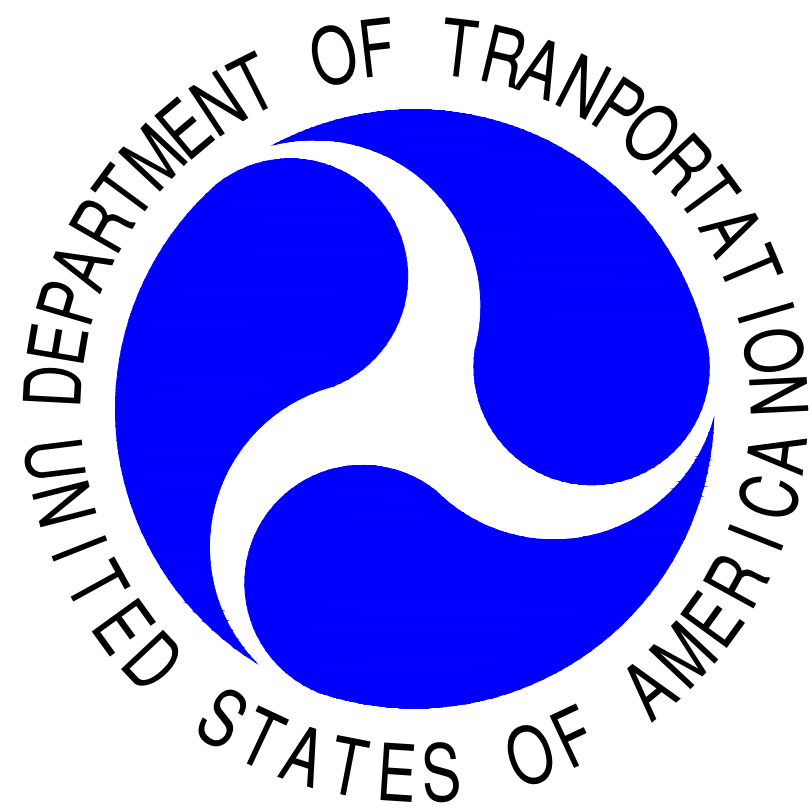
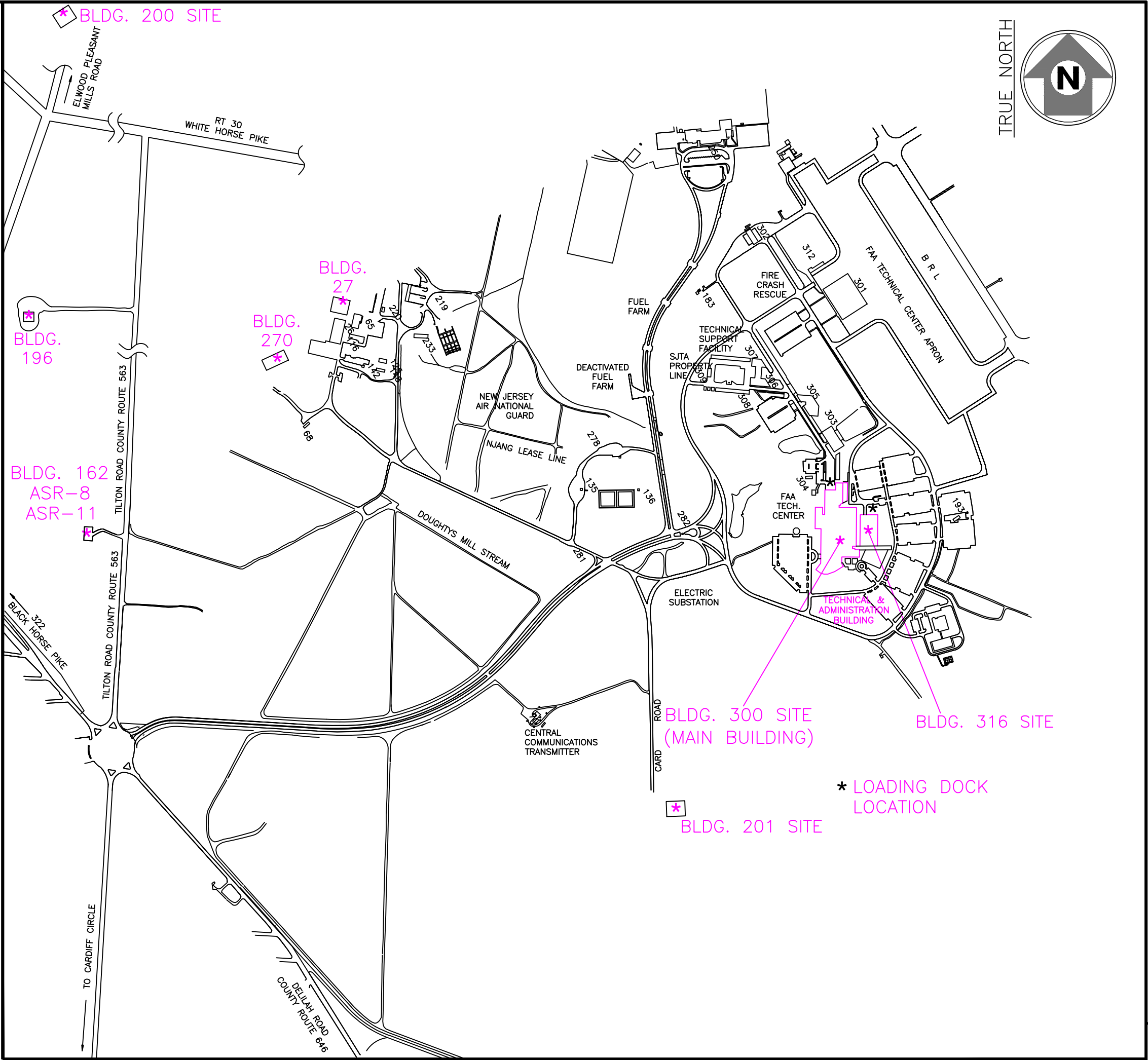




U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

AFTIL RELOCATION TO BUILDINGS 27 & 28
PHASE 2

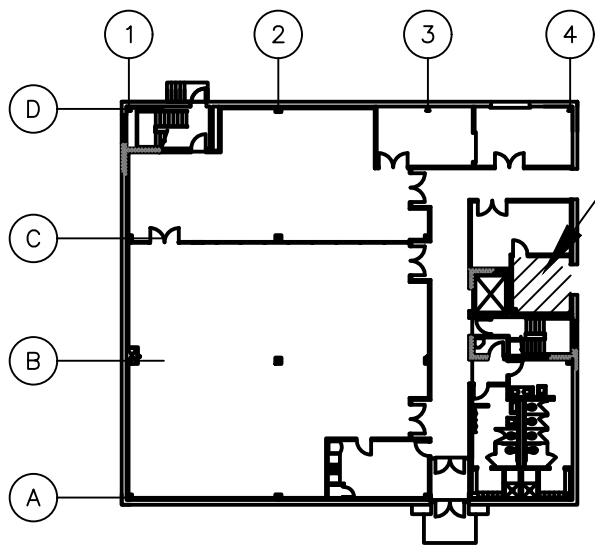
WILLIAM J. HUGHES
FAA TECHNICAL CENTER
ATLANTIC CITY INT'L AIRPORT,
NEW JERSEY



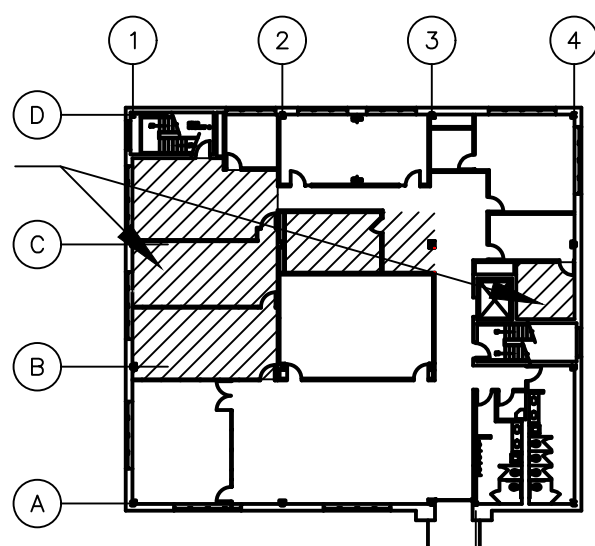
LOCATION MAP
N.T.S.

INDEX OF DRAWINGS

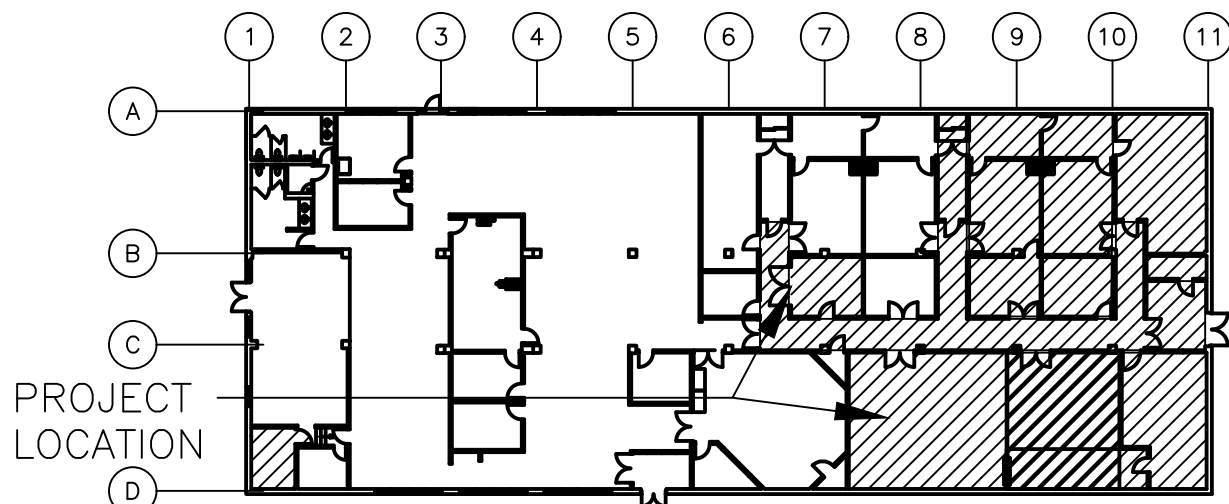
DRAWING NUMBER	TITLE	SHEET #
201209-G000	COVER SHEET	SHEET 1 OF 27
201209-A100	EQUIPMENT FLOOR PLAN - DEMOLITION - BLDG. 27-2	SHEET 2 OF 27
201209-A101	PARTITION WALL PLAN - NEW WORK - BLDG. 27-2	SHEET 3 OF 27
201209-A102	EQUIPMENT FLOOR PLAN - NEW WORK - BLDG. 27-2	SHEET 4 OF 27
201209-A103	EQUIPMENT FLOOR PLAN - DEMOLITION - BLDG. 28-1	SHEET 5 OF 27
201209-A104	EQUIPMENT FLOOR PLAN - NEW WORK - BLDG. 28-1	SHEET 6 OF 27
201209-A105	REFLECTED CEILING PLANS - BLDG. 27-2	SHEET 7 OF 27
201209-A106	REFLECTED CEILING PLAN - DEMOLITION - BLDG. 28-1	SHEET 8 OF 27
201209-A107	REFLECTED CEILING PLAN - NEW WORK - BLDG. 28-1	SHEET 9 OF 27
201209-A108	RAISED ACCESS FLOOR PLAN - DEMOLITION - BLDG. 28-1	SHEET 10 OF 27
201209-A109	RAISED ACCESS FLOOR PLAN - NEW WORK - BLDG. 28-1	SHEET 11 OF 27
201209-A901	DOOR SCHEDULE, NOTES AND DETAILS	SHEET 12 OF 27
201209-E001	ELECTRICAL GENERAL NOTES	SHEET 13 OF 27
201209-E002	GROUNDING STANDARDS	SHEET 14 OF 27
201209-E003	LIGHTING NOTES AND LEGENDS	SHEET 15 OF 27
201209-E101	UNDERFLOOR POWER PLAN - DEMOLITION - BLDG. 28-1	SHEET 16 OF 27
201209-E102	UNDERFLOOR POWER PLAN - NEW WORK - BLDG. 28-1	SHEET 17 OF 27
201209-E103	GROUNDING PLANS - NEW WORK - BLDG. 27 -1 & 2	SHEET 18 OF 27
201209-E104	GROUNDING PLAN - NEW WORK - BLDG. 28-1	SHEET 19 OF 27
201209-E105	LIGHTING PLAN - DEMOLITION - BLDG. 27-2	SHEET 20 OF 27
201209-E106	LIGHTING PLAN - NEW WORK - BLDG. 27-2	SHEET 21 OF 27
201209-E107	LIGHTING PLAN - DEMOLITION - BLDG. 28-1	SHEET 22 OF 27
201209-E108	LIGHTING PLAN - NEW WORK - BLDG. 28-1	SHEET 23 OF 27
201209-E601	SINGLE LINE DIAGRAM AND PANEL SCHEDULES	SHEET 24 OF 27
201209-E602	PANEL SCHEDULES	SHEET 25 OF 27
201209-E603	PANEL SCHEDULES	SHEET 26 OF 27
201209-E901	ELECTRICAL DETAILS	SHEET 27 OF 27



27-1 KEY PLAN



27-2 KEY PLAN



28-1 KEY PLAN

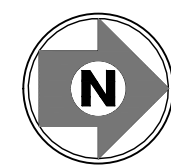
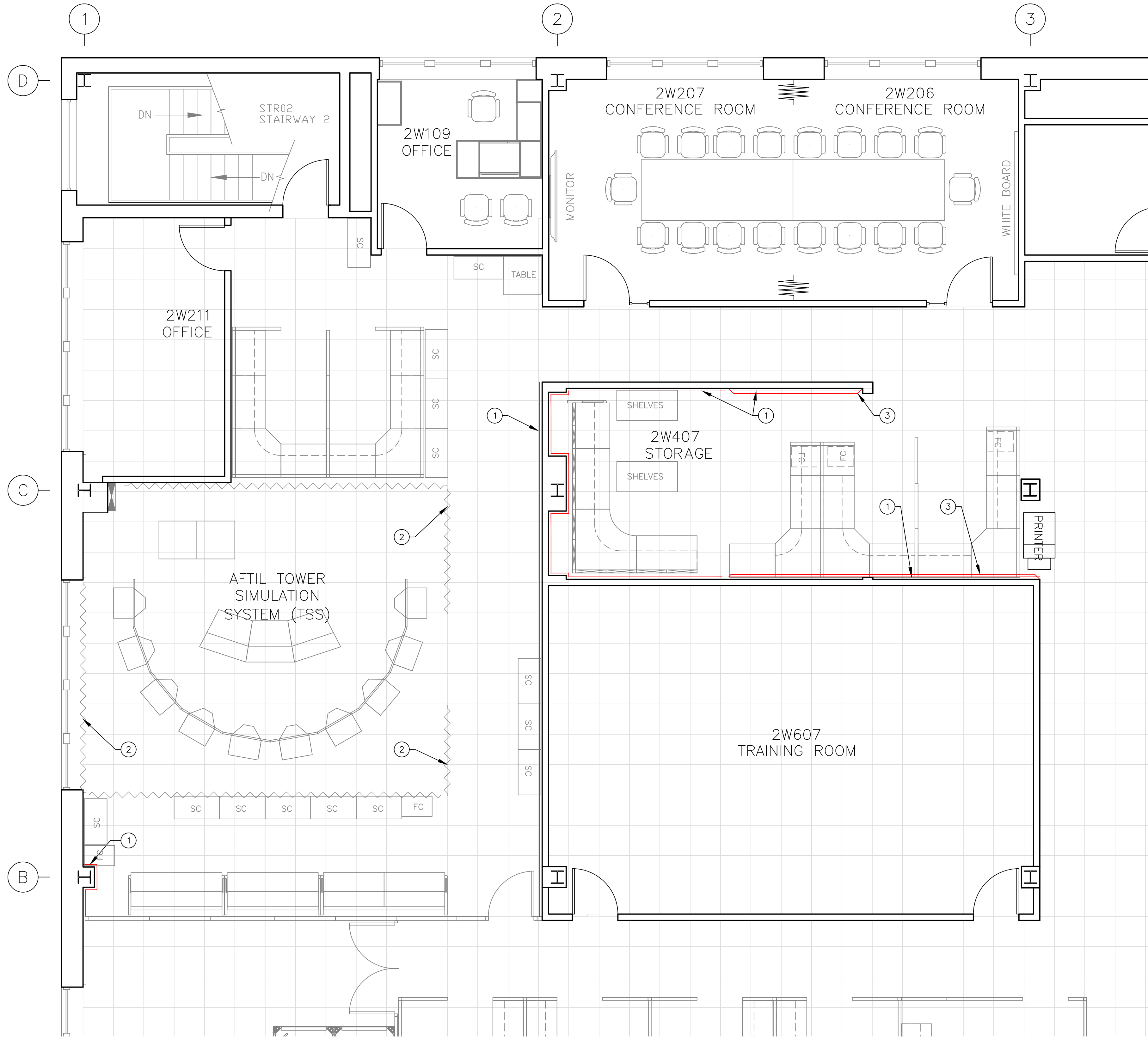
FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

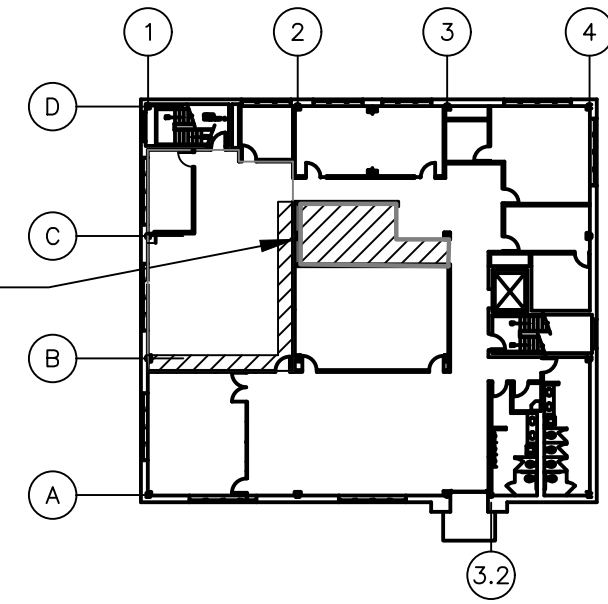
A	8/03/2026	REVISED AS PER FACILITIES COMMENTS	-	-
REV	DATE	DESCRIPTION	CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 COVER SHEET AFTIL				
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER		N.J.
FILE : 201209–PHASE 2 REV–B.dwg				
REVIEWED BY		SUBMITTED BY		APPROVED BY
-				
-				
-				
-				
-	DESIGN: C.MENCHIN	LE TRF: 10457	DATE: 07/07/2026	
-	DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.	SHEET 01 OF 27 REV.
-	CHECK: R.HAYES	FM WORK REQUEST #: -	201209–G000	A

PRINTED : 15:19 ON 06/26/26
DESIGNED : B.DANIELS
MODIFIED : 06/24/26 AT 15:13
WHO : Bruce A-GTR Daniels

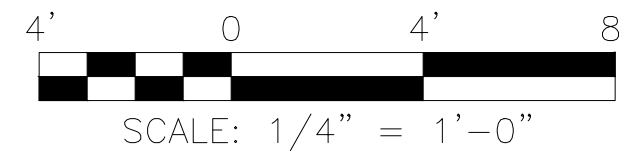
EQUIPMENT FLOOR PLAN BLDG. 27 - DEMOLITION
SCALE 1/4" = 1'-0"



PROJECT LOCATION



27-2 KEY PLAN



PROJECT NOTES

- 1 REMOVE PORTION OF EXISTING VINYL WALL BASE, PREP TO RECEIVE NEW BASE.
- 2 EXISTING CURTAIN AND TRACK TO REMAIN.
- 3 REMOVE EXISTING CHAIR RAIL TRIM AND WALL COVERING, PREP WALL TO RECEIVE NEW FINISHES.

GENERAL NOTES

1. LAB USER EQUIPMENT AND FURNITURE TO BE RELOCATED BY FAA AS NEED FOR CONSTRUCTION EFFORTS. LAB NEEDS TO REMAIN FUNCTIONAL AS MUCH AS POSSIBLE. PROVIDE TOR 2 WEEKS NOTICE IF EQUIPMENT OR FURNITURE NEEDS RELOCATION.

LEGEND

DEMO-UNLESS NOTED OTHERWISE

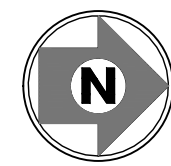
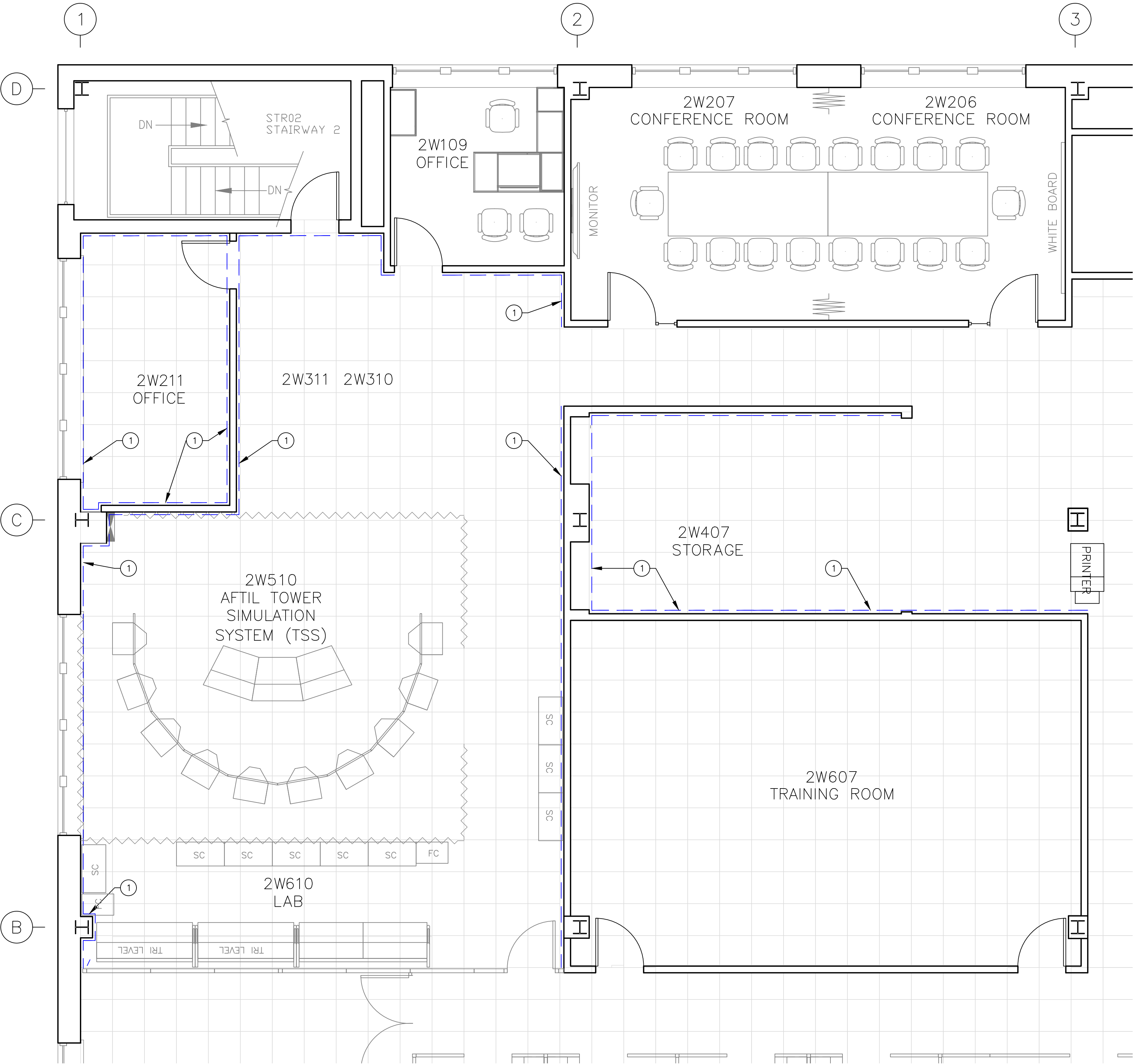
FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

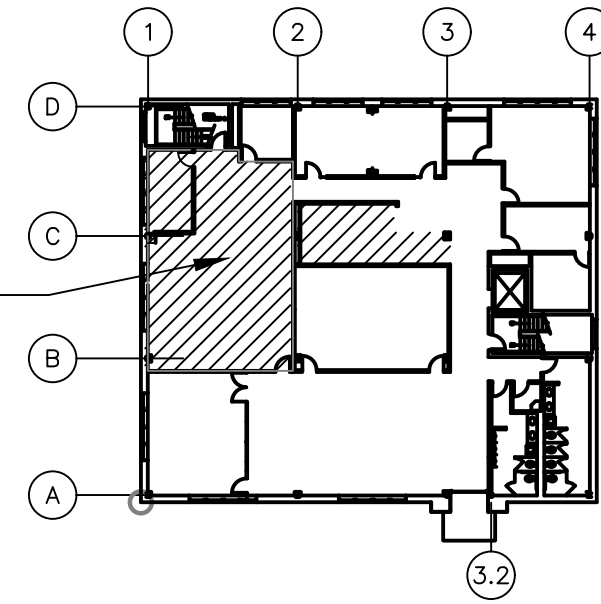
-	-	-	-	-
REV	DATE	DESCRIPTION	CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 EQUIPMENT FLOOR PLAN – DEMOLITION SECOND FLOOR – BUILDING 27-2				
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER		N.J.
FILE : 201209–PHASE 2 REV–B.dwg				
REVIEWED BY	SUBMITTED BY		APPROVED BY	
-				
-				
-	DESIGN: C.MENCHIN	LE TR#: 10457	DATE: 07/07/2026	
	DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.	SHEET 02 OF 27 REV.
	CHECK: R.HAYES	FM WORK REQUEST #:	201209–A100	-

PRINTED : 15:19 ON 06/26/26
DESIGNED : B.DANIELS
MODIFIED : 06/26/26 AT 15:19
WHO : Bruce A-GTR Daniels

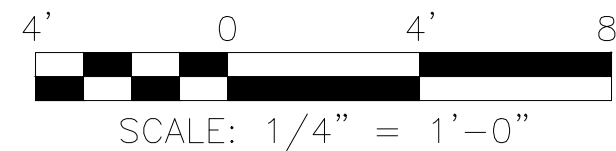
PARTITION WALL PLAN BLDG. 27 - NEW WORK
SCALE 1/4" = 1'-0"



PROJECT
LOCATION



27-2 KEY PLAN



PROJECT NOTES

1. PROVIDE NEW WALL FINISH THIS AREA (DOORS TO REMAIN UNPAINTED)
 - WALL FINISH PAINT, BENJAMIN MOORE, OC131 - WHITE DOWN, MATTE FINISH. SEMI-GLOSS FINISH FOR DOORS AND FRAMES
 - WALL BASE ROPPE, TOPE - 284 TRADITIONAL VINYL BASE WITH TOE PROFILE (1/16" THICKNESS), COLOR - ALMOND

GENERAL NOTES

1. ALL FURNITURE (IN BLACK) TO BE RELOCATED.
2. LAB USER EQUIPMENT AND FURNITURE TO BE RELOCATED BY FAA AS NEED FOR CONSTRUCTION EFFORTS. LAB NEEDS TO REMAIN FUNCTIONAL AS MUCH AS POSSIBLE. PROVIDE TOR 2 WEEKS NOTICE IF EQUIPMENT OR FURNITURE NEEDS RELOCATION.

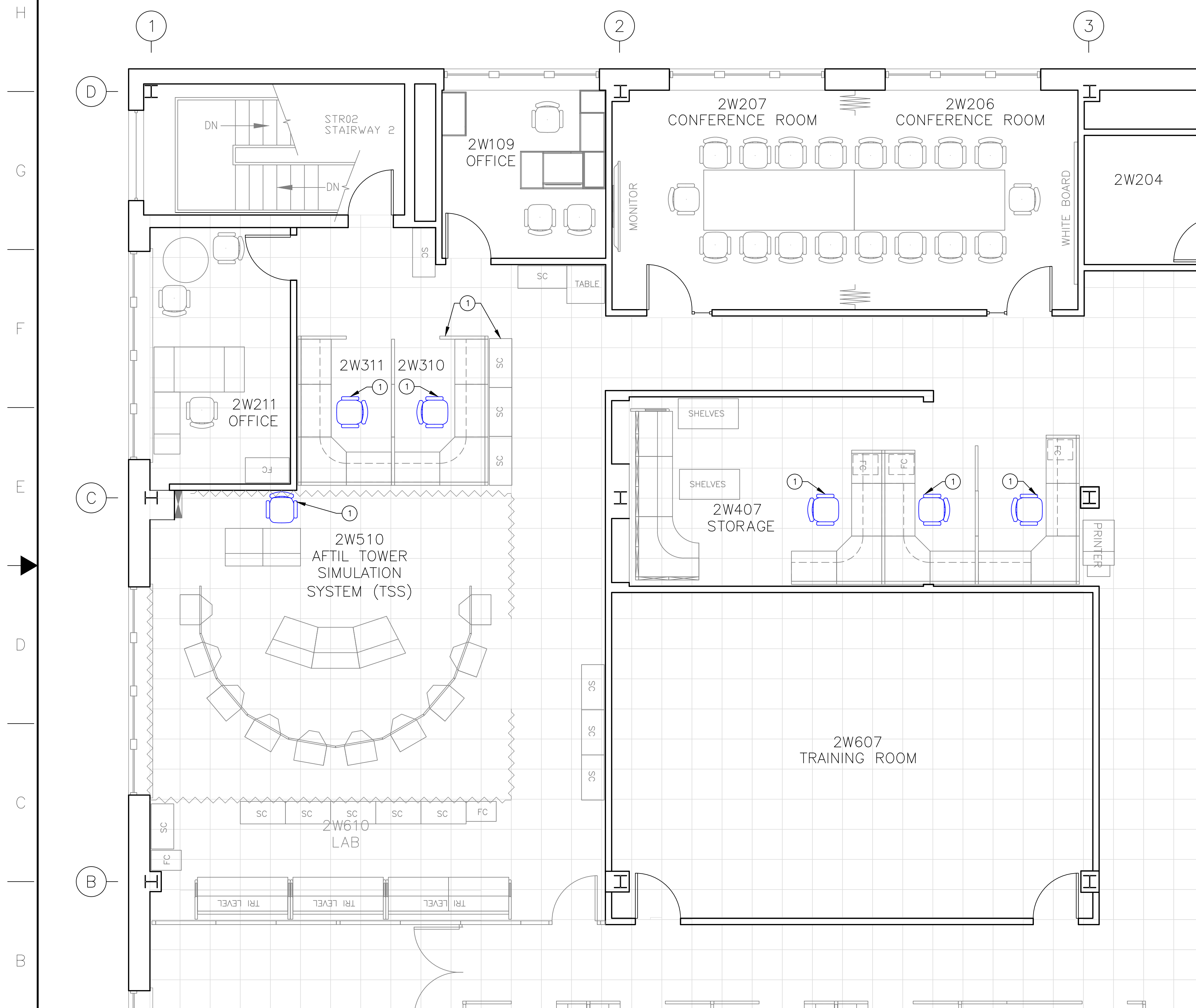
LEGEND

NEW WORK

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-	-		-	-
REV	DATE	DESCRIPTION		CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 PARTITION WALL PLAN - NEW WORK SECOND FLOOR - BUILDING 27-2					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
-					
-					
-					
	DESIGN: C.MENCHIN	LE TRF#: 10457	DATE: 07/07/2026		
	DRAWN: B.DANIELS	PM ORDER#: N/A	DRAWING NO. SHEET 03 OF 27 REV.		
	CHECK: R.HAYES	PM WORK REQUEST #: -	201209-A101		-



EQUIPMENT FLOOR PLAN BLDG. 27 - NEW WORK

- ## LAB CHAIR NOTES

BASIS OF DESIGN:

1. MANUFACTURER: SIT-ON-IT
2. MODEL: NOVO - PROVIDE (6) CHAIRS

FINISHES:

- FRAME COLOR – BLACK
- MESH COLOR – ONYX (GRADE 2)
- LUMBAR COLOR – BLACK
- LUMBAR ACCENT COLOR – ONYX
- BASE COLOR – BLACK NYLON
- TEXTILE – ELEMENT CHARCOAL (GRADE 2)
- BACK HEIGHT – MIDBACK
- ARM TYPE – HEIGHT AND WIDTH ADJUSTABLE (MULTI ADJUSTABLE)
- MECHANISM TYPE – SYNCHRO TILT MECHANISM WITH SEAT DEPTH ADJUSTMENT
- CYLINDER HEIGHT – STANDARD CYLINDER
- CASTER TYPE – CARPET CASTER
- PACKAGING – KNOCKED DOWN

3. PROVIDE UN-CRATING AND INSTALLATION OF CHAIRS AS WELL AS THE REMOVAL OF ALL TRASH

PROJECT NOTES

- ① PROCURE AND PROVIDE (6) SIT-ON-IT CHAIRS PER LAB CHAIR NOTES.

GENERAL NOTES

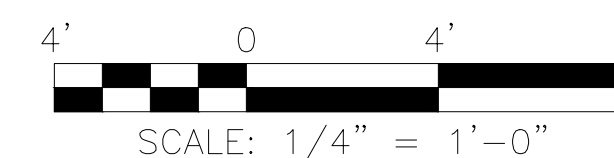
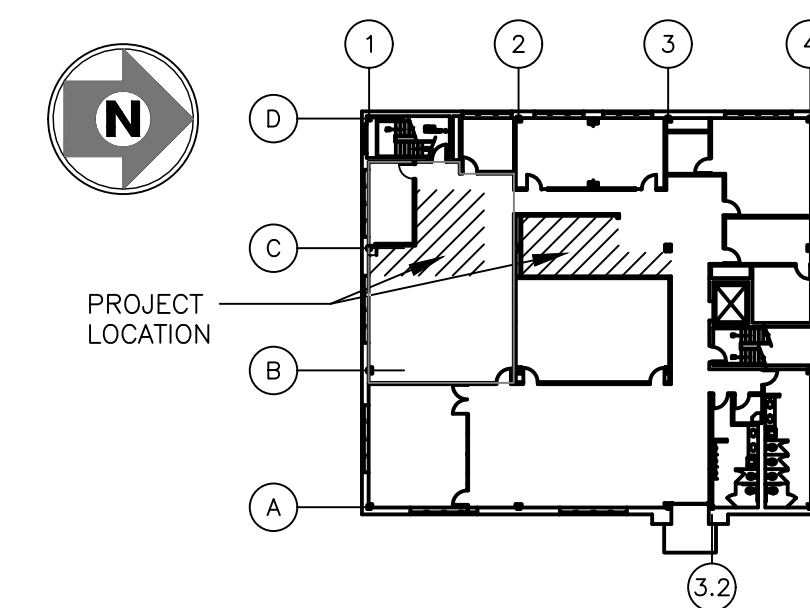
1. ALL FURNITURE (IN BLACK) TO BE RELOCATED.
2. LAB USER EQUIPMENT AND FURNITURE TO BE RELOCATED BY FAA AS NEED FOR CONSTRUCTION EFFORTS. LAB NEEDS TO REMAIN FUNCTIONAL AS MUCH AS POSSIBLE. PROVIDE TOR 2 WEEKS NOTICE IF EQUIPMENT OR FURNITURE NEEDS RELOCATION.

LEGEND

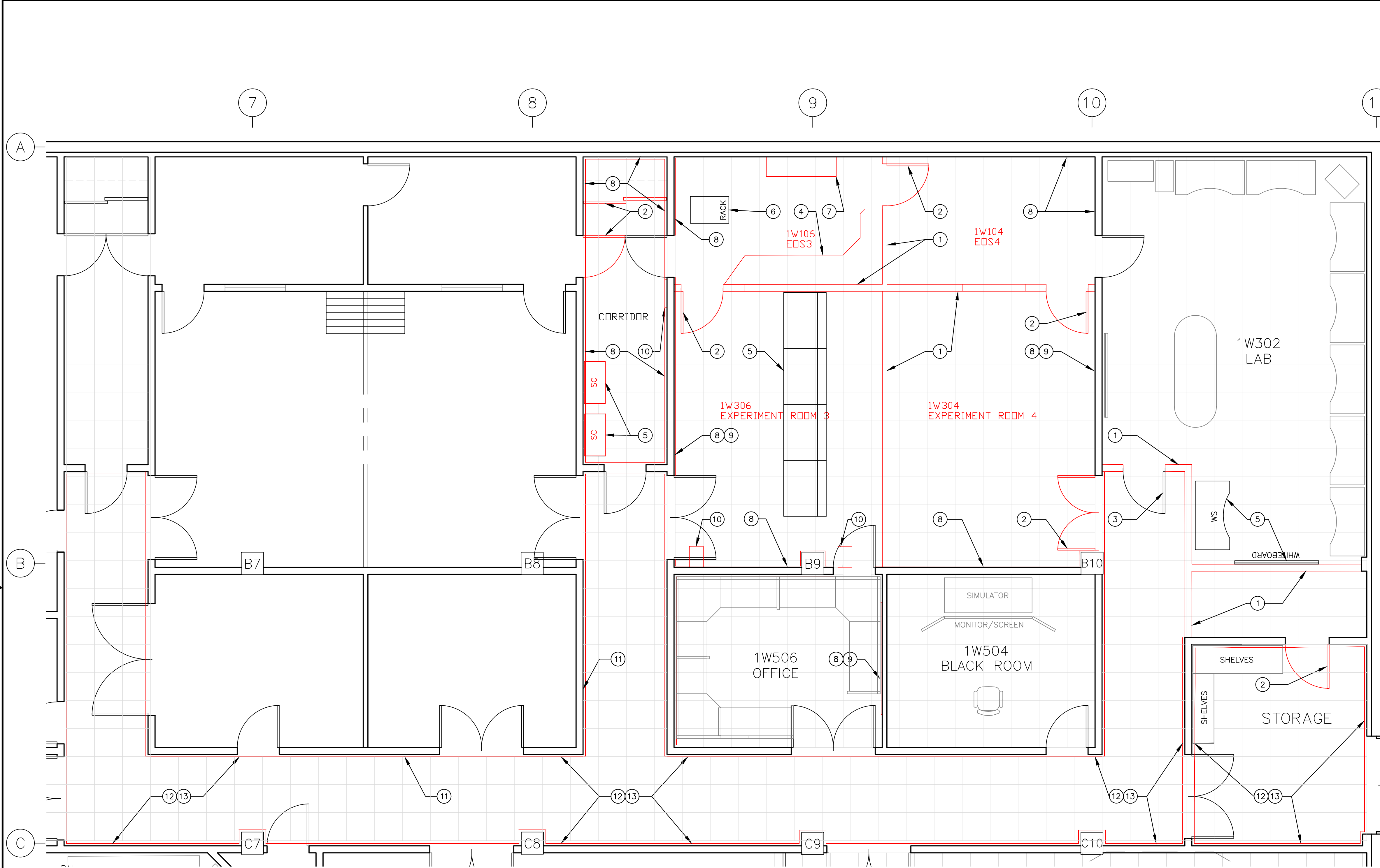
NEW WORK

FOR OFFICIAL USE ONLY

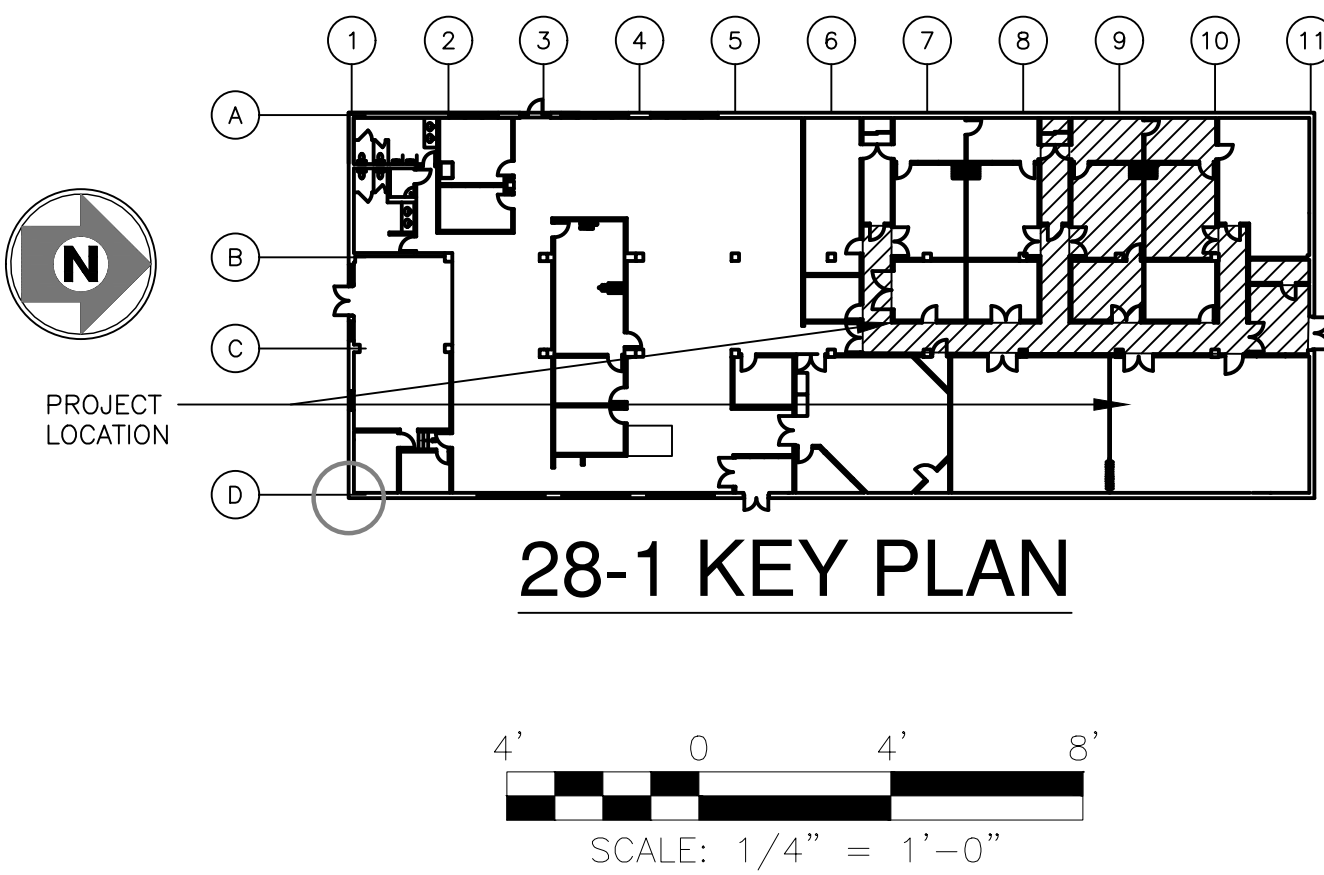
PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552



-	-	-		-	-
REV	DATE	DESCRIPTION			CHECK APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 EQUIPMENT FLOOR PLAN - NEW WORK SECOND FLOOR - BUILDING 27-2					
POMONA	WILLIAM J. HUGHES TECHNICAL CENTER				N.J.
FILE : 201209--PHASE 2 REV-B.dwg					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
-					
-					
-					
DESIGN:	C.MENCHIN	LE TR#: 10457	DATE: 07/07/2026		
DRAWN:	D.DANIELS	FM ORDER#: N/A	DRAWING NO.		
CHECK:	R.HAYES	FM WORK REQUEST #:	201209-A102		
			SHEET 04 OF 27		
			REV.		



EQUIPMENT FLOOR PLAN BLDG. 28 - DEMOLITION
SCALE 1/4" = 1'-0"



PROJECT NOTES

- 1 REMOVE EXISTING WALL IN ITS ENTIRETY, PATCH REMAINING CONSTRUCTION AS NECESSARY.
- 2 REMOVE AND DISPOSE OF EXISTING DOOR AND FRAME.
- 3 RELOCATE EXISTING DOOR AND FRAME.
- 4 EXISTING FURNITURE TO BE REMOVED.
- 5 EXISTING FURNITURE RELOCATED BY LAB USER, COORDINATE WITH FAA POC.
- 6 EXISTING RACK TO BE RELOCATED BY LAB USER.
- 7 REMOVE AND DISPOSE OF EXISTING WALL MOUNTED SHELF TO BE REMOVED.
- 8 REMOVE PORTION OF EXISTING VINYL WALL BASE, PREP TO RECEIVE NEW WALL BASE.
- 9 REMOVE EXISTING WALL MOUNTED TACKABLE SURFACES.
- 10 EXISTING WALL MOUNTED EQUIPMENT TO BE REMOVED BY LAB USER.
- 11 REMOVE EXISTING VINYL WALL COVERING, SKIM COAT AND PREP SURFACE TO RECEIVE PAINT FINISH.
- 12 REMOVE WOOD WALL TRIM THROUGHOUT CORRIDOR, PATCH WALLS AS NEEDED.
- 13 REMOVE EXISTING WALL BASE THROUGHOUT CORRIDOR, SAVE 30 FEET OF MATERIAL FOR REUSE, SEE A104; PREP SURFACE FOR NEW BASE FINISH.

GENERAL NOTES

- 1. FURNITURE AND EQUIPMENT (IN BLACK) TO BE RELOCATED.
- 2. LAB USER EQUIPMENT AND FURNITURE TO BE RELOCATED BY FAA AS NEED FOR CONSTRUCTION EFFORTS. LAB NEEDS TO REMAIN FUNCTIONAL AS MUCH AS POSSIBLE. PROVIDE TOR 2 WEEKS NOTICE IF EQUIPMENT OR FURNITURE NEEDS RELOCATION.

LEGEND

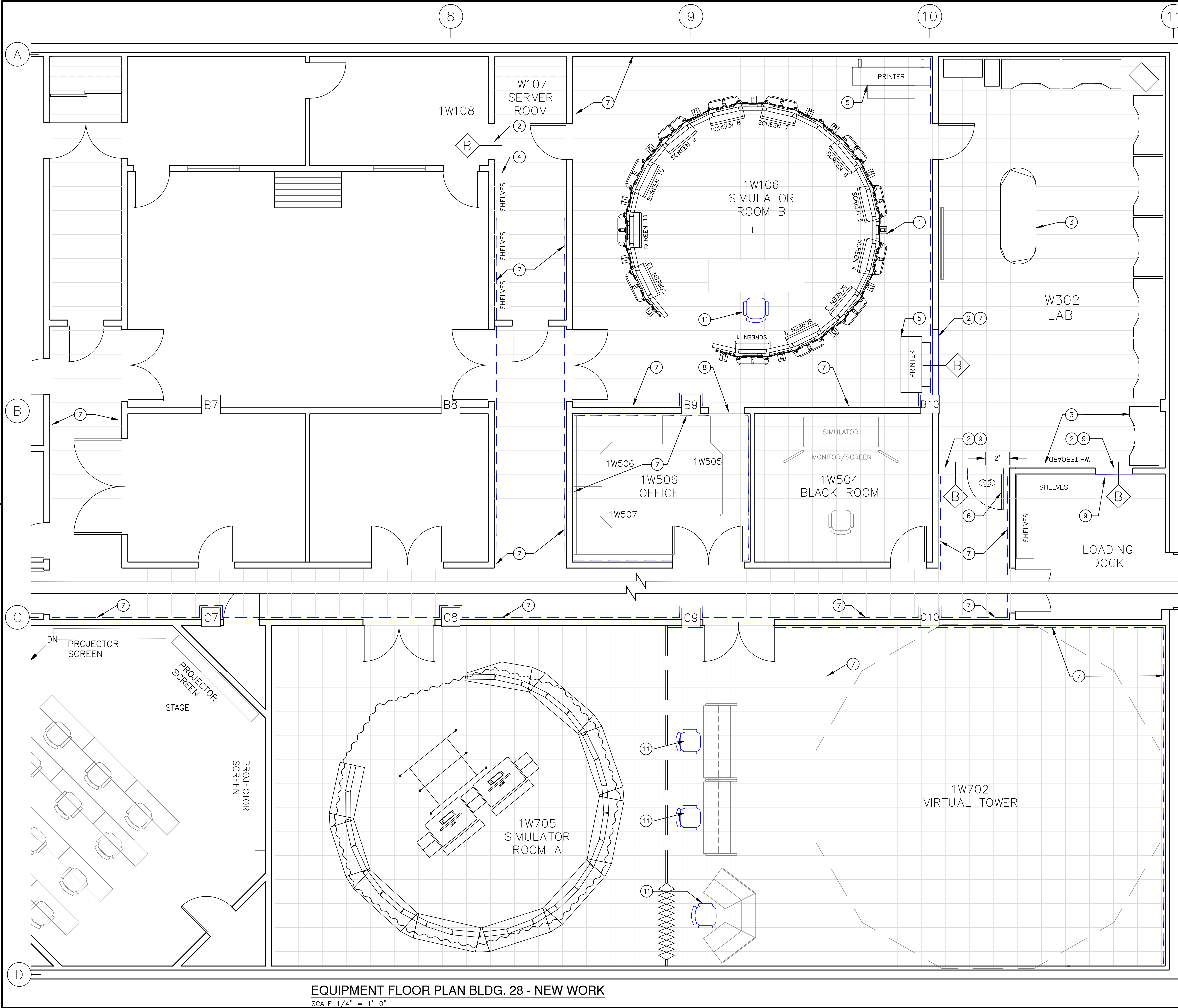
DEMO-UNLESS NOTED OTHERWISE

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-	-		-	-
REV	DATE	DESCRIPTION			CHECK APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 EQUIPMENT FLOOR PLAN - DEMOLITION FIRST FLOOR - BUILDING 28-1					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
	-				
	-				
	-				
	-	DESIGN: C.MENCHIN	LE TRF#: 10457	DATE: 07/07/2026	
	-	DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO. SHEET 05 OF 27 REV.	
	-	CHECK: R.HAYES	FM WORK REQUEST #: -	201209-A103 -	

PRINTED : 15:20 ON 08/26/26
MODIFIED : 08/26/26 AT 15:15
WHO : Bruce A-GTR Daniels



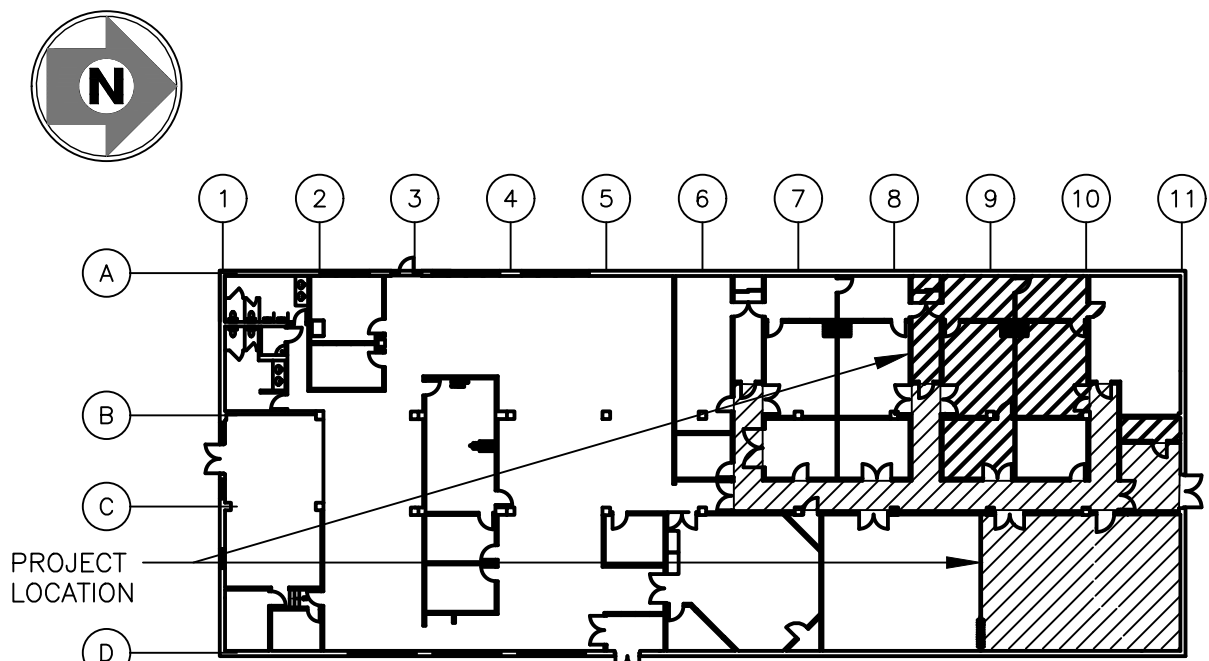
EQUIPMENT FLOOR PLAN BLDG. 28 - NEW WORK
SCALE: 1/4" = 1'-0"

PROJECT NOTES

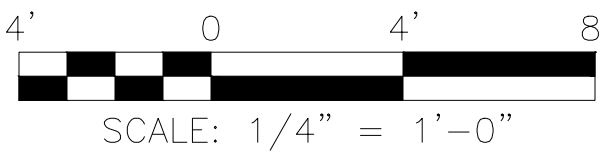
- 1 TOWER SIMULATOR SYSTEM AND FURNITURE TO BE INSTALLED BY BY CUSTOMER
- 2 INFILL EXISTING WALL OPENING.
- 3 EXISTING FURNITURE AND EQUIPMENT RELOCATED BY LAB USER, COORDINATE WITH FAA POC.
- 4 EXISTING SHELVES TO BE RELOCATED BY CUSTOMER FROM BUILDING 170, TYP. OF (3)
- 5 PRINTERS TO BE INSTALLED BY CUSTOMER, TYP. OF (2)
- 6 EXISTING DOOR AND FRAME AS RELOCATED.
- 7 PROVIDE NEW WALL FINISH THIS AREA (DOORS TO REMAIN UNPAINTED)
 - WALL FINISH PAINT, BENJAMIN MOORE, OC131 - WHITE DOWN, MATTE FINISH.
 - SEMI-GLOSS FINISH FOR DOORS AND FRAMES
 - WALL BASE ROPPE, TOPE - 284- TRADITIONAL VINYL BASE WITH TOE PROFILE (1/16" THICKNESS), COLOR - ALMOND
- 8 PROVIDE SIGNAGE "NOT AN EXIT".
- 9 REUSE EXISTING WALL BASE SALVAGED FROM CORRIDOR DEMOLITION.
- 10 EXTERIOR FACE OF DOOR WILL NOT BE PAINTED.
- 11 PROCURE AND PROVIDE (4) SIT-ON-IT CHAIRS PER CHAIR NOTE.

GENERAL NOTES

1. FURNITURE AND EQUIPMENT (IN BLACK) TO BE RELOCATED.
2. LAB USER EQUIPMENT AND FURNITURE TO BE RELOCATED BY FAA AS NEED FOR CONSTRUCTION EFFORTS. LAB NEEDS TO REMAIN FUNCTIONAL AS MUCH AS POSSIBLE. PROVIDE TOR 2 WEEKS NOTICE IF EQUIPMENT OR FURNITURE NEEDS RELOCATION.



28-1 KEY PLAN



LEGEND

NEW WORK

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

REV	DATE	DESCRIPTION	CHECK	APVD	
-	-	-	-	-	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 EQUIPMENT FLOOR PLAN - NEW WORK FIRST FLOOR - BUILDING 28-1					
POMONA WILLIAM J. HUGHES TECHNICAL CENTER N.J.					
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
-					
-					
-	DESIGN: C.MENCHIN	LE TRF#: 10457	DATE: 07/07/2026		
-	DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.	SHEET 08 OF 27	REV.
-	CHECK: R.HAYES	FM WORK REQUEST #:	201209-A104		-

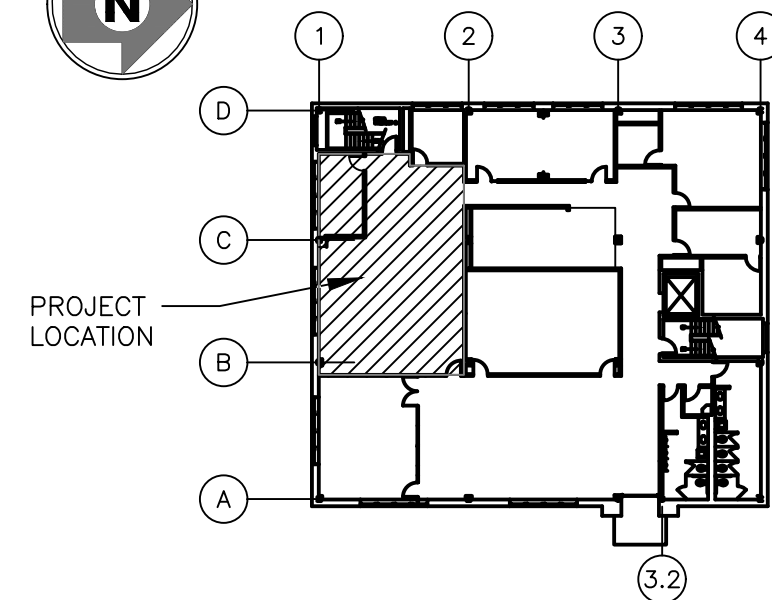
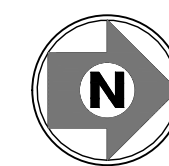
PRINTED : 15:20 ON 06/26/26
PLOTTER : HP DesignJet T1130
MODIFIED : 06/26/26 AT 15:13
WHO : Bruce A-GTR Daniels

REFLECTED CEILING PLAN BLDG. 27 - DEMOLITION
SCALE 1/4" = 1'-0"

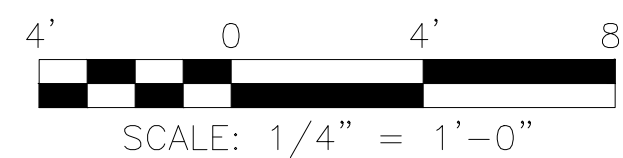
REFLECTED CEILING PLAN BLDG. 27 - NEW WORK
SCALE 1/4" = 1'-0"

CEILING LEGEND

- 2'x 2' CEILING GRID AND TILE
- AIR SUPPLY DUCT
- AIR SUPPLY VENT
- 2'x 2' LED LIGHT FIXTURE
- 2'x 2' LED LIGHT FIXTURE (EMERGENCY)
- 2'x 4' LED LIGHT FIXTURE
- SPRINKLER
- FA SPEAKER
- PHOTOELECTRIC SMOKE DETECTOR
- OCCUPANCY SENSOR
- EXIT SIGNS
- SPEAKER-CEILING MOUNT WHITE
- SPEAKER-STROBE-CEILING MOUNT WHITE
- WIFI EQUIPMENT



27-2 KEY PLAN



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

PROJECT NOTES

- PROVIDE AND INSTALL EMERGENCY LIGHT FIXTURES. TYPICAL OF (8)
- REMOVE EXISTING 2'X4' LIGHT FIXTURES, TYPICAL OF (15).
- REMOVE EXISTING EXIT SIGN TYPICAL OF (4)
- EXISTING FIRE ALARM DEVICES TO REMAIN.
- EXISTING WI-FI DEVICE TO BE RELOCATED IN NEW CEILING.
- PROVIDE NEW WIFI DEVICE.
- PROVIDE AND INSTALL 2'X2' DIMMABLE LED LIGHT FIXTURES. TYPICAL OF (19)
- PROVIDE AND INSTALL LED EXIT SIGNS AS SHOWN. TYPICAL OF (4)
- PROVIDE NEW ACOUSTICAL CEILING TILES AND TRACK TO MATCH EXISTING (IN BLUE) TYPICAL OF (27)
- REMOVE EXISTING WALL MOUNTED SCREEN.
- EXISTING SPEAKER-STROBE TO BE RELOCATED.

GENERAL NOTES

- LIGHTING AND OTHER CEILING FIXTURES SHOWN FOR COORDINATION, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE TEMPORARY LIGHTING CONSISTING OF LED LAMPS RATED AT A MINIMUM OF 1600 LUMENS PER LAMP, INSTALLED ON TEMPORARY LIGHTING STRINGERS WITH LAMP HOLDERS SPACED APPROXIMATELY 10'-0" O.C., PRIOR TO DEMOLITION OF THE EXISTING LIGHT FIXTURES.
- PROPERLY DISPOSE OF ALL DEMOLISHED MATERIALS SHOWN IN THIS DRAWING.
- PROVIDE NEW ACOUSTICAL CEILING TILES & TRACK, LIGHTING FIXTURES, ETC. (IN BLUE)
- THE PROPOSED CEILING WILL BE INSTALLED ABOVE ACTIVE WORK AREAS. PROTECT ALL WORK AREAS AND EQUIPMENT AT AND AROUND THE PROPOSED PROJECT FROM DUST AND DEBRIS. ALL FLOORS, WORKSURFACES, EQUIPMENT, ETC. ARE TO BE THOROUGHLY CLEANED DURING AND AT THE COMPLETION OF THE PROJECT.

LEGEND

- DEMO-UNLESS NOTED OTHERWISE
- NEW WORK

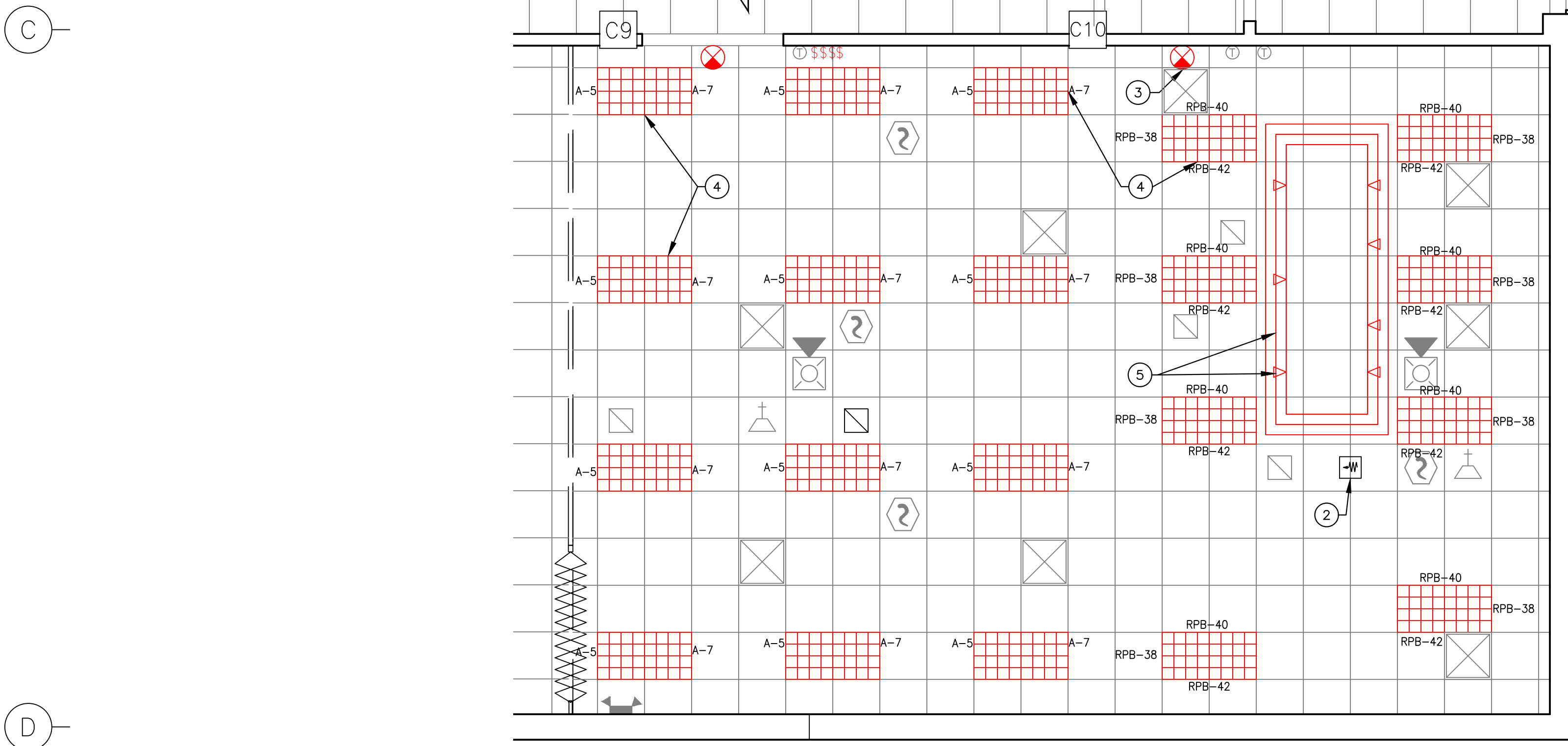
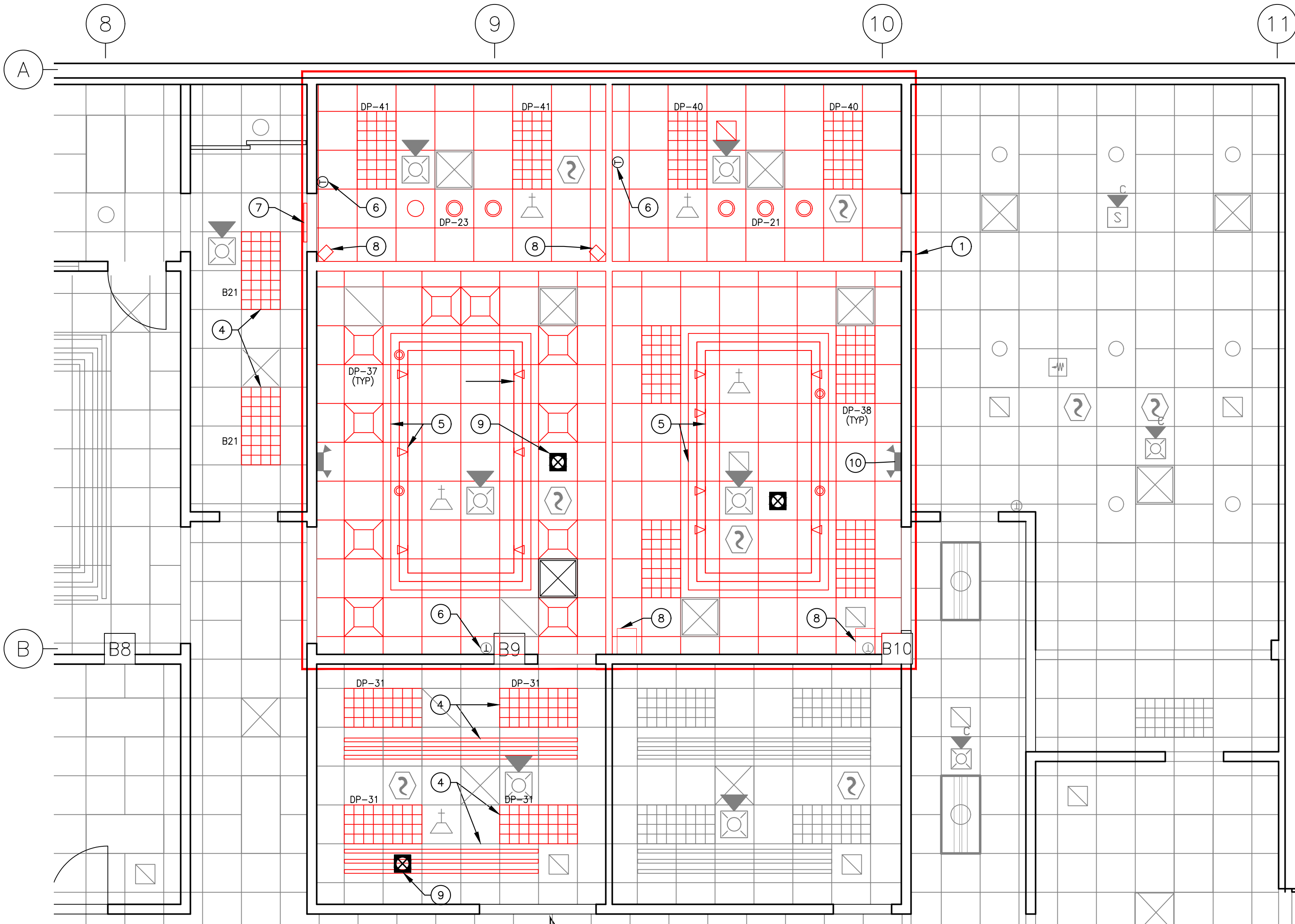
FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-	-		-	-
REV	DATE	DESCRIPTION			CHECK APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 REFLECTED CEILING PLANS SECOND FLOOR - BUILDING 27-2					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
-					
-					
-					
DESIGN: C.MENCHIN		LE TRF-10457		DATE: 07/07/2026	
DRAWN: B.DANIELS		FM ORDER#: N/A		DRAWING NO. SHEET 07 OF 27 REV.	
CHECK: M.KORZEN		FM WORK REQUEST #:		201209-A105	
				-	

PRINTED : 15:20 ON 08/26/26
DESIGNED : B.DANIELS
MODIFIED : 08/26/26 AT 15:15
WHO : Bruce A-GTR Daniels

REFLECTED CEILING PLAN BLDG. 28 - DEMOLITION
SCALE 1/4" = 1'-0"



CEILING LEGEND

- 2'x 2" CEILING GRID AND TILE
- AIR SUPPLY DUCT
- AIR SUPPLY VENT
- 2'x 2" LED LIGHT FIXTURE
- 2'x 4' LED LIGHT FIXTURE
- SPRINKLER
- FA SPEAKER
- PHOTOELECTRIC SMOKE DETECTOR
- OCCUPANCY SENSOR
- EXIT SIGNS
- SPEAKER-CEILING MOUNT WHITE
- SPEAKER-STROBE-CEILING MOUNT WHITE
- WIFI EQUIPMENT
- EMERGENCY FLOOD LIGHT FIXTURE

PROJECT NOTES

- REMOVE EXISTING ACT CEILING IN ITS ENTIRETY. IN THIS AREA INCLUDING ALL LIGHT FIXTURES, LIGHTING TRACK, POWER STRIPS, DIFFUSERS, & (U.N.O.) PA SPEAKERS & FIRE ALARM DEVICES (U.N.O.). EXISTING FIXTURES (IN BLACK) TO BE RELOCATED.
- EXISTING WI-FI UNIT TO BE REMOVED AND REINSTALLED IN NEW CEILING.
- EXISTING EXIT SIGNS TO BE REMOVED TYPICAL OF (2)
- REMOVE EXISTING 2'X4' LIGHT FIXTURES.
- REMOVE EXISTING TRACK LIGHTING SYSTEM INCLUDING POWER STRIPS.
- EXISTING THERMOSTAT TO BE REMOVED OR RELOCATED, SEE MECH. DRAWING
- EXISTING WALL MOUNTED EQUIPMENT TO BE REMOVED BY OTHERS.
- REMOVE EXISTING WALL MOUNTED SPEAKERS.
- RELOCATE EXISTING OCCUPANCY SENSOR.
- EXISTING WALL MOUNTED EXIT LIGHTS TO REMAIN.

GENERAL NOTES

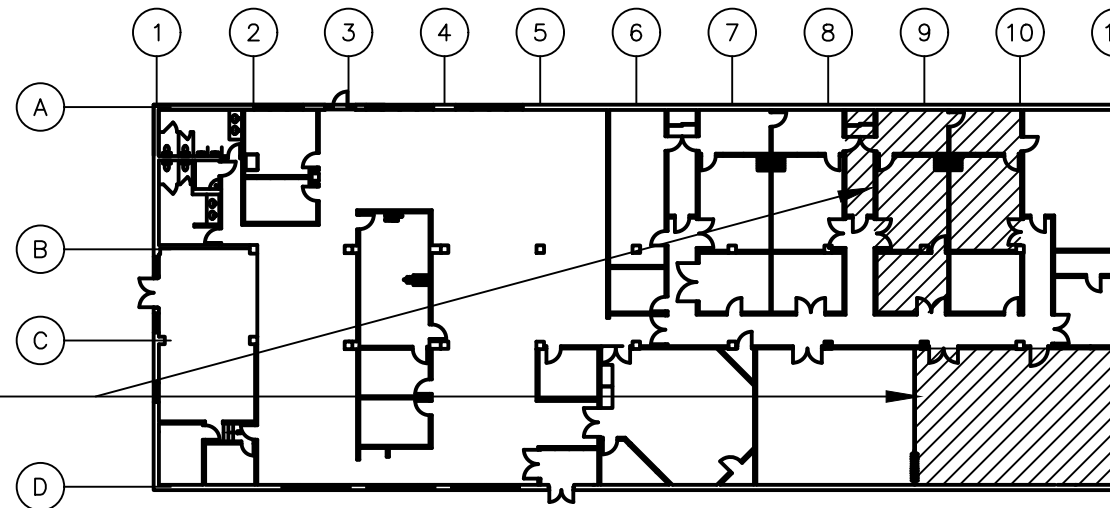
- LIGHTING AND OTHER CEILING FIXTURES SHOWN FOR COORDINATION, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- UNLESS NOTED OTHERWISE, ACOUSTICAL CEILING TILES & TRACK, LIGHTING FIXTURES, DIFFUSERS, ETC. (IN RED) TO BE REMOVED IN THEIR ENTIRETY.
- THE PROPOSED CEILING WILL BE INSTALLED ABOVE ACTIVE WORK AREAS. PROTECT ALL WORK AREAS AND EQUIPMENT AT AND AROUND THE PROPOSED PROJECT FROM DUST AND DEBRIS. ALL FLOORS, WORK SURFACES, EQUIPMENT, ETC. ARE TO BE THOROUGHLY CLEANED AT THE END OF EACH WORK DAY AND AT THE COMPLETION OF THE PROJECT.
- PROPERLY DISPOSE OF ALL DEMOLISHED MATERIALS SHOWN IN THIS DRAWING.
- PROVIDE TEMPORARY LIGHTING CONSISTING OF LED LAMPS RATED AT A MINIMUM OF 1600 LUMENS PER LAMP, INSTALLED ON TEMPORARY LIGHTING STRINGERS WITH LAMP HOLDERS SPACED APPROXIMATELY 10'-0" O.C., PRIOR TO DEMOLITION OF THE EXISTING LIGHT FIXTURES.
- SALVAGE EXISTING CEILING TILE SCHEDULED FOR REMOVAL FOR USE IN VITURAL TOWER CEILING.

LEGEND

DEMO-UNLESS NOTED OTHERWISE

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

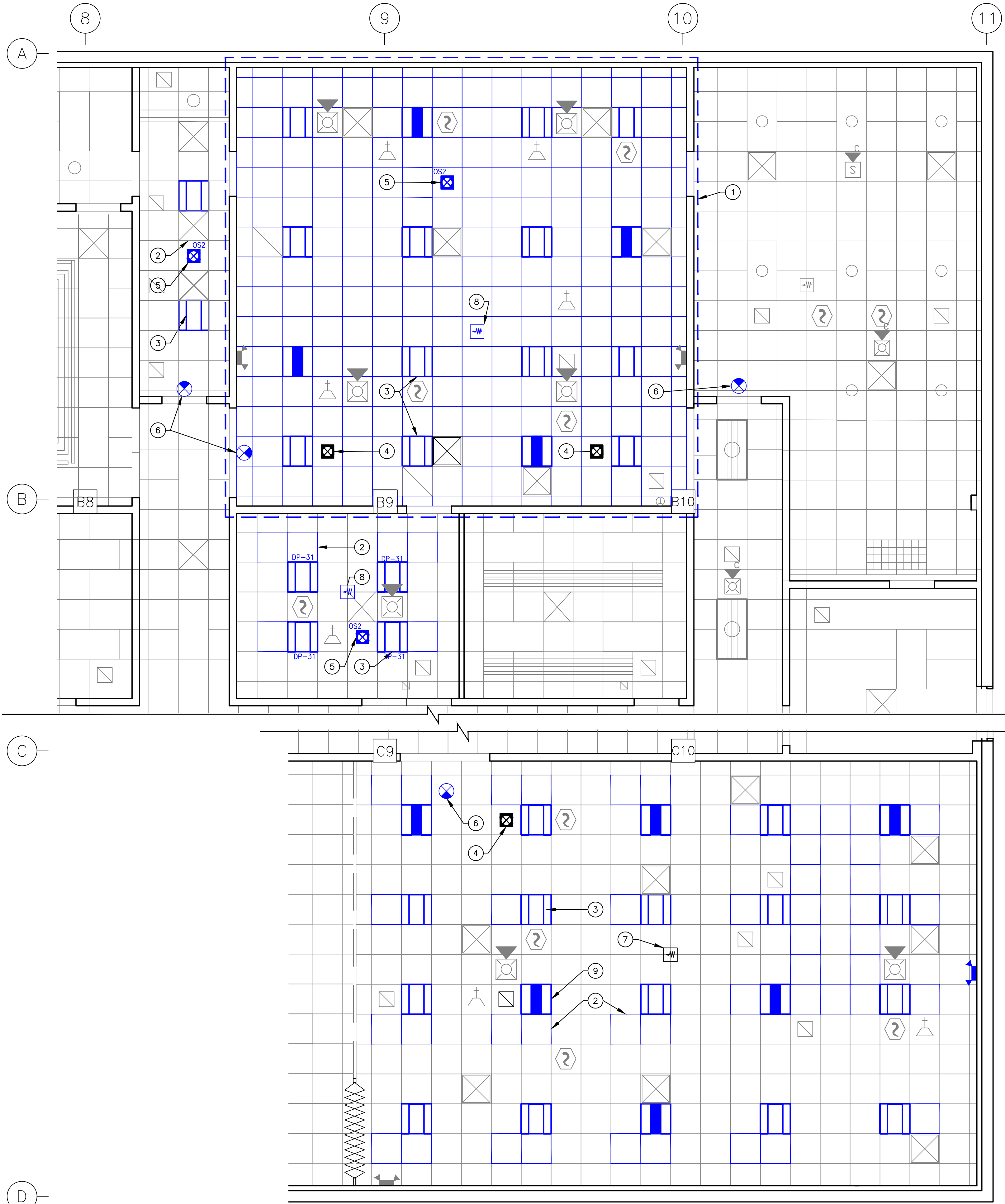


28-1 KEY PLAN

4' 0 4' 8'
SCALE: 1/4" = 1'-0"

-	-	-	-	-
REV	DATE	DESCRIPTION	CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 REFLECTED CEILING PLAN – DEMOLITION FIRST FLOOR – BUILDING 28-1				
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER		N.J.
FILE : 201209-PHASE 2 REV-B.dwg				
REVIEWED BY	SUBMITTED BY		APPROVED BY	
-				
-				
-	DESIGN: C.MENCHIN	LE TRF: 10457	DATE: 07/07/2026	
	DRAWN: B.DANIELS	FM ORDER: N/A	DRAWING NO.	SHEET 08 OF 27
	CHECK: M.KORZEN	FM WORK REQUEST #:	201209-A106	REV. -

PRINTED : 15:20 ON 08/26/26
MODIFIED : 08/26/26 AT 15:15
WHO : Bruce A-GTR Daniels



REFLECTED CEILING PLAN BLDG. 28 - NEW WORK
SCALE 1/4" = 1'-0"

CEILING LEGEND

- 2'x 2' CEILING GRID AND TILE
- AIR SUPPLY DUCT
- AIR SUPPLY VENT
- 2'x 2' LED LIGHT FIXTURE
- 2'x 2' LED LIGHT FIXTURE (EMERGENCY)
- 2'x 4' LED LIGHT FIXTURE
- SPRINKLER
- FA SPEAKER
- PHOTOELECTRIC SMOKE DETECTOR
- OCCUPANCY SENSOR
- EXIT SIGNS
- SPEAKER-CEILING MOUNT WHITE
- SPEAKER-STROBE-CEILING MOUNT WHITE
- WIFI EQUIPMENT
- OCCUPANCY SENSOR CM-PDT-9-R-ADC OS4
- TWO HEAD EMERGENCY LIGHT FIXTURE F5 or F14

PROJECT NOTES

- PROVIDE NEW ACOUSTICAL CEILING TILES AND TRACK. (SEE GENERAL NOTE #3)
- PROVIDE CEILING TILES AND TRACK. ACT TO MATCH EXISTING, USE MATERIAL RECOVERED FROM DEMOLITION, TYP. OF (52)
- PROVIDE AND INSTALL 2'X2' DIMMABLE LED LIGHT FIXTURES. TYP. (31)
- OCCUPANCY SENSORS AS RELOCATED, TYPICAL OF (3)
- PROVIDE AND INSTALL OCCUPANCY SENSORS, TYPICAL OF (3)
- PROVIDE AND INSTALL EXIT SIGNS, TYPICAL OF (5)
- EXISTING WI-FI DEVICE TO BE REINSTALLED IN NEW CEILING.
- PROVIDE AND INSTALL NEW WI-FI DEVICE, TYPICAL OF (2)
- PROVIDE AND INSTALL 2'X2' EMERGENCY LIGHT FIXTURES. TYPICAL OF (10)

GENERAL NOTES

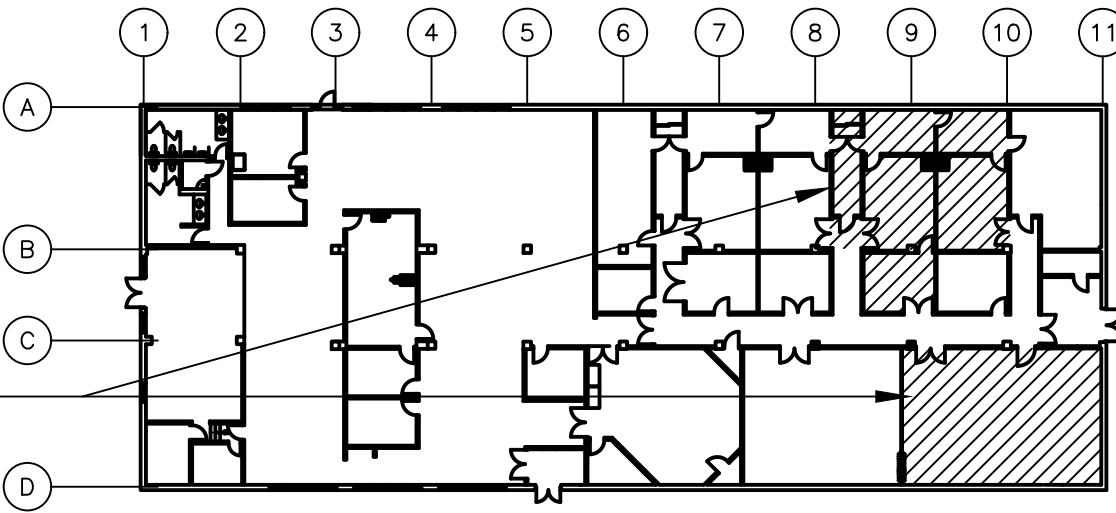
- LIGHTING AND OTHER CEILING FIXTURES SHOWN FOR COORDINATION, SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW ACOUSTICAL CEILING TILES & TRACK, LIGHTING FIXTURES, ETC. (IN BLUE)
- ACT SPEC:
ARMSTRONG OPTIMA OPEN PLAN #3152, 24" X 24" X 1", SQUARE LAY-IN CEILING TILES & PRELUDE ML 15/16" EXPOSED TEE OR APPROVED EQUAL.
- TOTAL AREA OF CEILING REPLACEMENT APPROXIMATELY 3,260 SF.
- THE PROPOSED CEILING WILL BE INSTALLED ABOVE ACTIVE WORK AREAS. PROTECT ALL WORK AREAS AND EQUIPMENT AT AND AROUND THE PROPOSED PROJECT FROM DUST AND DEBRIS. ALL FLOORS, WORKSURFACES, EQUIPMENT, ETC. ARE TO BE THOROUGHLY CLEANED DURING AND AT THE COMPLETION OF THE PROJECT.
- THE CEILING HEIGHT IS TO BE AT 10'-6" ABOVE FINISHED FLOOR (AFF). (FIELD VERIFY)

LEGEND

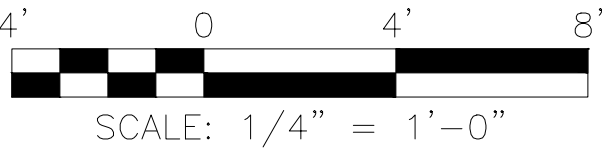
NEW WORK

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552



28-1 KEY PLAN



-	-	-		-	-
REV	DATE	DESCRIPTION			CHECK APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 REFLECTED CEILING PLAN - NEW WORK FIRST FLOOR - BUILDING 28-1					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
-					
-					
-					
-		DESIGN: C.MENCHIN	LE TR#: 10457	DATE: 07/07/2026	
		DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.	
		CHECK: R.HAYES	FM WORK REQUEST #: -	201209-A107	
				SHEET 09 OF 27	
				REV.	

PRINTED : 15:20 ON 08/26/26
DESIGNED : B.DANIELS
MODIFIED : 08/24/26 AT 15:13
WHO : Bruce A-CFR Daniels

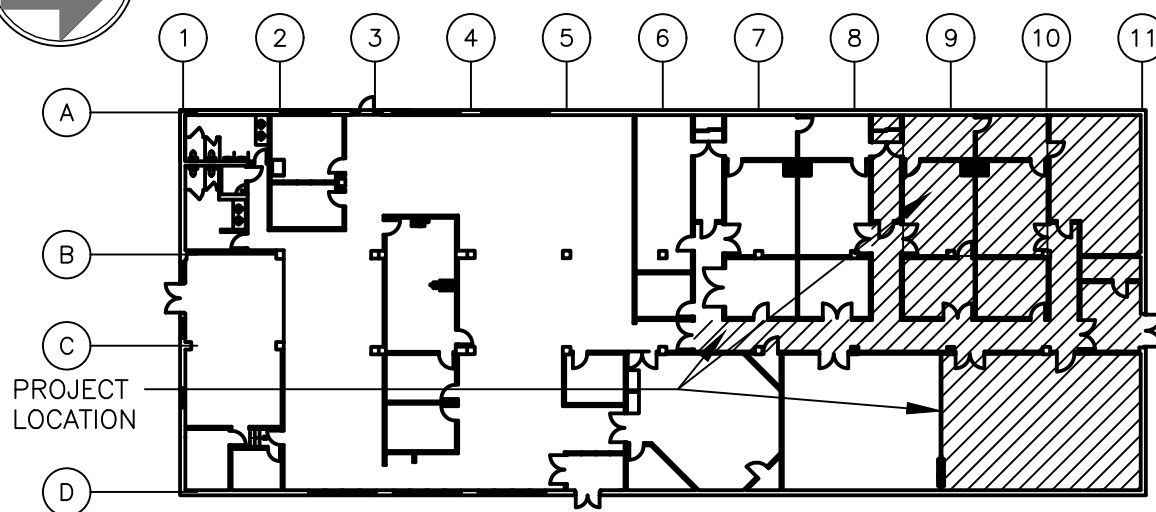
RAISED FLOOR PLAN BLDG. 28 - DEMOLITION
SCALE 1/4" = 1'-0"

PROJECT NOTES

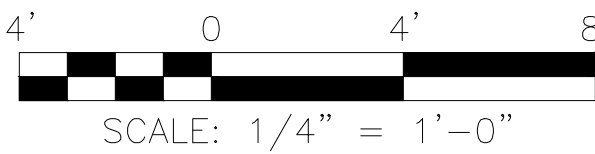
- ① DEMO CUT TILES, REMOVE AND SAVE FULL TILES, PALLET ON 2'X2' PALLETS.
② DEMO SHEETROCK BARRIER UNDER RAISED FLOOR.
③ DEMO THE OFFSET SUBSTRUCTURE IN THIS AREA, KEEP AS MANY STANCHIONS (AS POSSIBLE) FOR REUSE.

GENERAL NOTES

- A. CUT ALL RAF TILES OUTSIDE OF THE LAB AREA, WITH METAL CHIPS AND SHAVINGS REMOVED BEFORE RETURNING THEM TO THE LAB AREA.
B. ENSURE THE RAISED FLOOR (IN THE AFFECTED AREA) IS LEVEL AND STABLE WITH THE SURROUNDING RAISED FLOOR SYSTEM.
C. PALLET SAVED TILES ON 2' PALLETS.



28-1 KEY PLAN



LEGEND

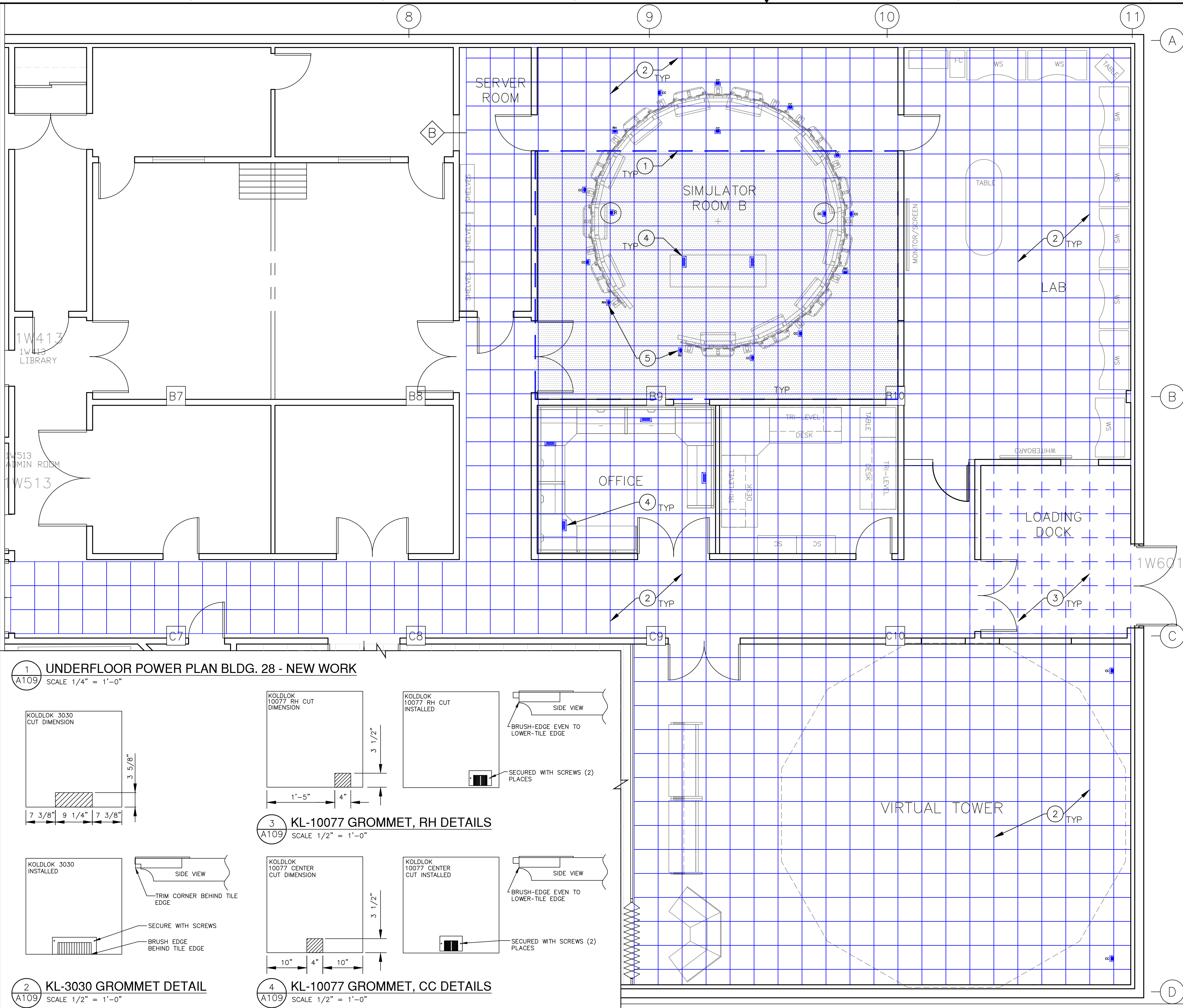
DEMO-UNLESS NOTED OTHERWISE

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-	-		-	-
REV	DATE	DESCRIPTION		CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 RAISED ACCESS FLOOR PLAN – DEMOLITION FIRST FLOOR – BUILDING 28–1					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209–PHASE 2 REV–B.dwg					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
	-				
	-				
	-				
	-	DESIGN: M.CHOUDHURY	LE TR#: 10457	DATE: 07/07/2026	
		DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.	SHEET 10 OF 27
		CHECK: R.HAYES	FM WORK REQUEST #: -	201209–A108	REV. -

PRINTED : 15:20 ON 06/26/26
MODIFIED : 06/24/26 AT 15:15
WHO : Bruce A-CR Daniels

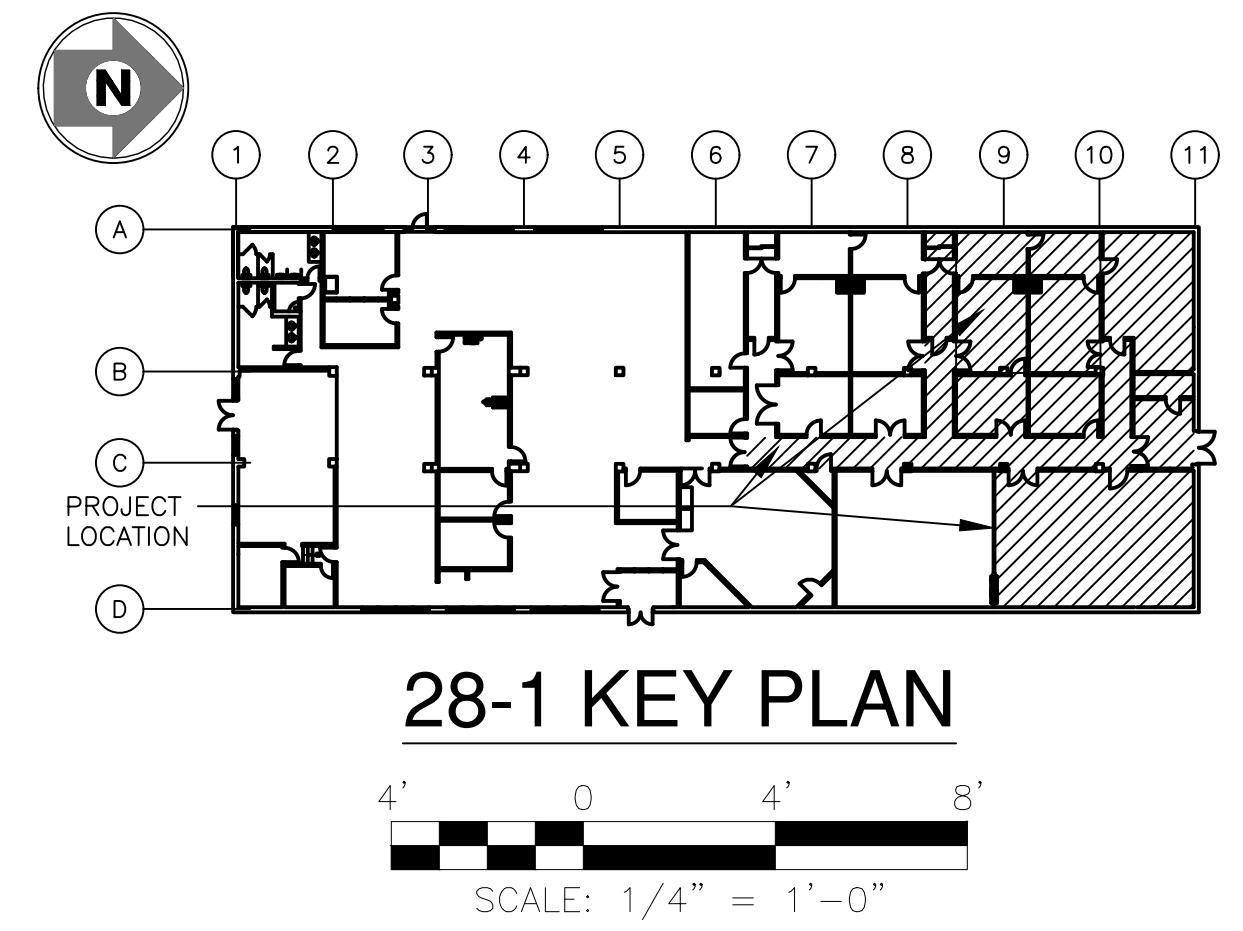


PROJECT NOTES

- 1 REUSE, PROVIDE AND INSTALL SUBSTRUCTURE TO ALIGN WITH THE SURROUNDING RAISED FLOOR.
- 2 PROVIDE AND INSTALL (1000) MOD-50 TILES WITH (GALILEO) ESD CARPET IN AREAS SHOWN.
- 3 PROVIDE AND INSTALL (50) MOD-50 TILES WITH (FORMICA CHEYENNE GREY, OR NEVAMAR GRAY STARLITE) ESD HPL IN DASHED AREA SHOWN.
- 4 INSTALL (6) KOLDLOK 3030 GROMMETS (GFM) IN LOCATIONS SHOWN, FURNITURE MUST BE MOVED OR LIFTED BY THE CONTRACTOR TO REPLACE FLOOR TILES, SEE DETAIL 2/A109.
- 5 PROVIDE AND INSTALL (18) KOLDLOK 10077 GROMMETS IN LOCATIONS SHOWN (4--RH CUT), (14--CC CUT), SEE DETAILS 3/A109 AND 4/A109.

GENERAL NOTES

- A. CUT ALL RAF TILES OUTSIDE OF THE LAB AREA, WITH METAL CHIPS AND SHAVINGS REMOVED BEFORE RETURNING THEM TO THE LAB AREA.
- B. ENSURE THE RAISED FLOOR (IN THE AFFECTED AREA) IS LEVEL AND STABLE WITH THE SURROUNDING RAISED FLOOR SYSTEM.



LEGEND

NEW WORK

FOR OFFICIAL USE ONLY
PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

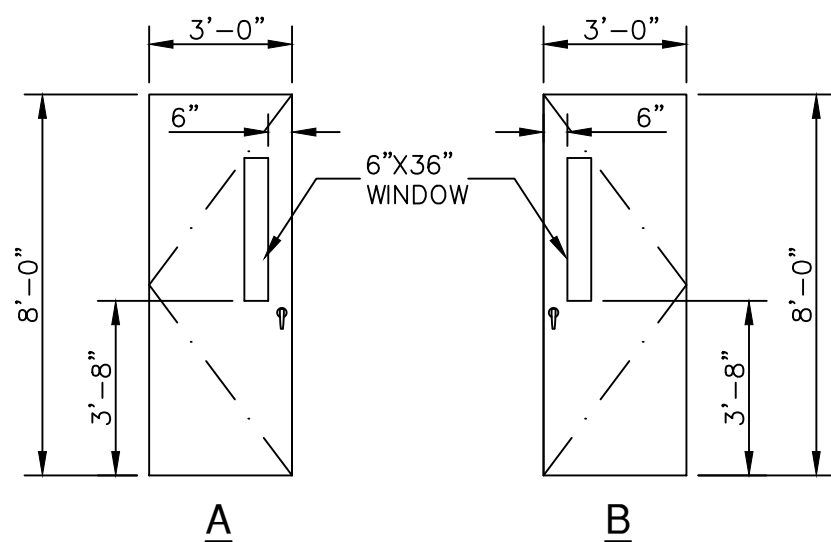
-	-	-		-	-
REV	DATE	DESCRIPTION			CHECK APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 RAISED ACCESS FLOOR PLAN - NEW WORK FIRST FLOOR - BUILDING 28-1					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
-					
-					
-					
		DESIGN: M.CHOUDHURY	LE TR#: 10457	DATE: 07/07/2026	
		DRAWN: B.DANIELS	N/A	DRAWING NO.	
		CHECK: R.HAYES	FM WORK REQUEST #:	201209-A109	
					SHEET 11 OF 27
					REV.

DOOR SCHEDULE

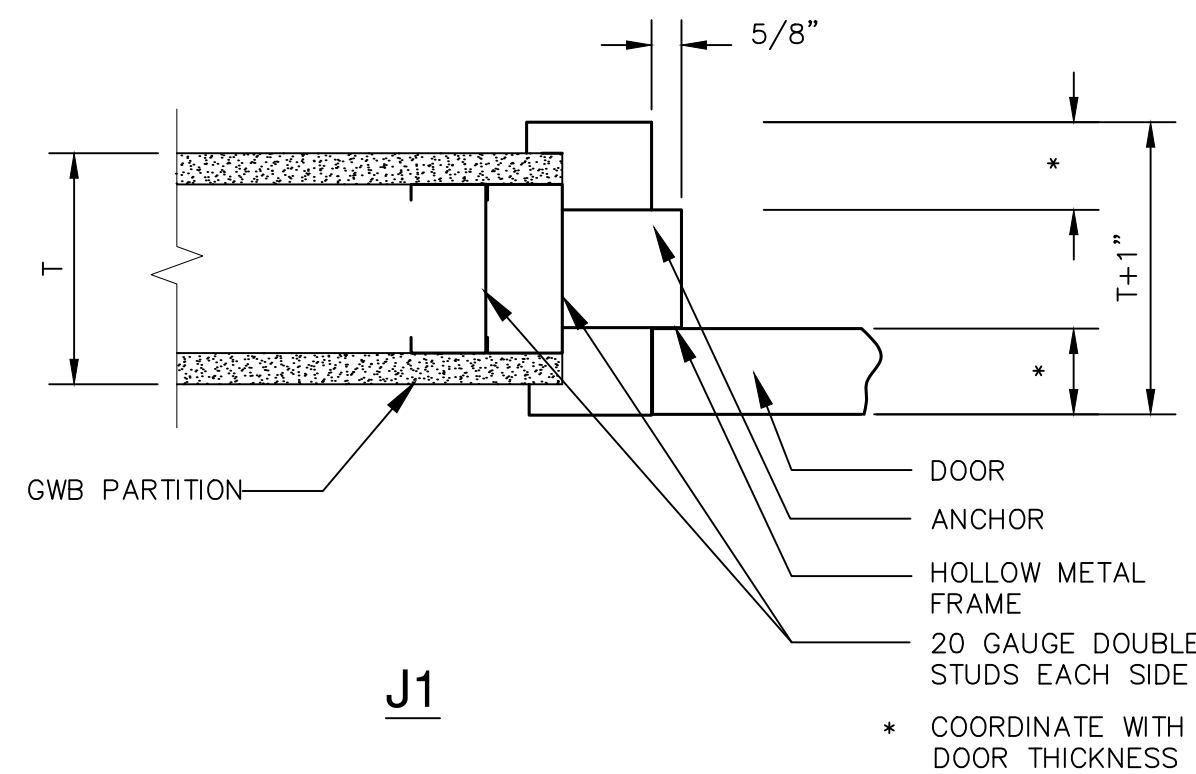
[illegible]

NOTES:

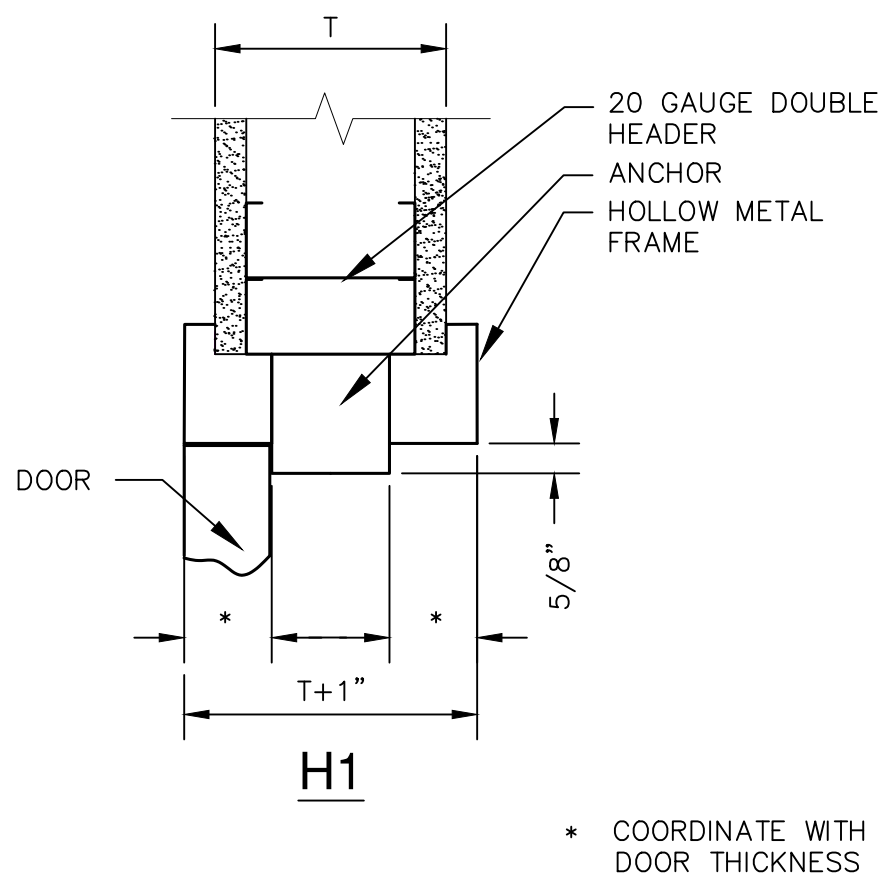
1. DOOR, FRAME AND HARDWARE TO BE PROVIDED BY THE DEMOUNTABLE PARTITION MANUFACTURER EXCEPT HARDWARE AS NOTED AS "GFE" IN THE HARDWARE SCHEDULE.



2 DOOR TYPES



1 HEAD & JAM DETAILS (FOR RELOCATED DOOR)
A901 NTS



GENERAL NOTES, DOOR AND HARDWARE SCHEDULES

HARDWARE SCHEDULES

HARDWARE SCHEDULE			
TYPE 1	DOOR 1 & 2		
	QTY.	DESCRIPTION	FINISH
CYLINDER	1	BEST LOCK - 7 PIN COR (GFE)	US26D
CYPHER LOCK	1	ALARM LOCK - AKDL3200IC	US26D
DOOR CLOSER	2	PROVIDED BE PARTITION WALL MANFACTURER	
HINGE	2	PROVIDED BE PARTITION WALL MANFACTURER	
DOOR SILENCER	6	PROVIDED BE PARTITION WALL MANFACTURER	
DOOR STOP	2	PROVIDED BE PARTITION WALL MANFACTURER	
KICK PLATE	2	PROVIDED BE PARTITION WALL MANFACTURER	

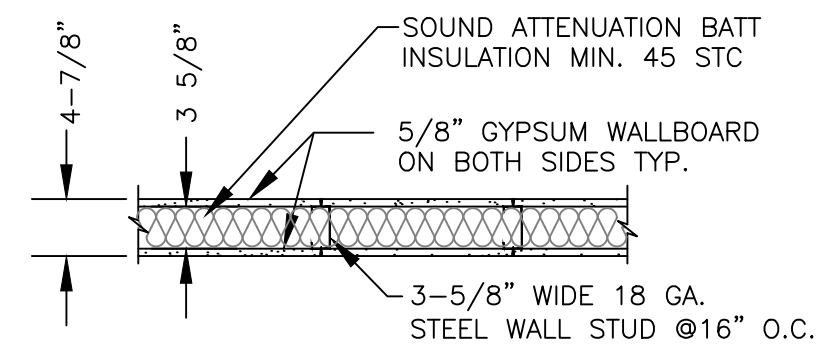
DOOR HARDWARE NOTES

1. DOOR HARDWARE MANUFACTURERS NOTED ARE BASIS OF DESIGN, OR EQUAL MANUFACTURES CAN BE PROVIDED UPON APPROVAL.
2. ALL DOOR CLOSERS WILL BE ACCESSIBLE COMPLIANT WITH REGARD TO OPENING FORCE (5LBS.) & CLOSING SPEED (5 SECONDS, 90 - 12 DEGREES).
3. REVIEW HARDWARE SPECIFICATIONS WITH WJHTC LOCKSMITH TO DETERMINE COMPLIANCE WITH HARDWARE STANDARDS.
4. DOOR IDENTIFICATION TAGS TO BE PROVIDED PER WJHTC STANDARD.

LAB CHAIR NOTES

BASIS OF DESIGN:

1. MANUFACTURER: SIT-ON-IT
2. MODEL: NOVO — PROVIDE (4) CHAIRS
FINISHES:
 - FRAME COLOR — BLACK
 - MESH COLOR — ONYX (GRADE 2)
 - LUMBAR COLOR — BLACK
 - LUMBAR ACCENT COLOR — ONYX
 - BASE COLOR — BLACK NYLON
 - TEXTILE — ELEMENT CHARCOAL (GRADE 2)
 - BACK HEIGHT — MIDBACK
 - ARM TYPE — HEIGHT AND WIDTH ADJUSTABLE (MULTI ADJUSTABLE)
 - MECHANISM TYPE — SYNCHRO TILT MECHANISM WITH SEAT DEPTH ADJUSTMENT
 - CYLINDER HEIGHT — STANDARD CYLINDER
 - CASTER TYPE — CARPET CASTER
 - PACKAGING — KNOCKED DOWN
3. PROVIDE UN-CRATING AND INSTALLATION OF CHAIRS AS WELL AS THE REMOVAL OF ALL TRASH



B TYPICAL STEEL STUD INTERIOR PARTITION
NON FIRE RATED

3
A901

WALL SECTION DETAIL

NTS

FOR OFFICIAL USE ONLY
PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-	-		-	-
REV	DATE	DESCRIPTION		CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 DOOR SCHEDULE, NOTES AND DETAILS					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
-					
-					
-	DESIGN: C.MENCHIN	LE TR#: 10457	DATE: 07/07/2026		
	DRAWN: D.DANIELS	FM ORDER#: N/A	DRAWING NO. SHEET 12 OF 27		
	CHECK: R.HAYES	FM WORK REQUEST #:	201209-A901		
			-		

	SPECIAL PURPOSE RECEPTACLE. X DENOTES SPECIAL RECEPTACLE REQUIREMENT. SEE RECEPTACLE SCHEDULE.
	SPECIAL PURPOSE RECEPTABLES OF THE SAME KIND, IN MULTI GANG BOX. X DENOTES SPECIAL RECEPTACLE REQUIREMENT. SEE RECEPTACLE SCHEDULE.
	SINGLE RECEPTACLE: ONE 20A, 125V, 2P, 3W, GROUNDING TYPE, SPECIFICATION GRADE, NEMA 5-20R (G). RECEPTACLE TO BE ISOLATION GROUNDING (IG) GRADE (UO) BY SUBSCRIPT, N=NON (IG). INSTALL IN 4X4 ELECTRICAL BOX WITH PROPER SIZE PLATE.
	DUPLEX RECEPTACLE: ONE 20A, 125V, 2P, 3W, GROUNDING TYPE, SPECIFICATION GRADE, NEMA 5-20R (G). RECEPTACLE TO BE ISOLATION GROUNDING (IG) GRADE (UO) BY SUBSCRIPT, N=NON (IG). INSTALL IN 4X4 ELECTRICAL BOX WITH PROPER SIZE PLATE.
	QUADRUPLUX RECEPTACLE: TWO 20A, 125V, 2P, 3W, GROUNDING TYPE, SPECIFICATION GRADE, NEMA 5-20R (G). RECEPTACLE TO BE ISOLATION GROUNDING (IG) GRADE (UO) BY SUBSCRIPT, N=NON (IG). INSTALL IN 4X4 ELECTRICAL BOX WITH PROPER SIZE PLATE.
	2" ELECTRIC METALLIC TUBING (EMT) (UO)
	3/4" FLEXIBLE METAL CONDUIT (FMC), (UO)
	THROUGH FLOOR TRANSITION-DOWN
	THROUGH FLOOR TRANSITION-UP
	JUNCTION BOX W/COVER "X" DENOTES SIZE AS INDICATED BELOW. (UO) 1.) 18" x 18" x 6" 2.) 12" x 12" x 6" 3.) 6" x 6" x 4" 4.) 4" SQUARE 5.) 12" x 6" x 6" 6.) 12" x 18" x 6"
	GROUNDING CONNECTION
	HARDWIRED CIRCUIT TO JUNCTION BOX
	GROUNDING BOX
	GROUNDING BOX DESIGNATION (B) DENOTES BRANCH PLATE NEAREST COLUMN NUMBER FLOOR NEAREST COLUMN LETTER
	SMOKE DETECTOR UNDERFLOOR

Numerical I.D. for Source or System Designations		Equipment Type		Voltage	Power Path Identifier
Categories of Power Services *1		UPS	Uninterruptable Power Supply		(Where Applicable)
B	Building Service Power (Commercial /Utility)	ATS	Automatic Transfer Switch	H 480 Volt at 60 Hz	A or 1 Primary
E	Essential Service Power	MBP	Maintenance Bypass Panel	L 208 Volts or 208Y/120 Volts at 60Hz.	B or 2 Secondary
C	Critical Service Power	STS	Static Transfer Switch		M Maintenance
D	Conditioned Service Power	MTS	Manual Transfer Switch	D 48 Volt DC	T Temporary
Equipment Type (Ref. 1)		S	Switchboard		
		T	Transformer		
GEN	Generator	TVS	Transient Voltage Surge Suppression (TVSS)	Notes: This legend and equipment schedule colors and nomenclature are based on the NAS Critical Power Distribution System (CPDS) Type 2. This reference has been customized to include the unique equipment specific to the WJHTC and other than CPDS The original C	
LB	Load Bank	PCE	Power Conditioning Equipment		
SUB	Double Ended Substation	CP	Computer Panelboard		
SE	Utility Service Entrance	DP	Distribution Panelboard		
U	UPS	DS	Distribution Switchboard		
BAT	Battery	PS	Paralleling Switchboard		
AC	Air Conditioning	D or DS	Safety Switch Disconnect, Non-Fused		
PP	Power Panelboard	DT	Double Throw Safety Switch		
LP	Lighting Panelboard	DF	Safety Switch Disconnect, Fused		
RP	Receptacle Panelboard	ECB	Enclosed Circuit Breaker		
		C(R)AC	Computer (Room) Air Conditioning	*1 Refer to FAA Order 6030.20F (Electrical Power Policy) and FAA Order 6050.2E	
		R	Rack		

Format: Equipment Name + Breaker or Feeder Name (+ Number I.D.Optional) + Optional Power Path with Number I.D.

Breaker		Breaker	
AF	Amp Frame	TB	Tie-Breaker
AT	Amp. Trip	GMBB	Gen. Maint. Bypass Breaker
GM	Generator Main	LBB	Load Bank Breaker
GB	Generator Breaker	MBB	Maint. Bypass Breaker
FB	Feeder Breaker	MIB	Maint. Isolation Breaker
IB	Isolation Breaker	RIB	Rectifier Input Breaker
MB	Main Breaker or	SBB	System Bypass Breaker
MCB	Main Circuit Breaker	MLO	Main Lug Only
NM	Normal Utility Power Main	UOB	Eaton's UPS Distribution Panel Main Breaker
		XOB	Eaton's UPS Distribution Panel Output Breaker

Proposed Elect. Equipment Signage Color Code for Categories of Power Services		
Color	Category of Power Services	Power Source Description
XYZ	(B) Building Power:	Commercial Power from Utility also referred as Routine Power only
XYZ	(E) Essential Power:	Commercial Power or Emergency Generator Power through an ATS
XYZ	(C) Critical Power:	UPS & UPS fed panels powered from Building Power on Emergency Generator backup
XYZ		BCP UPS and BCP panels power from Building Power on BCP Emergency Generator backup
XYZ	(D) Conditioned Power:	UPS and UPS fed panels power from Building Power only without Emergency Generator Power

Building Designation	Floor Designation	Combined Code	Numeric Value (1-999)	Description	Example
300	1	A	X	Code "A" is Bldg. 300 First Floor	BRPLA1
	2	B	X	Code "B" is Bldg. 300 Second Floor	BRPLB99
	3	C	X	Code "C" is Bldg. 300 Third Floor	BRPLC316
	PH (MER)	D	X	Code "D" is Bldg. 300 Penthouse or Mechanical Elec. Room	BRPLD8
316	2	E	X	Code "E" is Bldg. 316 Second Floor	BRPLE99
	3	F	X	Code "F" is Bldg. 316 Third Floor	BRPLF300
	4	G	X	Code "G" is Bldg. 316 Fourth Floor	BRPLG33
	PH (MER)	H	X	Code "H" is Bldg. 316 Penthouse or Mechanical Elec. Room	BRPLH17

Equipment Type	ID	Description
Lighting Panelboard	LP	LP Panels are panels with branch circuits used to power lighting fixtures. Commercial installation utilization voltage of 277 VAC.
Receptacle Panelboard	RP	Receptacle Panels are those Panels that provide 120 VAC to receptacles used only for convenience power, mostly along walls and columns for non-computer equipment , e.g. drills, vacuum cleaner, etc.
Computer Panelboard	CP	Computer Panelboards are 208Y/120 VAC, 3 PH, 4W panels used to power computer equipment, communication equipment, UPS and other NAS equipment. These panels are powered from dedicated substations servicing B300 & B316 or as a sub panel of another Computer
Distribution Panelboard	DP	Distribution Panelboards are 208Y/120 VAC, 3PH, 4W substation fed panelboards that only feed one or more CP type Panels.
Power Panelboard	PP	Power Panelboards are 480Y/277 VAC, 3 PH, 4W or 480 VAC, Delta, 3PH, 3 W Panelboards, used mainly to power H/VAC equipment (CAM, CRAC, Cir. Pumps, standard or harmonic transformers, diode panel, UPS, etc.)

1. NAS/SENSITIVE ELECTRONIC EQUIPMENT AND DEDICATED COMMERCIAL POWER DISTRIBUTION WIRING SHOWN IN BLACK IS IN THE SCOPE OF WORK AND IS EXISTING TO REMAIN. WHAT IS SHOWN IN GRAY IS FOR REFERENCE ONLY.
2. NAS/SENSITIVE ELECTRONIC EQUIPMENT AND DEDICATED COMMERCIAL POWER DISTRIBUTION WIRING SHOWN IN RED IS EXISTING TO BE DEMOLISHED UNLESS OTHERWISE NOTED. EVERYTHING SHOWN IN BLUE IS TO BE PROVIDED NEW.
3. ALL WORK MUST COMPLY WITH NEW JERSEY CODES AND STANDARDS ADOPTED TO DATE 2020 NFPA 70 (NEC) & 2020 NJEC UNLESS OTHERWISE NOTED. THE MOST RECENT VERSION OF NFPA LIFE AND SAFETY CODES AS WELL AS LATER VERSIONS OF RELATED SUB CODES.
4. ALL RECEPTABLES SERVED BY BRANCH CIRCUITS FROM COMPUTER PANELBOARDS DESIGNATED "CP", "CNP", OR FROM POWER DISTRIBUTION UNITS (PDU) MUST BE OF THE ISOLATED GROUND TYPE, (UO).
5. 120 VOLT AND 208 VOLT, 1 PHASE, BRANCH CIRCUITS IF APPLICABLE MAY BE INSTALLED TOGETHER IN 1-1/2" CONDUITS (MINIMUM), AND ROUTED UNDERNEATH THE RAISED FLOOR. CONDUIT MUST BE MOUNTED ON 1 5/8" GALVANIZED STEEL CHANNEL ANCHORED TO CONCRETE SUB-FLOOR. WHEN THERE IS MORE THAN ONE BRANCH CIRCUIT CONDUIT MAKE EQUAL DISTRIBUTION OF CIRCUITS (UO).
6. FLEXIBLE METALLIC CONDUIT (FMC) MAY BE UTILIZED NOT TO EXCEED 10FT FOR ROUTING MULTIWIRE PANELBOARDS WHERE THE UNDERFLOOR OBSTRUCTIONS MAY EXIST.
7. JUNCTION BOXES MUST BE PROVIDED FOR UNDER FLOOR MULTIWIRE BRANCH CIRCUITS IN SINGLE CONDUIT, AS INSTALLATION CONDITIONS REQUIRE, SIZED AT 18"x18"x6" MINIMUM. IF SPACE CONSTRAINTS DICTATE THE USE OF SMALLER DIMENSIONS, 12"x12"x4" MUST BE ALLOWED PER NEC WITH THE FAA PROJECT MANAGER'S APPROVAL. JUNCTION BOXES MUST BE MOUNTED ON 3/4" GALVANIZED STEEL CHANNEL, ANCHORED TO CONCRETE SUB-FLOOR (UO).

21. FAA PROJECT MANAGER MUST BE NOTIFIED WHENEVER THE CONTRACTOR IS ON SITE TO PERFORM WORK. CONTRACTOR MUST PROVIDE A CONSTRUCTION SCHEDULE TO THE TOR PRIOR TO START OF PROJECT.
22. CONTRACTOR MUST COORDINATE ALL WORK WITH THE TOR TO INCLUDE TRACING AND IDENTIFYING OF CIRCUITS (NEW AND EXISTING) THAT ARE PROPOSED FOR THE PROJECT. DO NOT DE-ENERGIZE ANY CIRCUIT WITHOUT PRIOR APPROVAL FROM THE TOR.
23. CONTRACTOR IS RESPONSIBLE FOR ENERGIZING AND VERIFYING CONNECTIVITY AND VOLTAGE AT ALL NEWLY INSTALLED CIRCUITS AND DEVICES. CONTACT TOR FOR FINAL APPROVAL.
24. CONTRACTOR MUST NOTIFY THE TOR WHEN THE PROJECT IS READY FOR (CAI).
25. ELECTRICAL CONTRACTOR WILL NOT PERFORM ENERGIZED WORK WITHOUT THE PROPER SUBMITTAL & APPROVAL OF AN ENERGIZED WORK PERMIT. CONTACT THE TOR FOR MORE INFORMATION.
26. CONTRACTOR MUST INSTALL COLOR CODED ELECTRICAL CONDUCTORS PER NEC STANDARD. WHEN COLORED CONDUCTORS ARE NOT AVAILABLE, OR PROCUREMENT MAY CAUSE IMPACT TO THE OVERALL PROJECT SCHEDULE, THE CONTRACTOR MUST REQUEST APPROVAL FROM THE TOR TO FOLLOW THE PROVISIONS INDICATED IN SPECIFICATION FAA-C-1217.

1. CONTRACTOR MUST ADHERE TO ALL SAFETY REQUIREMENTS (FAA, STATE, OSHA, AND LOCAL AGENCIES) AND COMPLY WITH ALL APPLICABLE BUILDING STANDARDS. THE EQUIPMENT, ELECTRICAL, AND COMMUNICATION REQUIREMENTS MUST CONFORM TO THE LATEST VERSIONS OF THE FOLLOWING: NFPA-70/NECA-101; ADA AND FAA ELECTRICAL SPECIFICATION FAA-C-1217. LIGHTNING, SURGE PROTECTION AND BONDING MUST MEET OR EXCEED FAA STANDARD #019F WHICH MUST BE STRICTLY ADHERED TO. ALL WORK MUST BE PERFORMED BY LICENSED CONTRACTORS WHERE APPLICABLE. LICENSED ELECTRICIANS MUST FOLLOW NFPA70E STANDARD, FAA ORDER JO3900.64 AND JO3900.19B. COPIES OF FAA SPECIFICATIONS MAY BE OBTAINED FROM THE TOR.
2. CONTRACTOR IS RESPONSIBLE FOR RESTORING THE AFFECTED RAISED FLOOR SYSTEM TO ITS ORIGINAL CONDITION.
3. ALL CONDUITS INSTALLED THROUGH RAISED FLOOR TILES MUST BE SLOTTED TO TILE EDGE ALLOWING THE TILE TO BE REMOVED. THE (NON-SLOT) SIDE MUST CLEAR THE CONDUIT NO MORE THAN 1/4" BUT NOT BIND IT. FOR CARPET TILE, PULL BACK THE CARPET, SLOT TILE AND ADHERE THE CARPET AROUND THE CONDUIT. IF HPL, FILL CUT WITH FAA APPROVED, REMOVABLE AND FIRE SAFE MATERIAL.
4. CONTRACTOR MUST VERIFY ALL DIMENSIONS, DETAILS AND CONDITIONS AT THE JOB SITE AND NOTE ANY DISCREPANCIES WITH THE TOR BEFORE PROCEEDING WITH SCOPE OF WORK.
5. CONTRACTOR MUST MAINTAIN AS-BUILT CONSTRUCTION DRAWINGS BY REDLINING ANY MODIFICATIONS OR CHANGES MADE DURING CONSTRUCTION. UPON CONSTRUCTION COMPLETION THE CONTRACTOR MUST SUBMIT ONE (1) COMPLETE SET OF AS-BUILT DRAWINGS TO THE TOR UNLESS OTHERWISE SPECIFIED IN THE (SOW).
6. BEFORE ANY WORK IS STARTED UNDER THE RAISED FLOOR WHERE SMOKE, COMBUSTION, OR DUST GENERATION IS POSSIBLE, (FP) MUST BE NOTIFIED TO DEACTIVATE SMOKE DETECTORS IN THE AREA. THIS IS ACCOMPLISHED BY CONTACTING THE TOR.
7. CONTRACTOR MUST COMPLY WITH ALL STANDARDS AND CODES. HOWEVER WHERE THE REQUIREMENT OF THE SPECIFICATIONS OR DRAWINGS EXCEED THOSE OF LOCAL CODES THEN THE CONTRACTOR MUST ADHERE TO THE REQUIREMENT OF THE SPECIFICATIONS OR DRAWINGS.
8. CONTRACTOR IS RESPONSIBLE FOR ALL THE MOVING & PLACEMENT OF GFE.

AFF	ABOVE FINISHED FLOOR	NAS	NATIONAL AIRSPACE SYSTEM
AMP	AMPERES	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	NJBUC	NEW JERSEY INTERNATIONAL BUILDING CODE
BKR	BREAKER, CIRCUIT	NO	NUMBER
BL	BI-LEVEL	NTS	NOT TO SCALE
CAI	CONTRACTOR ACCEPTANCE INSPECTION	e	PHASE
CIR	CIRCUIT	ON	ON CENTER
CL	CENTER LINE	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
CO	CONTRACTING OFFICER	P	POLES, CIRCUIT BREAKER
COR	CONTRACTING OFFICER'S REPRESENTATIVE	P/S	PROCESSOR OR SERVER
CP or CPP	COMPUTER PANEL or COMPUTER POWER PANEL	POU	POWER DISTRIBUTION UNIT
CSM	CONTRACTOR SUPPLIED MATERIAL	PLCS	PLACES
CUP	COPPER	PM	POWER MONITORING
DC	CENTRAL UTILITIES PLANT	PN	PROJECT NOTE
DOT	DIRECT CURRENT	PANEL	PANEL
DS	DEPARTMENT OF TRANSPORTATION	PP	POWER PANELBOARD
DS	DISCONNECT SWITCH	PSE	PROJECT SYSTEM ENGINEER
ECB	ENCLOSED CIRCUIT BREAKER	PTR	PRINTER
EG	ELECTRICAL SAFETY GROUND	R	RACK
EMT	ELECTRICAL METALLIC TUBING	RBB	RED BRICK BUILDING
EXT	EXTENSION CORD	RECP	RECEPTACLE
FAA	FEDERAL AVIATION ADMINISTRATION	REV	REVISION
FCL	FALSE CEILING LINE	RF	RAISED FLOOR
FFL	FALSE FLOOR LINE	RM	ROOM
FL	FLOOR LEVEL	RP or RPP	RECEPTACLE PANELBOARD OR RECEPTACLE POWER
FMC	FLEXIBLE METAL CONDUIT	RPO	REMOTE POWER OFF
FP	FIRE PREVENTION	RS	RUSSELL STOLL
GFE	GOVERNMENT FURNISHED EQUIPMENT	SE	SYSTEMS ENGINEER
GM	GOVERNMENT FURNISHED MATERIAL	SEI	SYSTEMS ENGINEER FOR INFRASTRUCTURE
GL	GROUND LEVEL	SOW	SCOPE OF WORK
GN	GENERAL NOTE	SPG	SINGLE POINT GROUND
HD	HOT DIPPED GALVANIZED	SRG	SIGNAL REFERENCE GRID
HV	HIGH VOLTAGE	SS	STAINLESS STEEL
HW	HARD WIRED	T	TABLE
IEEC	INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS	TBD	TO BE DETERMINED
IG	ISOLATED GROUND	TL	TRO - LEVEL
JB	JUNCTION BOX	TR	TASK REQUEST
KAC	KILOAMPERE INTERRUPTING CURRENT	TYP	TYPICAL
KW	KNOCK OUT	UOI	UNLESS OTHERWISE INDICATED
LEB	LABORATORY ENGINEERING BRANCH (ANG-E12)	UPS	UNINTERRUPTIBLE POWER SUPPLY
LP	LIGHTING PANELBOARD	V or VAC	VOLTAGE ALTERNATING CURRENT
LTO	LOCK OUT TAG OUT	VIF	VERIFY IN FIELD
LV	LOW VOLTAGE	W	WIRES, NUMBER OF WIRES
M/D	MONITOR/DISPLAY	WB	WORKBENCH
MCB	MAIN CURRENT BREAKER	WO	WORK ORDER
MCS	MOLDED CASE SWITCH	WR	WORK REQUEST
MFR	MANUFACTURER	TOR	TECHNICAL OFFICER REPRESENTATIVE
MPG	MULTIPOINT GROUND	WS	WORKSTATION

RECEPTACLE LETTER DESIGNATION	NEMA CONFG	AMPCACITY RATING	POLE	WIRE	VOLTS, PHASE	GROUNDING TYPE (Y/N)	REMARKS	CONDUCTORS REQUIRED FOR A COMPUTER GRADE BRANCH CIRCUIT
A	L5-15R	15	2	3	125,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, DUPLEX	(1) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
A1	L5-15R, 5-20R	15/20	2	3	125,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, DUPLEX STRAIGHT BLADE, ISOLATED GROUND, DUPLEX	(1) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
A2	L5-15R	15	2	3	125,1	YES	2 EA LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, DUPLEX	(1) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
A3	L5-15R	15	2	3	125,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(1) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
B	L6-15R	15	2	3	250,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, DUPLEX	(2) #10, (1) #10 EG, (1) #10 IG
B1	L6-15R	15	2	3	250,1	YES	2 EA LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, DUPLEX	(2) #10, (1) #10 EG, (1) #10 IG
B2	L6-15R	15	2	3	250,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(2) #10, (1) #10 EG, (1) #10 IG
C	L5-20R	20	2	3	125,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(1) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
C1	L5-20R	20	2	3	125,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, DUPLEX	(1) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
D	L6-20R	20	2	3	250,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(2) #10, (1) #10 EG, (1) #10 IG
E	L5-30R	30	2	3	125,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(1) #8, (1) #8 N, (1) #8 EG, (1) #8 IG
F	L6-30R	30	2	3	250,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(2) #8, (1) #8 EG, (1) #8 IG
G	L21-20R	20	4	5	120/208, 3Y	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(3) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
H	L21-30R	30	4	5	120/208, 3Y	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(3) #8, (1) #8 N, (1) #8 EG, (1) #8 IG
I	6-15R	15	2	3	250,1	YES	STRAIGHT BLADE, ISOLATED OR NON-ISOLATED GROUND	(2) #10, (1) #10 EG, (1) #10 IG
J	L15-20R	20	3	4	250,3	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(2) #10, (1) #10 EG, (1) #10 IG
K	6-20R	20	2	3	250,1	YES	STRAIGHT BLADE, ISOLATED OR NON-ISOLATED GROUND	(2) #10, (1) #10 EG, (1) #10 IG
L	5-30R	30	2	3	125,1	YES	STRAIGHT BLADE, ISOLATED OR NON-ISOLATED GROUND	(1) #8, (1) #8 N, (1) #8 EG, (1) #8 IG
M	6-30R	30	2	3	250,1	YES	STRAIGHT BLADE, ISOLATED OR NON-ISOLATED GROUND	(2) #8, (1) #8 EG, (1) #8 IG
N							NON IG RECEPTACLE	
O	5-20R	20	2	3	125,1	YES	STRAIGHT BLADE, ISOLATED OR NON-ISOLATED GROUND	(1) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
P	L8-20R	20	2	3	480,1	YES	LOCKING TYPE, NON-ISOLATED, SINGLE	(1) #10, (1) #10 N, (1) #10 EG
Q	L14-30R	30	3	4	125/250,1	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(2) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
R	L9-20R	20	2	3	600,1	YES	LOCKING TYPE, NON-ISOLATED GROUND, SINGLE	(1) #10, (1) #10 N, (1) #10 EG
S	L16-20R	20	3	4	480,3	YES	LOCKING TYPE, NON-ISOLATED GROUND, SINGLE	(3) #10, (1) #10 EG
T	6-50R	50	3	4	250,1	YES	NON-ISOLATED GROUND, SINGLE	(2) #8, (1) #8 EG, (1) #8 IG
U	L15-30R	30	3	4	250,3	YES	LOCKING TYPE, ISOLATED GROUND OR NON-ISOLATED, SINGLE	(3) #8, (1) #8 EG, (1) #8 IG
V	N/A	50	3	4	250,3	YES	#CS8369 HUBBELL TWIST LOCK RECEPTACLE	(3) #8, (1) #8 EG
X	N/A	60	2	3	125,1	YES	#360R4W HUBBELL, PIN & SLEEVE, WATERTIGHT	(1) #10, (1) #10 N, (1) #10 EG, (1) #10 IG
RS3933	N/A	30	2	3	250,1	YES	PIN AND SLEEVE	(2) #8, (1) #8 EG, (1) #8 IG
RS-3754	N/A	30	3	4	250,3	YES	RUSSELSTOLL NO 3754,	(3) #8, (1) #8 EG, (1) #8 IG
RS3750	N/A	30			250,1	YES	RUSSELSTOLL NO 3750,	(2) #8, (1) #8 EG, (1) #8 IG

NOTE: NOT ALL RECEPTACLES LISTED ARE USED IN THIS PROJECT.

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-	-		-	-
REV	DATE	DESCRIPTION	CHECK	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 ELECTRICAL GENERAL NOTES					
POMONA	WILLIAM J. HUGHES TECHNICAL CENTER				N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY		SUBMITTED BY	APPROVED BY		
-					
-					
-					
DESIGN: S.SHAH		LE TR#: 10457	DATE: 07/07/2026		
DRAWN: B.DANIELS		FM ORDER#: -	DRAWING NO. SHEET 13 OF 27 REV.		
CHECK: M.KORZEN		FM WORK REQUEST #:	201209-E001		
			-		

Table 3. Size of Electronic Multipoint Ground Interconnecting Conductors

Conductor Size (AWG or kcmil)	Max. Path Length (ft)	Bus Bar Size, See Note 2 (in.)	Max. Path Length (ft)
750, See Note1	375	4 x 1/4	636
600, See Note1	300	4 x 1/8	318
500	250	3 x 1/4	476
350	175	3 x 1/8	238
300	150	2 x 1/4	318
250	125	2 x 1/8	159
4/0	105	2 x 1/16	79
3/0	84	1 x 1/4	159
2/0	66	1 x 1/8	79
1/0	53	1 x 1/16	39
1	41		
2	33		
4	21		
6	14		
8, See Note 3	9		
10, See Note 3	6		
12, See Note 3	4		

Notes:

- Where these conductors are not available, parallel conductors are permitted, such as three 250 kcmil conductors in place of one 750 kcmil conductor, or two 300 kcmil conductors in place of one 600 kcmil conductor. Conductor sizing is based on providing a cross-sectional area of 2,000 cmil per linear ft. Bus bar sizes are chosen from available cross-sections and shall exceed the cross-sectional requirement of 2,000 cmil per linear ft.
- Denotes an MPG designed with a continuous bus bar layout in lieu of ground plates and interconnecting conductors.
- Conductor wire sizes 12 AWG through 8 AWG are permitted only for bond jumper connections between subassemblies and interior cabinet ground plate within the electronic equipment enclosure.

Table 4. Ground Plate Specification Requirements

Plate Type	Acronym	Application Requirements (see article)	Material	Configuration Notes	Identification Notes
Main	Main-GP	4.7.2	Copper	1, 2, 3, 4	5, 6
Supplemental	Supp-GP	4.7.2	Copper	1, 2, 3, 4	5, 6
Multipoint	MPGP	4.7.3.1	Copper	1, 2	5, 6
Single Point	SPGP	5.5.4	Copper	1, 2	5, 6
Notes:					
1.	<u>Plate Dimensions.</u> Ground plate dimensions shall be at least 4 in. wide and 1/4 in. thick. Provide adequate length to accommodate number of bond connections plus at least two spare positions.				
2.	<u>Conductor Terminations at Ground Plates.</u> Provide either UL listed hydraulically crimped 2-bolt-hole style terminal lugs or exothermic welds for conductor terminations.				
3.	<u>Conductor Terminations at the EES.</u> The connections from ground plates to the EES shall be made with exothermic welds at the EES. The connections shall be as follows: a. <u>Conductor between Main-GP and EES.</u> Provide at least one 500 kcmil conductor. The Main-GP location shall be chosen to minimize conductor length, but shall not be more than 50 ft from the EES. b. <u>Conductor between Supp-GP and EES.</u> Provide at least one 500 kcmil conductor. The Supp-GP location shall be chosen to minimize conductor length, but shall not be more than 50 ft from the EES. The conductor length from Supp-GP to the EES shall be 30 percent longer or shorter than the conductor between the Main-GP and the EES.				
4.	<u>Interconnection of Main-GP and Supp-GP.</u> Provide a 4/0 AWG bonding conductor connected between the Main-GP and Supp-GP.				
5.	<u>Ground Plate Covers.</u> Provide clear plastic covers with a permanently attached label or metal nameplate. The nameplate text shall be color black with 3/8-in. high letters and Arial font. The cover shall be identified with color-coded overlay markings configured by system type. The nameplate caption and cover identification shall be as follows: a. <u>Main-GP.</u> Provide label caption, “MAIN GROUND PLATE” and cover markings with clear background and green slashed marking tags around the caption. b. <u>Supp-GP.</u> Provide label caption, “SUPPLEMENTAL GROUND PLATE” and cover markings with clear background and green slashed marking tags around the caption. c. <u>MPGP.</u> Provide label caption, “MULTIPOINT GROUND PLATE” and cover markings with green background and bright orange slashed marking tags around the caption. d. <u>SPGP.</u> Provide label caption, “SINGLE POINT GROUND PLATE” and cover markings with green background and bright yellow slashed marking tags around the caption.				
6.	<u>Conductor Identification Requirements.</u> See Table 5 of this Standard.				

FAA-STD-019-G TABLE #3

FAA-STD-019-G TABLE #4

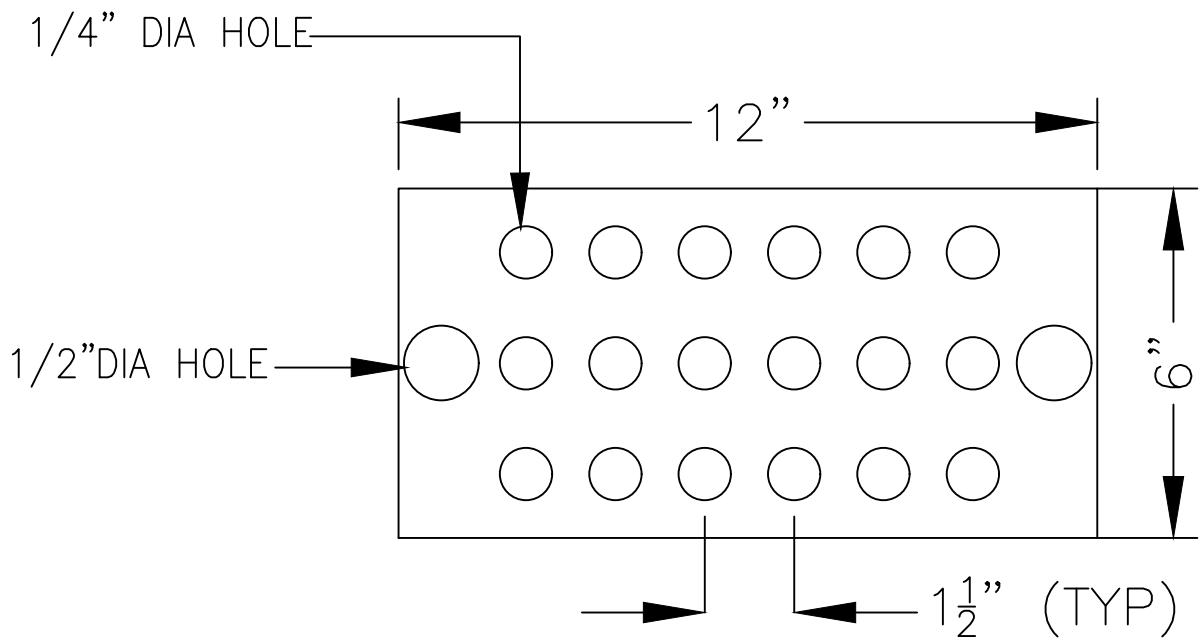
Table 5. Grounding Conductor Insulation Color Codes

Conductor Insulation - Color Identification	Use
Green with red tracer	Conductor between Main-GP and EES Conductor between Supp-GP and EES High-Transient ground
Green with yellow tracer	Single point ground
Green with orange tracer	Multipoint ground
Green with red and yellow tracers	Isolated grounds

Notes:

- Some commercial off-the-shelf (COTS) equipment uses green with yellow tracer as the color identification for the EGC. These conductors are permitted.
- Conductor labeling material type and format specification shall be in accordance with FAA-C-1217.
- Tracers shall be applied for a minimum length of four inches at each cable end and wherever the conductor is visually exposed. Additionally, when routed in cable trays, conductors shall be color-coded every three feet.

FAA-STD-019-G TABLE #5



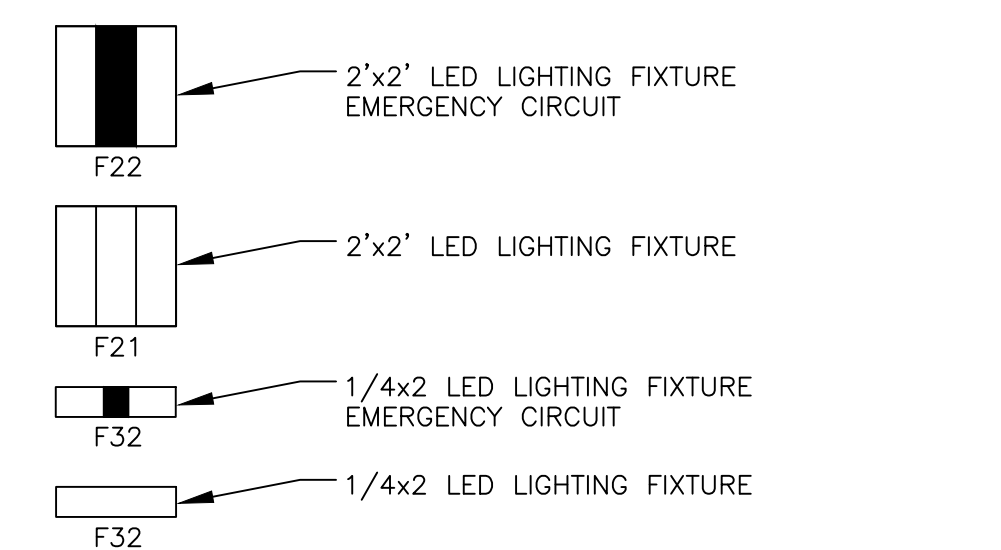
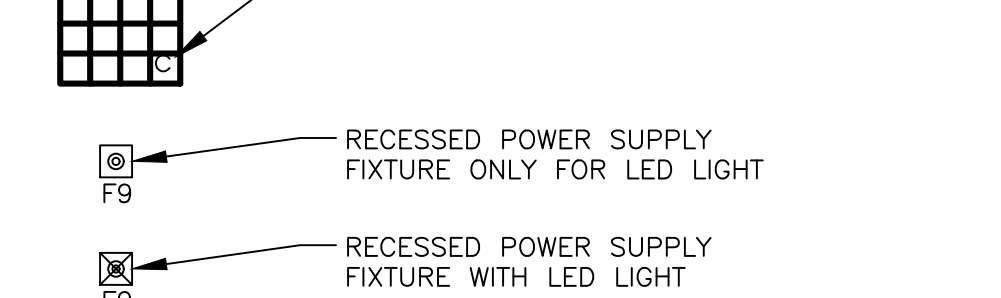
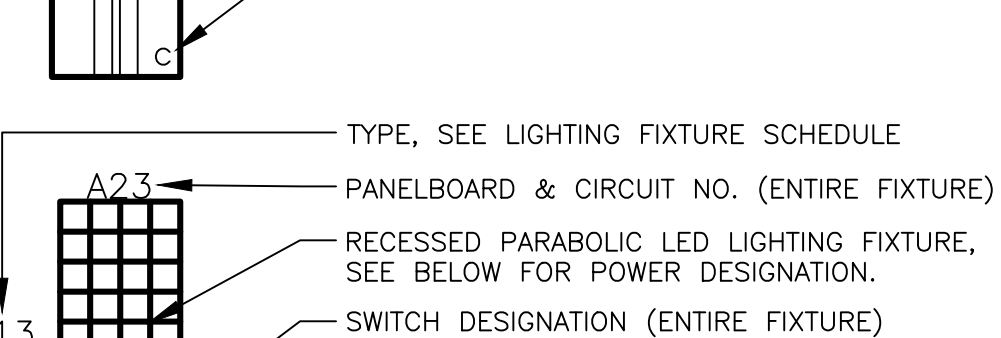
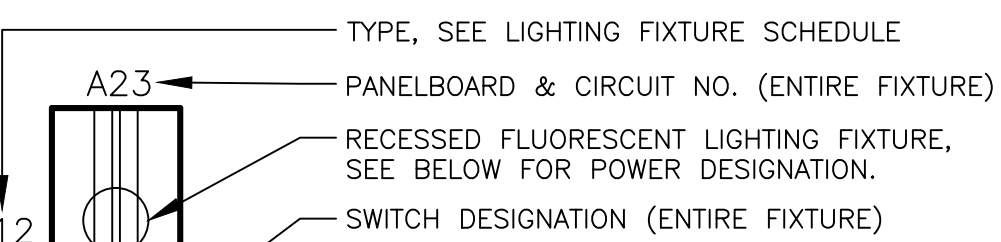
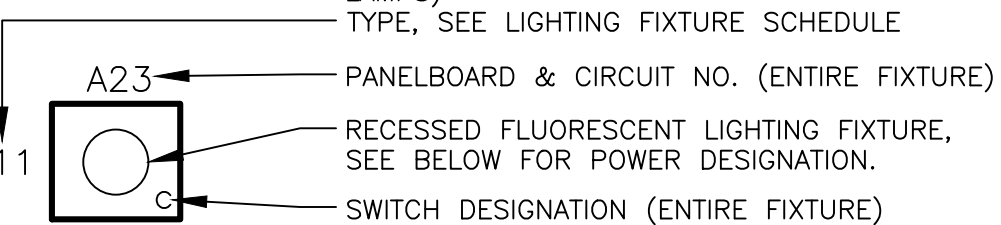
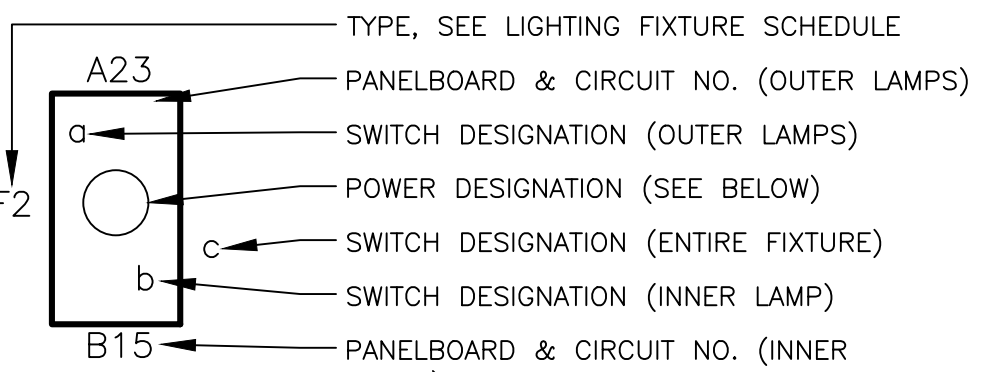
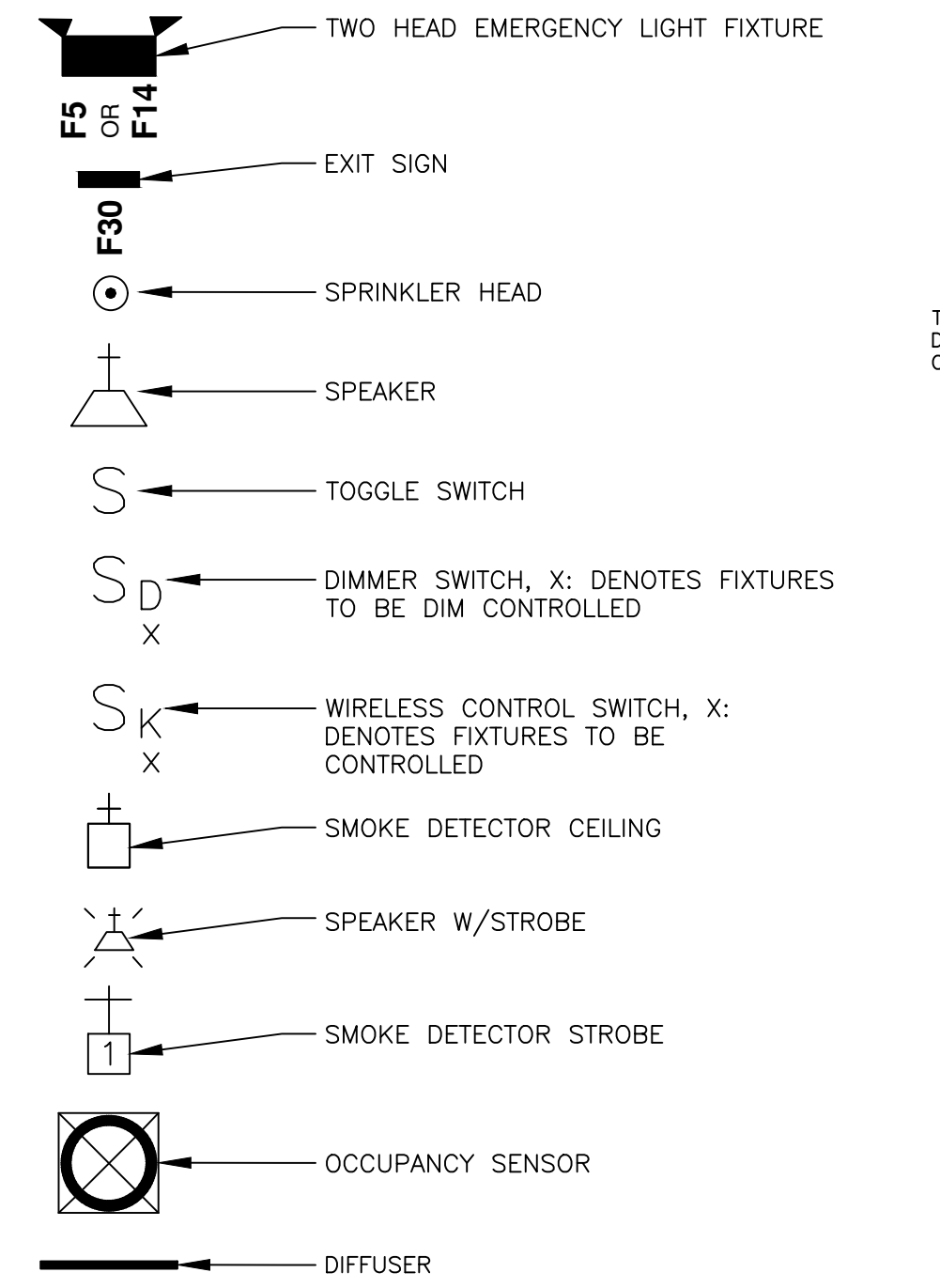
12"X6"X1/4"
GROUND BAR WITH PLEXI GLASS

FOR OFFICIAL USE ONLY

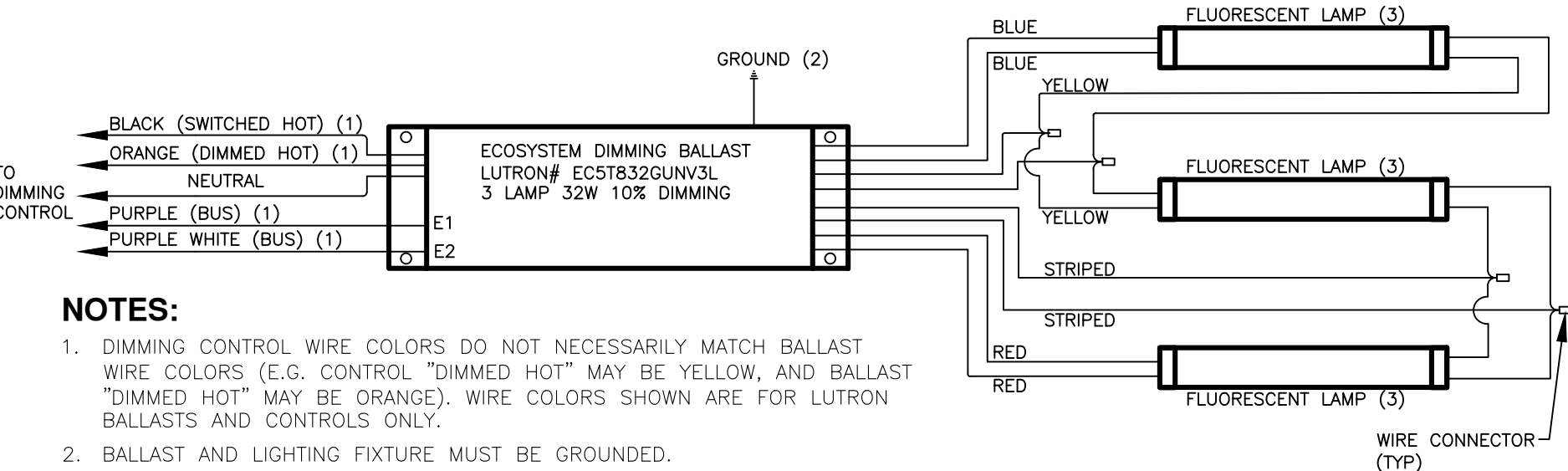
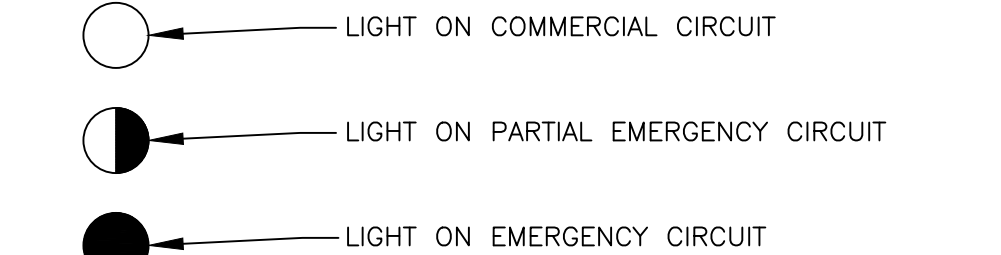
PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

A	8/03/2026	REVISED AS PER FACILITIES COMMENTS	-	-
REV	DATE	DESCRIPTION	CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 GROUNDING STANDARDS				
POMONA WILLIAM J. HUGHES TECHNICAL CENTER N.J.				
FILE : 201209-PHASE 2 REV-B.dwg				
REVIEWED BY	SUBMITTED BY		APPROVED BY	
-				
-				
-	DESIGN: S.SHAH	LE TR#: 10457	DATE: 07/07/2026	
	DRAWN: B.DANIELS	PM ORDER#: N/A	DRAWING NO.	SHEET 14 OF 27 REV.
	CHECK: M. KORZEN	PM WORK REQUEST #: -	201209-E002	A

LIGHTING LEGEND



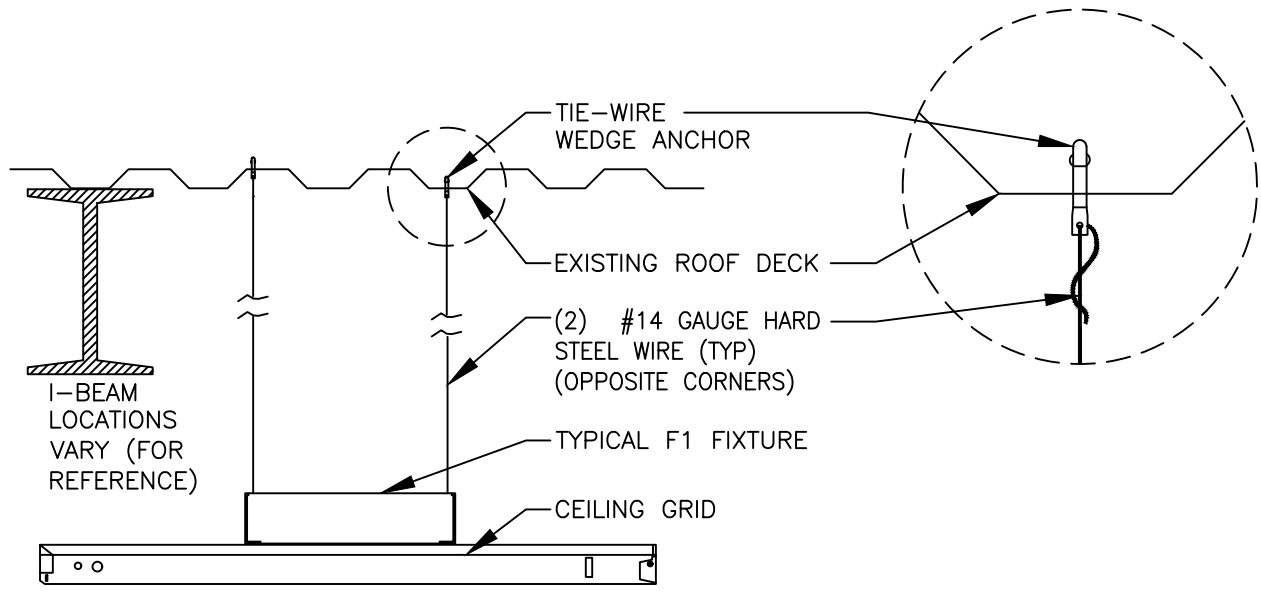
POWER DESIGNATION



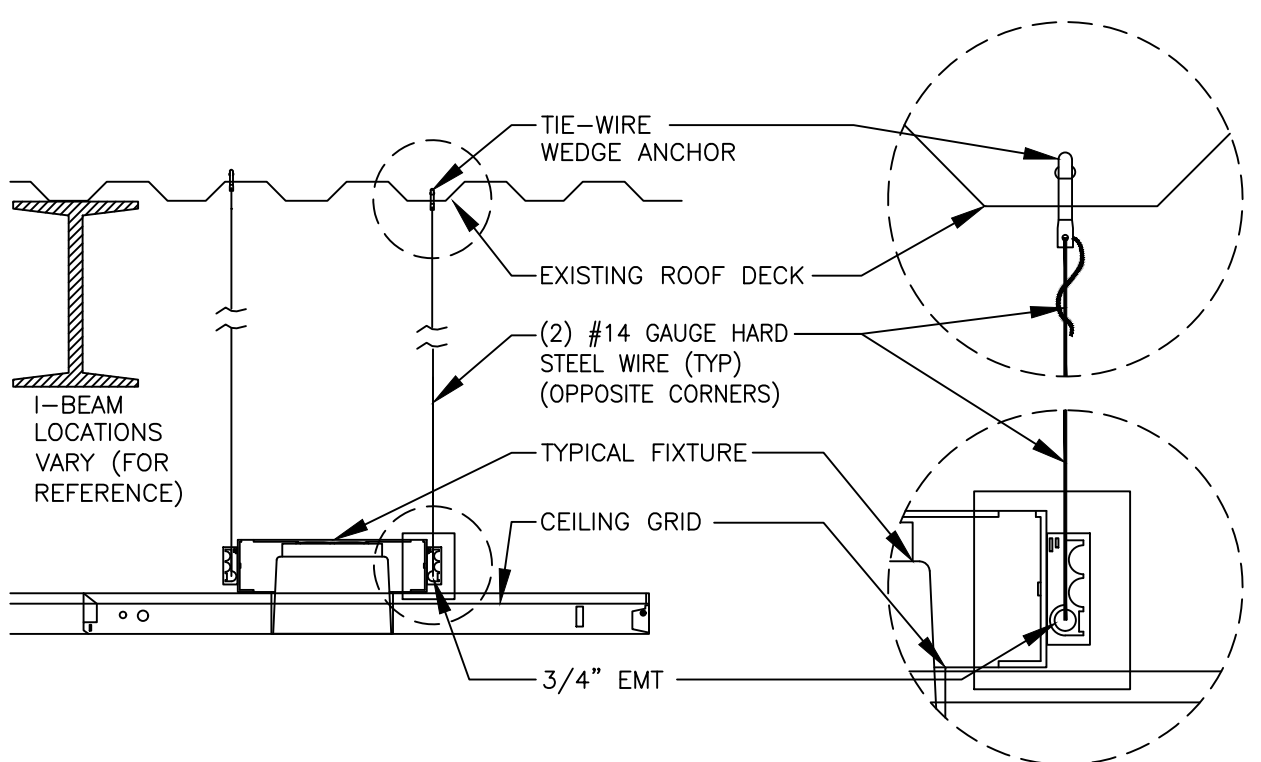
NOTES:

- DIMMING CONTROL WIRE COLORS DO NOT NECESSARILY MATCH BALLAST WIRE COLORS (E.G. CONTROL "DIMMED HOT" MAY BE YELLOW, AND BALLAST "DIMMED HOT" MAY BE ORANGE). WIRE COLORS SHOWN ARE FOR LUTRON BALLASTS AND CONTROLS ONLY.
- BALLAST AND LIGHTING FIXTURE MUST BE GROUNDED.
- INCLUDES (3) 34W T8 LAMPS.
- FOR T8 LAMPS, MAXIMUM LAMP-TO-BALLAST WIRE LENGTH IS 7 FEET (2M).

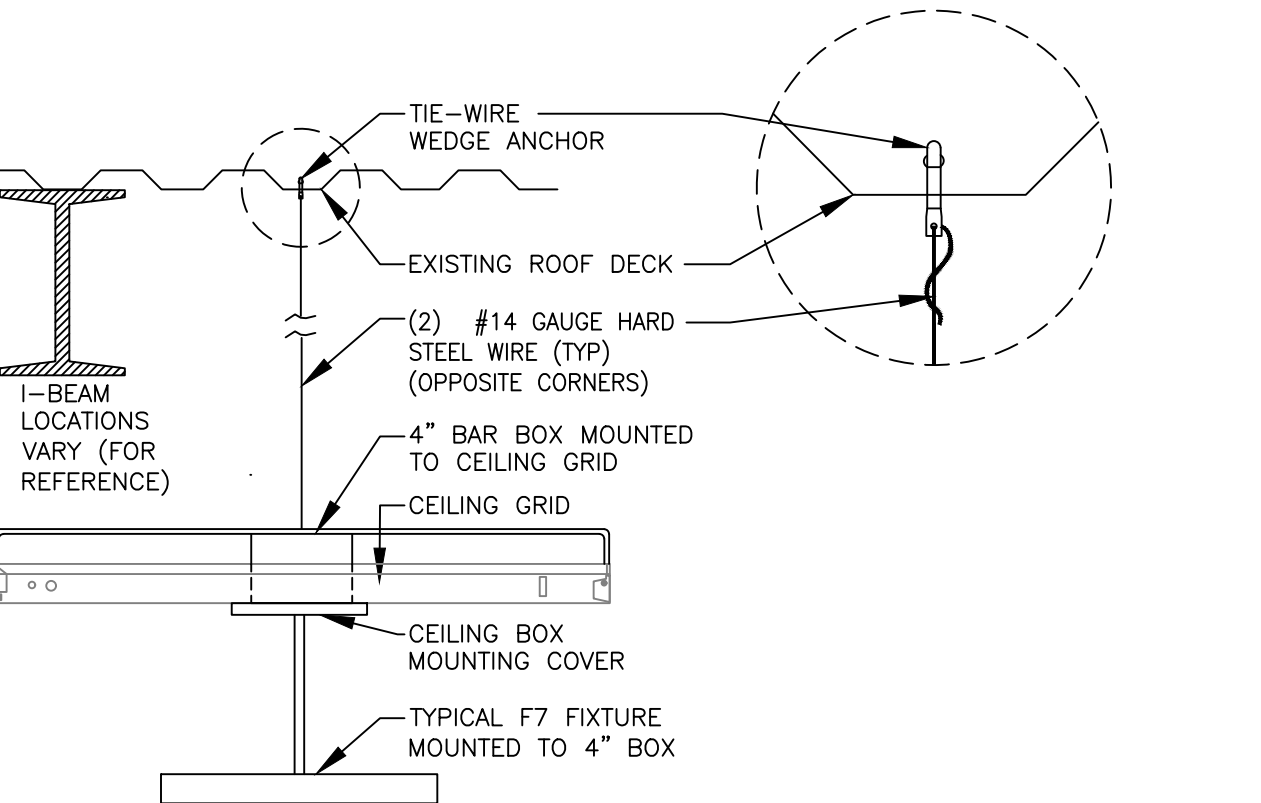
1 WIRING DIAGRAM NTS



2 2x4 LIGHT FIXTURE SUPPORT DETAIL NTS



3 EGRESS LIGHT FIXTURE SUPPORT DETAIL NTS



4 FLUORESCENT INDIRECT LIGHT FIXTURE SUPPORT DETAIL (F7-TYP.) NTS

SCHEDULE OF LIGHTING FIXTURES

LIGHT FIXTURES								
TYPE	DESCRIPTION	LAMP TYPE	WATTS	FIXTURE WATTAGE	VOLTS	MOUNTING	MFG & CATALOG #	REMARKS
F4	EDGE LIT EXIT SELF POWERED EMERGENCY LED LAMP	LED	1.1	1.1	277	SURFACE	SURE LITE / EUX8RWH	LED EXIT LIGHT SURFACE MOUNT
F21	2'x2' 3.5" RECESSED LED STATIC TROFFER	LED	39	39	277	RECESSED	LSI INDUSTRIES ASC22 LED HO NW UE LDEI	LED ACS RECESSED 2'x2', COOL WHITE, MAINT. FREE
F22	2'x2' 3.5" RECESSED LED STATIC TROFFER	LED	39	39	277	RECESSED	LSI INDUSTRIES ASC22 LED 40L UNV DIM1 40 BB90	LED ACS RECESSED 2'x2', COOL WHITE, W/ BATT. BACKUP
OS1	POWPACK DIMMING MODULE WITH ECOSYSTEM	LED	2.75	N/A	277	CEILING (IN-JB)	LUTRON URMJ-ECO32-DVB	POWPACK DIMMING MODULE
OS2	RADIO POWER SAVE WIRELESS OCCUPANCY SENSOR	N/A	3 VDC	N/A	N/A	CEILING	LUTRON LRF2-OCR2B-P-WH	WIRELESS OCCUPANCY SENSOR
D1	LUTRON DIMMER SWITCH FOR 0-10V LED FIXTURES	N/A	N/A	N/A	0-10V DC	SURFACE	LUTRON PJ2-3BRL-GWH-L01R	DIMMER SWITCH

LIGHTING & CEILING GENERAL NOTES

- THE REMOVAL OF EXISTING BRANCH CIRCUIT WIRING MUST BE LIMITED TO THE AREA(S) INDICATED; INTEGRITY OF CIRCUITS AND OCCUPANCY SENSORS SERVING ADJACENT AREA(S) MUST BE MAINTAINED.
- PROTECT ALL EQUIPMENT IN WORK AREA FROM DUST AND DEBRIS THAT WILL FALL FROM ABOVE CEILING AREA. THE PROTECTION MUST NOT RESTRICT EQUIPMENT AIR FLOW AND VENTILATION OPENINGS. COORDINATE WITH USER OF EQUIPMENT. CLEAN ANY DUST OR DEBRIS THAT HAS FALLEN AT END OF EACH WORK DAY.
- BEFORE ANY WORK IS STARTED ABOVE THE FINISHED CEILING, FIRE INSPECTORS (FI) MUST BE NOTIFIED 5 WORKING DAYS IN ADVANCE TO DEACTIVATE SMOKE DETECTORS IN THE WORK AREA. THIS IS ACCOMPLISHED BY CALLING THE CONTRACTING OFFICER. CONTRACTOR MUST WAIT FOR A REPLY FROM (FI) BEFORE STARTING WORK.
- PANELBOARDS L-26A AND L-26B SERVE NORMAL LIGHTING LOCATED ON THE 2ND FLOOR COLUMN H24. EL-26A AND EL-26B SERVE EMERGENCY LIGHTING LOCATED ON THE 2ND FLOOR COLUMN H24. PANELBOARDS L-36A AND L-36B SERVE NORMAL LIGHTING LOCATED ON THE 3RD FLOOR COLUMN H23 BUILDING 300.
- CONTRACTOR MUST HAVE THE UNDERSTANDING THAT THE WORK AREA WILL CONTAIN EXISTING EQUIPMENT AND FURNITURE THAT MAY HAVE TO BE MOVED DURING INSTALLATION. ALL MOVES MUST BE COORDINATED WITH COTR OR SEI. ALL ITEMS MOVED MUST BE RETURNED TO ORIGINAL POSITION.
- TRACE AND VERIFY THE EXISTING LIGHTING CIRCUITS TO BE REMOVED (IN RED) PRIOR TO DE-ENERGIZING AND REMOVING.
- CONTRACTOR IS RESPONSIBLE FOR RECONFIGURING EXISTING CEILING TILES AND INSTALLING NEW TILES TO FILL ALL OPENINGS FROM REMOVED FIXTURES. THE FAA WILL RETAIN ALL UNUSED TILES. CONTRACTOR MUST BE RESPONSIBLE FOR PROVIDING ANY/ALL CEILING GRID STRINGERS AND ASSOCIATED ITEMS TO INSTALL LIGHT FIXTURES IN THE FINISHED CEILING. UPON COMPLETION OF JOB ALL CEILING TILES MUST BE CLEAN AND PLACED IN THEIR ORIGINAL POSITION. ANY DAMAGED CEILING TILES MUST BE REPLACED BY CONTRACTOR.

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

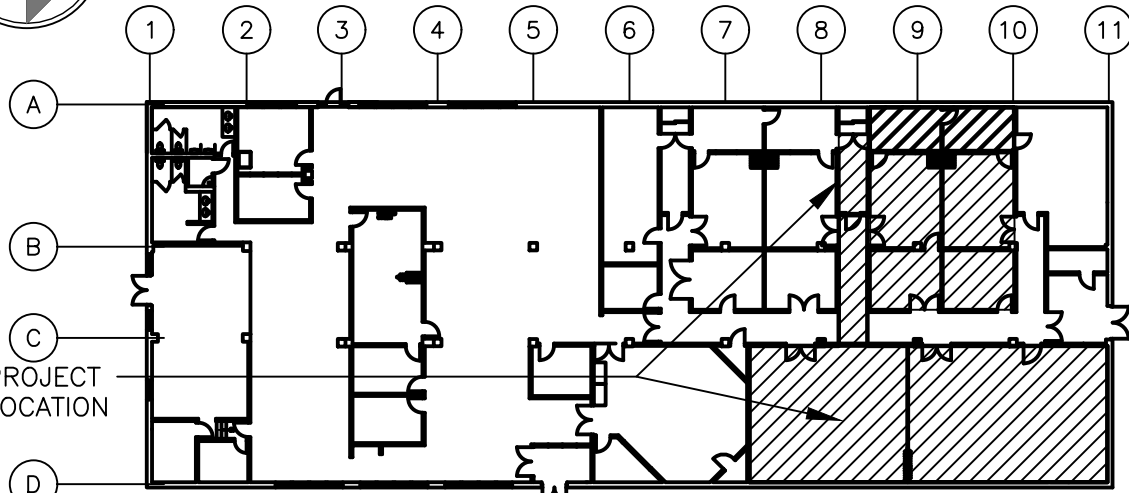
B	08/06/2026	REVISED AS PER FACILITIES COMMENTS	-	-	
REV	DATE	DESCRIPTION	CHECK	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 LIGHTING NOTES AND LEGENDS					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER		N.J.	
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
-					
-					
-					
-					
	DESIGN: S.SHAH	LE TRF#: 10457	DATE: 07/07/2026		
	DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.		SHEET 15 OF 27
	CHECK: M. KORZEN	FM WORK REQUEST #:	201209-E003		REV. B

PROJECT NOTES

- 1 PROVIDE AND INSTALL NEW PANEL (BCPL1 AND BCPL2) IN THE AREA AS SHOWN. REFER TO PANEL SCHEDULE FOR MORE DETAILS.
- 2 PROVIDE AND INSTALL NEW MAIN (J1) JUNCTION BOX AS SHOWN.
- 3 PROVIDE AND INSTALL NEW SECONDARY (J2) JUNCTION BOXES AS SHOWN.
- 4 PROVIDE AND INSTALL NEW WHIPS TO JUNCTION BOXES AS SHOWN.
- 5 PROVIDE AND INSTALL NEW RECEPTACLES IN NEW AREA AS SHOWN.
- 6 PROVIDE AND INSTALL NEW 2" EMT CONDUIT TO NEW JUNCTION BOXES AS SHOWN.
- 7 INSTALL NEW UPS (GFE) AND NEW PDU (GFE) AS SHOWN.
• PDU : APC NETSHELTER METERED RACK 208V , MFG : AP8858NA3
• UPS : APC SMART-UPS ON-LINE, 8KVA/8KW, RACKMOUNT 6U, 208V, MFG: SRT8KRMXL1
- 8 PROVIDE AND INSTALL (11) DUPLEX RECEPTACLES , MOUNT IT ON THE WALL AT LEAST 18 INCHES AFF.
- 9 INSTALL EPO (EMERGENCY POWER OFF) BUTTON IN A PLEXI GLASS COVERED BOX AND WIRE IT DIRECTLY INTO THE PANEL BCPL1 CIRCUITS (BCPL1-1, BCPL1-3, BCPL1-5, BCPL1-7, PCPL1-9).

GENERAL NOTES

1. DO NOT WORK ON ANY LIVE CIRCUITS. LOTO ALL EQUIPMENT BEFORE WORK IS PERFORMED.
2. DRAWING REPRESENTS THE PREFERRED EQUIPMENT AND CONDUIT LAYOUT, THE FINAL CONDUIT LAYOUT IS TO BE FIELD DETERMINED.
3. APPLY LABELS AND RACEWAY LABELS ON EACH PIECE OF EQUIPMENT THAT ARE BEING WORKED ON. REFER TO E901 FOR ADDITIONAL INFORMATION ON LABELING.



28-1 KEY PLAN

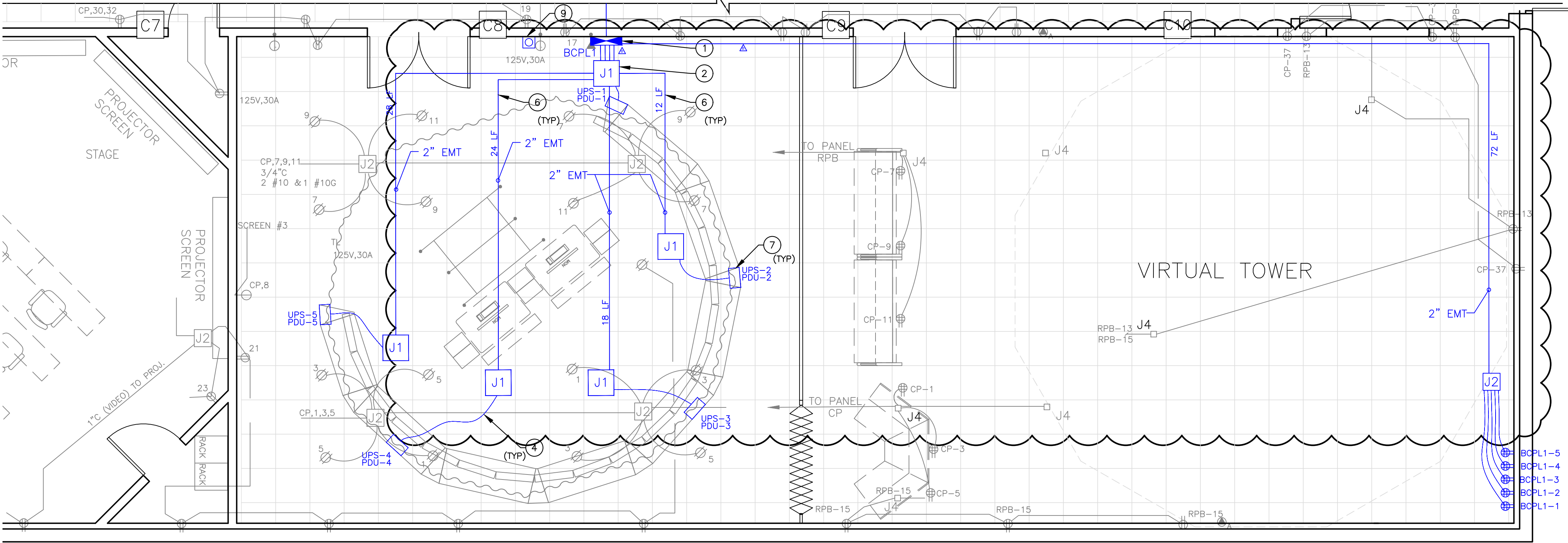
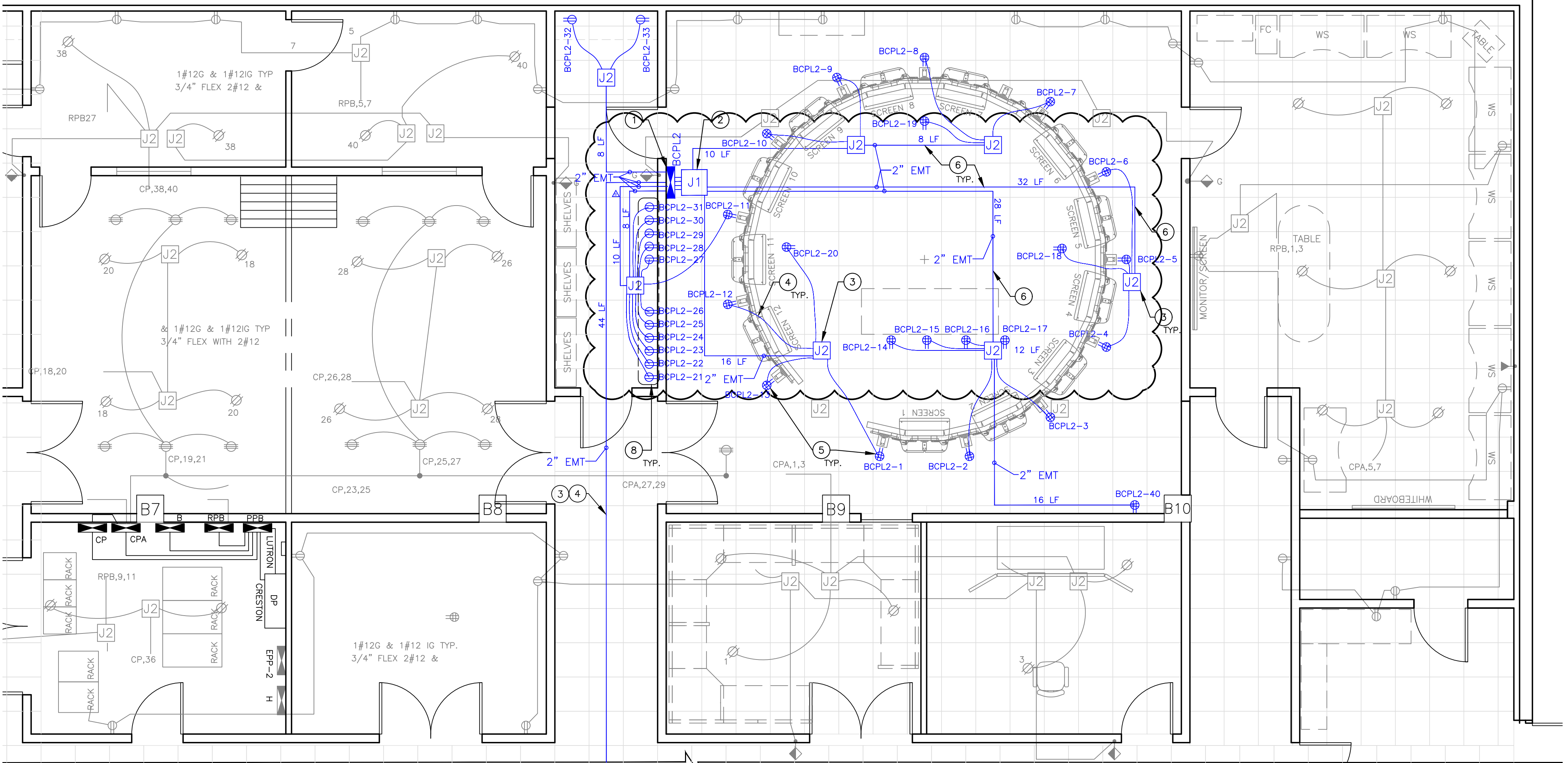
LEGEND

NEW WORK

FOR OFFICIAL USE ONLY

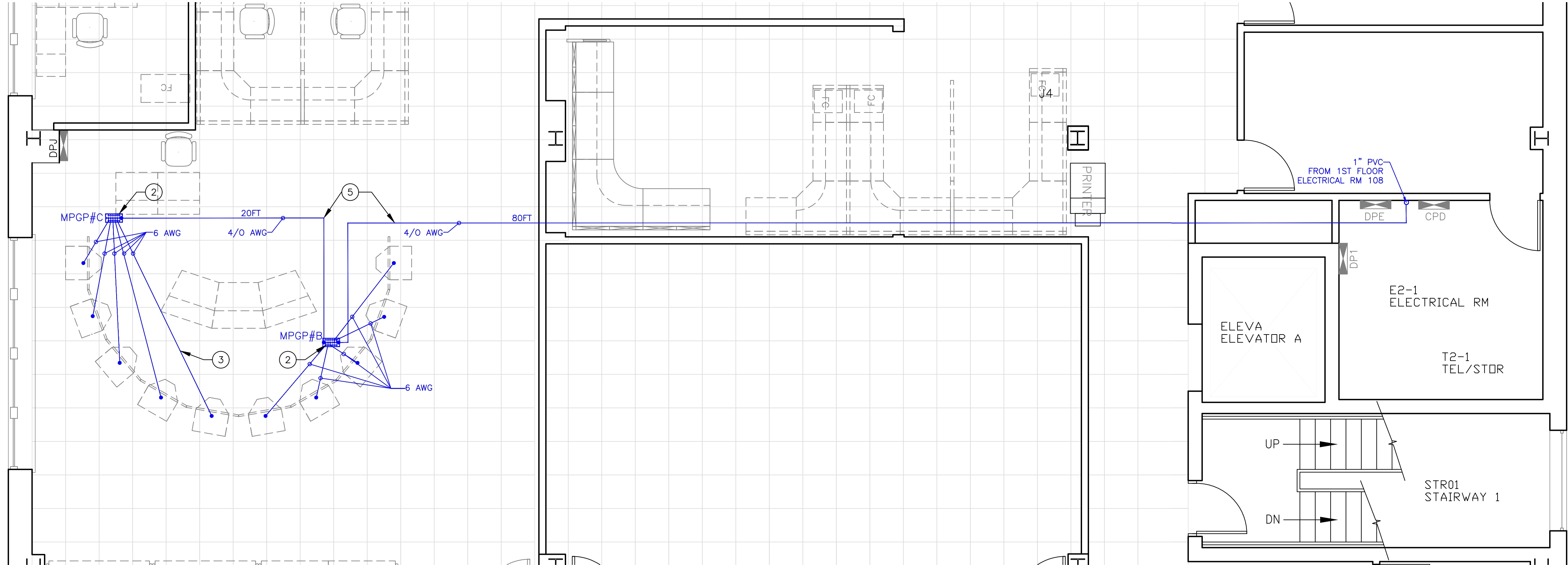
PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

B	08/06/2026	REVISED AS PER FACILITIES COMMENTS			
A	08/03/2026	REVISED AS PER FACILITIES COMMENTS			
REV	DATE	DESCRIPTION	CHECK	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 UNDERFLOOR POWER PLAN – NEW WORK FIRST FLOOR – BUILDING 28-1					
POMONA WILLIAM J. HUGHES TECHNICAL CENTER N.J.					
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
-					
-					
-	DESIGN: S.SHAH	LE TRF#: 10457	DATE: 07/07/2026		
	DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.	SHEET 17 OF 27	REV.
	CHECK: M.KORZEN	FM WORK REQUEST #:	201209-E102		B

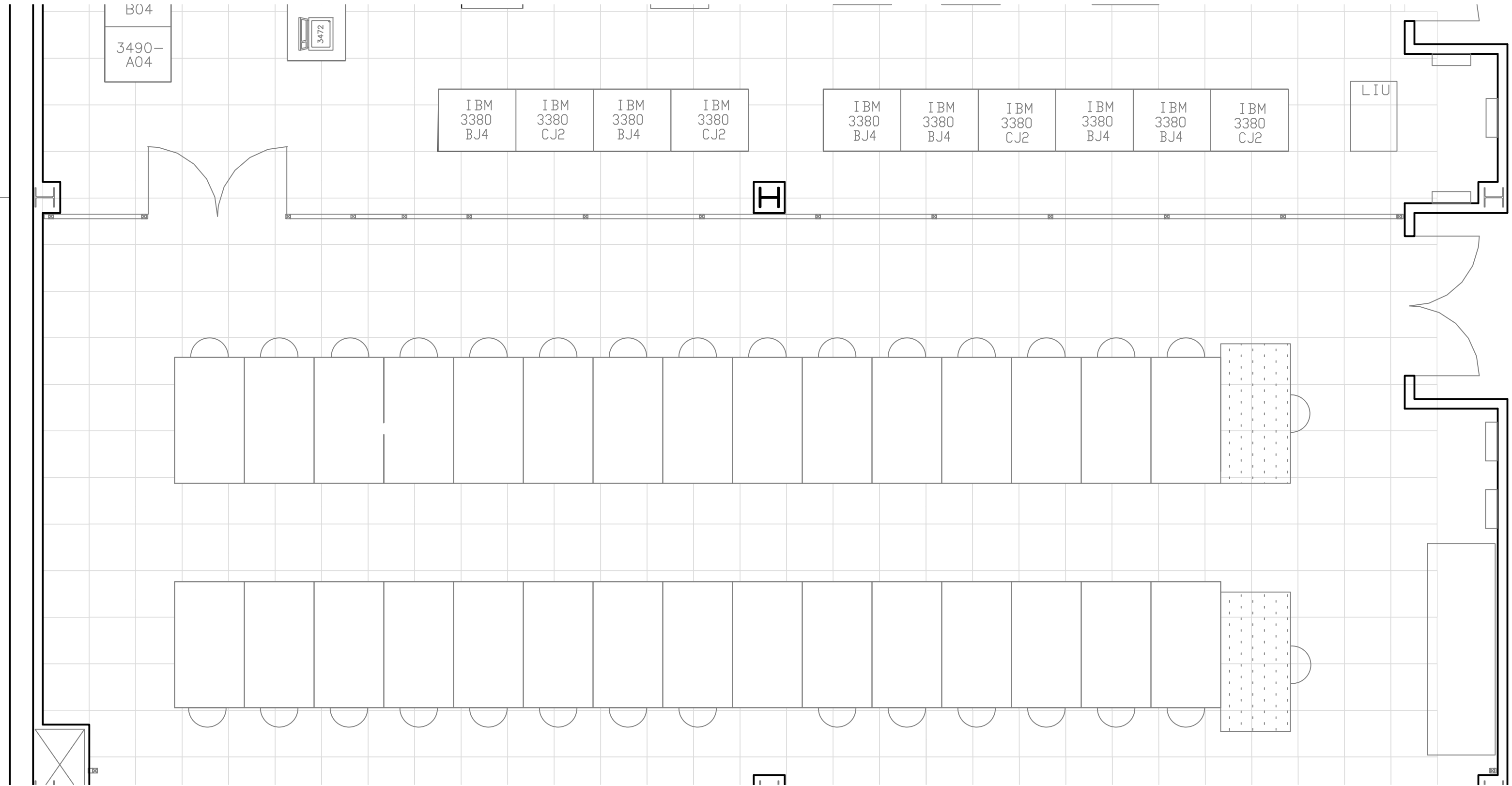


UNDERFLOOR POWER PLAN BLDG. 28 - NEW WORK

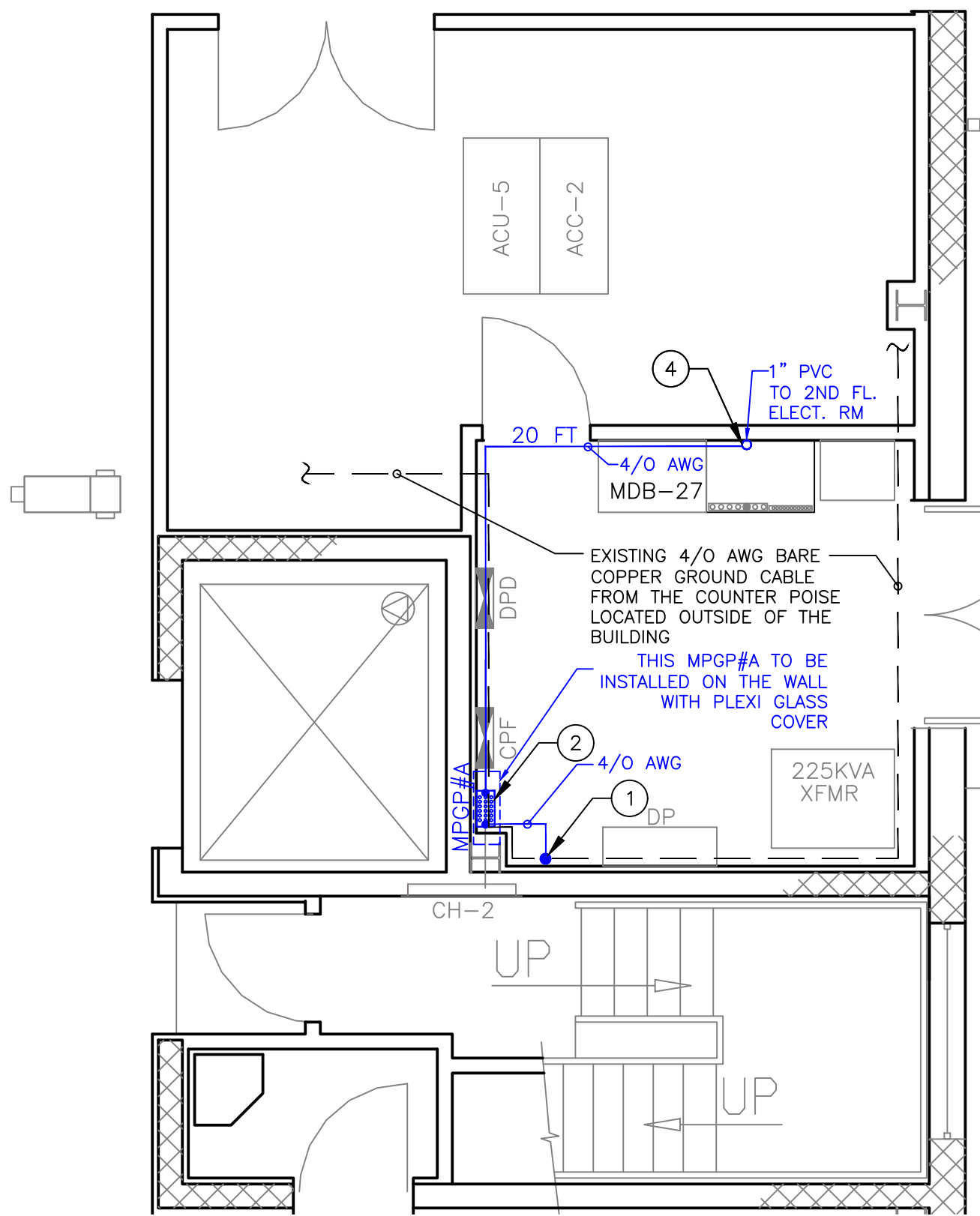
SCALE 1/4" = 1'-0"



UNDERFLOOR GROUNDING PLAN BLDG. 27 - 2ND FLOOR
SCALE 1/4" = 1'-0"



GROUNDING PLAN BLDG. 27 - 1ST FLOOR
SCALE 1/4" = 1'-0"

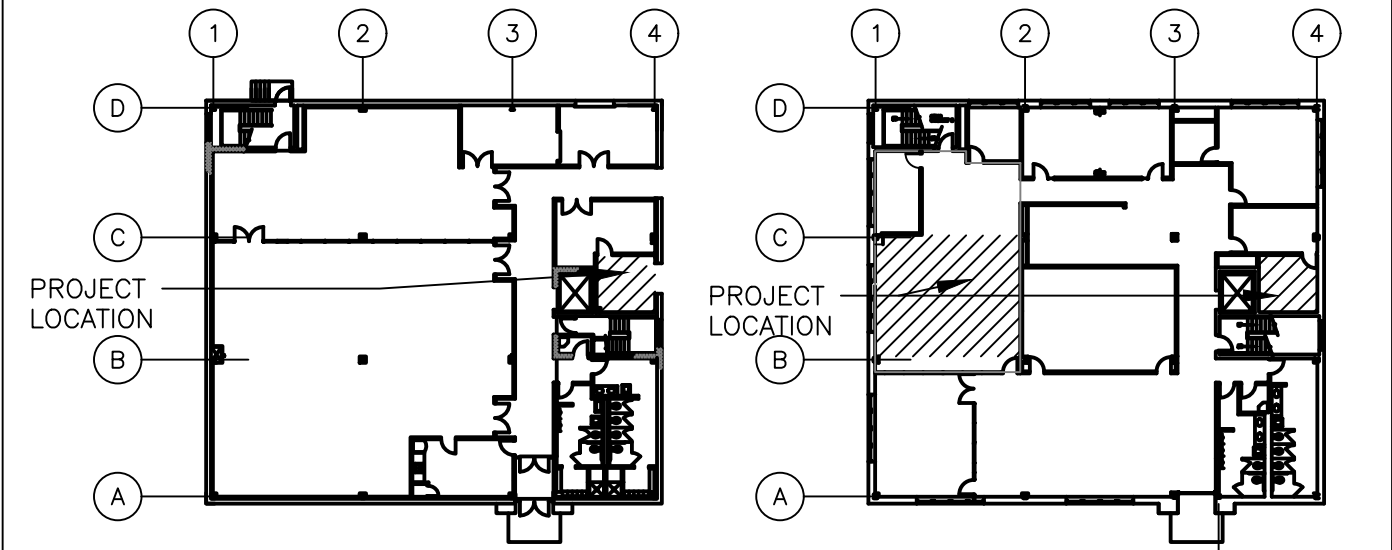
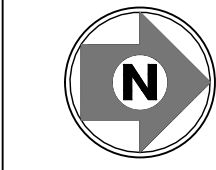


PROJECT NOTES

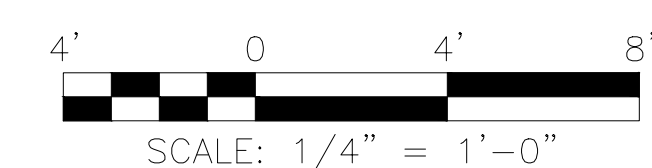
- 1 CADWELD THE EXISTING 4/0 BARE GROUND WIRE WITH YAZV282NTCFX LUGS AND RUN THE NEW 4/0 INSULATED GROUND WIRE TO THE NEW MPGP#A (MULTIPOINT GROUND PLATE) ON THE WALL AS SHOWN ON THIS DRAWING. USE GREEN WIRE WITH ORANGE STRIPE.
- 2 PROVIDE AND INSTALL (3) COPPER GROUND BAR 12"x6"x1/4". SEE ILLUSTRATIVE EXAMPLE ON SHEET E002. FOLLOW FAA-STD-019G TABLES 3, 4, AND 5 FOR CONDUCTOR SIZING BASED ON CABLE LENGTH. SEE ILLUSTRATIVE EXAMPLE ON SHEET E002.
- 3 PROVIDE AND INSTALL#6 AWG INSULATED COPPER GROUND WIRE. RUN GREEN WITH ORANGE TRACERS INSULATED WIRE FROM MPGP#(X) GROUND BARS DOWN TO THE FURNITURE AS SHOWN ON THIS DRAWING. USE KIT LUGS FOR WIRE TERMINATIONS.
- 4 PROVIDE AND INSTALL SCHEDULE 40 1" PVC FROM THE 1ST FLOOR AS SHOWN ON THE DRAWING TO E2-1 (ELECTRICAL RM) TO THE 2ND FLOOR AS SHOWN ON THIS DRAWING.
- 5 PROVIDE AND INSTALL NEW 4/0 INSULATED GROUND WIRE AS SHOWN ON THIS DRAWINGS. USE GREEN WITH ORANGE STRIPE.

GENERAL NOTES

- A. DRAWING E002 REFERENCING FAA STANDARD FAA-STD-019G FOR GROUNDING AND LABELING OF GROUND PLATES.



27-1 KEY PLAN 27-2 KEY PLAN



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

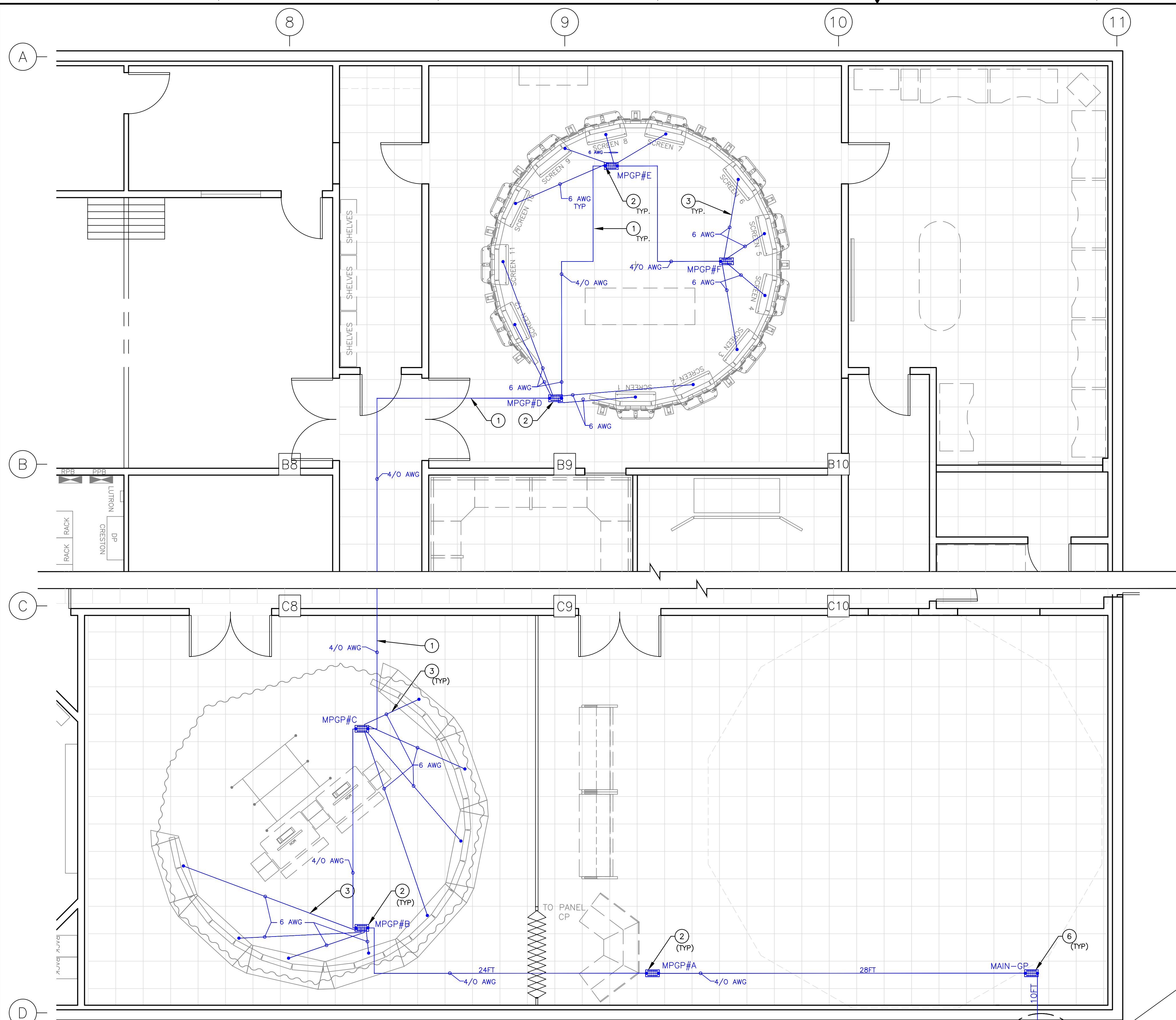
LEGEND	
	NEW WORK

FOR OFFICIAL USE ONLY

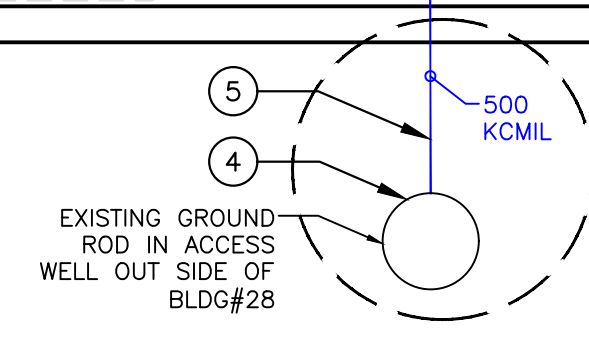
PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

REV	DATE	DESCRIPTION	CHECK	APVD
-	-	-	-	-
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 GROUNDING PLANS FIRST AND SECOND FLOOR - BUILDING 27-1&2				
POMONA WILLIAM J. HUGHES TECHNICAL CENTER N.J.				
FILE : 201209-PHASE 2 REV-B.dwg				
REVIEWED BY		SUBMITTED BY		APPROVED BY
-	-	-	-	-
-	-	DESIGN: C.MENCHIN	LE TRF: 10457	DATE: 07/07/2026
-	-	DRAWN: B.DANIELS	FM ORDER: N/A	DRAWING NO. SHEET 18 OF 27 REV.
-	-	CHECK: M.KORZEN	FM WORK REQUEST #:	201209-E103

PRINTED : 15:21 ON 08/26/26
DESIGNED : 08/26/26
MODIFIED : 08/26/26 AT 15:13
WHO : Bruce A-GTR Daniels



UNDERFLOOR GROUNDING PLAN BLDG. 28 - NEW WORK
SCALE 1/4" = 1'-0"



GROUNDING ROD ACCESS
ELEVATION BLDG. 28
SCALE H.T.S.

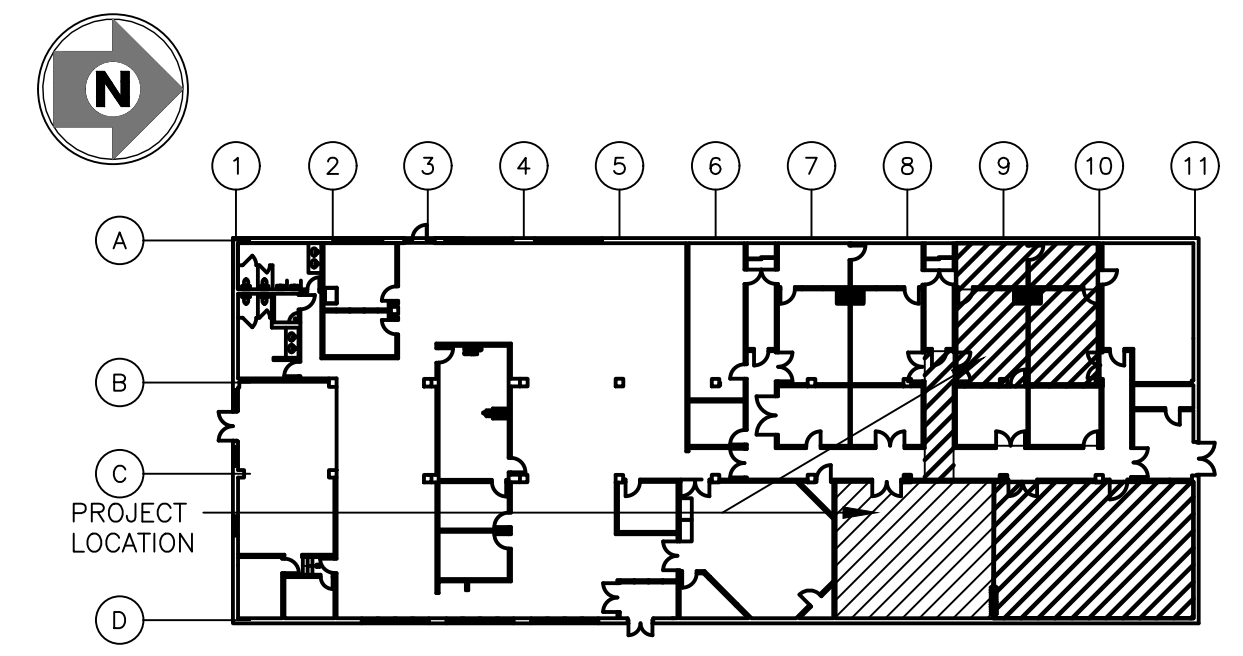


PROJECT NOTES

1. PROVIDE AND INSTALL 4/0 INSULATED COPPER STRANDED WIRE WITH YAZV282NTCFX LUGS ON EACH END AND BOND NEW BUSBARS TOGETHER AS SHOWN. USE GREEN WIRE WITH ORANGE STRIPE. REFER TO FAA STANDARD FAA-STD-019G FOR GROUNDING AND LABELING OF GROUND PLATES. SEE LIGHTING SCHEDULE ON SHEET E003.
2. PROVIDE AND INSTALL (6) MPGP#X (MULTIPOINT GROUND PLATE) COPPER GROUND BAR 12"x6"x1/4". SEE ILLUSTRATIVE EXAMPLE ON SHEET E003. FOLLOW FAA-STD-019G TABLES 3, 4, AND 5 FOR CONDUCTOR SIZING BASED ON CABLE LENGTH. SEE ILLUSTRATIVE EXAMPLE ON SHEET E002.
3. PROVIDE AND INSTALL#6 AWG INSULATED COPPER GROUND WIRE. RUN GREEN WITH ORANGE TRACERS INSULATED WIRE FROM MPGP#(X) GROUND BARS DOWN TO THE FURNITURE AS SHOWN ON THIS DRAWING. USE KIT LUGS FOR WIRE TERMINATIONS.
4. EXISTING GROUND ROD IN AN ACCESS WELL OUTSIDE OF BLDG#28 NEAR PARKING AREA. PROVIDE AND INSTALL NEW COVER OF AN ACCESS WELL.
5. PROVIDE AND INSTALL 500kcmil INSULATED COPPER GROUND WIRE IN SCHEDULE 80 1" PVC FROM THE EXISTING ACCESS WELL TO THE MAIN GROUND PLATE AS SHOWN ON THE DRAWING. USE GREEN WIRE WITH RED STRIPE.
6. PROVIDE AND INSTALL (1) MAIN-GP(MAIN GROUND PLATE) COPPER GROUND BAR 12"x6"x1/4". SEE ILLUSTRATIVE EXAMPLE ON SHEET E003. FOLLOW FAA-STD-019G TABLES 3, 4, AND 5 FOR CONDUCTOR SIZING BASED ON CABLE LENGTH. SEE ILLUSTRATIVE EXAMPLE ON SHEET E002.

GENERAL NOTES

1. DO NOT WORK ON ANY LIVE CIRCUITS. LOTO ALL EQUIPMENT BEFORE WORK IS PERFORMED.
2. DRAWING REPRESENTS THE PREFERRED EQUIPMENT AND CONDUIT LAYOUT, THE FINAL CONDUIT LAYOUT IS TO BE FIELD DETERMINED.
3. APPLY LABELS AND RACEWAY LABELS ON EACH PIECE OF EQUIPMENT THAT ARE BEING WORKED ON. REFER TO E901 FOR ADDITIONAL INFORMATION ON LABELING.



28-1 KEY PLAN

4' 0 4' 8' 12'
SCALE: 3/16" = 1'-0"

LEGEND

NEW WORK

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-	-		-	-
REV	DATE	DESCRIPTION			CHECK APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 GROUNDING PLAN - NEW WORK FIRST FLOOR - BUILDING 28-1					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
-					
-					
-					
-		DESIGN: S.SHAH	LE TRF#: 10457	DATE: 07/07/2026	
		DRAWN: B.DANIELS	PM ORDER#: N/A	DRAWING NO.	
		CHECK: M.KORZEN	PM WORK REQUEST #:	201209-E104	
				SHEET 19 OF 27	REV. -

PRINTED : 15:21 ON 06/26/26
PLOTTER : HP DesignJet T1100
MODIFIED : 06/24/26 AT 15:13
WHO : Bruce A-GTR Daniels

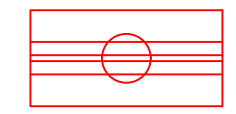
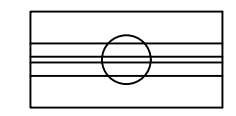
PROJECT NOTES

- 1 REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURES AS SHOWN.
- 2 REMOVE AND DISPOSE OF OCCUPANCY SENSORS AS SHOWN.

GENERAL NOTES

- DO NOT WORK ON ANY LIVE CIRCUITS. LOTO ALL EQUIPMENT BEFORE WORK PERFORMED.
- DEMO EXISTING LIGHTING SWITCHES IN ROOM.
- PROVIDE TEMPORARY LIGHTING CONSISTING OF LED LAMPS RATED AT A MINIMUM OF 1600 LUMENS PER LAMP, INSTALLED ON TEMPORARY LIGHTING STRINGERS WITH LAMP HOLDERS SPACED APPROXIMATELY 10'-0" O.C., PRIOR TO DEMOLITION OF THE EXISTING LIGHT FIXTURES.

CEILING FIXTURE LEGEND

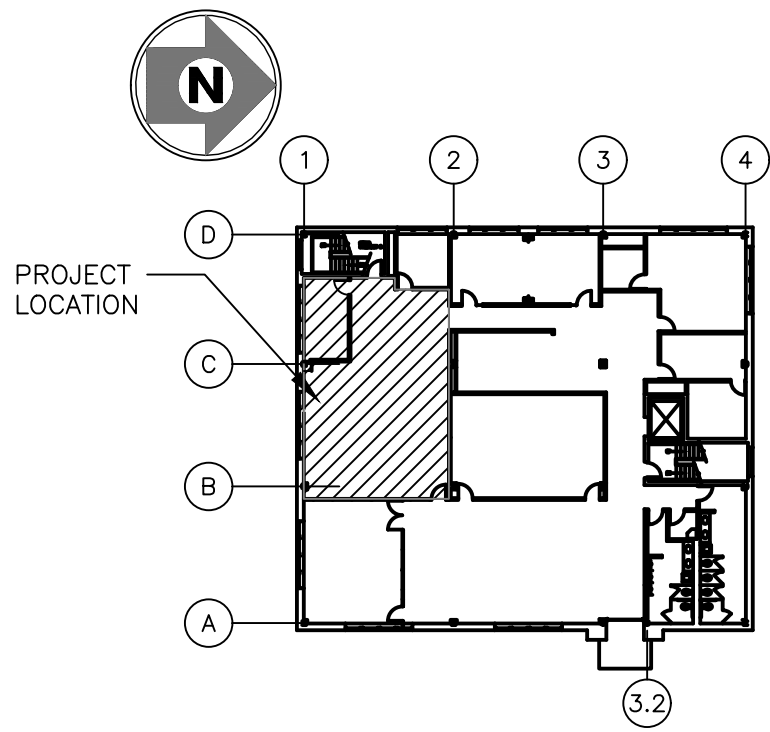
-  2'x4' FLUORESCENT LIGHTING FIXTURE TO BE REMOVED
-  2'x4' LED LIGHTING FIXTURE
-  EXIT SIGN
-  2 SIDED EXIT SIGN
-  EXIT SIGN W/ ARROW
-  2 SIDED EXIT SIGN W/ ARROWS
-  WIFI EQUIPMENT
-  TWO HEAD EMERGENCY LIGHT FIXTURE
-  OCCUPANCY SENSOR
-  WALL MOUNTED LIGHT SWITCH

LEGEND

DEMO-UNLESS NOTED OTHERWISE

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552



27-2 KEY PLAN

LIGHTING PLAN BLDG. 27 - DEMOLITION

SCALE 1/4" = 1'-0"

-	-	-		-	-
REV	DATE	DESCRIPTION		CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 LIGHTING PLAN – DEMOLITION SECOND FLOOR – BUILDING 27-2					
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.
FILE : 201209-PHASE 2 REV-B.dwg					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
-					
-					
-					
-		DESIGN: S.SHAH	LE TR#: 10457	DATE: 07/07/2026	
		DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO. SHEET 20 OF 27	
		CHECK: M.KORZEN	FM WORK REQUEST #:	201209-E105	
		-		REV. -	

PROJECT NOTES

- 1 PROVIDE AND INSTALL 2'X2' LED LIGHTS AS SHOWN. (19) TYPICAL. INSTALL THE LED LIGHTS PER MANUFACTURER SPECIFICATIONS. SEE LIGHTING SCHEDULE ON SHEET E003.
- 2 PROVIDE AND INSTALL 2'X2' EMERGENCY LIGHT FIXTURES AS SHOWN (8) TYPICAL. SEE LIGHTING SCHEDULE ON SHEET E002.
- 3 PROVIDE AND INSTALL (3) SWITCHES IN EACH AREA AS INDICATED ON THIS DRAWING. INSTALL THE LED SWITCHES PER MANUFACTURER SPECIFICATIONS.
- 4 PROVIDE AND INSTALL (4) EXIT SIGNS AS SHOWN. SEE LIGHTING SCHEDULE ON SHEET E002.
- 5 PROVIDE AND INSTALL (3) OCCUPANCY SENSOR IN EACH AREA AS INDICATED ON DRAWING, PER MANUFACTURER SPECIFICATIONS. SEE LIGHTING SCHEDULE ON SHEET E002.

GENERAL NOTES

- A. DO NOT WORK ON ANY LIVE CIRCUITS. LOTO ALL EQUIPMENT BEFORE WORK PERFORMED.

CEILING FIXTURE LEGEND

- 2x2 LED LIGHTING FIXTURE
F21
- 2x2 LED LIGHTING FIXTURE
SOLID CENTER INDICATES
EMERGENCY CIRCUIT
F22
- EXIT SIGN
- 2 SIDED EXIT SIGN
- EXIT SIGN W/ ARROW
- 2 SIDED EXIT SIGN
W/ ARROWS
- WIFI EQUIPMENT
- LIGHTING SECTOR
- TWO HEAD EMERGENCY
LIGHT FIXTURE
- OCCUPANCY SENSOR
OS2
- WALL MOUNTED LIGHT SWITCH
\$

LEGEND

NEW WORK

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-	-	-	-
REV	DATE	DESCRIPTION		CHECK APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 – PHASE 2 LIGHTING PLAN – NEW WORK SECOND FLOOR – BUILDING 27-2				
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER		N.J.
FILE : 201209-PHASE 2 REV-B.dwg				
REVIEWED BY		SUBMITTED BY		APPROVED BY
-				
-				
-				
-	DESIGN: S.SHAH	LE TR#:	DATE: 07/07/2026	
	DRAWN: B.DANIELS	FM ORDER#:	DRAWING NO. SHEET 21 OF 27 REV.	
	CHECK: M.KORZEN	FM WORK REQUEST #:	201209-E106	
		-	-	

LIGHTING PLAN BLDG. 27 - NEW WORK

SCALE 1/4" = 1'-0"

27-2 KEY PLAN

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

POWER PANEL ABBREVIATIONS:

S: SQUARE "D"
F: FEDERAL PACIFIC
W: WESTINGHOUSE
SS: SIEMENS
G: GENERAL ELECTRIC
E: EATON
A: FRANK ADAM

PANEL LEGEND

Voltage

H 480 VOLTS OR 480Y/277 VOLTS

L 208 VOLTS OR 208Y/120 VOLTS

MAXIMUM BUSS AMPS

A	100	F	1200
B	225	G	150
C	400	H	250
D	600	I	125
E	800	J	200

PANEL: DPE	VOLTAGE: 120/208	PHASE: 3	WIRE: 4	LOCATION: BLDG 27 2ND FLR E2-1					
MAIN LUGS ONLY	150 AMPS	SHUNT TRIP MCB	200 % NEUTRAL	REVISION DATE: 4/8/2026					
MAIN CIR. BKR.	X 65 KAIC"	IG	X	FEED: SURFACE					
FED FROM SUB:	BKR.	PANELS ON SAME FEEDER:		FEED: BOTTOM					
DESCRIPTION		WIRE SIZE	CIR. NO.	LOAD -KW	CIR. NO.	DESCRIPTION			
OFFICE LIGHTS		12	20'1	1	0.77	2	20'1	12	OFFICE LIGHTS
OFFICE LIGHTS		12	20'1	3	0.42	4	20'1	12	RANGE HOOD + COUNTER RECEPT.
COFFEE/POT		12	20'1	5	0.30	6	20'1	12	HALL LIGHTS
BRANCH OFFICE + STORAGE ROOM		12	20'1	7	0.28	8	20'1	12	BATH LIGHTS
CONFERENCE ROOM LIGHTS		12	20'1	9	0.30	10	20'1	12	COPY MACHINE
ROOF RECEPT.		12	20'1	11	0.04	12	20'1	12	COPY MACHINE
COPY + ELECTRIC RM LIGHTS		12	20'1	13	0.35	14	20'1	12	CONF. ROOM RECEPT
EXIT LIGHTS		12	20'1	15	0.07	16	20'1	12	DIV OFFICE
KIT RECEPT		12	20'1	17	0.04	18	20'1	12	CONF. ROOM RECEPT + WEST WALL
PLUG MOLD E2-1		12	20'1	19	0.08	20	20'1	12	BATH GFI
PLUG MOLD E2-1		12	20'1	21	0.68	22	20'1	12	BREAK ROOM RECEPT.
COPY ROOM RECEPT.		12	20'1	23	0.29	24	20'1	12	STORAGE + BRANCH OFFICE RECEPT.
MICROWAVE BREAK ROOM		12	20'1	25	0.06	26	20'1	12	REFRIG
GARBAGE DISPOSAL		12	20'1	27	0.22	28	20'1	12	ROOF RECEPT
EWIC 2 VAV		12	20'1	29	0.22	30	20'1	12	ELEVATOR LIGHT
EQUIP RECEPTS		12	20'1	31	0.47	32	20'1	12	HOT WATER RECIR PUMP DHWR-1
AFTL LAB GROUP DESK FURNITURE		12	20'1	33	0.17	34	20'1	12	SPACE
EQUIP RECEPTS		12	20'1	35	0.18	36	20'1	12	SPACE
EQUIP RECEPTS		12	20'1	37	0.08	38	20'1	12	UNDERFLOOR NEAR S. STAIRS
AFTL LAB GROUP DESK FURNITURE		12	20'1	39	0.18	40	20'1	12	EQUIP RECEPTS
EQUIP RECEPTS		12	20'1	41	0.06	42	20'1	12	EQUIP RECEPTS

"INTEGRATED EQUIPMENT SHORT CIRCUIT RATING (RMS SYMMETRICAL), MINIMUM VALUE. BUS BRACING, MAIN CIRCUIT BREAKER AND BRANCH CIRCUIT BREAKERS SHALL MEET OR EXCEED THIS MINIMUM.

MFR: SQD	TYPE: NQ
MAIN BREAKER TYPE: NQ	BRANCH BREAKER TYPE: QBH
LOAD SUMMARY BY PHASE	
A	2.086 KW
B	2.04 KW
C	1.116 KW
TOTAL	5.244 KW

PANEL DPE

EXISTING

PANEL SCHEDULES

PANEL: DPE	VOLTAGE: 120/208	PHASE: 3	WIRE: 4	LOCATION: BLDG 27 2ND FLR E2-1		
MAIN LUGS ONLY	150 AMPS	SHUNT TRIP MCB	EG	X	MONITORING: SURFACE	REVISION DATE: 5/21/2026
MAIN CIR. BKR.	X 65 KAIC"	200% NEUTRAL	IG		FEED: BOTTOM	
FED FROM SUB:	BKR:	PANELS ON SAME FEEDER:				
DESCRIPTION	WIRE SIZE	CIR. NO.	LOAD -KW	CIR. NO.	WIRE SIZE	DESCRIPTION
	SIZE	BKR	A B C	BKR	SIZE	
OFFICE LIGHTS	12	20'1	1	0.82	2	20'1 12 OFFICE LIGHTS
OFFICE LIGHTS	12	20'1	3	0.42	4	20'1 12 RANGE HOOD + COUNTER RECEPT
COFFEE/POT	12	20'1	5	0.30	6	20'1 12 HALL LIGHTS
BRANCH OFFICE + STORAGE ROOM	12	20'1	7	0.28	8	20'1 12 BATH LIGHTS
CONFERENCE ROOM LIGHTS	12	20'1	9	0.30	10	20'1 12 COPY MACHINE
ROOF RECEPT.	12	20'1	11	0.04	12	20'1 12 COPY MACHINE
COPY + ELECTRIC RM LIGHTS	12	20'1	13	0.35	14	20'1 12 CONF. ROOM RECEPT
EXIT LIGHTS	12	20'1	15	0.07	16	20'1 12 DIV OFFICE
KIT RECEPT	12	20'1	17	0.04	18	20'1 12 CONF. ROOM RECEPT + WEST WALL
PLUG MOLD E2-1	12	20'1	19	0.08	20	20'1 12 BATH GFI
PLUG MOLD E2-1	12	20'1	21	0.68	22	20'1 12 BREAK ROOM RECEPT.
COPY ROOM RECEPT.	12	20'1	23	0.29	24	20'1 12 STORAGE + BRANCH OFFICE RECEPT.
MICROWAVE BREAK ROOM	12	20'1	25	0.06	26	20'1 12 REFRIG
GARBAGE DISPOSAL	12	20'1	27	0.22	28	20'1 12 ROOF RECEPT
EWIC 2 VAV	12	20'1	29	0.22	30	20'1 12 ELEVATOR LIGHT
EQUIP RECEPTS	12	20'1	31	0.47	32	20'1 12 HOT WATER RECIR PUMP DHWR-1
AFTL LAB GROUP DESK FURNITURE	12	20'1	33	0.17	34	20'1 12 SPACE
EQUIP RECEPTS	12	20'1	35	0.18	36	20'1 12 UNDERFLOOR NEAR S. STAIRS
EQUIP RECEPTS	12	20'1	37	0.08	38	20'1 12 EQUIP RECEPTS
EQUIP RECEPTS	12	20'1	39	0.18	40	20'1 12 EQUIP RECEPTS
EQUIP RECEPTS	12	20'1	41	0.06	42	20'1 12 EQUIP RECEPTS

"INTEGRATED EQUIPMENT SHORT CIRCUIT RATING (RMS SYMMETRICAL), MINIMUM VALUE. BUS BRACING, MAIN CIRCUIT BREAKER AND BRANCH CIRCUIT BREAKERS SHALL MEET OR EXCEED THIS MINIMUM.

MFR: SQD	TYPE: NQ
MAIN BREAKER TYPE: NQ	BRANCH BREAKER TYPE: QBH
LOAD SUMMARY BY PHASE	
A	2.136 KW
B	2.04 KW
C	1.116 KW
TOTAL	5.292 KW

PANEL DPE

PROPOSED

PROJECT NOTES

- BCPL1 & BCPL2 ARE A NEW PANELS.
PRIOR TO WORK ON BCPL1 AND BCPL2 NOTIFY FAA POC (4) WEEKS IN ADVANCE ON OUTAGE FOR PANELS.

GENERAL NOTES

- THIS SINGLE LINE DIAGRAM IS FOR REFERENCE ONLY AND SUBJECT TO CHANGE.

LEGEND

DEMO-UNLESS NOTED OTHERWISE
NEW WORK

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

A	8/03/2026	REVISED AS PER FACILITIES COMMENTS	-	-
REV	DATE	DESCRIPTION	CHECK	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 2 SINGLE LINE DIAGRAM AND PANEL SCHEDULES				
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER		N.J.
FILE : 201209-PHASE 2 REV-B.dwg				
REVIEWED BY	SUBMITTED BY		APPROVED BY	
-				
-				
-	DESIGN: S.SHAH	LE TRF#: 10457	DATE: 07/07/2026	
	DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.	SHEET 24 OF 27 REV.
	CHECK: M.KORZEN	FM WORK REQUEST #:	201209-E601	A

PANEL	PANEL-A	VOLTAGE	120/208	PHASE	3	WIRE	4	LOCATION	BLDG 28, COL C1	REVISION DATE	4/1/2026
MAIN LUGS ONLY	X	150	AMPS	SHUNT TRIP MCB	EG	X		MOUNTING SURFACE			
MAIN CIR. BKR		10	KAIC	200 % NEUTRAL	X	IG		FEED	TOP		
FED FROM SUB				BKR				PANELS ON SAME FEEDER			
DESCRIPTION	WIRE SIZE	CIR. BKR	CIR. NO.	LOAD -KW	CIR. NO.	CIR. BKR	WIRE SIZE	DESCRIPTION	WIRE SIZE	CIR. BKR	CIR. NO.
LIGHTS RM 110	10	20/1	1	0.85	2	20/1	10	LIGHTS TEL. ELEC. MECH. WC	10	20/1	10
LIGHTS RM 110	10	20/1	3	0.98	4	20/1	10	LIGHTS RM 113, 114, 115	10	20/1	10
LIGHTS RM 105, 106, 107	10	20/1	5	0.74	6	20/1	10	LIGHTS CORRIDOR 108	10	20/1	10
LIGHTS RECEPTIONS COPY RM	10	20/1	7	0.55	8	20/1	10	LIGHTS OFFICE RM 109	10	20/1	10
LIGHTS RECEPTIONS WAIT RM WEST	10	20/1	9	0.54	10	20/1	10	LIGHTS OFFICE RM 109	10	20/1	10
LIGHTS CONF. RM SPOTS	10	20/1	11	0.65	12	20/1	10	LIGHTS OFFICE RM 109	10	20/1	10
EM LIGHTS	10	20/1	13	0.40	14	20/1	10	EM LIGHTS	10	20/1	10
EM LIGHTS	10	20/1	15	0.44	16	20/1	10	EM LIGHTS	10	20/1	10
CANFPY LIGHTS	10	20/1	17	0.36	18	20/1	10	BLANK	10	20/1	10
WALL LIGHTS EAST	10	20/1	19	0.02	20	20/1	10	WALL LIGHTS WEST	10	20/1	10
BLANK	10	20/1	21	0.00	22	20/1	10	SPARE	10	20/1	10
TELCOO 120 RECEPTACLE	10	20/1	23	0.12	24	20/1	10	SPARE	10	20/1	10
TELCOO 120 RECEPTACLE	10	20/1	25	0.50	26	20/1	10	SPARE	10	20/1	10
TELCOO 120 RECEPTACLE	10	20/1	27	0.17	28	20/1	10	SPARE	10	20/1	10
TELCOO 120 RECEPTACLE	10	20/1	29	0.17	30	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	31	0.00	32	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	33	0.00	34	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	35	0.00	36	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	37	0.00	38	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	39	0.00	40	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	41	0.00	42	20/1	10	SPARE	10	20/1	10
*INTEGRATED EQUIPMENT SHORT CIRCUIT RATING (RMS SYMMETRICAL), MINIMUM VALUE. BUS BRACING, MAIN CIRCUIT BREAKER AND BRANCH CIRCUIT BREAKERS SHALL MEET OR EXCEED THIS MINIMUM.											
MFR: SIEMENS TYPE: S1C42ML250ATS MAIN BREAKER TYPE: N/A BRANCH BREAKER TYPE: BLH LOAD SUMMARY BY PHASE											
A 2.33 KW											
B 2.14 KW											
C 2.04 KW											
TOTAL 6.50 KW											

PANEL A

EXISTING

PANEL	PANEL-A	VOLTAGE	120/208	PHASE	3	WIRE	4	LOCATION	BLDG 28, COL C1	REVISION DATE	5/21/2026
MAIN LUGS ONLY	X	150	AMPS	SHUNT TRIP MCB	EG	X		MOUNTING SURFACE			
MAIN CIR. BKR		10	KAIC	200 % NEUTRAL	X	IG		FEED	TOP		
FED FROM SUB				BKR				PANELS ON SAME FEEDER			
DESCRIPTION	WIRE SIZE	CIR. BKR	CIR. NO.	LOAD -KW	CIR. NO.	CIR. BKR	WIRE SIZE	DESCRIPTION	WIRE SIZE	CIR. BKR	CIR. NO.
LIGHTS RM 110	10	20/1	1	0.85	2	20/1	10	LIGHTS TEL. ELEC. MECH. WC	10	20/1	10
LIGHTS RM 110	10	20/1	3	0.98	4	20/1	10	LIGHTS RM 113, 114, 115	10	20/1	10
LIGHTS RM 105, 106, 107	10	20/1	5	0.82	6	20/1	10	LIGHTS CORRIDOR 108	10	20/1	10
LIGHTS RECEPTIONS COPY RM	10	20/1	7	0.55	8	20/1	10	LIGHTS OFFICE RM 109	10	20/1	10
LIGHTS RECEPTIONS WAIT RM WEST	10	20/1	9	0.54	10	20/1	10	LIGHTS OFFICE RM 109	10	20/1	10
LIGHTS CONF. RM SPOTS	10	20/1	11	0.65	12	20/1	10	LIGHTS OFFICE RM 109	10	20/1	10
EM LIGHTS	10	20/1	13	0.40	14	20/1	10	EM LIGHTS	10	20/1	10
EM LIGHTS	10	20/1	15	0.44	16	20/1	10	EM LIGHTS	10	20/1	10
CANFPY LIGHTS	10	20/1	17	0.36	18	20/1	10	BLANK	10	20/1	10
WALL LIGHTS EAST	10	20/1	19	0.02	20	20/1	10	WALL LIGHTS WEST	10	20/1	10
BLANK	10	20/1	21	0.00	22	20/1	10	SPARE	10	20/1	10
TELCOO 120 RECEPTACLE	10	20/1	23	0.12	24	20/1	10	SPARE	10	20/1	10
TELCOO 120 RECEPTACLE	10	20/1	25	0.50	26	20/1	10	SPARE	10	20/1	10
TELCOO 120 RECEPTACLE	10	20/1	27	0.17	28	20/1	10	SPARE	10	20/1	10
TELCOO 120 RECEPTACLE	10	20/1	29	0.17	30	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	31	0.00	32	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	33	0.00	34	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	35	0.00	36	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	37	0.00	38	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	39	0.00	40	20/1	10	SPARE	10	20/1	10
SPARE	10	20/1	41	0.00	42	20/1	10	SPARE	10	20/1	10
*INTEGRATED EQUIPMENT SHORT CIRCUIT RATING (RMS SYMMETRICAL), MINIMUM VALUE. BUS BRACING, MAIN CIRCUIT BREAKER AND BRANCH CIRCUIT BREAKERS SHALL MEET OR EXCEED THIS MINIMUM.											
MFR: SIEMENS TYPE: S1C42ML250ATS MAIN BREAKER TYPE: N/A BRANCH BREAKER TYPE: BLH LOAD SUMMARY BY PHASE											
A 2.33 KW											
B 2.14 KW											
C 2.11 KW											
TOTAL 6.58 KW											

PANEL A

PROPOSED

PANEL	CPA	VOLTAGE	120/208	PHASE	3	WIRE	4	LOCATION	BLDG 28, COL B7	REVISION DATE	4/2/2026
MAIN LUGS ONLY	X	250	AMPS	SHUNT TRIP MCB	EG	X		MOUNTING SURFACE			
MAIN CIR. BKR		22	KAIC	200 % NEUTRAL	X	IG		FEED	TOP		
FED FROM SUB				BKR				PANELS ON SAME FEEDER			
DESCRIPTION	WIRE SIZE	CIR. BKR	CIR. NO.	LOAD -KW	CIR. NO.	CIR. BKR	WIRE SIZE	DESCRIPTION	WIRE SIZE	CIR. BKR	CIR. NO.
MULTI PURPOSE	12	20/1	1	0.25	2	20/1	12	PLUG STRIP FIBER OPTIC	12	20/1	12
BLACK RM	12	20/1	3	0.12	4	20/1	12	PLUG STRIP FIBER OPTIC	12	20/1	12
PHOTO TYPING RM	12	20/1	5	0.42	6	20/2	12	208 VOLT RECEPT. FIBER OPTIC	12	20/1	12
PHOTO TYPING RM	12	20/1	7	0.66	8	20/2	12	208 VOLT RECEPT. FIBER OPTIC	12	20/1	12
EOS RM3	12	20/1	9	0.10	10	20/1	12	RCS	12	20/1	12
EOS RM4	12	20/1	11	0.06	12	20/1	12	RCS	12	20/1	12
UPS1 RACK4	12	20/1	13	0.17	14	20/1	12	HOLD DESK	12	20/1	12
HVAC NCT WORK CONTROLLER	12	20/1	15	0.17	16	20/1	12	BLACK ROOM	12	20/1	12
UPS1 RACK8	8	30/2	17	0.05	18	20/1	12	MULTI PURPOSE	12	20/1	12
			19	0.02	20	20/1	12	MULTI PURPOSE	12	20/1	12
UPS1 RACK7	6	60/2	21	1.63	22	20/1	12	RCS	12	20/1	12
			23	1.81	24	20/1	12	RCS	12	20/1	12
208 VOLT RECEPT. EXP RM1	12	20/2	25	0.06	26	20/2	12	208 VOLT RECEPT. COPY RM	12	20/2	12
208 VOLT RECEPT. EXP RM2	12	20/2	27	0.07	28	20/2	12	208 VOLT RECEPT. COPY RM	12	20/2	12
208 VOLT RECEPT. EXP RM3	12	20/2	29	0.01	30	20/2	12	208 VOLT RECEPT. EXP RM3	12	20/2	12
208 VOLT RECEPT. EXP RM4	12	20/2	31	0.01	32	20/2	12	208 VOLT RECEPT. EXP RM4	12	20/2	12
208 VOLT RECEPT. EXP RM5	12	20/2	33	0.00	34	20/2	12	208 VOLT RECEPT. EXP RM5	12	20/2	12
208 VOLT RECEPT. EXP RM6	12	20/2	35	0.01	36	20/2	12	208 VOLT RECEPT. EXP RM6	12	20/2	12
208 VOLT RECEPT. EXP RM7	12	20/2	37	0.10	38	20/2	12	208 VOLT RECEPT. EXP RM7	12	20/2	12
208 VOLT RECEPT. EXP RM8	12	20/2	39	0.01	40	20/2	12	208 VOLT RECEPT. EXP RM8	12	20/2	12
208 VOLT RECEPT. EXP RM9	12	20/2	41	0.01	42	20/2	12	208 VOLT RECEPT. EXP RM9	12	20/2	12
*INTEGRATED EQUIPMENT SHORT CIRCUIT RATING (RMS SYMMETRICAL), MINIMUM VALUE. BUS BRACING, MAIN CIRCUIT BREAKER AND BRANCH CIRCUIT BREAKERS SHALL MEET OR EXCEED THIS MINIMUM.											
MFR: SIEMENS TYPE: S1C42ML250ATS MAIN BREAKER TYPE: N/A BRANCH BREAKER TYPE: BLH LOAD SUMMARY BY PHASE											
A 1.27 KW											
B 2.10 KW											
C 2.77 KW											
TOTAL 6.14 KW											

PANEL CPA

EXISTING

PANEL	B	VOLTAGE:	120/208	PHASE:	3	WIRE:	4	LOCATION:	BLDG 28, COL B7	REVISION DATE:	4/2/2026
MAIN LUGS ONLY		X	125 AMPS	SHUNT TRIP MCB		EG	X	MOUNTING SURFACE			
MAIN CIR. BKR			10 KAIC	200 % NEUTRAL	X	IG	X	FEED:	TOP		
FED FROM SUB			BKR	PANELS ON SAME FEEDER							
DESCRIPTION		WIRE SIZE	CIR. BKR	CIR. NO.	LOAD -KW		CIR. NO.	CIR. BKR	WIRE SIZE	DESCRIPTION	
GENERAL PURPOSE LAB		12	20/1	1	0.49	A	2	20/1	12		
GENERAL PURPOSE LAB		12	20/1	3	0.05	B	4	20/1	12		
GENERAL PURPOSE LAB		12	20/1	5	0.60	C	6	20/1	12	LOADING DOCK HPS	
GENERAL PURPOSE LAB		12	20/1	7	0.49		8	20/1	12	LIGHTS CORRIDOR	
SPARE		12	20/1	9	0.55		10	20/1	12	LIGHTS CORRIDOR	
SPARE		12	20/1	11	0.29		12	30/1	8	UPS5 RACK2	
SPARE		12	20/1	13	0.53		14	30/1	8	UPS1 RACK1	
SPARE		12	20/1	15	0.44		16	30/1	8	UPS2 RACK1	
LIGHTS RECEIVING		12	20/1	17	0.23		18	30/1	8	UPS4 RACK2	
LIGHTS RAPID PHOTO LAB		12	20/1	19	0.24		20	30/1	8	UPS4 RACK4	
ELECTRIC STORAGE AREA		12	20/1	21	0.05		22	20/1	12	BLANK	
A/C GFI CONDENSATE		12	20/1	23	0.02		24	20/1	12	LIGHT ADMINISTRATION	
LEIBERT UNIT & OUTSIDE A/C		12	20/2	25	0.31		26	20/1	12	LIGHT LIBRARY	
				27	0.04		28	20/1	12	LIGHT PROJECTION/STORAGE	
ER1		12	20/2	29	0.04		30	20/2	12	ER1	
				31	0.10		32				
ER1		12	20/2	33	0.06		34	20/1	12	RACK RECEIPT	
				35	0.29		36	30/1	8	UPS3 RACK4	
				37	1.80		38	30/1	8	EOS-1 UPS	
				39	1.80		40	30/1	8	EOS-2 UPS	
LEIBERT UNIT INSIDE		6	45/3	41	1.80		42	20/1	12	BLANK	
*INTEGRATED EQUIPMENT SHORT CIRCUIT RATING (RMS SYMMETRICAL), MINIMUM VALUE. BUS BRACING, MAIN CIRCUIT BREAKER AND BRANCH CIRCUIT BREAKERS SHALL MEET OR EXCEED THIS MINIMUM.					MFR.: SIEMENS						
					TYPE: 1SC42ML250ATS						
					MAIN BREAKER TYPE: N/A						
					BRANCH BREAKER TYPE: BLH						
					LOAD SUMMARY BY PHASE						
					A	3.96	KW				
					B	2.99	KW				
					C	3.26	KW				
					TOTAL	10.21	KW				

PANEL	DP	VOLTAGE	120/208	PHASE	3	WIRE	4	LOCATION	BLDG 28, COL B7	REVISION DATE	4/2/2026
MAIN LUGS ONLY				SHUNT TRIP MCB		EG	X	MOUNTING	SURFACE		
MAIN CIR. BKR				KAIC*	200 % NEUTRAL	X	IG	FEED	TOP		
FED FROM SUB				BKR							
PANELS ON SAME FEEDER											
DESCRIPTION	WIRE SIZE	CIR. NO.	CIR. NO.	LOAD -KW	CIR. NO.	CIR. NO.	WIRE SIZE	DESCRIPTION	WIRE SIZE	CIR. NO.	CIR. NO.
BRIEF RM SCREEN 1 CTR FRAME PROJ.	10	20/1	1	0.02	2	20/1	10	BRIEF RM SCREEN 4 CTR FRAME PROJ.	10	20/1	2
BRIEF RM CENTER ADJ. DOWNLIGHTS	10	20/1	3	0.00	4	20/1	10	BRIEF RM SCREEN 1 FRAME PROJ.	10	20/1	3
BRIEF RM SCREEN 4 FRAME PROJ.	10	20/1	5	0.00	6	20/1	10	BRIEF RM CENTER ADJ. DOWNLIGHTS	10	20/1	5
BRIEF RM SCREEN 2 CTR FRAME PROJ.	10	20/1	7	0.00	8	20/1	10	BRIEF RM SIDE WALL FRAME PROJ.	10	20/1	7
BRIEF RM STEP LIGHTING	10	20/1	9	0.00	10	20/1	10	BRIEF RM SCREEN 2 FRAME PROJ.	10	20/1	9
BRIEF RM SIDE WALL FRAME PROJ.	10	20/1	11	0.00	12	20/1	10	BLACK ROOM TRACK1	10	20/1	11
BRIEF RM SCREEN 3 CTR FRAME PROJ.	10	20/1	13	0.00	14	20/1	10	ER-3 TRACK 2	10	20/1	13
ER-4 TRACK1	10	20/1	15	0.00	16	20/1	10	ER-3 TRACK 2	10	20/1	15
ER-3 TRACK 1	10	20/1	17	0.00	18	20/1	10	ER-3 TRACK 2	10	20/1	17
BLACK RM TRACK 2	10	20/1	19	0.01	20	20/1	10	ER-3 TRACK 2	10	20/1	19
ER-3 DOWNLIGHTS	10	20/1	21	0.00	22	20/1	10	ER-3 TRACK 2	10	20/1	21
ER-3 DOWNLIGHTS	10	20/1	23	0.03	24	20/1	10	ER-3 TRACK 2	10	20/1	23
MULTI PURPOSE TRACK 2	10	20/1	25	0.01	26	20/1	10	ER-3 TRACK 2	10	20/1	25
BLACK ROOM DIMMABLE FLOUR	10	20/1	27	0.01	28	20/1	10	ER-3 TRACK 2	10	20/1	27
ER-1 DOWNLIGHTS	10	20/1	29	0.01	30	20/1	10	ER-3 TRACK 2	10	20/1	29
MULTI PURPOSE DIMMABLE FLOUR	10	20/1	31	0.01	32	20/1	10	ER-3 TRACK 2	10	20/1	31
SPARE	10	20/1	33	0.00	34	20/1	10	ER-3 TRACK 2	10	20/1	33
ER-2 TRACK 2	10	20/1	35	0.00	36	20/1	10	ER-3 TRACK 2	10	20/1	35
ER-3 DIMMABLE FLOUR	10	20/1	37	0.00	38	20/1	10	ER-3 TRACK 2	10	20/1	37
SIM PILOT DIMMABLE FLOUR	10	20/1	39	0.00	40	20/1	10	ER-3 TRACK 2	10	20/1	39
ER-3 NON DIMMABLE FLOUR	10	20/1	41	0.01	42	20/1	10	ER-3 TRACK 2	10	20/1	41
ER-3 NON DIMMABLE FLOUR	10	20/1	43	0.00	44	20/1	10	ER-3 TRACK 2	10	20/1	43
SPARE	10	20/1	45	0.03	46	20/1	10	ER-3 TRACK 2	10	20/1	45
BRIEF ROOM 2X2 CIRCUIT 1	10	20/1	47	0.05	48	20/1	10	ER-3 TRACK 2	10	20/1	47
PAC-2 CONTROLLER	10	20/1	49	0.00	50	20/1	10	ER-3 TRACK 2	10	20/1	49
	10	20/1	51	0.00	52	20/1	10	ER-3 TRACK 2	10	20/1	51

*INTEGRATED EQUIPMENT SHORT CIRCUIT

RATING (RMS SYMMETRICAL), MINIMUM

VALUE, BUS BRACING, MAIN CIRCUIT

BREAKER AND BRANCH CIRCUIT BREAKERS

SHALL MEET OR EXCEED THIS MINIMUM.

MFR: CRESTRON

TYPE:

MAIN BREAKER TYPE:

BRANCH BREAKER TYPE:

LOAD SUMMARY BY PHASE

A 0.03 KW

B 0.04 KW

C 0.10 KW

TOTAL 0.17 KW

PANEL DP
EXISTING

PANEL	RPB	VOLTAGE	120/208	PHASE	3	WIRE	4	LOCATION	BLDG 28, COL B7	REVISION DATE	10/28/2025
MAIN LUGS ONLY				SHUNT TRIP MCB		EG	X	MOUNTING	SURFACE		
MAIN CIR. BKR				KAIC*	200 % NEUTRAL	X	IG	FEED	TOP		
FED FROM PANEL				PPB	BKR						
PANELS ON SAME FEEDER											
DESCRIPTION	WIRE SIZE	CIR. NO.	CIR. NO.	LOAD -KW	CIR. NO.	CIR. NO.	WIRE SIZE	DESCRIPTION	WIRE SIZE	CIR. NO.	CIR. NO.
REC.P. PHOTO TYPE AREA	12	20/1	1	0.29	2	20/1	12	BRIEFING RM SCREEN #2	12	20/1	1
REC.P. PHOTO TYPE AREA	12	20/1	3	0.26	4	20/1	12	BRIEFING RM SCREEN #1	12	20/1	3
REC.P. EOS AREA	12	20/1	5	0.02	6	20/1	12	BRIEFING RM SCREEN #3	12	20/1	5
REC.P. EOS AREA	12	20/1	7	0.30	8	20/1	12	BRIEFING RM SCREEN #4	12	20/1	7
REC.P. ADMIN AREA	12	20/1	9	0.49	10	20/1	12	PROJECT BRIEFING RM	12	20/1	9
REC.P. ELECTRIC STORAGE	12	20/1	11	0.41	12	20/1	12	RM126 NEW IG REC.P.	12	20/1	11
REC.P. FIBER OPTIC LAB	12	20/1	13	0.06	14	20/1	12	RM126 NEW IG REC.P.	12	20/1	13
GENL. PURPOSE LAB REC.P.	12	20/1	15	0.36	16	20/1	12	SPARE	12	20/1	15
GENL. PURPOSE LAB REC.P.	12	20/1	17	0.01	18	20/1	12	DIMMER CONTROL REC.P.	12	20/1	17
GENL. PURPOSE LAB REC.P.	12	20/1	19	0.26	20	20/1	12	PROTECTION	12	20/1	19
GENL. PURPOSE LAB REC.P.	12	20/1	21	0.02	22	20/1	12	BOOTH IG	12	20/1	21
REC.P. BRIEFING RM	12	20/1	23	0.17	24	20/1	12	RM126 STARS CONSALS	12	20/1	23
REC.P. BRIEFING RM	12	20/1	25	0.34	26	20/1	12	RM126 STARS CONSALS	12	20/1	25
REC.P. & SINGS EOS	12	20/1	27	0.04	28	20/1	12	RM126 STARS CONSALS	12	20/1	27
RM 126 NEW IG REC.P.	12	20/1	29	0.02	30	20/1	12	RM126 STARS CONSALS	12	20/1	29
SPARE	12	20/1	31	0.04	32	20/1	12	RM126 STARS CONSALS	12	20/1	31
RM 126 IG REC.P.	12	20/1	33	0.04	34	20/1	12	RM126 STARS CONSALS	12	20/1	33
NO WIRE	12	20/1	35	0.55	36	20/1	12	RM126 STARS CONSALS	12	20/1	35
NO WIRE	12	20/1	37	0.50	38	20/1	12	RM126 STARS CONSALS	12	20/1	37
NO WIRE	12	20/1	39	0.50	40	20/1	12	RM126 STARS CONSALS	12	20/1	39
NO WIRE	12	20/1	41	0.00	42	20/1	12	RM126 STARS CONSALS	12	20/1	41

*INTEGRATED EQUIPMENT SHORT CIRCUIT

RATING (RMS SYMMETRICAL), MINIMUM

VALUE, BUS BRACING, MAIN CIRCUIT

BREAKER AND BRANCH CIRCUIT BREAKERS

SHALL MEET OR EXCEED THIS MINIMUM.

MFR: SIEMENS

TYPE: S1C42ML125ABS

MAIN BREAKER TYPE:

BRANCH BREAKER TYPE:

LOAD SUMMARY BY PHASE

A 1.79 KW

B 1.72 KW

C 1.19 KW

TOTAL 4.69 KW

PANEL RPB
EXISTING

PANEL	BCPL1	VOLTAGE	120/208	PHASE	3	WIRE	4	LOCATION	BLDG 28 1ST FLR, COL C8	REVISION DATE	8/6/2026
MAIN LUGS ONLY				SHUNT TRIP MCB		EG	X	MOUNTING	SURFACE		
MAIN CIR. BKR				KAIC*	200 % NEUTRAL	X	IG	FEED	BOTTOM		
FED FROM				MDP	BKR						
PANELS ON SAME FEEDER											
DESCRIPTION	WIRE SIZE	CIR. NO.	CIR. NO.	LOAD -KW	CIR. NO.	CIR. NO.	WIRE SIZE	DESCRIPTION	WIRE SIZE	CIR. NO.	CIR. NO.
TO JUNCTION BOX J1 TO UPS-1, PDU-1 (SHUNT TRIP)	4	60/2	1	2.40	2	20/1	10	SPARE	4	60/2	1
TO JUNCTION BOX J1 TO UPS-2, PDU-2 (SHUNT TRIP)	4	60/2	3	0.00	0.72	4	20/1	10	SPARE	4	60/2
TO JUNCTION BOX J1 TO UPS-3, PDU-3 (SHUNT TRIP)	4	60/2	5	26.40	0.00	6	20/3	2/0	TO BCPL-2 PANEL (BLDG 28 1ST FLR, COL A8)	4	60/2
TO JUNCTION BOX J1 TO UPS-4, PDU-4 (SHUNT TRIP)	4	60/2	7	2.40	0.00	8	20/1	10	SPARE	4	60/2
TO JUNCTION BOX J1 TO UPS-5, PDU-5 (SHUNT TRIP)	4	60/2	9	0.60	2.40	10	20/1	10	BCPL1-1 TO VIRTUAL TOWER LAB ROOM	4	60/2
SPARE	4	60/2	11	0.00	0.60	12	20/1	10	BCPL1-2 TO VIRTUAL TOWER LAB ROOM	4	60/2
SPARE	4	60/2	13	0.00	0.60	14	20/1	10	BCPL1-3 TO VIRTUAL TOWER LAB ROOM	4	60/2
SPARE	4	60/2	15	0.60	0.00	16	20/1	10	BCPL1-4 TO VIRTUAL TOWER LAB ROOM	4	60/2
SPARE	4	60/2	17	0.00	2.76	18	20/1	10	BCPL1-5 TO VIRTUAL TOWER LAB ROOM	4	60/2

*INTEGRATED EQUIPMENT SHORT CIRCUIT

RATING (RMS SYMMETRICAL), MINIMUM

VALUE, BUS BRACING, MAIN CIRCUIT

BREAKER AND BRANCH CIRCUIT BREAKERS

SHALL MEET OR EXCEED THIS MINIMUM.

MFR: SQUARE D

TYPE: I-LINE HCJ

MAIN BREAKER TYPE: LG436400U43X

BRANCH BREAKER TYPE: HJA36060SA

LOAD SUMMARY BY PHASE

A 21.72 KW

B 40.68 KW

C 19.68 KW

TOTAL 82.08 KW

PANEL BCPL1
PROPOSED

PANEL	DP	VOLTAGE	120/208	PHASE	3	WIRE	4	LOCATION	BLDG 28, COL B7	REVISION DATE	5/21/2026
MAIN LUGS ONLY				SHUNT TRIP MCB		EG	X	MOUNTING	SURFACE		
MAIN CIR. BKR				KAIC*	200 % NEUTRAL	X	IG	FEED	TOP		
FED FROM SUB				BKR							
PANELS ON SAME FEEDER											
DESCRIPTION	WIRE SIZE	CIR. NO.	CIR. NO.	LOAD -KW	CIR. NO.	CIR. NO.	WIRE SIZE	DESCRIPTION	WIRE SIZE	CIR. NO.	CIR. NO.
BRIEF RM SCREEN 1 CTR FRAME PROJ.	10	20/1	1	0.02	2	20/1	10	BRIEF RM SCREEN 4 CTR FRAME PROJ.	10	20/1	2
BRIEF RM CENTER ADJ. DOWNLIGHTS	10	20/1	3	0.00	4	20/1	10	BRIEF RM SCREEN 1 FRAME PROJ.	10	20/1	3
BRIEF RM SCREEN 4 FRAME PROJ.	10	20/1	5	0.00	6	20/1	10	BRIEF RM CENTER ADJ. DOWNLIGHTS	10	20/1	5
BRIEF RM SCREEN 2 CTR FRAME PROJ.	10	20/1	7	0.00	8	20/1	10	BRIEF RM SIDE WALL FRAME PROJ.	10	20/1	7
BRIEF RM STEP LIGHTING	10	20/1	9	0.00	10	20/1	10	BRIEF RM SCREEN 2 FRAME PROJ.	10	20/1	9
BRIEF RM SIDE WALL FRAME PROJ.	10	20/1	11	0.00	12	20/1	10	BLACK ROOM TRACK1	10	20/1	11
BRIEF RM SCREEN 3 CTR FRAME PROJ.	10	20/1	13	0.00	14	20/1	10	ER-3 TRACK 2	10	20/1	13
ER-4 TRACK1	10	20/1	15	0.00	16	20/1	10	ER-3 TRACK 2	10	20/1	15
SPARE	10	20/1	17	0.00	18	20/1	10	ER-3 TRACK 2	10	20/1	17
BLACK RM TRACK 2	10	20/1	19	0.00	20	20/1	10	ER-3 TRACK 2	10	20/1	19
SPARE	10	20/1	21	0.00	22	20/1	10	ER-3 TRACK 2	10	20/1	21
SPARE	10	20/1	23	0.00	24	20/1	10	ER-3 TRACK 2	10	20/1	23
MULTI PURPOSE TRACK 2	10	20/1	25	0.01	26	20/1	10	ER-3 TRACK 2	10	20/1	25
BLACK ROOM DIMMABLE FLOUR	10	20/1	27	0.01	28	20/1	10	ER-3 TRACK 2	10	20/1	27
ER-1 DOWNLIGHTS	10	20/1	29	0.01	30	20/1	10	ER-3 TRACK 2	10	20/1	29
MULTI PURPOSE DIMMABLE FLOUR	10	20/1	31	0.02	32	20/1	10	ER-3 TRACK 2	10	20/1	31
SPARE	10	20/1	33	0.00	34	20/1	10	ER-3 TRACK 2	10	20/1	33
ER-2 TRACK 2	10	20/1	35	0.00	36	20/1	10	ER-3 TRACK 2	10	20/1	35
ER-3 DIMMABLE FLOUR	10	20/1	37	0.31	38	20/1	10	ER-3 TRACK 2	10	20/1	37
SIM PILOT DIMMABLE FLOUR	10	20/1	39	0.00	40	20/1	10	ER-3 TRACK 2	10	20/1	39
SPARE	10	20/1	41	0.01	42	20/1	10	ER-3 TRACK 2	10	20/1	41
ER-3 NON DIMMABLE FLOUR	10	20/1	43	0.00	44	20/1	10	ER-3 TRACK 2	10	20/1	43
SPARE	10	20/1	45	0.03	46	20/1	10	ER-3 TRACK 2	10	20/1	45
BRIEF ROOM 2X2 CIRCUIT 2	10	20/1	47	0.05	48	20/1	10	ER-3 TRACK 2	10	20/1	47
PAC-2 CONTROLLER	10	20/1	49	0.00	50	20/1	10	ER-3 TRACK 2	10	20/1	49
	10	20/1	51	0.00	52	20/1	10	ER-3 TRACK 2	10	20/1	51

*INTEGRATED EQUIPMENT SHORT CIRCUIT

RATING (RMS SYMMETRICAL), MINIMUM

VALUE, BUS BRACING, MAIN CIRCUIT

BREAKER AND BRANCH CIRCUIT BREAKERS

SHALL MEET OR EXCEED THIS MINIMUM.

MFR: CRESTRON

TYPE:

MAIN BREAKER TYPE:

BRANCH BREAKER TYPE:

LOAD SUMMARY BY PHASE

A 0.35 KW

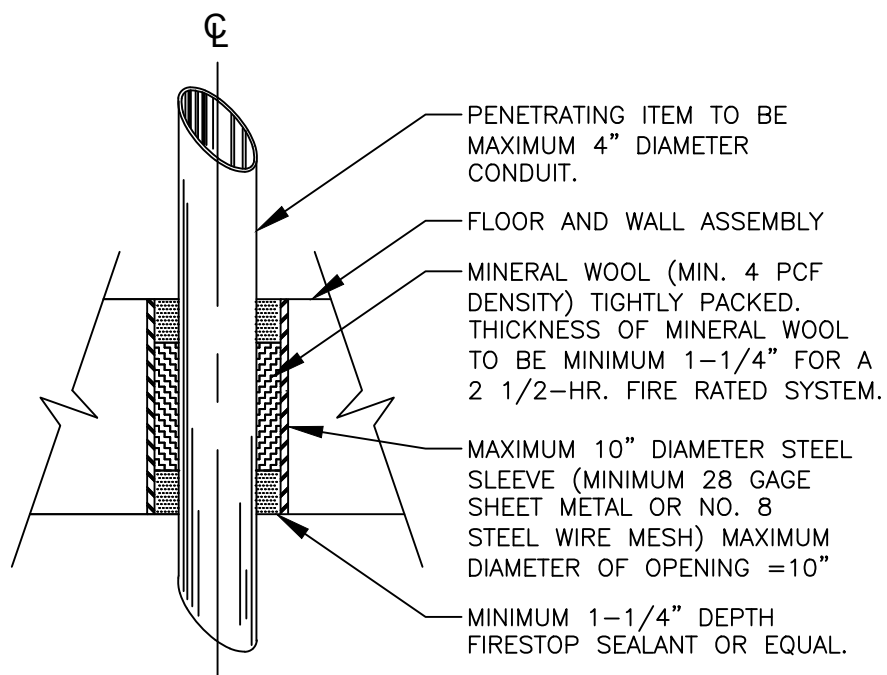
B 0.04 KW

C 0.07 KW

TOTAL 0.46 KW

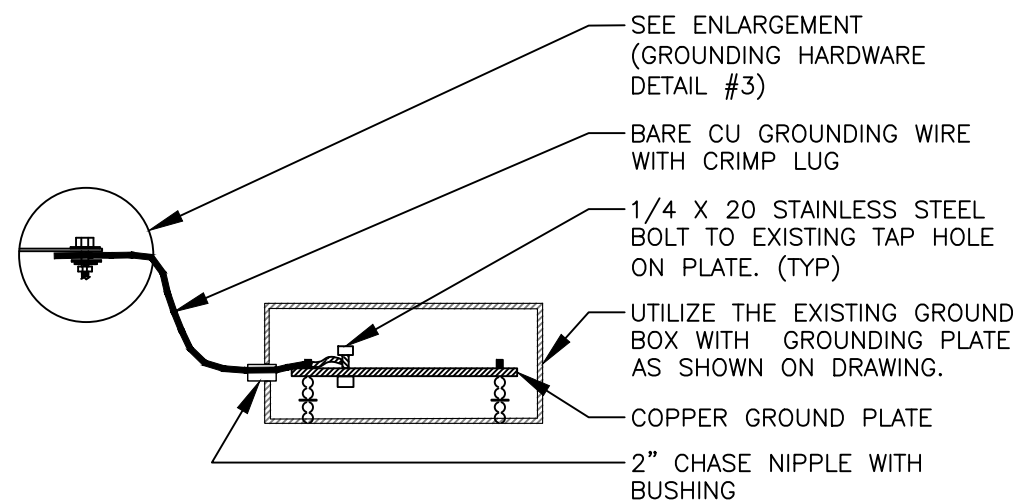
PANEL DP
PROPOSED

PANEL	RPB	VOLTAGE	120/208	PHASE	3	WIRE	4	LOCATION	BLDG 28, COL B7	REVISION DATE	5/21/2026
MAIN LUGS ONLY		X	125	AMPS	SHUNT TRIP MCB		X	IG	X	MOUNTING	SURFACE
MAIN CIR. BKR			10	KAIC	200 % NEUTRAL		X	IG		FEED:	TOP
FED FROM PANEL:	PPB	BKR:	PANELS ON SAME FEEDER								
DESCRIPTION		WIRE SIZE	CIR. NO.	CIR. NO.	LOAD -KW		CIR. NO.	CIR. NO.	WIRE SIZE	DESCRIPTION	
REC.P. PHOTO TYPE AREA		12	20/1	1	A	B	C	2	20/1	12	BRIEFING RM SCREEN #2
REC.P. PHOTO TYPE AREA		12	20/1	3	0.29		0.26	4	20/1	12	BRIEFING RM SCREEN #1
REC.P. EOS AREA		12	20/1	5			0.02	6	20/1	12	BRIEFING RM SCREEN #5
REC.P. EOS AREA		12	20/1	7	0.30			8	20/1	12	SPARE
REC.P. ADMIN AREA		12	20/1	9		0.49		10	20/1	12	BRIEFING RM SCREEN #4
REC.P. ELECTRIC STORAGE		12	20/1	11			0.41	12	20/1	12	PROJECT BRIEFING RM
REC.P. FIBER OPTIC LAB		12	20/1	13	0.06			14	20/1	12	RM126 NEW IG RECP
GEN'L PURPOSE LAB RECP.		12	20/1	15		0.36		16	20/1	12	RM126 NEW IG RECP
GEN'L PURPOSE LAB RECP.		12	20/1	17			0.01	18	20/1	12	SPARE
GEN'L PURPOSE LAB RECP.		12	20/1	19	0.28		0.20	20	20/1	12	DIMMER CONTROL RECP
GEN'L PURPOSE LAB RECP.		12	20/1	21		0.02		22	20/1	12	PROTECTION
REC.P. BRIEFING RM		12	20/1	23			0.17	24	20/1	12	BOOTH IG
REC.P. BRIEFING RM		12	20/1	25	0.34			26	20/2	12	RM126 STARS CONSALS
REC.P. & SINGS EOS		12	20/1	27		0.04	28		28	12	
SPARE		12	20/1	29			0.01	30	20/2	12	RM126 STARS CONSALS
RM 126 NEW IG RECP.		12	20/1	31	0.04			32	12		
SPARE		12	20/1	33		0.04		34	20/2	12	RM126 STARS CONSALS
RM 126 IG RECP.		12	20/1	35			0.55	36	12		
NO WIRE		12	20/1	37	0.00		0.00	38	30/2	8	SPARE
NO WIRE		12	20/1	39				40		8	
NO WIRE		12	20/1	41		0.00	0.00	42	20/1	12	SPARE
INTEGRATED EQUIPMENT SHORT CIRCUIT RATING (RMS SYMMETRICAL) MINIMUM VALUE. BUS BRACING, MAIN CIRCUIT BREAKER AND BRANCH CIRCUIT BREAKERS SHALL MEET OR EXCEED THIS MINIMUM.						MFR: SIEMENS TYPE: SIC142M125A6S MAIN BREAKER TYPE: _____ BRANCH BREAKER TYPE: _____ BL LOAD SUMMARY BY PHASE A 1.28 KW B 1.21 KW C 1.18 KW TOTAL 3.67 KW					

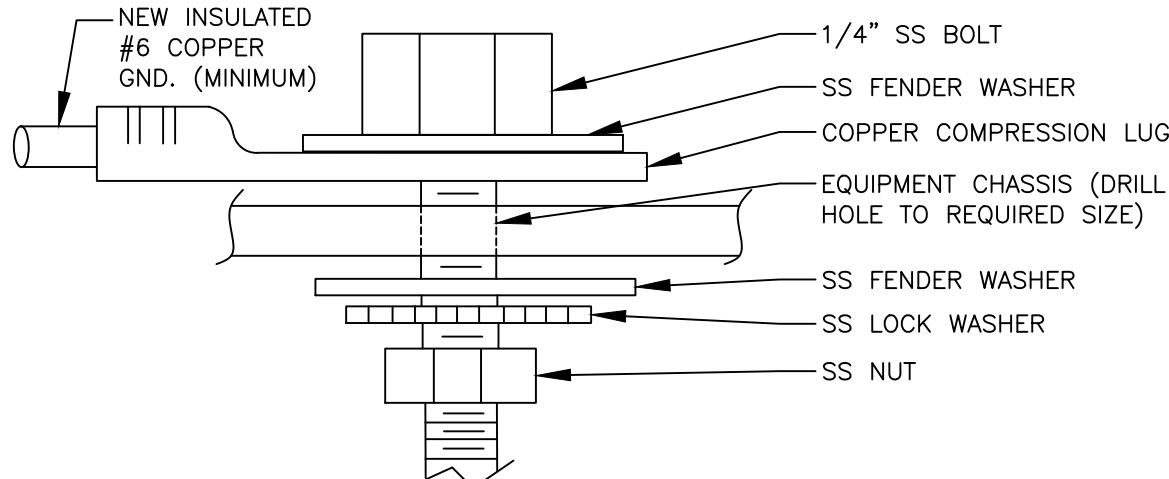


NOTES
1. ANNULAR SPACE = MINIMUM 1", MAXIMUM 2-3/8"
2. ALL FLOOR PENETRATIONS MUST BE CORE DRILLED

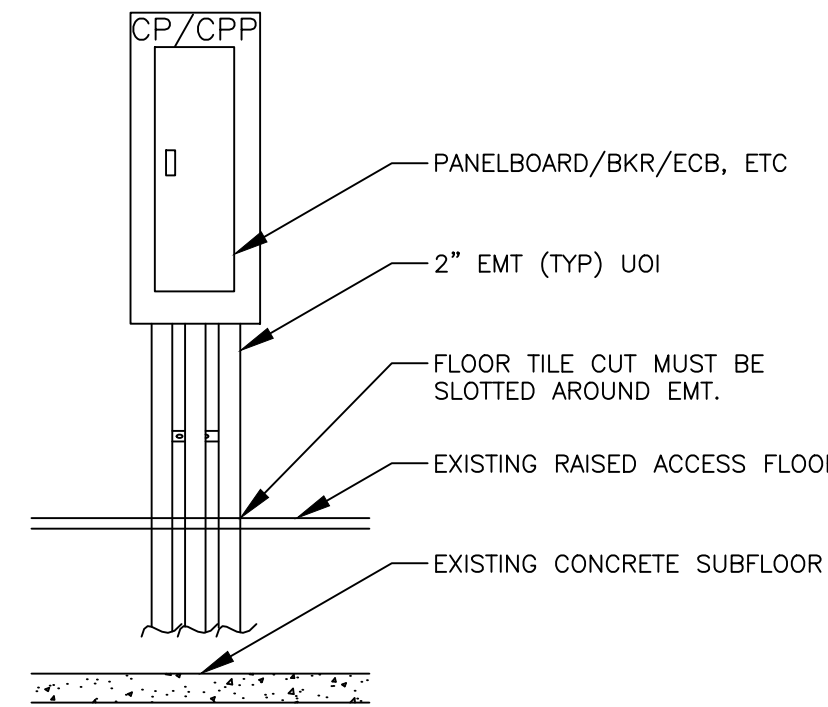
1
E901 CONDUIT THROUGH FLOOR & WALL
NTS



2
E901 GROUNDING DETAIL
NTS

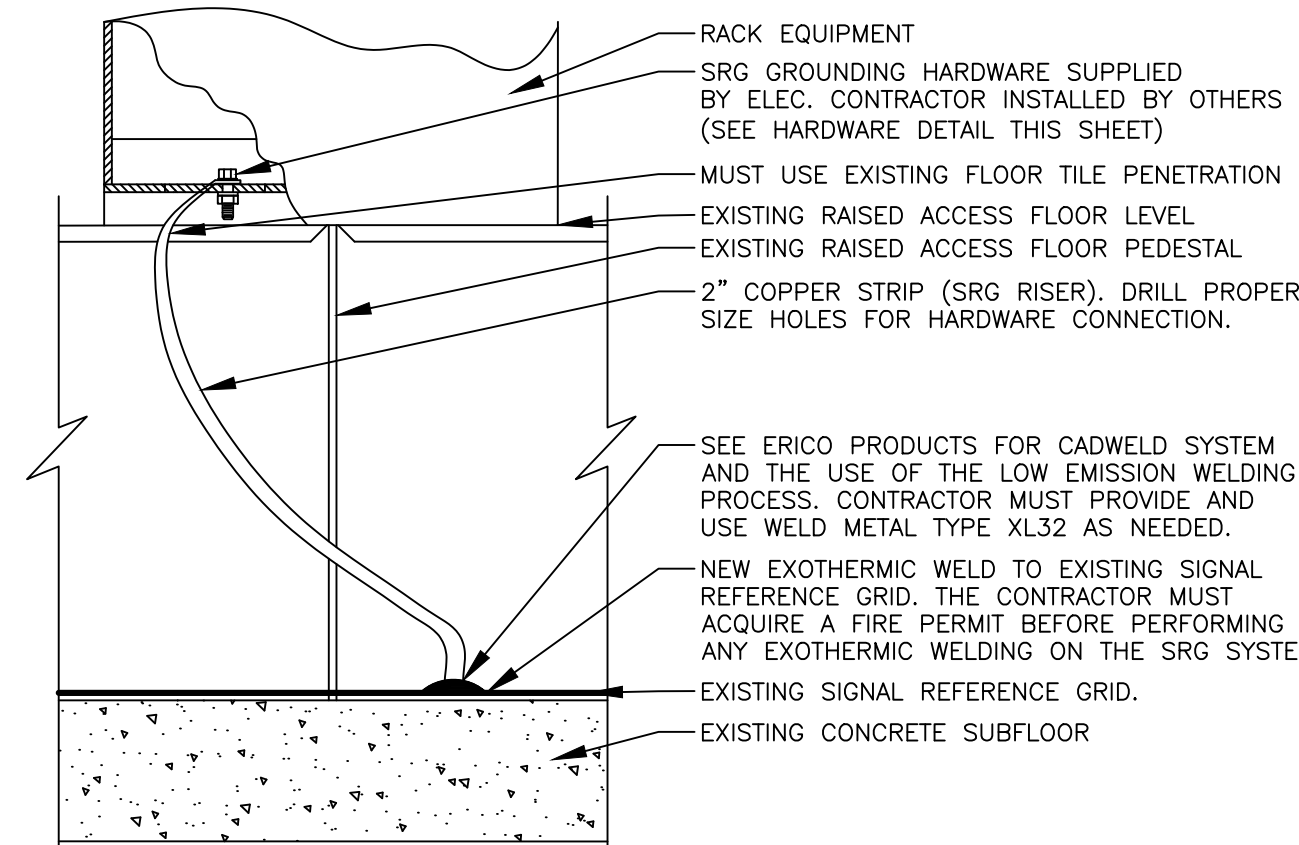


3
E901 GROUNDING HARDWARE
NTS

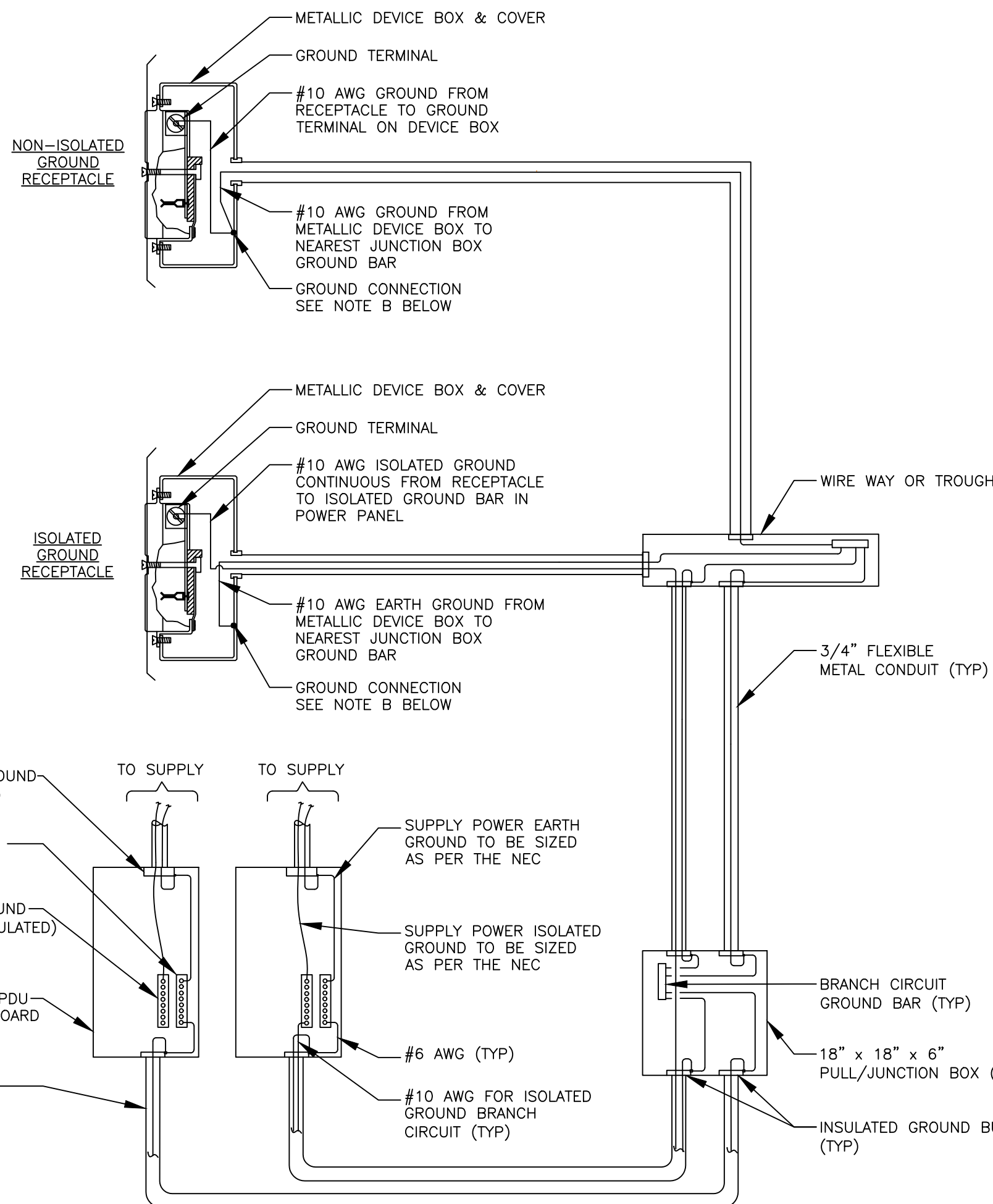


NOTE: NO FMC ALLOWED ABOVE RAISED FLOOR.

4
E901 PANELBOARD RACEWAY
NTS

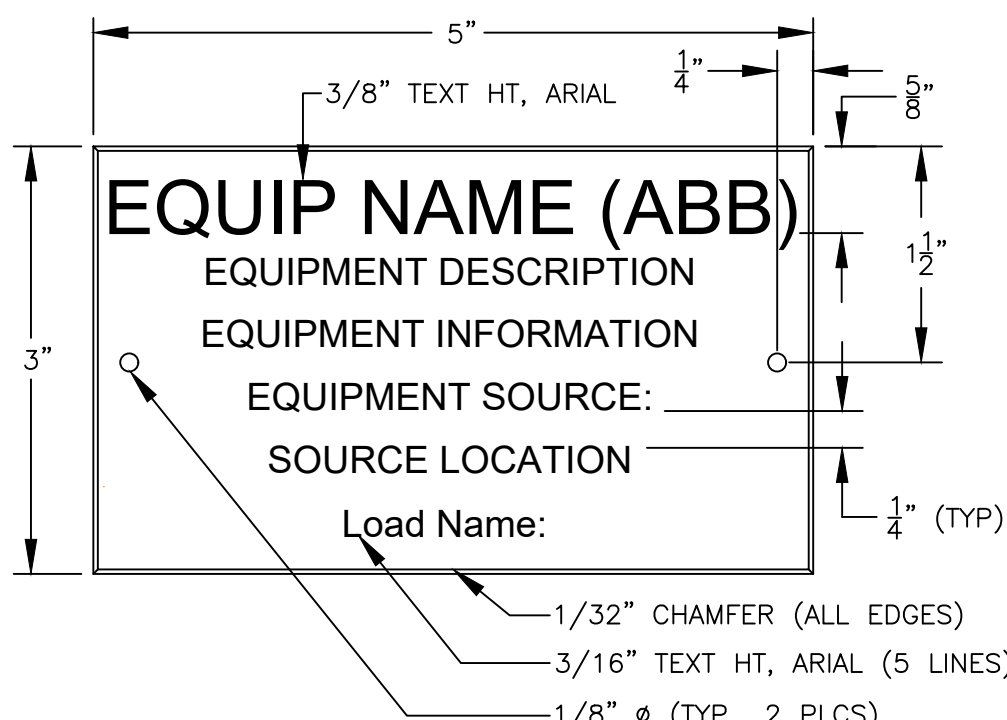


5
E901 SRG GROUNDING
NTS



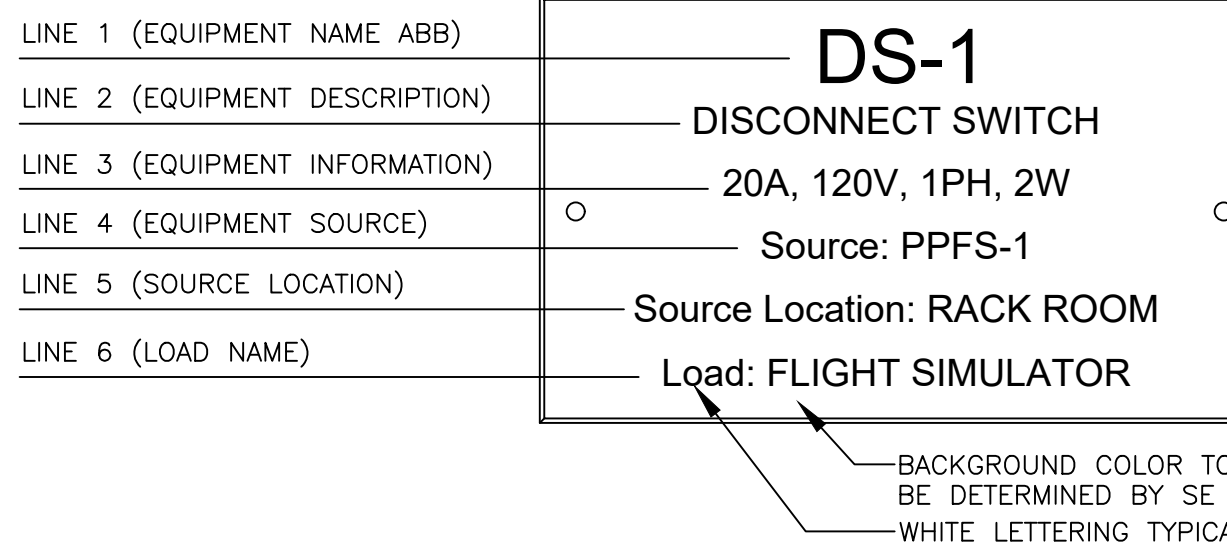
A. FOR CONDUIT 1" AND LARGER, UTILIZE A MINIMUM #6 AWG COPPER BONDING JUMPERS AND INSULATED GROUNDING BUSHINGS FOR ALL KNOCK OUTS.
B. TERMINATE THE WIRE WITH A RING TERMINAL AND ATTACH TO THE DEVICE BOX WITH A GROUNDING SCREW.

6
E901 TYPICAL GROUNDING DIAGRAM
NTS (PHASE & NEUTRAL WIRES NOT SHOWN)

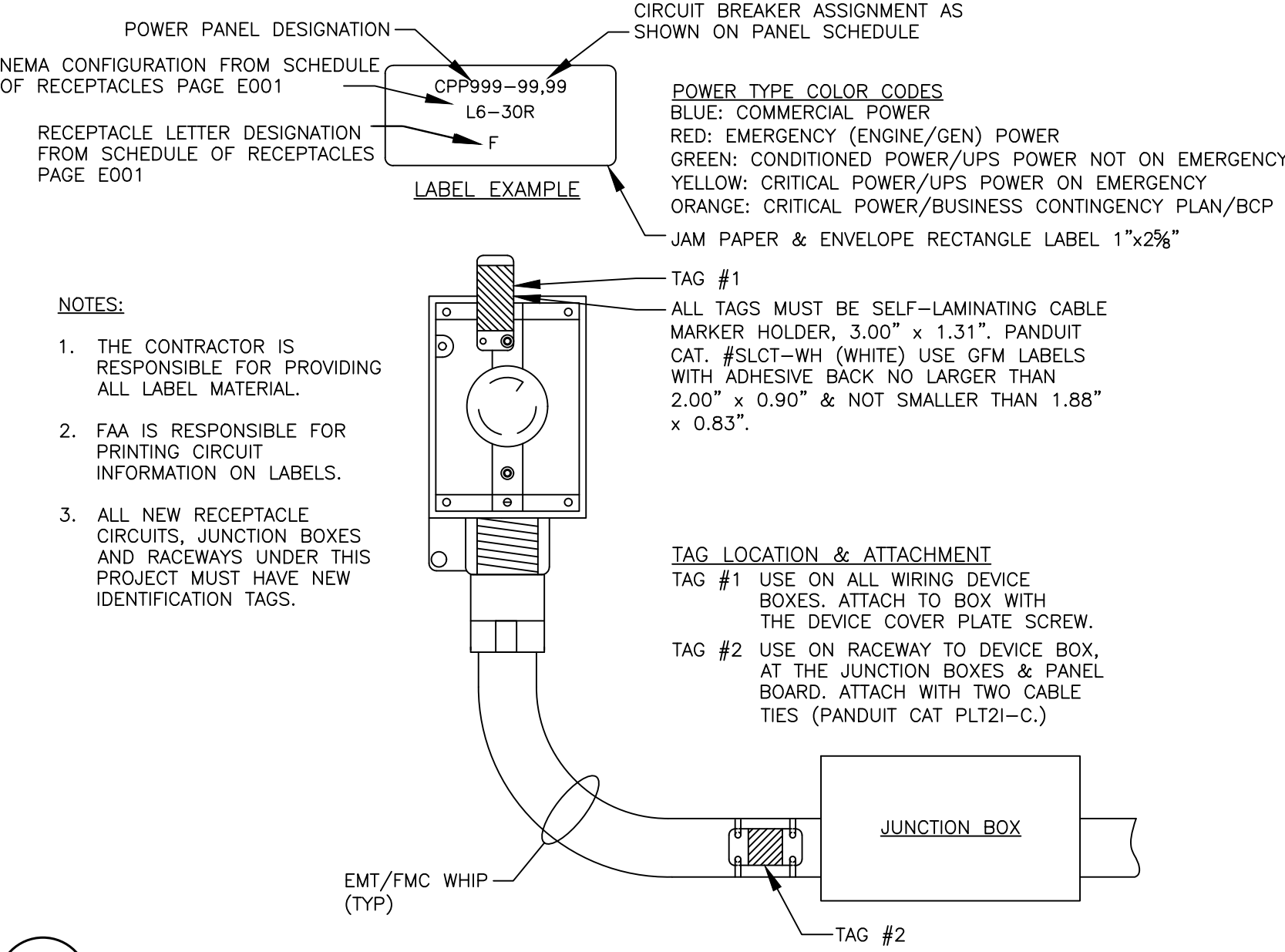


TEMPLATE FOR EQUIPMENT SIGNAGE & LABELING

7
E901 LABEL DETAILS
NTS



EXAMPLE OF EQUIPMENT SIGNAGE & LABELING



NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABEL MATERIAL.
2. FAA IS RESPONSIBLE FOR PRINTING CIRCUIT INFORMATION ON LABELS.
3. ALL NEW RECEPTACLE CIRCUITS, JUNCTION BOXES AND RACEWAYS UNDER THIS PROJECT MUST HAVE NEW IDENTIFICATION TAGS.

TAG LOCATION & ATTACHMENT
TAG #1 USE ON ALL WIRING DEVICE BOXES. ATTACH TO BOX WITH THE DEVICE COVER PLATE SCREW.
TAG #2 USE ON RACEWAY TO DEVICE BOX, AT THE JUNCTION BOXES & PANEL BOARD. ATTACH WITH TWO CABLE TIES (PANDUIT CAT PLT21-C.)

8
E901 POWER RACEWAYS ASSEMBLY IDENTIFICATION TAGS (TYP)
NTS

FOR OFFICIAL USE ONLY
PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

-	-			-	-	
REV	DATE	DESCRIPTION			CHECK	APV
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WILLIAM J. HUGHES TECHNICAL CENTER ATLANTIC CITY INT'L AIRPORT, N.J. AFTIL RELOCATION TO BLDGS. 27 & 28 - PHASE 1 ELECTRICAL DETAILS						
POMONA		WILLIAM J. HUGHES TECHNICAL CENTER			N.J.	
FILE : 201209-PHASE 2 REV-B.dwg						
REVIEWED BY		SUBMITTED BY		APPROVED BY		
-						
-						
-						
-		DESIGN: C.MENCHIN	LE TR#: 10457	DATE: 07/07/2026		
		DRAWN: B.DANIELS	FM ORDER#: N/A	DRAWING NO.		
		CHECK: M.KORZEN	FM WORK REQUEST #:	SHEET 27 OF 27		
				REV.		
				201209-E901		