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



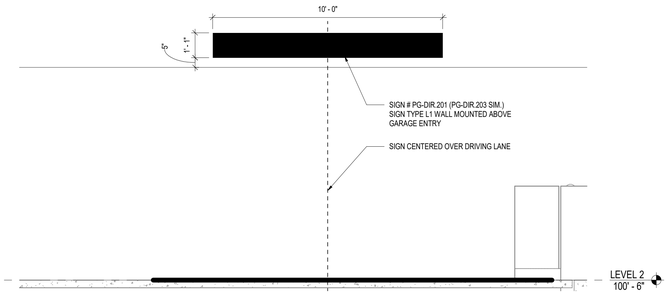
A3 LEVEL 2 - GARAGE SIGNS AT CORE ENTRY

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



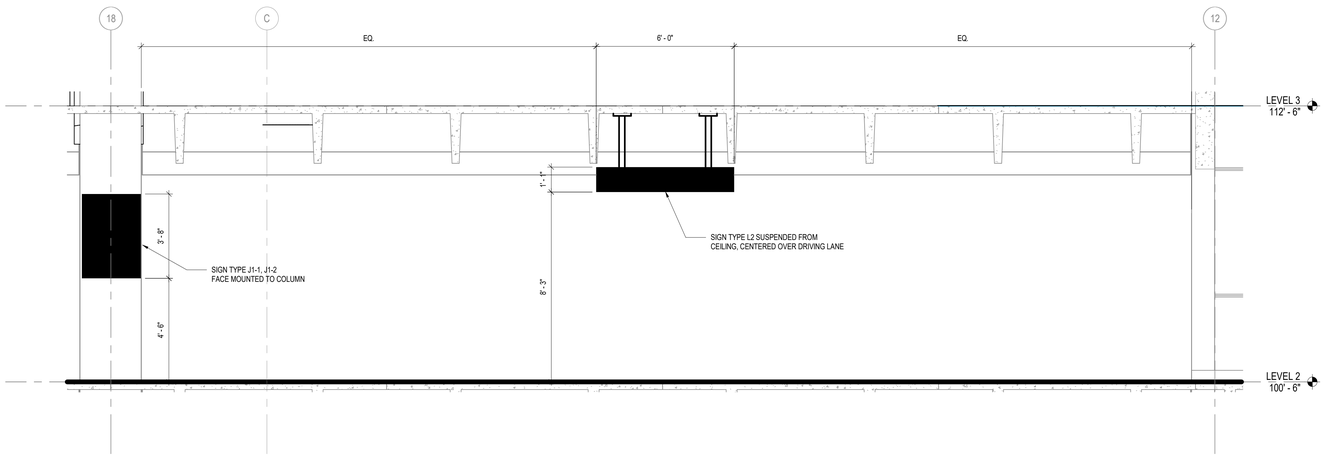
A4 LEVEL 2 - GARAGE SIGN MOUNTING ELEVATIONS

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



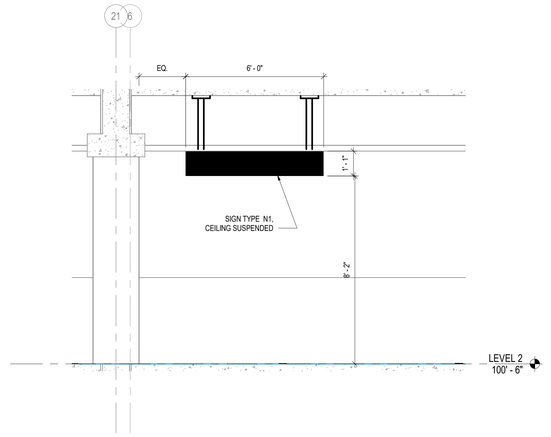
A5 LEVEL 2 - SIGN AT GARAGE ENTRY

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



A6 LEVEL 2 - GARAGE SIGN MOUNTING ELEVATIONS

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



A7 LEVEL 2 - GARAGE SIGN AT RAMP EXIT

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

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Apple Designs

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

DATE ISSUED:	03/14/2025
REVIEWED BY:	JH
DRAWN BY:	JF
DESIGNED BY:	JF
PROJECT NUMBER:	

2003-0070-004

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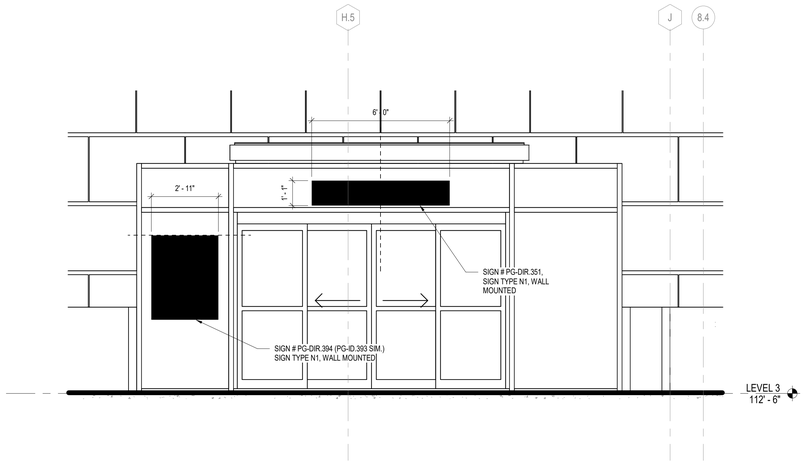
SHEET TITLE:
PROGRAM SIGNAGE ELEVATIONS

SHEET ID:
GR202

PROJECT STATUS:
100% BID SET

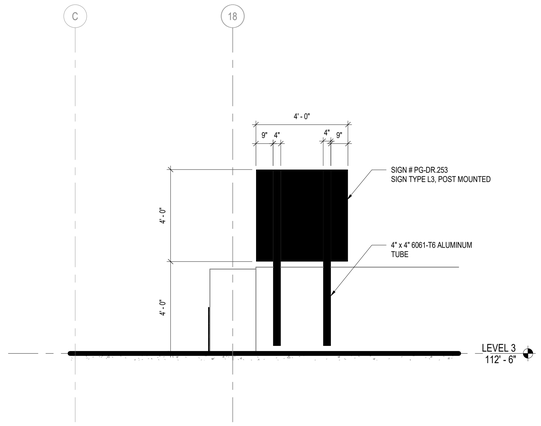
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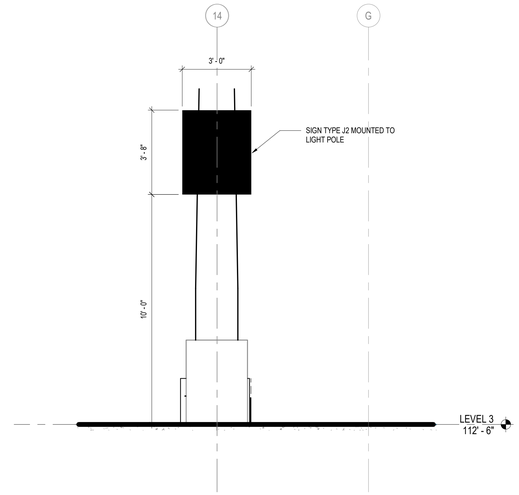
A1 LEVEL 3 - SIGNS AT CORE ENTRY

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



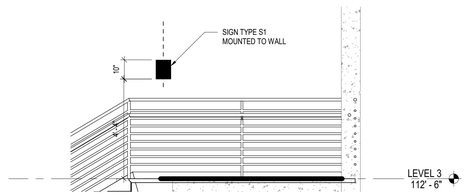
A2 LEVEL 3 - POST MOUNTED EXIT SIGNS

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



A3 LEVEL 3 - LIGHT POLE MOUNTED ID SIGN

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



A4 TYPICAL ELEVATION - SIGN TYPE S1

SCALE: 3/8" = 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

REVISIONS

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DATE ISSUED:	03/14/2025
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DRAWN BY:	JF
DESIGNED BY:	JF

PROJECT NUMBER:
2003-0070-004

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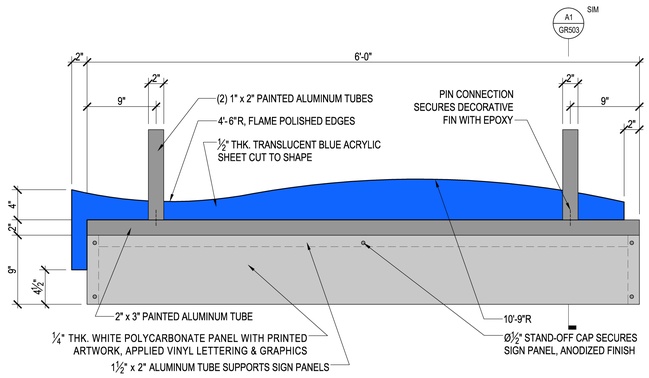
SHEET TITLE:
PROGRAM SIGNAGE ELEVATIONS

SHEET ID:
GR203

PROJECT STATUS:
100% BID SET

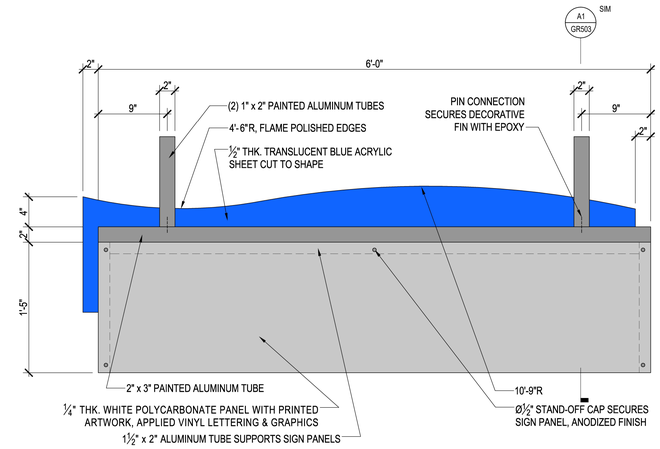
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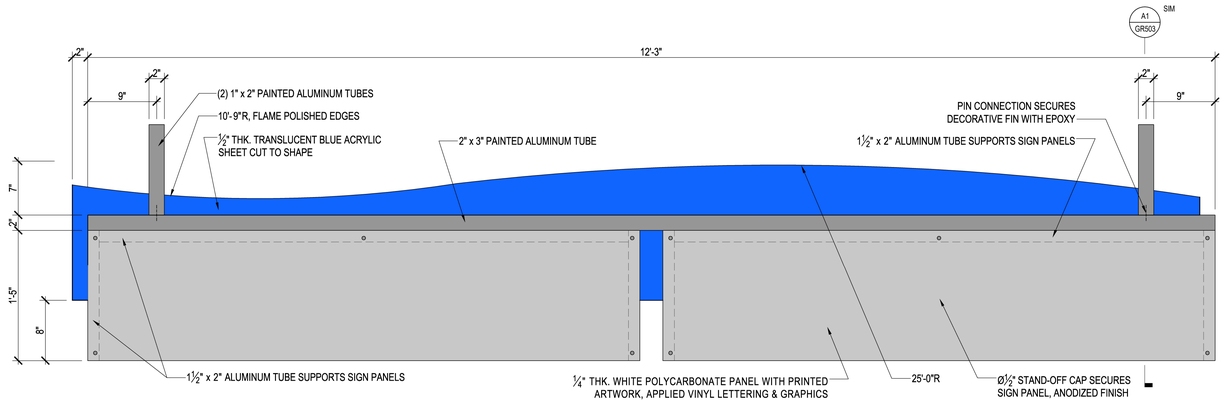
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A1 ELEVATION - SIGN TYPE N1 - PEDESTRIAN OVERHEAD DIRECTIONAL SIGN

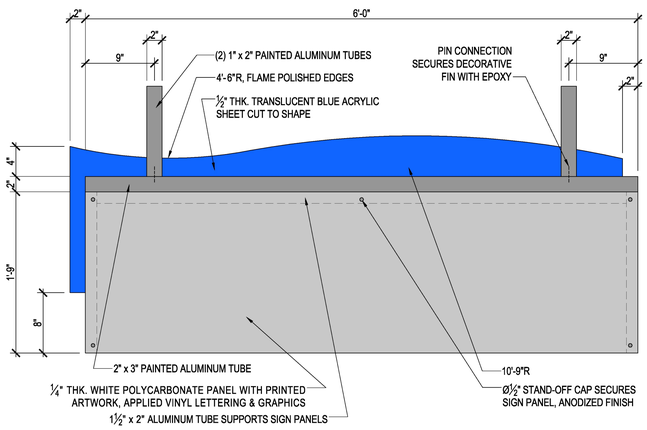
SCALE: 1 1/2" = 1'-0"





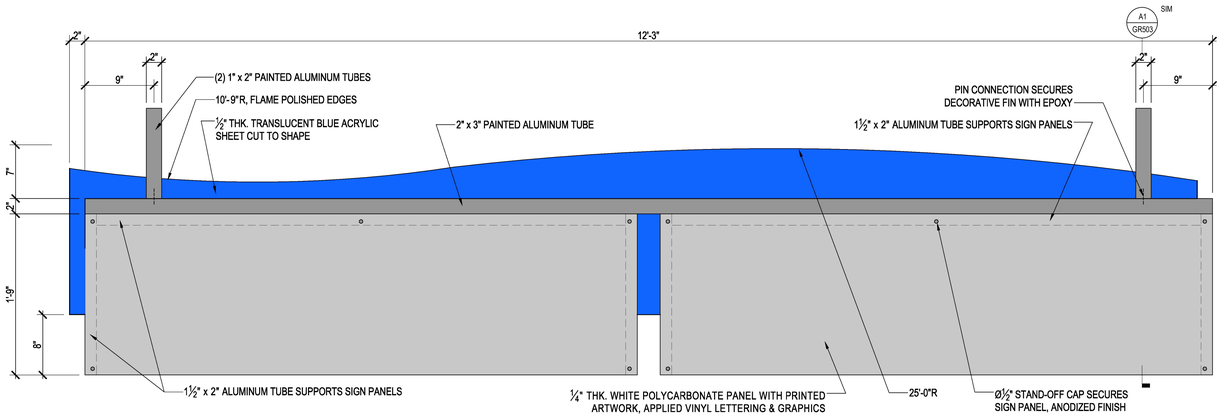
A2 ELEVATION - SIGN TYPE N2 - PEDESTRIAN OVERHEAD DIRECTIONAL SIGN

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



A3 ELEVATION - SIGN TYPE N2-2 - PEDESTRIAN OVERHEAD DIRECTIONAL SIGN

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



A4 ELEVATION - SIGN TYPE N3 - PEDESTRIAN OVERHEAD DIRECTIONAL SIGN

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

A5 ELEVATION - SIGN TYPE N3-2 - PEDESTRIAN OVERHEAD DIRECTIONAL SIGN

SCALE: 1 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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DESIGNED BY:	JF
PROJECT NUMBER:	**2003-0070-004**

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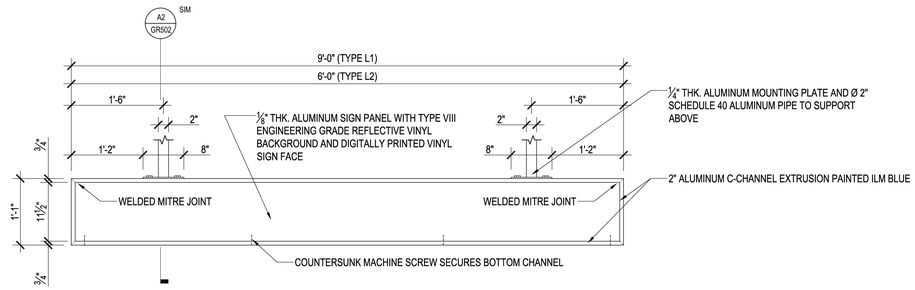
SHEET TITLE:
PROGRAM SIGNAGE DETAILS

SHEET ID:
GR501

PROJECT STATUS:
100% BID SET

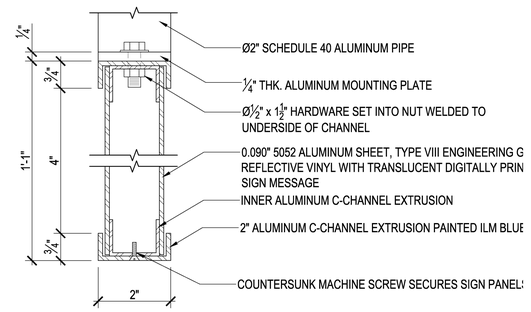
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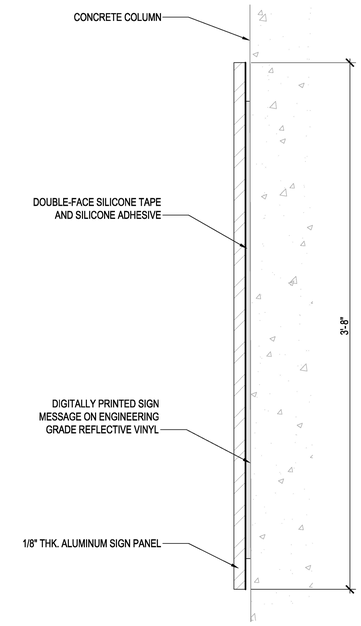
A1 ELEVATION - SIGN TYPE L - GARAGE OVERHEAD DIRECTIONAL SIGN

SCALE: 1" = 1'-0"



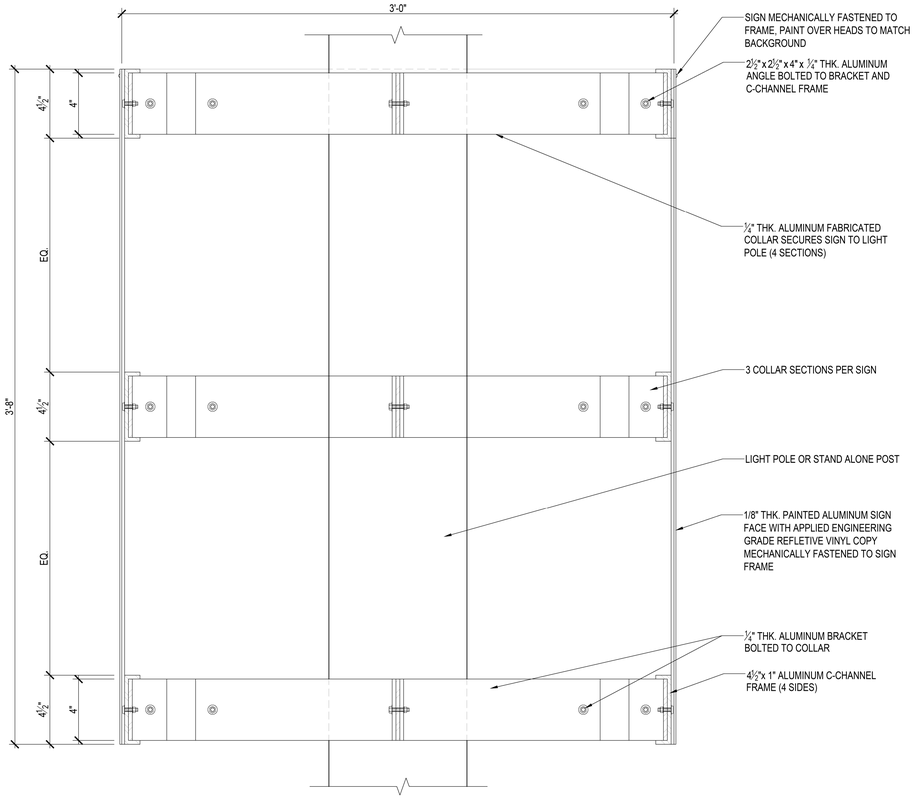
A2 SECTION - SIGN TYPE L - GARAGE OVERHEAD DIRECTIONAL SIGN

SCALE: 3" = 1'-0"



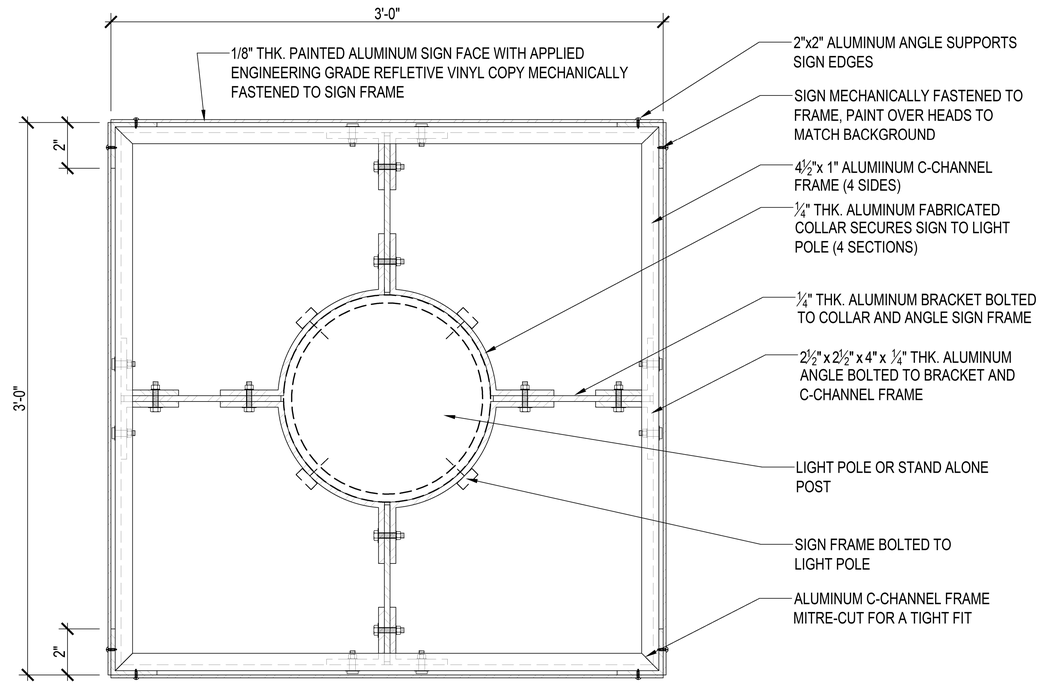
A3 VERTICAL SECTION - TYPE J1-1, J1-2

SCALE: 12" = 1'-0"



A4 VERTICAL SECTION - TYPE J - POLE MOUNTED CUBE SIGN

SCALE: 3" = 1'-0"



A5 ENLARGED PLAN - TYPE J - POLE MOUNTED CUBE SIGN

SCALE: 3" = 1'-0"

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Apple Designs

ILM

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PROJECT ADDRESS:
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WILMINGTON, NC 28405

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DESIGNED BY:	JF
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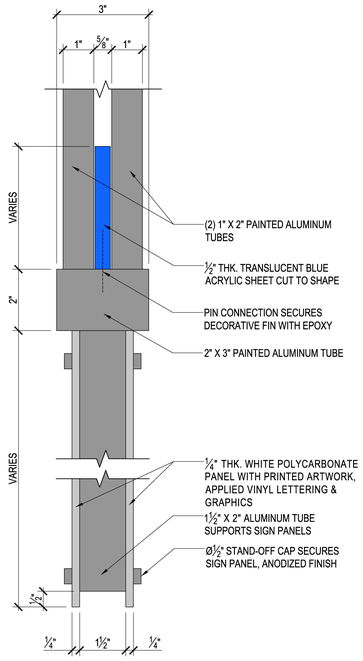
SHEET TITLE:
PROGRAM SIGNAGE DETAILS

SHEET ID:
GR502

PROJECT STATUS:
100% BID SET

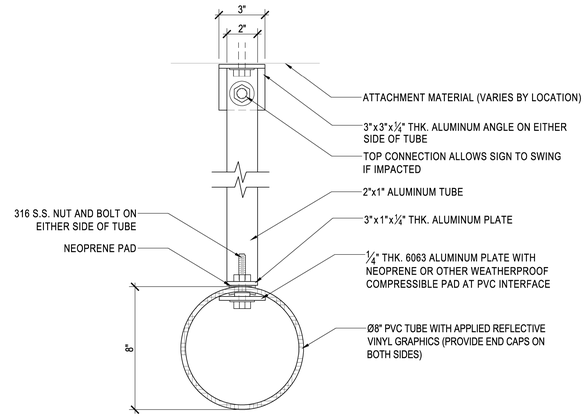
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3/17/2025 11:54:37 AM Autodesk Docs://1003007004_ILM TO4 Rdwy Int'l Improv Design/2003007006_ILM_TO6_Parking Garage and Shuttle Plaza_GR_R24.rvt



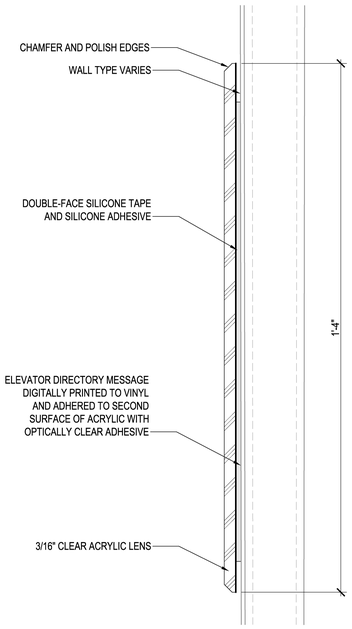
A1 SECTION - SIGN TYPE Nx - PEDESTRIAN OVERHEAD DIRECTIONAL SIGN

SCALE: 6" = 1'-0"



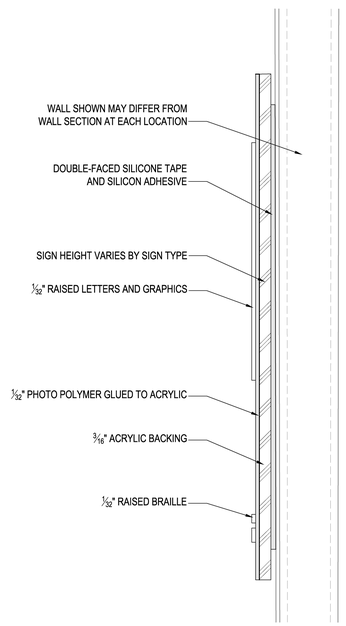
A2 SECTION - SIGN TYPE M - CLEARANCE BAR

SCALE: 3" = 1'-0"



A3 SECTION - SIGN TYPE R

SCALE: 12" = 1'-0"



A4 SECTION - SIGN TYPE S

SCALE: 12" = 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

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	JH
DRAWN BY:	JF
DESIGNED BY:	JF
PROJECT NUMBER:	

2003-0070-004

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PROGRAM SIGNAGE DETAILS

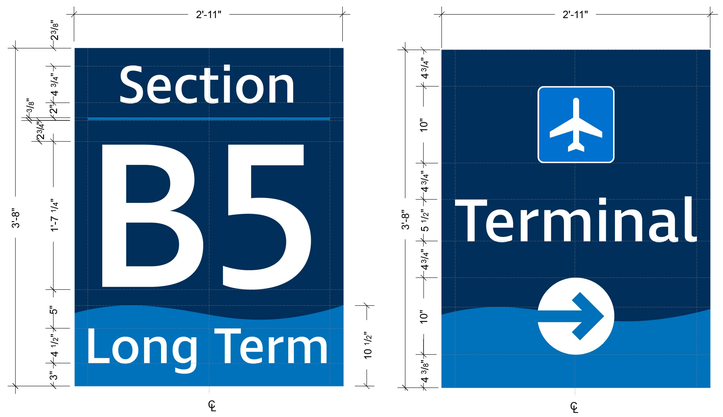
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GR503

PROJECT STATUS:
100% BID SET

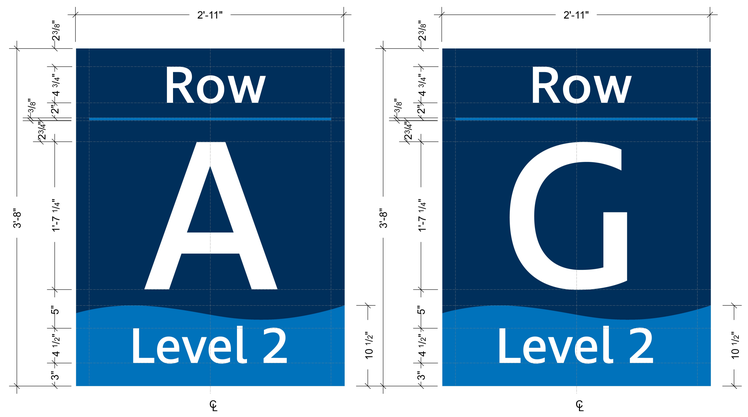
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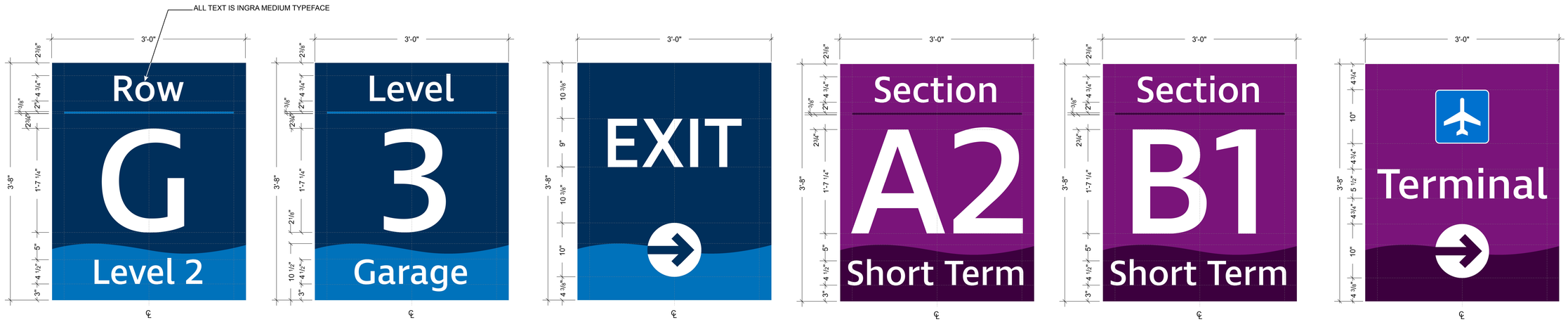
A1 GRAPHIC LAYOUT - SIGN TYPE J1-1 - GARAGE LEVEL 2 COLUMN MOUNTED SIGN (LONG SIDE)

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



A2 GRAPHIC LAYOUT - SIGN TYPE J1-2 - GARAGE LEVEL 2 COLUMN MOUNTED SIGN (SHORT SIDE)

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



A3 GRAPHIC LAYOUT - SIGN TYPE J2 - POLE MOUNTED SHUTTLE STOP ID SIGN

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

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ILM

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	JH
DRAWN BY:	JF
DESIGNED BY:	JF

PROJECT NUMBER:
2003-0070-004

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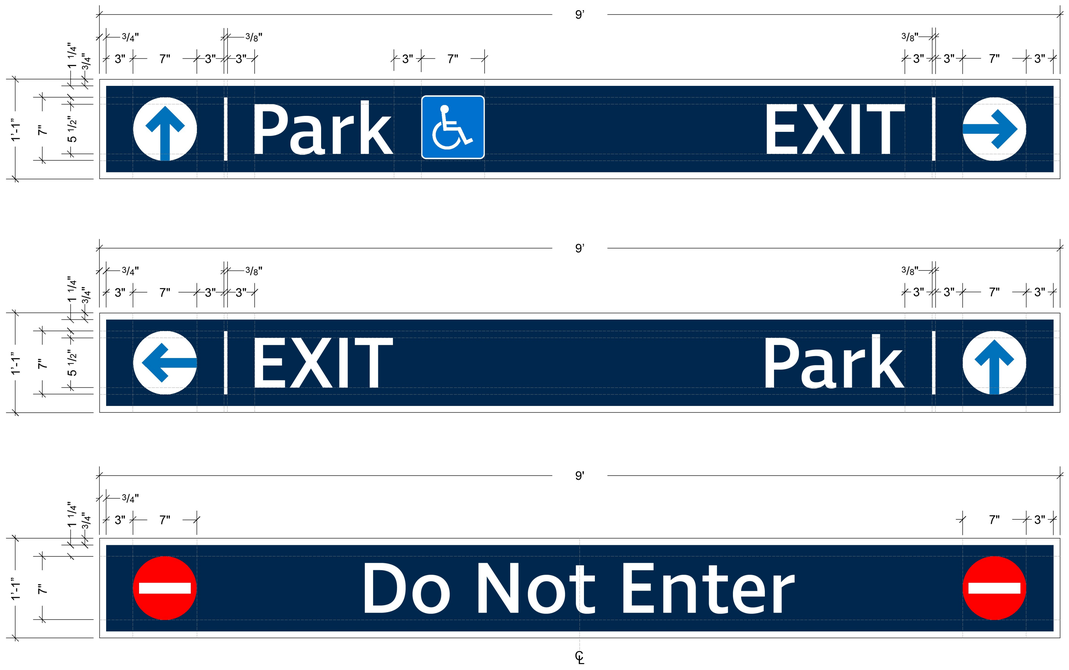
SHEET TITLE:
PROGRAM SIGNAGE GRAPHIC LAYOUTS

SHEET ID:
GR601

PROJECT STATUS:
100% BID SET

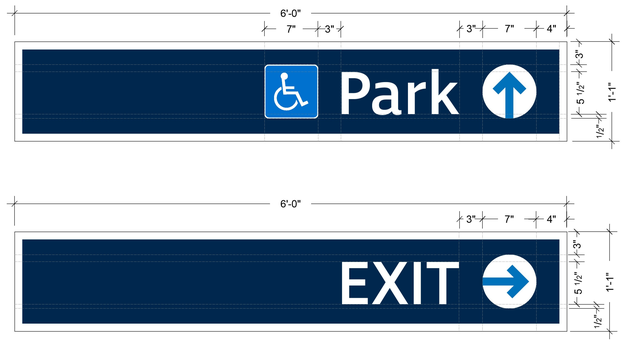
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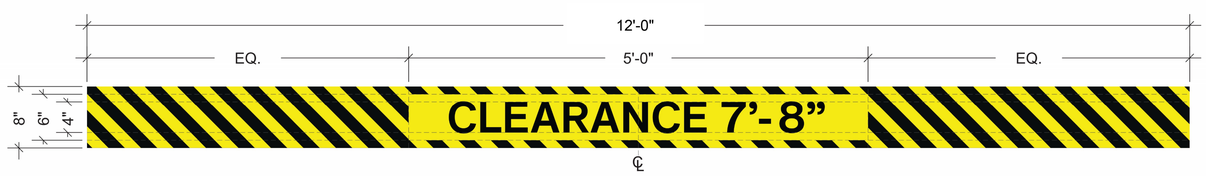
A1 GRAPHIC LAYOUT - SIGN TYPE L1 - GARAGE OVERHEAD DIRECTIONAL SIGN

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



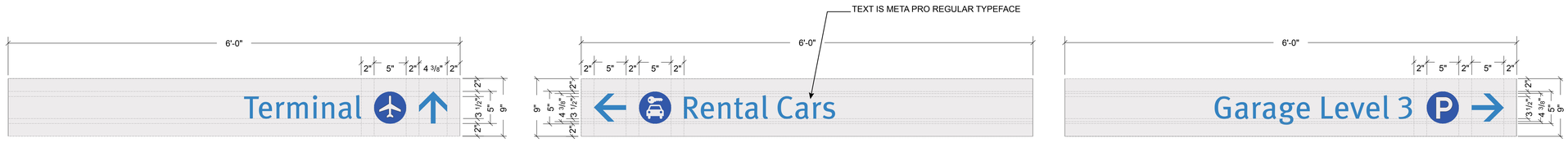
A2 GRAPHIC LAYOUT - SIGN TYPE L2 - GARAGE OVERHEAD DIRECTIONAL SIGN

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



A3 GRAPHIC LAYOUT - SIGN TYPE M - CLEARANCE BAR

SCALE: 3" = 1'-0"



A4 GRAPHIC LAYOUTS - SIGN TYPE N1

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

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ILM

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	JH
DRAWN BY:	JF
DESIGNED BY:	JF
PROJECT NUMBER:	2003-0070-004

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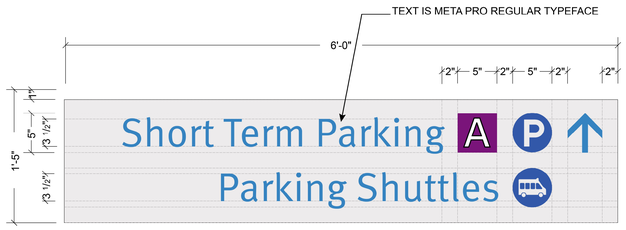
SHEET TITLE:
PROGRAM SIGNAGE GRAPHIC LAYOUTS

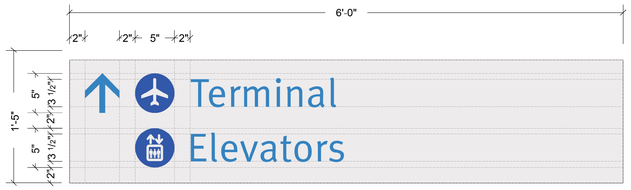
SHEET ID:
GR602

PROJECT STATUS:
100% BID SET

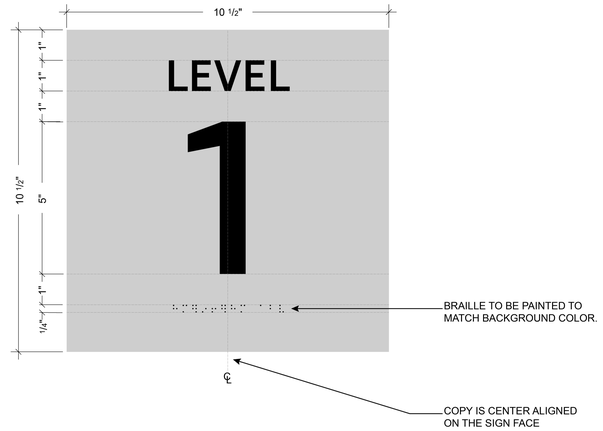
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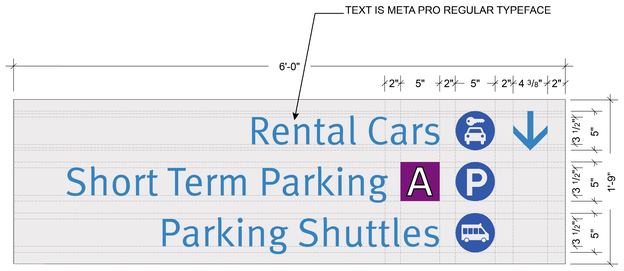


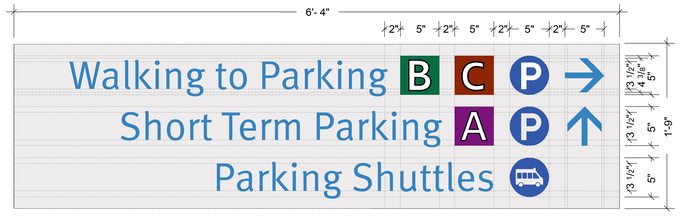
A1 GRAPHIC LAYOUTS - SIGN TYPE N2
SCALE: 1 1/2" = 1'-0"



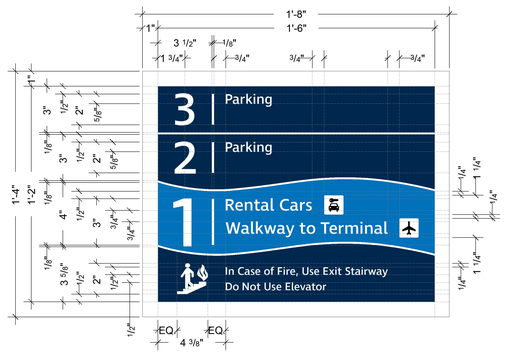
A2 GRAPHIC LAYOUT - SIGN TYPE S3 - WALL MOUNTED STAIR LEVEL PLAQUE
SCALE: 6" = 1'-0"



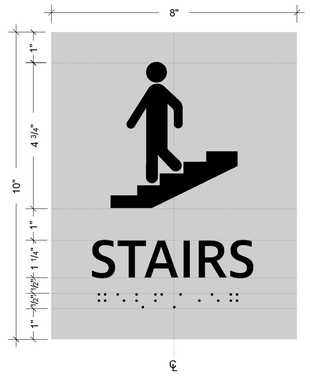




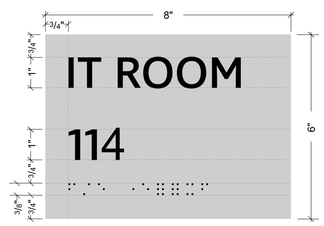
A3 GRAPHIC LAYOUTS - SIGN TYPE N3
SCALE: 1 1/2" = 1'-0"



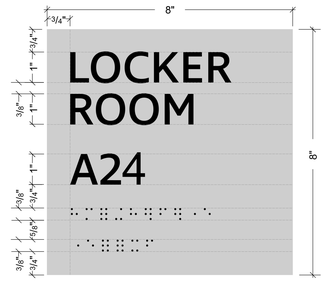
A4 GRAPHIC LAYOUT - SIGN TYPE R
SCALE: 3" = 1'-0"



A5 GRAPHIC LAYOUT - SIGN TYPE S1
SCALE: 6" = 1'-0"



A6 GRAPHIC LAYOUT -SIGN TYPE S2-1
SCALE: 6" = 1'-0"



A7 GRAPHIC LAYOUT - SIGN TYPE S2-2
SCALE: 6" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	JH
DRAWN BY:	JF
DESIGNED BY:	JF

PROJECT NUMBER:
2003-0070-004

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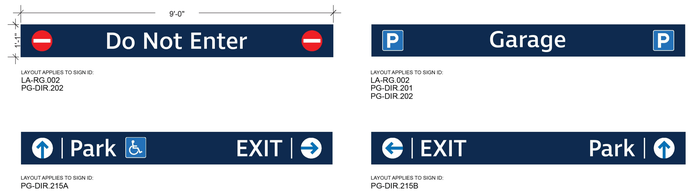
SHEET TITLE:
PROGRAM SIGNAGE GRAPHIC LAYOUTS

SHEET ID:
GR603

PROJECT STATUS:
100% BID SET

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A1 MESSAGE LAYOUTS - SIGN TYPE L1

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



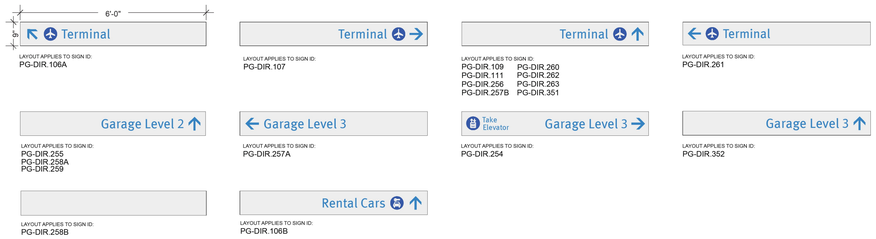
A2 MESSAGE LAYOUTS - SIGN TYPE L2

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



A3 MESSAGE LAYOUTS - SIGN TYPE L3

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



A4 MESSAGE LAYOUTS - SIGN TYPE N1

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



A5 MESSAGE LAYOUTS - SIGN TYPE N2

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



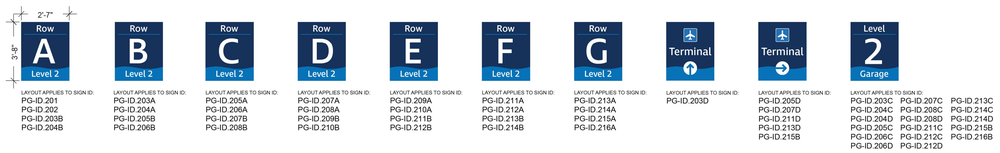
A6 MESSAGE LAYOUTS - SIGN TYPE N3

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



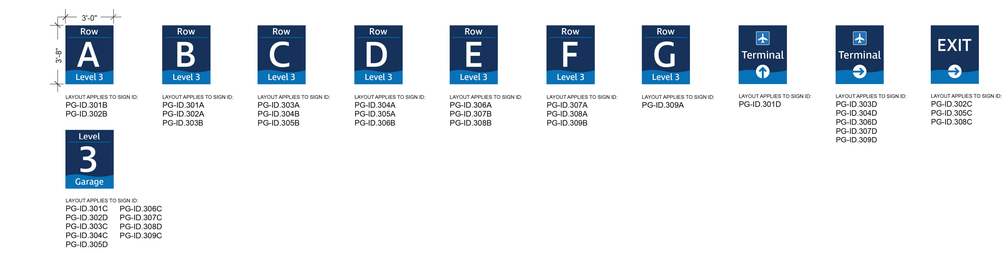
A7 MESSAGE LAYOUTS - SIGN TYPE J1-1

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



A8 MESSAGE LAYOUTS - SIGN TYPE J1-2

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



A9 MESSAGE LAYOUTS - SIGN TYPE J2

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

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	03/14/2025
REVIEWED BY:	JH
DRAWN BY:	JF
DESIGNED BY:	JF

PROJECT NUMBER:
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SHEET TITLE:
PROGRAM SIGNAGE MESSAGE LAYOUTS

SHEET ID:
GR610

PROJECT STATUS:
100% BID SET

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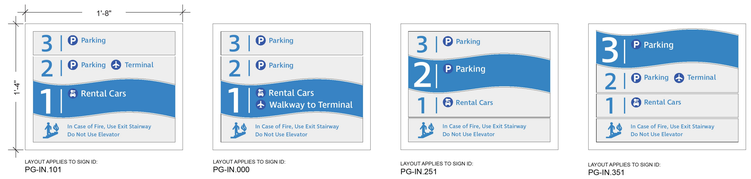
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LAYOUT APPLIES TO SIGN ID:
LA-RG.001
LA-RG.201

A1 MESSAGE LAYOUTS - SIGN TYPE M

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



LAYOUT APPLIES TO SIGN ID:
PG-IN.101

LAYOUT APPLIES TO SIGN ID:
PG-IN.000

LAYOUT APPLIES TO SIGN ID:
PG-IN.251

LAYOUT APPLIES TO SIGN ID:
PG-IN.351

A2 MESSAGE LAYOUTS - SIGN TYPE R

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



LAYOUT APPLIES TO SIGN ID:
PG-ID.101 PG-ID.109 PG-ID.255 PG-ID.391
PG-ID.102 PG-ID.251 PG-ID.257
PG-ID.107 PG-ID.252 PG-ID.310
PG-ID.108 PG-ID.252 PG-ID.311

A3 MESSAGE LAYOUTS - SIGN TYPE S1

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



LAYOUT APPLIES TO SIGN ID:
PG-ID.103

LAYOUT APPLIES TO SIGN ID:
PG-ID.256

A4 MESSAGE LAYOUTS - SIGN TYPE S3

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



LAYOUT APPLIES TO SIGN ID:
PG-ID.104A
PG-ID.104B

A5 MESSAGE LAYOUTS - SIGN TYPE T

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

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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 03/14/2025
REVIEWED BY: JH
DRAWN BY: JF
DESIGNED BY: JF
PROJECT NUMBER:
2003-0070-004

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SHEET TITLE:
PROGRAM SIGNAGE MESSAGE LAYOUTS

SHEET ID:
GR611

PROJECT STATUS:
100% BID SET

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