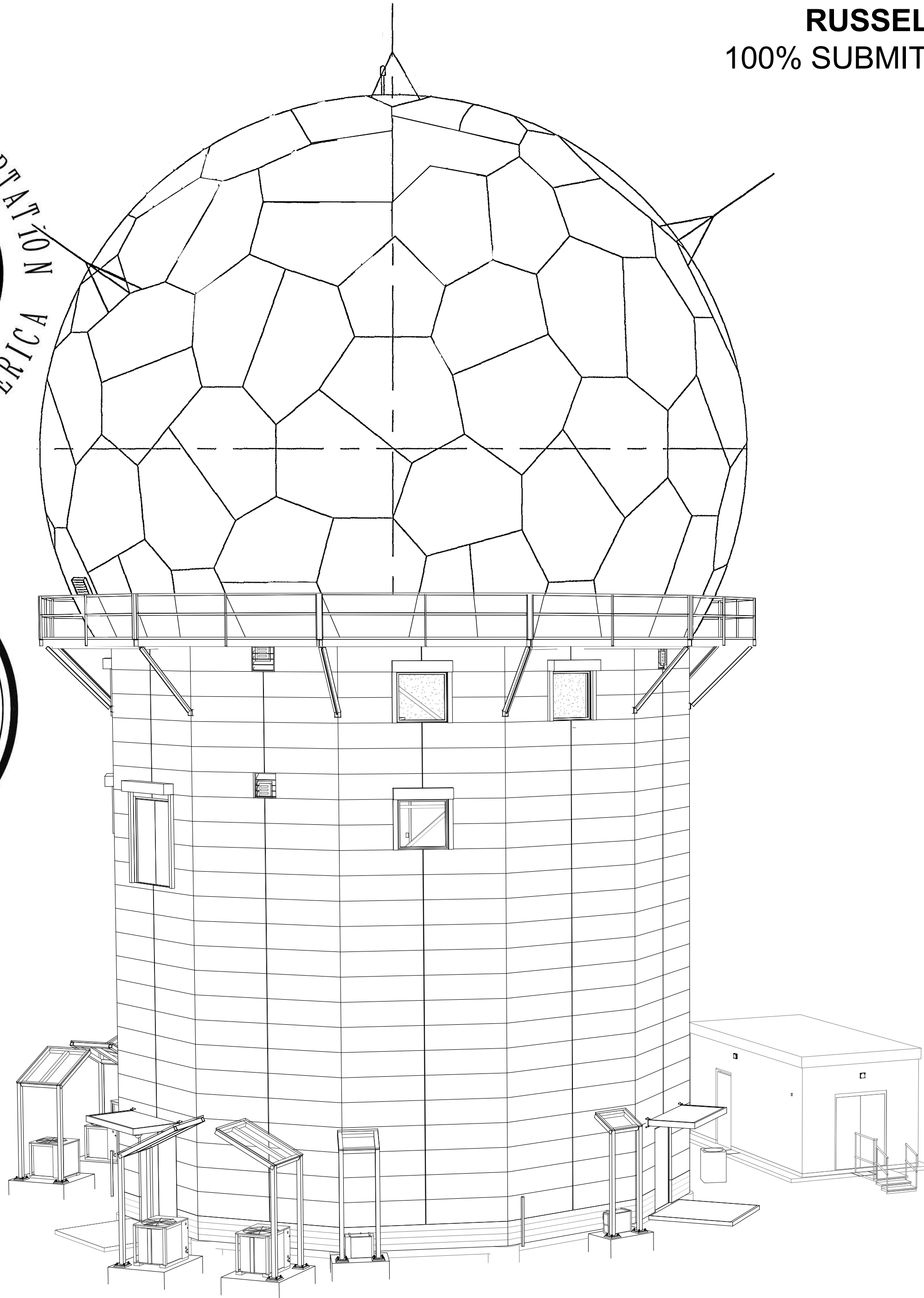
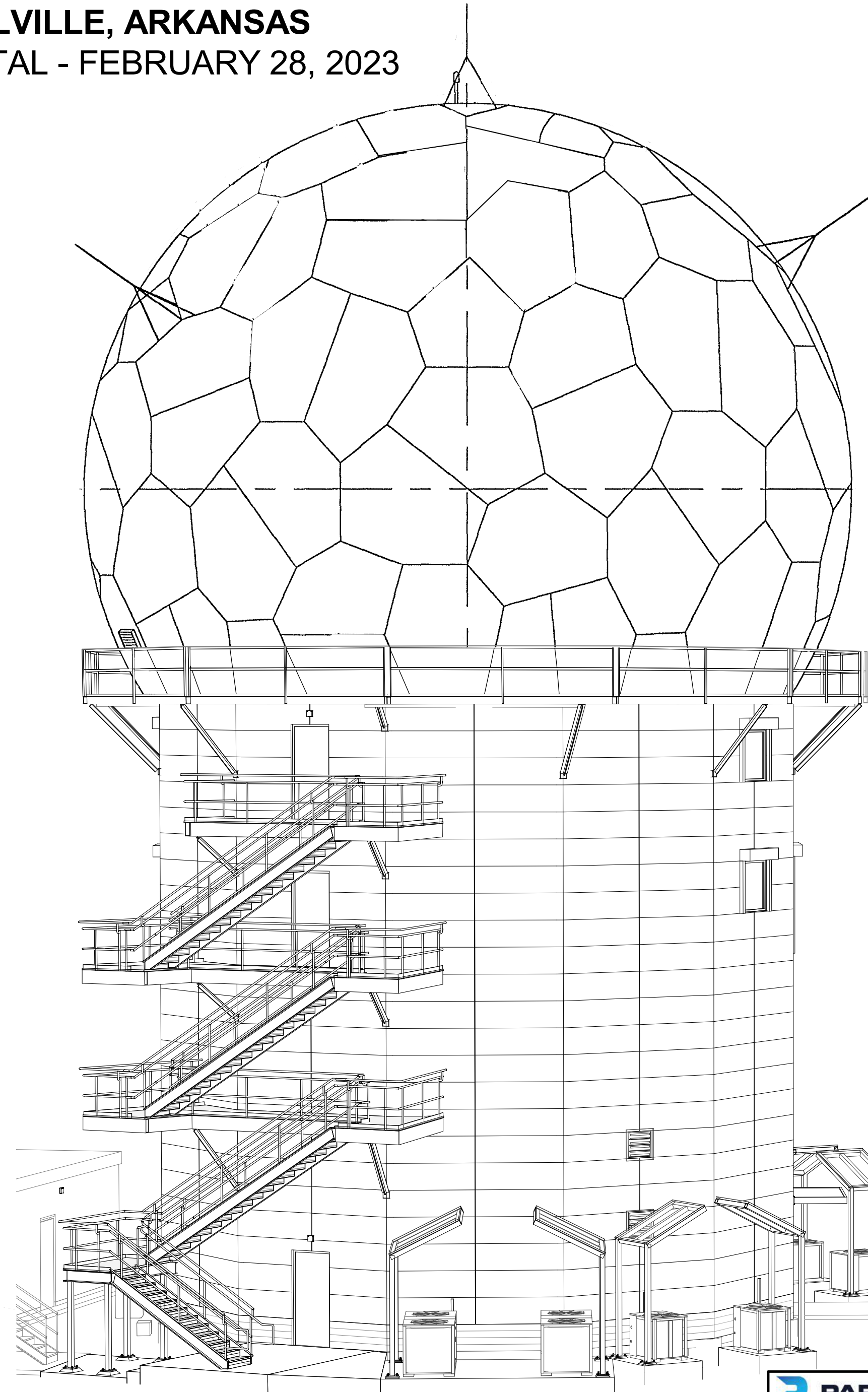


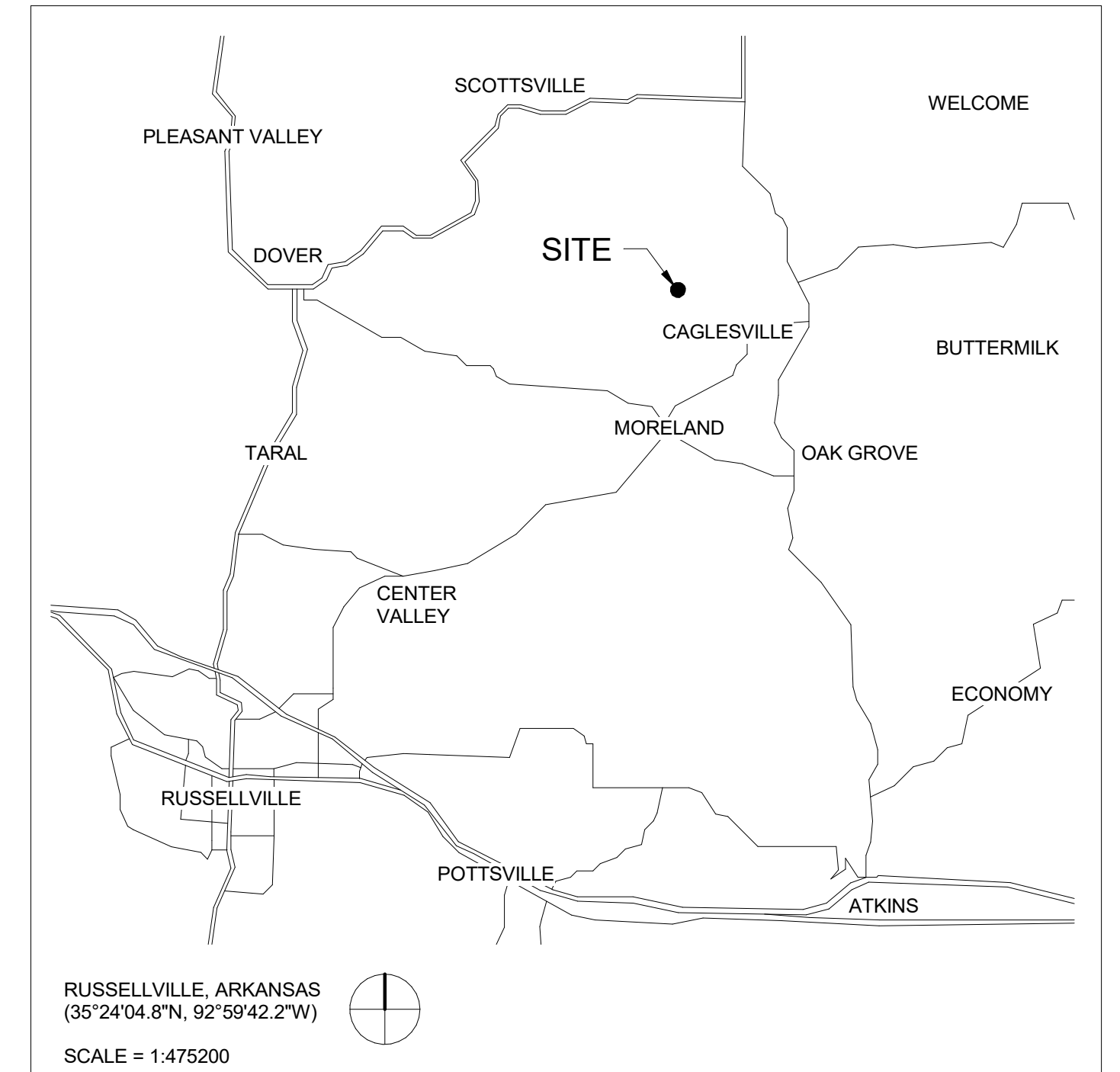
**QXR - ARSR FACILITY**  
**RUSSELLVILLE, ARKANSAS**  
100% SUBMITTAL - FEBRUARY 28, 2023



PERSPECTIVE VIEW - NORTH



PERSPECTIVE VIEW - SOUTH



**UNCHECKED  
WORK-IN-PROGRESS**

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PTSI Managed Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA



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ISSUED FOR: 100% SUBMITTAL



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D R A W I N G I N D E X

SHEET NAME

GENERAL		
QXR	22002872	G001
QXR	22002872	G002
CIVIL		
QXR	22002872	C001
QXR	22002872	C010
QXR	22002872	CD101
QXR	22002872	CD901
QXR	22002872	C101
QXR	22002872	C201
QXR	22002872	C301
QXR	22002872	C351
QXR	22002872	C501
QXR	22002872	C701
QXR	22002872	C801
QXR	22002872	C901
ARCHITECTURE		
QXR	22002872	A001
QXR	22002872	A002
QXR	22002872	A004
QXR	22002872	A010
QXR	22002872	AD101
QXR	22002872	AD102
QXR	22002872	AD103
QXR	22002872	AD104
QXR	22002872	AD121
QXR	22002872	AD122
QXR	22002872	AD123
QXR	22002872	AD201
QXR	22002872	A101
QXR	22002872	A111
QXR	22002872	A121
QXR	22002872	A131
QXR	22002872	A151
QXR	22002872	A161
QXR	22002872	A171
QXR	22002872	A201
QXR	22002872	A202
QXR	22002872	A301
QXR	22002872	A302
QXR	22002872	A311
QXR	22002872	A401
QXR	22002872	A411
QXR	22002872	A421
QXR	22002872	A521
QXR	22002872	A601
QXR	22002872	A602
QXR	22002872	A603
QXR	22002872	A604
QXR	22002872	A606
QXR	22002872	A608
QXR	22002872	A610
QXR	22002872	A611
QXR	22002872	A621
QXR	22002872	A623
QXR	22002872	A631
QXR	22002872	A641
QXR	22002872	A644
STRUCTURAL		
QXR	22002872	S001
QXR	22002872	S002
QXR	22002872	S003
QXR	22002872	S004
QXR	22002872	S005
QXR	22002872	SD101
QXR	22002872	SD102
QXR	22002872	SD103
QXR	22002872	SD104
QXR	22002872	SD301
QXR	22002872	SD302
QXR	22002872	SD303
QXR	22002872	SD304
QXR	22002872	SD305
QXR	22002872	S101
QXR	22002872	S102
QXR	22002872	S103
QXR	22002872	S104
QXR	22002872	S301
QXR	22002872	S302
QXR	22002872	S303
QXR	22002872	S304
QXR	22002872	S305
QXR	22002872	S306
QXR	22002872	S401
QXR	22002872	S402
QXR	22002872	S601
QXR	22002872	S602
QXR	22002872	S603
QXR	22002872	S604
QXR	22002872	S605
QXR	22002872	S606
QXR	22002872	S900
QXR	22002872	S901

COVER SHEET	
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ELECTRICAL SITE PLAN - DEMOLITION	
SITE PLAN	
GRADING PLAN	
EROSION CONTROL PLAN	
EROSION CONTROL DETAILS	
UTILITY PLAN	
FENCING AND GATE DETAILS	
SITE DETAILS	
ELECTRICAL SITE PLAN	

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LEGEND, SYMBOLS, & ABBREVIATIONS	
ACCESSIBILITY	
ARCHITECTURAL SITE PLAN	
DEMOLITION PLAN - FIRST FLOOR	
DEMOLITION PLAN - SECOND FLOOR	
DEMOLITION PLAN - THIRD FLOOR	
DEMOLITION PLAN - RADOME LEVEL	
DEMOLITION PLAN - FIRST FLOOR REFLECTED CEILING	
DEMOLITION PLAN - SECOND FLOOR REFLECTED CEILING	
DEMOLITION PLAN - THIRD FLOOR REFLECTED CEILING	
DEMOLITION - BUILDING EXTERIOR ELEVATIONS	
FIRST FLOOR PLAN	
SECOND FLOOR PLAN	
THIRD FLOOR PLAN	
RADOME PLATFORM PLAN	
FIRST FLOOR REFLECTED CEILING PLAN	
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BUILDING SECTION	
BUILDING SECTION	
WALL SECTIONS	
ENLARGED FLOOR PLANS	
EXTERIOR STAIRS PLANS AND ELEVATION	
ENLARGED INTERIOR ELEVATIONS	
PLAN DETAILS	
PARTITION FRAMING DETAILS	
PARTITION BACKING PLATE DETAILS	
FRAMING DETAILS	
IMP DETAILS	
CEILING DETAILS	
STAIR DETAILS	
MILLWORK AND FLOOR BASE DETAILS	
RADOME ALTERNATING TREAD STAIR AND ROOF HATCH DETAILS	
DOOR SCHEDULE	
DOOR DETAILS	
PARTITION AND WALL TYPES	
FINISH AND WINDOW SCHEDULES	
EXTERIOR WINDOW DETAILS	

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GENERAL STRUCTURAL NOTES	
GENERAL STRUCTURAL NOTES	
GENERAL STRUCTURAL NOTES	
CC WIND FORCES	
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SECOND FLOOR DEMOLITION PLAN	
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ROOF / RADOME BASE DEMOLITION PLAN	
DEMOLITION FRAME ELEVATIONS	
DEMOLITION FRAME ELEVATIONS	
DEMOLITION FRAME ELEVATIONS	
DEMOLITION FRAME ELEVATIONS	
DEMOLITION FRAME ELEVATIONS	
FIRST FLOOR PLAN	
SECOND FLOOR PLAN	
THIRD FLOOR PLAN	
ROOF / RADOME BASE PLAN	
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FRAME ELEVATIONS	
FRAME ELEVATIONS	
FRAME ELEVATIONS	
FRAME ELEVATIONS	
FRAME ELEVATIONS	
STAIR FRAMING PLANS	
HVAC EQUIPMENT COVER FRAMING PLANS	
STANDARD CONCRETE DETAILS	
STANDARD STEEL DETAILS	
SECTIONS AND DETAILS	
STAIR SECTIONS AND DETAILS	
SECTIONS AND DETAILS	
STANDARD STAIR DETAILS	
3D VIEWS	
3D VIEWS	

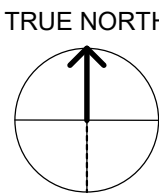
SHEET NAME

MECHANICAL			
QXR	22002872	M001	LEGEND, SYMBOLS AND NOTES
QXR	22002872	MD101	DEMOLITION - FIRST FLOOR PLAN
QXR	22002872	MD102	DEMOLITION - SECOND FLOOR PLAN
QXR	22002872	MD103	DEMOLITION - THIRD FLOOR PLAN
QXR	22002872	M101	FIRST FLOOR PLAN
QXR	22002872	M102	SECOND FLOOR PLAN
QXR	22002872	M103	THIRD FLOOR PLAN
QXR	22002872	M300	SECTIONS
QXR	22002872	M500	EQUIPMENT SCHEDULES
QXR	22002872	M600	DETAILS
QXR	22002872	M601	DETAILS
QXR	22002872	M602	NDP CONTROLLER
QXR	22002872	M900	ISOMETRIC VIEWS
PLUMBING			
QXR	22002872	P001	LEGEND, SYMBOLS AND NOTES
QXR	22002872	PD101	DEMOLITION - FIRST FLOOR PLAN
QXR	22002872	PD102	DEMOLITION - SECOND FLOOR PLAN
QXR	22002872	PD103	DEMOLITION - THIRD FLOOR PLAN
QXR	22002872	P101	FIRST FLOOR PLAN
QXR	22002872	P102	SECOND FLOOR PLAN
QXR	22002872	P103	THIRD FLOOR PLAN
QXR	22002872	P600	DETAILS
QXR	22002872	P601	DETAILS
QXR	22002872	P901	PLUMBING - ISOMETRIC VIEWS
ELECTRICAL			
QXR	22002872	E001	LEGEND, SYMBOLS, NOTES AND ABBREVIATIONS
QXR	22002872	ED101	ELECTRICAL DEMOLITION - LIGHTING PLAN - FIRST FLOOR
QXR	22002872	ED102	ELECTRICAL DEMOLITION - LIGHTING PLAN - SECOND FLOOR
QXR	22002872	ED103	ELECTRICAL DEMOLITION - LIGHTING PLAN -THIRD FLOOR
QXR	22002872	ED104	ELECTRICAL DEMOLITION - LIGHTING PLAN - RADOME BASE
QXR	22002872	ED121	ELECTRICAL DEMOLITION - POWER PLAN - FIRST FLOOR
QXR	22002872	ED122	ELECTRICAL DEMOLITION - POWER PLAN - SECOND FLOOR
QXR	22002872	ED123	ELECTRICAL DEMOLITION - POWER PLAN - THIRD FLOOR
QXR	22002872	ED125	ELECTRICAL DEMOLITION - MECHANICAL POWER PLAN - FIRST FLOOR
QXR	22002872	ED126	ELECTRICAL DEMOLITION - MECHANICAL POWER PLAN - SECOND FLOOR
QXR	22002872	ED127	ELECTRICAL DEMOLITION - MECHANICAL POWER PLAN - THIRD FLOOR
QXR	22002872	ED801	ELECTRICAL DEMOLITION - SINGLE LINE DIAGRAM
QXR	22002872	E101	LIGHTING PLAN - FIRST FLOOR
QXR	22002872	E102	LIGHTING PLAN - SECOND FLOOR
QXR	22002872	E103	LIGHTING PLAN - THIRD FLOOR
QXR	22002872	E104	LIGHTING PLAN - RADOME BASE
QXR	22002872	E121	POWER PLAN - FIRST FLOOR
QXR	22002872	E122	POWER PLAN - SECOND FLOOR
QXR	22002872	E123	POWER PLAN - THIRD FLOOR
QXR	22002872	E124	POWER PLAN - RADOME BASE
QXR	22002872	E125	MECHANICAL POWER PLAN - FIRST FLOOR
QXR	22002872	E126	MECHANICAL POWER PLAN - SECOND FLOOR
QXR	22002872	E127	MECHANICAL POWER PLAN - THIRD FLOOR
QXR	22002872	E401	PHOTOMETRIC PLAN - FIRST FLOOR
QXR	22002872	E402	PHOTOMETRIC PLAN - SECOND FLOOR
QXR	22002872	E403	PHOTOMETRIC PLAN - THIRD FLOOR
QXR	22002872	E404	PHOTOMETRIC PLAN - RADOME BASE
QXR	22002872	E405	ENLARGED LIGHTING PLAN - E/G BUILDING
QXR	22002872	E406	ENLARGED PLAN - PUMP HOUSE
QXR	22002872	E407	ENLARGED PLAN - RADOME ACCESS HATCH
QXR	22002872	E408	ENLARGED LIGHTING PLAN - STAIRS
QXR	22002872	E501	PANELBOARD SCHEDULES - NEW
QXR	22002872	E502	PANELBOARD SCHEDULES - FIRST FLOOR
QXR	22002872	E503	PANELBOARD SCHEDULES - SECOND FLOOR
QXR	22002872	E504	PANELBOARD SCHEDULES - THIRD FLOOR
QXR	22002872	E550	LIGHTING FIXTURE SCHEDULES
QXR	22002872	E601	DETAILS - DOOR SECTION
QXR	22002872	E602	DETAILS - GROUNDING - FENCE
QXR	22002872	E603	DETAILS - LIGHTING
QXR	22002872	E604	DETAILS - LIGHTING
QXR	22002872	E605	DETAILS - POWER
QXR	22002872	E606	DETAILS - MISCELLANEOUS
QXR	22002872	E607	DETAILS - PULL BOX
QXR	22002872	E801	SINGLE LINE DIAGRAM
QXR	22002872	E802	SINGLE LINE DIAGRAM SCHEDULES
QXR	22002872	E803	ARC FLASH SINGLE LINE DIAGARM (FOR REFERENCE ONLY)
SECURITY			
QXR	22002872	Y001	LEGEND, SYMBOLS, AND NOTES
QXR	22002872	Y101	SECURITY PLAN - FIRST FLOOR
QXR	22002872	Y601	SECURITY - DETAILS
FIRE PROTECTION			
QXR	22002872	F001	LEGEND, SYMBOLS AND NOTES
QXR	22002872	F101	FIRE LIFE SAFETY FLOOR PLAN - FIRST FLOOR
QXR	22002872	FD101	FIRE PROTECTION DEMOLITION FLOOR PLAN - FIRST FLOOR
QXR	22002872	FD102	FIRE PROTECTION DEMOLITION FLOOR PLAN - SECOND FLOOR
QXR	22002872	FD103	FIRE PROTECTION DEMOLITION FLOOR PLAN - THIRD FLOOR
QXR	22002872	F102	FIRE LIFE SAFETY FLOOR PLAN - SECOND FLOOR
QXR	22002872	F103	FIRE LIFE SAFETY FLOOR PLAN - THIRD FLOOR
QXR	22002872	F501	FIRE ALARM FLOOR PLAN - FIRST FLOOR
QXR	22002872	F502	FIRE ALARM FLOOR PLAN - SECOND FLOOR
QXR	22002872	F503	FIRE ALARM FLOOR PLAN - THIRD FLOOR
QXR	22002872	F541	FIRE ALARM RISER DIAGRAM
QXR	22002872	F551	FIRE ALARM DETAILS
QXR	22002872	F552	FIRE ALARM DETAILS
QXR	22002872	F571	FIRE ALARM CALCULATIONS









## GENERAL SHEET NOTES













1. FOR ABBREVIATIONS, LEGEND, AND GENERAL NOTES, REFER TO SHEET C001.
2. EXISTING SITE CONDITIONS TO BE VERIFIED DURING CONSTRUCTION.
3. EXISTING FEATURES OUTSIDE OF SURVEY LIMITS WERE LOCATED BY EXISTING SITE INFORMATION.
4. CONTRACTOR SHALL USE GROUND PENETRATING RADAR TO LOCATE EXISTING UTILITIES AT AREAS OF DEMOLITION PRIOR TO COMMENCING EXCAVATION.
5. PROPERTY BOUNDARY SHOWN ON DRAWING IS BASED ON RECORD INFORMATION AND A BOUNDARY SURVEY WAS NOT PERFORMED.

## SURVEY CONTROL TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
TBM 1	390,668.2396'	1,016,204.5900'	1,088.90'	TEMPORARY BENCHMARK - 5/8" REBAR W/ALUMINUM CAP
TBM 2	390,853.6607'	1,016,218.8270'	1,092.07'	TEMPORARY BENCHMARK - 5/8" REBAR W/ALUMINUM CAP

BASIS OF SURVEY: HORIZONTAL COORDINATES ARE IN THE ARKANSAS NORTH STATE PLANE ZONE, NORTH AMERICAN DATUM 1983 (NAD83). THE VERTICAL COORDINATES ARE IN THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

## LEGEND

	PROPERTY BOUNDARY
	SURVEY LIMITS
	EXISTING CONCRETE PAVEMENT
	EXISTING FENCE
	EXISTING EDGE OF ASPHALT PAVEMENT
	EXISTING CONTOUR
	EXISTING U/G POWER
	EXISTING U/G SANITARY SEWER
	EXISTING U/G WATER
	EXISTING TELEPHONE
	EXISTING VEGETATION
	EXISTING TREE

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WORK-IN-PROGRESS**

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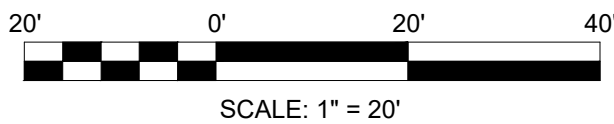
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*A*

**A6** EXISTING SITE & UTILITY PLAN  
C010 SCALE: 1" = 20'



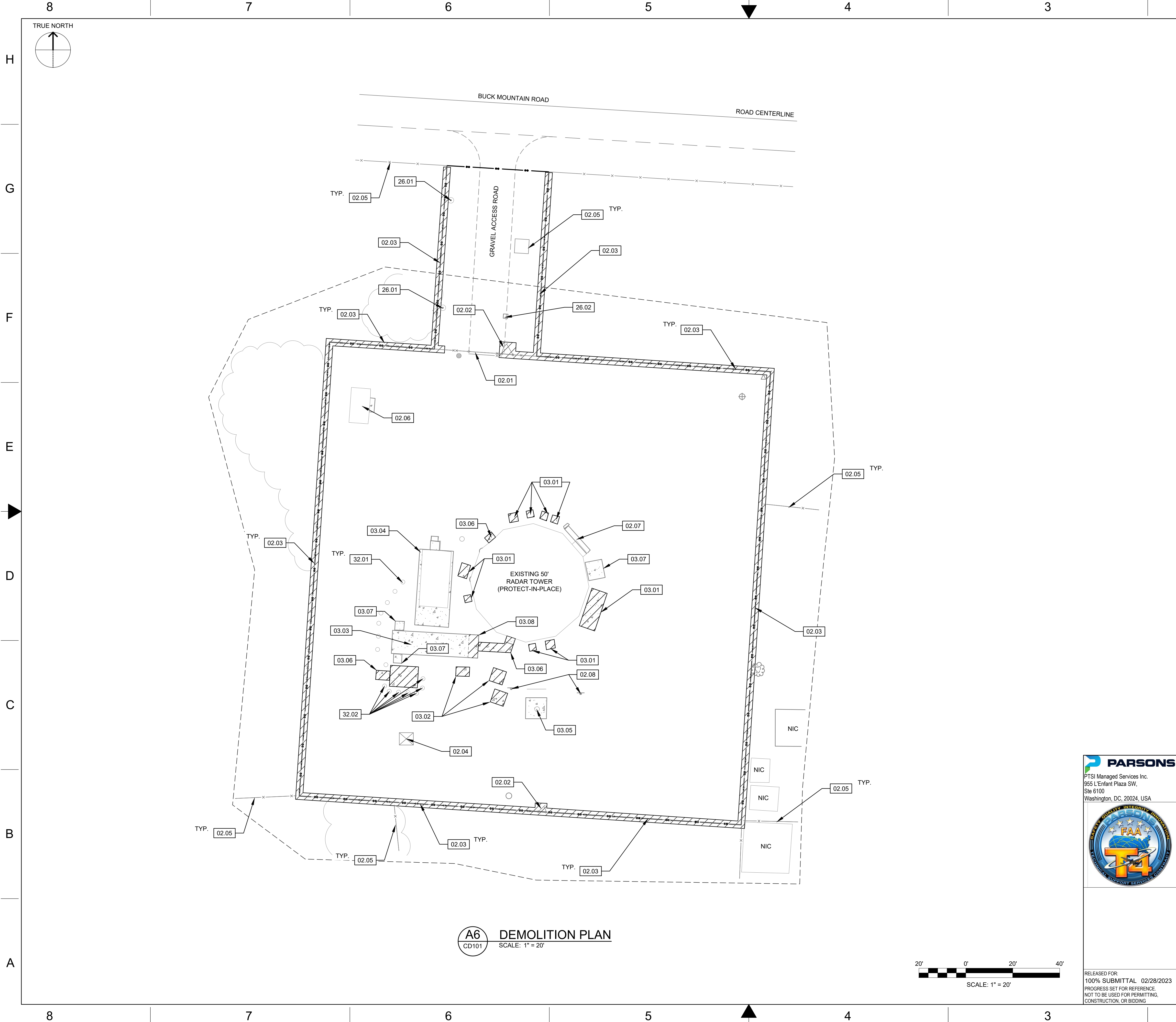
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Ste 6100  
Washington, DC, 20024, USA



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[illegible]





GENERAL SHEET NOTES	
1.	FOR ABBREVIATIONS, LEGEND, AND GENERAL NOTES, REFER TO SHEET C001.
2.	BACKFILL EXCAVATED AREAS IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00.
3.	EXISTING SITE CONDITIONS TO BE VERIFIED DURING CONSTRUCTION.
4.	EXISTING FEATURES OUTSIDE OF SURVEY LIMITS WERE LOCATED BY EXISTING SITE INFORMATION.

KEYNOTES	
02.01	REMOVE SLIDING VEHICLE ACCESS GATE.
02.02	REMOVE EXISTING PERIMETER PEDESTRIAN GATE. PROTECT IN PLACE EXISTING FENCE POSTS.
02.03	REMOVE EXISTING FENCE FABRIC AND BARBED WIRE. PROTECT IN PLACE EXISTING FENCE POSTS.
02.04	PROTECT IN PLACE EXISTING MISCELLANEOUS STRUCTURE.
02.05	PROTECT IN PLACE EXISTING FENCE.
02.06	PROTECT IN PLACE EXISTING PUMP HOUSE.
02.07	REMOVE EXISTING STAIRCASE.
02.08	PROTECT IN PLACE EXISTING WARNING SIGN.
03.01	REMOVE EXISTING A/C UNIT CONCRETE PAD.
03.02	REMOVE EXISTING CONCRETE PAD.
03.03	PROTECT IN PLACE EXISTING FUEL TANK AND CONCRETE PAD.
03.04	PROTECT IN PLACE EXISTING ENGINE GENERATOR BUILDING AND CONCRETE PAD.
03.05	PROTECT IN PLACE EXISTING RADAR ANTENNA CONCRETE PAD.
03.06	REMOVE EXISTING CONCRETE SLAB.
03.07	PROTECT IN PLACE EXISTING CONCRETE SLAB.
03.08	REMOVE PORTION OF EXISTING CONCRETE SLAB. REFER TO SHEET AD101.
26.01	PROTECT IN PLACE EXISTING POWER POLE.
26.02	PROTECT IN PLACE EXISTING INTERCOM SYSTEM.
32.01	PROTECT IN PLACE EXISTING BOLLARDS.
32.02	REMOVE EXISTING BOLLARDS.

LEGEND	
	PROPERTY BOUNDARY
	SURVEY LIMITS
	REMOVE EXISTING FENCE FABRIC AND BARBED WIRE
	EXISTING CONCRETE PAVEMENT TO REMAIN
	REMOVE EXISTING CONCRETE PAVEMENT
	EXISTING FENCE
	EXISTING EDGE OF ASPHALT PAVEMENT
	EXISTING VEGETATION
	EXISTING TREE

UNCHECKED  
WORK-IN-PROGRESS

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PTSI Managed Services Inc.  
965 L'Enfant Plaza SW,  
Ste 6100  
Washington, DC, 20024, USA

FAA  
T4  
FAA  
T4  
FAA  
T4

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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA					
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DEMOLITION PLAN					
RUSSELLVILLE AR					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
		DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN			
	PROJECT ENGINEER	MGR: ENGINEERING			
	DESIGNED JC	ISSUED BY		DATE	JCN 18060677
	DRAWN JC	ENGINEERING SERVICES		DRAWING NO	REV
	CHECKED EAH			QXR - 22002872 - CD101	

NOT FOR CONSTRUCTION

ISSUED FOR: 100% SUBMITTAL









CONCRETE			
ID	NORTHING	EASTING	DESC
1006	390787.87644	1016095.42871	CONCRETE SLAB
1007	390786.85306	1016105.63668	CONCRETE SLAB
1008	390745.10929	1016104.98832	CONCRETE PAD
1009	390727.49307	1016111.81806	CONCRETE PAD
1010	390736.22892	1016118.42080	CONCRETE PAD
1011	390729.46012	1016136.71790	CONCRETE PAD
1012	390740.17024	1016133.93579	CONCRETE PAD
1013	390739.14045	1016141.48231	CONCRETE PAD
1014	390746.73279	1016141.41895	CONCRETE PAD
1015	390745.70300	1016148.96547	CONCRETE PAD
1016	390779.23855	1016146.66054	CONCRETE PAD
1017	390786.78507	1016147.69033	CONCRETE PAD
1018	390790.51294	1016144.42107	CONCRETE PAD
1019	390790.47698	1016136.80470	CONCRETE PAD
1020	390790.31972	1016135.35370	CONCRETE PAD
1021	390788.93034	1016130.17848	CONCRETE PAD
1022	390792.62045	1016108.22214	CONCRETE PAD
1023	390790.56745	1016113.17173	CONCRETE PAD

## GENERAL SHEET NOTES

- ## KEYNOTES

## LEGEND

- UNCHECKED  
WORK-IN-PROGRESS**

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The logo is a circular seal. The outer ring contains the text "SAFETY QUALITY INTEGRITY INNOVATION" at the top and "TECHNICAL SUPPORT SERVICES CONTRACT" at the bottom. Inside the ring, the word "PARSONS" is written in a blue, stylized font. Below "PARSONS" are five white stars. In the center, there is a blue globe with yellow latitude and longitude lines. Overlaid on the globe is a large, orange, 3D-style "T4". A white orbital ring with a small black aircraft icon is positioned around the "T4".

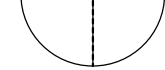
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CONSTRUCTION, OR BIDDING

20' 0' 20' 40'

SCALE: 1" = 20'

NOT FOR CONSTRUCTION





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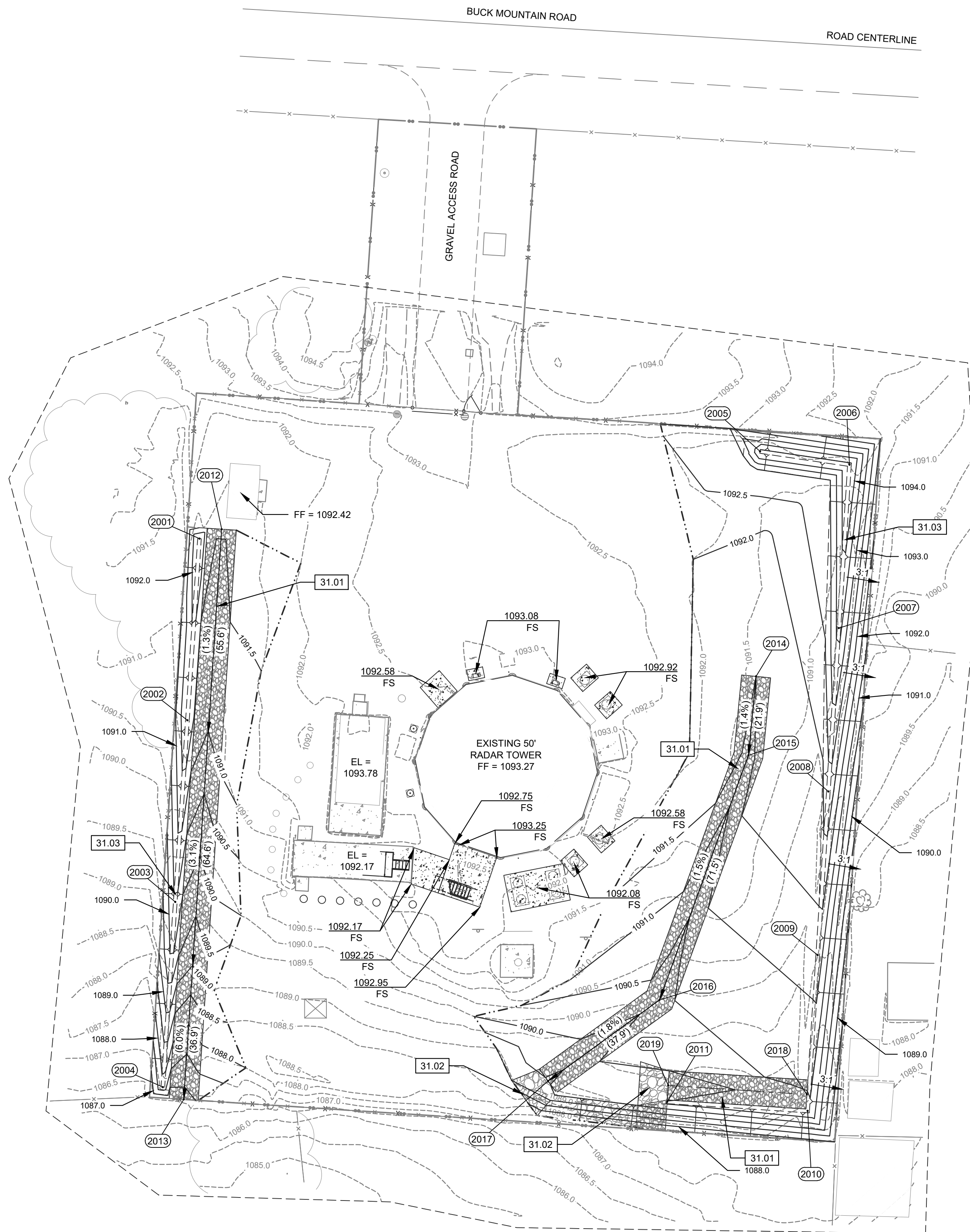
## E

D

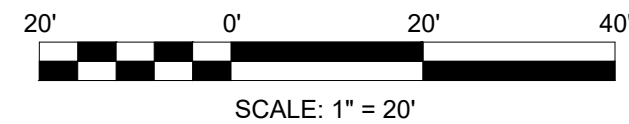
C

B

A



**A6**  
C201



## DRAINAGE

ID	NORTHING	EASTING	ELEVATION	DESC
2001	390828.72502	1016034.79804	1092.50000	TOB
2002	390778.83600	1016031.46853	1091.90000	TOB
2003	390728.94698	1016028.13901	1090.40000	TOB
2004	390678.06018	1016024.74290	1087.75000	TOB
2005	390852.69084	1016188.83554	1094.50000	TOB
2006	390849.06803	1016213.41447	1094.50000	TOB
2007	390804.16809	1016210.51505	1093.60000	TOB
2008	390759.26254	1016207.60104	1092.30000	TOB
2009	390714.35699	1016204.68704	1091.20000	TOB
2010	390671.53818	1016201.90845	1090.40000	TOB
2011	390674.01545	1016163.30779	1090.00000	TOB
2012	390831.31539	1016040.90900	1091.70000	FL
2013	390874.70415	1016030.46995	1086.80000	FL
2014	390790.89391	1016187.75381	1091.50000	FL
2015	390769.20115	1016185.63063	1091.20000	FL
2016	390702.01114	1016161.19405	1090.10000	FL
2017	390679.73999	1016130.56805	1089.40000	FL
2018	390676.06116	1016201.70162	1090.30000	FL
2019	390678.54075	1016163.60182	1089.70000	FL




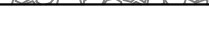








### GENERAL SHEET NOTES

1. FOR ABBREVIATIONS, LEGEND, AND GENERAL NOTES, REFER TO SHEET C001.
2. BACKFILL EXCAVATED AREAS IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00.
3. EXISTING SITE CONDITIONS TO BE VERIFIED DURING CONSTRUCTION.

## KEYNOTES

31.01	CONSTRUCT GRAVEL SWALE PER DETAIL C8/C801.
31.02	CONSTRUCT RIP RAP APRON PER DETAIL E8/C801.
31.03	CONSTRUCT GRAVEL BERM PER DETAIL A8/C801.

## LEGEND

- |   |                                   |
|---|-----------------------------------|
|    | PROPERTY BOUNDARY                 |
|    | PROPOSED CONCRETE PAVEMENT        |
|   | PROPOSED GRAVEL                   |
|  | PROPOSED RIP RAP                  |
|  | EXISTING FENCE                    |
|  | EXISTING EDGE OF ASPHALT PAVEMENT |
|  | SURVEY LIMITS                     |
|  | EXISTING VEGETATION               |
|  | EXISTING CONTOUR                  |
|  | PROPOSED CONTOUR                  |
|  | EXISTING TREE                     |
|  | GRADING DAYLIGHT LINE             |

**UNCHECKED**  
**WORK-IN-PROGRESS**

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PTSI Managed Services Inc.  
955 L'Enfant Plaza SW,  
Ste 6100  
Washington, DC, 20024, USA



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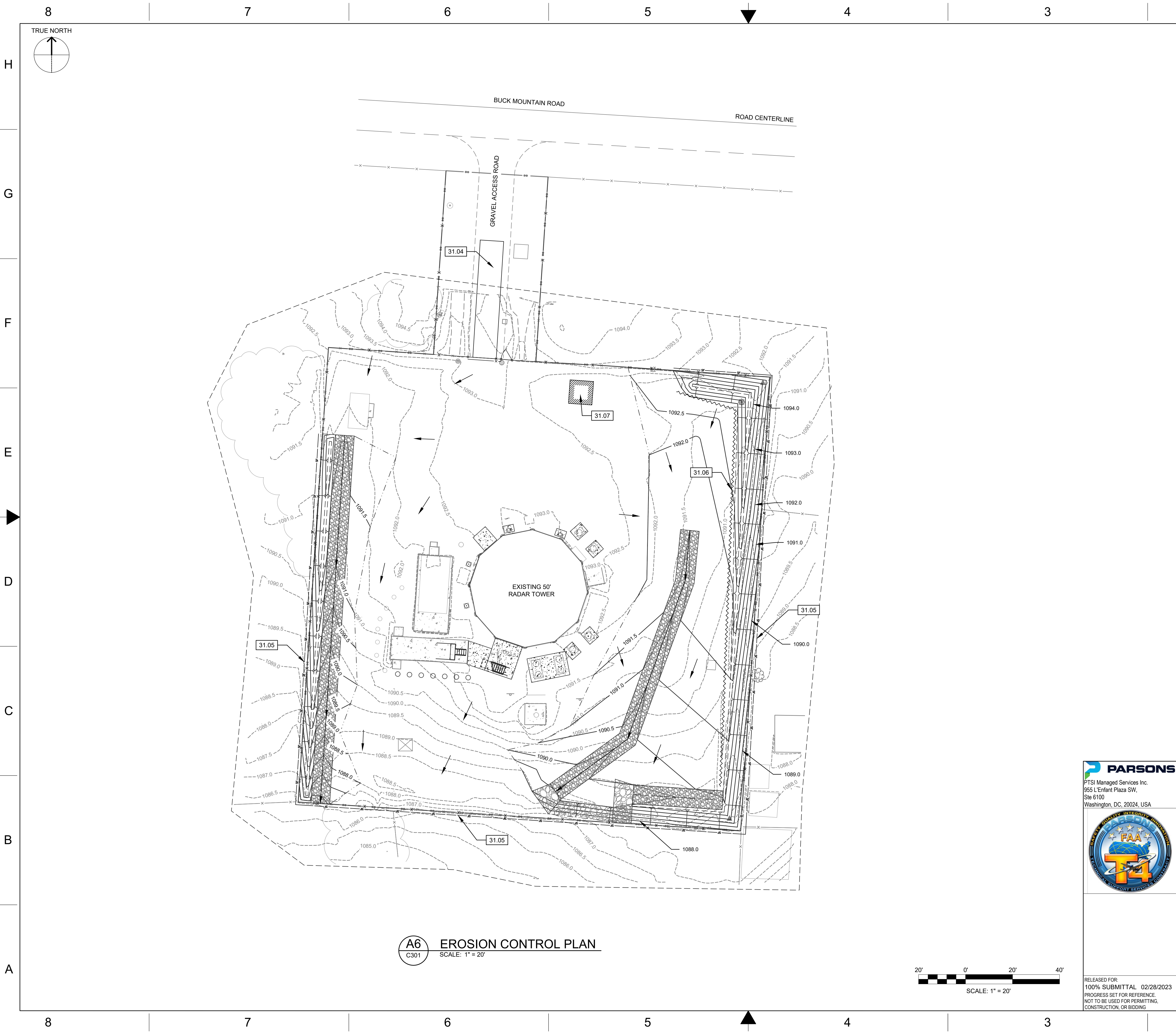
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION									
ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT GRADING PLAN									
RUSSELLVILLE								AR	
REVIEWED BY		SUBMITTED BY				APPROVED BY			
		<i>DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN</i>				<i>DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN</i>			
		PROJECT ENGINEER				MGR: ENGINEERING			
		DESIGNED JC		ISSUED BY		DATE JCN		18060677	
		DRAWN JC		ENGINEERING SERVICES					
		CHECKED EAH				DRAWING NO QXR - 22002872 - C201			
						REV			

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**A**





- GENERAL SHEET NOTES
- FOR ABBREVIATIONS, LEGEND, AND GENERAL NOTES, REFER TO SHEET C001.
  - BACKFILL EXCAVATED AREAS IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00.
  - EXISTING SITE CONDITIONS TO BE VERIFIED DURING CONSTRUCTION.
  - EXISTING FEATURES OUTSIDE OF SURVEY LIMITS WERE LOCATED BY EXISTING SITE INFORMATION.

KEYNOTES

31.04	INSTALL TEMPORARY CONSTRUCTION ENTRANCE PER DETAIL A8/C351.
31.05	INSTALL SILT FENCE PER DETAIL D5/C351.
31.06	INSTALL FIBER ROLL PER DETAIL A5/C351.
31.07	INSTALL CONCRETE WASTE MANAGEMENT AREA PER DETAIL D3/C351.

- LEGEND
- PROPERTY BOUNDARY
  - SURVEY LIMITS
  - FIBER ROLL
  - SILT FENCE
  - EXISTING FENCE
  - EXISTING EDGE OF ASPHALT PAVEMENT
  - PROPOSED GRAVEL
  - PROPOSED RIP RAP
  - PROPOSED CONCRETE PAVEMENT
  - EXISTING VEGETATION
  - EXISTING CONTOUR
  - PROPOSED CONTOUR
  - EXISTING TREE
  - GRADING DAYLIGHT LINE

ACREAGE SUMMARY

DISTURBED AREA	0.40 ACRES
TOTAL AREA	0.92 ACRES

UNCHECKED  
WORK-IN-PROGRESS

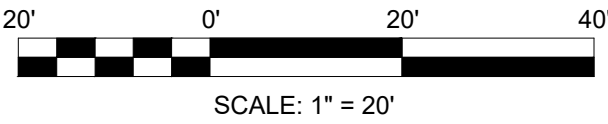
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REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS <span style="float:right">CENTRAL SERVICE AREA</span>									
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT EROSION CONTROL PLAN									
RUSSELLVILLE <span style="float:right">AR</span>									
REVIEWED BY		SUBMITTED BY				APPROVED BY			
		<div>DO NOT SIGN</div>				<div>DO NOT SIGN</div>			
		<div>DO NOT SIGN</div>				<div>DO NOT SIGN</div>			
		<div>DO NOT SIGN</div>				<div>DO NOT SIGN</div>			
		<div>DO NOT SIGN</div>				<div>DO NOT SIGN</div>			
		PROJECT ENGINEER				MGR: ENGINEERING			
		DESIGNED JC		ISSUED BY		DATE		JCN	18060677
		DRAWN JC		ENGINEERING SERVICES		REV			
		CHECKED EAH				DRAWING NO			
						QXR - 22002872 - C301			



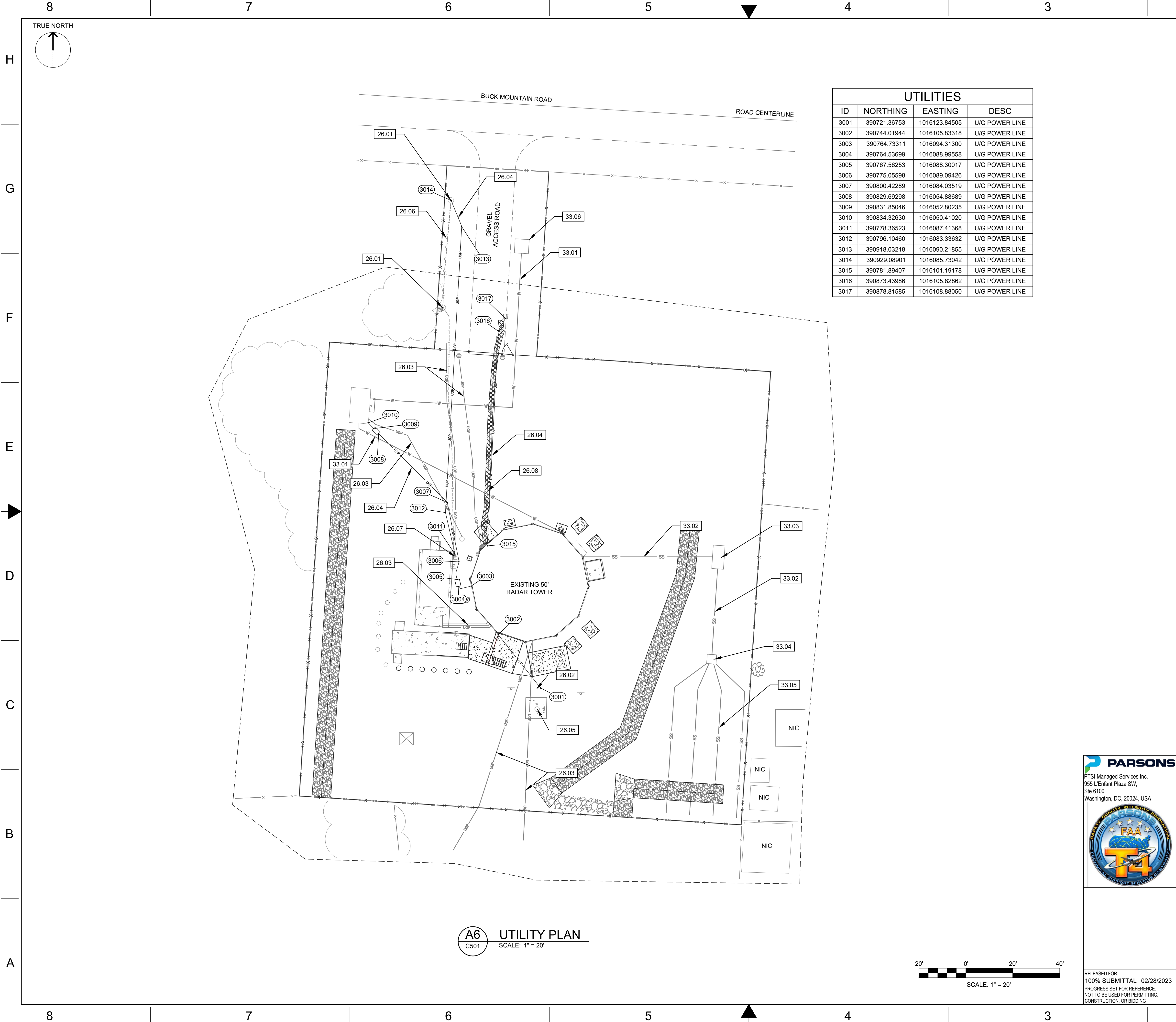
SCALE: 1" = 20'

NOT FOR CONSTRUCTION









GENERAL SHEET NOTES

- FOR ADDITIONAL ABBREVIATIONS, LEGEND, AND GENERAL NOTES, REFER TO SHEET C001.
- BACKFILL EXCAVATED AREAS IN ACCORDANCE WITH SPECIFICATION SECTION 31 20 00.
- EXISTING SITE CONDITIONS TO BE VERIFIED DURING CONSTRUCTION.
- REFER TO ELECTRICAL DRAWINGS FOR PLACEMENT OF NEW ELECTRICAL UTILITIES.

KEYNOTES

26.01	PROTECT IN PLACE EXISTING POWER POLE.
26.02	PROTECT IN PLACE EXISTING POWER PANEL.
26.03	PROTECT IN PLACE EXISTING U/G ELECTRICAL LINE.
26.04	INSTALL NEW ELECTRICAL LINE. REFER TO ELECTRICAL DRAWINGS.
26.05	PROTECT IN PLACE EXISTING RADAR ANTENNA.
26.06	PROTECT IN PLACE EXISTING TELEPHONE LINE.
26.07	PROTECT IN PLACE EXISTING ELECTRICAL UTILITY METER.
26.08	DEMOLISH EXISTING U/G POWER LINE.
33.01	PROTECT IN PLACE EXISTING U/G WATER LINE.
33.02	PROTECT IN PLACE EXISTING U/G DUCTILE IRON SEWER LINE.
33.03	PROTECT IN PLACE EXISTING U/G SEPTIC TANK. INSPECT, PUMP, AND SERVICE SEPTIC TANK.
33.04	PROTECT IN PLACE EXISTING U/G SEWER DISTRIBUTION BOX.
33.05	PROTECT IN PLACE EXISTING U/G LEACH FIELD.
33.06	PROTECT IN PLACE EXISTING WATER WELL.

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONCRETE SLAB
- EXISTING FENCE
- EXISTING EDGE OF PAVEMENT
- PROPOSED U/G POWER
- EXISTING U/G POWER
- EXISTING U/G SANITARY SEWER
- EXISTING U/G WATER
- EXISTING TELEPHONE
- SURVEY LIMITS
- EXISTING VEGETATION
- EXISTING TREE
- DEMOLISH UTILITY
- PROPOSED GRAVEL
- PROPOSED RIP RAP

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							
ATO - TECHNICAL OPERATIONS				CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT UTILITY PLAN							
RUSSELLVILLE							
REVIEWED BY		SUBMITTED BY			APPROVED BY		
		DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN			DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN		
		PROJECT ENGINEER			MGR: ENGINEERING		
		DESIGNED JC	ISSUED BY JC		DATE	JCN	18060677
		DRAWN JC	ENGINEERING SERVICES		DRAWING NO		REV
		CHECKED EAH			QXR - 22002872 - C501		



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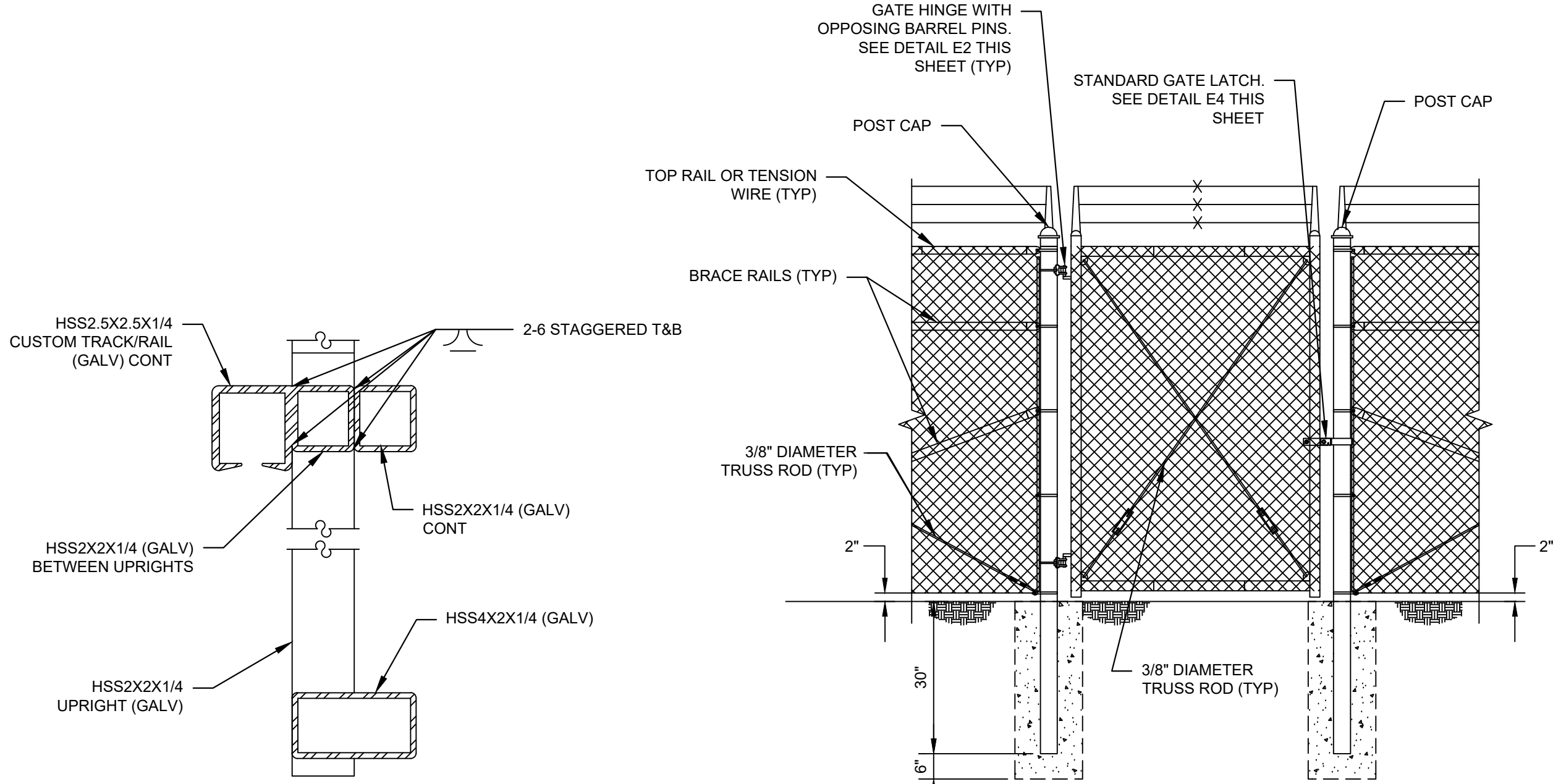
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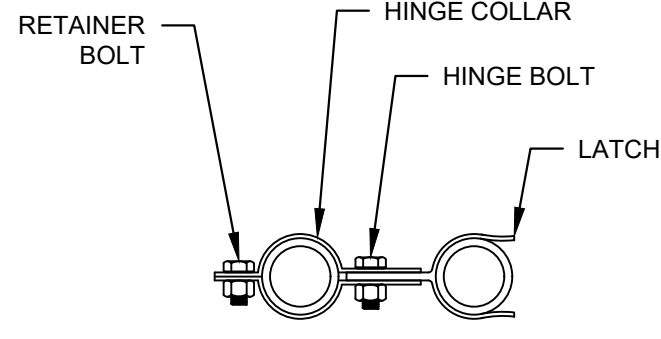
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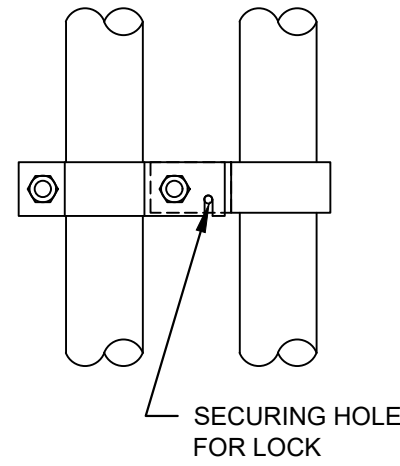


**E8** VEHICLE ACCESS GATE SECTION DETAIL  
C701 SCALE: NOT TO SCALE

**E6** PEDESTRIAN GATE DETAIL  
C701 SCALE: NOT TO SCALE

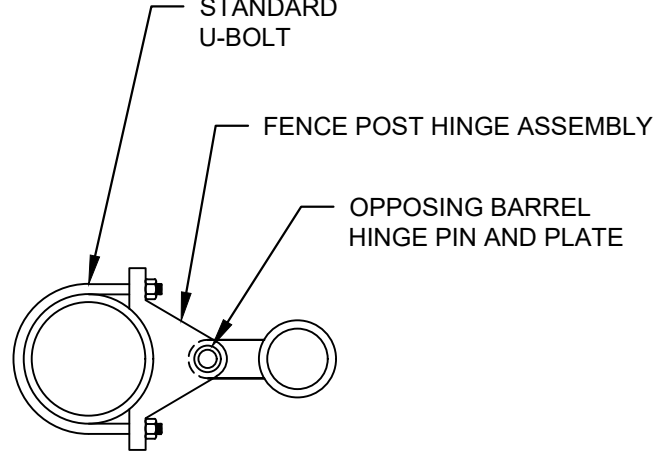


PLAN VIEW

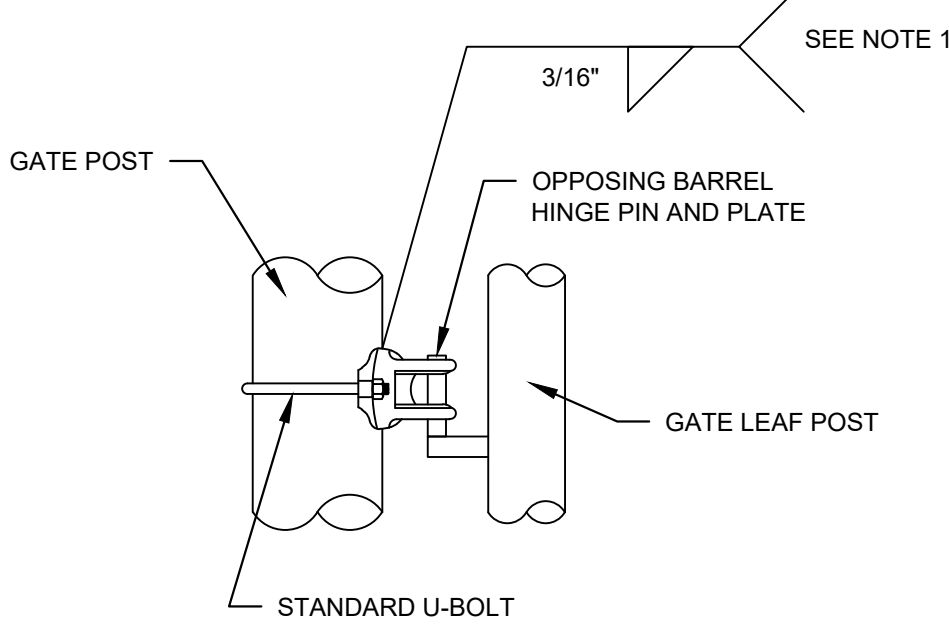


ELEVATION VIEW

**E4** GATE LATCH DETAIL  
C701 SCALE: NOT TO SCALE



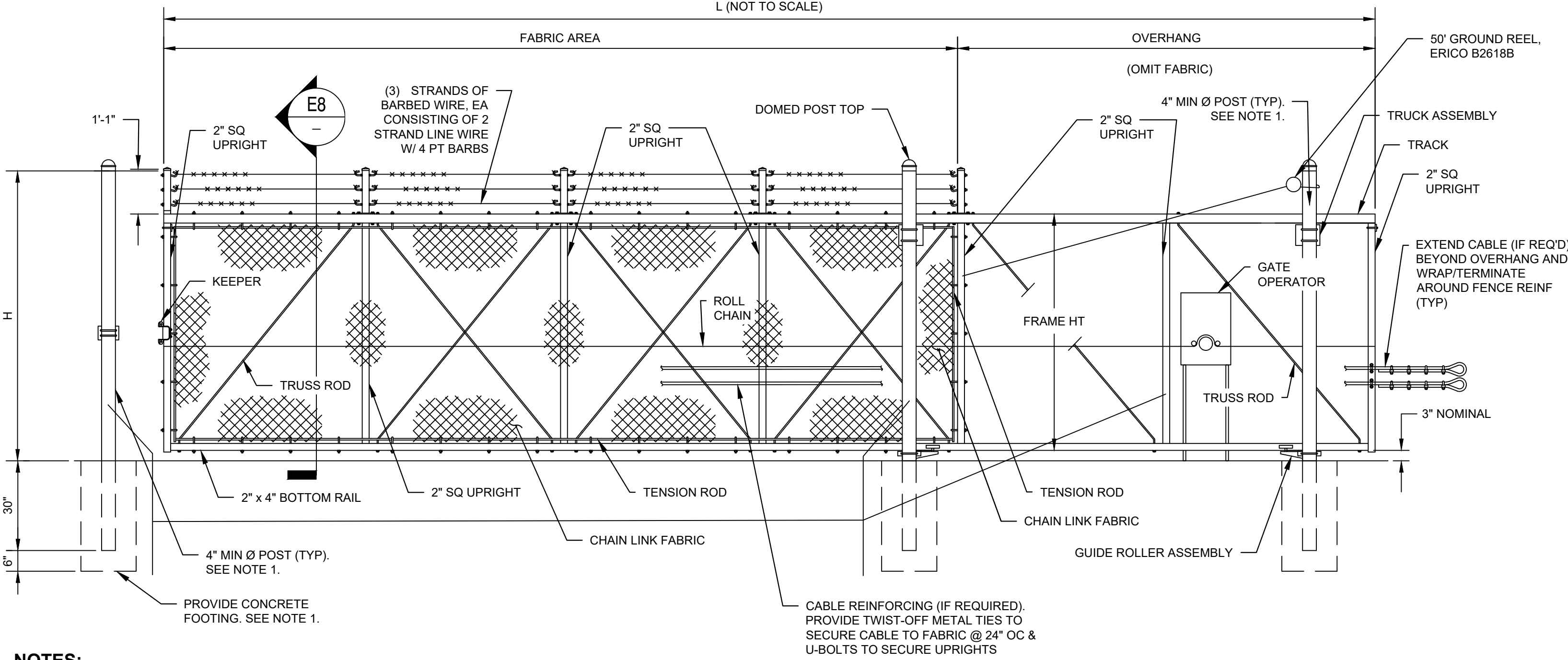
PLAN VIEW



ELEVATION VIEW

**NOTE:**  
1. WELD HINGES TO POST IF INSTALLING CABLE REINFORCEMENT ON GATES. ENSURE CORRECT HEIGHT FOR FULL OPERATION PRIOR TO WELDING, TYPICAL.

**E2** GATE HINGE DETAIL  
C701 SCALE: NOT TO SCALE





**A8** SLIDING CANTILEVERED VEHICLE ACCESS GATE DETAIL  
C701 SCALE: NOT TO SCALE

- NOTES:**
1. POST SIZE AND ASSOCIATED FOOTING DIAMETER TO BE DETERMINED BY MANUFACTURER, BASED ON LEAF WEIGHT & DIMENSION. MINIMUM FOOTING DIAMETERS (TO BE FILLED W/4000 PSI CONC): 40\"/>

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		DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ATO - TECHNICAL OPERATIONS		CENTRAL SERVICE AREA				
		ARSR LONG RANGE RADAR SUSTAINMENT PROJECT FENCING AND GATE DETAILS		RUSSELLVILLE		AR				
		DESIGNED JC		ISSUED BY JC		MGR: ENGINEERING		DATE		
		DRAWN JC		ENGINEERING SERVICES		DRAWING NO		JCN		
		CHECKED EAH				QXR - 22002872 - C701		REV		
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### PLAN VIEW

SECTION A - A

# E8 RIP RAP APRON DETAIL

**C8** GRAVEL SWALE DETAIL  
C801 SCALE: NOT TO SCALE

**A8** GRAVEL BERM DETAIL  
C801 SCALE: NOT TO SCALE

SLAB PAVMENT SECTION

## EXPANSION JOINT

## E5 CONCRETE SLAB DETAIL

T=PAVEMENT THICKNESS

**E3 THICKENED EDGE JOINT AT STRUCTURE**  
C801 SCALE: NOT TO SCALE

NOTES:

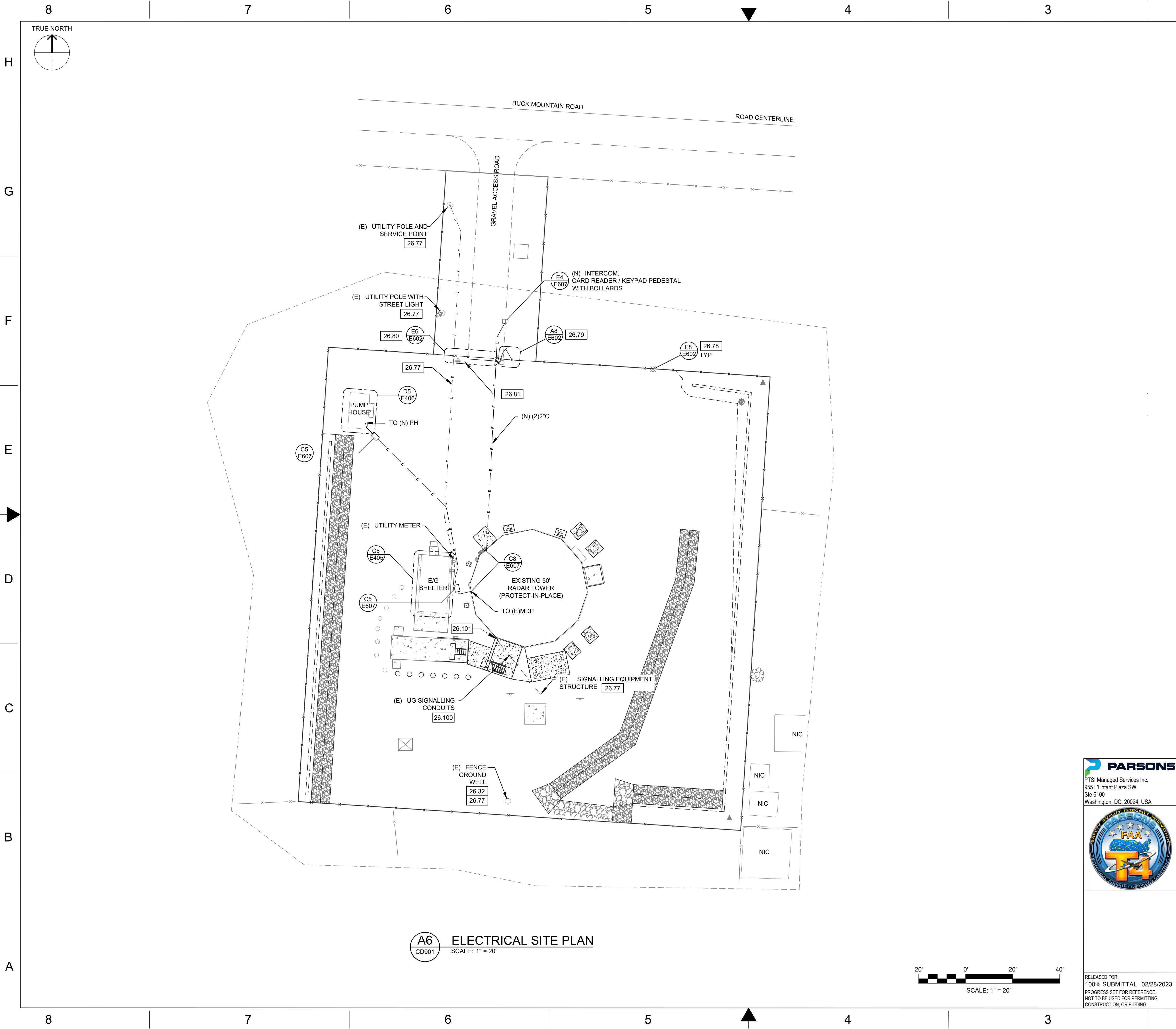
1. ALL NEW BOLLARDS SHALL HAVE A 52" YELLOW PLASTIC BOLLARD COVER OR PAINTED YELLOW TO COMPLY WITH OSHA STANDARDS.
2. BOLLARDS SHALL BE INSTALLED AT 6'-0" O.C. MAX.

**A5** **BOLLARD DETAIL**  
C801 SCALE: NOT TO SCALE

 <p>PTSI Managed Services Inc. 965 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA</p>	REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
	<p align="center"><b>DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</b></p> <p align="center">ATO - TECHNICAL OPERATIONS <span style="float: right;">CENTRAL SERVICE AREA</span></p>					
	<p align="center"><b>ARSR LONG RANGE RADAR SUSTAINMENT PROJECT SITE DETAILS</b></p>					
	<p align="center"><b>RUSSELLVILLE <span style="float: right;">AR</span></b></p>					
	<p><b>REVIEWED BY</b></p>	<p><b>SUBMITTED BY</b></p> <p align="center">DO NOT SIGN    DO NOT SIGN    DO NOT SIGN    DO NOT SIGN</p>			<p><b>APPROVED BY</b></p> <p align="center">DO NOT SIGN    DO NOT SIGN    DO NOT SIGN    DO NOT SIGN</p>	
<p>RELEASED FOR: <b>100% SUBMITTAL 02/28/2023</b>  PROGRESS SET FOR REFERENCE. NOT TO BE USED FOR PERMITTING, CONSTRUCTION, OR BIDDING</p>		<p><b>PROJECT ENGINEER</b></p> <p>DRAWN <span style="float: right;">JC</span></p> <p>CHECKED <span style="float: right;">EAH</span></p>	<p>ISSUED BY</p> <p align="center"><b>ENGINEERING SERVICES</b></p>	<p><b>MGR: ENGINEERING</b></p> <p>DATE <span style="float: right;">JCN</span></p>	<p align="right">18060677</p>	REV
<p align="center"><b>DRAWING NO    QXR - 22002872 - C801</b></p>						

NOT FOR CONSTRUCTION





GENERAL SHEET NOTES

1. SEE DRAWING E001 FOR DEMOLITION NOTES.

2. SEE DRAWING E001 FOR LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS.

3. REFER TO CIVIL DRAWINGS FOR ALL NEW FENCING COMPONENTS AND RESPECTIVE LOCATIONS (I.E. VEHICLE GATE, FENCE FABRIC AND BARBED WIRE).

KEYNOTES

26.32PROTECT IN PLACE (E) EQUIPMENT.

26.77(E) TO REMAIN, SHOWN FOR REFERENCE ONLY.

26.78PROVIDE (N) GROUNDING AND BONDING CONNECTIONS FOR (N) FENCE FABRIC AND BARBED WIRE AT EACH AND ALL (E) FENCE POSTS.

26.79PROVIDE (N) GROUNDING AND BONDING CONNECTIONS FOR (N) FENCE FABRIC AND BARBED WIRE AT (E) PEDESTRIAN GATE.

26.80PROVIDE (N) GROUNDING AND BONDING CONNECTIONS FOR (N) FENCE FABRIC AND BARBED WIRE AT (N) VEHICLE GATE.

26.81PROVIDE NEW GATE OPERATOR. REPLACE (E) 208V FEEDER CONDUCTORS, CIRCUIT EP-1/19.21.

26.100(E) SIGNALING EQUIPMENT. (E) UG CONDUIT(S). RELOCATE AS REQUIRED TO ACCOMMODATE (N) EXTERIOR STAIRWAY.

26.101(E) SIGNALING EQUIPMENT. (E) EXTERIOR, BUILDING-MOUNTED BACK BOX AND RISER CONDUIT. RELOCATE AS REQUIRED TO ACCOMMODATE (N) EXTERIOR STAIRWAY.

LEGEND

— E —

EXISTING ELECTRICAL UNDERGROUND CONDUIT

— E —

NEW ELECTRICAL UNDERGROUND CONDUIT

REFERENCE DRAWINGS

C701: "FENCING AND GATE DETAILS"

E602: "DETAILS - GROUNDING - FENCE"

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FAA

SECURITY, SAFETY, INTEGRITY, SERVICE

REV

APPROVED  
DATE

DESCRIPTION

JCN

REDLINE  
DATE

APVD

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

ATO - TECHNICAL OPERATIONS

CENTRAL SERVICE AREA

ARSR  
LONG RANGE RADAR SUSTAINMENT PROJECT  
ELECTRICAL SITE PLAN

RUSSELLVILLE

AR

REVIEWED BY

SUBMITTED BY

APPROVED BY

PROJECT ENGINEER

MGR: ENGINEERING

DESIGNED JC

ISSUED BY JC

DATE

JCN

18060677

DRAWN JC

ENGINEERING SERVICES

DRAWING NO

QXR - 22002872 - C901

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## ABBREVIATIONS-ARCHITECTURE

A LABEL	-A- CLASS A DOOR	D	-D- DEPTH	JAN	-J- JANITOR
A/C	AIR CONDITIONING	D LABEL	CLASS D DOOR	JC	JANITOR CLOSET
A/C UNIT	AIR CONDITIONING UNIT	DBL	DOUBLE		
A/E	ARCHITECT/ENGINEER	DEMO	DEMOLITION		-K- KITCHEN
AB	ANCHOR BOLT	DEPT	DEPARTMENT	KIT	
ABA	ARCHITECTURAL BARRIERS ACT	DET	DETAIL	KPD	KEYPAD
ACC	ACCESSIBLE	DIA	DIAMETER	KPL	KICKPLATE
ACP	ACOUSTICAL CEILING PANEL	DIM	DIMENSION		
ACS DR	ACCESS DOOR	DIR	DIRECTION		-L- LAMINATE
ACS PNL	ACCESS PANEL	DIST	DISTANCE	LAM	
ADA	AMERICANS WITH DISABILITIES ACT	DN	DOWN	LAV	LAVATORY
ADMIN	ADMINISTRATION	DOC	DOCUMENT	LBR	LUMBER
AFC	ABOVE FINISHED COUNTER	DR	DOOR	LBS	POUND
AFF	ABOVE FINISHED FLOOR	DS	DOWNSPOUT	LDG	LANDING
AFG	ABOVE FINISHED GRADE	DWG(S)	DRAWING(S)	LF	LINEAR FEET (FOOT)
AFS	ABOVE FINISHED SLAB			LIB	LIBRARY
AGGR	AGGREGATE		-E- CLASS E DOOR	LIN	LINEAR
AHU	AIR HANDLING UNIT	E LABEL		LKR	LOCKER
AIB	AIR INFILTRATION BARRIER	EA	EACH	LT	LIGHT
ALT	ALTERNATE	EF	EACH FACE	LVDR	LOUVER DOOR
ALUM	ALUMINUM	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	LVR	LOUVER
ANOD	ANODIZE	EJ	EXPANSION JOINT		
APPD	APPROVED	EL	ELEVATION		-M- MACHINE ROOM
APPROX	APPROXIMATE	ELEV	ELEVATOR	MACH RM	
AR	AS REQUIRED	ENTR	ENTRANCE	MATL	MATERIAL
ARCH	ARCHITECT	EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)	MAX	MAXIMUM
ASC	ABOVE SUSPENDED CEILING			MB	MOISTURE BARRIER
ASSY	ASSEMBLY	EQ	EQUAL	MC	MOISTURE CONTENT
ATC	ACOUSTICAL TILE CEILING	ES	EACH SIDE	MD	METAL DECK
AVG	AVERAGE	EW	ELECTRIC WATER COOLER	MECH	MECHANICAL
AW	ARCHITECTURAL WOODWORK	EXP	EXPOSED	MECH RM	MECHANICAL ROOM
AWT	ACOUSTICAL WALL TREATMENT	EXT	EXTERIOR	MEMB	MEMBRANE
		EXT GR	EXTERIOR GRADE	MF	MILL FINISH
	-B- CLASS B DOOR		-F- FIRE ALARM	MFR	MANUFACTURER
B LABEL				MID	MIDDLE
BALC	BALCONY	FA	FIRE ALARM	MIL STD	MILITARY STANDARD
BB	BASEBOARD	FAA	FEDERAL AVIATION ADMINISTRATION	MIN	MINIMUM, MINUTE
BC	BOOKCASE	FAAP	FIRE ALARM ANNUNCIATOR PANEL	MIRR	MIRROR
BD	BOARD	FAS BD	FASCIA BOARD	MISC	MISCELLANEOUS
BDRY	BOUNDARY	FC BRK	FACE BRICK	MLDG	MOLDING (MOULDING)
BFF	BELOW FINISH FLOOR	FCO	FLOOR CLEANOUT	MO	MASONRY OPENING
BHMA	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION	FD	FLOOR DRAIN	MOD	MODIFY
BLDG	BUILDING	FDTN	FOUNDATION	MTG	MOUNTING
BLKG	BLOCKING	FE	FIRE EXTINGUISHER	MTL	METAL
BLT IN	BUILT-IN	FEC	FIRE EXTINGUISHER CABINET	MVBL	MOVABLE
BN	BULLNOSE	FED	FEDERAL	MWP	MEMBRANE WATERPROOFING
BOS	BOTTOM OF STEEL	FF	FINISH FACE		
BOT	BOTTOM	FF EL	FINISH FLOOR ELEVATION		-N- NORTH
BP	BUILDING PAPER	FF INSUL	FOIL FACED INSULATION	N	
BRKT	BRACKET	FGL	FIBERGLASS	NA	NOT APPLICABLE
BSMT	BASEMENT	FH	FIRE HOSE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BTWN	BETWEEN	FHP	FULL HEIGHT PARTITION	NG	NATURAL GRADE
BUR	BUILT-UP ROOFING	FIN	FINISH	NIC	NOT IN CONTRACT
		FIN BS	FINISH BOTH SIDES	NIC	NOISE ISOLATION CLASS
		FIN FLR	FINISH FLOOR	NO	NUMBER
		FIN GR	FINISH GRADE	NOM	NOMINAL
C CONC	-C- CAST CONCRETE	FIXT	FIXTURE	NP	NO PAINT
C LABEL	CLASS C DOOR	FLDG	FOLDING	NRC	NOISE REDUCTION
CAB	CABINET	FLEX	FLEXIBLE	NTS	NOT TO SCALE
CATW	CATWALK	FLG	FLOORING		
CAV	CAVITY	FLMT	FLUSH MOUNT		-O- OVERALL
CBB	CEMENTITIOUS (BACKER) BOARD	FLR	FLOOR	OA	
CD	CONSTRUCTION DOCUMENTS	FM	FACTORY MUTUAL	OC	ON CENTER
CDR	CARD READER	FOC	FACE OF CONCRETE	OD	OUTSIDE DIAMETER
CDW	CHILLED DRINKING WATER	FOM	FACE OF MASONRY	OFD	OVERFLOW DRAIN
CEM PLAS	CEMENT PLASTER	FR	FIRE RESISTANT	OFF	OFFICE
CER	CERAMIC	FRG	FIBER REINFORCED GYPSUM	OGL	OBSCURE GLASS
CF	CONTRACTOR FURNISHED	FRMG	FRAMING	OPH	OPPOSITE HAND
CFCI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	FRP	FIBERGLASS REINFORCED PLASTIC	OPNG	OPENING
		FRTW	FIRE RETARDANT TREATED WOOD	OPP	OPPOSITE
CFLG	COUNTERFLASHING	FS	FEDERAL SPECIFICATION	OPQ	OPPOSITE
CFM	CUBIC FEET PER MINUTE	FTSNR	FASTENER	OPR	OPERABLE
CFMF	COLD-FORMED METAL FRAMING	FT	FEET	ORD	OVERFLOW ROOF DRAIN
CFS	CUBIC FEET PER SECOND	FTG	FOOTING	ORIG	ORIGINAL
CG	CORNER GUARD	FWC	FABRIC WALLCOVERING	OWSJ	OPEN WEB STEEL JOIST
CI	CAST IRON				
CIP	CAST-IN-PLACE		-G- NATURAL GAS	PA	PUBLIC ADDRESS
CJ	CONTROL JOINT	G		PAR	PARAPET
CL	CENTER LINE	GA	GAUGE	PAT	PATTERN
CLG	CEILING	GALV	GALVANIZED	PB	PULL BOX
CLG ACS DR	CEILING ACCESS DOOR	GB	GRAB BAR	PBD	PARTICLEBOARD
CLG DIFF	CEILING DIFFUSER	GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	PCC	PRECAST CONCRETE
CLG HT	CEILING HEIGHT			PCF	POUNDS PER CUBIC FOOT
CLL	COLUMN LINE	GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	PCT	PERCENT
CLO	CLOSET			PERF	PERFORATED
CLR	CLASSROOM	GFRG	GLASS-FIBER-REINFORCED GYPSUM	PERIM	PERIMETER
CLRM	CLASSROOM	GLZ	GLAZING	PH	PHASE
CMU	CONCRETE MASONRY UNIT	GR FL	GROUND FLOOR	PIL	PILASTER
CNDS	CONDENSATE	GUT	GUTTER	PL	PROPERTY LINE
CO	CLEANOUT	GYP BD	GYPSUM BOARD	PL GL	PLATE GLASS
COL	COLUMN	GYP PLAS	GYPSUM PLASTER	PLAM	PLASTIC LAMINATE
COMM	COMMUNICATION			PLAS	PLASTER
CONC	CONCRETE		-H- HOSE BIBB	PLBG	PLUMBING
CONC FLR	CONCRETE FLOOR	HB		PLG	PILING
CONF	CONFERENCE	HDPE	HIGH DENSITY POLYETHYLENE	PLYW D	PLYWOOD
CONT	CONTINUE	HDW	HARDWARE	PNL	PANEL
COORD	COORDINATE	HDWD	HARDWOOD	PP PL	PUSH/PULL PLATE
COR	CONTRACTING OFFICER REPRESENTATIVE	HEPA	HIGH EFFICIENCY PARTICULATE AIR (FILTER)	PR	PAIR
CORR	CORRIDOR	HM	HOLLOW METAL	PRCST	PRECAST
CP	CONCRETE PIPE	HMD	HOLLOW METAL DOOR	PRKG	PARKING
CPT	CARPET	HORIZ	HORIZONTAL	PS CONC	PRESTRESSED CONCRETE
CR	CONTROL ROOM	HT	HEIGHT	PSF	POUNDS PER SQUARE FOOT
CS	CAST STONE	HVLS	HIGH VOLUME LOW SPEED	PSI	POUNDS PER SQUARE INCH
CSWK	CASEWORK	HYDR	HYDRAULIC	PT	PAINT
CT	CERAMIC TILE			PTD	PAPER TOWEL DISPENSER
CTB	CERAMIC TILE BASE		-I- INTERNATIONAL BUILDING CODE	PTDR	PAPER TOWEL DISPENSER AND RECEPTACLE
CTF	CERAMIC TILE FLOOR	IBC		PTN	PARTITION
CU FT	CUBIC FEET	IGU	INSULATED GLAZED UNIT	PVC	POLYVINYL CHLORIDE
CW	CASEMENT WINDOW	ILO	IN LIEU OF	PWR	POWER
		IMP	INSULATED METAL PANEL		
		INSUL	INSULATION		
		INT	INTERIOR		

## LEGENDS & SYMBOLS

**0** ——— COLUMN / GRID LINE

**DETAIL CALLOUT**

**A1** ——— DETAIL NUMBER

**A102** ——— SHEET ON WHICH DETAIL IS SHOWN

**INTERIOR ELEVATION**

**A1** ——— SHEET NUMBER WHERE ELEVATION IS SHOWN

**A101** ——— ELEVATION NUMBER

**EXTERIOR ELEVATION**

**A1** ——— ELEVATION NUMBER

**A102** ——— SHEET NUMBER WHERE ELEVATION IS SHOWN

**SECTION CALLOUT**

**A1** ——— SECTION NUMBER

**A102** ——— SHEET WHERE SECTION IS SHOWN

**NORTH ARROW**

**PLAN NORTH**

**TRUE NORTH**

**TA00** ——— TOILET ACCESSORIES & EQUIPMENT

**ROOM NAME**

**101** ——— ROOM NAME / ROOM NUMBER

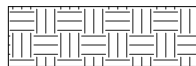
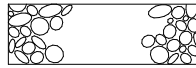






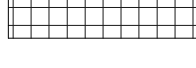


**XX** ——— WALL TYPE

**###** ——— DOOR MARKER

**XX** ——— WINDOW MARKER

**XX.XX** ——— KEYNOTES

## MATERIAL SYMBOLS

COMPACTED EARTH		(SECTION)
ROCK FILL		(SECTION)
CONCRETE		(SECTION)
BRICK/CMU		(PLAN)
GYPSUM BD		(SECTION)
CEMENTIOUS BACKER BOARD		(SECTION)
STEEL OR ALUMINUM		(SECTION)
INSULATION BATT		(SECTION)
RIGID INSULATION		(SECTION)
ACOUSTICAL PANEL CEILING		(RCP)
GYPSUM BOARD CEILING		(RCP)

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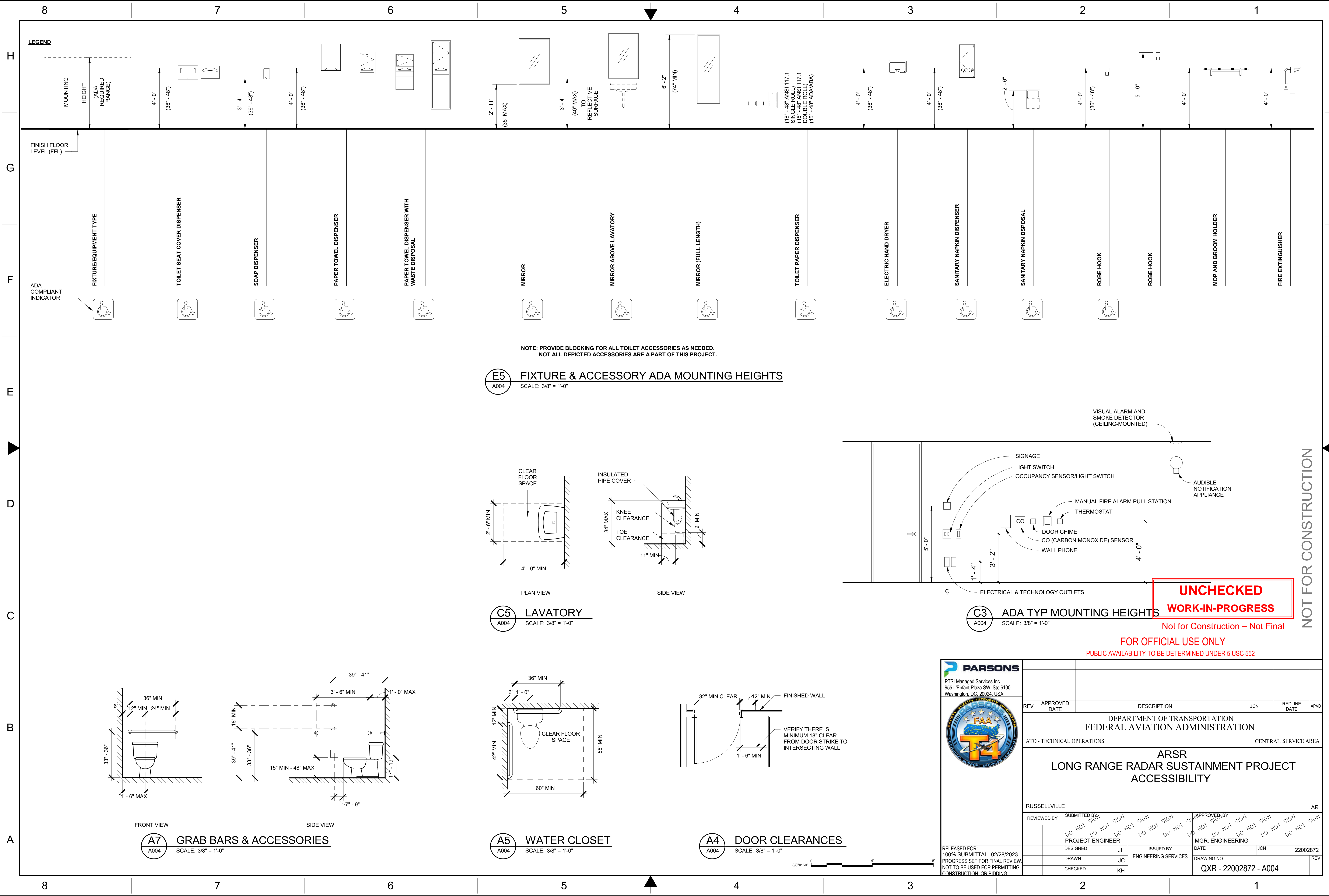
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LEGEND	
MOUNTING HEIGHT (ADA REQUIRED RANGE)	
FINISH FLOOR LEVEL (FFL)	
ADA COMPLIANT INDICATOR	
FIXTURE/EQUIPMENT TYPE	
TOILET SEAT COVER DISPENSER	
SOAP DISPENSER	
PAPER TOWEL DISPENSER	
PAPER TOWEL DISPENSER WITH WASTE DISPOSAL	
MIRROR	
MIRROR ABOVE LAVATORY	
MIRROR (FULL LENGTH)	
TOILET PAPER DISPENSER	
ELECTRIC HAND DRYER	
SANITARY NAPKIN DISPENSER	
SANITARY NAPKIN DISPOSAL	
ROBE HOOK	
MOP AND BROOM HOLDER	
FIRE EXTINGUISHER	

NOTE: PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES AS NEEDED. NOT ALL DEPICTED ACCESSORIES ARE A PART OF THIS PROJECT.

**E5** **FIXTURE & ACCESSORY ADA MOUNTING HEIGHTS**  
A004 SCALE: 3/8" = 1'-0"

**C5** **LAVATORY**  
A004 SCALE: 3/8" = 1'-0"

**A5** **WATER CLOSET**  
A004 SCALE: 3/8" = 1'-0"

**A4** **DOOR CLEARANCES**  
A004 SCALE: 3/8" = 1'-0"

**A7** **GRAB BARS & ACCESSORIES**  
A004 SCALE: 3/8" = 1'-0"

**C3** **ADA TYP MOUNTING HEIGHTS**  
A004 SCALE: 3/8" = 1'-0"

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**PARSONS**

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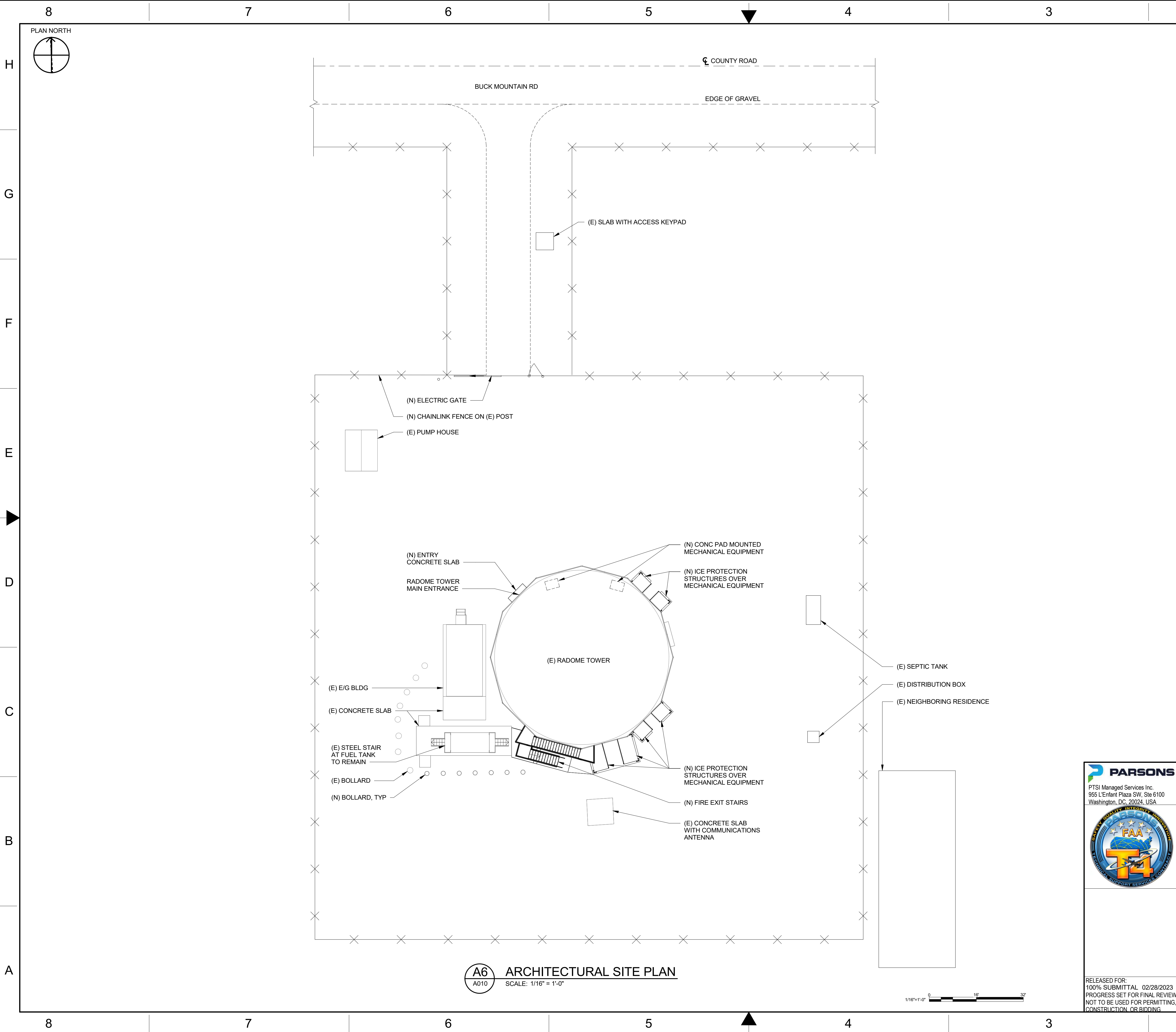
**FAA**

FAA  
T4  
TECHNICAL SUPPORT SERVICE CENTER

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
ATO - TECHNICAL OPERATIONS					
CENTRAL SERVICE AREA					
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT ACCESSIBILITY					
RUSSELLVILLE					
AR					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
	DO NOT SIGN	DO NOT SIGN			
PROJECT ENGINEER		MGR: ENGINEERING			
DESIGNED	JH	ISSUED BY	JCN	22002872	
DRAWN	JC	ENGINEERING SERVICES	DRAWING NO		
CHECKED	KH				
QXR - 22002872 - A004					





## GENERAL NOTES

1. SEE CIVIL FOR MORE DETAILED INFORMATION

## LEGEND

—X—X— (N) CHAINLINK FENCE ON (E) POST

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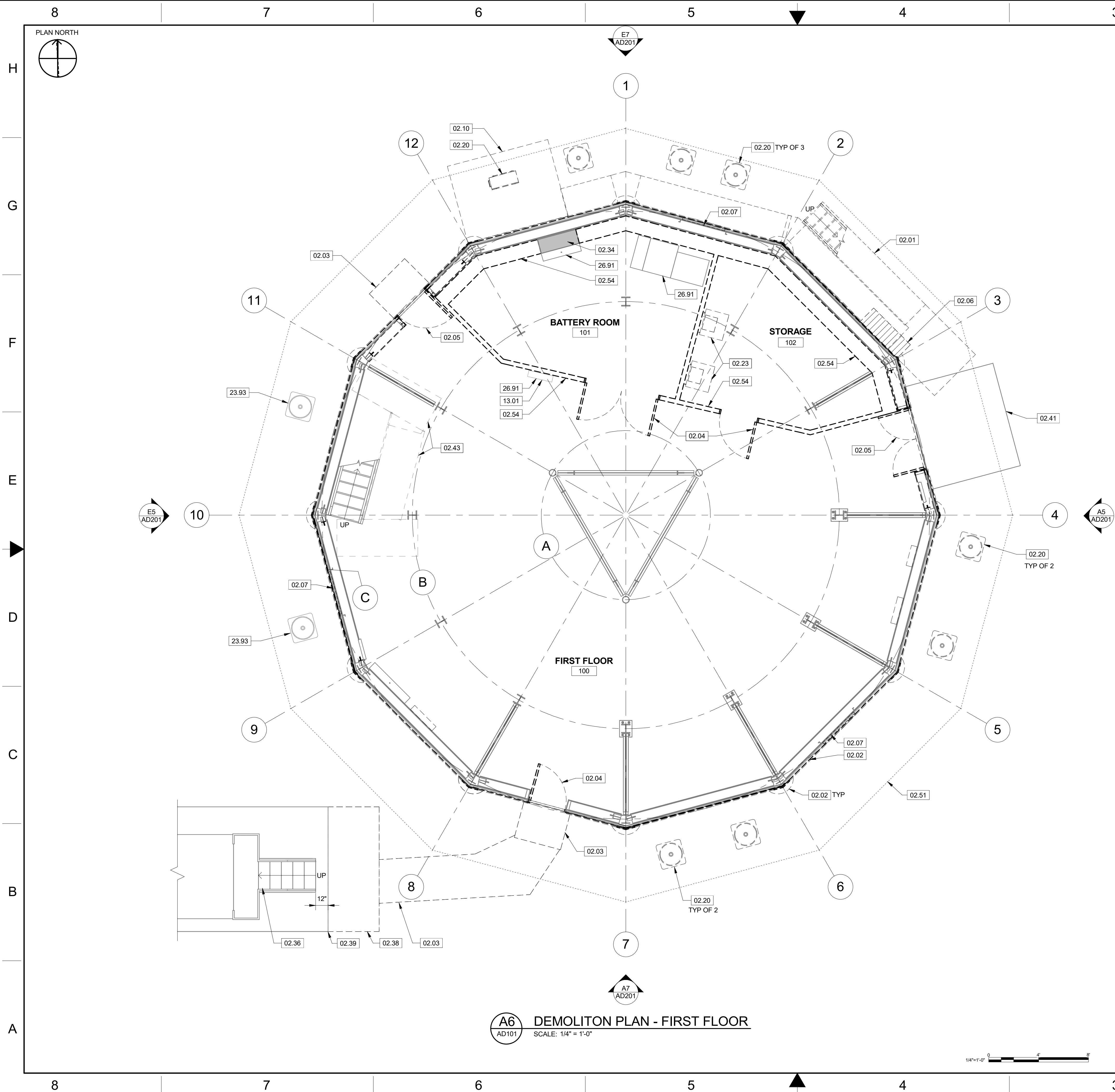
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REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
ATO - TECHNICAL OPERATIONS			CENTRAL SERVICE AREA		
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT ARCHITECTURAL SITE PLAN					
RUSSELLVILLE					AR
REVIEWED BY		SUBMITTED BY		APPROVED BY	
PROJECT ENGINEER		MGR: ENGINEERING		DATE	
DESIGNED	JH	ISSUED BY	JCN	22002872	
DRAWN	JC	ENGINEERING SERVICES	DRAWING NO	REV	
CHECKED	KH	QXR - 22002872 - A010			

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## GENERAL NOTES

1. FULLY STRIP EXTERIOR ALUMINUM SIDING FROM RADOME TOWER.
2. PROVIDE TEMPORARY FALL PROTECTION FOR OPENINGS.

## KEYNOTES

02.01	DEMOLISH (E) EXTERIOR STAIR AND FOOTING
02.02	DEMOLISH (E) EXTERIOR ALUMINUM SIDING; (E) STEEL SIDING UNDER ALUMINUM SIDING TO REMAIN
02.03	DEMOLISH (E) CONCRETE SLAB
02.04	DEMOLISH (E) DOOR AND FRAME
02.05	DEMOLISH (E) DOOR AND FRAME - MODIFY FRAMING TO ENLARGE OPENING FOR NEW DOOR
02.06	DEMOLISH (E) EXTERIOR PLUMBING SHED
02.07	DEMOLISH (E) WINDOW AND FRAME ABOVE; SEE ELEVATIONS
02.10	DEMOLISH (E) EXTERIOR LANDING
02.20	DEMOLISH (E) HVAC EQUIPMENT AND PADS; SEE MECHANICAL, TYP.
02.23	DEMOLISH (E) HVAC EQUIPMENT; SEE MECHANICAL, TYP.
02.34	THIS SECTION OF WALL BEHIND EQUIPMENT TO REMAIN
02.36	(E) STEEL STAIR AT FUEL TANK TO REMAIN
02.38	DEMOLISH EAST END OF (E) CONCRETE PAD AS INDICATED; SEE STRUCTURAL DRAWINGS FOR MORE INFO
02.39	SAWCUT EXISTING SLAB
02.41	(E) CONCRETE SLAB TO REMAIN; PROTECT IN PLACE
02.43	(E) STAIR LANDING ABOVE
02.51	(E) RAOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE
02.54	(E) WALL TO BE DEMOLISHED
13.01	PROVIDE TEMPORARY SUPPORT FOR LOAD BANK CONTROL
23.93	(E) MECHANICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE
26.91	(E) ELECTRICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE

## LEGEND

(E) WALL TO REMAIN

(E) WALL; OPEN STUD W/GOAT WIRE

(E) WALL TO BE DEMOLISHED

(E) BUILDING COMPONENT TO BE DEMOLISHED; STAIRS, HANDRAILS, AND ANY MISC ITEMS

(E) RADOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE

(E) DOOR TO BE DEMOLISHED

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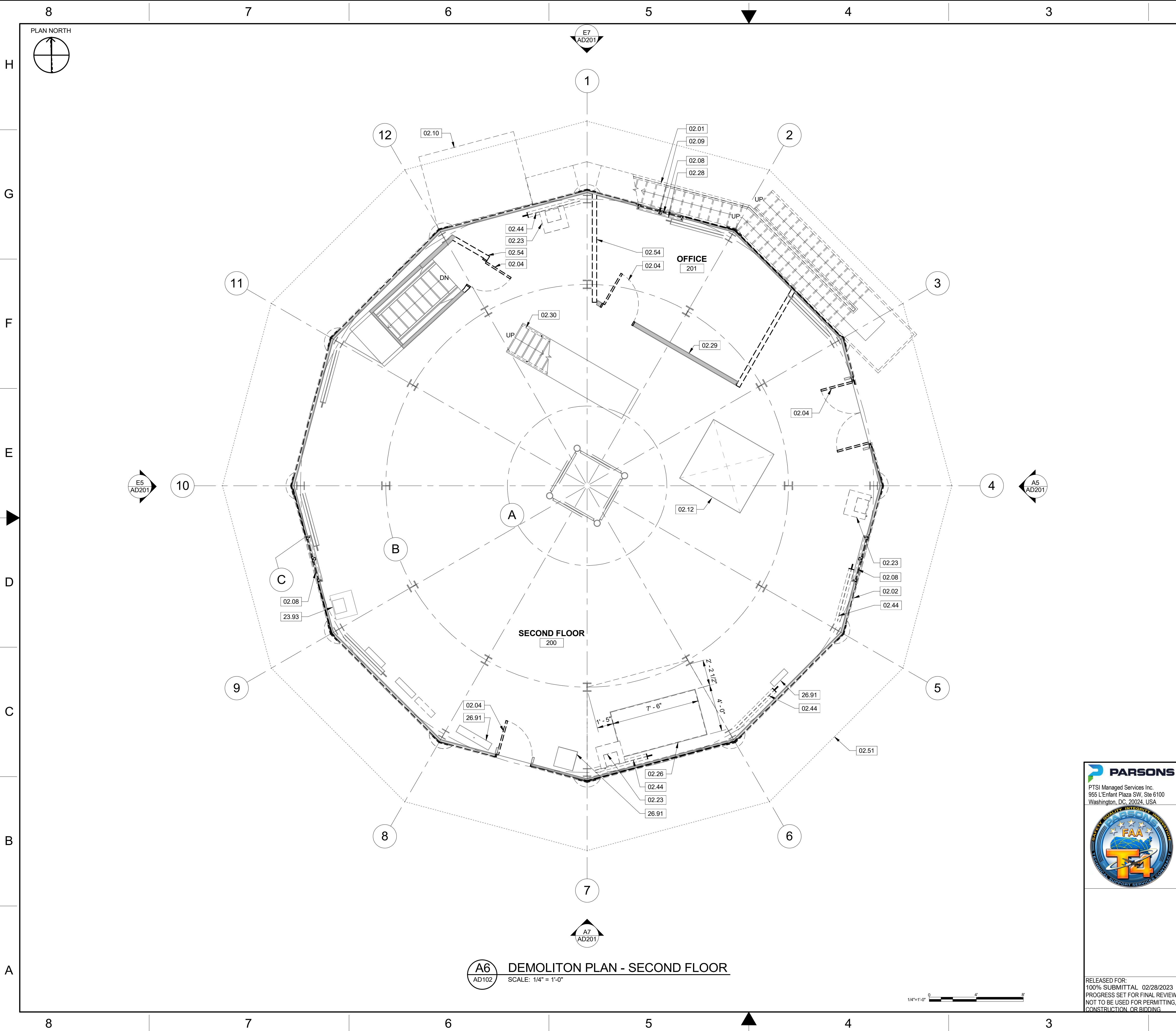
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### GENERAL NOTES

- FULLY STRIP EXTERIOR ALUMINUM SIDING FROM RADOME TOWER.
- PROVIDE TEMPORARY FALL PROTECTION FOR OPENINGS.

### KEYNOTES

02.01	DEMOLISH (E) EXTERIOR STAIR AND FOOTING
02.02	DEMOLISH (E) EXTERIOR ALUMINUM SIDING; (E) STEEL SIDING UNDER ALUMINUM SIDING TO REMAIN
02.04	DEMOLISH (E) DOOR AND FRAME
02.08	DEMOLISH (E) WINDOW AND FRAME
02.09	DEMOLISH (E) SECURITY BARS
02.10	DEMOLISH (E) EXTERIOR LANDING
02.12	(E) COVERED HATCHWAY TO REMAIN
02.23	DEMOLISH (E) HVAC EQUIPMENT; SEE MECHANICAL, TYP.
02.26	REMOVE A SECTION OF THE (E) FLOOR TO CREATE DUCT CHASE, SEE STRUCTURAL FOR DETAILS
02.28	DEMOLISH (E) WINDOW SHADE, FRAMING AND HARDWARE
02.29	DEMOLISH (E) DRYWALL (AND WOOD PANELING WHERE OCCURS), EXPOSE AND PREPARE STUDS FOR NEW WALL BOARD
02.30	DEMOLISH (E) HANDRAILS
02.44	(E) STRUCTURAL BRACES TO BE REMOVED AND REPLACED WITH ENHANCED MEMBERS; SEE STRUCTURAL
02.51	(E) RADOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE
02.54	(E) WALL TO BE DEMOLISHED
23.93	(E) MECHANICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE
26.91	(E) ELECTRICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE

### LEGEND

	(E) WALL TO REMAIN
	(E) WALL; OPEN STUD W/GOAT WIRE
	(E) WALL TO BE DEMOLISHED
	(E) BUILDING COMPONENT TO BE DEMOLISHED; STAIRS, HANDRAILS, AND ANY MISC ITEMS
	(E) RADOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE
	(E) DOOR TO BE DEMOLISHED

ROOM NAME

101

ROOM NAME / ROOM NUMBER

UNCHECKED

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FAA  
T4  
TECHNICAL SUPPORT SERVICE CONTRACT

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DEMOLITION PLAN - SECOND FLOOR					
RUSSELLVILLE AR					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
PROJECT ENGINEER		MGR: ENGINEERING			
DESIGNED	JH	ISSUED BY	DATE	JCN	22002872
DRAWN	JC	ENGINEERING SERVICES	DRAWING NO		
CHECKED	KH	QXR - 22002872 - AD102		REV	

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ISSUED FOR: 100% SUBMITTAL





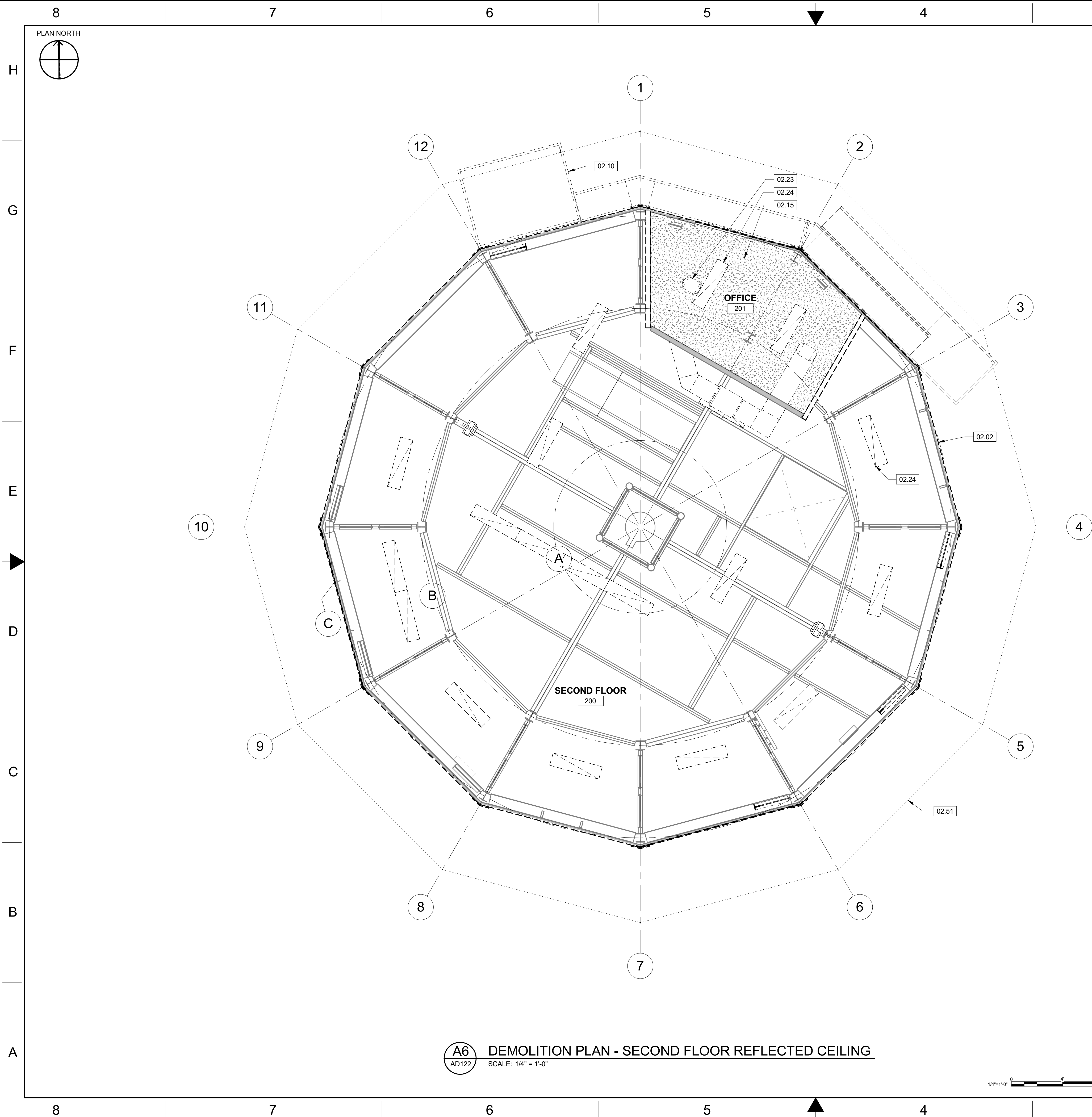













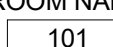

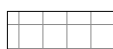
## GENERAL NOTES

1. FULLY STRIP EXTERIOR ALUMINUM SIDING FROM RADOME TOWER.
2. FOR ELECTRICAL AND MECHANICAL DEMOLITION SCOPE; SEE ELECTRICAL AND MECHANICAL

## KEYNOTES

02.02	DEMOLISH (E) EXTERIOR ALUMINUM SIDING; (E) STEEL SIDING UNDER ALUMINUM SIDING TO REMAIN
02.10	DEMOLISH (E) EXTERIOR LANDING
02.15	DEMOLISH (E) GYP BD CEILING FRAMING
02.23	DEMOLISH (E) HVAC EQUIPMENT; SEE MECHANICAL, TYP.
02.24	DEMOLISH (E) LIGHT FIXTURE; SEE ELECTRICAL, TYP.
02.51	(E) RADOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE

## LEGEND

ROOM NAME		
101	← ROOM NUMBER	(E) WALL
E	← CEILING TYPE	(E) WALL; OPEN STUD W/GOAT WIRE (E) WALL TO BE DEMOLISHED (E) BUILDING COMPONENT TO BE REMOVED; LIGHT FIXTURES, DUCTS, AND ANY MISC ITEMS
	A - ACOUSTICAL CEILING PANEL	
	G - GYPSUM BOARD CEILING	
	E - EXPOSED TO STRUCTURE ABOVE	
	(E) WOODEN JOIST & GYP	

**UNCHECKED WORK-IN-PROGRESS**

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WORK-IN-PROGRESS

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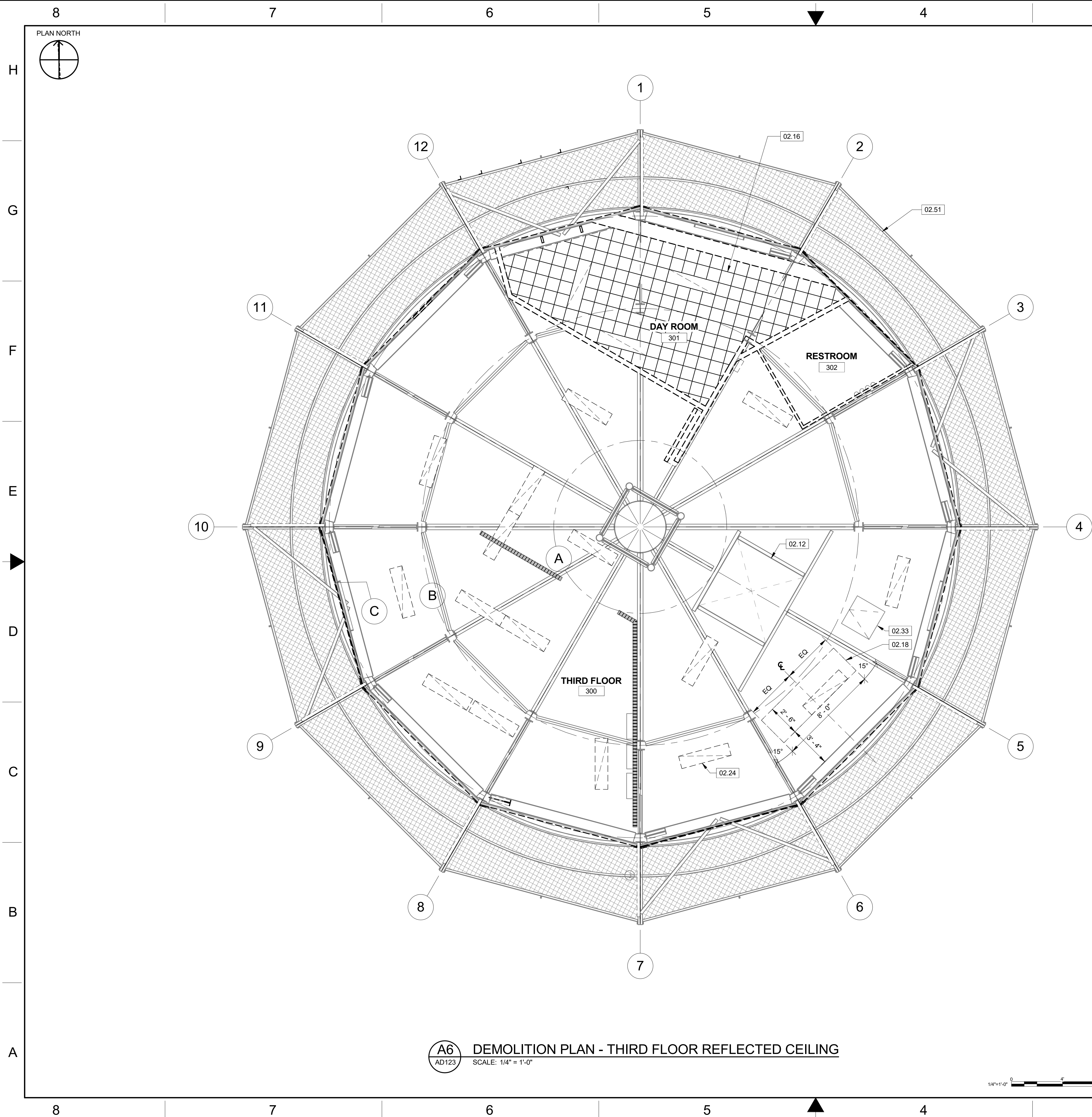
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REV	APPROVED DATE	DESCRIPTION					JCN	REDLINE DATE	APV
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION									
ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DEMOLITION PLAN - SECOND FLOOR REFLECTED CEILING									
RUSSELLVILLE						AR			
REVIEWED BY		SUBMITTED BY				APPROVED BY			
		DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN				DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN			
		PROJECT ENGINEER				MGR: ENGINEERING			
DESIGNED JH		ISSUED BY		DATE		JCN		22002872	
DRAWN JC		ENGINEERING SERVICES		DRAWING NO					
CHECKED KH				QXR - 22002872 - AD122		REV			





## GENERAL NOTES

1. FULLY STRIP EXTERIOR ALUMNINUM SIDING FROM RADOME TOWER.
2. FOR ELECTRICAL AND MECHANICAL DEMOLITION SCOPE; SEE ELECTRICAL AND MECHANICAL

## KEYNOTES

02.12	(E) COVERED HATCHWAY TO REMAIN
02.16	DEMOLISH (E) ACOUSTICAL TILE CEILING AND FRAMING
02.18	DEMOLISH A SECTION OF FLOOR; PREP FOR NEW ACCESS HATCH
02.24	DEMOLISH (E) LIGHT FIXTURE; SEE ELECTRICAL, TYP.
02.33	DEMOLISH (E) ACCESS HATCH AND CURB
02.51	(E) RADOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE

## LEGEND

ROOM NAME	ROOM NUMBER	CEILING TYPE	DESCRIPTION
	101	E	(E) WALL (E) WALL; OPEN STUD W/GOAT WIRE (E) WALL TO BE DEMOLISHED (E) BUILDING COMPONENT TO BE DEMOLISHED; LIGHT FIXTURES, DUCTS, AND ANY MISC ITEMS
			A - ACOUSTICAL CEILING PANEL
			G - GYPSUM BOARD CEILING
			E - EXPOSED TO STRUCTURE ABOVE
			(E) WOODEN JOIST & GY

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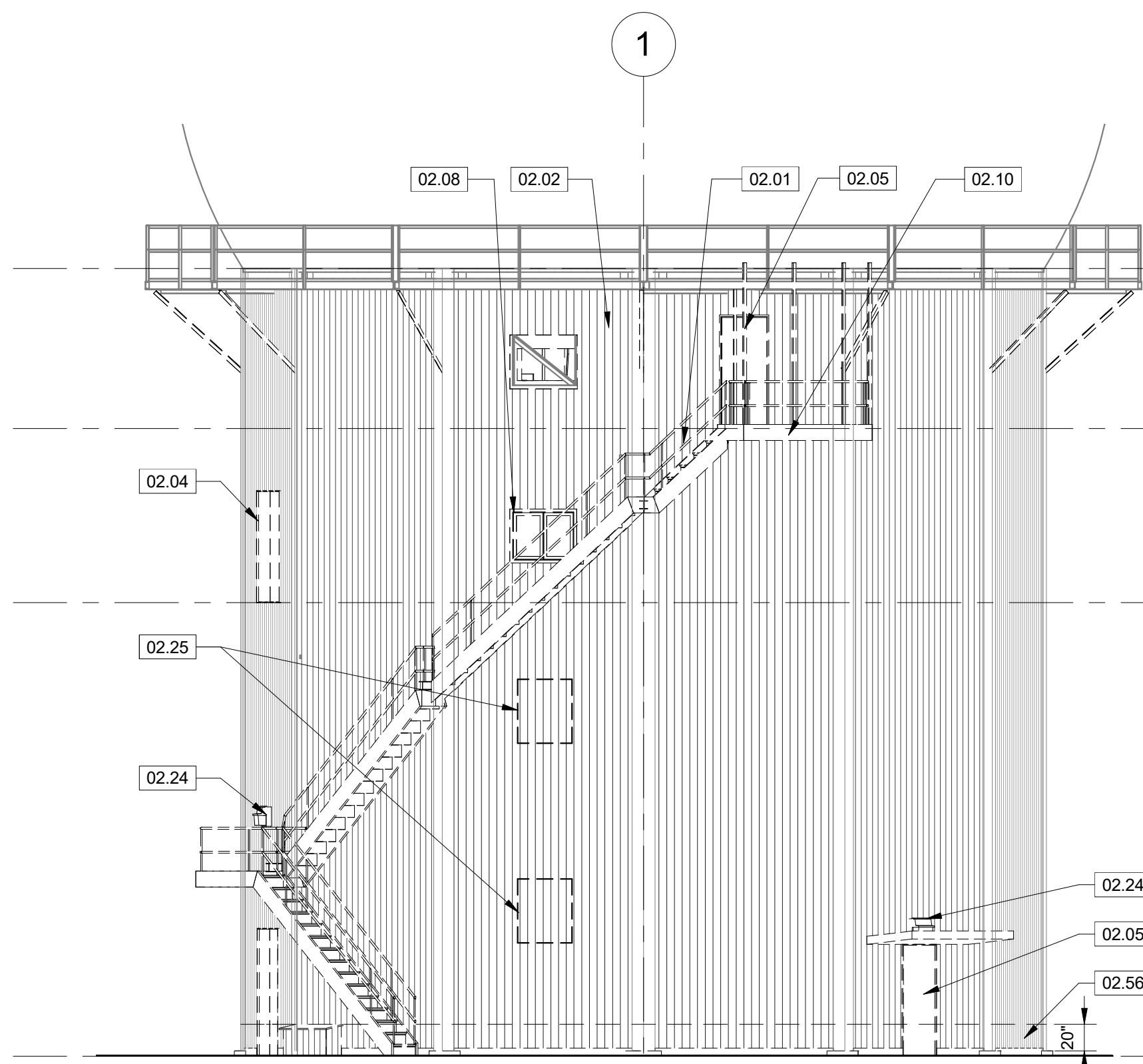


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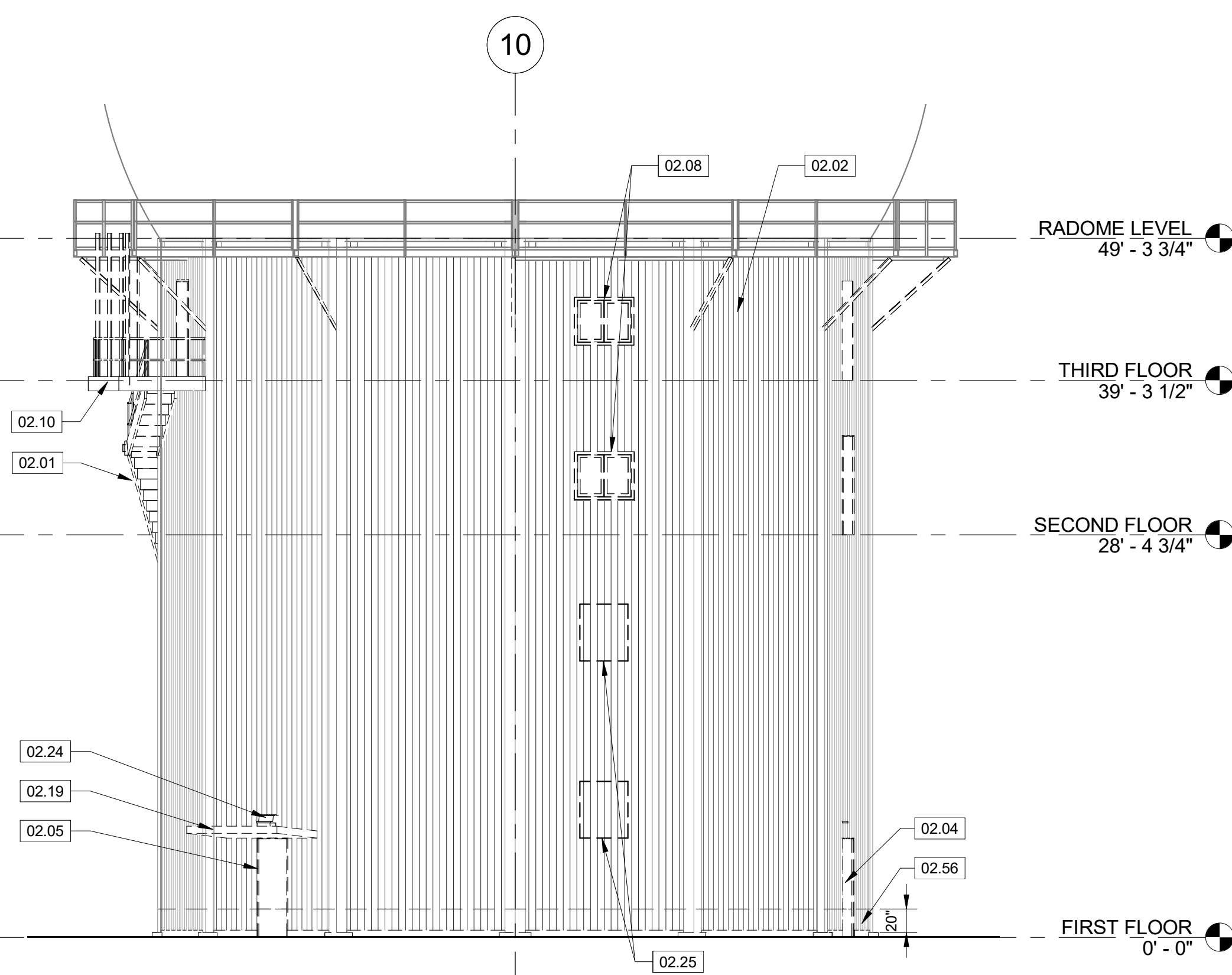
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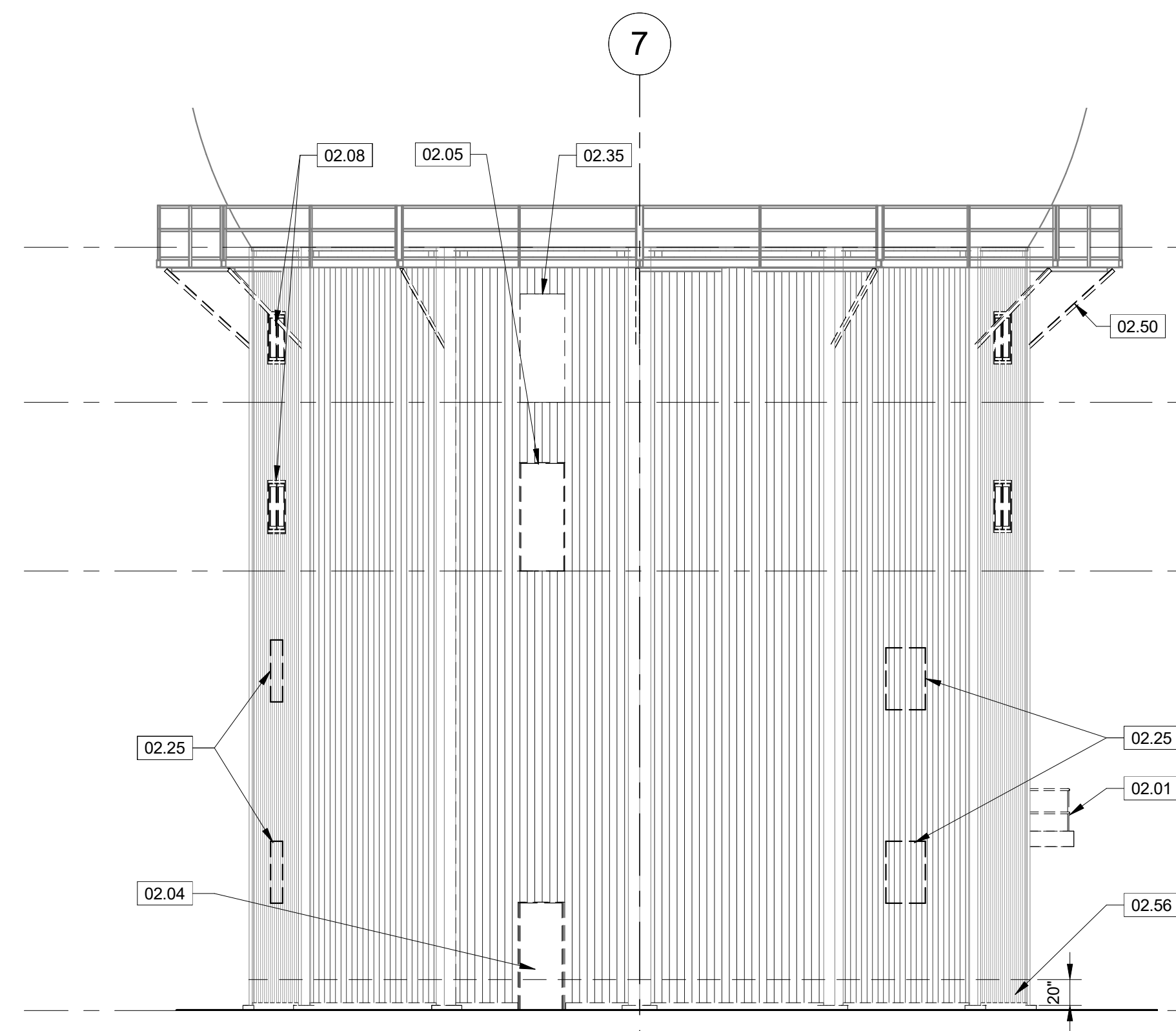
H  
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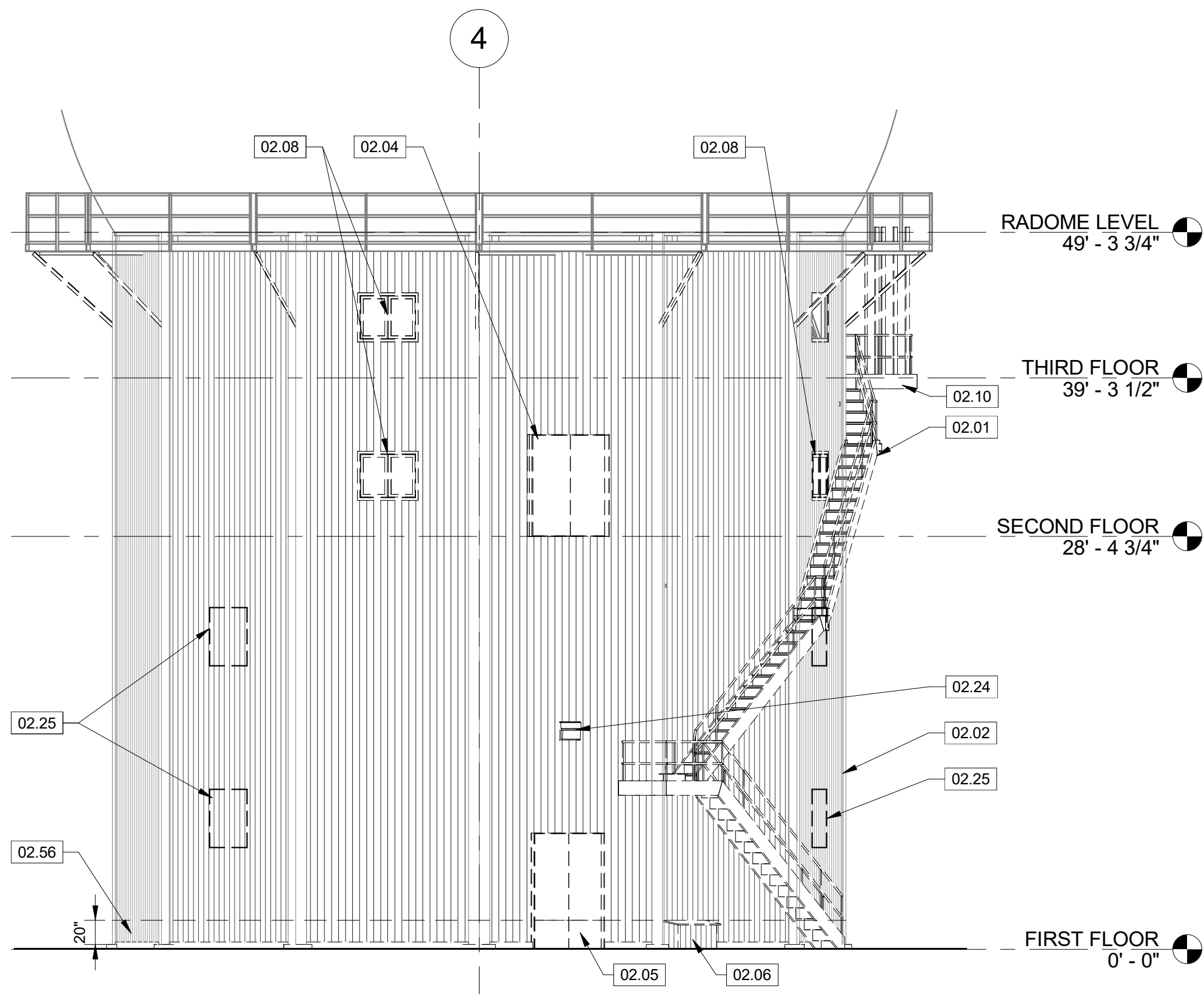
**E7** DEMO - EXTERIOR ELEVATION - NORTH  
AD201 SCALE: 1/8" = 1'-0"



**E5** DEMO - EXTERIOR ELEVATION - WEST  
AD201 SCALE: 1/8" = 1'-0"



**A7** DEMO - EXTERIOR ELEVATION - SOUTH  
AD201 SCALE: 1/8" = 1'-0"



**A5** DEMO - EXTERIOR ELEVATION - EAST  
AD201 SCALE: 1/8" = 1'-0"



## GENERAL NOTES

- FULLY STRIP EXTERIOR ALUMINUM SIDING FROM RADOME TOWER.
- (E) EGRESS STAIR SUPPORT BEAMS TO BE REMOVED DURING DEMOLITION OF THE ENTIRE EGRESS STAIR. SUPPORTS TO BE TRIMMED FLUSH TO BUILDING COLUMNS LEAVING (E) CORRUGATED STEEL SHEATHING IN PLACE TO SUPPORT (N) IMP PANELS.

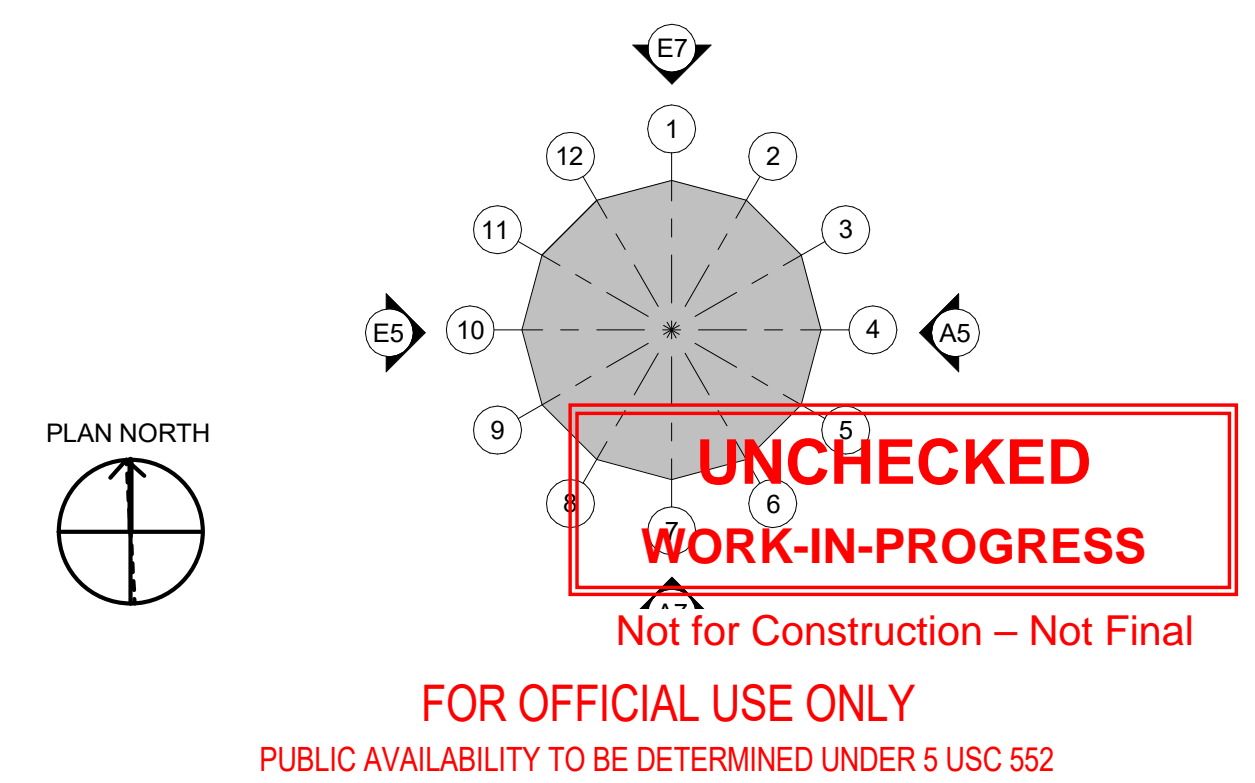
## KEYNOTES

02.01	DEMOLISH (E) EXTERIOR STAIR AND FOOTING
02.02	DEMOLISH (E) EXTERIOR ALUMINUM SIDING, (E) STEEL SIDING UNDER ALUMINUM SIDING TO REMAIN
02.04	DEMOLISH (E) DOOR AND FRAME
02.05	DEMOLISH (E) DOOR AND FRAME - MODIFY FRAMING TO ENLARGE OPENING FOR NEW DOOR
02.06	DEMOLISH (E) EXTERIOR PLUMBING SHED
02.08	DEMOLISH (E) WINDOW AND FRAME
02.10	DEMOLISH (E) EXTERIOR LANDING
02.19	DEMOLISH (E) AWNING
02.24	DEMOLISH (E) LIGHT FIXTURE; SEE ELECTRICAL, TYP.
02.25	DEMOLISH (E) ORIGINAL WINDOW AND FRAME FROM INTERIOR METAL WALL PANEL
02.35	DEMOLISH (E) SECTION OF WALL FOR (N) DOOR OPENING
02.50	DEMOLISH (E) CATWALK SUPPORT STRUTS, REPLACE WITH NEW, SEE STRUCTURAL
02.56	REMOVE 20" OF (E) STEEL CORRUGATED SIDING

## LEGEND

----- (E) BUILDING COMPONENT TO BE DEMOLISHED; STAIRS, HANDRAILS, AND ANY MISC ITEMS

## KEY PLAN



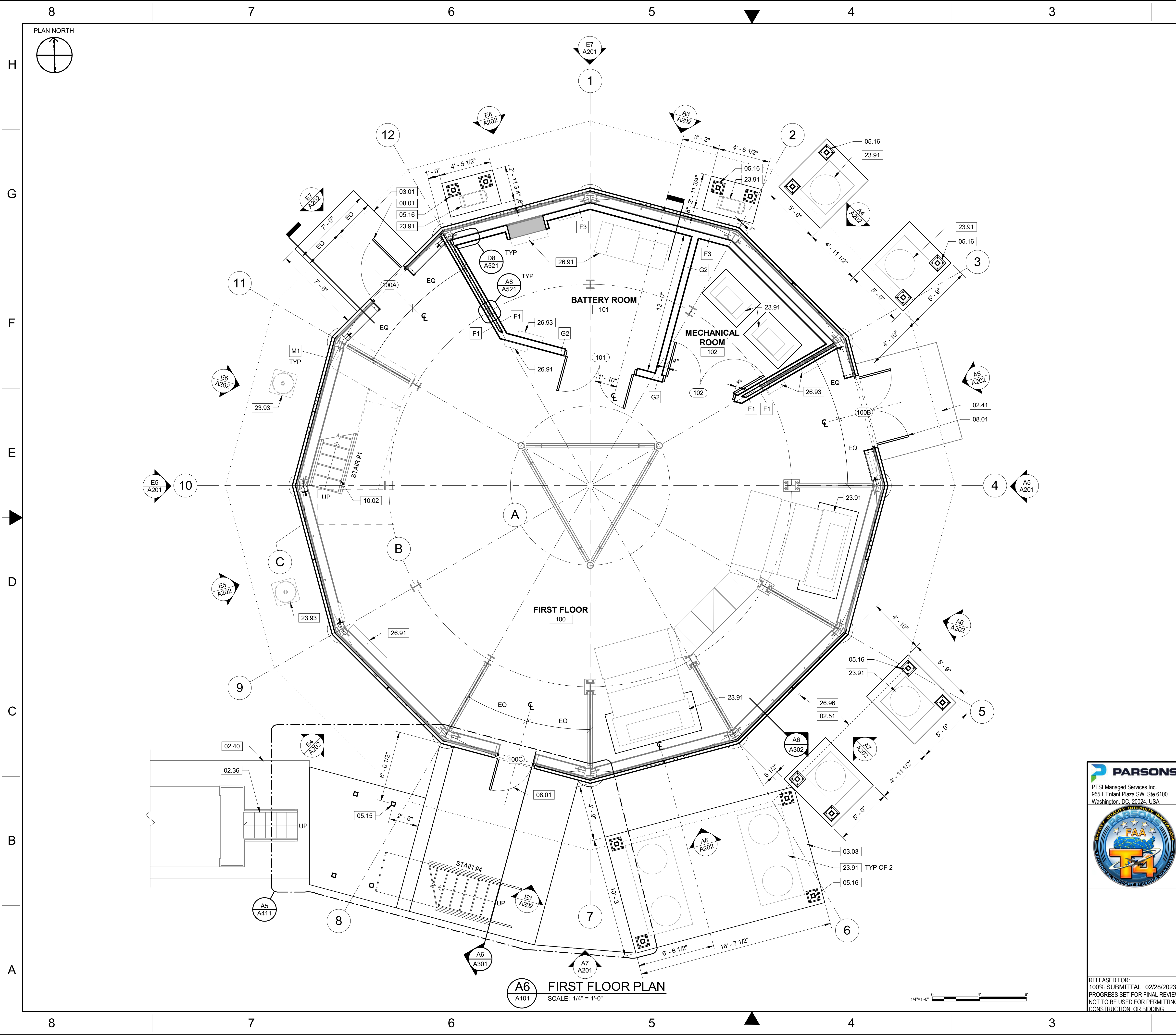
**PARSONS**  
PTSI Managed Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA



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REV	APPROVED DATE	DESCRIPTION		JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						
ATO - TECHNICAL OPERATIONS				CENTRAL SERVICE AREA		
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DEMOLITION - BUILDING EXTERIOR ELEVATIONS						
RUSSELLVILLE				AR		
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## GENERAL NOTES

- SEE ELEVATION SHEET A202 FOR INDIVIDUAL EXTERIOR ELEVATIONS.

## KEYNOTES

02.36	(E) STEEL STAIR AT FUEL TANK TO REMAIN
02.40	REMAINING PORTION OF (E) CONCRETE PAD
02.41	(E) CONCRETE SLAB TO REMAIN; PROTECT IN PLACE
02.51	(E) RADOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE
03.01	(N) CONCRETE LANDING; SEE CIVIL
03.03	(N) CONCRETE PAD
05.15	(N) STRUCTURAL COLUMN FOR STAIR LANDING; SEE STRUCTURAL
05.16	(N) STRUCTURAL STEEL AND EQUIPMENT ICE SHELTER; SEE STRUCTURAL
08.01	(N) HOLLOW METAL STEEL DOOR FRAME MOUNTED TO BUILDING STRUCTURE, SEE STRUCTURAL
10.02	INSTALL (N) FIBERGRATE STAIR TREAD COVERS AT EXISTING INTERIOR STAIR
23.91	(N) MECHANICAL EQUIPMENT; SEE MECHANICAL
23.93	(E) MECHANICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE
26.91	(E) ELECTRICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE
26.93	(N) ELECTRICAL EQUIPMENT
26.96	(N) ELECTRICAL POWER PEDESTAL

## LEGEND

	(E) WALL
	(E) WALL; OPEN STUD W/GOAT WIRE
	(N) WALL
ROOM NAME 101	ROOM NAME / ROOM NUMBER; SEE ROOM FINISH SCHEDULE A641
XX	WALL TAG; SEE PARTITION TYPES A631 AND A632
###	DOOR TAG; SEE DOOR SCHEDULE A621
XX	WINDOW TAG; SEE WINDOW SCHEDULE A641

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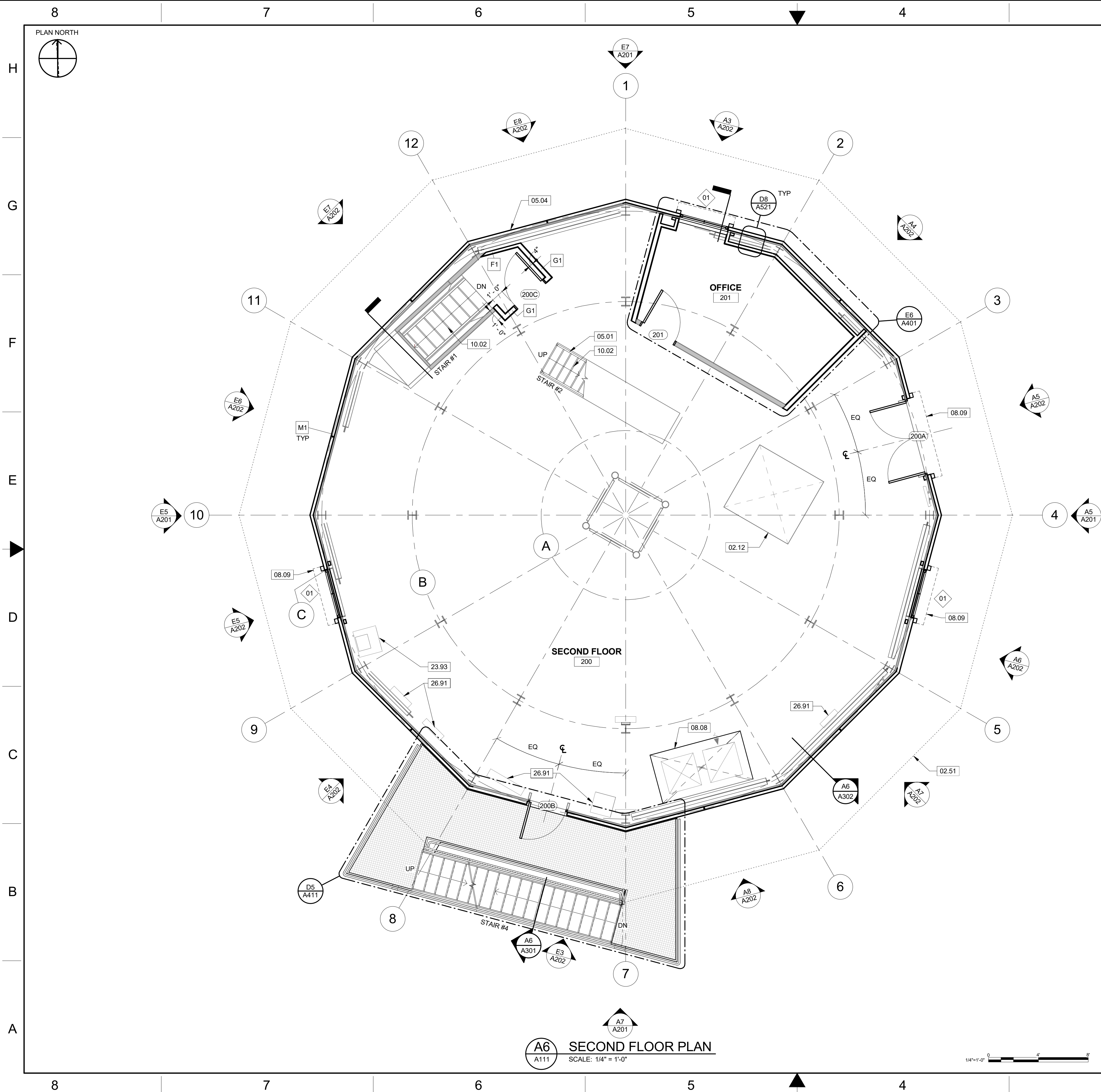


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## GENERAL NOTES

1. SEE ELEVATION SHEET A202 FOR INDIVIDUAL EXTERIOR ELEVATIONS.

## KEYNOTES

02.12	(E) COVER THE HATCHWAY TO REMAIN
02.51	(E) RADOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE
05.01	MODIFY (E) HANDRAIL TO COMPLY WITH OSHA TO THE GREATEST EXTENT POSSIBLE
05.04	(N) METAL WALL PANEL
08.08	(N) OPENING IN FLOOR FOR MECHANICAL DUCT; SEE STRUCTURAL AND MECHANICAL
08.09	(N) ROLL DOWN HURRICANE SHUTTER ABOVE
10.02	INSTALL (N) FIBERGLASS STAIR TREAD COVERS AT EXISTING INTERIOR STAIR
23.93	(E) MECHANICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE
26.91	(E) ELECTRICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE

## LEGEND

	(E) WALL
	(E) WALL; OPEN STUD W/GOAT WIRE
	(N) WALL
ROOM NAME	
	ROOM NAME / ROOM NUMBER; SEE ROOM FINISH SCHEDULE <b>A641</b>
	WALL TAG; SEE PARTITION TYPES <b>A631</b> and <b>A632</b>
	DOOR TAG; SEE DOOR SCHEDULE <b>A621</b>
	WINDOW TAG; SEE WINDOW SCHEDULE <b>A641</b>

W SCHEDULE A541

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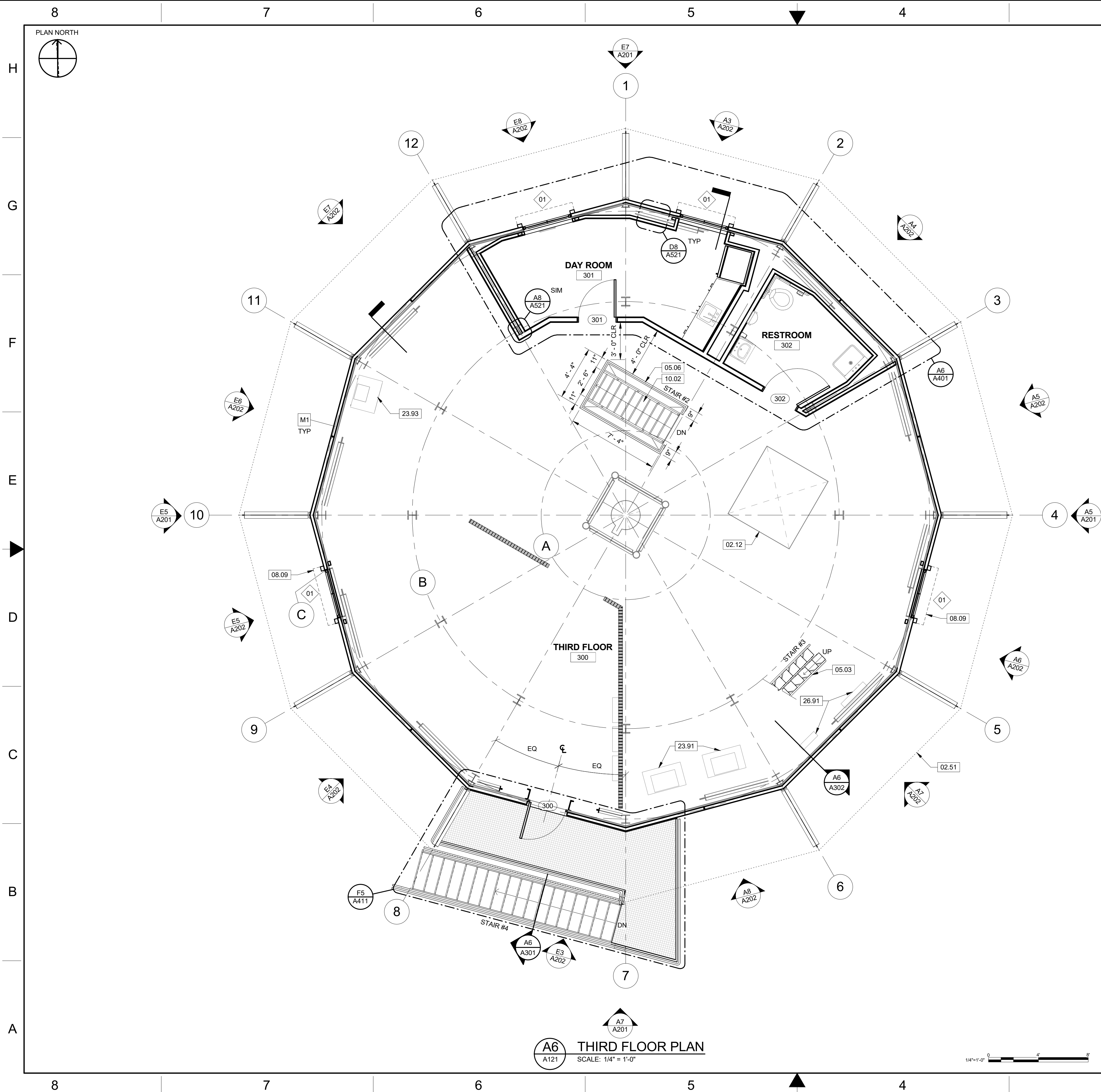


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ATO - TECHNICAL OPERATIONS								CENTRAL SERVICE AREA	
<div style="text-align: center; font-size: 2em;"><b>ARSR</b></div> <div style="text-align: center; font-size: 1.5em;"><b>LONG RANGE RADAR SUSTAINMENT PROJECT</b></div> <div style="text-align: center; font-size: 1.5em;"><b>SECOND FLOOR PLAN</b></div>									
<b>RUSSELLVILLE</b>									
AR									
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		PROJECT ENGINEER				MGR: ENGINEERING			
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		CHECKED KH				QXR - 22002872 - A111		REV	

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


## GENERAL NOTES

1. SEE ELEVATION SHEET A202 FOR INDIVIDUAL EXTERIOR ELEVATIONS.

## KEYNOTES

02.12	(E) COVERED HATCHWAY TO REMAIN
02.51	(E) RADOME CATWALK & GUARDRAIL ABOVE; REMAIN IN PLACE
05.03	(N) STEEL ALTERNATING TREAD STAIR WITH OSHA COMPLIANT HANDRAILS; SEE A611
05.06	(N) OSHA COMPLIANT GUARDRAIL AT OPENING
08.09	(N) ROLL DOWN HURRICANE SHUTTER ABOVE
10.02	INSTALL (N) FIBERGLASS STAIR TREAD COVERS AT EXISTING INTERIOR STAIR
23.91	(N) MECHANICAL EQUIPMENT; SEE MECHANICAL
23.93	(E) MECHANICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE
26.91	(E) ELECTRICAL EQUIPMENT TO REMAIN; PROTECT IN PLACE

## LEGEND

 (E) WALL  
 (E) WALL; OPEN STUD W/GOAT WIRE  
 (N) WALL  
 ROOM NAME  
 ROOM NAME / ROOM NUMBER; SEE ROOM FINISH SCHEDULE **A641**  
 WALL TAG; SEE PARTITION TYPES **A631** AND **A632**  
 DOOR TAG; SEE DOOR SCHEDULE **A621**  
 WINDOW TAG; SEE WINDOW SCHEDULE **A641**

SCHEDULE A-11  
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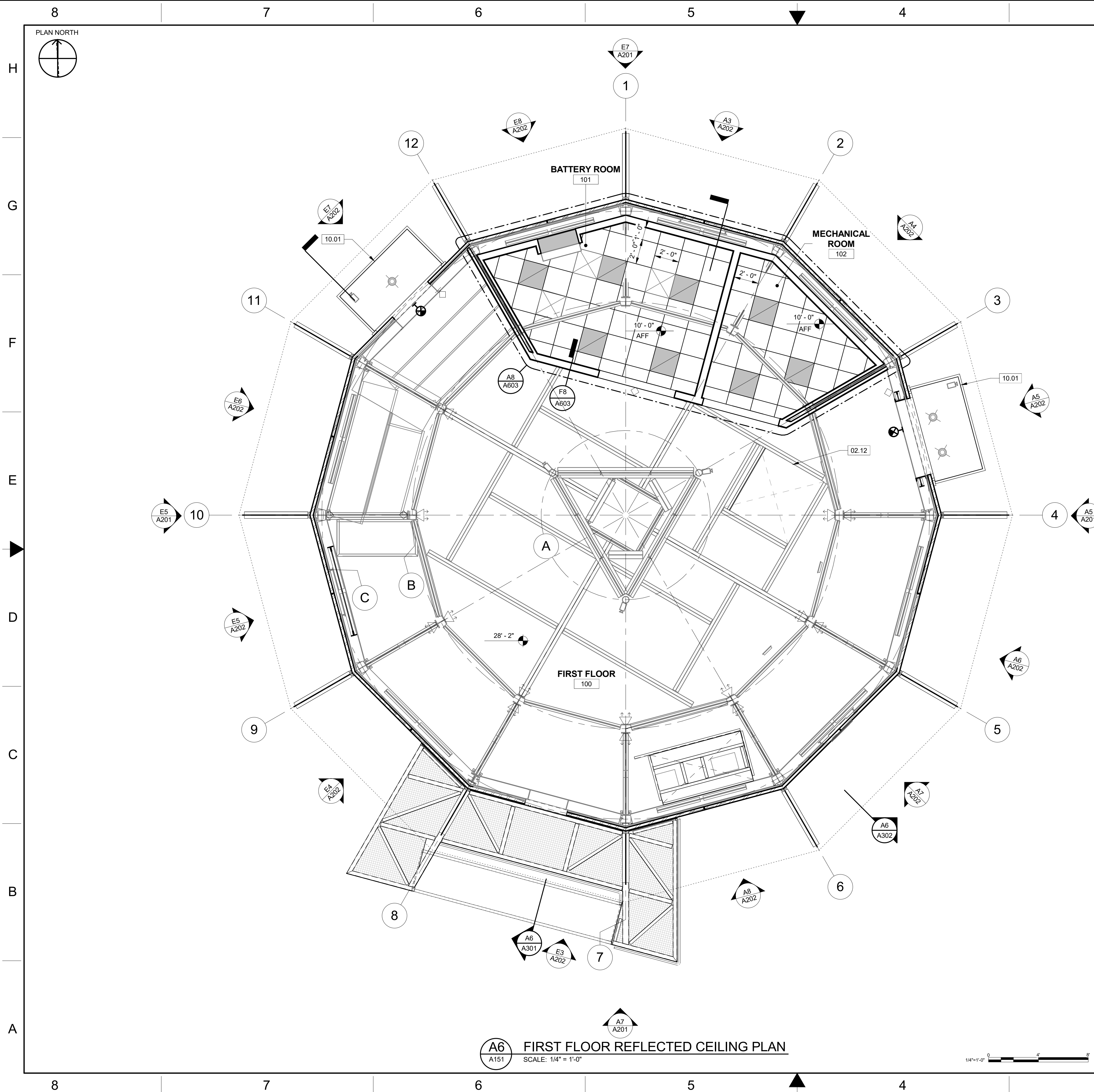
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## GENERAL NOTES

## KEYNOTES

02.12	(E) COVERED HATCHWAY TO REMAIN
05.17	(N)EQUIPMENT ICE SHELTER; SEE STRUCTURAL
10.01	(N) INTEGRATED CANOPY

## LEGEND

(E) WALL

(E) WALL; OPEN STUD W/GOAT WIRE

2' X 2' ACP SYSTEM; SEE FINISH SCHEDULE AND FINISH KEY

GYP BD CEILING; SEE FINISH SCHEDULE AND FINISH KEY

EXPOSED TO STRUCTURE ABOVE

1' X 4' SUSPENDED LED LUMINAIRE; SEE ELECTRICAL

2' X 2' SUSPENDED LED LUMINAIRE; SEE ELECTRICAL

RECESSED LED LUMINAIRE AT CANOPY; SEE ELECTRICAL

WALL MOUNTED LED LUMINAIRE; SEE ELECTRICAL

WALL MOUNTED LED LUMINAIRE; SEE ELECTRICAL

SECURITY CAMERA; SEE ELECTRICAL

EXIT SIGN; SEE ELECTRICAL

SUPPLY; SEE MECHANICAL

RETURN; SEE MECHANICAL

RETURN; SEE MECHANICAL

CASSETTE - AIR CONDITIONING UNIT; SEE MECHANICAL

9' - 0" AFF  
CEILING HEIGHT ABOVE FINISHED

**UNCHECKED  
WORK-IN-PROGRESS**

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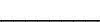

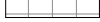
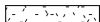















## GENERAL NOTES

## KEYNOTES

02.12	(E) COVERED HATCHWAY TO REMAIN
05.03	(N) STEEL ALTERNATING TREAD STAIR WITH OSHA COMPLIANT HANDRAILS; SEE A611
08.06	(N) ROLL DOWN HURRICANE SHUTTER
08.10	FILL ACCESS HATCH HOLE; SEE STRUCTURAL
23.91	(N) MECHANICAL EQUIPMENT; SEE MECHANICAL

## LEGEND

	(E) WALL
	(E) WALL; OPEN STUD W/GOAT WIRE
	2' X 2' ACP SYSTEM; SEE FINISH SCHEDULE AND FINISH KEY
	GYP BD CEILING; SEE FINISH SCHEDULE AND FINISH KEY
	EXPOSED TO STRUCTURE ABOVE
	1' X 4' SUSPENDED LED LUMINAIRE; SEE ELECTRICAL
	2' X 2' SUSPENDED LED LUMINAIRE; SEE ELECTRICAL
	RECESSED LED LUMINAIRE AT CANOPY; SEE ELECTRICAL
	WALL MOUNTED LED LUMINAIRE; SEE ELECTRICAL
	WALL MOUNTED LED LUMINAIRE; SEE ELECTRICAL
	SECURITY CAMERA; SEE ELECTRICAL
	EXIT SIGN; SEE ELECTRICAL
	SUPPLY; SEE MECHANICAL
	RETURN; SEE MECHANICAL
	RETURN; SEE MECHANICAL
	CASSETTE - AIR CONDITIONING UNIT; SEE MECHANICAL
	CEILING HEIGHT ABOVE FINISH

**UNCHECKED**

**WORK-IN-PROGRESS**

Not for Construction


**UNCHECKED**  
UNIT; SEE MECHANIC **WORK-IN-PROGRESS**

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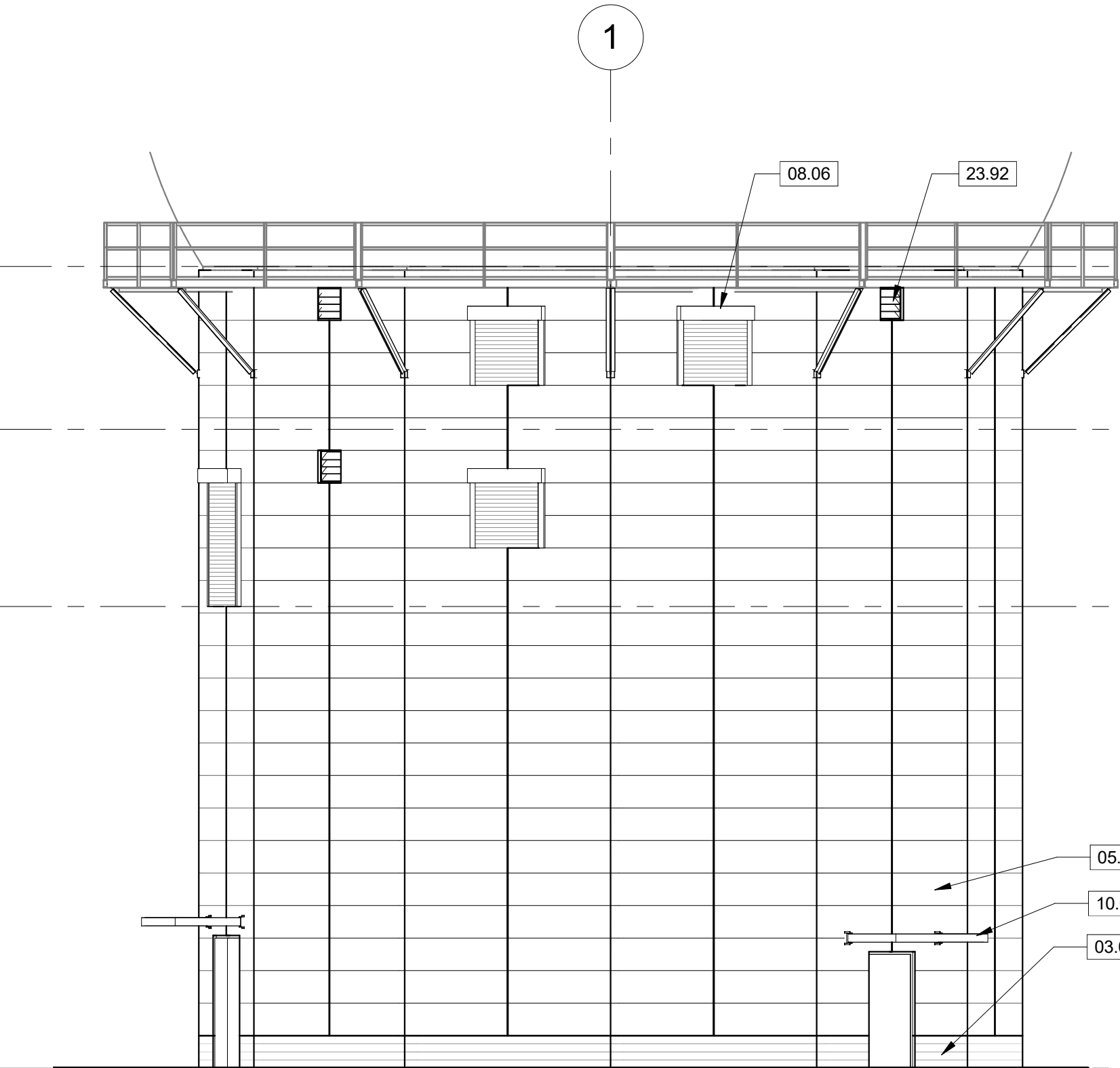


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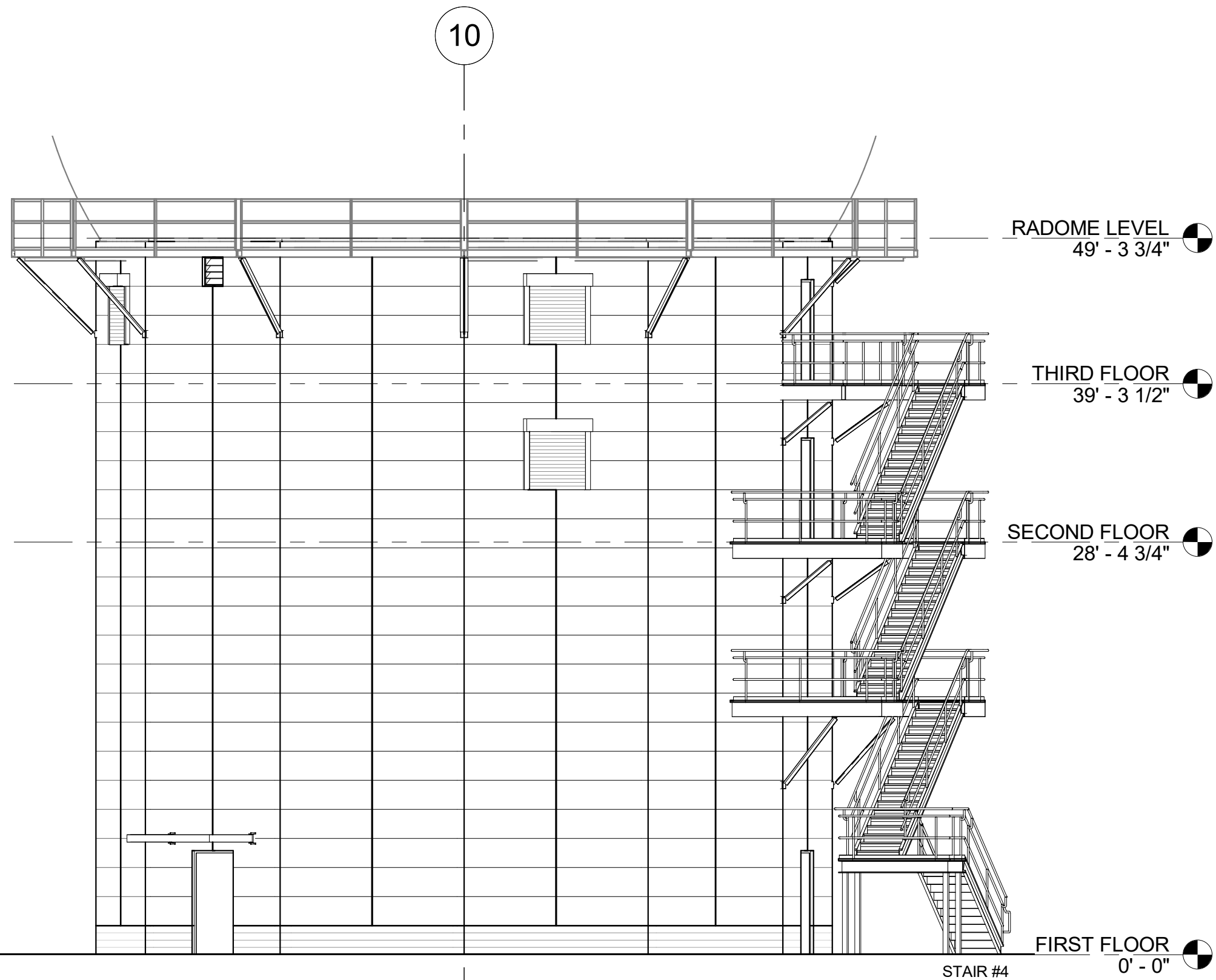
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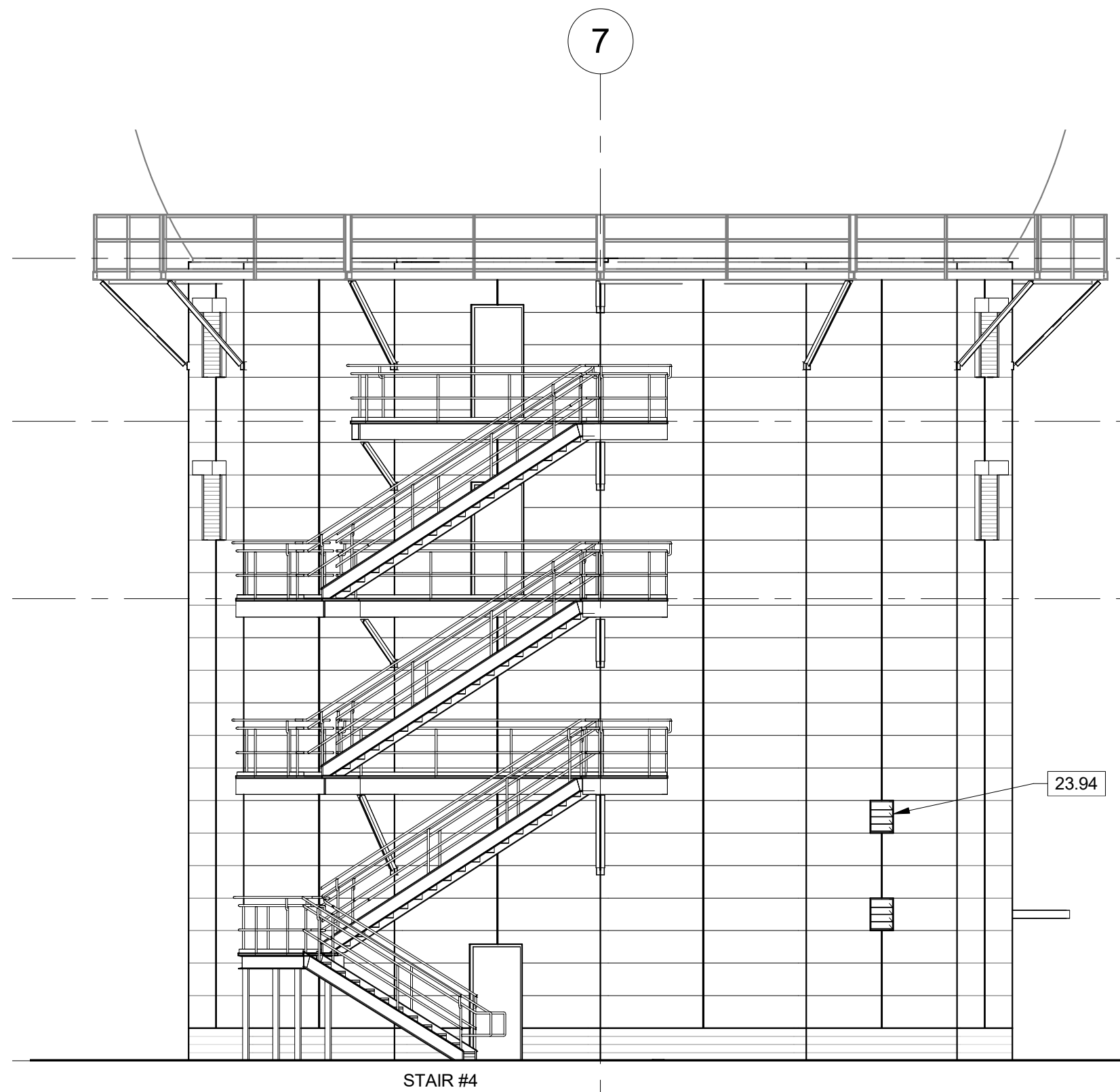
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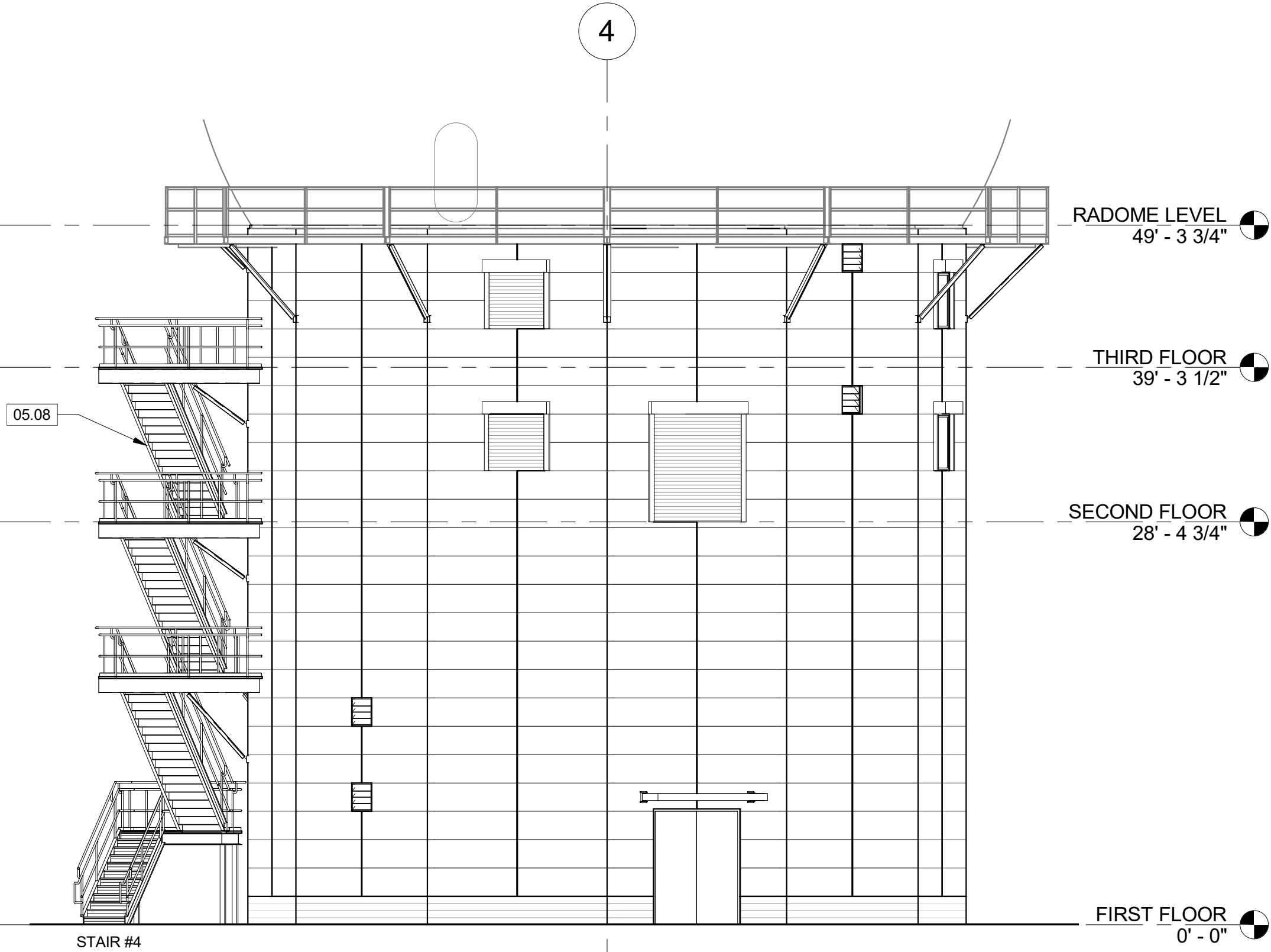
**E7** EXTERIOR ELEVATION - NORTH  
A201 SCALE: 1/8" = 1'-0"



**E5** EXTERIOR ELEVATION - WEST  
A201 SCALE: 1/8" = 1'-0"



**A7** EXTERIOR ELEVATION - SOUTH  
A201 SCALE: 1/8" = 1'-0"



**A5** EXTERIOR ELEVATION - EAST  
A201 SCALE: 1/8" = 1'-0"

1/8"=1'-0" 0 5' 15'

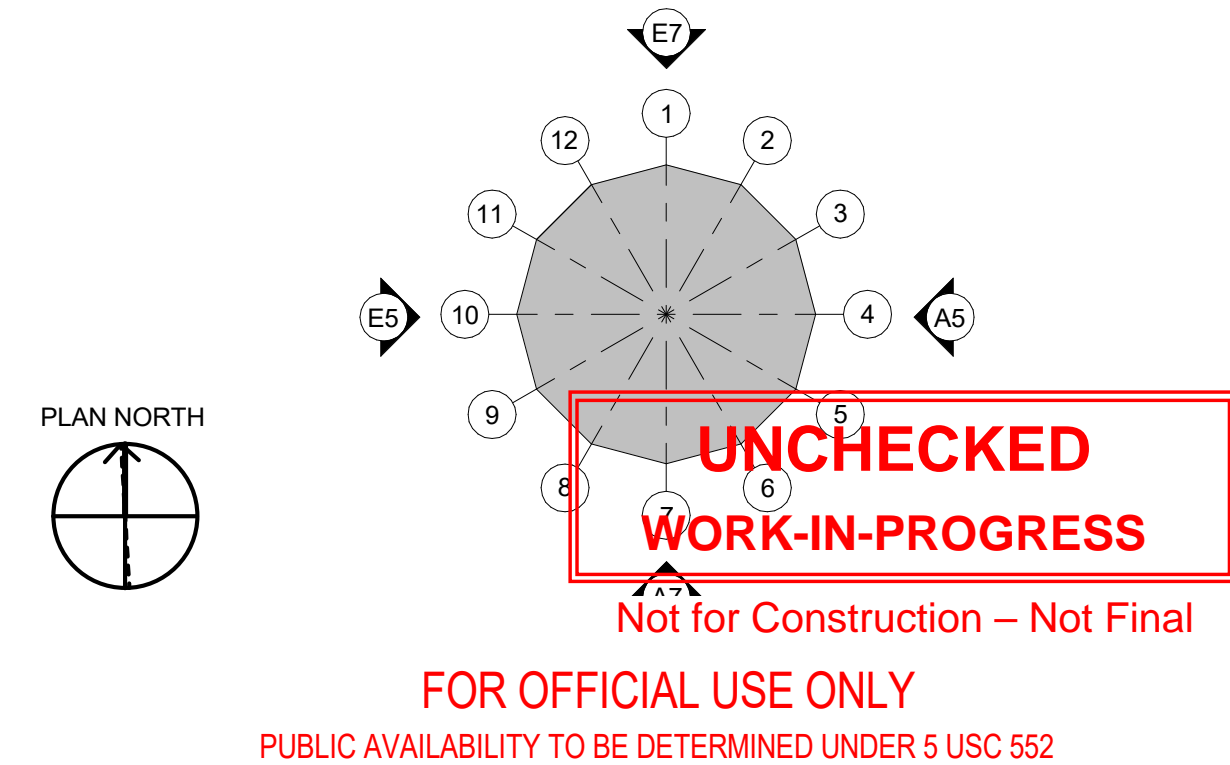
## GENERAL NOTES

1. SEE ELEVATION SHEET A202 FOR INDIVIDUAL EXTERIOR ELEVATIONS.

## KEYNOTES

03.02	(N) BOARD FORMED CONCRETE STEM WALL; SEE STRCUTURAL
05.04	(N) METAL WALL PANEL
05.08	(N) OSHA COMPLIANT FIRE EXIT STAIRS
08.06	(N) ROLL DOWN HURRICANE SHUTTER
10.01	(N) INTEGRATED CANOPY
23.92	(N) INTEGRATED AIR GRILLE; SEE MECHANICAL
23.94	ALIGN LOUVER GRILLS WITH HORIZONTAL AND VERTICAL PANEL JOINTS, TYP

## KEY PLAN



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RUSSELLVILLE									
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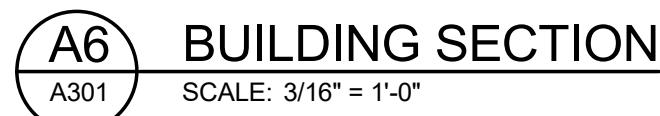
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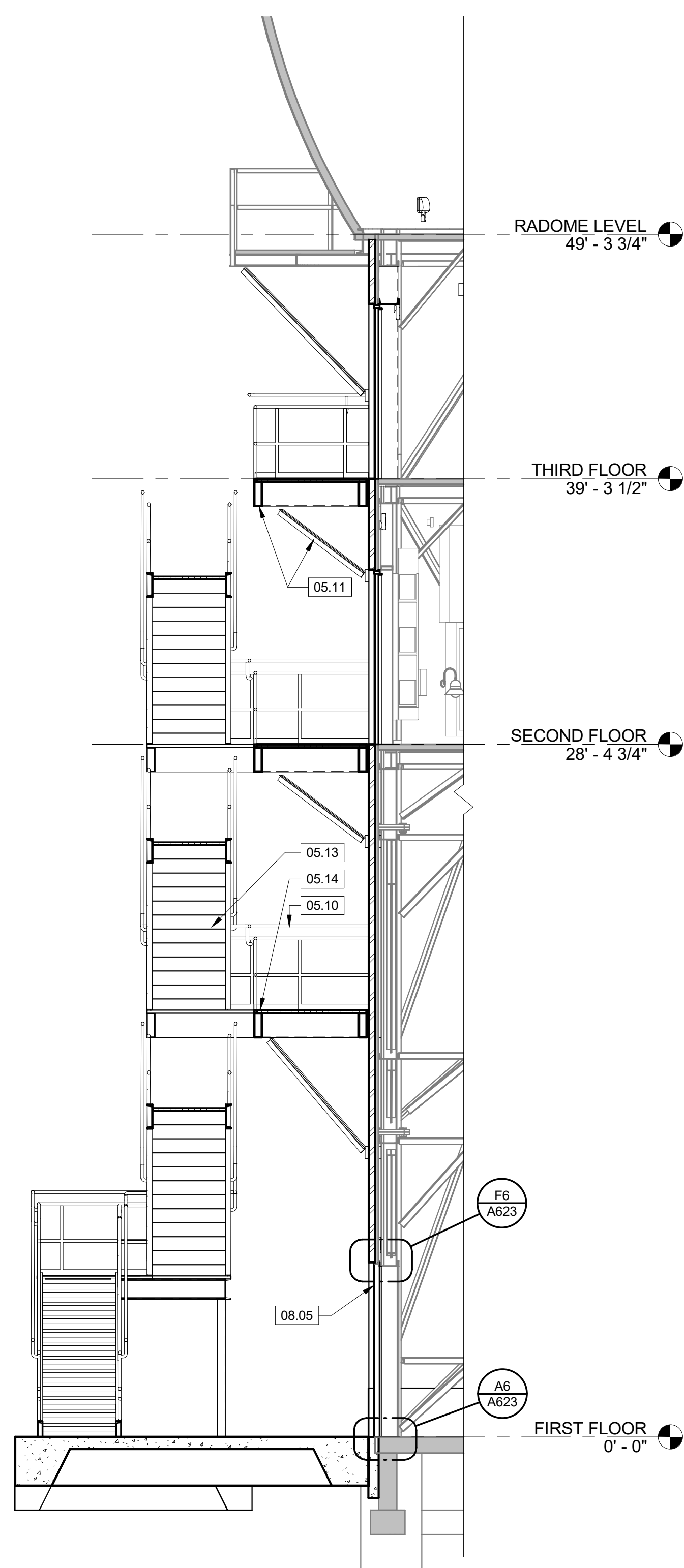
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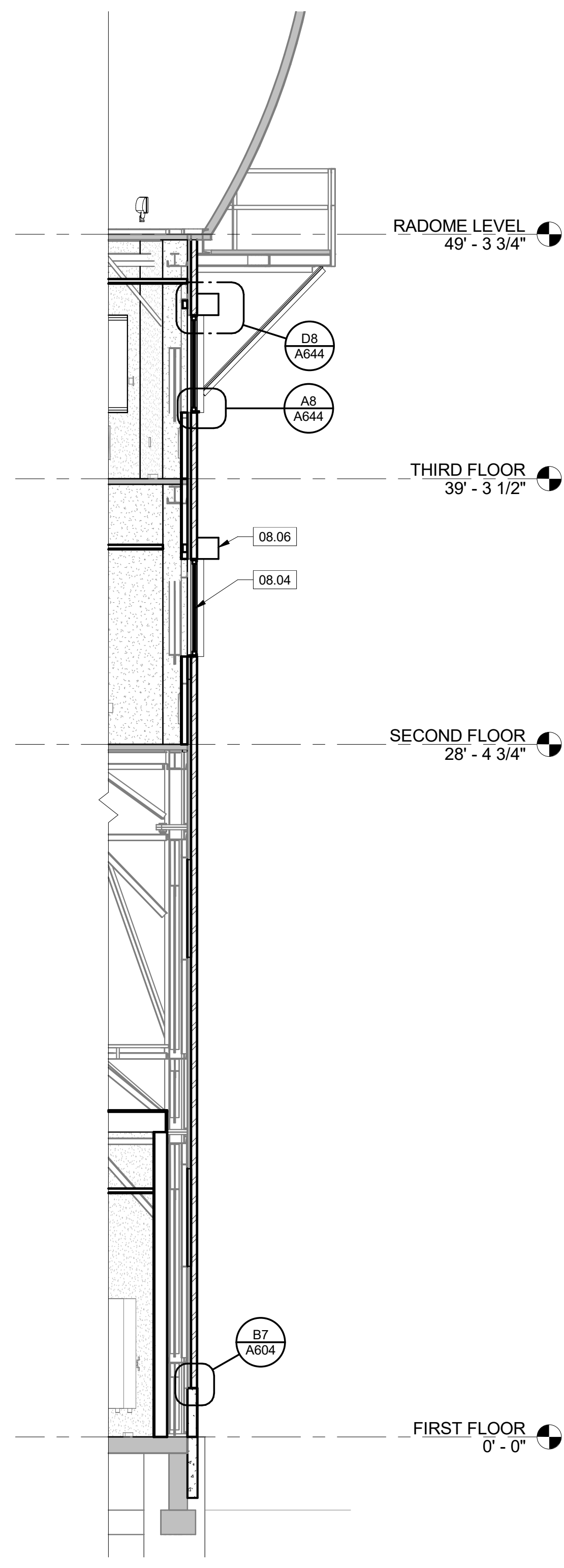
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**A8** WALL SECTION B  
A311 SCALE: 1/4" = 1'-0"



**A6** WALL SECTION - A  
A311 SCALE: 1/4" = 1'-0"

1/4"=1'-0"

## GENERAL NOTES

## KEYNOTES

05.10	(N) 1 1/2" STEEL TUBE RAILING
05.11	(N) STRUCTURAL FRAMING; SEE STRUCTURAL
05.13	(N) BAR GRATING STAIR
05.14	(N) BAR GRATING LANDING
08.04	(N) EXTERIOR WINDOW; SEE SHEET A-641 WINDOW SCHEDULE
08.05	(N) EXTERIOR DOOR
08.06	(N) ROLL DOWN HURRICANE SHUTTER

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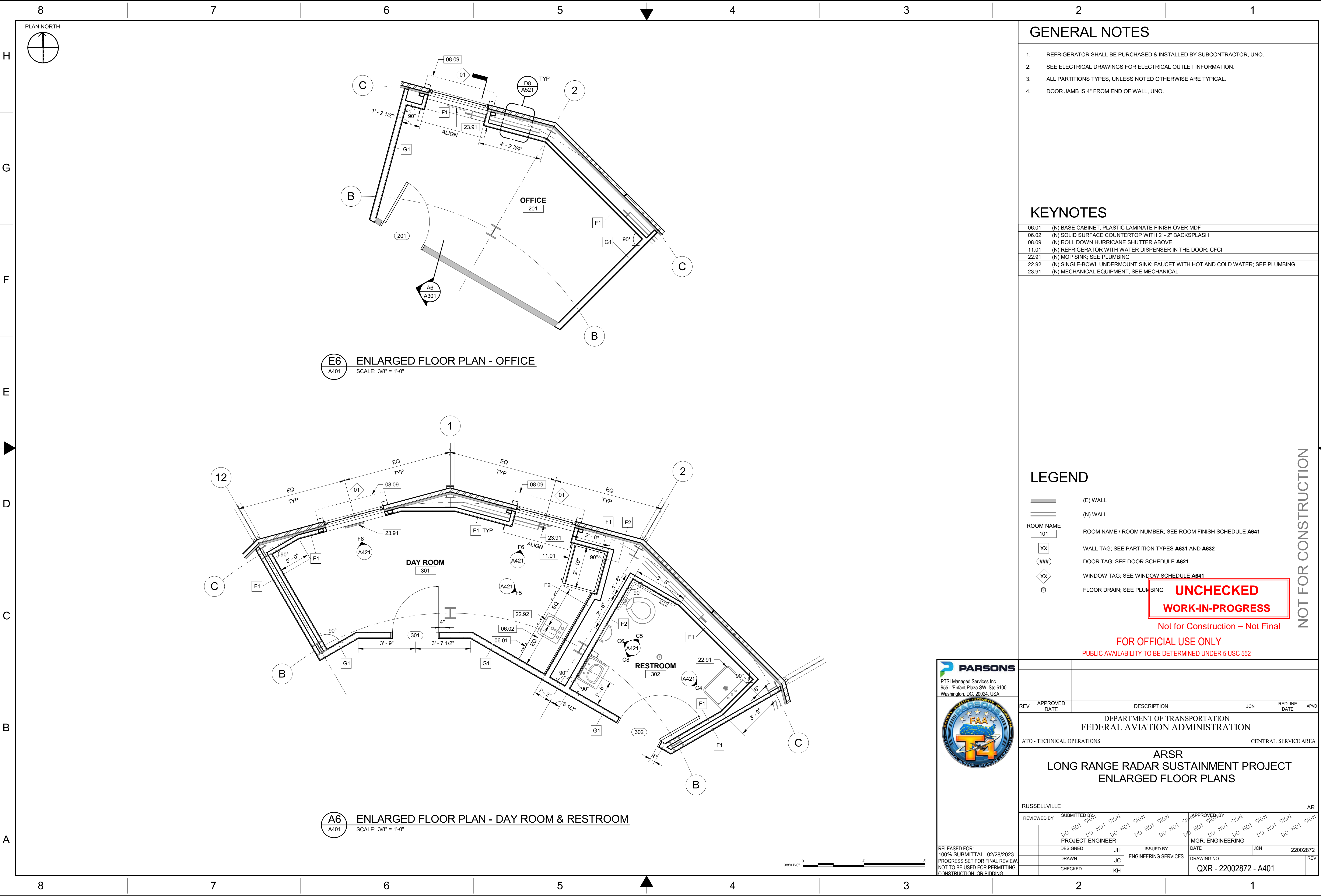
PTSI Managed Services Inc.  
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Washington, DC, 20024, USA



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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION									
ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR  LONG RANGE RADAR SUSTAINMENT PROJECT WALL SECTIONS									
RUSSELLVILLE									
REVIEWED BY		SUBMITTED BY				APPROVED BY			
PROJECT ENGINEER					MGR: ENGINEERING				
DESIGNED		JH	ISSUED BY		DATE		JCN	2200287	
DRAWN		JC	ENGINEERING SERVICES		DRAWING NO		R		
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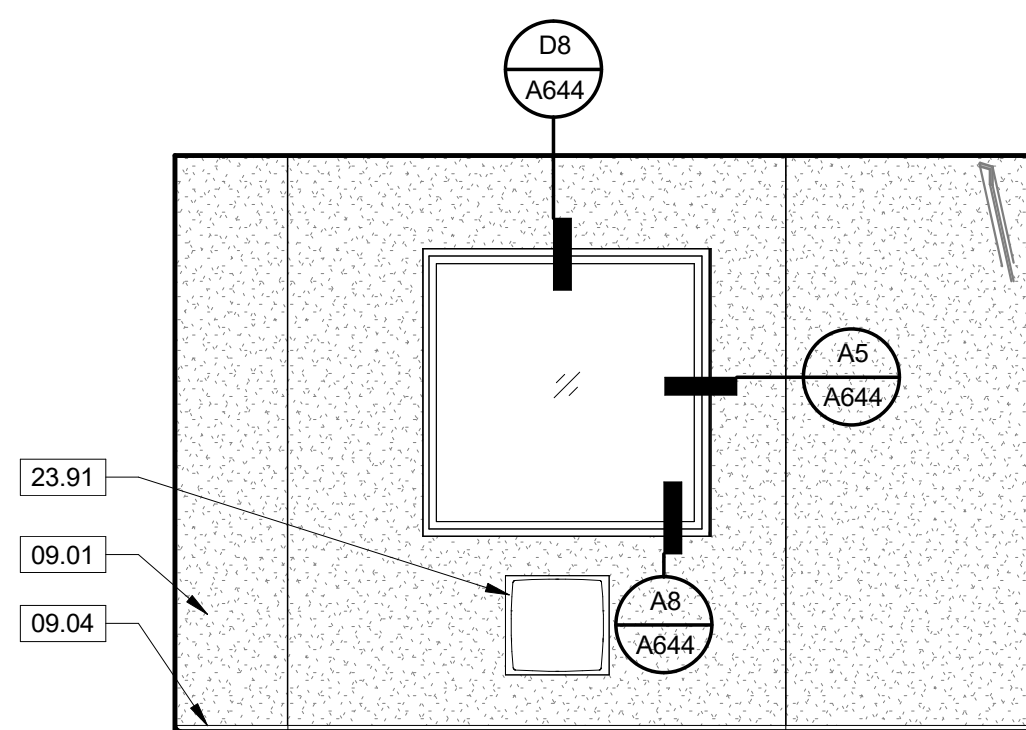
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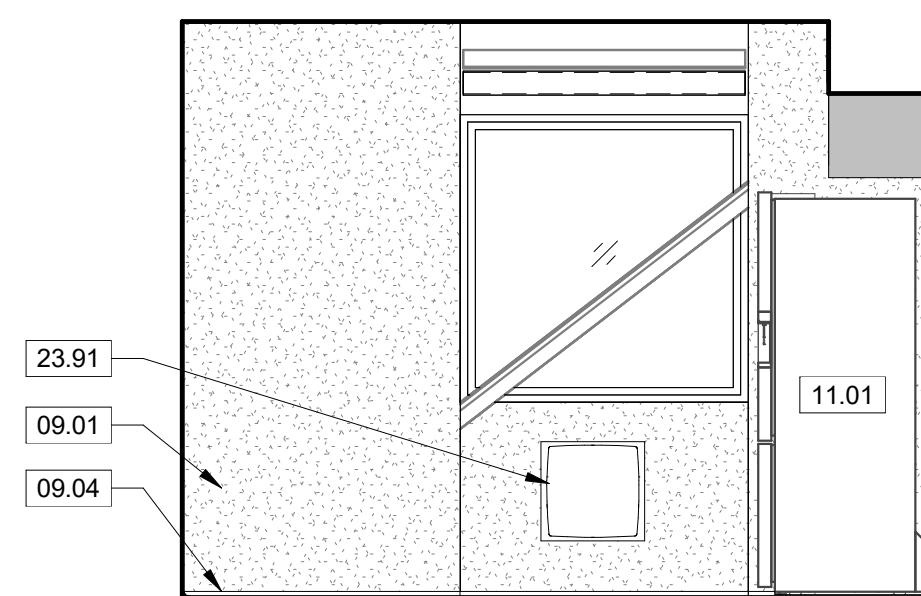
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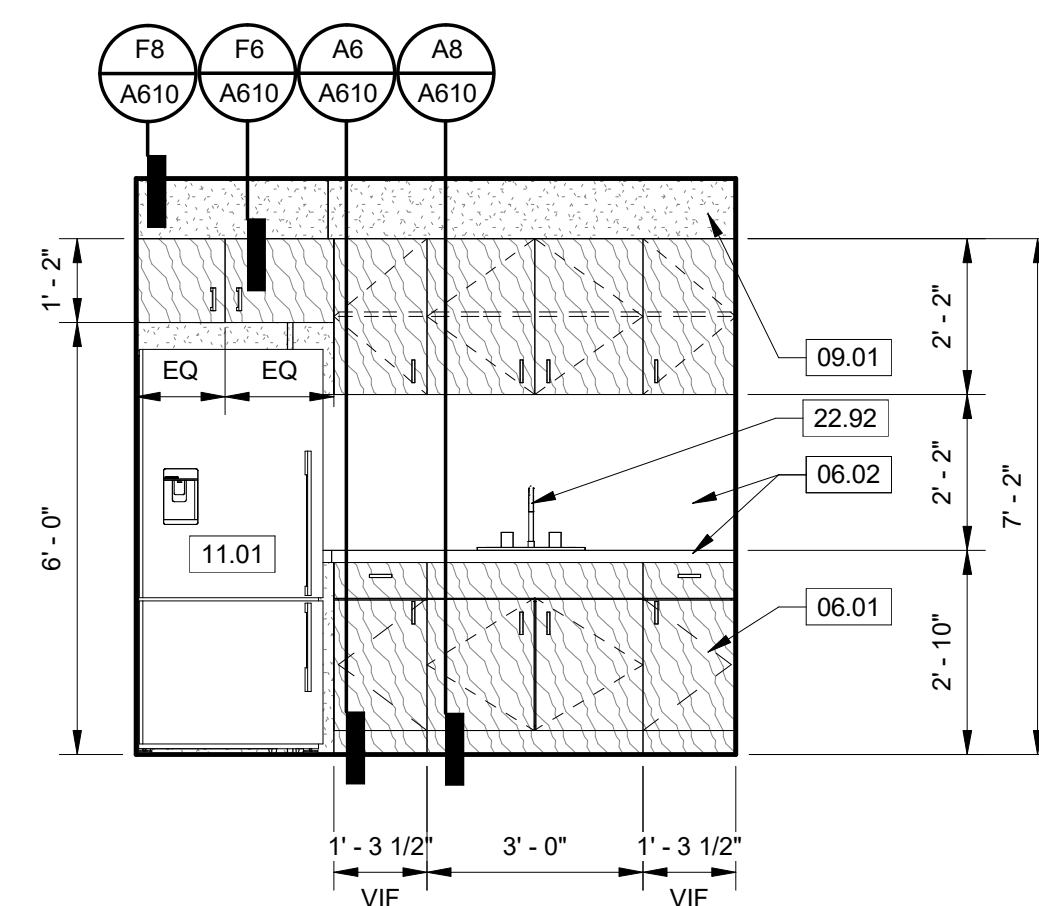
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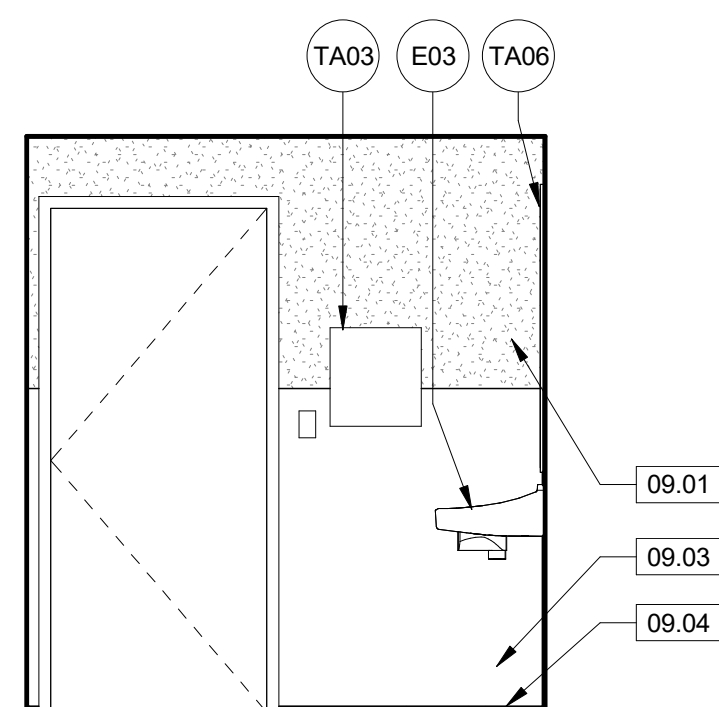
**F8** DAY ROOM ELEV - A  
A421 SCALE: 3/8" = 1'-0"



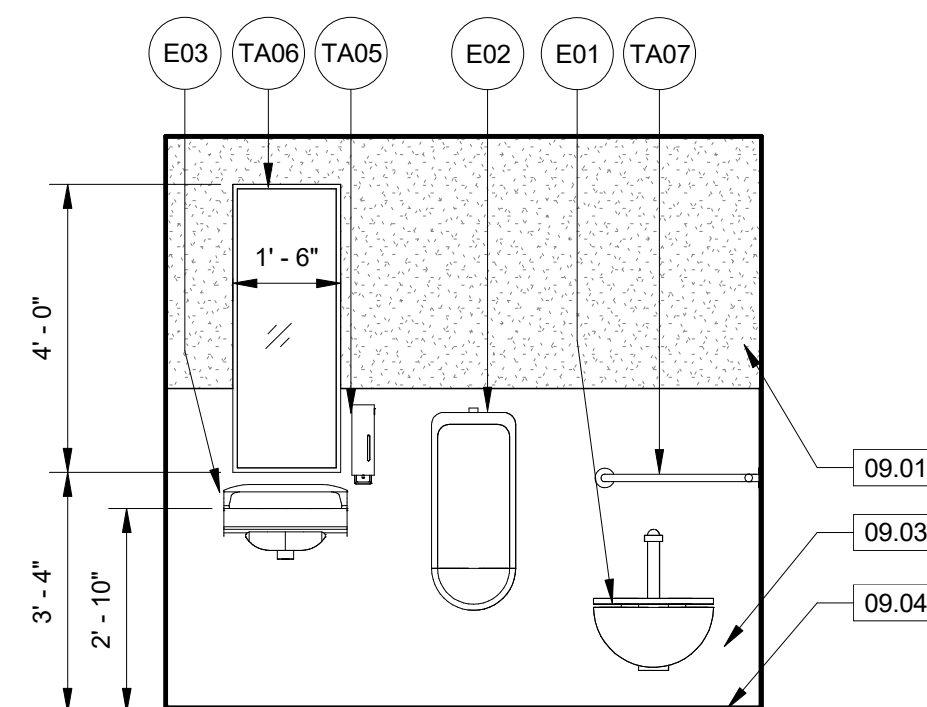
**F6** DAY ROOM ELEV - B  
A421 SCALE: 3/8" = 1'-0"



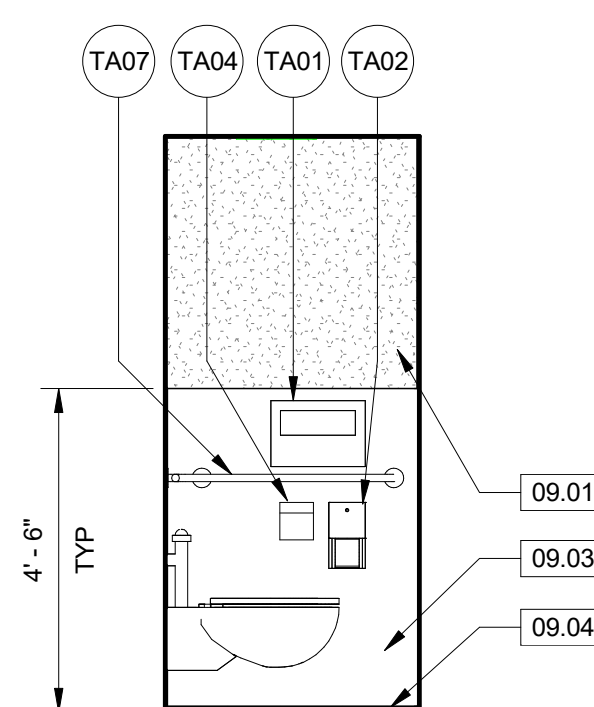
**F5** DAY ROOM ELEV - C  
A421 SCALE: 3/8" = 1'-0"



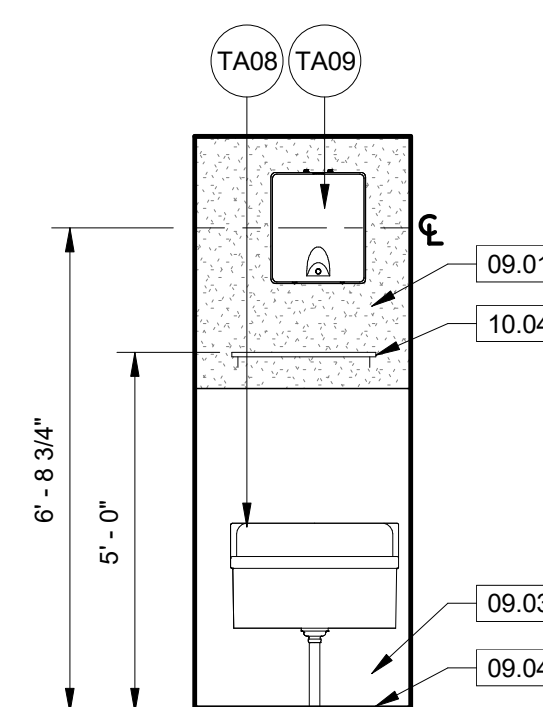
**C8** RESTROOM ELEV - A  
A421 SCALE: 3/8" = 1'-0"



**C6** RESTROOM ELEV - B  
A421 SCALE: 3/8" = 1'-0"



**C5** RESTROOM ELEV - C  
A421 SCALE: 3/8" = 1'-0"



**C4** RESTROOM ELEV - D  
A421 SCALE: 3/8" = 1'-0"

## GENERAL NOTES

1. USE IMPACT/MOLD RESISTANT GYPSUM BOARD THROUGHOUT THE BUILDING

## KEYNOTES

06.01	(N) BASE CABINET, PLASTIC LAMINATE FINISH OVER MDF
06.02	(N) SOLID SURFACE COUNTERTOP WITH 2" - 2" BACKSPLASH
09.01	(N) GYPSUM BOARD WITH PAINT; SEE SHEET A641 FOR FINISH SCHEDULE AND FINISH KEY
09.03	(N) LIQUID EPOXY; SEE SHEET A641 FOR FINISH SCHEDULE AND FINISH KEY
09.04	(N) LIQUID EPOXY FLOOR BASE; SEE SHEET A641 FINISH SCHEDULE AND FINISH KEY
10.04	(N) SS SERVICE SHELF; 24"
11.01	(N) REFRIGERATOR WITH WATER DISPENSER IN THE DOOR; CFCI
22.92	(N) SINGLE-BOWL UNDERMOUNT SINK; FAUCET WITH HOT AND COLD WATER; SEE PLUMBING
23.91	(N) MECHANICAL EQUIPMENT; SEE MECHANICAL

## TOILET ACCESSORIES AND EQUIPMENT

E01	WALL MOUNTED WATER CLOSET WITH EXPOSED LOW-FLUSH VALVE. BLACK OPEN FRONT SEAT
E02	WALL MOUNTED BARRIER FREE URINAL WITH EXPOSED LOW-FLUSH VALVES
E03	LAVATORY
TA01	SURFACE MOUNTED TOILET SEAT COVER DISPENSER
TA02	SURFACE MOUNTED TOILET TISSUE DISPENSER
TA03	WALL MOUNTED DOUBLE ROW PAPER TOWEL DISPENSER
TA04	SANITARY NAPKIN DISPENSER AND DISPOSAL UNIT, SURFACE MOUNTED
TA05	SURFACE MOUNTED HAND SOAP DISPENSER
TA06	MIRROR
TA07	1-1/2" DIAMETER TWO-WALL TOILET GRAB BAR, 36" x 24"
TA08	MOP SINK
TA09	POINT OF USE WATER HEATER. 7 GAL TANK

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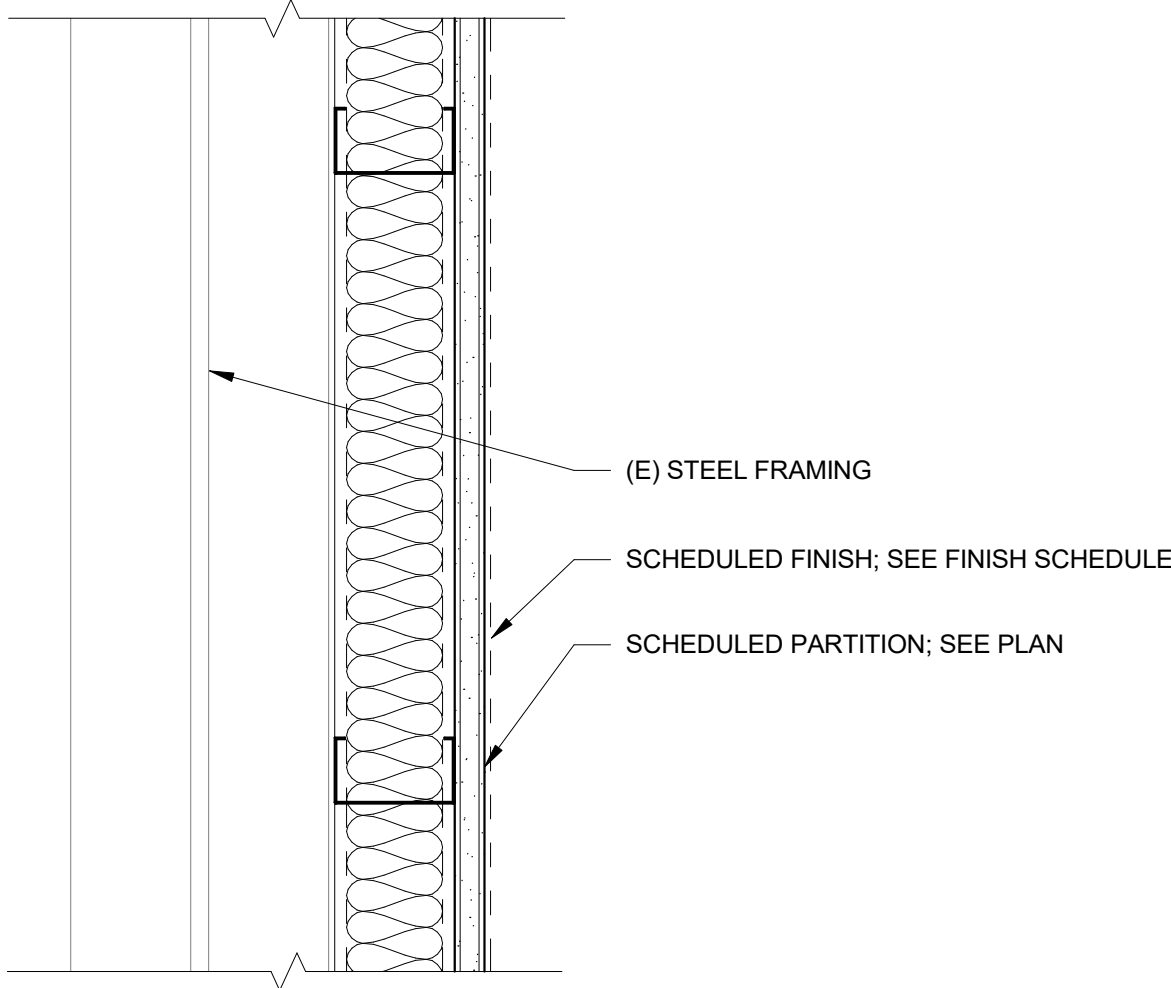
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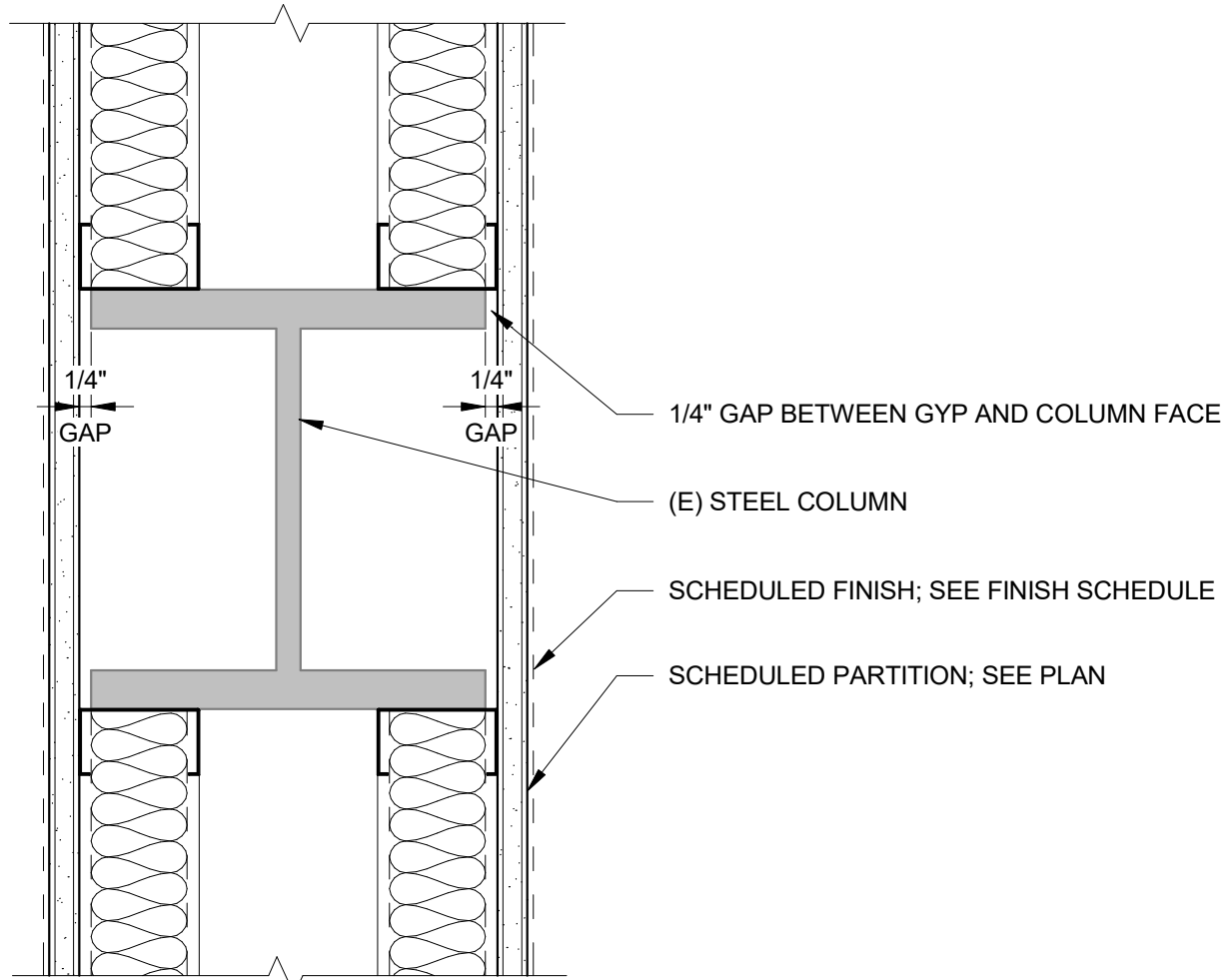
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**D8** (E) FRAMING PARALLEL (N) PARTITION  
A521 SCALE: 3" = 1'-0"



**A8** (E) COLUMN AT (N) PARTITION  
A521 SCALE: 3" = 1'-0"

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Washington, DC, 20024, USA

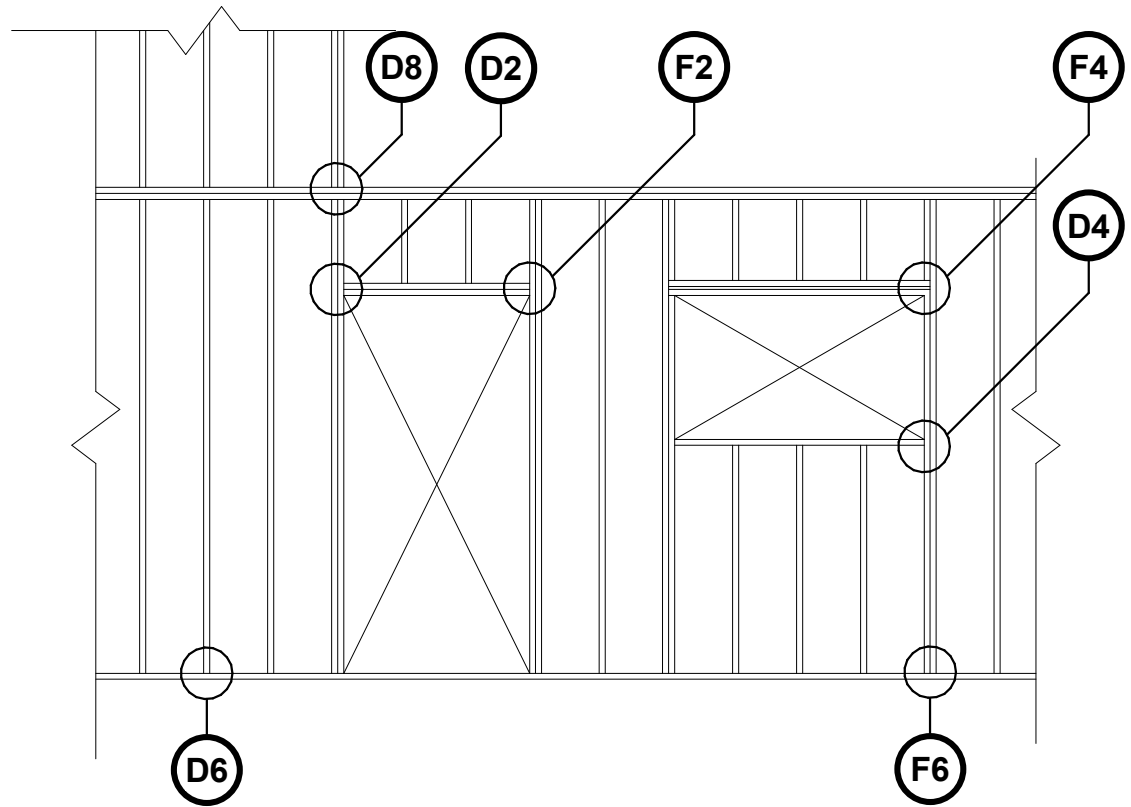


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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION									
ATO - TECHNICAL OPERATIONS					CENTRAL SERVICE AREA				
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT PLAN DETAILS									
RUSSELLVILLE									
REVIEWED BY		SUBMITTED BY		APPROVED BY					
				DO NOT SIGN					
PROJECT ENGINEER		MGR: ENGINEERING		DO NOT SIGN					
DESIGNED JH		ISSUED BY		DATE		JCN		22002872	
DRAWN JC		ENGINEERING SERVICES		DRAWING NO		REV			
CHECKED KH				QXR - 22002872 - A521					

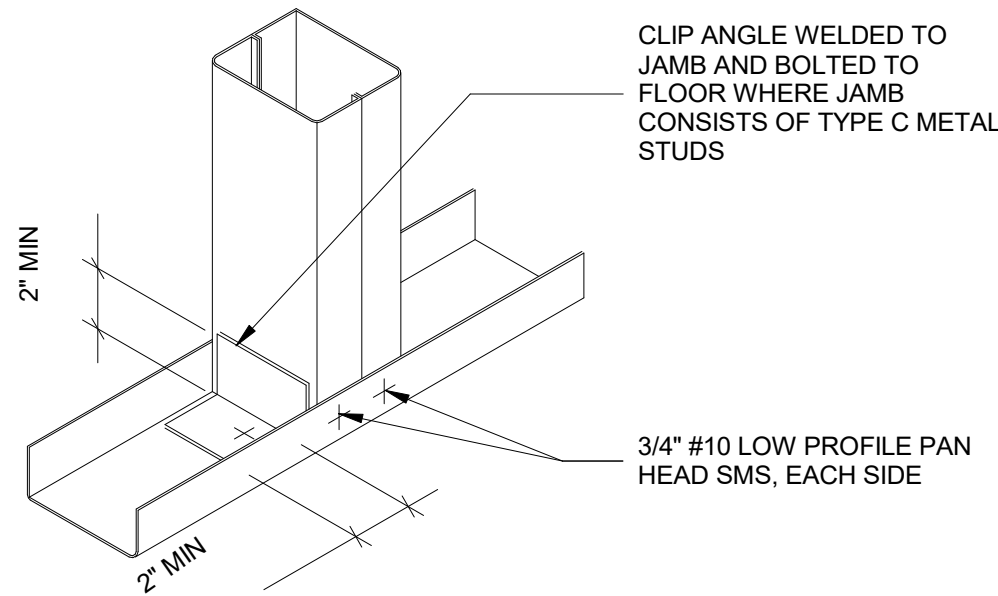


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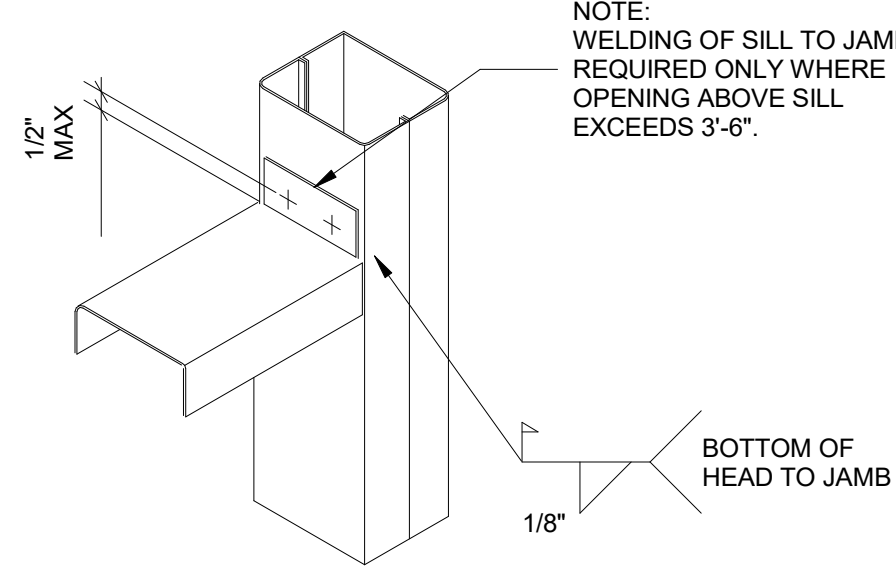


INTERIOR FRAMING ELEVATION  
NOTE:  
FOR ALL METAL STUD FRAMING, ISOLATE FRAMING FROM TRANSFER OF  
STRUCTURAL LOADING TO FRAMING.

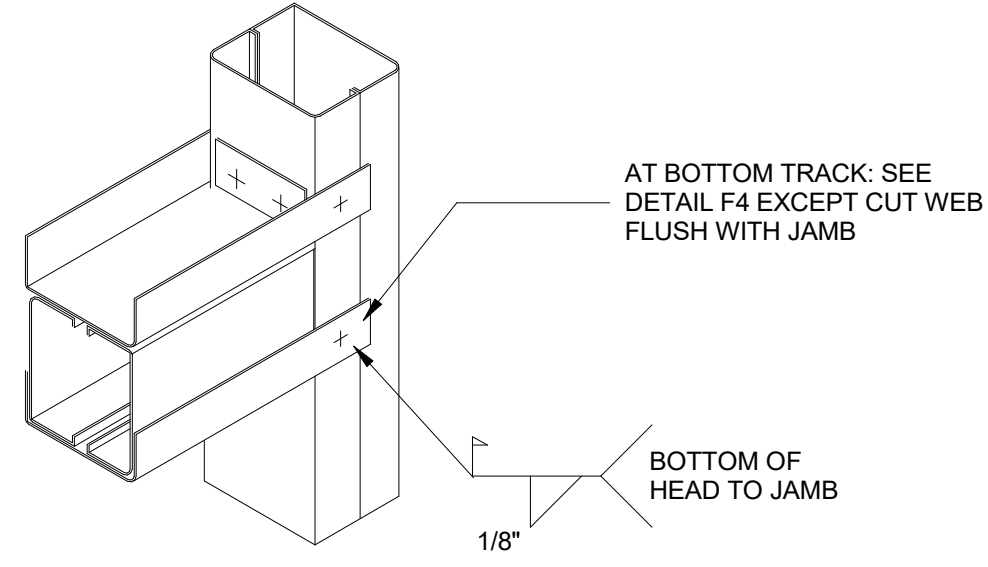
F8 FRAMING ELEVATION - INTERIOR  
A601 NOT TO SCALE



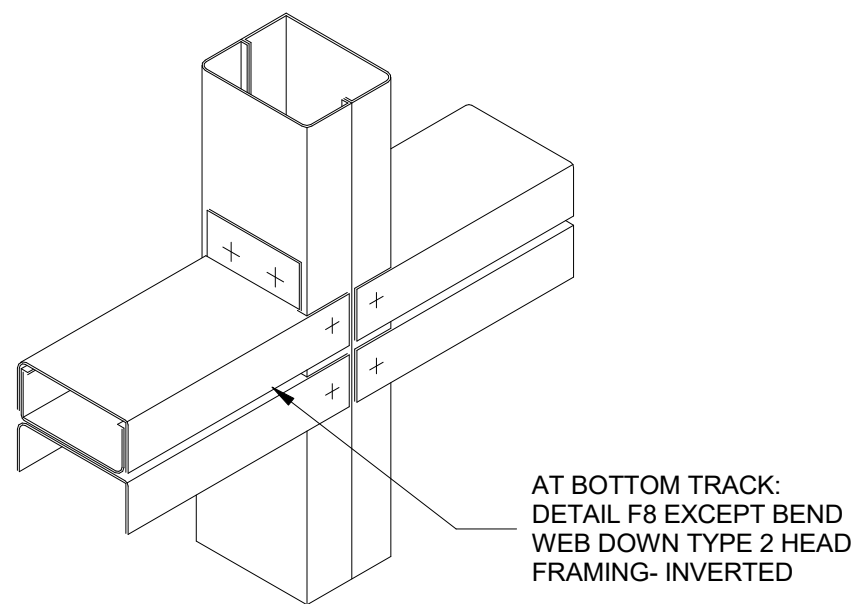
F6 DOUBLE STUD BOTTOM TRACK DETAIL  
A601 NOT TO SCALE



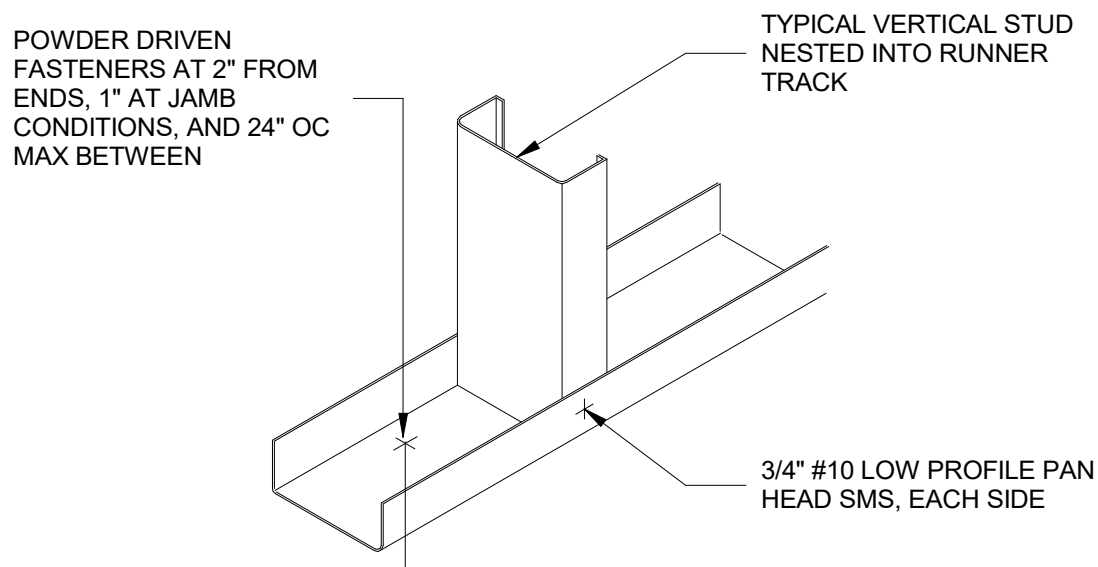
F4 DOUBLE STUD SILL DETAIL  
A601 NOT TO SCALE



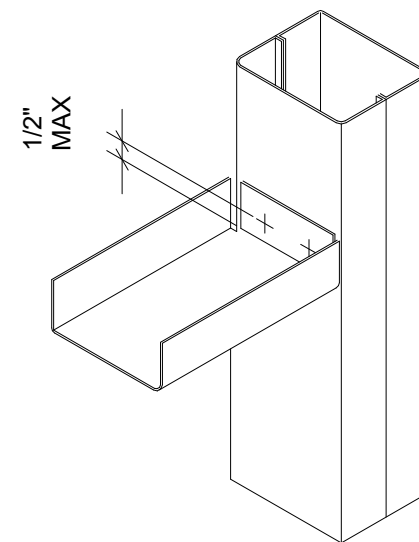
F2 DOUBLE STUD HEAD DETAIL B  
A601 NOT TO SCALE



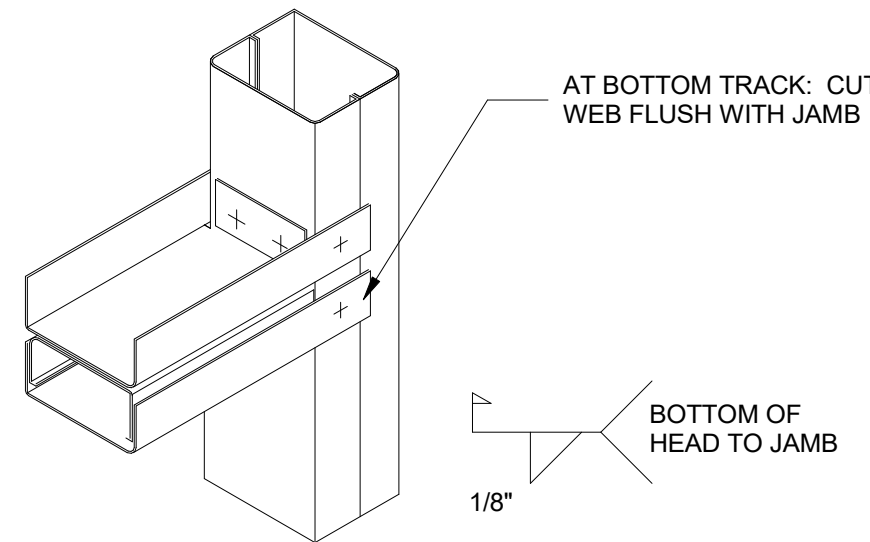
D8 FRAMING DETAIL - COLUMN STUDS  
A601 NOT TO SCALE



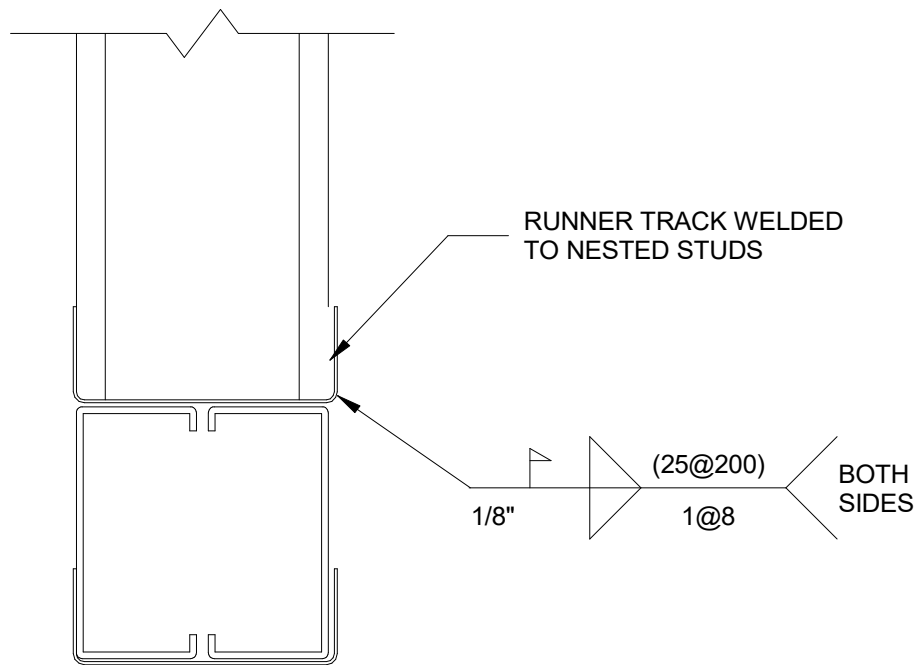
D6 SINGLE STUD BOTTOM TRACK DETAIL  
A601 NOT TO SCALE



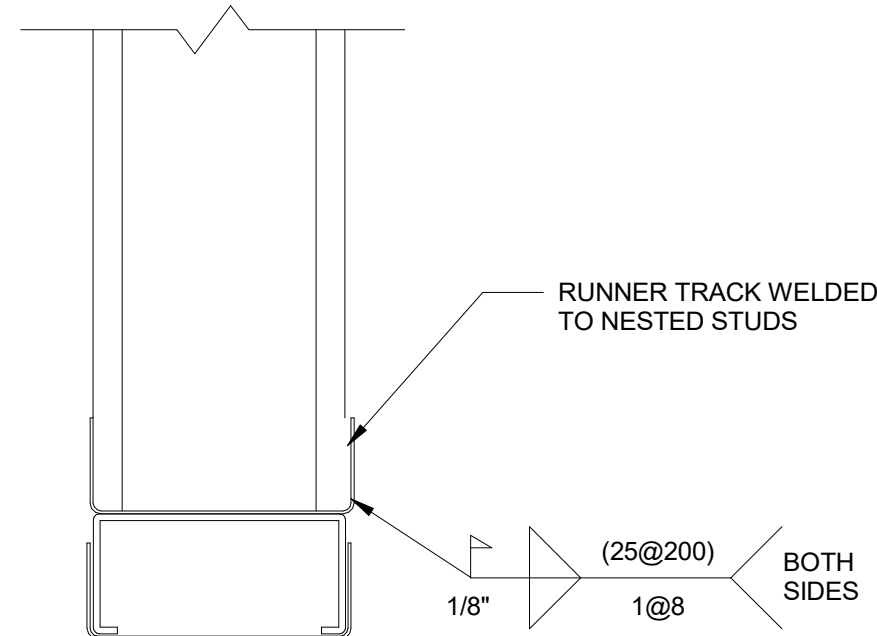
D4 SINGLE STUD HEAD DETAIL  
A601 NOT TO SCALE



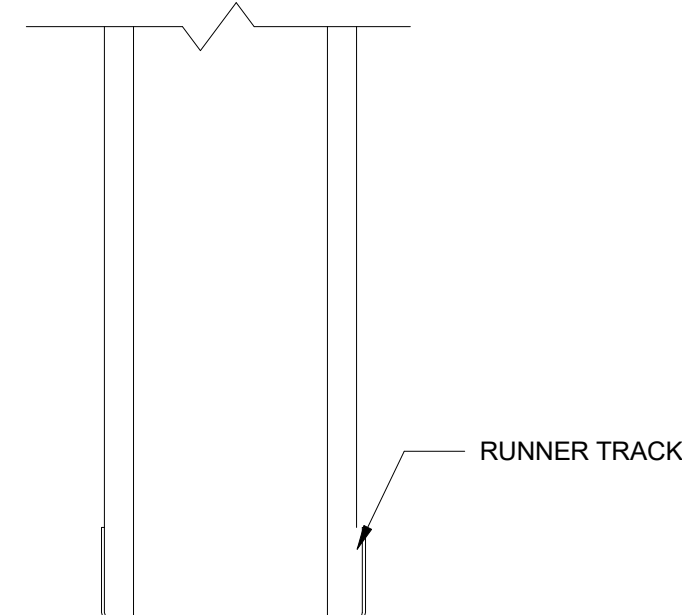
D2 DOUBLE STUD HEAD DETAIL A  
A601 NOT TO SCALE



A8 HEAD OPENING DET C  
A601 NOT TO SCALE



A6 HEAD OPENING DETAIL B  
A601 NOT TO SCALE



A4 HEAD OPENING DETAIL A  
A601 NOT TO SCALE

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA					
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT PARTITION FRAMING DETAILS					
RUSSELLVILLE AR					
REVIEWED BY	SUBMITTED BY	DESIGNED	ISSUED BY	MGR: ENGINEERING	DATE
		JH	JC		22002872
		DRAWN	ENGINEERING SERVICES	DRAWING NO	JCN
		CHECKED		QXR - 22002872 - A601	REV
RELEASED FOR: 100% SUBMITTAL 02/28/2023 PROGRESS SET FOR FINAL REVIEW NOT TO BE USED FOR PERMITTING, CONSTRUCTION, OR BIDDING					

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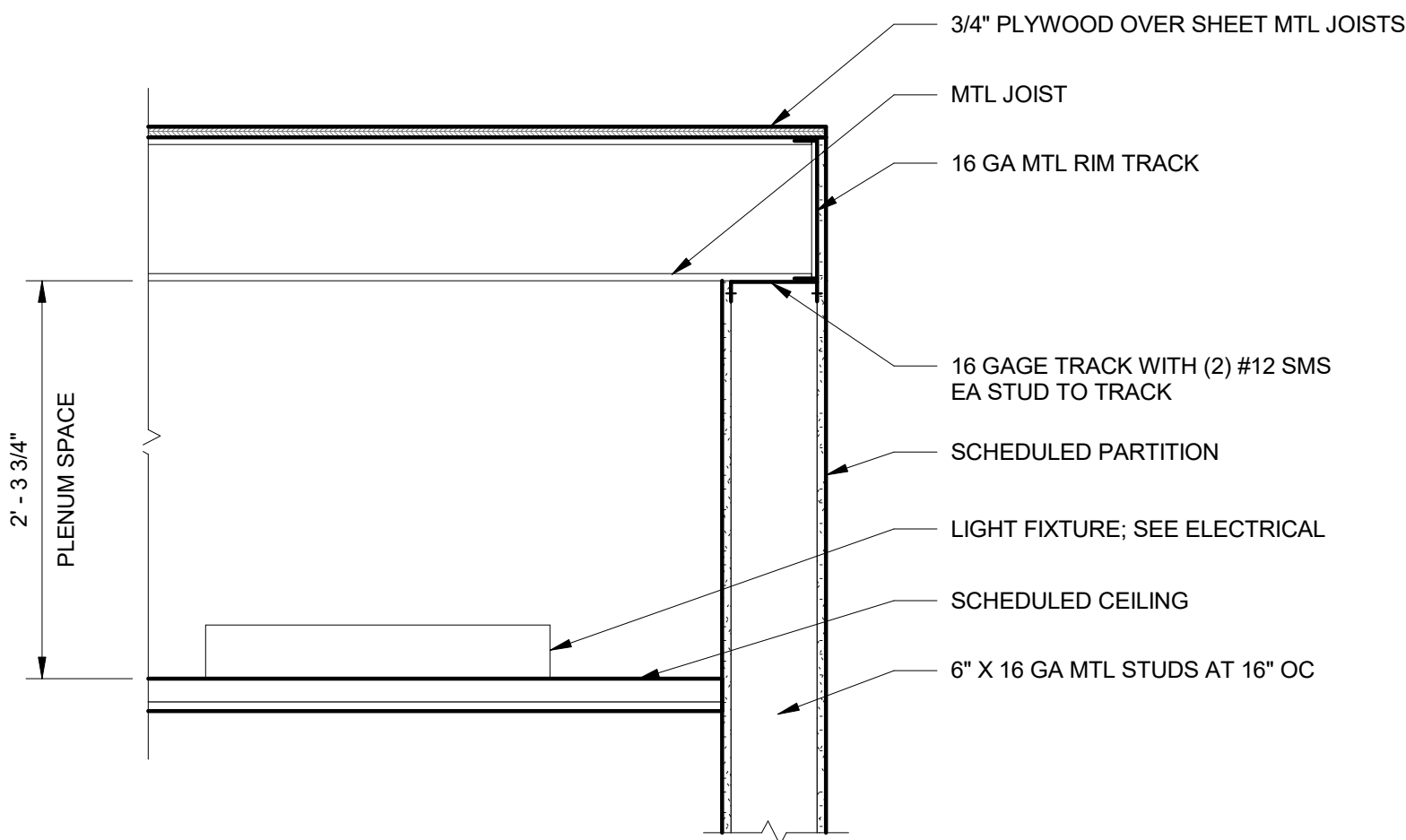
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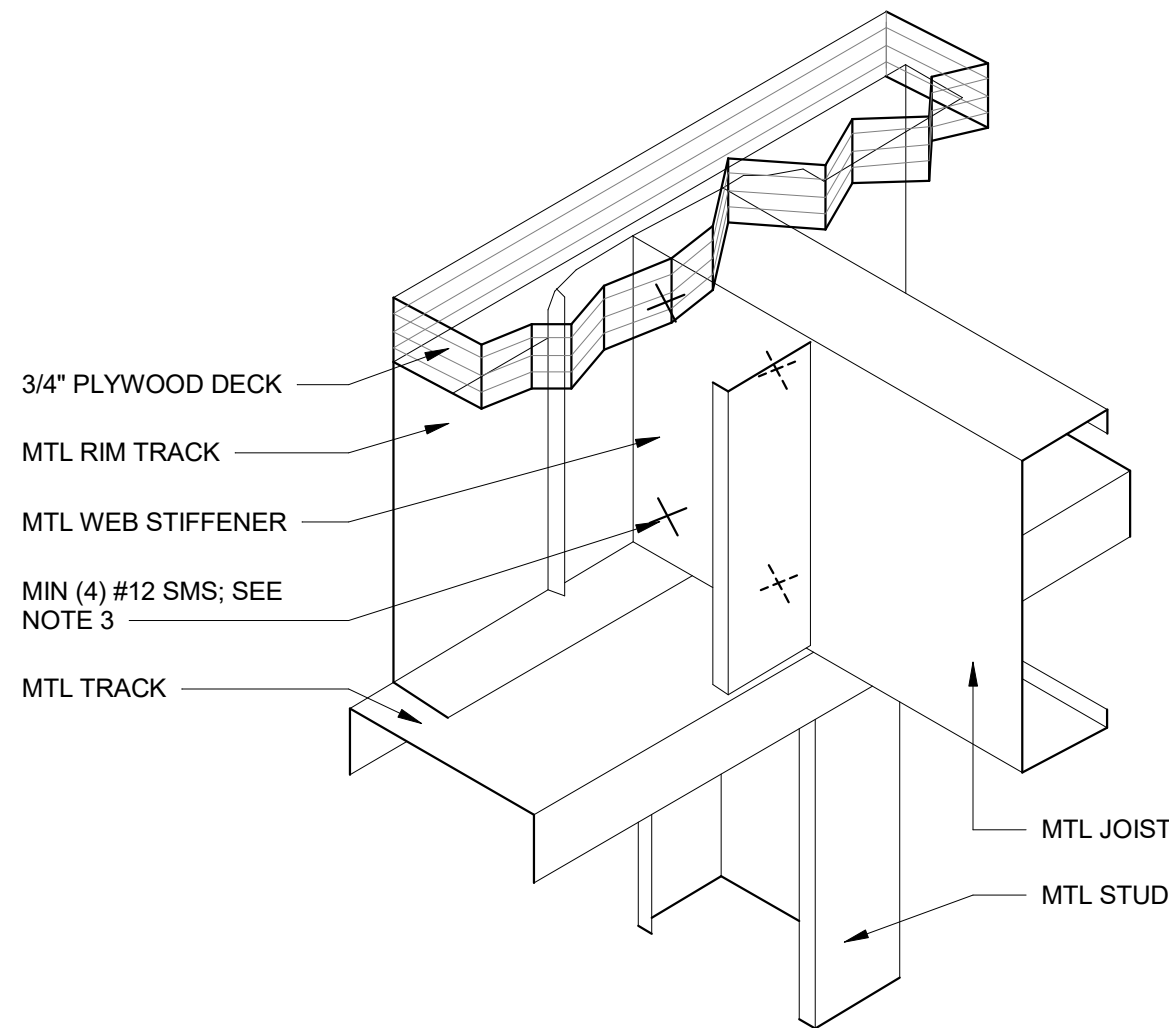




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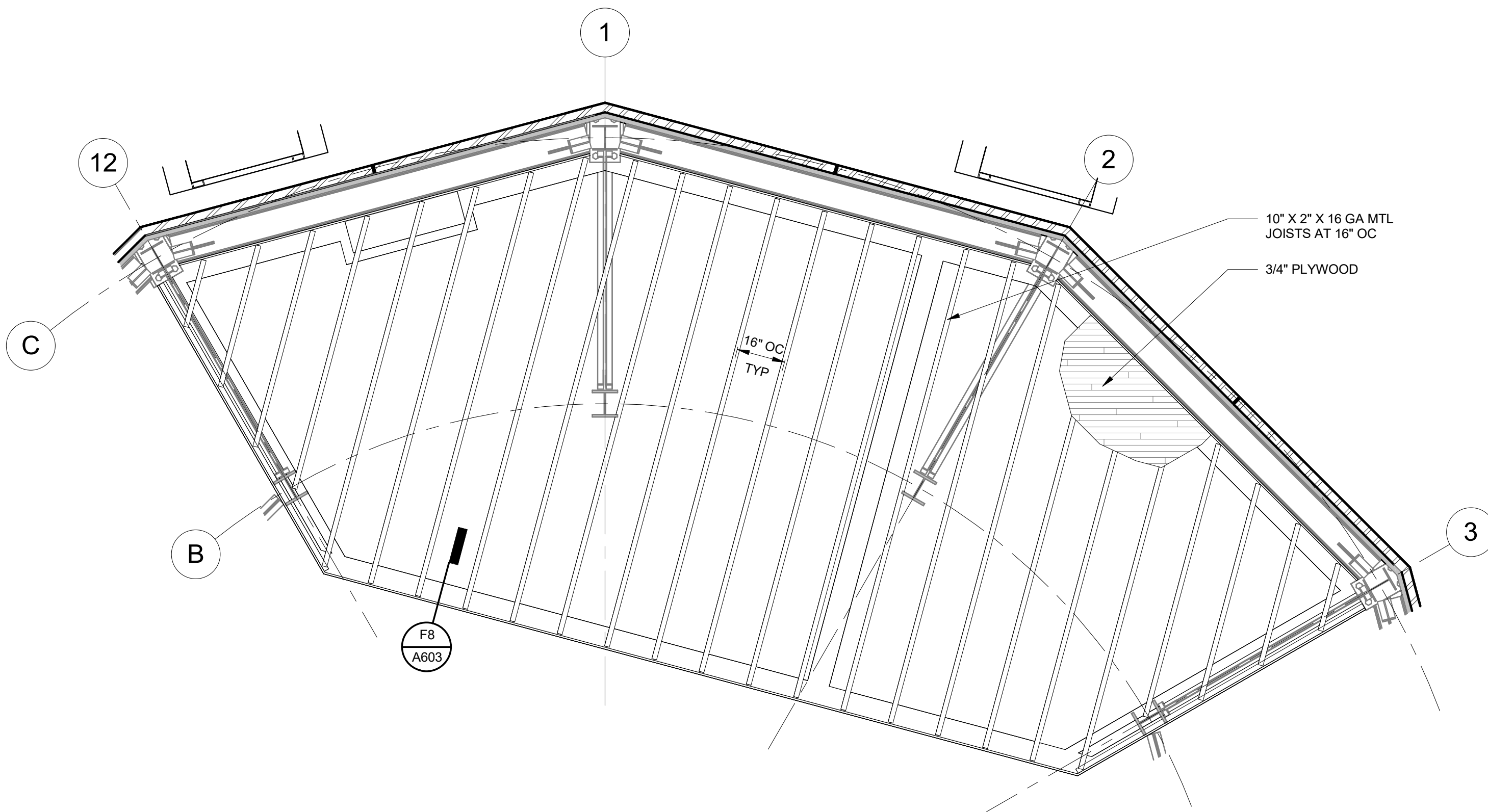


**F8**  
A603  
**BATTERY ROOM 101 - FRAMING DETAIL - SECTION**  
SCALE: 1" = 1'-0"

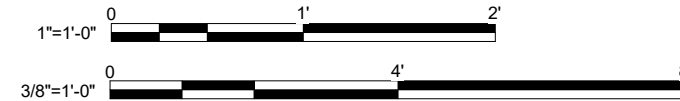


**NOTE:**  
ALL FASTENERS ARE NOT SHOWN FOR CLARITY, REFER TO NOTE 2.

**F5**  
A603  
**BATTERY ROOM 101 - FRAMING DETAIL - 3D VIEW**  
NOT TO SCALE



**A8**  
A603  
**BATTERY ROOM 101 - CEILING FRAMING - PLAN VIEW**  
SCALE: 3/8" = 1'-0"



## GENERAL NOTES

- SUBCONTRACTOR SHALL SUBMIT LIGHT GAUGE METAL FRAMING SHOP DRAWINGS FOR REVIEW AND APPROVAL, PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE ALL FASTENERS.
- ALL LIGHT GAUGE METAL FRAMING SHALL BE IN CONFORMANCE WITH SPECIFICATION 09 22 16, AND THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), ICC ESR 3046P REQUIREMENTS.
- ALL FASTENER SUBMITTALS SHALL CONTAIN A CURRENT ICC REPORT.

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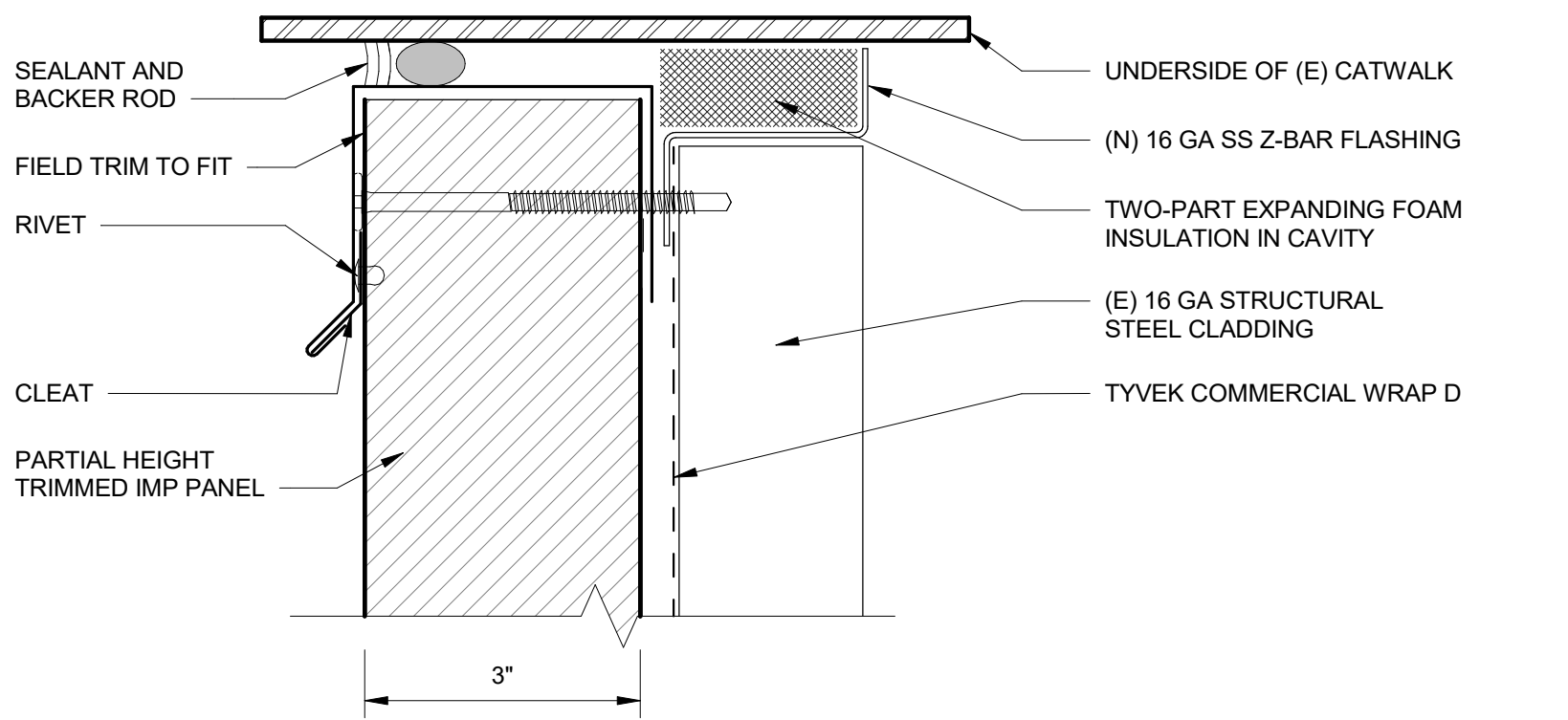
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ARSR LONG RANGE RADAR SUSTAINMENT PROJECT FRAMING DETAILS					
RUSSELLVILLE AR					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
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PROJECT ENGINEER		MGR: ENGINEERING			
DESIGNED	JH	ISSUED BY	DATE	JCN	22002872
DRAWN	JC	ENGINEERING SERVICES	DRAWING NO		
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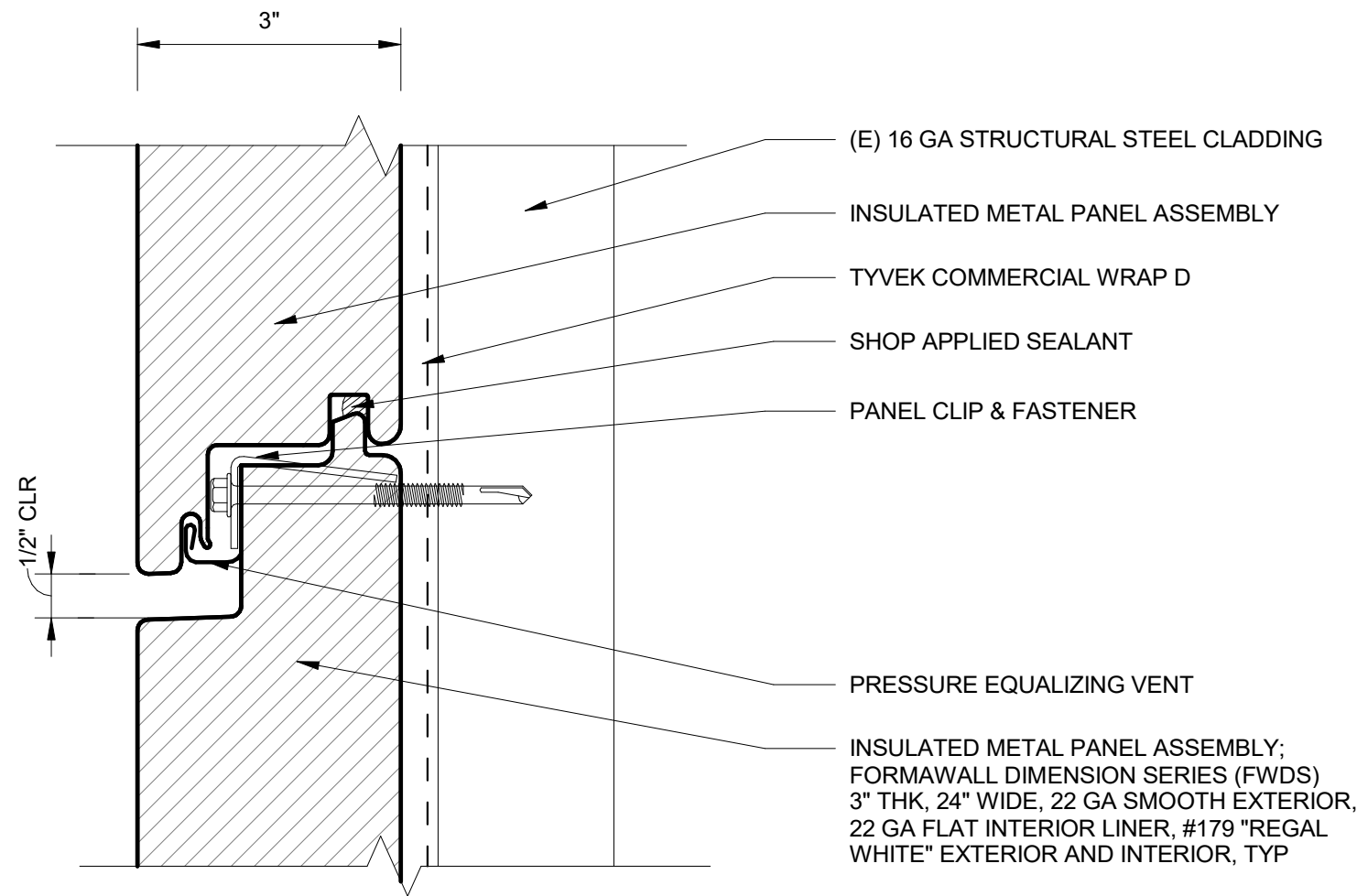
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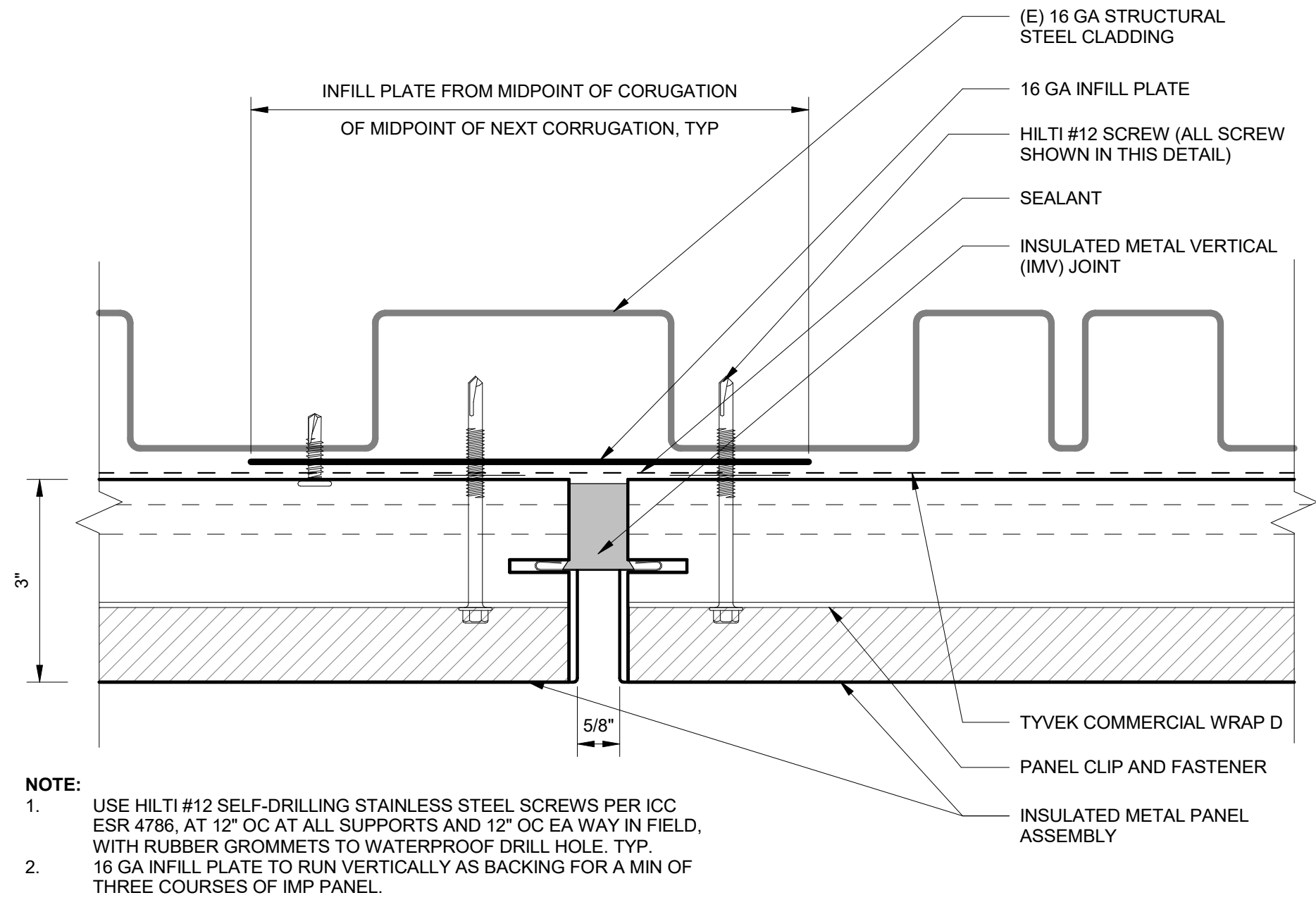
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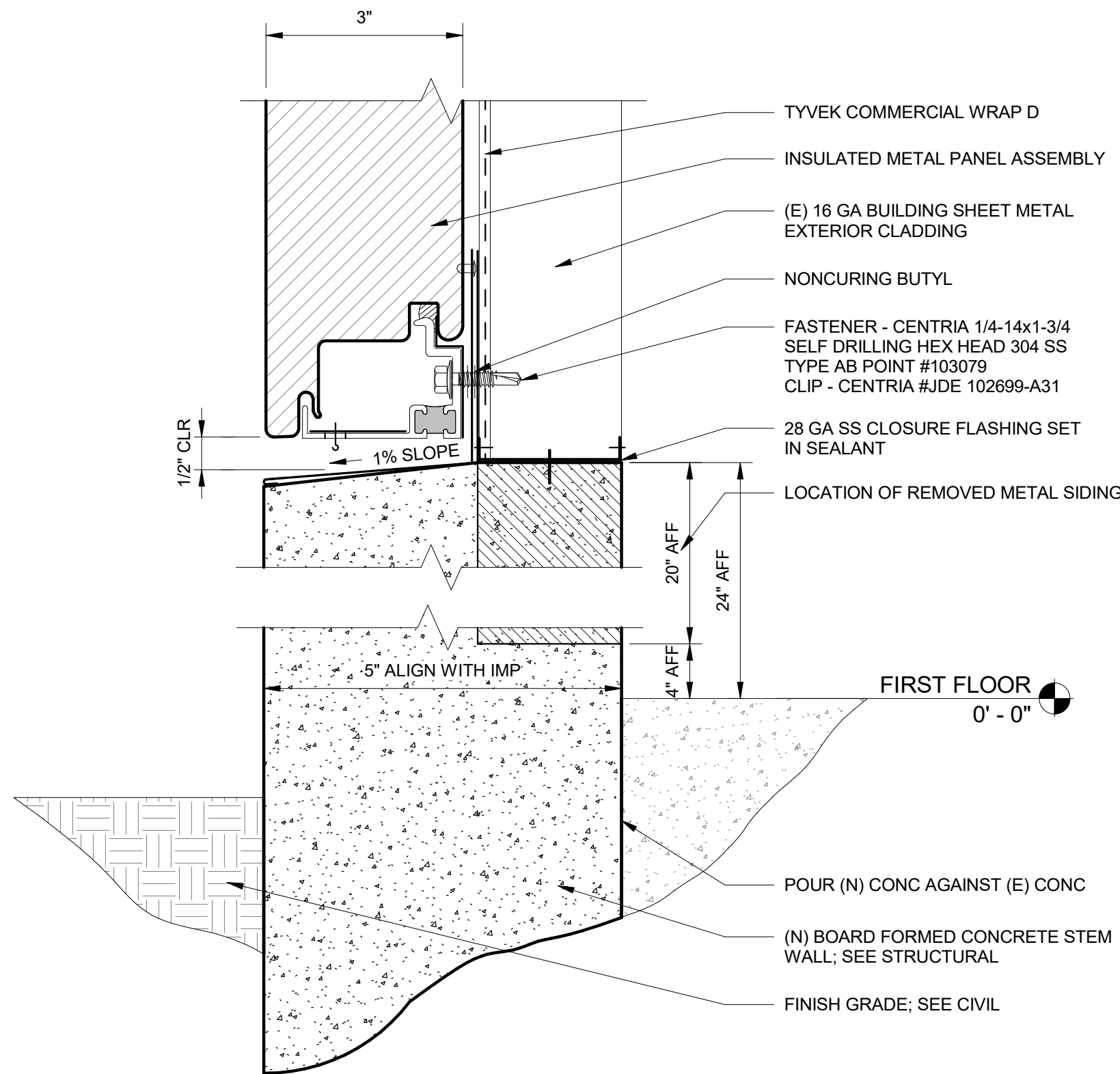
**F7** TOP IMP AT CATWALK  
A604 SCALE: 6" = 1'-0"



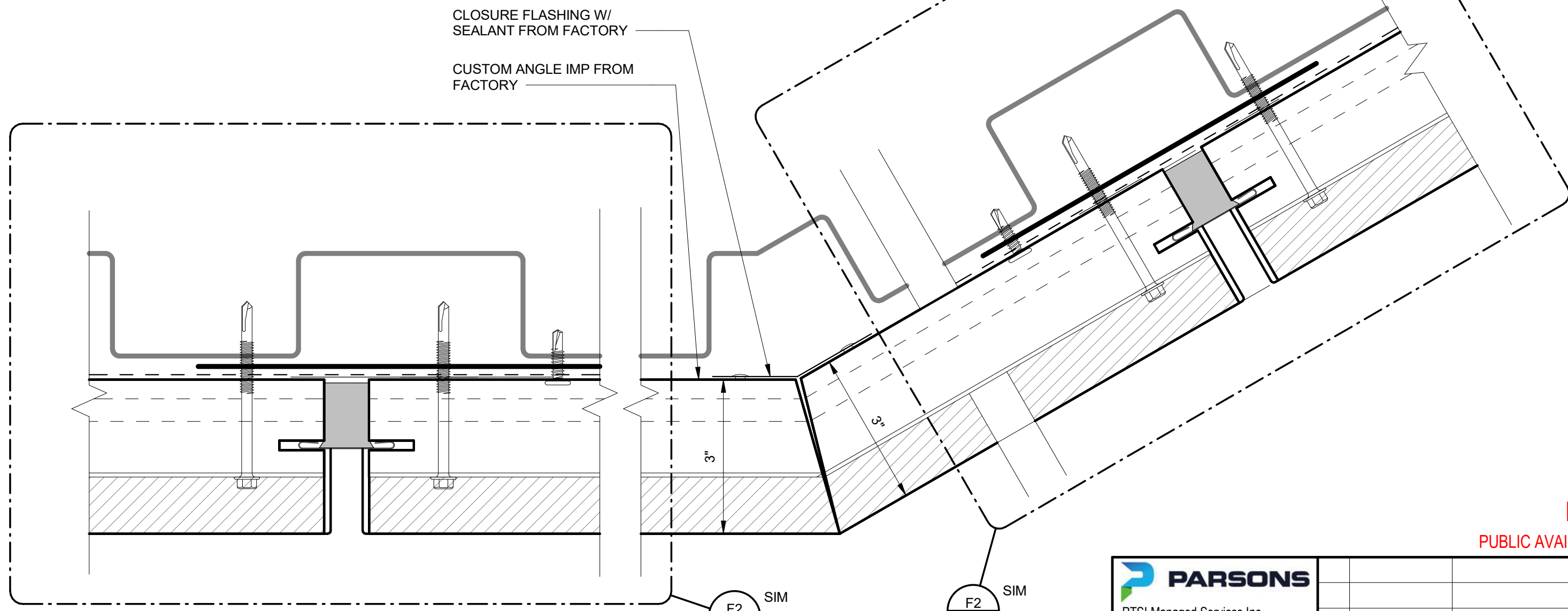
**F5** HORIZONTAL LAP JOINT - TWO IMPs  
A604 SCALE: 6" = 1'-0"



**F2** VERTICAL BUTT JOINT - TWO IMPs  
A604 SCALE: 6" = 1'-0"



**B7** BASE IMP AT CONC WALL  
A604 SCALE: 6" = 1'-0"



**B5** FACTORY PREPARED 150° PANEL BEND  
A604 SCALE: 6" = 1'-0"

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**FAA**  
T4  
TECHNICAL SUPPORT SERVICE CONTRACT

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ARSR LONG RANGE RADAR SUSTAINMENT PROJECT IMP DETAILS					
RUSSELLVILLE			AR		
REVIEWED BY		SUBMITTED BY		APPROVED BY	
PROJECT ENGINEER		MGR: ENGINEERING			
DESIGNED	JH	ISSUED BY		DATE	JCN
DRAWN	JC	ENGINEERING SERVICES		DRAWING NO	22002872
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					REV

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6"=1'-0" 0 3' 6'



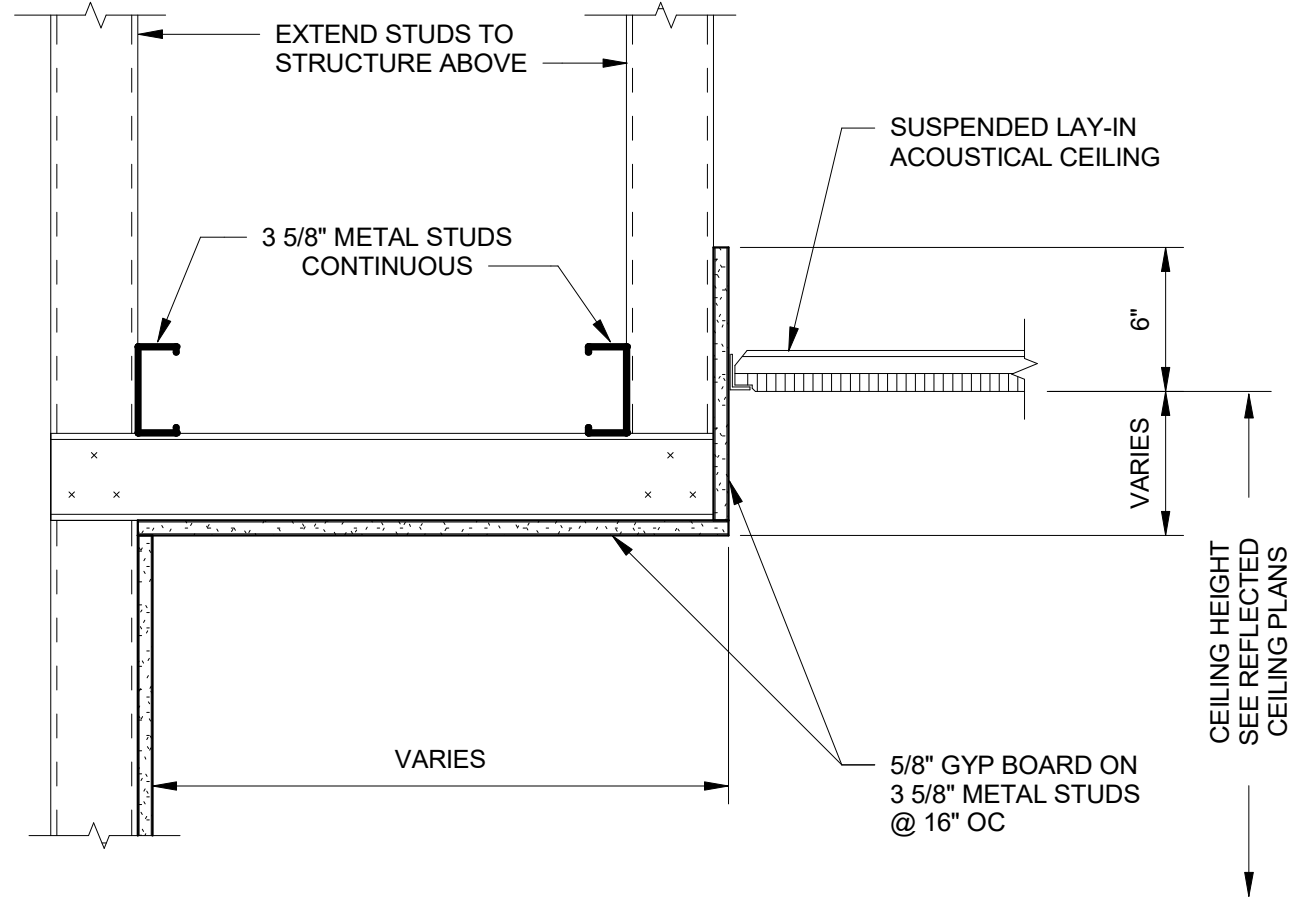




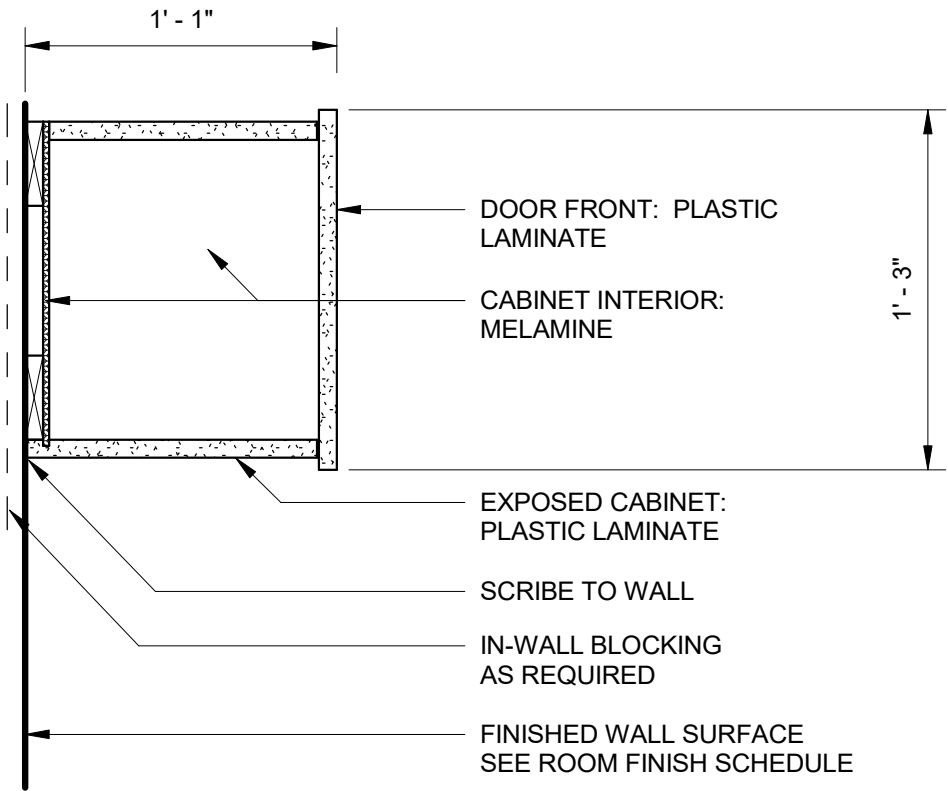




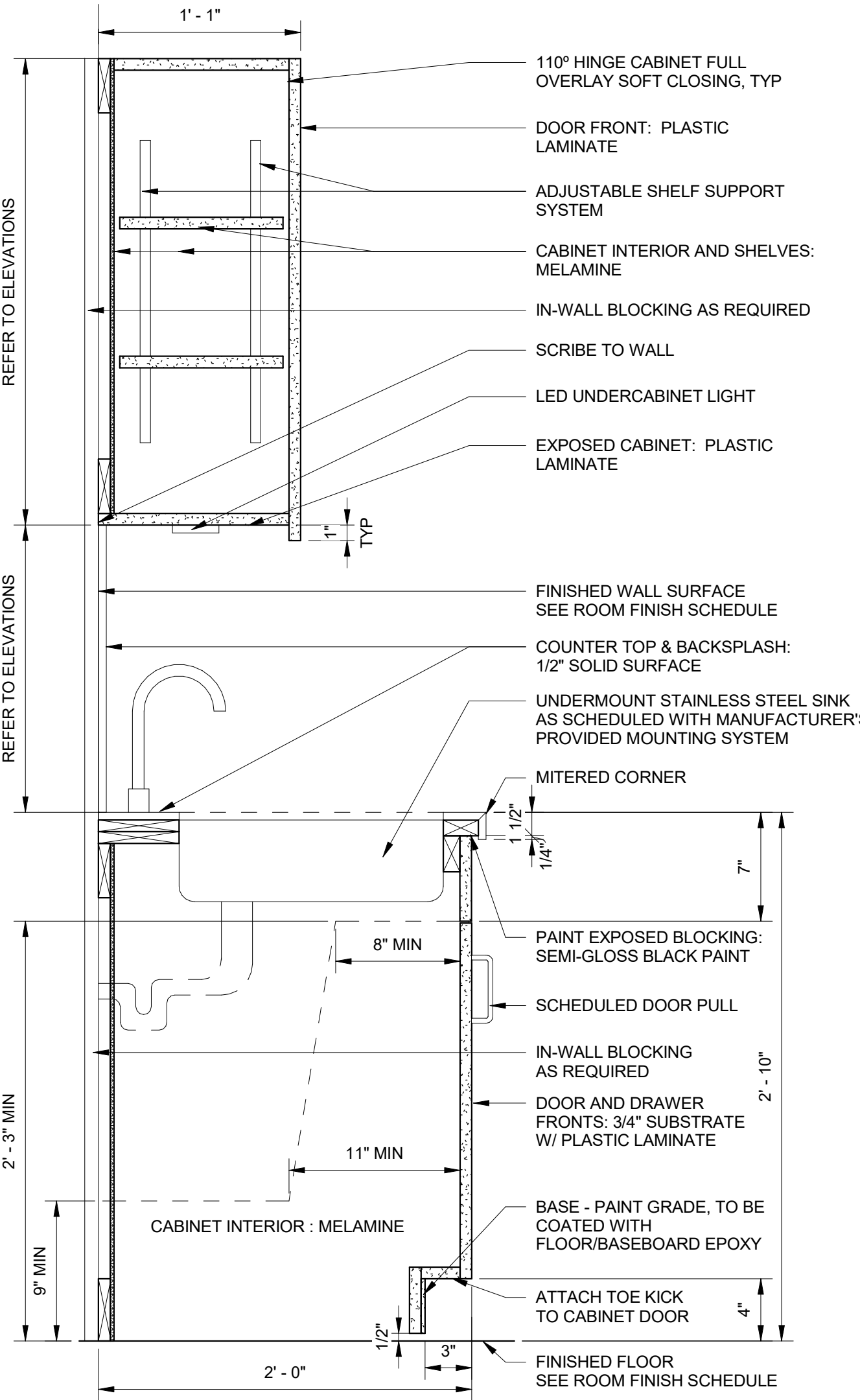
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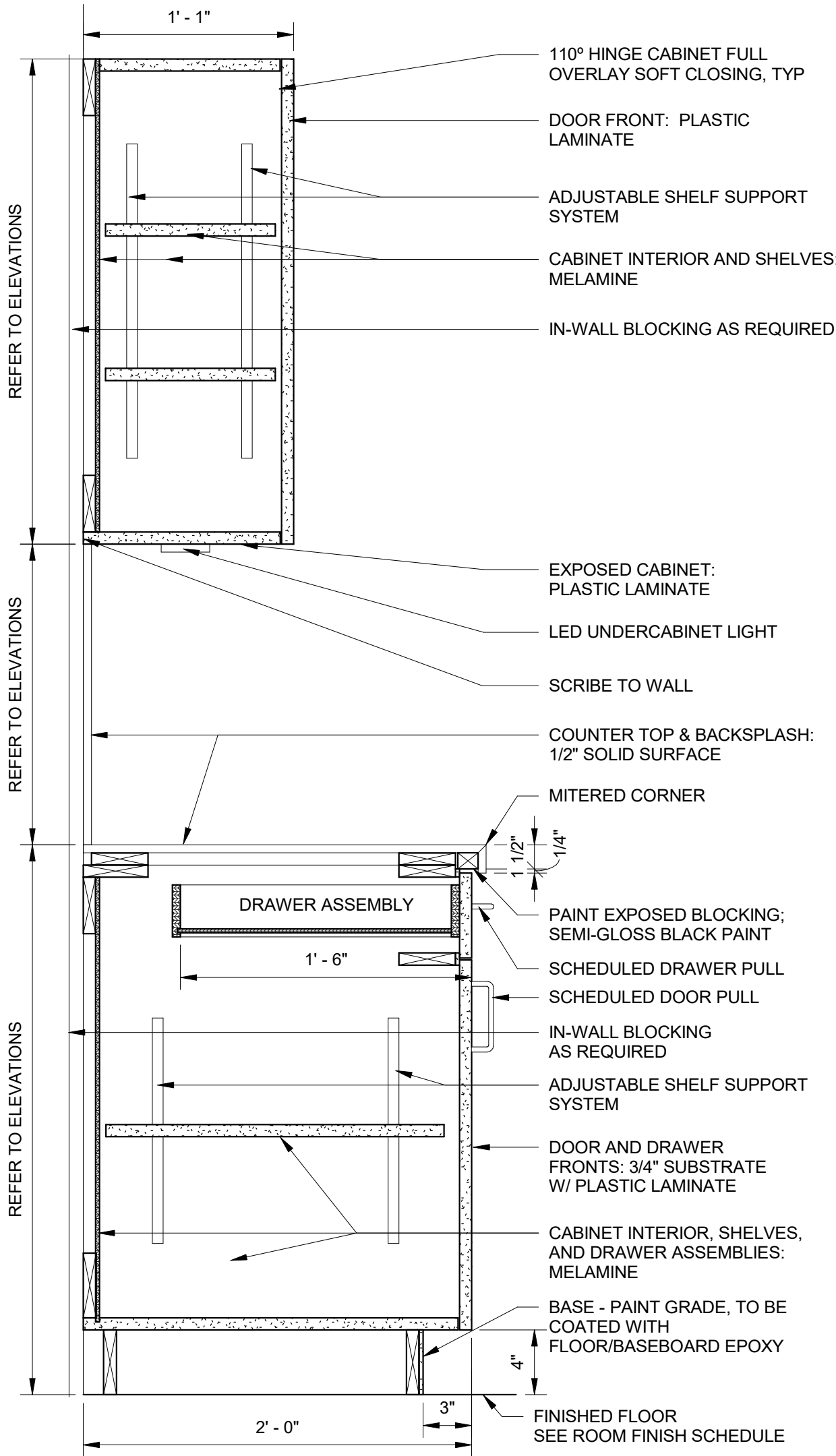
**F8** CEILING SOFFIT AT UPPER CABINET  
A610 SCALE: 1 1/2" = 1'-0"



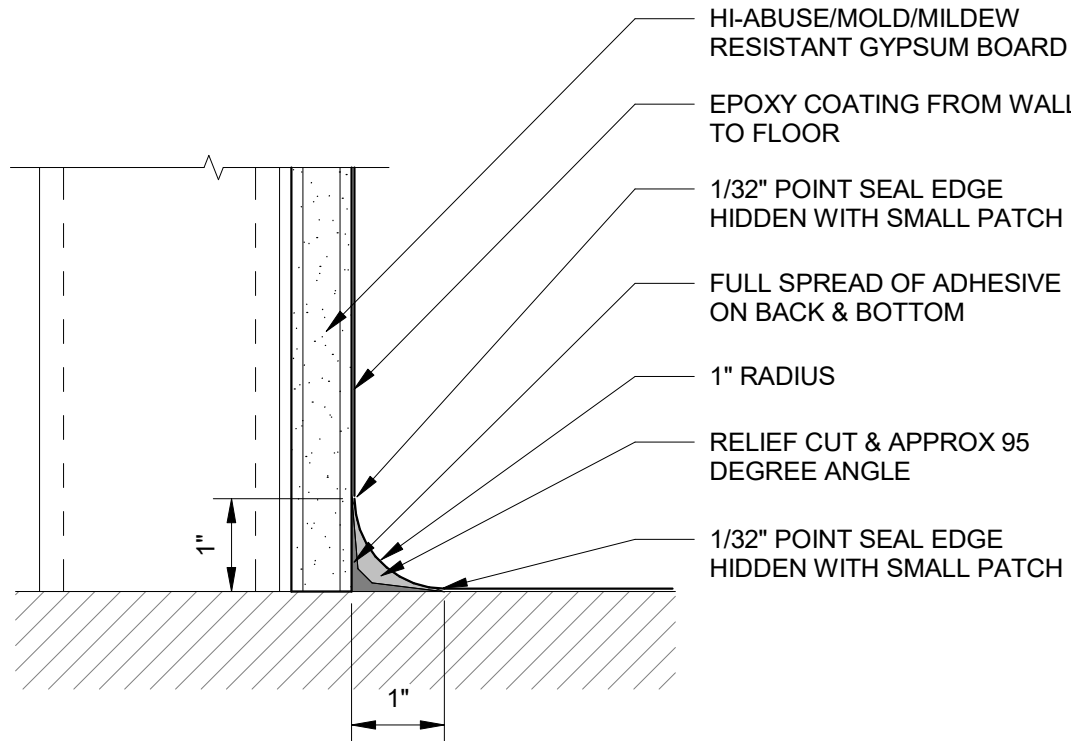
**F6** UPPER CABINET  
A610 SCALE: 1 1/2" = 1'-0"



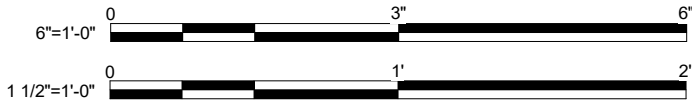
**A8** BASE CABINET WITH SINK & UPPER CABINET  
A610 SCALE: 1 1/2" = 1'-0"



**A6** BASE & UPPER CABINET  
A610 SCALE: 1 1/2" = 1'-0"



**A4** EPOXY FLOOR COVE BASE DETAIL  
A610 SCALE: 6\"/>

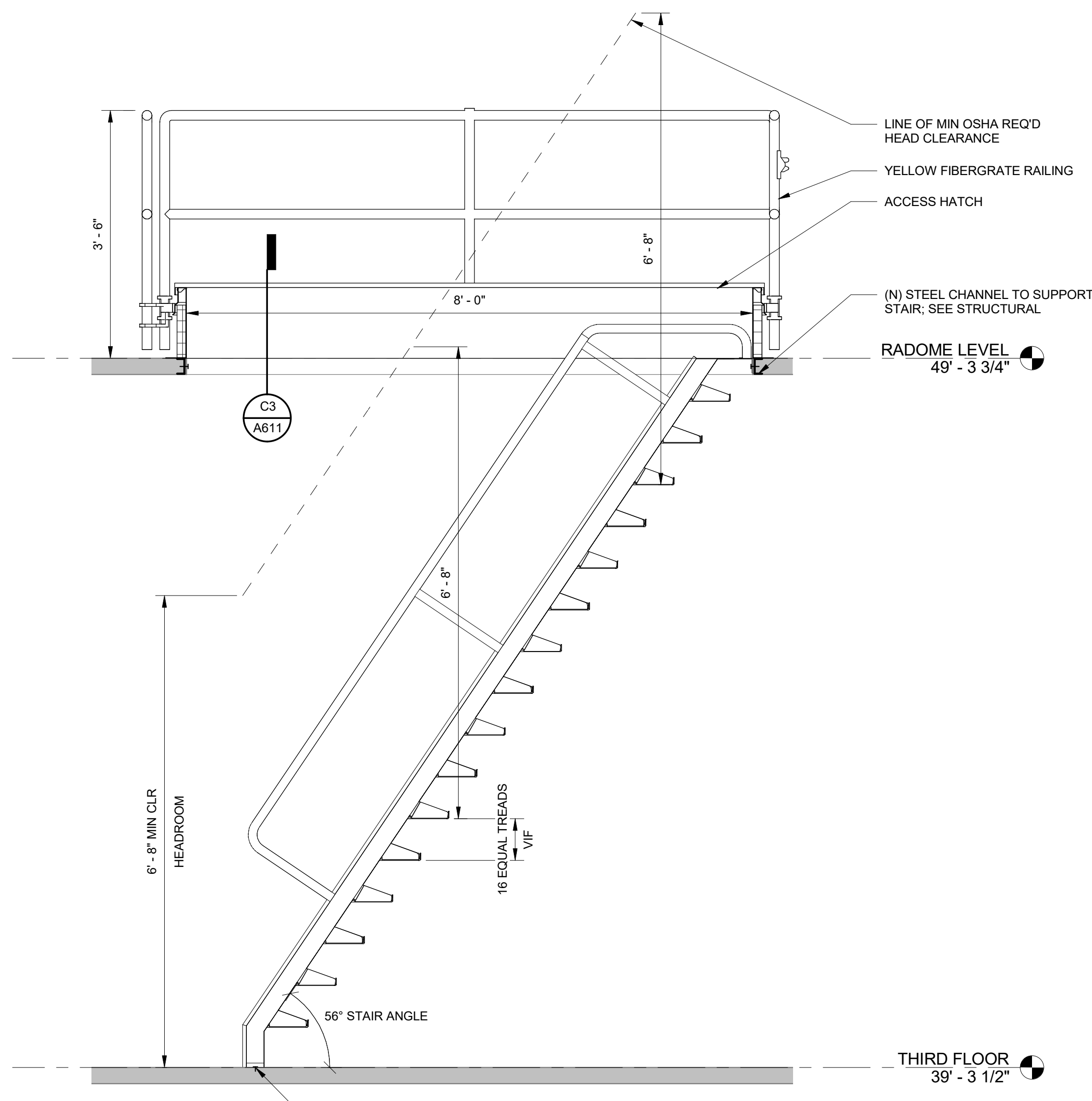


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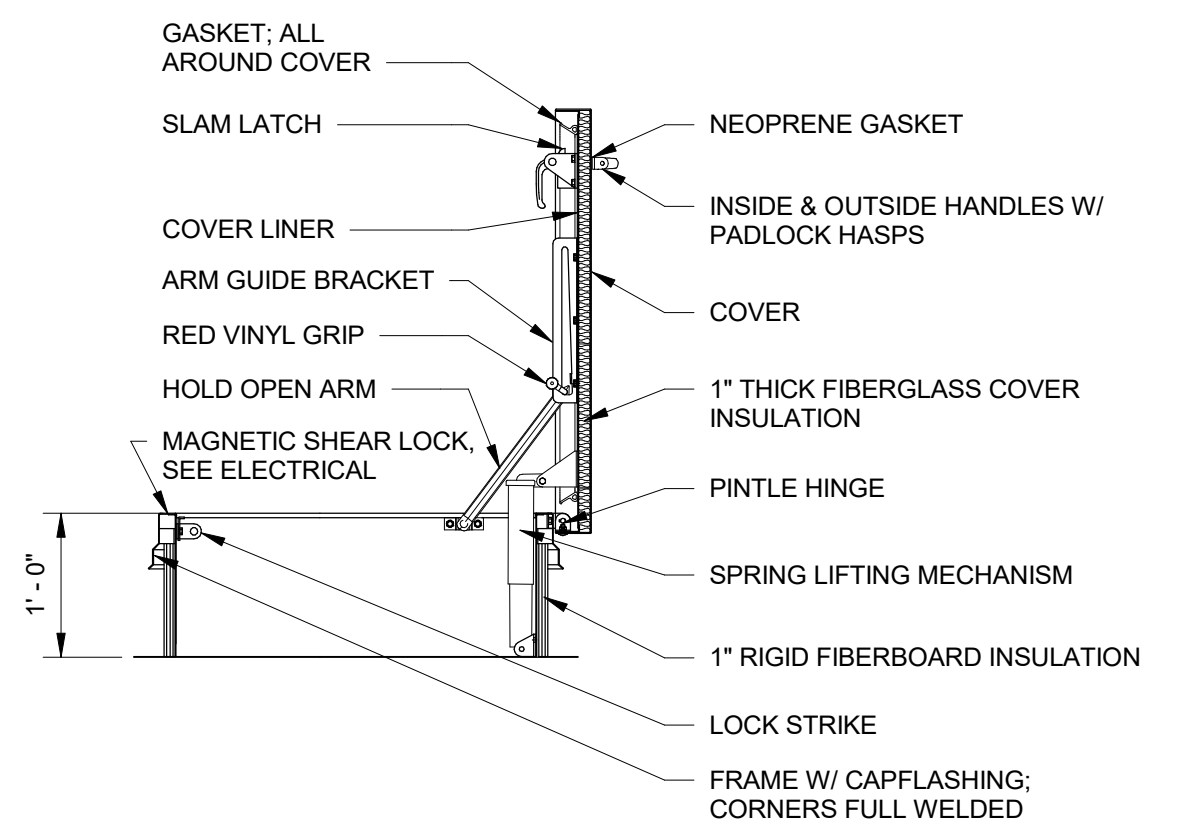
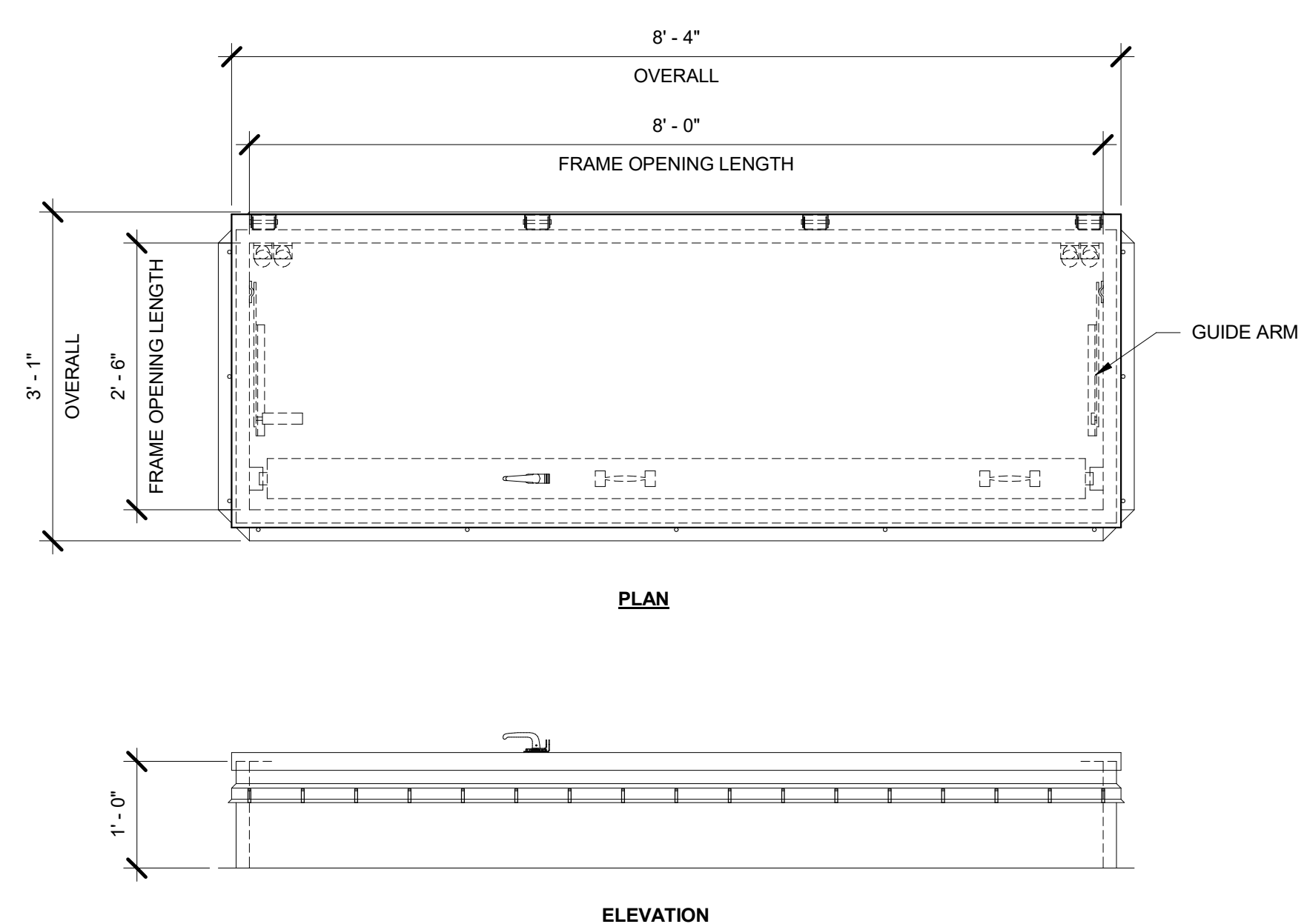


REV		APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA						
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT MILLWORK AND FLOOR BASE DETAILS						
RUSSELLVILLE						
REVIEWED BY		SUBMITTED BY		APPROVED BY		
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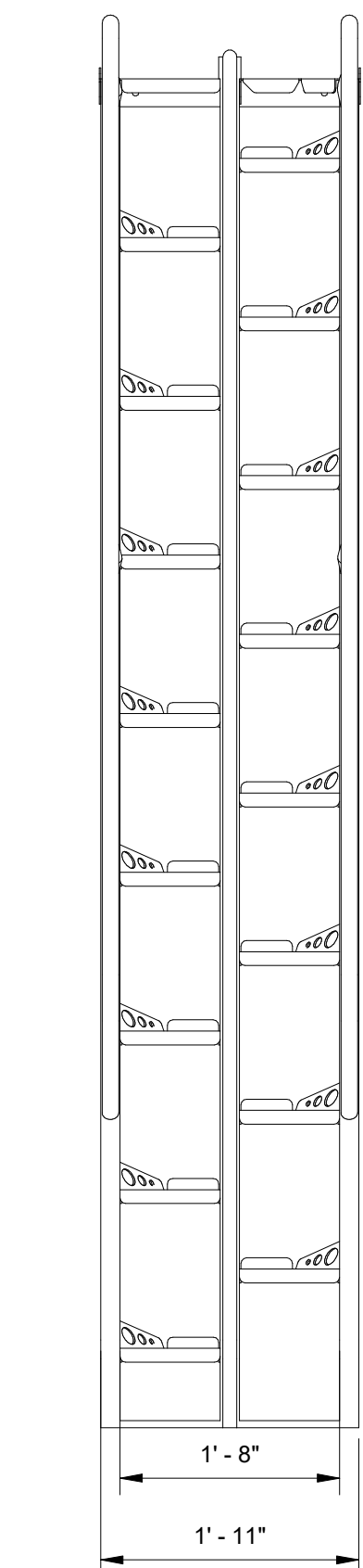




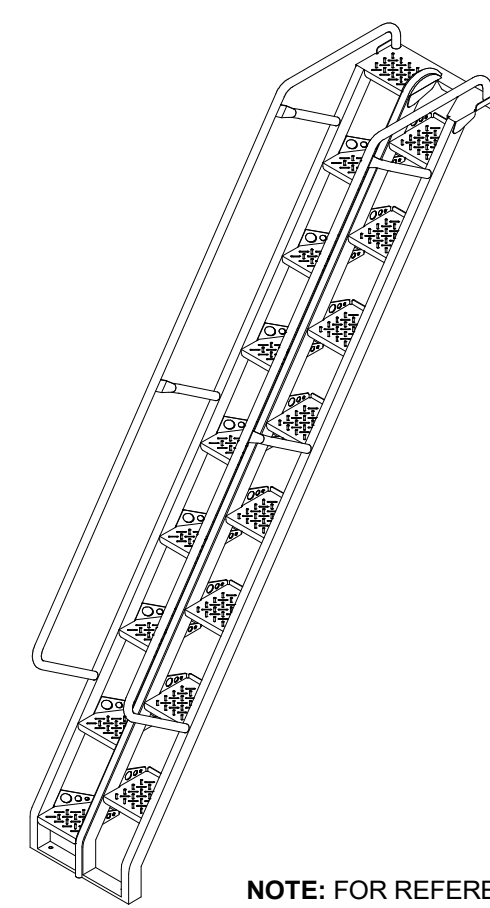
NOTE:  
PREFABRICATED ALTERNATING TREAD STAIR CUSTOM BUILT TO ORDER BY LAPEYRE STAIR OR APPROVED ALTERNATE



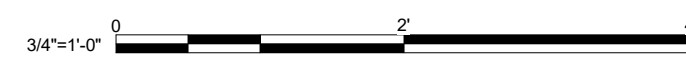
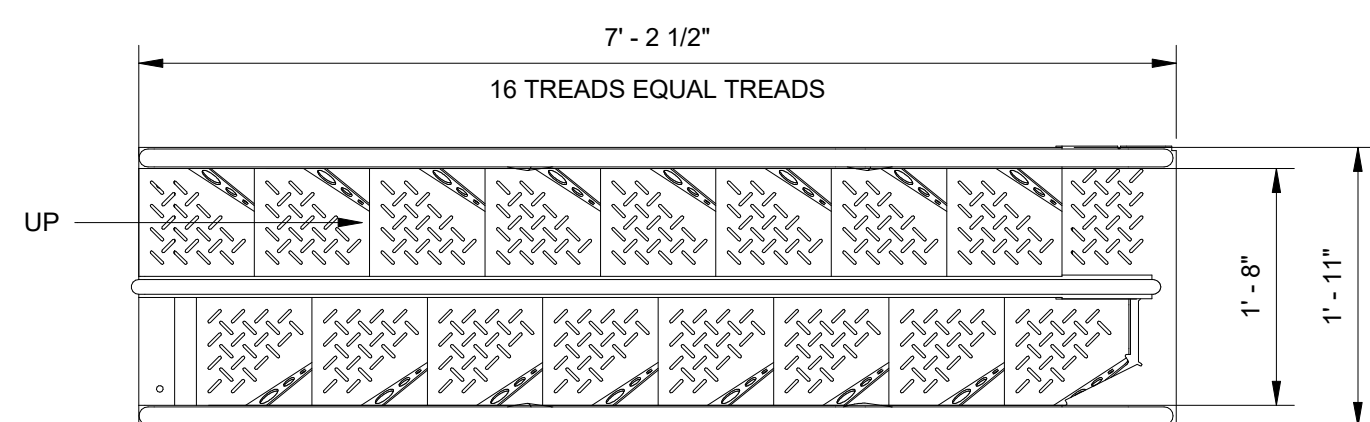
SECTION



NOTE: FOR REFERENCE ONLY



NOTE: FOR REFERENCE ONLY



C8 ALTERNATING TREAD STAIR - FRONT ELEVATION  
A611 SCALE: 3/4" = 1'-0"

C6 ALTERNATING TREAD STAIR - SECTION  
A611 SCALE: 3/4" = 1'-0"

C3 ACCESS HATCH - SHIP STAIR ACCESS IN-PROGRESS  
A611 SCALE: 3/4" = 1'-0"

A8 ALTERNATING TREAD STAIR - 3D VIEW  
A611 NOT TO SCALE

A6 ALTERNATING TREAD STAIR - PLAN  
A611 SCALE: 3/4" = 1'-0"

PTSI Managed Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA

FAA  
T4  
TECHNICAL SUPPORT SERVICE CENTER

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA					
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT RADOME ALTERNATING TREAD STAIR AND ROOF HATCH DETAILS					
RUSSELLVILLE AR					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
	DO NOT SIGN		DO NOT SIGN		
PROJECT ENGINEER			MGR: ENGINEERING		
DESIGNED	JH	ISSUED BY	DATE	JCN	22002872
DRAWN	JC	ENGINEERING SERVICES	DRAWING NO	REV	
CHECKED	KH		QXR - 22002872 - A611		

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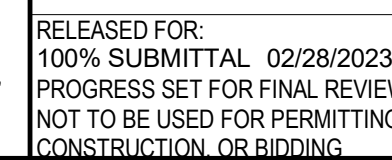




**F6** EXTERIOR DOOR HEAD DETAIL  
A623 SCALE: 3" = 1'-0"



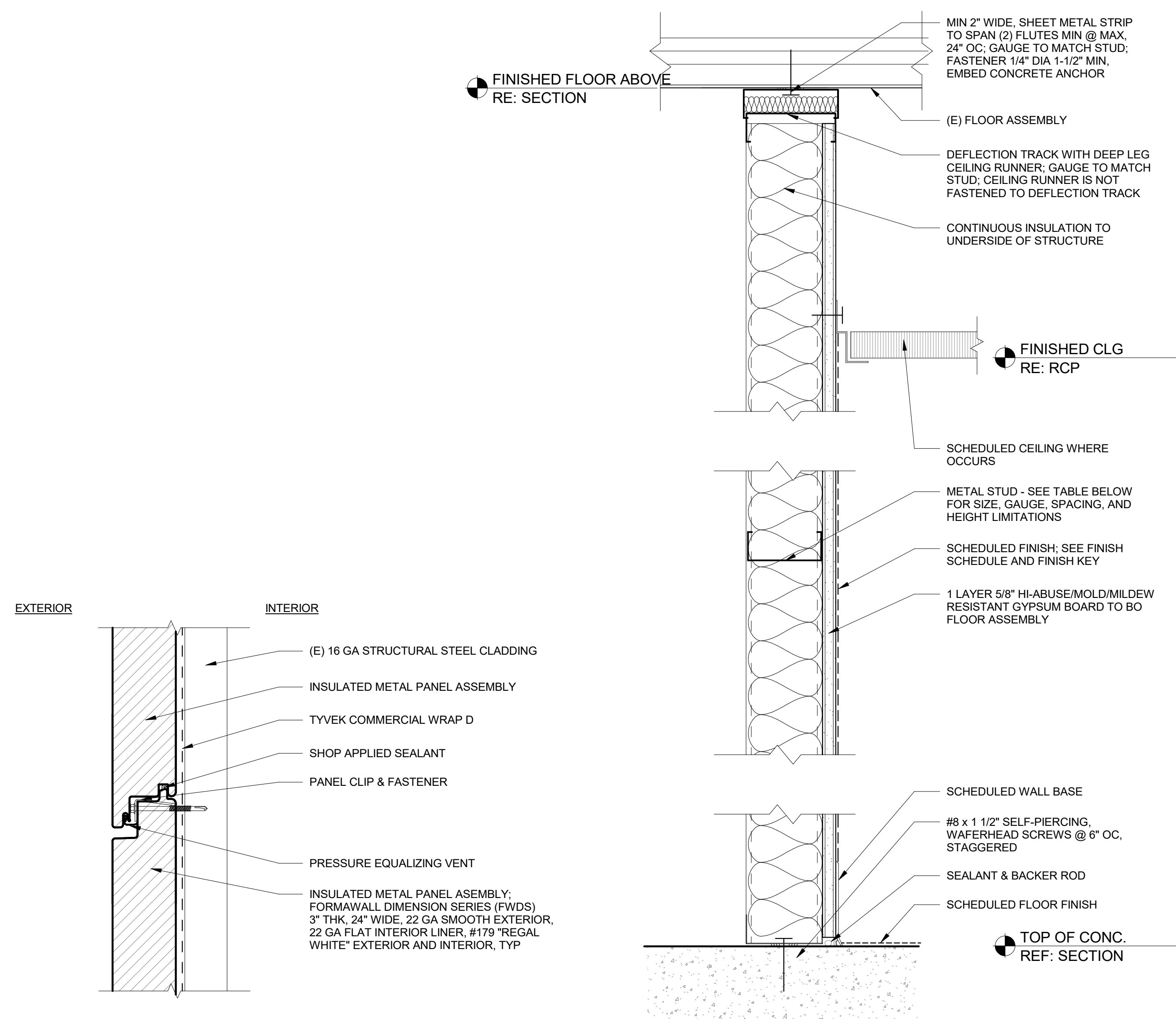
C2 EXTERIOR DOOR CANOPY DETAIL 3D  
A623 NOT TO SCALE



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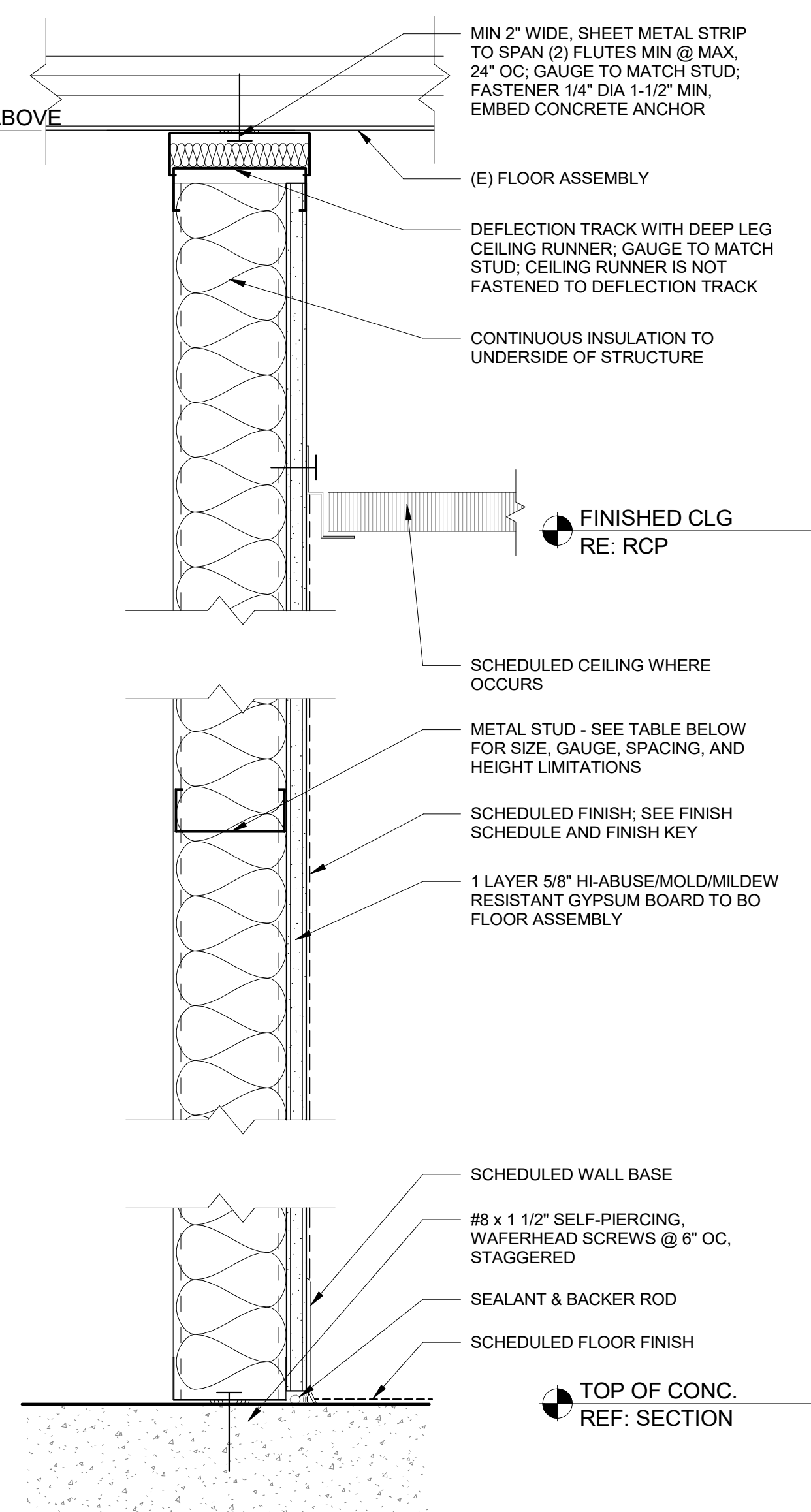
## GENERAL NOTES



PARTITION TYPE	STUD SIZE	STC	FIRE RATING	5 PSF L/240 LIMITING HEIGHTS		HEAD	BASE
				GA	SPAN @ 16" OC		
M1	-	-	-	-	-		

- WALL ASSEMBLY AS ILLUSTRATED
- HEAD & BASE DETAILS APPLY TO FURRING

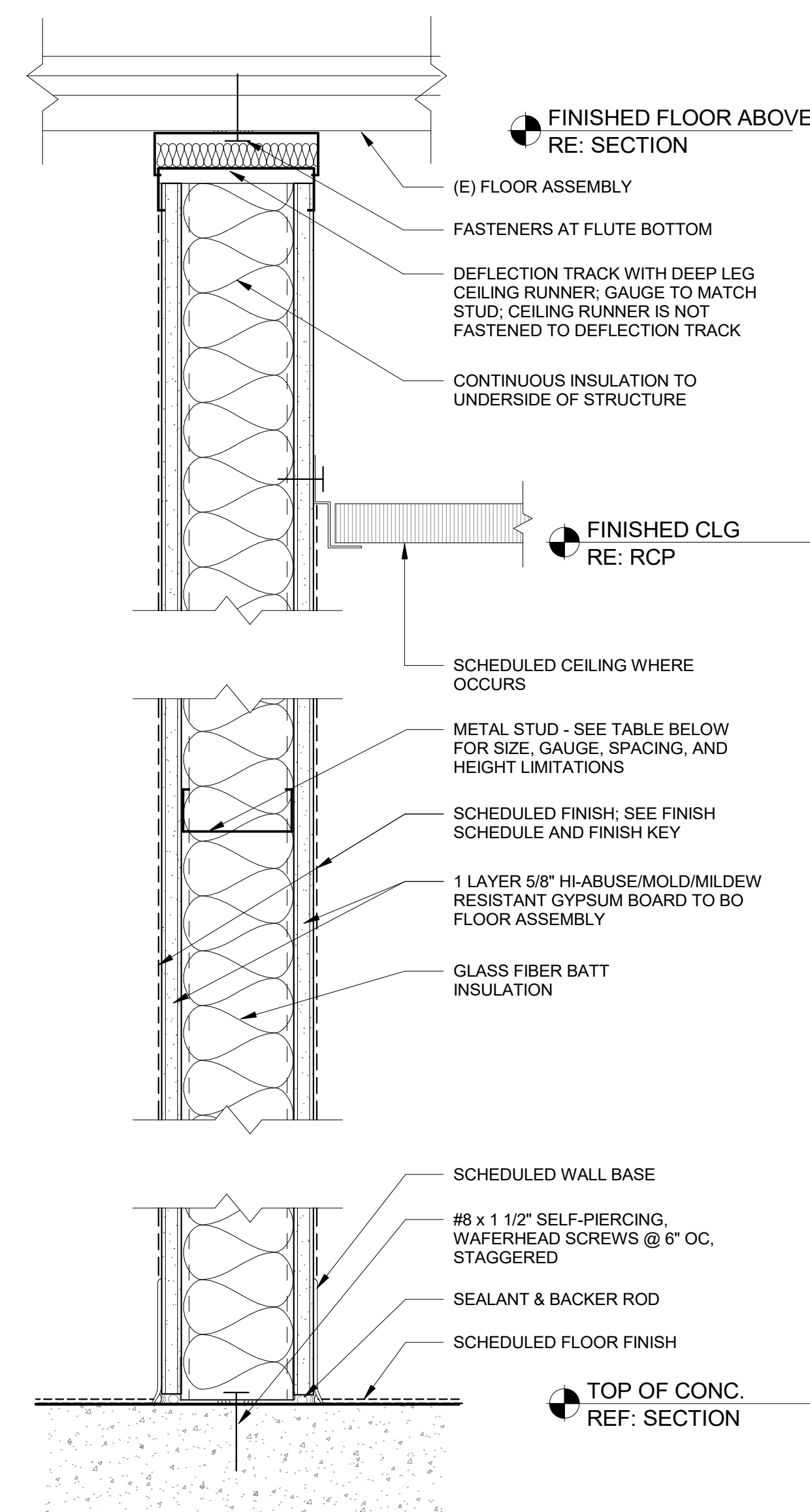
<b>M</b>	EXTERIOR WALL TYPE
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PARTITION TYPE	STUD SIZE	STC	FIRE RATING	5 PSF L/240 LIMITING HEIGHTS	
				GA	SPAN @ 16" OC
<b>F1</b>	2 1/2"	-	-	20	16'-10"
<b>F2</b>	3 5/8"	-	-	20	16'-10"
<b>F3</b>	6"	-	-	20	16'-10"

\* REFERENCE SSMA 2022, PER ICC ESR #3064P FOR MIL/GAUGE EQUIVALENCY CHART

<b>F</b>	TYPE 'F' FURRING (NON-RATED)
----------	------------------------------



PARTITION TYPE	STUD SIZE	STC	FIRE RATING	5 PSF L/240 LIMITING HEIGHTS	
				GA	SPAN @ 16" OC
<b>G1</b>	3 5/8"	49	-	20	16'-10"
<b>G2</b>	6"	49	-	20	16'-10"

\* REFERENCE SSMA 2015 FOR MIL/GAUGE EQUIVALENCY CHART

### **G** TYPE 'G' PARTITION (NON-RATED)



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## ROOM FINISH SCHEDULE

ROOM NO	ROOM NAME	WALL FINISH	BASE FINISH	FLOOR		CEILING		NOTES & REMARKS
				MATERIAL	FINISH	FINISH	HEIGHT	
100	FIRST FLOOR	EPX	-	EP	-	EPX	-	MEDIA BLAST AND REFINISH ALL EXTERIOR CATWALK STEEL
101	BATTERY ROOM	GYP/PT	EB	EP	-	ACP	10' - 0"	
102	MECHANICAL ROOM	GYP/PT	EP	EB	-	ACP	8' - 0"	
200	SECOND FLOOR	AP2, GYP/PT	EB	EP	-	AP1	-	
201	OFFICE	GYP/PT	EB	EP	-	ACP	8' - 0"	
300	THIRD FLOOR	AP2, GYP/PT	EB	EP	-	AP1	-	
302	RESTROOM	GYP/PT	EB	EP	-	ACP	8' - 0"	
400	RADOME	-	-	EP	-	-	-	

## FINISH LEGEND

SURFACE TYPE	KEY NAME	DESCRIPTION	MANUFACTURER	SHEEN/MODEL	STYLE/NUMBER	COLOR	SIZE	NOTES & REMARKS
BASE								
BASE	EB	EXPOXY FLOOR BASE	SEE SPECIFICATIONS: SECTION 09 67 23 / 2.05 RESINOUS FLOORING "SPEED BASE"	-	-	LIGHT GRAY	4" HEIGHT	STATIC DISSIPATING
CEILING								
CEILING	ACP	2 X 2 SUSPENDED ACOUSTICAL CEILING PANEL	SEE SPECIFICATIONS: SECTION 09 51 13 / 2.03 ACOUSTICAL PANEL CEILINGS	-	-	WHITE	24"X24"	
CEILING	AP1	ACRYLIC/LATEX PAINT - OPEN/EXPOSED STRUCTURE	SHERWIN WILLIAMS	FLAT FINISH	SW 7655	HIGH REFLECTIVE WHITE	-	
FLOORING								
FLOORING	EP	EPOXY	SEE SPECIFICATIONS: SECTION 09 67 23 RESINOUS FLOORING	-	-		-	
STEEL								
STEEL	EPX	EPOXY	SEE SPECIFICATIONS: SECTION 09 96 00 HIGH-PERFORMANCE COATINGS	GLOSS	-		-	APPLY TO CATWALK, GUARDRAIL, AND EXPOSED INTERIOR STRUCTURAL STEEL
STEEL	STE	EPOXY	SEE SPECIFICATIONS: SECTION 09 96 00 HIGH-PERFORMANCE COATINGS	GLOSS	-	LIGHT GRAY	-	STEEL STAIRS OUTDOOR
STEEL	STI	EPOXY	SEE SPECIFICATIONS: SECTION 09 96 00 HIGH-PERFORMANCE COATINGS	GLOSS	-	SAFETY YELLOW	-	STEEL STAIRS INDOOR
WALL								
WALL	AP2	ACRYLIC/LATEX PAINT - FIELD	SHERWIN WILLIAMS	EGGSHELL FINISH	SW 7757	HIGH REFLECTIVE WHITE	-	
WALL	AP3	ACRYLIC/LATEX PAINT - DOOR FRAMES/TRIM	SHERWIN WILLIAMS	SEMI-GLOSS FINISH	SW 7060	ATTITUDE GRAY	-	
WALL	GYP/PT	GYP SUM BOARD/PAINTED	SHERWIN WILLIAMS	PROMAR®	200 HP ZERO VOC INTERIOR ACRYLIC	WHITE	-	

## WINDOW SCHEDULE

MARK	COUNT	R.O.		TYPE	FRAME			GLAZING		DETAILS			SILL HEIGHT
		WIDTH	HEIGHT		FINISH	MATERIAL	COLOR	TYPE	THICKNESS	HEAD	JAMB	SILL	
01	7	4'	4'	FIXED	PVDF	KYNAR	WHITE	DBL GLAZED, BOTH PANES LAMINATED	1" OVERALL ASSEMBLY	D8/A644	A5/A644	A8/A644	SILL HEIGHTS VARY, ALIGN WINDOWS WITH MOST LOGICAL NEAREST HORIZONTAL IMP BANDING

## HURRICANE SHUTTERS

COUNT	WIDTH	MOUNTING	SLAT TYPE	SLAT MATERIAL
1	MEASURE IN FIELD	ABOVE DOOR 200A		INSULATED STAINLESS STEEL
7	MEASURE IN FIELD	ABOVE WINDOWS MARK 01		INSULATED STAINLESS STEEL

## GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR THE BASIS OF DESIGN OR EQUIVALENT MANUFACTURER TECHNICAL REQUIREMENTS.
2. REFER TO INTERIOR ELEVATIONS, REFLECTED CEILING DRAWINGS, ENLARGED PLAN DRAWINGS AND INTERIOR DETAIL DRAWINGS FOR ADDITIONAL FINISH PLACEMENT INFORMATION.
3. REFER TO ELECTRICAL DRAWINGS AND MECHANICAL DRAWINGS FOR COORDINATION OF BUILDING FINISHES TO BUILDING SYSTEMS.
4. REFER TO INTERIOR ELEVATIONS FOR WALL FINISH EXTENTS, CORNER GUARD LOCATIONS, SIGNAGE, AND SPECIALTY WALL FINISH LOCATIONS.
5. REFER TO REFLECTED CEILING DRAWINGS FOR CEILING HEIGHTS AND CEILING MATERIAL EXTENTS.
6. UNLESS NOTED OTHERWISE, ALL EXPOSED STRUCTURAL STEEL SHALL BE PAINTED **EPX**.
7. ALL DOOR FRAMES SHALL BE PAINTED **AP3**.
8. ALL METAL FABRICATIONS AND HANDRAILS SHALL BE PAINTED **STI**.
9. INTERIOR CAULKING SHALL MATCH ADJACENT WALL FINISH COLOR.
10. ALL EXPOSED CONCRETE FLOORS SHALL BE SEALED WITH EPOXY, SEE SCHEDULE.
11. AT GYPSUM BOARD SOFFITS AND BULKHEADS, PAINT ALL EXPOSED SURFACES.
12. PAINT ALL EXPOSED STRUCTURAL STEEL ELEMENTS, MISCELLANEOUS STEEL, PIPING, HANGERS, VALVES AND CONDUIT. THE PAINT COLOR SHALL BE AS INDICATED ON SCHEDULE. FIRE PROTECTION PIPING COLOR SHALL BE SAFETY RED.
13. ALL EXPOSED MECHANICAL AND ELECTRICAL EQUIPMENT AND ASSOCIATED SUPPORTING EQUIPMENT SHALL BE PAINTED **EPX** UNLESS OTHERWISE REQUIRED BY CODE. COORDINATE WITH MECHANICAL / ELECTRICAL FOR FINISHES ON MECHANICAL OR ELECTRICAL EQUIPMENT.
14. DO NOT PAINT PRE-FINISHED ITEMS, FINISHED METAL SURFACES, OPERATING PARTS, LABELS OR WARNINGS.
15. ALL SURFACE-MOUNTED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT WALL. CONDUIT EXCLUSIVELY ALLOCATED TO FIRE EQUIPMENT SHALL BE PAINTED RED.
16. FLAME SPREAD & SMOKE DEVELOPED INDEXES OF THE SCHEDULED WALL AND CEILING FINISHES AND CLASSIFICATION OF THE SCHEDULED FLOOR FINISHES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES, REFER TO SPECIFICATIONS.
17. ALL NEW CONCRETE FLOORS SHALL RECEIVE A BROOM FINISH.

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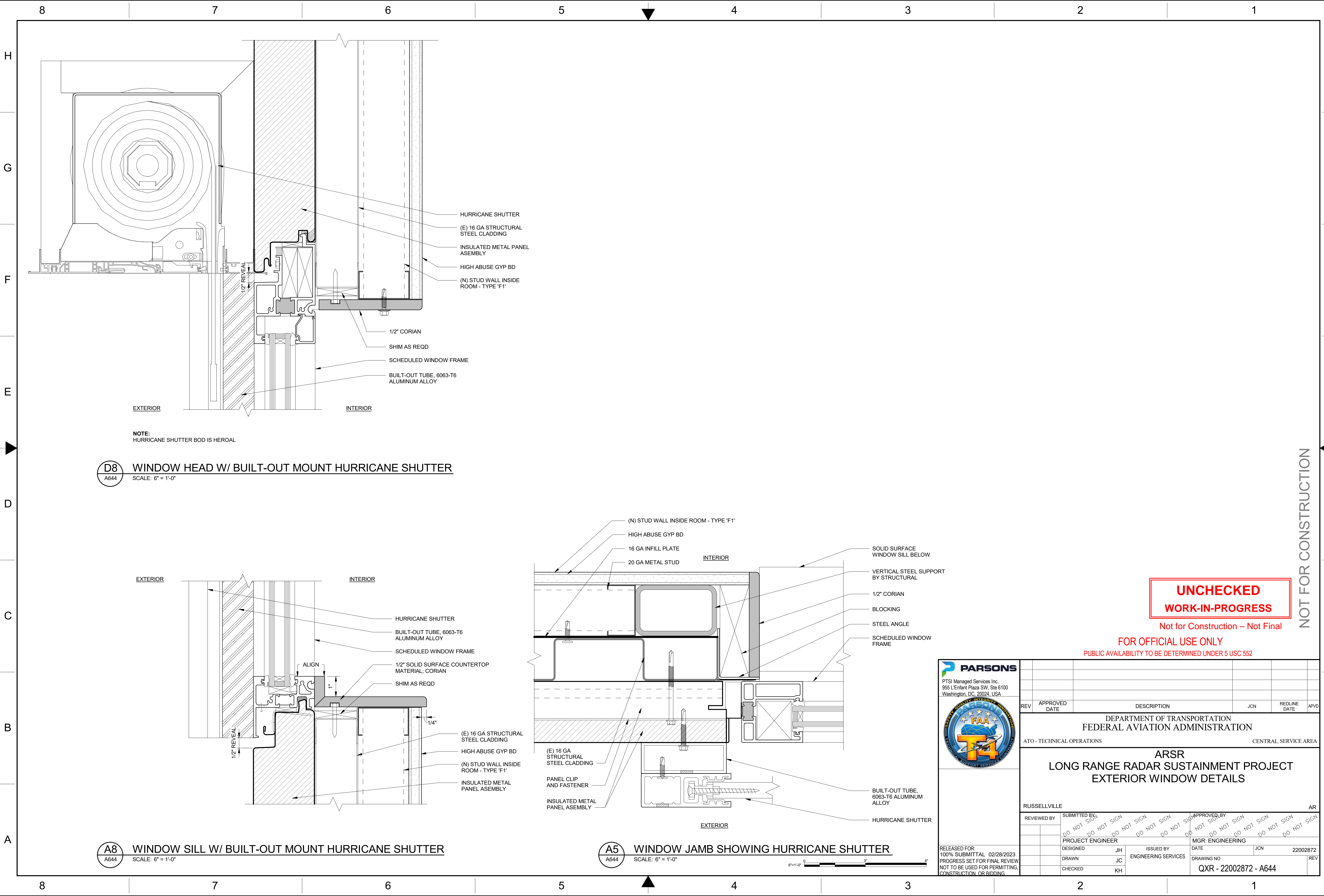
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ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT EXTERIOR WINDOW DETAILS									
RUSSELLVILLE						AR			
REVIEWED BY	SUBMITTED BY		APPROVED BY		DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN				
PROJECT ENGINEER			MGR: ENGINEERING						
DESIGNED		JH	ISSUED BY		DATE		JCN	22002872	
DRAWN		JC	ENGINEERING SERVICES		DRAWING NO		REV		
CHECKED		KH			QXR - 22002872 - A644				











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SPECIAL INSPECTION SCHEDULE

A. STRUCTURAL - STEEL – WELDING SECTION  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

STEEL INSPECTION PRIOR TO WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-1		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
1. Verify that the welding procedures specification (WPS) is available	PERFORM	
2. Verify manufacturer certifications for welding consumables are available	PERFORM	
3. Verify material identification	PERFORM	Type and grade.
4. Welder Identification System	PERFORM	The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type.
5. Fit-up of groove welds (including joint geometry)	OBSERVE	√ Joint preparation √ Dimensions (alignment, root opening, root face, bevel) √ Cleanliness (condition of steel surfaces) √ Tacking (tack weld quality and location) √ Backing type and fit (if applicable)
6. Configuration and finish of access holes	OBSERVE	
7. Fit-up of fillet welds	OBSERVE	√ Dimensions (alignment, gaps at root) √ Cleanliness (condition of steel surfaces) √ Tacking (tack weld quality and location)
STEEL INSPECTION DURING WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-2		
TASK	INSPECTION TYPE	DESCRIPTION
8. Use of qualified welders	PERFORM	Welding by welders, welding operators, and tack welders who are qualified in conformance with requirements.
9. Control and handling of welding consumables	OBSERVE	√ Packaging √ Electrode atmospheric exposure control
10. No welding over cracked tack welds	OBSERVE	
11. Environmental conditions	OBSERVE	√ Wind speed within limits √ Precipitation and temperature
12. Welding Procedures Specification followed	OBSERVE	√ Settings on welding equipment √ Travel speed √ Selected welding materials √ Shielding gas type/flow rate √ Preheat applied √ Intergpass temperature maintained (min./max.) √ Proper position (F, V, H, OH) √ Intermix of filler metals avoided
13. Welding techniques	OBSERVE	√ Intergpass and final cleaning √ Each pass within profile limitations √ Each pass meets quality requirements

<sup>1</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.

A. STRUCTURAL - STEEL – WELDING SECTION (CONTINUED)

STEEL INSPECTION AFTER WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.4-3		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
14. Welds cleaned	OBSERVE	
15. Size, length, and location of all welds	PERFORM AND DOCUMENT	Size, length, and location of all welds conform to the requirements of the detail drawings.
16. Welds meet visual acceptance criteria		√ Crack prohibition √ Weld/base-metal fusion √ Crater cross section √ Weld profiles √ Weld size √ Undercut √ Porosity
17. Arc strikes	PERFORM	
18. k-area	PERFORM	When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks.
19. Backing removed, weld tabs removed and finished, and fillet welds added where required	PERFORM	
20. Repair activities	PERFORM AND DOCUMENT	
21. Document acceptance or rejection of welded joint or member	PERFORM	

END SECTION

<sup>1</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**DOCUMENT:** Document in a report that the work has been performed as required. This is in addition to all other required reports.

B. STRUCTURAL - STEEL – BOLTING SECTION  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

STEEL INSPECTION TASKS PRIOR TO BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.6-1		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
1. Manufacture's certifications available for fastener materials	PERFORM	
2. Fasteners marked in accordance with ASTM requirements	OBSERVE	
3. Proper fasteners selected for joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	OBSERVE	
4. Proper bolting procedure selected for joint detail	OBSERVE	
5. Connecting elements, including appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	OBSERVE	
6. Proper storage provided for bolts, nuts, washers, and other fastener components	OBSERVE	
STEEL INSPECTION TASKS DURING BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Table C-N5.6-2		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
7. Fastener assemblies of suitable condition, placed in all holes and washers (if required) are positioned as required	OBSERVE	
8. Joint brought to the snug-tight condition prior to pretensioning operation	OBSERVE	
9. Fastener component not turned by the wrench prevented from rotating	OBSERVE	
10. Bolts are pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges	OBSERVE	
STEEL INSPECTION TASKS AFTER BOLTING – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC 1705.2.1, AISC 360-10: Table C-N5.6-3		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
11. Document acceptance or rejection of all bolted connections	DOCUMENT	

END SECTION

<sup>1</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.  
**DOCUMENT:** Document in a report that the work has been performed as required. This is in addition to all other required reports.

C. STRUCTURAL - STEEL - NON DESTRUCTIVE TESTING SECTION  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

NONDESTRUCTIVE TESTING OF WELDED JOINTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 360-16: Section N5.5		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
1. Use of qualified nondestructive testing personnel	PERFORM	Visual weld inspection and nondestructive testing (NDT) shall be conducted by personnel qualified in accordance with AWS D1.8 clause 7.2
2. CJP groove welds	PERFORM	Ultrasonic testing (UT) shall be performed on 100% of CJP groove welds for materials greater than 5/16" (8mm) thick.
3. Welded joints subject to fatigue	OBSERVE	Dye penetrant testing (DT) and Ultrasonic testing (UT) shall be performed on 100% of welded joints identified on contract drawings as being subject to fatigue.
4. Weld tab removal sites	OBSERVE	At the end of welds where weld tabs have been removed, magnetic particle testing shall be performed on the same beam-to-column joints receiving UT

END SECTION

<sup>1</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.

D. STRUCTURAL - STEEL – AISC 341 REQUIREMENTS (SEISMIC PROVISIONS) SECTION  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

NONDESTRUCTIVE TESTING OF WELDED JOINTS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 341-16: Section J6.2		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
[NOTE: DOR may uncheck this section for projects NOT designed in accordance with AISC 341 (Seismic Provisions) or for projects designed according to AISC 341, but using an R value equal to 3]		
5. CJP groove welds	OBSERVE	Dye penetrant testing (DT) and ultrasonic testing (UT) shall be performed on 100% of CJP groove welds for materials greater than 5/16" thick (8mm).
6. Beam cope and access hole.	OBSERVE	At welded splices and connections, thermally cut surfaces of beam copes and access holes shall be tested using magnetic particle testing (MT) or dye penetrant testing (DT), when the flange thickness exceeds 1 1/2 in. for rolled shapes, or when the web thickness exceeds 1 1/2 in. for built-up shapes.
7. K-area NDT (AISC 341)	PERFORM	Where welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, the web shall be tested for cracks using magnetic particle testing (MT). The MT inspection area shall include the k-area base metal within 3-inches of the weld. The MT shall be performed no sooner than 48 hours following completion of the welding.
8. Placement of reinforcing or contouring fillet welds	DOCUMENT	

END SECTION

<sup>1</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.  
**DOCUMENT:** Document in a report that the work has been performed as required. This is in addition to all other required reports.

E. STRUCTURAL - STEEL – OTHER INSPECTIONS  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

OTHER STEEL INSPECTIONS – VERIFY THE FOLLOWING ARE IN COMPLIANCE 2018 IBC 1705.2.1, AISC 341-16: Tables J8.1 & J10.1		
TASK	INSPECTION TYPE <sup>2</sup>	DESCRIPTION
1. Anchor rods and other embedments supporting structural steel	PERFORM	Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.
2. Fabricated steel or erected steel frame	OBSERVE	Verify compliance with the details shown on the construction documents, such as braces, stiffeners, member locations and proper application of joint details at each connection.
3. Reduced beam sections (RBS) where/if occurs	DOCUMENT	√ Contour and finish √ Dimensional tolerances
4. Protected zones	DOCUMENT	No holes or unapproved attachments made by fabricator or erector
5. H-piles where/if occurs	DOCUMENT	No holes or unapproved attachments made by the responsible SUBCONTRACTOR

END SECTION

<sup>1</sup> See Concrete Construction Section for all concrete related inspection of composite steel construction.  
<sup>2</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.  
**DOCUMENT:** Document in a report that the work has been performed as required. This is in addition to all other required reports.

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 PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA						
	REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
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	CENTRAL SERVICE AREA					
	ARSR LONG RANGE RADAR SUSTAINMENT PROJECT GENERAL STRUCTURAL NOTES					
	RUSSELLVILLE AR					
	REVIEWED BY	SUBMITTED BY		APPROVED BY		
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PROJECT ENGINEER		MGR: ENGINEERING				
DESIGNED	EC	ISSUED BY	DATE	JCN	22002872	
DRAWN	JB	ENGINEERING SERVICES	DRAWING NO			
CHECKED	RJ		QXR - 22002872 - S003		REV	
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SPECIAL INSPECTION SCHEDULE - CONTINUED

F. STRUCTURAL - CONCRETE CONSTRUCTION SECTION  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

CONCRETE CONSTRUCTION, INCLUDING COMPOSITE DECK – VERIFY THE FOLLOWING ARE IN COMPLIANCE IBC TABLE 1705.3 (ACI 318 REFERENCES NOTED IN IBC TABLE)		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
1. Inspect reinforcement, including prestressing tendons, and verify placement.	OBSERVE	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and unacceptable rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
2. Reinforcing bar welding	OBSERVE	√ Verify weldability of reinforcing bars other than ASTM A 706 √ Inspect single-pass fillet welds, maximum 5/16" in accordance with AWS D1.4
3. All other welding	CONTINUOUS	Visually inspect all welds in accordance with AWS D1.4
4. Cast in place anchors and post installed drilled anchors (downward inclined)	OBSERVE	Verify prior to placing concrete that cast in place anchors and post installed drilled anchors have proper embedment, spacing and edge distance.
5. Post-installed adhesive anchors in horizontal or upward inclined orientations	CONTINUOUS AND DOCUMENT	√ Inspect as required per approved ICC-ES report √ Verify that installer is certified for installation of horizontal and overhead installation applications √ Inspect proof loading as required by the contract documents
6. Verify use of required mix design	OBSERVE	Verify that all mixes used comply with the approved construction documents
7. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	CONTINUOUS	At the time fresh concrete is sampled to fabricate specimens for strength test verify these tests are performed by qualified technicians.
8. Inspect concrete and/or shotcrete placement for proper application techniques	CONTINUOUS	Verify proper application techniques are used during concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated.
9. Verify maintenance of specified curing temperature and technique	OBSERVE	Inspect curing, cold weather protection, and hot weather protection procedures.
10. Pre-stressed concrete	CONTINUOUS	Verify application of prestressing forces and grouting of bonded prestressing tendons.
11. Inspect erection of precast concrete members	OBSERVE	
12. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	OBSERVE	
13. Inspect formwork for shape, location and dimensions of the concrete member being formed.	OBSERVE	

END SECTION

<sup>1</sup> **OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.  
**DOCUMENT:** Document in a report that the work has been performed as required. This is in addition to all other required reports.  
**CONTINUOUS:** Constant monitoring of identified tasks by a special inspector over the duration of performance of said tasks.

G. STRUCTURAL - COLD-FORMED METAL DECK - PLACEMENT SECTION  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

METAL DECK INSPECTION PRIOR TO DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.1		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
1. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	PERFORM	
2. Document acceptance or rejection of deck and deck accessories	DOCUMENT	
METAL DECK INSPECTION DURING DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.2		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
3. Verify compliance of deck and all deck accessories installation with construction documents	PERFORM	
4. Verify deck materials are represented by the mill certifications that comply with the construction documents	PERFORM	
5. Document acceptance or rejection of installation of deck and deck accessories	DOCUMENT	
METAL DECK INSPECTION AFTER DECK PLACEMENT – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.3		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
6. Welding procedure specification (WPS) available	PERFORM	
7. Manufactures certifications for welding consumables available	OBSERVE	
8. Material identification (type/grade)	OBSERVE	
9. Check welding equipment	OBSERVE	

END SECTION

<sup>1</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.  
**DOCUMENT:** Document in a report that the work has been performed as required. This is in addition to all other required reports.

H. STRUCTURAL - COLD-FORMED METAL DECK – WELDING SECTION  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

METAL DECK INSPECTION DURING WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.4		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
1. Use of qualified welders	OBSERVE	
2. Control and handling of welding consumables	OBSERVE	
3. Environmental conditions (wind speed, moisture, temperature)	OBSERVE	
4. WPS followed	OBSERVE	
METAL DECK INSPECTION AFTER WELDING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.5		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
5. Verify size and location of welds, including support, sidelap, and perimeter welds.	PERFORM	
6. Welds meet visual acceptance criteria	PERFORM	
7. Verify repair activities	PERFORM	
8. Document acceptance or rejection of welds	DOCUMENT	

END SECTION

<sup>1</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.  
**DOCUMENT:** Document in a report that the work has been performed as required. This is in addition to all other required reports.

I. STRUCTURAL - COLD-FORMED METAL DECK – FASTENING SECTION  
ALL OR PORTIONS OF THIS SECTION ARE APPLICABLE IF BOX IS CHECKED: ☒

METAL DECK INSPECTION BEFORE MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.6		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
1. Manufacturer installation instructions available for mechanical fasteners	OBSERVE	
2. Proper tools available for fastener installation	OBSERVE	
METAL DECK INSPECTION DURING MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.7		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
3. Fasteners are positioned as required	OBSERVE	
4. Fasteners are installed in accordance with manufacturer's instructions	OBSERVE	
METAL DECK INSPECTION AFTER MECHANICAL FASTENING – VERIFY THE FOLLOWING ARE IN COMPLIANCE SDI QA/QC-2011, Appendix 1, Table 1.8		
TASK	INSPECTION TYPE <sup>1</sup>	DESCRIPTION
5. Check spacing, type, and installation of support fasteners	PERFORM	
6. Check spacing, type, and installation of sidelap fasteners	PERFORM	
7. Check spacing, type, and installation of perimeter fasteners	PERFORM	
8. Verify repair activities	PERFORM	
9. Document acceptance or rejection of mechanical fasteners	DOCUMENT	


END SECTION

<sup>1</sup> **PERFORM:** Perform these tasks for each weld, fastener or bolted connection, and required verification.  
**OBSERVE:** Observe these items on a random sampling basis daily to insure that applicable requirements are met. Operations need not be delayed pending these inspections at subcontractor's risk.  
**DOCUMENT:** Document in a report that the work has been performed as required. This is in addition to all other required reports.

UNCHECKED  
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 PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA	REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
	CENTRAL SERVICE AREA					
	ARSR LONG RANGE RADAR SUSTAINMENT PROJECT GENERAL STRUCTURAL NOTES					
	RUSSELLVILLE AR					
	REVIEWED BY	SUBMITTED BY		APPROVED BY		
		DO NOT SIGN		DO NOT SIGN		
		DO NOT SIGN		DO NOT SIGN		
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PROJECT ENGINEER		MGR: ENGINEERING				
DESIGNED	EC	ISSUED BY	DATE	JCN	22002872	
DRAWN	JB	ENGINEERING SERVICES	DRAWING NO			
CHECKED	RJ		QXR - 22002872 - S004		REV	
RELEASED FOR: 100% SUBMITTAL 1/23/2023 PROGRESS SET FOR REFERENCE. NOT TO BE USED FOR PERMITTING, CONSTRUCTION, OR BIDDING						

NOT FOR CONSTRUCTION

ISSUED FOR: 100% SUBMITTAL







$\alpha$ (DEGREE)	DESIGN WIND PRESURE
0	33.6 psf
15	25.1 psf
30	13.7 psf
45	-13.7 psf
60	-33.6 psf
75	-45.0 psf
90	-45.0 psf
105	-36.5 psf
120	-25.1 psf
135	-19.4 psf
150	-16.5 psf
165	-16.5 psf
180	-16.5 psf

1. THE FINAL NET DESIGN WIND PRESSURE, INCLUDING ALL PERMITTED REDUCTIONS, USED IN THE DESIGN SHALL NOT BE LESS THAN 16 PSF IN EITHER DIRECTION.
2. REFER TO GENERAL NOTES S-001 FOR WIND LOAD DESIGN CRITERIA. WIND PRESSURES ARE IN U.S. IMATE LEVEL 1.0W FOR STRENGTH DESIGN & 0.6W FOR ALLOWABLE STRESS DESIGN PER ASCE 7-16) AND SHALL APPLY NORMAL TO MEMBER SURFACE.
3. PLUS AND MINUS (+/-) SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM SURFACE RESPECTIVELY.
4. EACH COMPONENT SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE PRESSURES.

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	PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA									
	REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD	
	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION CENTRAL SERVICE AREA									
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	RUSSELLVILLE <span style="float: right;">AR</span>									
	REVIEWED BY	SUBMITTED BY				APPROVED BY				
		PROJECT ENGINEER				MGR: ENGINEERING				
	DESIGNED	EC	ISSUED BY			DATE	JCN	22002872		
	DRAWN	JR	ENGINEERING SERVICES			DRAWING NO				
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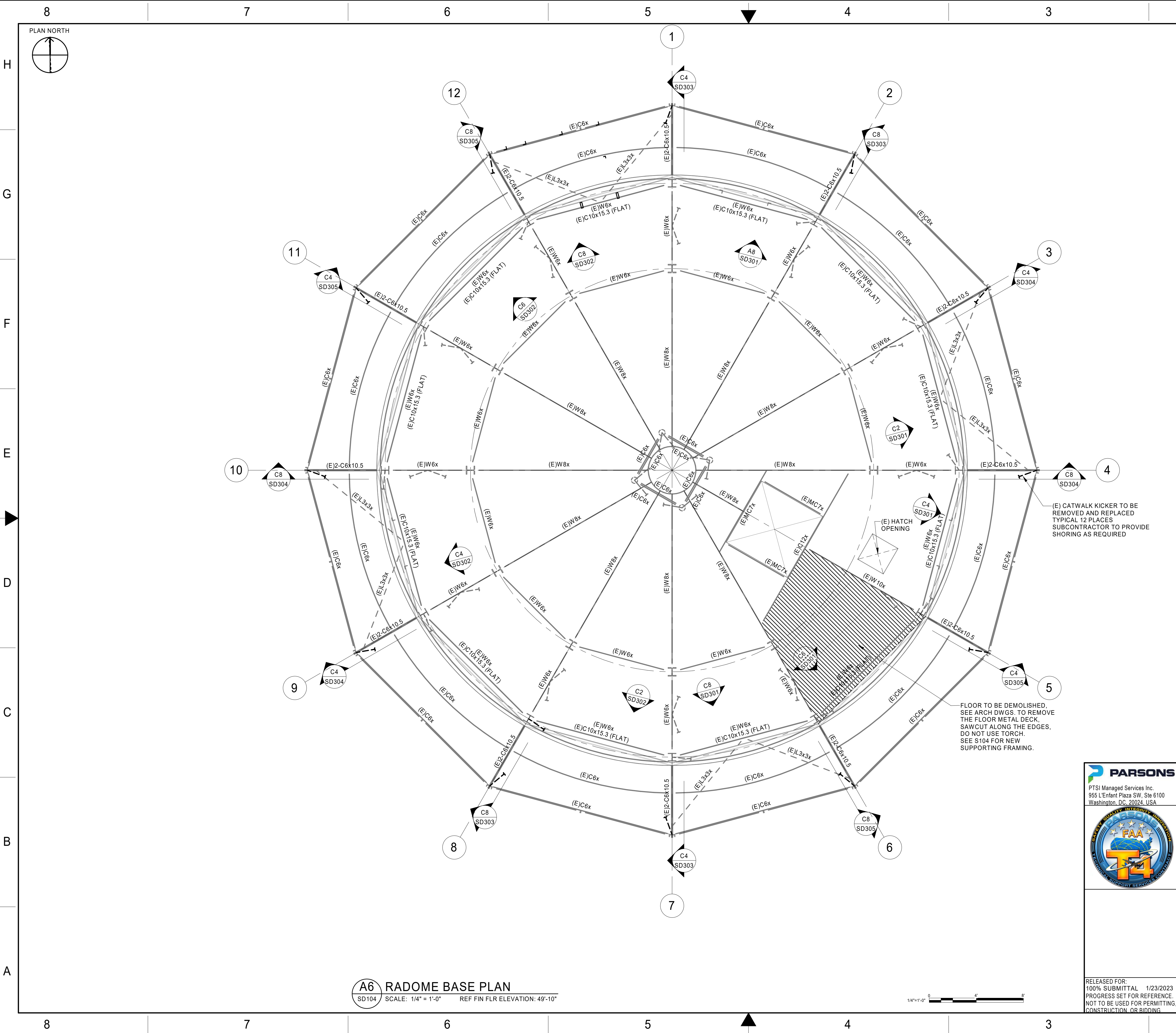


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GENERAL NOTES

1. SUBCONTRACTOR TO VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL BRING ANY DISCREPANCY TO THE OWNER'S AND ENGINEER OF RECORD'S ATTENTION.
2. SUBCONTRACTOR SHALL TAKE ALL PRECAUTION TO MITIGATE GROUND VIBRATIONS DURING CONCRETE DEMOLITION THAT MAY IMPACT THE OPERATION OF THE LRR. THE SUBCONTRACTOR SHALL SUBMIT THEIR MEANS AND METHODS OF DEMOLITION (DEMOLITION PLAN) FOR REVIEW AND APPROVAL, PRIOR TO ANY DEMOLITION WORK.
3. FOR DESIGN LOADS, DESIGN CODES, ABBREVIATIONS, LEGENDS AND SYMBOLS REFER TO DRAWING S001.
4. FOR GENERAL STRUCTURAL NOTES AND STRUCTURAL OBSERVATION REQUIREMENTS, REFER TO DRAWING S002.
5. FOR SPECIAL INSPECTION REQUIREMENTS, REFER TO DRAWINGS S003 THRU S004.
6. FOR TYPICAL DETAILS REFER TO DRAWINGS S601 THRU S602.

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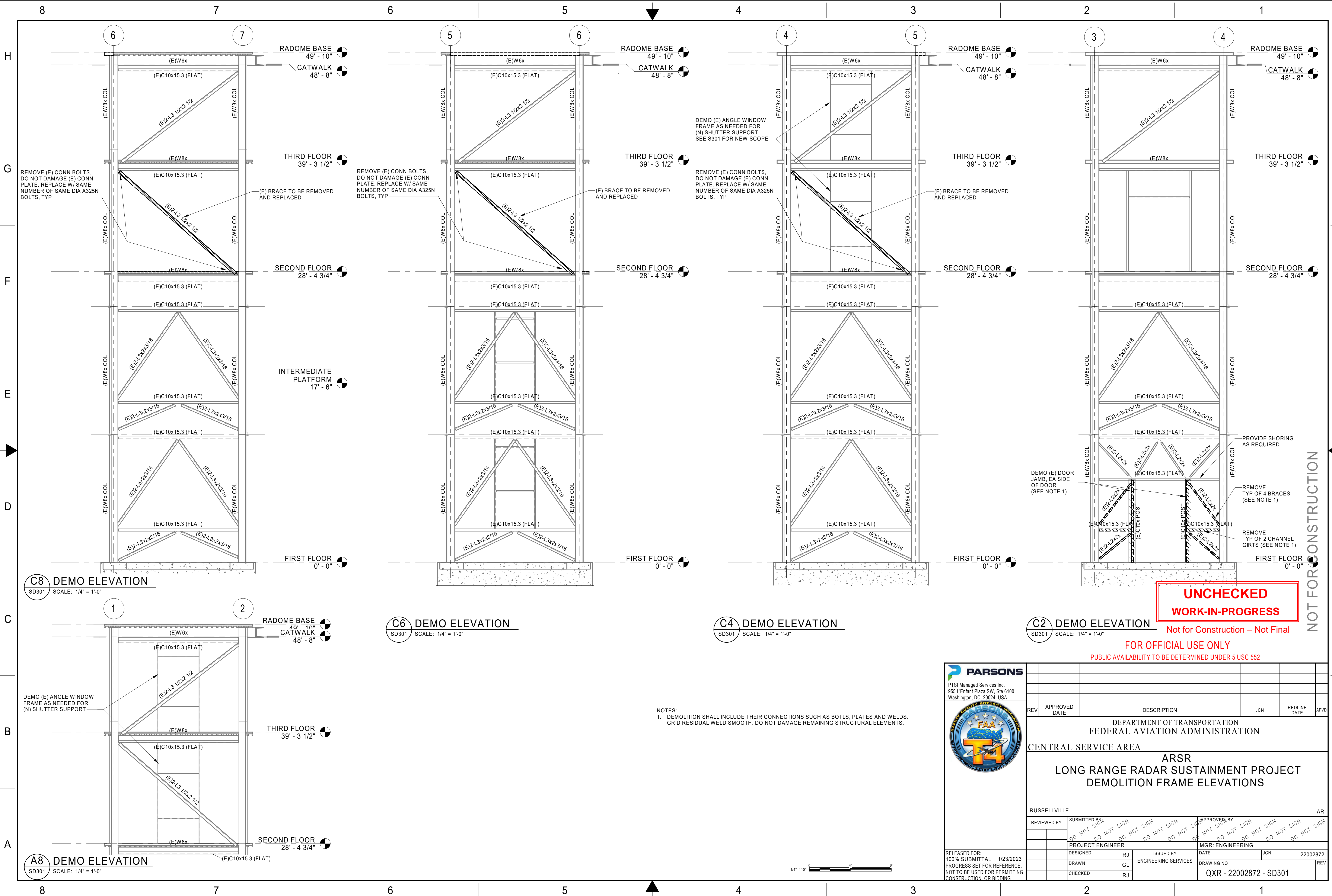
**PARSONS**  
PTSI Managed Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA



REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION CENTRAL SERVICE AREA ARSR LONG RANGE RADAR SUSTAINMENT PROJECT ROOF / RADOME BASE DEMOLITION PLAN					
RUSSELLVILLE AR					
DESIGNED	RJ	ISSUED BY	ENGINEERING SERVICES	DATE	JCN 22002872
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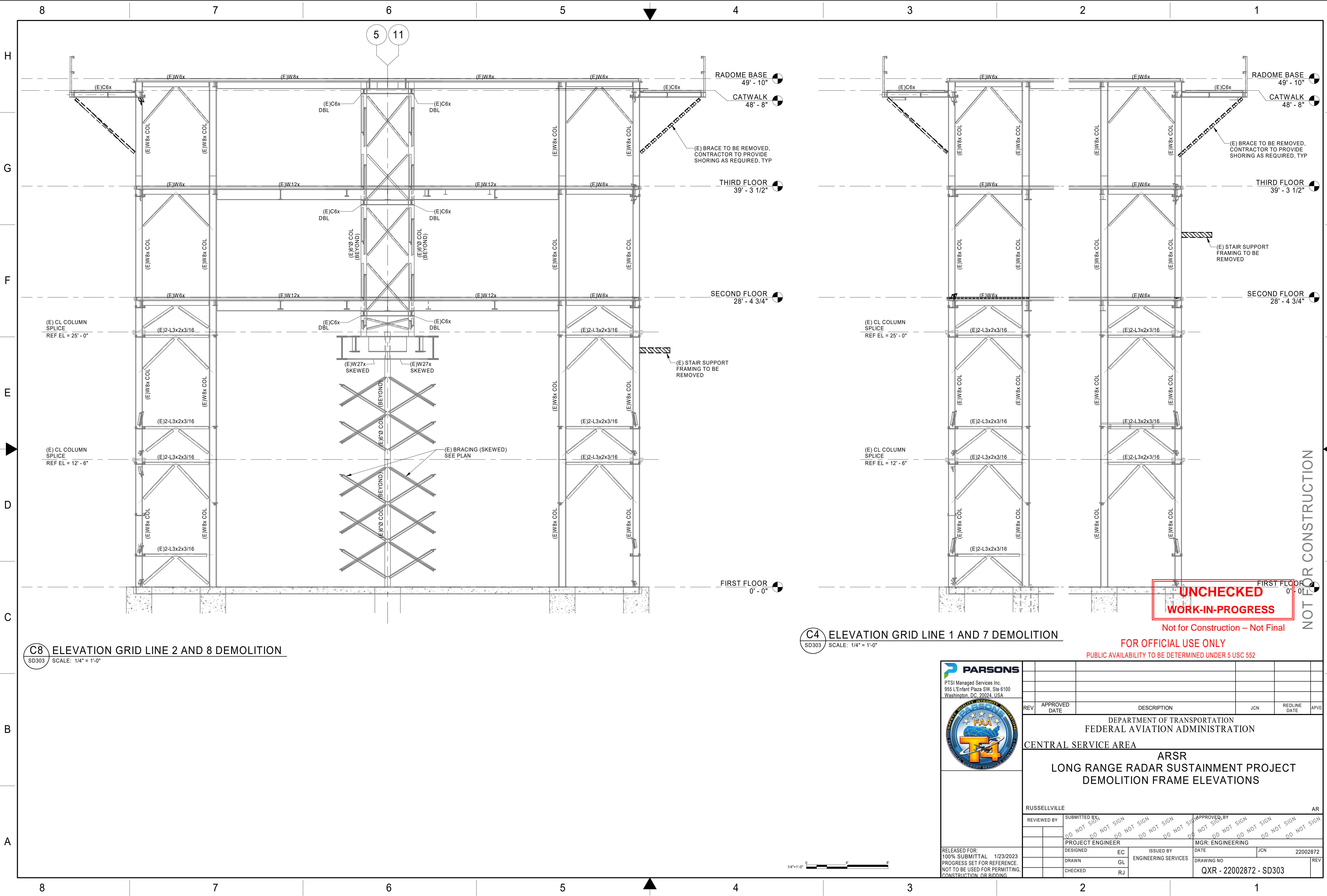






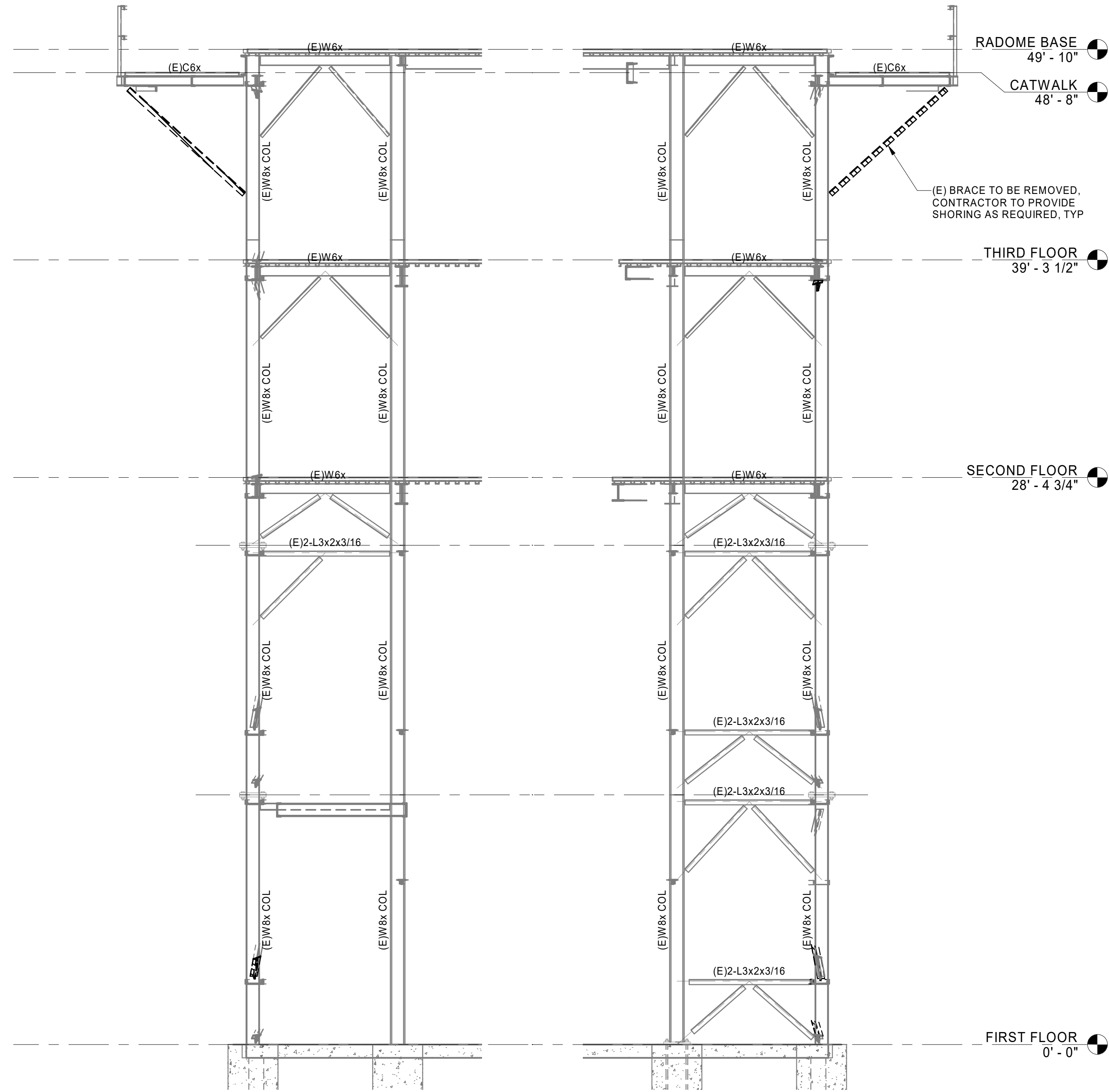




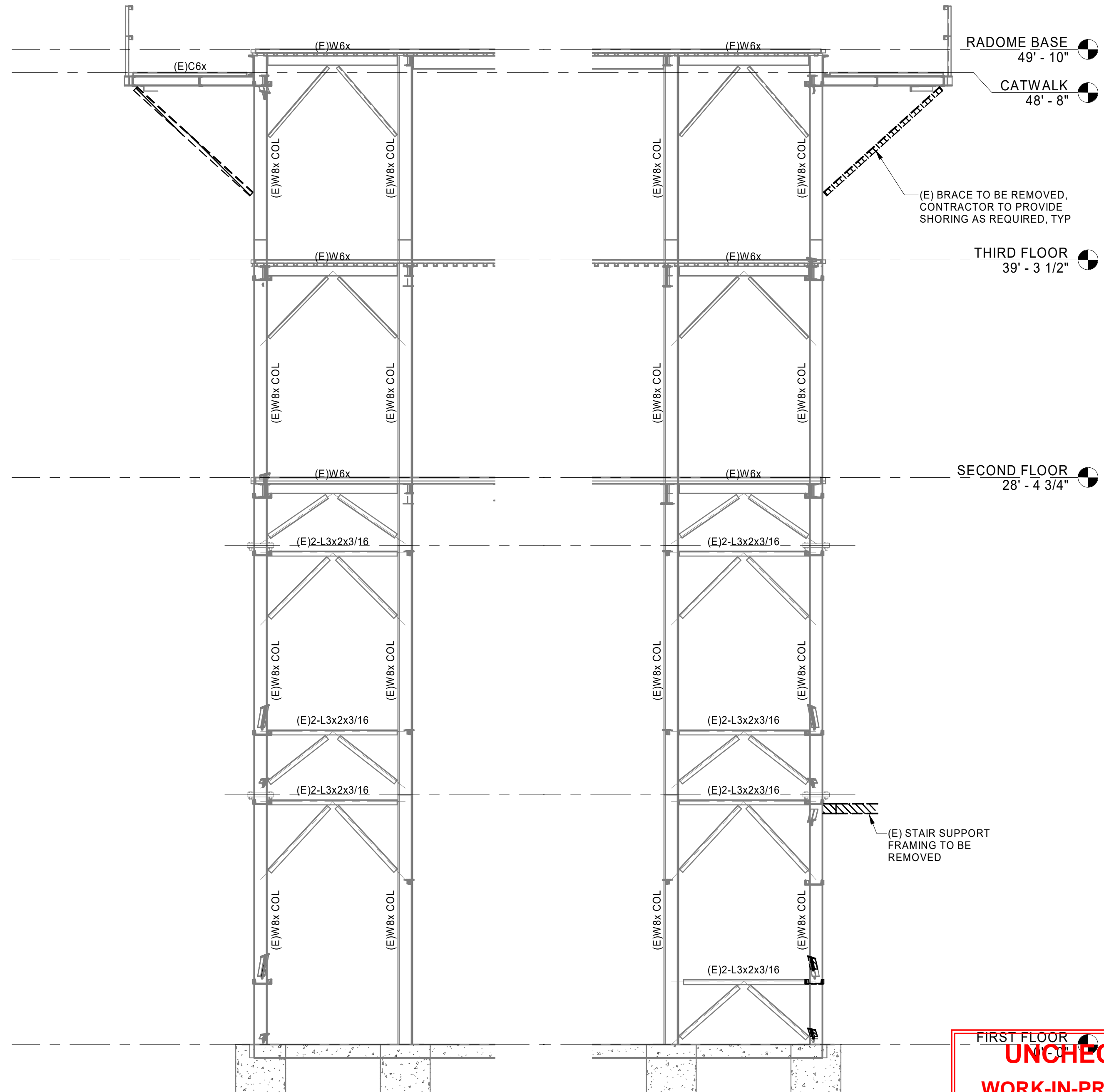




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**C8** ELEVATION GRID LINE 4 AND 10 DEMOLITION  
SD304 SCALE: 1/4" = 1'-0"



**C4** ELEVATION GRID LINE 3 AND 9 DEMOLITION  
SD304 SCALE: 1/4" = 1'-0"

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**WORK-IN-PROGRESS**

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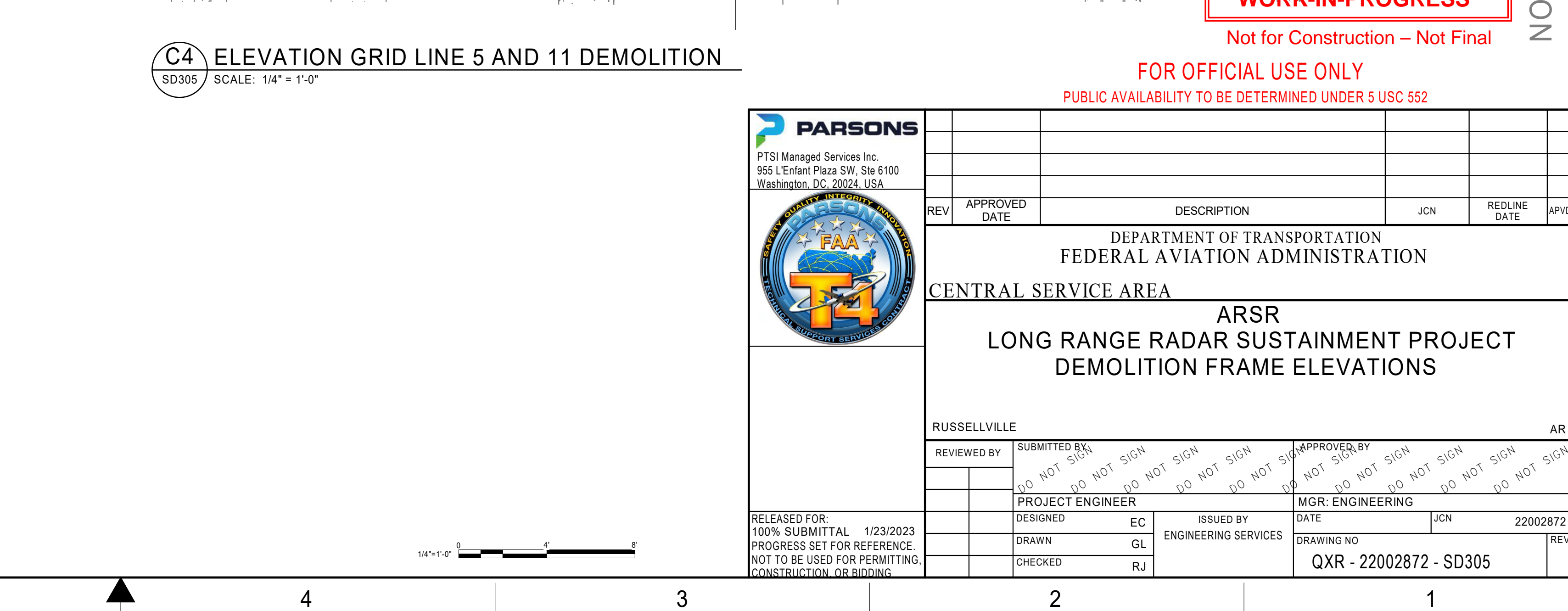
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RUSSELLVILLE AR									
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EC		GL		ENGINEERING SERVICES		DATE		JCN 22002872	
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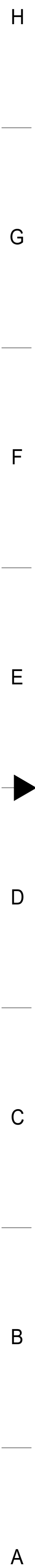


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CONSTRUCTION OR BIDDING

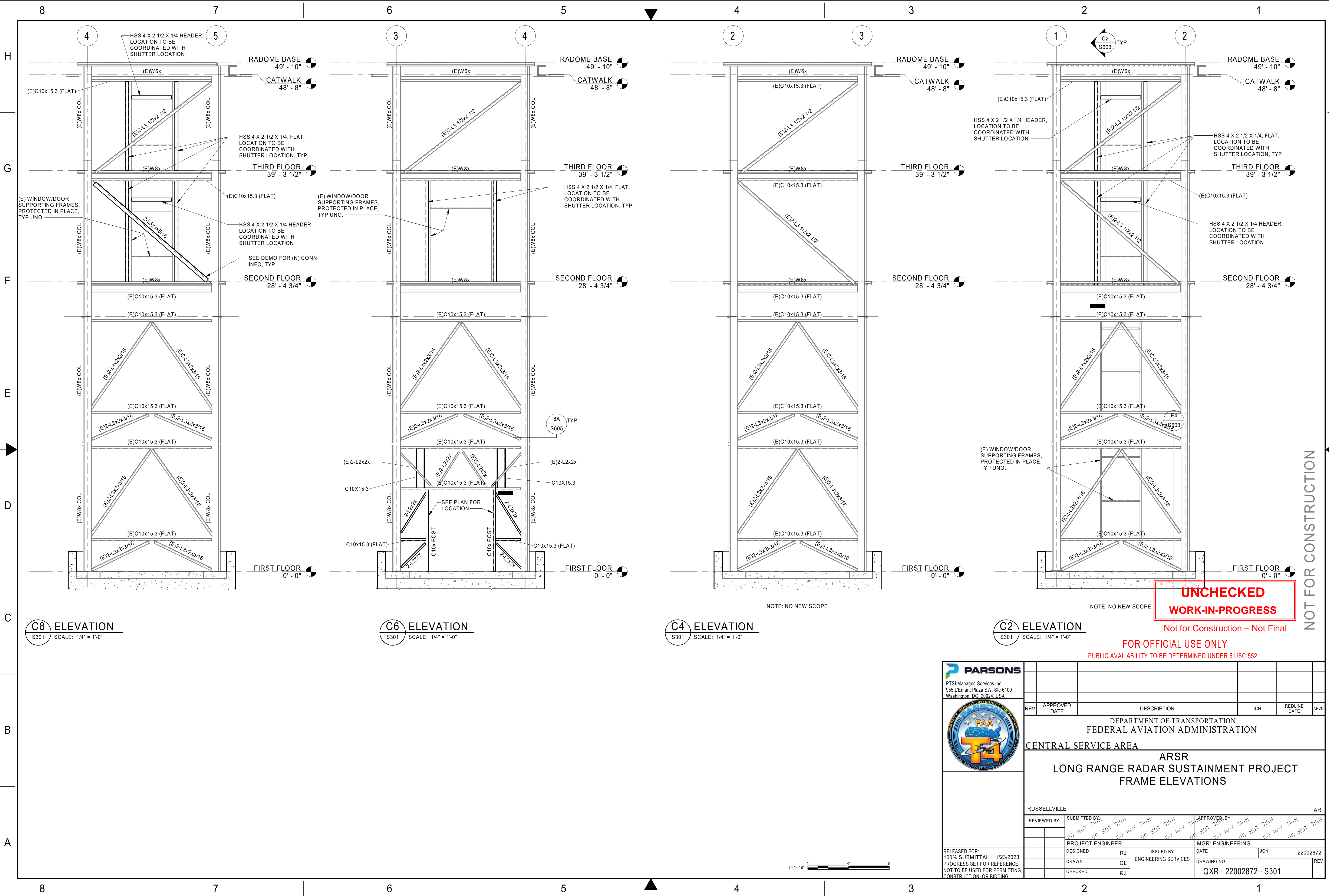












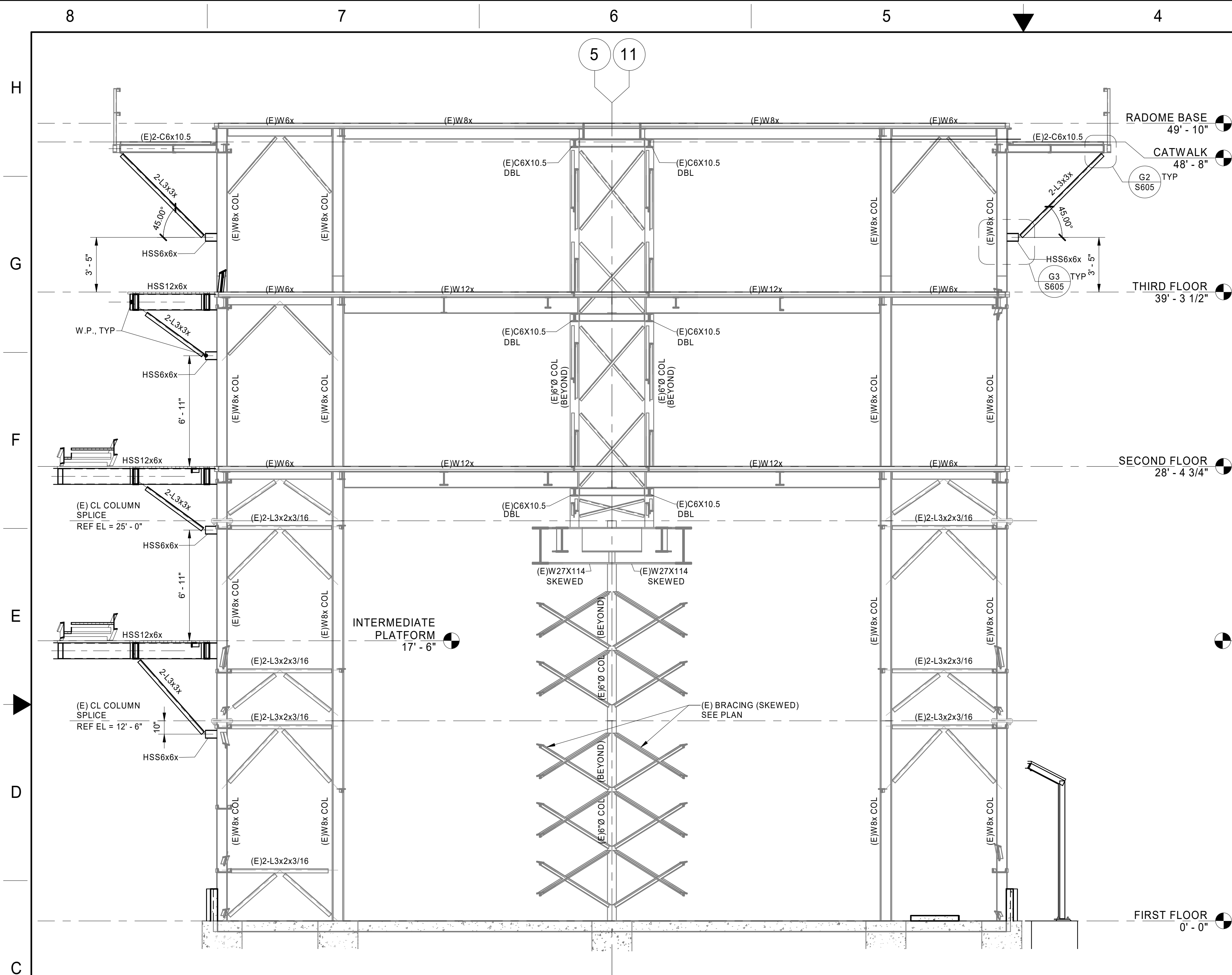




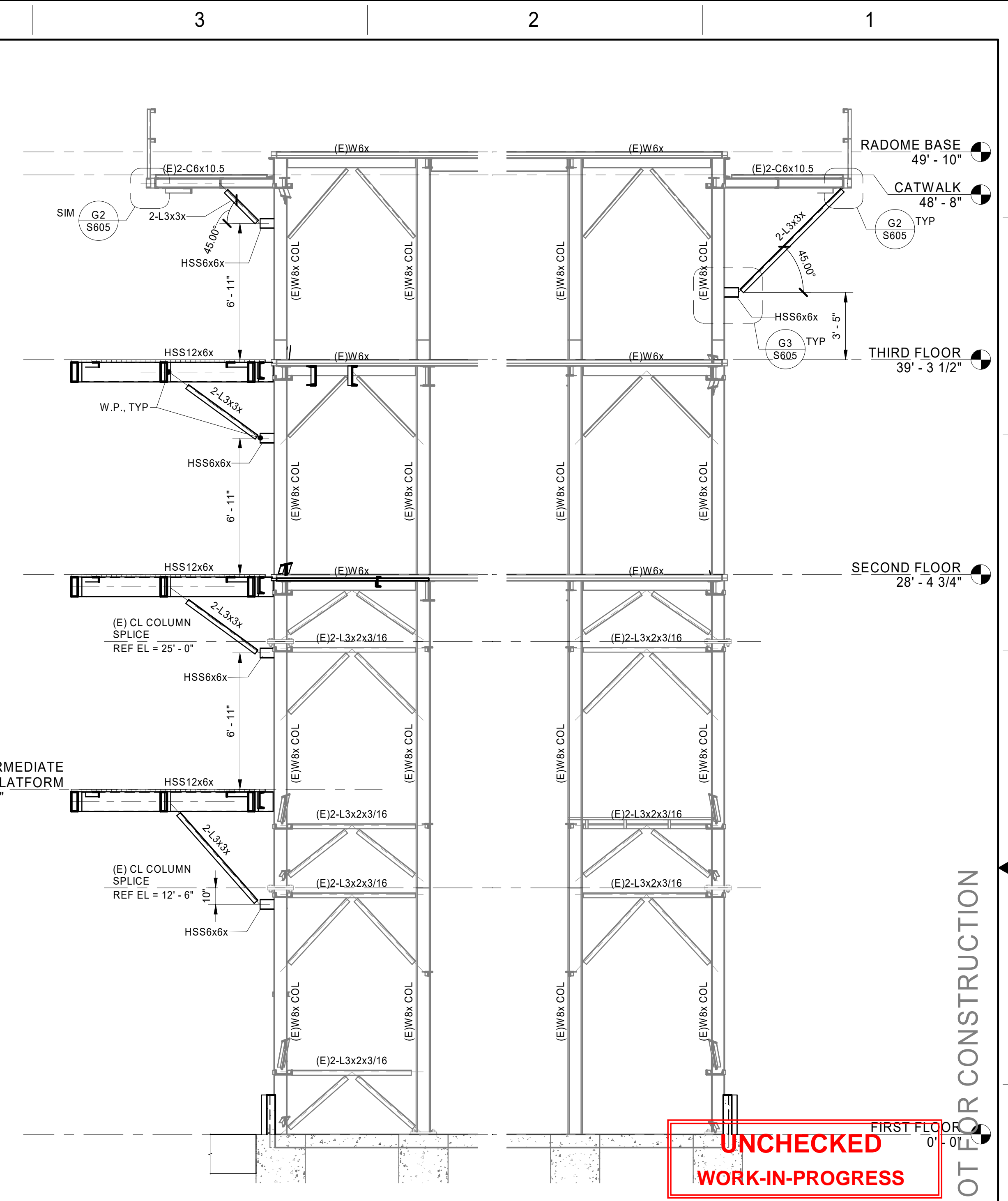








**C8** ELEVATION GRID LINE 2 AND 8  
S304 SCALE: 1/4" = 1'-0"



**C4** ELEVATION GRID LINE 1 AND 7  
S304 SCALE: 1/4" = 1'-0"

**UNCHECKED  
WORK-IN-PROGRESS**

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PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552



PTSI Managed Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA



REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD	
<p style="text-align: center;">DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</p> <p>CENTRAL SERVICE AREA</p> <p style="text-align: center;"><b>ARSR</b></p> <p style="text-align: center;"><b>LONG RANGE RADAR SUSTAINMENT PROJECT</b></p> <p style="text-align: center;"><b>FRAME ELEVATIONS</b></p>									
RUSSELLVILLE								AR	
REVIEWED BY	SUBMITTED BY					APPROVED BY			
	<i>DO NOT SIGN</i>					<i>DO NOT SIGN</i>			
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	<i>DO NOT SIGN</i>					<i>DO NOT SIGN</i>			
	PROJECT ENGINEER					MGR: ENGINEERING			
	DESIGNED	EC	ISSUED BY			DATE	JCN	22002872	
	DRAWN	GL	ENGINEERING SERVICES			DRAWING NO			
	CHECKED	RJ				XQR - 22002872 - S304		REV	

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100% SUBMITTAL 1/23/2023  
PROGRESS SET FOR REFERENCE.  
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CONSTRUCTION OR BIDDING

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

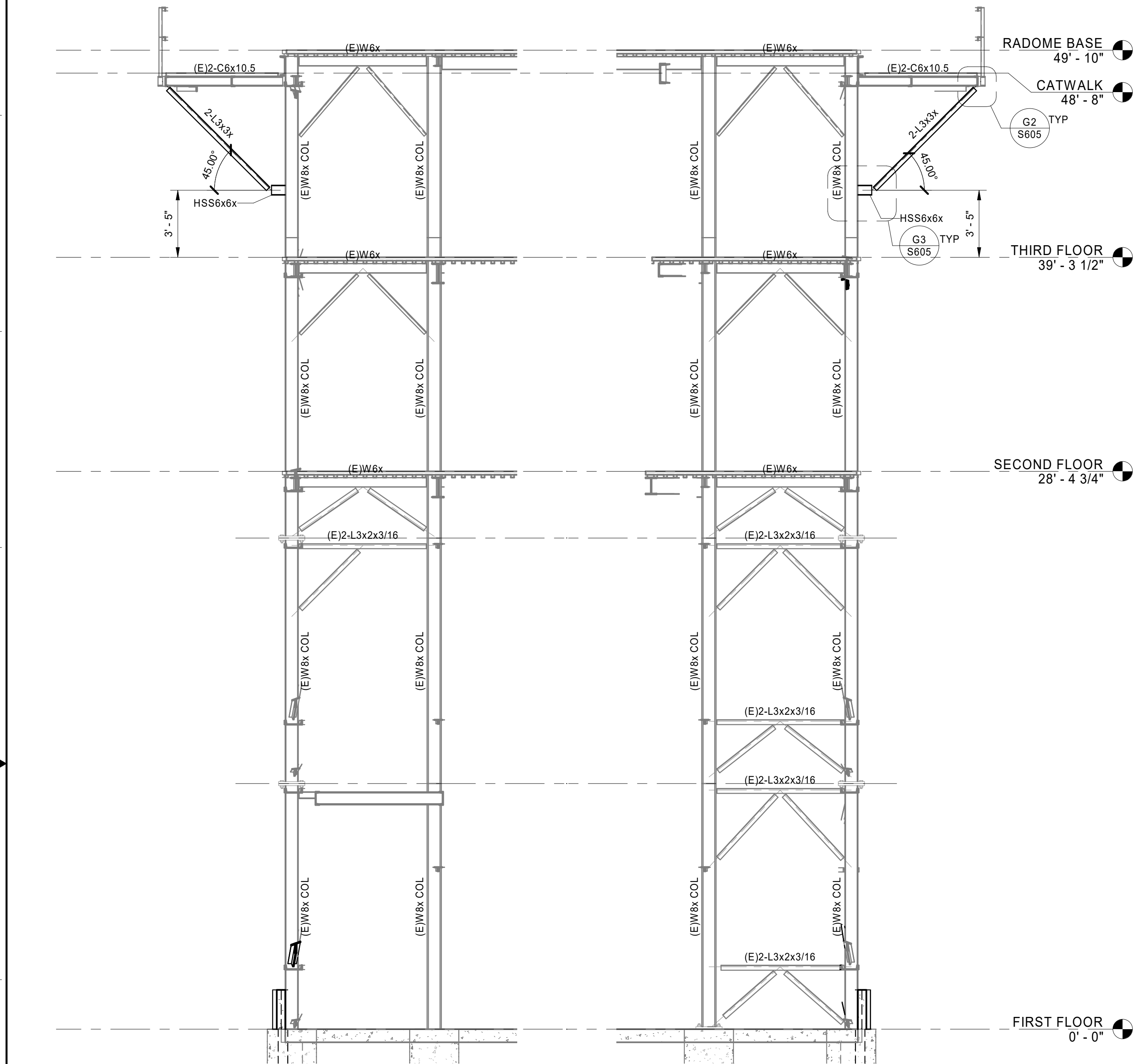
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ISSUED FOR: 100% SUBMITTAL

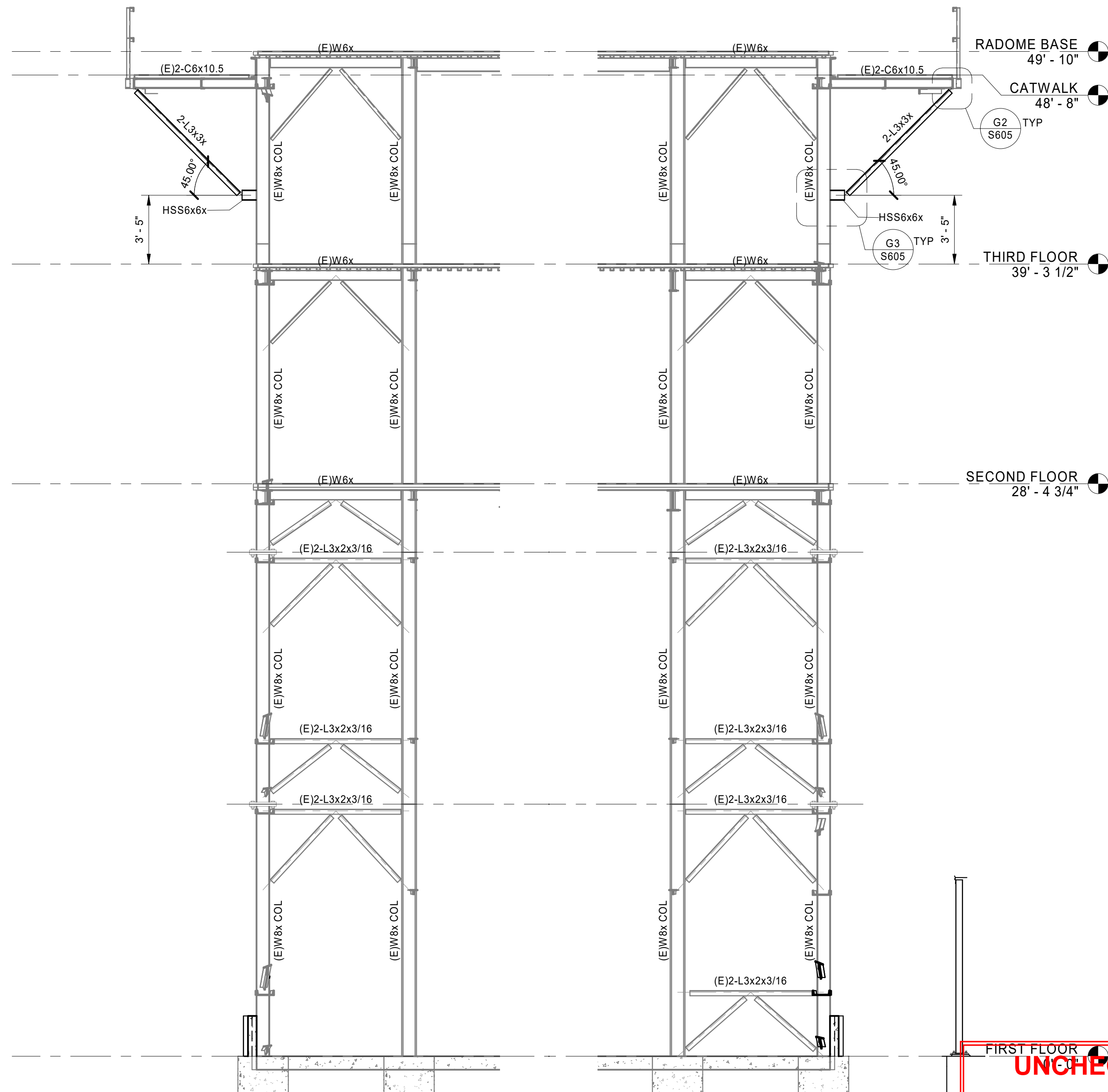
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**C8** ELEVATION GRID LINE 4 AND 10  
S305 SCALE: 1/4" = 1'-0"



**C4** ELEVATION GRID LINE 3 AND 9  
S305 SCALE: 1/4" = 1'-0"

**UNCHECKED**  
**WORK-IN-PROGRESS**  
Not for Construction – Not Final

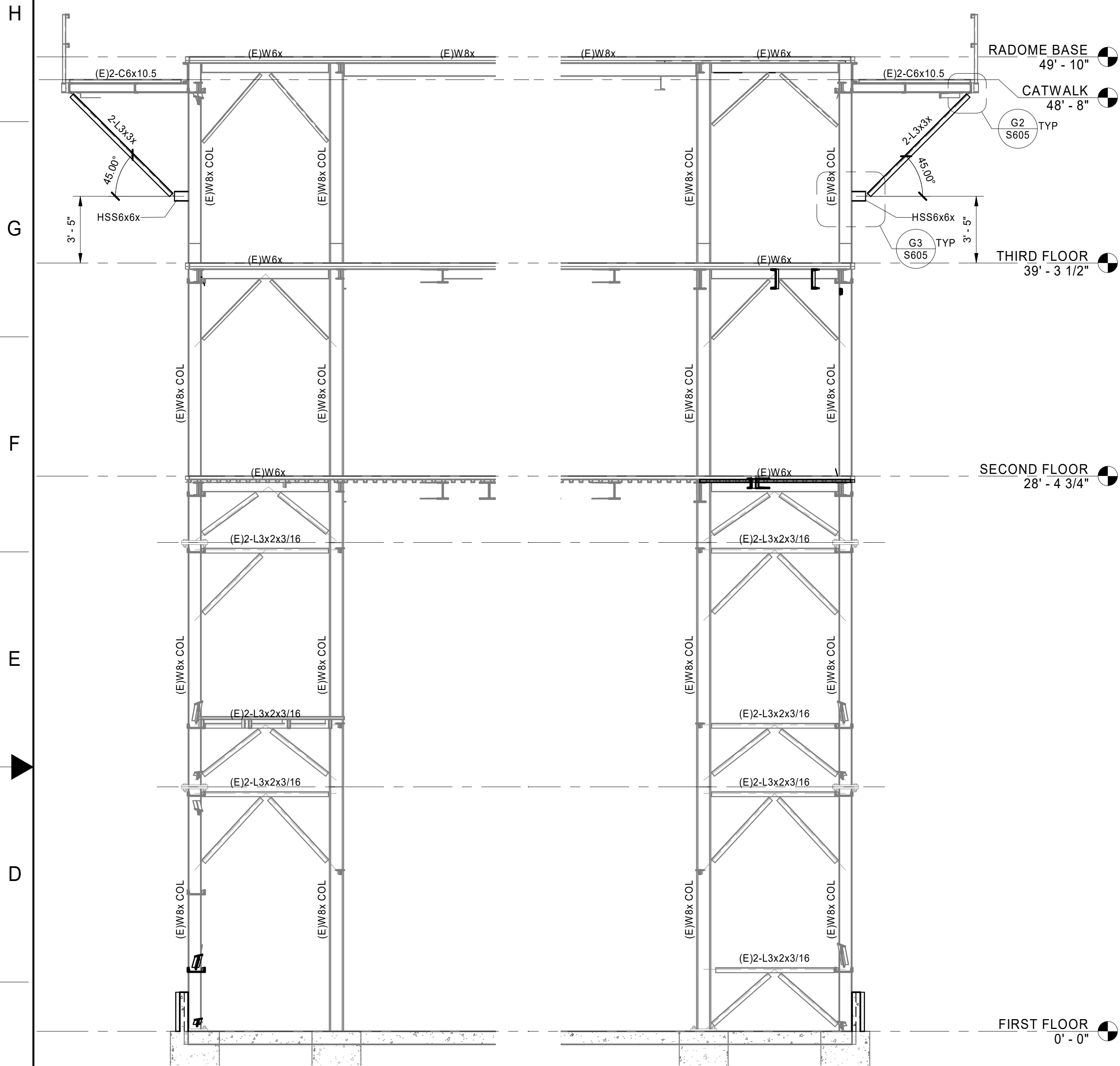
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PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

<b>PARSONS</b> PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA					
					
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION CENTRAL SERVICE AREA ARSR LONG RANGE RADAR SUSTAINMENT PROJECT FRAME ELEVATIONS					
RUSSELLVILLE AR					
REV	APPROVED DATE	DESCRIPTION		JCN	REDLINE DATE
DESIGNED BY: EC DRAWN: GL CHECKED: RJ					
ISSUED BY: ENGINEERING SERVICES DATE: 22002872 DRAWING NO: QXR - 22002872 - S305					

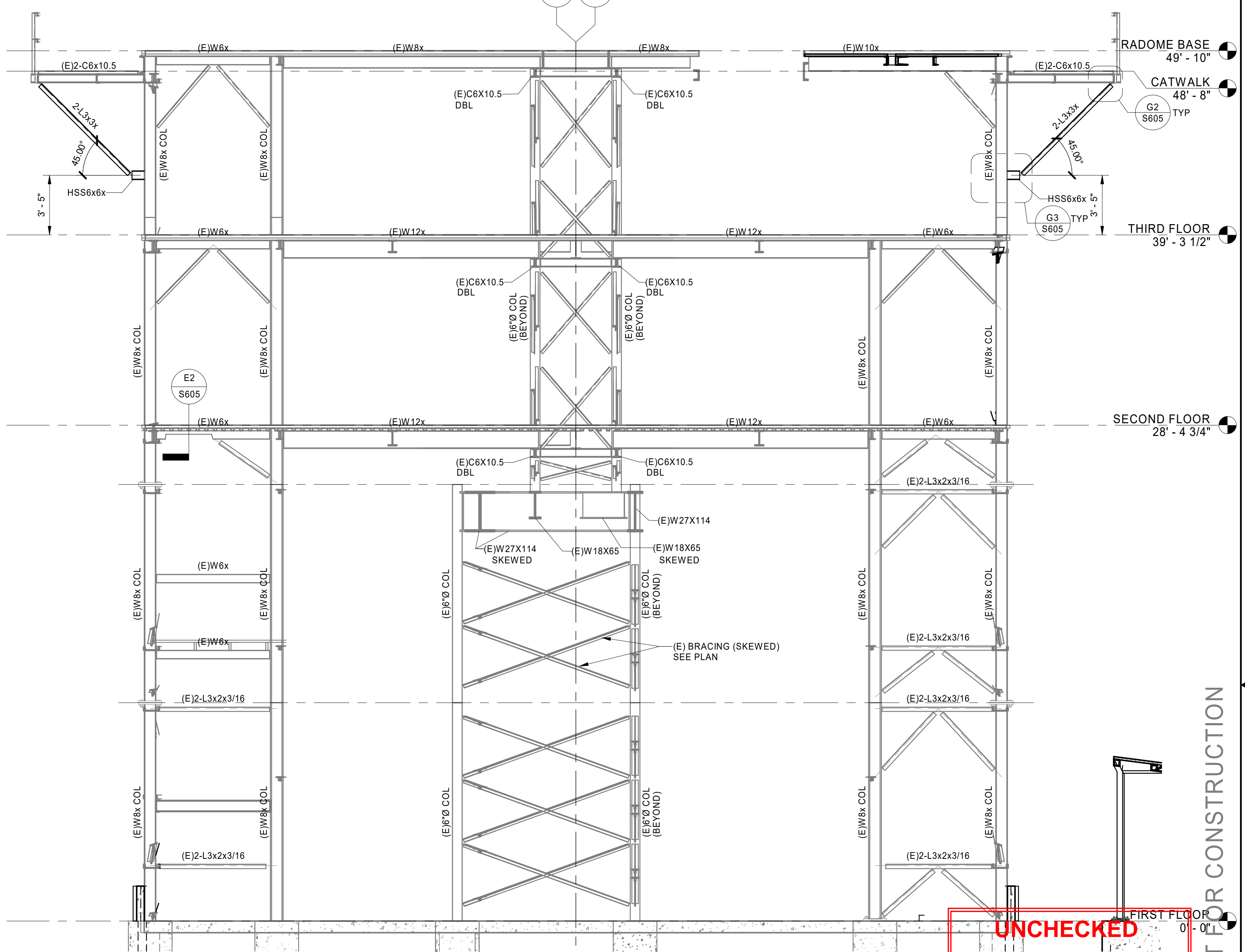
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**C8 ELEVATION GRID LINE 6 AND 12**  
S306 SCALE: 1/4" = 1'-0"

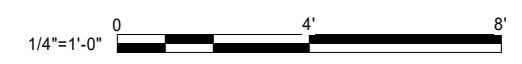


**C4 ELEVATION GRID LINE 5 AND 11**  
S306 SCALE: 1/4" = 1'-0"

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WORK-IN-PROGRESS**  
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION CENTRAL SERVICE AREA ARSR LONG RANGE RADAR SUSTAINMENT PROJECT FRAME ELEVATIONS					
RUSSELLVILLE AR					
REVIEWED BY	SUBMITTED BY	APPROVED BY		AR	
PROJECT ENGINEER		MGR: ENGINEERING			
DESIGNED	EC	ISSUED BY	JCN	22002872	
DRAWN	GL	ENGINEERING SERVICES	DRAWING NO	QXR - 22002872 - S306	
CHECKED	RJ		REV		



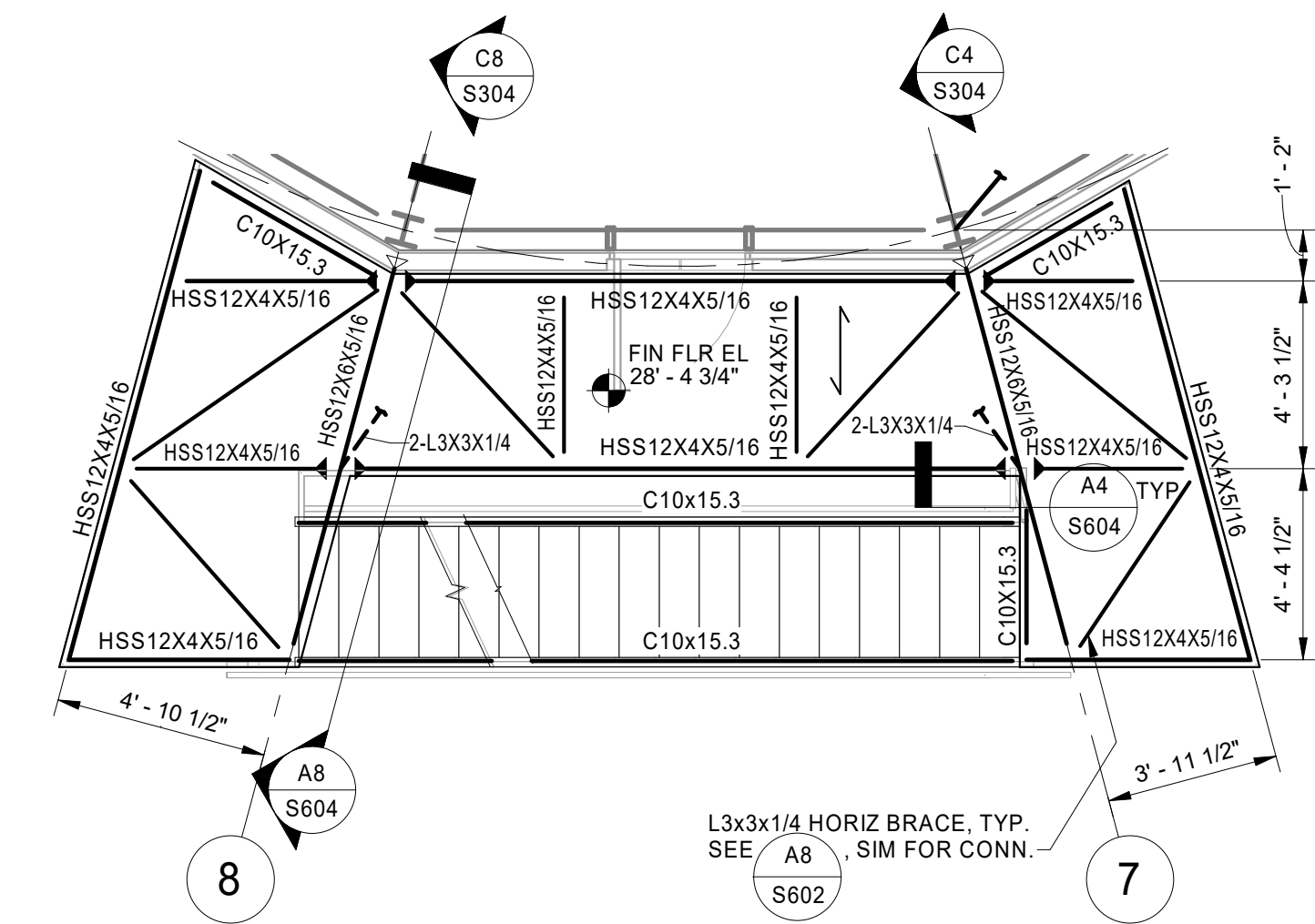
NOT FOR CONSTRUCTION

ISSUED FOR: 100% SUBMITTAL



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**F8 STAIR THIRD FLOOR PLAN**  
S401 SCALE: 1/4" = 1'-0" TOS EL = 39'-2", TYP UNO

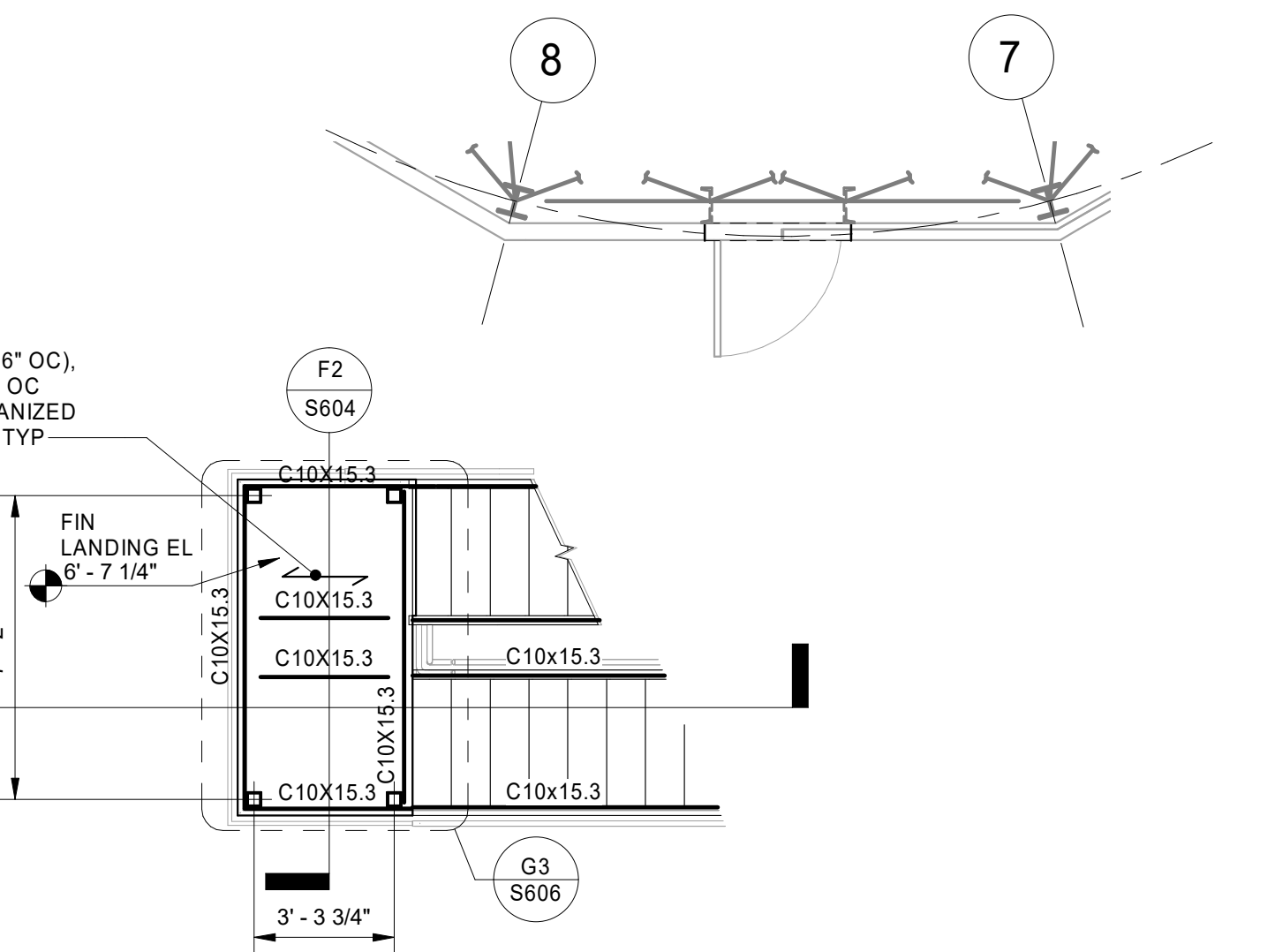


**C8 STAIR SECOND FLOOR PLAN**  
S401 SCALE: 1/4" = 1'-0" TOS EL = 28'-3 1/4", TYP UNO

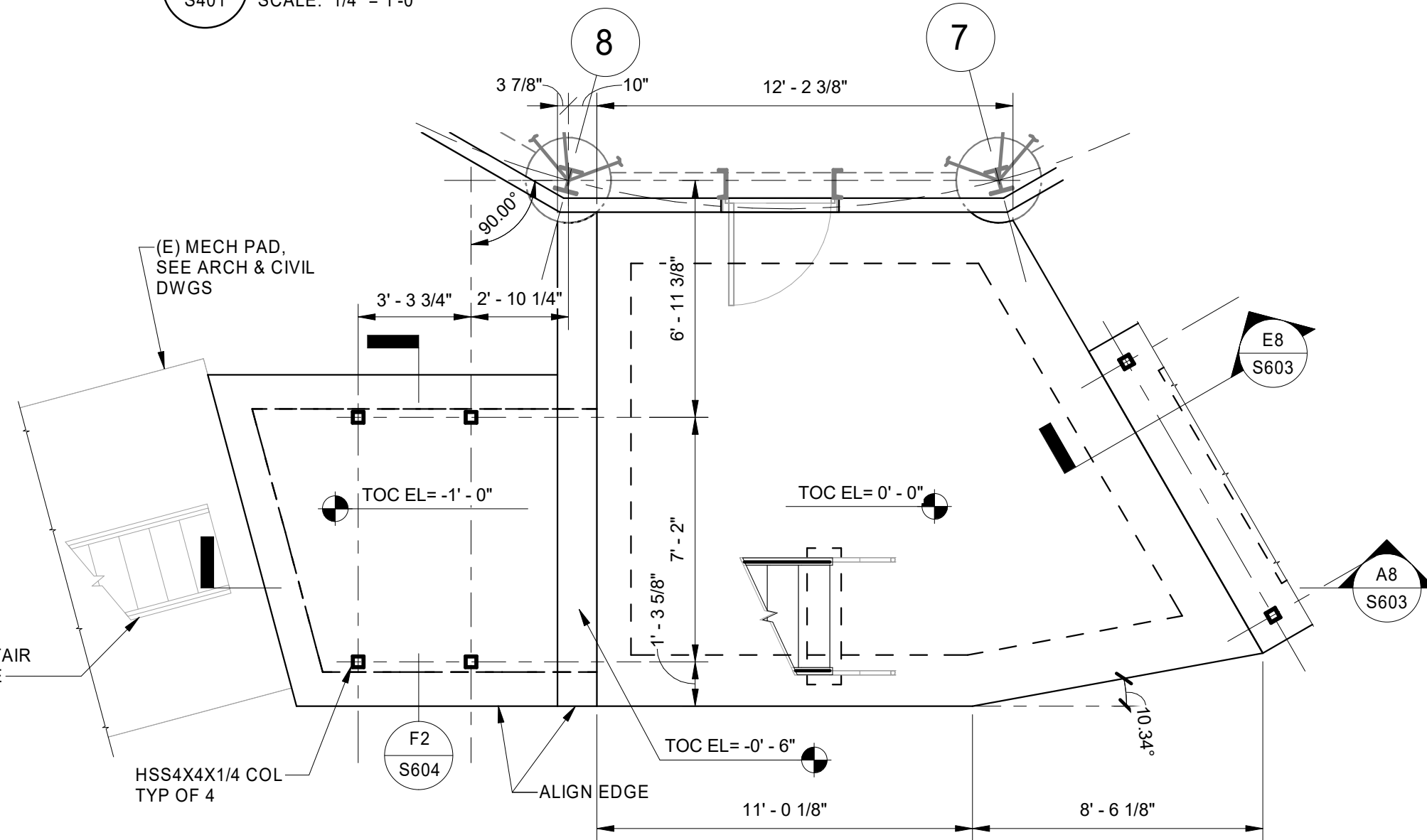
**GRATING NOTES:**

- GRATING SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW PRIOR TO FABRICATION.
- CONNECT UNSUPPORTED EDGES OF ADJACENT GRATES TO PREVENT DIFFERENTIAL MOVEMENTS.
- BAND ALL UNFINISHED EDGES AND PENETRATIONS OF GRATING.
- TOP OF GRATING SHALL BE PROVIDED WITH SLIP RESISTANT FINISH.
- DENOTES SPAN DIRECTION.
- THE MAIN CONNECTION OF THE GRATE TO THE SUPPORTING MEMBERS SHALL BE BOLTED SADDLE CLIPS. WELDING OR SCREWING SHALL NOT BE USED FOR THE MAIN CONNECTIONS. SPACING AS PER MANUFACTURING RECOMMENDATIONS. SEE DETAIL C4 S604.
- CLEAN ANY WELDS AND TOUCH UP WITH COLD GALVANIZING.

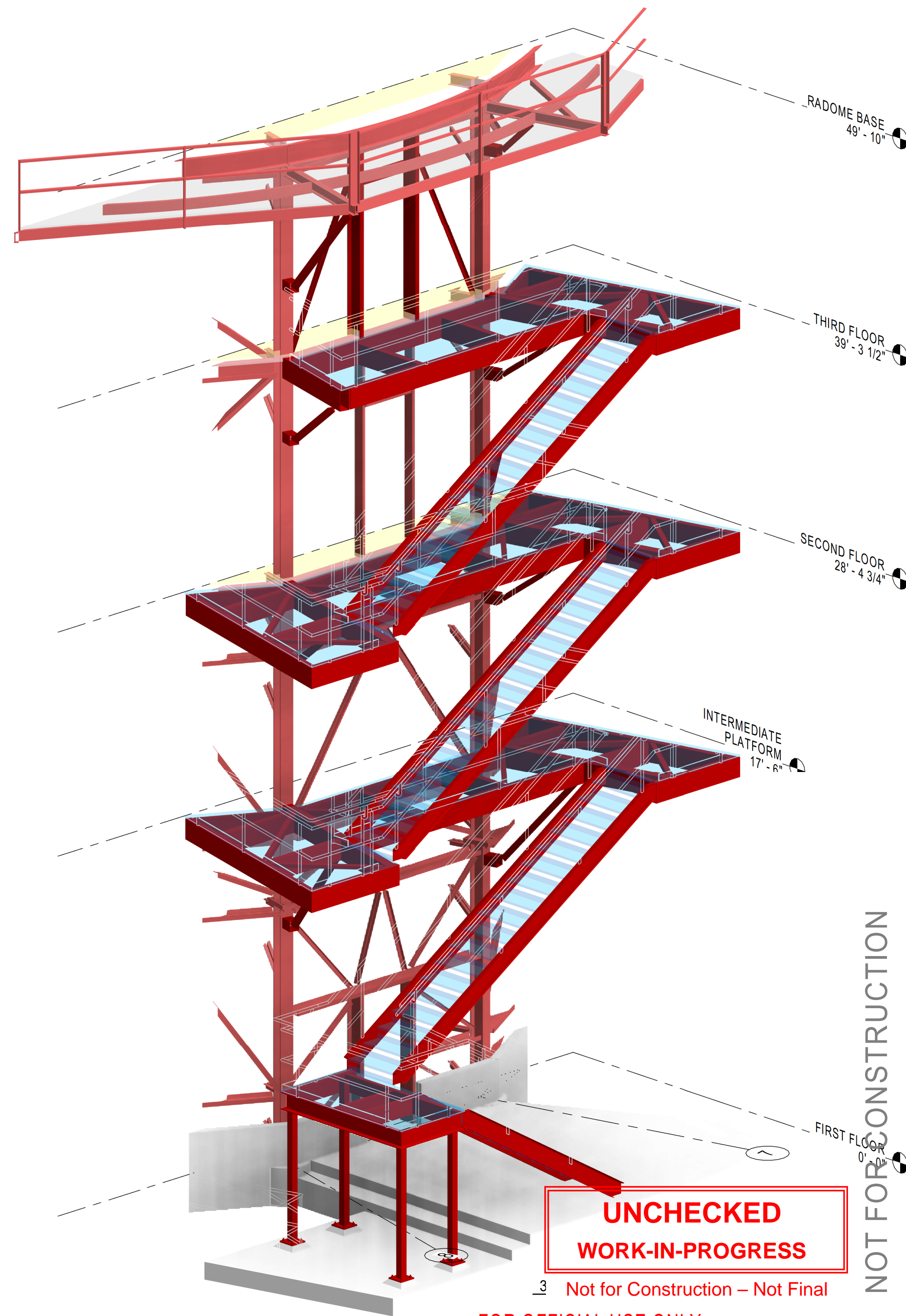
**F5 STAIR INTERMEDIATE PLATFORM**  
S401 SCALE: 1/4" = 1'-0" TOS EL = 17'-4 1/2", TYP UNO




**C5 STAIR LANDING PLAN AT FIRST FLOOR**  
S401 SCALE: 1/4" = 1'-0"



**A5 STAIR PLAN AT FIRST FLOOR**  
S401 SCALE: 1/4" = 1'-0"



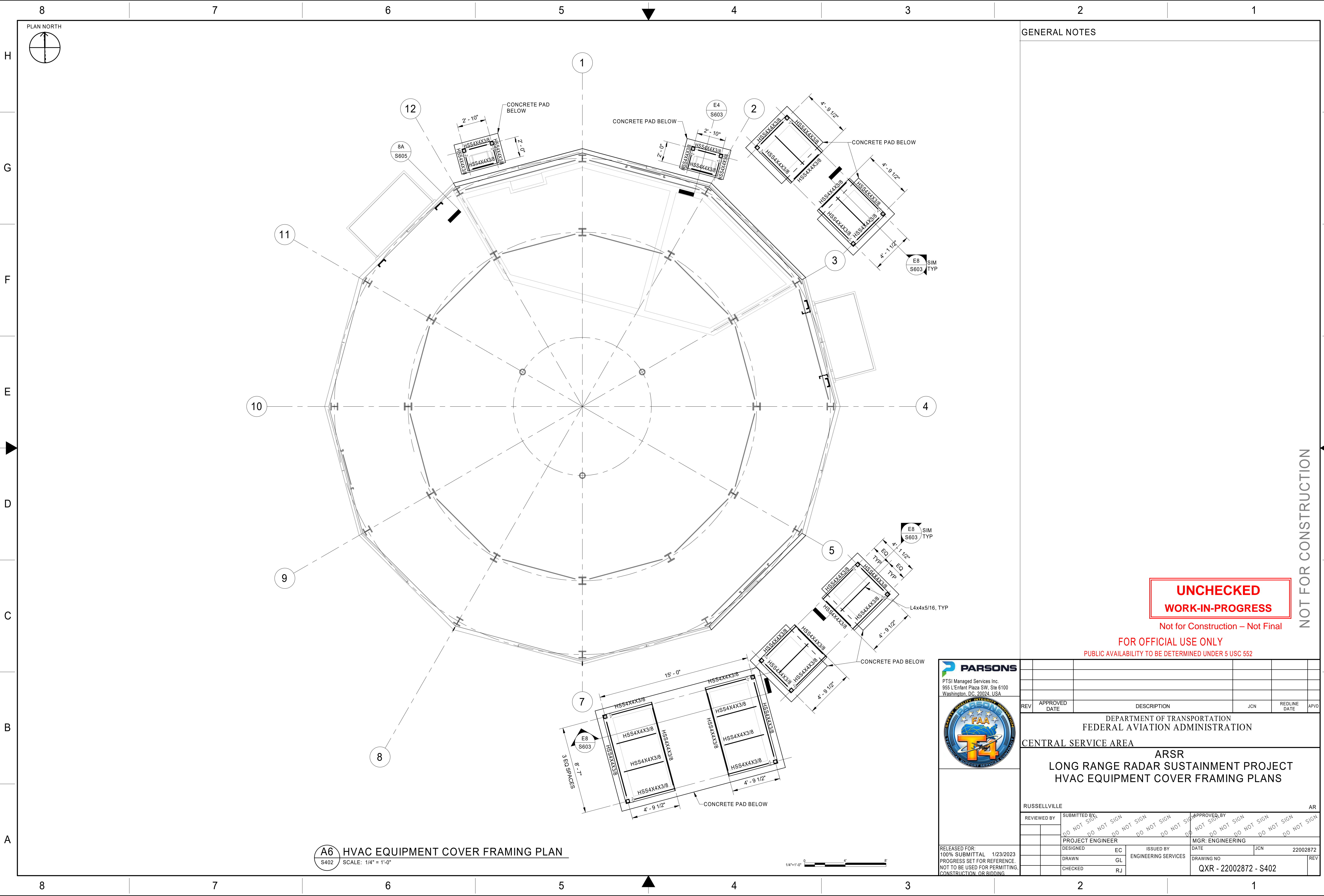
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<b>PARSONS</b> PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA		REV		APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
		DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION CENTRAL SERVICE AREA ARSR LONG RANGE RADAR SUSTAINMENT PROJECT STAIR FRAMING PLANS						
RUSSELLVILLE		AR						
REVIEWED BY		SUBMITTED BY		APPROVED BY		DATE		
DESIGNED		DO NOT SIGN		DO NOT SIGN		DO NOT SIGN		
PROJECT ENGINEER		DO NOT SIGN		DO NOT SIGN		DO NOT SIGN		
DRAWN		EC		ISSUED BY		JCN		
CHECKED		GL		ENGINEERING SERVICES		22002872		
RELEASED FOR: 100% SUBMITTAL 1/23/2023 PROGRESS SET FOR REFERENCE. NOT TO BE USED FOR PERMITTING, CONSTRUCTION OR BIDDING		MGR: ENGINEERING		DRAWING NO		REV		
		QXR - 22002872 - S401						

NOT FOR CONSTRUCTION

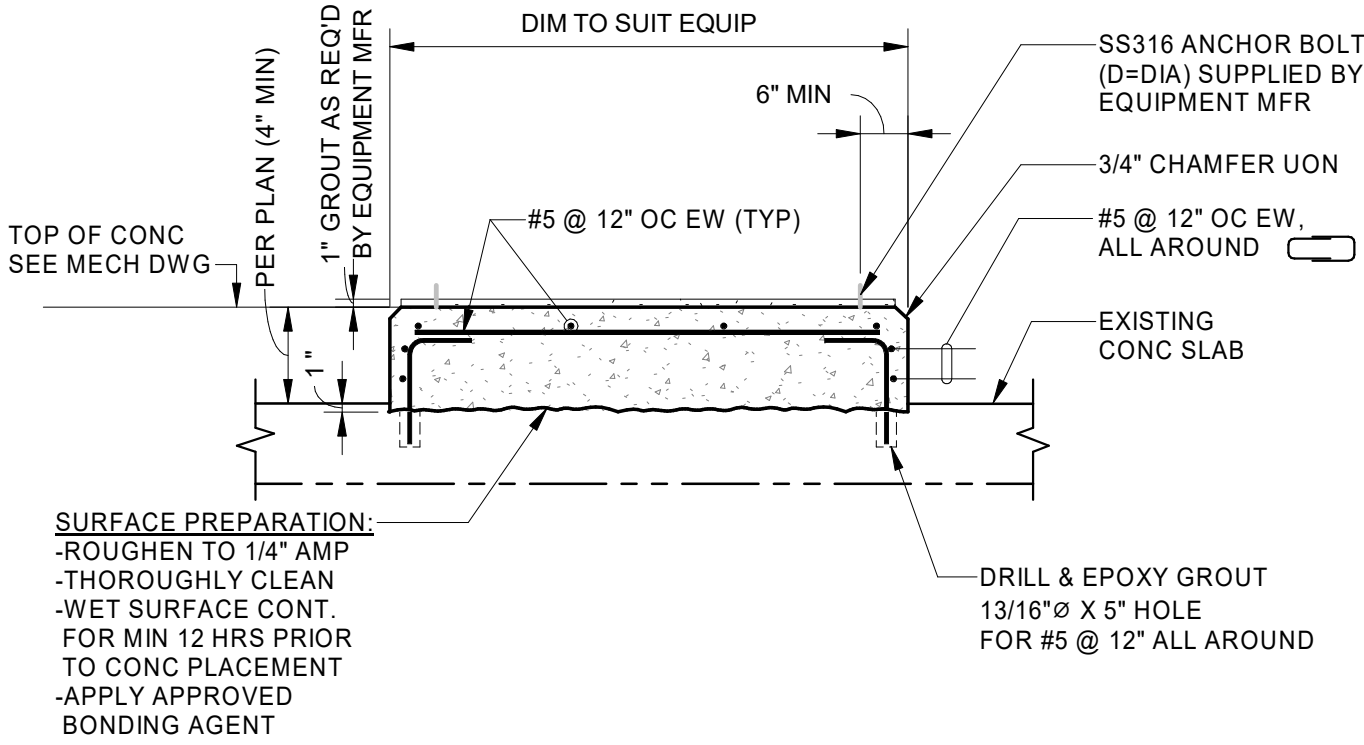
ISSUED FOR: 100% SUBMITTAL





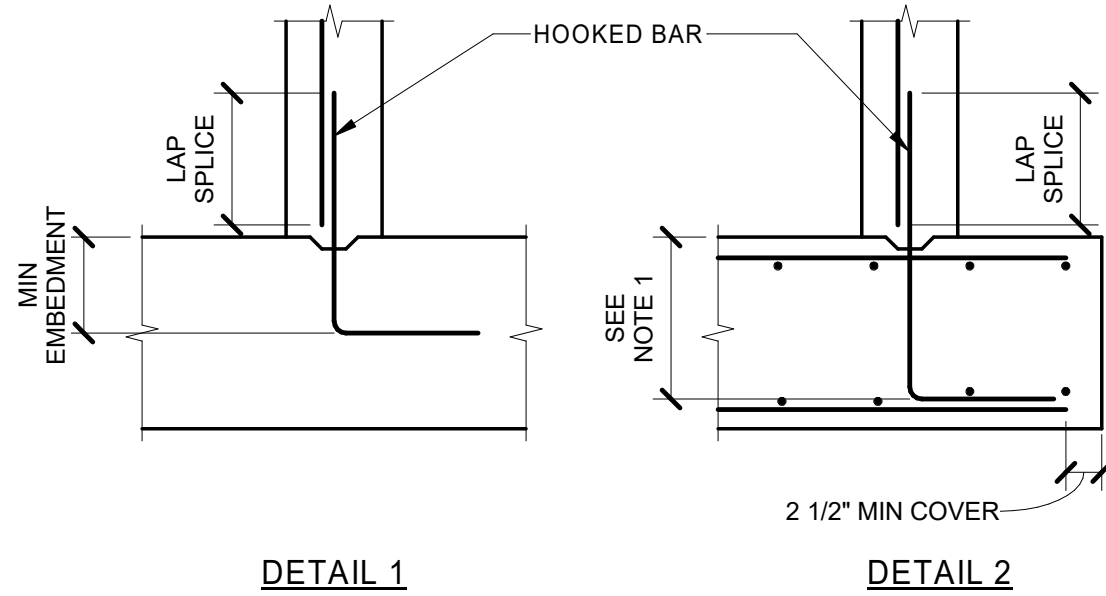
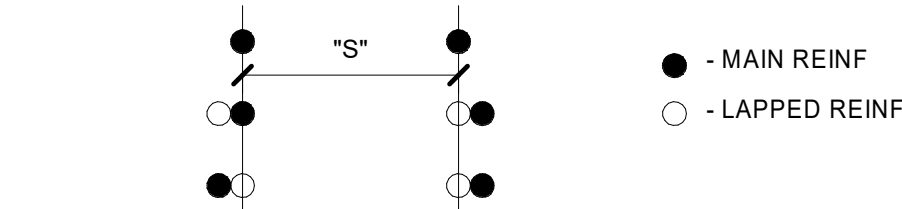


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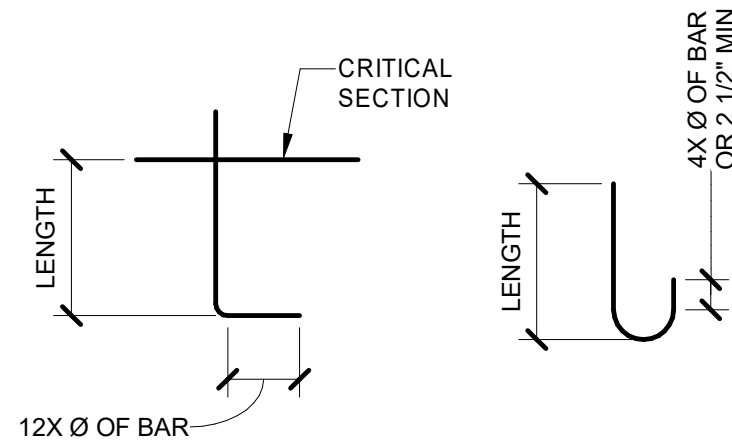


- NOTES:**
- COORDINATE WITH EQUIPMENT SUPPLIER FOR DELEGATED EQUIPMENT ANCHORAGE DESIGN, REQUIRED STRUCTURAL CALCULATIONS, STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL STRUCTURAL ENGINEER, LICENSED IN THE STATE OF UTAH, TO BE SUBMITTED FOR FAA REVIEW AND APPROVAL.
  - ALL EQUIPMENT ANCHORS SHALL BE STAINLESS STEEL, TYPE 316.
  - EQUIPMENT ANCHORS SHALL BE EITHER CAST-IN-PLACE OR POST INSTALLED EPOXY TYPE. EXPANSION TYPE ANCHORS ARE NOT PERMITTED FOR EXTERIOR CONDITIONS.

**F8 CONCRETE PAD DETAIL**  
S601 SCALE: NOT TO SCALE



- DEVELOPMENT LENGTH NOTES:**
- WHERE DWGS ARE DETAILED SIMILIAR TO DETAIL 2, EXTEND THE EMBEDMENT LENGTH SUCH THAT THE HOOKED BAR CONTACTS THE LAYER OF MAIN REINFORCING SHOWN.
  - EMBEDMENT LENGTHS IN CHART ARE TYPICAL EXCEPT AS NOTED IN DETAIL 2, OR AS INDICATED ON DRAWINGS.



RADIUS OF HOOK (DEVELOPMENT, UNO):  
6X Ø OF BAR - #3 TO #8 BARS  
8X Ø OF BAR - #9 TO #11 BARS  
10X Ø OF BAR - #14 & #18 BARS

RADIUS OF HOOK (STIRRUPS/TIES/HOOPS):  
4X Ø OF BAR - #3 TO #5 BARS  
6X Ø OF BAR - #6 TO #8 BARS

REINFORCING DEVELOPMENT LENGTHS TYPE A (NORMAL WEIGHT) = 4000psi					
BAR SIZE	DEVELOPMENT LENGTH		SPLICE LENGTH		HOOK LENGTH
	TOP BAR	OTHER	TOP BAR	OTHER	
#3	18"	14"	24"	18"	7"
#4	25"	19"	32"	25"	9"
#5	31"	24"	40"	31"	12"
#6	37"	28"	48"	37"	14"
#7	54"	42"	70"	54"	17"
#8	62"	47"	80"	62"	19"
#9	70"	54"	90"	70"	21"
#10	78"	60"	102"	78"	24"
#11	87"	67"	113"	87"	27"

**A8 TYPICAL REINFORCEMENT DEVELOPMENT LENGTHS**  
S601 SCALE: NOT TO SCALE

**A4 TYPICAL HOOK DEVELOPMENT LENGTH**  
S601 SCALE: NOT TO SCALE

- TYPICAL REINFORCING NOTES:**
- REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTHS SHALL BE AS SHOWN IN THESE TABLES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
  - THE LENGTHS SHOWN IN THE TABLES ARE BASED ON THE FOLLOWING CONCRETE COVERAGE AND REINFORCING C-C SPACING:
    - BEAMS OR COLUMNS: COVER ≥ 1.0bd (BAR DIAMETER)
    - CENTER TO CENTER (C-C) SPACING ≥ 2.0bd
    - ALL OTHERS: COVER ≥ 1.0bd
    - CENTER TO CENTER SPACING ≥ 3.0 bd
  - TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE. VERTICAL BARS MAY BE CLASSIFIED AS OTHER.
  - THE DEVELOPMENT AND SPLICE LENGTHS SHOWN SHALL NOT APPLY IF ANY OF THE FOLLOWING CONDITIONS OCCUR:
    - A.  $f_c < 4000$  psi
    - B.  $f_y > 60,000$  psi
    - C. THE COVER OR C-C BAR SPACING IS NOT AS LISTED ABOVE.
    - D. THE REINFORCING STEEL IS EPOXY COATED.
  - WHERE BAR SPLICES ARE STAGGERED SUCH THAT ONE-HALF OR LESS OF TOTAL REINFORCEMENT IS SPLICED WITHIN REQUIRED LAP LENGTH. SPLICE LENGTH MAY EQUAL DEVELOPMENT LENGTH.
  - CENTER TO CENTER SPACING(S) IS DEFINED DETAIL 1 AND 2 ABOVE.

**UNCHECKED  
WORK-IN-PROGRESS**  
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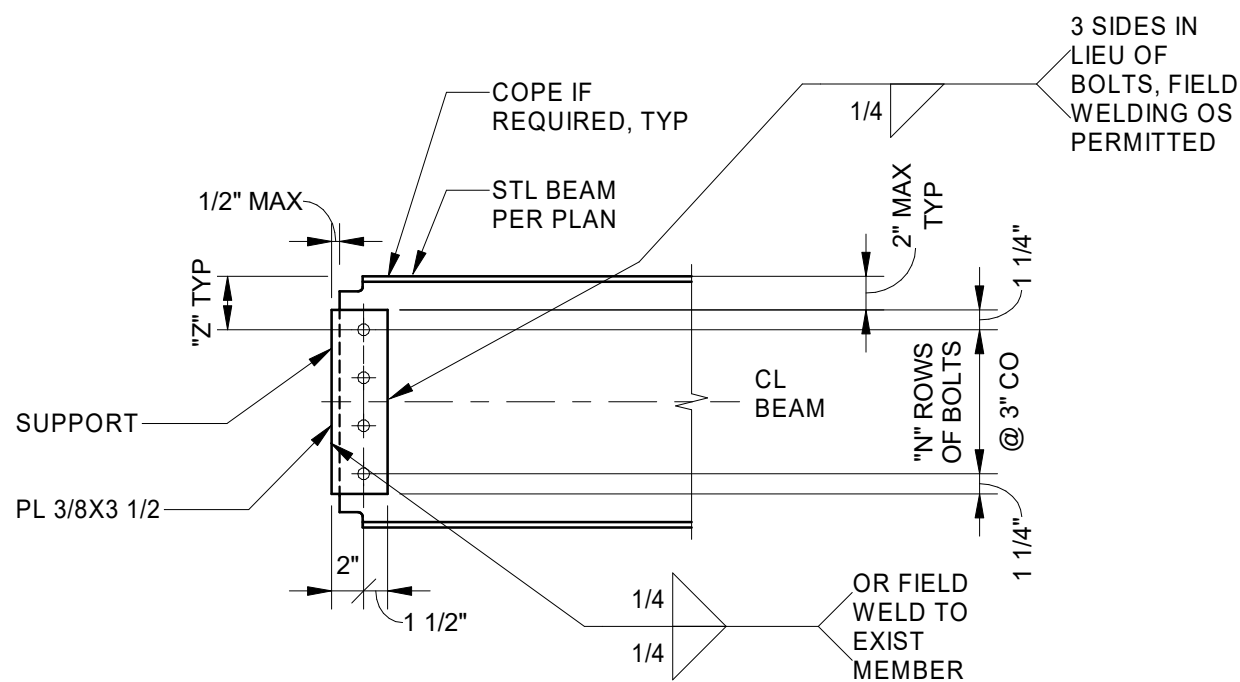
<b>PARSONS</b> PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA					
REV	APPROVED DATE	DESCRIPTION		JCN	REDLINE DATE
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
CENTRAL SERVICE AREA					
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT STANDARD CONCRETE DETAILS					
RUSSELLVILLE AR					
REVIEWED BY	SUBMITTED BY		APPROVED BY		
	DO NOT SIGN		DO NOT SIGN		
PROJECT ENGINEER		MGR: ENGINEERING			
DESIGNED	EC	ISSUED BY	DATE	JCN	22002872
DRAWN	JB	ENGINEERING SERVICES	DRAWING NO		
CHECKED	RJ		QXR - 22002872 - S601		REV
RELEASED FOR: 100% SUBMITTAL 1/23/2023 PROGRESS SET FOR REFERENCE. NOT TO BE USED FOR PERMITTING, CONSTRUCTION, OR BIDDING					

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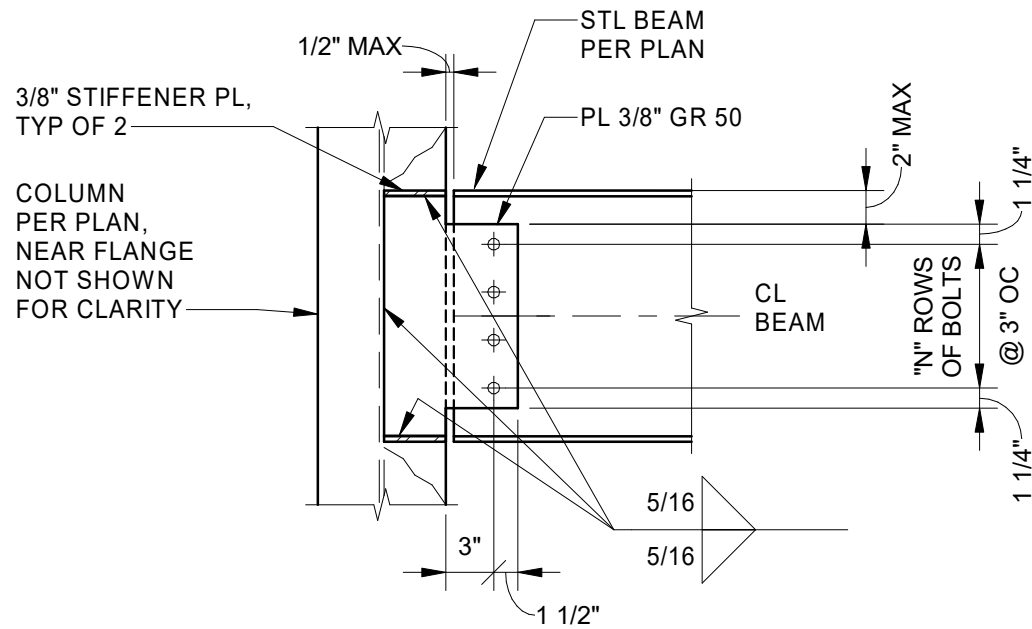
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TYP CONNECTION



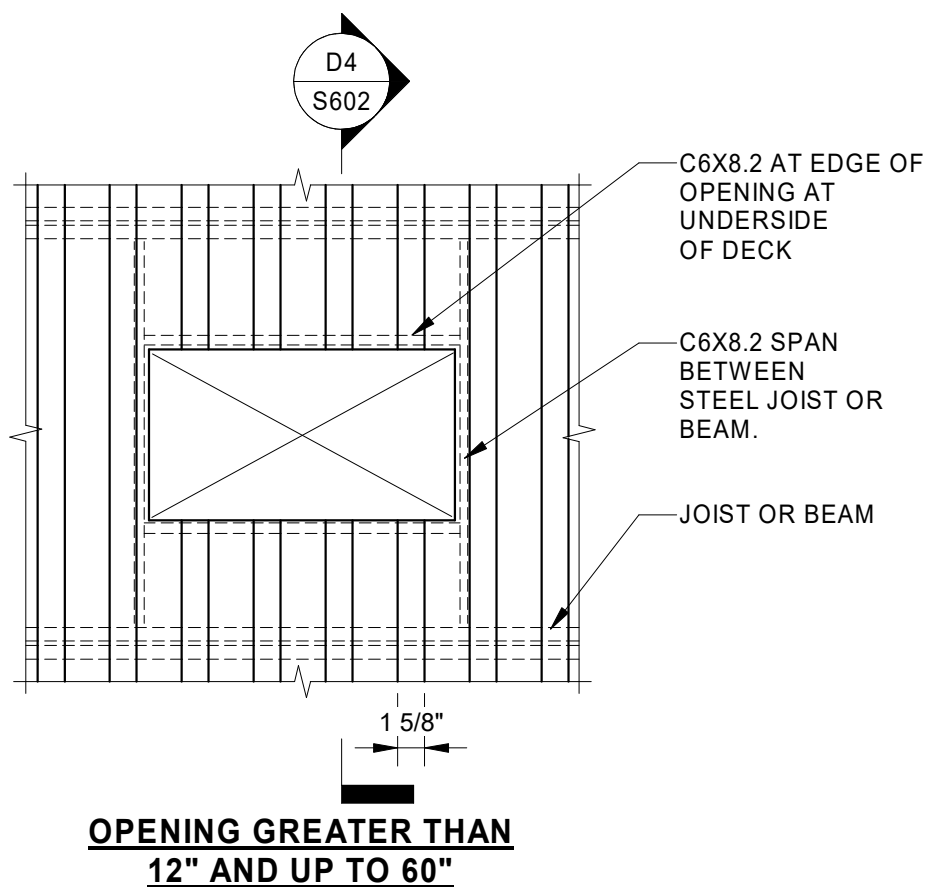
EXTENDED PLATE CONNECTION/STANDARD CONNECTION AT COLUMN WEB

MEMBER SIZE	"N" UNO
W30, W33	7
W27, W24	6
W21	5
W16, W18	4
W12, W14	3
W8, W10, C10	2
C6, L3	2 HORIZONTALLY SPACED

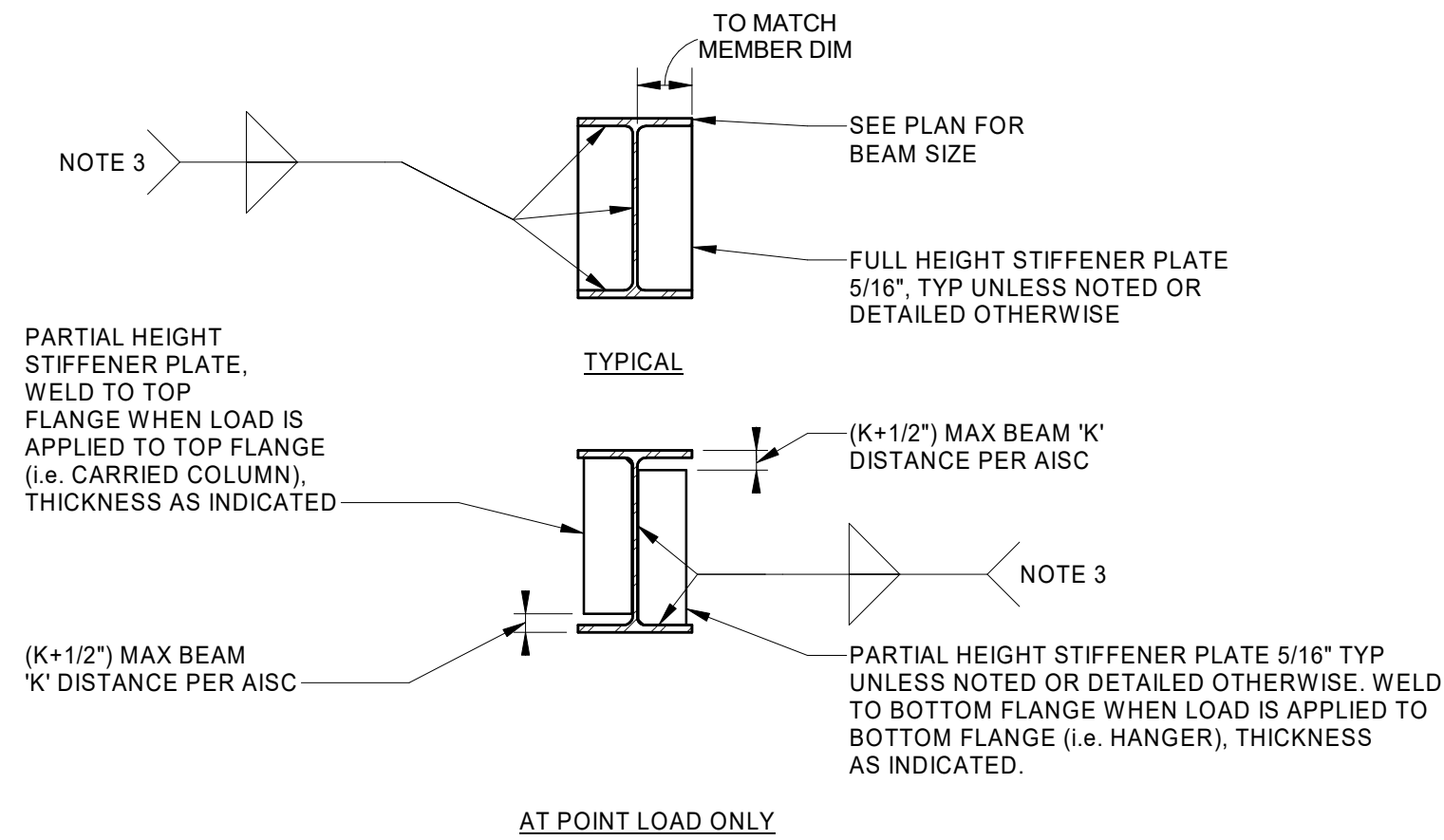
- NOTES:
- STANDARD CONNECTIONS ABOVE SHALL USE 3/4" DIA A325-PT-STD BOLTS.
  - USE WHERE CONNECTION IS NOT OTHERWISE INDICATED ON PLANS, NOTES, ELEVATIONS, SECTIONS, OR DETAILS.
  - "Z": 2" MIN FOR STD HOLES (1 1/4" MIN FOR BEAMS LESS THAN A W12)  
2 1/4" MIN FOR OVS AND SSLT HOLES (1 3/8" MIN FOR BEAMS LESS THAN A W12)

A8 TYPICAL BM CONNECTION-SINGLE PLATE  
S602 SCALE: NOT TO SCALE

A6 DECK OPENING DETAIL  
S602 SCALE: NOT TO SCALE

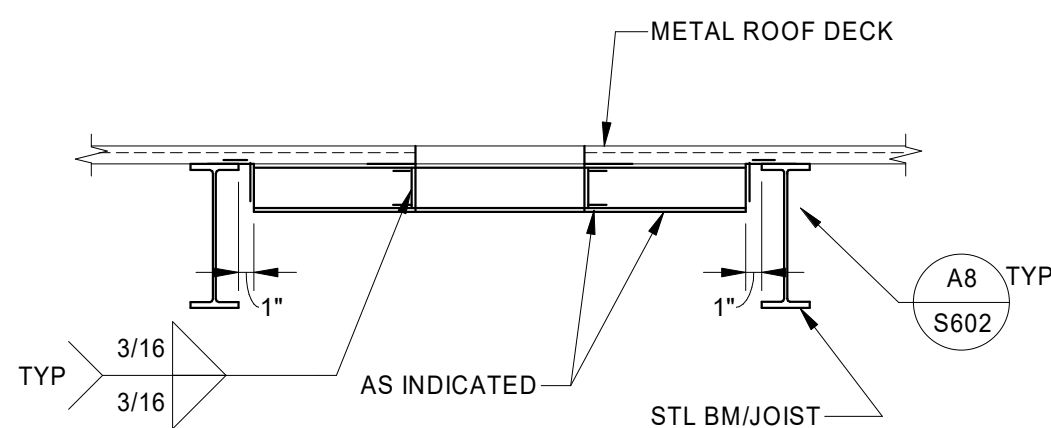


- NOTES:
- SEE ARCH, MECH, FIRE, AND ELEC DWGS FOR LOCATIONS AND SIZES OF OPENINGS. GENERAL SUBCONTRACTOR MUST COORDINATE.
  - SEE STRUCT PLANS FOR FRAMING AT OPENINGS GREATER THAN 5' - 0" IN ANY DIRECTION.

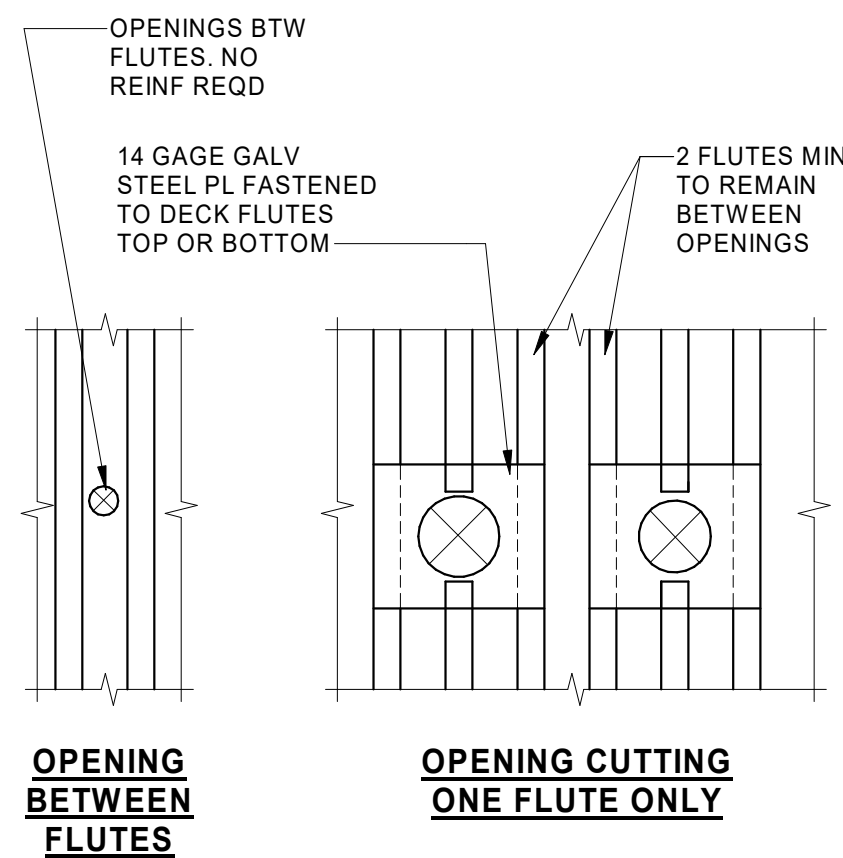


- NOTE:
- USE THIS DETAIL AT ALL LOCATIONS WHERE "STIFFENER PL" IS CALLOUT OUT, UNO.
  - USE FULL HEIGHT STIFFENER PLATE, TYP UNO.
  - TYP BOTH SIDES. WELD SIZE SHALL BE MINIMUM FILLET WELD PER AISC TABLE J2.4 UNO.

F4 TYPICAL STIFFENER PL  
S602 SCALE: NOT TO SCALE



D4 STANDARD OPENING DETAIL  
S602 SCALE: NOT TO SCALE



A4 DECK OPENING DETAIL  
S602 SCALE: NOT TO SCALE

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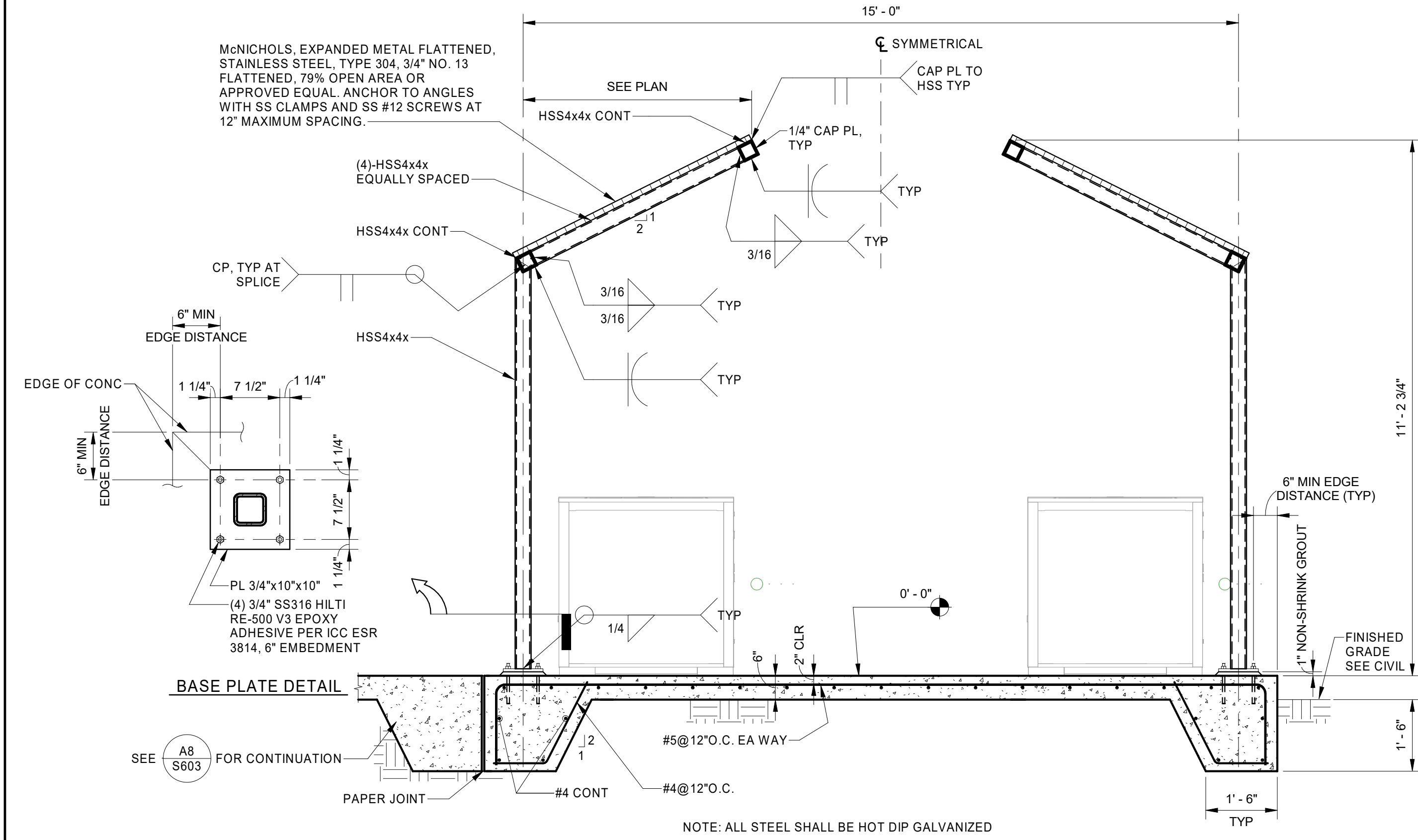
<b>PARSONS</b> PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA					
REV	APPROVED DATE	DESCRIPTION		JCN	REDLINE DATE
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION CENTRAL SERVICE AREA ARSR LONG RANGE RADAR SUSTAINMENT PROJECT STANDARD STEEL DETAILS					
RUSSELLVILLE AR					
DESIGNED	EC	ISSUED BY	ENGINEERING SERVICES	DATE	JCN 22002872
DRAWN	JB	CHECKED	RJ	DRAWING NO	QXR - 22002872 - S602

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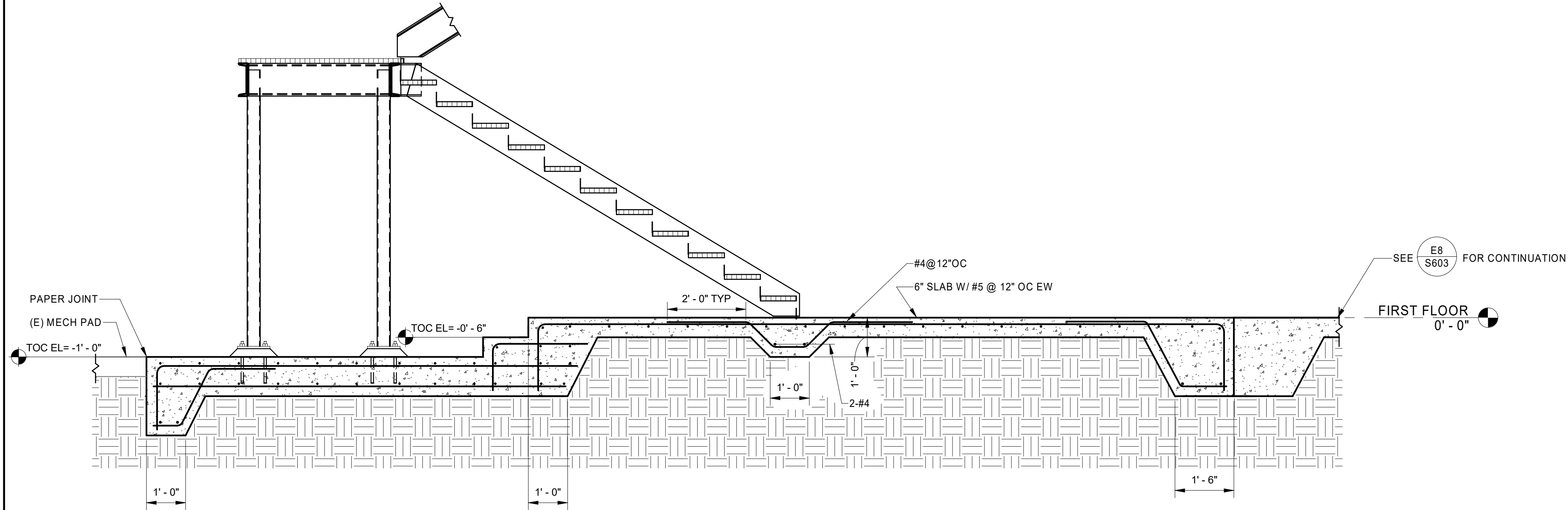
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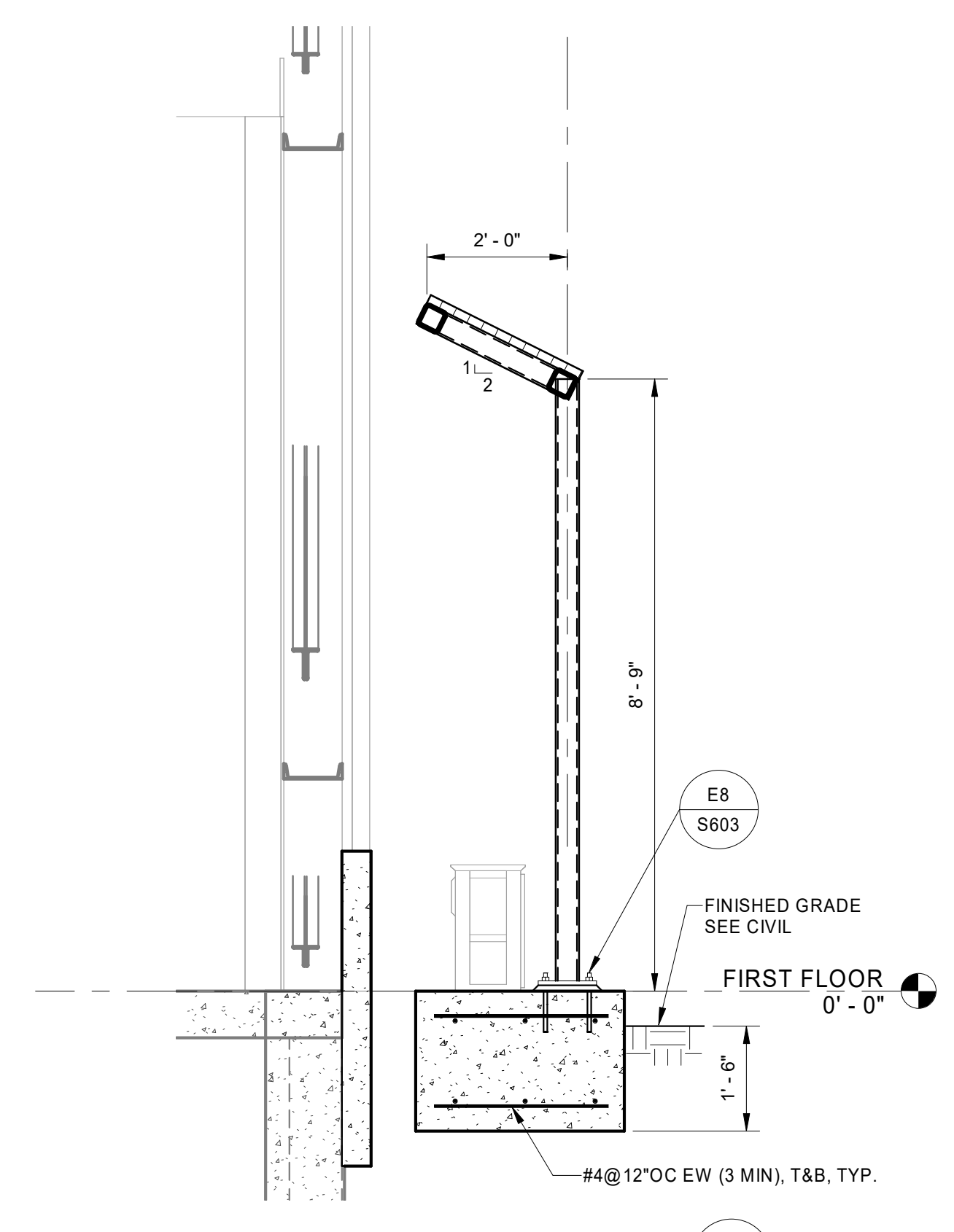
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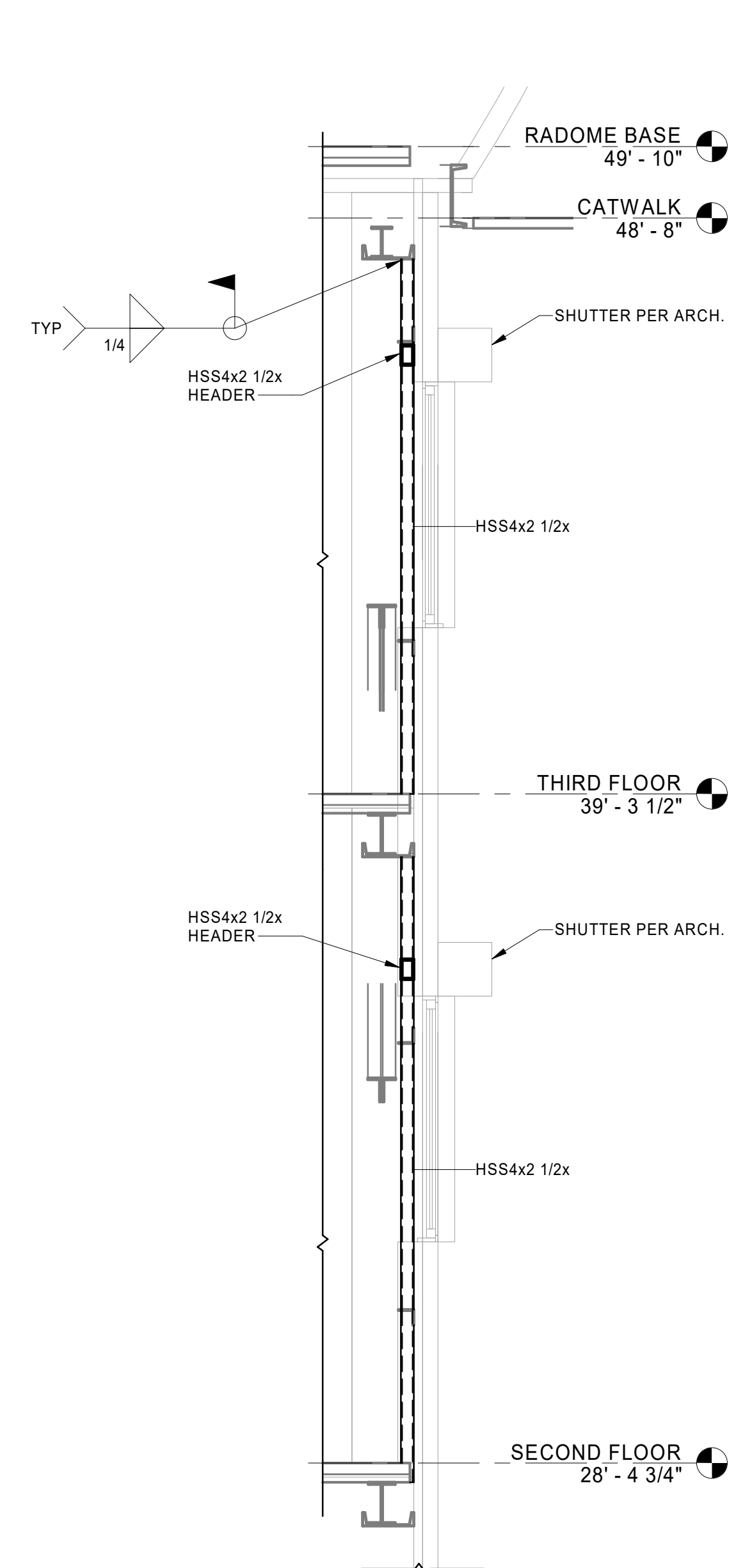
**E8 HVAC EQUIPMENT COVER DETAIL**  
S603 SCALE: 1/2" = 1'-0"



**A8 CONCRETE SLAB SECTION**  
S603 SCALE: 1/2" = 1'-0"




**E4 DETAIL**  
S603 SCALE: 1/2" = 1'-0"



**C2 SECTION**  
S603 SCALE: 1/2" = 1'-0"

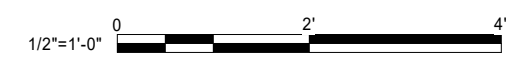
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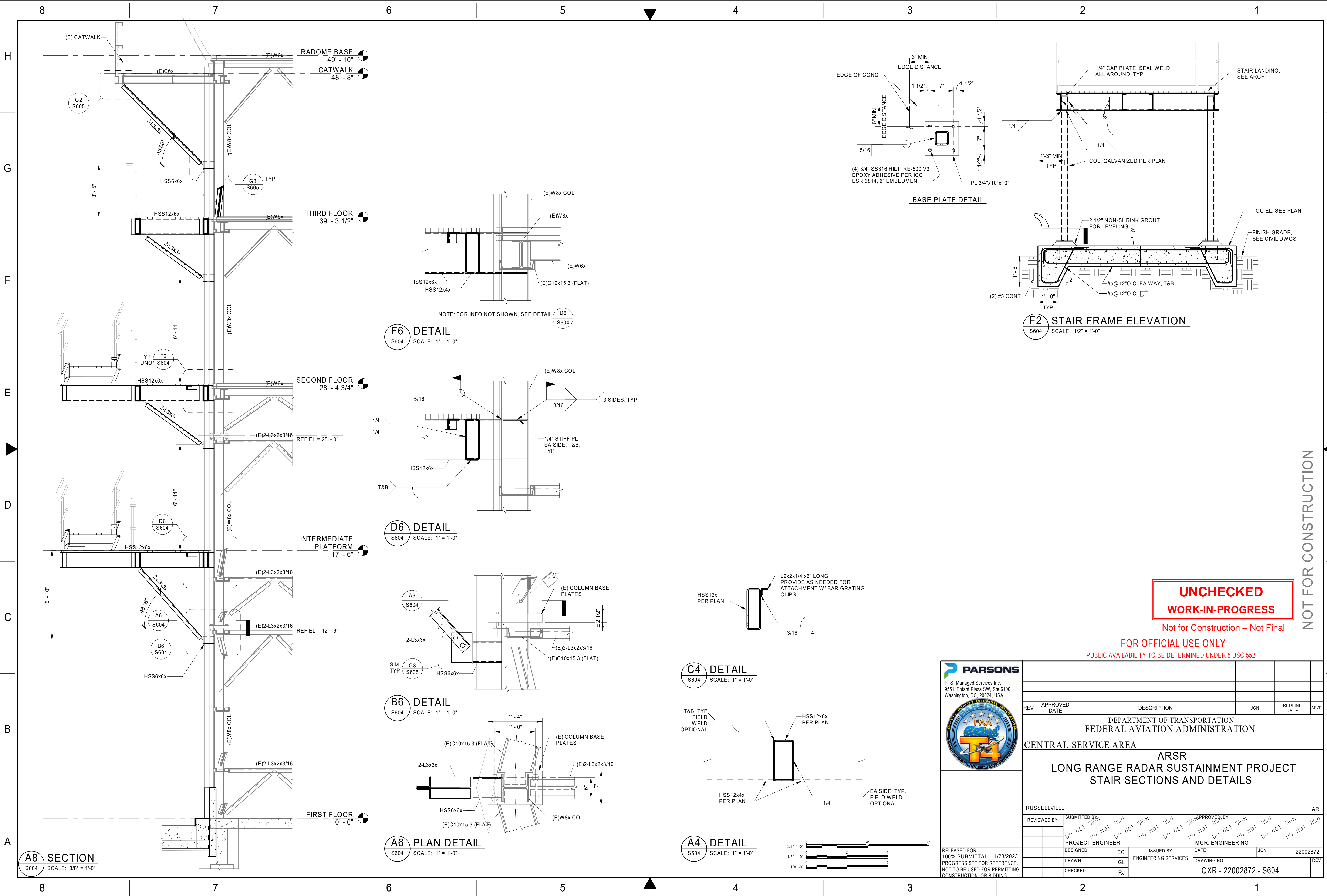
 PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA										
		REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION CENTRAL SERVICE AREA										
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT SECTIONS AND DETAILS										
RUSSELLVILLE										
REVIEWED BY		SUBMITTED BY				APPROVED BY				
		DO NOT SIGN				DO NOT SIGN				
		DO NOT SIGN				DO NOT SIGN				
		PROJECT ENGINEER				MGR: ENGINEERING				
RELEASED FOR:		DESIGNED		VH		ISSUED BY		DATE		JCN
100% SUBMITTAL 1/23/2023		DRAWN		GL		ENGINEERING SERVICES		22002872		
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		CENTRAL SERVICE AREA		ARSR		LONG RANGE RADAR SUSTAINMENT PROJECT		STAIR SECTIONS AND DETAILS		RUSSELLVILLE		AR			
DESIGNED		EC		ISSUED BY		ENGINEERING SERVICES		MGR: ENGINEERING		DATE		JCN		22002872	
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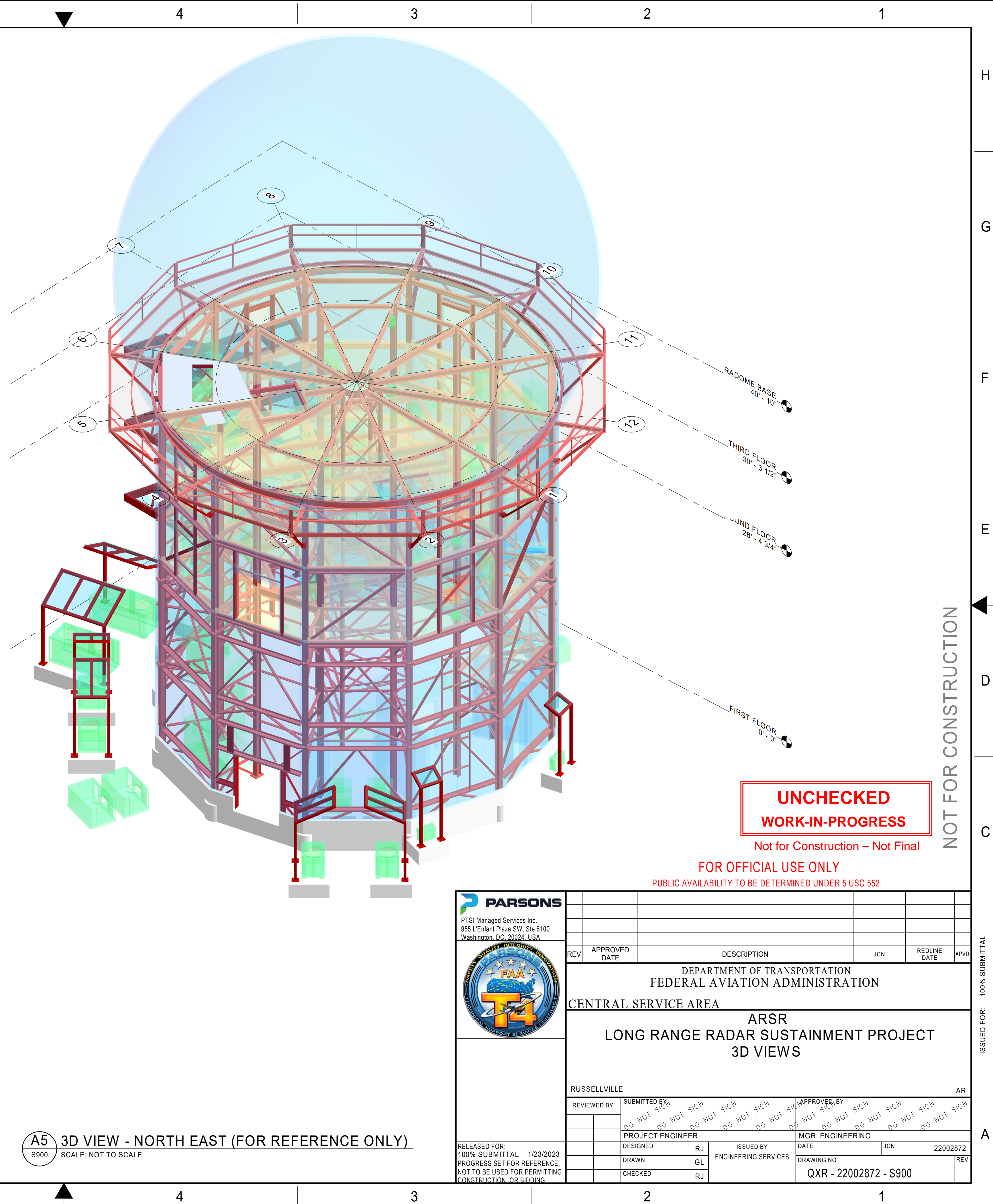
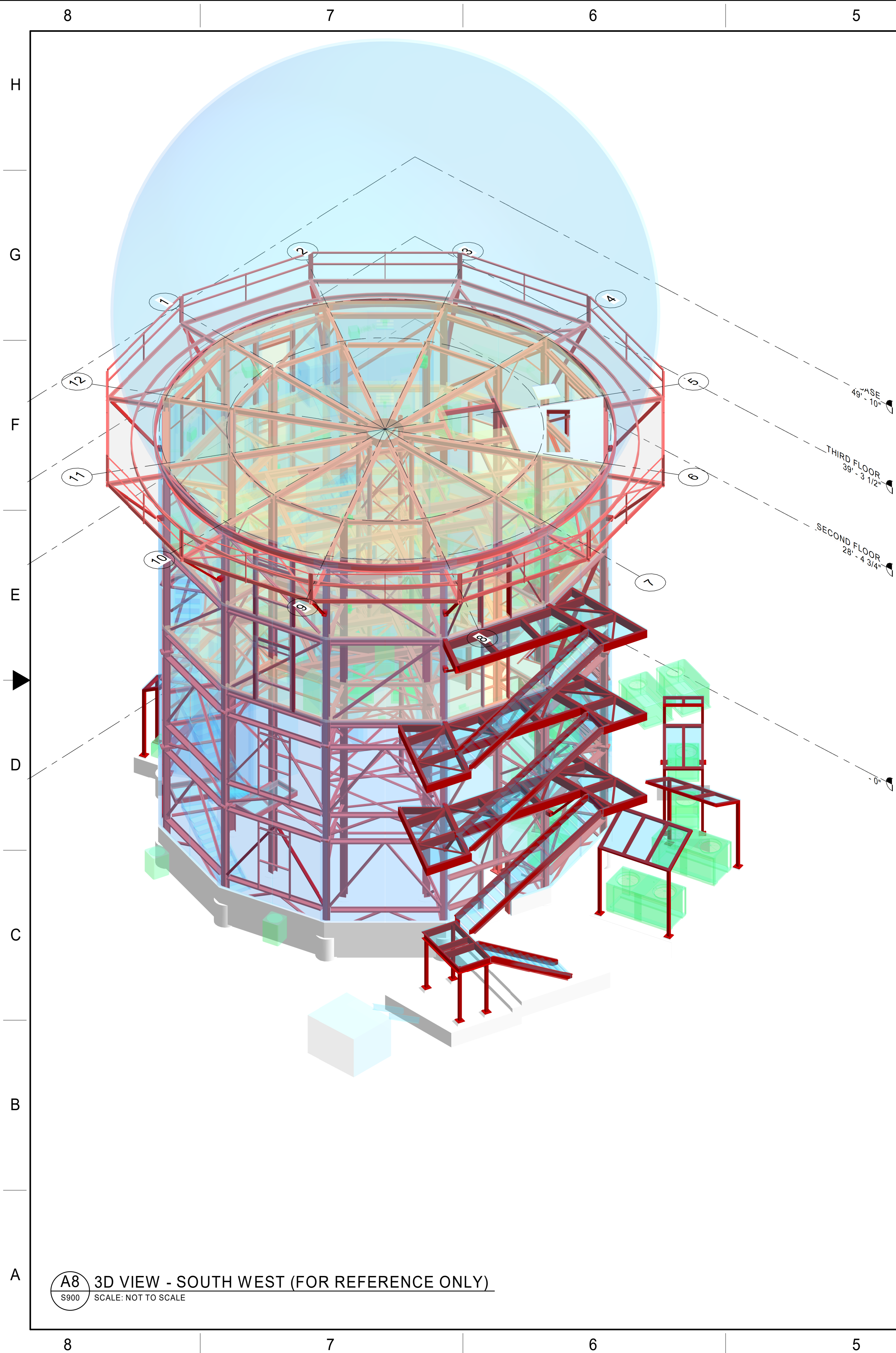








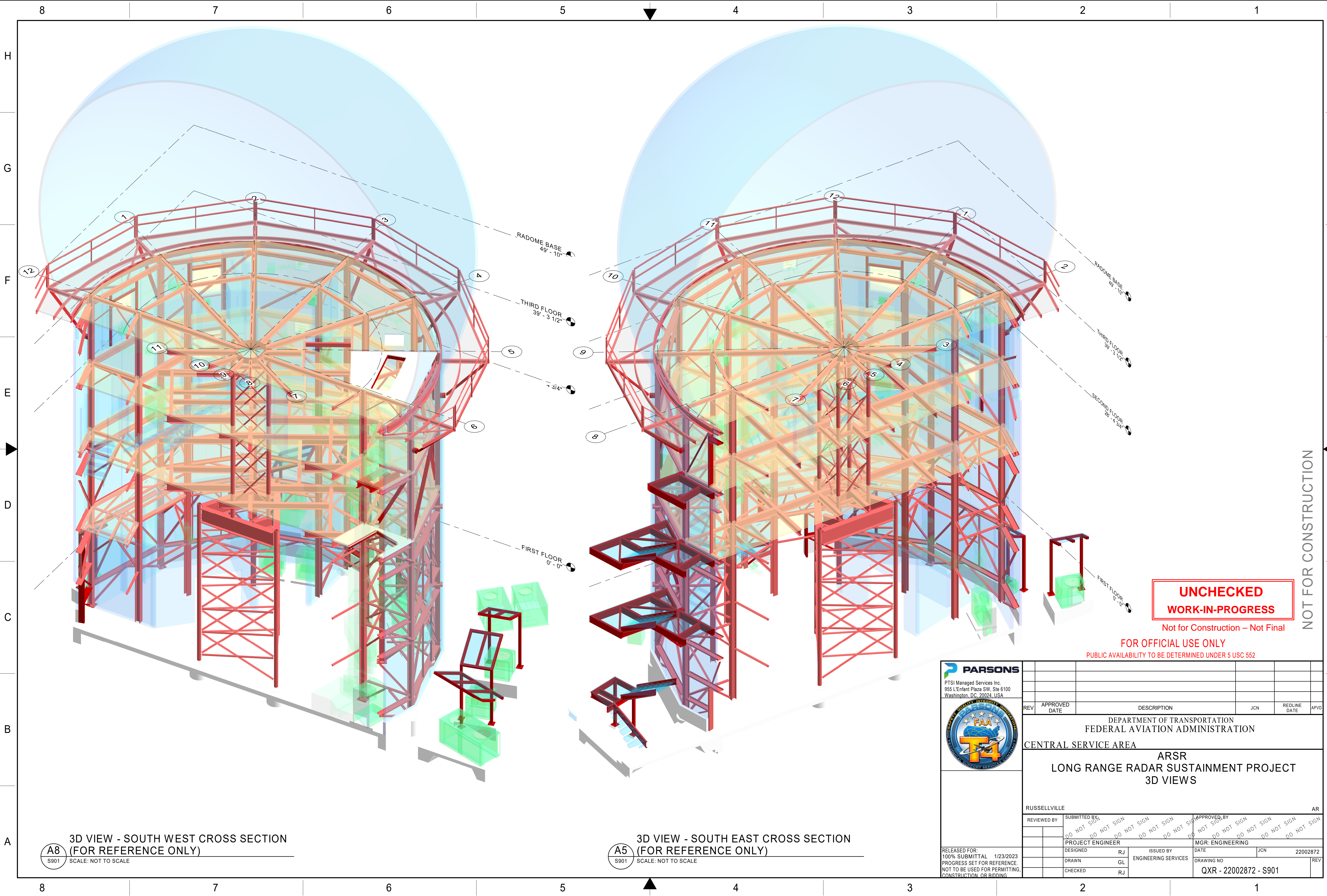






 <b>PARSONS</b>									
PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA									
	REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD
	DEPARTMENT OF TRANSPORTATION								
	FEDERAL AVIATION ADMINISTRATION								
	CENTRAL SERVICE AREA								
	ARSR LONG RANGE RADAR SUSTAINMENT PROJECT 3D VIEWS								
		RUSSELLVILLE							AR
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		PROJECT ENGINEER				MGR: ENGINEERING			
		DESIGNED RJ		ISSUED BY		DATE		JCN	22002872
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3D VIEW - SOUTH WEST CROSS SECTION  
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S901  
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3D VIEW - SOUTH EAST CROSS SECTION  
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A5  
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION CENTRAL SERVICE AREA ARSR LONG RANGE RADAR SUSTAINMENT PROJECT 3D VIEWS						
RUSSELLVILLE						AR
REVIEWED BY		SUBMITTED BY		APPROVED BY		
		PROJECT ENGINEER		MGR: ENGINEERING		
DESIGNED		RJ	ISSUED BY	DATE	JCN	22002872
DRAWN		GL	ENGINEERING SERVICES	DRAWING NO		
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		REV				

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## ABBREVIATIONS

	AMPS	PD	PRESSURE DROP
ACU	AIR CONDITIONING UNIT	PH	PHASE
ABV	ABOVE	PHC	PREHEAT COIL
AFF	ABOVE FINISHED FLOOR	PI	PRESSURE INDICATOR
AHU	AIR HANDLING UNIT	POC	POINT OF CONNECTION
AMB	AMBIENT	POD	POINT OF DISCONNECTION
AP	ACCESS PANEL	PRV	PRESSURE REDUCING VALVE
AHRI	AIR CONDITIONING HEATING & REFRIGERATION INSTITUTE	QTY	QUANTITY
BTU	BRITISH THERMAL UNIT	R	RELOCATED
BTU/H	BRITISH THERMAL UNIT PER HOUR	RA	RETURN AIR
CAV	CONSTANT AIR VOLUME	RAD	RETURN AIR DUCT
CD	CEILING DIFFUSER	RE	REFER TO
CFM	CUBIC FEET PER MINUTE	REG	REGISTER
CU	CONDENSING UNIT	RG	RETURN GRILLE
DB	DRY BULB	RH	RELATIVE HUMIDITY
DL	DOOR LOUVER	RL	REFRIGERANT LIQUID LINE
DN	DOWN	RLA	RATED LOAD AMPS
E	EXISTING	RPM	REVOLUTIONS PER MINUTE
EA	EXHAUST AIR	RS	REFRIGERANT SUCTION LINE
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EER	ENERGY EFFICIENCY RATIO	SAD	SUPPLY AIR DUCT
EF	EXHAUST FAN	SCU	SPLIT CONDENSING UNIT
EG	EXHAUST GRILLE	SFC	SPLIT FAN COIL UNIT
ELEV	ELEVATION	SD	DUCT SMOKE DETECTOR
ESP	EXTERNAL STATIC PRESSURE	SEER	SEASONAL ENERGY EFFICIENCY RATIO
FAA	FEDERAL AVIATION ADMINISTRATION	SF	SUPPLY FAN
FLA	FULL LOAD AMPS	SHC	SENSIBLE HEAT CAPACITY
FPM	FEET PER MINUTE	SOV	SHUT-OFF VALVE
FT	FEET	SP	STATIC PRESSURE
GA	GAUGE	SPT	STATIC PRESSURE
HP	HORSEPOWER		SENSOR/TRANSMITTER
HTR	HEATER	SRV	SAFETY RELIEF VALVE
HZ	HERTZ	SWR	SIDEWALL REGISTER
IN	INCHES	T	THERMOSTAT
IWC	INCH WATER COLUMN	TA	TRANSFER AIR
KWH	KILOWATT HOUR	TAD	TRANSFER AIR DUCT
KW	KILOWATT	TCC	TEMPERATURE CONTROL
LAT	LEAVING AIR TEMPERATURE		SUBCONTRACTOR
LxWxH	LENGTH x WIDTH x HEIGHT	TC	TOTAL CAPACITY
MAX	MAXIMUM	TEFC	TOTALLY ENCLOSED FAN-COOLED
MBH	THOUSAND BRITISH THERMAL UNIT PER HOUR	TEMP	TEMPERATURE
MCA	MINIMUM CIRCUIT AMPACITY	TF	TRANSFER FAN
MD	MOTORIZED DAMPER	TG	TRANSFER GRILLE
MFR	MANUFACTURER	TSP	TOTAL STATIC PRESSURE
MIN	MINIMUM	TR	TRANSFER
MOCP	MAXIMUM OVERCURRENT PROTECTION	Typ	TYPICAL
		UC	UNDERCUT
MVD	MANUAL VOLUME DAMPER	UTR	UP THRU ROOF
NDP	NATIONAL DEFENSE PROGRAM	VAV	VARIABLE AIR VOLUME
NIC	NOT IN CONTRACT	VD	VOLUME DAMPER
NC	NORMALLY CLOSED	VEL	VELOCITY
NO	NORMALLY OPEN	VFD	VARIABLE FREQUENCY DRIVE
NTS	NOT TO SCALE	WB	WET BULB
OA/OSA	OUTSIDE AIR	WG	WATER GAGE
OB	OIL BURNER (RADIANT HEATING)	WH	WATER HEATER
OBD	OPPOSED BLADE DAMPER	WSA	WIRE SIZE AMPS
OPD	OVERCURRENT PROTECTION DEVICE		
OPNG	OPENING		
PCF	POUNDS PER CUBIC FOOT		

## GENERAL NOTES

1. ALL WORK SHALL COMPLY AND BE INSTALLED IN ACCORDANCE WITH LEGALLY CONSTITUTED CODES AND AUTHORITIES HAVING JURISDICTION.
  2. BEFORE PROCEEDING WITH ANY WORK, SUBCONTRACTOR SHALL BE FULLY ACQUAINTED WITH THE JOB CONDITIONS SUCH AS VERIFYING LOCATIONS, ELEVATIONS AND SIZES OF ALL DUCTWORK, EQUIPMENT REQUIRING CONNECTIONS, ETC. ALONG WITH THE NOTES, DRAWINGS AND SPECIFICATIONS TO ENSURE PROPER INSTALLATION.
  3. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DUCT INSTALLATION IN SUCH A MANNER AS TO CONFORM TO EXISTING STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, KEEP OPENINGS AND PASSAGEWAY CLEAR AND ACCESSIBLE WITHOUT ADDITIONAL COST TO THE OWNER.
  4. COORDINATE ALL DUCTWORK AND/OR PIPING WITH ALL OTHER WORK TO AVOID CONFLICTS. RUN ALL DUCTS TO AVOID ARCHITECTURAL OPENINGS, STRUCTURAL MEMBERS OR OTHER OBSTRUCTIONS. RUN DUCTS TIGHT TO BOTTOM OF STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED. PROVIDE DUCT OFFSETS AND TRANSITIONS AS REQUIRED. INSTALL ALL DUCTWORK AND PIPING TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATION OF MECHANICAL WORK.
  5. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING TO COMPLETE THE INSTALLATION OF MECHANICAL WORK. ALL EXPOSED FINISHED AREAS THAT ARE DAMAGED AS A RESULT OF THIS WORK SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
  6. ALL CONSTRUCTION SITES SHALL BE PROPERLY PROTECTED WITH BARRICADES, WARNING FLAGS, FENCING AND LIGHTS AS REQUIRED BY CODE.
  7. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS UNLESS OTHERWISE INDICATED. INCREASE OUTSIDE DIMENSION OF DUCT TO ACCOMMODATE THE THICKNESS OF THE ACOUSTICAL LINING.
  8. PROVIDE AND INSTALL ALL NECESSARY DAMPERS TO BALANCE THE AIR DISTRIBUTION SYSTEM TO WITHIN +/- 10% OF THE AIR SHOWN ON CONSTRUCTION DOCUMENTS. ALL DUCT BRANCHES TO AIR OUTLETS SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS. DAMPER SHALL BE LOCATED AS FAR AS POSSIBLE FROM AIR OUTLET.
  9. PROVIDE AND INSTALL ALL THREADOLETS AND OTHER NECESSARY FITTINGS IN PIPING AND DUCTWORK REQUIRED FOR CONTROL AND MEASURING DEVICES.
  10. ALL POWER AND INTERLOCK WIRING SHALL BE INSTALLED UNDER DIVISION 26. LINE VOLTAGE CONTROL WIRING AND LOW VOLTAGE (24 VOLT) CONTROL WIRING SHALL BE INSTALLED UNDER DIVISION 23. ALL CONDUITS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 26.
  11. SUBCONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EQUIPMENT FOR ACCESSIBILITY PER MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES PRIOR TO PURCHASING AND INSTALLATION. ALL EQUIPMENT SHALL BE PROVIDED WITH REQUIRED SERVICE ACCESS CLEARANCES.
  12. AIR FLOWS SHOWN IN CFM ARE ACTUAL FLOWS AT THE SITE ELEVATION ABOVE SEA LEVEL.
  13. ALL EQUIPMENT SUPPORTS, FOUNDATIONS, PADS, WALL OPENINGS OR PENETRATIONS SHALL BE VERIFIED WITH ACTUAL PURCHASED EQUIPMENT FOR SIZE AND FIT. THE EQUIPMENT DIMENSIONS INDICATED ON THE DRAWINGS WERE SELECTED FOR ENGINEERING DESIGN AND SPACE ALLOCATION PURPOSES. THE ACTUAL DIMENSION MAY VARY DEPENDING ON THE PURCHASED EQUIPMENT TO BE INSTALLED.
  14. COORDINATE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
  15. CONDENSATE PIPING SHALL BE SLOPED AT A MINIMUM OF 1% IN THE DIRECTION OF FLOW.
  16. ALL NEW EQUIPMENT THAT REQUIRES CONCRETE PAD MODIFICATIONS SHALL MAINTAIN 6 IN. MINIMUM DISTANCE FROM THE EDGE OF THE EQUIPMENT TO THE EDGE OF THE CONCRETE PAD. THE CONCRETE PAD SHALL BE LARGER (6 IN. MIN. AROUND THE EQUIPMENT) THAN THE EQUIPMENT.
  17. DUCT SUPPORTS SHALL BE AS PER LATEST SMACNA STANDARDS AND GUIDELINES. BRACES AND RESTRAINTS TO MEET LOCAL SEISMIC REQUIREMENTS AND CODES.
  18. THE EQUIPMENT SHALL BE ANCHORED TO MEET THE LOCAL SEISMIC REQUIREMENTS AND CODES.
  19. PENETRATION TO FIRE-RATED MATERIALS AND WALLS SHALL BE REPAIRED WITH EQUAL RATING. PROVIDE FIRE RATED SEAL AT RELATED PENETRATIONS AS REQUIRED.
  20. THE DESIGN ON THE DRAWINGS IS BASED ON THE MANUFACTURER INDICATED ON THE DRAWINGS. IN THE EVENT THAT EQUIPMENT IS SUBSTITUTED WITH OTHER LISTED MANUFACTURER, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS REQUIRED TO INSTALL SUCH EQUIPMENT. THIS INCLUDES BUT NOT LIMITED TO INCREASE IN ELECTRICAL FEEDER SIZES, SWITCH AND FUSE OR BREAKER SIZES, SIZES OF ROOF OPENINGS (IF APPLICABLE), ETC.
  21. ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE ONLY. NO PIPING SHALL BE SUPPORTED FROM OTHER PIPING OR DUCTWORK.
  22. SUBCONTRACTOR SHALL INSTALL ALL REQUIRED HVAC COMPONENTS TO FIT ACTUAL JOB SITE CONDITIONS WITHOUT IMPAIRING THE CONCEPT OF THE DESIGN.
  23. SUBCONTRACTOR SHALL INCLUDE ANY DUCT AND/OR PIPES TURNS OR ANY ADDITIONAL APPURTENANCE NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM EVEN IF THEY ARE NOT SHOWN ON THE DRAWINGS.
  24. AT THE COMPLETION OF THE WORK, ALL PARTS OF THE INSTALLATION SHALL BE THOROUGHLY CLEANED. ALL FIXTURES, VALVES, PIPES AND FITTINGS SHALL BE CLEANED OF GREASE, METAL CUTTINGS, SLUDGE AND OTHER DEBRIS THAT MAY HAVE ACCUMULATED DURING INSTALLATION.
  25. MAIN DUCT CONNECTION TO UNIT SHALL BE PROVIDED WITH 3 IN TO 6 IN LONG FLEXIBLE CONNECTION.
  26. ALL OUTSIDE AIR INTAKE SHALL BE 10 FT AWAY FROM ANY EXHAUST, FLUE VENT AND PLUMBING VENT.
  27. ALL THERMOSTATS SHALL BE MOUNTED 4 FT ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. EXACT LOCATION SHALL BE COORDINATED WITH THE ARCHITECT.
  28. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5 FT MAXIMUM IN LENGTH FROM THE AIR TERMINAL.
  29. DUCT EQUIPMENT SHALL BE LABELED IN ACCORDANCE WITH THE PLANS.
  30. COORDINATE WITH OTHER TRADES TO ENSURE THAT 24"x24" ACCESS PANELS ARE PROVIDED FOR ALL CONCEALED COILS, VAV BOXES, FIRE/SMOKE DAMPERS, CONTROL VALVES AND MANUAL VOLUME DAMPERS. SUBCONTRACTOR SHALL MARK CEILING TO INDICATE THE LOCATION(S) OF VAV BOXES, FIRE/SMOKE DAMPERS AND MANUAL VOLUME DAMPERS.
  31. ALL EQUIPMENT SHALL BE LABELED IN ACCORDANCE WITH THE PLANS.
  32. REFRIGERANT PIPING INSULATION SHALL BE CLOSED-CELL AND 1" THICK FOR EXTERIOR LOCATIONS, 3/4" THICK FOR INTERIOR LOCATIONS, AND 1/2" THICK FOR MINI-SPLIT SYSTEMS.
  33. EXTERIOR REFRIGERANT PIPING INSULATION SHALL BE PROVIDED WITH PVC COVERING.
  34. REFRIGERANT PIPING SHALL BE PROVIDED WITH A FILTER-DRYER, SIGHT GLASS, & ISOLATION VALVES.

## MECHANICAL LEGEND

NOT ALL ITEMS LISTED BELOW ARE USED ON THIS SET OF MECHANICAL DRAWINGS

GENERAL	
SYMBOL	DESCRIPTION
	MECHANICAL/ELECTRICAL EQUIPMENT DESIGNATION
	KEYNOTE TAG
	REMOVE EXISTING
	UNDERCUT DOOR
	DISCONNECTION DEMO POINT
	CONNECT NEW TO EXISTING

DOUBLE LINE DUCTWORK	
SYMBOL	DESCRIPTION
	RECTANGULAR SUPPLY AIR DUCT UP
	RECTANGULAR SUPPLY AIR DUCT DOWN
	RECTANGULAR RETURN AIR / EXHAUST DUCT UP
	RECTANGULAR RETURN AIR / EXHAUST DUCT DOWN
	ROUND DUCT UP
	ROUND DUCT DOWN
	BRANCH DUCT 45° TAKE-OFF
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	RADIUS ELBOW RECTANGULAR/ROUND DUCT
	DUCT TRANSITION
	FLEX CONNECTION

SINGLE LINE DUCTWORK	
SYMBOL	DESCRIPTION
	RECTANGULAR DUCT ELBOW WITH TURNING VANES
	RADIUS ELBOW RECTANGULAR/ROUND DUCT
	DUCT TRANSITION

PIPING		
SYMBOL	ABBV.	DESCRIPTION
	HS	HOT WATER SUPPLY
	HR	HOT WATER RETURN
	CHS	CHILLED WATER SUPPLY
	CHR	CHILLED WATER RETURN
	D	EQUIPMENT DRAIN
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION

CONTROL DEVICES AND DAMPERS	
SYMBOL	DESCRIPTION
	HUMIDISTAT
	PRESSURE SENSOR
	SENSOR
	WALL MOUNTED THERMOSTAT
	UNIT MOUNTED THERMOSTAT
	FIRE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
	SMOKE DETECTOR
	MANUAL VOLUME DAMPER W/LOCKING QUADRANT
	MOTORIZED DAMPER



PIPING SYMBOLS	
SYMBOL	DESCRIPTION
	ARROW IN LINE INDICATES DIRECTION OF FLOW
	INDICATES PIPE SLOPE DOWN
	BOTTOM PIPE CONNECTION
	PIPING UP
	PIPING DOWN
	FIXTURE TRAP OR DRAIN TRAP
	PIPING CAP OR PLUG
	PUMP
	CALIBRATED BALANCING VALVE
	BALL VALVE
	PLUG VALVE
	GATE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	FLOW SWITCH
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	3-WAY TEMPERATURE CONTROL VALVE
	2-WAY TEMPERATURE CONTROL VALVE
	RELIEF VALVE
	STRAINER
	STRAINER WITH BLOW-OFF VALVE
	UNION
	PRESSURE GAUGE
	THERMOMETER
	PRESSURE AND TEMPERATURE TAP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	FLEXIBLE CONNECTOR
	HOSE END DRAIN VALVE
	MANUAL AIR VENT

## APPLICABLE CODES AND STANDARDS

IEBC 2018 INTERNATIONAL EXISTING BUILDING CODE  
IBC 2018 INTERNATIONAL BUILDING CODE  
IMC 2018 INTERNATIONAL MECHANICAL CODE  
IPC 2018 INTERNATIONAL PLUMBING CODE  
NFPA 75 - 2020 STANDARD FOR THE FIRE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT  
NFPA 90A - 2018 STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEM  
ASHRAE 90.1 - 2019 ENERGY STANDARD FOR BUILDING, EXCEPT LOW-RISE RESIDENTIAL TYPICAL  
ASHRAE 62.1 - 2019 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY  
FASRAE 1600.69C-2016 FACILITY SECURITY MANAGEMENT PROGRAM  
FAA ORDER JO 6000.53D - 2016 REMOTE MAINTENANCE MONITORING AND CONTROL IMPLEMENTATION.

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	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONSCENTRAL SERVICE AREA								
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT LEGEND, SYMBOLS AND NOTES									
RUSSELLVILLEAR									
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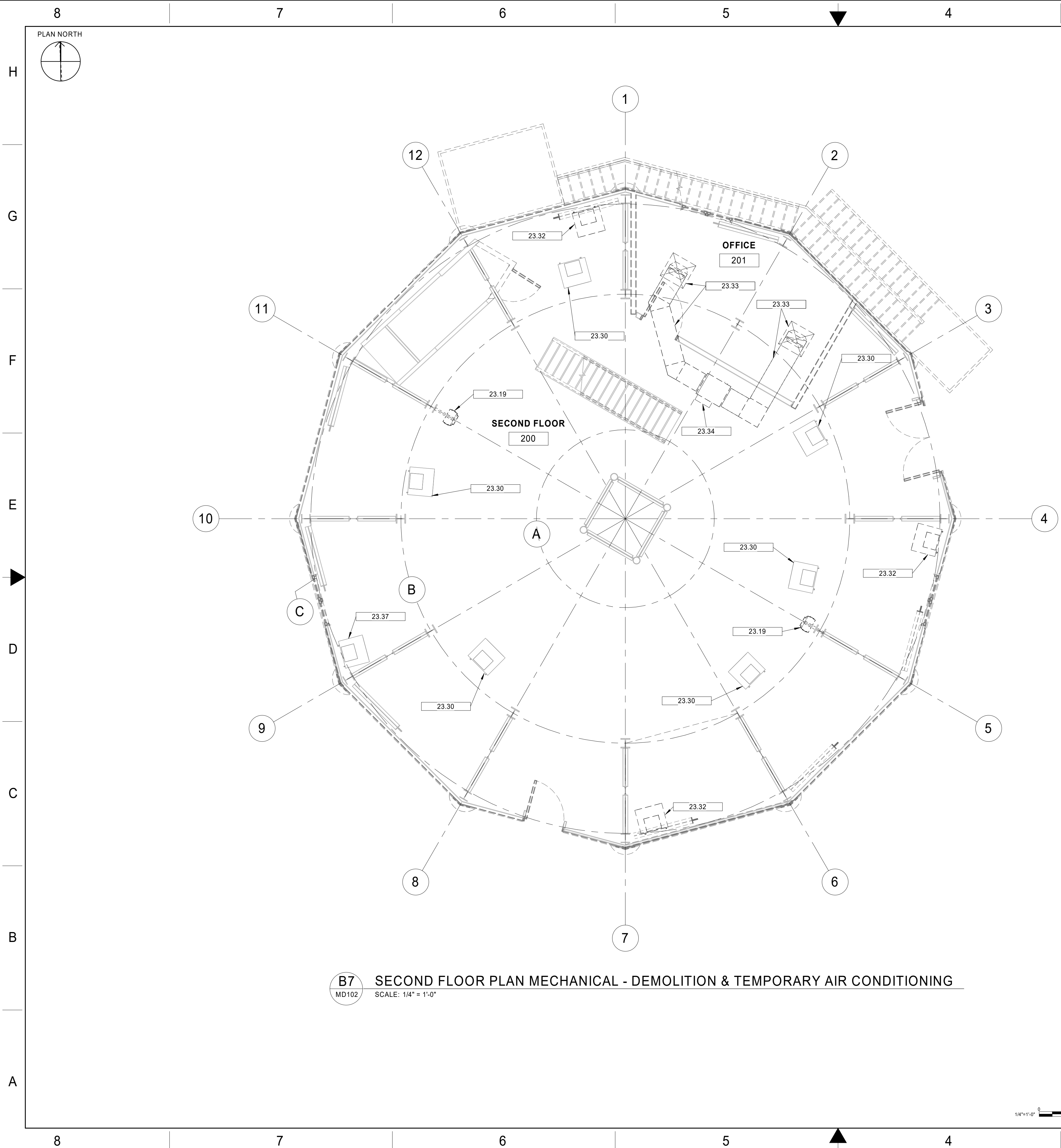
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## GENERAL NOTES

1. ALL DEMOLISHED EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL REMAIN PROPERTY OF THE FFA. SUBCONTRACTOR SHALL STORE ONSITE OR REMOVE FROM SITE SAID EQUIPMENT AS DIRECTED BY THE RESIDENT ENGINEER.
2. TEMPORARY AIR CONDITIONING NOTES
  - A. A MINIMUM OF SIX (6) TEMPORARY AIR CONDITIONING UNITS MUST BE PROVIDED.
  - B. REFER TO FLOOR PLAN DRAWINGS FOR OPERATING CHARACTERISTICS AND LOCATION OF TEMPORARY AIR CONDITIONING UNITS.
  - C. PROVIDE ALL NECESSARY TEMPORARY DUCTWORK AND ACCESSORIES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
  - D. TEMPORARY EQUIPMENT LOCATIONS AND DUCTWORK ROUTING MAY NEED TO BE CHANGED DURING CONSTRUCTION. THIS WORK MUST BE COMPLETED AT NO ADDITIONAL COST.
  - E. THE CONTRACTOR MUST PROVIDE AN INDEPENDENT TEMPERATURE MONITORING SYSTEM THAT CAN BE MONITORED WHILE NOT ON SITE TO INDICATE IF THE TEMPERATURE INSIDE THE FACILITY RISES.
  - F. ALL TEMPORARY AIR CONDITIONING UNITS MUST OPERATE FOR A MINIMUM OF 72 HOURS BEFORE BEING PLACED INTO SERVICE. IT IS ACCEPTABLE FOR THE UNIT TO OPERATE AS THE STANDBY UNIT DURING THE 72 HOUR PERIOD.
  - G. AT ALL TIMES THERE MUST BE AT LEAST ONE (1) AIR CONDITIONING UNIT OPERATING IN A STANDBY CONFIGURATION.

## KEYNOTES

23.19	EXISTING ELECTRIC UNIT HEATER AND ALL ASSOCIATED COMPONENTS AND ACCESSORIES TO BE REMOVED
23.30	PORTABLE 3 TON TEMPORARY AIR CONDITIONING UNIT (208V/3PH/17 AMP) WITH INTERNAL CONDENSATE TANK. CONDENSER INTAKE AND EXHAUST AIR SHALL BE SUPPLIED VIA FLEX DUCT UTILIZING EXISTING WINDOW OPENINGS PRIOR TO THEIR REPLACEMENT. AS AN ALTERNATE, FLEX DUCTWORK CAN PENETRATE THE EXISTING BUILDING SKIN PRIOR TO NEW SKIN INSTALLATION
23.32	EXISTING VERTICAL FLOOR MOUNTED AIR HANDLING UNIT AND ALL ASSOCIATED COMPONENTS AND ACCESSORIES TO BE REMOVED
23.33	EXISTING DUCTWORK, DIFFUSERS, RETURN GRILLE AND ALL ASSOCIATED COMPONENTS AND ACCESSORIES TO BE REMOVED
23.34	EXISTING HORIZONTAL SUSPENDED AIR HANDLING UNIT AND ALL ASSOCIATED COMPONENTS AND ACCESSORIES TO BE REMOVED
23.37	EXISTING AHU TO REMAIN. SHOULD FAA REQUEST RELOCATION OF AN (E)AHU, RELOCATION WILL BE AT NO ADDITIONAL COST TO THE GOVERNMENT. COORDINATE WITH RESIDENT ENGINEER AND LOCAL FAA TECHNICIAN FOR DEFINITIVE DIRECTION.

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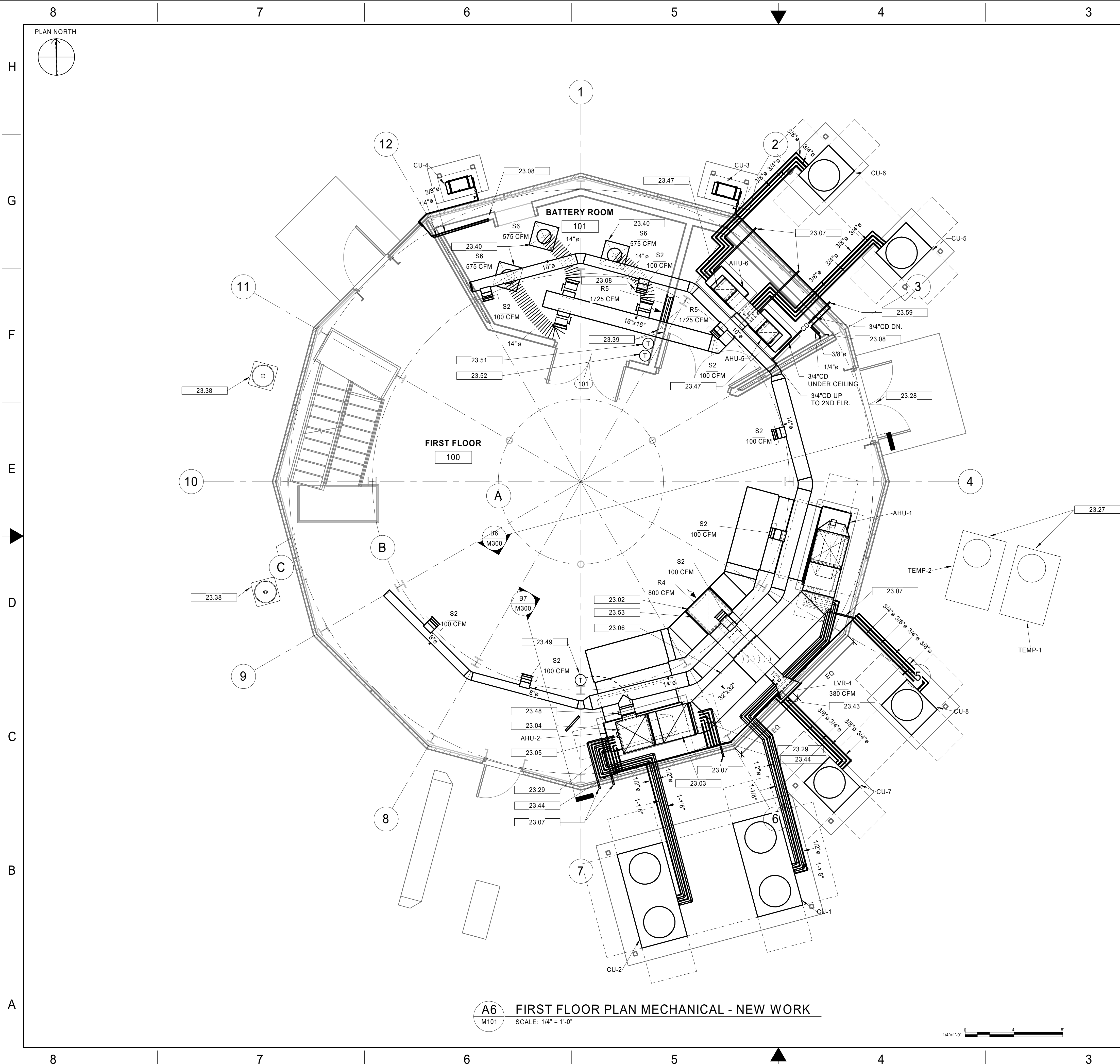
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ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR  LONG RANGE RADAR SUSTAINMENT PROJECT DEMOLITION - SECOND FLOOR PLAN									
RUSSELVILLE									AR
REVIEWED BY	SUBMITTED BY					APPROVED BY			
	PROJECT ENGINEER					MGR: ENGINEERING			
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						QXR - 22002872 - MD102			









## GENERAL NOTES

1. DUCTWORK SHALL BE LINED WITH 1" INSULATION (R-5 WITH 2 LBS. DENSITY).
2. DUCTWORK SIZES SHOWN INDICATE FREE AREA INSIDE DIMENSIONS.
3. DUCTWORK SHALL BE PROVIDED WITH ROLL-FORMED FLANGE CONNECTIONS.
4. ALL CONDENSING UNITS SHALL BE PAD MOUNTED.
5. ALL INDICATED REFRIGERANT PIPE SIZES ARE TO BE FIELD VERIFIED AND ADJUSTED PER MANUFACTURER'S REQUIREMENTS.
6. TEMPORARY AIR CONDITIONING NOTES
  - A. TEMPORARY AIR CONDITIONING UNITS SHALL NOT BE REMOVED FROM SERVICE UNTIL EACH AIR CONDITIONING UNIT HAS SATISFIED A 72 HOUR RUN-IN PERIOD.
  - B. TEMPORARY EQUIPMENT LOCATION AND DUCTWORK ROUTING MAY NEED TO BE CHANGED DURING CONSTRUCTION. THIS WORK MUST BE COMPLETED AT NO ADDITIONAL COST.
  - C. CONTROL OF THE TEMPORARY AIR CONDITIONING UNITS MUST BE BY INDEPENDENT THERMOSTATS. THE THERMOSTATS MAY BE LOCATED INSIDE THE FACILITY OR IN THE TEMPORARY UNIT'S RETURN AIR SECTION
  - D. THE PRIMARY UNIT'S SUPPLY FAN MUST CONTINUOUSLY OPERATE.
  - E. THERE ARE NO EXCEPTIONS TAKEN TO THE USE OF DUCTBOARD AND FLEX DUCT FOR TEMPORARY DUCTWORK.
  - F. THE CONTRACTOR MUST PROVIDE AN INDEPENDENT TEMPERATURE MONITORING SYSTEM THAT CAN BE MONITORED WHILE NOT ON SITE TO INDICATE IF THE TEMPERATURE INSIDE THE FACILITY RISES.
  - G. AT ALL TIMES THERE MUST BE AT LEAST TWO (2) AIR CONDITIONING UNITS OPERATING IN A PRIMARY/STANDBY CONFIGURATION.

## KEYNOTES

23.02	32"x32" RETURN AIR DUCT DROP
23.03	32"x32" RETURN AIR DUCT DROP FROM FLOOR ABOVE
23.04	32"x32" SUPPLY AIR DUCT UP TO FLOOR ABOVE
23.05	32"x32" BACKDRAFT DAMPER AT AIR HANDLING UNIT DISCHARGE
23.06	32"x32" RETURN AIR & 32"x32" SUPPLY AIR DUCTWORK STACKED
23.07	1" CONDENSATE TO DAYLIGHT
23.08	REFRIGERANT PIPING DROP FROM FLOOR ABOVE
23.27	TEMPORARY AIR CONDITIONING UNIT AND DUCTWORK TO BE REMOVED
23.28	REPLACE DOOR, REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS
23.29	REFRIGERANT & CONDENSATE PIPING DROP FROM FLOOR ABOVE
23.38	EXISTING CONDENSING UNIT TO REMAIN. SHOULD FAA REQUEST RELOCATION OF AN EXISTING CONDENSING UNIT, RELOCATION WILL BE AT NO ADDITIONAL COST TO THE GOVERNMENT. COORDINATE WITH RESIDENT ENGINEER AND LOCAL FAA TECHNICIAN FOR DEFINITIVE DIRECTION.
23.39	32"x20" RETURN AIR GRILLE IN WALL, FIELD COORDINATE FINAL LOCATION
23.40	24"x24" CEILING DIFFUSER
23.43	TWO (2) 24"x24" OUTSIDE AIR LOUVERS STACKED, PROVIDE WITH STAINLESS STEEL WIRE MESH SCREEN
23.44	REFRIGERANT AND CONDENSATE PIPING DOWN
23.47	16"x16" BACKDRAFT DAMPER AT AIR HANDLING UNIT DISCHARGE
23.48	14" DIAMETER ACTUATED DAMPER CONTROLLED BY THERMOSTAT
23.49	SURFACE MOUNTED THERMOSTAT SET AT 85 DEGREES FAHRENHEIT
23.51	THERMOSTAT CONTROLLING AHU-5, MUST BE CAPABLE OF CONTROLLING TWO-STAGES OF COOLING
23.52	THERMOSTAT CONTROLLING AHU-6, MUST BE CAPABLE OF CONTROLLING TWO-STAGES OF COOLING
23.53	32"x32" MANUAL BALANCE DAMPER IN RETURN DUCT, LOCATE BETWEEN EXHAUST AIR AND OUTSIDE AIR INTAKE DUCTWORK CONNECTIONS
23.59	3/4" CONDENSATE TO DAYLIGHT

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THE AIR INTAKE DUCTWORK COMES  
LIGHT **UNCHECKED**

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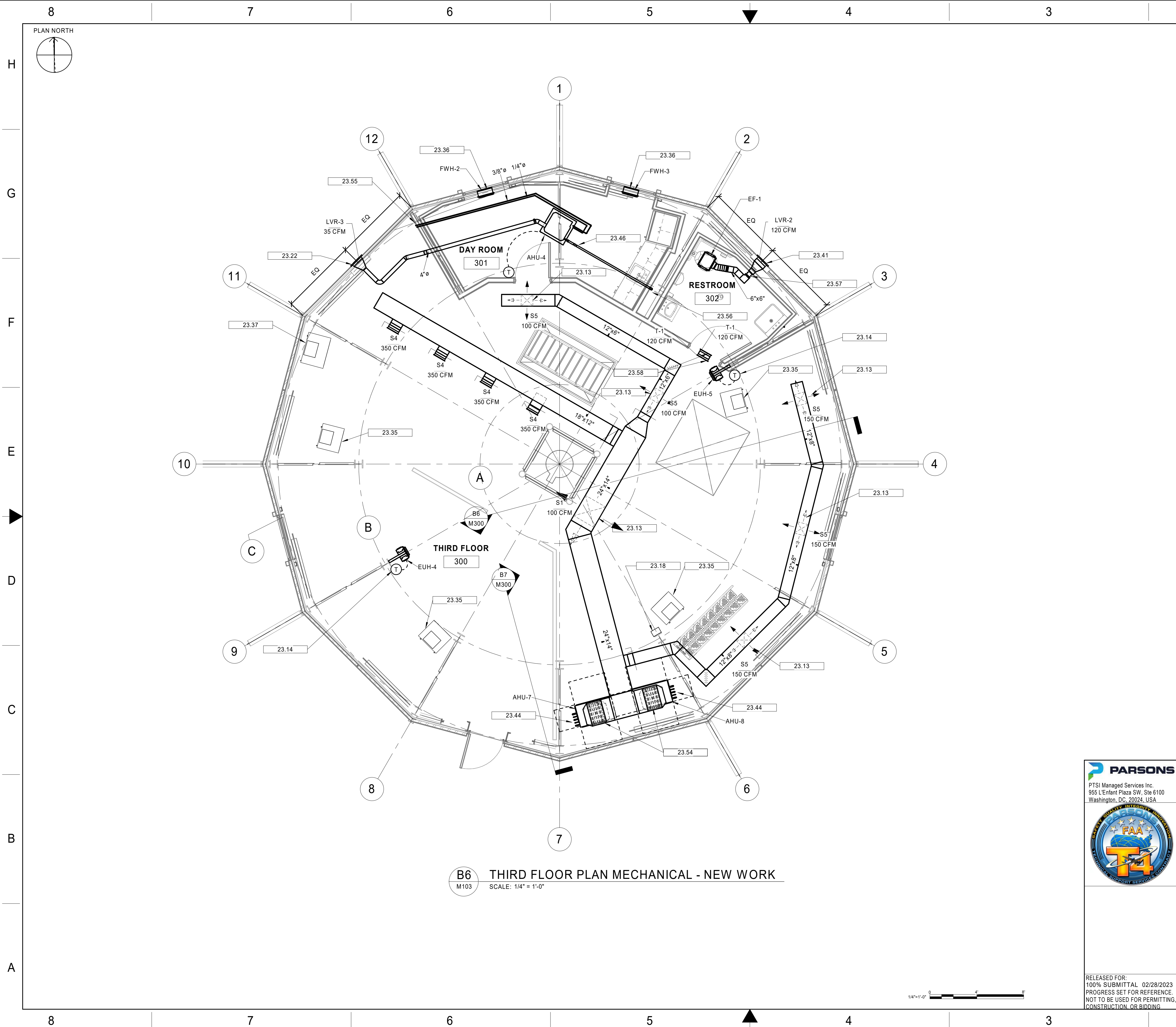
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PROGRESS SET FOR REFERENCE.  
NOT TO BE USED FOR PERMITTING  
CONSTRUCTION OR BIDDING

[illegible]









## GENERAL NOTES

- DUCTWORK SHALL BE LINED WITH 1" INSULATION (R-5 WITH 2 LBS. DENSITY).
- DUCTWORK SIZES SHOWN INDICATE FREE AREA INSIDE DIMENSIONS.
- DUCTWORK SHALL BE PROVIDED WITH ROLLED-FORMED FLANGE CONNECTIONS.
- ALL INDICATED REFRIGERANT PIPE SIZES ARE TO BE FIELD VERIFIED AND ADJUSTED PER MANUFACTURER'S REQUIREMENTS.
- TEMPORARY AIR CONDITIONING NOTES
  - TEMPORARY AIR CONDITIONING UNITS SHALL NOT BE REMOVED FROM SERVICE UNTIL EACH AIR CONDITIONING UNIT HAS SATISFIED A 72 HOUR RUN-IN PERIOD.
  - TEMPORARY EQUIPMENT LOCATIONS AND DUCTWORK ROUTING MAY NEED TO BE CHANGED DURING CONSTRUCTION. THIS WORK MUST BE COMPLETED AT NO ADDITIONAL COST. CONTROL OF THE TEMPORARY AIR CONDITIONING UNITS MUST BE BY INDEPENDENT THERMOSTATS. THE THERMOSTATS MAY BE LOCATED INSIDE THE FACILITY OR IN THE TEMPORARY UNIT'S RETURN AIR SECTION.
  - THE PRIMARY UNITS' SUPPLY FAN MUST CONTINUOUSLY OPERATE.
  - THE CONTRACTOR MUST PROVIDE AN INDEPENDENT TEMPERATURE MONITORING SYSTEM THAT CAN BE MONITORED WHILE NOT ON SITE TO INDICATE IF THE TEMPERATURE INSIDE THE FACILITY RISES.
  - AT ALL TIMES THERE MUST BE AT LEAST ONE (1) AIR CONDITIONING UNITS OPERATING IN A STANDBY CONFIGURATION.

## KEYNOTES

23.13	SURFACE MOUNTED DIFFUSER IN BOTTOM OF DUCT
23.14	ELECTRIC UNIT HEATER WITH DEDICATED THERMOSTAT MOUNTED TO COLUMN, MOUNT +/- 48" ABOVE FINISH FLOOR
23.18	NDP CONTROL PANEL, MOUNT +/- 48" ABOVE FINISHED FLOOR
23.22	12"x12" OUTSIDE AIR INTAKE LOUVER WITH STAINLESS STEEL WIRE MESH SCREEN
23.35	TEMPORARY PORTABLE AIR CONDITIONING UNIT AND FLEX DUCT TO BE REMOVED. SEAL ALL OPENINGS IN BUILDING TO MATCH NEW WORK INDICATED ON ARCHITECTURAL DRAWINGS.
23.36	FAN-FORCED WALL HEATER WITH INTEGRAL THERMOSTAT.
23.37	EXISTING AHU TO REMAIN. SHOULD FAA REQUEST RELOCATION OF AN (E)AHU, RELOCATION WILL BE AT NO ADDITIONAL COST TO THE GOVERNMENT. COORDINATE WITH RESIDENT ENGINEER AND LOCAL FAA TECHNICIAN FOR DEFINITIVE DIRECTION.
23.41	12"x12" EXHAUST AIR LOUVER WITH STAINLESS STEEL WIRE MESH SCREEN
23.44	REFRIGERANT AND CONDENSATE PIPING DOWN
23.46	INLINE CHECK VALVE IN CODENSATE PIPING
23.54	24"x14" BACKDRAFT DAMPER AT AIR HANDLING UNIT DISCHARGE
23.55	REFRIGERANT PIPING DOWN TO FLOOR BELOW
23.56	CONNECT CONDENSATE TO TAILPIECE OF KITCHEN SINK (S-1)
23.57	6"x6" BACKDRAFT DAMPER
23.58	12"x6" TRANSFER GRILLE ABOVE DOOR

**UNCHECKED  
WORK-IN-PROGRESS**

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PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

**PARSONS**  
PTSI Managed Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA



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REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION									
ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT THIRD FLOOR PLAN									
RUSSELVILLE						AR			
REVIEWED BY		SUBMITTED BY				APPROVED BY			
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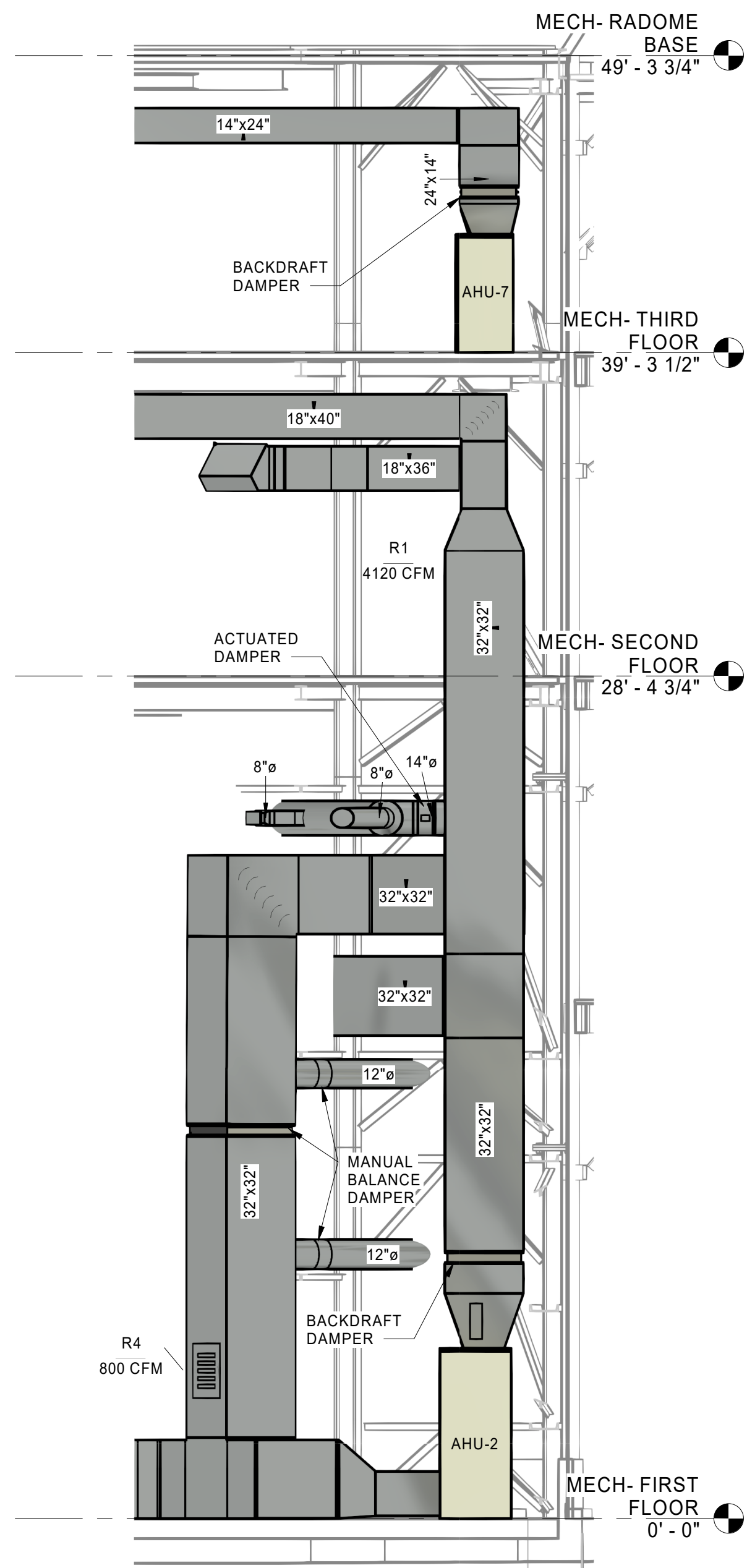
NOT FOR CONSTRUCTION

ISSUED FOR: 100% SUBMITTAL



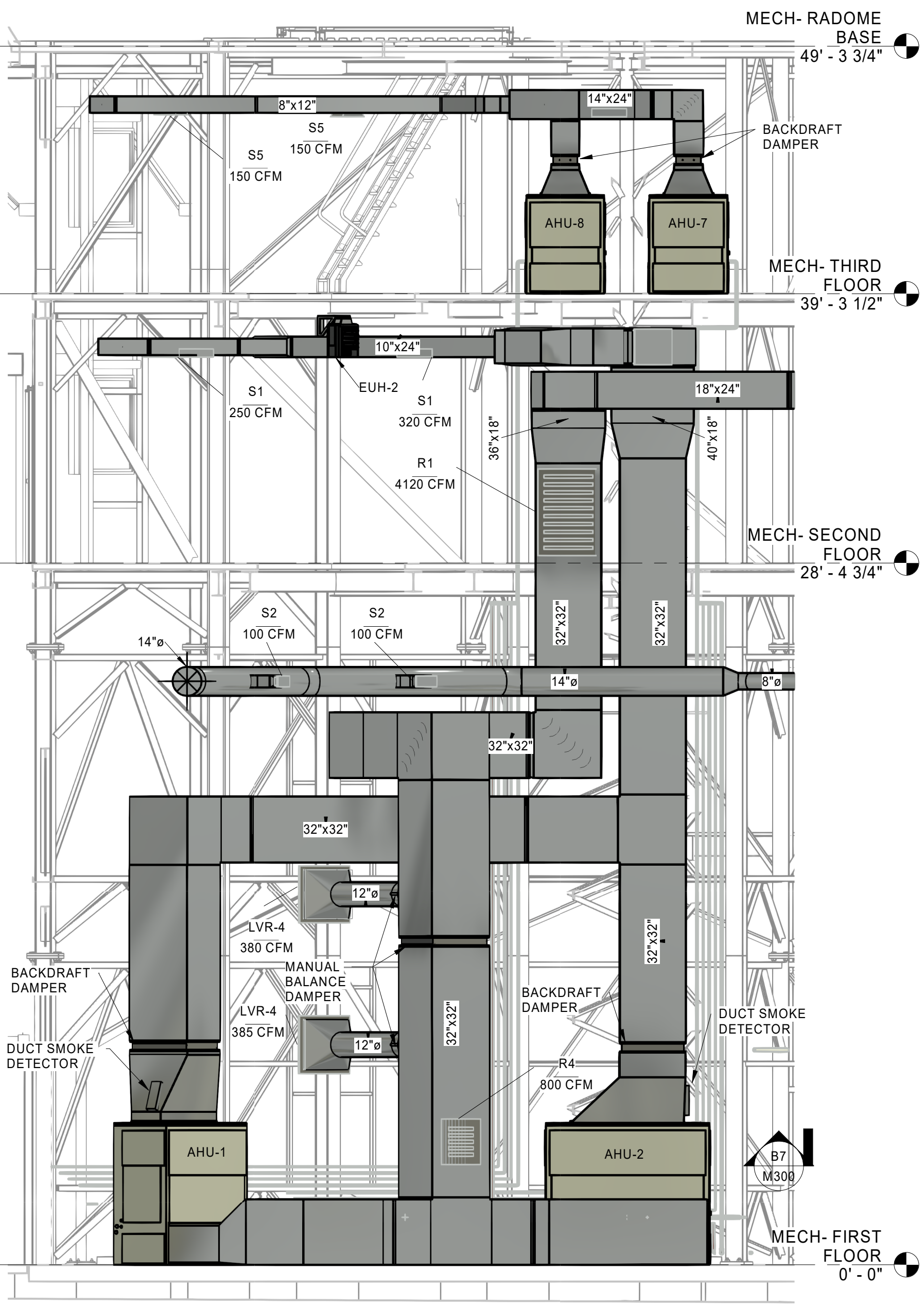
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**B7** SECTION 1  
M300 SCALE: 1/4" = 1'-0"

NOTE: SEE DUCT 3D VIEW ON M900.



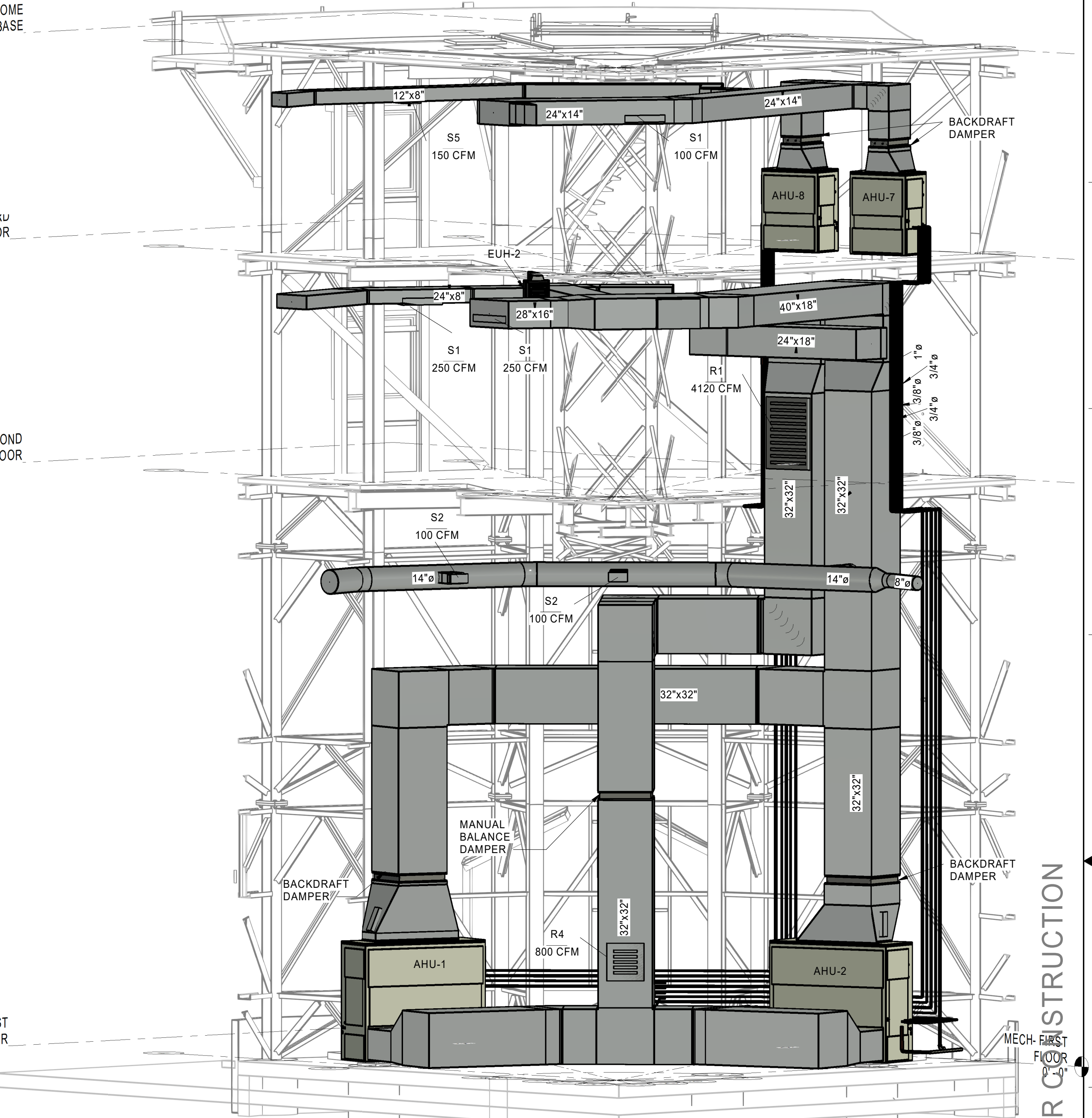
**B6** SECTION 2  
M300 SCALE: 1/4" = 1'-0"

MECH-RADOME BASE  
49' - 3 3/4"

MECH-THIRD FLOOR  
39' - 3 1/2"

MECH-SECOND FLOOR  
28' - 4 3/4"

MECH-FIRST FLOOR  
0' - 0"



**C3** 3D VIEW - MECHANICAL  
M300 SCALE: 1/4" = 1'-0"

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## SPLIT SYSTEM AIR HANDLING UNIT SCHEDULE

MARK	LOCATION	BASIS OF DESIGN		SUPPLY FAN				OUTSIDE AIRFLOW (CFM)	COOLING						ELECTRIC HEAT (kW)	UNIT ELECTRIC					WEIGHT (LBS)	NOTES
		MANUFACTURER	MODEL	SUPPLY AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN WC)	FAN MOTOR QTY	FAN MOTOR HP		TOTAL COOLING (BTUH)	SENSIBLE COOLING (BTUH)	ENTERING AIR		LEAVING AIR			VOLTAGE	PHASE	HERTZ	MCA (A)	MOCp (A)		
											DB (°F)	WB (°F)	DB (°F)	WB (°F)								
AHU-1	1ST FLR	TRANE	TWE18043B	7120	1.10	1	5	380	177300	162800	72.0	58.0	48.6	47.4	0	208	3	60	13.0	20	718	1,2,3,4,5,6,7,8,9,13,14
AHU-2	1ST FLR	TRANE	TWE18043B	7120	1.10	1	5	380	177300	162800	48.6	47.4	72.0	58.0	0	208	3	60	13.0	20	718	1,2,3,4,5,6,7,8,9,13,14
AHU-3	2ND FLR OFFICE	MITSUBISHI	PLA-A12 (CASSETTE)	420	0.50	1	1/15	20	8000	6900	76.5	63.4	55.5	54.3	0	208	1	60	0.0	0	46	1,10,11,12,16
AHU-4	3RD FLR DAY ROOM	MITSUBISHI	PLA-A12 (CASSETTE)	420	0.50	1	1/15	35	6900	5100	77.4	65.3	56.1	55.0	0	208	1	60	0.0	0	46	1,10,11,12,16
AHU-5	BATTERY ROOM	TRANE	TWE06043B	1725	0.60	1	3/4	0	41000	40900	75.7	60.7	53.4	52.0	0	208	3	60	4.0	15	252	1,4,5,6,7,8,9,13,14,15
AHU-6	BATTERY ROOM	TRANE	TWE06043B	1725	0.60	1	3/4	0	41000	40900	75.7	60.7	53.4	52.0	0	208	3	60	4.0	15	252	1,4,5,6,7,8,9,13,14,15
AHU-7	3RD FLR EQUIPMENT ROOM	TRANE	TWE06043B	2150	0.60	1	3/4	0	48000	47500	73.8	59.3	51.7	50.4	0	208	3	60	8.0	15	252	1,2,4,5,6,7,8,9,13,14,15
AHU-8	3RD FLR EQUIPMENT ROOM	TRANE	TWE06043B	2150	0.60	1	3/4	0	48000	47500	73.8	59.3	51.7	50.4	0	208	3	60	8.0	15	252	1,2,4,5,6,7,8,9,13,14,15

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|--|--|---|--|
| 1. R-410A REFRIGERANT                              | 5. 2" MERV 13 DISPOSABLE FILTER              | 9. DUAL CIRCUIT                           | 13. EXTERNAL DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR |
| 2. HIGH STATIC MOTOR                               | 6. CONDENSATE DRAIN TRAP WITH SHUTOFF SWITCH | 10. INDOOR UNIT POWERED FROM OUTDOOR UNIT | 14. STAINLESS STEEL DRAIN PAN                                    |
| 3. 2-SPEED FAN CONTROLLER (VFD) -STAGED AIR VOLUME | 7. 5 YEAR PARTS & LABOR EXTENDED WARRANTY    | 11. WIRED REMOTE CONTROLLER               | 15. RETURN AIR GRILLE  |
| 4. INDOOR UNIT SUBBASE                             | 8. UPFLOW CONFIGURATION                      | 12. LOW, MEDIUM, AND HIGH FAN SPEEDS      | 16. HEAT PUMP WITH HEATING CAPACITY OF 10,000 BTU/HR AT 17°F     |

## SPLIT SYSTEM CONDENSING UNIT SCHEDULE

MARK	LOCATION	BASIS OF DESIGN			NOMINAL SIZE (TONS)	COMPRESSOR QTY	COMPRESSOR HP	CONDENSER FAN QTY	CONDENSER FAN HP	UNIT ELECTRIC					WEIGHT (LBS)	NOTES
		MANUFACTURER	MODEL	ENERGY EFFICIENCY RATIO (EER)						VOLTAGE	PHASE	HERTZ	MCA (A)	MOCP (A)		
CU-1	EXTERIOR- GRADE	TRANE	TTA18043D	11.2	15.00	2	7	2	1	208	3	60	65.0	80	705	1,2,3,4,5,7
CU-2	EXTERIOR- GRADE	TRANE	TTA18043D	11.2	15.00	2	7	2	1	208	3	60	65.0	80	705	1,2,3,4,5,7
CU-3	EXTERIOR- GRADE	MITSUBISHI	PUZ-A12	16.4	1.00	1	2	1	--	208	1	60	11.0	15	92	1,3,5,6,8
CU-4	EXTERIOR- GRADE	MITSUBISHI	PUZ-A12	16.4	1.00	1	2	1	--	208	1	60	11.0	15	92	1,3,5,6,8
CU-5	EXTERIOR- GRADE	TRANE	TTA07243D	12.0	6.00	2	4.5	1	0.5	208	3	60	23.0	30	307	1,2,3,4,5,7
CU-6	EXTERIOR- GRADE	TRANE	TTA07243D	12.0	6.00	2	4.5	1	0.5	208	3	60	23.0	30	307	1,2,3,4,5,7
CU-7	EXTERIOR- GRADE	TRANE	TTA07243D	12.0	6.00	2	4.5	1	0.5	208	3	60	23.0	30	307	1,2,3,4,5,7
CU-8	EXTERIOR- GRADE	TRANE	TTA07243D	12.0	6.00	2	4.5	1	0.5	208	3	60	23.0	30	307	1,2,3,4,5,7

- |   |   |
|---|---|
| 1. R-410A REFRIGERANT                     | 5. EXTERNAL DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR |
| 2. 50/100% DUAL CIRCUIT                   | 6. INDOOR UNIT POWERED FROM OUTDOOR UNIT                        |
| 3. LOW AMBIENT CONTROL                    | 7. FACTORY PROVIDED SERVICE VALVES                              |
| 4. 5 YEAR PARTS & LABOR EXTENDED WARRANTY | 8. HEAT PUMP  |

# COMMERCIAL FAN-FORCED WALL HEATER

MARK	LOCATION	HEATING CAPACITY BTU/HR	CFM	ELECTICAL					GRILLE SIZE			BACK BOX			WEIGHT (LBS)	BASIS OF DESIGN		NOTES
				WATTS	VOLTS	PH	HZ	AMPS	H (IN)	W (IN)	D (IN)	H (IN)	W (IN)	D (IN)		MANUFACTURER	MODEL NO.	
FWH-1	OFFICE 201	5000	65	1500	208	1	60	7.2	12-1/8	10-5/8	7/8	11	9-1/4	4	12	QMARK MARLEY	CWH1202DSF	1,2,3
FWH-2	DRY ROOM 301	5000	65	1500	208	1	60	7.2	12-1/8	10-5/8	7/8	11	9-1/4	4	12	QMARK MARLEY	CWH1202DSF	1,2,3
FWH-3	DRY ROOM 3013	5000	65	1500	208	1	60	7.2	12-1/8	10-5/8	7/8	11	9-1/4	4	12	QMARK MARLEY	CWH1202DSF	1,2,3

1. COLOR: WHITE      2. PROVIDE 2" RECESS MOUNTING.      3. BUILT-IN THERMOSTAT

## ELECTRIC UNIT HEATER SCHEDULE

MARK	LOCATION	BASIS OF DESIGN		FAN		ELECTRIC HEATER		UNIT ELECTRIC				WEIGHT (LBS)	NOTES
		MANUFACTURER	MODEL	SUPPLY AIRFLOW (CFM)	FAN MOTOR HP	ELECTRIC HEAT (kW)	TEMPERATURE RISE (°F)	VOLTAGE	PHASE	HERTZ	MCA (A)		
EUH-1	2ND FLR EQUIPMENT ROOM	QMARK	MUH03-81	350	1/100	3	27	208	1	60	14.5	27	1,2,3,4,5
EUH-2	2ND FLR EQUIPMENT ROOM	QMARK	MUH03-81	350	1/100	3	27	208	1	60	14.5	27	1,2,3,4,5
EUH-3	2ND FLR EQUIPMENT ROOM	QMARK	MUH03-81	350	1/100	3	27	208	1	60	14.5	27	1,2,3,4,5
EUH-4	3RD FLR EQUIPMENT ROOM	QMARK	MUH03-81	350	1/100	3	27	208	1	60	14.5	27	1,2,3,4,5
EUH-5	3RD FLR EQUIPMENT ROOM	QMARK	MUH03-81	350	1/100	3	27	208	1	60	14.5	27	1,2,3,4,5

1. MOUNTING BRACKET
2. REMOTE WALL MOUNTED ADJUSTABLE THERMOSTAT
3. INTEGRAL POWER DISCONNECT SWITCH
4. HORIZONTAL DIFFUSER
5. MANUAL RESET

## EXHAUST FAN SCHEDULE

MARK	LOCATION	CFM	SP (IWC)	FRPM	MOTOR		ELECTRICAL				WEIGHT	BASIS OF DESIGN		NOTES
					WATTS	DRIVE	VOLTS	PH	HZ	FLA		MANUFACTURER	MODEL NO.	
EF-1	RESTROOM 302	120	0.25	651	19.00	DIRECT	115	1	60	0.5	30	GREENHECK	SP-A200	1

1. PROVIDE UNIT WITH BACKDRAFT DAMPER

## LOUVER SCHEDULE

MARK	SERVICE	CFM	PRESSURE DROP (IWC)	WIDTH	HEIGHT	MIN. FREE AREA (FT²)	MATERIAL	BLADE TYPE	BASIS OF DESIGN		NOTES
									MANUFACTURER	MODEL NO.	
LVR-1	AHU-3	20	0.02	12"	12"	0.30	ALUMNUM	HORIZONTAL	RUSKIN	ELF-375	
LVR-2	EF-1	120	0.02	12"	12"	0.30	ALUMNUM	HORIZONTAL	RUSKIN	ELF-375	
LVR-3	AHU-4	35	0.02	12"	12"	0.30	ALUMNUM	HORIZONTAL	RUSKIN	ELF-375	
LVR-4	AHU-1 & AHU-2	380	0.03	24"	24"	1.89	ALUMNUM	HORIZONTAL	RUSKIN	ELF-375	

## DIFFUSER & REGISTER SCHEDULE

MARK	DESCRIPTION	SIZE	BASIS OF DESIGN		NOTES
			MANUFACTURER	MODEL NO.	
R1	RETURN GRILLE	28"x40"	PRICE	510Z/F/S/A	1,2,5
R2	RETURN GRILLE	26"x14"	PRICE	510Z/F/S/A	1,2,5
R4	RETURN GRILLE	18"x18"	PRICE	510Z/F/S/A	1,2,5
R5	RETURN GRILLE	32"x20"	PRICE	510Z/F/S/A	1,2,5
S1	SUPPLY DIFFUSER	24"x24"	PRICE	SCD/31/3C	1,2,3,4
S2	SUPPLY REGISTER	10"x4"	PRICE	520N/S/A	1,2,6
S3	SUPPLY REGISTER	24"x16"	PRICE	520N/S/A	1,2,6
S4	SUPPLY REGISTER	12"x8"	PRICE	520N/S/A	1,2,6
S5	SUPPLY DIFFUSER	12"x12"	PRICE	SCD/31/3C	1,2,3,4
S6	SUPPLY DIFFUSER	24"x24"	PRICE	SCD/31/3C	1,2,7
T-1	TRANSFER GRILLE	12"x6"	PRICE	STG1/BF	5

1. MATERIAL- STEEL
2. COLOR- WHITE
3. SURFACE MOUNT
4. INTEGRAL ADJUSTABLE VOLUME CONTROL
5. ONE PIECE CONSTRUCTION
6. FOUR WAY ADJUSTABLE
7. T-BAR MOUNT

## TEMPORARY EXTERIOR PACKAGE UNIT SCHEDULE

MARK	AREA SERVED	NOMINAL COOLING CAPACITY (TONS)	NOMINAL HEATING CAPACITY (kW)	SUPPLY AIR CONNECTIONS	RETURN AIR CONNECTIONS	ELECTRICAL					REMARKS
						VOLT	PHASE	HERTZ	MCA	MCOP	
TEMP-1/2	BATTERY ROOM	10	N/A	1 @ 20"	1 @ 20"	208	3	60	60	--	1,2,3,4,5,6

1. INTEGRAL THERMOSTAT WITH RETURN AIR TEMPERATURE SENSOR
2. CAM LOCK PLUG CONFIGURATION
3. CAPABLE OF LOW AMBIENT OPERATION
4. AUTOMATIC RESTART
5. INTEGRAL CIRCUIT BREAKER
6. UNIT IS FOR COOLING ONLY, THE ELECTRICAL POWER REQUIREMENT LISTED IS FOR COOLING ONLY. IF UNIT IS PROVIDED WITH HEATING CAPABILITY, THE HEATING FUNCTION SHALL BE DISABLED AND LOCKED OUT.

**UNCHECKED**  
**WORK-IN-PROGRESS**

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PTSI Managed Services Inc.  
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Washington, DC, 20024, USA

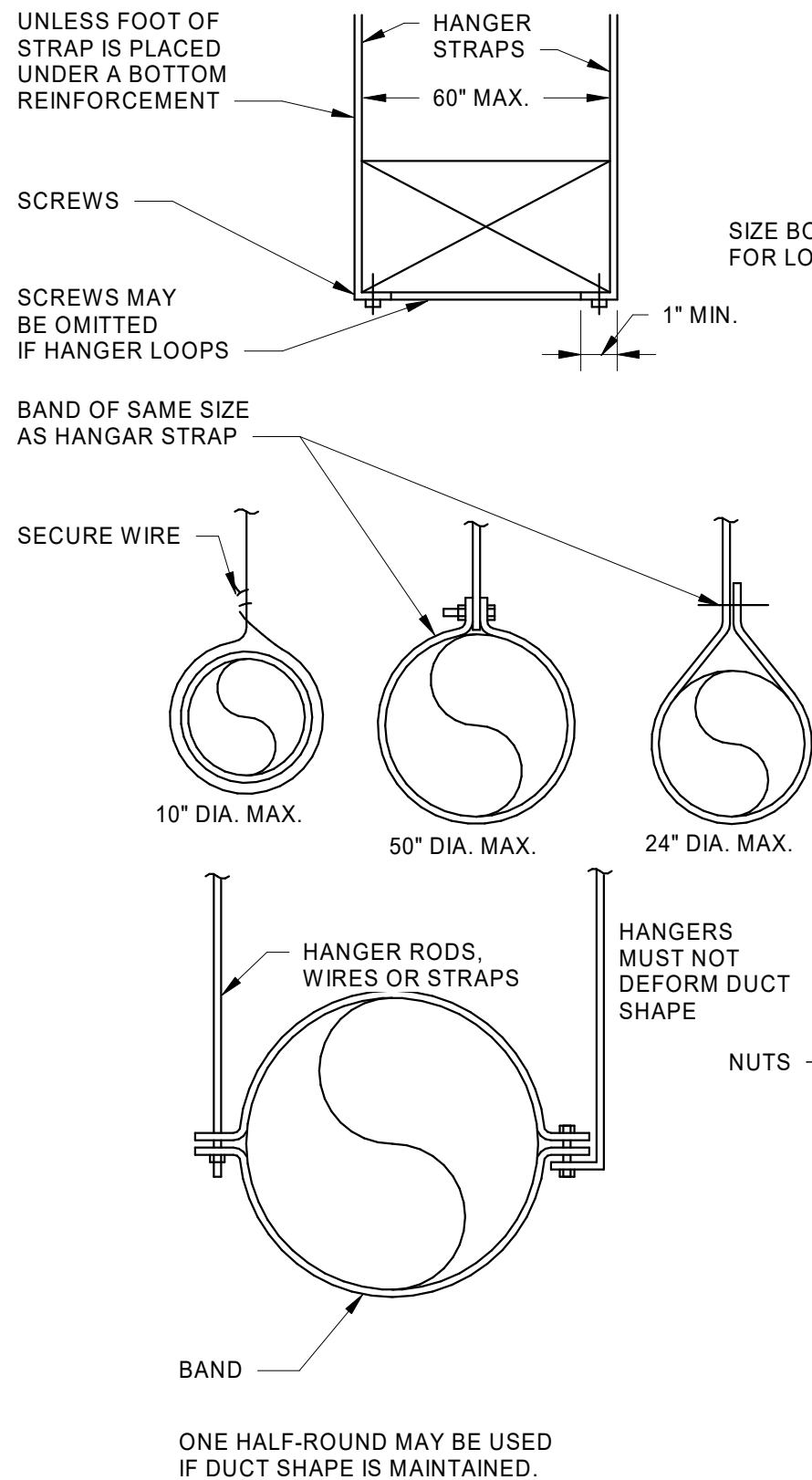


REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION									
ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT EQUIPMENT SCHEDULES									
RUSSELVILLE						AR			
REVIEWED BY	SUBMITTED BY		ISSUED BY		APPROVED BY				
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	PROJECT ENGINEER		MGR: ENGINEERING						
	DRAWN	AK	DRAWING NO		JCN	22002872			
	CHECKED	RL	QXR - 22002872 - M500		REV				

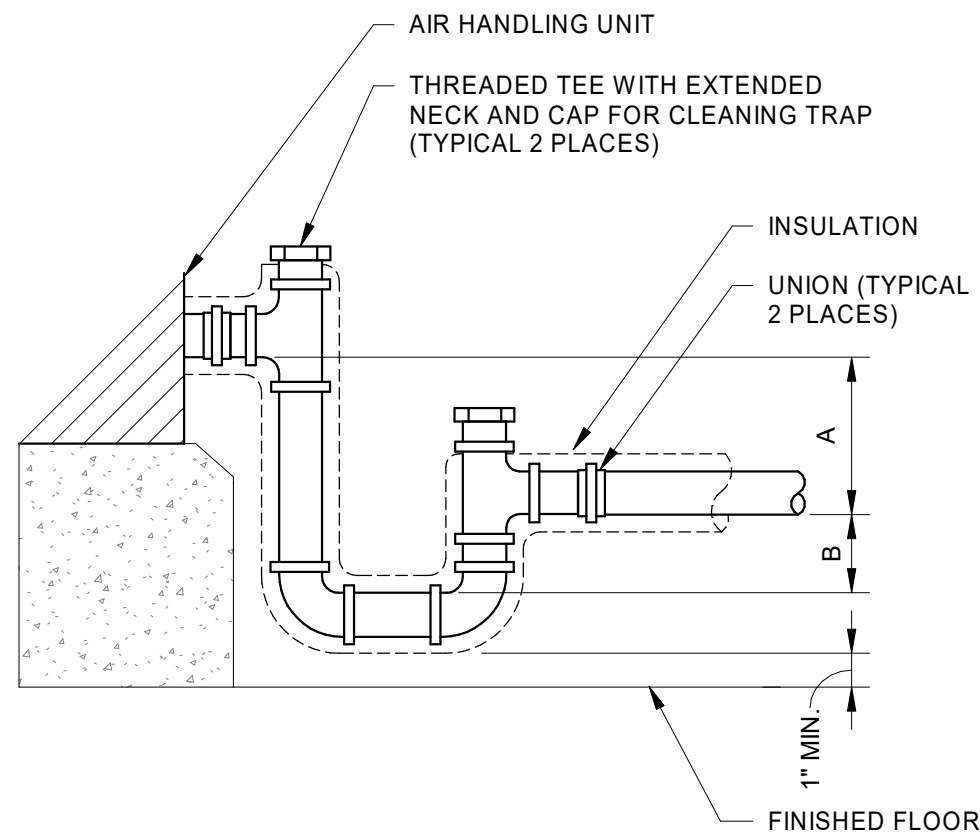


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### STRAP HANGERS



**E8** DUCT HANGER DETAILS  
M600 SCALE: NOT TO SCALE



A = 1" PLUS 1" FOR EACH 1" WC. OF AHU MAX. NEGATIVE STATIC PRESSURE

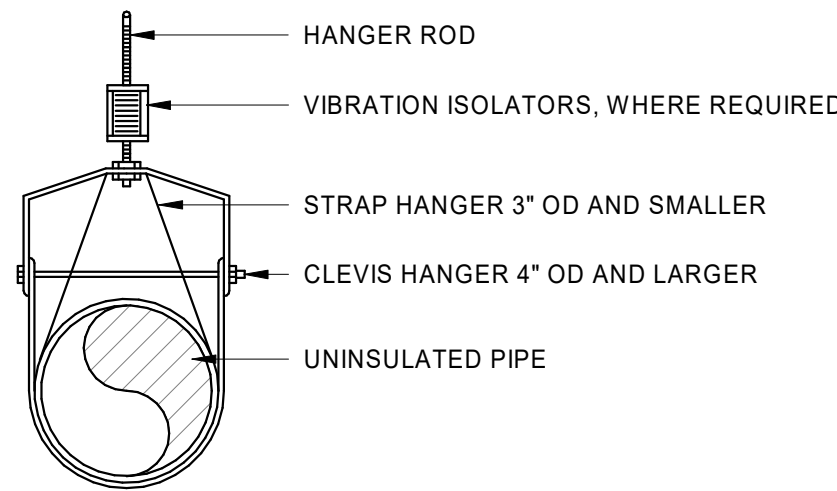
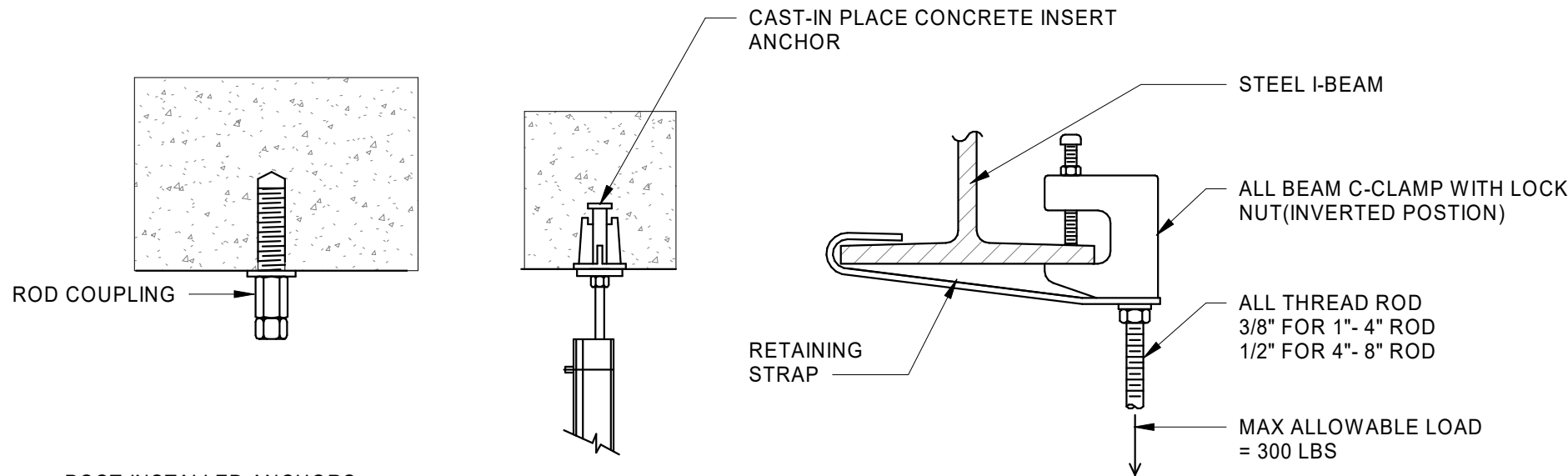
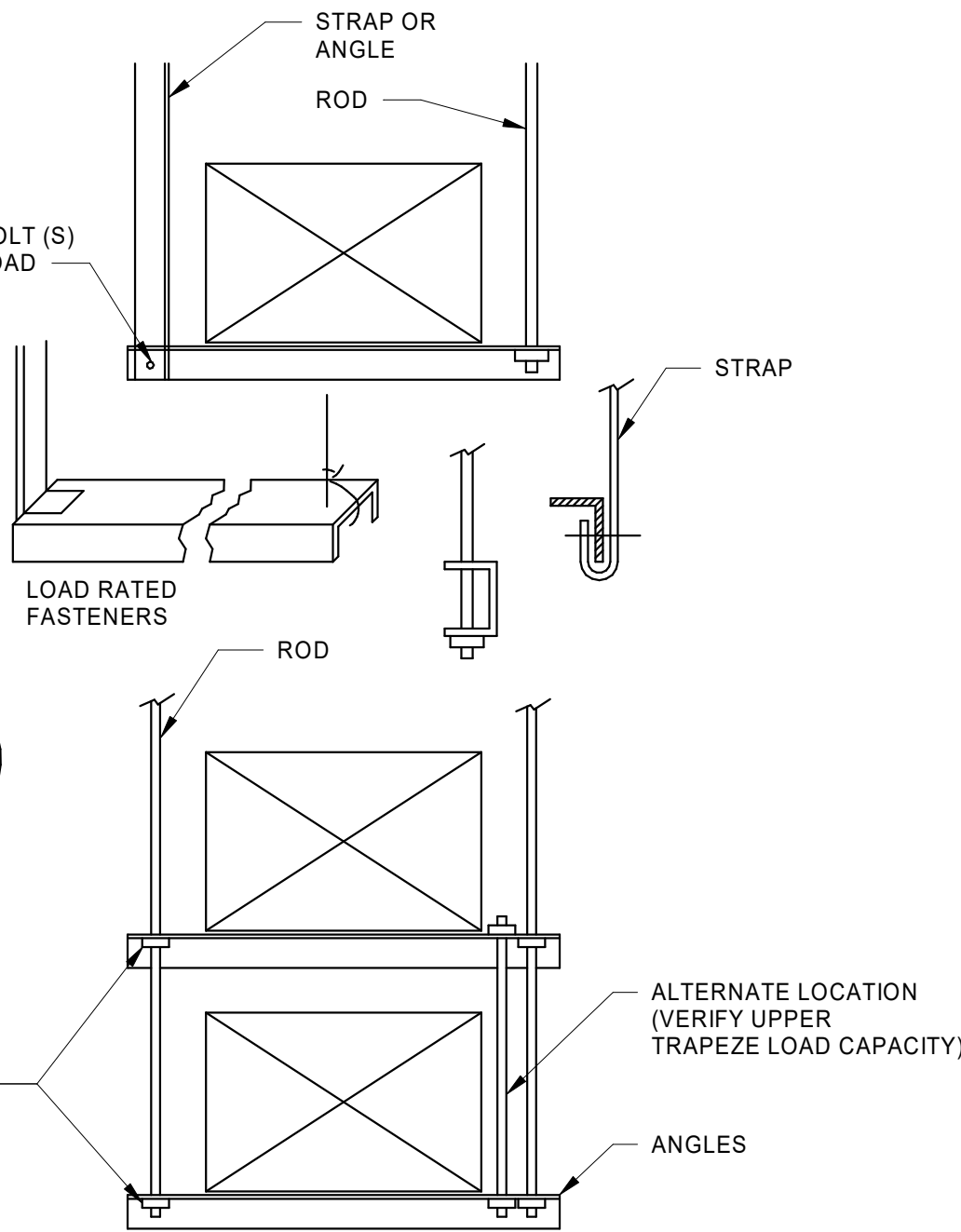
B = HALF OF A

#### NOTES:

1. 1 1/4" MIN. PVC PIPE SIZE OR DRAIN SIZE TAP IN AHU, INSULATE FOR CONDENSATE CONTROL AS REQUIRED.
2. DETAIL IS FOR DRAW THRU AIR HANDLING UNIT.

**B8** CONDENSATE DRAIN TRAP DRAW THRU DETAIL  
M600 SCALE: NOT TO SCALE

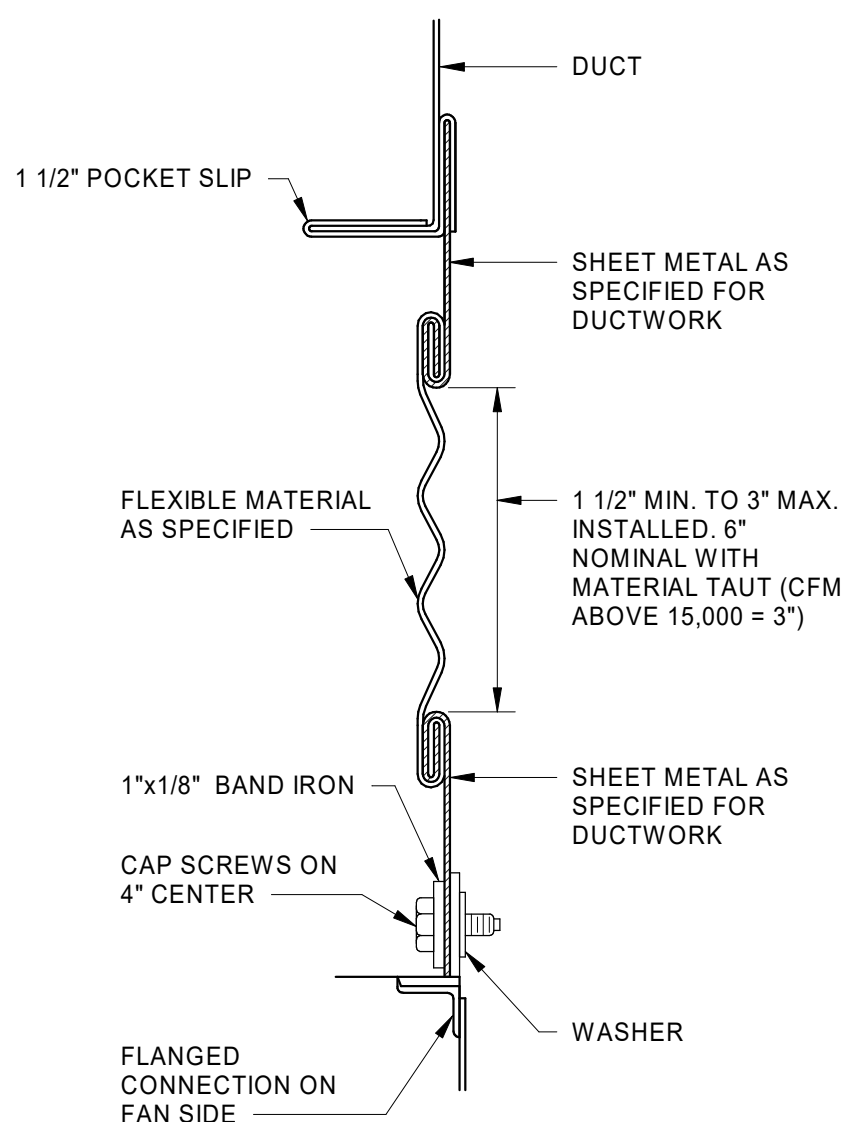
### TRAPEZE HANGERS



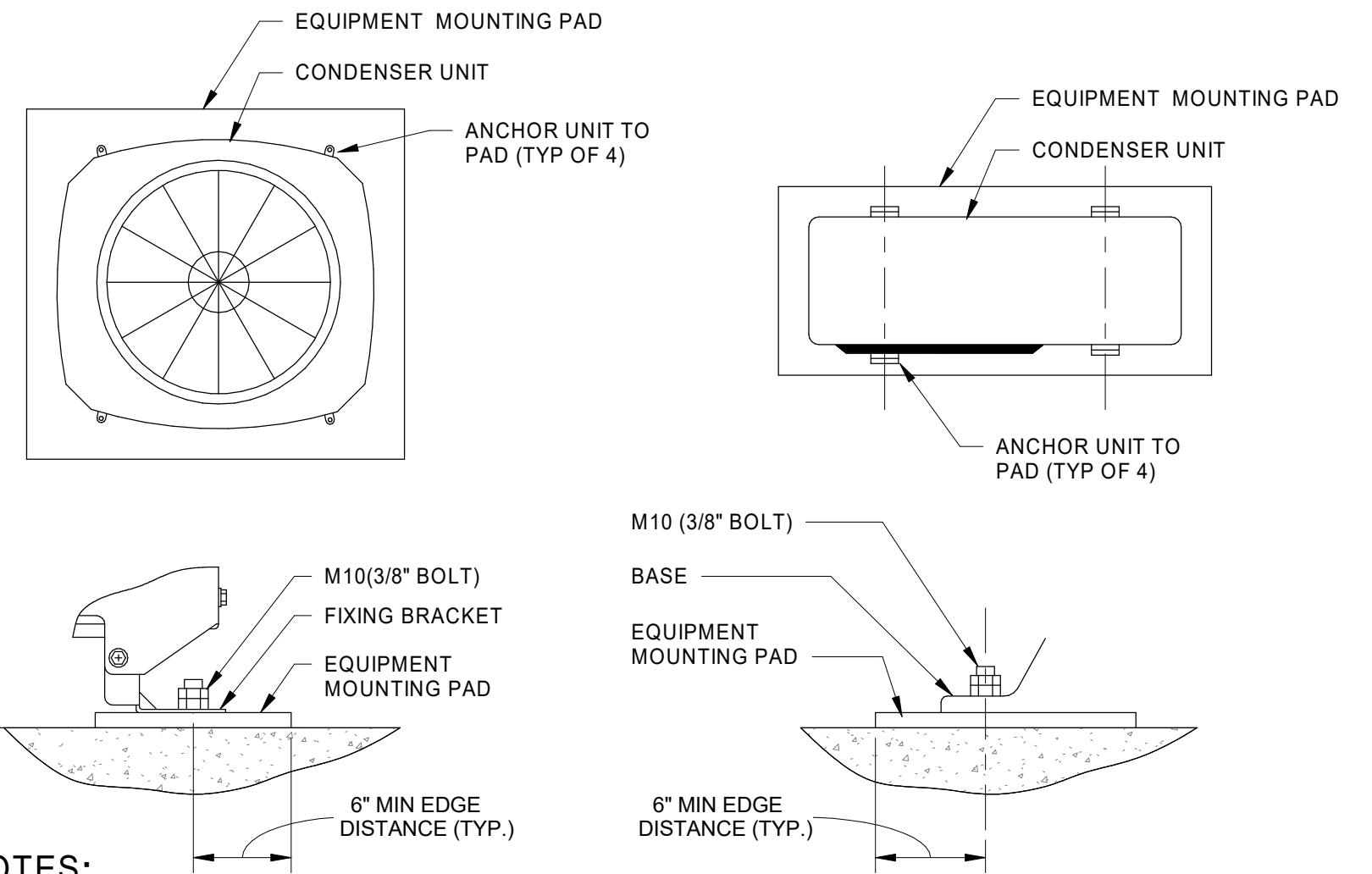
#### NOTES:

1. PROVIDE PRE-SET CONCRETE INSERTS FOR PIPE SUPPORTS AND SEISMIC RESTRAINTS WHENEVER POSSIBLE. WHEN DRILLED ANCHORS MUST BE PROVIDED, PERFORM NON-DESTRUCTIVE SCANNING OF CONCRETE TO AVOID REBAR AND POST-TENSION TENDONS.

**E5** PIPE HANGER DETAIL  
M600 SCALE: NOT TO SCALE



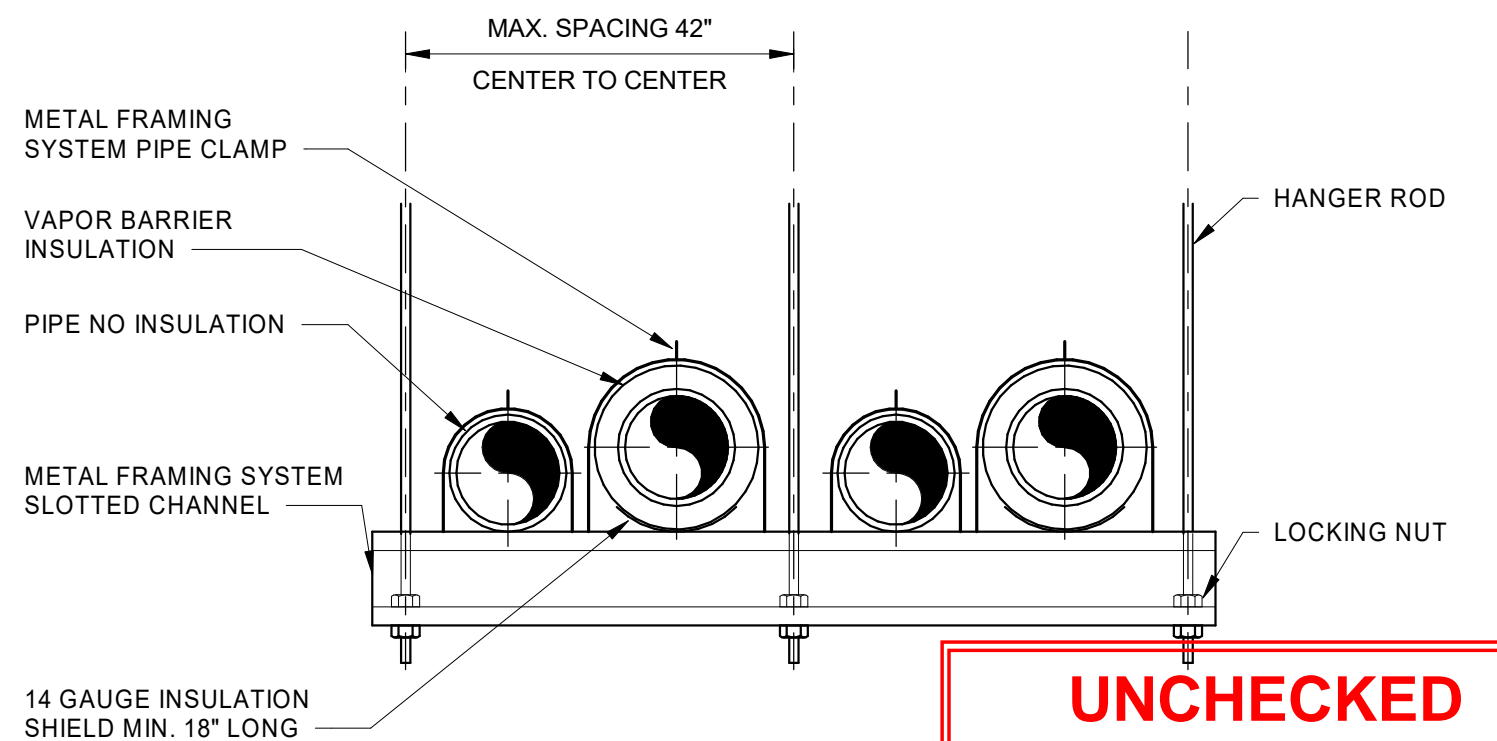
**B5** TYPICAL FLEXIBLE CONNECTION DETAIL  
M600 SCALE: N.T.S.



#### NOTES:

1. ATTACH THE EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATION.
2. SECURE THE UNIT'S BASE FIRMLY WITH FOUR-M10 FOUNDATION BOLTS. FIELD DETERMINE BOLT LENGTH TO ENSURE A MINIMUM OF TWO, AND NO MORE THAN FIVE, THREAD PITCHES EXTEND BEYOND THE TOP SURFACE OF THE NUT.
3. PROVIDE FACTORY SUPPLIED FIXING BRACKETS TO BE ANCHORED WITH POST-INSTALLED ANCHOR BOLTS.

**E3** CONDENSING UNIT MOUNTING DETAIL  
M600 SCALE: NOT TO SCALE



**C3** PIPE HANGER - METAL FRAMING CHANNEL DETAIL  
M600 SCALE: NOT TO SCALE

**UNCHECKED**  
**WORK-IN-PROGRESS**

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Washington, DC, 20024, USA



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ATO - TECHNICAL OPERATIONS			CENTRAL SERVICE AREA		
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DETAILS					
RUSSELVILLE					
REVIEWED BY		SUBMITTED BY		APPROVED BY	
PROJECT ENGINEER		MGR: ENGINEERING			
DESIGNED AK		ISSUED BY		DATE	JCN
DRAWN AK		ENGINEERING SERVICES		22002872	
CHECKED RL				DRAWING NO	
				QXR - 22002872 - M600	
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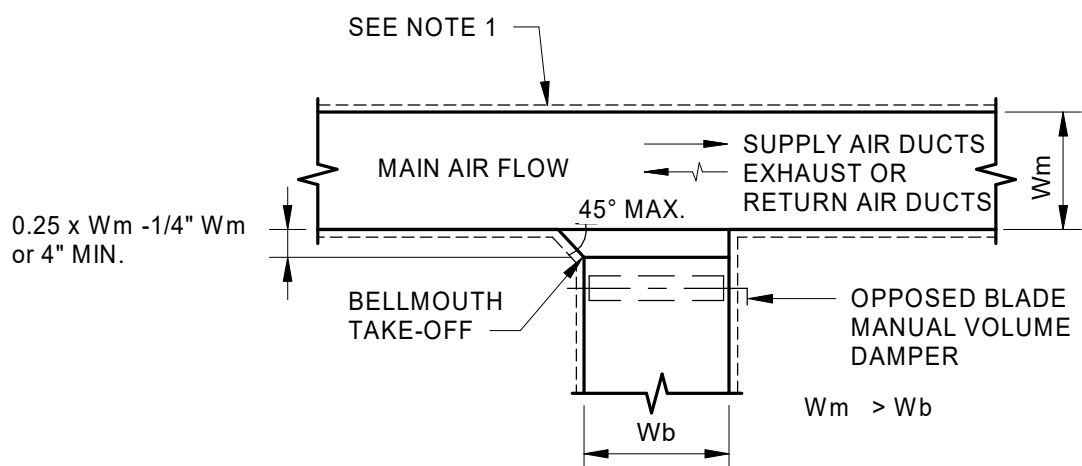
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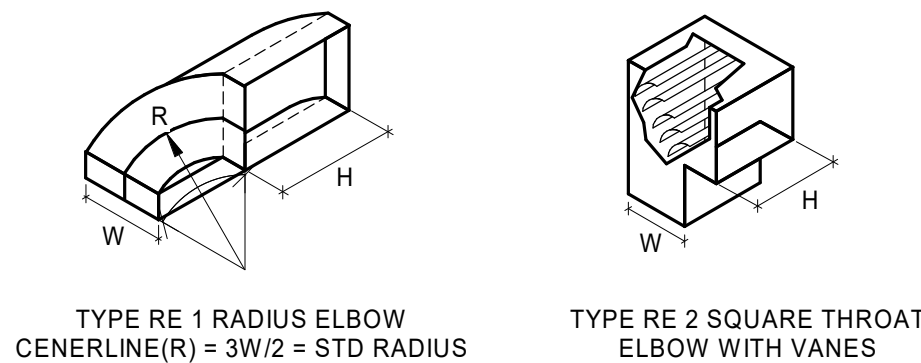


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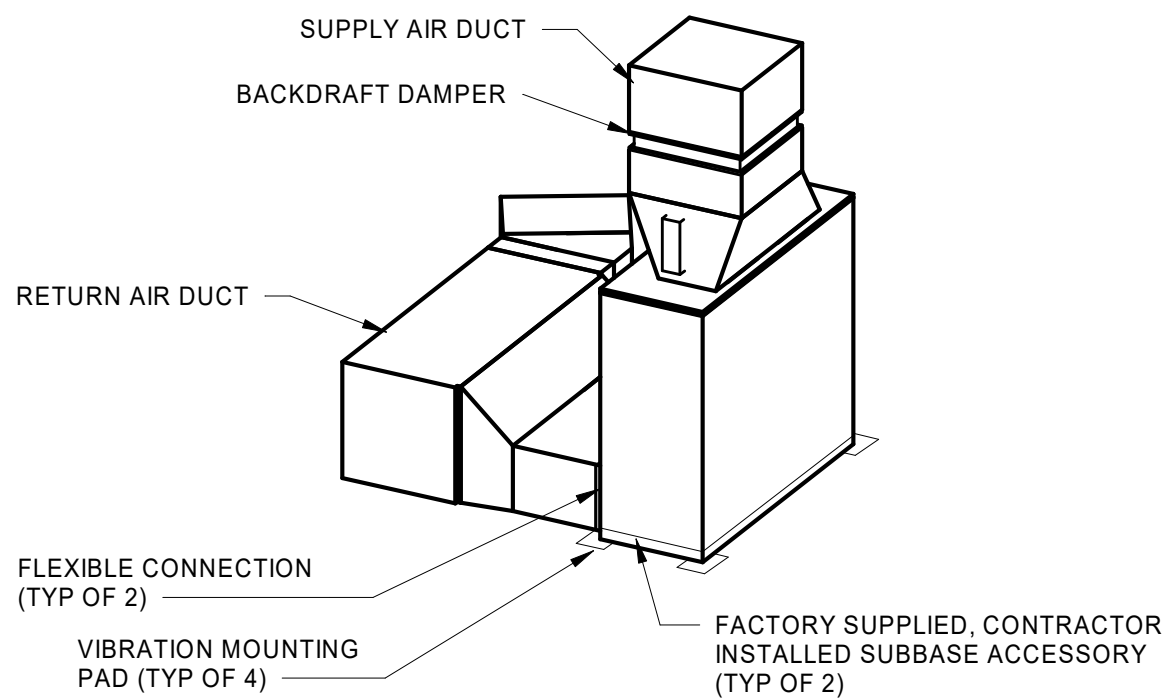


NOTES:  
1. ALL THERMAL INSULATION SHALL BE APPLIED EXTERNALLY TO DUCTWORK. INTERNAL INSULATION SHALL NOT BE PERMITTED.

F8 DUCT MAIN & TAKEOFF DETAIL  
M601 SCALE: NOT TO SCALE

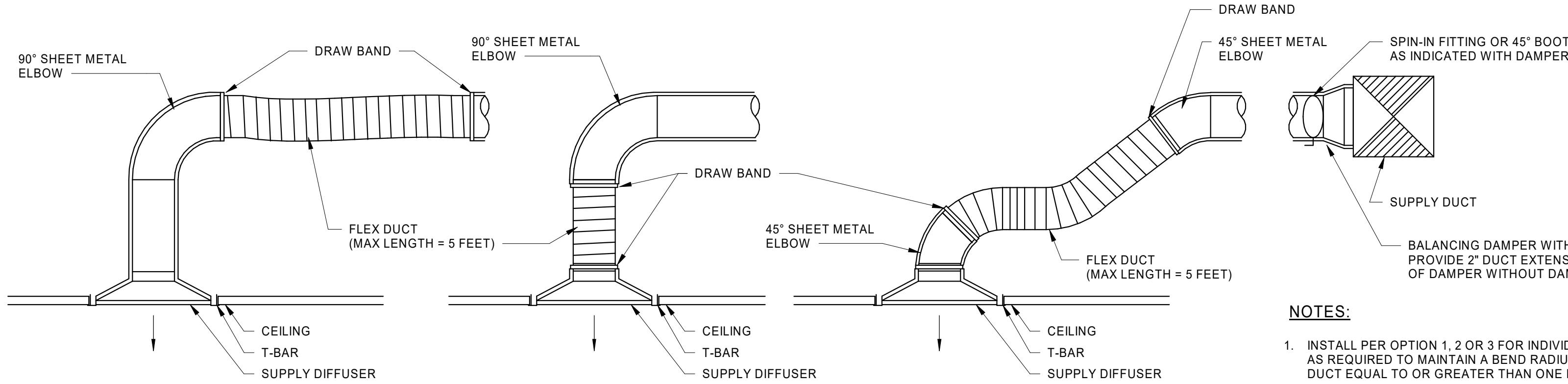


D8 RECTANGULAR SHEET METAL ELBOWS DETAIL  
M601 SCALE: NOT TO SCALE



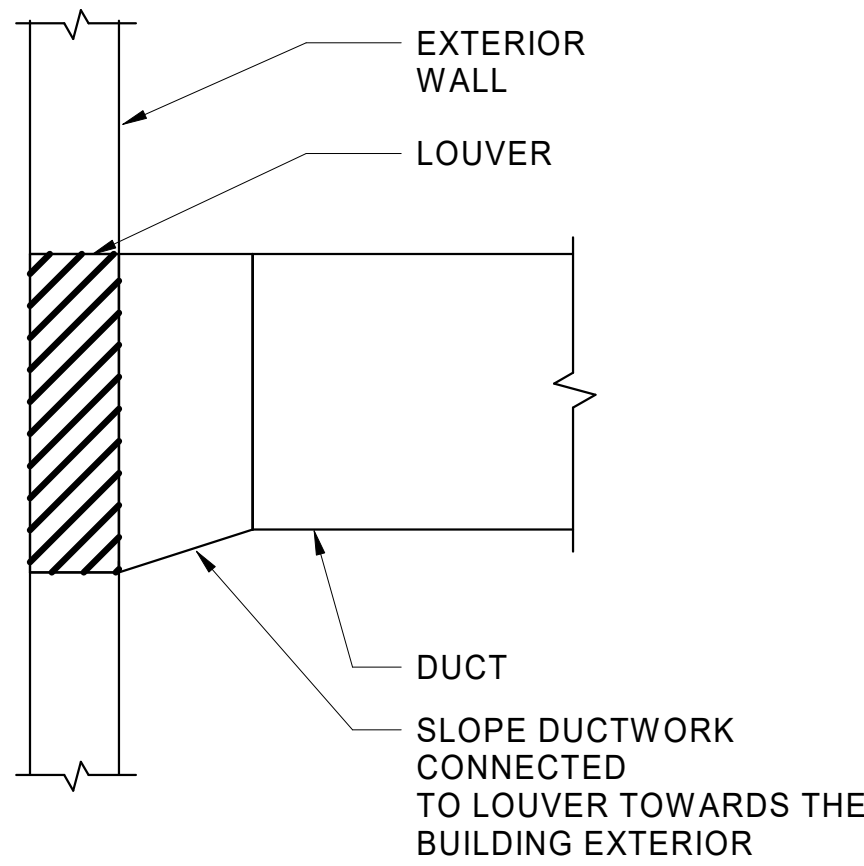
NOTES:  
1. SECURE SUBBASE TO AIR HANDLING UNIT AT EACH CORNER WITH FACTORY PROVIDED SCREWS.  
2. DO NOT SECURE SUBBASE TO FLOOR. FIELD LOCATE FINAL AIR HANDLER LOCATION TO ACCOMMODATE EXISTING STRUCTURE AND DUCTWORK ROUTING.

A8 AHU 2 BASE- MOUNT DETAIL  
M601 SCALE: NOT TO SCALE

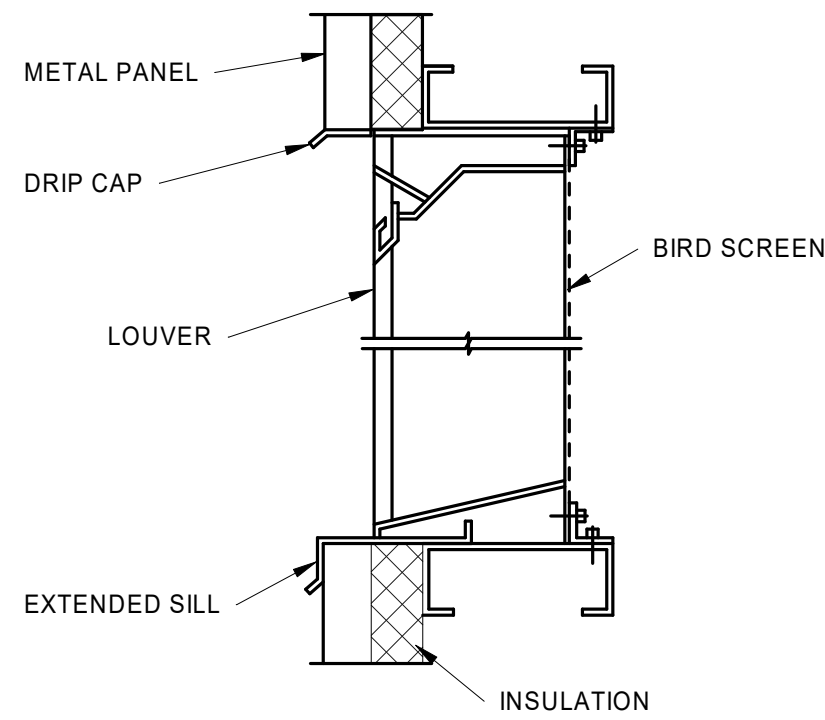


NOTES:  
1. INSTALL PER OPTION 1, 2 OR 3 FOR INDIVIDUAL INSTALLATIONS AS REQUIRED TO MAINTAIN A BEND RADIUS OF THE FLEXIBLE DUCT EQUAL TO OR GREATER THAN ONE DUCT DIAMETER

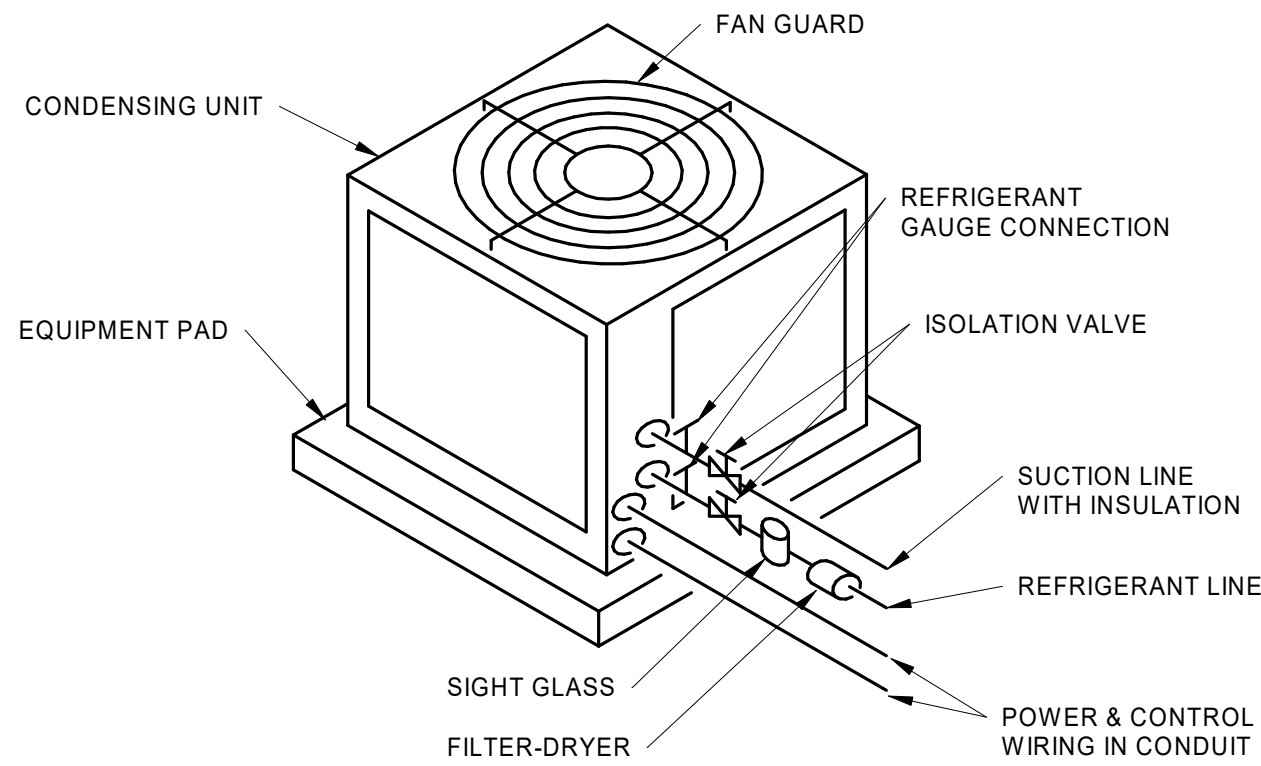
F6 TYPICAL FLEX DUCT AT DIFFUSER DETAIL  
M601 SCALE: NTS



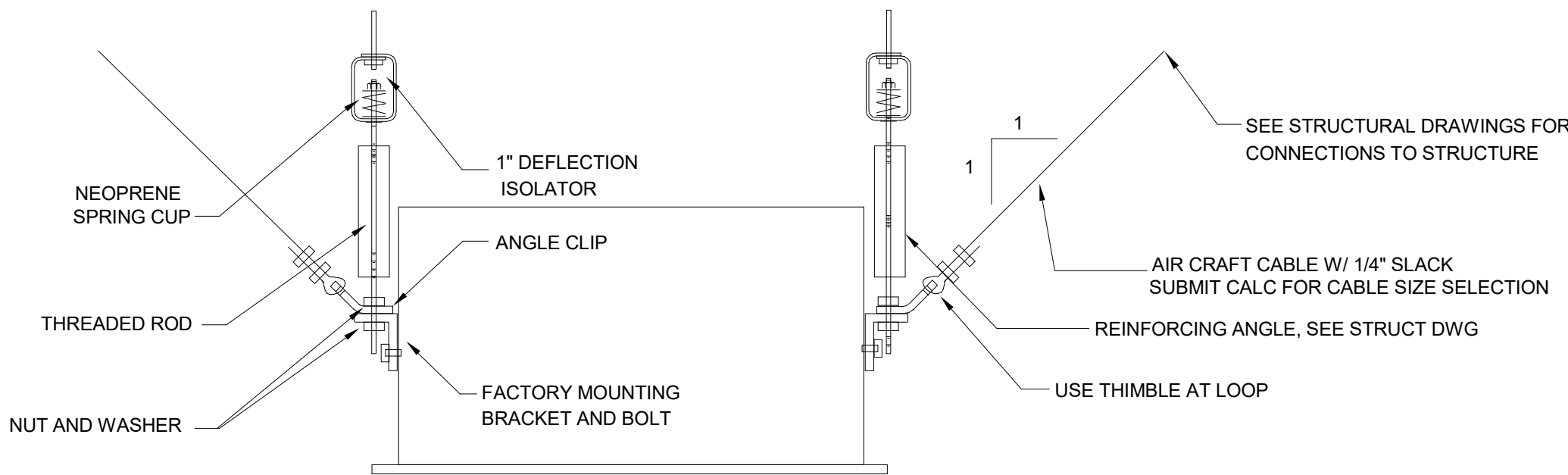
D6 LOUVER DUCT CONNECTION  
M601 SCALE: NTS



D4 LOUVER DETAIL  
M601 SCALE: NTS



D2 CONDENSING UNIT DETAIL  
M601 SCALE: NTS



A6 CEILING CASSETTE UNIT HANGER AND SEISMIC RESTRAINT DETAIL  
M601 SCALE: NOT TO SCALE

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA									
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DETAILS									
RUSSELVILLE AR									
REVIEWED BY	SUBMITTED BY		DO NOT SIGN		DO NOT SIGN		DO NOT SIGN		APPROVED BY
PROJECT ENGINEER		DATE		MGR: ENGINEERING		JCN		22002872	
DESIGNED AK		ISSUED BY		ENGINEERING SERVICES		DRAWING NO		QXR - 22002872 - M601	
DRAWN AK									
CHECKED RL									
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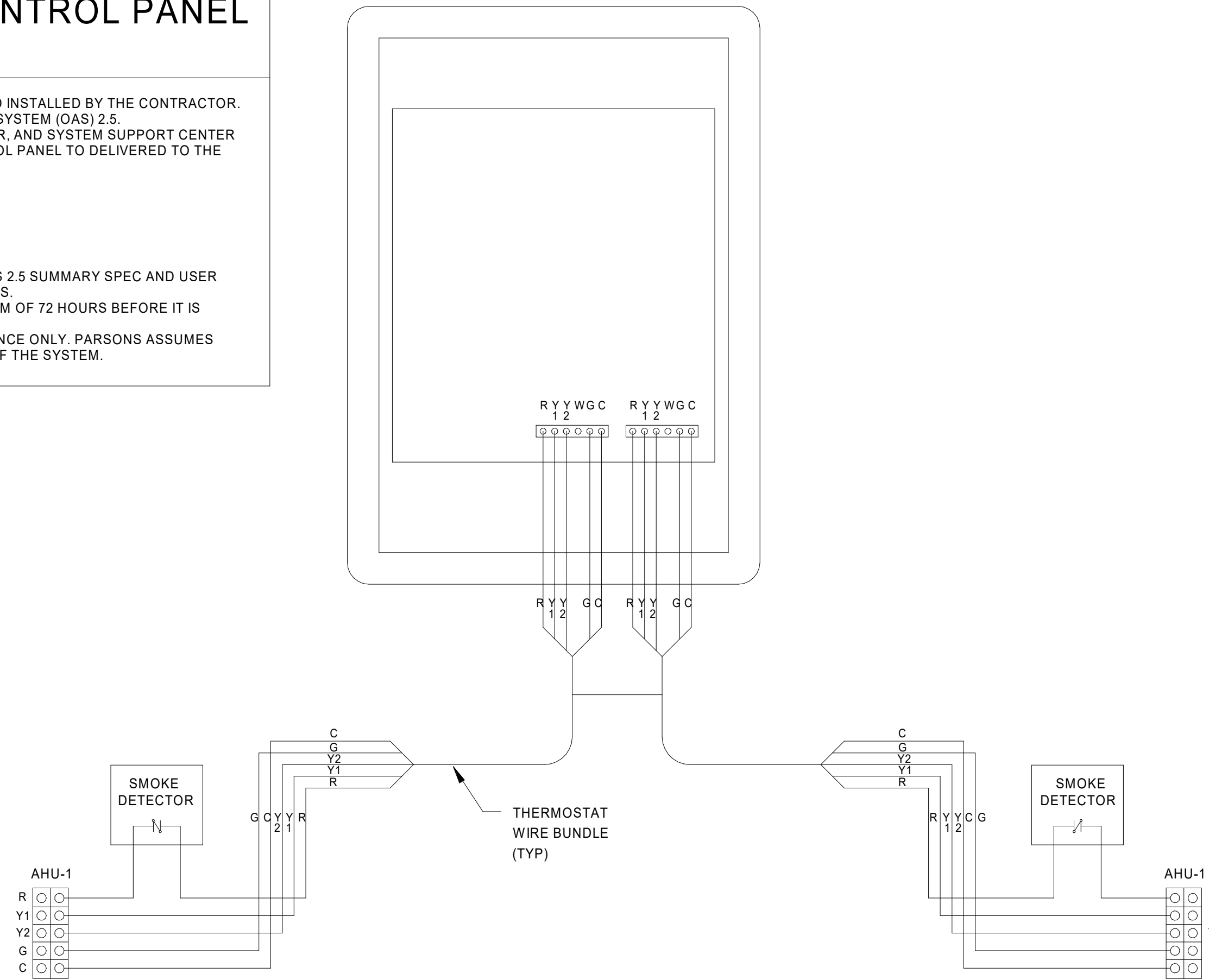
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1. THE HVAC CONTROL PANEL (NDP) SHALL BE FURNISHED BY THE FAA AND INSTALLED BY THE CONTRACTOR. THE CONTROL PANEL TO BE INSTALLED IS THE OVERTEMP AUTOMATED SYSTEM (OAS) 2.5.
2. AT THE START OF THE PROJECT THE CONTRACTOR, RESIDENT ENGINEER, AND SYSTEM SUPPORT CENTER (SSC) SHALL COORDINATE AND MAKE ARRANGEMENTS FOR THE CONTROL PANEL TO DELIVERED TO THE PROJECT SITE.
3. THE CONTROL PANEL MAY BE OBTAINED BY CONTACTING:  
THE FAA NATIONAL STAGING AREA (AJW-2C15P)  
210 S. GEOSPACE DR.  
INDEPENDENCE, MO 64056  
PHONE: 818.329.3970
4. FOR INSTALLATION REQUIREMENTS & INSTRUCTIONS REFER TO THE OAS 2.5 SUMMARY SPEC AND USER MANUAL INCLUDED IN THE APPENDIX OF THIS PROJECT'S SPECIFICATIONS.
5. THE CONTROL SYSTEM SHALL BE TESTED AND OPERATED FOR A MINIMUM OF 72 HOURS BEFORE IT IS ACCEPTABLE TO REMOVE THE TEMPORARY HVAC UNITS FROM SERVICE.
6. ALL INFORMATION PERTAINING TO THE OAS 2.5 IS PROVIDED AS REFERENCE ONLY. PARSONS ASSUMES NO LIABILITY FOR THE INSTALLATION, OPERATION AND PERFORMANCE OF THE SYSTEM.



SYMBOL	DESCRIPTION	STANDARD WIRE COLOR
R	CONTROL POWER (24VAC) FROM ASSOCIATED HVAC UNIT	RED
Y1	STAGE 1 COOLING, CONTROL POINT	YELLOW
Y2	STAGE 2 COOLING, CONTROL POINT	BLUE
W	HEAT CONTROL POINT	WHITE
G	FAN (SUPPLY AIR BLOWER)	GREEN
C	COMMON OR NEUTRAL	BROWN

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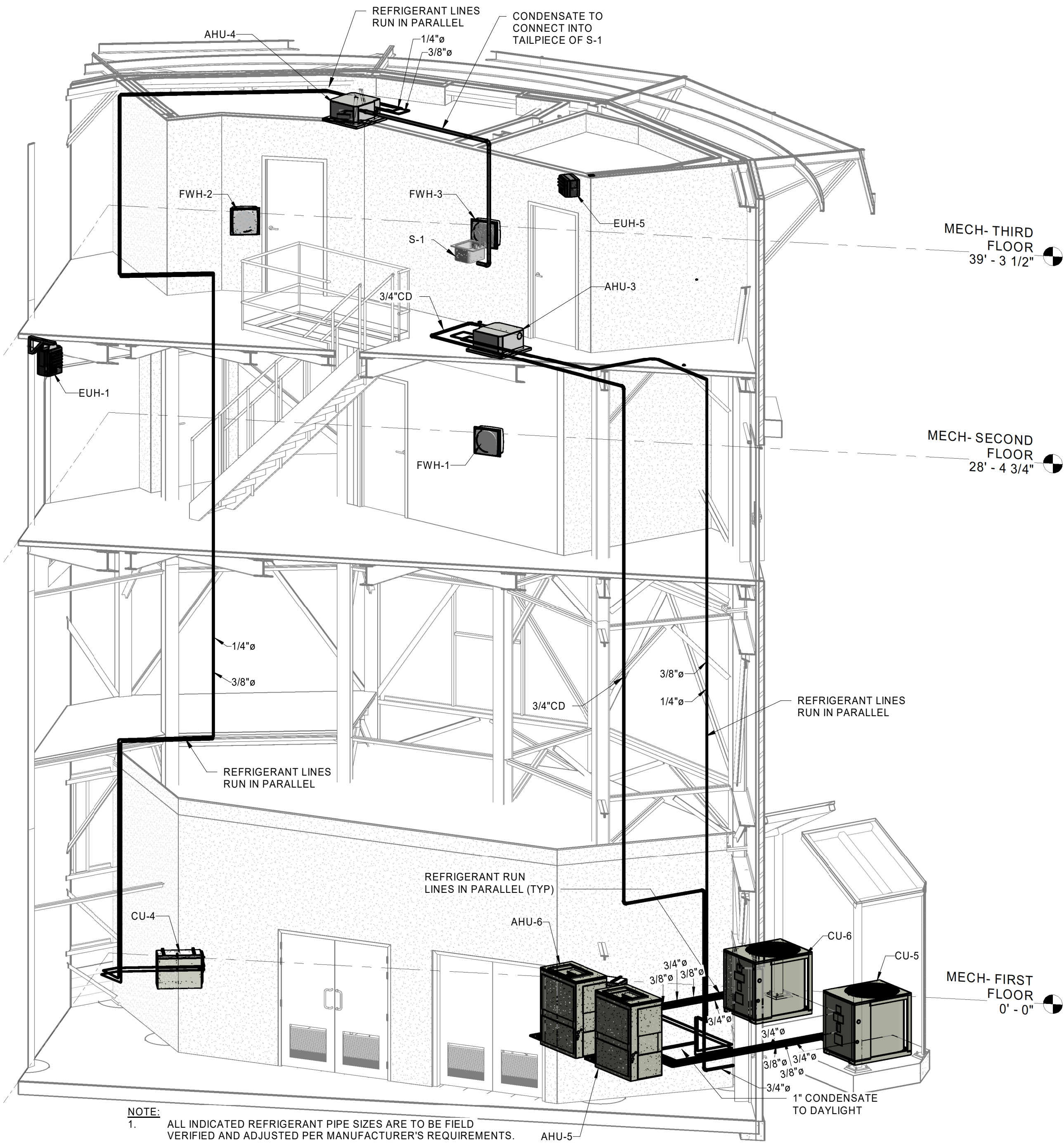
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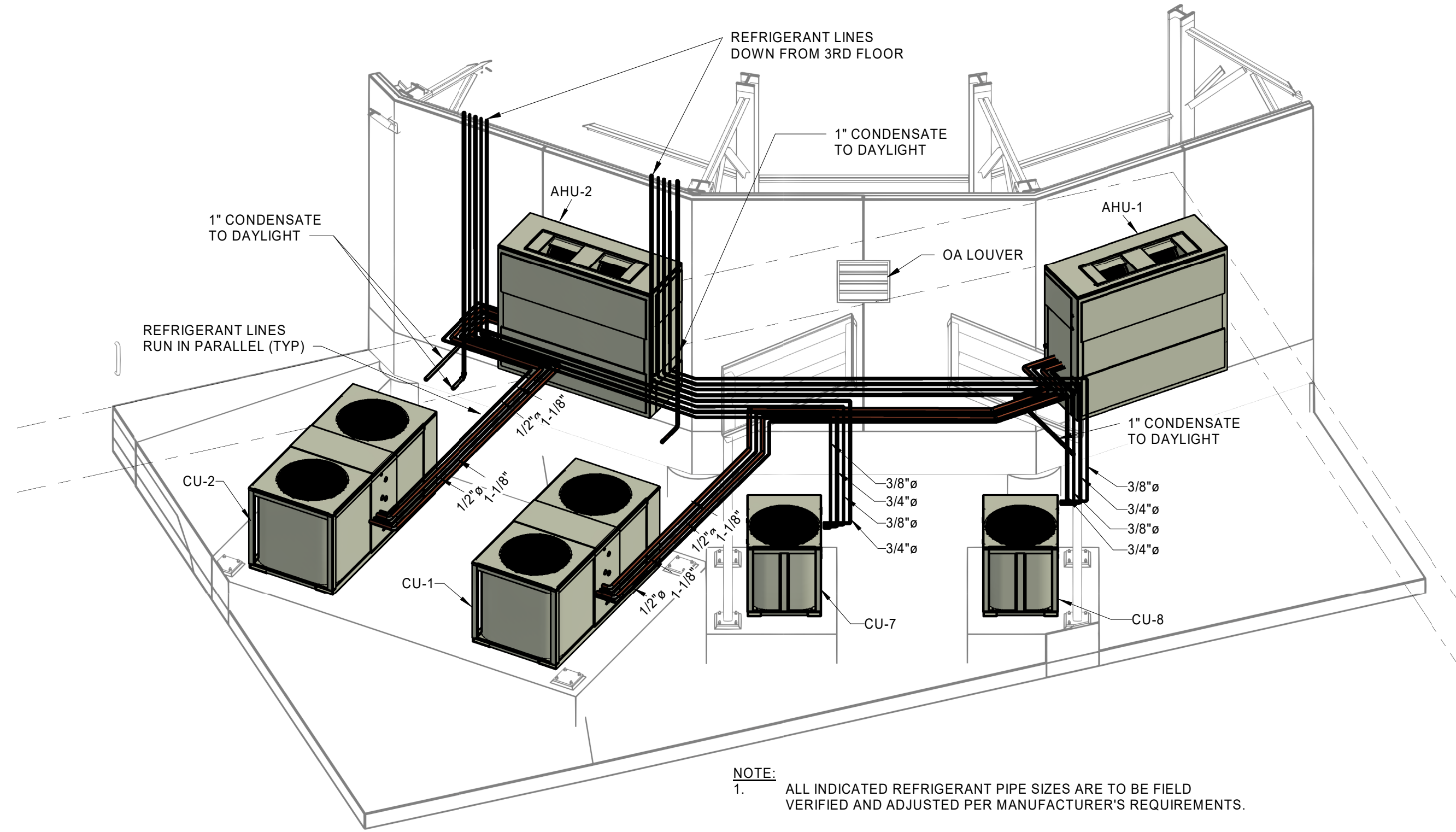
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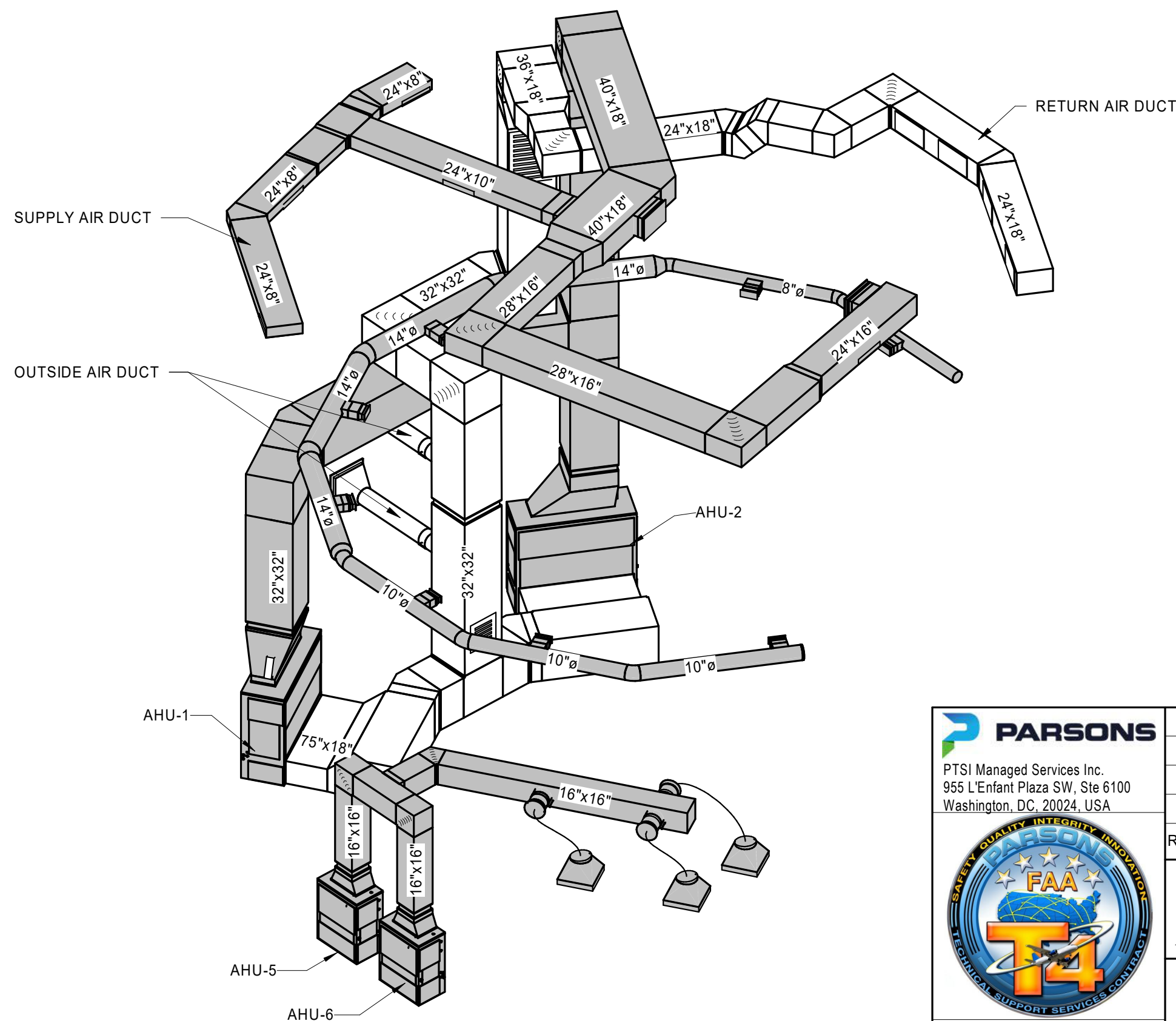
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**B7** 3D VIEW - MECHANICAL REFRIGERANT AND CONDENSATE LINES  
M900 SCALE: NOT TO SCALE



**E4** 3D VIEW - MECHANICAL REFRIGERANT AHU-1, 2 AND CU-1, 2, 7 & 8  
M900 SCALE: NOT TO SCALE



**1** 3D VIEW DUCTWORK FOR AHU 1, 2, 5 & 6  
M900 SCALE: NOT TO SCALE

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA									
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT ISOMETRIC VIEWS									
RUSSELVILLE AR									
REVIEWED BY	SUBMITTED BY	APPROVED BY							
DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN DO NOT SIGN									
PROJECT ENGINEER		DESIGNED		ISSUED BY		MGR: ENGINEERING			
DATE		Designer		ENGINEERING SERVICES		DATE		JCN	22002872
DRAWN		Author				DRAWING NO			
CHECKED		Checker				QXR - 22002872 - M900		REV	

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NOT FOR CONSTRUCTION

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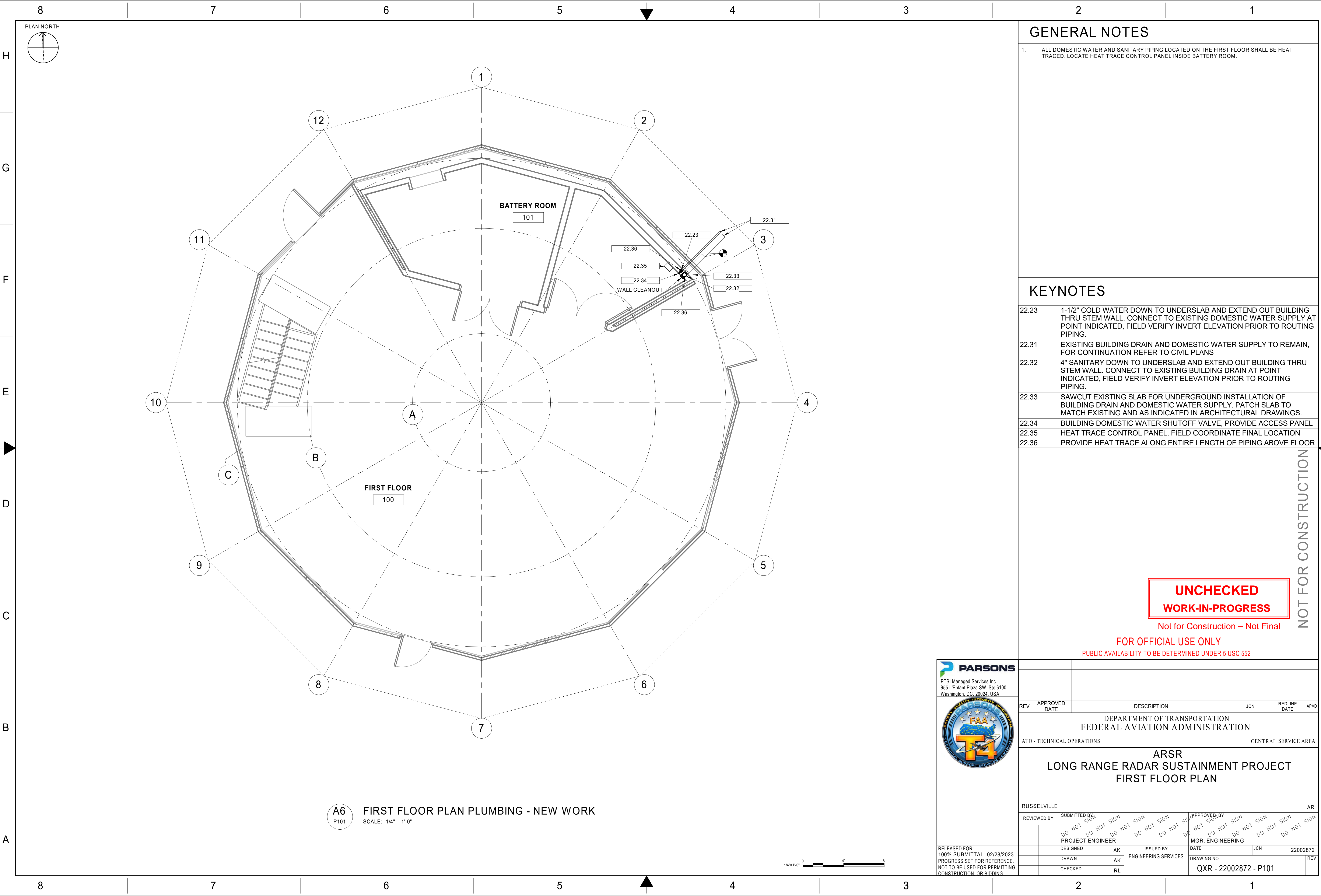




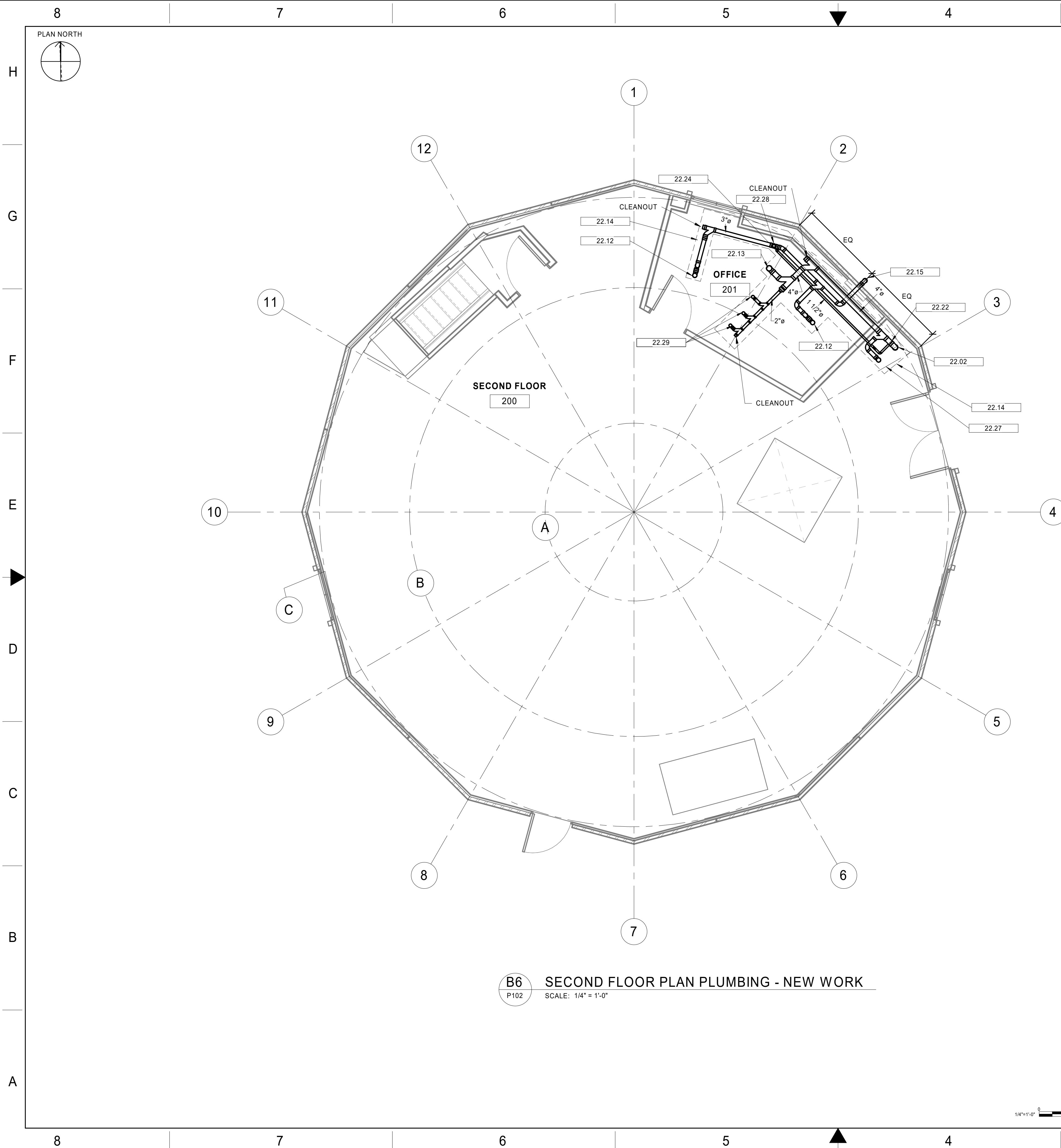












## GENERAL NOTES

1. ALL PLUMBING WORK SHOWN IN OFFICE, ROOM 201 OCCURS IN CEILING SPACE.

## KEYNOTES

22.02	4" SANITARY DOWN TO FLOOR BELOW
22.12	3" SANITARY DROP FROM EMERGENCY FLOOR DRAIN ABOVE. PROVIDE WATERLESS VALVE ON DRAIN OUTLET.
22.13	4" SANITARY DROP FROM FLOOR ABOVE
22.14	DRAIN PAN LOCATED BENEATH ALL EXPOSED SANITARY AND WATER PIPING. SLOPE DRAIN PAN AWAY FROM PLUMBING FIXTURES. EXTEND 1" HARD PIPE DRAIN THRU EXTERIOR WALL AND TURN DOWN.
22.15	EXTEND 3" EMERGENCY DRAIN THRU EXTERIOR WALL AND TURN DOWN
22.22	1-1/2" COLD WATER RISE FROM FLOOR BELOW TO FIXTURES
22.24	1-1/2" COLD WATER UP TO PLUMBING FIXTURES ON THE FLOOR ABOVE
22.27	3" SANITARY DROP FROM SERVICE SINK ABOVE
22.28	2" VENT RISE TO FLOOR ABOVE
22.29	2" SANITARY DROP FROM FLOOR ABOVE

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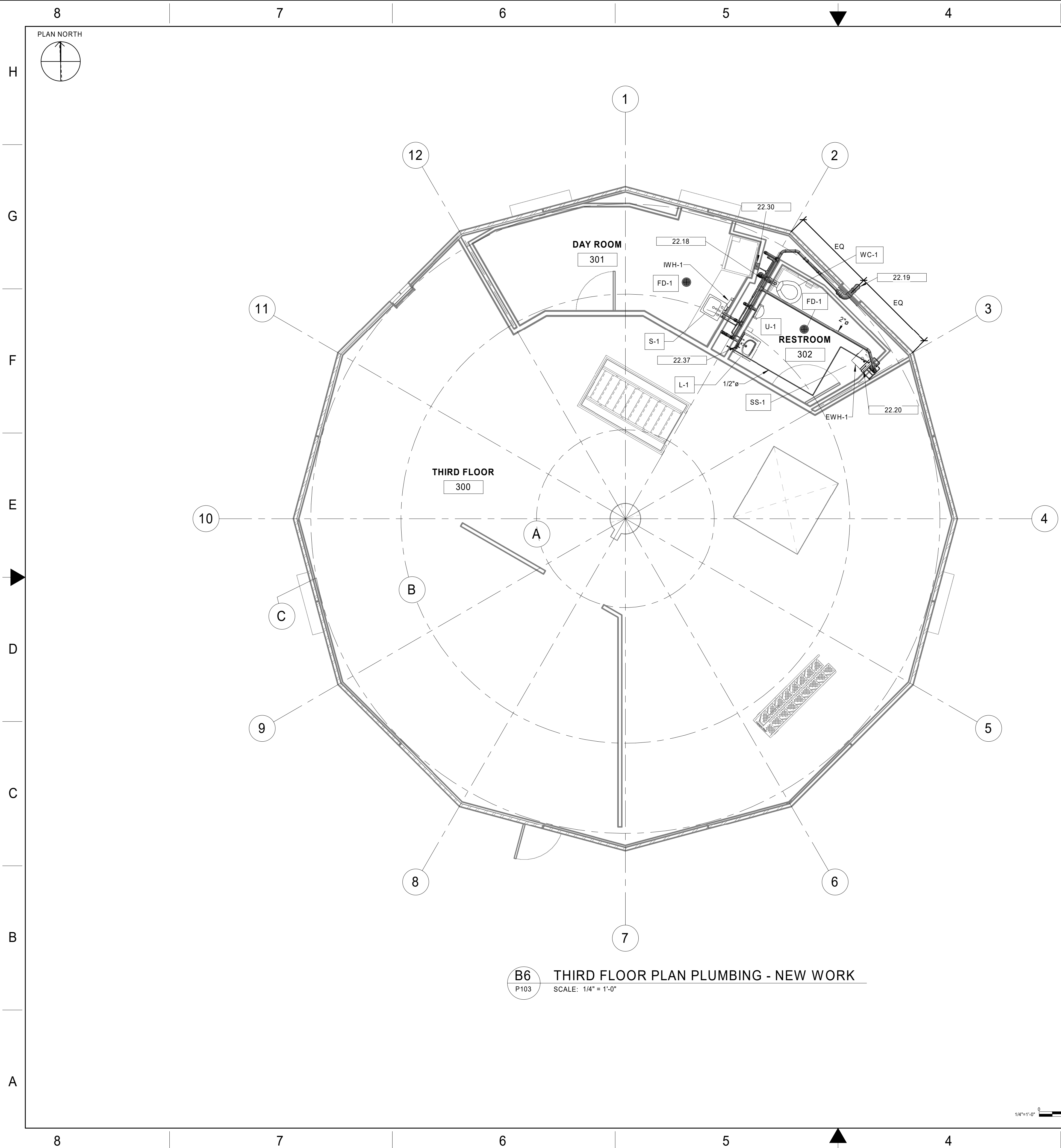
PTSI Managed Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA

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		PROJECT ENGINEER		WORK ENGINEERING	
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		DRAWN	AK	ENGINEERING SERVICES	JCN
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				QXR - 22002872 - P102	
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## GENERAL NOTES

## KEYNOTES

22.18	4" SANITARY DROP FROM WATER CLOSET CARRIER TO FLOOR BELOW
22.19	EXTEND 4" VENT THRU EXTERIOR WALL AND TURN DOWN
22.20	WALL MOUNTED TANK TYPE WATER HEATER ABOVE SERVICE SINK. EXTEND HOT WATER FROM HEATER TO LAVATORY AND SERVICE SINK. PROVIDE 1-1/2" DEEP DRAIN PAN UNDER WATER HEATER AND 3/4" DRAIN. EXTEND PRESSURE/TEMPERATURE RELIEF VALVE DISCHARGE AND DRAIN PAN DOWN TO SERVICE SINK
22.21	WALL MOUNTED INSTANTANEOUS WATER HEATER IN CABINET BELOW SINK. EXTEND HOT WATER FROM HEATER TO FIXTURE.
22.30	ICE MAKER OUTLET BOX IN WALL WITH QUARTER TURN VALVE AND 1/4" WATER LINE
22.37	POINT-OF-USE THERMOSTATIC MIXING VALVE BELOW LAVATORY

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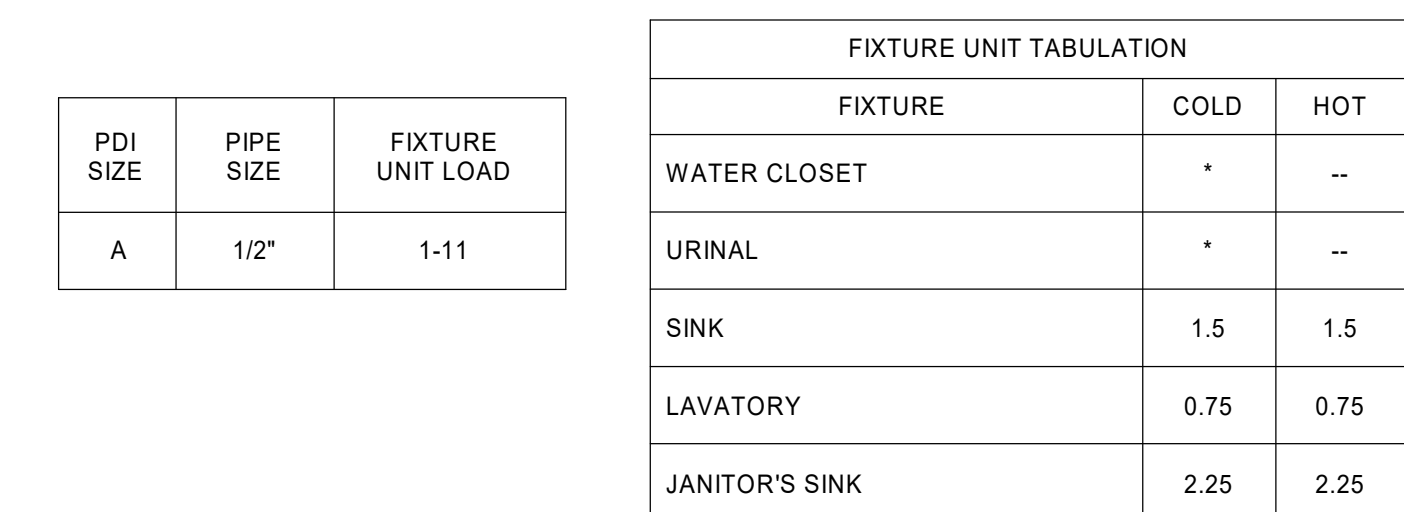
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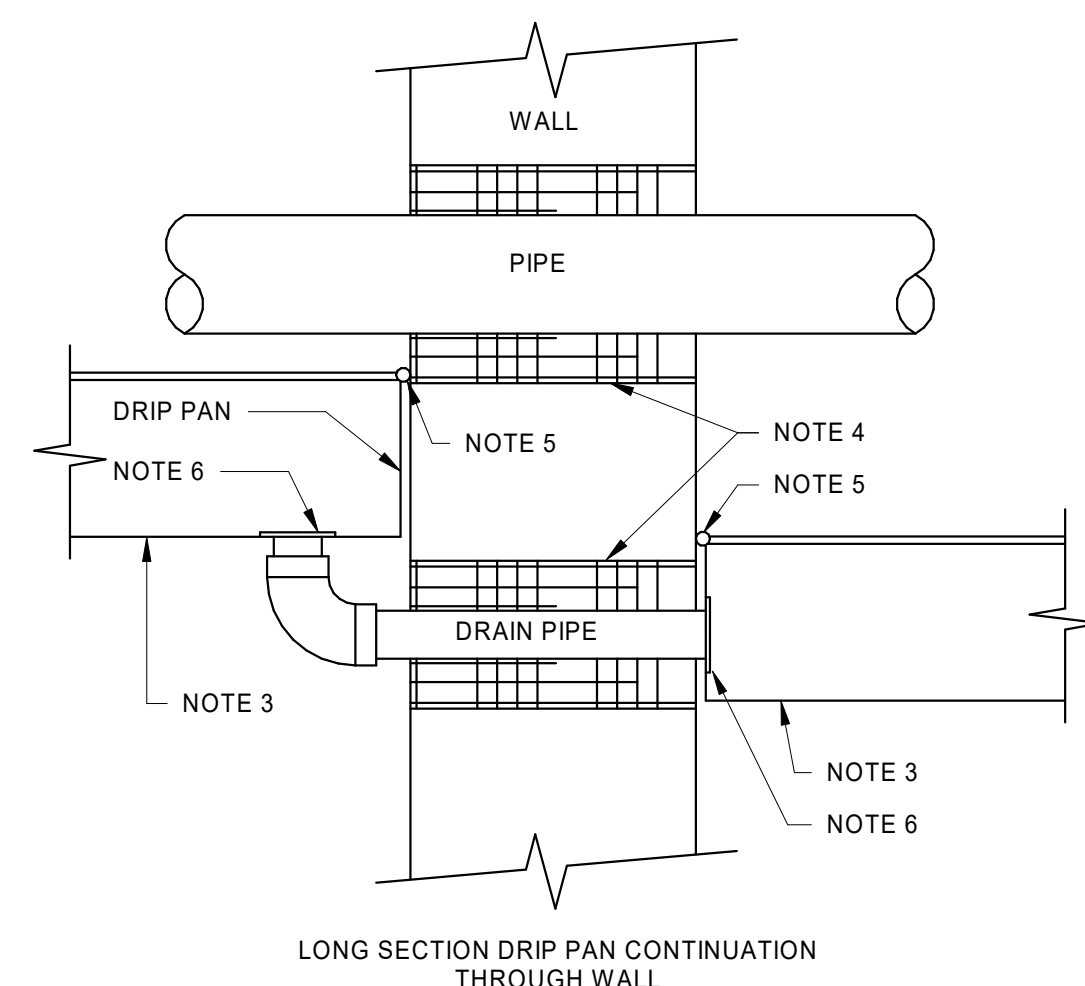
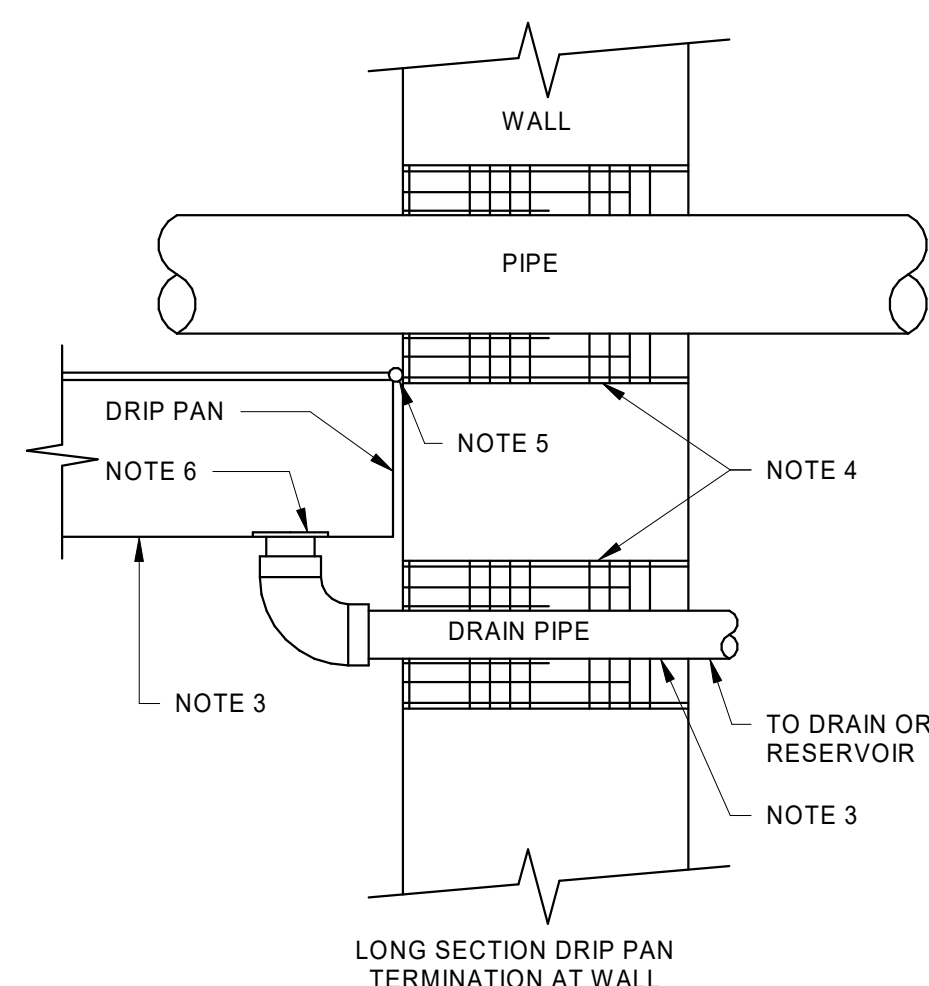
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NOTE:

PROVIDE BELLWS TYPE WATER HAMMER ARRESTORS. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE RISER DIAGRAM AND/OR PER THE TABLES SHOWN.



NOTES:

- A8** PIPE DRIP PAN DETAIL  
P600 SCALE: NOT TO SCALE

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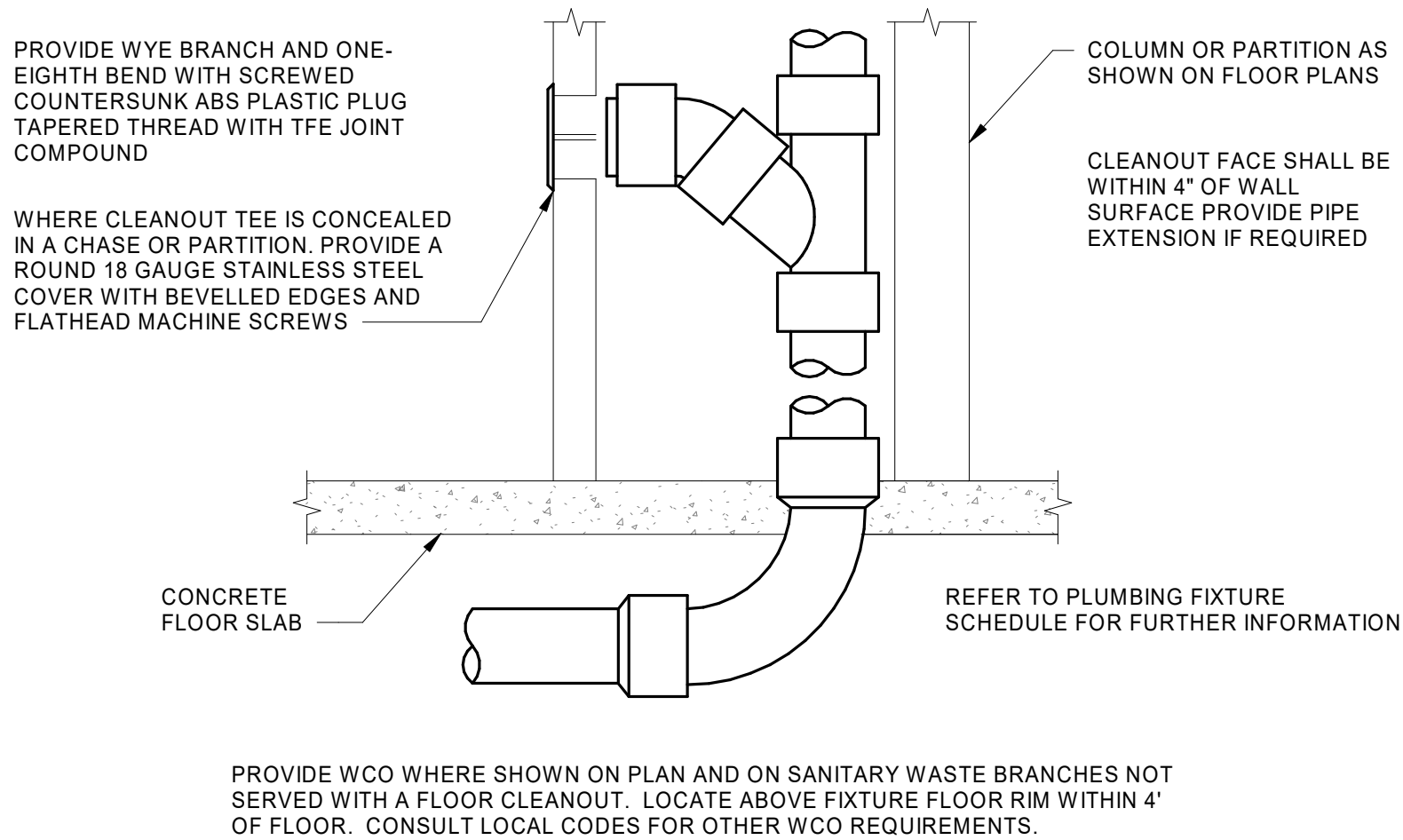
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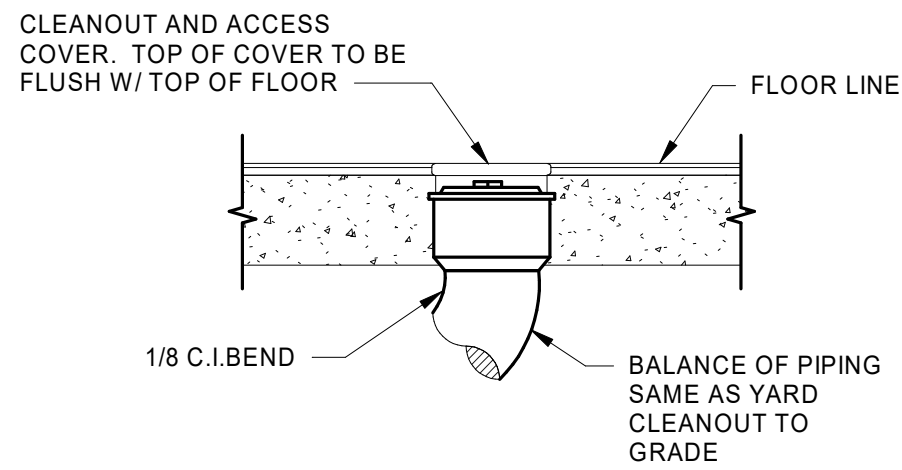


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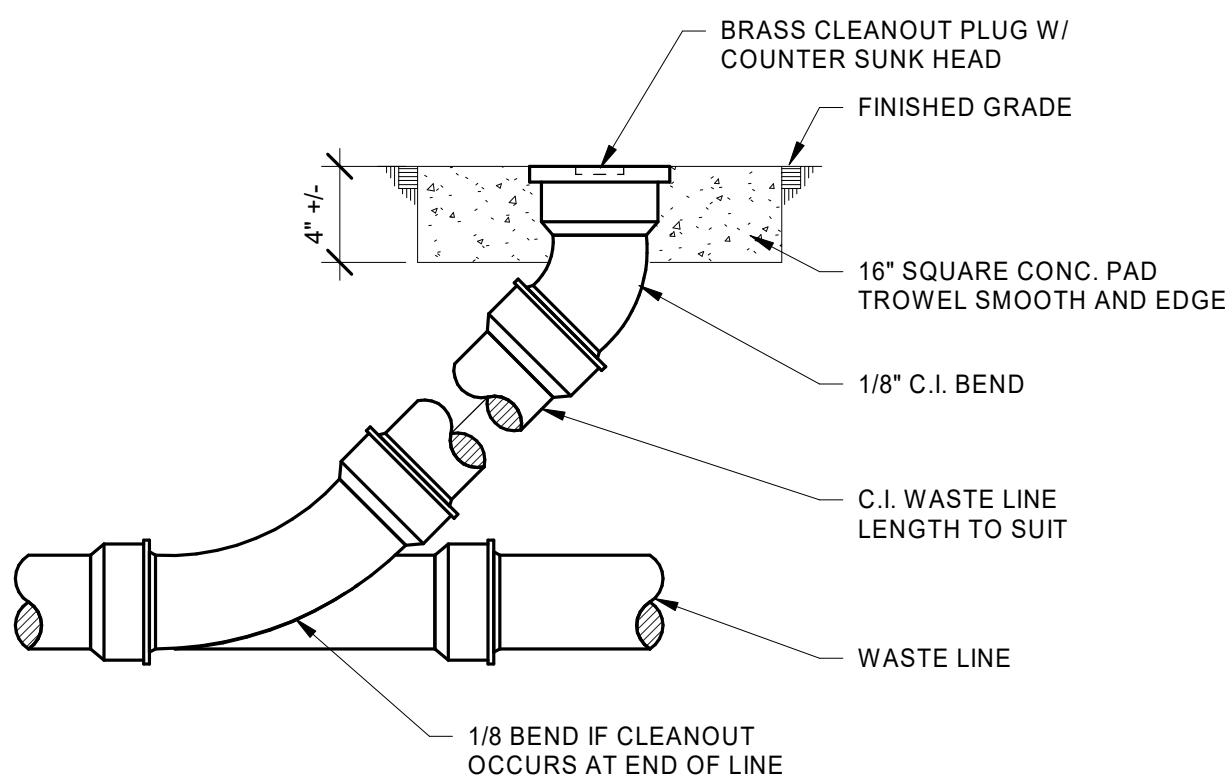
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**E8** WALL CLEANOUT DETAIL  
P601 SCALE: NOT TO SCALE

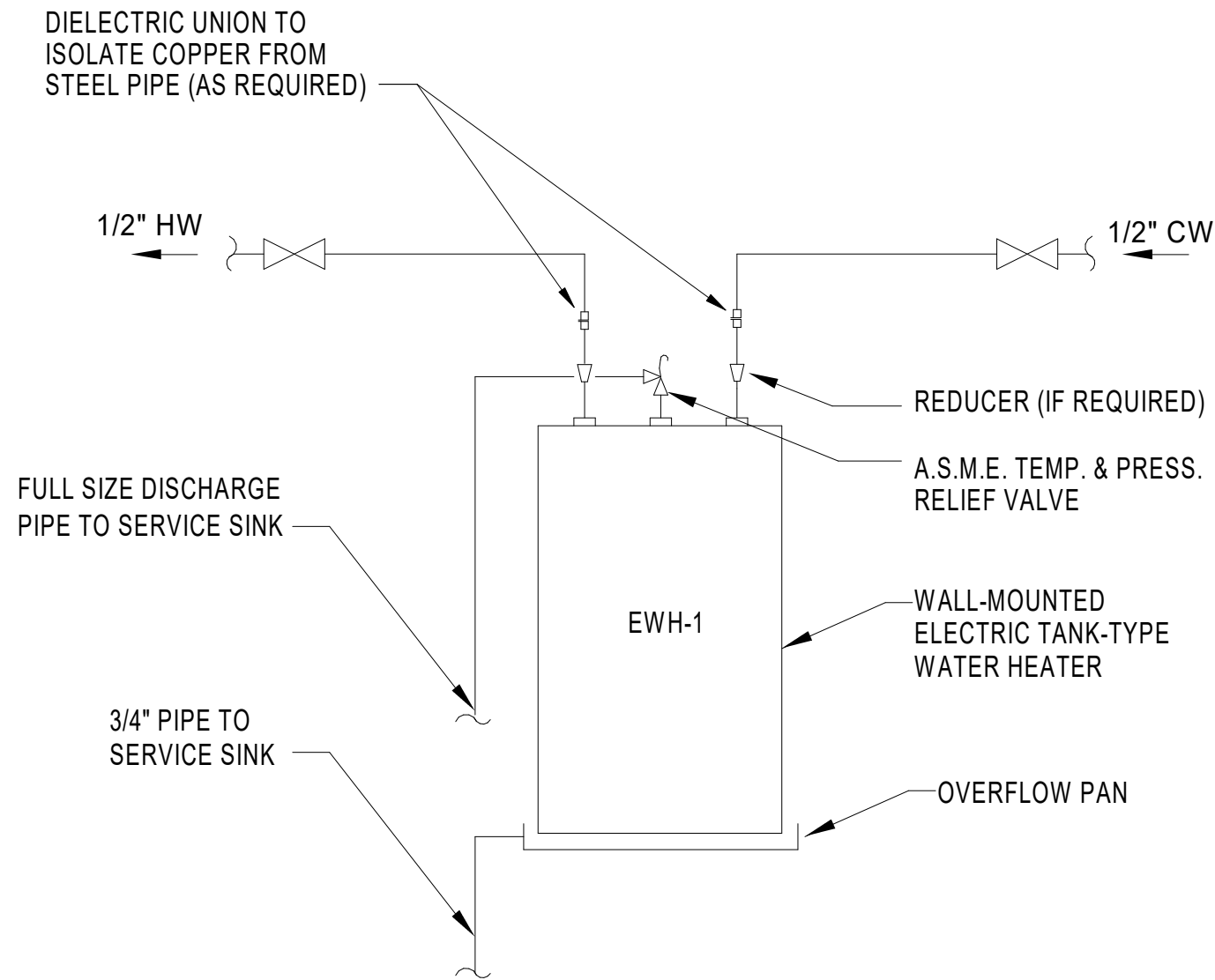


**FLOOR CLEANOUT (FCO)**  
CLEANOUT NOT TO BE LOCATED IN CARPETED AREA

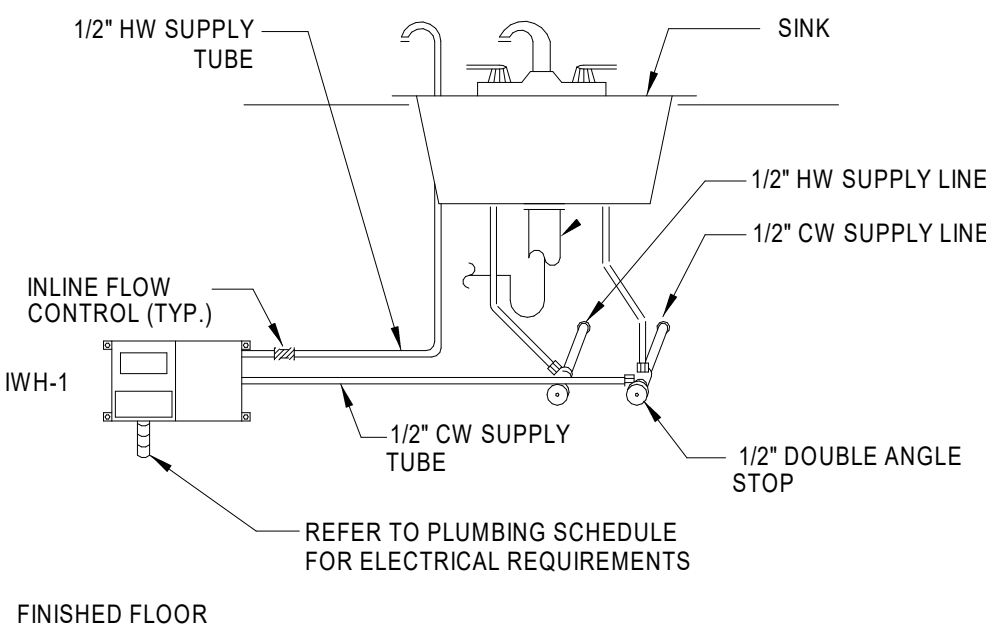


**YARD CLEANOUT TO GRADE (YCO)**

**A8** FLOOR CLEANOUT DETAIL  
P601 SCALE: NOT TO SCALE

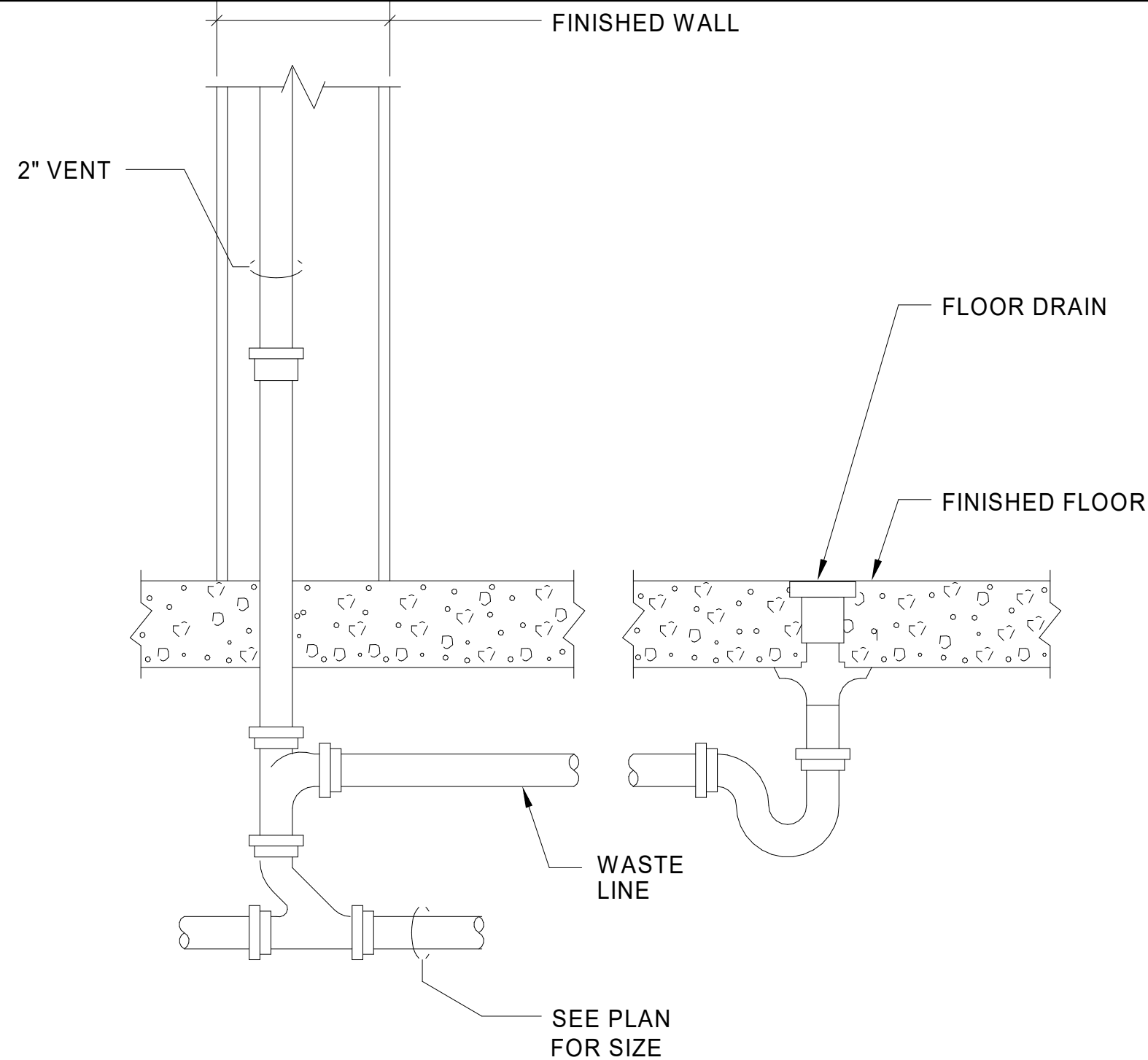


**E5** ELECTRIC WATER HEATER DETAIL  
P601 SCALE: NOT TO SCALE

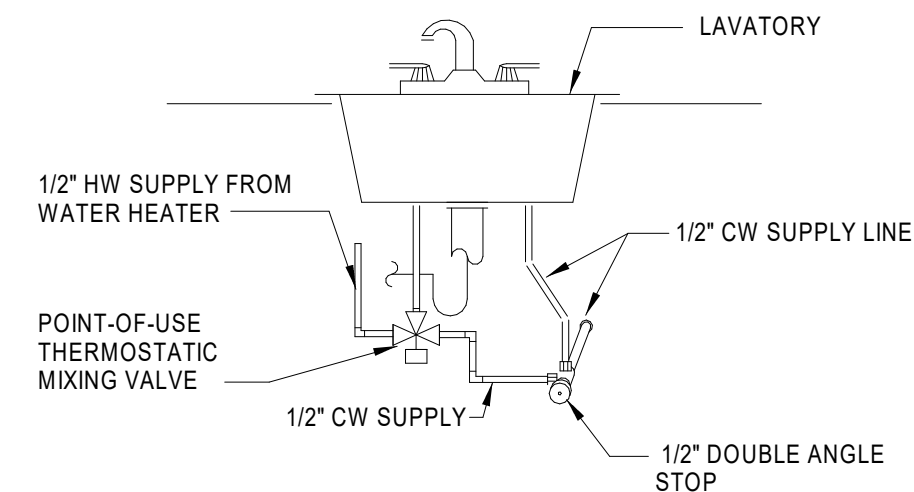


**NOTE:**  
1. DO NOT ENERGIZE UNIT UNTIL WATER HAS BEEN CONNECTED AND FLOW TESTED.

**A5** INSTANTANEOUS WATER HEATER DETAIL  
P601 SCALE: SCALE: NOT TO SCALE



**E3** FLOOR DRAIN DETAIL  
P601 SCALE: NOT TO SCALE



**NOTE:**  
1. SET OUTLET TEMPERATURE AT 95 DEGREES FAHRENHEIT

**C3** POINT-OF-USE THERMOSTATIC MIXING VALVE  
P601 SCALE: NOT TO SCALE

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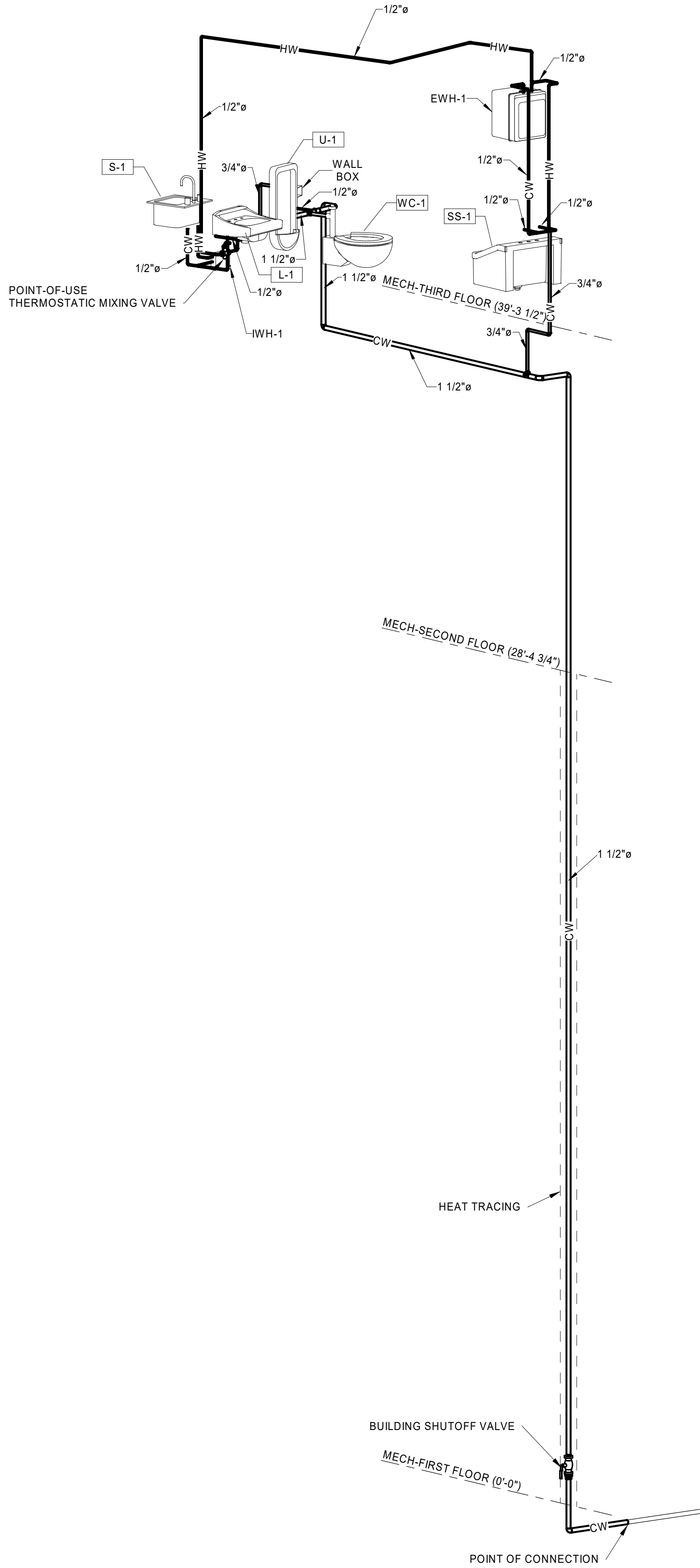
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REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA									
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DETAILS									
RUSSELVILLE AR									
REVIEWED BY	SUBMITTED BY	DO NOT SIGN				APPROVED BY			
		DO NOT SIGN				DO NOT SIGN			
PROJECT ENGINEER		MGR: ENGINEERING							
DESIGNED	AK	ISSUED BY		DATE		JCN	22002872		
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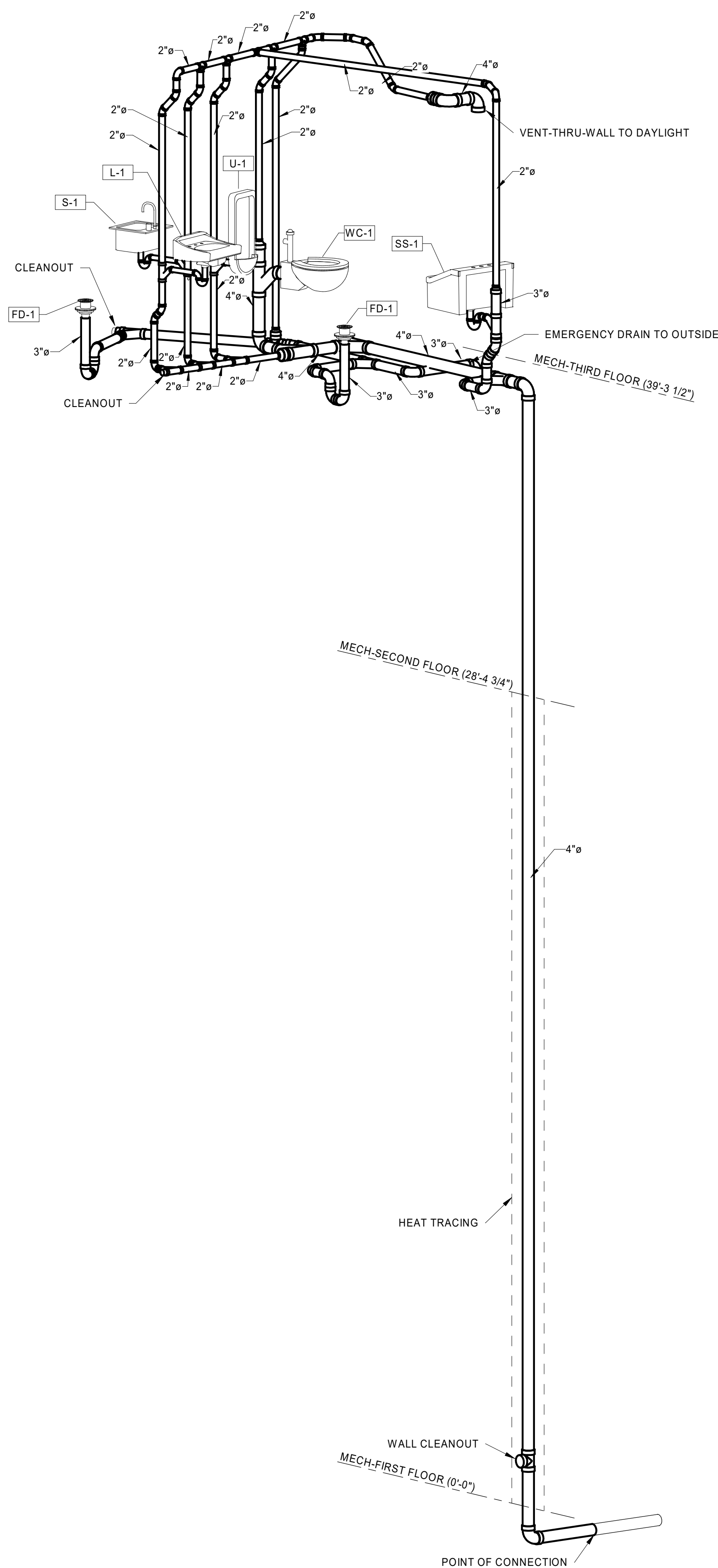
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**A8 DOMESTIC WATER ISOMETRIC VIEW**  
P901 SCALE: NOT TO SCALE



**A5 WASTE AND VENT ISOMETRIC VIEW**  
P901 SCALE: NOT TO SCALE

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## ABBREVIATIONS

3/C	SINGLE CONDUCTOR CABLE	LTG	LIGHTING
A	THREE CONDUCTOR CABLE	LTS	LIGHTS
AC	AMP AMPMETER, AMPERE	LV	LOW VOLTAGE
AC	ALTERNATING CURRENT	MAX	MAXIMUM
A/C	AIR CONDITIONING	MBP	MAINTENANCE BYPASS
AF	AIR FAN	MC	METAL-CLAD CABLE
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
AHU	AIR HANDLING UNIT	MECH	MECHANICAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MFR	MANUFACTURER
AT	AMP TRIP	MGP	MAIN GROUND PLATE
ATS	ALTERNATING TRANSFER SWITCH	MH	MOUNTING HEIGHT, MAN HOLE
AVG	AVERAGE	MIN	MINIMUM
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
BATT	BATTERY, BATTERIES	MPG	MULTIPOINT GROUND PLATE
BC	BARE COPPER	MS	MOTOR STARTER
BKR	BREAKER	MT	MOUNT
BLDG	BUILDING	MTD	MOUNTED
BP	BYPASS	MTG	MOUNTING
C	CONDUIT	MV	MEDIUM VOLTAGE
CAT	CATALOG	(N)	NEW
CKT	CIRCUIT	N	NEUTRAL, NORMAL
CONT	CONTINUOUS, CONTINUED	NC	NORMALLY CLOSED
CRI	COLOR RENDERING INDEX	NO	NORMALLY OPEN
CT	CABLE TRAY	N/A	NOT APPLICABLE
CU	COPPER	NEC	NATIONAL ELECTRICAL CODE
DC	DEPTH, DEEP	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
DB	DUCT BANK	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DE	DIRECT CURRENT	NO	NUMBER
DEPT	DEPARTMENT	NOS	NUMBERS
DIA	DIAMETER	NTS	NOT TO SCALE
DISC	DISCONNECT	OH	OVERHEAD
DISTR	DISTRIBUTION	OCPD	OVERCURRENT PROTECTION DEVICE
DIV	DIVISION	P	POLE, POWER
DS	DISCONNECT SWITCH	PB	PULLBOX
DTL	DETAIL	PEL	POTENTIAL EQUALIZATION LOOP
DWG(S)	DRAWING(S)	PF	POWER FACTOR
(E)	EXISTING	PH	PHASE
EM	EMERGENCY	PVC	POLYVINYL CHLORIDE
EES	EARTH ELECTRODE SYSTEM	QTY	QUANTITY
E/G	ELECTRICAL GENERATOR	(R)	REMOVE
EL / ELEV	ELEVATION	R	RESISTANCE, RATE, RISE
ELEC	ELECTRICAL/ELECTRIC	RCPT	RECEPTACLE
EM	EMERGENCY	RE	RESIDENT ENGINEER
EMT	ELECTRICAL METALLIC TUBING	REQD	REQUIRED
EQPT	EQUIPMENT	RGS	RIGID GALVANIZED STEEL
ETC	ETCETERA	RM	ROOM
(F)	FLEXIBLE CONDUIT	RS	ROOT MEAN SQUARE
FLR	FLOOR	SC	SHORT CIRCUIT
FREQ	FREQUENCY	SCHED	SCHEDULE
FT	FOOT	SEC	SECONDS
GND	GROUND	SECT	SECTION
GA	GAUGE	SHLD	SHIELDED, SHIELD
GALV	GALVANIZED	SHT	SHEET
GEN	GENERATOR	SMGP	SUPPLEMENTAL MAIN GROUND PLATE
GFE	GOVERNMENT FURNISHED EQUIPMENT	SPD	SURGE PROTECTIVE DEVICE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SPQ	SINGLE POINT GROUND PLATE
H	HEIGHT	SS	SQUARE
HACR	HEATING, AIR-CONDITIONING AND REFRIGERATION CIRCUIT BREAKER	SS	STAINLESS STEEL
HD	HEAVY DUTY SAFETY SWITCH	STD	STANDARD
HH	HANDHOLE	SW	SWITCH
HP	HORSEPOWER	TOC	TOP OF CONDUIT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	TBD	TO BE DETERMINED
HZ	HERTZ	TEMP (T)	TEMPORARY
UJ	UNDERGROUND	TYP	TYPICAL
UH	UNIT HEATER	UL	UNDERGROUND
UJ	UNDERWRITERS' LABORATORIES	UL	UNIT HEATER
ID	IDENTIFICATION	UON	UNLESS OTHERWISE NOTED,
IEC	INTERNATIONAL ELECTROTECHNICAL COMMISSION	UPS	UNINTERRUPTIBLE POWER SUPPLY
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	V	VOLTAGE
IESNA	ILLUMINATING ENGINEERS SOCIETY OF NORTH AMERICA	VAC	VOLT-AMPERE
JB	JUNCTION BOX	VAC	VOLTS-ALTERNATING CURRENT
kA	KILO-AMPERES	VAR	VOLT-AMPERE REACTIVE
kCML	1000 CIRCULAR MILS	W	WATT(S), WIRE, WIDTH
kV	KILO-VOLTS	W/	WITH
kVA	KILO-VOLT-AMPERES	W/O	WITHOUT
kVAR	KILO-VOLT-AMPERES REACTIVE	WP	WEATHERPROOF
KW	KILOWATT	XFMR	TRANSFORMER
LED(S)	LIGHT EMITTING DIODE(S)	Y	WYE-CONNECTED
LPS	LIGHTNING PROTECTION SYSTEM	Z	IMPEDANCE
		Δ	DELTA

## GROUNDING NOTES

1. ALL METAL OBJECTS SHALL BE BONDED WITHIN 6'-0" OF DOWN OR HALO CONDUCTORS WITH A CLASS II TINNED COPPER LIGHTNING PROTECTION CONDUCTOR (28R). THIS INCLUDES METALLIC CONDUITS, STRUCTURAL STEEL, CABINETS AND CABLE TRAYS WITHIN 6'-0" OF DOWN CONDUCTORS.
2. ALL MECHANICAL GROUND LUG BONDS SHALL INCLUDE SPRING DISC (BELLEVILLE) WASHERS.
3. METALLIC CONDUITS PENETRATING FACILITY EXTERIOR WALLS SHALL BE BONDED TO EES FOR BELOW GRADE CONDUITS OR TO THE MULTIPOINT SYSTEM FOR ABOVE GRADE CONDUITS WITH A #2 AWG MINIMUM.
4. RIGID STEEL CONDUITS TERMINATING IN HANDHOLES SHALL INCLUDE GROUND BUSHINGS AND SHALL BE GROUNDED WITH A #6 AWG STRANDED BARE COPPER GROUND #4/0 AWG FROM HANDHOLE ELECTRODE OR UFER GROUND STUD PROVIDED WITHIN THE HANDHOLE. METALLIC LIDS SHALL BE BONDED WITH 6 AWG STRANDED BARE COPPER.
5. RGS CONDUITS INCLUDE GROUND BUSHINGS AT ALL J-BOXES, EQUIPMENT ENCLOSURES AND HANDHOLES FOR CONNECTION TO BONDING CONDUCTORS. CONDUIT JOINTS AND FITTINGS SHALL BE LESS THAN 5 MILLIOHMS RESISTANCE MEASURED WITH A 4 TERMINAL MILLIOHM METER.
6. GROUND ELECTRODES SHALL BE 3/4"x10" COPPER CLAD STEEL GROUND RODS. GROUND ELECTRODES SHALL BE SPACED NO CLOSER THAN 10'-0" FROM EACH OTHER.
  - A. GROUND BONDS HAVE A MAXIMUM DC RESISTANCE OF 1 MILLIOHM WHEN MEASURED BETWEEN BONDED COMPONENTS WITH A 4 TERMINAL MILLIOHM METER.
7. CONDUITS TERMINATING AT THE TOP OF EQUIPMENT, ENCLOSURE, OR CABINET SHALL BE USED IN LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC), UL-LISTED, PROVIDE AN EXTERIOR #6 AWG COPPER INSULATED GREEN JUMPER WIRE ALONG EXTERIOR OF CONDUIT. INSTALL UL-LISTED COUPLING AND CONNECTORS AS REQUIRED FOR TRANSITION BETWEEN EMT AND LFMC.

## GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC®) LOCAL REGULATIONS, AND FEDERAL AVIATION ADMINISTRATION (FAA) ORDERS AND SPECIFICATIONS, SEE LIST BELOW.
2. PROVIDE ALL MATERIAL, LABOR AND EQUIPMENT.
3. STRICTLY COMPLY WITH ALL OSHA REGULATIONS AT ALL TIMES. CONTRACTING OFFICERS REPRESENTATIVE (COR) RESERVES THE RIGHT TO STOP THE PROJECT SHOULD AN UNSAFE CONDITION EXIST.
4. IN THE EVENT A DISCREPANCY IS FOUND BETWEEN THESE DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
5. THESE DRAWINGS SHOW EXISTING EQUIPMENT, MATERIALS, WIRING ETC. AND IS BASED UPON AVAILABLE INFORMATION (AS-BUILT DRAWINGS) AND VISUAL OBSERVATIONS OF PORTIONS OF THE ELECTRICAL SYSTEM WHICH COULD BE READILY VIEWED. NO ATTEMPT WAS MADE TO EXPOSE CONCEALED CONSTRUCTION, MAKE QUANTITATIVE MEASUREMENTS, OR DISRUPT FACILITY OPERATIONS.
6. VERIFY EXISTING CONDITIONS BEFORE START OF ANY WORK. IMMEDIATELY NOTIFY RE OF ANY ADVERSE FIELD CONDITIONS.
7. ALL EQUIPMENT DIMENSIONS SHOWN ARE NOMINAL.
8. ALL NEW PANELBOARDS SHALL HAVE A FULL LENGTH CONTINUOUS PIANO-HINGED FRONT COVER, LOCKING DOORS AND KEYED ALIKE, UNLESS OTHERWISE NOTED.
9. CONDUIT TYPES ARE RIGID GALVANIZED STEEL (RGS), POLYVINYL CHLORIDE (PVC) COATED AND RGS-PVC COATED. ALL EXTERIOR ABOVE GRADE CONDUITS SHALL BE RGS. UNDERGROUND AND IN SLAB CONDUITS SHALL BE RGS-PVC COATED, INCLUDING FITTINGS.
10. PVC SCHEDULE 40 CONDUIT SHALL BE USED FOR GROUND CONDUCTORS AND BELOW GRADE CONCRETE ENCASED DUCTBANKS WHERE SPECIFICALLY SHOWN ON THE CONSTRUCTION DRAWINGS. IF PVC CONDUIT IS NOT CONCRETE ENCASED, IT SHALL BE UV RATED SCHEDULE 40.
11. CONDUITS INSTALLED UNDERGROUND SHALL HAVE A MINIMUM CLEARANCE OF 2'-0" BELOW GRADE FROM THE TOP OF CONDUIT.
12. PROVIDE PULLBOX IN ALL CIRCUITS THAT EXCEED TWO 90 DEGREE BENDS (180 DEGREES). COORDINATE PULLBOXES LOCATIONS WITH CONDUIT, LIGHT FIXTURES, DUCTWORK, PIPING, ETC.
13. MINIMUM CONDUIT TRADE SIZE SHALL BE 1/2". MINIMUM POWER CONDUCTOR SIZE SHALL BE #12 AWG. PREWIRED LIGHT WHIPS SMALLER THAN 1/2" ARE ALLOWED.
14. ALL CONDUITS SHALL CONTAIN A GREEN GROUND WIRE SIZED IN ACCORDANCE WITH NEC®. CONDUITS SHALL NOT BE USED AS A GROUNDING CONDUCTOR.
15. PROVIDE GROUNDING BUSHINGS ON ALL CIRCUITS, AT BOTH ENDS AND AT ALL PULL/JUNCTION BOXES IN BETWEEN.
16. EACH CIRCUIT SHALL HAVE SEPARATE, DEDICATED NEUTRAL AND GROUND CONDUCTORS.
17. ALL INSULATED CONDUCTORS SHALL BE COPPER, THWN-2, STRANDED FOR #10 AWG AND LARGER AND SOLID FOR #12 AWG AND SMALLER, UNLESS OTHERWISE NOTED.
18. ALL INSULATED CONDUCTORS SHALL BE PROPERLY AND PERMANENTLY IDENTIFIED AND COLOR CODED AT EACH END, IN EACH PULL BOX AND EVERY 3 FEET WHERE THE CONDUCTOR IS VISIBLE. CONDUCTOR LABELS SHALL BE SHRINK EMBOSSED PER FAA-STD-1217.
19. EQUIPMENT SHALL BE SUPPORTED ON 1-5/8" HOT DIPPED GALVANIZED UNISTRUT.
20. ALL EQUIPMENT INSTALLED SHALL INCLUDE PHENOLIC LABELS IDENTIFYING EQUIPMENT.
21. ALL RECEPTACLES SHALL BE COLOR CODED AS PER STANDARDS, FAA-STD-1217 AND FAA-STD-1391.
22. ALL EXTERIOR RECEPTACLES SHALL BE GFCI PROTECTED AND PROVIDED WITH "WHLIE IN USE" WEATHERPROOF METAL COVER.
23. ALL COVER PLATES FOR RECEPTACLES, SWITCHES SHALL BE BRUSHED STAINLESS STEEL AND LABELED WITH PANEL AND CIRCUIT BREAKER NUMBER.
24. PROVIDE SEISMIC RESTRAINTS ON ALL CONDUIT.
25. PROVIDE IESNA COMPLIANT LED FIXTURES FOR NEWLY INSTALLED FIXTURES.
26. RECESSED/PENDANT/SURFACE MOUNTED LIGHT FIXTURES SHALL HAVE A MINIMUM OF TWO SEISMIC BRACING WIRE SUPPORTS (#12 AWG) PER FIXTURE. FOR PENDANT LIGHT FIXTURES, PROVIDE TRANSVERSE AND LONGITUDINAL BRACING. FOR RECESSED LIGHT FIXTURES, FASTEN TO CEILING GRID WITH SHEET METAL SCREWS ON ALL FOUR SIDES.
27. PROVIDE ALL CONNECTIONS TO MOTORS, HVAC AND PLUMBING EQUIPMENT AND OTHER EQUIPMENT PROVIDED UNDER RESPECTIVE DIVISIONS OF WORK FROM DISCONNECT SWITCH, STARTER, J-BOX, ETC.
28. ALL HARDWARE, INCLUDING CLAMPS, BOLTS, NUTS, WASHERS, STRUTS, ANCHOR BOLTS, ANGLES, ETC. USED TO SUPPORT OR INSTALL ANY EXTERIOR (AND NON-CONDITIONED LOCATIONS) HANDRAIL, EQUIPMENT, PIPE, CONDUIT, BOX OR OTHER DEVICE SHALL BE STAINLESS STEEL AISI 304, OR AISI 316.
29. MAINTAIN MINIMUM HEADROOM CLEARANCE OF 84".
30. ALL CONDUIT, J-BOXES ETC. DEDICATED TO THE FIRE ALARM SYSTEM AND ITS WIRING SHALL BE PAINTED RED.
31. DO NOT CUT OR PENETRATE STRUCTURAL MEMBERS OR REBAR WITHOUT WRITTEN PERMISSION OF STRUCTURAL ENGINEER.

## APPLICABLE CODES & STANDARDS

NFPA 70®	NATIONAL ELECTRICAL CODE®
NFPA 70E	STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE ENVIRONMENT
NFPA 101®	LIFE SAFETY CODE®
NFPA 780	STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS
FAA-STD-019	LIGHTNING AND SURGE PROTECTION, GROUNDING, BONDING AND SHIELDING REQUIREMENTS FOR FACILITIES AND ELECTRONIC EQUIPMENT (LATEST EDITION)
FAA-C-1217	ELECTRICAL WORK, PREMISES WIRING (LATEST EDITION)
FAA-C-1391	INSTALLATION, TERMINATION, SPLICING, AND TRANSIENT/SURGE PROTECTION OF UNDERGROUND ELECTRICAL DISTRIBUTION SYSTEM POWER CABLES (LATEST EDITION)
FAA-JO-3900.64	AIR TRAFFIC ORGANIZATION ELECTRICAL SAFETY PROGRAM (LATEST EDITION)
FAA-JO-3900.67	AIR TRAFFIC ORGANIZATION HAZARDOUS ENERGY CONTROL (LOCKOUT/TAGOUT) PROGRAM (LATEST EDITION)

## DEMOLITION NOTES



1. ALL DEMOLITION WORK AT THIS FACILITY SHALL BE PERFORMED AS TO INCUR MINIMAL INTERRUPTIONS TO EXISTING LOADS, COORDINATED WITH THE FAA AND PERFORMED ONLY DURING SCHEDULED AND APPROVED SHUTDOWNS.
2. PRIOR TO ANY DEMOLITION, TAG ALL CIRCUITS, EQUIPMENT, BOXES, DEVICES, ETC., NOTING EITHER TO REMAIN OR TO BE REMOVED. TAGGING SHALL BE CLOSELY COORDINATED WITH ALL TRADES, SSC AND RE.
3. DEVICES AND/OR CIRCUITS THAT ARE NOTED TO BE REMOVED, SHALL HAVE ALL ASSOCIATED CONDUCTORS, CONDUITS, BOXES AND FITTINGS REMOVED BACK TO SOURCE. ANY CONDUITS WHICH CANNOT BE REMOVED SHALL BE EMPTIED OF CONDUCTORS, CAPPED AND LABELED AS "SPARE."
4. COORDINATE ALL DEMOLITION WORK WITH NEW WORK TO ENSURE EXISTING EQUIPMENT, WIRING, ETC. REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM ARE NOT REMOVED.
5. UNLESS NOTED TO REMAIN, ALL REMOVED MATERIALS AND EQUIPMENT SHALL BE CONSIDERED SCRAP AND PROPERLY DISPOSED OF OFF-SITE AS PER ALL STATE AND LOCAL REQUIREMENTS REGARDING HAZARDOUS MATERIALS.
6. REPAIR AS REQUIRED ALL FINISHED SURFACES OR EQUIPMENT WHICH ARE DAMAGED AS A RESULT OF WORK OF THIS PROJECT TO THEIR ORIGINAL CONDITION AND MATCH EXISTING. ALL REPAIRED SURFACES OR EQUIPMENT SHALL BE TO THE SATISFACTION OF THE FAA AND AT INSTALLER EXPENSE.
7. EQUIPMENT AND MATERIALS REMOVED FOR PROTECTION SHALL BE REPLACED AT THEIR ORIGINAL LOCATIONS. ANY DAMAGED EQUIPMENT OR MATERIALS SHALL BE REPLACED WITH NEW, OF EQUAL DESIGN AND QUALITY, AT NO COST TO THE FAA.
8. CLEAN ALL ITEMS THAT ARE TO BE REUSED.
9. EXISTING CONDUITS MAY BE REUSED IF THEY ARE UNDAMAGED AND COMPLY WITH NEC REGARDING ATTACHMENT, CONDUIT FILL, AND BEND RADIUS. EXISTING CONDUIT(S) CONSIDERED FOR RE-USE SHALL COMPLY WITH SECTION "GROUNDING AND BUSHINGS FOR CONDUIT RACEWAYS" OF FAA SPEC 019 AND THE RACEWAYS' GROUNDING SHALL BE MAINTAINED OR CORRECTED WITH ALL NECESSARY FITTINGS AND CONDUCTORS AS NECESSARY TO COMPLY. OTHERWISE, NEW CONDUIT SHALL BE PROVIDED.
10. REPLACEMENT OF PANELBOARDS AND FEEDER CONDUCTORS SHALL BE IN ACCORDANCE WITH APPROVED IRLM AND TRANSITION PLAN.
11. LOCK-OUT, TAG-OUT (LOTO) SHALL BE IN ACCORDANCE WITH APPROVED IRLM, TRANSITION PLAN AND FAA ORDER 3900.67.

## SCOPE OF WORK

1	<p><b>LIGHTING IMPROVEMENTS</b></p> <ul style="list-style-type: none"> <li>A. REPLACE (E) INTERIOR AND EXTERIOR LIGHT FIXTURES IN TOWER, E/G SHELTER AND PUMP HOUSE WITH LED-TYPE FIXTURES.</li> <li>B. PROVIDE (N):             <ul style="list-style-type: none"> <li>a. BUILDING-MOUNTED LED SITE LIGHTING</li> </ul> </li> </ul>
2	<p><b>POWER IMPROVEMENTS</b></p> <ul style="list-style-type: none"> <li>A. DEMOLISH (5) (E) PANELBOARDS, OCPDs, FEEDERS, SPDs AND GROUNDING:             <ul style="list-style-type: none"> <li>a. "CPD" AND "EP-1" (TOWER FIRST FLOOR)</li> <li>b. "CP-23" (TOWER SECOND FLOOR)</li> <li>c. "LC" (TOWER THIRD FLOOR)</li> <li>d. "PH" (PUMP HOUSE)</li> </ul> </li> <li>B. DEMOLISH:             <ul style="list-style-type: none"> <li>a. (E) FEEDER CONNECTIONS SERVING ALL (E) MECHANICAL EQUIPMENT</li> <li>b. (E) ABANDONED CABLE TRAY AND CABLING IN CEILING SPACE OF TOWER FIRST FLOOR</li> </ul> </li> </ul> <hr/> <ul style="list-style-type: none"> <li>C. PROVIDE (3) (N) PANELBOARDS, OCPDs, FEEDERS AND GROUNDING:             <ul style="list-style-type: none"> <li>a. "UPSRD2" AND "EP-2" (TOWER FIRST FLOOR)</li> <li>b. "PH" (PUMP HOUSE)</li> </ul> </li> <li>D. PROVIDE (N) BRANCH CIRCUITING AT TOWER FOR:             <ul style="list-style-type: none"> <li>a. OFFICE, DAY ROOM AND RESTROOM</li> <li>b. CONVENIENCE RECEPTACLES (TOWER FIRST FLOOR)</li> </ul> </li> <li>E. REPLACE (2) (E) COVER PANELS WITH FULLY CONTINUOUS "PIANO" HINGED, DEPENDANT, FRONT PANEL ASSEMBLY, AT (E) PANELBOARDS:             <ul style="list-style-type: none"> <li>a. "MDP" (TOWER FIRST FLOOR)</li> <li>b. "CP-32" (THIRD FLOOR)</li> </ul> </li> <li>F. PROVIDE PANELBOARD, FEEDER CIRCUIT BREAKER AND (10) TEMP FEEDER CONNECTIONS FOR TEMP MECHANICAL EQUIPMENT.</li> <li>G. RELOCATE TO INTERIOR, ANY (E) EXTERIOR BUILDING-MOUNTED BOXES AND/OR RACEWAYS TO ACCOMMODATE (N) TOWER SIDING. RELOCATE AS REQUIRED (E) BUILDING MOUNTED BOXES AND CONDUITS SERVING SIGNALING EQUIPMENT TO ACCOMMODATE (N) EXTERIOR STAIRWAY. PROTECT-IN- PLACE (E) LPS DOWN CONDUCTORS.</li> </ul>
3	<p><b>GROUNDING AND BONDING IMPROVEMENTS</b></p> <ul style="list-style-type: none"> <li>A. PROVIDE GROUNDING AND BONDING PROVISIONS AT:             <ul style="list-style-type: none"> <li>a. (E) PANELBOARDS - MDP, LP-31 AND CP-32</li> <li>b. (N) PANELBOARDS - UPSRD2, EP-2 AND PH</li> <li>c. (N) ARCHITECTURAL METAL DOORS, OVERHANGS AND ROLL-DOWN SHUTTERS</li> <li>d. AS REQUIRED AT SECOND FLOOR, (N) IN-KIND GROUNDING AND BONDING CONNECTIONS OF ANY (E) CONNECTIONS THAT ARE ALTERED BY STRUCTURAL WORK OF THIS PROJECT</li> </ul> </li> <li>B. PROVIDE AT (E) PERIMETER FENCE, VEHICLE AND PERSONNEL GATES:             <ul style="list-style-type: none"> <li>a. UNDERGROUND CONDUITS FROM TOWER TO (N) PEDESTAL AT GATE</li> <li>b. GROUNDING AND BONDING CONNECTIONS FOR (N) FENCE FABRIC TO (E) FENCE POSTS AND UG GROUNDING SYSTEM</li> </ul> </li> </ul>

## SYMBOLS

## SECURITY

	PTZ (PAN, TILT, ZOOM) CCTV SECURITY CAMERA EXTERIOR SURFACE MOUNTED
	DOOR POSITION SWITCH, OVERHEAD DOOR SURFACE MOUNTED.

## SYMBOLS

## DEMOLITION






 HASH MARKS DENOTE ITEMS TO BE REMOVED OR DEMOLISHED

## SINGLE LINE





The diagram illustrates a low voltage, general purpose dry-type transformer (T1) with a 75 kVA rating and a 480 V-208/120 V output. The transformer is connected to a circuit containing several protective and control devices. The circuit includes a non-fusible disconnect switch (N.C. 208/120V), a fusible disconnect switch (F-MFR), a circuit breaker (400 AF, 400 AT), a surge protective device (SPD), an emergency generator (EG), a ground symbol, and a panelboard.

Symbol	Description
T1	LOW VOLTAGE, GENERAL PURPOSE DRY-TYPE TRANSFORMER
(M)	CURRENT TRANSFORMER AND METER
N.C. 208/120V	NON-FUSIBLE DISCONNECT SWITCH
F-MFR	FUSIBLE DISCONNECT SWITCH
400 AF, 400 AT	CIRCUIT BREAKER
SPD	SURGE PROTECTIVE DEVICE
EG	EMERGENCY GENERATOR
Ground symbol	GROUND
Panelboard symbol	PANELBOARD

## GROUNDING

	BARE COPPER CONDUCTOR, SIZE PER PLAN
	AIR TERMINAL
	EXOTHERMIC WELD CONNECTION
	3/4"X10' COPPER CLAD GROUND ROD WITH TEST WELL
	3/4"X10' COPPER CLAD GROUND ROD












## LIGHTING

	WALL MOUNTED PHOTOLUMINESCENT SINGLE SIDED EXIT SIGN
	CEILING MOUNTED PHOTOLUMINESCENT SINGLE SIDED EXIT SIGN
	BATTERY POWERED EMERGENCY LIGHT
	COMBINED BATTERY POWERED EMERGENCY LIGHT AND ILLUMINATED EXIT SIGN

## POWER

	MECHANICAL EQUIPMENT TAG
	CONDUIT/CABLE TURNING DOWN
	CONDUIT/CABLE TURNING UP
	EXPOSED CONDUIT RUN
	UNDERGROUND CONDUIT
	LIQUIDTIGHT FLEXIBLE CONDUIT, 6'-0" MAX LENGTH
	HOME RUN TO INDICATED PANELBOARD & CKT# POWER: RGSC W/ 2#10 & 1#10 GND (UON) LIGHTING: EMT W/ 2#12 & 1#10 GND (UON) <u>HASH MARKS INDICATE:</u> HOT      SHORT TICK MARK NEUTRAL      SHORT TICK MARK GROUND      LONG TICK MARK
	NON-FUSED DISCONNECT SWITCH, SIZE AS INDICATED ON PLANS
	FUSED DISCONNECT SWITCH, SIZE AS INDICATED ON PLANS
	COMBINATION FUSED DISCONNECT SWITCH/STARTER
	INVERTER
	HP RATED SWITCH
	DUPLEX RECEPTACLE
	QUAD RECEPTACLE

LIGHTING
----------

	LIGHTING FIXTURE TAG "F1" FIXTURE ID, "100" FIXTURE WATTAGE
	1' X 4' LED LIGHT FIXTURE, TYPE AS SPECIFIED ON PLANS
	2' X 4' LED LIGHT FIXTURE, TYPE AS SPECIFIED ON PLANS
	2' X 2' LED LIGHT FIXTURE, TYPE AS SPECIFIED ON PLANS
	EXTERIOR LIGHT WALL PACK, TYPE AS SPECIFIED ON PLANS
	EXTERIOR STANCHION MOUNTED LIGHT, TYPE AS SPECIFIED ON PLANS
	SPOTLIGHT FIXTURE, TYPE AS SPECIFIED ON PLANS
	STRIP LIGHT FIXTURE, TYPE AS SPECIFIED ON PLANS
	LED CANOPY LIGHT FIXTURE, TYPE AS SPECIFIED ON THE PLANS
	SURFACE MOUNTED SWITCH, +48" AFF
	FLUSH MOUNTED SWITCH, +48" AFF
3	<u>LIGHT SWITCH SUBSCRIPT:</u> 3-WAY LIGHT SWITCH
a.b	LETTERS INDICATE LIGHT CONTROLLED
D	DIMMABLE SWITCH

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PARSONS

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FAA

T4

SAFETY

MANAGE

INTEGRATE

IMPROVE

TECHNOLOGY

TRAINING

OPERATIONS

RESEARCH

ANALYSIS

DESIGN

CONSTRUCTION

MAINTENANCE

SUPPORT

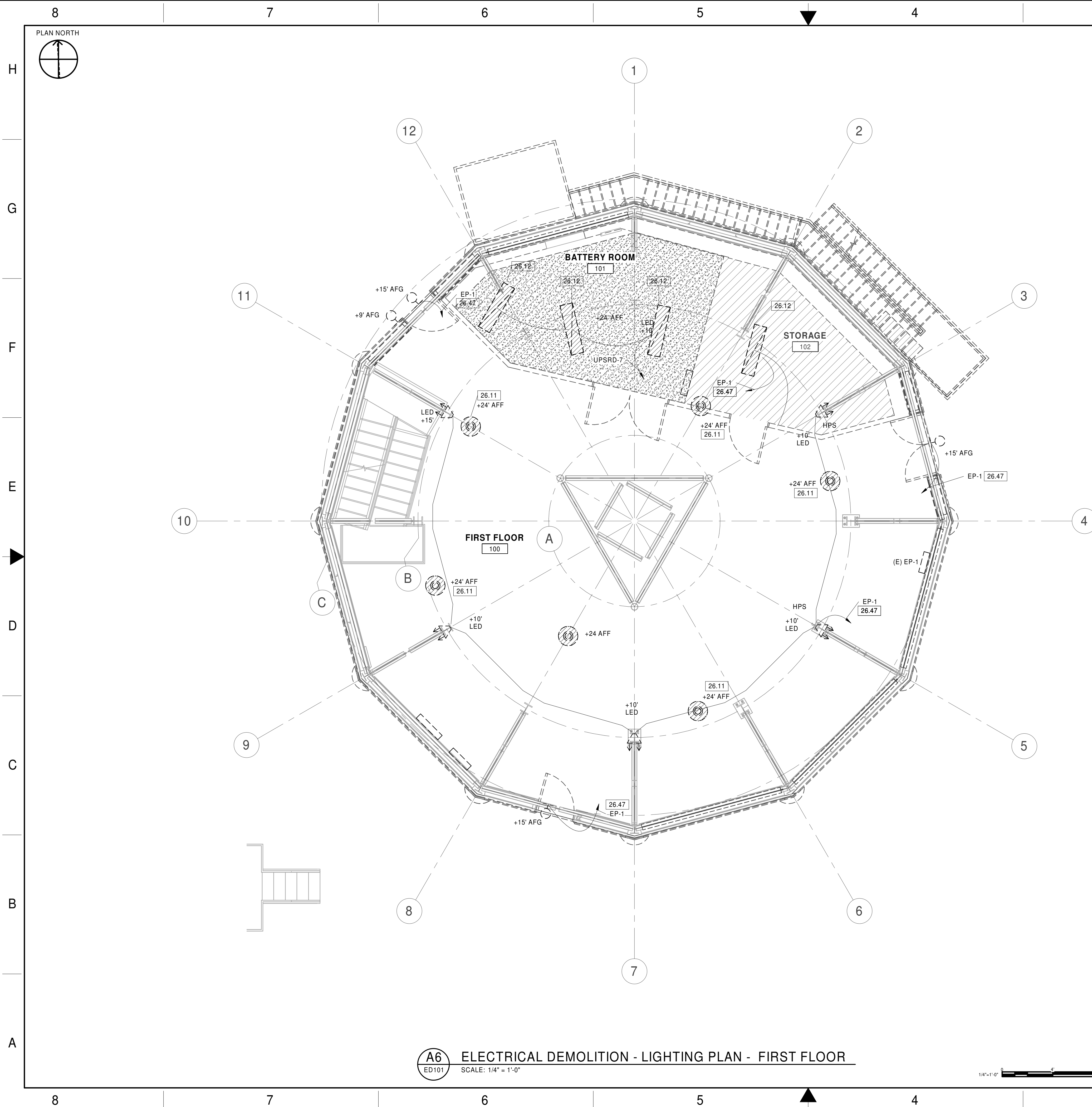
SERVICE

CONTRACT

REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APV
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
ATO - TECHNICAL OPERATIONS			CENTRAL SERVICE AREA		
ARSR					
LONG RANGE RADAR SUSTAINMENT PROJECT LEGEND, SYMBOLS, NOTES AND ABBREVIATIONS					
RUSSELVILLE			AR		
REVIEWED BY	SUBMITTED BY		APPROVED BY		
	PROJECT ENGINEER		MGR: ENGINEERING		
	DESIGNED MM	ISSUED BY	DATE	JCN	22002872
	DRAWN RD	ENGINEERING SERVICES			
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## GENERAL NOTES

1. SEE DRAWING E001 FOR DEMOLITION NOTES.
2. SEE DRAWING E001 FOR LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS.
3. AN ATTEMPT HAS BEEN MADE TO INDICATE ALL EXISTING LIGHTING FIXTURES, LOCAL CONTROLLERS AND CIRCUITING. VERIFY CIRCUITING AND ALL QUANTITIES AND LOCATIONS IN THE FIELD PRIOR TO BID.
4. ALL NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE SAME CIRCUIT AS BEFORE REPLACEMENT AND SWITCHED AS EXISTING, UNLESS OTHERWISE NOTED.
5. UNLESS OTHERWISE NOTED, ALL LIGHTING CIRCUITS ON THIS SHEET CONNECT TO PANEL EP-21, SECOND LEVEL.

DEMOLITION KEYNOTES:

26.11	DE-ENERGIZE AND REMOVE EXISTING FIXTURE. REMOVE ALL CONDUCTORS AND CONDUITS BACK TO SOURCE.
26.12	DE-ENERGIZE, REMOVE AND REPLACE EXISTING FIXTURE.
26.47	CONFIRM CIRCUIT NUMBER IN FIELD.

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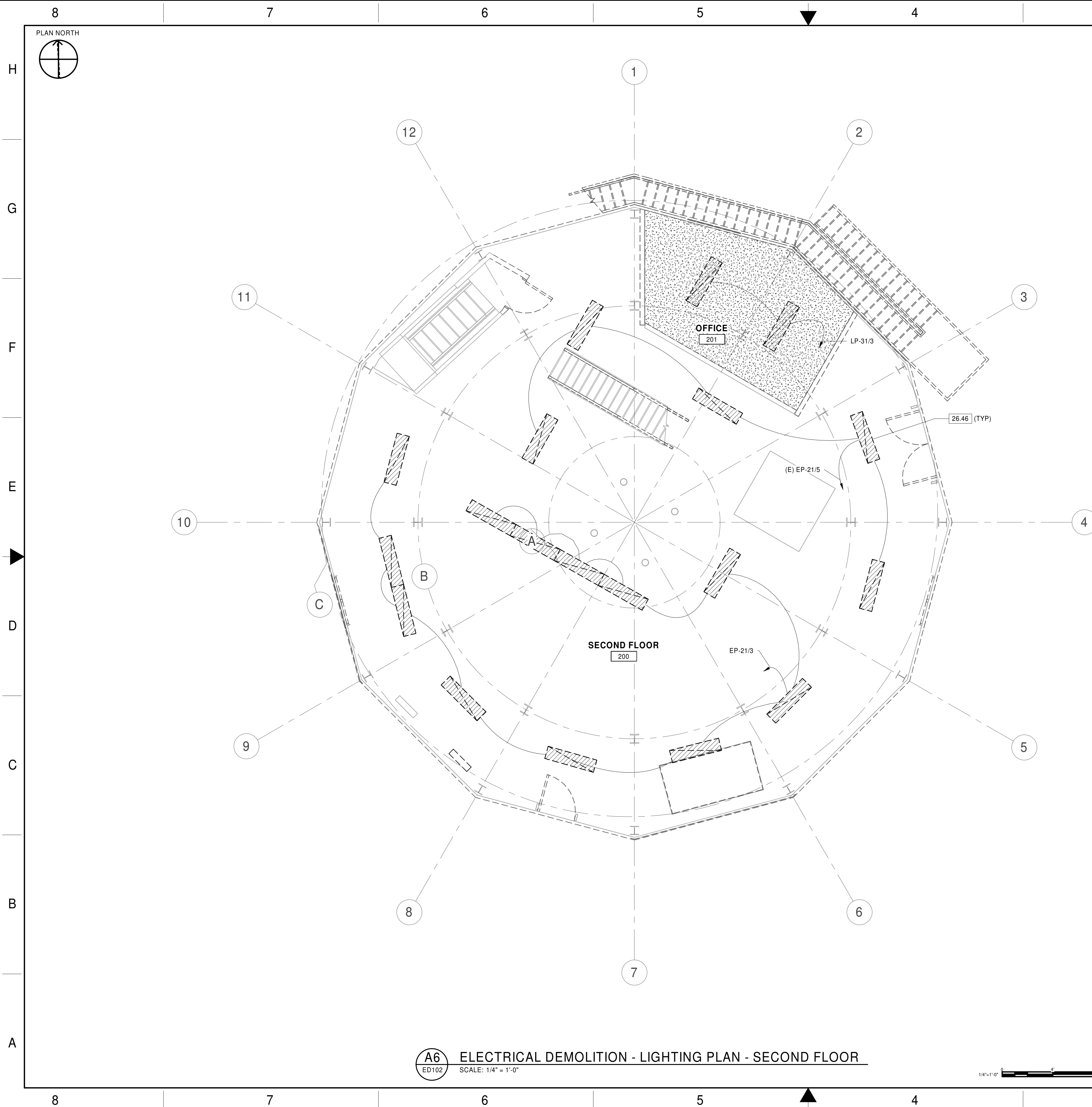
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## GENERAL NOTES

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DEMOLITION NOTES:

26.46	DISCONNECT AND REMOVE (E) LIGHT FIXTURES AS SHOWN. REMOVE ALL ASSOCIATED LIGHTING CONTROLS AND CONDUCTORS BACK TO SOURCE. REFER TO PANELBOARD SCHEDULE FOR CIRCUIT NUMBER.
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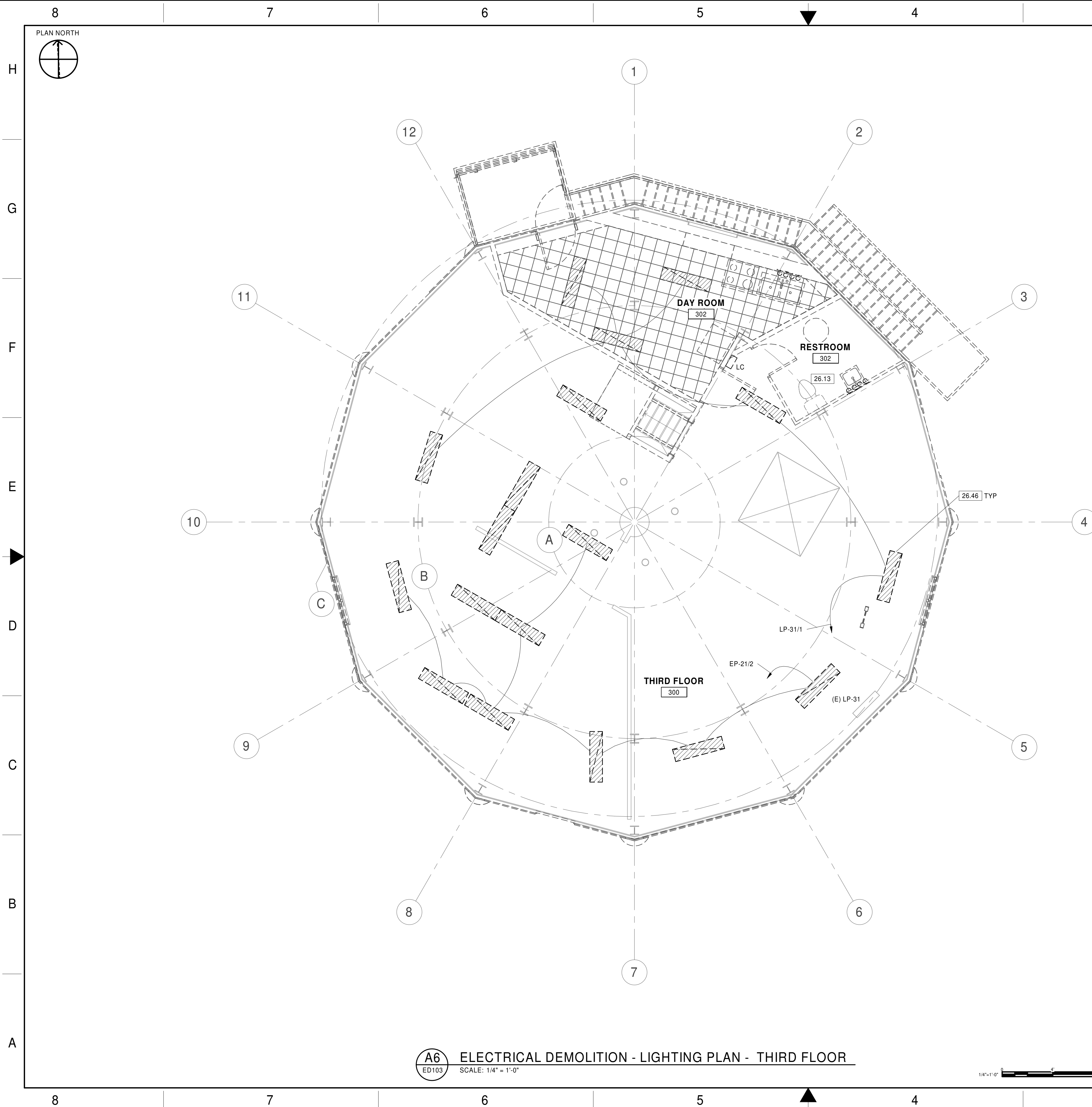
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## GENERAL NOTES

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DEMOLITION NOTES:

26.13	DE-ENERGIZE AND REMOVE BACK TO SOURCE ALL EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS. REMOVE ALL EXISTING SURFACE-MOUNTED RACEWAYS, OUTLETS, AND RECEPTACLES WHERE OCCURRING.
26.46	DISCONNECT AND REMOVE (E) LIGHT FIXTURES AS SHOWN. REMOVE ALL ASSOCIATED LIGHTING CONTROLS AND CONDUCTORS BACK TO SOURCE. REFER TO PANELBOARD SCHEDULE FOR CIRCUIT NUMBER.

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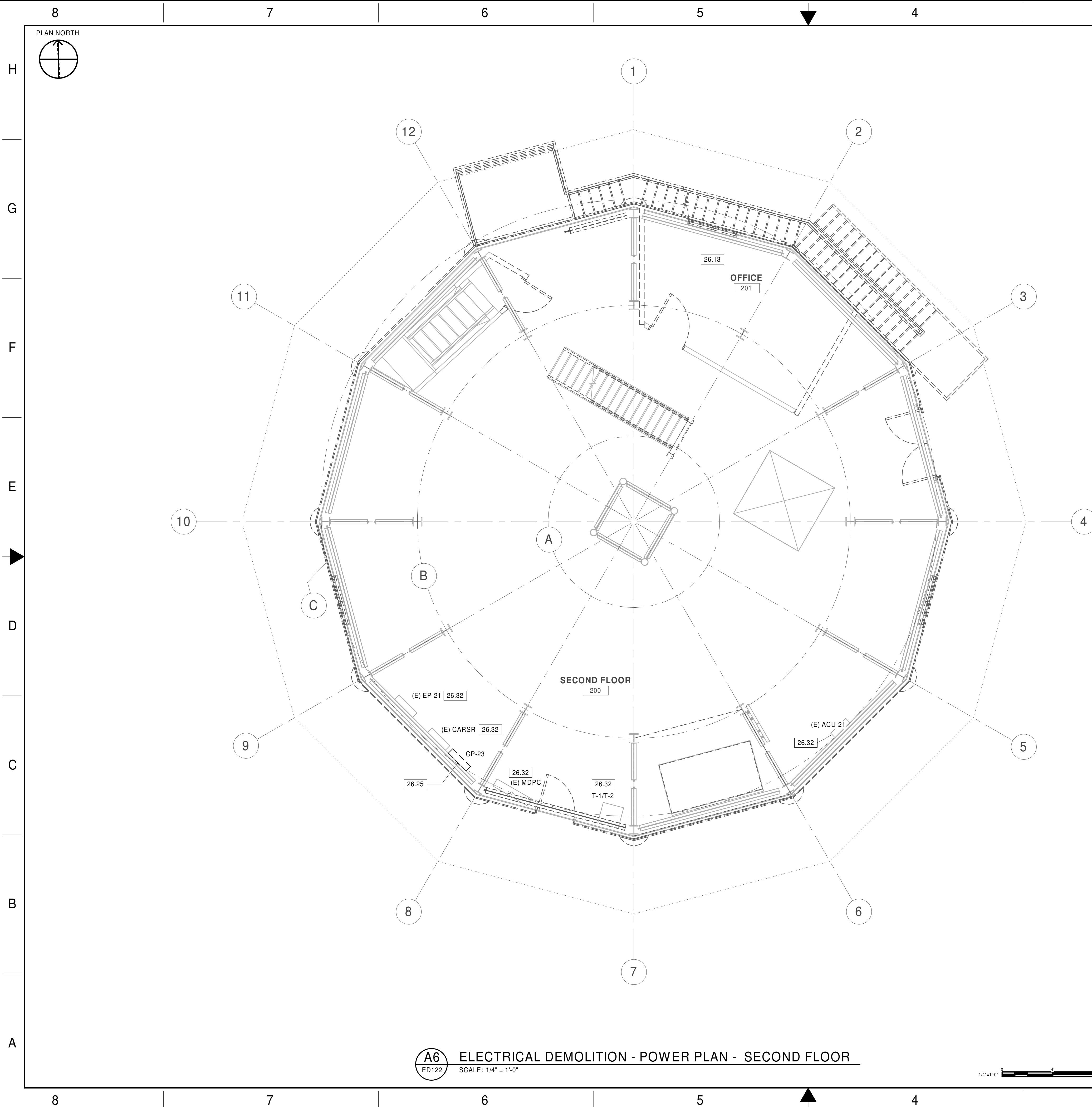












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DEMOLITION NOTES:

26.13	DE-ENERGIZE AND REMOVE BACK TO SOURCE ALL EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS. REMOVE ALL EXISTING SURFACE-MOUNTED RACEWAYS, OUTLETS, AND RECEPTACLES WHERE OCCURRING.
26.25	DEMOLISH (E) ESSENTIAL PANELBOARD, CIRCUIT BREAKERS AND FEEDER IN ITS ENTIRETY. RETURN PANELBOARD AND CPDps TO FAA. DEMOLISH (E) GROUND CONDUCTOR BACK TO (E) GROUND PLATE. DEMOLISH ALL ASSOCIATED SUPPORT CHANNEL AND ATTACHMENTS.
26.32	PROTECT IN PLACE (E) EQUIPMENT.

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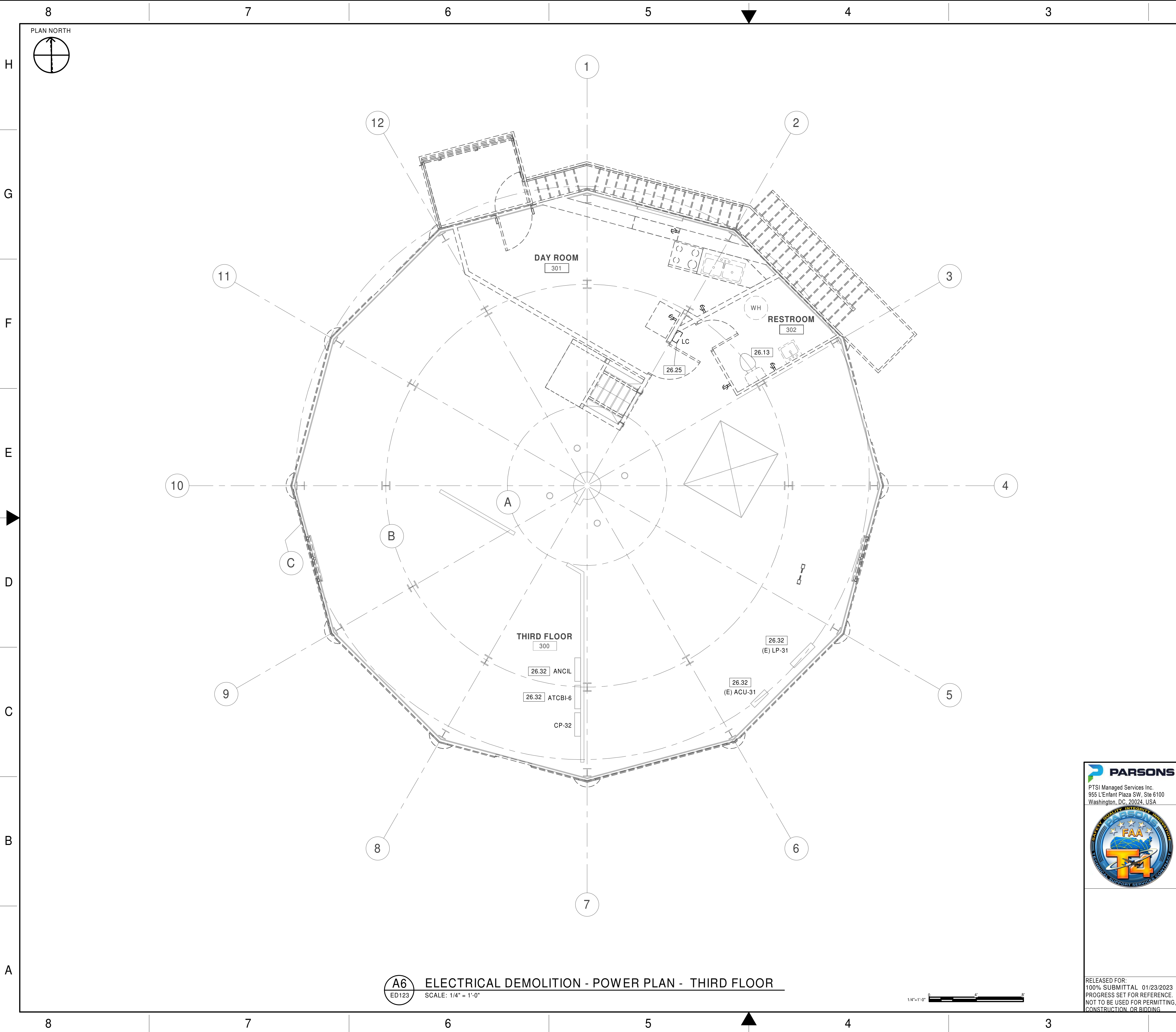
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## GENERAL NOTES

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- SEE DRAWING E001 FOR LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS.
- AN ATTEMPT HAS BEEN MADE TO INDICATE ALL EXISTING RECEPTACLES AND CIRCUITING. VERIFY CIRCUITING AND ALL QUANTITIES AND LOCATIONS IN THE FIELD PRIOR TO BID.

## DEMOLITION NOTES:

26.13	DE-ENERGIZE AND REMOVE BACK TO SOURCE ALL EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS. REMOVE ALL EXISTING SURFACE-MOUNTED RACEWAYS, OUTLETS, AND RECEPTACLES WHERE OCCURRING.
26.25	DEMOLISH (E) ESSENTIAL PANELBOARD, CIRCUIT BREAKERS AND FEEDER IN ITS ENTIRETY. RETURN PANELBOARD AND OCPDs TO FAA. DEMOLISH (E) GROUND CONDUCTOR BACK TO (E) GROUND PLATE. DEMOLISH ALL ASSOCIATED SUPPORT CHANNEL AND ATTACHMENTS.
26.32	PROTECT IN PLACE (E) EQUIPMENT.

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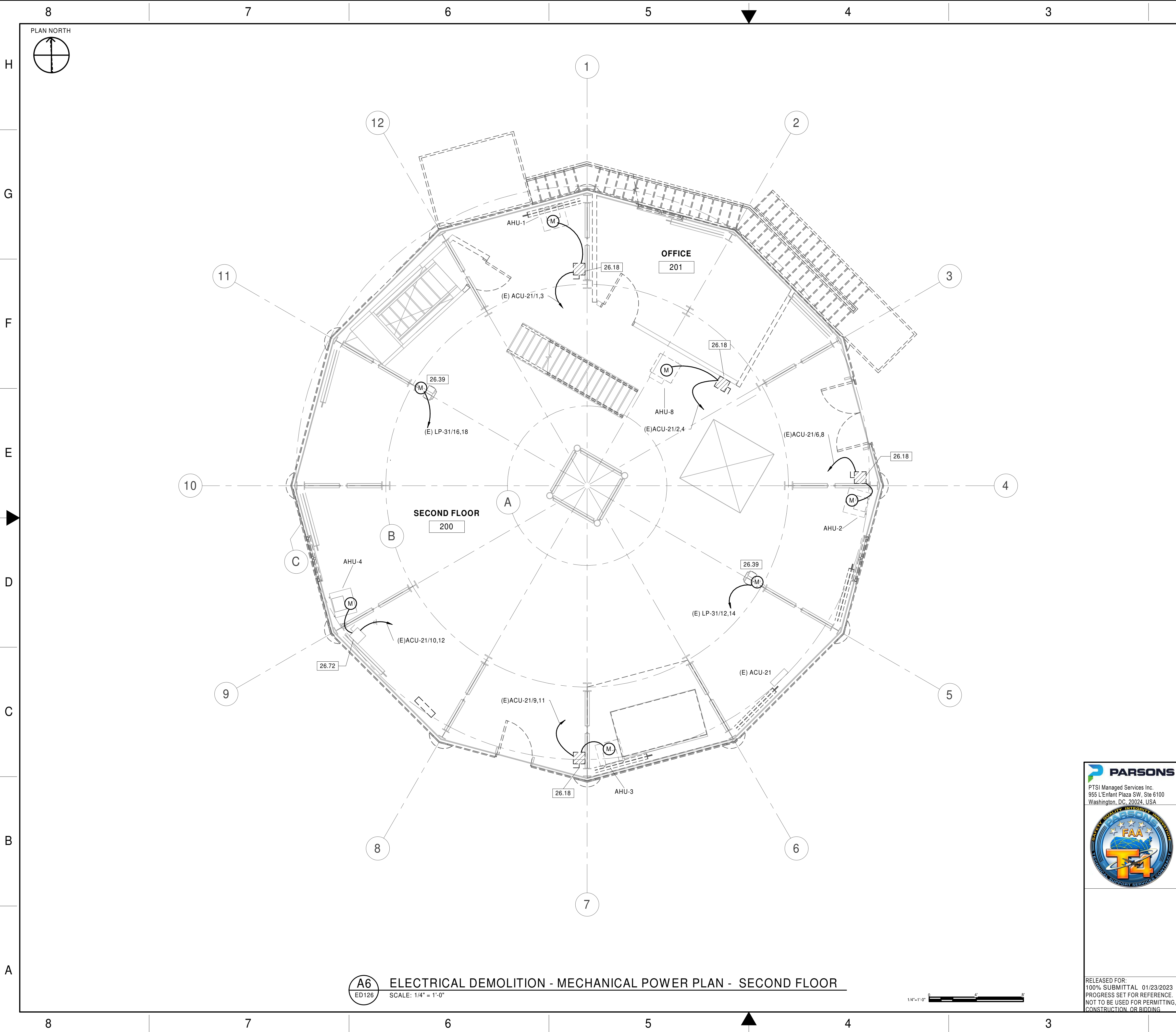
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ARSR LONG RANGE RADAR SUSTAINMENT PROJECT ELECTRICAL DEMOLITION - POWER PLAN - THIRD FLOOR									
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## GENERAL NOTES

1. SEE DRAWING E001 FOR DEMOLITION NOTES.
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3. AN ATTEMPT HAS BEEN MADE TO INDICATE ALL EXISTING RECEPTACLES AND CIRCUITING. VERIFY CIRCUITING AND ALL QUANTITIES AND LOCATIONS IN THE FIELD PRIOR TO BID.

## DEMOLITION NOTES:

26.18	DE-ENERGIZE AND DEMOLISH EXISTING DISCONNECT SWITCH. REMOVE CONDUCTORS BACK TO SOURCE. DEMOLISH (E) GROUND CONDUCTOR BACK TO (E) GROUND PLATE. DEMOLISH ALL ASSOCIATED SUPPORT CHANNEL AND ATTACHMENTS.
26.39	DEMOLISH (E) CONNECTION TO (E) CEILING-MOUNTED SPACE HEATER. REMOVE CONDUCTORS BACK TO SOURCE.
26.72	(E) CONNECTION TO REMAIN IN PLACE.

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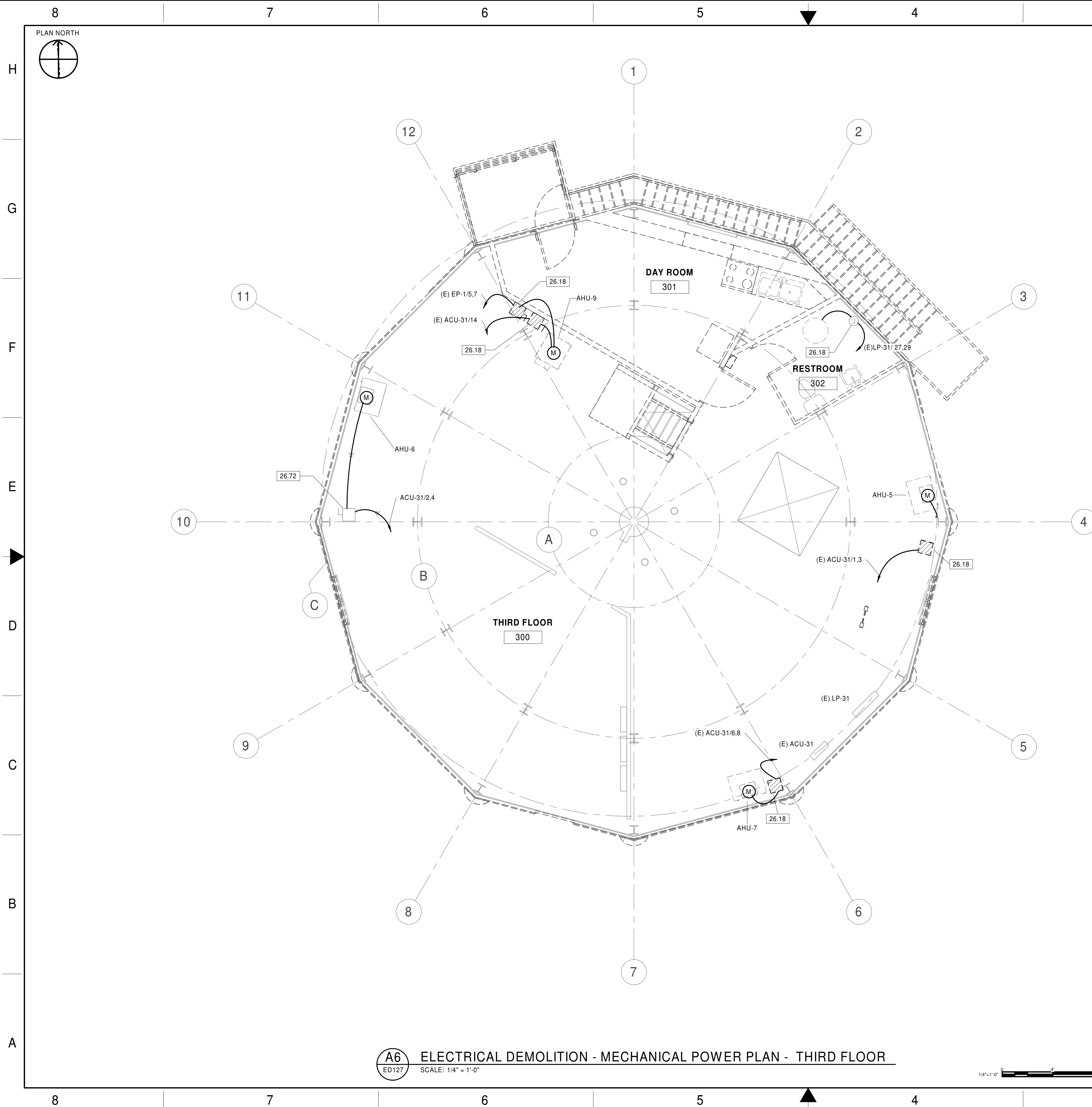


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DEMOLITION NOTES:

26.18	DE-ENERGIZE AND DEMOLISH EXISTING DISCONNECT SWITCH. REMOVE CONDUCTORS BACK TO SOURCE. DEMOLISH (E) GROUND CONDUCTOR BACK TO (E) GROUND PLATE. DEMOLISH ALL ASSOCIATED SUPPORT CHANNEL AND ATTACHMENTS.
26.72	(E) CONNECTION TO REMAIN IN PLACE.

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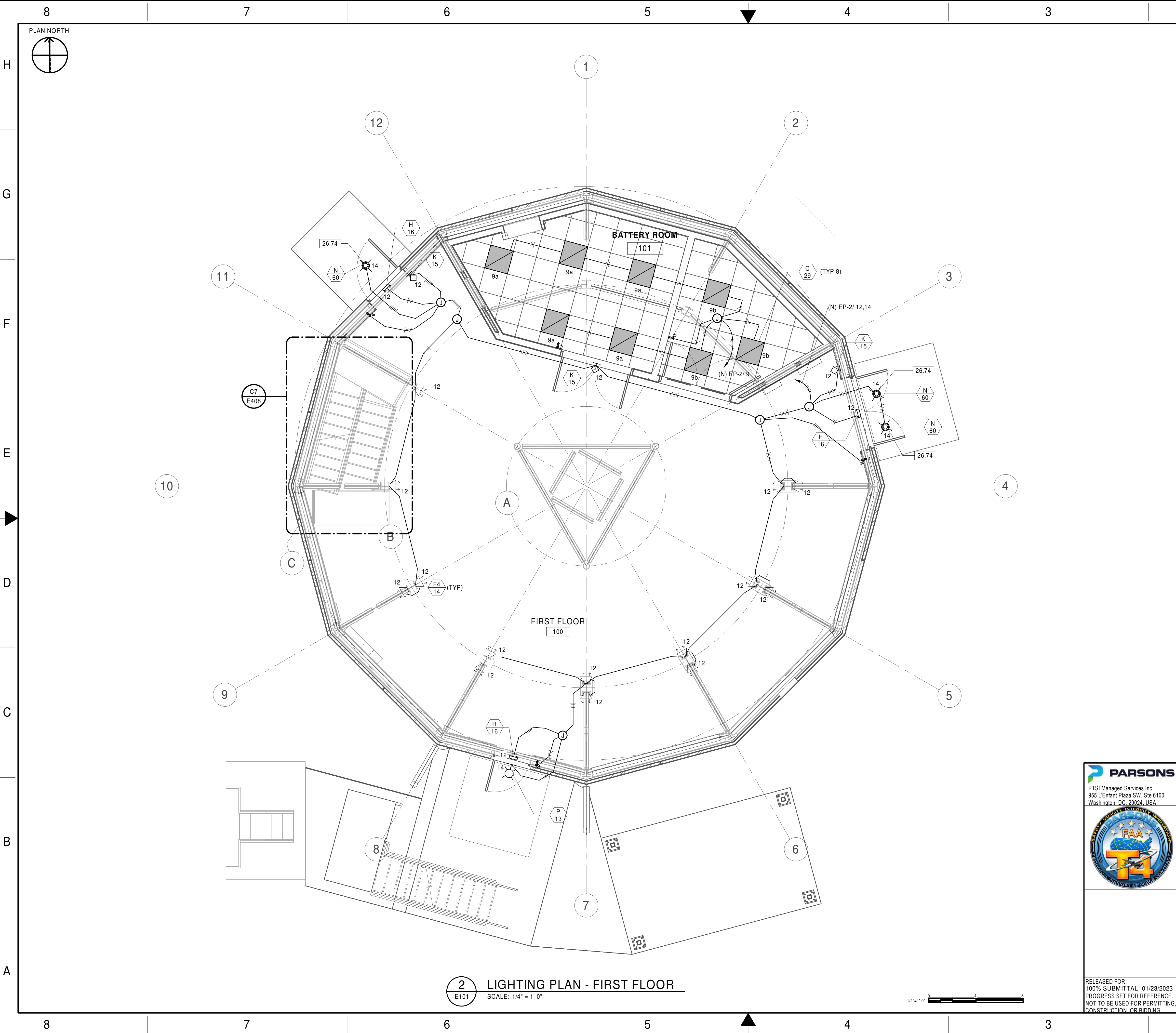
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## GENERAL NOTES

1. SEE DRAWING E001 FOR LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION & ELEVATION OF ALL LIGHTING FIXTURES AND DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
3. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY ACCESSORIES AND MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
4. INTERCEPT AND EXTEND ALL EXISTING INTERIOR LIGHTING FIXTURES/CONTROL CIRCUITS THAT ARE EXISTING TO REMAIN, AND CONNECT TO NEW PANEL LOCATIONS.
5. WHERE LIGHT FIXTURES ARE SHOWN TO BE CONNECTED TO AN EXISTING CIRCUIT, COORDINATE WITH FIELD CONDITIONS AND PROVIDE ANY NECESSARY CONDUIT MODIFICATIONS. DO NOT ASSUME ALL EXISTING CONDUIT MAY BE REUSED AND NEW CONDUIT IS NOT REQUIRED.
6. PROVIDE A CONTINUOUS GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC®.
7. ALL NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE SAME CIRCUIT AS BEFORE REPLACEMENT AND SWITCHED AS EXISTING, UNLESS OTHERWISE NOTED.

## CONSTRUCTION NOTES:

26.74 CONTROLLED BY INTEGRATED PROTOCOL.

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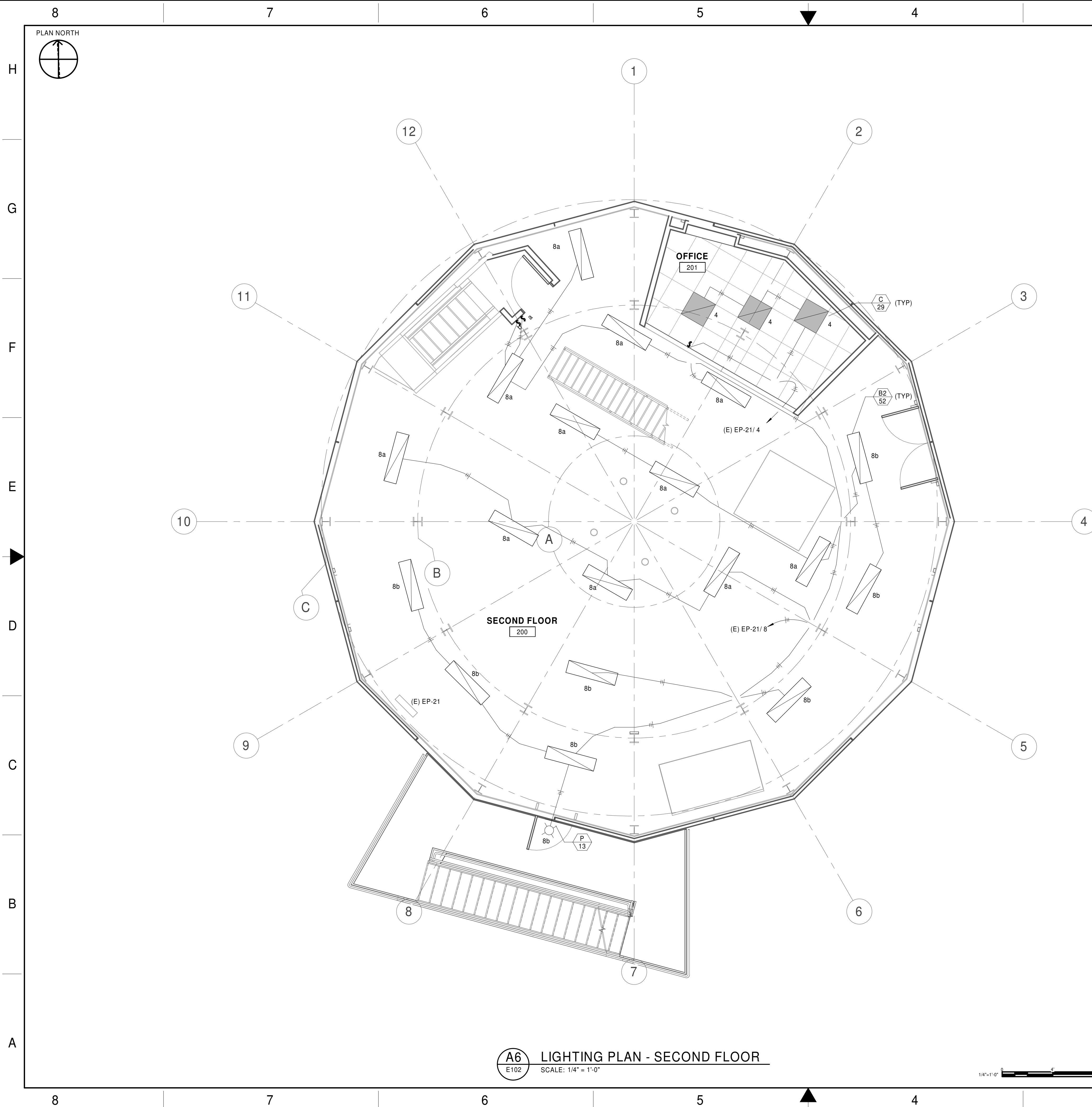
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3. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY ACCESSORIES AND MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
4. INTERCEPT AND EXTEND ALL EXISTING INTERIOR LIGHTING FIXTURES/CONTROL CIRCUITS THAT ARE EXISTING TO REMAIN, AND CONNECT TO NEW PANEL LOCATIONS.
5. WHERE LIGHT FIXTURES ARE SHOWN TO BE CONNECTED TO AN EXISTING CIRCUIT, COORDINATE WITH FIELD CONDITIONS AND PROVIDE ANY NECESSARY CONDUIT MODIFICATIONS. DO NOT ASSUME ALL EXISTING CONDUIT MAY BE REUSED AND NEW CONDUIT IS NOT REQUIRED.
6. PROVIDE A CONTINUOUS GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC®.
7. ALL NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE SAME CIRCUIT AS BEFORE REPLACEMENT AND SWITCHED AS EXISTING, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

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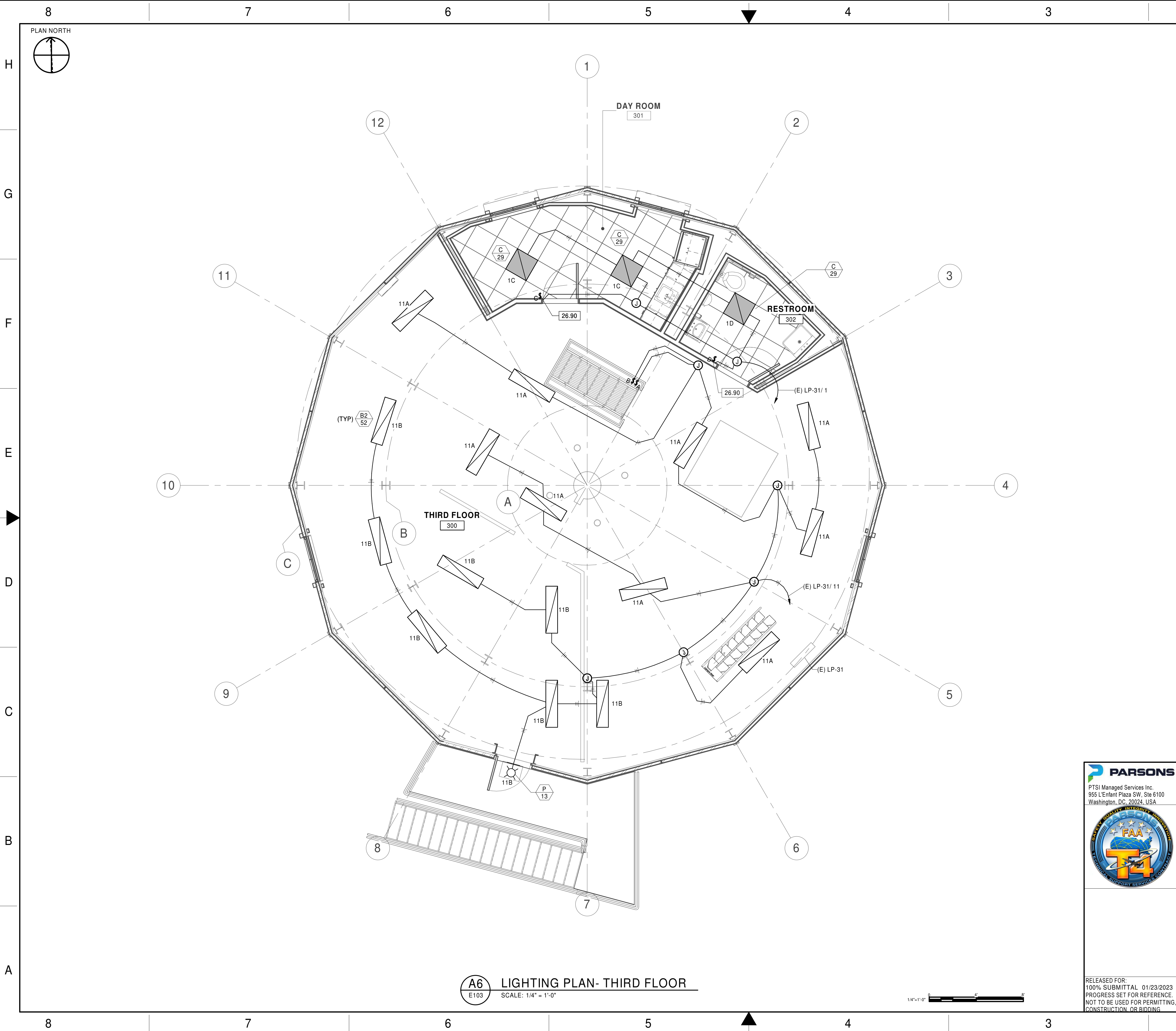
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## GENERAL NOTES

- SEE DRAWING E001 FOR LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION & ELEVATION OF ALL LIGHTING FIXTURES AND DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
- VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY ACCESSORIES AND MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
- INTERCEPT AND EXTEND ALL EXISTING INTERIOR LIGHTING FIXTURES/CONTROL CIRCUITS THAT ARE EXISTING TO REMAIN, AND CONNECT TO NEW PANEL LOCATIONS.
- WHERE LIGHT FIXTURES ARE SHOWN TO BE CONNECTED TO AN EXISTING CIRCUIT, COORDINATE WITH FIELD CONDITIONS AND PROVIDE ANY NECESSARY CONDUIT MODIFICATIONS. DO NOT ASSUME ALL EXISTING CONDUIT MAY BE REUSED AND NEW CONDUIT IS NOT REQUIRED.
- PROVIDE A CONTINUOUS GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC®.
- ALL NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE SAME CIRCUIT AS BEFORE REPLACEMENT AND SWITCHED AS EXISTING, UNLESS OTHERWISE NOTED.

## CONSTRUCTION NOTES:

26.90 PROVIDE OCCUPANCY SENSOR.

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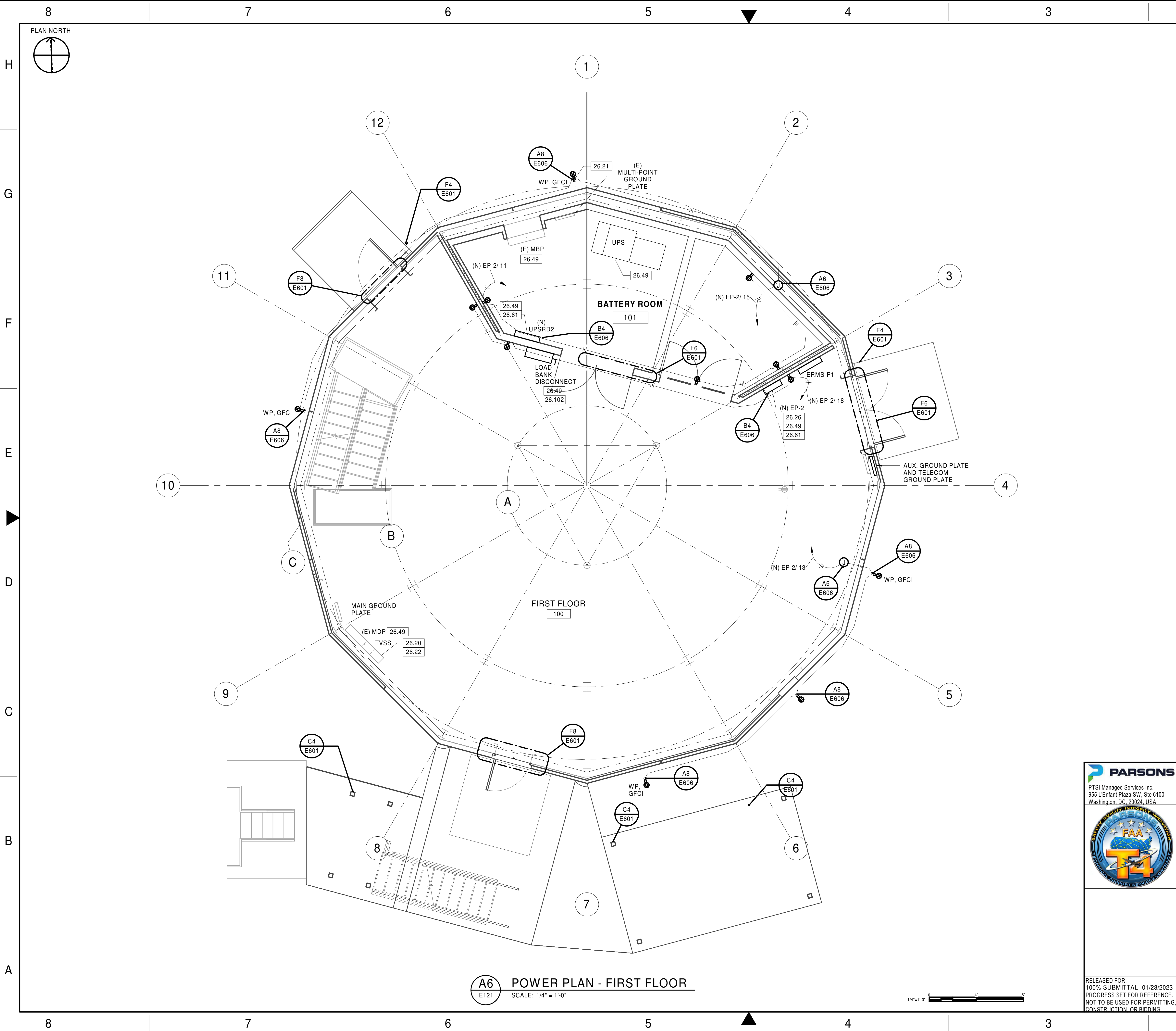
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION									
ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT LIGHTING PLAN - THIRD FLOOR									
RUSSELVILLE						AR			
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**A6** POWER PLAN - FIRST FLOOR  
E121  
SCALE: 1/4" = 1'-0"

## GENERAL NOTES

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2. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON THIS DRAWING IS NEW AND SHALL BE PROVIDED UNDER DIVISION 26.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
4. PROVIDE EQUIPMENT COMPLETE WITH ALL NECESSARY ACCESSORIES AND HARDWARE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPLETE AND FUNCTIONAL SYSTEMS MEETING THE DESIGN INTENT.
5. PROVIDE ALL FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO CONNECTION OF ALL MECHANICAL AND OTHER EQUIPMENT WHICH IS TO BE INSTALLED AS PART OF THIS CONTRACT.
6. PROVIDE A CONTINUOUS GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL POWER CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC®.
7. SPLICES ARE NOT PERMITTED ON FEEDER OR BRANCH CIRCUIT CONDUCTORS.

## CONSTRUCTION NOTES:

26.20	PROVIDE NEW FULLY CONTINUOUS "PIANO" HINGED DOOR-IN-DOOR FRONT PANEL ASSEMBLY, - MDP, 208V, 1200A RATED, 3PH, 4W, (SQUARE-D, HCR548612U, E1).
26.21	PROVIDE WITH "WHILE-IN-USE" WEATHERPROOF COVER.
26.22	PROVIDE CONDUIT SPLIT-BUSHING INSULATED GROUNDING BUSHING (BRIDGEPORT, SGBS-38740, OR EQUAL) TO ANY EXISTING CONDUIT TERMINATING AT THIS PANEL WHICH IS MISSING CONDUIT GROUNDING BUSHING. BOND BUSHING TO PANEL WITH BONDING CONDUCTOR.
26.26	RE-CIRCUIT ALL (E) BRANCH CIRCUITS OF (E) EP-1 TO (N) PANELBOARD 'EP-2'. SEE GENERAL NOTE 8.
26.49	APPLY ARC-FLASH LABELS (PROVIDED) AT ALL (E) AND (N) PANELBOARDS. AFFIX LABEL IN ACCORDANCE WITH ARC-FLASH HAZARD ANALYSIS REPORT (PROVIDED), COMPLETELY REMOVE ALL (E) ARC-FLASH LABELS.
26.61	BOND PANELBOARD BACKBOX TO GROUND PLATE WITH STRANDED CONDUCTOR. MATCH (E) CONDUCTOR SIZE. CONDUCTOR INSULATION COLOR SHALL BE ORANGE WITH BLACK TRACER.
26.102	DE-ENERGIZE AND RELOCATE (E) DISCONNECT TO LOCATION SHOWN. RE-CONFIGURE (E) FEEDER TO (E) MBP AS REQUIRED.

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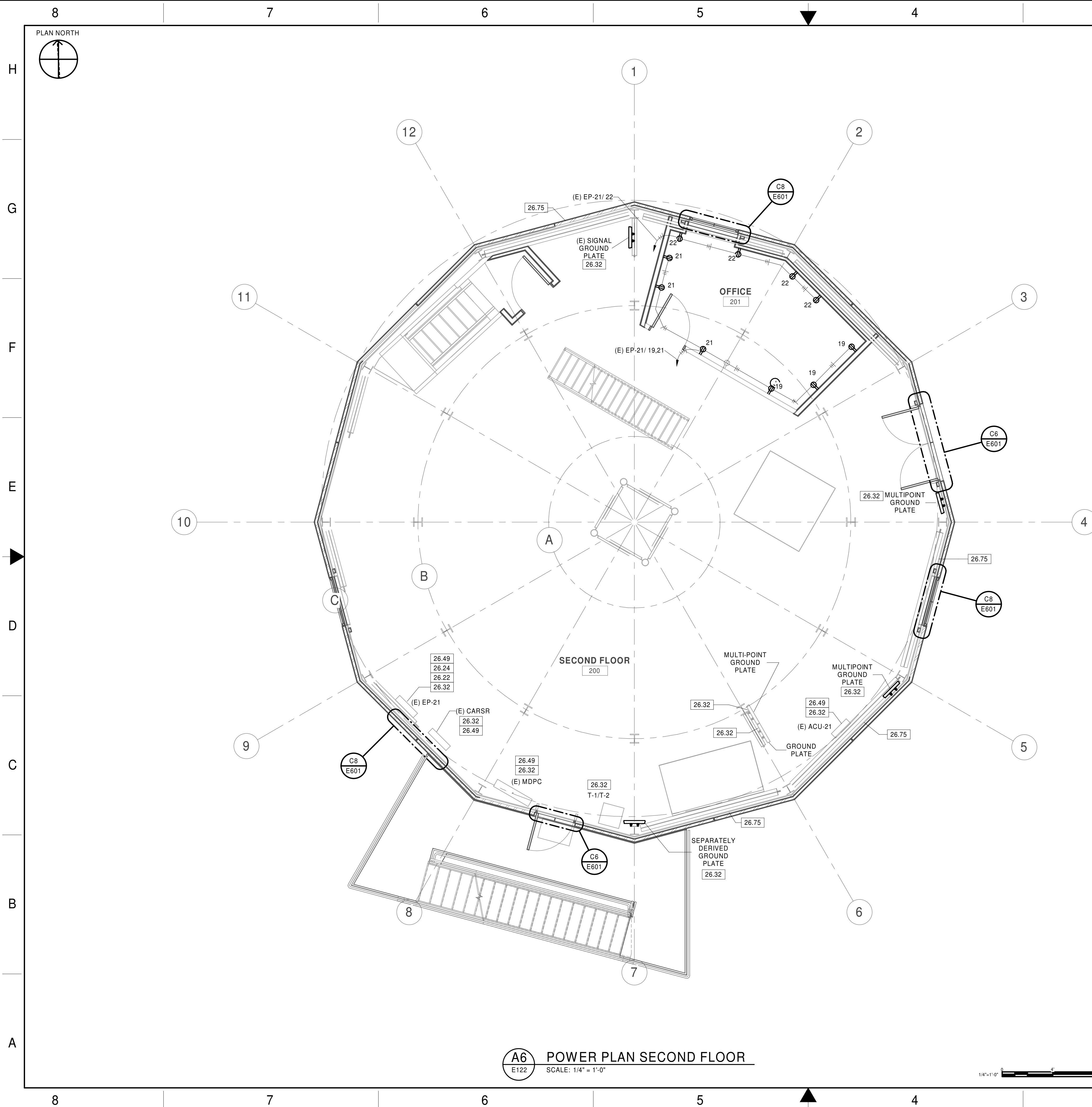
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ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT POWER PLAN - FIRST FLOOR									
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2. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON THIS DRAWING IS NEW AND SHALL BE PROVIDED UNDER DIVISION 26.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
4. PROVIDE EQUIPMENT COMPLETE WITH ALL NECESSARY ACCESSORIES AND HARDWARE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPLETE AND FUNCTIONAL SYSTEMS MEETING THE DESIGN INTENT.
5. PROVIDE ALL FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO CONNECTION OF ALL MECHANICAL AND OTHER EQUIPMENT WHICH IS TO BE INSTALLED AS PART OF THIS CONTRACT.
6. PROVIDE A CONTINUOUS GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL POWER CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC®.
7. SPLICES ARE NOT PERMITTED ON FEEDER OR BRANCH CIRCUIT CONDUCTORS.

CONSTRUCTION NOTES:

26.22	PROVIDE CONDUIT SPLIT-BUSHING INSULATED GROUNDING BUSHING (BRIDGEPORT, CTSB-38740, OR EXISTING CONDUIT TERMINAL WITH TUBING) WHICH IS MISSING CONDUIT GROUNDING BUSHING. BOND BUSHING TO PANEL WITH BONDING CONDUCTOR.
26.24	PROVIDE NEW FULLY CONTINUOUS "PIANO" HINGED DOOR-IN-DOOR FRONT PANEL ASSEMBLY.
26.32	PROTECT IN PLACE (E) EQUIPMENT.
26.49	APPLY ARC-FLASH LABELS (PROVIDED) AT ALL (E) AND (N) PANELBOARDS. AFFIX LABEL IN ACCORDANCE WITH ARC-FLASH HAZARD ANALYSIS REPORT (PROVIDED). COMPLETELY REMOVE ALL (E) ARC-FLASH LABELS.
26.75	STRUCTURAL WORK TO BE PERFORMED ALONG THIS EXTERIOR WALL SECTION (BETWEEN COLUMNS). PROVIDE AS REQUIRED NEW GROUNDING AND BONDING RE-TERMINATIONS OF ANY EXISTING CONNECTIONS WHICH HAVE BEEN DISTURBED OR COMPROMISED.

**UNCHECKED**  
**WORK-IN-PROGRESS**

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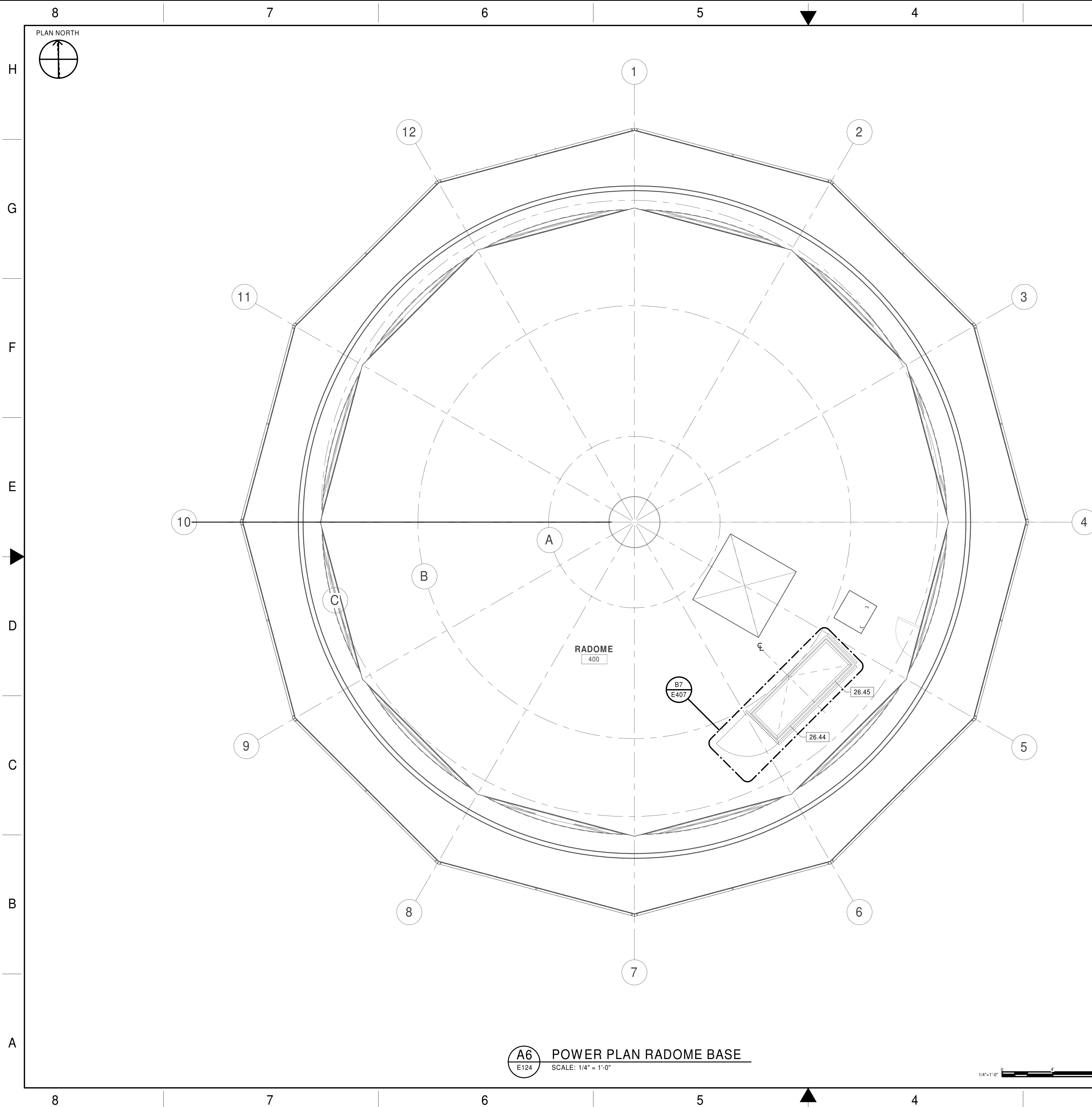
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REV	APPROVED DATE	DESCRIPTION						JCN	REDLINE DATE	APV		
<p style="text-align:center;">DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</p> <p style="text-align:left;">ATO - TECHNICAL OPERATIONS<span style="float:right;">CENTRAL SERVICE AREA</span></p> <p style="text-align:center; font-size: 2em;"><b>ARSR</b></p> <p style="text-align:center; font-size: 1.5em;"><b>LONG RANGE RADAR SUSTAINMENT PROJECT POWER PLAN - SECOND FLOOR</b></p> <p>RUSSELVILLE<span style="float:right;">ARCATA</span></p>												
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CONSTRUCTION NOTES:

26.44	GROUND (N) GUARDRAIL.
26.45	GROUND (N) ROOF HATCH.

**UNCHECKED  
WORK-IN-PROGRESS**

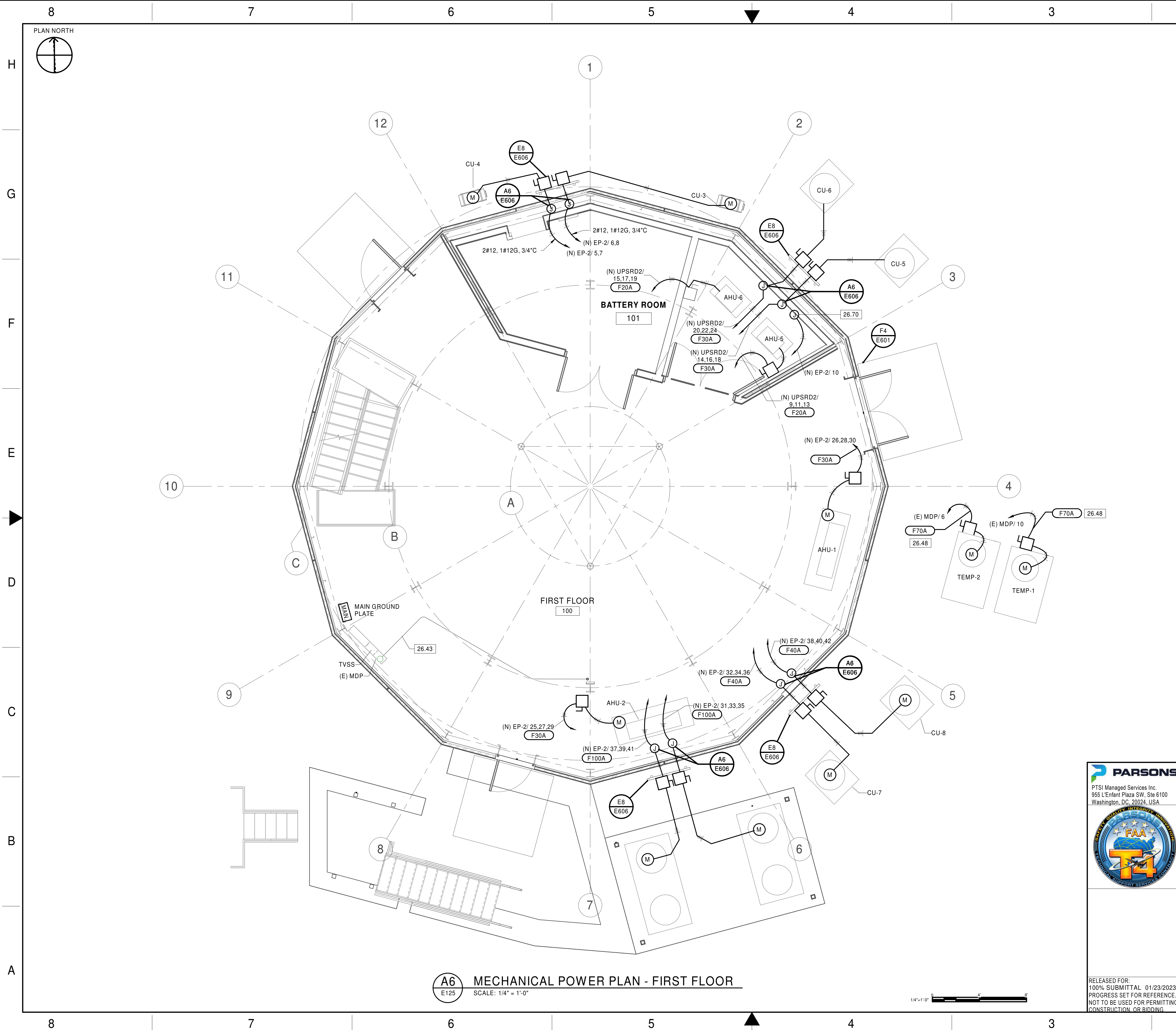
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2. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON THIS DRAWING IS NEW AND SHALL BE PROVIDED UNDER DIVISION 26.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
4. PROVIDE EQUIPMENT COMPLETE WITH ALL NECESSARY ACCESSORIES AND HARDWARE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPLETE AND FUNCTIONAL SYSTEMS MEETING THE DESIGN INTENT.
5. PROVIDE ALL FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO CONNECTION OF ALL MECHANICAL AND OTHER EQUIPMENT WHICH IS TO BE INSTALLED AS PART OF THIS CONTRACT.
6. PROVIDE A CONTINUOUS GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL POWER CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC®.
7. SPLICES ARE NOT PERMITTED ON FEEDER OR BRANCH CIRCUIT CONDUCTORS.

CONSTRUCTION NOTES:

26.43	FEEDER UP TO PANEL 'ACU-TEMP' SECOND FLOOR.
26.48	ROUTE TEMPORARY FLEXIBLE FEEDER CORD AS REQUIRED. CORDS SHALL BE DRESSED, SECURED, PROTECTED, MADE SAFE AND NOT INTERFERE WITH FACILITY OPERATIONS.
26.70	HEAT TRACE CONTROLLER PANEL, 120V.

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955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA



REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	A
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DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

ATO - TECHNICAL OPERATIONS

CENTRAL SERVICE AREA

ARSR  
LONG RANGE RADAR SUSTAINMENT PROJECT  
MECHANICAL POWER PLAN - FIRST FLOOR

RUSSELVILLE A

REVIEWED BY	SUBMITTED BY	APPROVED BY
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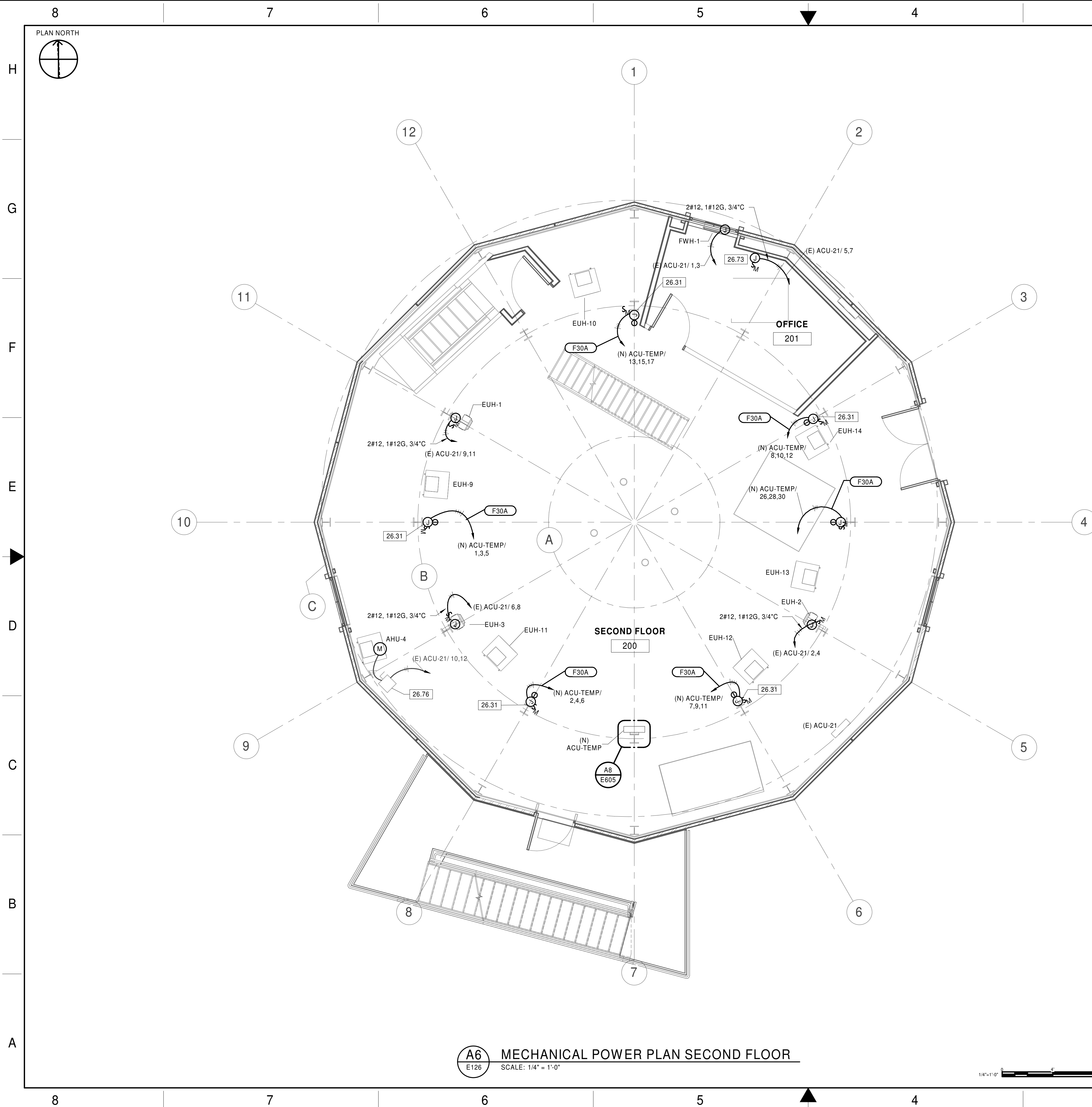
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## GENERAL NOTES

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2. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON THIS DRAWING IS NEW AND SHALL BE PROVIDED UNDER DIVISION 26.
3. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
4. PROVIDE EQUIPMENT COMPLETE WITH ALL NECESSARY ACCESSORIES AND HARDWARE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE COMPLETE AND FUNCTIONAL SYSTEMS MEETING THE DESIGN INTENT.
5. PROVIDE ALL FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO CONNECTION OF ALL MECHANICAL AND OTHER EQUIPMENT WHICH IS TO BE INSTALLED AS PART OF THIS CONTRACT.
6. PROVIDE A CONTINUOUS GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL POWER CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC®.
7. SPLICES ARE NOT PERMITTED ON FEEDER OR BRANCH CIRCUIT CONDUCTORS.

CONSTRUCTION NOTES:

26.31	PROVIDE SURFACE MOUNTED J-BOX WITH DISCONNECT AND NEMA L15-30R SIMPLEX RECEPTACLE FOR TEMPORARY, PORTABLE AC UNIT. COORDINATE LOCATION WITH MECHANICAL DRAWINGS. ALL TEMPORARY FLEXIBLE CORDS SHALL BE DRESSED, SECURED, PROTECTED, MADE SAFE AND NOT INTERFERE WITH FACILITY OPERATIONS.
26.73	BASEBOARD HEATER, 1.2 KW, 208V
26.76	EXISTING. TO REMAIN.

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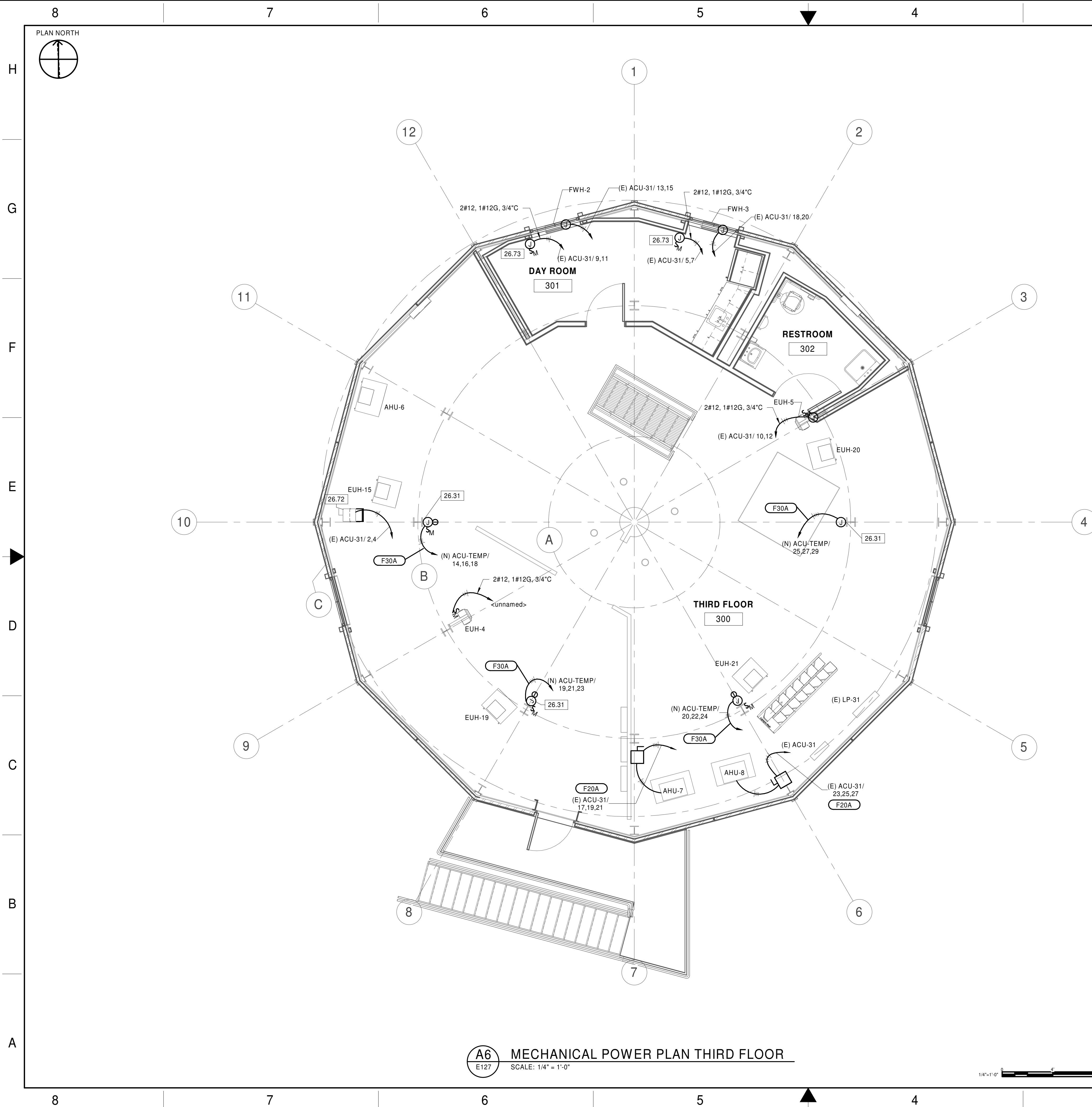
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CONSTRUCTION NOTES:

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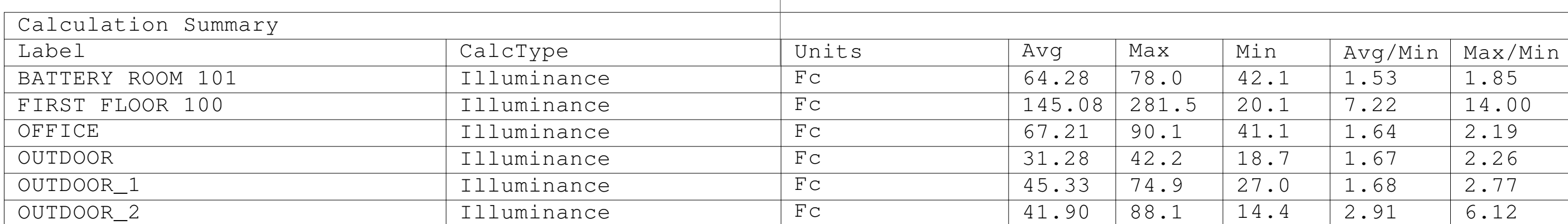
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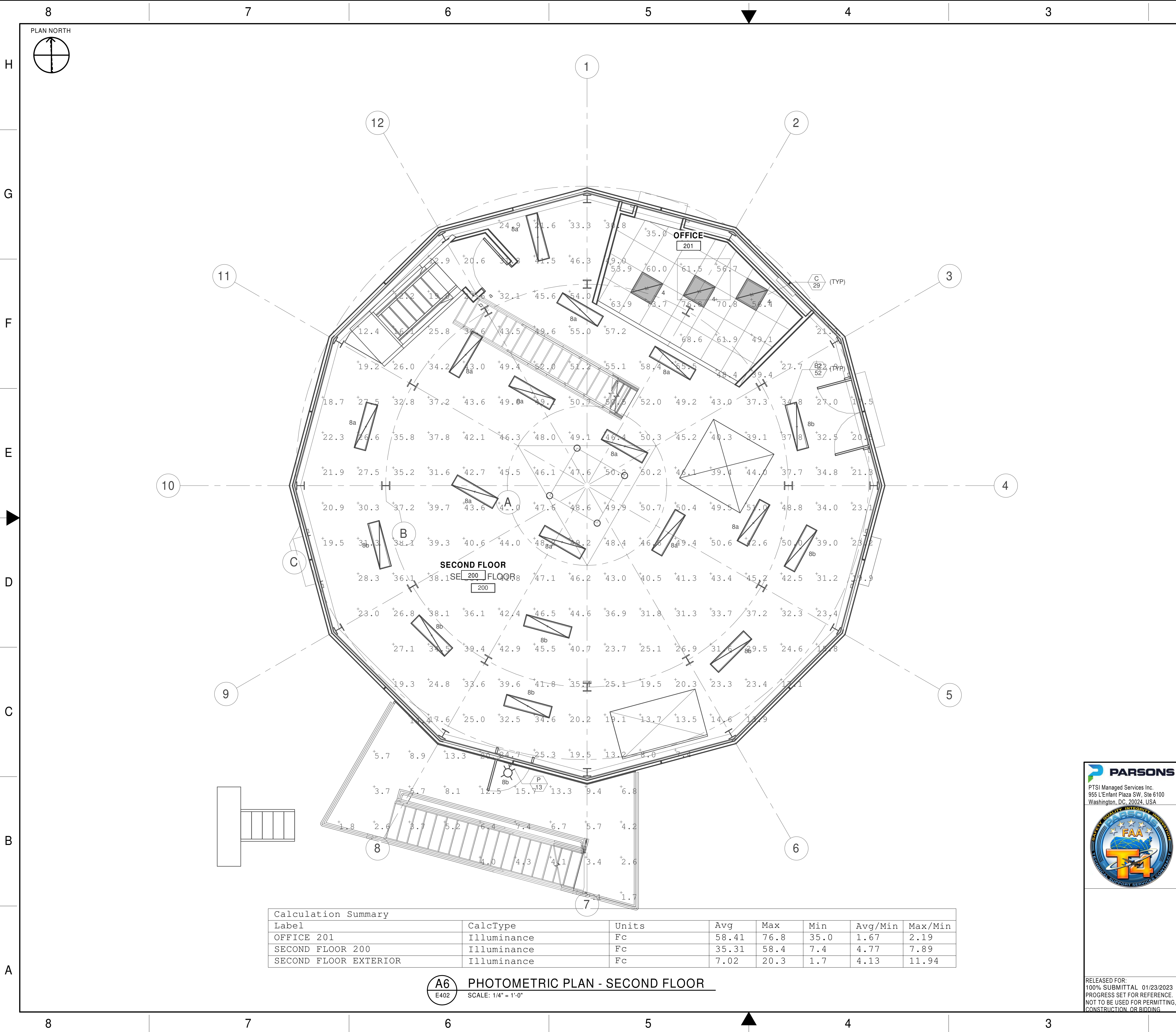
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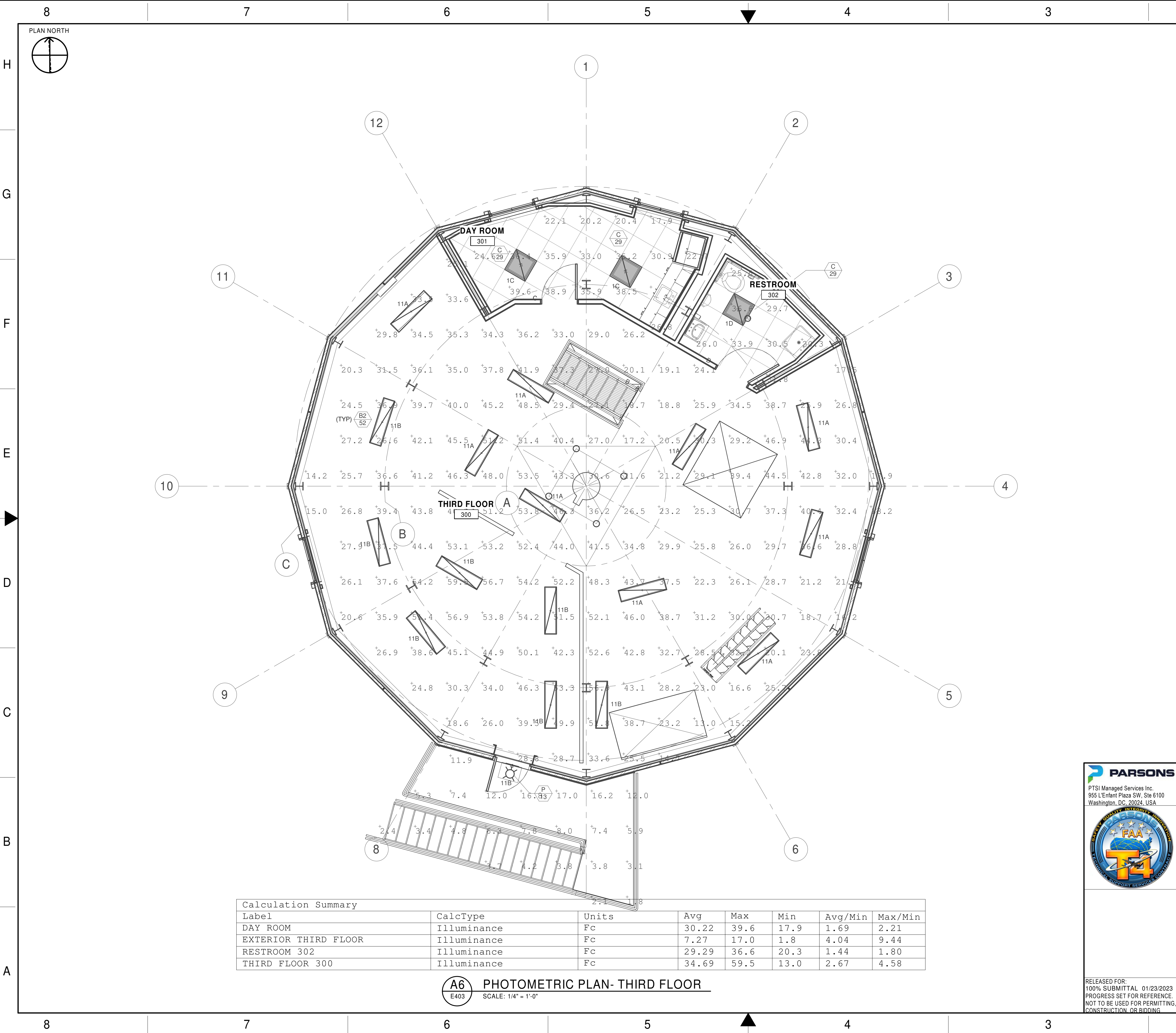
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REV	APPROVED DATE	DESCRIPTION		JCN	REDLINE DATE	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							
ATO - TECHNICAL OPERATIONS				CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT PHOTOMETRIC PLAN - SECOND FLOOR							
RUSSELVILLE				AR			
REVIEWED BY	SUBMITTED BY		APPROVED BY				
PROJECT ENGINEER			MGR: ENGINEERING				
DESIGNED		MM	ISSUED BY		DATE	JCN	22002872
DRAWN		RD	ENGINEERING SERVICES		DRAWING NO		REV
CHECKED		MM	QXR - 22002872 - E402				

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## GENERAL NOTES

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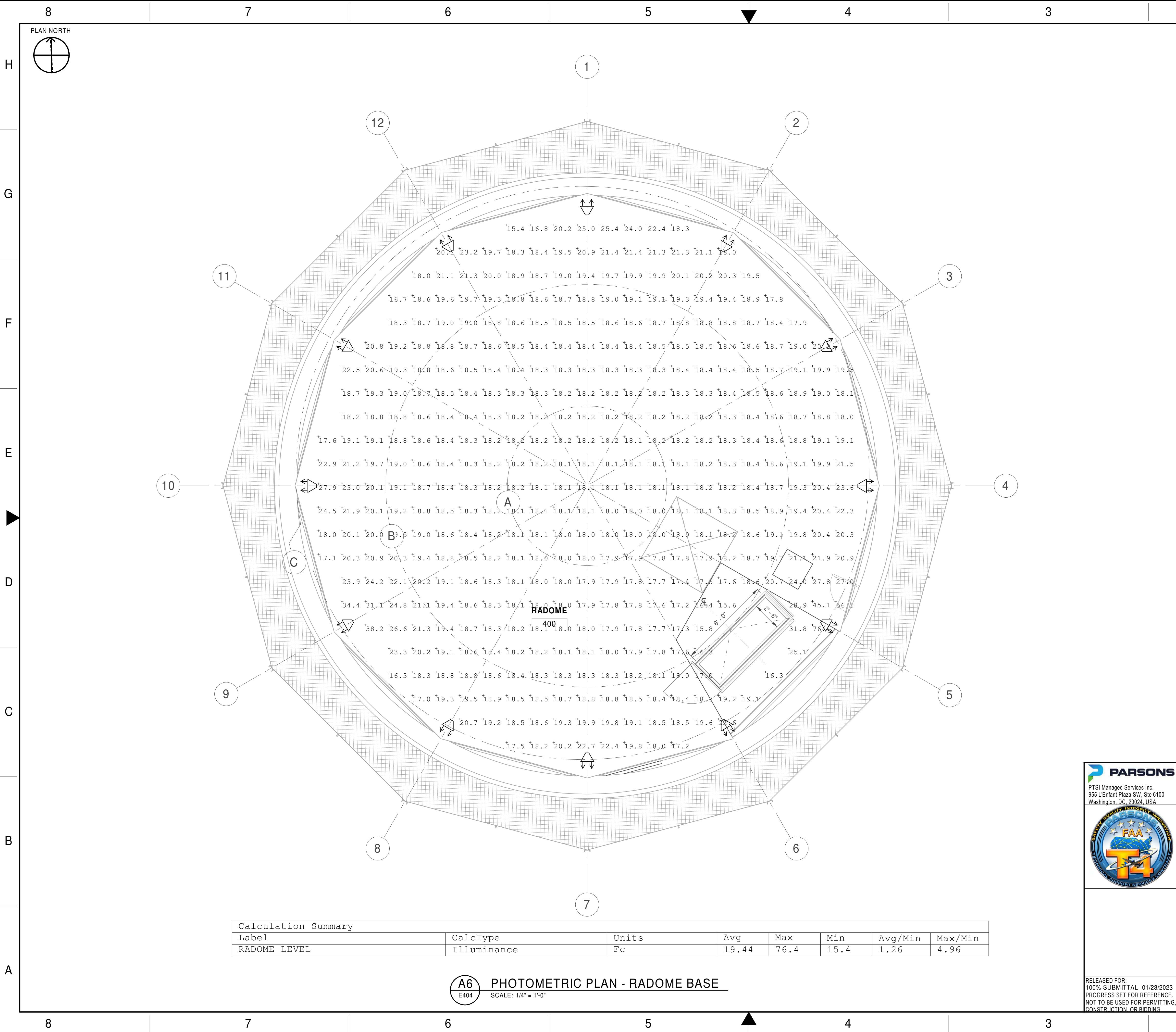
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REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APVD	
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION									
ATO - TECHNICAL OPERATIONS						CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT PHOTOMETRIC PLAN - THIRD FLOOR									
RUSSELVILLE						AR			
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Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RADOME LEVEL	Illuminance	Fc	19.44	76.4	15.4	1.26	4.96

**A6** PHOTOMETRIC PLAN - RADOME BASE  
E404 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. SEE DRAWING E001 FOR LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS.

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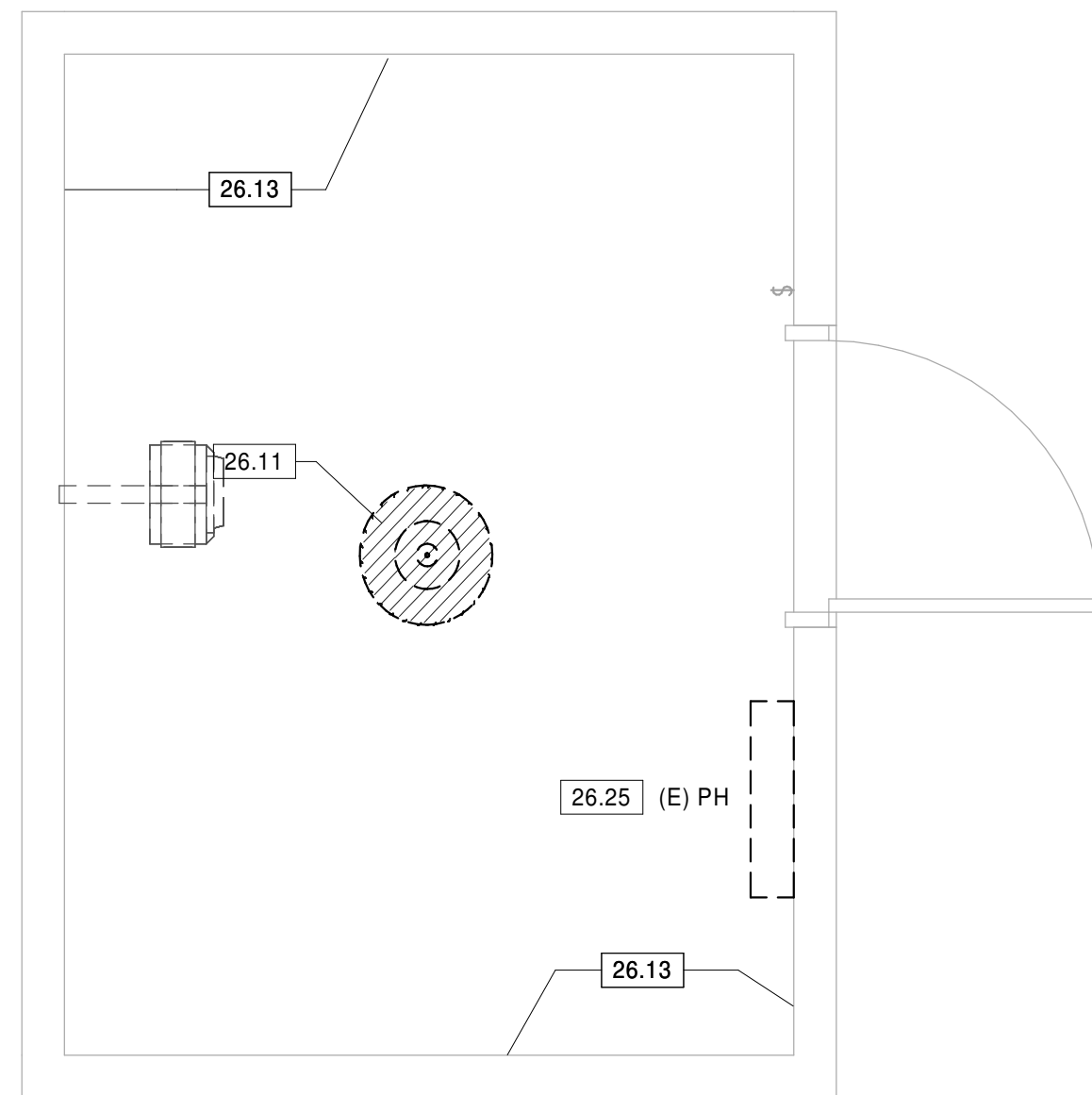
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA					
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT PHOTOMETRIC PLAN - RADOME BASE					
RUSSELVILLE AR					
REVIEWED BY	SUBMITTED BY	DO NOT SIGN	DO NOT SIGN	DO NOT SIGN	DO NOT SIGN
DESIGNED	PROJECT ENGINEER	DATE	ISSUED BY	MGR: ENGINEERING	DATE
DRAWN	RD	ENGINEERING SERVICES	DRAWING NO	JCN	22002872
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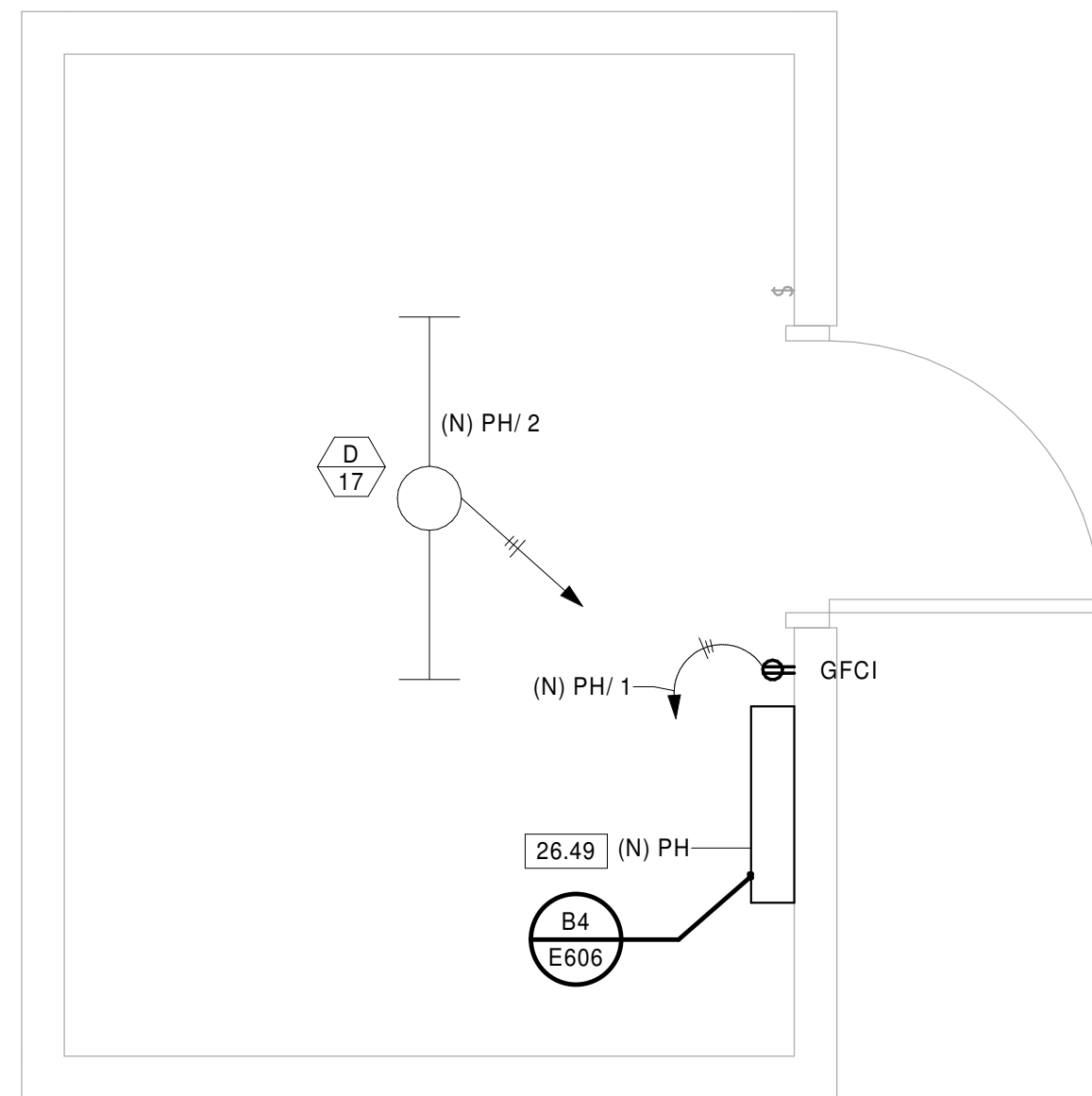








**D8** ELECTRICAL DEMOLITION PLAN - PUMP HOUSE  
E406 SCALE: 1/2" = 1'-0"



**D5** ELECTRICAL PLAN - PUMP HOUSE  
E406 SCALE: 1/2" = 1'-0"

## GENERAL NOTES

1. SEE DRAWING E001 FOR LEGENDS, SYMBOLS, NOTES AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION & ELEVATION OF ALL LIGHTING FIXTURES AND DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.
3. VERIFY EXISTING CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY ACCESSORIES AND MOUNTING HARDWARE FOR A COMPLETE INSTALLATION.
4. CIRCUIT ALL EMERGENCY LIGHT FIXTURES AHEAD OF LOCAL SWITCHING.
5. INTERCEPT AND EXTEND ALL EXISTING INTERIOR LIGHTING FIXTURES/CONTROL CIRCUITS THAT ARE EXISTING TO REMAIN, AND CONNECT TO NEW PANEL LOCATIONS.
6. WHERE LIGHT FIXTURES ARE SHOWN TO BE CONNECTED TO AN EXISTING CIRCUIT, COORDINATE WITH FIELD CONDITIONS AND PROVIDE ANY NECESSARY CONDUIT MODIFICATIONS. DO NOT ASSUME ALL EXISTING CONDUIT MAY BE REUSED AND NEW CONDUIT IS NOT REQUIRED.
7. PROVIDE A CONTINUOUS GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL LIGHTING CIRCUITS, SIZED IN ACCORDANCE WITH THE NEC®.
8. SPLICES ARE NOT ALLOWED ON FEEDER OR BRANCH CIRCUIT CONDUCTORS.

DEMOLITION NOTES:

26.11	DE-ENERGIZE AND REMOVE EXISTING FIXTURE. REMOVE ALL CONDUCTORS AND CONDUITS BACK TO SOURCE.
26.13	DE-ENERGIZE AND REMOVE BACK TO SOURCE ALL EXISTING BRANCH CIRCUIT CONDUCTORS AND CONDUITS. REMOVE ALL EXISTING SURFACE-MOUNTED RACEWAYS, OUTLETS, AND RECEPTACLES WHERE OCCURRING.
26.25	DEMOLISH (E) ESSENTIAL PANELBOARD, CIRCUIT BREAKERS AND FEEDER IN ITS ENTIRETY. RETURN PANELBOARD AND CPDs TO FAA. DEMOLISH (E) GROUND CONDUCTOR BACK TO (E) GROUND PLATE. ADJUSTED SUPPORT CHANNEL ATTACHED TO PANELBOARD.
26.49	APPLY ARC-FLASH LABELS (PROVIDED) AT ALL (E) AND (N) PANELBOARDS. AFFIX LABEL IN ACCORDANCE WITH ARC-FLASH HAZARD ANALYSIS REPORT (PROVIDED). COMPLETELY REMOVE ALL (E) ARC-FLASH LABELS.

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DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

ATO - TECHNICAL OPERATIONS

CENTRAL SERVICE AREA

ARSR  
LONG RANGE RADAR SUSTAINMENT PROJECT  
ENLARGED PLAN - PUMP HOUSE

RUSSELVILLE	AB
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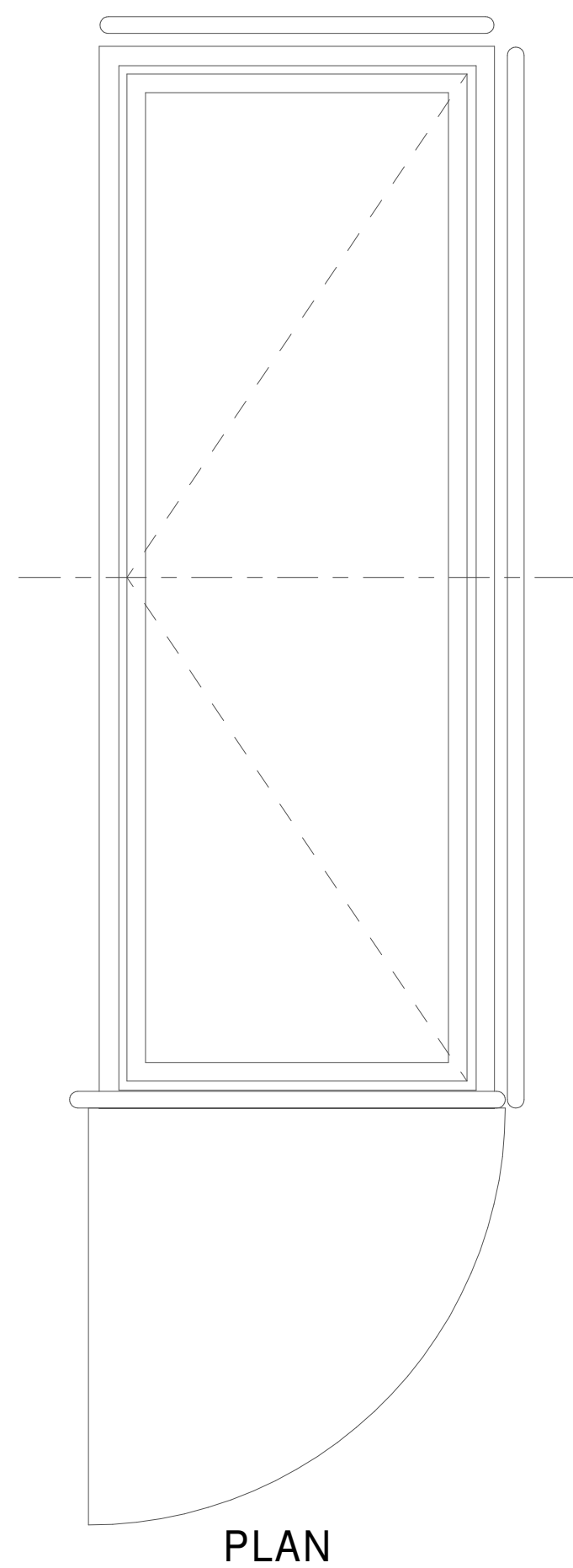


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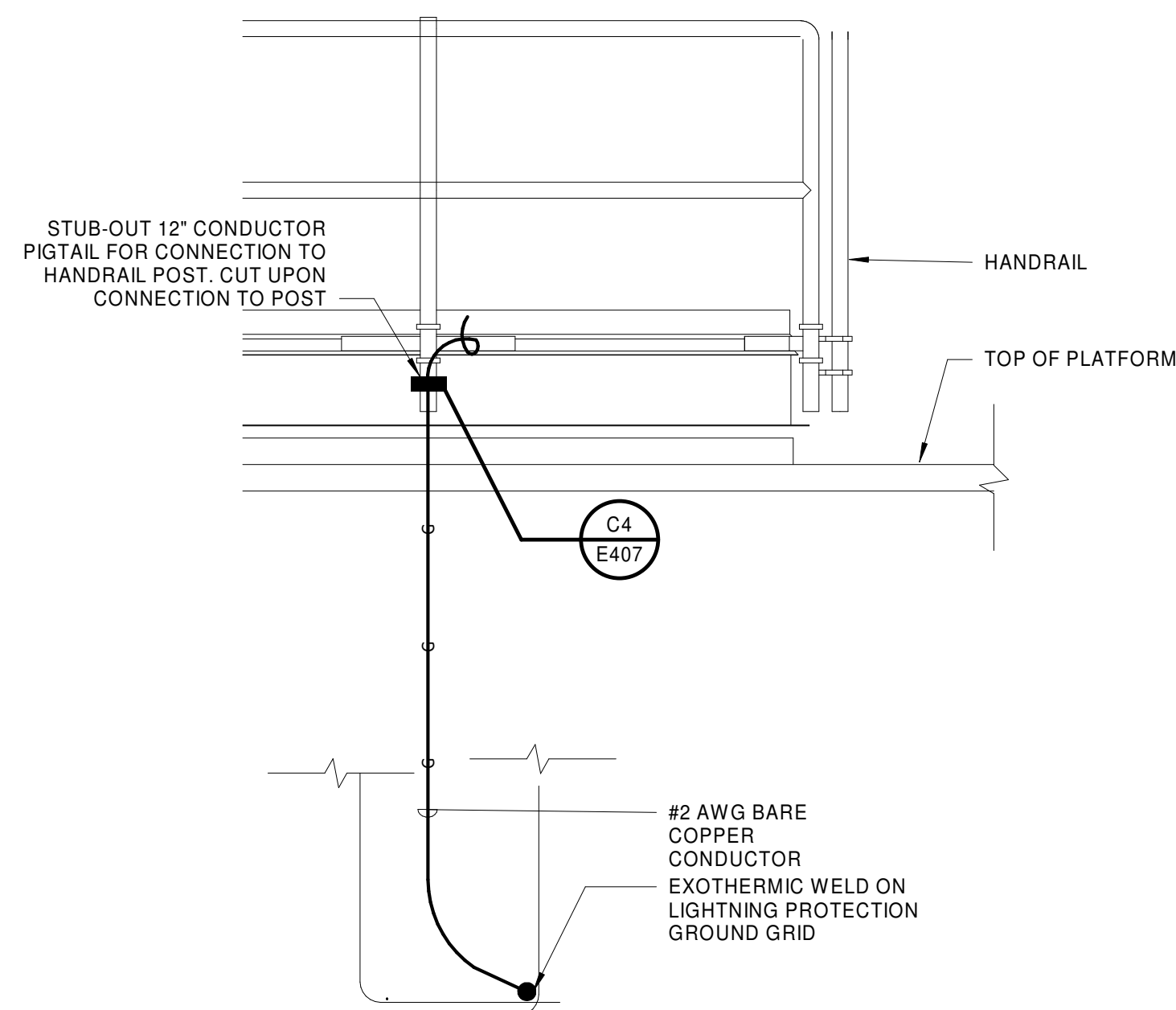
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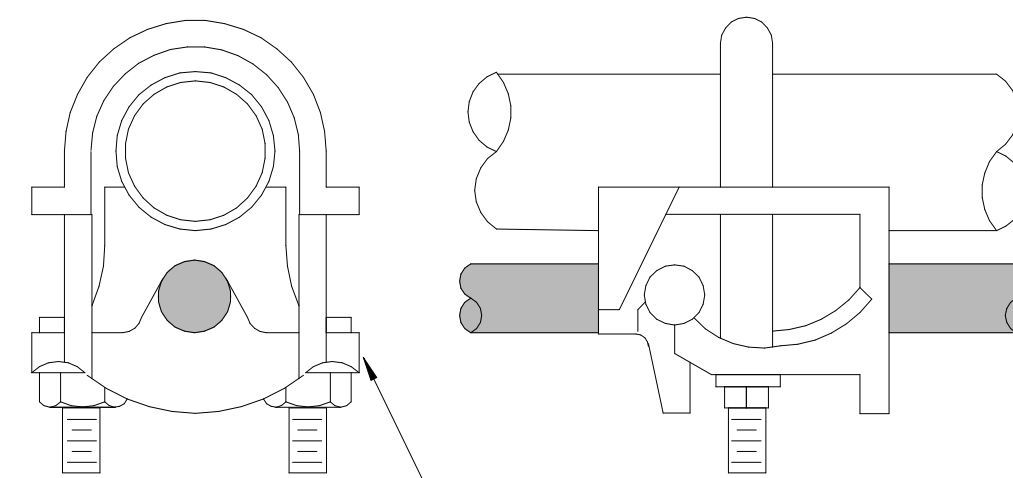




**B7** PLAN - RADOME ACCESS HATCH  
E407 SCALE: 3/4" = 1'-0"



**F4** HANDRAIL GROUNDING DETAIL  
E407 SCALE: NOT TO SCALE



**C4** HANDRAIL CONNECTION DETAIL  
E407 SCALE: NOT TO SCALE



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WORK-IN-PROGRESS**

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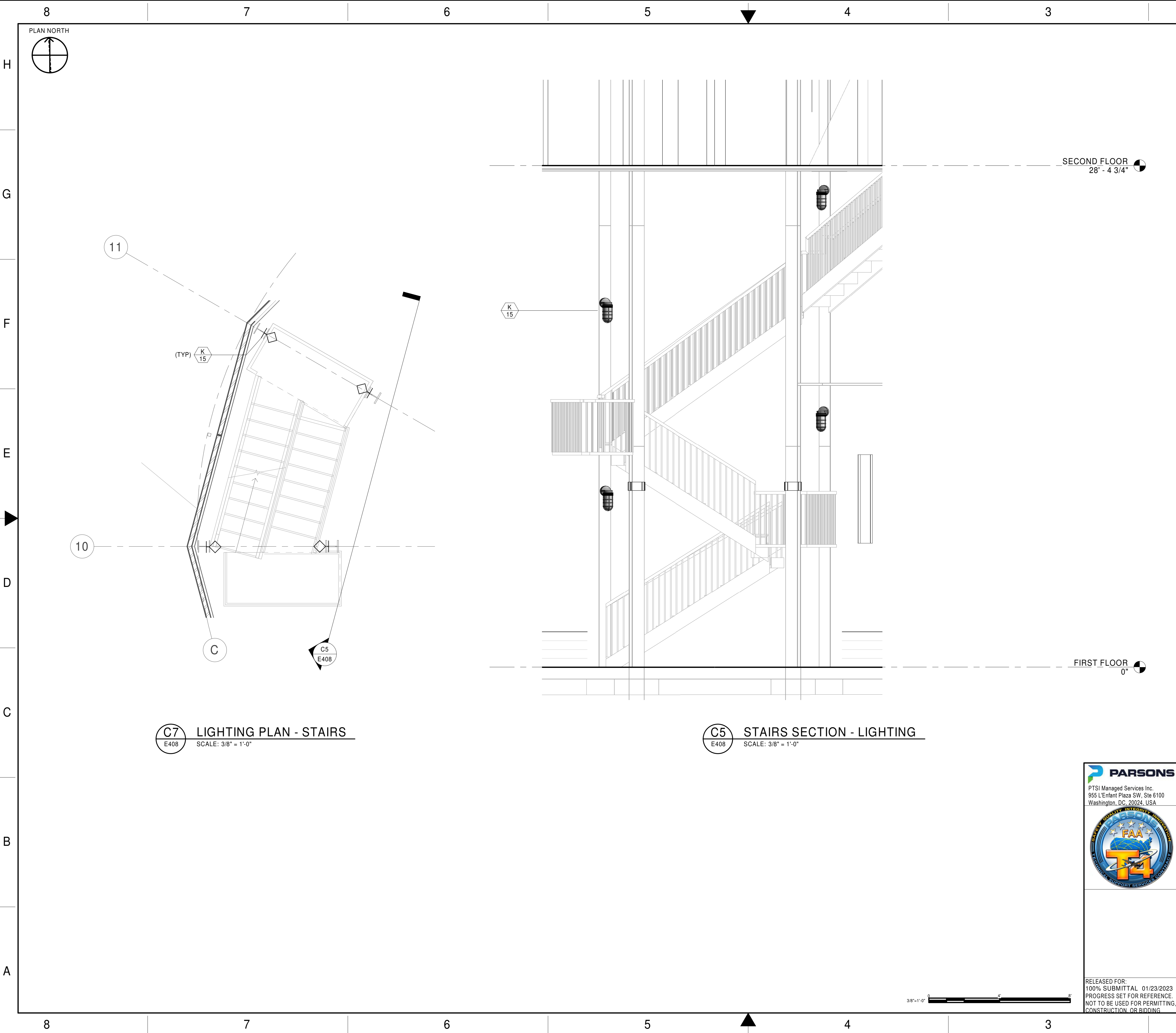
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	REV	APPROVED DATE	DESCRIPTION				JCN	REDLINE DATE	APPROVED BY	
	<p align="center"><b>DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</b></p> <p>ATO - TECHNICAL OPERATIONS <span style="float: right;">CENTRAL SERVICE AREA</span></p> <p align="center"><b>ARSR</b></p> <p align="center"><b>LONG RANGE RADAR SUSTAINMENT PROJECT ENLARGED PLAN - RADOME ACCESS HATCH</b></p>									
	<p>RUSSELVILLE</p>									
<p>RELEASED FOR: 100% SUBMITTAL 01/23/2023 PROGRESS SET FOR REFERENCE. NOT TO BE USED FOR PERMITTING, CONSTRUCTION, OR BIDDING.</p>	REVIEWED BY	SUBMITTED BY				APPROVED BY				
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GENERAL NOTES

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FAA  
T4  
TECHNICAL SUPPORT SERVICE CONTRACT

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA					
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT ENLARGED LIGHTING PLAN - STAIRS					
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PROJECT ENGINEER		MGR: ENGINEERING			
DESIGNED	MM	ISSUED BY	DATE	JCN	22002872
DRAWN	RD	ENGINEERING SERVICES	DRAWING NO		
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**PANELBOARD: (N) ACU-TEMP**

LOCATION: SECOND FLOOR 200  
SUPPLY FR.: (E) MDP  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz  
MAINS TYPE: MLO  
MCB FRAME / TRIP SIZE:

**INTERRUPTING RATING (kA SYMMETRICAL):**  
**MINIMUM BUS RATING: 225 A**  
**NEUTRAL BUS RATING: 100%**

CKT NO.	DESCRIPTIONS	CIRCUIT SIZE	TRIP AMPS	POLES	PHASE A		PHASE B		PHASE C		POLES	TRIP AMPS	CIRCUIT SIZE	DESCRIPTIONS	CKT NO.		
1	EUH-11, SECOND FLOOR (TEMP)	F30A	30 A	3	2064 VA	2064 VA					3	30 A	F30A	EUH-19, THIRD FLOOR (TEMP)	2		
3							2064 VA	2064 VA							6		
5									2064 VA	2064 VA						8	
7																10	
9	EUH-9, SECOND FLOOR (TEMP)	F30A	30 A	3	2064 VA	2064 VA					3	30 A	F30A	EUH-15, THIRD FLOOR (TEMP)	12		
11									2064 VA	2064 VA						14	
13																16	
15																18	
17	EUH-10, SECOND FLOOR (TEMP)	F30A	30 A	3	2064 VA	2064 VA					3	30 A	F30A	EUH-20, THIRD FLOOR (TEMP)	20		
19									2064 VA	2064 VA						22	
21																24	
23																26	
25	EUH-14, SECOND FLOOR (TEMP)	F30A	30 A	3	2064 VA	2064 VA					3	30 A	F30A	EUH-21, THIRD FLOOR (TEMP)	28		
27									2064 VA	2064 VA						30	
29																	
27	EUH-12, SECOND FLOOR (TEMP)	F30A	30 A	3	2064 VA	2064 VA					3	20 A	F30A	EUH-13, SECOND FLOOR 200	32		
29																	
TOTAL CONNECTED LOAD / PHASE					20640 VA		20640 VA		20640 VA		TOTAL LOAD SUMMARY						
LOAD CLASSIFICATIONS			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			CURRENT (AMPS)					
HVAC			61920 VA			100.00%			61920 VA			LOAD (KVA)					
												CONNECTED LOAD: 61.9 kVA					
												CONNECTED CURRENT					
												ESTIMATED DEMAND LOAD: 61.9 kVA					
												ESTIMATED DEMAND CURRENT					
												GROWTH FACTOR:					
												ESTIMATED GROWTH CURRENT					
												0 A					
PANELBOARD...																	

**PANELBOARD: (N) PH**

LOCATION:  
SUPPLY FR.: (E) MDP  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz  
MAINS TYPE: 50A MCB  
MCB FRAME / TRIP SIZE:

**INTERRUPTING RATING (kA SYMMETRICAL):**  
**MINIMUM BUS RATING: 100 A**  
**NEUTRAL BUS RATING: 100%**

CKT NO.	DESCRIPTIONS	CIRCUIT SIZE	TRIP AMPS	POLES	PHASE A		PHASE B		PHASE C		POLES	TRIP AMPS	CIRCUIT SIZE	DESCRIPTIONS	CKT NO.
1	RECEPTACLE	2#12,1#12G	20 A	1	180 VA	17 VA					1	20 A	2#12,1#12G	LIGHTING	2
3	SPARE	--	20 A	1			0 VA	0 VA			1	20 A		SPARE	4
5	SPACE	--	--	1					--	--	1	--		SPACE	6
7	SPACE	--	--	1	--	--					1	--		SPACE	8
9	SPACE	--	--	1			--	--			1	--		SPACE	10
11	SPACE	--	--	1					--	--	1	--		SPACE	12
TOTAL CONNECTED LOAD / PHASE					196 VA		0 VA		0 VA						
LOAD CLASSIFICATIONS			CONNECTED LOAD			DEMAND FACTOR			ESTIMATED DEMAND			TOTAL LOAD SUMMARY			
RECEPTACLE			180 VA			100.00%			180 VA			LOAD (KVA)		CURRENT (AMPS)	
												CONNECTED LOAD: 0.2 kVA		CONNECTED CURRENT	0.5 A
												ESTIMATED DEMAND LOAD: 0.2 kVA		ESTIMATED DEMAND CURRENT	0.5 A
PANELBOARD...												GROWTH FACTOR:		ESTIMATED GROWTH CURRENT	0 A

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## GENERAL NOTES

CONSTRUCTION NOTES:

26.88	DEMOLISH (E) OCPD. PROVIDE (N) SPACE.
-------	---------------------------------------

**PANELBOARD: (E) ACU-21**

LOCATION: SECOND FLOOR 200  
SUPPLY FR.: (E) MDP  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz  
MAINS TYPE: MLO  
MCB FRAME / TRIP SIZE:

**INTERRUPTING RATING (kA SYMMETRICAL):**  
**MINIMUM BUS RATING: 150 A**  
**NEUTRAL BUS RATING: 100%**

CKT NO.		DESCRIPTIONS	CIRCUIT SIZE	TRIP AMPS	POLES	PHASE A		PHASE B		PHASE C		POLES	TRIP AMPS	CIRCUIT SIZE	DESCRIPTIONS	CKT NO.
26.88	1	FWH-1	2#12,1#12G	20 A	2	750 VA	3096 VA	750 VA	3096 VA			2	45 A	2#12,1#12G	EHU-2, SECOND FLOOR	2
											4					
											6					
26.62	5	BASE BOARD HEATER, SECOND...	2#12,1#12G	45 A	2	600 VA	3096 VA			600 VA	3096 VA	2	45 A	2#12, 1#12G	EUH-3, SECOND FLOOR	8
											10					
26.62	9	EUH-1 SECOND FLOOR	2#12,1#12G	30 A	2			3096 VA	0 VA			2	20 A		AHU-4 SECOND FLOOR	12
									3096 VA	0 VA	14					
26.88	13	SPARE	--	20 A	2	0 VA	0 VA					2	20 A	--	SPARE	14
	15														16	
	17	SPACE	--	--	1			0 VA	0 VA	--	0 VA	1	15 A	--	SPARE	18
	19					0 VA	--	0 VA	--						20	
	21	SPARE	--	20 A	2			0 VA	--			1	--	--	SPACE	22
	23									--	--				24	
	25	SPACE	--	--	1	--	--			--	--	1	--	--	SPACE	26
	27							--	--						28	
	29	SPACE	--	--	1			--	--	--	--	1	--	--	SPACE	30
TOTAL CONNECTED LOAD / PHASE						7542 VA		6942 VA		6792 VA		TOTAL LOAD SUMMARY				
LOAD CLASSIFICATIONS				CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		TOTAL LOAD SUMMARY						
HYAC				6192 VA		100.00%		6192 VA		LOAD (KVA)						
POWER				15084 VA		100.00%		15084 VA		CURRENT (AMPS)						
										CONNECTED LOAD: 21.3 kVA						
										ESTIMATED DEMAND LOAD: 21.3 kVA						
										GROWTH FACTOR:						
										ESTIMATED GROWTH CURRENT						
										59.1 A						
										0 A						
PANELBOARD...																

**PANELBOARD: (E) EP-21**

LOCATION: SECOND FLOOR 200  
SUPPLY FR.: (E) MDP  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz  
MAINS TYPE: MCB  
MCB FRAME / TRIP SIZE:

**INTERRUPTING RATING (kA SYMMETRICAL):**  
**MINIMUM BUS RATING: 225 A**  
**NEUTRAL BUS RATING: 100%**

	CKT NO.	DESCRIPTIONS	CIRCUIT SIZE	TRIP AMPS	POLES	PHASE A	PHASE B	PHASE C	POLES	TRIP AMPS	CIRCUIT SIZE	DESCRIPTIONS	CKT NO.
	1	(E) FIRE ALARM, EMERG LIGHTS 2ND FLOOR	EXISTING	20 A	1	1920 VA	1920 VA		1	20 A	2#12,1#12G	RCPCT 3RD FL I-BEAM, WEST 3RD FL...	2
	3	SPARE	--	20 A	1		0 VA	87 VA	1	20 A	2#12,1#12G	LIGHTING - OFFICE 201	4
	5	SPARE	--	20 A	1			0 VA	1920 VA	1	20 A	(E) TELEPHONE EQUIPMENT 3RD...	6
	7	(E) RCPCT I-BEAM 2ND FLOOR	EXISTING	20 A	1	1920 VA	948 VA		1	20 A	2#12,1#12G	LIGHTING - SECOND FLOOR 200	8
	9	(E) ACE CONVENIENCE...	EXISTING	20 A	1		1920 VA	1920 VA	1	20 A	EXISTING	(E) RECEPTACLE/LIGHTING GROUND...	10
	11	(E) APU CONVENIENCE OUTLETS	EXISTING	20 A	1			1920 VA	1920 VA	1	20 A	(E) RECEPTACLES/LIGHTING GROUN...	12
	13	SPARE	--	20 A	1	0 VA	1920 VA		1	20 A	EXISTING	(E) RECEPTACLES/LIGHTING GROUN...	14
	15	(E) RRWDS 3RD FLOOR	EXISTING	20 A	1		1920 VA	1920 VA	1	20 A	EXISTING	(E) RECEPTACLES/LIGHTING GROUN...	16
	17	(E) CODEX MODEM 3RD FLOOR	EXISTING	20 A	1			1920 VA	1920 VA	1	20 A	(E) RECEPTACLES/LIGHTING GROUN...	18
	19	RECEPTACLE - OFFICE 201	2#12,1#12G	20 A	1	540 VA	1920 VA		1	20 A	EXISTING	(E) RECEPTACLES/LIGHTING GROUN...	20
	21	RECEPTACLE - OFFICE 201	2#12,1#12G	20 A	1		540 VA	720 VA	1	20 A	2#12,1#12G	RECEPTACLE - OFFICE 201	22
	23	(E) FTI SAT A 3RD FLOOR	EXISTING	20 A	1			1920 VA	0 VA	1	20 A	(E) SPARE	24
	25	(E) FTI SAT B 3RD FLOOR	EXISTING	20 A	1	1920 VA	0 VA						26
	27						2080 VA	0 VA					28
	29	(E) FTI SAT DISH HEATER OUTSIDE	EXISTING	25 A	2			2080 VA	0 VA	3	20 A	(E) SPARE	30
	31					167 VA	0 VA						32
	33	(E) WINCH - 3RD FLOOR	EXISTING	20 A	3		167 VA	0 VA		3	20 A	(E) SPARE	34
	35							167 VA	0 VA				36
	37					0 VA	0 VA						38
	39	(E) SPARE	--	20 A	3		0 VA	0 VA		3	20 A	(E) SPARE	40
	41							0 VA	0 VA				42
		TOTAL CONNECTED LOAD / PHASE				13132 VA	11269 VA	13767 VA					
LOAD CLASSIFICATIONS				CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		TOTAL LOAD SUMMARY			
Other				0 VA		0.00%		0 VA		LOAD (KVA)		CURRENT (AMPS)	
POWER				14260 VA		100.00%		14260 VA		CONNECTED LOAD:		CONNECTED CURRENT	
LIGHTING				1933 VA		125.00%		2416 VA		ESTIMATED DEMAND LOAD:		ESTIMATED DEMAND CURRENT	
RECEPTACLE				21000 VA		100.00%		21000 VA		GROWTH FACTOR:		ESTIMATED GROWTH CURRENT	
PANELBOARD...												0 A	

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ATO - TECHNICAL OPERATIONS					CENTRAL SERVICE AREA				
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT PANELBOARD SCHEDULES - SECOND FLOOR									
RUSSELVILLE					AR				
REVIEWED BY	SUBMITTED BY					APPROVED BY			
		DATE					MGR: ENGINEERING		
		PROJECT ENGINEER					ISSUED BY		
		DESIGNED MM					DRAWING NO		
		DRAWN RD					JCN		
		CHECKED MM					22002872		
QXR - 22002872 - E503					REVISION				



## GENERAL NOTES

### CONSTRUCTION NOTES:

26.62	REMOVE (E) OCPD(S) AND PROVIDE (N) OCPD SIZED AS SHOWN. MATCH (E) AIC RATING. RE-LABEL.
26.67	REMOVE (E) SPACE. PROVIDE (N) OCPD SIZED AS SHOWN. MATCH (E) AIC RATING. LABEL.
26.88	DEMOLISH (E) OCPD. PROVIDE (N) SPACE.
26.103	DEMOLISH (E) OCPD. PROVIDE (N) SPACE.

**PANELBOARD: (E) ACU-31**

LOCATION: THIRD FLOOR 300  
SUPPLY FR.: (E) MDP  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz  
MAINS TYPE: MLO

**INTERRUPTING RATING (kA SYMMETRICAL):**  
**MINIMUM BUS RATING: 150 A**  
**NEUTRAL BUS RATING: 100%**

CKT NO.	DESCRIPTIONS	CIRCUIT SIZE	TRIP AMPS	POLES	PHASE A		PHASE B		PHASE C		POLES	TRIP AMPS	CIRCUIT SIZE	DESCRIPTIONS	CKT NO.
1	EUH-4, THIRD FLOOR 300	2#12,1#12G	45 A	2	3096 VA	0 VA					2	45 A	EXISTING	AHU-6, THIRD FLOOR	2
3							3096 VA	0 VA							4
5	BASEBOARD HEATER, THIRD FLOOR	2#12,1#12G	40 A	2					375 VA	250 VA	2	45 A	2#12,1#12G	IWH-1 (BELOW SINK, THIRD FLOOR)	6
7					375 VA	250 VA									8
9	BASEBOARD HEATER, THIRD FLOOR	2#12,1#12G	30 A	2			375 VA	3096 VA			2	20 A	2#12,1#12G	EUH-5, THIRD FLOOR	10
11									375 VA	3096 VA	1	20 A	--	SPARE	12
13	FWH-2	2#12,1#12G	20 A	2	750 VA	0 VA	750 VA	500 VA			1	20 A	2#12,1#12G	EHU-1, THIRD FLOOR	14
15									1080 VA	750 VA	2	20 A	2#12,1#12G	FWH-3	16
17															18
19	AHU-7	F20A	15 A	3	1080 VA	750 VA	1080 VA	--			1	--	--	SPACE	20
21									1080 VA	--	1	--	--	SPACE	22
23											1	--	--	SPACE	24
25	AHU-8	F20A	15 A	3	1080 VA	--					1	--	--	SPACE	26
27							1080 VA	--			1	--	--	SPACE	28
29	SPACE	--	--	1					--	--	1	--	--	SPACE	30

LOAD CLASSIFICATIONS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTAL LOAD SUMMARY			
				LOAD (KVA)		CURRENT (AMPS)	
HVAC	12672 VA	100.00%	12672 VA				
POWER	11692 VA	100.00%	11692 VA				
				CONNECTED LOAD:	24.4 kVA	CONNECTED CURRENT	67.6 A
				ESTIMATED DEMAND LOAD:	24.4 kVA	ESTIMATED DEMAND CURRENT	67.6 A
				GROWTH FACTOR:		ESTIMATED GROWTH CURRENT	0 A

**PANELBOARD: (E) LP-31**

LOCATION: THIRD FLOOR 300  
SUPPLY FR.: (E) MDP  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 1

VOLTAGE: 208Y/120V,3P,4W,60Hz  
MAINS TYPE: MCB  
MCB FRAME / TRIP SIZE:

**INTERRUPTING RATING (kA SYMMETRICAL):**  
**MINIMUM BUS RATING: 225 A**  
**NEUTRAL BUS RATING: 100%**

[illegible]

LOAD CLASSIFICATIONS	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTAL LOAD SUMMARY			
Other	0 VA	0.00%	0 VA	LOAD (KVA)		CURRENT (AMPS)	
POWER	500 VA	100.00%	500 VA	CONNECTED LOAD:	13.6 KVA	CONNECTED CURRENT	37.8 A
LIGHTING	1933 VA	125.00%	2416 VA	ESTIMATED DEMAND LOAD:	14.1 KVA	ESTIMATED DEMAND CURRENT	39.1 A
RECEPTACLE	10200 VA	100.00%	10200 VA	GROWTH FACTOR:		ESTIMATED GROWTH CURRENT	0 A

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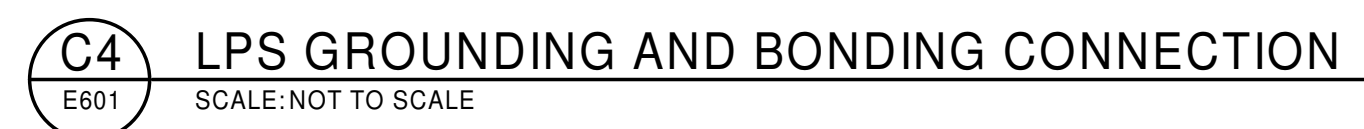
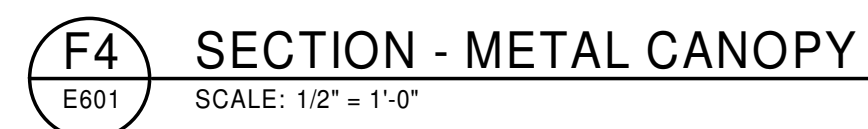
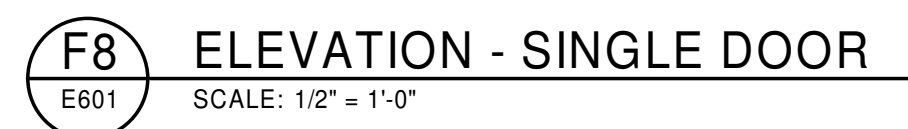
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ARSR LONG RANGE RADAR SUSTAINMENT PROJECT PANELBOARD SCHEDULES - THIRD FLOOR									
RUSSELVILLE									
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PROJECT ENGINEER				MGR: ENGINEERING					
DESIGNED		Designer		ISSUED BY		DATE		JCN 22002872	
DRAWN		Author		ENGINEERING SERVICES		DRAWING NO		REV	
CHECKED		Checker				QXR - 22002872 - E504			

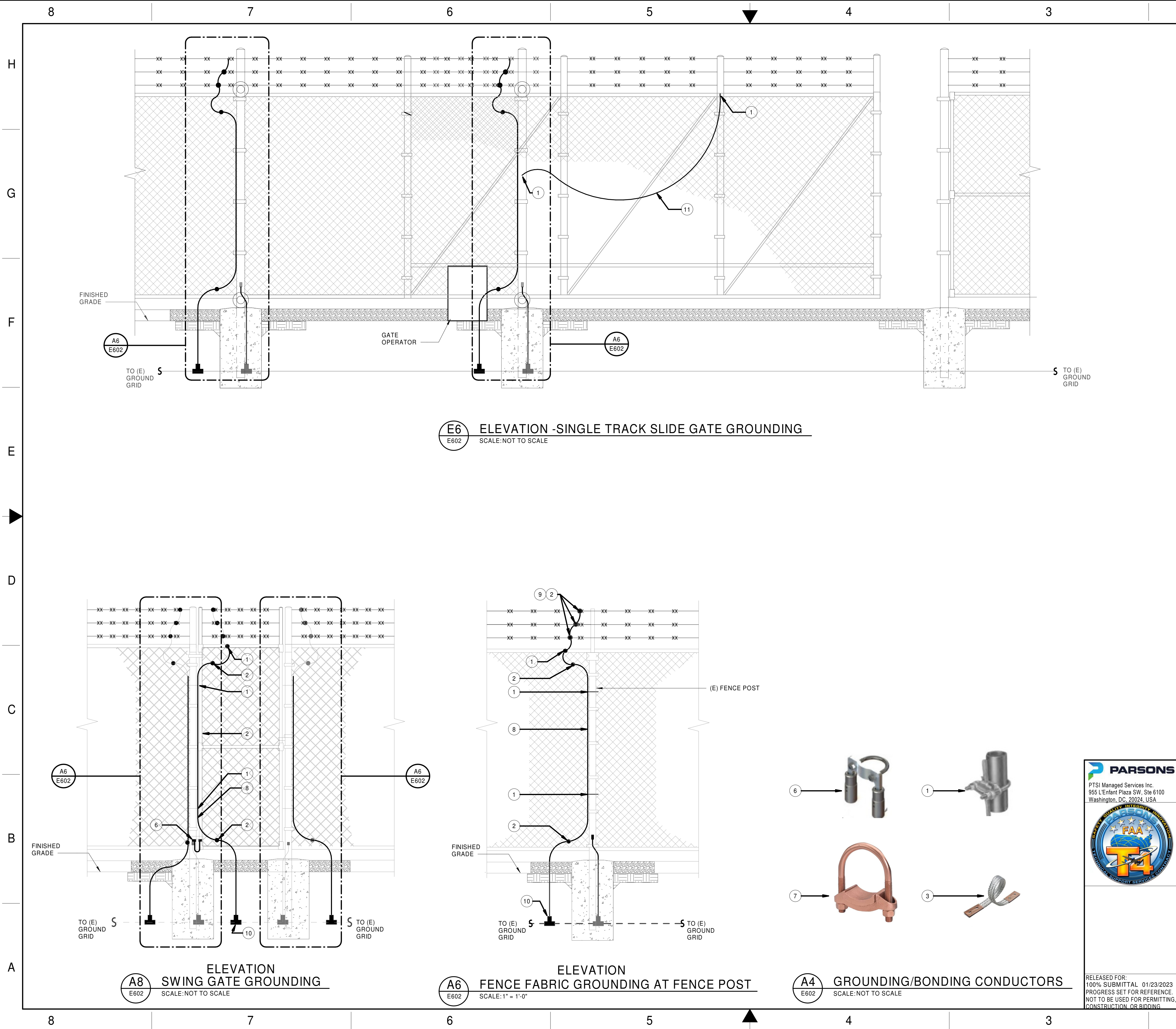






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DETAIL NOTES:

1. GROUNDING SHALL COMPLY WITH REQUIREMENTS OF FAA STANDARD FAA-STD-019 AND SPECIFICATION SECTION 26 05 26.
2. UNLESS OTHERWISE NOTED, FENCE AND ASSOCIATED GROUNDING AND BONDING COMPONENTS ARE EXISTING.
3. REFER TO CIVIL DRAWINGS FOR ALL NEW FENCING COMPONENTS AND RESPECTIVE LOCATIONS (I.E. VEHICLE GATE, FENCE FABRIC AND BARBED WIRE).
4. ALL FENCING COMPONENTS SHOWN HERE ARE DIAGRAMMATIC, FOR REFERENCE ONLY, AND INCLUDED TO IDENTIFY ALL NEW GROUNDING AND BONDING COMPONENTS TO BE PROVIDED. NEW GROUNDING AND BONDING EQUIPMENT SHALL CONNECT TO EXISTING FENCE GROUNDING SYSTEM AFTER NEW FENCING COMPONENTS ARE INSTALLED.

DETAIL KEYNOTES:

- 1 (N) COPPER-CABLE TO PIPE GALVANIZED CLAMP, BURNDY GAR SERIES.
- 2 (N) UL-LISTED, SPLIT-BOLT BRASS CONNECTOR.
- 3 (N) COPPER-BRAIDED CABLE, BURNDY. INSTALL STRAP SO IT WILL NOT LIMIT MOVEMENT OF GATE.
- 4 (E) EXOTHERMIC CONNECTION.
- 5 (E) COPPER-CLAD CABLE.
- 6 (N) MECHANICAL FENCE POST CONNECTOR WITH COMPRESSION TERMINATIONS, DMC POWER GC700 SERIES, OR EQUAL.
- 7 (N) COPPER-BRAIDED CABLE TO PIPE GALVANIZED CLAMP.
- 8 (N) STRANDED TINNED COPPER CONDUCTOR, SAME GAUGE AS (E) GROUND GRID, THREADED CONTINUOUSLY THROUGH FENCE FABRIC AND MECHANICALLY BONDED TO VERTICAL SUPPORT RAILS.
- 9 WHERE OCCURRING, BOND ACROSS TERMINATIONS IN BARBED WIRE USING A SHORT SECTION OF BARBED WIRE.
- 10 (N) EXOTHERMIC T-CONNECTION.
- 11 (N) TRAVELING STRANDED CONDUCTOR.

REFERENCE DRAWING:

C701: "FENCING AND GATE DETAILS"

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RUSSELVILLE				AR			
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PROJECT ENGINEER		MGR: ENGINEERING					
DESIGNED	MM	ISSUED BY		DATE	JCN	22002872	
DRAWN	RD	ENGINEERING SERVICES		DRAWING NO		REV	
CHECKED	MM			QXR - 22002872 - E602			



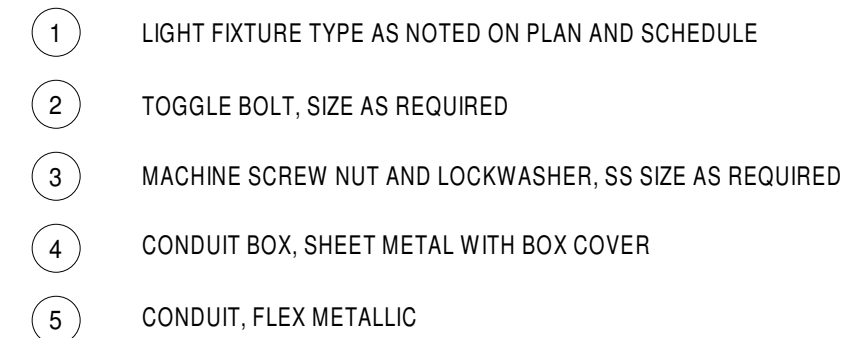


Diagram illustrating the installation of a cable tray system using a structural steel beam and a 1/2" all threaded rod.

Labels and components shown:

- STRUCTURAL STEEL
- BEAM CLAMP
- 1/2" ALL THREADED ROD
- 1/2" FLEX CONDUIT
- CONDUIT STRAPPED TO ROD
- LOOP STEEL CABLE OVER STRUCTURAL BEAM. PROVIDE BURNDY #YC10C10 AND SERVICE POST
- UT AND WASHER ON SIDES OF FIXTURE HOUSING (TYP)
- FIXTURE

Diagram illustrating the seismic bracing system for a fixture. The fixture is supported by a ceiling support grid. A 1/2" flexible steel conduit is connected to the fixture housing and extends to a J-box (8" max length). The fixture is secured to the ceiling support grid using seismic clips at four corners. A fixture support wire (TYP) is also shown.

Labels in the diagram include:

- FIXTURE SHALL HAVE TWO NO. 12 GAUGE WIRES CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE
- 1/2" FLEXIBLE STEEL CONDUIT TO J-BOX (8" MAX LENGTH)
- FIXTURE SUPPORT WIRE (TYP)
- FIXTURE
- CEILING SUPPORT GRID
- CEILING
- PROVIDE SEISMIC CLIPS, AT FOUR CORNERS

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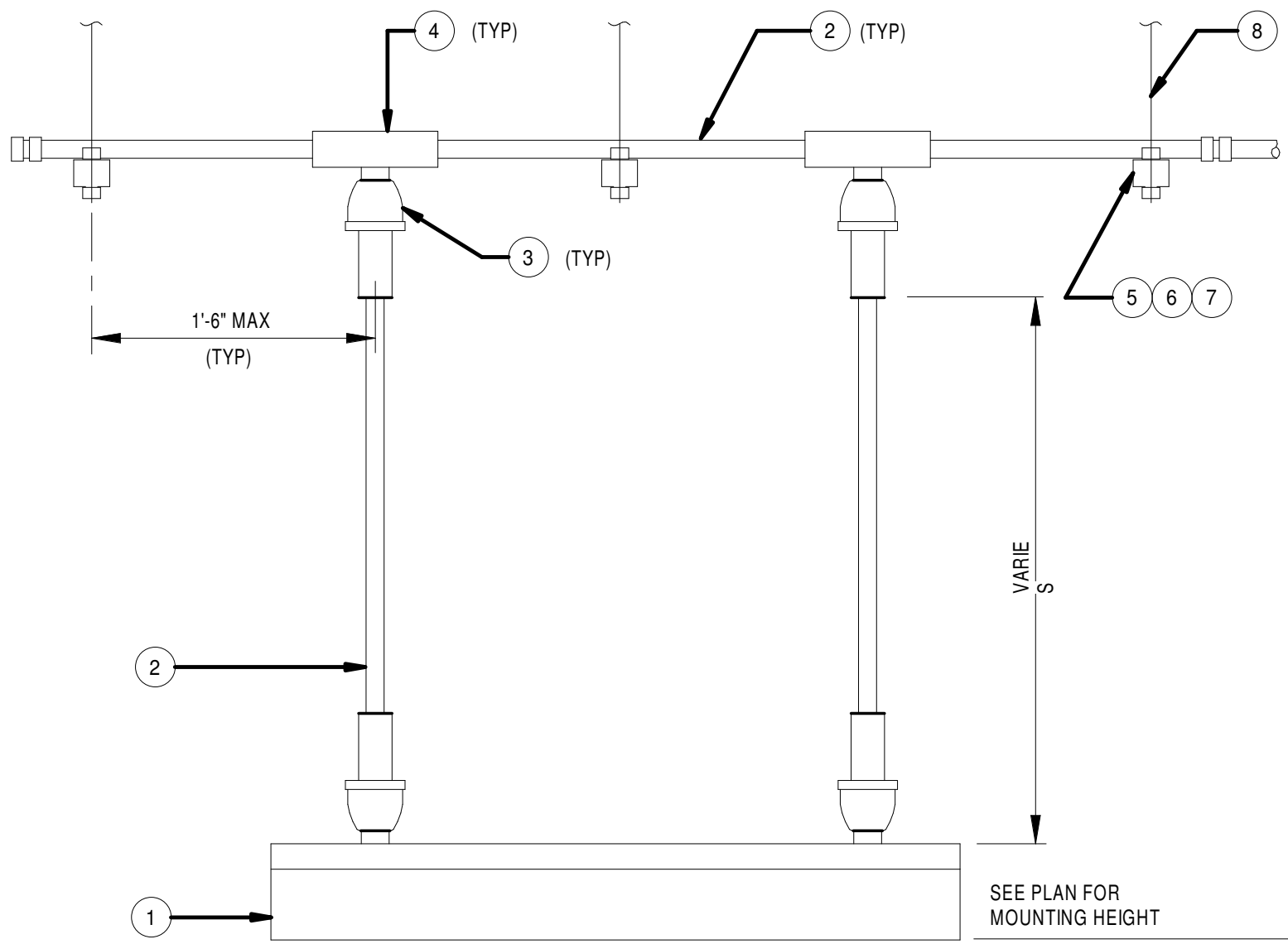
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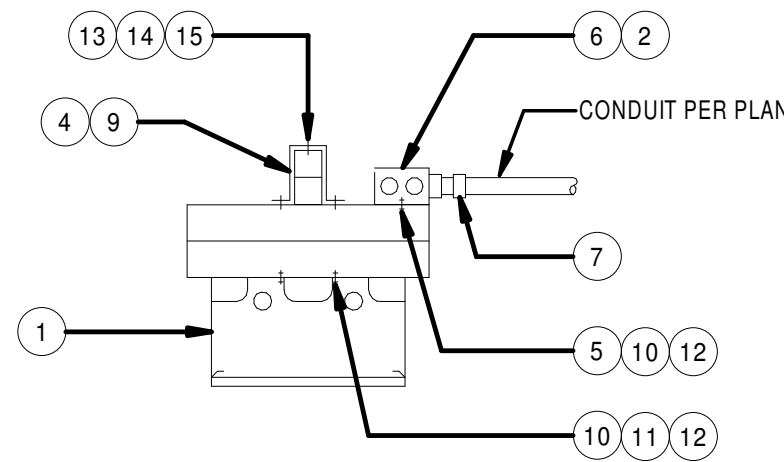
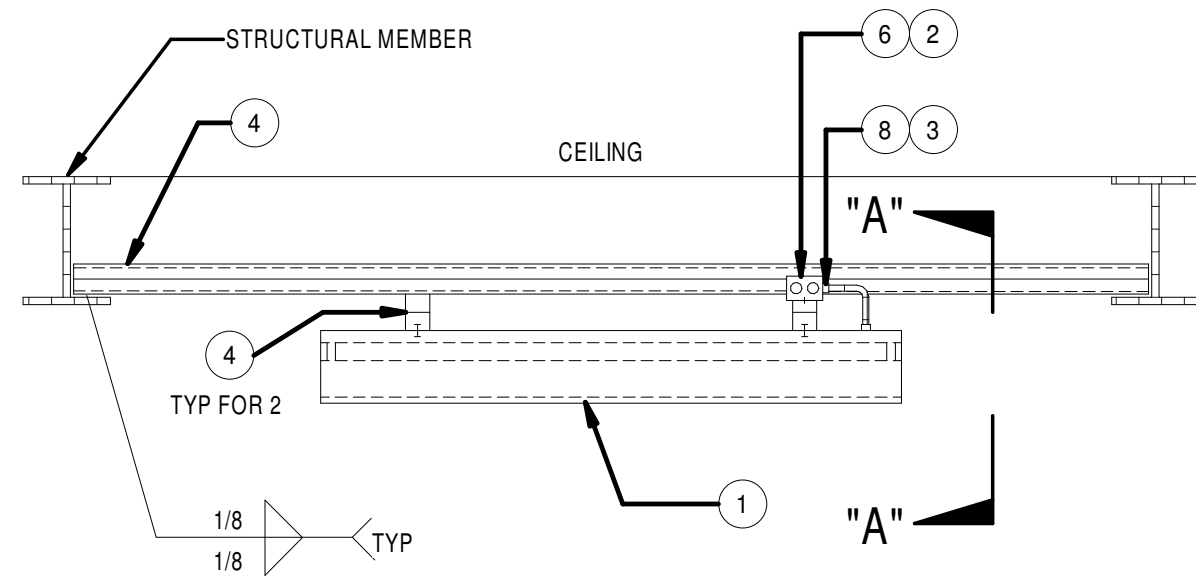


H  
G  
F  
E  
D  
C  
B  
A



- LEGEND:
- 1 LIGHTING FIXTURE - TYPE AS NOTED ON PLAN AND FIXTURE SCHEDULE
  - 2 CONDUIT, RGS 3/4" OR AS NOTED (LENGTH AS REQUIRED)
  - 3 FIXTURE HANGER, CROUSE HINDS TYPE UNJC
  - 4 CONDUIT "T" FITTING, FORM 8, COVER AND GASKET
  - 5 UNISTRUT CHANNEL 1-5/8" X 1-5/8"
  - 6 CONDUIT CLAMP, 3/4" (OR PER CONDUIT SIZE)
  - 7 (2) 1/2" DIA SQUARE NUT
  - 8 THREADED ROD 3/8" DIA

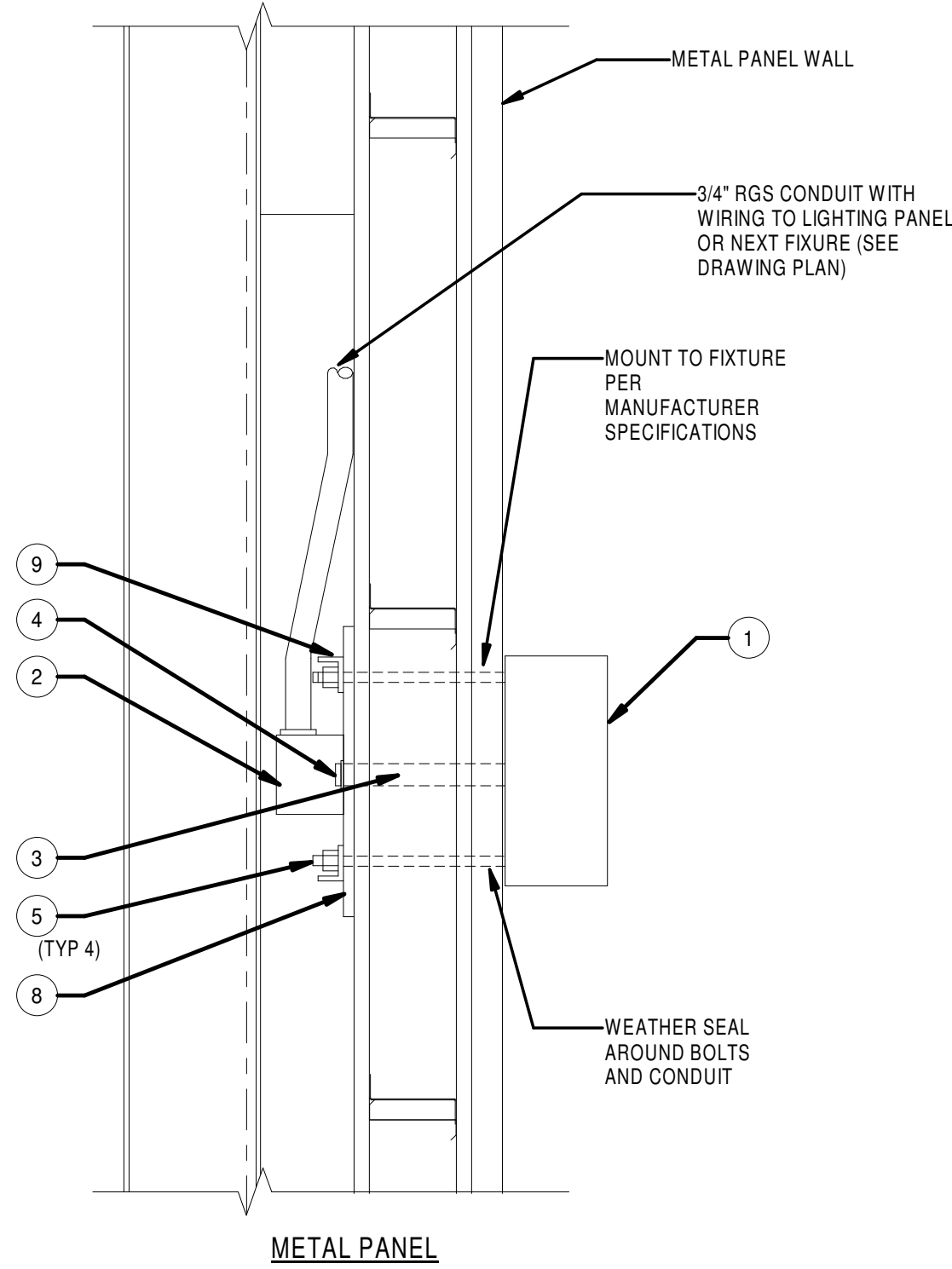
**E8** LED LIGHT FIXTURE - PENDANT MOUNTED (RIGID SUSPENSION)  
E604 SCALE:NOT TO SCALE



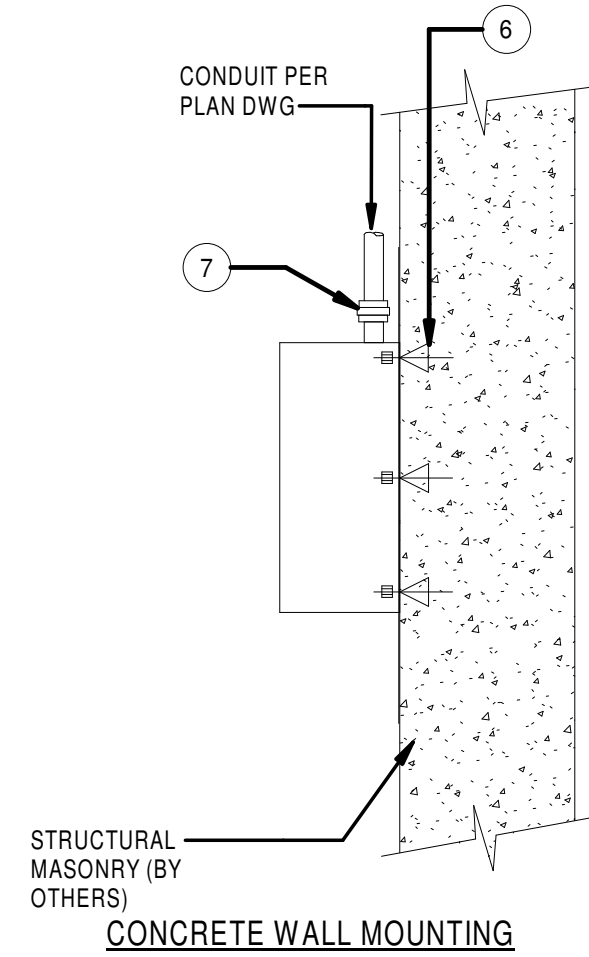
SECTION "A-A"  
OPTION - A

- LEGEND:
- 1 LIGHTING FIXTURE TYPE AS NOTED ON PLAN & LIGHTING SCHEDULE
  - 2 CONDUIT BOX, SHEET METAL WITH BOX COVER
  - 3 CONDUIT, FLEX METALLIC
  - 4 CHANNEL, SUPPORT, SIZE AS REQUIRED
  - 5 MACHINE SCREW, STAINLESS STEEL
  - 6 BOX COVER
  - 7 EMT COMPRESSION CONNECTOR
  - 8 STRAIGHT CONNECTOR
  - 9 U FITTING FOR CHANNEL SUPPORT
  - 10 NUT WITH SPRING, 1/4", STAINLESS STEEL
  - 11 BOLT, HEX HEAD, 1/4", STAINLESS STEEL
  - 12 LOCKWASHER, 1/4", STAINLESS STEEL
  - 13 NUT WITH SPRING, 1/2", STAINLESS STEEL
  - 14 BOLT, HEX HEAD, 1/2", STAINLESS STEEL
  - 15 LOCKWASHER, 1/2", STAINLESS STEEL

**A8** LED FIXTURE BELOW EXPOSED CEILING - OPTIONS "A"  
E604 SCALE:NOT TO SCALE



**E5** EXTERIOR LIGHT - WALL MOUNTED  
E604 SCALE:NOT TO SCALE



- LEGEND:
- 1 LIGHT FIXTURE - TYPE AS NOTED ON PLAN AND FIXTURE SCHEDULE
  - 2 J-BOX, 4" SQUARE X 2-1/8"D SHEET STEEL W/COVER
  - 3 3/4" DIA. THREADED NIPPLE (LENGTH TO SUIT)
  - 4 3/4" DIA. THREAD LOCKNUT AND INSULATED BUSHING
  - 5 SPACER, 1/2" RGS (LENGTH AS REQUIRED)
  - 6 CONCRETE ANCHOR, WITH BOLT, SPRING NUT, LOCKWASHER, GALVANIZED UNION
  - 7 1/4" THICK ALUMINUM PLATE, SIZE AS NEEDED
  - 8 1-1/2" X 1-1/2" STEEL ANGLE

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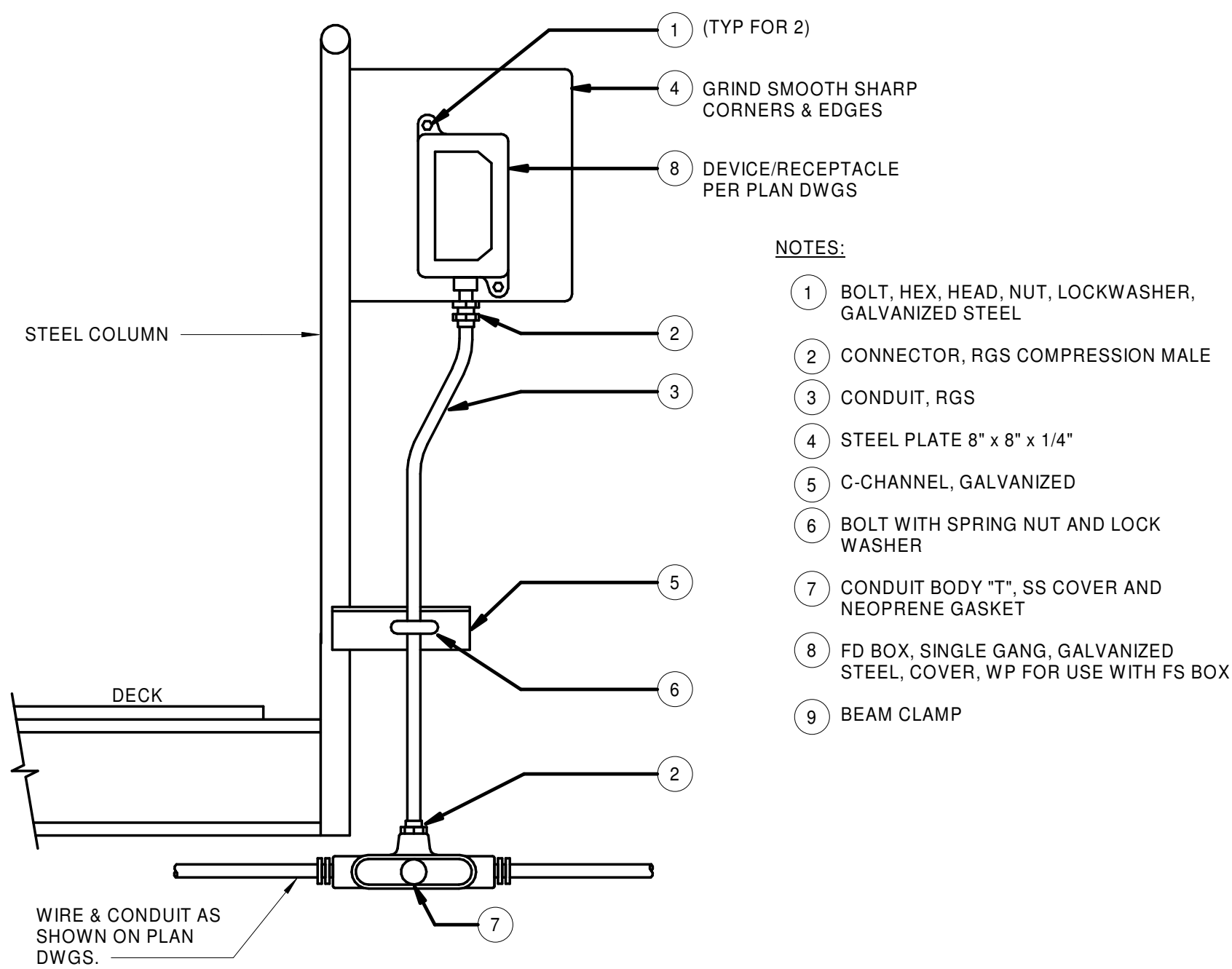
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ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DETAILS - LIGHTING					
RUSSELVILLE AR					
DESIGNED	MM	ISSUED BY	ENGINEERING SERVICES	DATE	22002872
DRAWN	RD	CHECKED	MM	DRAWING NO	QXR - 22002872 - E604

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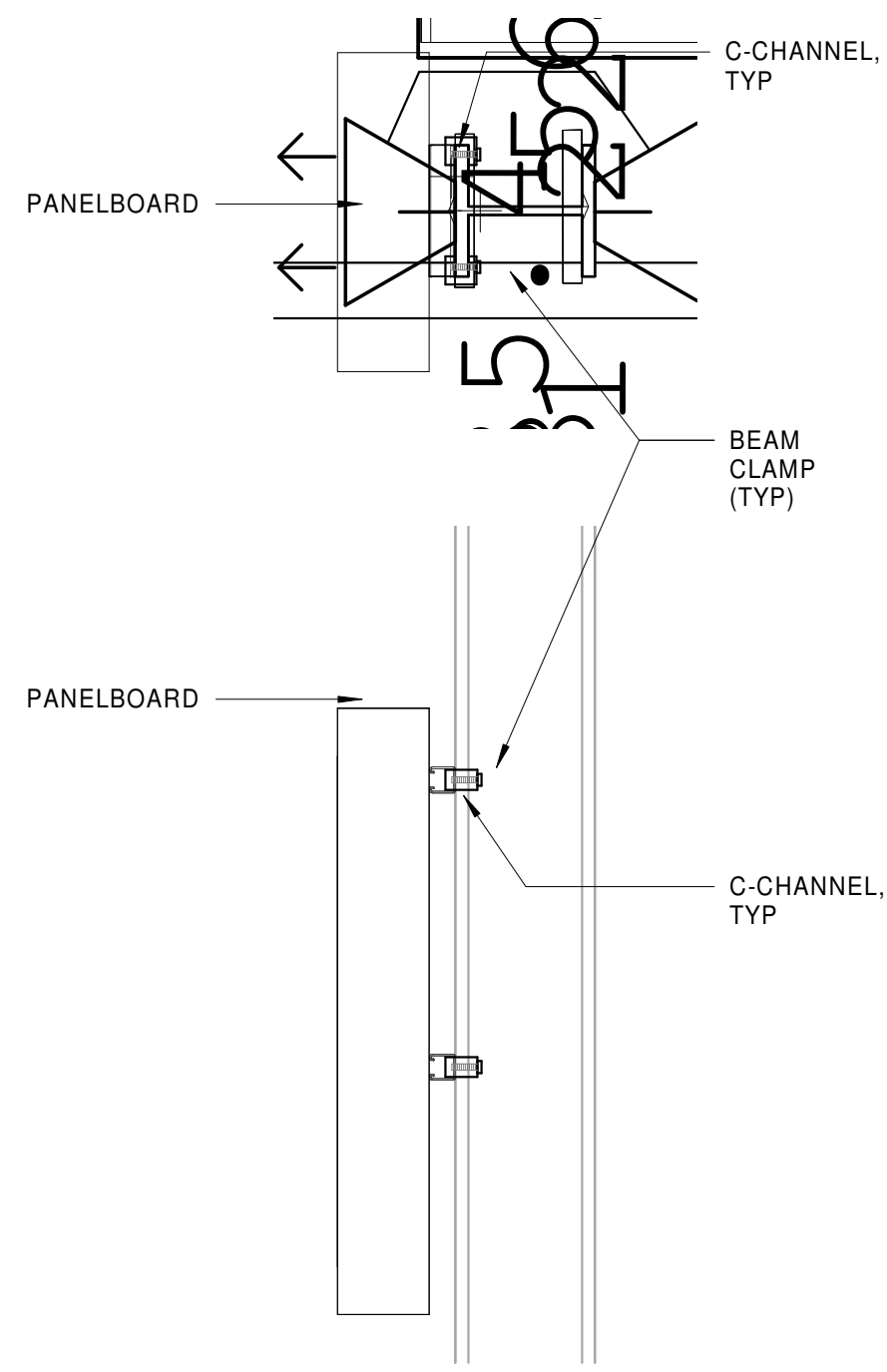
ISSUED FOR: 100% SUBMITTAL



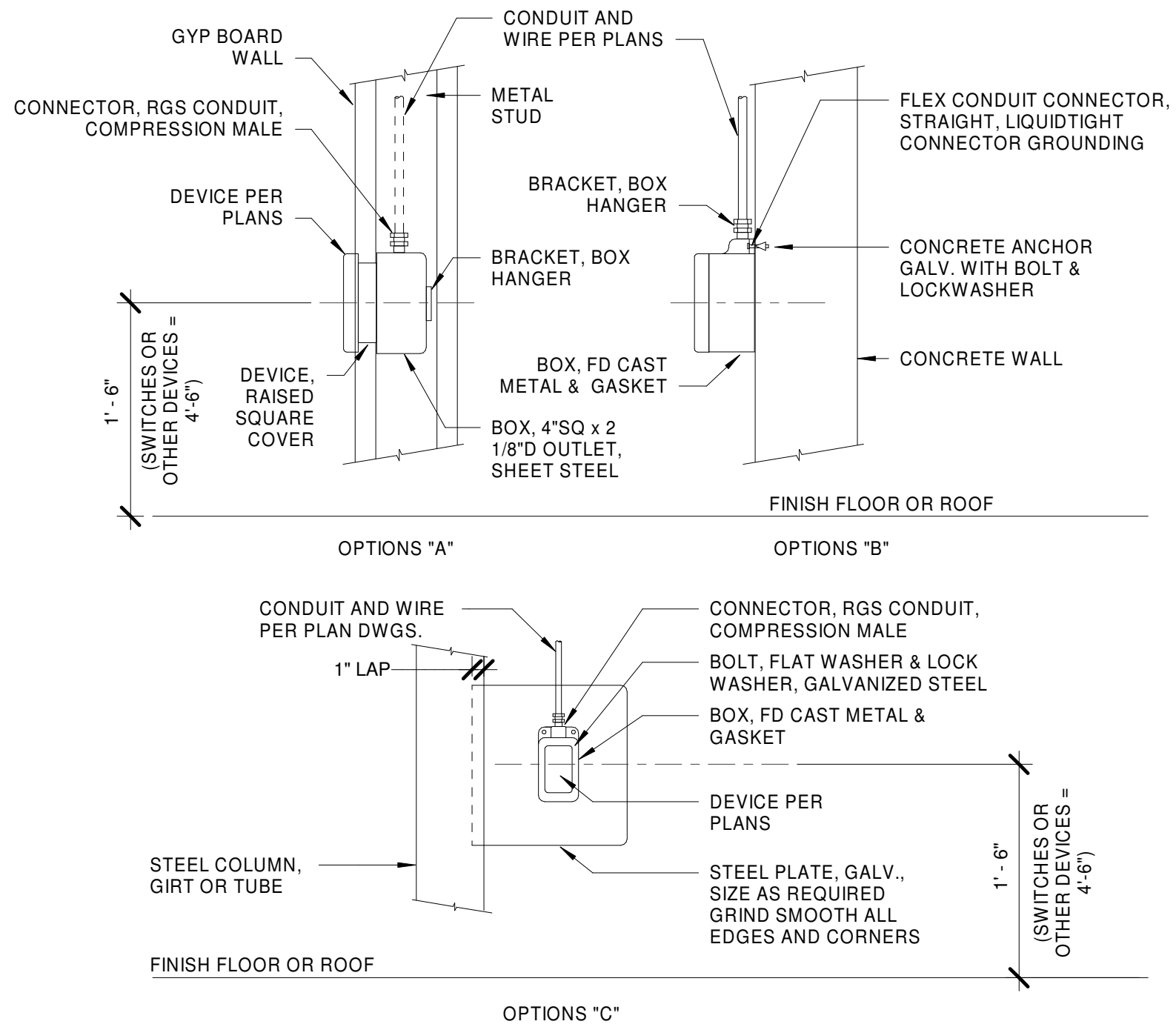
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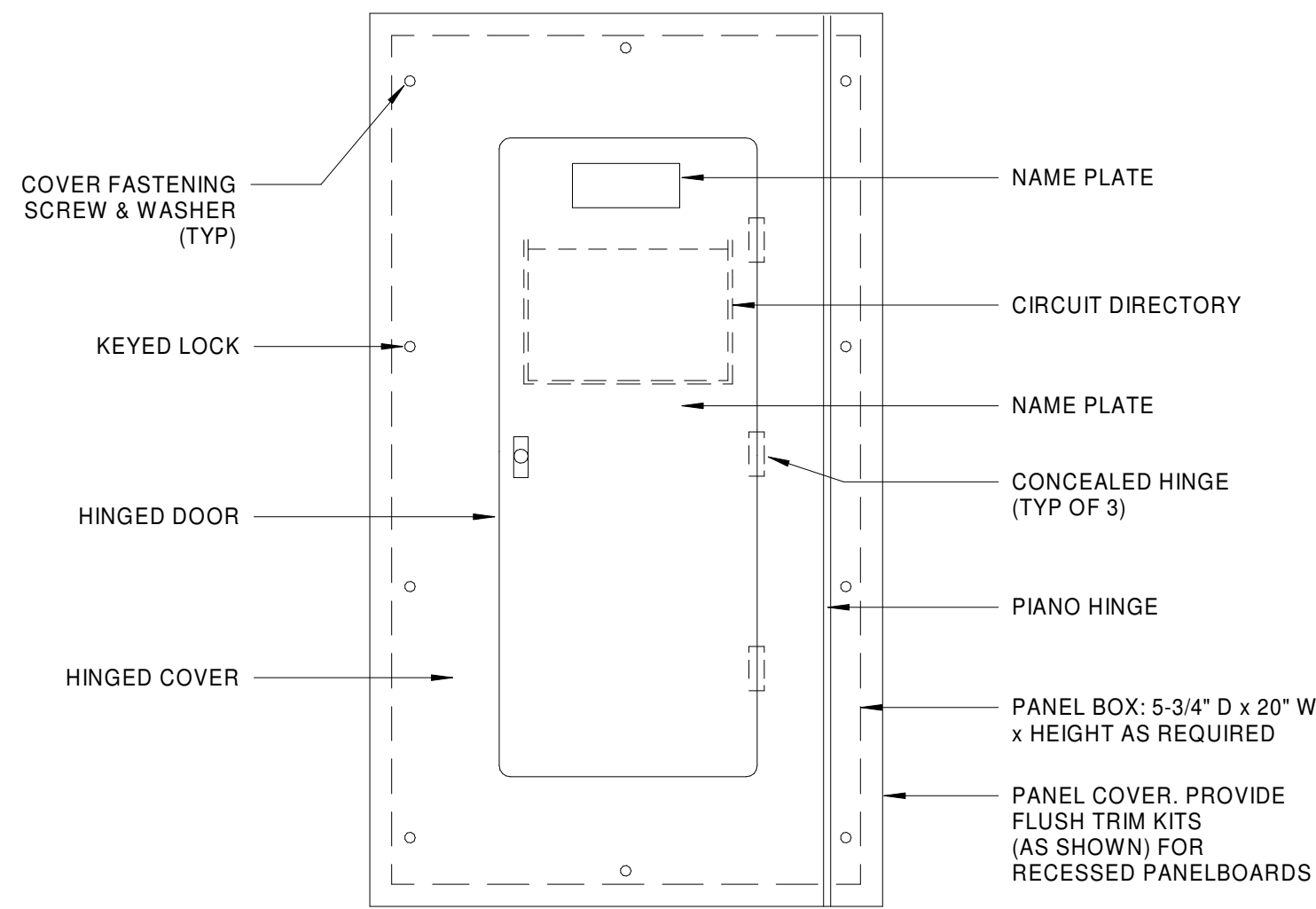
**E8** DEVICE/RECEPTACLE MOUNTING - STEEL COLUMN  
E605 SCALE:NOT TO SCALE



**A8** PANELBOARD MOUNTING - I-BEAM  
E605 SCALE:NOT TO SCALE



**E5** DEVICE/RECEPTACLE MOUNTING  
E605 SCALE:NOT TO SCALE



**A5** HINGED DOOR-IN-DOOR PANEL COVER  
E605 SCALE:NOT TO SCALE

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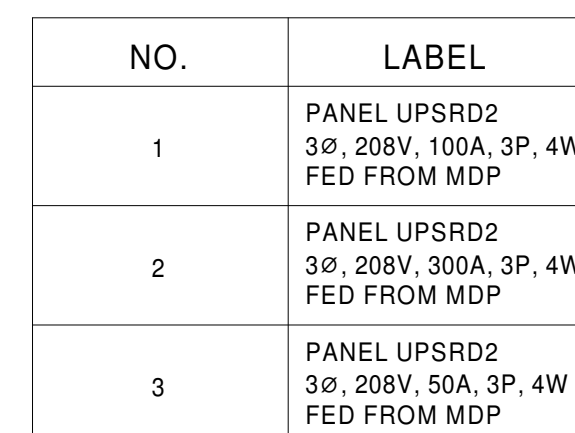
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ATO - TECHNICAL OPERATIONS				CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DETAILS - POWER							
RUSSELVILLE				AR			
REVIEWED BY		SUBMITTED BY			APPROVED BY		
		PROJECT ENGINEER			MGR: ENGINEERING		
DESIGNED		MM	ISSUED BY		DATE		
DRAWN		RD	ENGINEERING SERVICES		JCN		22002872
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					QXR - 22002872 - E605		

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- A6** FLOOR PEDESTAL DETAIL  
E606 SCALE:NOT TO SCALE

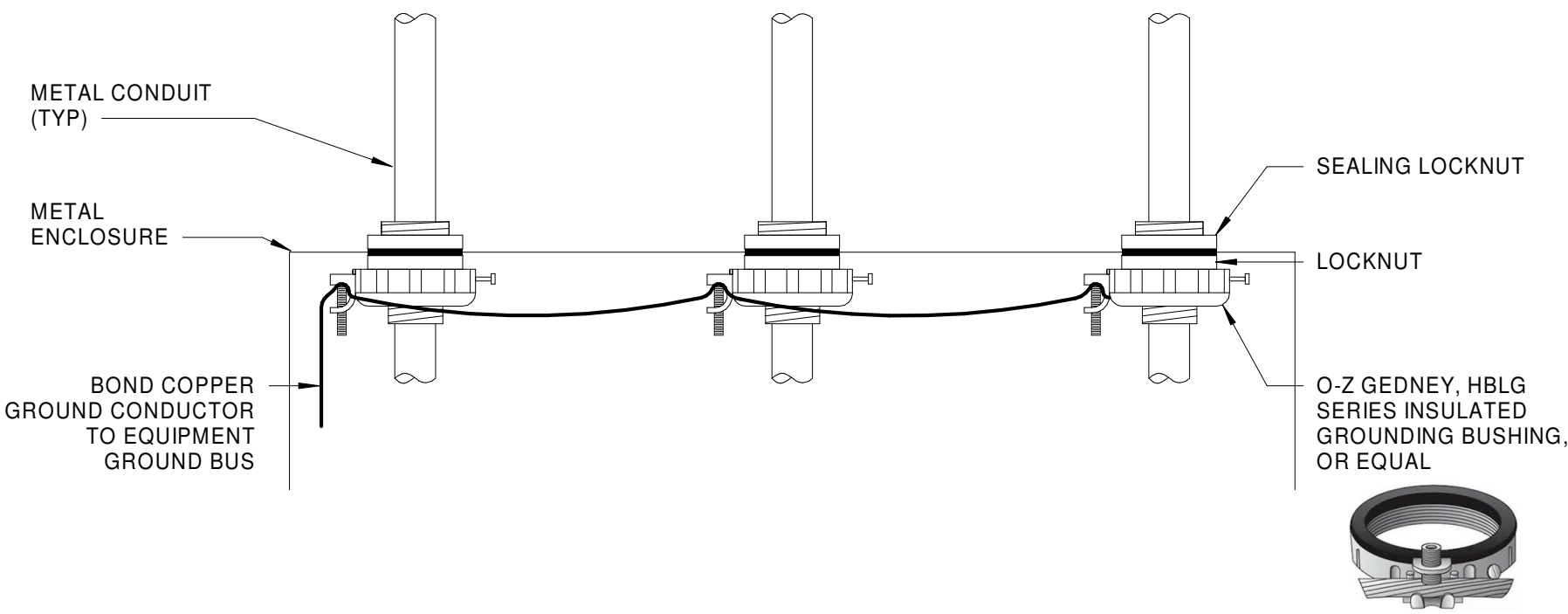
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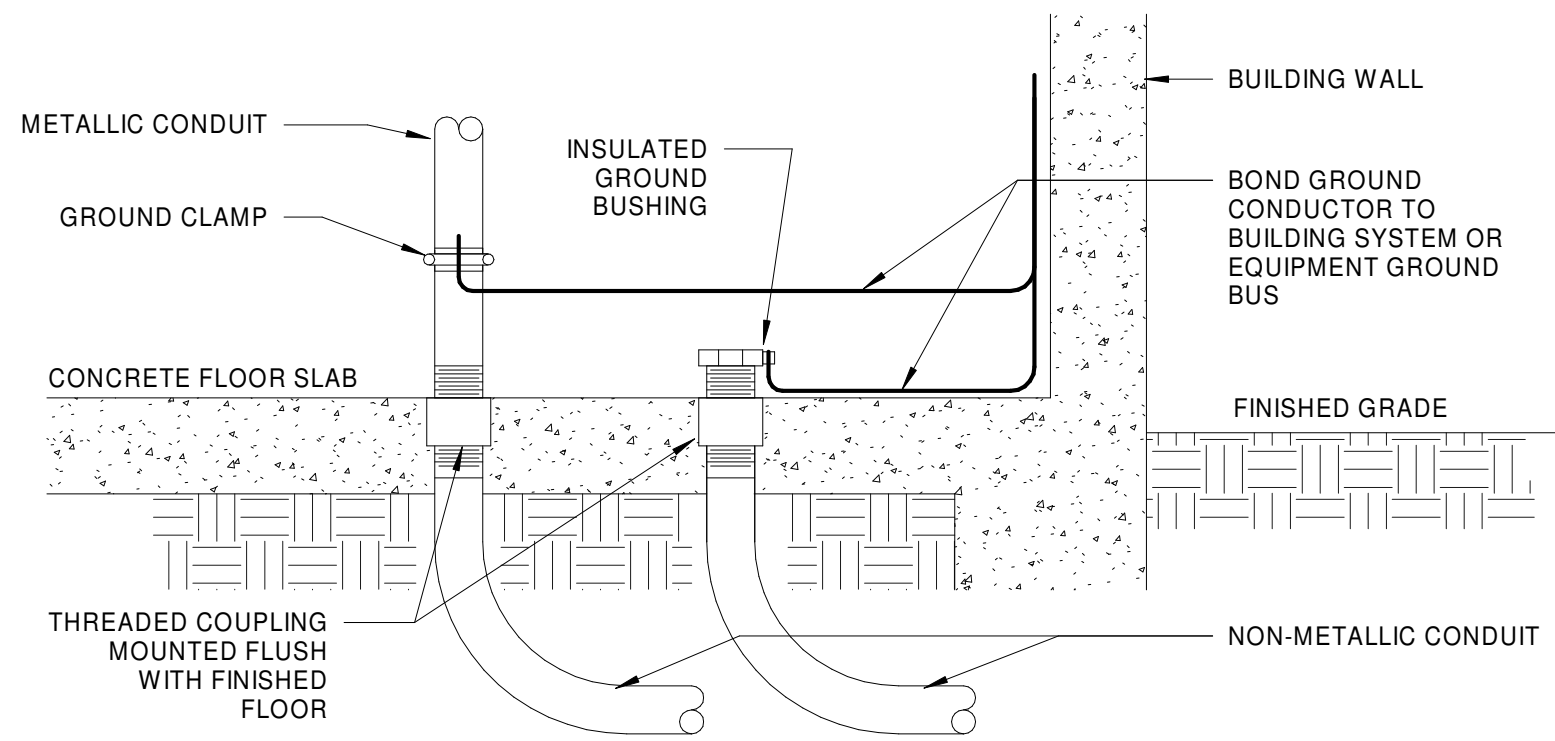
ISSUED FOR: 100% SUBMITTAL



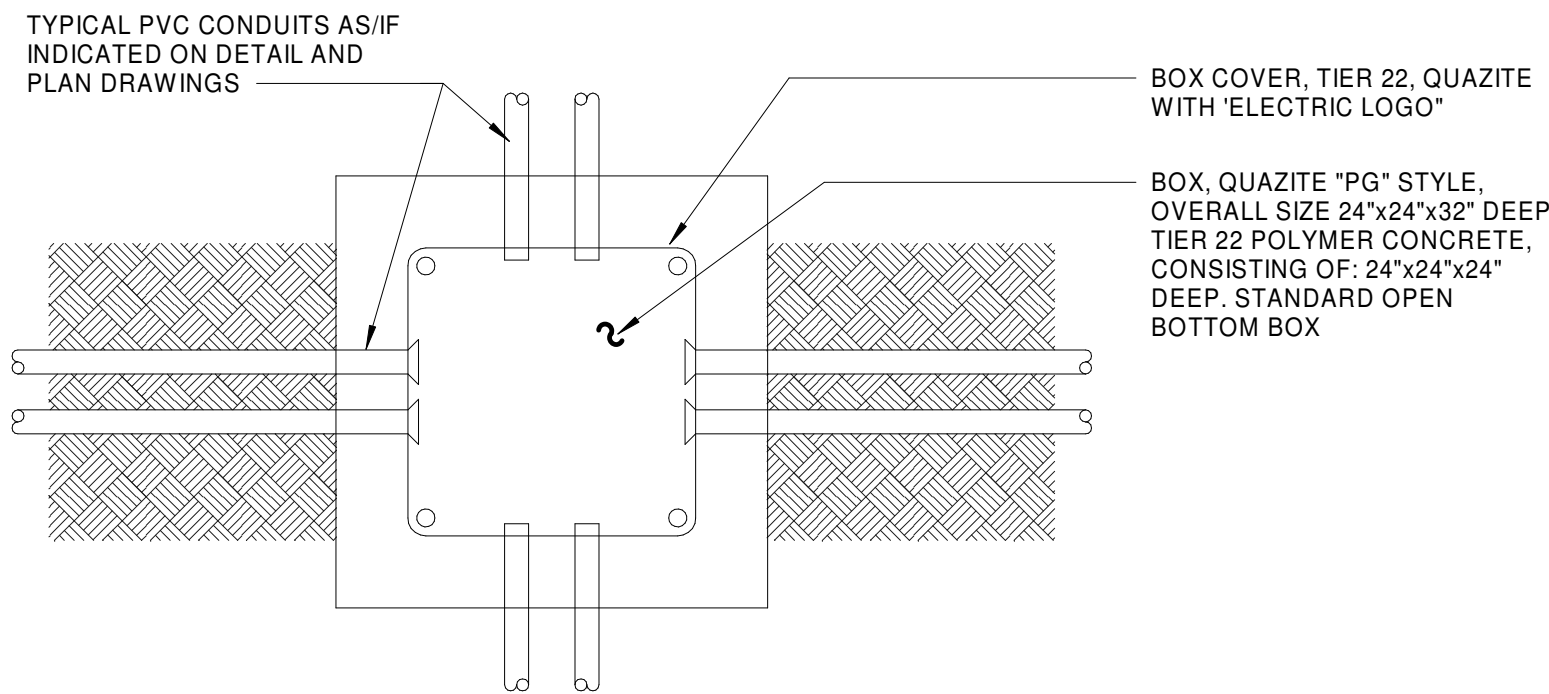
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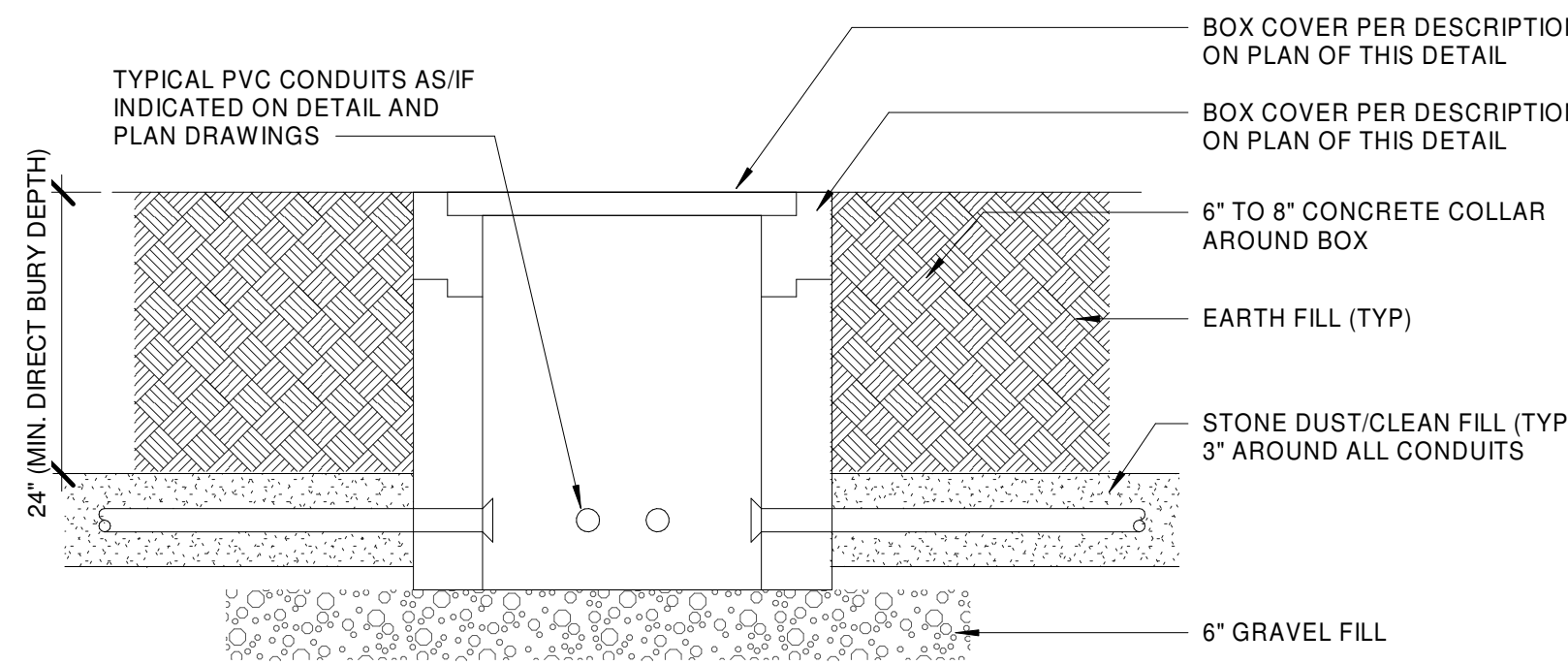
**F8**  
E607  
**METALLIC CONDUIT TERMINATION - CONDUIT GROUND TO METAL ENCLOSURE**  
SCALE: NOT TO SCALE



**C8**  
E607  
**METALLIC CONDUIT TERMINATION - CONDUIT GROUNDING AT PVC COUPLING**  
SCALE: NOT TO SCALE



**PLAN**



**SECTION**

**C5**  
E607  
**TYPICAL PULLBOX DETAIL**  
SCALE: NOT TO SCALE

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ARSR LONG RANGE RADAR SUSTAINMENT PROJECT DETAILS - PULL BOX					
RUSSELVILLE AR					
REVIEWED BY	SUBMITTED BY	APPROVED BY			
	DO NOT SIGN	DO NOT SIGN	DO NOT SIGN	DO NOT SIGN	DO NOT SIGN
DESIGNED	MM	ISSUED BY	ENGINEERING SERVICES	DATE	JCN 22002872
DRAWN	RD	DRAWING NO			
CHECKED	MM	QXR - 22002872 - E607			

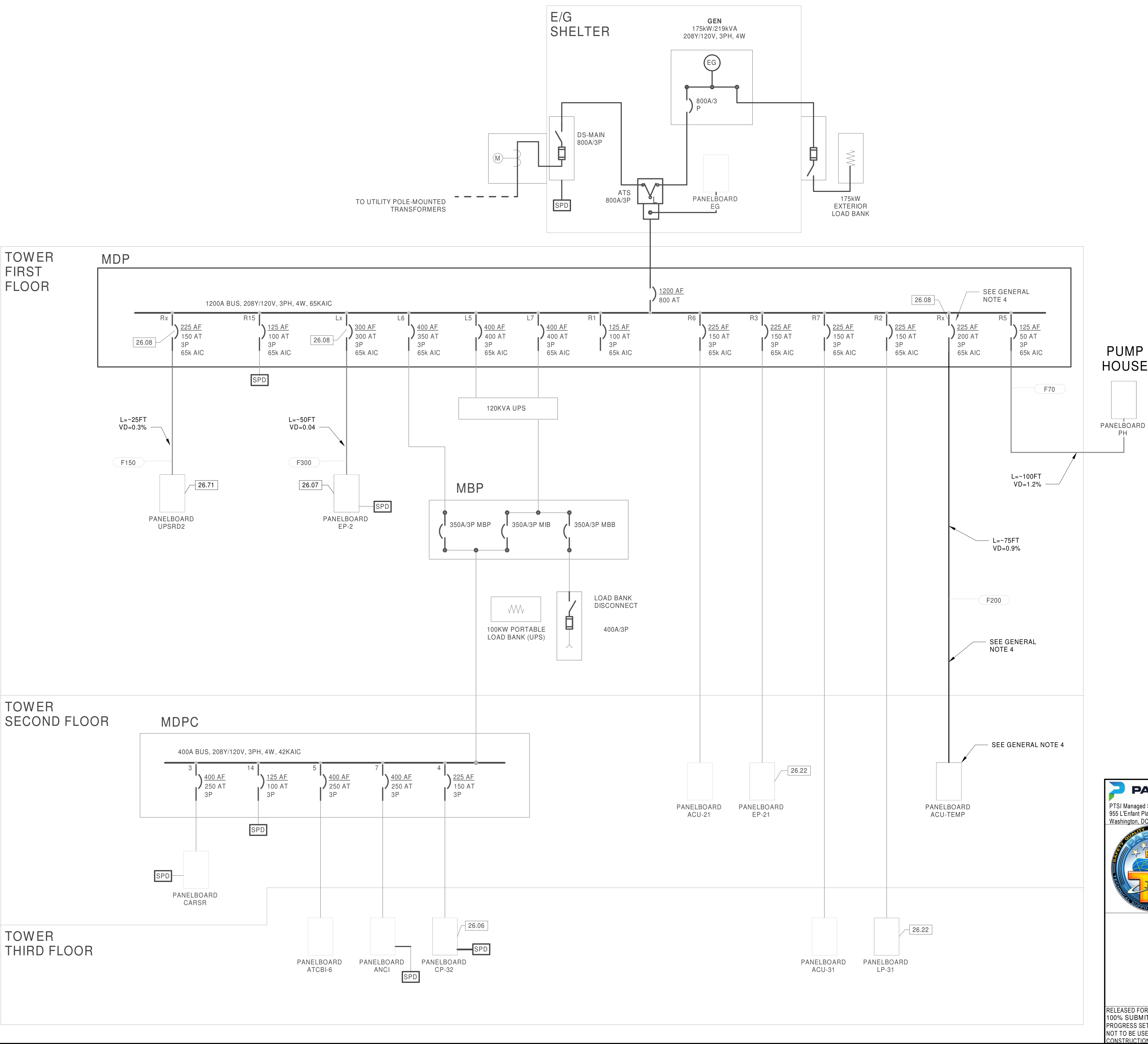
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## GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEC® AND FAA-C-1217H.
- ALL CIRCUIT BREAKERS SHOWN ON THIS SHEET ARE 3 POLE, UNLESS OTHERWISE NOTED.
- SPLICES ARE NOT ALLOWED ON FEEDER OR BRANCH CIRCUIT CONDUCTORS.
- MECHANICAL CONNECTION AND LOADING SEQUENCE:
  - COORDINATE WITH FAA AND MECHANICAL DRAWINGS.
  - SET (N) OCPD IN (E) 'MDP' AND INSTALL FEEDER TO LOCATION OF TEMPORARY PANELBOARD 'ACU-TEMP' AT SECOND FLOOR. AT (E) 'MDP', LABEL (N) OCPD AS 'ACU-TEMP'.
  - SET, GROUND AND ENERGIZE (N) PANELBOARD 'ACU-TEMP' AS SHOWN.
  - INSTALL AND ENERGIZE ALL (12) TEMPORARY FEEDER CONNECTION USING AC-TYPE CABLING SERVING TEMPORARY MECHANICAL UNITS. ROUTE CABLING AS REQUIRED THROUGH (E) BUILDING PENETRATIONS WHERE POSSIBLE.
  - DE-ENERGIZE AND DEMOLISH ALL (17) (E) PERMANENT MECHANICAL FEEDER CONNECTIONS AND UN-TERMINATE CONDUCTORS FROM (E) PANELBOARDS 'ACU-21' AND 'ACU-31' AS SHOWN ON DRAWINGS.
  - INSTALL AND ENERGIZE ALL (14) (N) PERMANENT MECHANICAL FEEDER CONNECTIONS AS SHOWN ON DRAWINGS.
  - DE-ENERGIZE AND DEMOLISH ALL (12) TEMPORARY FEEDERS, FITTINGS AND ANY ATTACHMENT PROVISIONS.
  - DE-ENERGIZE AND DEMOLISH PANELBOARD 'ACU-TEMP'.
  - DEMOLISH 'ACU-TEMP' FEEDER AND ALL FITTINGS AND ATTACHMENT PROVISIONS. PATCH ANY PENETRATIONS MADE.
  - RE-LABEL (N) OCPD AT 'MDP' AS "SPARE".
- REFER TO SHEET E802 FOR FEEDER SCHEDULE AND MDP LOAD VERIFICATION.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL FACILITIES SHOWN ON THIS DRAWING IN FADED, LIGHT GRAY LINES AND TEXT ARE EXISTING. SHOWN FOR REFERENCE AND SHALL REMAIN IN PLACE.

## CONSTRUCTION NOTES:

26.06	PROVIDE NEW PANELBOARD, 208V, 225A RATED, 3PH, 4W, 30 POLE WITH SPD.
26.07	PROVIDE NEW PANELBOARD, 208V, 300A RATED, 3PH, 4W, 30 POLE WITH SPD.
26.08	PROVIDE (N) 3 POLE CIRCUIT BREAKER, MATCH (E) AIC RATING.
26.22	PROVIDE CONDUIT SPLIT-BUSHING INSULATED GROUNDING BUSHING (BRIDGEPORT, SGBS-38740, OR EQUAL) TO ANY EXISTING CONDUIT TERMINATING AT THIS PANEL WHICH IS MISSING CONDUIT GROUNDING BUSHING. BOND BUSHING TO PANEL WITH BONDING CONDUCTOR.
26.71	PROVIDE NEW PANELBOARD, 208V, 225A RATED, 3PH, 4W, 30 POLE.

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ATO - TECHNICAL OPERATIONS				CENTRAL SERVICE AREA			
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT SINGLE LINE DIAGRAM							
RUSSELVILLE				AR			
REVIEWED BY	SUBMITTED BY		ISSUED BY		APPROVED BY		
PROJECT ENGINEER		MGR: ENGINEERING					
DESIGNED	MM	ISSUED BY		DATE	JCN	22002872	
DRAWN	RD	ENGINEERING SERVICES		DRAWING NO		REV	
CHECKED	MM			QXR - 22002872 - E801			

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## MDP - LOAD CAPACITY VERIFICATION

LOADS	MAIN OCPD/ BUS RATING	METERED LOAD	DELETED LOAD	ADDED LOAD	TOTAL LOAD
ALL NON-MECH (E) LOADS (NMEI) + (E) MECH	800A/ 1200A	156A*	0A	0A	156A
NMEL + (E) MECH + TEMP MECH	"		0A	292A	448A
NMEL - (E) MECH + TEMP MECH	"		130A	0A	318A
NMEL + TEMP MECH + (N) MECH	"		0A	239A	557A
NMEL - TEMP MECH + (N) MECH	"		292A	0A	265A
NMEL + (N) MECH	"		0A	0A	265A

\*MEASURED PEAK READING FROM TIME PERIOD: 12/4/2020 - 12/3/2021

## MECHANICAL LOADS

	CONNECTED		DEMAND			LOADING
EXISTING(E)	FLA	EXT	DF	A	EXT	ALL (E) MECHANICAL WILL BE REMOVED UNDER WORK OF THIS PROJECT
(8) CU (7) AHU (2) HC	48 36 16	384A 252A 32A	20% 20% 10%	9.6 7.2 1.6	77A 50A 3A	
Σ	668A		130A			
TEMP						
(10) EUH (2) EUH	17.2 60	172A 120A	100% 100%	172 120	172A 120A	ALL TEMPORARY MECHANICAL WILL BE OPERATIONAL ONLY DURING WORK OF THIS PROJECT
Σ	292A		292A			
NEW						
(6) CU (6) AHU (6) HC	80 30 18	KVA KVA KVA	70% 70% 50%	56 21 9	KVA KVA KVA	ALL NEW MECHANICAL WILL BE INSTALLED UNDER WORK OF THIS PROJECT
Σ	128	KVA 356 A	86 KVA 239 A			

## VOLTAGE DROP CALCULATIONS

NAME	AMPS	WIRE SIZE	LENGTH	VD	% VD
UPSRD2	150	#1/0	25	0.6	0.3%
EP-2	300	350KCM	50	0.8	0.4%
PH	70	#4	100	2.5	1.2%
ACU- TEMP	200	3/0	75	1.9	0.9%

## FEEDER SCHEDULE

AMPERE RATING	3-PHASE, 4-WIRE CIRCUITS				3-PHASE, 3-WIRE CIRCUITS			
	SYMBOL	PHASE AND NEUTRAL WIRES	GROUND WIRE	CONDUIT	SYMBOL	PHASE AND NEUTRAL WIRES	GROUND WIRE	CONDUIT
20	F20	4#12	1#12	3/4"	F20A	3#12	1#12	3/4"
30	F30	4#10	1#10	3/4"	F30A	3#10	1#10	3/4"
40	F40	4#8	1#10	3/4"	F40A	3#8	1#10	3/4"
55	F55	4#6	1#10	1 1/4"	F55A	3#6	1#10	1 1/4"
70	F70	4#4	1#8	1 1/2"	F70A	3#4	1#8	1 1/4"
100	F100	4#2	1#8	2"	F100A	3#2	1#8	1 1/2"
125	F125	4#1	1#6	2"	F125A	3#1	1#6	2"
150	F150	4#1/0	1#6	2 1/2"	F150A	3#1/0	1#6	2"
175	F175	4#2/0	1#6	2 1/2"	F175A	3#2/0	1#6	2"
200	F200	4#3/0	1#6	2 1/2"	F200A	3#3/0	1#4	2 1/2"
225	F225	4#4/0	1#4	2 1/2"	F225A	3#4/0	1#4	2 1/2"
250	F250	4 #250Kcmil	1#4	3"	F250A	3 #250Kcmil	1#4	3"
300	F300	4 #350Kcmil	1#4	3 1/2"	F300A	3 #350Kcmil	1#4	3"
350	F350	4 #500Kcmil	1#2	4"	F350A	3 #500Kcmil	1#2	3 1/2"
400	F400	4 #500Kcmil	1#2	4"	F400A	3 #500Kcmil	1#2	3 1/2"
450	F450	2 SETS OF 4#4/0, 1 #2G - 2 1/2"C			F450A	2 SETS OF 3#4/0, 1 #2G - 2 1/2"C		
500	F500	2 SETS OF 4#250Kcmil, 1 #2G - 3"C			F500A	2 SETS OF 3#250Kcmil, 1 #2G - 3"C		
550	F550	2 SETS OF 4#300Kcmil, 1 #1G - 3"C			F550A	2 SETS OF 3#300Kcmil, 1 #1G - 3"C		
600	F600	2 SETS OF 4#350Kcmil, 1 #1G - 3 1/2"C			F600A	2 SETS OF 3#350Kcmil, 1 #1G - 3"C		
650	F650	2 SETS OF 4#400, 1 #1/0G - 3 1/2"C			F650A	2 SETS OF 3#400, 1 #1/0G - 3"C		
700	F700	2 SETS OF 4#500Kcmil, 1 #1/0G - 4"C			F700A	2 SETS OF 3#500Kcmil, 1 #1/0G - 3 1/2"C		
800	F800	2 SETS OF 4#500Kcmil, 1 #1/0G - 4"C			F800A	2 SETS OF 3#500Kcmil, 1 #1/0G - 3 1/2"C		
900	F900	3 SETS OF 4#350Kcmil, 1 #2/0G - 3 1/2"C			F900A	3 SETS OF 3#350Kcmil, 1 #2/0G - 3"C		
1000	F1000	3 SETS OF 4#400Kcmil, 1 #2/0G - 3 1/2"C			F1000A	3 SETS OF 3#400Kcmil, 1 #2/0G - 3"C		
1200	F1200	4 SETS OF 4#350Kcmil, 1 #3/0G - 3 1/2"C			F1200A	4 SETS OF 3#350Kcmil, 1 #3/0G - 3"C		
1350	F1350	4 SETS OF 4#500Kcmil, 1 #4/0G - 4"C			F1350A	4 SETS OF 3#500Kcmil, 1 #4/0G - 3 1/2"C		
1400	F1400	4 SETS OF 4#500Kcmil, 1 #4/0G - 4"C			F1400A	5 SETS OF 3#500Kcmil, 1 #4/0G - 3 1/2"C		
1600	F1600	5 SETS OF 4#400Kcmil, 1 #4/0G - 3 1/2"C			F1600A	5 SETS OF 3#400Kcmil, 1 #4/0G - 3"C		
2000	F2000	6 SETS OF 4#400Kcmil, 1 #250Kcmil G - 3 1/2"C			F2000A	6 SETS OF 3#400Kcmil, 1 #250Kcmil G - 3"C		

1. ALL ABOVE GROUND CONDUCTOR INSULATION SHALL BE THHN/THWN, 90/75 DEGREES CELSIUS, RESPECTIVELY, 600V COPPER, UNLESS OTHERWISE NOTED.
2. ALL UNDERGROUND OR WET LOCATION CONDUCTOR INSULATION SHALL BE THWN-2, 90 DEGREES CELSIUS, 600V COPPER, UNLESS OTHERWISE NOTED.
3. FEEDER AMPACITIES LISTED ABOVE ARE BASED ON AN AMBIENT TEMPERATURE OF 30 DEGREES CELSIUS. FOR AMBIENT TEMPERATURES OTHER THAN 30 DEGREES CELSIUS, THE CORRECTION FACTORS OF NEC TABLE 310.16 SHALL BE APPLIED.

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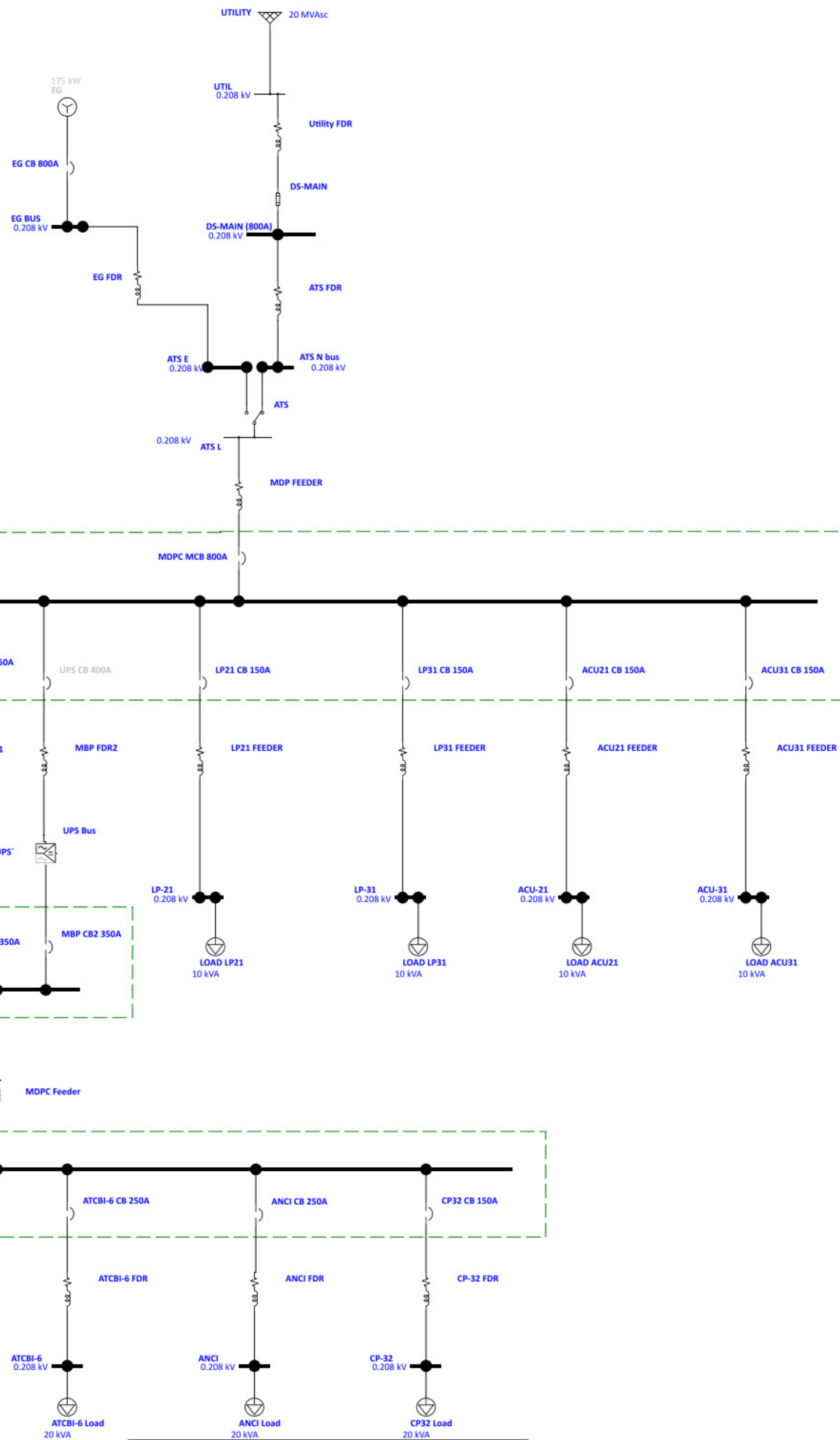
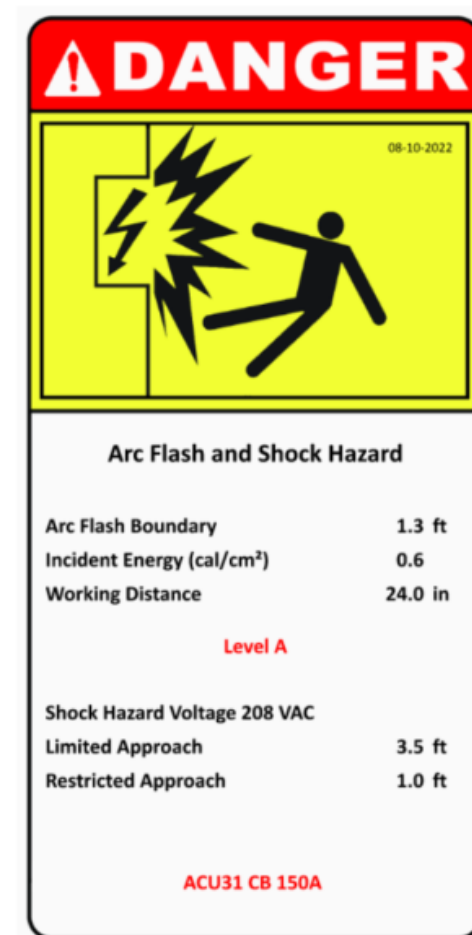
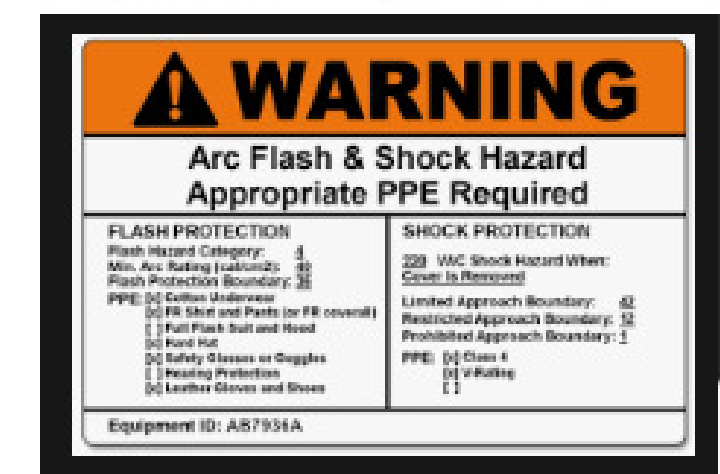
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ARSR  LONG RANGE RADAR SUSTAINMENT PROJECT SINGLE LINE DIAGRAM SCHEDULES									
RUSSELVILLE									AR
REVIEWED BY		SUBMITTED BY				APPROVED BY			
		DO NOT SIGN				DO NOT SIGN			
PROJECT ENGINEER						MGR: ENGINEERING			
DESIGNED		MM	ISSUED BY			DATE		JCN	22002872
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### (E) ARC FLASH EQUIPMENT LABEL EXAMPLES

(N) ARC FLASH  
EQUIPMENT LABEL EXAMPLE

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SCALE: 12" = 1'-0"

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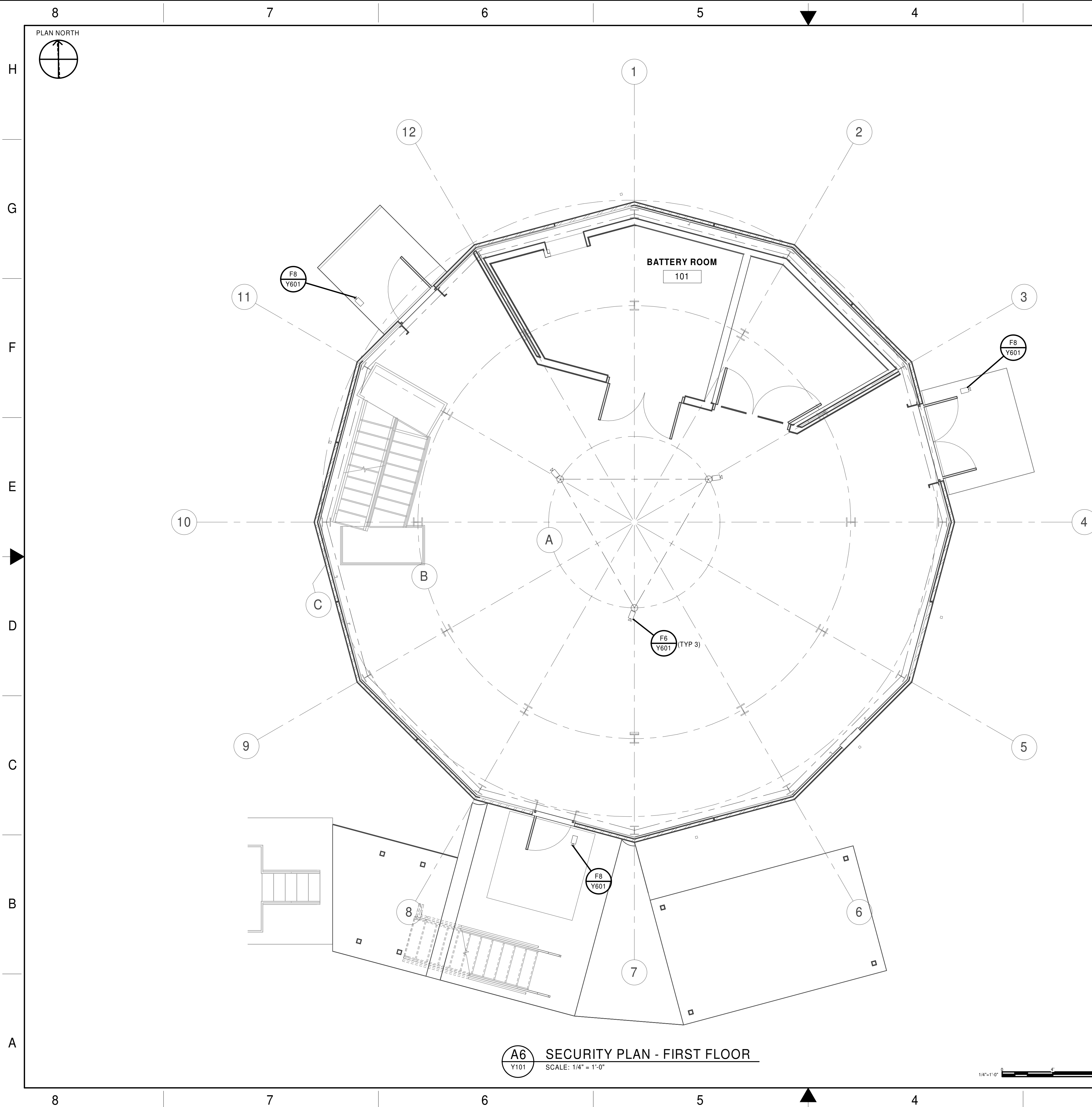
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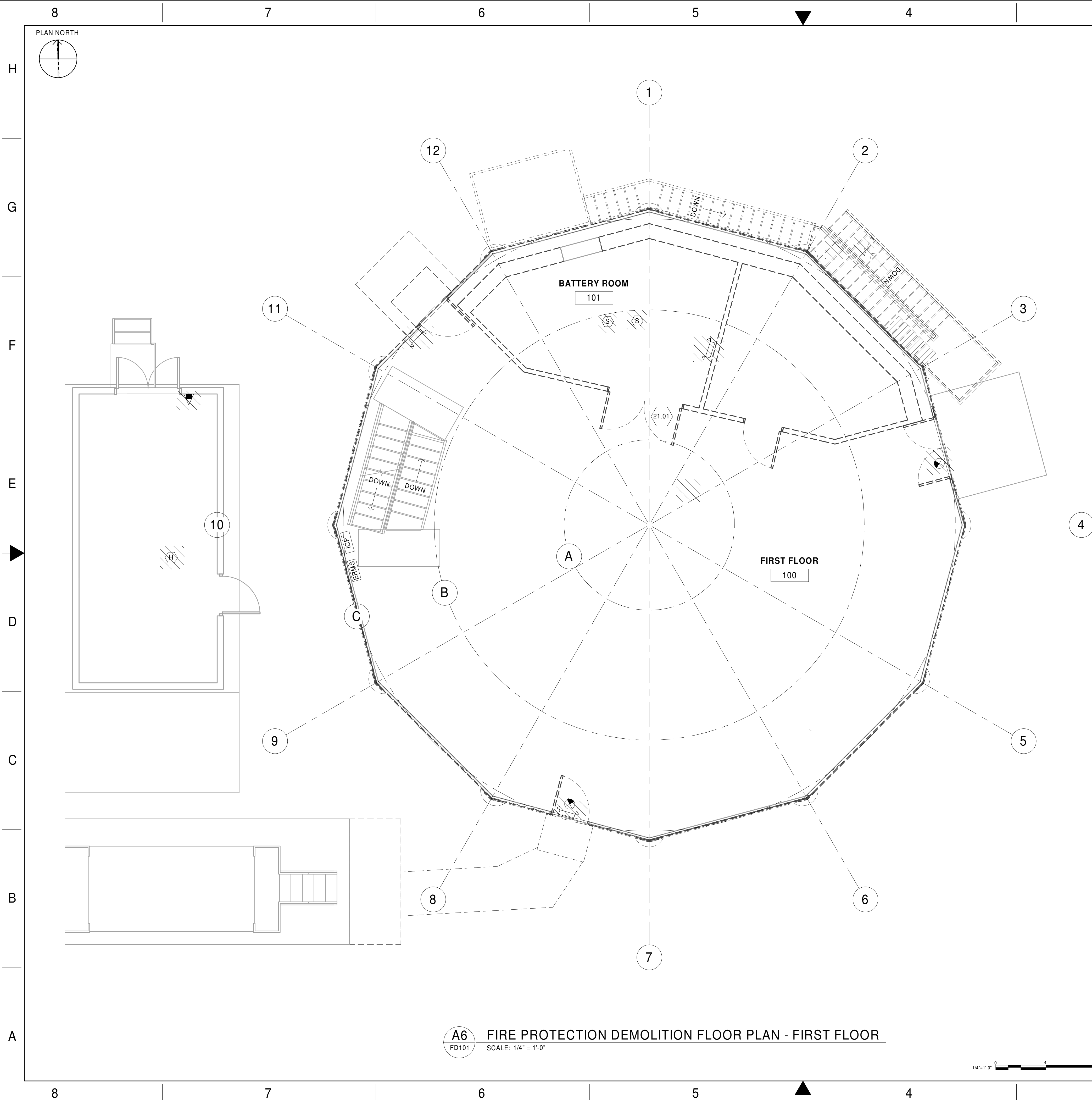












## GENERAL NOTES

1. EXISTING FIRE DETECTORS ARE CONNECTED TO AN INTRUSION CONTROL PANEL. EXISTING PANEL AND THE INTRUSION DETECTORS SHALL REMAIN IN PLACE. EXISTING CABLING FOR INTRUSION DETECTION AND FIRE DETECTION USE THE SAME RACEWAY. CABLES CONNECTED TO EXISTING FIRE DETECTORS SHALL BE REMOVED. EXISTING RACEWAY AND CABLING FOR INTRUSION DETECTORS SHALL REMAIN IN PLACE.
2. EXISTING FIRE DETECTORS SHALL REMAIN IN OPERATION UNTIL NEW FIRE ALARM SYSTEM HAS BEEN COMMISSIONED.
3. EXISTING RACEWAY AND BACKBOXES THAT ONLY CONTAIN FIRE DETECTION CABLING SHALL BE REMOVED IN ADDITION TO FIRE DETECTORS.
4. IN INSTANCES WHERE EXISTING BACKBOXES OF FIRE DETECTORS ARE TO REMAIN, A BLANK COVER SHALL BE INSTALLED.
5. NEW PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED PRIOR TO REMOVAL OF EXISTING EXTINGUISHERS, OR THEY SHALL BE INSTALLED IMMEDIATELY UPON REMOVAL OF EXISTING EXTINGUISHERS.
6. ITEMS THAT HAVE A CROSS-HATCH INDICATE FIRE PROTECTION ITEMS WHICH SHALL BE REMOVED AND RETURNED TO THE OWNER.

## KEYNOTES

## LEGEND

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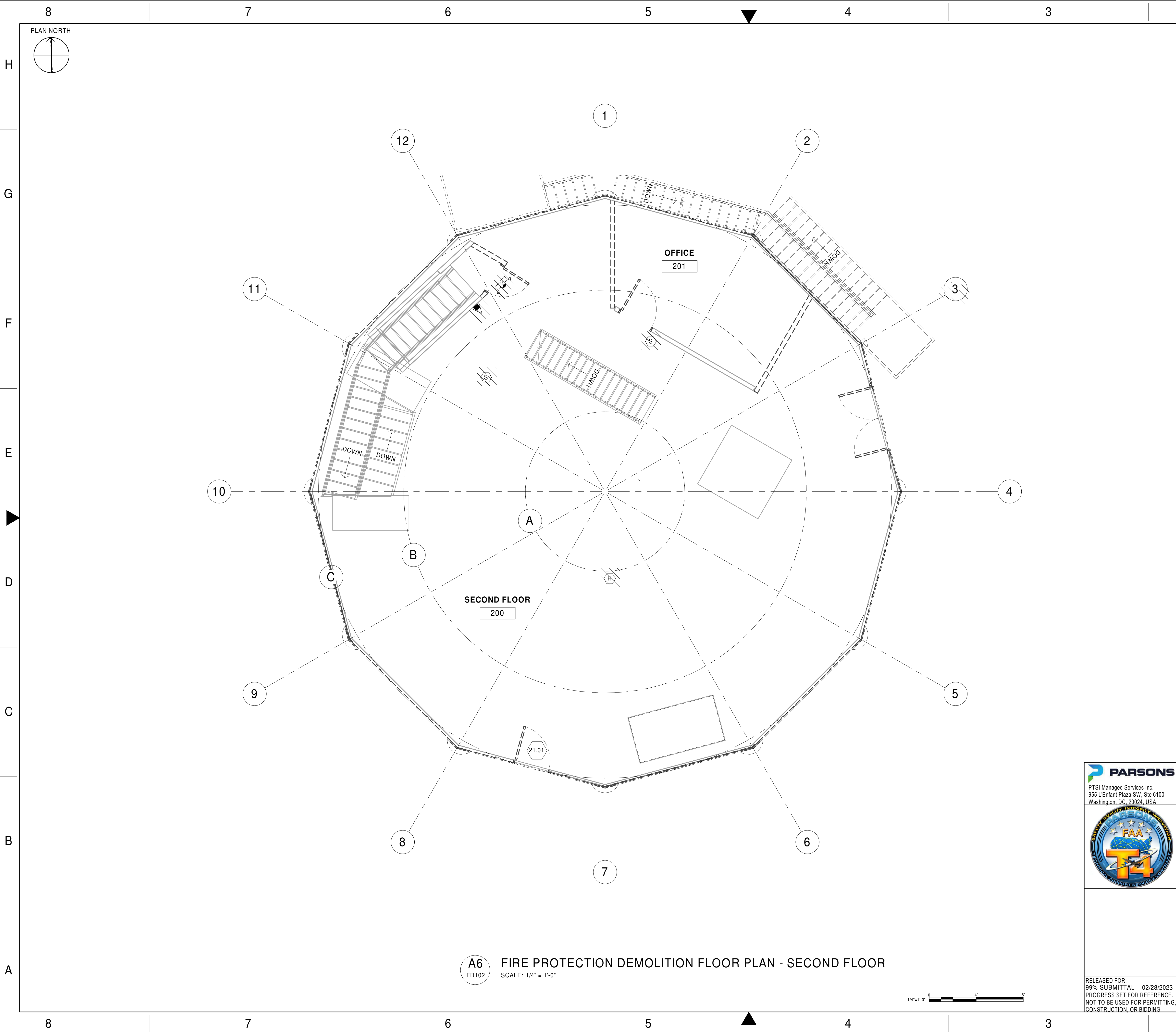
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## GENERAL NOTES

- EXISTING FIRE DETECTORS ARE CONNECTED TO AN INTRUSION CONTROL PANEL. EXISTING PANEL AND THE INTRUSION DETECTORS SHALL REMAIN IN PLACE. EXISTING CABLING FOR INTRUSION DETECTION AND FIRE DETECTION USE THE SAME RACEWAY. CABLES CONNECTED TO EXISTING FIRE DETECTORS SHALL BE REMOVED. EXISTING RACEWAY AND CABLING FOR INTRUSION DETECTORS SHALL REMAIN IN PLACE.
- EXISTING FIRE DETECTORS SHALL REMAIN IN OPERATION UNTIL NEW FIRE ALARM SYSTEM HAS BEEN COMMISSIONED.
- EXISTING RACEWAY AND BACKBOXES THAT ONLY CONTAIN FIRE DETECTION CABLING SHALL BE REMOVED IN ADDITION TO FIRE DETECTORS.
- IN INSTANCES WHERE EXISTING BACKBOXES OF FIRE DETECTORS ARE TO REMAIN, A BLANK COVER SHALL BE INSTALLED.
- NEW PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED PRIOR TO REMOVAL OF EXISTING EXTINGUISHERS, OR THEY SHALL BE INSTALLED IMMEDIATELY UPON REMOVAL OF EXISTING EXTINGUISHERS.
- ITEMS THAT HAVE A CROSS-HATCH INDICATE FIRE PROTECTION ITEMS WHICH SHALL BE REMOVED AND RETURNED TO THE OWNER.

## KEYNOTES

## LEGEND

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Washington, DC, 20024, USA



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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION					
ATO - TECHNICAL OPERATIONS			CENTRAL SERVICE AREA		
ARSR LONG RANGE RADAR SUSTAINMENT PROJECT FIRE PROTECTION DEMOLITION FLOOR PLAN - SECOND FLOOR					
RUSSELLVILLE			AR		
REVIEWED BY	SUBMITTED BY		APPROVED BY		
	PROJECT ENGINEER		MGR: ENGINEERING		
	DESIGNED	AB	ISSUED BY	DATE	JCN
	DRAWN	AB	ENGINEERING SERVICES	DRAWING NO	22002872
	CHECKED	CMP		QXR - 22002872 - FD102	
					REV

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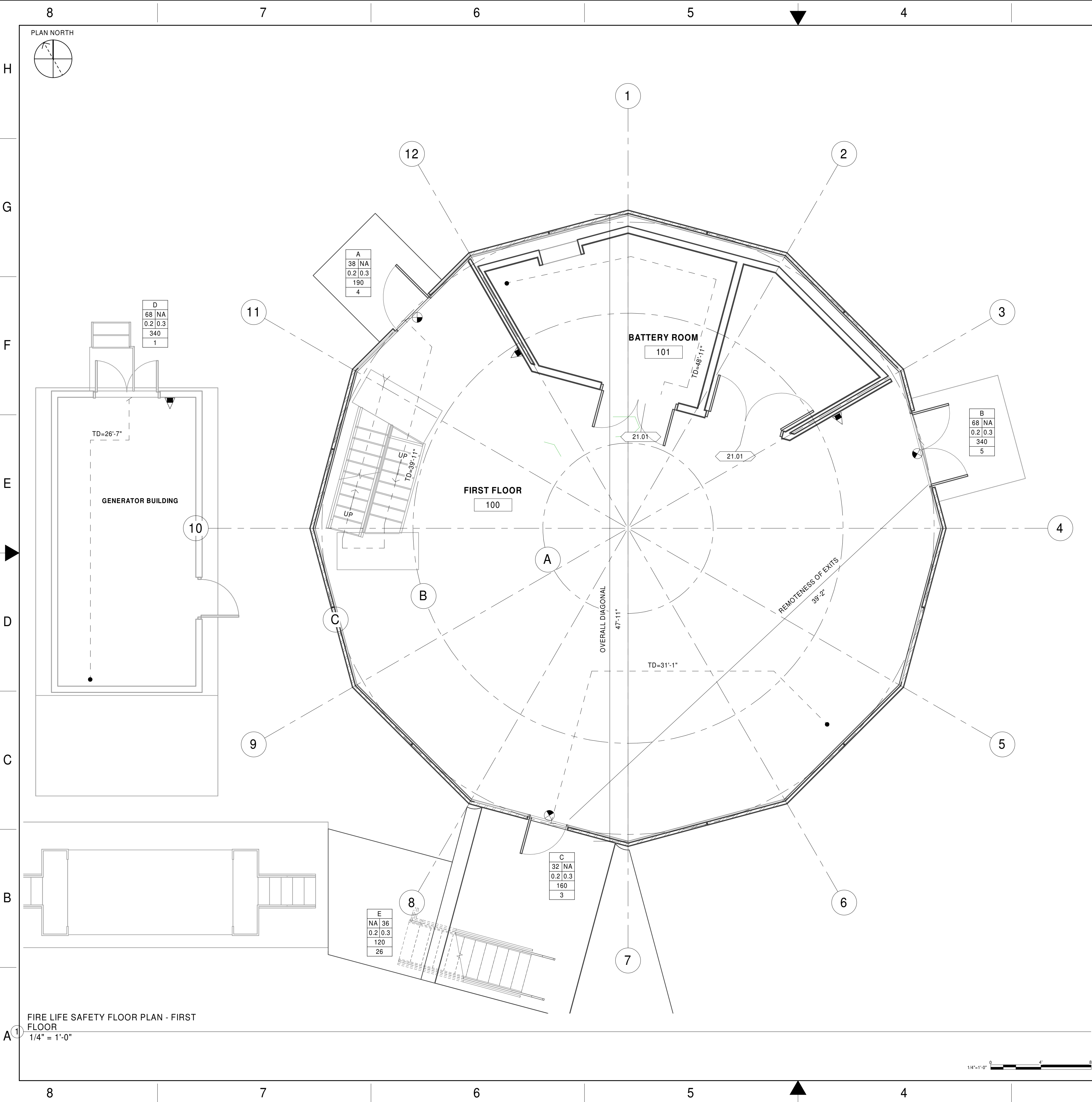
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## GENERAL NOTES

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  - ACTUAL OCCUPANT LOAD FOR EQUIPMENT AREA IS **13 OCCUPANTS. BASED ON 1,922 GROSS SF** AND A LOAD FACTOR OF 150 SF/OCCUPANT.
  - ACTUAL QUANTITY OF EXITS PROVIDED IS THREE AND REMOTENESS OF EXIT IS GREATER THAN ONE-HALF OF THE OVERALL DIAGONAL.
- PORTABLE FIRE EXTINGUISHERS SHALL BE MOUNTED ON FACTORY PROVIDED HANGER AND COMPLY WITH MOUNTING HEIGHTS IN NFPA 10 CHAPTER 6.1.3.8.4.
- SIGNS SHALL BE INSTALLED BY EXTINGUISHERS TO CLEARLY INDICATE THE TYPE OF FIRE THEY ARE INTENDED FOR.
- EMERGENCY LIGHTING LOCATIONS TO BE SHOWN ON ELECTRICAL SERIES DRAWINGS.

## KEYNOTES

21.01. 'NO EXIT' SIGN POSTED ON DOOR TO COMPLY WITH NFPA CHAPTER 7.10.8.3.1

## LEGEND

- |         |  |
|---------|--|
| X       | EXIT SYMBOL                                |
| ##      | CLEAR WIDTH (DOOR, INCHES)                 |
| 0.2 0.3 | EGRESS CAPACITY FACTOR (INCHES PER PERSON) |
| ##      | AVAILABLE EXIT CAPACITY (PERSONS)          |
| ##      | ASSIGNED EXIT CAPACITY (PERSONS)           |
- 
- |      |  |
|------|--|
| ▲    | DRY CHEMICAL FIRE EXTINGUISHER                         |
| △    | CLEAN AGENT EXTINGUISHER                               |
| ●    | PHOTO-LUMINESCENT SINGLE SIDED EXIT SIGN UL 924 LISTED |
| ● TD | TRAVEL DISTANCE  |
| ● CP | COMMON PATH OF TRAVEL                                  |
| ● DE | DEAD END   |

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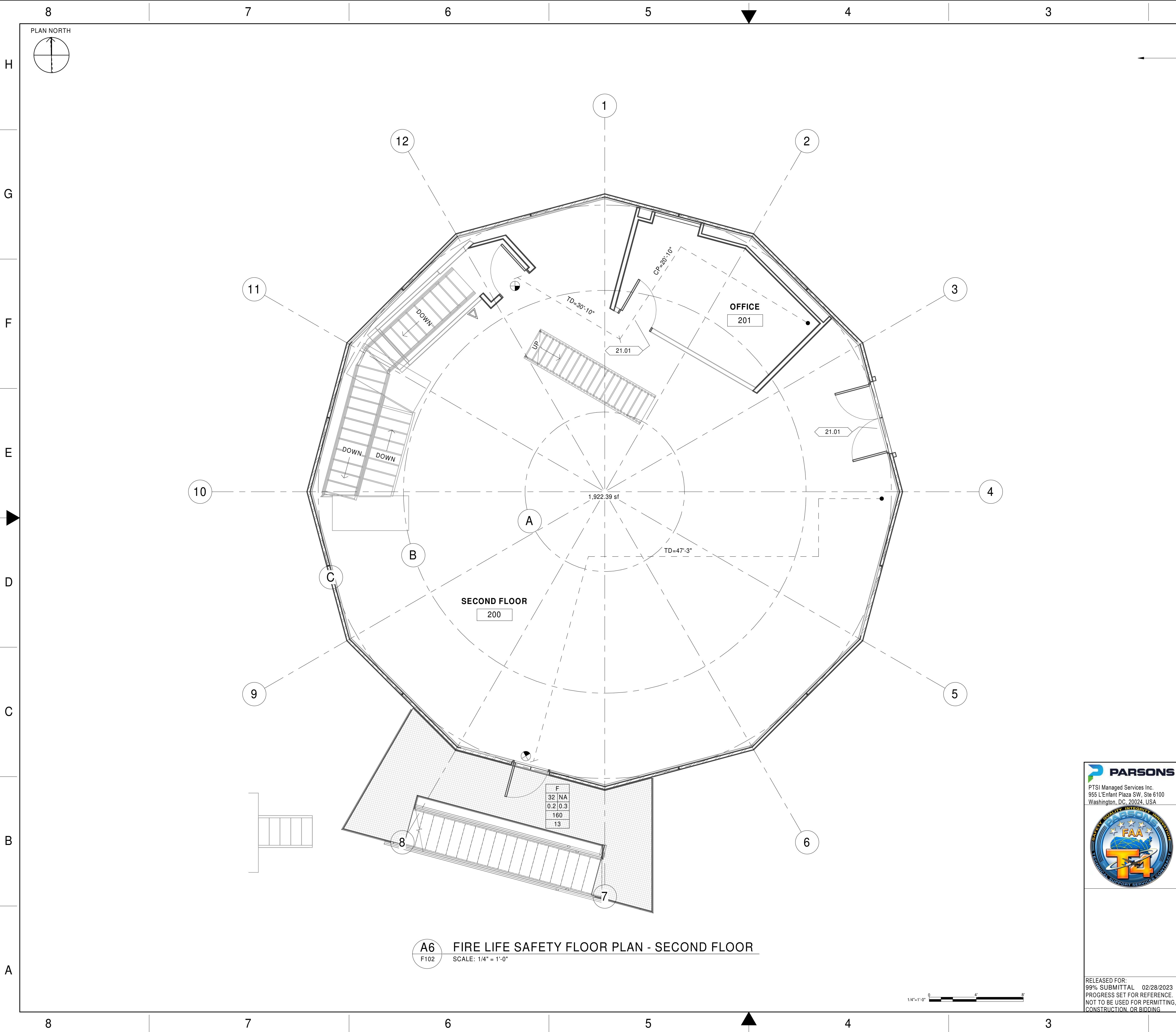
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RUSSELLVILLE AR									
REVIEWED BY	SUBMITTED BY				APPROVED BY				
PROJECT ENGINEER		MGR: ENGINEERING							
DESIGNED	AB	ISSUED BY			DATE	JCN	22002872		
DRAWN	AB	ENGINEERING SERVICES			DRAWING NO		REV		
CHECKED	CMP				QXR - 22002872 - F101				

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## KEYNOTES

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## LEGEND

- |           |  |
|-----------|--|
| X         | EXIT SYMBOL                                |
| ##   ##   | CLEAR WIDTH (DOOR, INCHES)                 |
| 0.2   0.3 | EGRESS CAPACITY FACTOR (INCHES PER PERSON) |
| ##        | AVAILABLE EXIT CAPACITY (PERSONS)          |
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- |      |  |
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|      | DRY CHEMICAL FIRE EXTINGUISHER                         |
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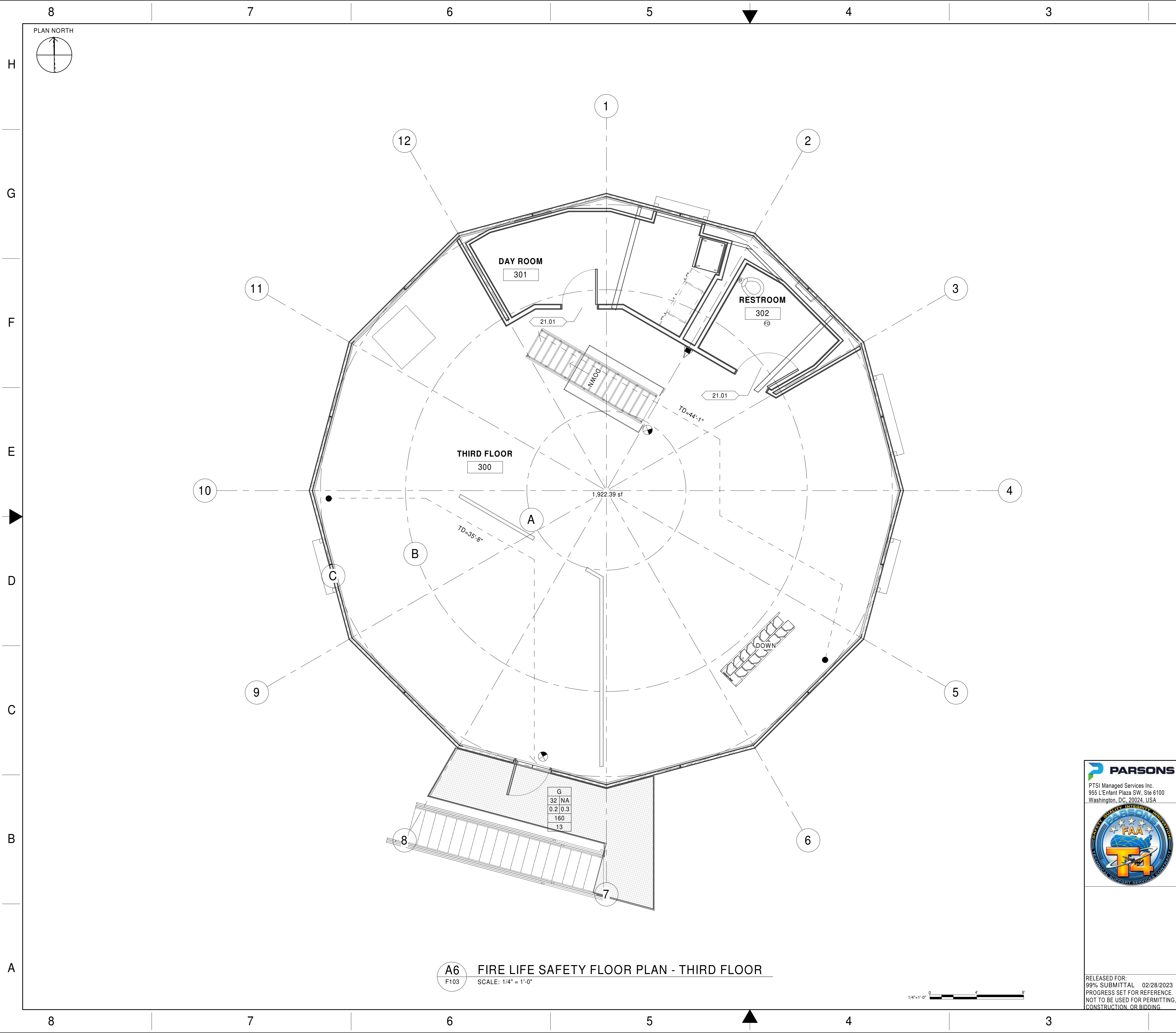
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RUSSELLVILLE						AR	
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## KEYNOTES

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## LEGEND

X	EXIT SYMBOL
##   ##	CLEAR WIDTH (DOOR, INCHES)
0.2   0.3	EGRESS CAPACITY FACTOR (INCHES PER PERSON)
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##	ASSIGNED EXIT CAPACITY (PERSONS)
▲	DRY CHEMICAL FIRE EXTINGUISHER
△	CLEAN AGENT EXTINGUISHER
⊗	PHOTO-LUMINESCENT SINGLE SIDED EXIT SIGN UL 924 LISTED
● TD	TRAVEL DISTANCE
● CP	COMMON PATH OF TRAVEL
● DE	DEAD END

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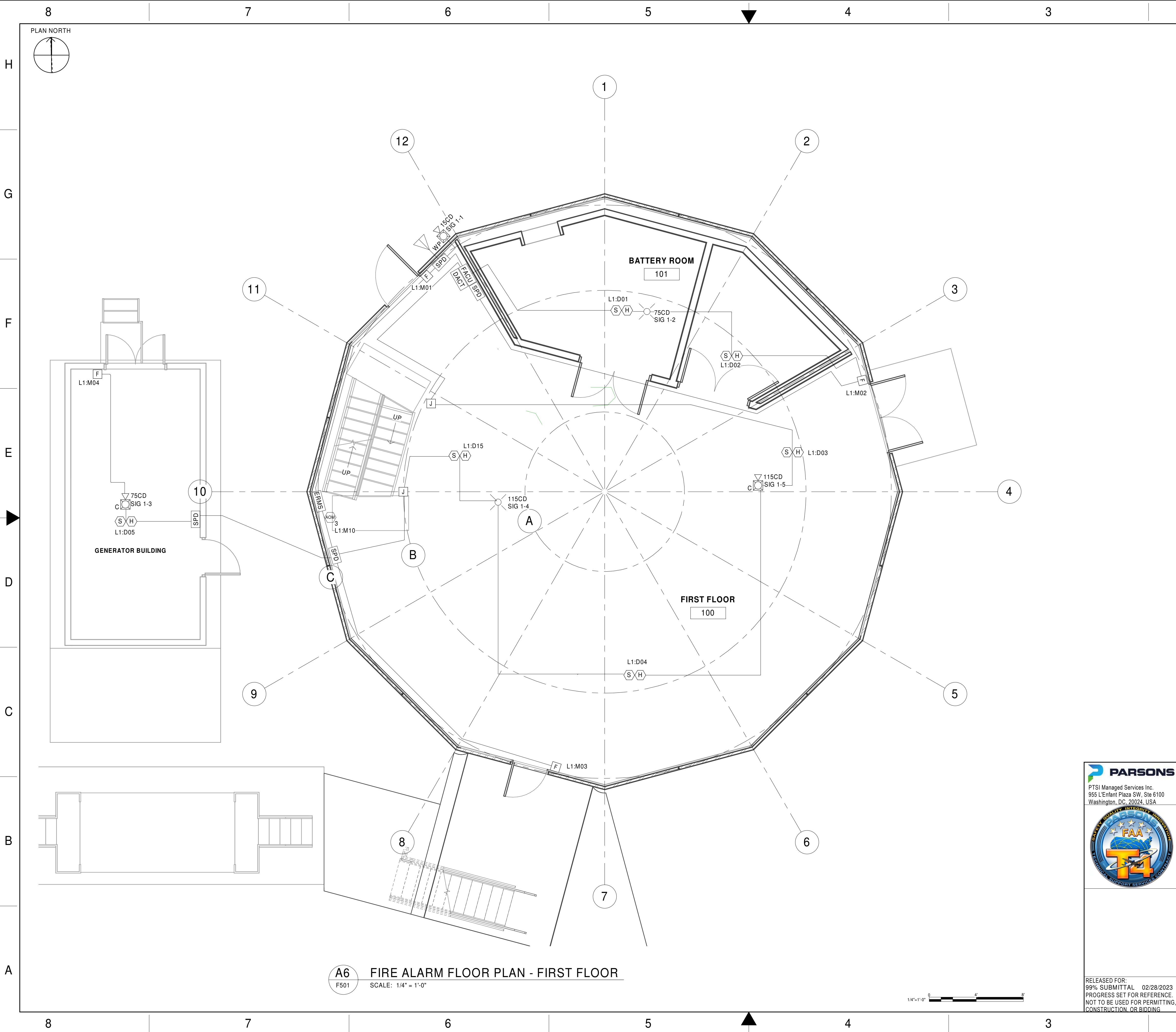
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RUSSELLVILLE						AR			
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## GENERAL NOTES

- ALL DETECTORS SHALL BE MOUNTED WITHIN 12 INCHES OF THE CEILING
- ALL CEILING MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED BELOW THE LEVEL OF DUCT WORK TO ALLOW MAXIMUM LIGHT COVERAGE.

## LEGEND

	FIRE ALARM CONTROL UNIT
	CELLULAR ALARM COMMUNICATOR
	ADDRESSABLE MANUAL STATION
	MULTI-CRITERIA SMOKE/HEAT DETECTOR
	ADDRESSABLE OUTPUT MODULE
	HORN/STROBE, CEILING MOUNT
	STROBE ONLY, CEILING MOUNT
	HORN/STROBE, OUTDOOR RATED
	SURGE PROTECTION DEVICE
	CELLULAR ANTENNA
	ENVIRONMENTAL REMOTE MONITORING SYSTEM
	JUNCTION BOX

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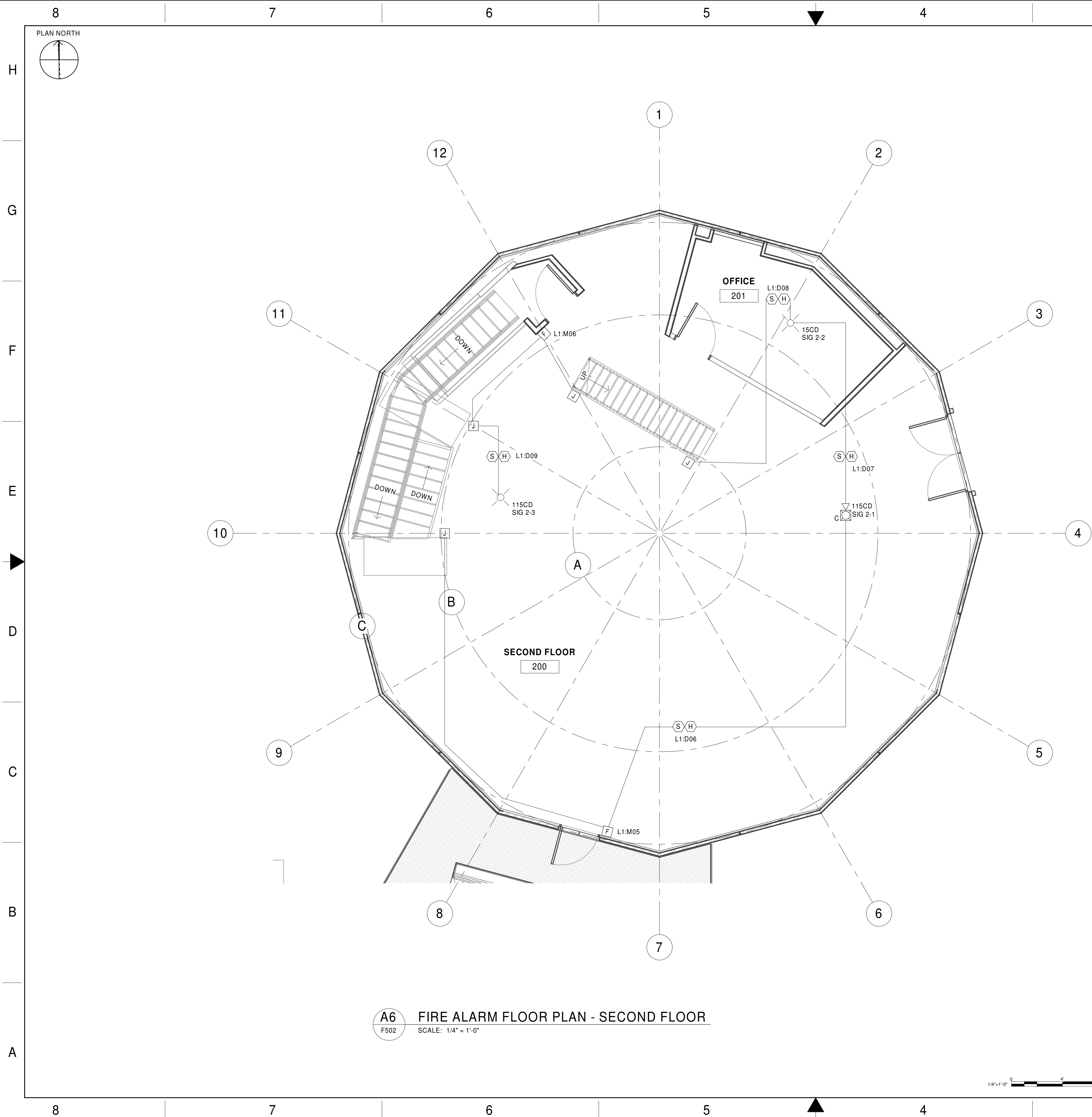
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RUSSELLVILLE									
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NOT FOR CONSTRUCTION

ISSUED FOR: 99% SUBMITTAL

















## GENERAL NOTES

1. ALL DETECTORS SHALL BE MOUNTED WITHIN 12 INCHES OF THE CEILING
2. ALL CEILING MOUNTED NOTIFICATION DEVICES SHALL BE MOUNTED BELOW THE LEVEL OF DUCT WORK TO ALLOW MAXIMUM LIGHT COVERAGE.

## LEGEND

	FIRE ALARM CONTROL UNIT
	CELLULAR ALARM COMMUNICATOR
	ADDRESSABLE MANUAL STATION
	MULTI-CRITERIA SMOKE/HEAT DETECTOR
	ADDRESSABLE OUTPUT MODULE
	HORN/STROBE, CEILING MOUNT
	STROBE ONLY, CEILING MOUNT
	HORN/STROBE, OUTDOOR RATED
	SURGE PROTECTION DEVICE
	CELLULAR ANTENNA
	ENVIRONMENTAL REMOTE MONITORING SYSTEM
	JUNCTION BOX

**UNCHECKED  
WORK-IN-PROGRESS**

Not for Construction – Not Final

FOR OFFICIAL USE ONLY

PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

PTSI PARSONS Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA

SAFETY COUNTY INTEGRITY IMMUNITY  
FAA  
T4  
PROTECTION SUPPORT SERVICES PROTECTION

RELEASED FOR: 02/28/2023  
99% SUBMITTAL  
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CONSTRUCTION, OR PILING



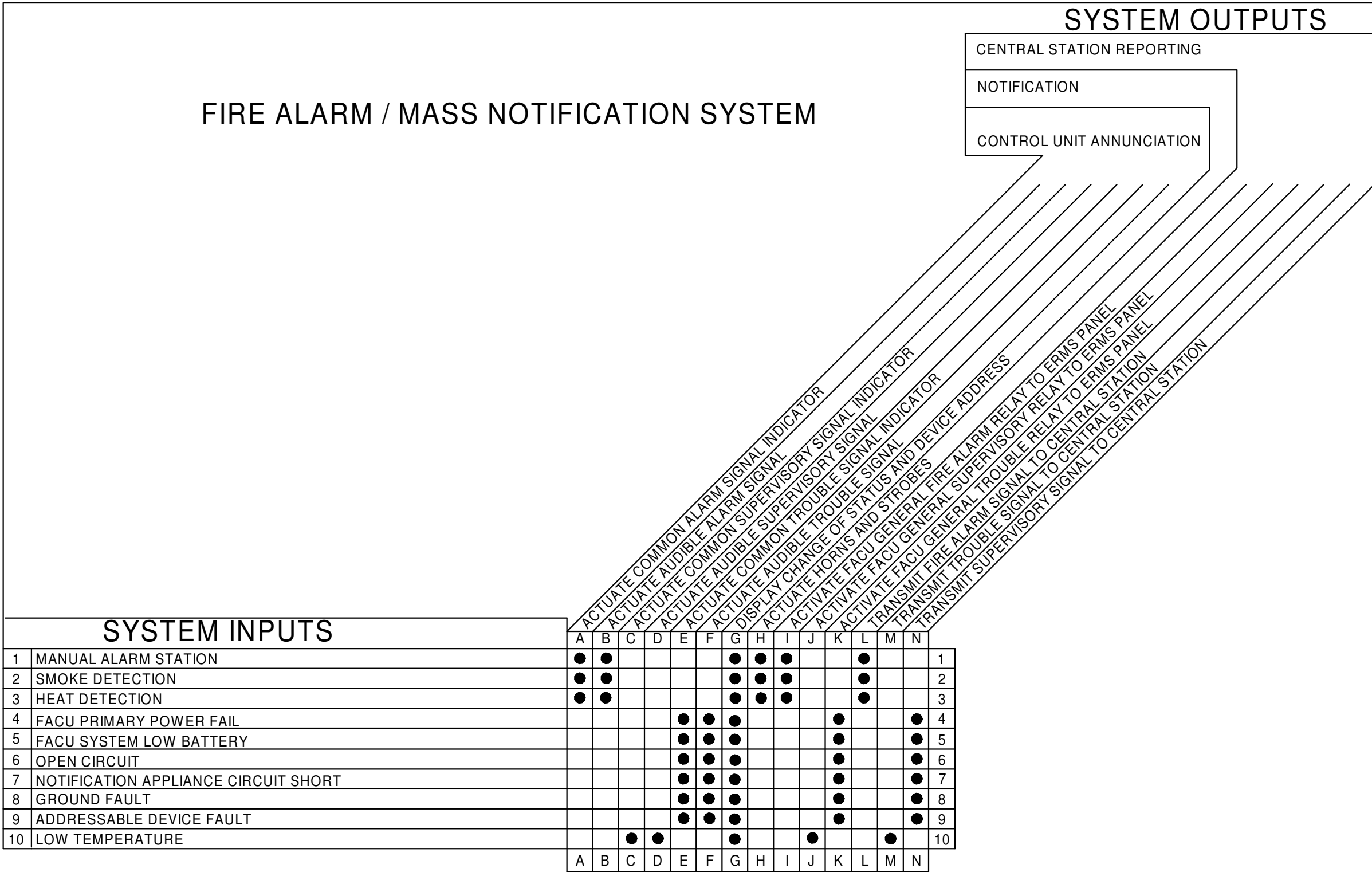




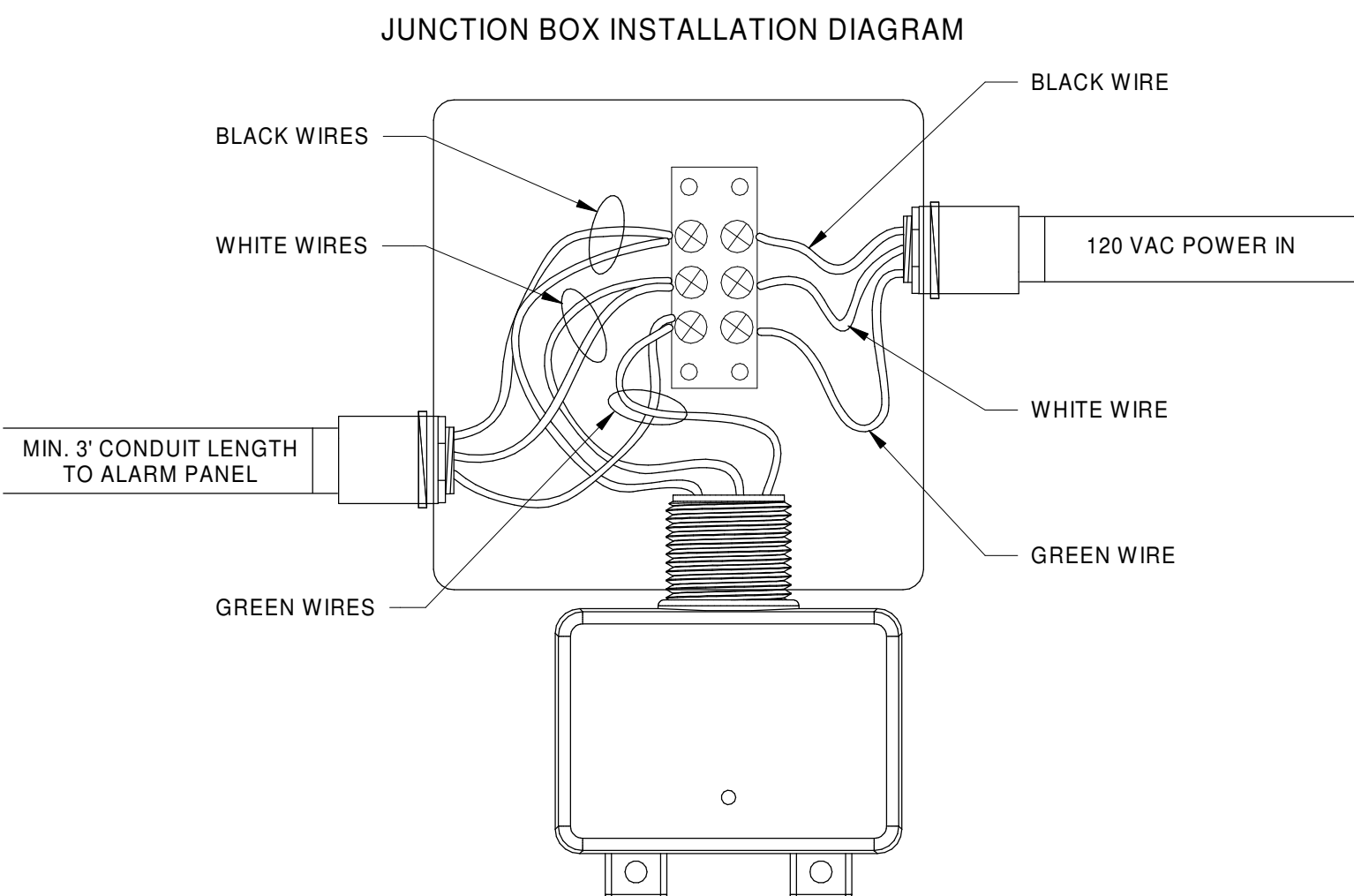




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E8 FACP INPUT/OUTPUT MATRIX  
F551 SCALE: NOT TO SCALE



A8 DTK - 120HW SURGE PROTECTOR WIRING DETAIL  
F551 SCALE: NOT TO SCALE

UNCHECKED  
WORK-IN-PROGRESS  
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PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

PARSONS

PTSI Managed Services Inc.  
955 L'Enfant Plaza SW, Ste 6100  
Washington, DC, 20024, USA

FAA

FAA T4

REV

APPROVED DATE

DESCRIPTION

JCN

REDLINE DATE

APVD

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

ATO - TECHNICAL OPERATIONS

CENTRAL SERVICE AREA

ARSR

LONG RANGE RADAR SUSTAINMENT PROJECT  
FIRE ALARM DETAILS

RUSSELLVILLE

AR

REVIEWED BY

SUBMITTED BY

DESIGNED

DRAWN

CHECKED

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CMP

ISSUED BY

ENGINEERING SERVICES

MGR: ENGINEERING

DATE

JCN

22002872

DRAWING NO

QXR - 22002872 - F551

REV

RELEASED FOR:  
99% SUBMITTAL 02/28/2023  
PROGRESS SET FOR REFERENCE.  
NOT TO BE USED FOR PERMITTING,  
CONSTRUCTION, OR BIDDING

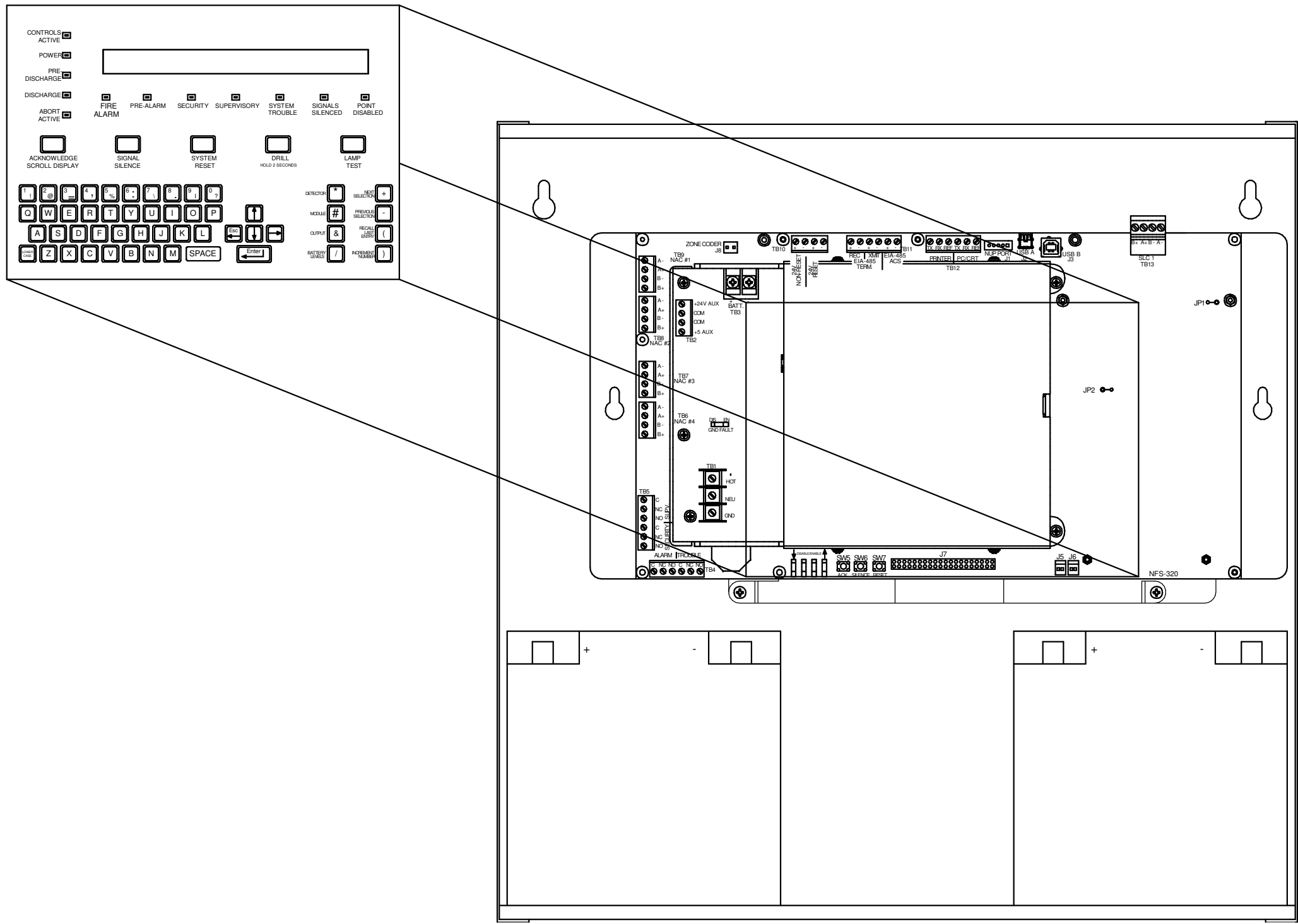
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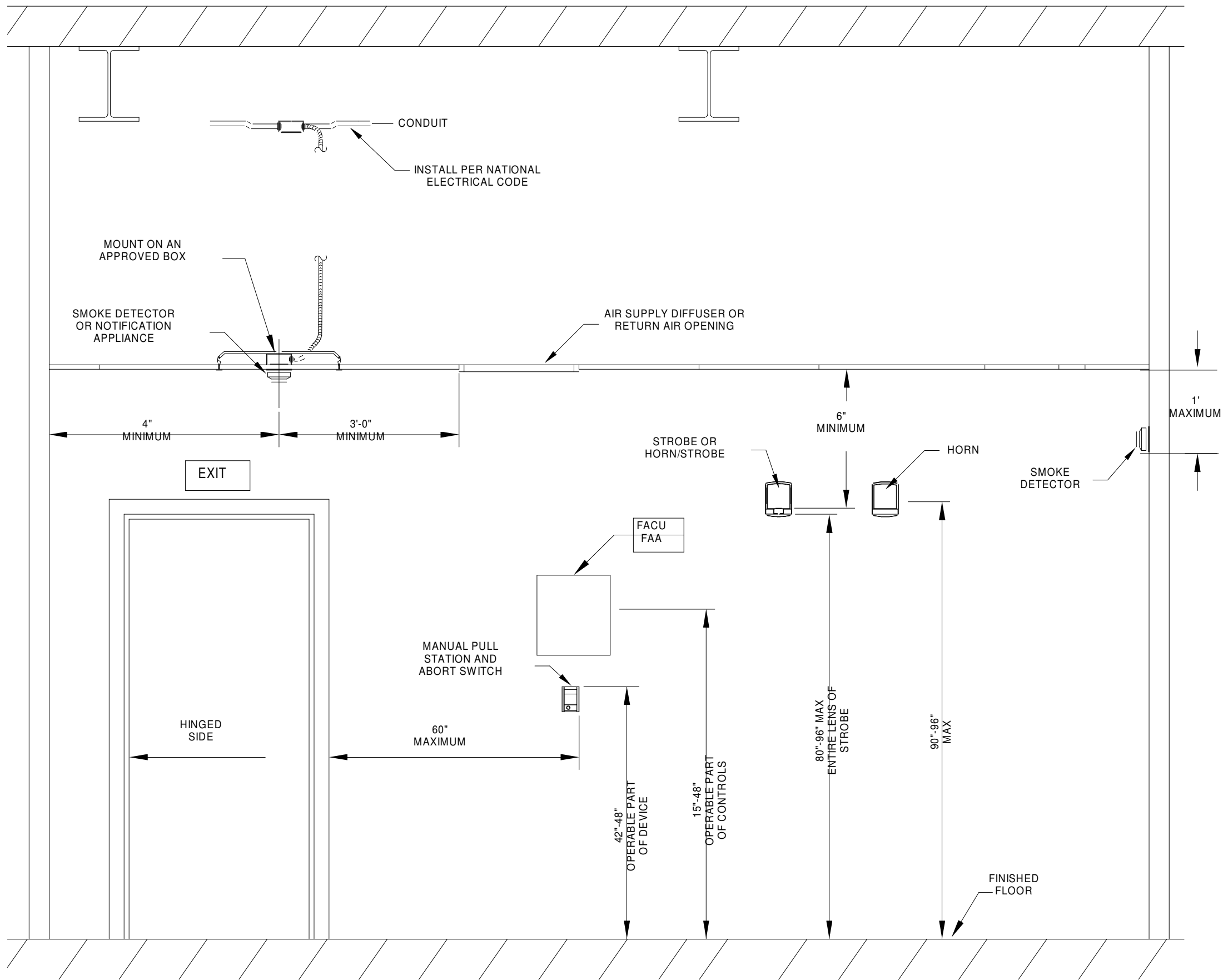
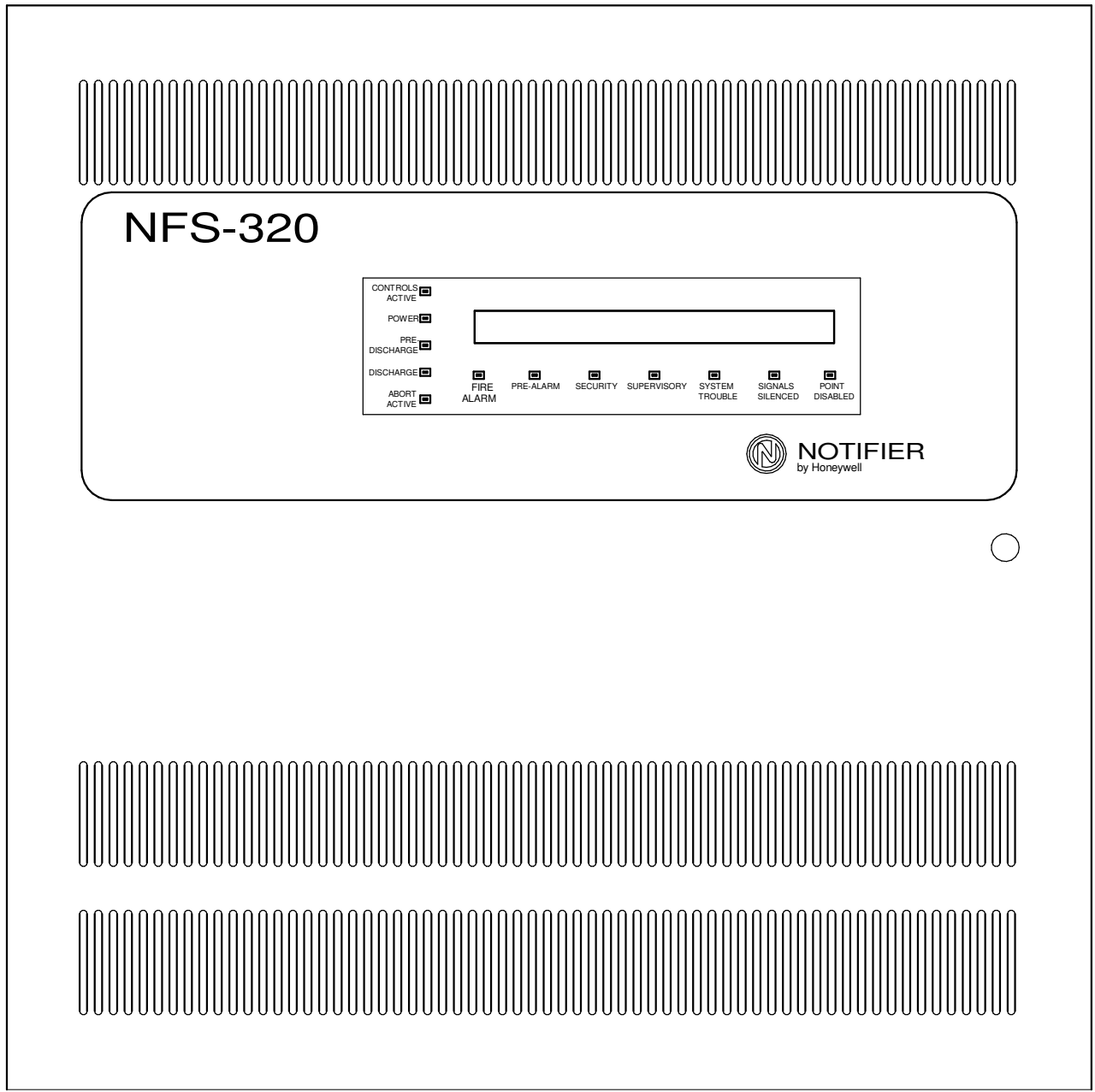


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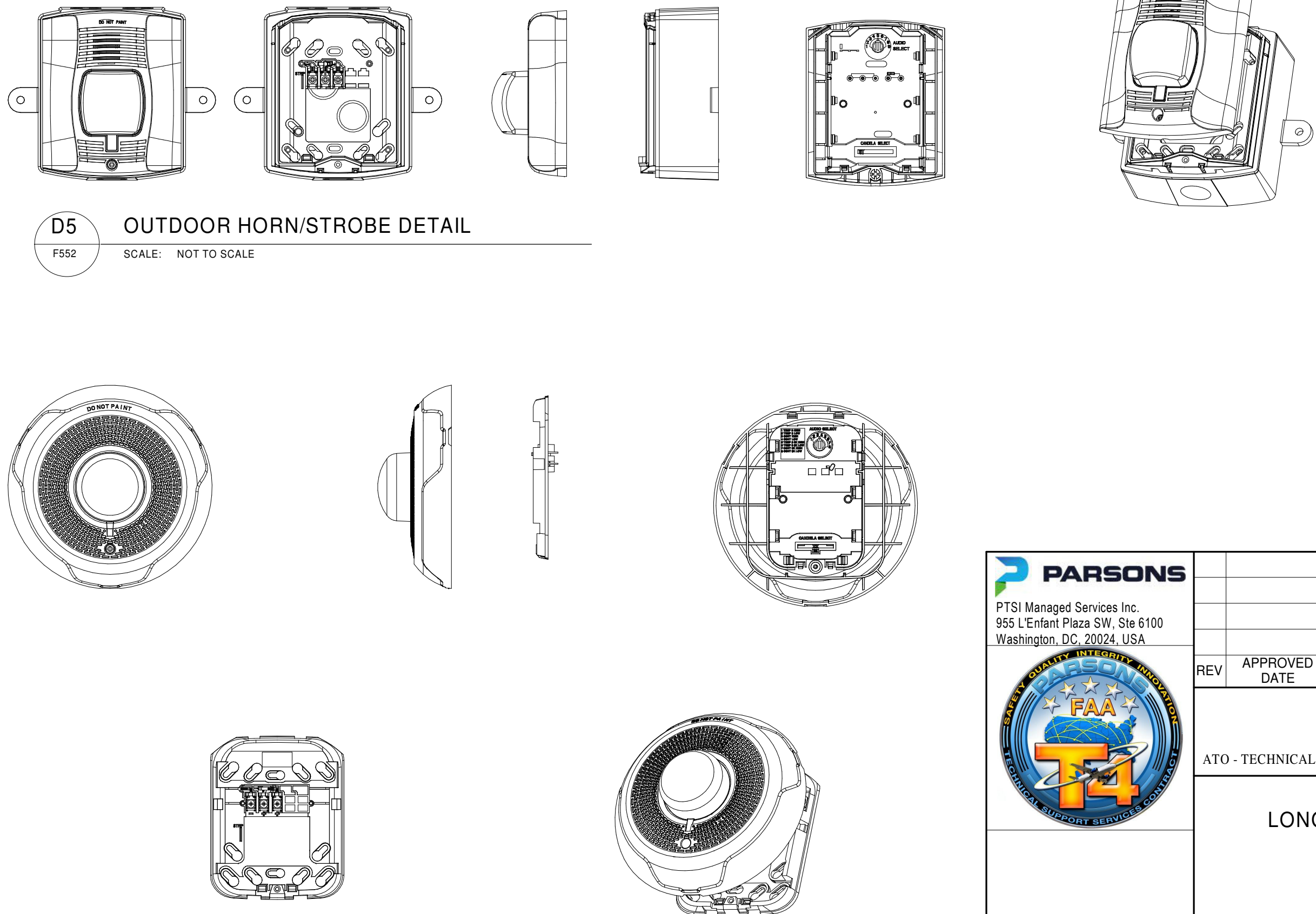
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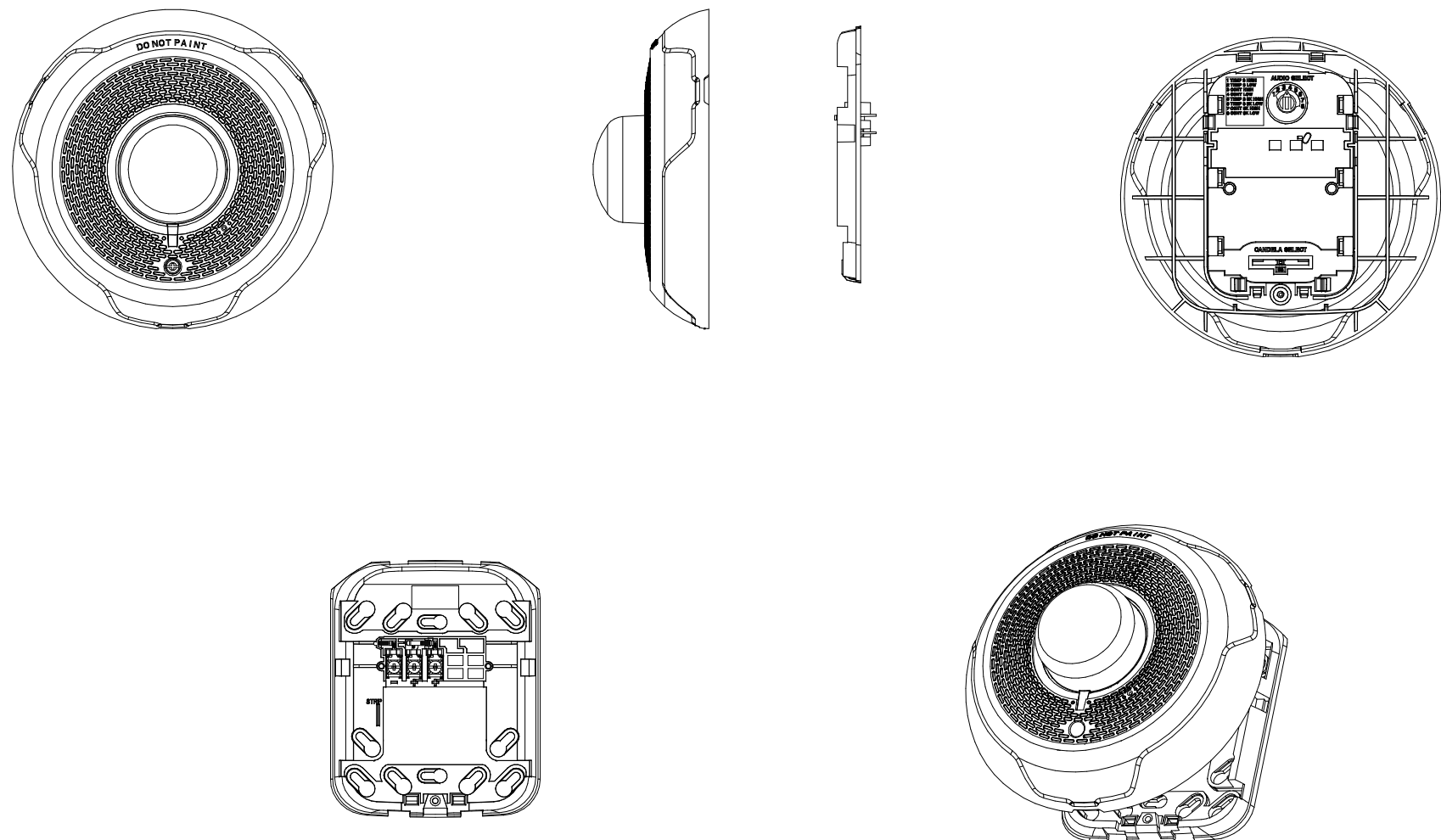
E6 NFS - 320 DETAIL  
F552 SCALE: NOT TO SCALE



A8 FIRE ALARM MOUNTING DETAILS  
F552 SCALE: NOT TO SCALE




D5 OUTDOOR HORN/STROBE DETAIL  
F552 SCALE: NOT TO SCALE



A5 CEILING MOUNTED HORN/STROBE DETAIL  
F552 SCALE: NOT TO SCALE

**UNCHECKED  
WORK-IN-PROGRESS**  
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PUBLIC AVAILABILITY TO BE DETERMINED UNDER 5 USC 552

<b>PARSONS</b> PTSI Managed Services Inc. 955 L'Enfant Plaza SW, Ste 6100 Washington, DC, 20024, USA		REV		APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD
		DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ATO - TECHNICAL OPERATIONS CENTRAL SERVICE AREA						
		ARSR LONG RANGE RADAR SUSTAINMENT PROJECT FIRE ALARM DETAILS						
RUSSELLVILLE		AR						
REVIEWED BY		SUBMITTED BY		APPROVED BY		DO NOT SIGN		
		PROJECT ENGINEER		MGR: ENGINEERING		DO NOT SIGN		
		DESIGNED AB		DATE		DO NOT SIGN		
		DRAWN AB		ISSUED BY		DO NOT SIGN		
		CHECKED CMP		ENGINEERING SERVICES		DO NOT SIGN		
				DRAWING NO		DO NOT SIGN		
				QXR - 22002872 - F552		DO NOT SIGN		
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PROGRESS SET FOR REFERENCE.  
NOT TO BE USED FOR PERMITTING,  
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NOT FOR CONSTRUCTION

ISSUED FOR: 99% SUBMITTAL



