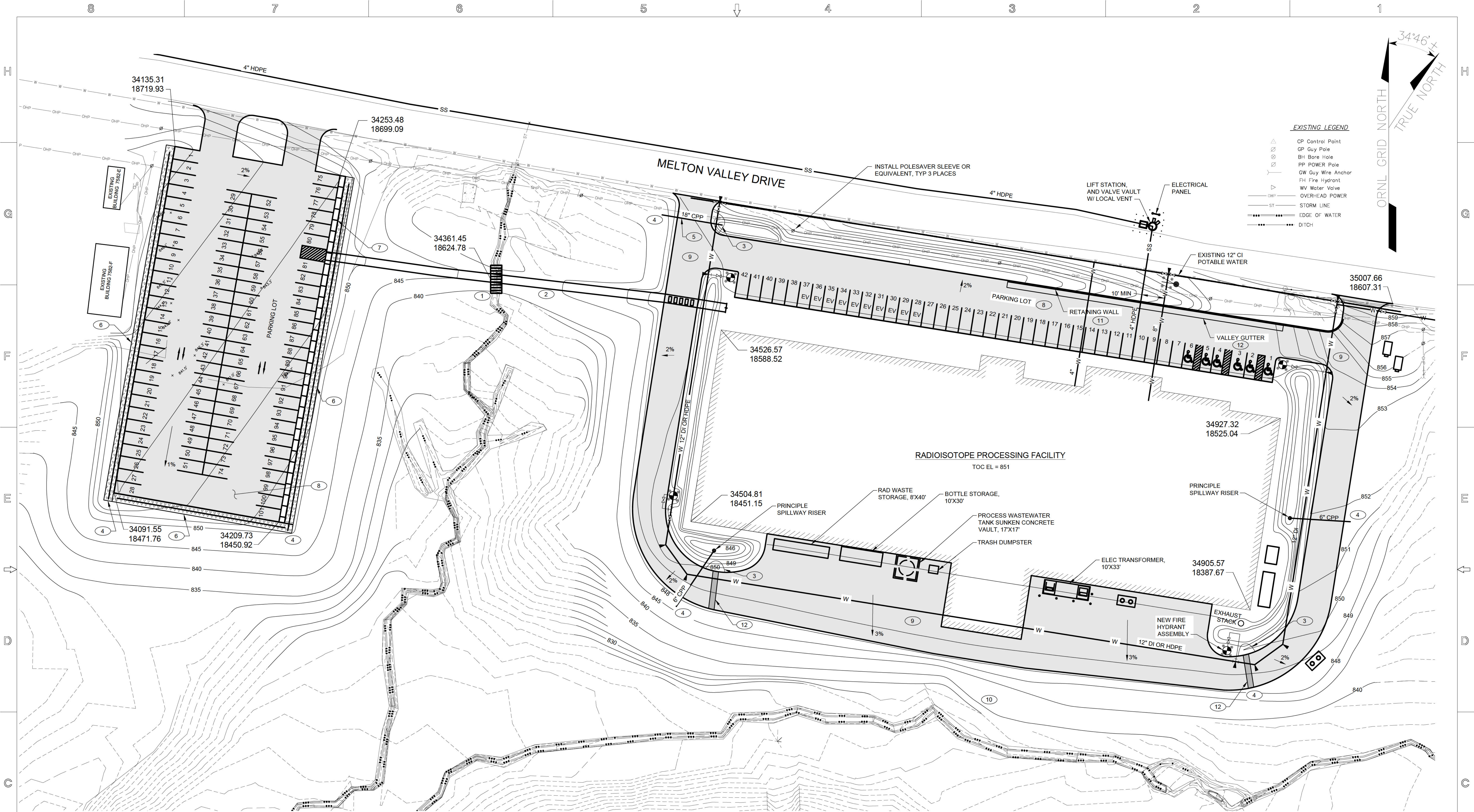




LEGEND:

- BIOSWALE
- NEW BUILDING
- BOLLARD

ABBREVIATIONS:

- CPP CORRUGATED POLYETHYLENE PIPE
- EV ELECTRIC VEHICLE
- HDPE HIGH DENSITY POLYETHYLENE
- RSP ROCK SLOPE PROTECTION
- TRM TURF REINFORCEMENT MAT

GENERAL NOTES:

- DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE APPROPRIATE EROSION CONTROLS IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION. CONTROLS MAY INCLUDE APPROPRIATE CONSTRUCTION SEQUENCING, MULCH STABILIZATION, CONCRETE WASHOUT AREAS, TRASH AND DEBRIS MANAGEMENT, ROCK CONSTRUCTION EXITS, TIRE WASHING FACILITIES, SILT FENCES, ETC AS REQUIRED.
- SEE ELECTRICAL SHEETS FOR EXISTING ELECTRICAL UTILITIES AND NEW CONNECTIONS.
- FOR CLARITY, NOT ALL 1' CONTOURS ARE SHOWN.

KEYED NOTES:

- ENVIRO-SPAN MODULAR CULVERT (OR SIMILAR) OVER EXISTING CREEK.
- 6' WIDE ASPHALT PATH BETWEEN PARKING LOT AND BUILDING. MAX SLOPE APPROXIMATELY 7%.
- APPLY RIPRAP TO TOP OF SEDIMENT BASIN AT EMERGENCY SPILLWAY AND CULVERT HEADWALL.
- INSTALL 64 SF OF SCOUR STOP TRANSITION MAT OVER 150 SF OF TRM. ANCHORED PER MANUFACTURER'S INSTRUCTIONS.
- 18" CORRUGATED HDPE CULVERT WITH PRECAST CONCRETE HEADWALL/ENDWALL.
- 6' WIDE BIOSWALE WITH 4:1 SIDE SLOPES, AND 4' WIDE INFILTRATION AREA WITH 1.5' DEEP PERMEABLE SOILS OVER FIBERGLASS MESH SCREEN OVER 2" PEA GRAVEL OVER 12" DEEP GRAVEL WITH 8" PERFORATED HDPE UNDERDRAIN, OVER AND SURROUNDED BY FILTER FABRIC.

SITE PLAN



KEYED NOTES (CONTINUED):

- 5-FT WIDE SIDEWALK ON EAST SIDE OF PARKING LOT.
- POROUS ASPHALT PAVEMENT.
- HEAVY-DUTY ASPHALT PAVEMENT.
- STABILIZE SLOPES EXCEEDING 3:1 WITH SOIL FILLED RSP WITH NATIVE PLANTS. FIRMLY KEY RSP INTO NATURAL GROUND. CONSULT GEOTECHNICAL ENGINEER FOR SET BACK DISTANCES OF EMBANKMENT (E.G. 5' CREST SETBACK FROM PAVEMENT AND UP TO 10' BEYOND TOE OF EMBANKMENT FOR LOW-STRENGTH SOILS PER SITE SPECIFIC GEOTECHNICAL REPORT).
- REINFORCED CONCRETE RETAINING WALL SHALL BE 9' HIGH MAX AND TAPER TO 1' HIGH AT EACH END. THICKNESS SHALL BE 8" (14" AT BASE) WITH 5'-0" WIDE AND 14" THICK FOOTING WITH A KEY 14" WIDE. APPROXIMATE VOLUME OF WALL IS 80 CUBIC YARDS. ALTERNATIVELY, GRAVITY BLOCK WALL MAY BE USED AS DETERMINED BY ENGINEER.
- 4' WIDE CONCRETE VALLEY GUTTER.

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DEFAULT STANDARDS UNLESS OTHERWISE SPECIFIED	
FRACTIONS ±	XX DECIMALS ±
XXX DECIMALS ±	ANGLES ±
BREAK SHARP EDGES	MAX
F NISH ±	
ALL DIMENSIONS ARE IN INCHES	
WHENEVER A MANUFACTURER'S NAME OR CATALOG NUMBER IS INDICATED, AN APPROVED EQUAL MAY BE SUBSTITUTED.	
THIS DRAWING CREATED IN ACCORDANCE WITH ANSI Y14.5M-1994	

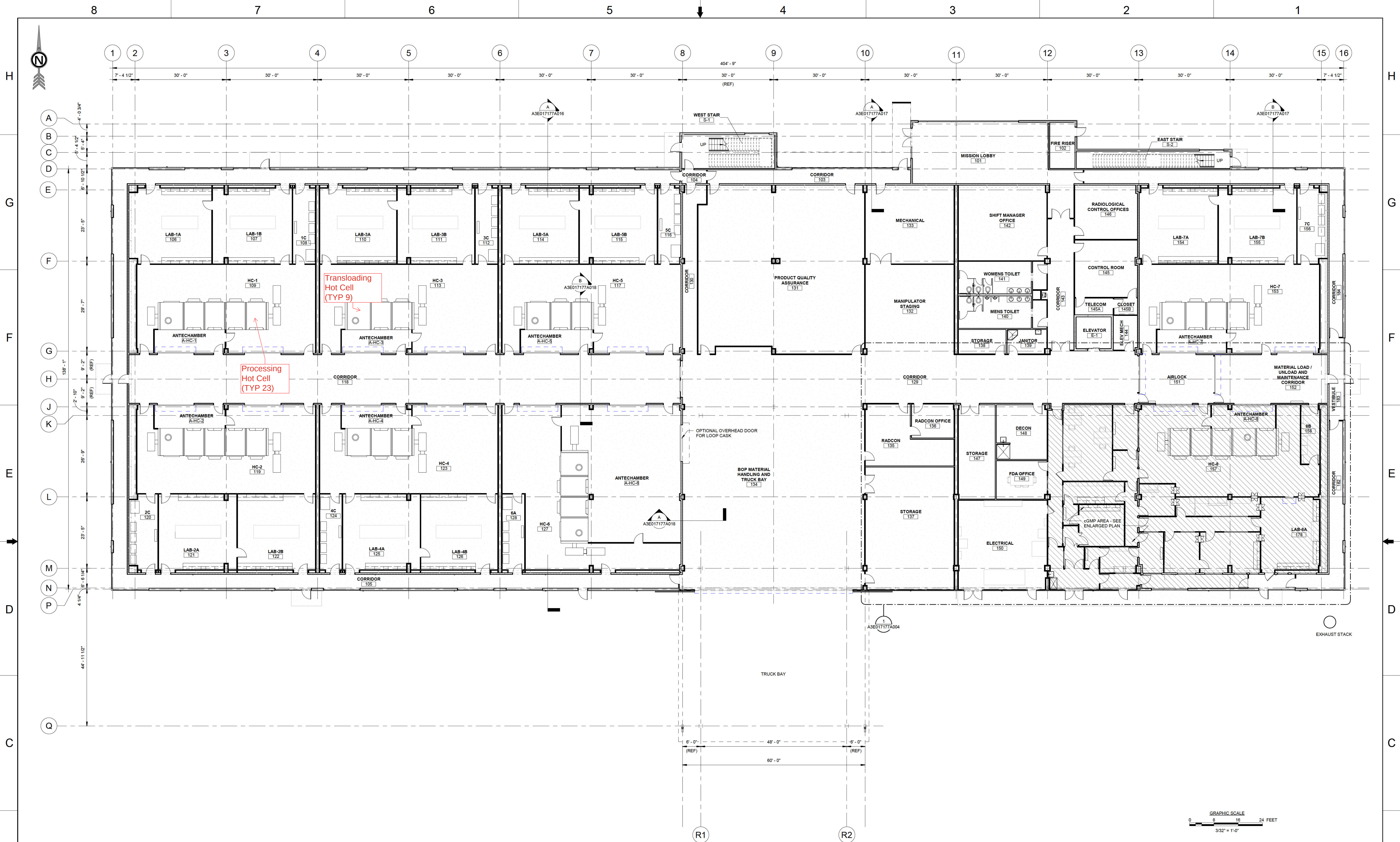
DRAWN BY	J. BYERS	06/08/23
CHECKER	J. MARTIN	06/08/23
DESIGN REVIEW	J. MARTIN	06/08/23
TASK LEADER	D. DEVINE	06/08/23
ENGINEERING SUPPORT DEPT HEAD		
REQUESTOR		
FACILITY MANAGER/DESIGNER		
SPECIAL REVIEW		
SPECIAL REVIEW		
DRAWING APPROVALS		
DATE		

REFERENCE DRAWING		DWG NUM	
NONREACTOR NUCLEAR FACILITIES DIVISION		OAK RIDGE NATIONAL LABORATORY	
RPF CIVIL SITE PLAN			
1	48	49	50
3	C	W	
PLANT ORNL		BLDG RPF	
FL		SHEET 1	
OF 1		CLASS U	
SCALE 1"=200'		C3E017177A001	
REV 0			



C3E017177A001

Appendix A



FIRST LEVEL - FLOOR PLAN

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

FIRST FLOOR AREA: 57,946 SF TOTAL

HOTCELL INSTALLATION NOTE:

MODULAR HOTCELLS WILL BE INSTALLED SEQUENTIALLY IN FOUR SEPARATE

- GROUPS, AS FOLLOWS:
1. RELEASE GROUP A: 9 HC IN BAYS 7 & 8.
 2. RELEASE GROUP B: 7 HC IN BAYS 5 & 6.
 3. RELEASE GROUP C: 6 HC IN BAYS 3 & 4.
 4. RELEASE GROUP D: 10 HC IN BAYS 1 & 2.

REFERENCE NOTES:

REFERENCE DRAWINGS:

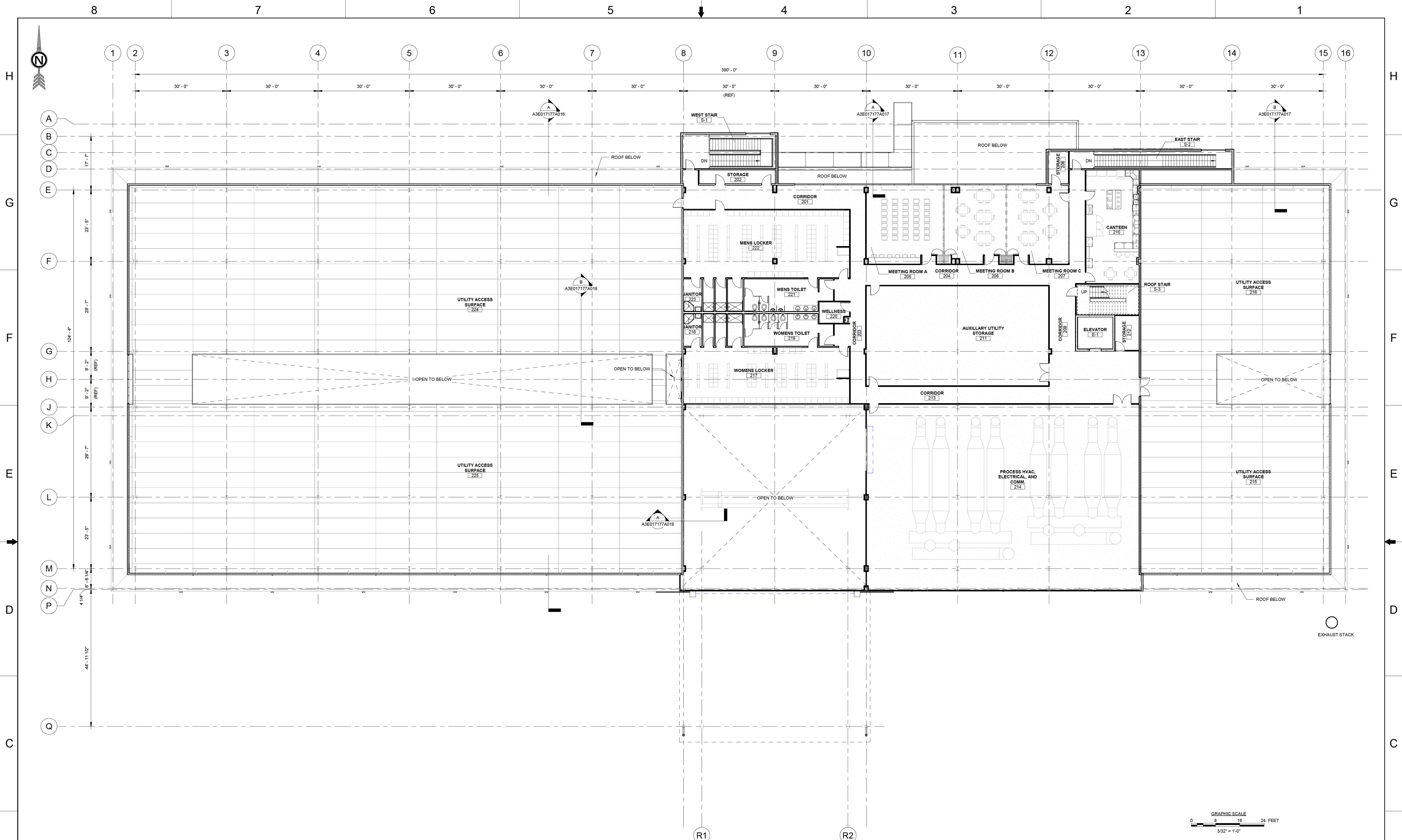
A3E017177A004	RPF, ARCHITECTURAL, cGMP - ENLARGED FLOOR PLAN
A3E017177A016	RPF, ARCHITECTURAL, BUILDING SECTION
A3E017177A017	RPF, ARCHITECTURAL, BUILDING ENLARGED SECTIONS
A3E017177A018	RPF, ARCHITECTURAL, BUILDING ENLARGED SECTIONS

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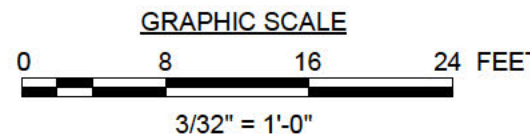


SECOND LEVEL - FLOOR PLAN

SCALE: 3/32" = 1'-0"
SECOND FLOOR AREA: 52,779 SF TOTAL (UNDER ROOF)
17,545 SF (GROSS OCCUPIABLE)

REFERENCE NOTES:

REFERENCE DRAWINGS:
A3E017177A016 RPF, ARCHITECTURAL, BUILDING SECTION
A3E017177A017 RPF, ARCHITECTURAL, BUILDING ENLARGED SECTIONS
A3E017177A018 RPF, ARCHITECTURAL, BUILDING ENLARGED SECTIONS



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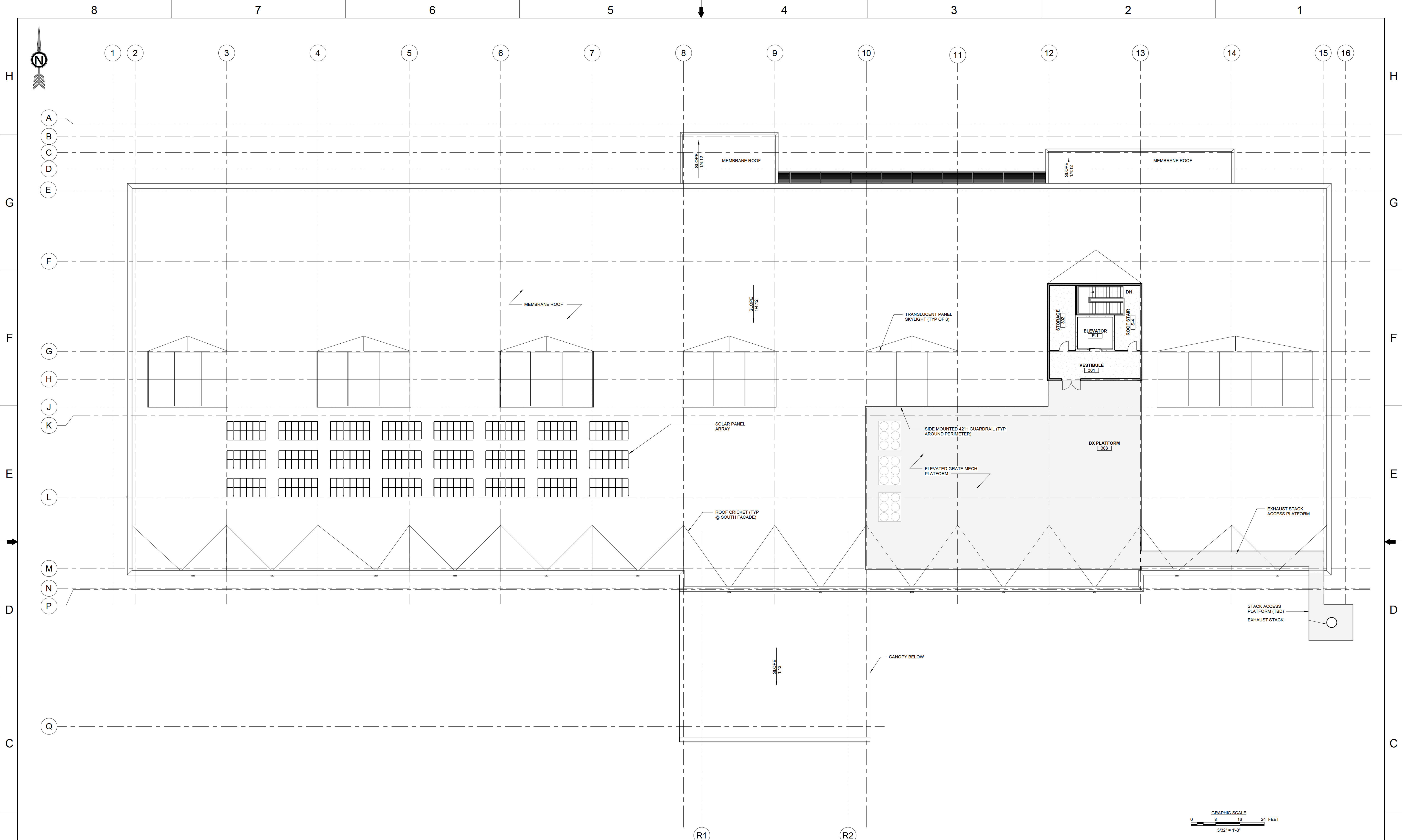
THIS DOCUMENT CONTROLLED BY
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REV	DESCRIPTION	BY	DSNR	CHK	DR	TL	ESDH	REQ	FAC	DATE	SR1	SR2	SR3	SR4	GR
0	INITIAL RELEASE FOR CDR														
REVISION OR ISSUE PURPOSE															
REVISION APPROVALS															

DEFAULT STANDARDS UNLESS OTHERWISE SPECIFIED	
ALL DIMENSIONS ARE IN INCHES	
WHENEVER A MANUFACTURER'S NAME OR CATALOG NUMBER IS INDICATED, AN APPROVED EQUAL MAY BE SUBSTITUTED	
THIS DRAWING CREATED IN ACCORDANCE WITH ANSI Y14.5M-1994	

DRAWN BY	T. GENTRY	08/08/23
DESIGNED BY	T. GENTRY	08/08/23
CHECKED BY	D. QUINLEY	08/08/23
DATE	Z. BEACH	08/08/23
ENGINEERING SUPPORT DEPARTMENT HEAD		
REVISIONS		
FACILITY MANAGER (DESIGNEE)		
FACILITY MANAGER		
DRAWING APPROVALS		
DATE		

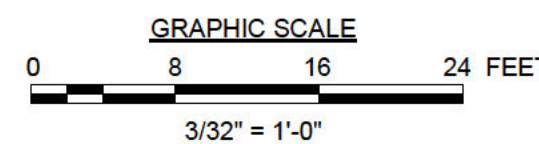
NONREACTOR NUCLEAR FACILITIES DIVISION OAK RIDGE NATIONAL LABORATORY									
RPF ARCHITECTURAL SECOND LEVEL - FLOOR PLAN									
SHEET NAME: SECOND LEVEL - FLOOR PLAN									
1	48	49	50	PLANT	BUILDING:	FL	SHEET	OF	CLASS
3	M	E	U	ORNL	RPF		1	1	
SCALE				DRAWING NUMBER				REV	
3/32" = 1'-0"				A3E017177A002				0	



DX LEVEL - FLOOR PLAN

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

THIRD FLOOR DX PLAZA AREA: 908 SF INTERIOR
5,033 SF MECH PLATFORM



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REV	DESCRIPTION	BY	DSNR	CHK	DR	TL	ESDH	REQ	FAC	DATE	SR1	SR2	SR3	SR4	GR
0	INITIAL RELEASE FOR CDR														
REVISION OR ISSUE PURPOSE															
REVISION APPROVALS															

DEFAULT STANDARDS UNLESS OTHERWISE SPECIFIED	
ALL DIMENSIONS ARE IN INCHES	
WHENEVER A MANUFACTURER'S NAME OR CATALOG NUMBER IS REPORTED, AN APPROVED EQUAL MAY BE SUBSTITUTED	
THIS DRAWING CREATED IN ACCORDANCE WITH ANSI Y14.5M-1994	

DRAWN BY	T. GENTRY	08/08/23
DESIGNED BY	T. GENTRY	08/08/23
CHECKED BY	D. QUINLEY	08/08/23
DESIGNED BY	Z. BEACH	08/08/23
TASK LEADER		
ENGINEERING SUPPORT (DEPARTMENT HEAD)		
REVISION		
FACILITY MANAGER (DESIGNED)		
DESIGNED BY		
DESIGNED BY		
DESIGNED BY		
DRAWING APPROVALS		
DATE		

SEE REFERENCE NOTES											
REFERENCE DRAWING										DWG NUM	
NONREACTOR NUCLEAR FACILITIES DIVISION OAK RIDGE NATIONAL LABORATORY											
RPF ARCHITECTURAL DX LEVEL - FLOOR PLAN											
SHEET NAME: DX LEVEL - FLOOR PLAN										TYPE	
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SCALE 3/32" = 1'-0"						D	DRAWING NUMBER A3E017177A003				REV 0

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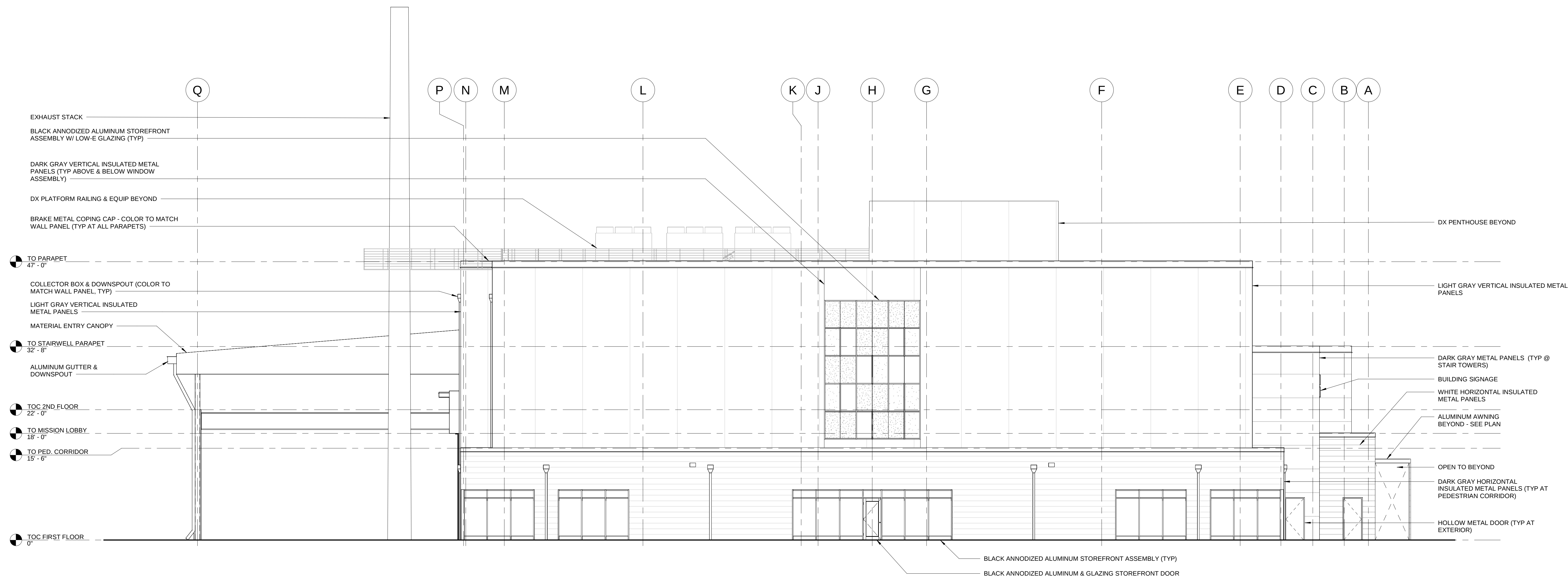
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B

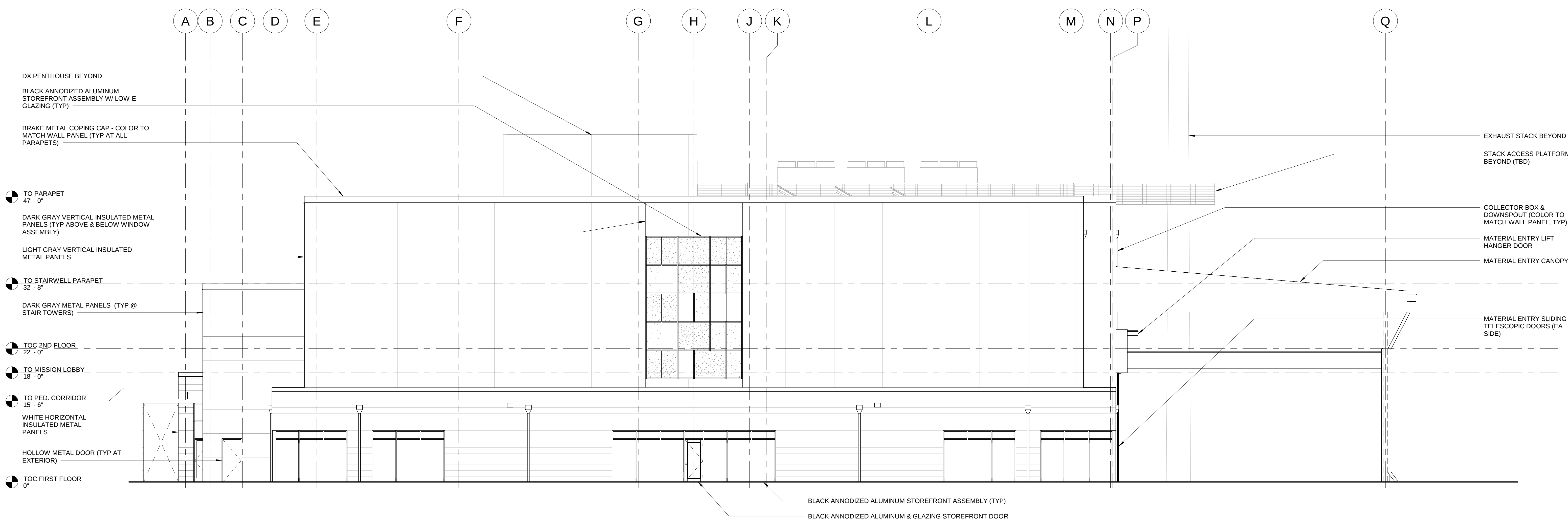
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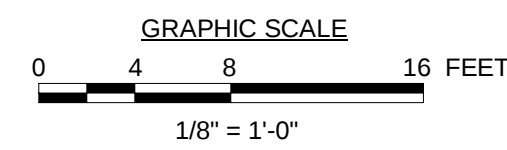
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A EAST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



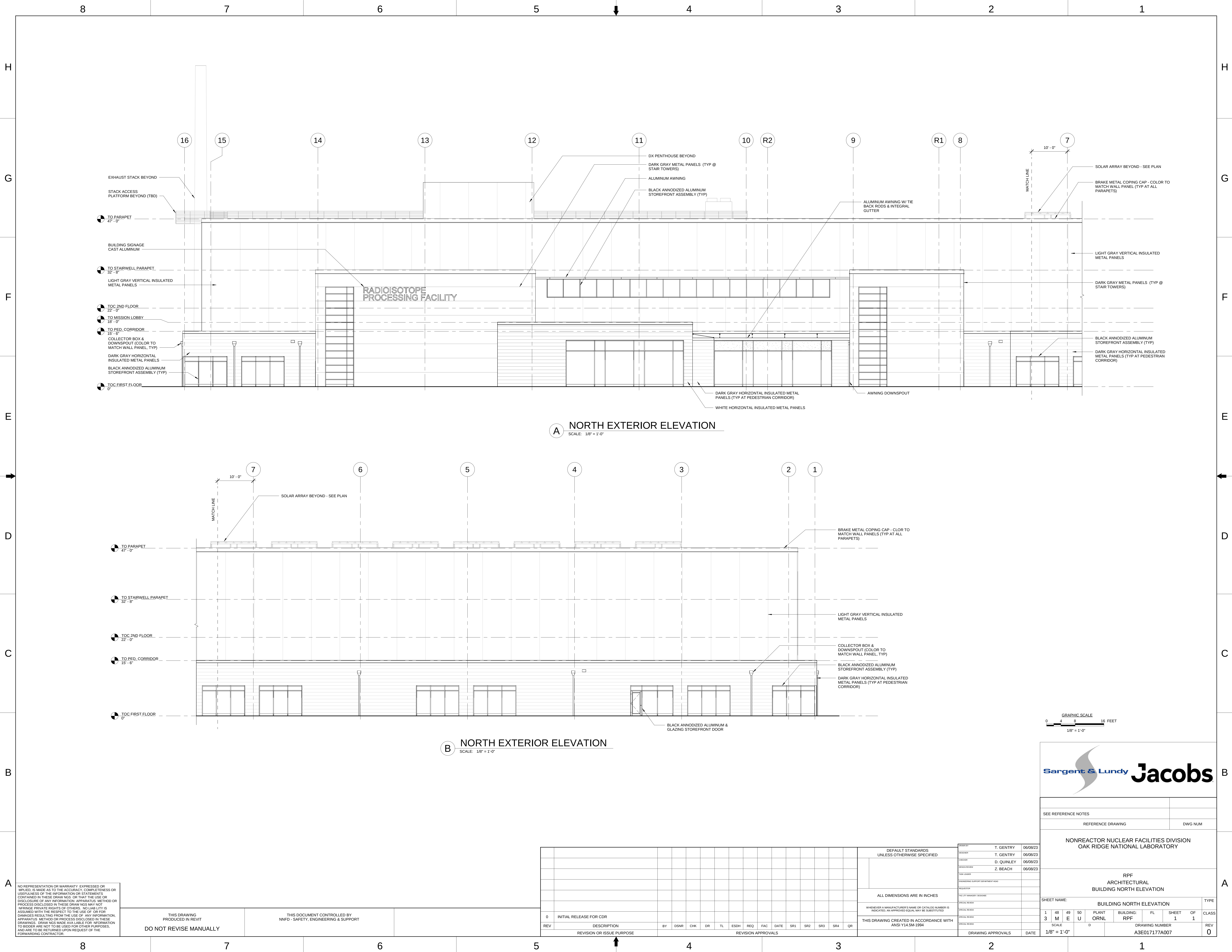
B WEST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



SEE REFERENCE NOTES											
REFERENCE DRAWING										DWG NUM	
NONREACTOR NUCLEAR FACILITIES DIVISION OAK RIDGE NATIONAL LABORATORY											
RPF ARCHITECTURAL BUILDING EAST & WEST ELEVATIONS											
SCALE 1/8" = 1'-0"										DRAWING NUMBER A3E01177A006	
1/8" = 1'-0"										REV 0	

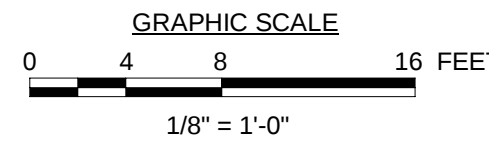
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A NORTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

B NORTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



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REV	DESCRIPTION	BY	DSNR	CHK	DR	TL	ESDH	REQ	FAC	DATE	SR1	SR2	SR3	SR4	QR
0	INITIAL RELEASE FOR CDR														
REVISION OR ISSUE PURPOSE															
REVISION APPROVALS															

DEFAULT STANDARDS UNLESS OTHERWISE SPECIFIED		DESIGNER	T. GENTRY	06/08/23
		CHECKER	D. QUINLEY	06/08/23
		DESIGN REVIEW	Z. BEACH	06/08/23
		FILED		
		ENGINEERING SUPPORT (DIFFERENT HAND)		
		REVISION		
		FACILITY MANAGER (DESIGNER)		
		ARCHITECT REVIEW		
		ARCHITECT REVIEW		
		ARCHITECT REVIEW		
		DRAWING APPROVALS		
		DATE		

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NONREACTOR NUCLEAR FACILITIES DIVISION OAK RIDGE NATIONAL LABORATORY									
RPF ARCHITECTURAL BUILDING NORTH ELEVATION									
SHEET NAME: BUILDING NORTH ELEVATION								TYPE	
1	48	49	50	PLANT	BUILDING:	FL	SHEET	OF	CLASS
3	M	E	U	ORNL	RPF		1	1	
SCALE				DRAWING NUMBER					
1/8" = 1'-0"				A3E01717A007					
				REV 0					

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NONREACTOR NUCLEAR FACILITIES DIVISION
OAK RIDGE NATIONAL LABORATORY

RPF ARCHITECTURAL BUILDING SOUTH ELEVATION									
SHEET NAME: BUILDING SOUTH ELEVATION									TYPE
1 3	48 M	49 E	50 U	PLANT ORNL	BUILDING: RPF	FL	SHEET 1	OF 1	CLASS
SCALE 1/8" = 1'-0"				D	DRAWING NUMBER A3E017177A008				REV 0

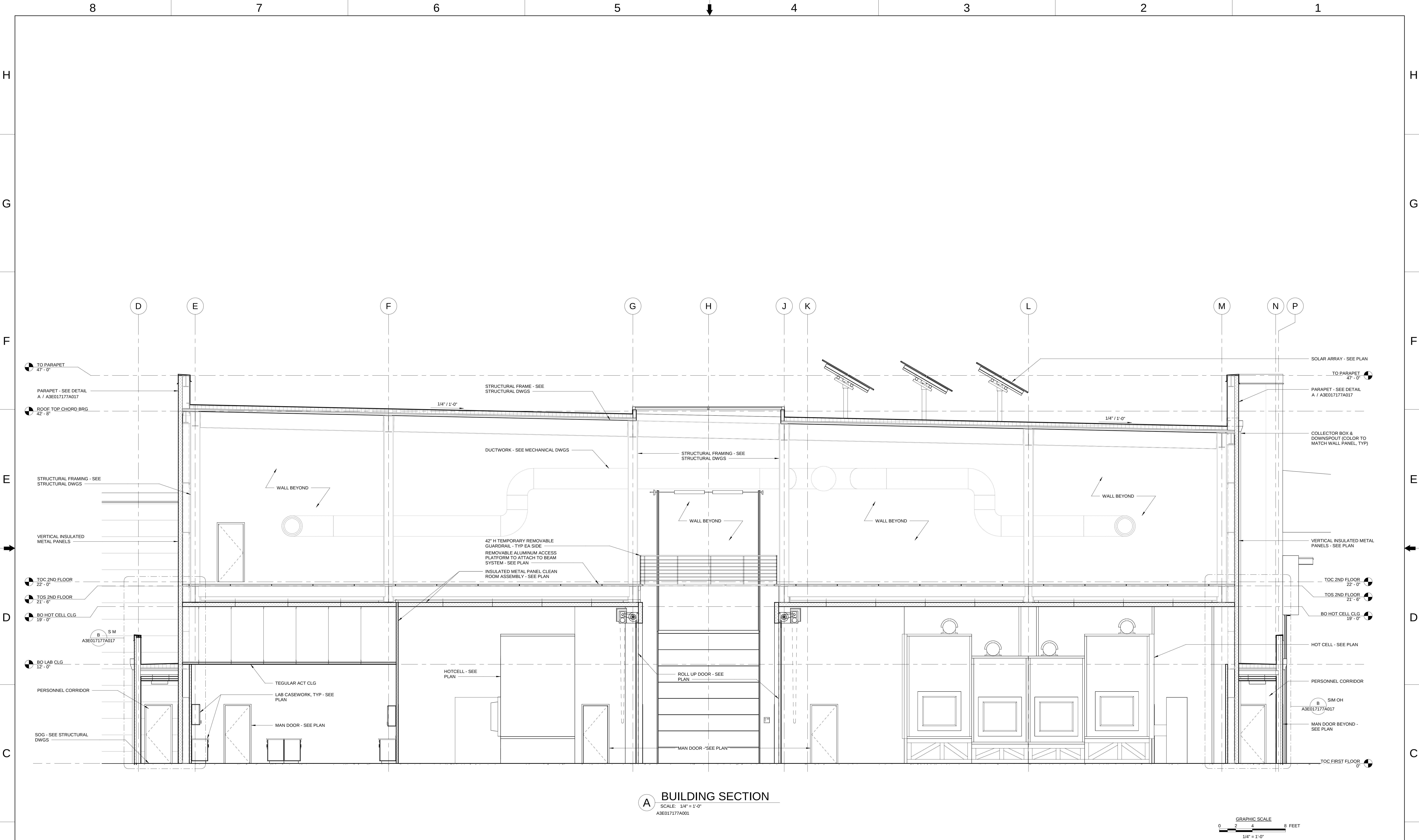
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[illegible]

DEFAULT STANDARDS UNLESS OTHERWISE SPECIFIED		DESIGNER	T. GENTRY	06/08/23
		CHECKER	T. GENTRY	06/08/23
		DRAWN BY	D. QUINLEY	06/08/23
		APP. LEADER	Z. BEACH	06/08/23
ENGINEERING SUPPORT DEPARTMENT HEAD				
REVISIONS				
HOLDING NUMBER - DISORDER				
APPROVAL REVIEW				
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APPROVAL REVIEW				
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APPROVAL REVIEW				
DRAWING APPROVALS				DATE



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REFERENCE NOTES:
REFERENCE DRAWINGS:
A3E017177A001 RPF: ARCHITECTURAL FIRST LEVEL - FLOOR PLAN
A3E017177A017 RPF: ARCHITECTURAL BUILDING ENLARGED SECTIONS

REV	DESCRIPTION	BY	DSNR	CHK	DR	TL	ESDH	REQ	FAC	DATE	SR1	SR2	SR3	SR4	QR
0	INITIAL RELEASE FOR CDR														

REVISION OR ISSUE PURPOSE

REVISION APPROVALS

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DESIGNED BY: L. BLACKWELL 06/08/23
DESIGNED BY: T. GENTRY 06/08/23
CHECKED BY: D. QUINLEY 06/08/23
DESIGNED BY: Z. BEACH 06/08/23
TYPED BY:
ENGINEERING SUPPORT (DEPARTMENT HEAD)
REVISION:
FACILITY MANAGER (DESIGNER)
ARCHITECT REVIEW:
ARCHITECT REVIEW:
ARCHITECT REVIEW:
DRAWING APPROVALS

DATE

SHEET NAME: BUILDING SECTION TYPE

1 48 49 50 PLANT BUILDING: FL SHEET OF CLASS
3 M E U ORNL RPF 1 1

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

DRAWING NUMBER: A3E017177A016 REV 0

SEE REFERENCE NOTES

REFERENCE DRAWING DWG NUM

NONREACTOR NUCLEAR FACILITIES DIVISION
OAK RIDGE NATIONAL LABORATORY

RPF
ARCHITECTURAL
BUILDING SECTION

SHEET NAME: BUILDING SECTION TYPE

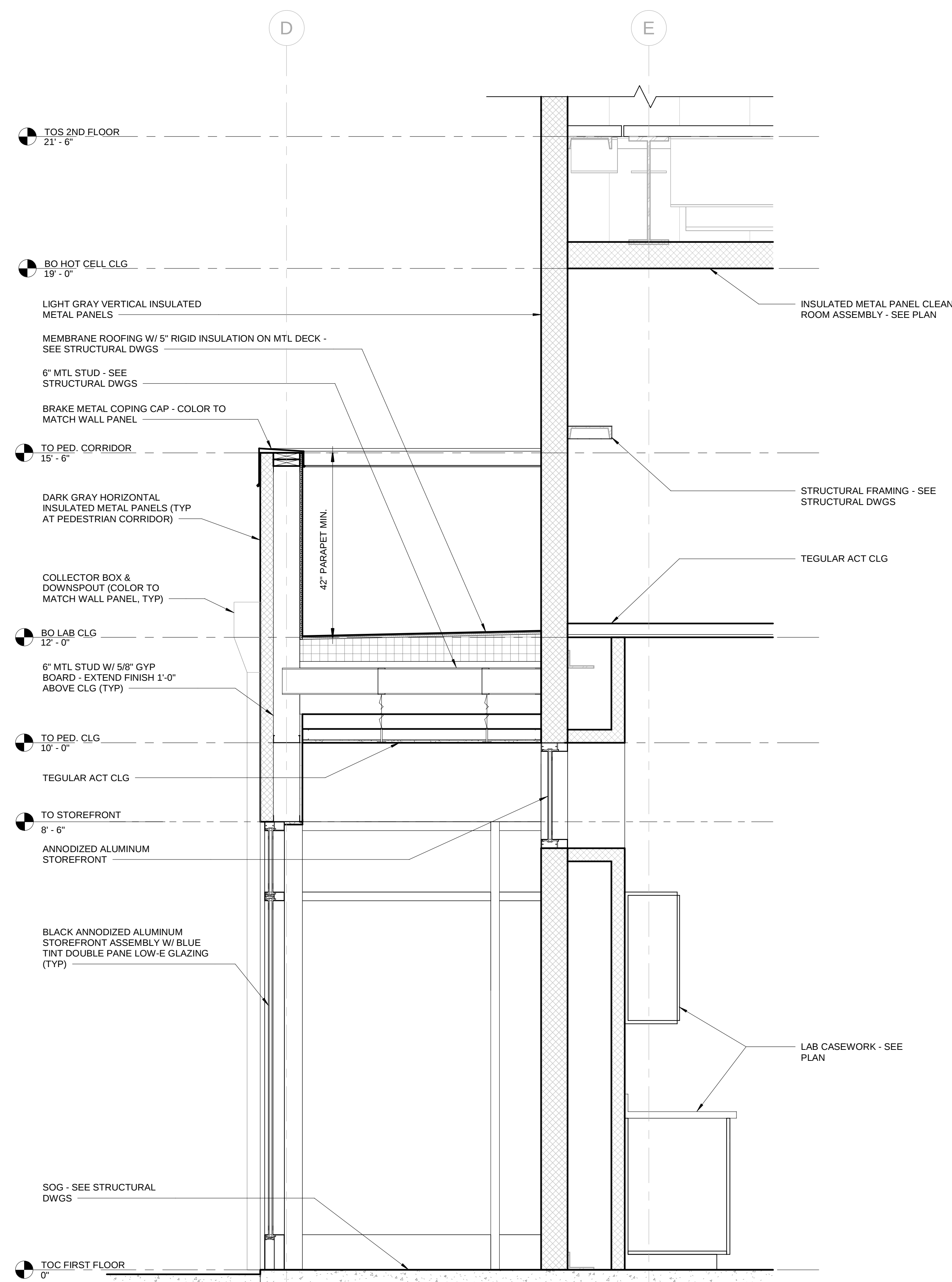
1 48 49 50 PLANT BUILDING: FL SHEET OF CLASS
3 M E U ORNL RPF 1 1

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

DRAWING NUMBER: A3E017177A016 REV 0

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B PERSONNEL CORRIDOR SECTION
SCALE: 3/4" = 1'-0"
A3E017177A001

REFERENCE DRAWINGS:
A3E017177A001 RPF, ARCHITECTURAL, FIRST LEVEL - FLOOR PLAN

															DEFAULT STANDARDS UNLESS OTHERWISE SPECIFIED										DESIGNER T. GENTRY 06/08/23			OAK RIDGE NATIONAL LABORATORY									
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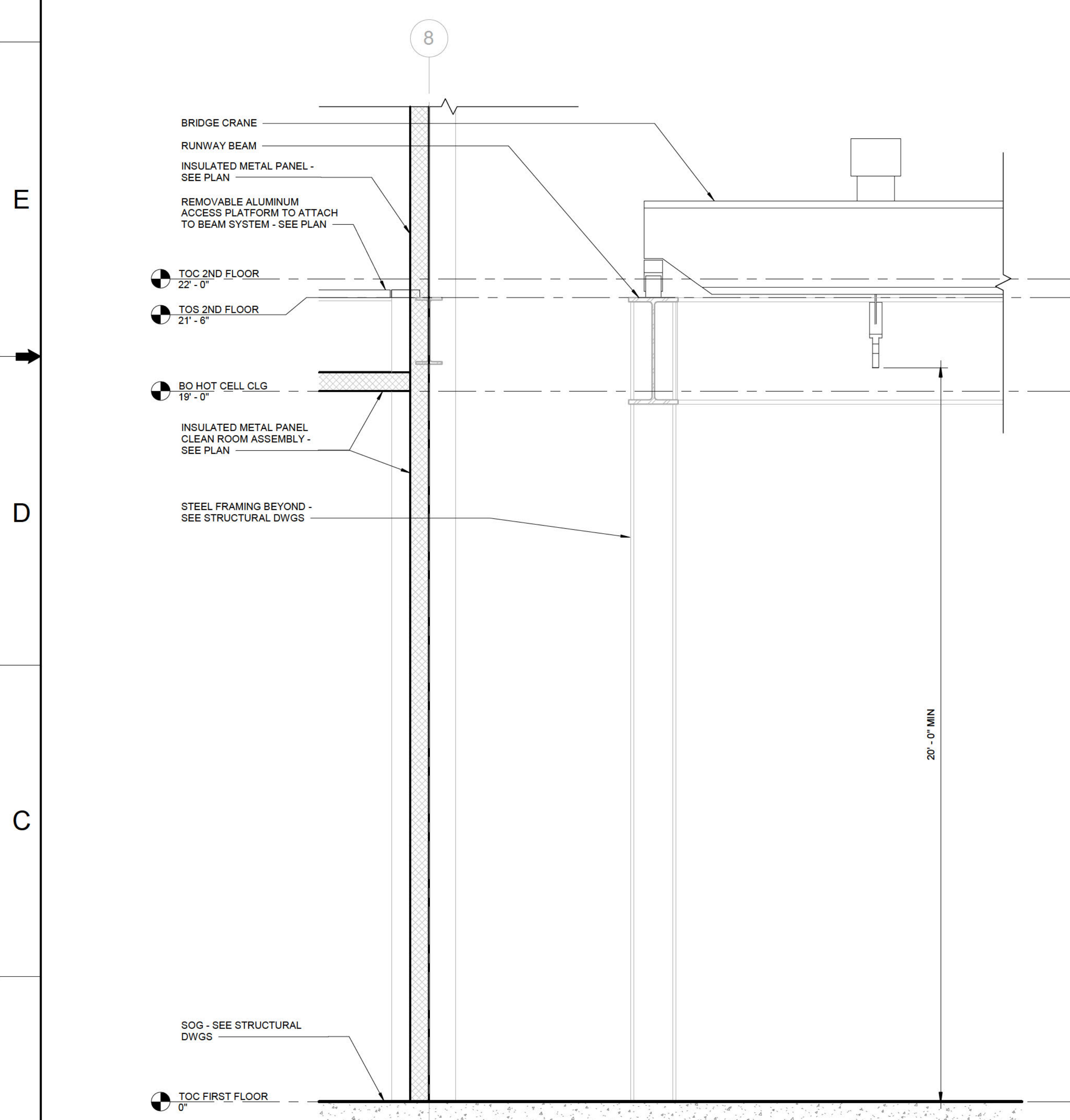
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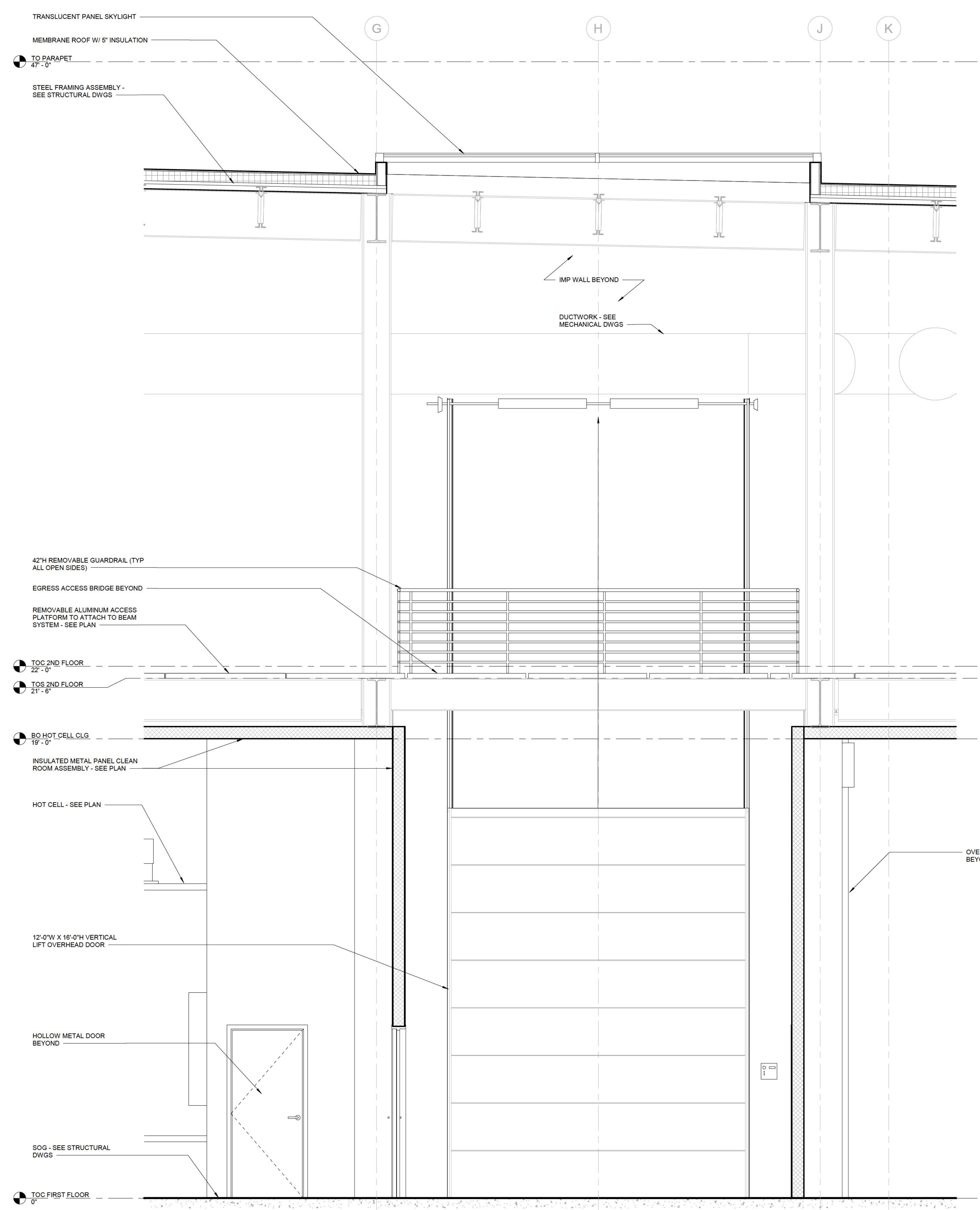
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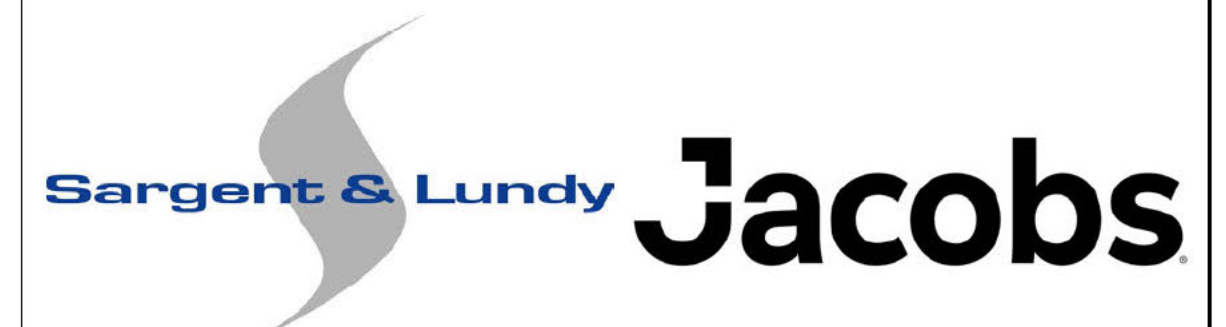
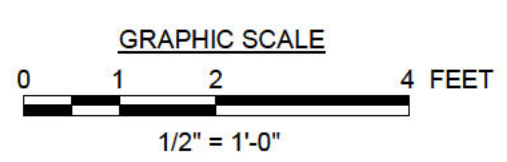
A BRIDGE CRANE SECTION
SCALE: 1/2" = 1'-0"
A3E017177A001



B MATERIAL HANDLING CORRIDOR SECTION
SCALE: 1/2" = 1'-0"
A3E017177A001

REFERENCE NOTES:

REFERENCE DRAWINGS:
A3E017177A001 RPF, ARCHITECTURAL, FIRST LEVEL - FLOOR PLAN



SEE REFERENCE NOTES																					
REFERENCE DRAWING										DWG NUM											
NONREACTOR NUCLEAR FACILITIES DIVISION OAK RIDGE NATIONAL LABORATORY																					
RPF ARCHITECTURAL BUILDING ENLARGED SECTIONS																					
SHEET NAME:										BUILDING ENLARGED SECTIONS										TYPE	
1	3	48	M	49	E	50	U	PLANT ORNL		BUILDING: RPF		FL		SHEET 1		OF 1		CLASS			
SCALE								D		DRAWING NUMBER										REV	
1/2" = 1'-0"										A3E017177A018										0	

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REV	DESCRIPTION	BY	DSNR	CHK	DR	TL	ESDH	REQ	FAC	DATE	SR1	SR2	SR3	SR4	GR
0	INITIAL RELEASE FOR CDR														
REVISION OR ISSUE PURPOSE															
REVISION APPROVALS															

DEFAULT STANDARDS UNLESS OTHERWISE SPECIFIED	
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THIS DRAWING CREATED IN ACCORDANCE WITH ANSI Y14.5M-1994	

DESIGNED BY	T. GENTRY	08/08/23
CHECKED BY	T. GENTRY	08/08/23
DESIGNED BY	D. QUINLEY	08/08/23
DESIGNED BY	Z. BEACH	08/08/23
TASK LEADER		
ENGINEERING SUPPORT (DEPARTMENT HEAD)		
REVISION		
FACILITY MANAGER (DESIGNEE)		
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DATE		

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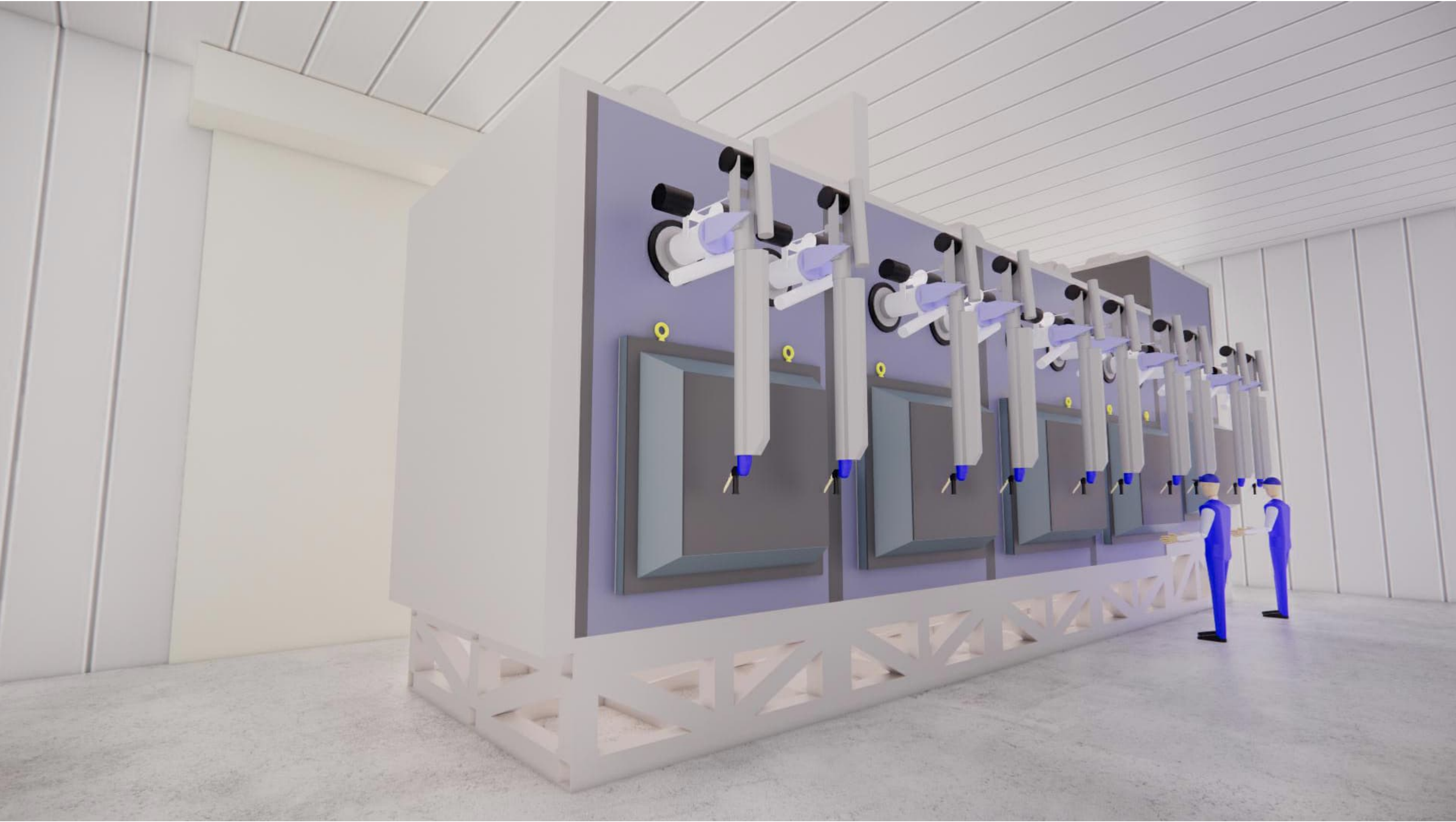
VIEW OF MISSION LOBBY ENTRY



VIEW OF MATERIAL HANDLING CORRIDOR



VIEW OF TRUCK BAY



VIEW OF HOT CELL

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REV	DESCRIPTION	BY	DSNR	CHK	DR	TL	ESDH	REQ	FAC	DATE	SR1	SR2	SR3	SR4	QR
0	INITIAL RELEASE FOR CDR														

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WHENEVER A MANUFACTURER'S NAME OR CATALOG NUMBER IS INDICATED, AN APPROVED EQUAL MAY BE SUBSTITUTED
THIS DRAWING CREATED IN ACCORDANCE WITH ANSI Y34.5M-1994

DESIGNED BY	T. GENTRY	06/08/23
CHECKED BY	T. GENTRY	06/08/23
DESIGNED BY	D. QUINLEY	06/08/23
DESIGNED BY	Z. BEACH	06/08/23
ENGINEERING SUPPORT (OPTIONAL)		
REVISION		
FACILITY MANAGER (OPTIONAL)		
ARCHITECT REVIEW		
ARCHITECT REVIEW		
ARCHITECT REVIEW		
DRAWING APPROVALS		
DATE		

SEE REFERENCE NOTES		DWG NUM	
REFERENCE DRAWING		DWG NUM	
NONREACTOR NUCLEAR FACILITIES DIVISION OAK RIDGE NATIONAL LABORATORY			
RPF ARCHITECTURAL BUILDING PEDESTRIAN 3D RENDERINGS			
SHEET NAME:		TYPE	
BUILDING PEDESTRIAN 3D RENDERINGS		TYPE	
1	48	49	50
3	M	E	U
PLANT ORNL	BUILDING: RPF	FL	SHEET OF
SCALE	D	1	1
NOT TO SCALE	DRAWING NUMBER	REV	0
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