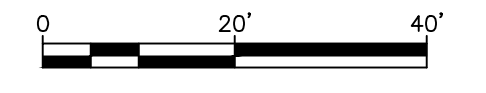


CONTROL POINT #1
 T.B.M. ELEV.: 11.91'
 FMGD LB 3724 TRAV
 N: 542998.4139
 E: 1341468.6562

CONTROL POINT #2
 T.B.M. ELEV.: 12.16'
 FIR LB 3724 TRAV
 N: 543175.6585
 E: 1341224.7771

CONTROL POINT #4
 T.B.M. ELEV.: 12.13'
 FMGD LB 3724 TRAV
 N: 542899.0127
 E: 1341329.2877

- NOTES:**
1. DUE TO POTENTIALLY CONTAMINATED SOIL, ANY EXCESS SOIL SHALL REMAIN ON-SITE AND SPREAD AT A LOCATION AS NOT TO IMPEDE NATURAL STORMWATER FLOW. SOD SOIL SPREAD AREA WITH ARGENTINE BAHIA SOD.
 2. DE-WATERING IF REQUIRED, SHALL BE PUMPED TO SANITARY SEWER. COORDINATE DE-WATERING WITH MR. TIM LANGLEY 850-699-9149 AND OKALOOSA COUNTY WATER AND SEWER.
 3. LOCATE EXISTING COMM LINES PRIOR BEGINNING CONSTRUCTION & PROTECT EXISTING COMM LINE THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES THAT OCCUR DURING CONSTRUCTION.



LEGEND:

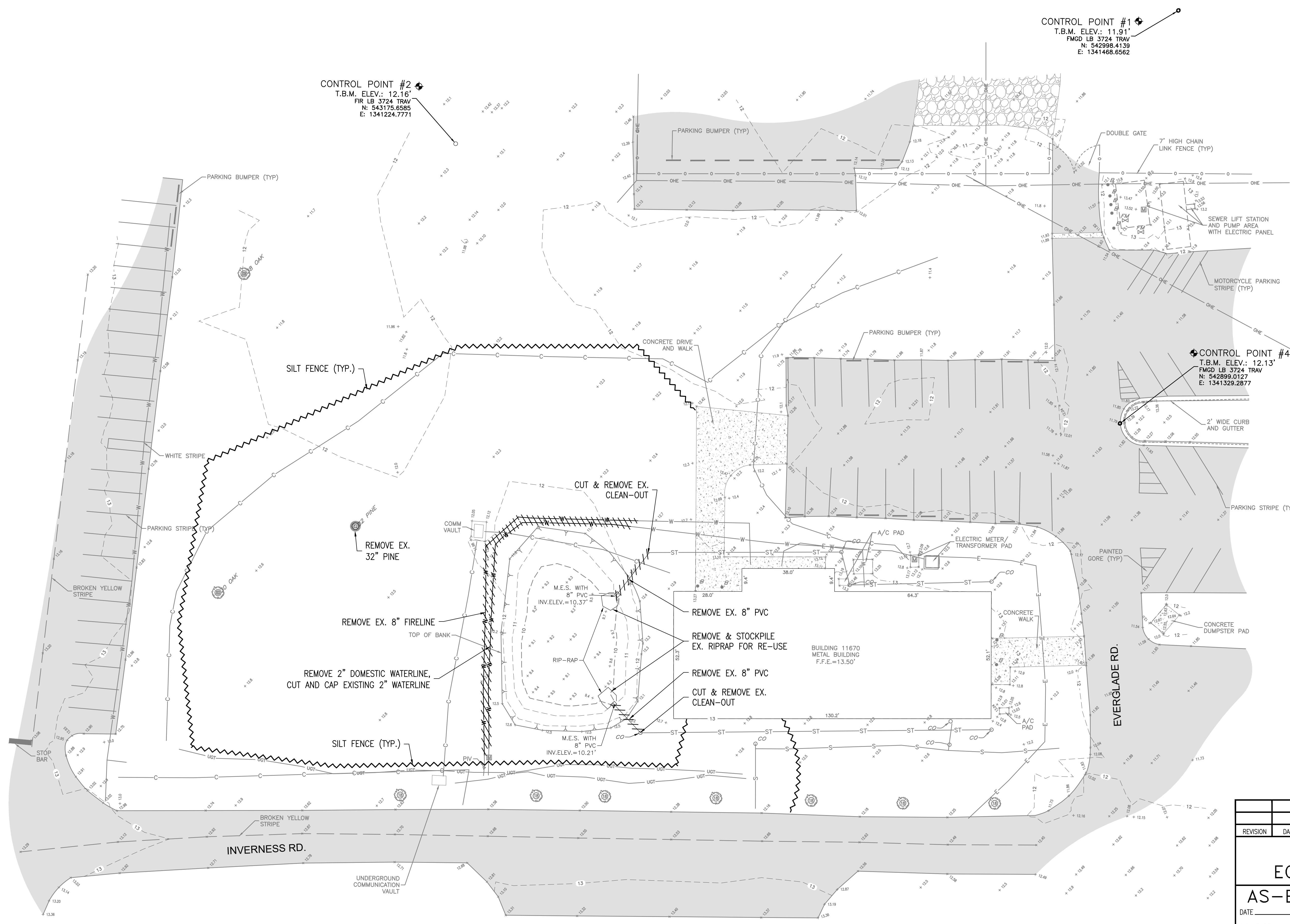
EX. — EXISTING
 24.8 + — EXISTING SPOT ELEVATION
 F.F.E. — FINISHED FLOOR ELEVATION
 ELEV. — ELEVATION

- FM — ELECTRIC PEDESTAL
- FM — FORCE MAIN GATE VALVE
- TE — TELEPHONE PEDESTAL
- B — BOLLARD
- EM — ELECTRIC METER
- EO — ELECTRIC OUTLET
- W — WATER GATE VALVE
- BM — BENCHMARK
- IP — INDICATOR POST
- SP — SERVICE POWER POLE
- GA — GUY ANCHOR
- S — SIGN
- OHE — OVERHEAD ELECTRIC LINES
- UGT — BURIED COMMUNICATION LINE
- LT — LIVE OAK TREE
- LP — LONGLEAF PINE TREE

- EX. ASPHALT
- EX. CONCRETE
- EX. GRAVEL
- NEW ARGENTINE BAHIA SOD
- SILT FENCE

SURVEY REPORT:

1. NO ENVIRONMENTAL JURISDICTION LINES HAVE BEEN DETERMINED BY GEOPOINT SURVEYING, INC.
2. GRAPHIC SYMBOLISM OF CORNER MONUMENTATION, UTILITIES, SIGNS, ETCETERA, ARE EXAGGERATED FOR CLARITY AND ARE NOT TO SCALE. THE CENTER POINT OF WHICH IS ACCURATELY PLOTTED TO SCALE AND/OR DIMENSIONED THERETO.
3. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFERENCE TO NORTH AMERICAN VERTICAL DATUM (1988), AS DERIVED FROM BASE MONUMENTATION.
4. THIS SURVEY WAS PERFORMED IN AND IS DIGITALLY REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH ZONE, N.A.D. 83 DATUM AS DERIVED FROM BASE MONUMENTATION.
5. CONTOURS ARE AT 1' INTERVALS.
6. UNDER GROUND UTILITIES SHOWN HEREON NOT FIELD LOCATED SINCE JUNE 27, 2018.
7. THIS SITE IS LOCATED IN SECTION 19 TOWNSHIP 1S, RANGE 22W, IN OKALOOSA COUNTY.



REVISION	DATE	DESCRIPTION	BY	APPR'D

**BASE CIVIL ENGINEER
 EGLIN AIR FORCE BASE, FLORIDA**

AS-BUILT
 DATE _____
 SIGNATURE _____
 APPROVED _____
 CENM _____
 DRAWN BY: RENTZ
 PROJ. ENGR: HORNE

**TITLE
 EXPANSION OF
 WAREHOUSE STORAGE
 CAPACITY
 BUILDING 11670**

CONTENTS
 EXISTING CONDITION & DEMOLITION PLAN

APPROVED
 96 CEG/CEN
 APPROVED
 BASE CIVIL ENGINEER

DATE
 14 JUNE 2024
 SCALE
 AS SHOWN

SPEC. NO. 24AC	PROJ. NO. FTFA 23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 2 OF 52
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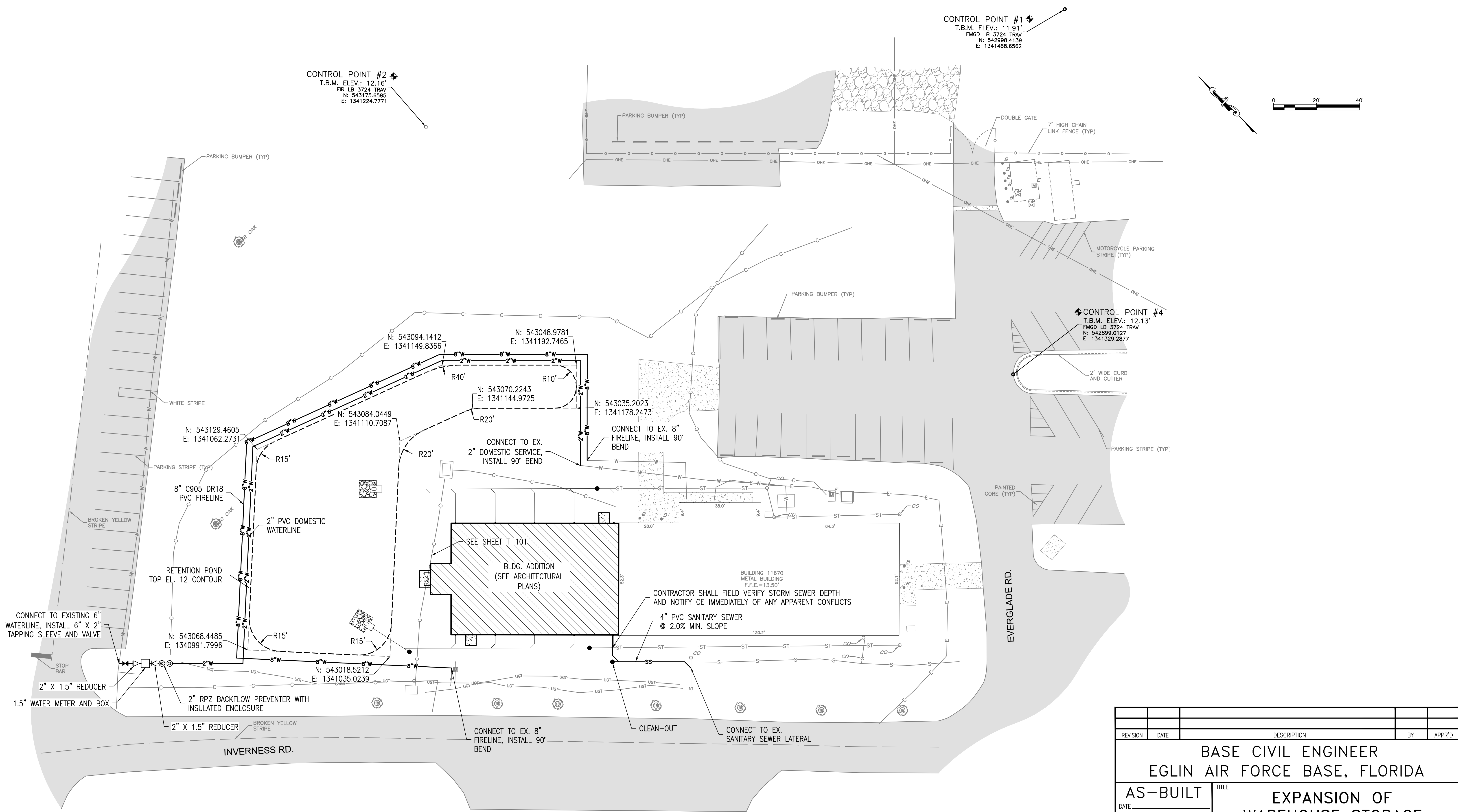
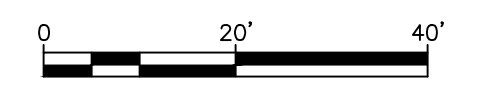


INDEX NO.
C-101

CONTROL POINT #1
 T.B.M. ELEV.: 11.91'
 FMGD LB 3724 TRAV
 N: 542998.4139
 E: 1341468.6562

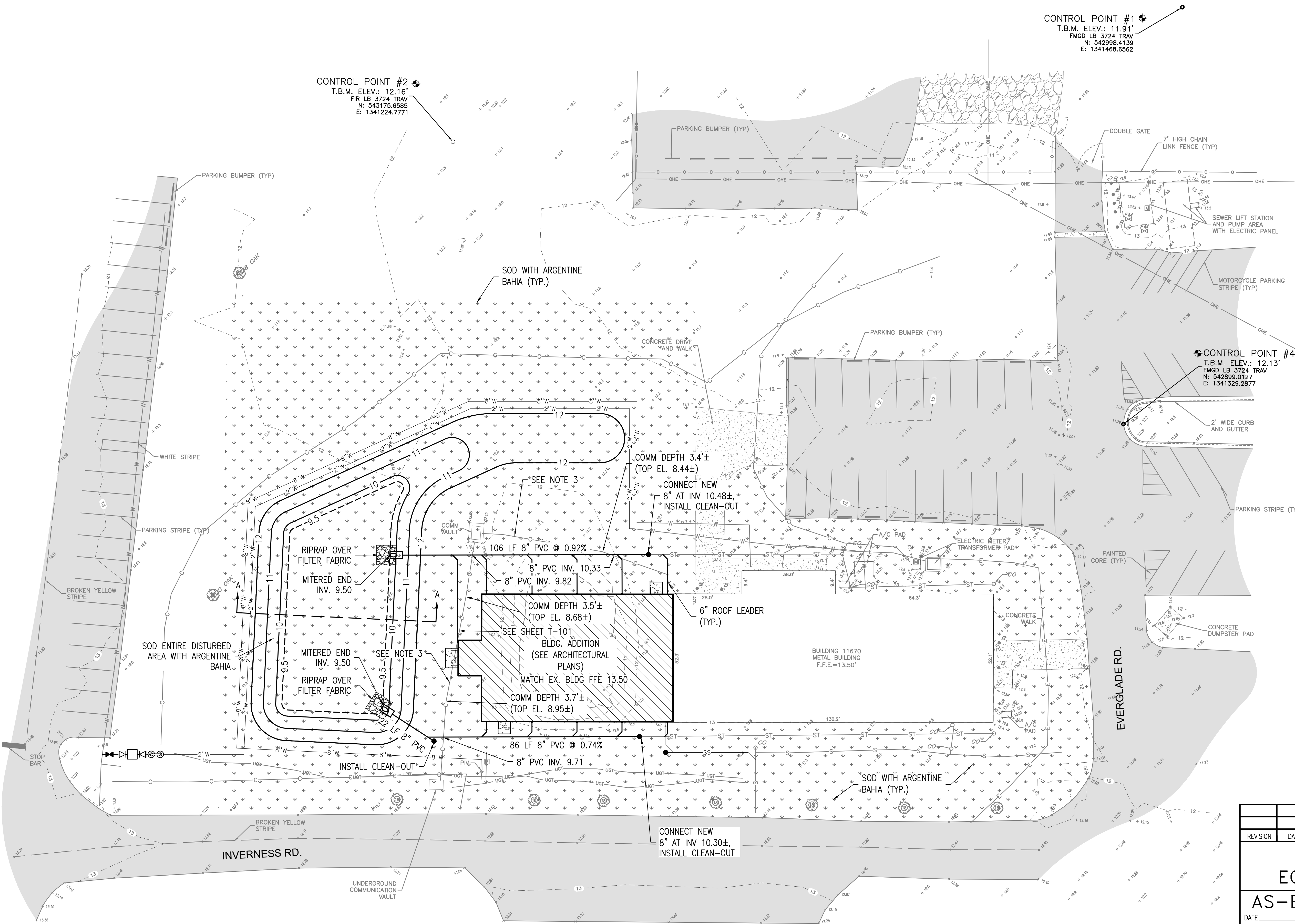
CONTROL POINT #2
 T.B.M. ELEV.: 12.16'
 FIR LB 3724 TRAV
 N: 543175.6585
 E: 1341224.7771

CONTROL POINT #4
 T.B.M. ELEV.: 12.13'
 FMGD LB 3724 TRAV
 N: 542899.0127
 E: 1341329.2877

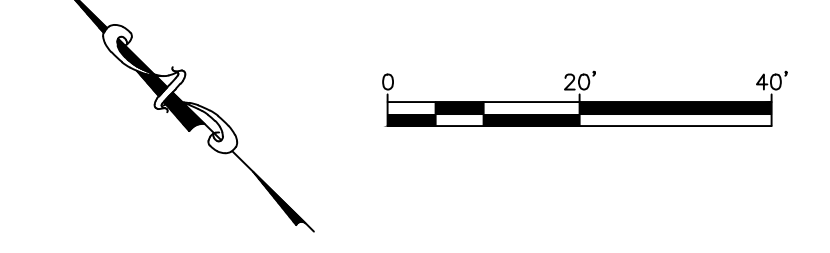


REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE _____		SIGNATURE _____		
APPROVED _____		CENM _____		
DRAWN BY: RENTZ		PROJ. ENGR. HORNE		
CONTENTS SITE & UTILITY PLAN		APPROVED _____ DATE 14 JUNE 2024		
APPROVED 96 CEG/CEN		APPROVED _____ SCALE AS SHOWN		
BASE CIVIL ENGINEER		SPEC. NO. 24AC		
PROJ. NO. FTFA 23VH48		DRAWING NO. 24AC		FILE NO. _____
SHEET 3 OF 52				

INDEX NO.
C-201

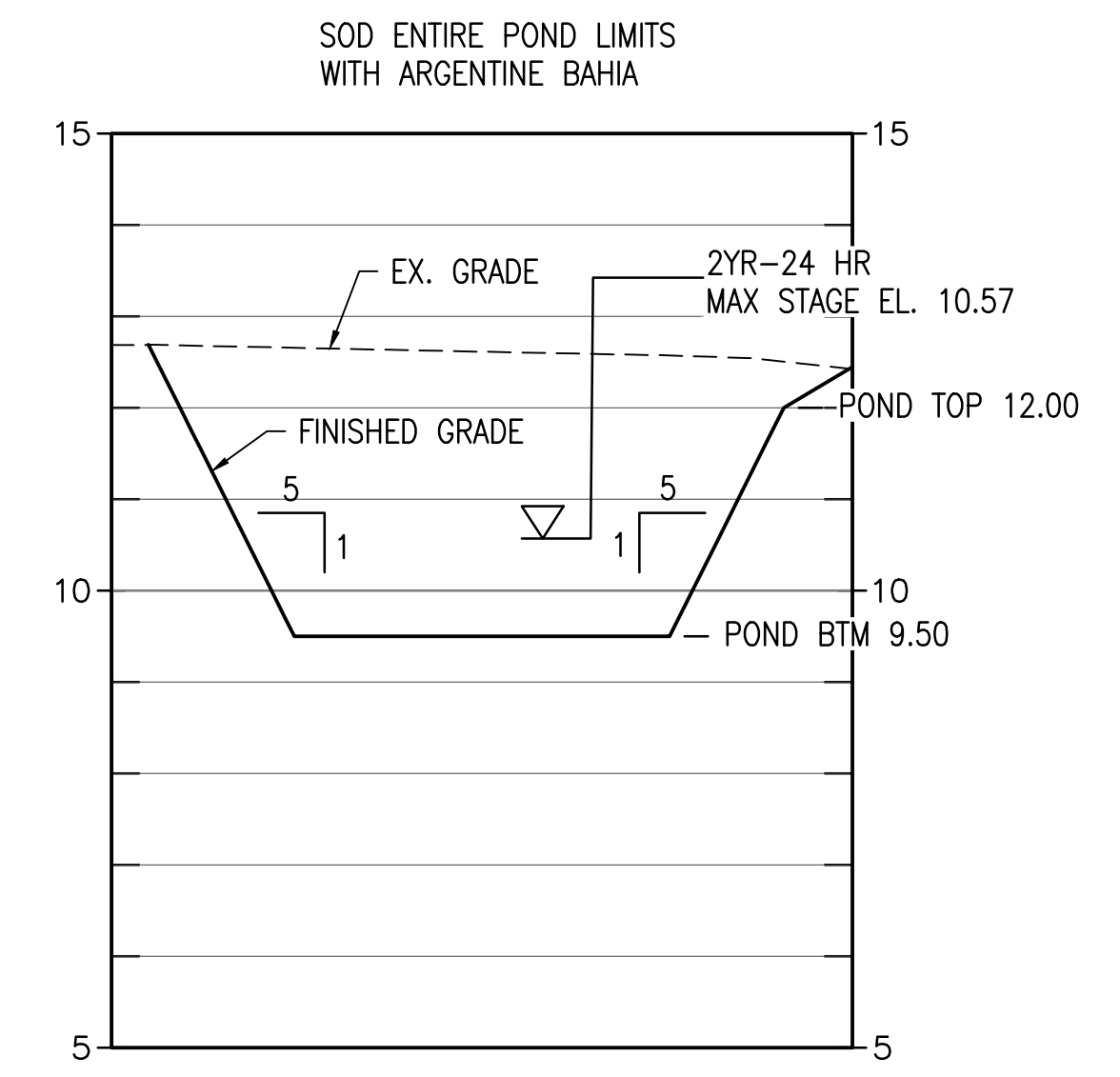


- NOTES:**
1. DUE TO POTENTIALLY CONTAMINATED SOIL, ANY EXCESS SOIL SHALL REMAIN ON-SITE AND SPREAD AT A LOCATION AS NOT TO IMPEDE NATURAL STORMWATER FLOW. SOD SOIL SPREAD AREA WITH ARGENTINE BAHIA SOD.
 2. DE-WATERING IF REQUIRED, SHALL BE PUMPED TO SANITARY SEWER. COORDINATE DE-WATERING WITH MR. TIM LANGLEY 850-699-9149 AND OKALOOSA COUNTY WATER AND SEWER.
 3. LOCATE EXISTING COMM LINES PRIOR BEGINNING CONSTRUCTION & PROTECT EXISTING COMM LINE THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES THAT OCCUR DURING CONSTRUCTION.



NOTE: PROVIDE 6" ROOF LEADER TO EACH DOWNSPOUT (TYP.)

POND STAGE STORAGE VOLUME		
ELEVATION (FT)	AREA (SF)	CUMULATIVE VOLUME (CF)
12.00	8933	14320
11.00	5895	6906
10.00	4124	1897
9.50	3462	0



POND SECTION A
SCALE H:1"=20' V:1"=2'

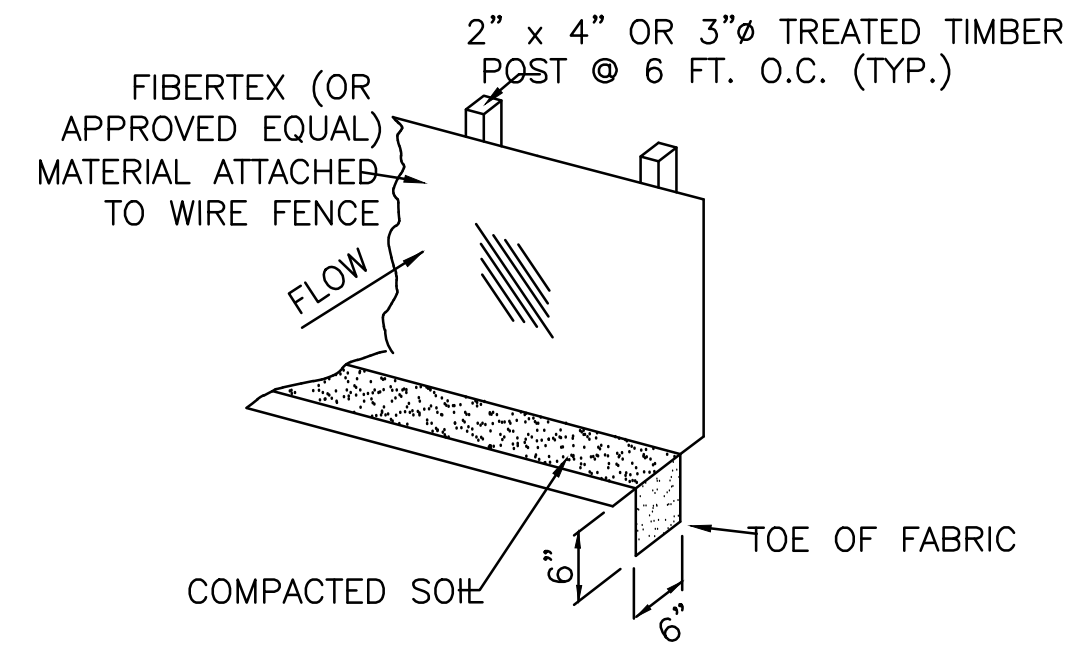
REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE _____		SIGNATURE _____		
APPROVED _____		CENM _____		
DRAWN BY: RENTZ		PROJ. ENGR. HORNE		
CONTENTS GRADING & DRAINAGE PLAN		APPROVED _____ DATE 14 JUNE 2024		
APPROVED _____		APPROVED _____ SCALE AS SHOWN		
SPEC. NO. 24AC		PROJ. NO. FTFA 23VH48	DRAWING NO. 24AC	FILE NO. _____ SHEET 4 OF 52



INDEX NO.
C-301

STORMWATER POLLUTION PREVENTION PLAN GENERAL NOTES:

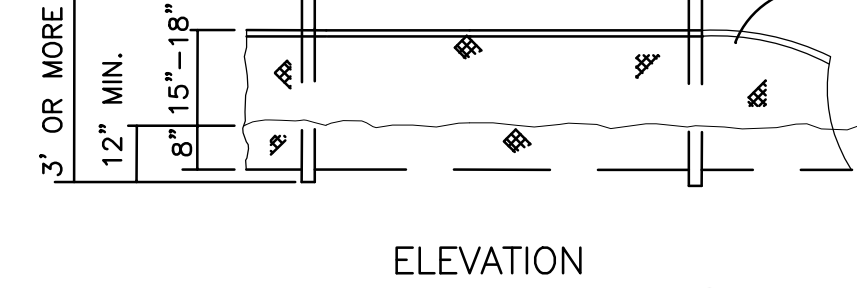
1. EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986.
3. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
4. SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFF SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
6. SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE NUMBER 2 (ABOVE).
7. THE SITE SHALL ALWAYS BE GRADED AND MAINTAINED SUCH THAT STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
8. AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.
9. DE-WATERING IF REQUIRED, SHALL BE PUMPED TO SANITARY SEWER. COORDINATE DE-WATERING WITH MR. TIM LANGLEY 850-699-9149 AND OKALOOSA COUNTY WATER AND SEWER.



(SEE DETAIL B & C THIS SHEET)

A SILT FENCE DETAIL
C-501 N.T.S.

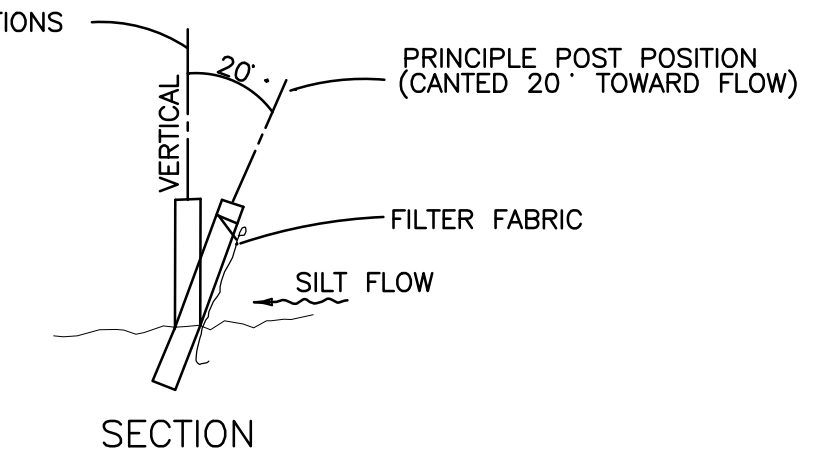
POST OPTIONS:
WOOD 2 1/2" MIN. Ø
WOOD 2"x4"
OAK 1 1/2"x1 1/2"
STEEL 1.33 LBS./FT. MIN.



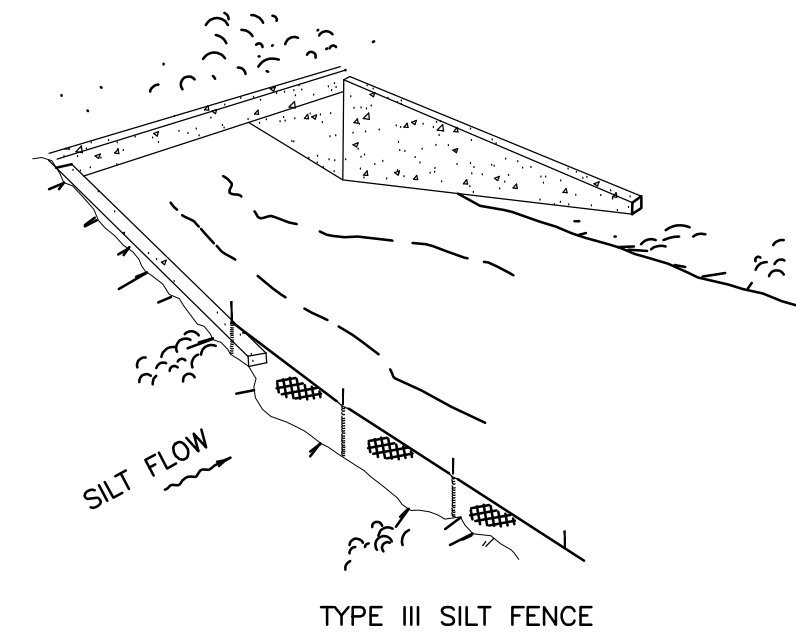
ELEVATION

B TYPE III SILT FENCE
C-501 N.T.S.

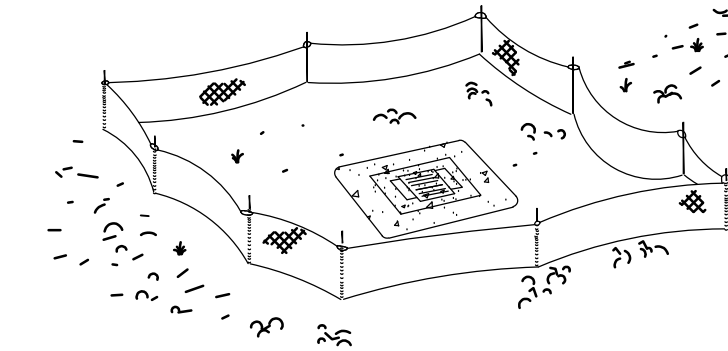
OPTIONAL POST POSITIONS



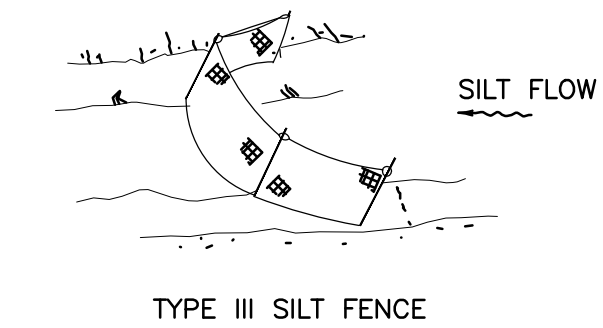
SECTION



TYPE III SILT FENCE



TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS.



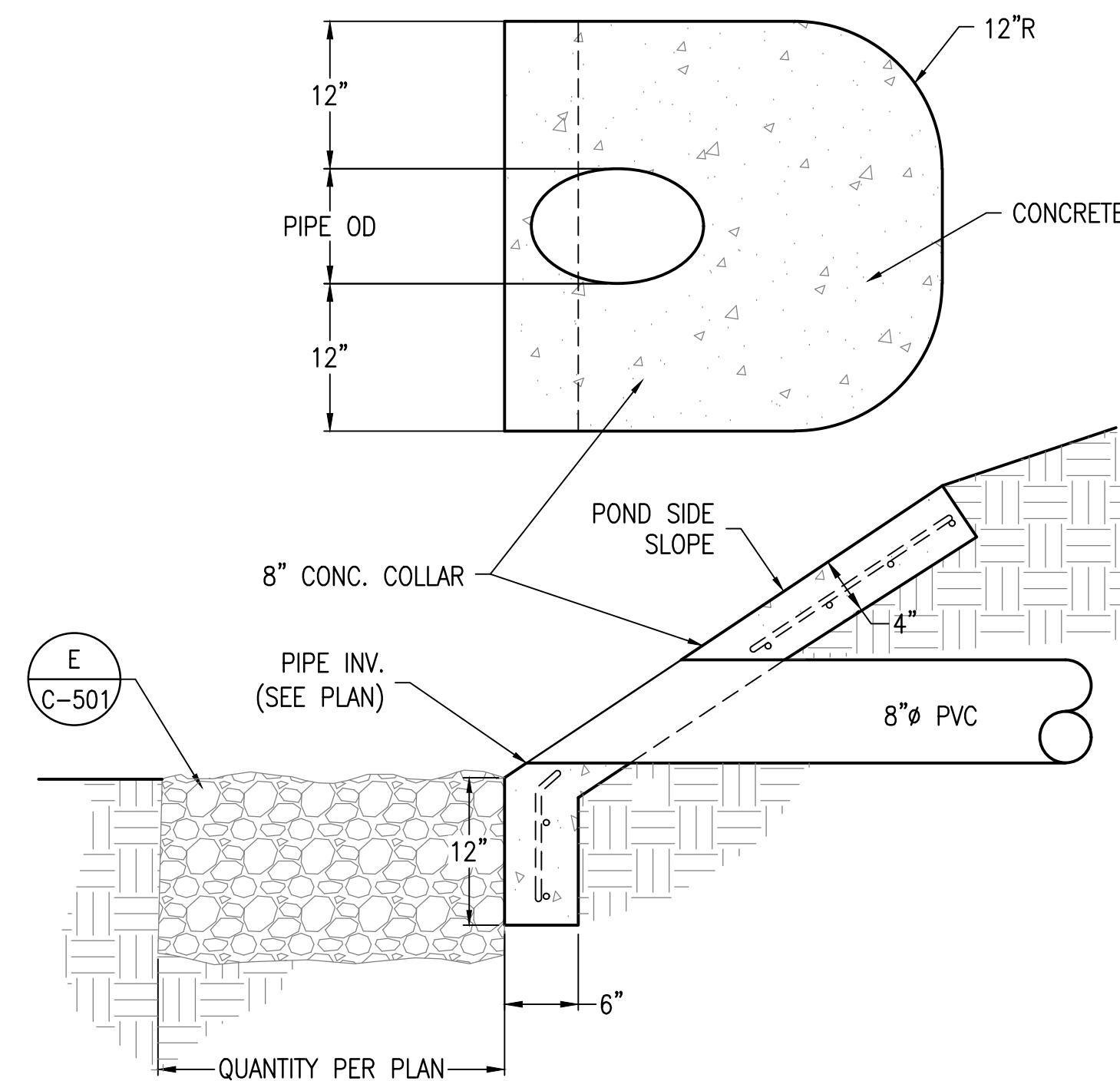
TYPE III SILT FENCE

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

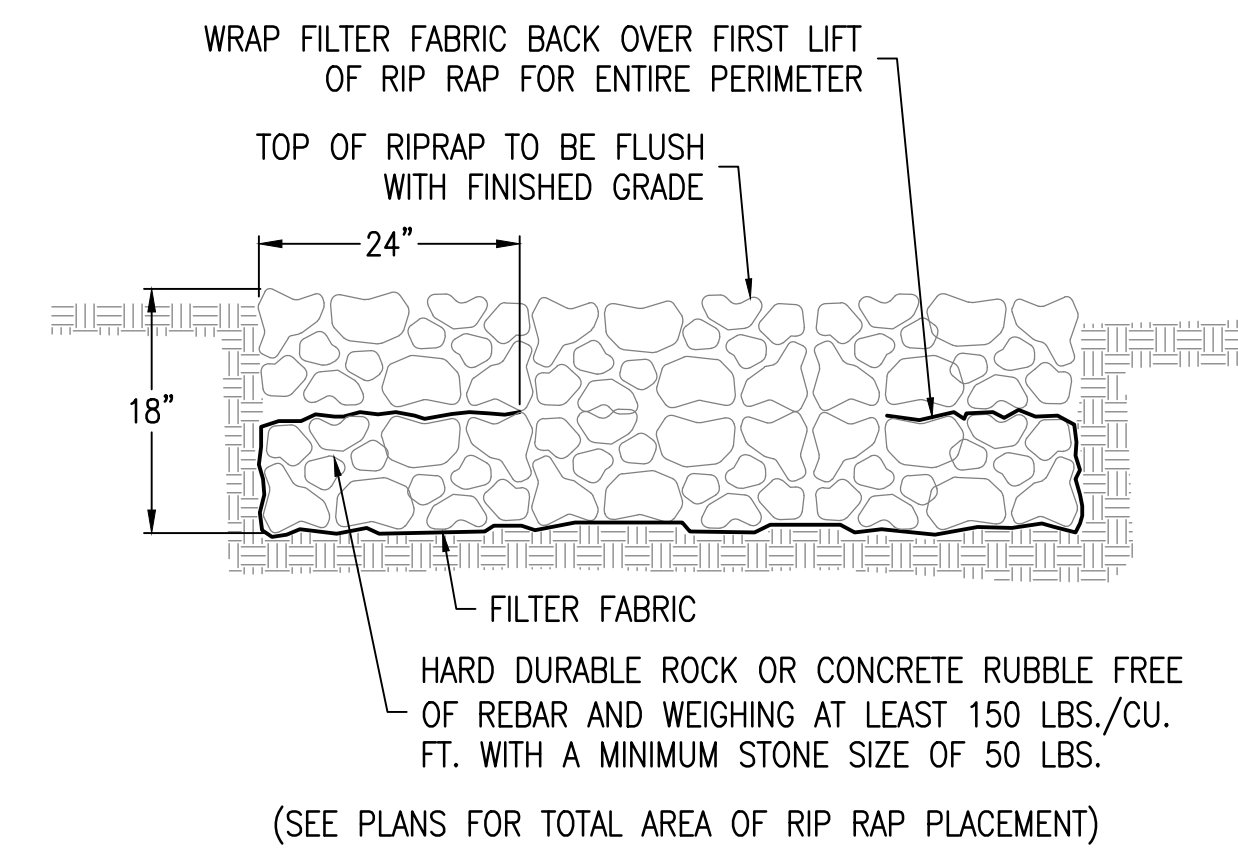
C SILT FENCE APPLICATIONS
C-501 N.T.S.

EROSION AND SEDIMENTATION CONTROL NOTES

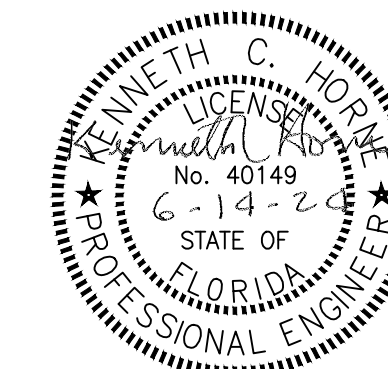
1. SILT FENCE SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT FENCES TIGHTLY ABUTTING ONE ANOTHER PRIOR TO EARTHWORK OPERATIONS.
2. THE SILT FENCE BARRIER SHALL BE ENTRENCHED AND BACK FILLED. A TRENCH SHALL BE EXCAVATED THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 6 INCHES. THE EXCAVATED SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER.
3. SILT FENCE BARRIERS SHALL BE SECURELY ANCHORED.
4. SILT FENCE BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
6. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE, END RUNS AND UNDERCUTTING BENEATH FENCE.
7. NECESSARY REPAIRS TO SILT FENCE BARRIERS OR REPLACEMENT OF FENCE SHALL BE ACCOMPLISHED PROMPTLY.
8. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE BARRIER.
9. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE.



D 8" CONCRETE COLLAR DETAIL
C-501 N.T.S.

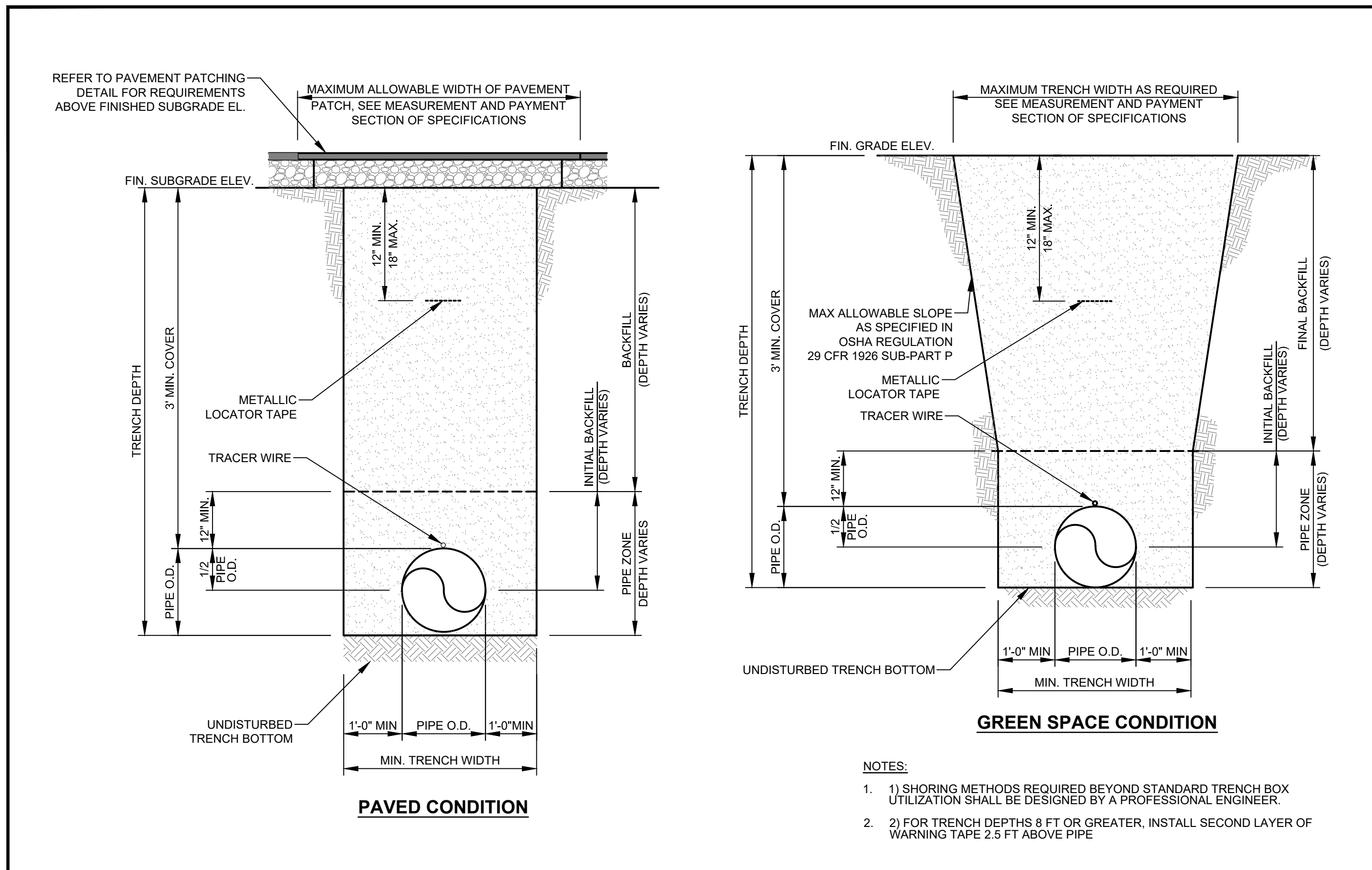


E RIPRAP DETAIL
C-501 N.T.S.

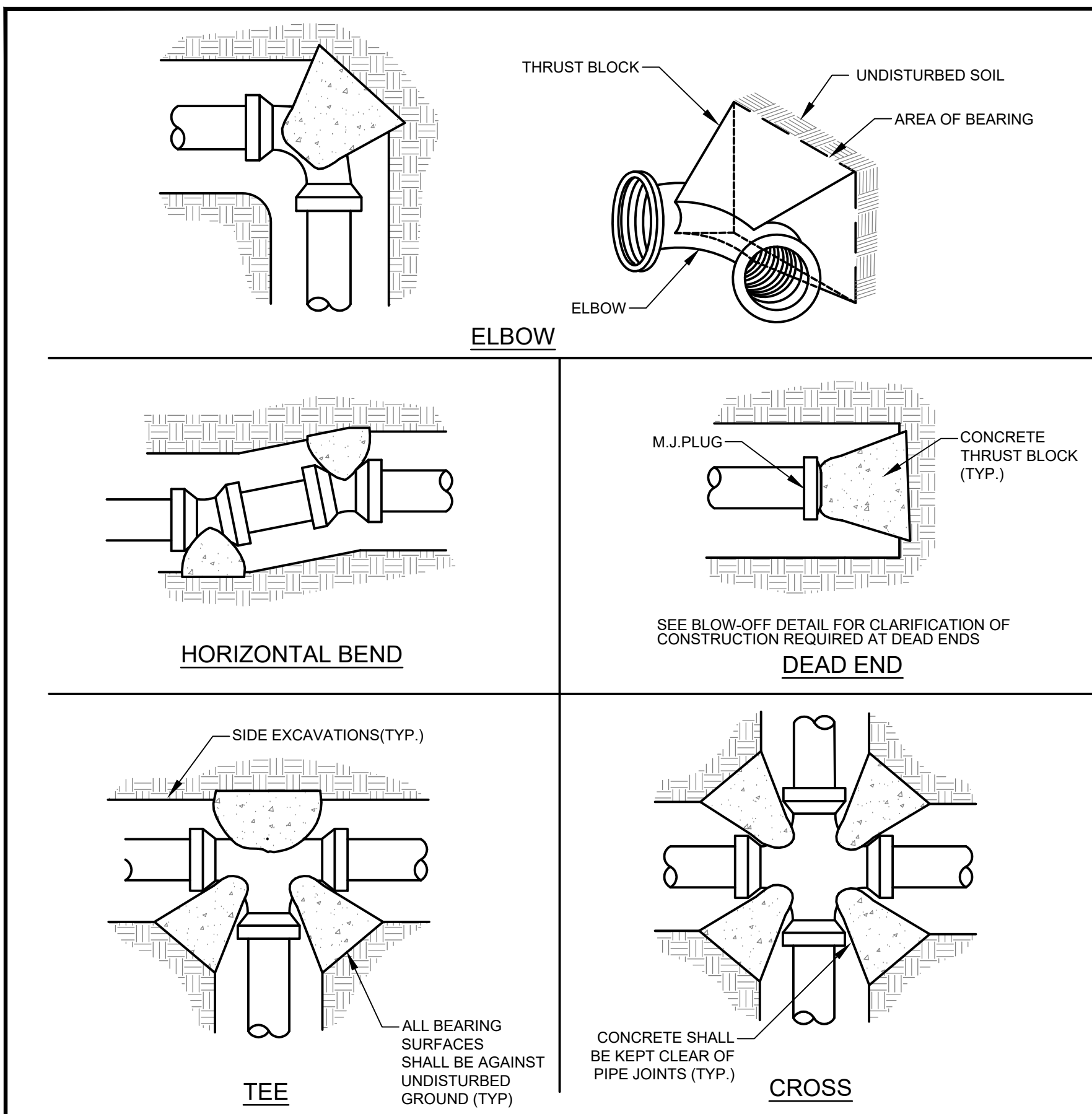


REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	RENTZ			
PROJ. ENGR.	HORNE			
CONTENTS		DETAILS		
APPROVED		96 CEG/CEN		DATE 14 JUNE 2024
APPROVED		BASE CIVIL ENGINEER		SCALE AS SHOWN
SPEC. NO. 24AC	PROJ. NO. FTFA 23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 5 OF 52

INDEX NO.
C-501



- NOTES:**
- 1) SHORING METHODS REQUIRED BEYOND STANDARD TRENCH BOX UTILIZATION SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
 - 2) FOR TRENCH DEPTHS 8 FT OR GREATER, INSTALL SECOND LAYER OF WARNING TAPE 2.5 FT ABOVE PIPE



MINIMUM CONCRETE BLOCKING (C.Y.)						
NOM. PIPE DIA. IN.	TEES & DEAD ENDS	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	
4	1/3	1/3	1/3	1/3	1/3	
6	1/3	1/3	1/3	1/3	1/3	
8	1/3	1/2	1/3	1/3	1/3	
10	2/3	3/4	1/2	1/3	1/3	
12	3/4	1.0	2/3	1/3	1/3	
14	1.0	1-1/2	3/4	1/2	1/3	
16	1-1/3	2.0	1.0	1/2	1/3	
18	1-2/3	2-1/3	1-1/3	2/3	1/3	
20	2.0	3.0	1-2/3	3/4	1/2	
24	3.0	4-1/3	2-1/3	1-1/3	2/3	

- NOTES:**
1. CONCRETE BLOCKING SHALL NOT BE USED UNLESS APPROVED BY THE UTILITY.
 2. THRUST BLOCKS SHALL BE INSTALLED ON PIPE DISTRIBUTION LINES 6" THRU 12" DIA. IN THE MANNER SHOWN ONLY WHEN THE REQUIRED LENGTHS OF RESTRAINED JOINT PIPE CANNOT BE INSTALLED.
 3. IF CONCRETE IS MIXED ON-SITE, MIXING MUST BE DONE UTILIZING A MECHANICAL MIXER.
 4. NO CONCRETE SHALL BE PLACED ON BOLTS. WRAP JOINT FITTINGS WITH PLASTIC.
 5. CONCRETE SHALL BE A MINIMUM 3,000 psi.

American States
Utility Services, Inc.
A Subsidiary of American States Water Company

DRAWING NAME TRENCHING DETAIL FOR WATER PIPE					SCALE N.T.S.
REVISIONS					DWG NO. W-1
REV. NO.	REV. DESCRIPTION	BY	DATE	APP.	

American States
Utility Services, Inc.
A Subsidiary of American States Water Company

DRAWING NAME CONCRETE THRUST BLOCK					SCALE N.T.S.
REVISIONS					DWG NO. W-21
REV. NO.	REV. DESCRIPTION	BY	DATE	APP.	

Restrained Joint Table

Pipe Material:	PVC	Trench Type:	3
Soil Classification:	SM	Factor of Safety:	2
Depth of Bury:	3 FT	Test Pressure:	200 psi

Horizontal Bends				
Fitting Type				
	90	45	22.5	11.25
4"	32'	13'	7'	4'
6"	44'	19'	9'	5'
8"	57'	24'	12'	6'
10"	68'	29'	14'	7'
12"	80'	33'	16'	8'
16"	101'	42'	21'	10'

Dead Ends/Valves	
4"	70'
6"	98'
8"	128'
10"	154'
12"	181'
16"	233'

Reducers			
4"x3"	23'	12"x6"	132'
6"x4"	51'	12"x8"	96'
8"x4"	92'	12"x10"	53'
8"x6"	54'	16"x4"	215'
10"x4"	125'	16"x6"	196'
10"x6"	95'	16"x8"	170'
10"x8"	52'	16"x10"	138'
12"x4"	157'	16"x12"	99'

Vertical Bends			
Lowside Depth of 7' Pipe Bury			
	45	22.5	11.25
4"	29'	14'	7'
6"	41'	20'	10'
8"	53'	26'	13'
10"	64'	31'	16'
12"	75'	36'	18'
16"	97'	47'	23'

Lowside Depth of 10' Pipe Bury			
	45	22.5	11.25
4"	29'	14'	7'
6"	41'	20'	10'
8"	53'	26'	13'
10"	64'	31'	16'
12"	75'	36'	18'
16"	97'	47'	23'

4" Main		6" Main		8" Main		10" Main		12" Main		16" Main	
4" x 3"	1'	6" x 4"	1'	8" x 4"	1'	10" x 4"	1'	12" x 4"	1'	16" x 4"	1'
4" x 4"	21'	6" x 6"	49'	8" x 6"	33'	10" x 6"	13'	12" x 6"	1'	16" x 6"	1'
				8" x 8"	79'	10" x 8"	60'	12" x 8"	52'	16" x 8"	22'
						10" x 10"	99'	12" x 10"	86'	16" x 12"	111'
								12" x 12"	130'	16" x 16"	181'

*Restrained Lengths Assume Length of Run on Main is 10' on either side of tee

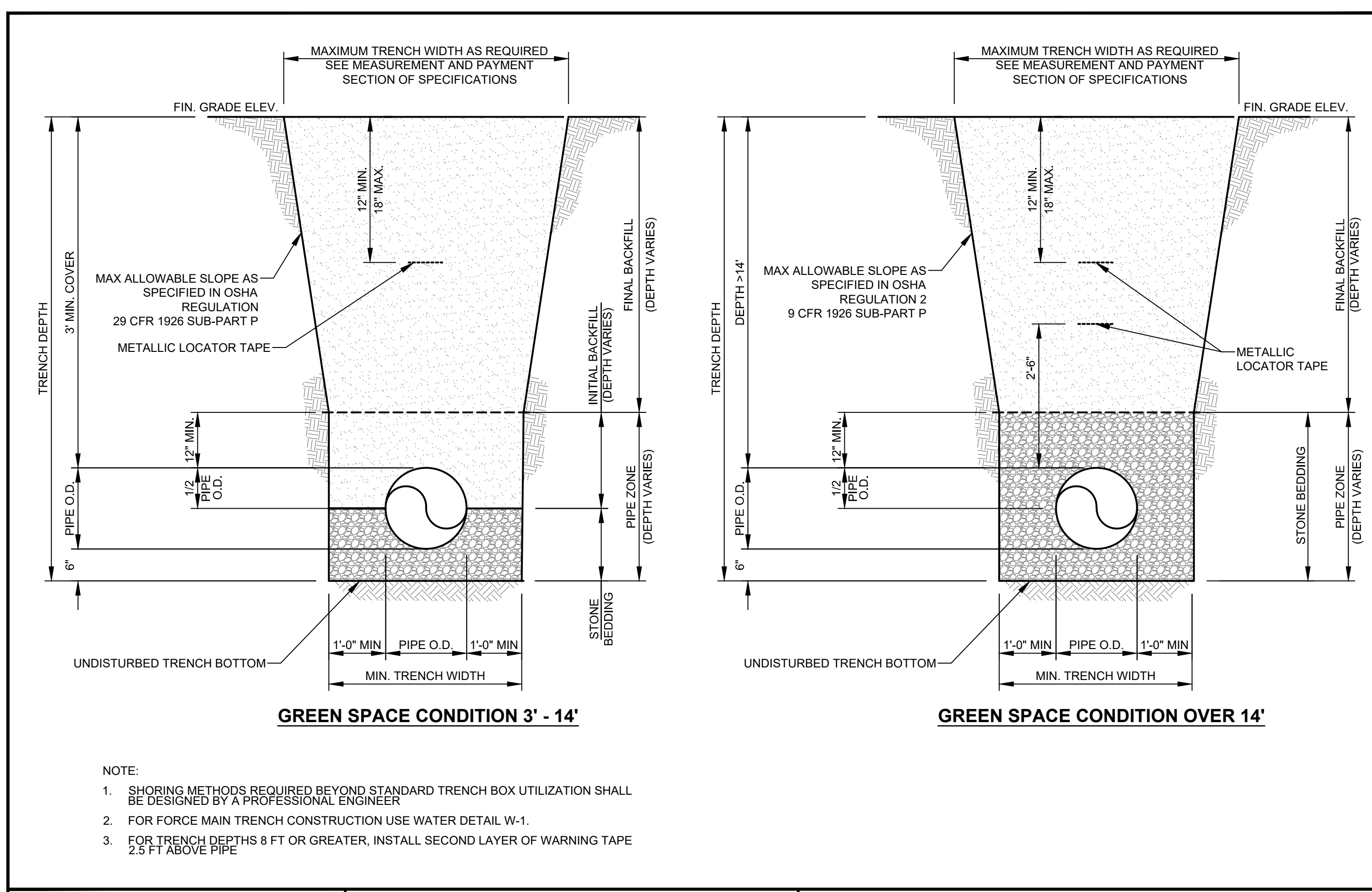
American States
Utility Services, Inc.
A Subsidiary of American States Water Company

DRAWING NAME RESTRAINED JOINT TABLE					SCALE N.T.S.
REVISIONS					DWG NO. W-22
REV. NO.	REV. DESCRIPTION	BY	DATE	APP.	



REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	RENTZ			
PROJ. ENGR.	HORNE			
CONTENTS		DETAILS		
APPROVED	96 CEG/CEN			DATE
APPROVED	BASE CIVIL ENGINEER			SCALE
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	SHEET
24AC	FTFA 23VH48	24AC		6 OF 52

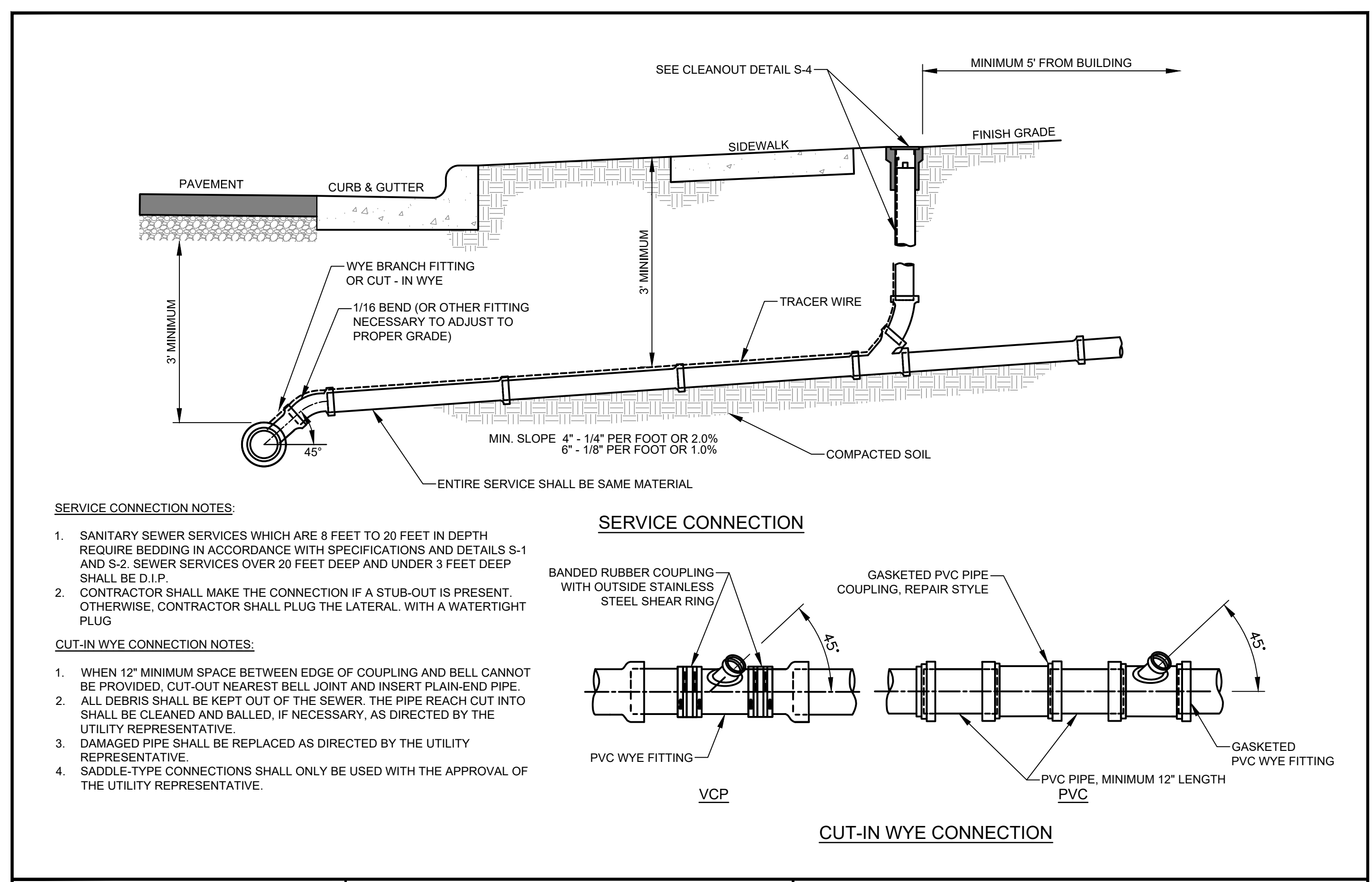
INDEX NO.
C-502



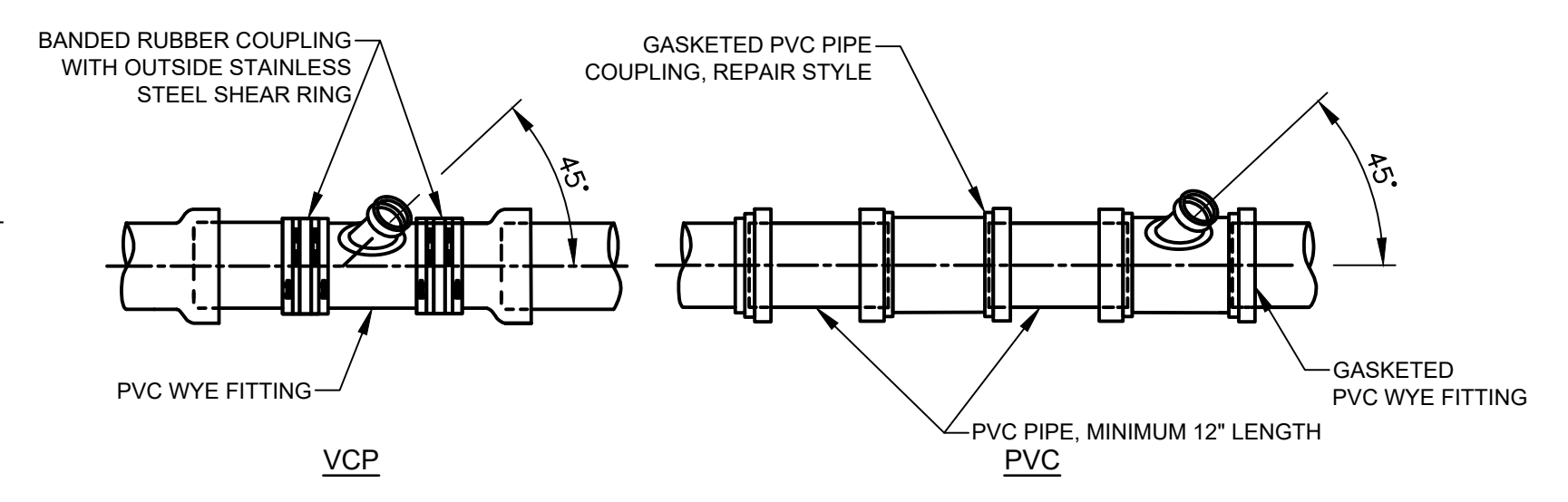
- NOTE:
1. SHORING METHODS REQUIRED BEYOND STANDARD TRENCH BOX UTILIZATION SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
 2. FOR FORCE MAIN TRENCH CONSTRUCTION USE WATER DETAIL W-1.
 3. FOR TRENCH DEPTHS 8 FT OR GREATER, INSTALL SECOND LAYER OF WARNING TAPE 2.5 FT ABOVE PIPE.

American States Utility Services, Inc.
A Subsidiary of American States Water Company

DRAWING NAME TRENCHING GRAVITY SEWER PIPE UNDER GREEN SPACE				
REVISIONS				
REV. NO.	REV. DESCRIPTION	BY	DATE	APP.
SCALE				N.T.S.
DWG NO				S-2

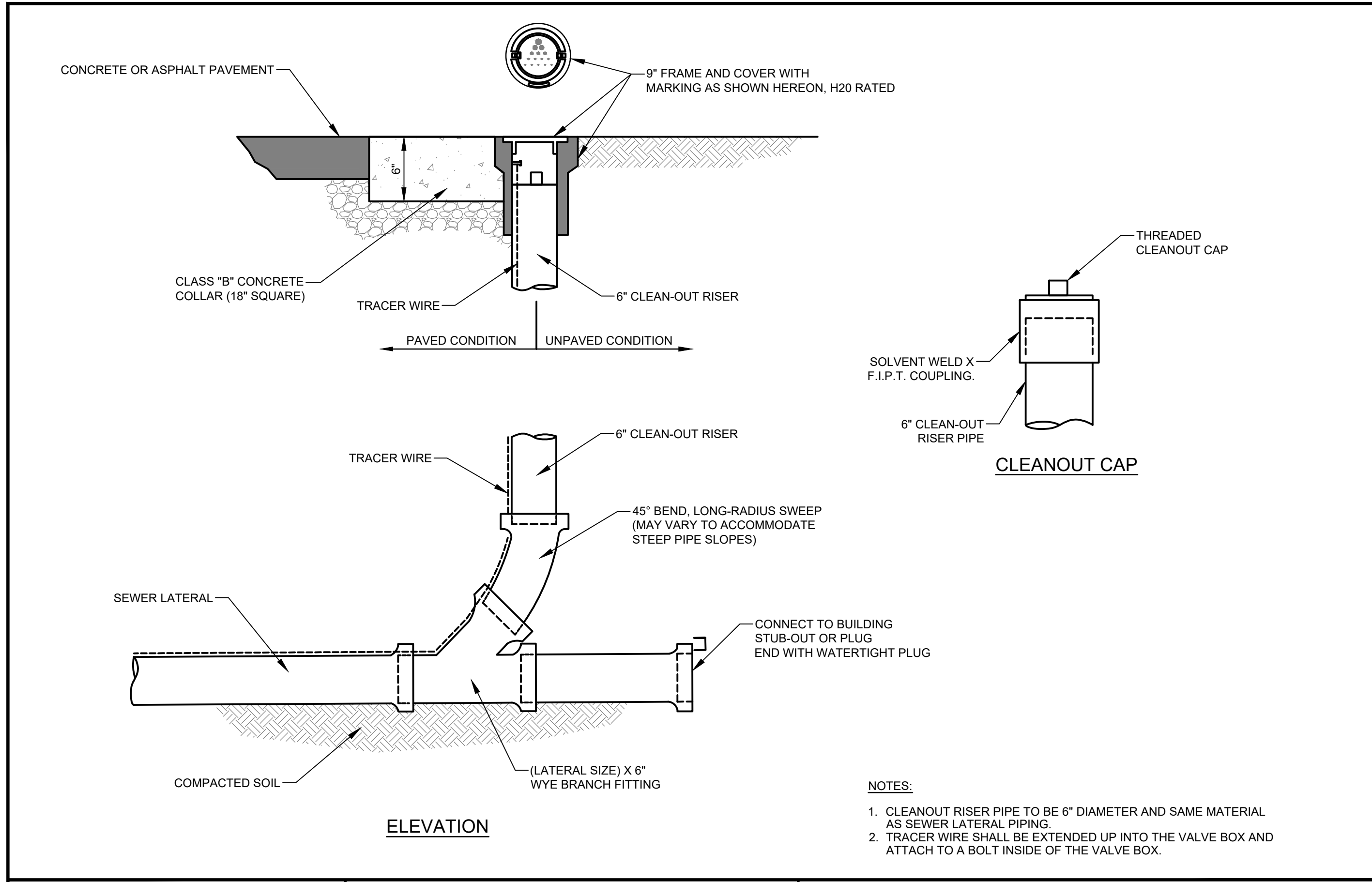


- SERVICE CONNECTION NOTES:**
1. SANITARY SEWER SERVICES WHICH ARE 8 FEET TO 20 FEET IN DEPTH REQUIRE BEDDING IN ACCORDANCE WITH SPECIFICATIONS AND DETAILS S-1 AND S-2. SEWER SERVICES OVER 20 FEET DEEP AND UNDER 3 FEET DEEP SHALL BE D.I.P.
 2. CONTRACTOR SHALL MAKE THE CONNECTION IF A STUB-OUT IS PRESENT. OTHERWISE, CONTRACTOR SHALL PLUG THE LATERAL WITH A WATERTIGHT PLUG.
- CUT-IN WYE CONNECTION NOTES:**
1. WHEN 12" MINIMUM SPACE BETWEEN EDGE OF COUPLING AND BELL CANNOT BE PROVIDED, CUT-OUT NEAREST BELL JOINT AND INSERT PLAIN-END PIPE.
 2. ALL DEBRIS SHALL BE KEPT OUT OF THE SEWER. THE PIPE REACH CUT INTO SHALL BE CLEANED AND BALLED, IF NECESSARY, AS DIRECTED BY THE UTILITY REPRESENTATIVE.
 3. DAMAGED PIPE SHALL BE REPLACED AS DIRECTED BY THE UTILITY REPRESENTATIVE.
 4. SADDLE-TYPE CONNECTIONS SHALL ONLY BE USED WITH THE APPROVAL OF THE UTILITY REPRESENTATIVE.



American States Utility Services, Inc.
A Subsidiary of American States Water Company

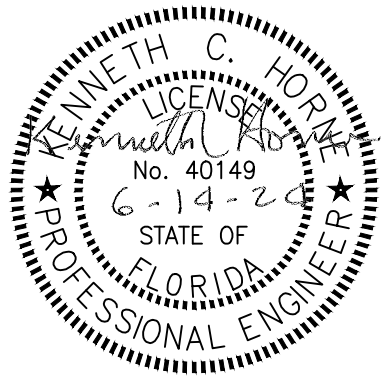
DRAWING NAME 4" - 6" SANITARY SEWER SERVICE CONNECTIONS				
REVISIONS				
REV. NO.	REV. DESCRIPTION	BY	DATE	APP.
SCALE				N.T.S.
DWG NO				S-3



- NOTES:
1. CLEANOUT RISER PIPE TO BE 6" DIAMETER AND SAME MATERIAL AS SEWER LATERAL PIPING.
 2. TRACER WIRE SHALL BE EXTENDED UP INTO THE VALVE BOX AND ATTACH TO A BOLT INSIDE OF THE VALVE BOX.

American States Utility Services, Inc.
A Subsidiary of American States Water Company

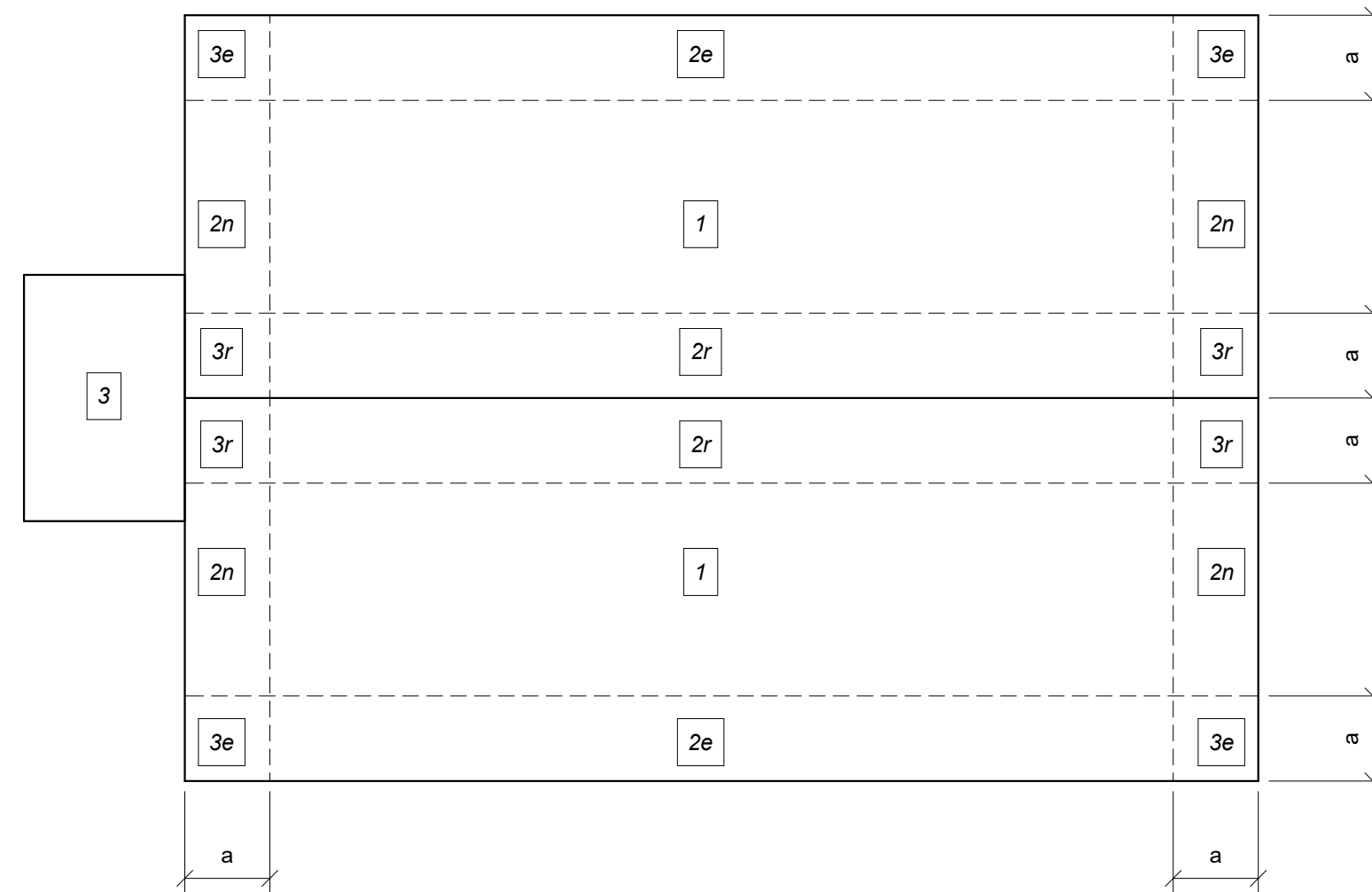
DRAWING NAME SEWER CLEANOUT				
REVISIONS				
REV. NO.	REV. DESCRIPTION	BY	DATE	APP.
SCALE				N.T.S.
DWG NO				S-4



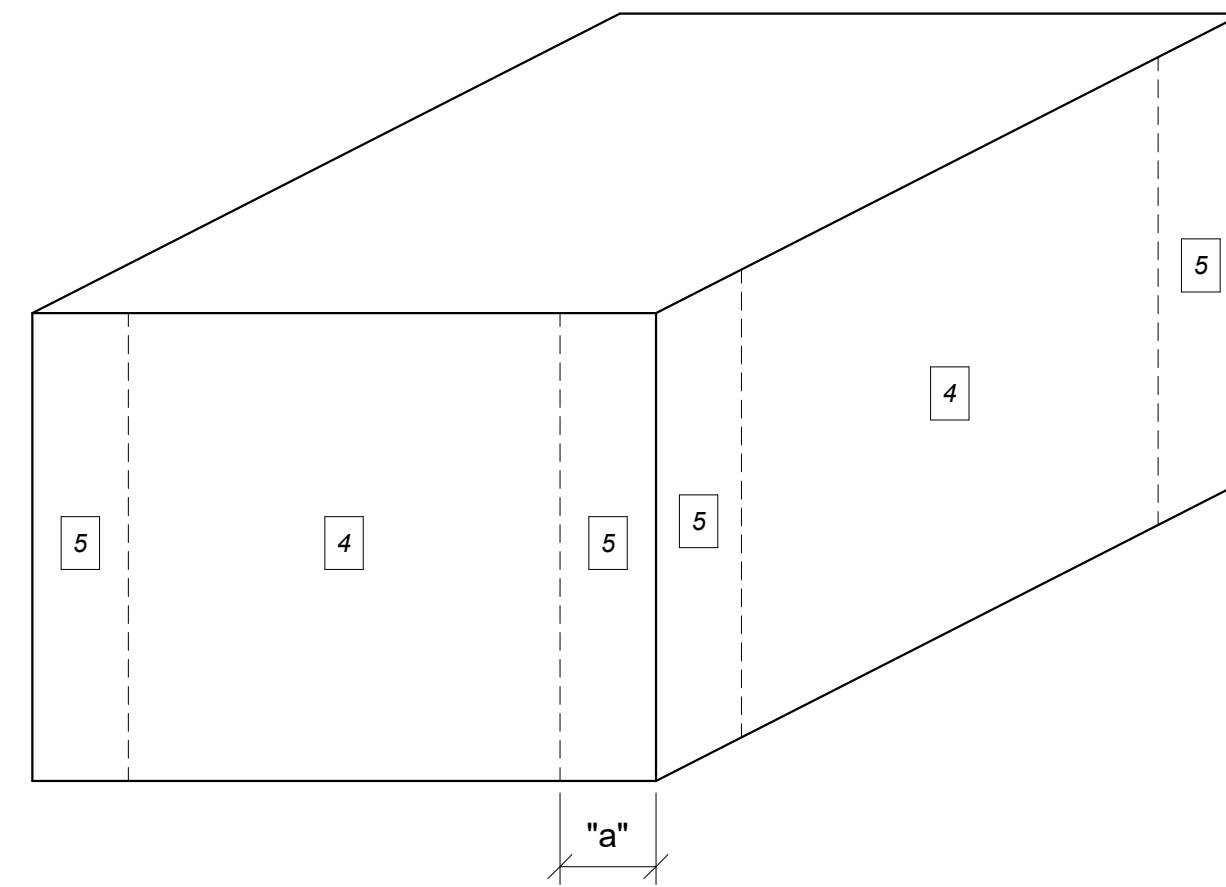
REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE		TITLE		
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	RENTZ			
PROJ. ENGR.	HORNE			
CONTENTS		DETAILS		
APPROVED		DATE		
96 CEG/CEN		14 JUNE 2024		
APPROVED		SCALE		
BASE CIVIL ENGINEER		AS SHOWN		
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	SHEET
24AC	FTFA 23VH48	24AC		7 OF 52

INDEX NO.
C-503

ROOF WIND PRESSURE DIAGRAM
NOTE: a=5'-6"



WALL WIND PRESSURE DIAGRAM
NOTE: a=5'-6"



COMPONENTS AND CLADDING WIND

NOTE: a = 5'-6" INTERNAL PRESSURE COEFFICIENT = +/-0.18

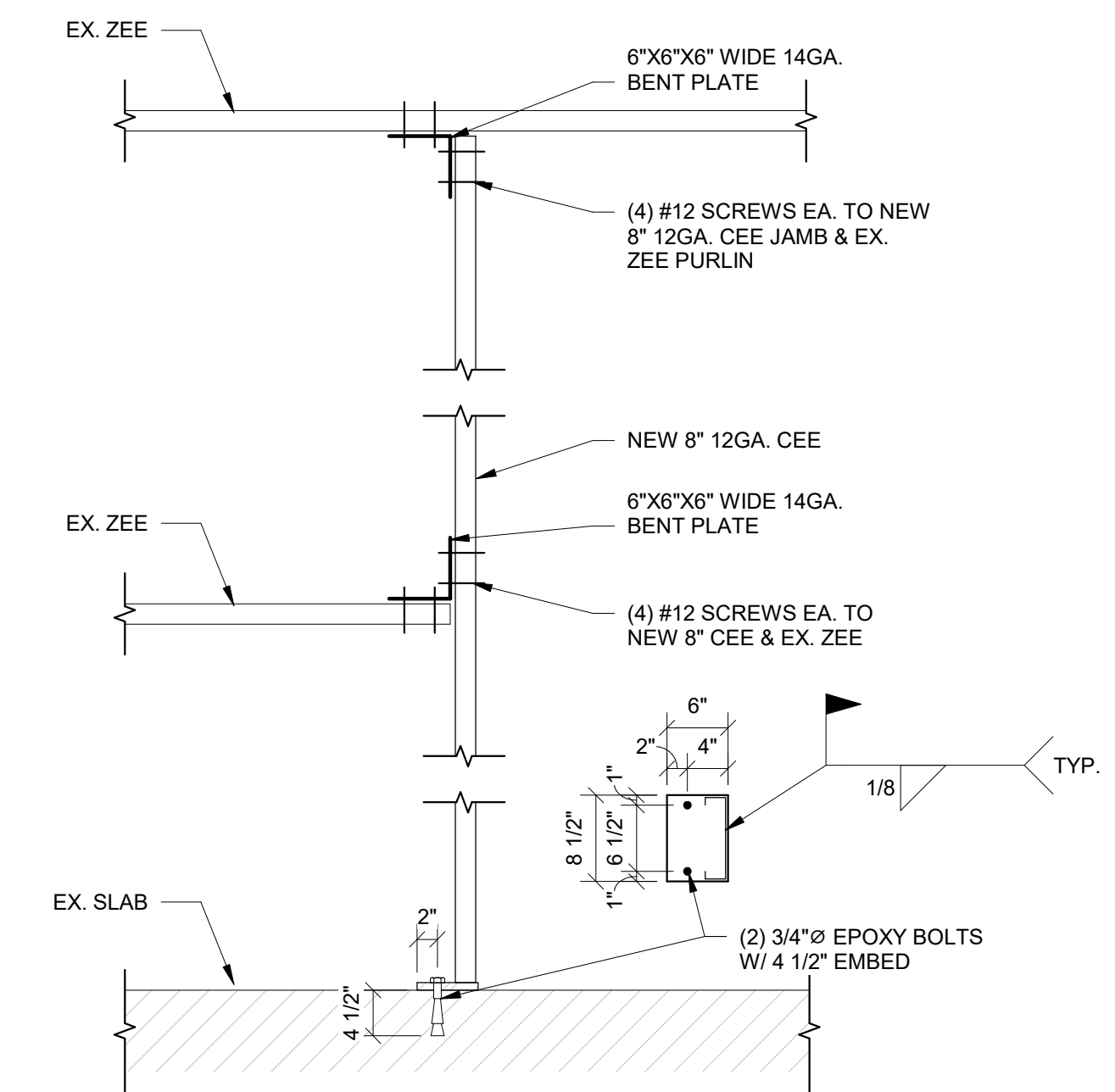
ZONE (SEE FIGURE)	WIND PRESSURE (+) / SUCTION (-) IN POUNDS PER SF							
	EFFECTIVE WIND AREA (FEET SQUARE)							
	10		20		50		100	
	+	-	+	-	+	-	+	-
ROOF ZONE 1								
ROOF ZONE 2e		-90.8		-90.8		-55.2		-28.3
ROOF ZONE 2n	29.8	-132.4	26.8	-114.5	22.9	-90.8	20.0	-72.8
ROOF ZONE 2r								
ROOF ZONE 3e								
ROOF ZONE 3r		-157.4		-134.8		-105.0		-82.4
ROOF ZONE 3	23.7	-125.7	22.4	-114.6	20.8	-100.0	19.6	-89.0
WALL ZONE 4	49.1	-53.3	46.9	-51.1	44.0	-48.2	41.8	-45.9
WALL ZONE 5		-65.8		-61.4		-55.5		-51.1

MAIN WIND FORCE RESISTING WIND LOAD

INTERNAL PRESSURE COEFFICIENT = +/-0.18

MAIN WIND FORCE RESISTING SYSTEM PRESSURES		
WIND VELOCITY	ROOF ENCLOSED	WALL ENCLOSED
(MPH)	(PSF)	(PSF)
145	-39.4	45.1

EXISTING BUILDING WALL OPENING DETAIL (SEE ARCH. FOR LOCATION)

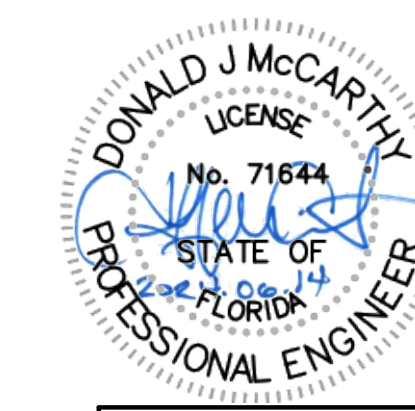


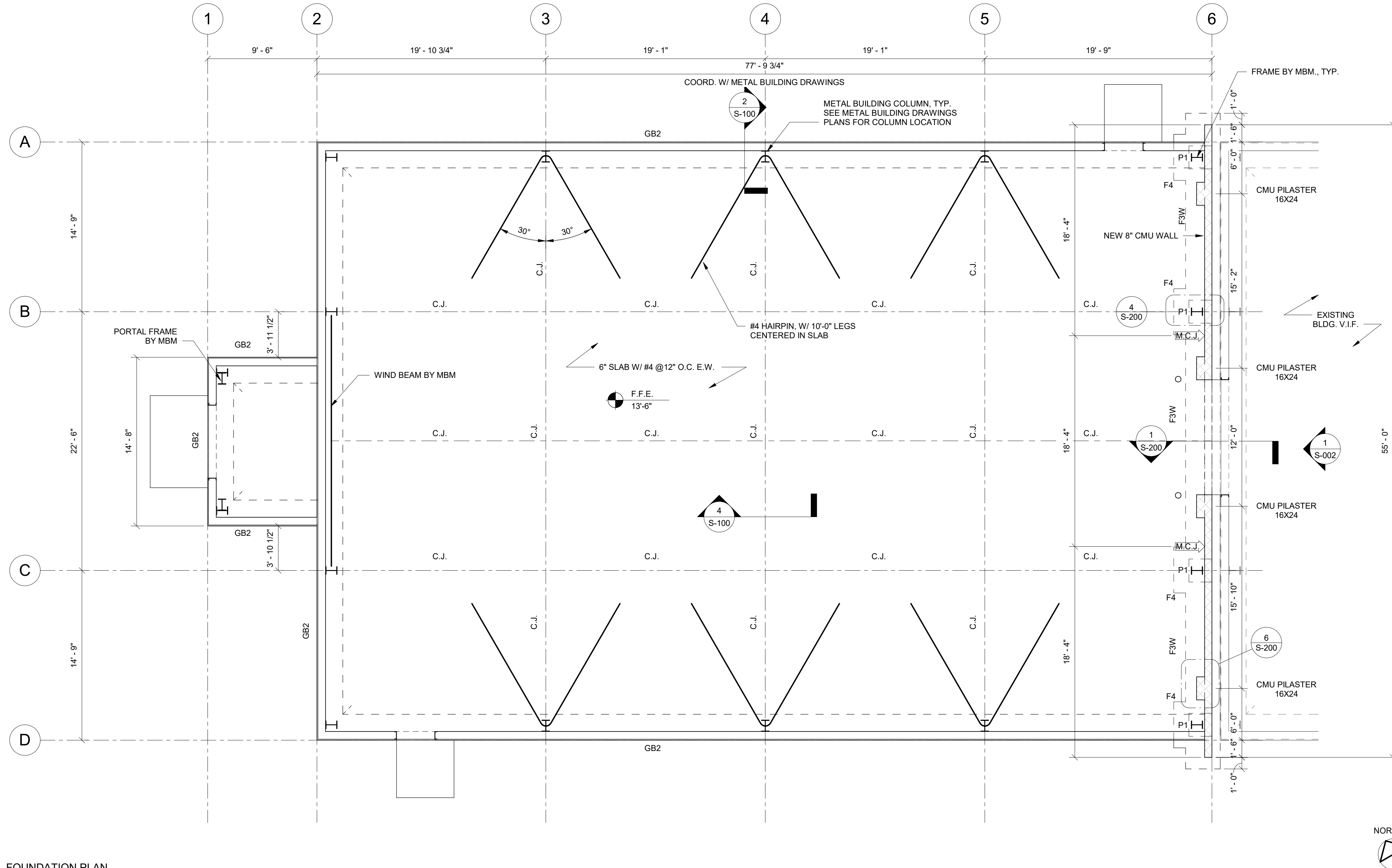
① **NEW WALL OPENING DETAIL**
3/4" = 1'-0"

NOTES:

- POSITIVE SIGN INDICATES THAT THE PRESSURE IS ACTING TOWARDS THE SURFACE. NEGATIVE SIGN INDICATES THAT THE PRESSURE IS ACTING AWAY FROM THE STRUCTURE.
- THE WIND LOADS SHOWN HAVE BEEN CALCULATED PER INTERNATIONAL BUILDING CODE 2021 EDITION AND ASCE 7-16. LINEAR INTERPOLATION MAY BE APPLIED FOR LOADING AREAS BETWEEN THE PROVIDED. LOADS SHOWN ARE ULTIMATE LOADS AND MAY BE FACTORED BY 0.6 WHEN APPLICABLE TO REDUCE TO ASD LOADING PRESSURES.

REVISION	DATE	DESCRIPTION	BY	APPRD
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE	96 CEG/CEN			
APPROVED	DATE 14 JUNE 2024			
CENM	SCALE AS SHOWN			
DRAWN BY WEH	BASE CIVIL ENGINEER			
PROJ. ENGR. DJM	CONTENTS			
WIND PRESSURES & STRUCTURAL DETAIL(S)				
INDEX NO.	APPROVED			
S-002	DATE 14 JUNE 2024			
SPEC. NO. 24AC	PROJ. NO. FTFA 23VH48	DRAWING NO. 24AC	FILE NO. XXXX	SHEET 9 OF 50



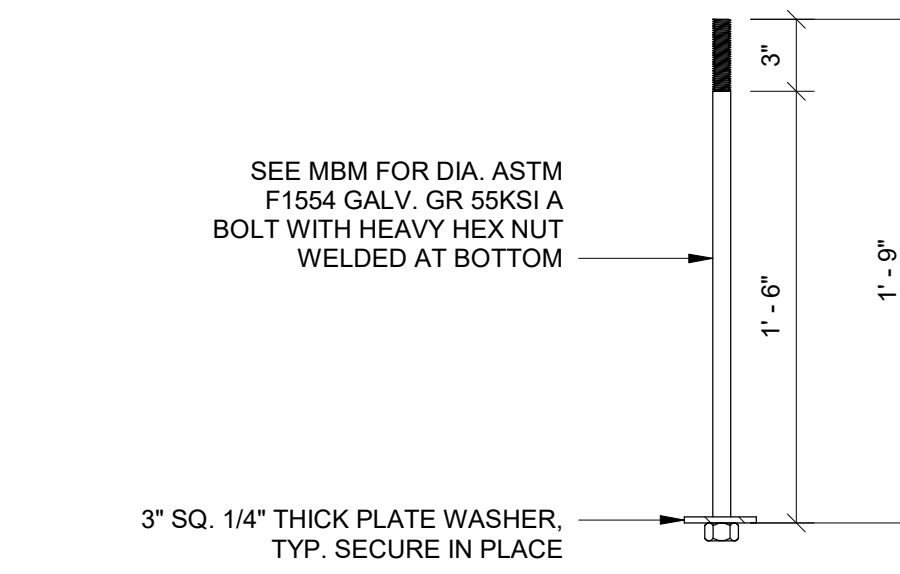
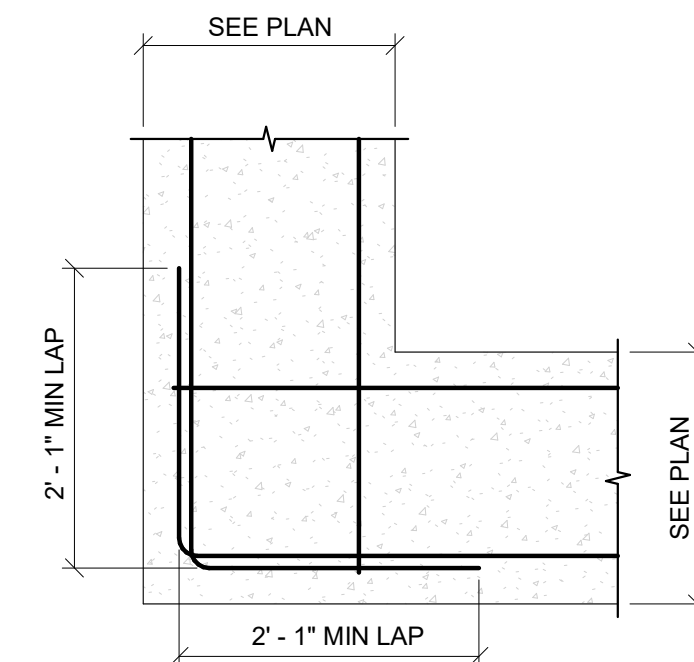
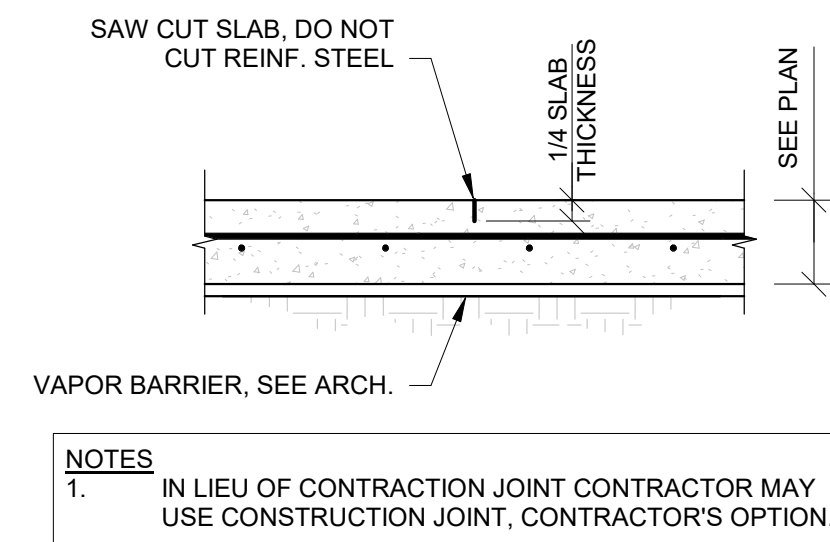
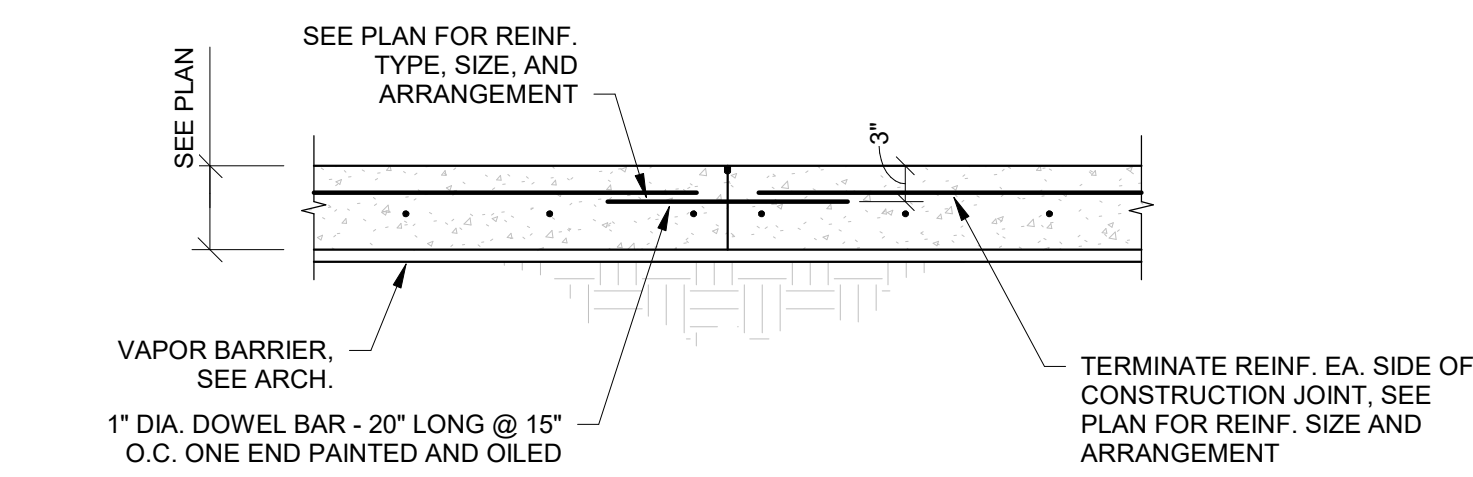
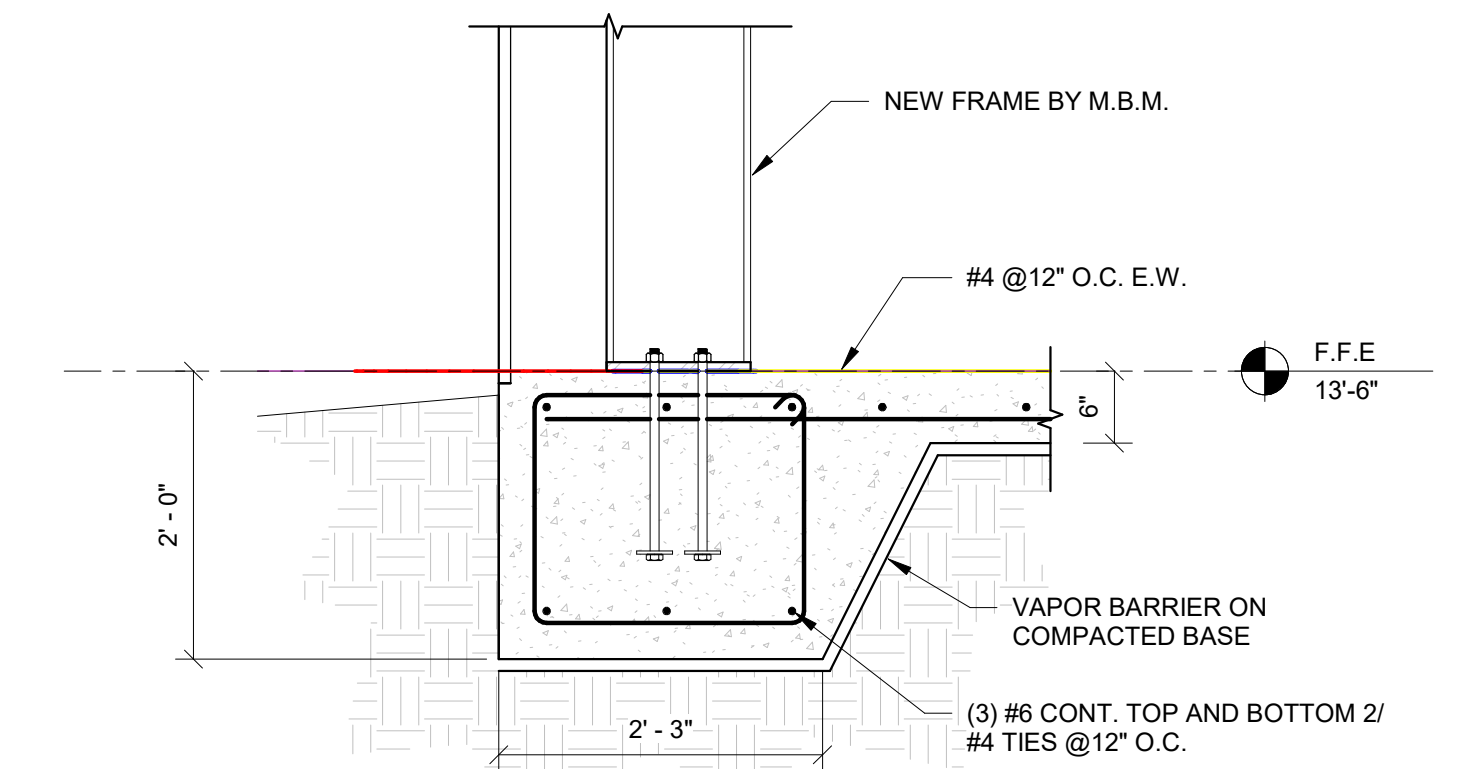


FOUNDATION PLAN NOTES

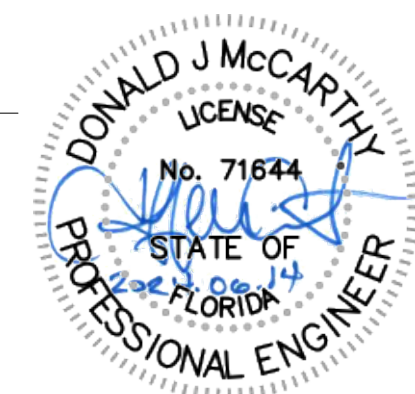
- FINISH FLOOR ELEVATION - 0'-0", U.N.O.
- COORDINATE ALL FLOOR DRAIN (FD) LOCATIONS WITH PLUMBING DRAWINGS
- TYPICAL FLOOR SLAB SHALL BE 6" CONCRETE SLAB REINFORCED WITH W/ #4 @12" O.C., E.W.
- SEE ARCHITECTURAL AND EQUIPMENT MANUFACTURER CUT-SHEET DRAWINGS FOR ALL SLOPE REQUIREMENTS AND WALL OPENINGS. THE FOUNDATION PLAN SHOWS ALL OPENINGS CUT +2'-0" ABOVE F.F.E. REFERENCE.
- LOCATIONS OF ALL COLUMNS TO BE COORDINATED WITH THE FINAL APPROVED SPECIALTY ENGINEER BUILDING DRAWINGS WHICH SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER. SEE SPECIALTY ENGINEERING REQUIREMENTS.
- COORDINATE ALL DERESSED SLABS WITH ARCHITECTURAL DRAWINGS.
- CONTRACTOR TO COORDINATE WITH CIVIL AND ARCHITECTURAL SITE PLANS FOR LOCATION AND ORIENTATION OF THE METAL BUILDING STRUCTURE.
- 8" CMU WALL SHALL BE FULLY GROUTED AND REINF. W/ #5 VERT @32" O.C. PROVIDE HORIZONTAL BOND BEAM @4'-8" O.C. SPACING FOR FULL HEIGHT OF WALL.
- P1 = PILASTER FOR PEMB COLUMN, SEE DETAILS.

FOUNDATION SCHEDULE

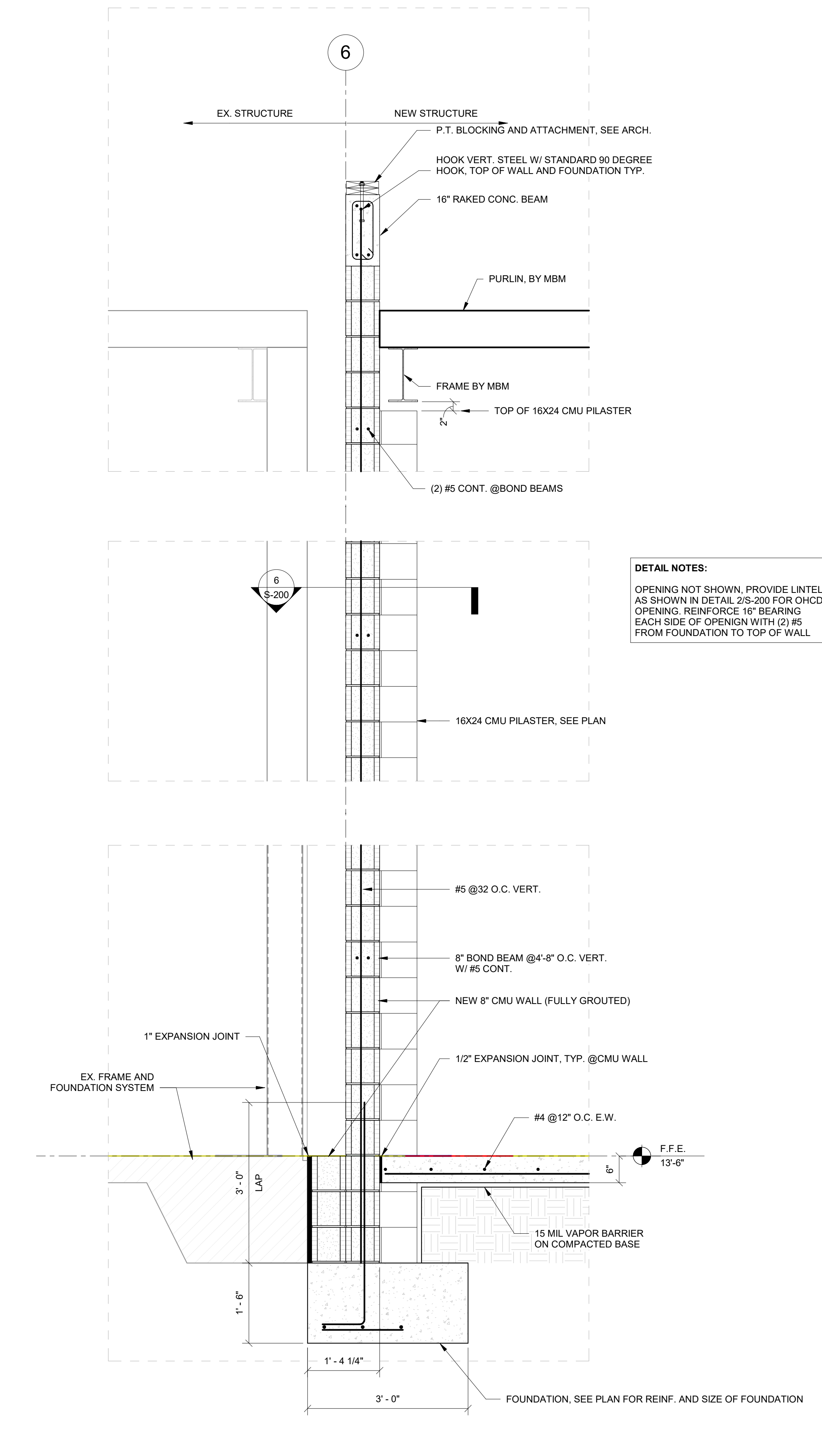
DESIGNATION	SIZE	REINFORCEMENT
F4.0	4'-0"x4'-0"x1'-6"	(4) #6 E.W. TOP & BOTTOM
F3W	3'-0"x1'-6" THICK	(3) #5 CONT. W/ #6 @12" O.C., TRANSV. BOTTOM



REVISION	DATE	DESCRIPTION	BY	APPRD
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE	CONTENTS			
APPROVED	FOUNDATION PLAN & DETAILS			
CENM	DATE 14 JUNE 2024			
DRAWN BY WEH	SCALE AS SHOWN			
PROJ ENGR DJM	BASE CIVIL ENGINEER			
SPEC. NO. 24AC	PROJ. NO. FTFA 23VH48	DRAWING NO. 24AC	FILE NO. XXXX	SHEET 10 OF 50

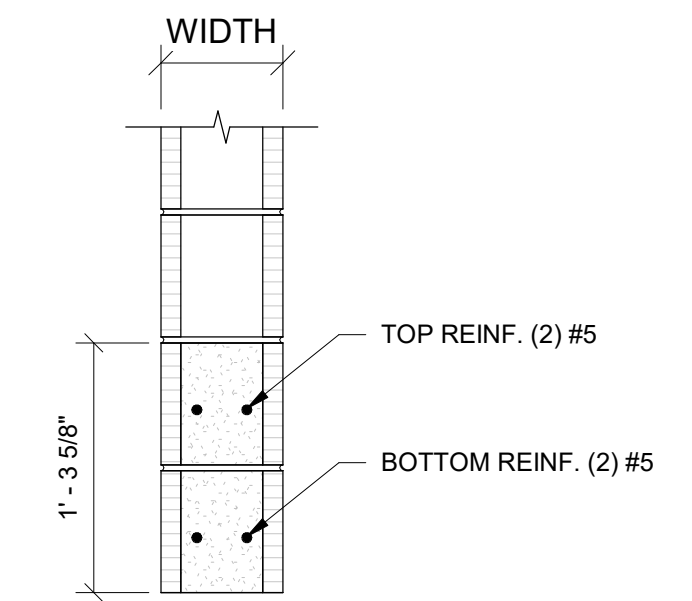


INDEX NO.
S-100

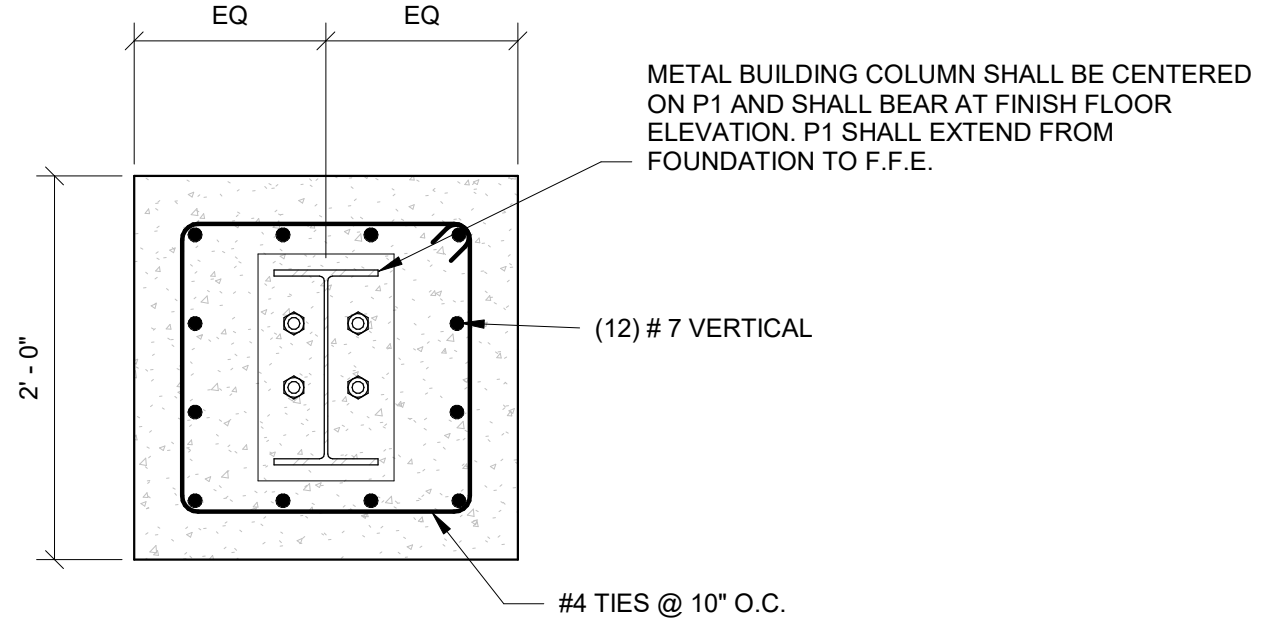


1 STRUCTURAL SECTION
3/4" = 1'-0"

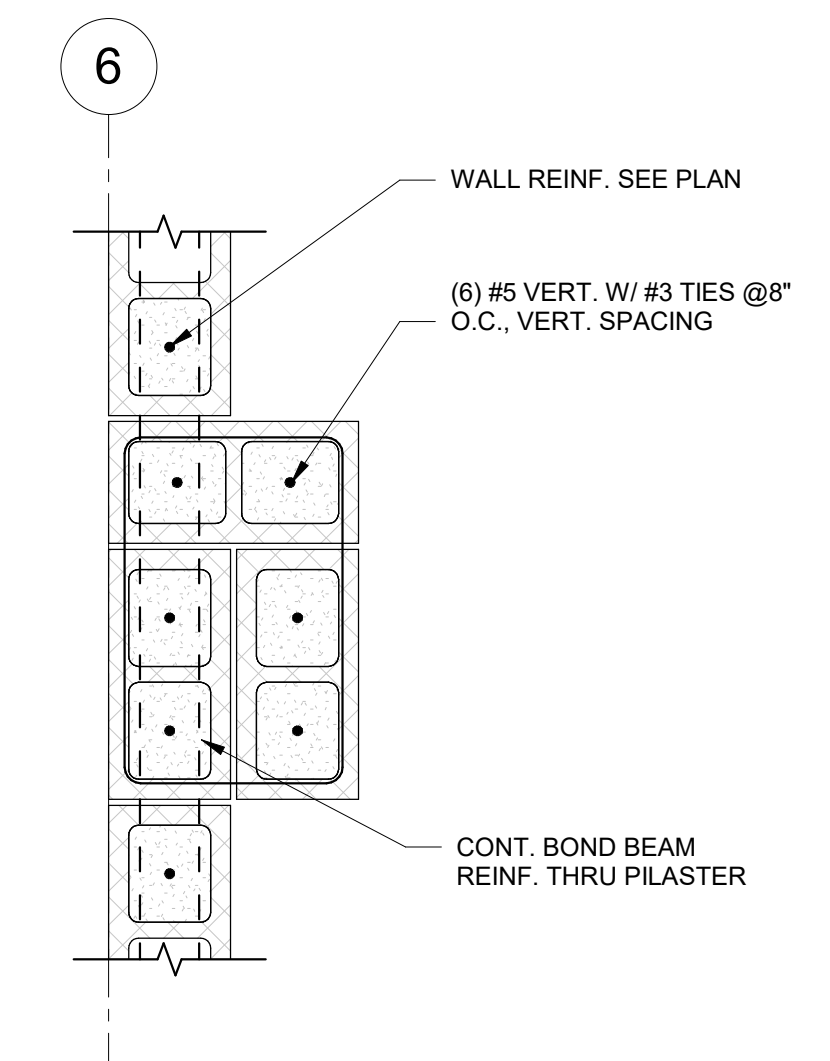
NOTES
 1. PROVIDE MINIMUM 16" BEARING FOR ALL LINTELS.
 2. HOT DIP GALVANIZE ALL EXPOSED STRUCTURAL STEEL, INCLUDING; ANGLES, THREADED RODS, BOLTS, NUTS, WASHERS ETC.



2 TYP. LINTEL DETAIL
1" = 1'-0"



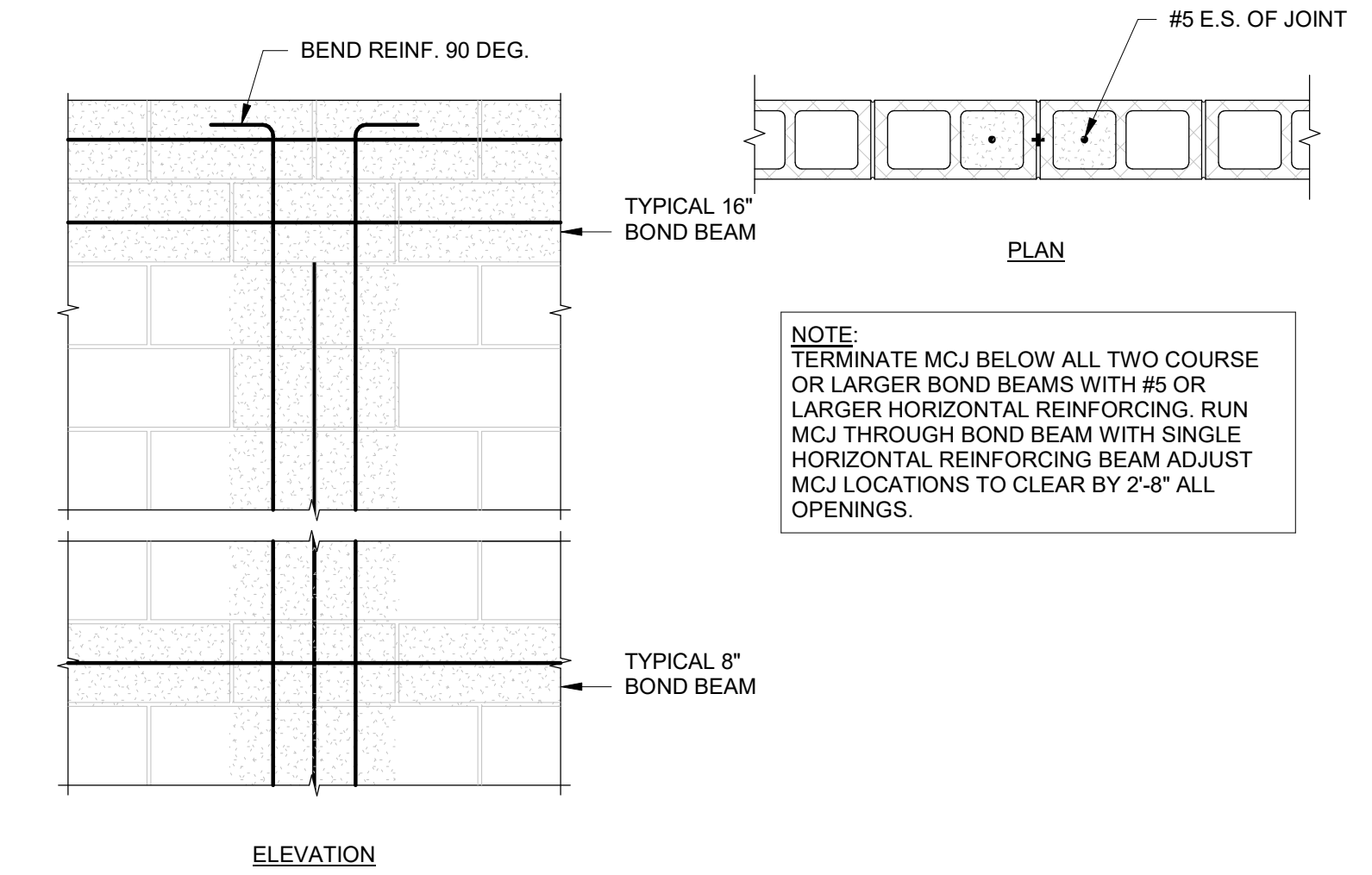
4 PILASTER DETAIL (P1) SEE PLAN
1" = 1'-0"



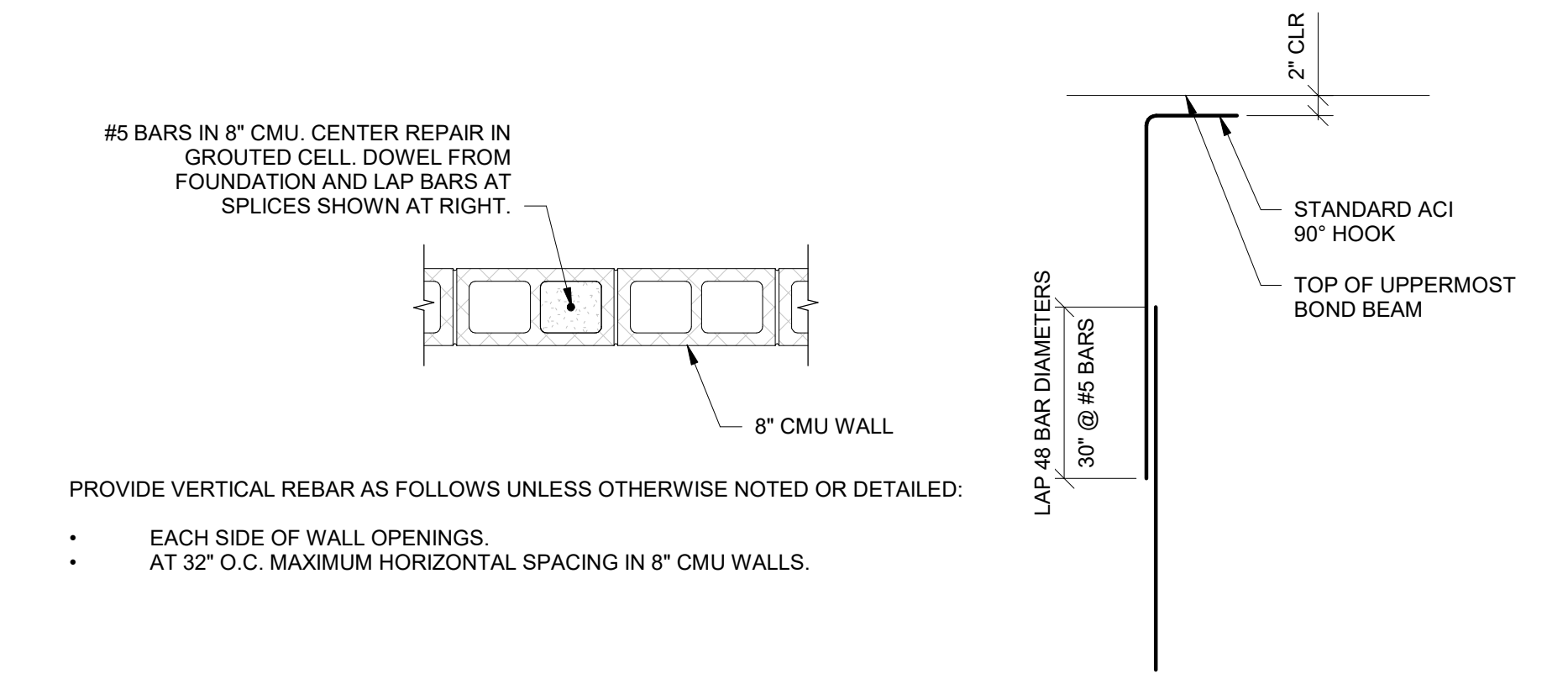
6 16X24 CMU PILASTER DETAIL
1" = 1'-0"

DETAIL NOTES:
 OPENING NOT SHOWN, PROVIDE LINTEL AS SHOWN IN DETAIL 2/S-200 FOR OHCD OPENING. REINFORCE 16" BEARING EACH SIDE OF OPENING WITH (2) #5 FROM FOUNDATION TO TOP OF WALL

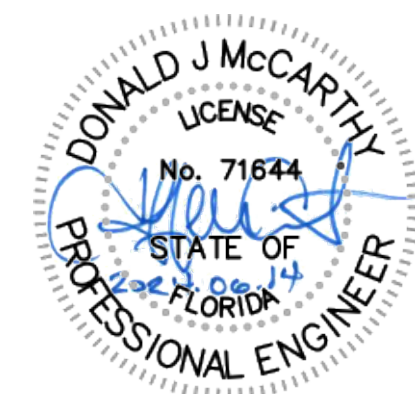
- ADDITIONAL CMU NOTES**
- ALL VERTICAL REINFORCING SHALL EXTEND INTO THE UPPERMOST BOND BEAM AND WHERE TERMINATES PROVIDE A 90° HOOK WITH MINIMUM 8" LEG.
 - ADDITIONAL REINFORCEMENT IN CONJUNCTION WITH TYPICAL VERTICAL WALL REINFORCEMENT SHALL BE PROVIDED AS FOLLOWS: PROVIDE (2) FILLED CELLS OF TYPICAL WALL REINFORCEMENT EACH SIDE OF OPENING (U.N.O.), PROVIDE (1) FILLED CELL OF WALL REINFORCEMENT ON EITHER SIDE OF MASONRY CONTROL JOINTS. PROVIDE (5) FILLED CELLS OF TYPICAL WALL REINFORCEMENT AT END OF WALLS.
 - PROVIDE 8" DEEP BOND BEAMS ALL WALL AT @4'-8" O.C., VERTICALLY (MAX) W/ (2) #5 CONT., TYP.
 - PLACE CONCRETE MASONRY UNITS IN RUNNING BOND PATTERN.
 - SEE FOUNDATION PLAN FOR WALL REINFORCING SIZE AND ARRANGEMENT. HORIZONTAL JOINT REINFORCING FOR CMU WALL SHALL BE NORMAL DUTY 9GA. SIDE RODS WITH 9GA. CROSS MEMBERS. WALL REINFORCEMENT SHALL BE CONSTRUCTED IN LADDER TYPE REINFORCEMENT AND SPACED AT 16" O.C.
 - SPLICE ALL REINFORCEMENT WITH MIN. 48 BAR DIAMETER SPLICES.



3 TYPICAL MCJ DETAIL
3/4" = 1'-0"

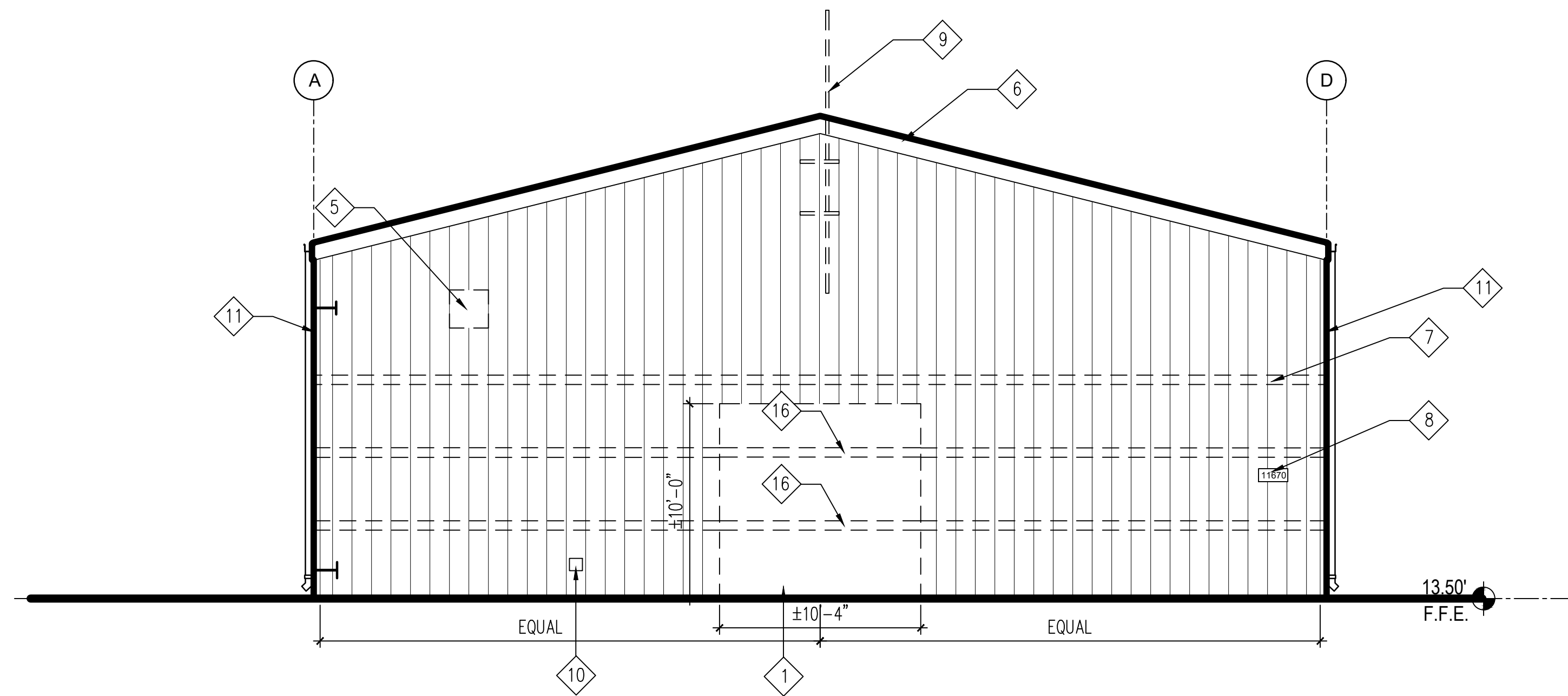


5 TYPICAL CMU BEARING WALL VERTICAL REINF. DETAIL
3/4" = 1'-0"

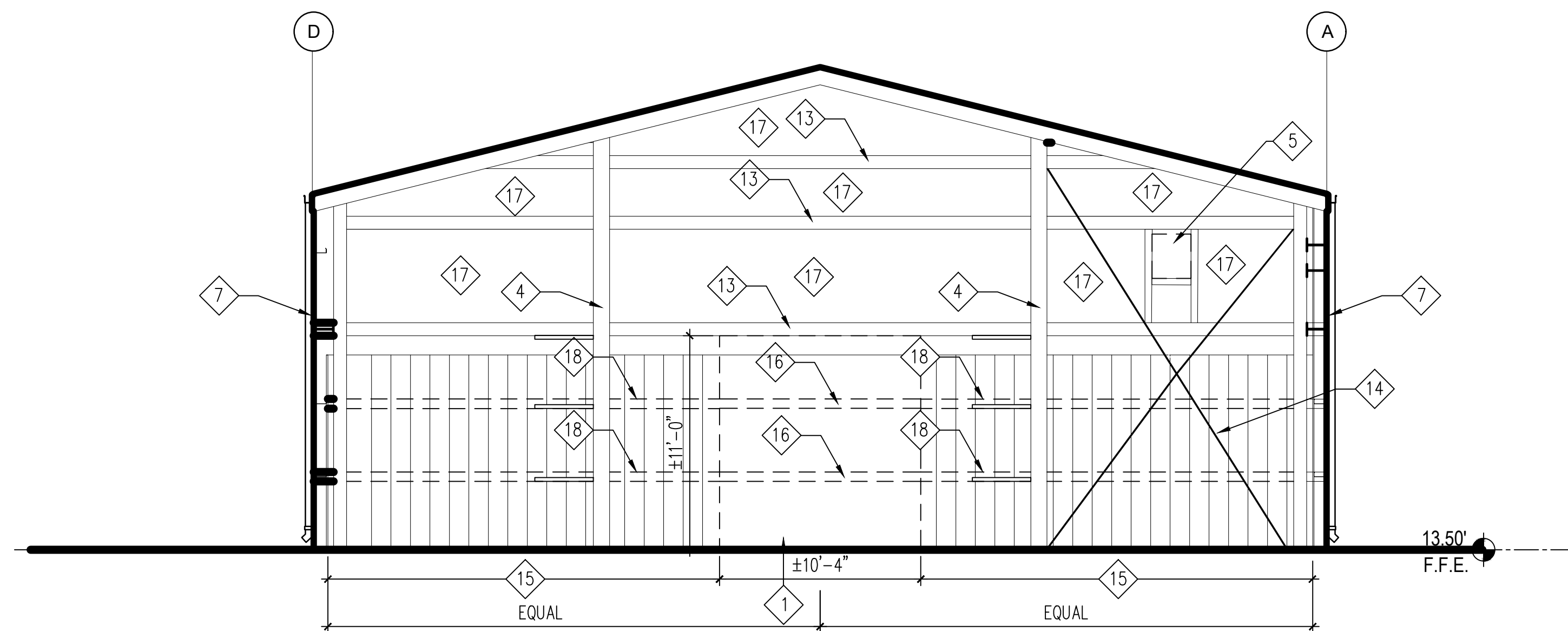


REVISION	DATE	DESCRIPTION	BY	APPRD
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	WEH			
PROJ. ENGR.	DJM			
CONTENTS		STRUCTURAL SECTION(S) & DETAIL(S)		
APPROVED	DATE	14 JUNE 2024		
96 CEG/CEN				
APPROVED				
BASE CIVIL ENGINEER	SCALE AS SHOWN			
SPEC. NO. 24AC	PROJ. NO. FTFA 23VH48	DRAWING NO. 24AC	FILE NO. XXXX	SHEET 11 OF 50

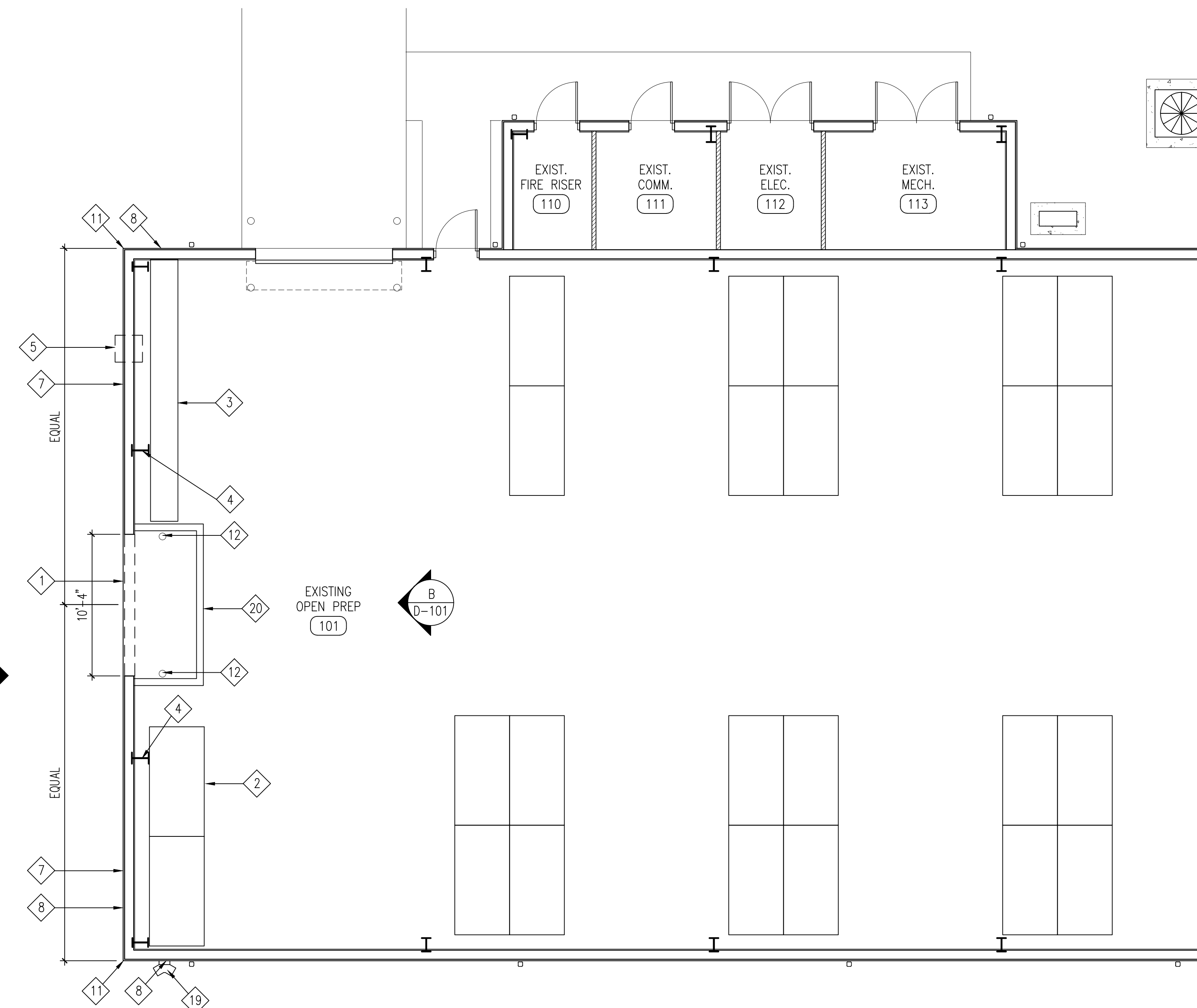
INDEX NO.
S-200



A WEST ELEVATION - DEMOLITION
D-101 SCALE: 3/16" = 1'-0" EXTERIOR



B WEST ELEVATION - DEMOLITION
D-101 SCALE: 3/16" = 1'-0" INTERIOR



PROJECT NORTH
PARTIAL FLOOR PLAN - DEMOLITION
SCALE: 3/16" = 1'-0"

NOTES:

- REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, ELECTRICAL AND COMMUNICATIONS DOCUMENTS FOR ADDITIONAL RELATED WORK.
- CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS AND CONDITIONS, AND NOTIFY THE CONTRACTING OFFICER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO BEGINNING ANY WORK.

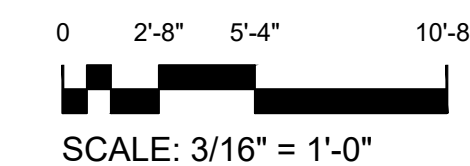
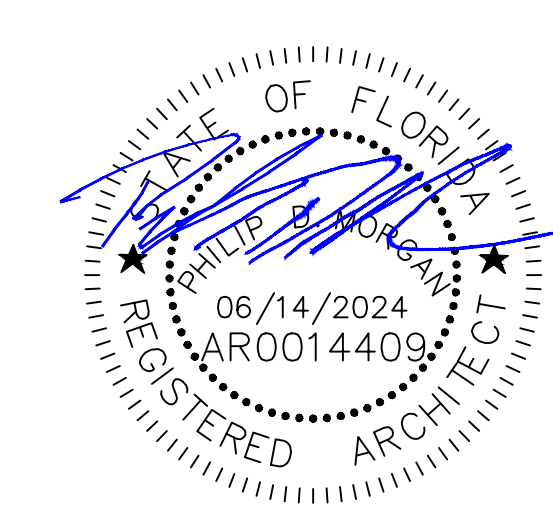
LEGEND:

- DENOTES EXISTING CONSTRUCTION TO BE REMOVED IN ITS ENTIRETY UNLESS NOTED OTHERWISE.
- DENOTES EXISTING CONSTRUCTION TO REMAIN UNLESS NOTED OTHERWISE. PROTECT FROM DAMAGE DURING EXTENT OF WORK.

KEYNOTES:

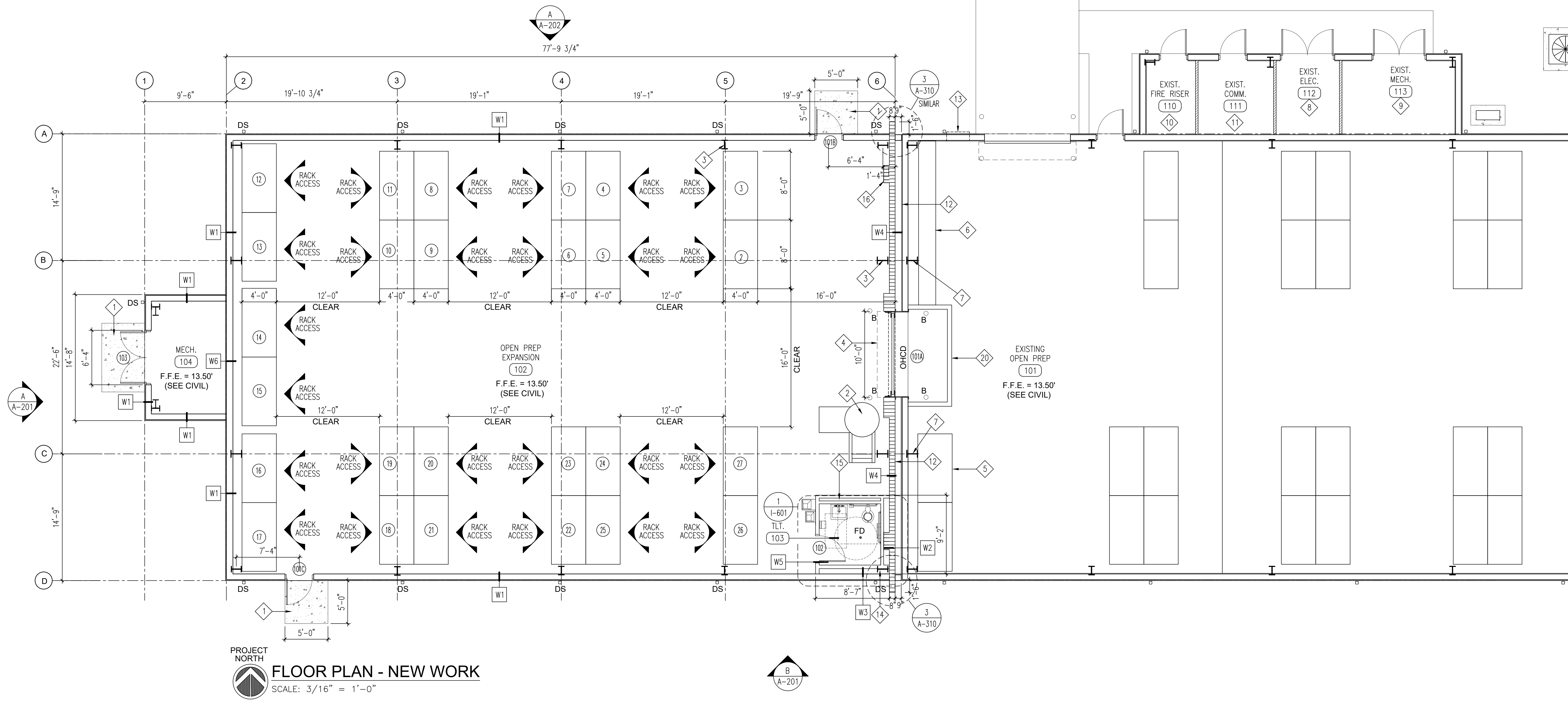
- REMOVE THIS SECTION OF EXISTING EXTERIOR METAL WALL PANELS, INTERIOR VINYL FACED BATT INSULATION, AND METAL LINER PANELS IN THEIR ENTIRETY TO ACCOMMODATE NEW 10'-0" X 10'-0" OVERHEAD COILING DOOR SYSTEM. PROTECT EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE DURING EXTENT OF WORK. SEE ELECTRICAL DOCUMENTS FOR RELATED WORK. COORDINATE OPENING SIZE WITH EXISTING STRUCTURE AND OVERHEAD DOOR MANUFACTURER REQUIREMENTS.
- EXISTING METAL STORAGE RACKS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING WORK BENCH TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING STEEL COLUMN AND STRUTS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING WALL-MOUNTED EXHAUST FAN SHALL BE REMOVED AND RE-LOCATED TO ANOTHER LOCATION. COORDINATE WITH MECHANICAL DOCUMENTS. PROTECT EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE DURING EXTENT OF WORK.
- REMOVE/MODIFY EXISTING GABLE TRIM AS REQUIRED BY METAL BUILDING MANUFACTURER TO ACCOMMODATE EXISTING ROOF-TO-NEW ROOF TIE-IN/EXPANSION JOINT.
- EXISTING METAL WALL PANELS TO REMAIN, TYPICAL. PROTECT EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE DURING EXTENT OF WORK.
- REMOVE EXISTING BUILDING NUMBER AND RELOCATE AS DIRECTED BY THE CONTRACTING OFFICER. PROTECT FROM DAMAGE DURING EXTENT OF WORK. PATCH HOLES IN WALL PANEL PER WALL PANEL MANUFACTURER REQUIREMENTS.
- EXISTING WALL-MOUNTED ANTENNA. SEE ELECTRICAL DOCUMENTS FOR REMOVAL/RELOCATION. REMOVE MOUNTING BRACKETS IN THEIR ENTIRETY. PROTECT ANTENNA AND BRACKETS FROM DAMAGE DURING EXTENT OF WORK.
- REMOVE/CAP EXISTING WALL HYDRANT. SEE PLUMBING DOCUMENTS FOR NEW HYDRANT LOCATION AND CAPPING OF EXISTING. PROVIDE NEW METAL CLOSURE OVER DEMOLISHED HYDRANT TO MATCH WALL PANELS.
- REMOVE EXISTING METAL BUILDING CORNER TRIM AS REQUIRED TO INSTALL NEW WALL PANELS. PROTECT EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE DURING EXTENT OF WORK.
- CORE-DRILL EXISTING SLAB TO RECEIVE NEW PIPE BOLLARD TO MATCH EXISTING.
- EXISTING STEEL I-SECTION TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING STEEL CABLE BRACING TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING METAL LINER PANELS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.

- CUT EXISTING 'Z' GIRT AS REQUIRED TO ACCOMMODATE NEW OPENING. PROVIDE SHORING AS REQUIRED. COORDINATE WITH STRUCTURAL AND PEMB MANUFACTURER.
- EXISTING VINYL-FACED BATT INSULATION TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING STEEL I-SECTION, BEHIND LINER PANELS, TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING FIRE DEPARTMENT CONNECTION. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING WAREHOUSE SHALL REMAIN OPERATIONAL DURING EXTENT OF WORK. PROVIDE SECURE, WEATHERTIGHT, INSULATED BARRIER, WITH THREE SIDES AND TOP, TO PROTECT EXISTING WAREHOUSE FROM WEATHER AND INTRUSION AS DIRECTED BY THE CONTRACTING OFFICER.



INDEX NO.
D-101

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER				
EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE		
DATE		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
SIGNATURE				
APPROVED				
CENM				
DRAWN BY: JEF		CONTENTS		
PROJ. ENGR_PDM				
PARTIAL FLOOR PLAN - DEMOLITION				
APPROVED		DATE		
96 CEG/CEN		14 JUNE 2024		
APPROVED		SCALE		
BASE CIVIL ENGINEER		AS SHOWN		
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO. XX	SHEET 12 OF 50



PROJECT NORTH
FLOOR PLAN - NEW WORK
 SCALE: 3/16" = 1'-0"

NOTES:

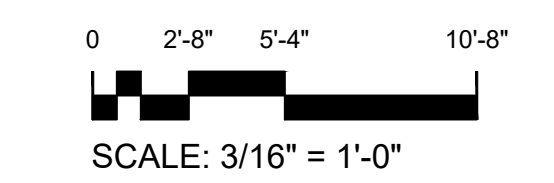
- ALL DIMENSIONS FOR INTERIOR STUD PARTITIONS ARE FROM FACE OF STUD
- REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, MECHANICAL, ELECTRICAL AND COMMUNICATIONS DOCUMENTS FOR ADDITIONAL RELATED WORK.
- CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS AND CONDITIONS, AND NOTIFY THE CONTRACTING OFFICER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO BEGINNING ANY WORK.

LEGEND:

- METAL STUD PARTITIONS
- DOOR IDENTIFICATION
- XXXX ROOM IDENTIFICATION
- XXX ROOM IDENTIFICATION
- (25) STORAGE RACKS, 4'D x 8'W x 10'H (TYP). MATCH EXISTING HUSKY UNIT.
- B BOLLARD - MATCH EXISTING. SEE DETAIL 3/A-312.
- DS DOWNSPOUT - MATCH EXISTING. TIE INTO UNDERGROUND STORM DRAINAGE SYSTEM. SEE CIVIL DOCUMENTS.
- FD FLOOR DRAIN, SEE PLUMBING DOCUMENTS
- OHCD 3-HOUR FIRE-RATED MOTORIZED OVERHEAD COILING DOOR. SEE SPECS.
- XX WALL TYPE, SEE SHEETS A-310, A-311, A-312.

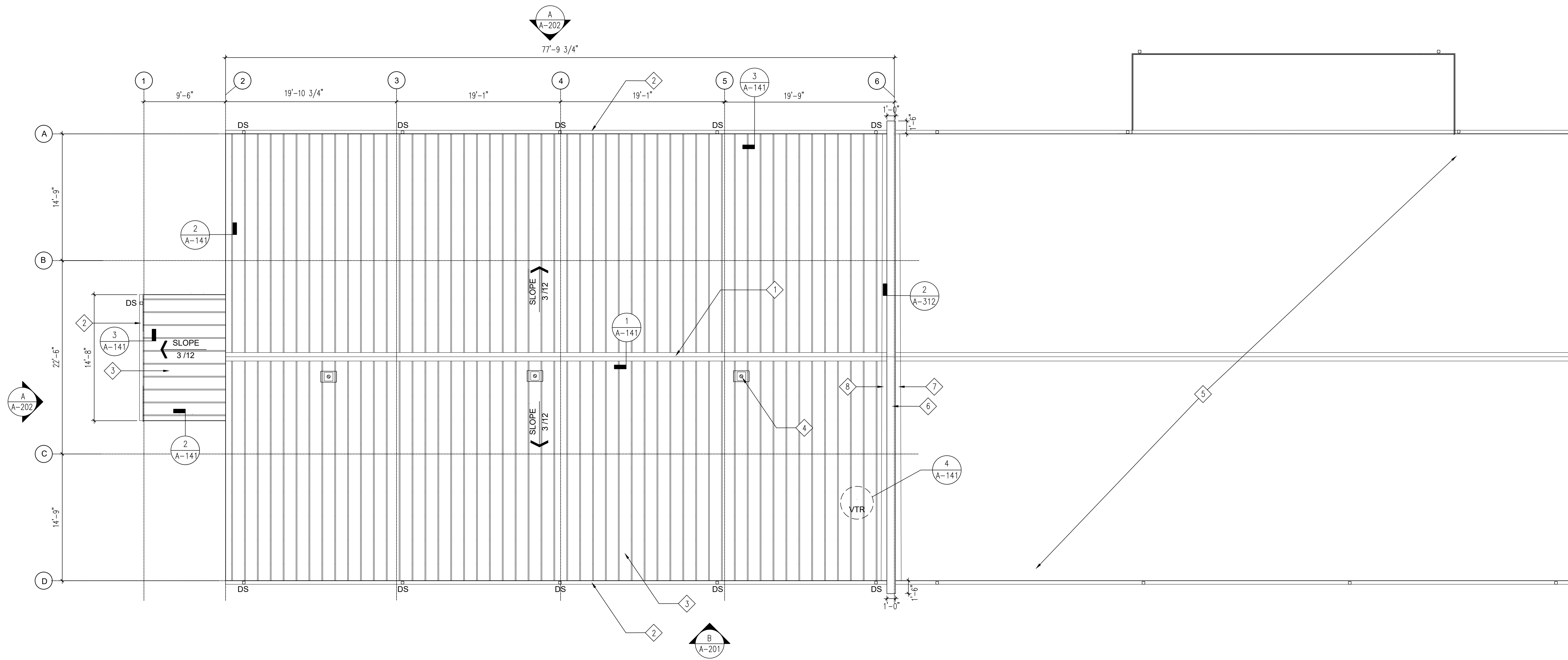
KEYNOTES:

- NEW CONCRETE STOOP WITH BROOM FINISH AND TURNED-DOWN PERIMETER. BACK EDGE SHALL BE FLUSH WITH FINISH FLOOR. STOOP SHALL HAVE POSITIVE SLOPE (2% MAX.) TO DRAIN AWAY FROM THE BUILDING.
- EXISTING SHRINK-WRAP MACHINE. LOCATION TO BE DETERMINED BY GOVERNMENT.
- PRE-ENGINEERED STEEL BUILDING FRAME, TYPICAL. SEE STRUCTURAL DOCUMENTS AND PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS FOR SIZE AND LOCATIONS.
- LINE OF NEW 3-HOUR FIRE-RATED MOTORIZED OVERHEAD COILING DOOR HOOD, ABOVE.
- EXISTING METAL STORAGE RACKS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING WORK BENCH TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- EXISTING STEEL COLUMN AND STRUTS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- SEE ELECTRICAL DOCUMENTS FOR RELATED WORK, THIS AREA.
- SEE MECHANICAL DOCUMENTS FOR RELATED WORK, THIS AREA.
- SEE FIRE PROTECTION DOCUMENTS FOR RELATED WORK, THIS AREA.
- SEE COMM DOCUMENTS FOR RELATED WORK, THIS AREA.
- NEW 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION. SEE STRUCTURAL DOCUMENTS. PAINT ALL EXPOSED SURFACES, TYPICAL.
- INSTALL EXISTING THROUGH-WALL LOUVER IN NEW LOCATION. COORDINATE WITH MECHANICAL DOCUMENTS. VOID TO ACCOMMODATE RIGID FRAME. COORDINATE WITH STRUCTURAL DOCUMENTS.
- PLUMBING CHASE. COORDINATE WITH PLUMBING DOCUMENTS.
- NEW REINFORCED CMU PILASTER. SEE STRUCTURAL DOCUMENTS. PAINT ALL EXPOSED SURFACES, TYPICAL.
- EXISTING WAREHOUSE SHALL REMAIN OPERATIONAL DURING EXTENT OF WORK. PROVIDE SECURE, WEATHERTIGHT, INSULATED BARRIER, WITH THREE SIDES AND TOP, TO PROTECT EXISTING WAREHOUSE FROM WEATHER AND INTRUSION AS DIRECTED BY THE CONTRACTING OFFICER. MAINTAIN BARRIER, AND LEAVE IN PLACE UNTIL DIRECTED OTHERWISE BY THE CONTRACTING OFFICER.



INDEX NO.
A-101

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT DATE _____ SIGNATURE _____ APPROVED _____ CENM _____ DRAWN BY JEF PROJ. ENGR_PDM		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
		CONTENTS FLOOR PLAN - NEW WORK		
		APPROVED 96 CEG/CEN		DATE 14 JUNE 2024
		APPROVED BASE CIVIL ENGINEER		SCALE AS SHOWN
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO. XX	SHEET 13 OF 50

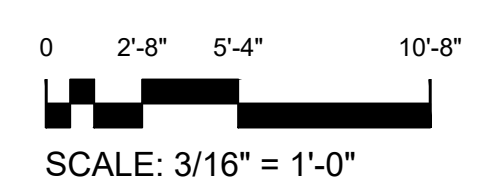
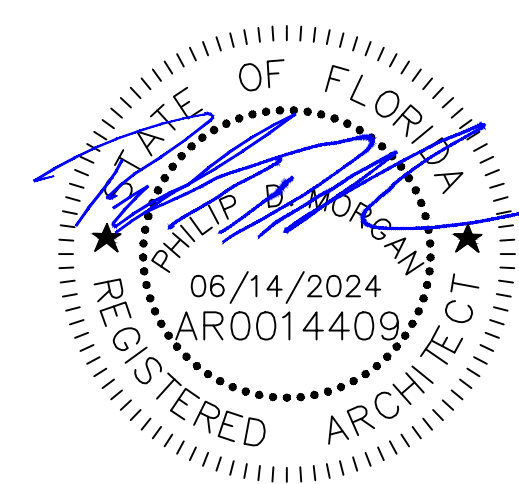


PROJECT NORTH
ROOF PLAN - NEW WORK
 SCALE: 3/16" = 1'-0"

- NOTES:**
- CONTRACTOR SHALL FIELD-VERIFY ALL DIMENSIONS AND CONDITIONS, AND NOTIFY THE CONTRACTING OFFICER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO BEGINNING ANY WORK.
 - REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL AND COMMUNICATIONS DOCUMENTS FOR ADDITIONAL RELATED WORK.
 - SLOPE ALL GUTTERS TO DOWNSPOUTS.
 - SEE EXTERIOR ELEVATIONS FOR DOWNSPOUT LOCATIONS.
 - ROOF PANEL COLOR SHALL BE BASED ON NUCOR WARM WHITE, TO MATCH EXISTING. TYPICAL.

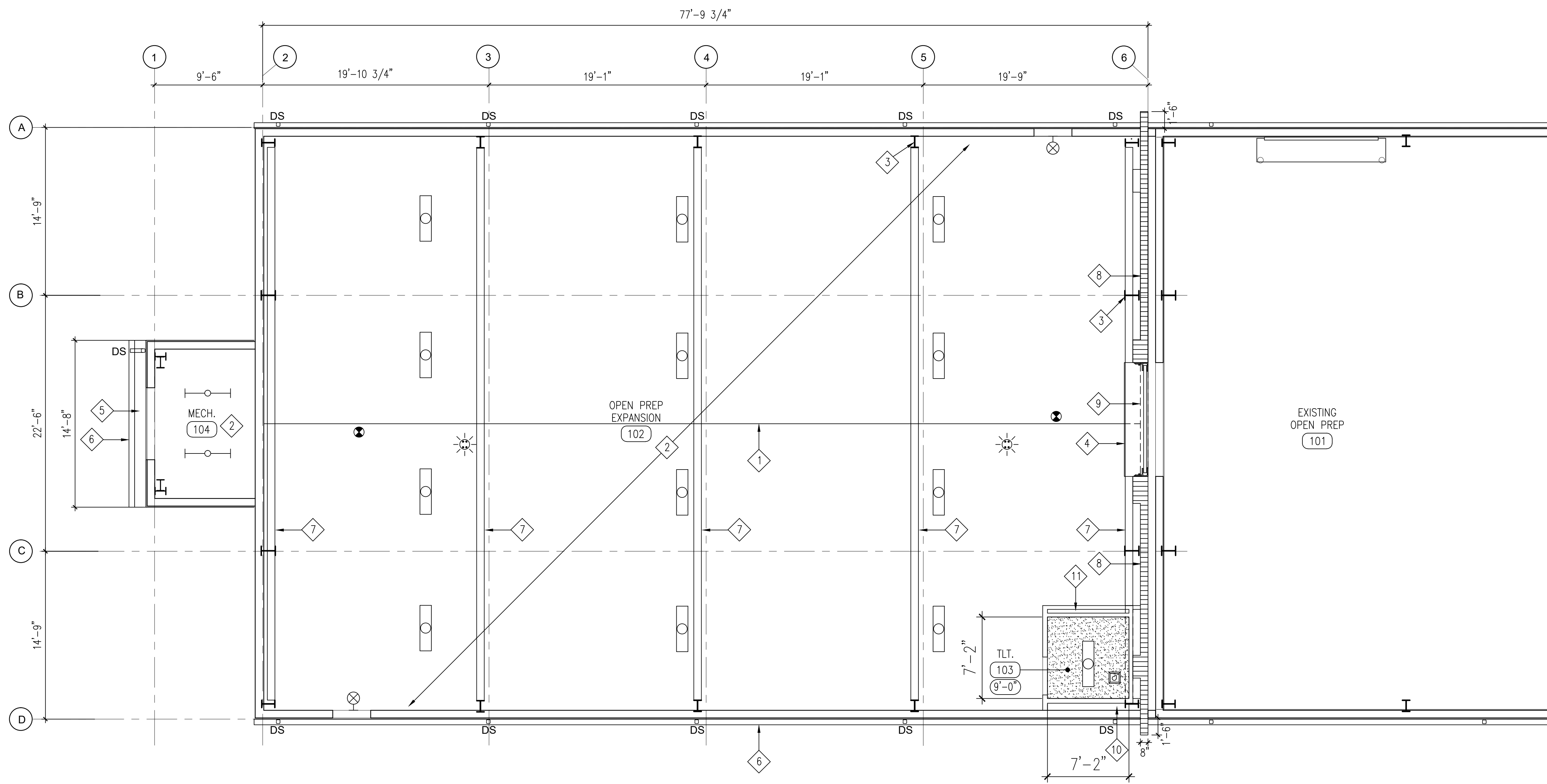
- LEGEND:**
- DS** DENOTES 4" X 5" DOWNSPOUT LOCATION. TIE DOWNSPOUTS INTO UNDERGROUND STORM SEWER SYSTEM. SEE CIVIL DOCUMENTS. GUTTER AND DOWNSPOUT SYSTEM SHALL BE PROVIDED BY METAL BUILDING MANUFACTURER. SIZE, PROFILE AND COLORS SHALL MATCH EXISTING. BASIS OF DESIGN IS NUCOR.
 - VTR** VENT THROUGH ROOF, SEE PLUMBING DOCUMENTS
 - FALL PROTECTION ROOF ANCHOR LOCATION. COORDINATE WITH FALL PROTECTION SYSTEM INSTALLER.

- KEYNOTES:**
- PRE-FINISHED METAL RIDGE CAP, OVERBEND TO ALLOW FOR SPRING, COLOR TO MATCH EXISTING.
 - PRE-FINISHED 6"W X 5"D 24GA METAL GUTTER SYSTEM, CONTINUOUS, TYPICAL. COLOR SHALL MATCH EXISTING.
 - PRE-FINISHED STANDING SEAM PEMB METAL ROOF SYSTEM. TYPE, GAUGE, PROFILE AND COLOR SHALL MATCH EXISTING. BASIS OF DESIGN IS NUCOR.
 - ROOF ANCHOR SYSTEM. SEE SHEET A-142 AND STRUCTURAL DOCUMENTS.
 - EXISTING STANDING SEAM METAL BUILDING ROOF SYSTEM TO REMAIN, TYPICAL. RE-WORK PORTION ADJOINING NEW ADDITION AS REQUIRED TO INSTALL EXPANSION JOINT SYSTEM PER METAL BUILDING MANUFACTURER'S REQUIREMENTS.
 - NEW 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION, EXTENDING 30" (MINIMUM) ABOVE PLANE OF ROOF, CONTINUOUS. PROVIDE PRE-FINISHED 24GA STEEL COPING OVER 40ML RUBBERIZED SELF-ADHERING WATERPROOFING MEMBRANE, OVER PRESSURE-TREATED DOUBLE 2X10'S, RIPPED, WITH 22GA GALV. STEEL CLEATS, BOTH SIDES, CONTINUOUS. PAINT ALL EXPOSED SURFACES OF CMU.TYPICAL.
 - NEW STANDING SEAM METAL ROOF PANELS TO MATCH EXISTING (BASIS OF DESIGN IS NUCOR), AND PRE-FINISHED ROOF-TO-WALL FLASHING SYSTEM, CONTINUOUS, BY METAL ROOFING INSTALLER.
 - NEW PRE-FINISHED ROOF-TO-WALL FLASHING SYSTEM, CONTINUOUS, BY METAL ROOFING INSTALLER.



INDEX NO.
A-102

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	14 JUNE 2024			
SIGNATURE	96 CEG/CEN			
APPROVED	APPROVED			
CENM	SCALE AS SHOWN			
DRAWN BY: JEF	BASE CIVIL ENGINEER			
PROJ. ENGR_PDM	SPEC. NO. 24AC			
PROJ. NO. FTFA23VH48		DRAWING NO. 24AC		FILE NO. XX
SHEET 14 OF 50				



PROJECT NORTH
REFLECTED CEILING PLAN
 SCALE: 3/16" = 1'-0"

- NOTES:**
- IT IS THE INTENT OF THIS PROJECT TO HAVE THE CEILING HEIGHTS THROUGHOUT THE BUILDING AS HIGH AS POSSIBLE. CEILING HEIGHTS SHALL BE ADJUSTED UPWARD WHENEVER POSSIBLE AFTER ALL STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION AND TELECOMMUNICATIONS ITEMS HAVE BEEN INSTALLED. ENSURE THAT EACH TRADE IS INSTALLING THEIR PRODUCT(S) AS HIGH AS POSSIBLE. COORDINATE INSTALLATION OF ALL STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE SUPPRESSION SYSTEMS SO THAT THERE ARE NO CONFLICTS WITH REQUIRED CLEARANCES ABOVE STORAGE RACKS.
 - REFER TO FIRE PROTECTION, MECHANICAL, ELECTRICAL AND COMMUNICATIONS DOCUMENTS FOR ADDITIONAL RELATED WORK.

- LEGEND:**
- (X-X) CEILING HEIGHT.
 - [Stippled Box] GYPSUM WALLBOARD CEILING, PAINTED. SEE FINISH SCHEDULE, SHEET I-601
 - [Circle with Line] LIGHT FIXTURES, SEE ELECTRICAL DOCUMENTS.
 - [Circle with Cross] WALL-MOUNTED EXIT LIGHT, SEE ELECTRICAL DOCUMENTS.
 - [Circle with Dot] PENDANT-MOUNTED EXIT LIGHT, SEE ELECTRICAL DOCUMENTS.
 - [Sun Symbol] OCCUPANCY SENSOR, SEE ELECTRICAL DOCUMENTS.
 - [Square with X] EXHAUST FAN, SEE MECHANICAL DOCUMENTS.
 - DS DOWNSPOUT - MATCH EXISTING. TIE INTO UNDERGROUND STORM DRAINAGE SYSTEM. SEE CIVIL DOCUMENTS.

- KEYNOTES:**
- RIDGE LINE.
 - EXPOSED VINYL-FACED BATT INSULATION SYSTEM BY METAL BUILDING MANUFACTURER, WITH PRE-FINISHED GALVANIZED SUPPORT BAND GRID SYSTEM FASTENED TO UNDERSIDE OF PEMB URLIN TO SUPPORT ROOF INSULATION. TYPICAL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
 - PRE-ENGINEERED STEEL BUILDING FRAME, TYPICAL. SEE STRUCTURAL DOCUMENTS AND PRE-ENGINEERED METAL BUILDING SHOP DRAWINGS FOR SIZE AND LOCATIONS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
 - PRE-FINISHED HOOD FOR OVERHEAD COILING DOOR. SEE SPECIFICATIONS. BASIS OF DESIGN IS COOKSON, TO MATCH EXISTING.
 - PRE-FINISHED SOFFIT PANELS BY METAL BUILDING MANUFACTURER. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
 - PRE-FINISHED GUTTER SYSTEM BY METAL BUILDING MANUFACTURER. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
 - PRE-FINISHED STEEL FRAME BY METAL BUILDING MANUFACTURER. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
 - NEW 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION. SEE STRUCTURAL DOCUMENTS. PAINT ALL EXPOSED SURFACES. TYPICAL.
 - NEW 3-HOUR FIRE-RATED CMU WALL LINTEL. SEE STRUCTURAL DOCUMENTS. PAINT ALL EXPOSED SURFACES. TYPICAL.
 - VOID TO ACCOMMODATE RIGID FRAME. COORDINATE WITH STRUCTURAL DOCUMENTS.
 - PLUMBING CHASE. COORDINATE WITH PLUMBING DOCUMENTS.

REVISION	DATE	DESCRIPTION	BY	APPR'D

BASE CIVIL ENGINEER
EGLIN AIR FORCE BASE, FLORIDA

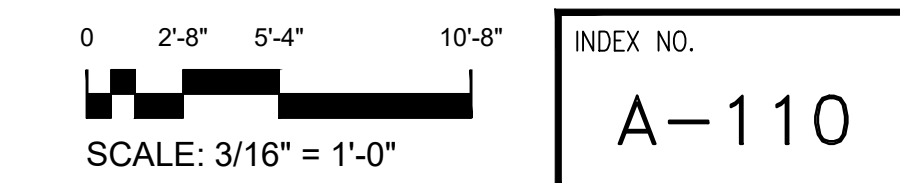
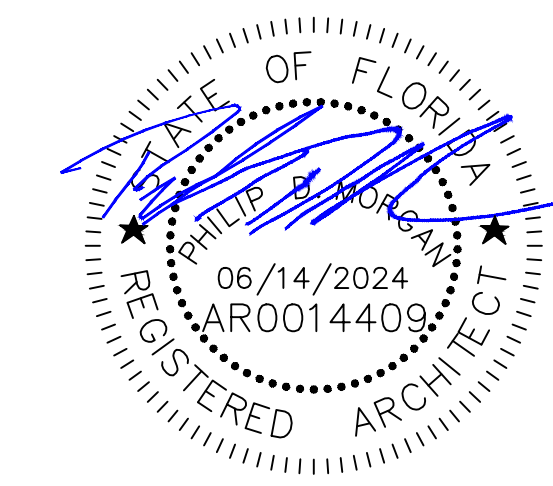
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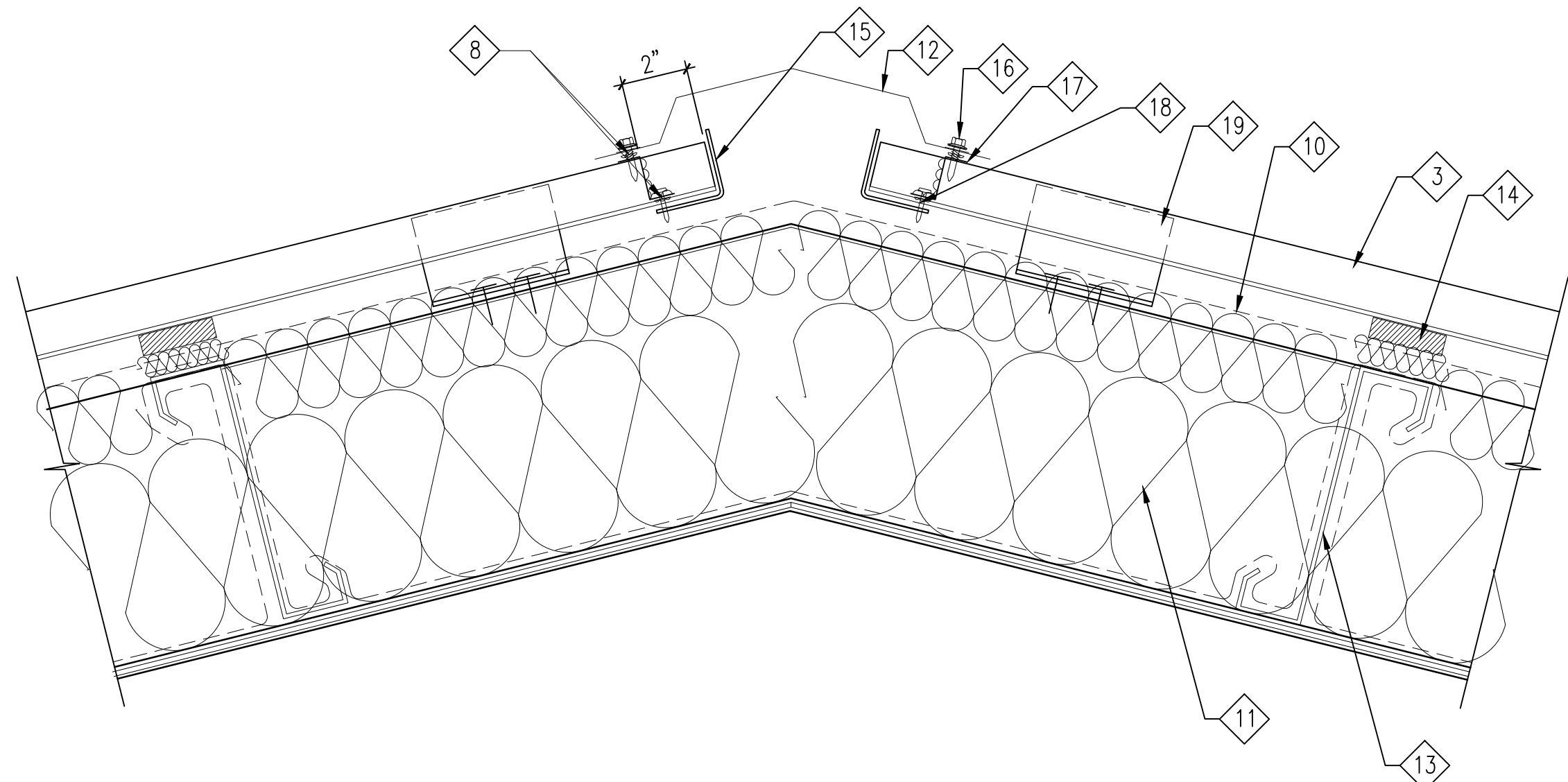
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 APPROVED: _____
 CENM: _____
 DRAWN BY: JEF
 PROJ. ENGR_PDM

CONTENTS: REFLECTED CEILING PLAN

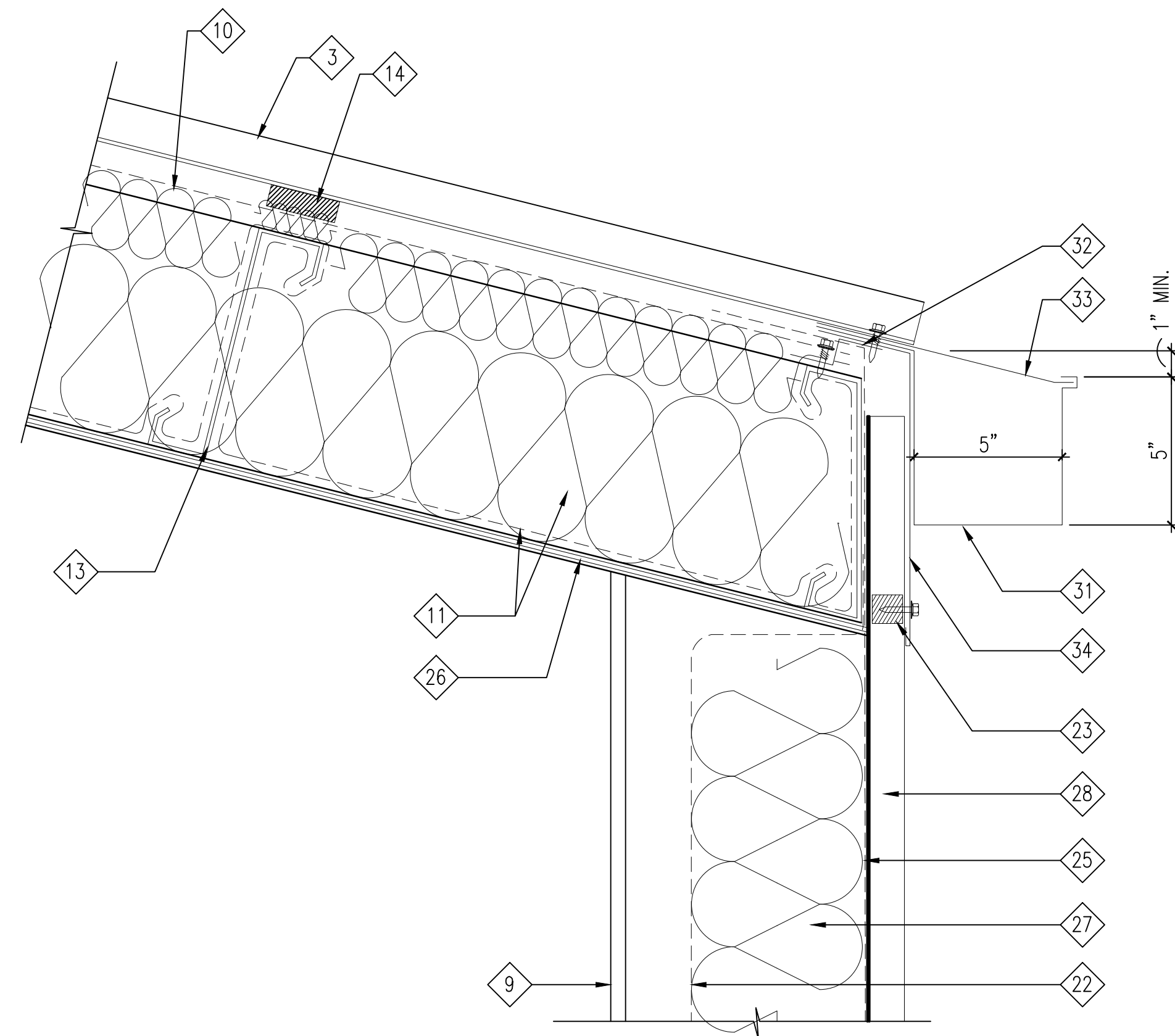
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 APPROVED: _____ SCALE: AS SHOWN
 BASE CIVIL ENGINEER

SPEC. NO. 24AC PROJ. NO. FTFA23VH48 DRAWING NO. 24AC FILE NO. XX SHEET 15 OF 50

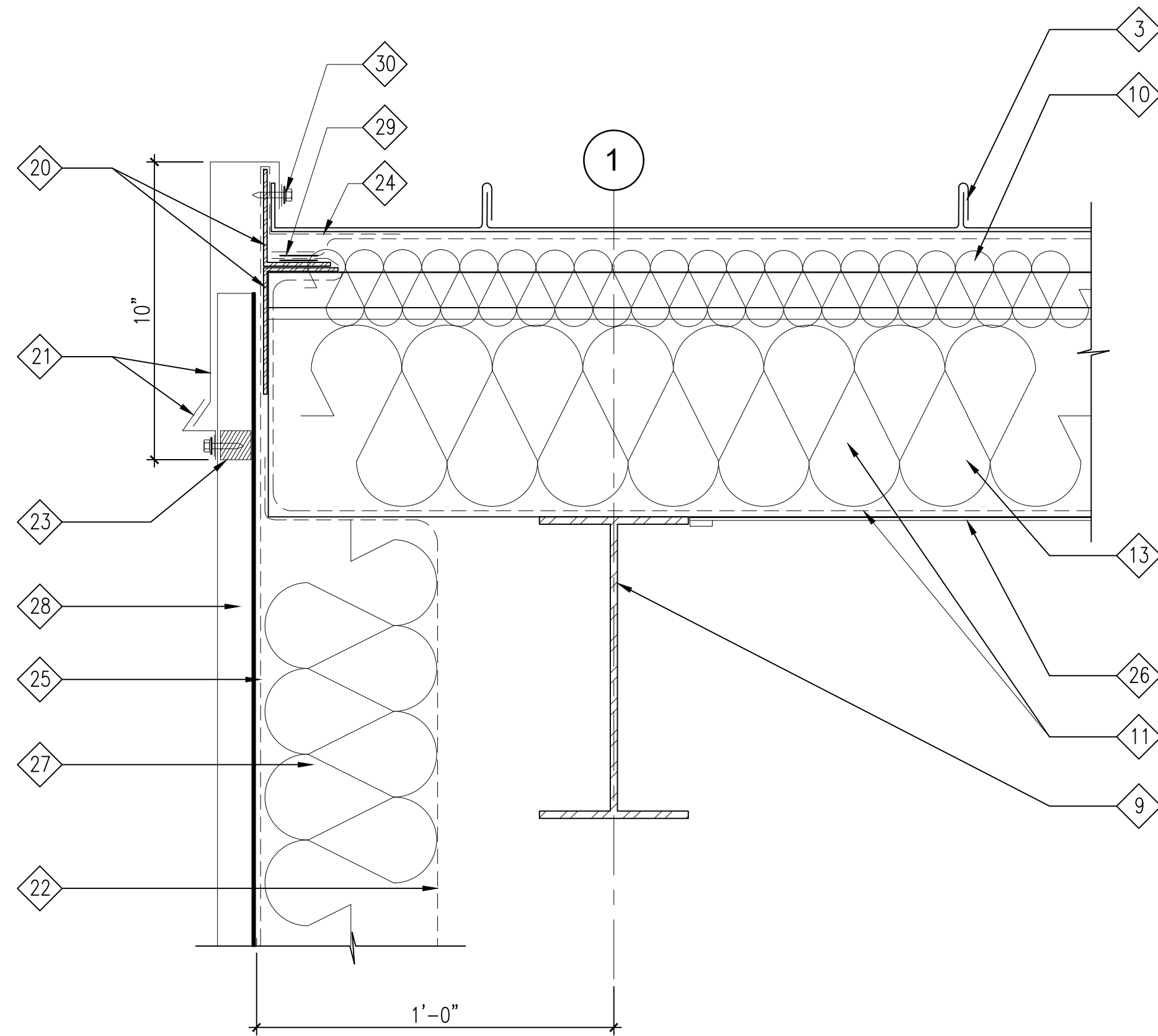




1 RIDGE DETAIL
A-141 3" = 1'-0"

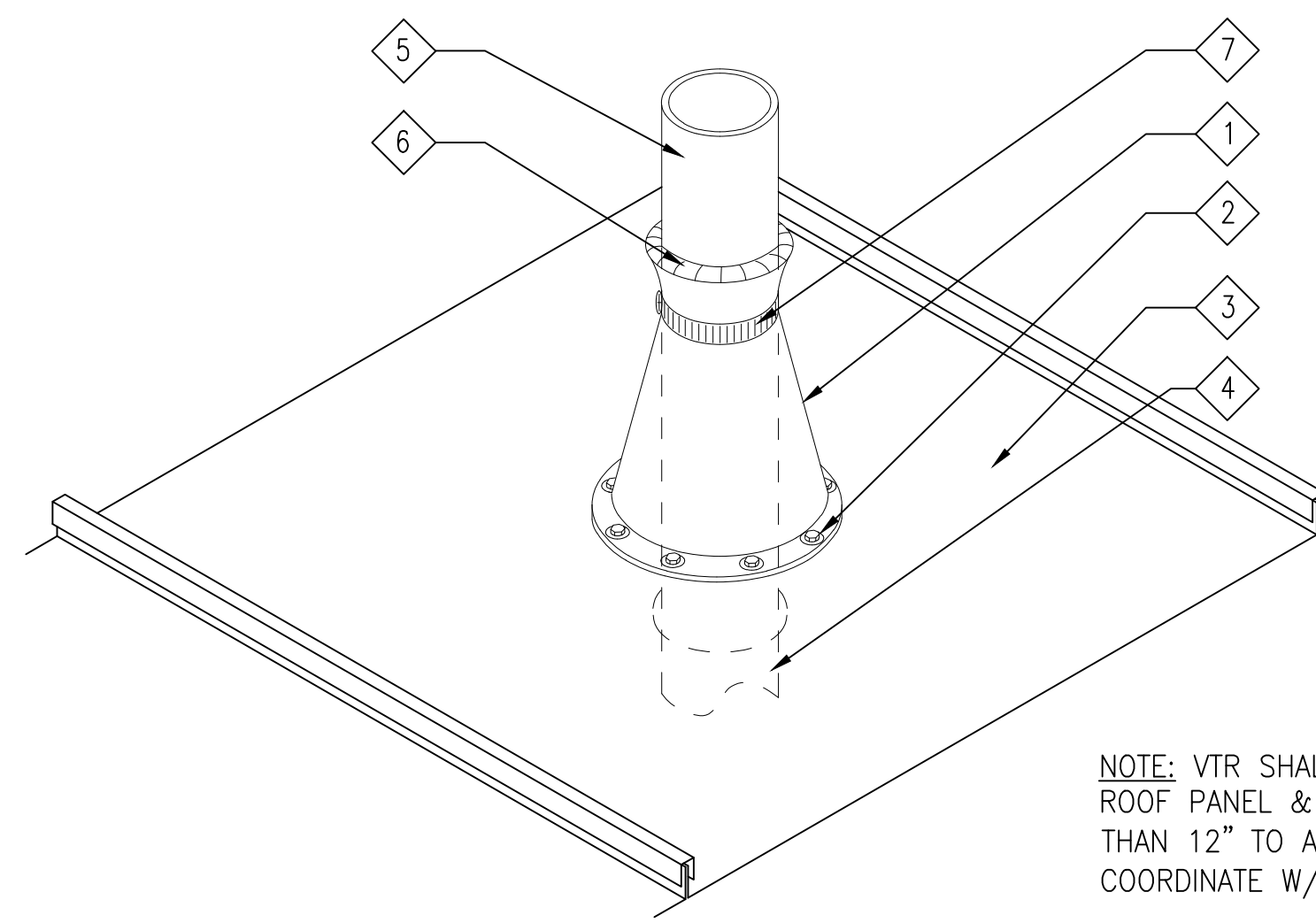


3 GUTTER DETAIL
A-141 3" = 1'-0"



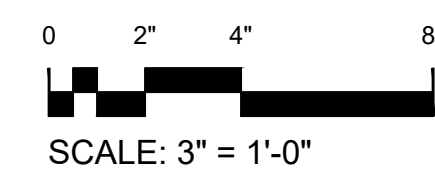
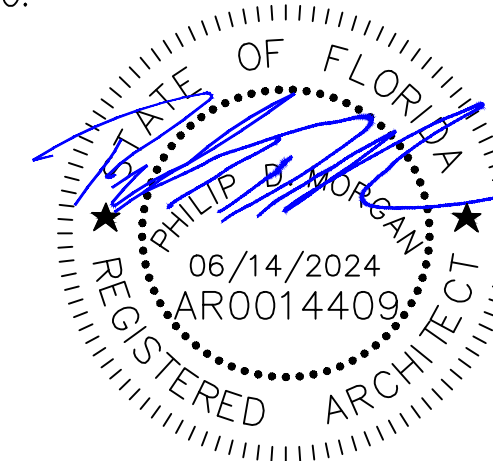
2 RAKE DETAIL
A-141 3" = 1'-0"

NOTE: PROVIDE THERMAL SPACER AT TOP OF PURLINS. THERMAL SPACER NOT SHOWN FOR CLARITY



4 VTR DETAIL
A-141 NTS

NOTE: VTR SHALL BE CENTERED IN ROOF PANEL & LOCATE NO CLOSER THAN 12" TO ANY ROOF FLASHING. COORDINATE W/ PLUMBING.



INDEX NO.
A-141

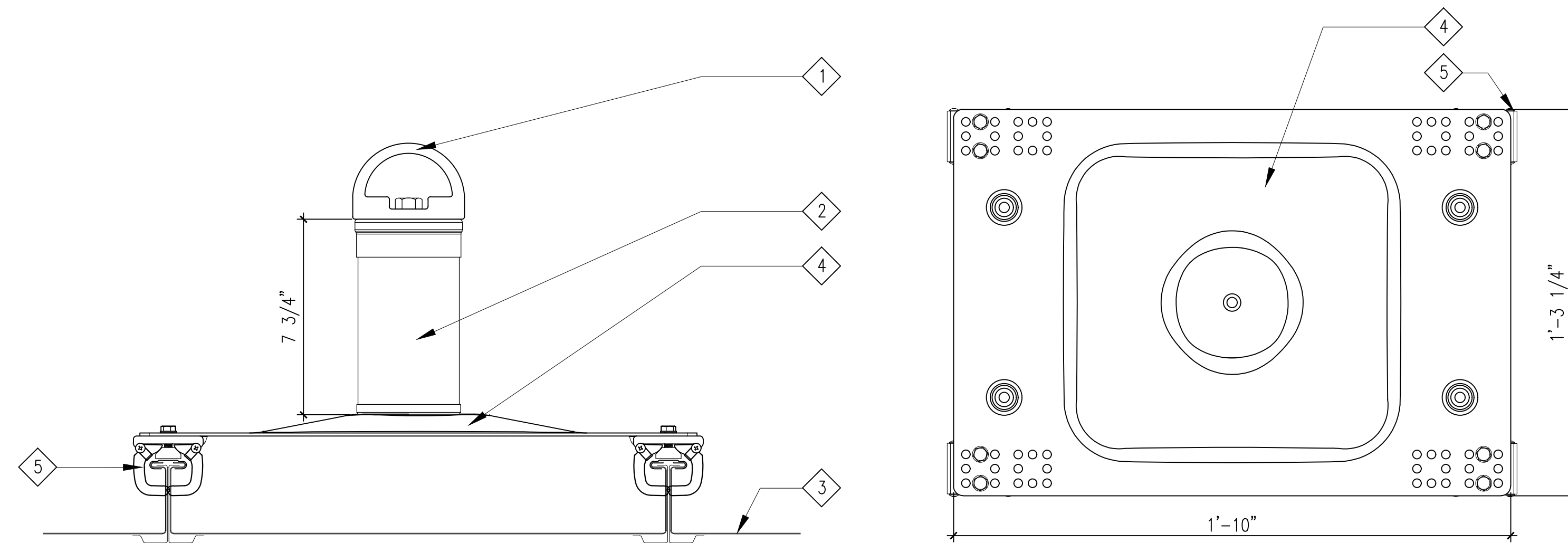
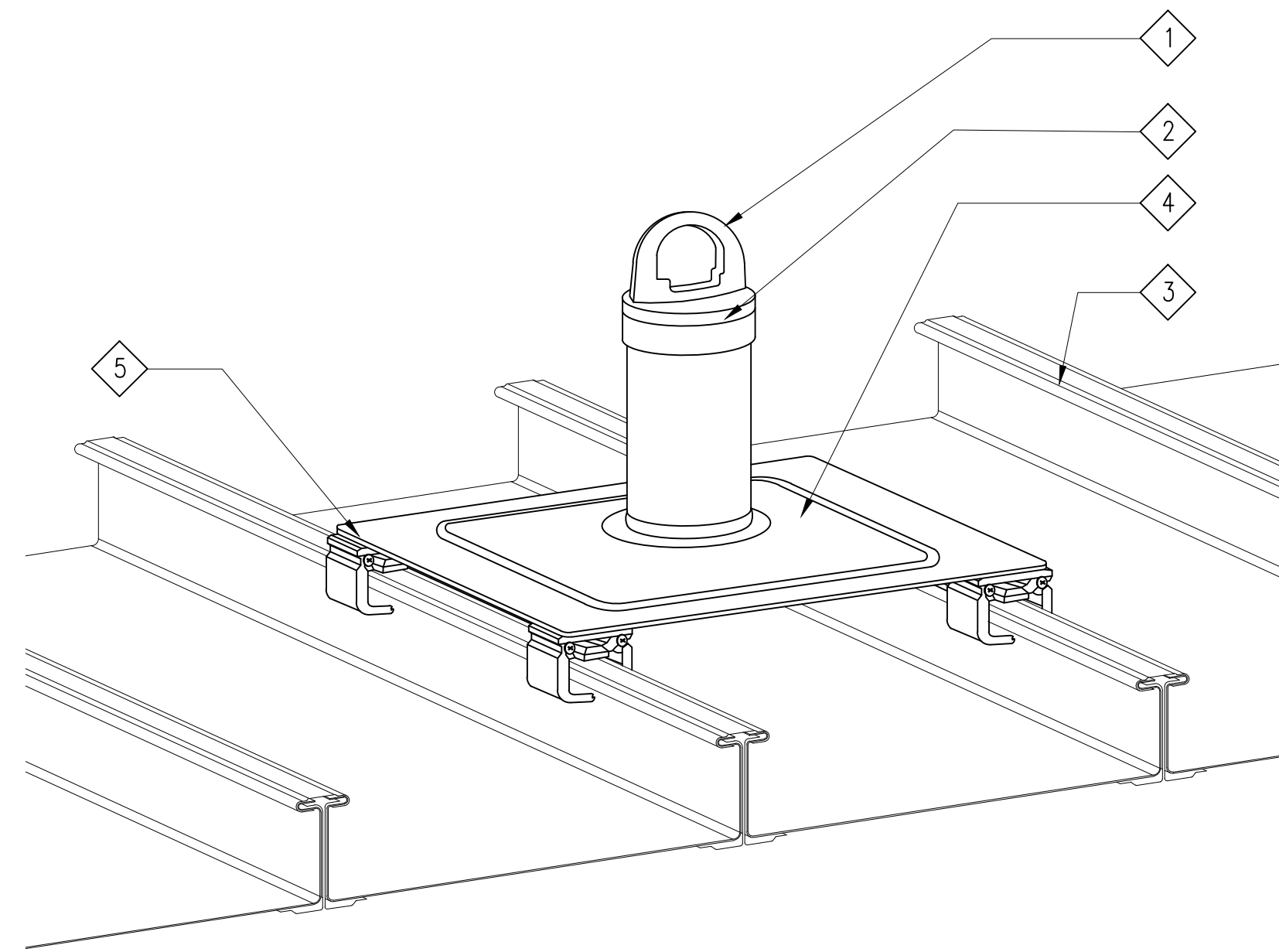
KEYNOTES:

- 1 EPDM PIPE FLASHING UNIT, SET IN CONTINUOUS SEALANT BED
- 2 #14 STAINLESS STEEL GASKETED SCREWS @ 3" O.C. MAX AT BASE
- 3 PREFINISHED STANDING SEAM PEMB METAL ROOF. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
- 4 SEAL VTR AROUND PENETRATION OF VAPOR RETARDER
- 5 VTR PIPE WITH PREFINISHED METAL COVER
- 6 SEAL WITH GUNNABLE SEALANT
- 7 STAINLESS STEEL CLAMP WITH SEALANT
- 8 TRI-BEAD TAPE SEALER
- 9 PEMB RIGID FRAME, SEE STRUCTURAL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
- 10 R-11 BATT INSULATION WITH VAPOR RETARDER (NON-PERFORATED) AT TOP SIDE
- 11 R-19 BATT INSULATION WITH VAPOR RETARDER (PERFORATED) AT BOTTOM SIDE
- 12 PREFINISHED METAL PEMB RIDGE FLASHING. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
- 13 PEMB PURLIN, SEE STRUCTURAL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
- 14 PEMB THERMAL SPACER
- 15 BACK-UP ANGLE
- 16 PEMB GASKETED FASTENER
- 17 ZEE CLOSURE, SEAL AGAINST ROOF PANEL RIB
- 18 RIVET PLATE TO ROOF PANEL
- 19 CONCEALED STAND-OFF ROOF PANEL CLIP TO ALLOW FOR THERMAL SPACER AND FASTENERS
- 20 PEMB METAL CLOSURE ANGLES
- 21 PREFINISHED METAL PEMB RAKE TRIM AND RAKE SLIDE. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
- 22 VAPOR RETARDER (PERFORATED)
- 23 PEMB WALL PANEL CLOSURE. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
- 24 CONTINUOUS TRANSITION TAPE PER VAPOR RETARDER MANUFACTURER TO TRANSITION TOP VAPOR RETARDER TO VAPOR RETARDER AT WALL
- 25 VAPOR RETARDER (NON-PERFORATED). EXTEND IT ABOVE THE PEMB PURLIN, AND OVERLAP THE VAPOR BARRIER ABOVE. TYPICAL.
- 26 PREFINISHED GALVANIZED SUPPORT BAND GRID SYSTEM FASTENED TO UNDERSIDE OF PEMB PURLINS TO SUPPORT ROOF INSULATION.
- 27 R-16 BATT INSULATION
- 28 1 1/4" PREFINISHED METAL PEMB WALL PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
- 29 DOUBLE FACED TAPE PER MANUFACTURER TO SEAL ENDS OF INSULATION FACER
- 30 PEMB PREFINISHED GASKETED FASTENER
- 31 PEMB PREFINISHED METAL GUTTER. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.
- 32 PEMB HIGH FIXED EAVE PLATE
- 33 1/16" X 1 1/2" WIDE PREFINISHED GUTTER STRAP AT 36" O.C.
- 34 PEMB PREFINISHED METAL EAVE FLASHING. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING.

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE _____		TITLE _____		
SIGNATURE _____		DRAWN BY: JEF		
APPROVED _____		PROJ. ENGR_PDM		
CENM _____		CONTENTS		
		ROOF DETAILS		
APPROVED _____		DATE		14 JUNE 2024
96 CEG/CEN		APPROVED		SCALE
APPROVED _____		BASE CIVIL ENGINEER		AS SHOWN
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 16 OF 50

KEYNOTES:

- 1 D-RING ANCHOR
- 2 ROOF ANCHOR POST
- 3 PRE-FINISHED 24GA STANDING SEAM METAL ROOFING SYSTEM, TYPICAL. SEE SPECIFICATIONS.
- 4 STANDING SEAM BASE PLATE, SIZE OF PLATE TO BE DETERMINED BY STANDING SEAM ROOF SPACING
- 5 STANDING SEAM SELF-CENTER CLAMP ASSEMBLY



1 FALL PROTECTION DETAIL
 A-142 NTS BASIS OF DESIGN - MILLER FUSION
 5000# LOAD CAPABLE MINIMUM

REVISION	DATE	DESCRIPTION	BY	APPR'D

**BASE CIVIL ENGINEER
 EGLIN AIR FORCE BASE, FLORIDA**

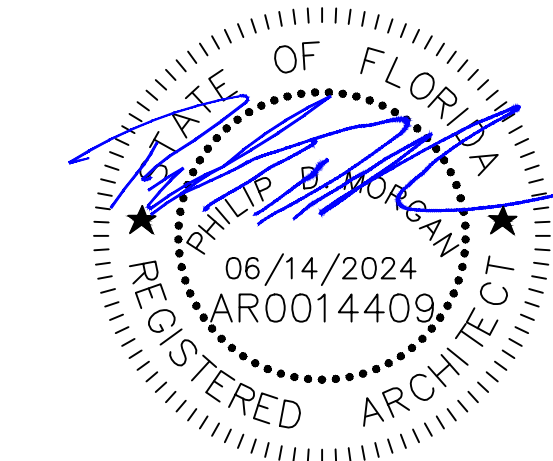
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DATE _____	
SIGNATURE _____	
APPROVED _____	
CENM _____	
DRAWN BY: JEF PROJ. ENGR_PDM	

CONTENTS FALL PROTECTION DETAILS	
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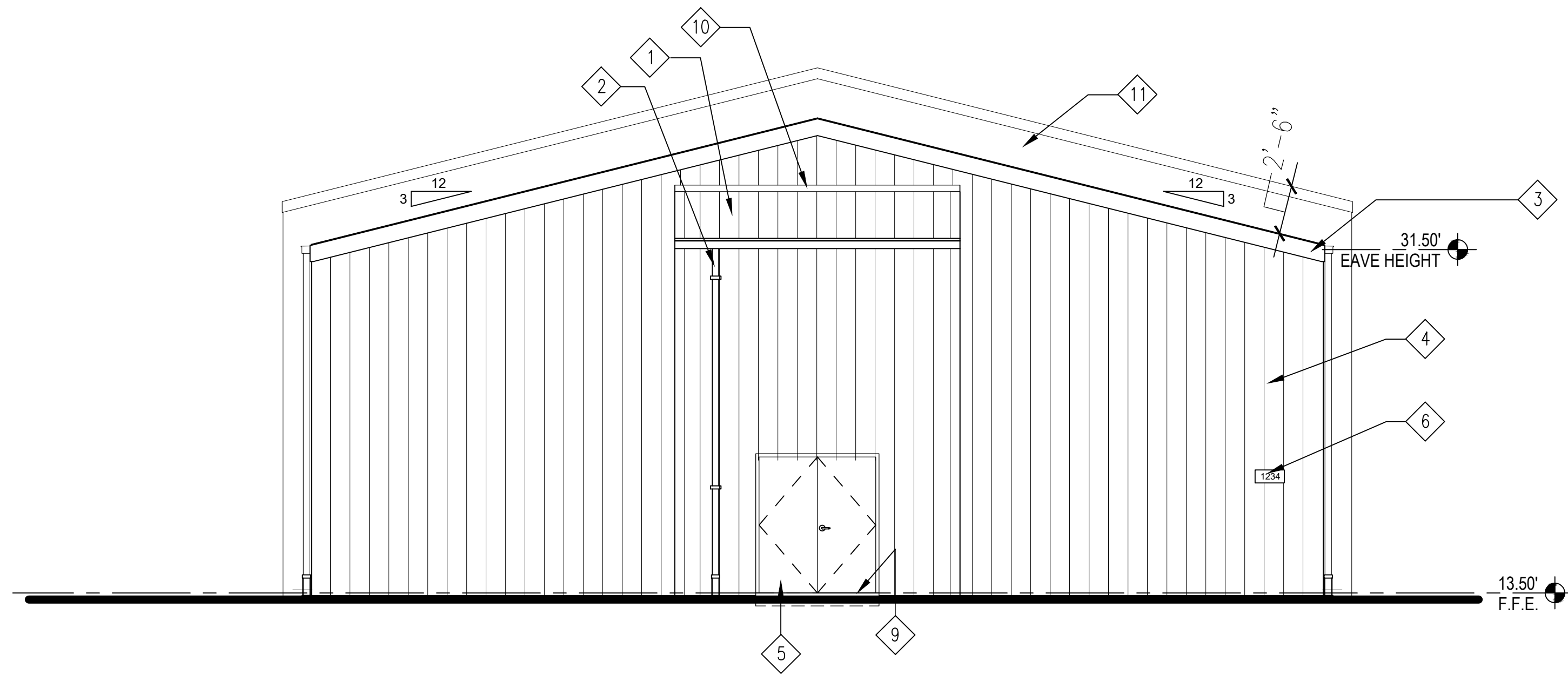
APPROVED 96 CEG/CEN	DATE 14 JUNE 2024
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APPROVED BASE CIVIL ENGINEER	SCALE AS SHOWN
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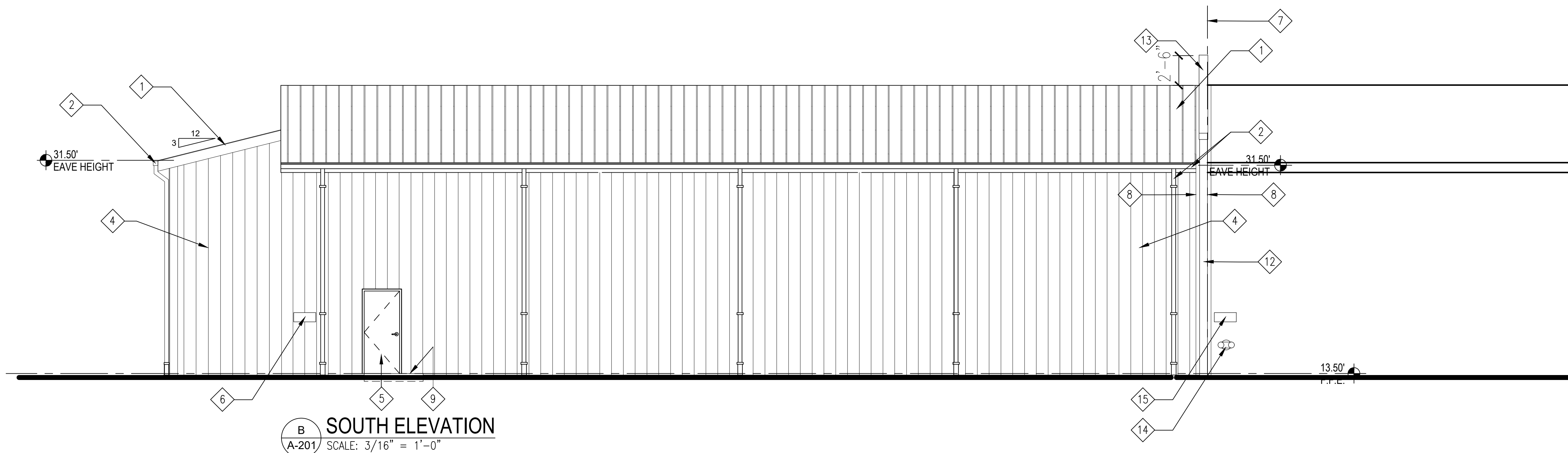
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO. SHEET 17 OF 50
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INDEX NO.
A-142



A WEST ELEVATION
A-201 SCALE: 3/16" = 1'-0"



B SOUTH ELEVATION
A-201 SCALE: 3/16" = 1'-0"

EXTERIOR FINISHES:

BUILDING DESIGN STANDARDS

WALL SYSTEMS

METAL SIDING. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.

ROOF SYSTEMS

STANDING SEAM METAL ROOF. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.

FASCIA. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.

GUTTER. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.

DOWNSPOUT. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.

DOWNSPOUT TRANSITION COLOR AT WALL (TO MATCH METAL SIDING).

DOORS

PAINTED EXTERIOR HOLLOW METAL DOORS AND FRAMES—MATCH EXISTING.

ANCILLARY STRUCTURES

LOUVERS (TO MATCH METAL SIDING). COLOR: MATCH EXISTING.

SITE DESIGN STANDARDS

EXTERIOR SIGNAGE

RE—INSTALL EXISTING BUILDING NUMBERS WHERE DIRECTED BY THE CONTRACTING OFFICER. BUILDING SIGN. REFERENCE UFC 3-120-01, DESIGN: SIGN STANDARDS.

EXTERIOR LIGHTING

HOUSING AND POSTS, WHERE APPLICABLE.

LANDSCAPING

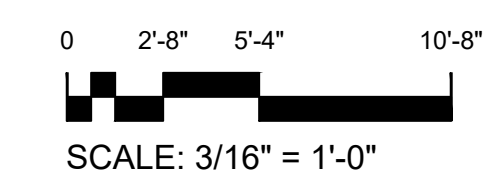
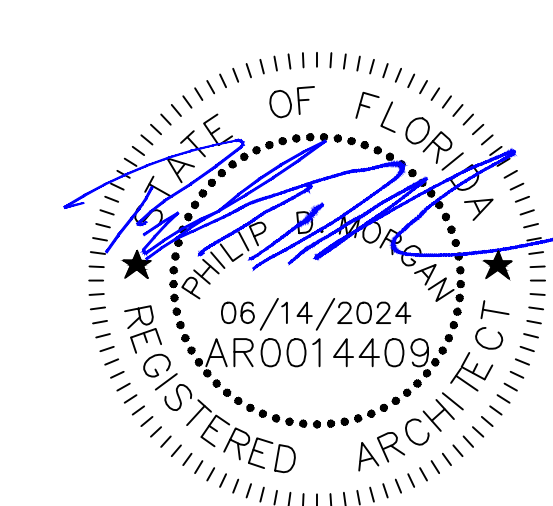
SOD SHALL BE ARGENTINE BAHIA. SEE CIVIL DOCUMENTS FOR REQUIREMENTS.

KEYNOTES:

- 1 PRE-FINISHED STANDING SEAM PEMB METAL ROOF SYSTEM. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING BUILDING. TYPICAL. SEE EXTERIOR FINISHES THIS SHEET, A-201.
- 2 6" x 5" PRE-FINISHED METAL GUTTER AND 4" x 5" DOWNSPOUT TO MATCH EXISTING BUILDING. TIE DOWNSPOUTS INTO UNDERGROUND STORM SEWER. SEE CIVIL DOCUMENTS. TYPICAL.
- 3 PREFINISHED METAL PEMB FASCIA. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING BUILDING. TYPICAL.
- 4 PRE-FINISHED PEMB METAL WALL PANELS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING BUILDING. TYPICAL. SEE EXTERIOR FINISHES THIS SHEET, A-201.
- 5 GALVANIZED INSULATED HOLLOW METAL DOOR(S) AND FRAME. DOOR(S) AND FRAME SHALL COMPLY WITH AT/FP REQUIREMENTS. SEE DOOR SCHEDULE SHEET A-601. DOORS SHALL MATCH EXISTING. TYPICAL.
- 6 RE-INSTALL EXISTING BUILDING NUMBER AS DIRECTED BY CONTRACTING OFFICER.
- 7 LINE OF EXISTING WAREHOUSE BUILDING TO REMAIN. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 8 EXPANSION JOINT SYSTEM AT WALLS AND ROOF BY METAL BUILDING MANUFACTURER. SEE DETAILS 3/A-310 AND 2/A-312.
- 9 NEW REINFORCED CONCRETE STOOP WITH BROOM FINISH AND TURNED-DOWN PERIMETER. BACK EDGE SHALL BE FLUSH WITH FINISH FLOOR. STOOP SHALL HAVE POSITIVE SLOPE TO DRAIN AWAY FROM THE BUILDING.
- 10 NEW PRE-FINISHED ROOF-TO-WALL FLASHING BY METAL BUILDING MANUFACTURER. COLOR SHALL MATCH WALL AND ROOF PANELS.
- 11 NEW 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION, BEYOND, EXTENDING 18" (MINIMUM) BEYOND FACE OF EXTERIOR WALLS AND 30" (MINIMUM) ABOVE PLANE OF ROOF. EXPOSED WALL SURFACES SHALL BE CLAD WITH NEW METAL WALL PANELS TO MATCH THE REST OF THE BUILDING. SEE DETAIL 2/A-312.
- 12 NEW 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION, EXTENDING 18" (MINIMUM) BEYOND FACE OF EXTERIOR WALLS AND 30" (MINIMUM) ABOVE PLANE OF ROOF. PAINT ALL EXPOSED SURFACES. COLOR SHALL MATCH WALL PANELS.
- 13 PRE-FINISHED 24GA COPING OVER 40MIL RUBBERIZED SELF-ADHERING WATERPROOFING MEMBRANE OVER PRESSURE-TREATED DOUBLE 2X10'S, RIPPED OVER NEW 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION. COLOR SHALL MATCH ROOF PANELS. SEE DETAIL 2/A-312.
- 14 EXISTING FIRE DEPARTMENT CONNECTION. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 15 REMOVE EXISTING BUILDING NUMBER, STORE AND PROTECT FOR RE-INSTALLATION AS DIRECTED BY CONTRACTING OFFICER. PATCH HOLES IN METAL WALL PANELS PER WALL PANEL MANUFACTURER'S REQUIREMENTS. TYPICAL.

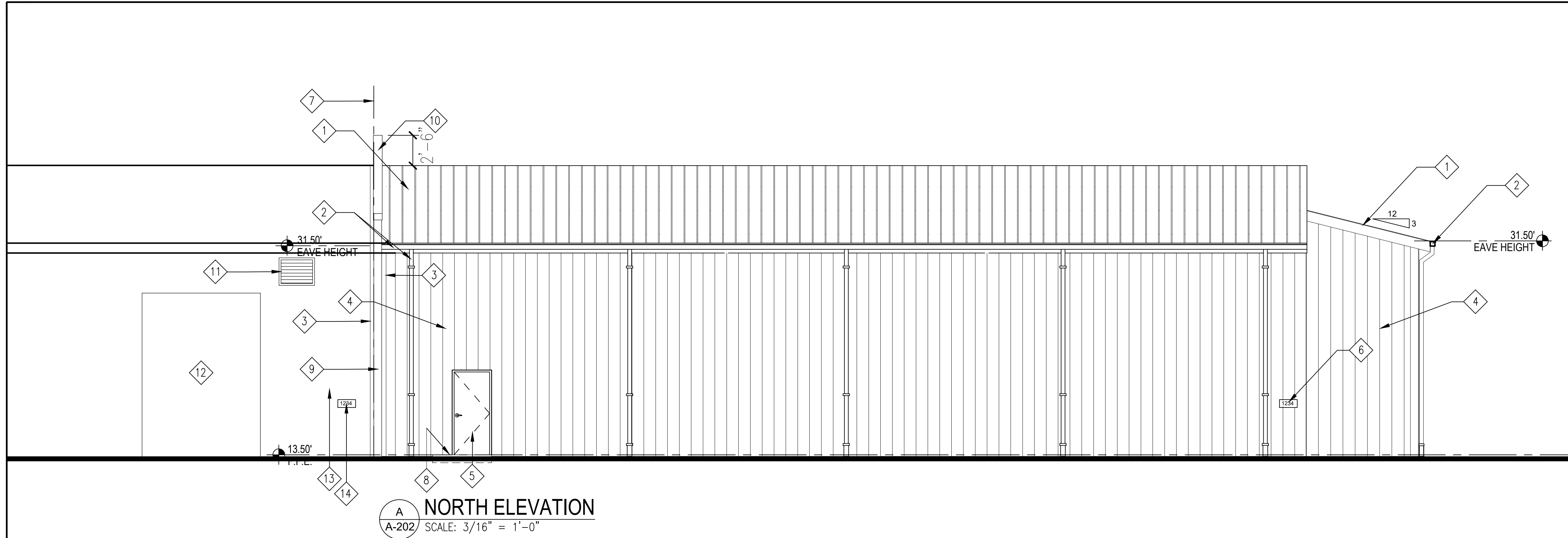
GENERAL NOTES:

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. REFER TO STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF DEMOLITION WORK.



INDEX NO.
A-201

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE				
APPROVED				
CENM				
DRAWN BY: JEF				
PROJ. ENGR. PDM				
CONTENTS		DATE		
EXTERIOR ELEVATIONS		14 JUNE 2024		
APPROVED		SCALE		
96 CEG/CEN		AS SHOWN		
APPROVED		BASE CIVIL ENGINEER		
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 18 OF 50



A NORTH ELEVATION
A-202 SCALE: 3/16" = 1'-0"

EXTERIOR FINISHES:

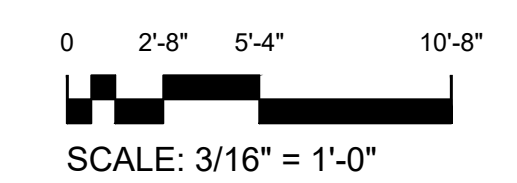
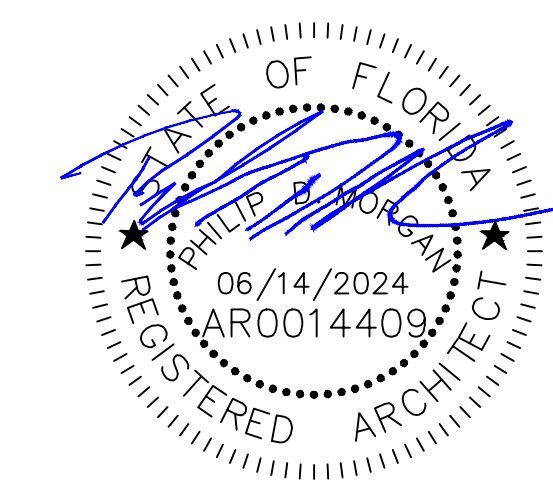
- BUILDING DESIGN STANDARDS**
- WALL SYSTEMS**
METAL SIDING. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE
- ROOF SYSTEMS**
STANDING SEAM METAL ROOF. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.
FASCIA. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.
GUTTER. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.
DOWNSPOUT. COLOR: BASIS OF DESIGN: NUCOR WARM WHITE.
DOWNSPOUT TRANSITION COLOR AT WALL (TO MATCH METAL SIDING).
- DOORS**
PAINTED EXTERIOR HOLLOW METAL DOORS AND FRAMES—MATCH EXISTING.
- ANCILLARY STRUCTURES**
LOUVERS (TO MATCH METAL SIDING). COLOR: MATCH EXISTING.
- SITE DESIGN STANDARDS**
- EXTERIOR SIGNAGE**
BUILDING NUMBER SIGNS. REFERENCE UFC 3-120-01, DESIGN: SIGN STANDARDS.
BUILDING SIGN. REFERENCE UFC 3-120-01, DESIGN: SIGN STANDARDS.
- EXTERIOR LIGHTING**
HOUSING AND POSTS, WHERE APPLICABLE.
- LANDSCAPING**
SOD SHALL BE ARGENTINE BAHIA. SEE CIVIL DOCUMENTS FOR REQUIREMENTS.

KEYNOTES:

- 1 PREFINISHED STANDING SEAM PEMB METAL ROOF SYSTEM. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING BUILDING. TYPICAL. SEE EXTERIOR FINISHES THIS SHEET, A-202.
- 2 6" x 5" PRE-FINISHED METAL GUTTER AND 4" x 5" DOWNSPOUT TO MATCH EXISTING BUILDING. TIE DOWNSPOUTS INTO UNDERGROUND STORM SEWER. SEE CIVIL DOCUMENTS. TYPICAL.
- 3 EXPANSION JOINT SYSTEM AT WALLS AND ROOF BY METAL BUILDING MANUFACTURER. BASIS OF DESIGN IS NUCOR TO MATCH EXISTING.
- 4 PREFINISHED PEMB METAL WALL PANELS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING BUILDING, TYPICAL. SEE EXTERIOR FINISHES THIS SHEET, A-202.
- 5 GALVANIZED INSULATED HOLLOW METAL DOOR AND FRAME. DOOR AND FRAME SHALL COMPLY WITH AT/FP REQUIREMENTS. SEE DOOR SCHEDULE SHEET A-601. DOORS SHALL MATCH EXISTING, TYPICAL.
- 6 RE-INSTALL EXISTING BUILDING SIGNAGE, LOCATION TO BE COORDINATED BY GOVERNMENT.
- 7 LINE OF EXISTING WAREHOUSE BUILDING TO REMAIN. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 8 NEW 5'x5' REINFORCED CONCRETE STOOP WITH BROOM FINISH AND TURNED-DOWN PERIMETER. BACK EDGE SHALL BE FLUSH WITH FINISH FLOOR. STOOP SHALL HAVE POSITIVE SLOPE TO DRAIN AWAY FROM THE BUILDING (2% MAX.).
- 9 NEW 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION, EXTENDING 18" (MINIMUM) BEYOND FACE OF EXTERIOR WALLS AND 30" (MINIMUM) ABOVE PLANE OF ROOF. PAINT ALL EXPOSED SURFACES. COLOR SHALL MATCH WALL PANELS. SEE DETAILS 3/A-310 AND 2/A-312.
- 10 PRE-FINISHED 24GA COPING OVER 40MIL RUBBERIZED SELF-ADHERING WATERPROOFING MEMBRANE OVER PRESSURE-TREATED DOUBLE 2X10'S, RIPPED OVER NEW 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION. COLOR SHALL MATCH ROOF PANELS. SEE DETAIL 2/A-312.
- 11 EXISTING THROUGH-WALL LOUVER IN NEW LOCATION IN EXISTING WALL WITH MECHANICAL DOCUMENTS. PROVIDE ALL REQUIRED TRIM AND SEALANT AROUND NEW THROUGH-WALL PENETRATION.
- 12 EXISTING OVERHEAD COILING DOOR TO REMAIN, TYPICAL.
- 13 EXISTING METAL WALL PANELS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 14 REMOVE EXISTING BUILDING NUMBER, STORE AND PROTECT FOR RE-INSTALLATION AS DIRECTED BY CONTRACTING OFFICER. PATCH HOLES IN METAL WALL PANELS PER WALL PANEL MANUFACTURER'S REQUIREMENTS. TYPICAL.

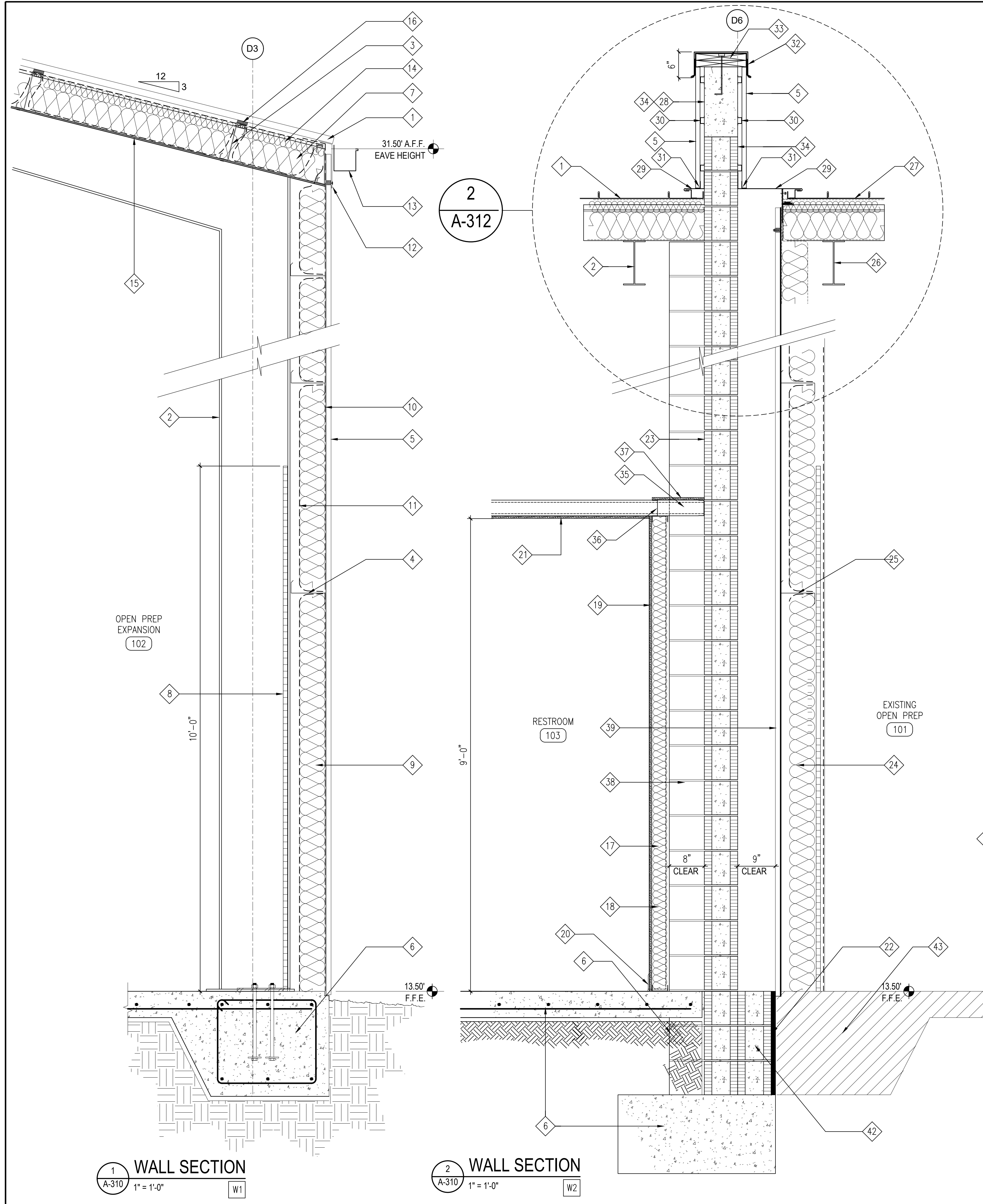
GENERAL NOTES:

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
2. REFER TO STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF DEMOLITION WORK.



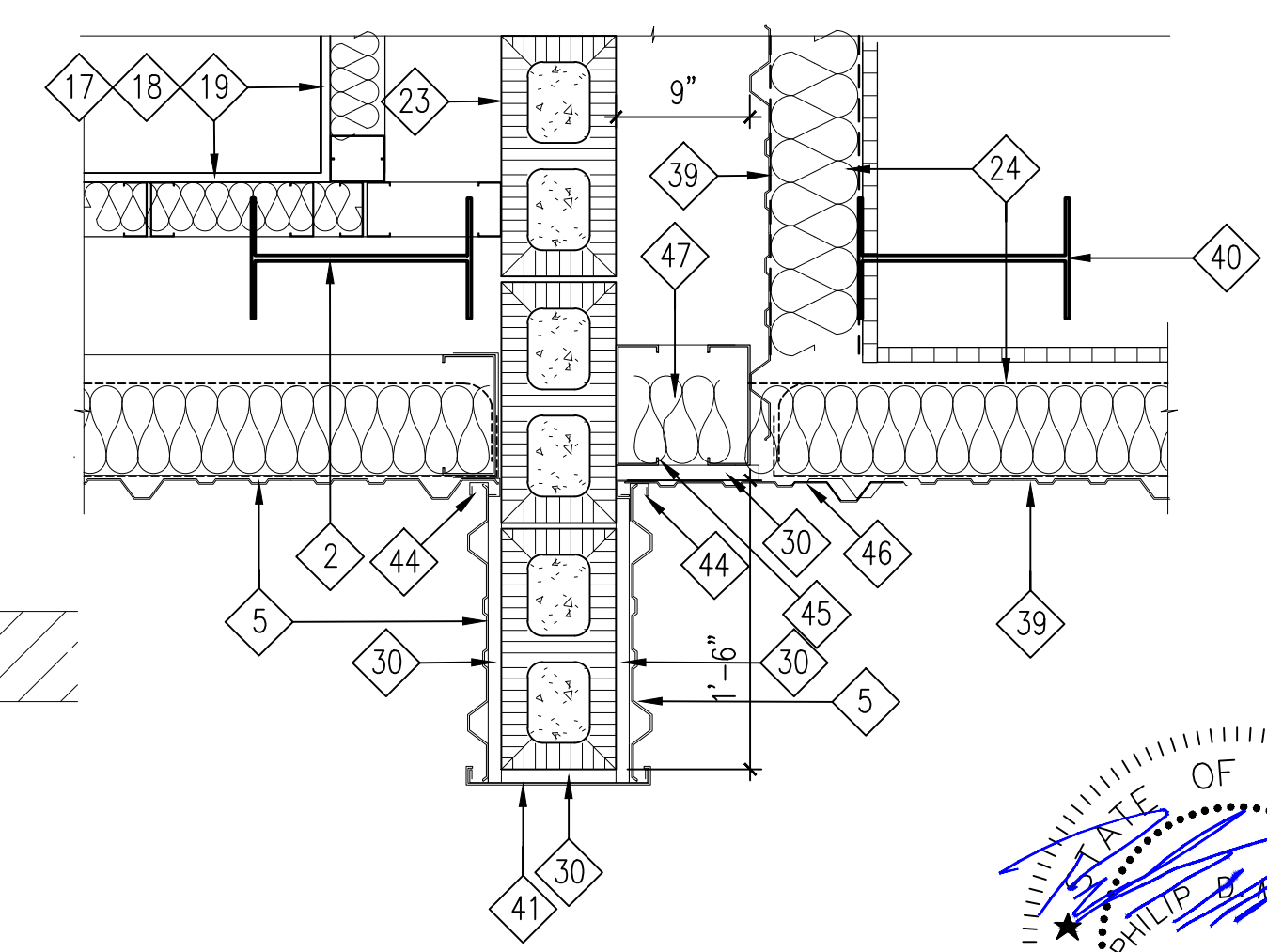
INDEX NO.
A-202

REVISION	DATE	DESCRIPTION	BY	APPR'D
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AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	JEF			
PROJ. ENGR. PDM				
		CONTENTS		
		EXTERIOR ELEVATION		
		APPROVED	DATE	
		96 CEG/CEN	14 JUNE 2024	
		APPROVED	SCALE	
		BASE CIVIL ENGINEER	AS SHOWN	
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	SHEET
24AC	FTFA23VH48	24AC		19 OF 50

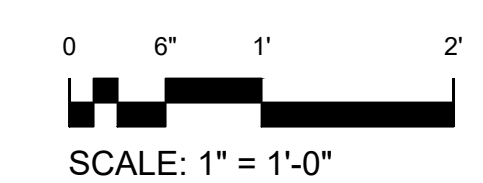
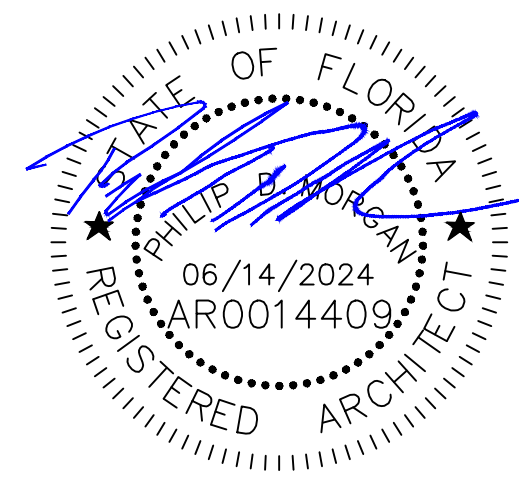


KEYNOTES:

- 1 PREFINISHED STANDING SEAM PEMB ROOF PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 2 PEMB FRAME, SEE STRUCTURAL DOCUMENTS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 3 PEMB PURLIN, SEE STRUCTURAL DOCUMENTS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 4 PEMB GIRT, SEE STRUCTURAL DOCUMENTS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 5 1 1/4" PREFINISHED METAL PEMB WALL PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 6 6" REINFORCED CONCRETE SLAB AND FOUNDATION, SEE STRUCTURAL DOCUMENTS
- 7 R-19 BATT INSULATION WITH VAPOR RETARDER (PERFORATED) AT BOTTOM SIDE. SIMPLE SAVER SYSTEM, TYP.
- 8 PREFINISHED METAL LINER PANEL, 1" THICK NOMINAL, TO 10'-0" A.F.F. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 9 R-16 BATT INSULATION
- 10 VAPOR RETARDER (NON-PERFORATED)
- 11 VAPOR RETARDER (PERFORATED)
- 12 PREFINISHED METAL PEMB FASCIA. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 13 PREFINISHED 6" X 5" PEMB GUTTER AND 4" X 5" DOWNSPOUT SYSTEM. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 14 R-11 BATT INSULATION WITH VAPOR RETARDER (NON-PERFORATED) AT TOP SIDE, SIMPLE SAVER SYSTEM, TYP.
- 15 PREFINISHED GALVANIZED SUPPORT BAND GRID SYSTEM FASTENED TO UNDERSIDE OF PEMB PURLINS TO SUPPORT ROOF INSULATION
- 16 PEMB THERMAL SPACER
- 17 3 5/8" 22GA GALVANIZED METAL STUDS @ 16" O.C.
- 18 3" SAFB INSULATION, FRICTION FIT, FULL HEIGHT OF WALL. FASTEN TO PREVENT VOID AT TOP.
- 19 5/8" GYPSUM BOARD, TAPED MUDDED AND FINISHED CONTINUOUS TO 10'-0" A.F.F., ALL JOINTS SHALL BE STAGGERED.
- 20 VINYL WALL BASE, SEE ROOM FINISH SCHEDULE SHEET I-601.
- 21 5/8" MOISTURE RESISTANT GYPSUM WALLBOARD CEILING ON 3 5/8" GALVANIZED METAL STUDS
- 22 EXISTING CONCRETE SLAB AND FOUNDATION SYSTEM TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK. COORDINATE NEW SLAB AND FOUNDATION SYSTEM WITH STRUCTURAL DOCUMENTS AND METAL BUILDING SHOP DRAWINGS. TYPICAL.
- 23 NEW 3-HOUR FIRE-RATED 8" REINFORCED CMU WALL, WITH ALL CELLS FILLED SOLID WITH CONCRETE. SEE STRUCTURAL DOCUMENTS. PAINT INTERIOR EXPOSED SURFACES.
- 24 EXISTING WALL CONSTRUCTION TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 25 EXISTING WALL GIRT TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 26 EXISTING PEMB FRAME TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 27 EXISTING STANDING SEAM METAL ROOF SYSTEM TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 28 NEW REINFORCED CONCRETE BOND BEAM, CONTINUOUS. SEE STRUCTURAL DOCUMENTS.
- 29 NEW PRE-FINISHED 24GA ROOF-TO-WALL FLASHING, CONTINUOUS, BY STANDING SEAM METAL ROOFING MANUFACTURER. COLOR SHALL MATCH ROOF PANELS. SEE SPECIFICATIONS.
- 30 NEW 20GA 7/8" GALV. STEEL FURRING CHANNELS AT 16" O.C. MAX., CONTINUOUS.
- 31 NEW PRE-FINISHED 24GA WALL PANEL DRIP TRIM, CONTINUOUS, BY STANDING SEAM METAL ROOFING MANUFACTURER. COLOR SHALL MATCH ROOF PANELS. SEE SPECIFICATIONS.
- 32 NEW PRE-FINISHED 24GA COPING CAP WITH 22GA GALV. STEEL CLEAT, BOTH SIDES, CONTINUOUS, BY STANDING SEAM METAL ROOFING MANUFACTURER. COLOR SHALL MATCH ROOF PANELS. SEE SPECIFICATIONS.
- 33 NEW DOUBLE PRESSURE-TREATED 2X12S, CONT., WITH COUNTERSUNK ANCHOR BOLTS AT 32" O.C. MAX., AND 40MIL SELF-ADHERING WATERPROOF MEMBRANE ON TOP AND EXTENDING DOWN SIDES OF 2X12'S. SEE STRUCTURAL DOCUMENTS.
- 34 COAT ALL SURFACES OF CMU AND CONCRETE BEAM WITH FLUID-APPLIED WATERPROOFING, EQUAL TO W.R. MEADOWS HYDRALASTIC 836 SL. FROM TOP OF ROOF PANEL TO TOP OF WALL. TYPICAL.
- 35 EXTEND NEW CEILING JOISTS TO FACE OF CMU TO CLOSE OFF CHASE, TYPICAL.
- 36 NEW 3-5/8" 22GA GALV. STEEL STUD BETWEEN EACH JOIST, FULL EXTENT OF CHASE, TYPICAL.
- 37 NEW 5/8" TYPE 'X' GYPSUM BOARD, CONTINUOUS, TO CLOSE OFF CHASE, TYPICAL.
- 38 REINFORCED CMU PILASTER, BEYOND. SEE STRUCTURAL DOCUMENTS. TYPICAL.
- 39 EXISTING METAL WALL PANELS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 40 EXISTING PEMB FRAME TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 41 NEW PRE-FINISHED METAL PANEL AT END OF NEW CMU WALL BY METAL BUILDING MANUFACTURER, CONTINUOUS. BASIS OF DESIGN IS NUCOR TO MATCH EXISTING.
- 42 NEW FULLY-GROUTED CMU, CONTINUOUS. SEE STRUCTURAL DOCUMENTS.
- 43 EXISTING CONCRETE SLAB AND FOUNDATION SYSTEM TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 44 NEW PRE-FINISHED METAL INSIDE CORNER PANEL TRIM BY METAL BUILDING MANUFACTURER, CONTINUOUS. BASIS OF DESIGN IS NUCOR TO MATCH EXISTING.
- 45 NEW 8" 18GA GALV. STEEL STUDS, FULL HEIGHT OF WALL TO INFILL GAP BETWEEN NEW ADDITION AND EXISTING BUILDING. TYPICAL.
- 46 NEW PRE-FINISHED METAL WALL PANEL, FULL HEIGHT OF WALL, BY METAL BUILDING MANUFACTURER, CONTINUOUS. BASIS OF DESIGN IS NUCOR TO MATCH EXISTING. NEW PANEL SHALL MATCH EXISTING PROFILE IN ORDER TO OVERLAP AND NEST, AND CLOSE GAP BETWEEN NEW ADDITION AND EXISTING BUILDING. TYPICAL. SECURE PANEL WITH GASKETED FASTENERS AS REQUIRED BY METAL PANEL MANUFACTURER. SEAL LAP WITH TWO CONTINUOUS STRIPS OF BUTYL TAPE, FULL HEIGHT OF WALL. TYPICAL.
- 47 FILL VOID SOLID WITH NON-ABSORPTIVE ROCK WOOL, FULL HEIGHT OF WALL.

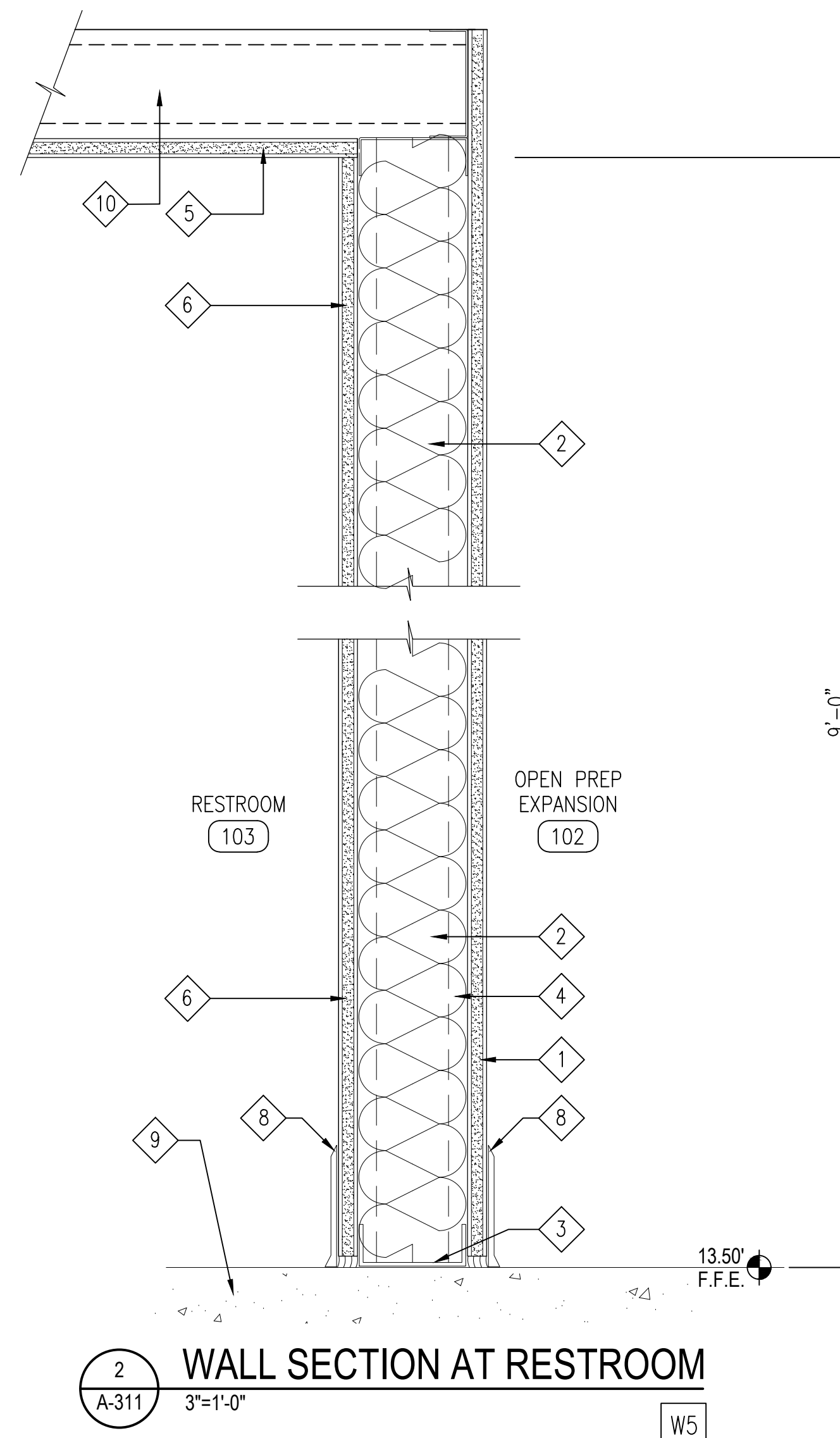
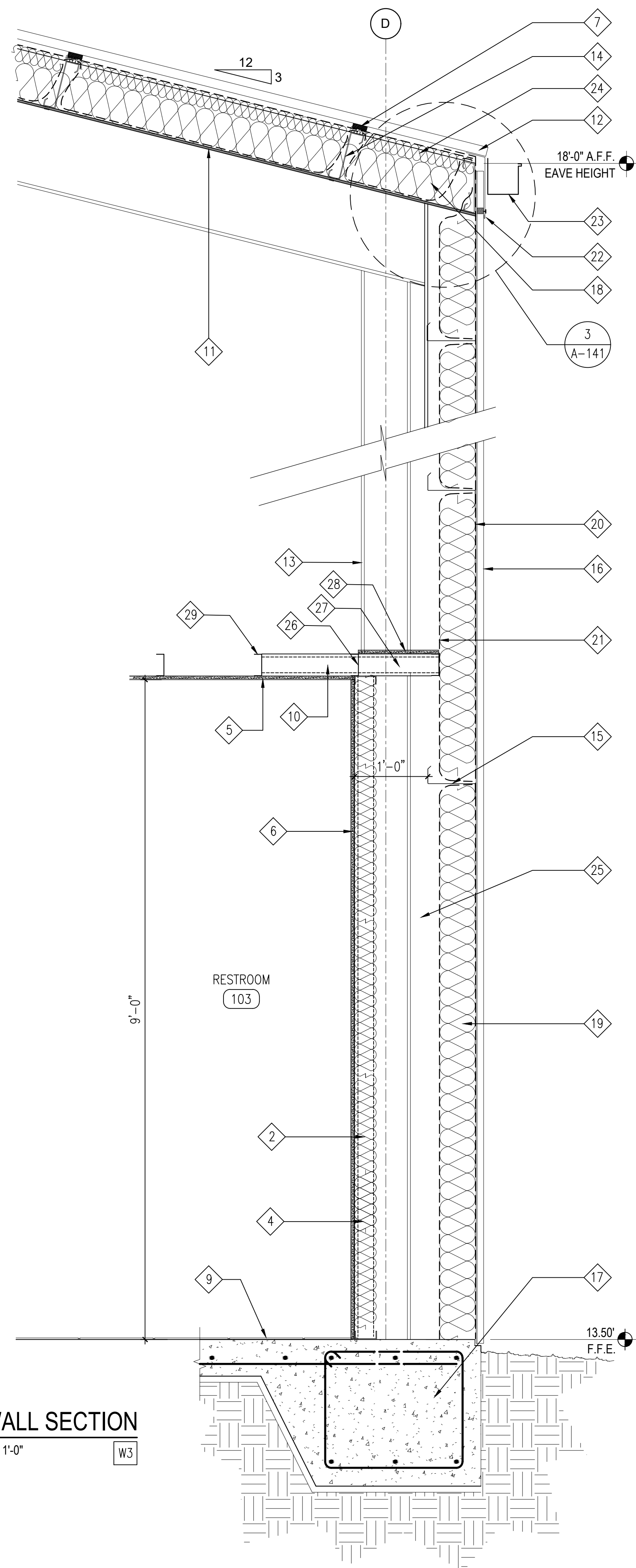


3 WALL DETAIL
A-310 1" = 1'-0"



INDEX NO.
A-310

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT DATE _____ SIGNATURE _____ APPROVED _____ CENM _____ DRAWN BY JEF PROJ. ENGR_PDM		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
		CONTENTS WALL SECTIONS		
APPROVED _____ 96 CEG/CEN APPROVED _____ BASE CIVIL ENGINEER		DATE 14 JUNE 2024 SCALE AS SHOWN		
SPEC. NO. 24AC	PROJ. NO. 23VH48	DRAWING NO. 24AC	FILE NO. XX	SHEET 20 OF 50



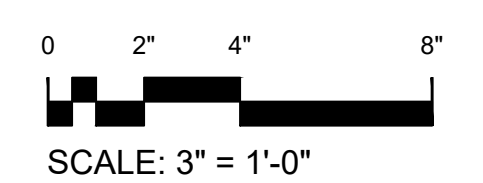
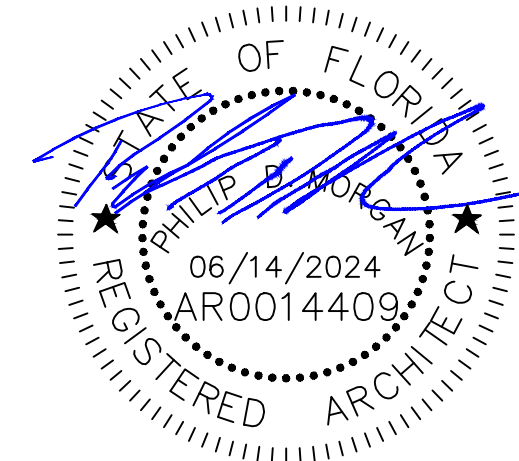
KEYNOTES:

- 1 5/8" TYPE 'X' GYPSUM BOARD, TAPED MUDDED AND FINISHED CONTINUOUS TO 10'-0" A.F.F., ALL JOINTS SHALL BE STAGGERED.
- 2 3" INSULATION
- 3 3 5/8"-18G GALVANIZED STUD TRACK
- 4 3 5/8"-18G GALVANIZED METAL STUDS @ 16" O.C.
- 5 5/8" MOISTURE RESISTANT GYPSUM WALLBOARD CEILING ON 3 5/8" 22GA GALVANIZED METAL STUDS.
- 6 5/8" MOISTURE RESISTANT GYPSUM WALL BOARD, TAPED MUDDED AND FINISHED CONTINUOUS TO 10'-0" A.F.F., ALL JOINTS SHALL BE STAGGERED.
- 7 PEBB THERMAL SPACER
- 8 VINYL WALL BASE, SEE ROOM FINISH SCHEDULE SHEET I-601.
- 9 6" THICK REINFORCED CONCRETE FLOOR SLAB OVER CLASS 'B' REINFORCED MULTI-PLY VAPOR RETARDER, TYPICAL. SEE STRUCTURAL DOCUMENTS.
- 10 3-5/8" 20GA GALV. STEEL JOIST AT 16" O.C. TYPICAL.
- 11 PREFINISHED GALVANIZED SUPPORT BAND GRID SYSTEM FASTENED TO UNDERSIDE OF PEBB PURLINS TO SUPPORT ROOF INSULATION
- 12 PREFINISHED STANDING SEAM PEBB ROOF PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 13 PEBB FRAME, SEE STRUCTURAL DOCUMENTS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 14 PEBB PURLIN, SEE STRUCTURAL DOCUMENTS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 15 PEBB GIRT, SEE STRUCTURAL DOCUMENTS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 16 1 1/4" PREFINISHED METAL PEBB WALL PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 17 REINFORCED CONCRETE SLAB AND FOUNDATION, SEE STRUCTURAL DOCUMENTS
- 18 R-19 BATT INSULATION WITH VAPOR RETARDER (PERFORATED) AT BOTTOM SIDE. SIMPLE SAVER SYSTEM, TYP.
- 19 R-16 BATT INSULATION
- 20 VAPOR RETARDER (NON-PERFORATED)
- 21 VAPOR RETARDER (PERFORATED)
- 22 PREFINISHED METAL PEBB FASCIA. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 23 PREFINISHED PEBB GUTTER AND DOWNSPOUT SYSTEM. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 24 R-11 BATT INSULATION WITH VAPOR RETARDER (NON-PERFORATED) AT TOP SIDE, SIMPLE SAVER SYSTEM, TYP.
- 25 VOID TO ACCOMMODATE RIGID STEEL FRAME. COORDINATE WITH STRUCTURAL DOCUMENTS.
- 26 3-5/8" STUD BETWEEN JOISTS AS BLOCKING, TYPICAL ALL JOIST SPACES.
- 27 EXTEND JOISTS TO FACE OF VINYL-FACED BATT INSULATION TO CLOSE OFF VOID.
- 28 5/8" TYPE 'X' GYPSUM BOARD, CONTINUOUS, TO CLOSE OFF VOID.
- 29 3-5/8" 22GA GALV. STEEL CEILING JOIST AT 16" O.C., CONTINUOUS, TYPICAL.

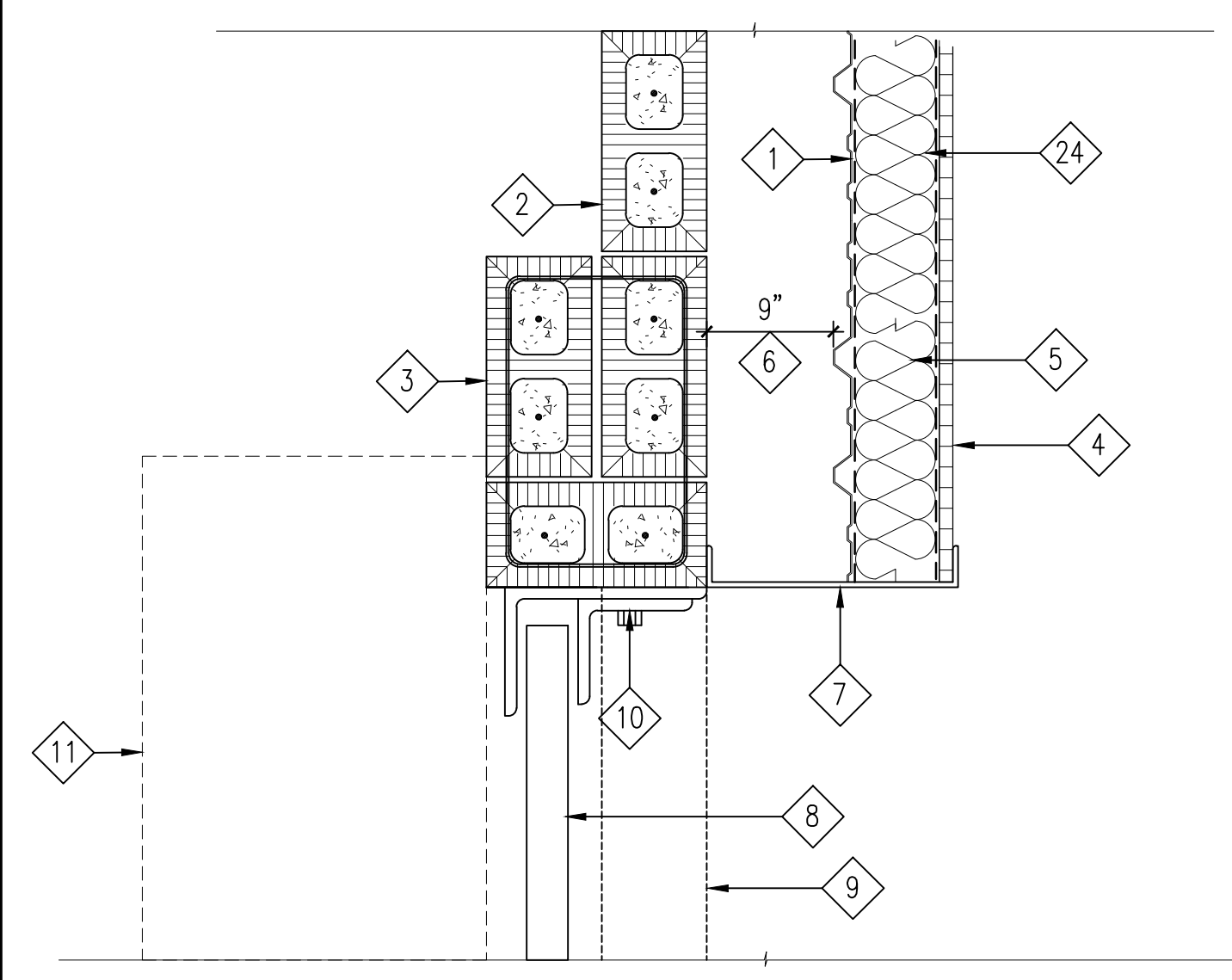
REVISION	DATE	DESCRIPTION	BY	APPR'D

**BASE CIVIL ENGINEER
EGLIN AIR FORCE BASE, FLORIDA**

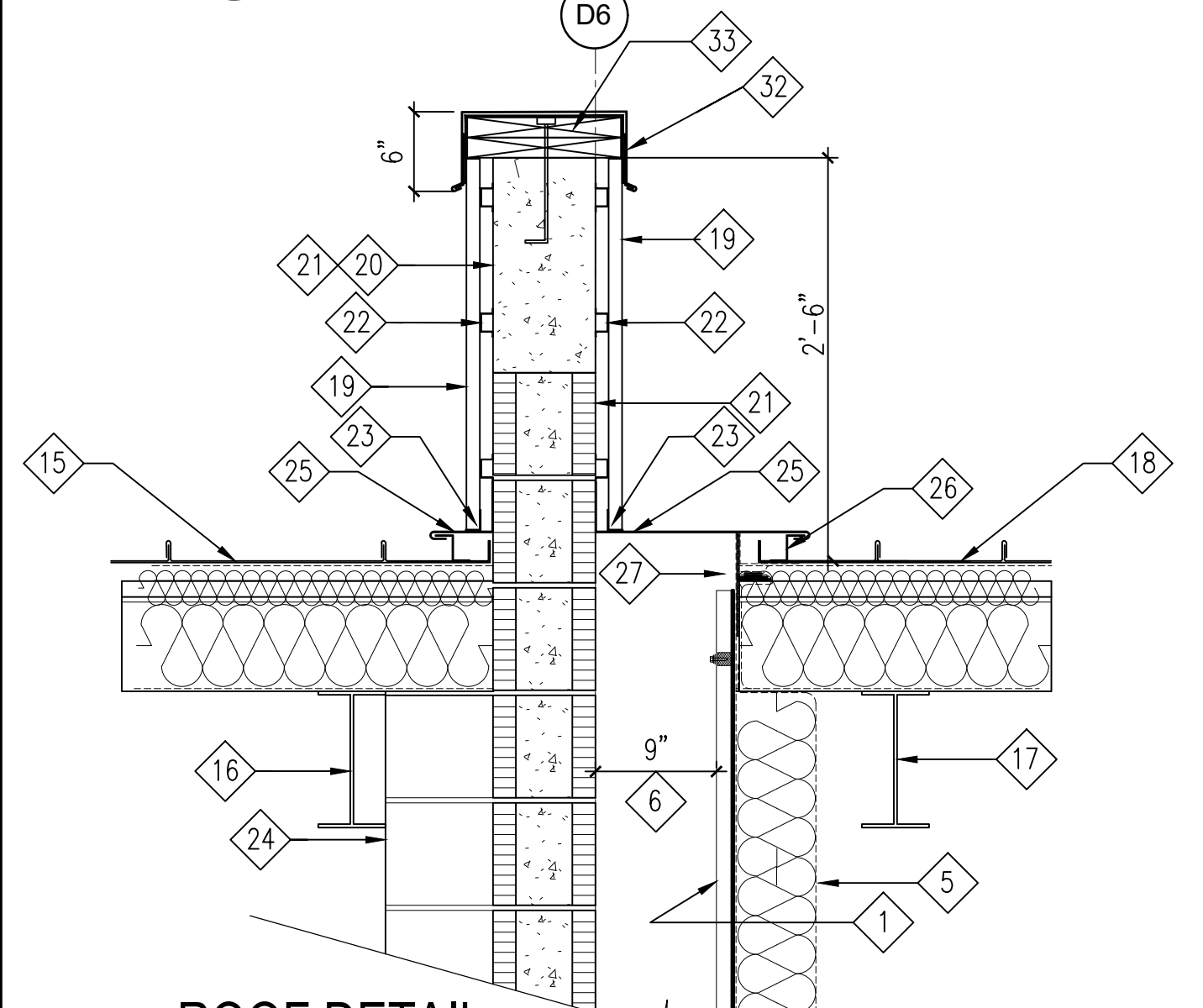
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DATE _____	TITLE _____
SIGNATURE _____	
APPROVED _____	
CENM _____	
DRAWN BY: JEF	
PROJ. ENGR_PDM	
CONTENTS	
WALL SECTIONS	
APPROVED _____	DATE 14 JUNE 2024
96 CEG/CEN	
APPROVED _____	SCALE AS SHOWN
BASE CIVIL ENGINEER	
SPEC. NO. 24AC	PROJ. NO. FTFA 23VH48
DRAWING NO. 24AC	FILE NO. XX
SHEET 21 OF 50	



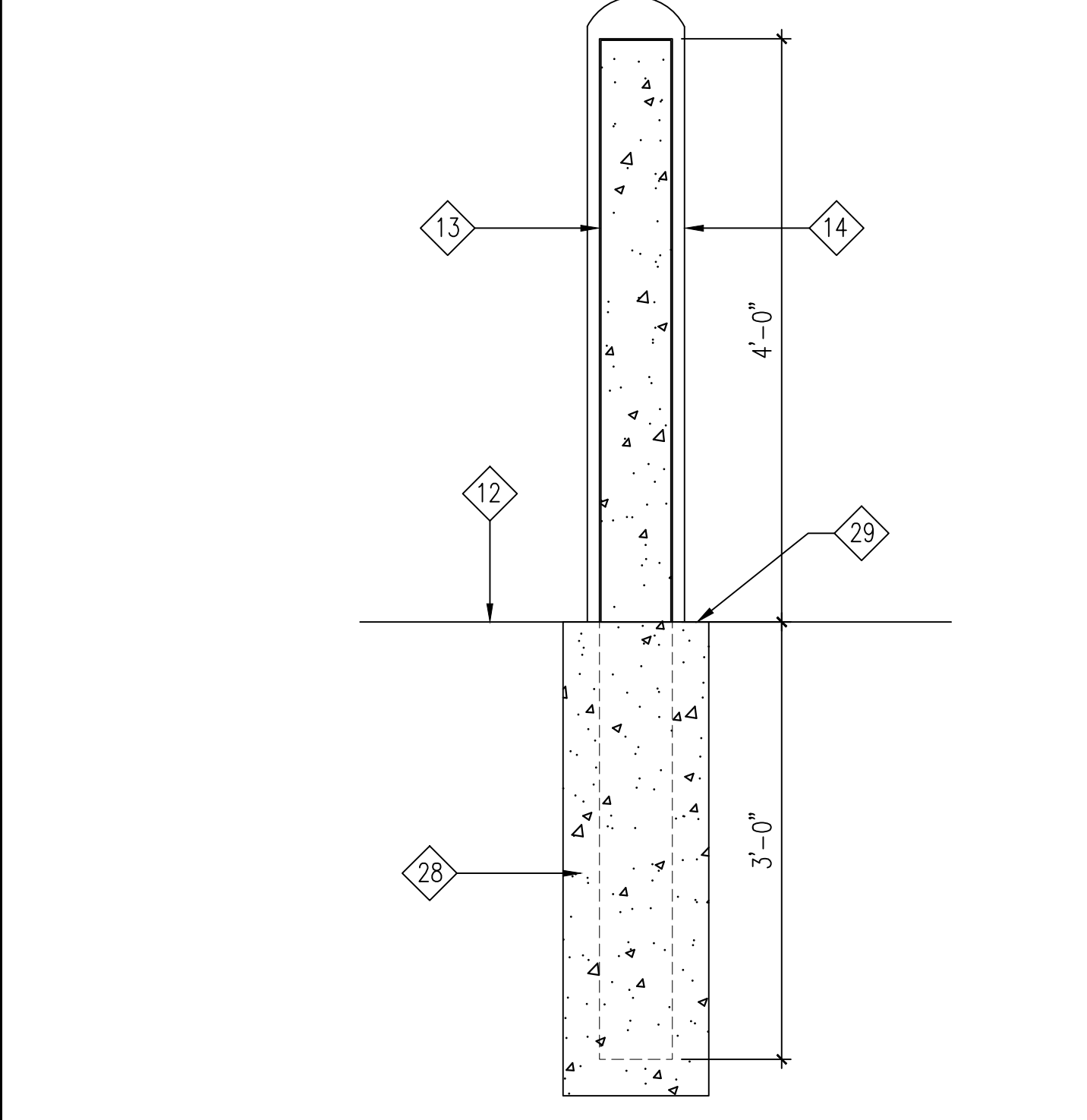
INDEX NO.
A-311



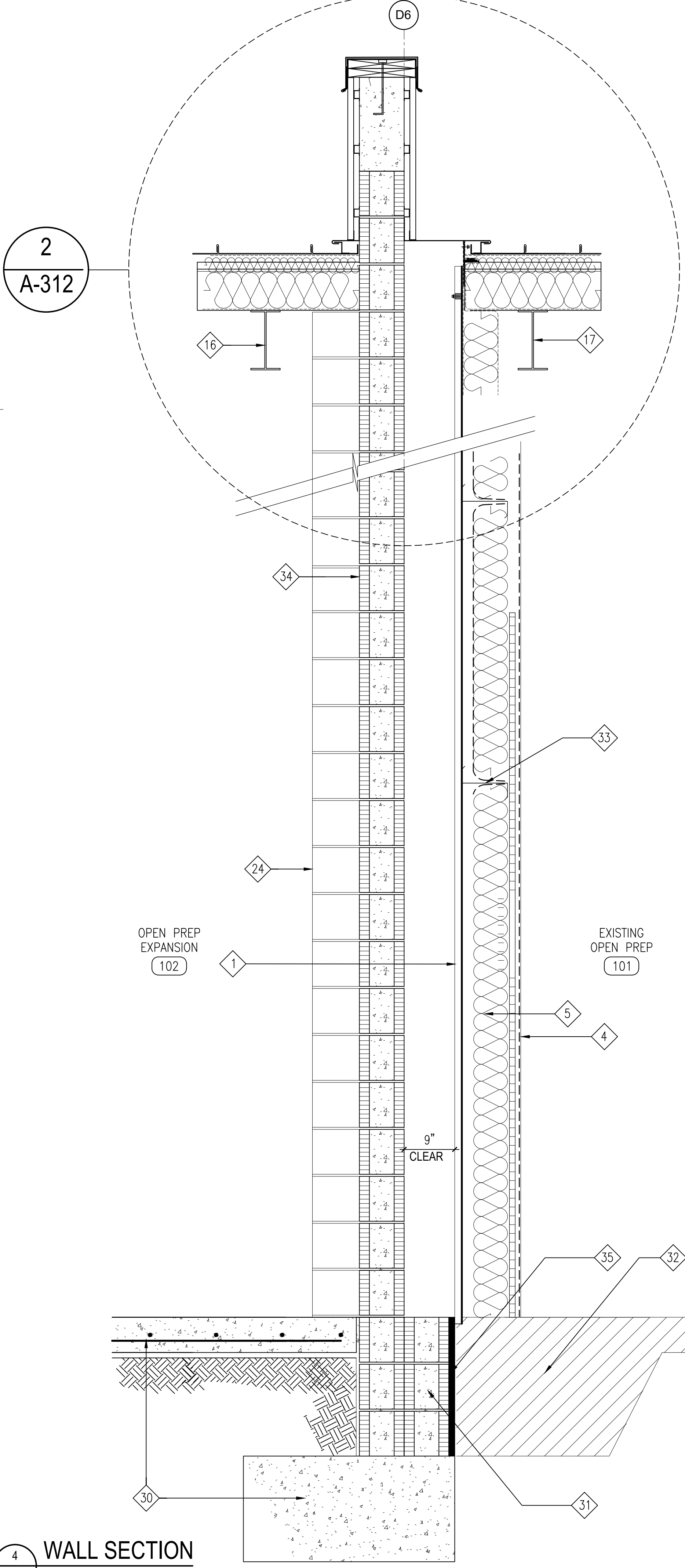
1 WALL DETAIL
A-312 1" = 1'-0"



2 ROOF DETAIL
A-312 1" = 1'-0"



3 BOLLARD DETAIL
A-312 1" = 1'-0"

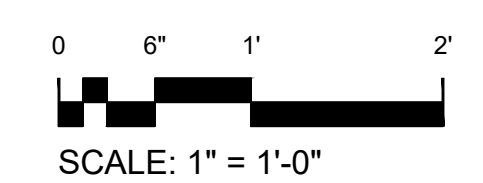
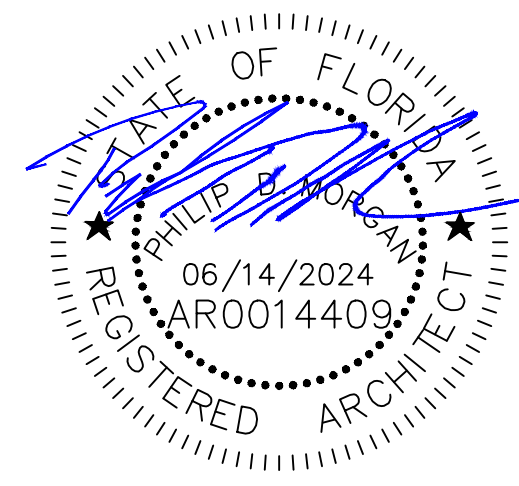


4 WALL SECTION
A-312 1" = 1'-0"

KEYNOTES:

- 1 EXISTING METAL WALL PANELS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 2 NEW 3-HOUR FIRE-RATED 8" REINFORCED CMU WALL, WITH ALL CELLS FILLED SOLID WITH CONCRETE. SEE STRUCTURAL DOCUMENTS. PAINT INTERIOR EXPOSED SURFACES.
- 3 NEW 3-HOUR FIRE-RATED 16"x24" REINFORCED CMU PILASTER, WITH ALL CELLS FILLED SOLID WITH CONCRETE. SEE STRUCTURAL DOCUMENTS. PAINT ALL EXPOSED SURFACES.
- 4 EXISTING METAL LINER PANELS TO REMAIN, TYPICAL. CUT, OR REMOVE PANELS AS REQUIRED TO CREATE NEW OPENING FOR OVERHEAD COILING DOOR SYSTEM. PROTECT EXISTING PANELS TO REMAIN FROM DAMAGE DURING EXTENT OF WORK.
- 5 EXISTING VINYL-FACED BATT INSULATION TO REMAIN, TYPICAL. CUT, OR REMOVE PANELS AS REQUIRED TO CREATE NEW OPENING FOR OVERHEAD COILING DOOR SYSTEM. PROTECT EXISTING BATTS TO REMAIN FROM DAMAGE DURING EXTENT OF WORK. SEAL ANY AND ALL CUT EDGES PER VINYL-FACED INSULATION MANUFACTURER'S RECOMMENDATIONS.
- 6 CLEAR DIMENSION BETWEEN OUTSIDE FACE OF EXISTING WALL PANEL AND FACE OF NEW 3-HOUR FIRE-RATED CMU WALL, TYPICAL. COORDINATE WITH STRUCTURAL DOCUMENTS..
- 7 NEW STRUCTURAL STEEL CHANNEL AND ASSOCIATED ANGLES, TO SUPPORT ENDS OF EXISTING WALL GIRTS THAT ARE CUT TO CREATE NEW OPENING FOR OVERHEAD COILING DOOR SYSTEM, AND TO CAPTURE THE EXPOSED ENDS OF THE EXISTING METAL LINER PANELS THAT ARE TO REMAIN. SEE STRUCTURAL DOCUMENTS. PROVIDE ALL REQUIRED SHORING PRIOR TO CUTTING GIRTS. PAINT ALL EXPOSED SURFACES OF NEW CHANNEL.
- 8 NEW 3-HOUR FIRE-RATED MOTORIZED OVERHEAD COILING DOOR SYSTEM. BASIS OF DESIGN IS COOKSON, TO MATCH EXISTING. SEE SPECIFICATIONS. DOOR SHALL BE OPERATED FROM EXISTING BUILDING SIDE OF OPENING, AND SHALL BE TIED INTO THE FIRE ALARM SYSTEM TO AUTOMATICALLY CLOSE IN CASE OF FIRE.
- 9 LINE OF NEW 3-HOUR FIRE-RATED REINFORCED CMU LINTEL, ABOVE. SEE STRUCTURAL DOCUMENTS.
- 10 NEW STEEL ANGLE GUIDES FOR 3-HOUR FIRE-RATED MOTORIZED OVERHEAD COILING DOOR SYSTEM. BASIS OF DESIGN IS COOKSON, TO MATCH EXISTING. SEE SPECIFICATIONS. GUIDES SHALL BE PER COOKSON REQUIREMENTS.
- 11 LINE OF NEW HOOD FOR 3-HOUR FIRE-RATED MOTORIZED OVERHEAD COILING DOOR SYSTEM. BASIS OF DESIGN IS COOKSON, TO MATCH EXISTING. SEE SPECIFICATIONS. COORDINATE SIZE AND LOCATION OF HOOD WITH OVERHEAD COILING DOOR MANUFACTURER.
- 12 LINE OF NEW/EXISTING CONCRETE FLOOR SLAB. SEE SHEET A-101 FOR BOLLARD LOCATIONS. EXISTING SLAB LOCATIONS SHALL BE CORE-DRILLED TO INSTALL NEW BOLLARDS.
- 13 LINE OF NEW 6" DIA X 7'-0" GALV. STEEL PIPE BOLLARD, FILLED SOLID WITH CONCRETE. TYPICAL.
- 14 NEW PRE-FABRICATED HIGH DENSITY POLYETHYLENE BOLLARD COVER, OSHA YELLOW, SIZE, STYLE, AND PROFILE TO MATCH EXISTING. TYPICAL.
- 15 PREFINISHED STANDING SEAM PEMB ROOF PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 16 PEMB FRAME, SEE STRUCTURAL DOCUMENTS. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 17 EXISTING PEMB FRAME TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 18 EXISTING STANDING SEAM METAL ROOF SYSTEM TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 19 1 1/4" PREFINISHED METAL PEMB WALL PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. TYPICAL.
- 20 NEW REINFORCED CONCRETE BOND BEAM, CONTINUOUS. SEE STRUCTURAL DOCUMENTS.
- 21 COAT ALL SURFACES OF CMU AND CONCRETE BEAM WITH FLUID-APPLIED WATERPROOFING, EQUAL TO W.R. MEADOWS HYDRALASTIC 836 SL. FROM TOP OF ROOF PANEL TO TOP OF WALL. TYPICAL.
- 22 NEW 20GA 7/8" GALV. STEEL FURRING CHANNELS AT 16" O.C. MAX., CONTINUOUS.
- 23 NEW PRE-FINISHED 24GA WALL PANEL DRIP TRIM, CONTINUOUS, BY STANDING SEAM METAL ROOFING MANUFACTURER. COLOR SHALL MATCH ROOF PANELS. SEE SPECIFICATIONS.
- 24 NEW REINFORCED CMU PILASTER, BEYOND. SEE STRUCTURAL DOCUMENTS FOR LOCATIONS.
- 25 NEW PRE-FINISHED 24GA ROOF-TO-WALL FLASHING, CONTINUOUS, BY STANDING SEAM METAL ROOFING MANUFACTURER. COLOR SHALL MATCH ROOF PANELS. SEE SPECIFICATIONS.
- 26 NEW 24GA "Z" CLIP, WITH STRIP OF BUTYL TAPE, CONTINUOUS, BY STANDING SEAM METAL ROOFING INSTALLER, TYPICAL.
- 27 REMOVE EXISTING METAL RAKE TRIM AS REQUIRED TO INSTALL NEW ROOF-TO-WALL FLASHING, TYPICAL.

- 28 NEW CONCRETE AROUND PIPE BOLLARD, 3" COVERAGE MINIMUM AROUND ENTIRE BOLLARD.
- 29 NEW CONCRETE AROUND PIPE BOLLARD SHALL BE SMOOTH AND FLUSH WITH ADJACENT FLOOR SLAB. TYPICAL.
- 30 6" REINFORCED CONCRETE SLAB AND FOUNDATION, SEE STRUCTURAL DOCUMENTS
- 31 NEW FULLY-GROUTED CMU, CONTINUOUS. SEE STRUCTURAL DOCUMENTS.
- 32 EXISTING CONCRETE SLAB AND FOUNDATION SYSTEM TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 33 EXISTING WALL GIRTS TO REMAIN, TYPICAL. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 34 NEW 3-HOUR FIRE-RATED 8" REINFORCED CMU WALL, WITH ALL CELLS FILLED SOLID WITH CONCRETE. SEE STRUCTURAL DOCUMENTS. PAINT INTERIOR EXPOSED SURFACES.
- 35 NEW 1" EXPANSION JOINT, CONTINUOUS, TYPICAL. SEE STRUCTURAL DOCUMENTS..



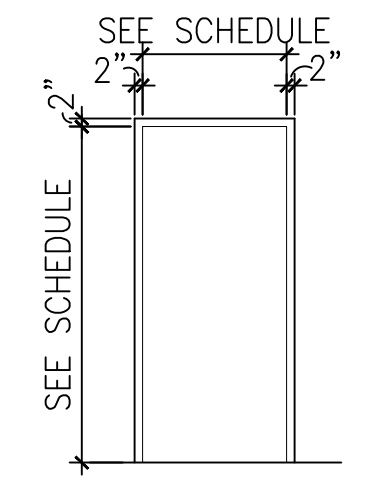
INDEX NO.
A-312

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	JEF			
PROJ. ENGR. PDM				
CONTENTS		DETAILS		
APPROVED	DATE		14 JUNE 2024	
96 CEG/CEN				
APPROVED	SCALE		AS SHOWN	
BASE CIVIL ENGINEER				
SPEC. NO. 24AC	PROJ. NO. 23VH48	DRAWING NO. 24AC	FILE NO. XX	SHEET 22 OF 50

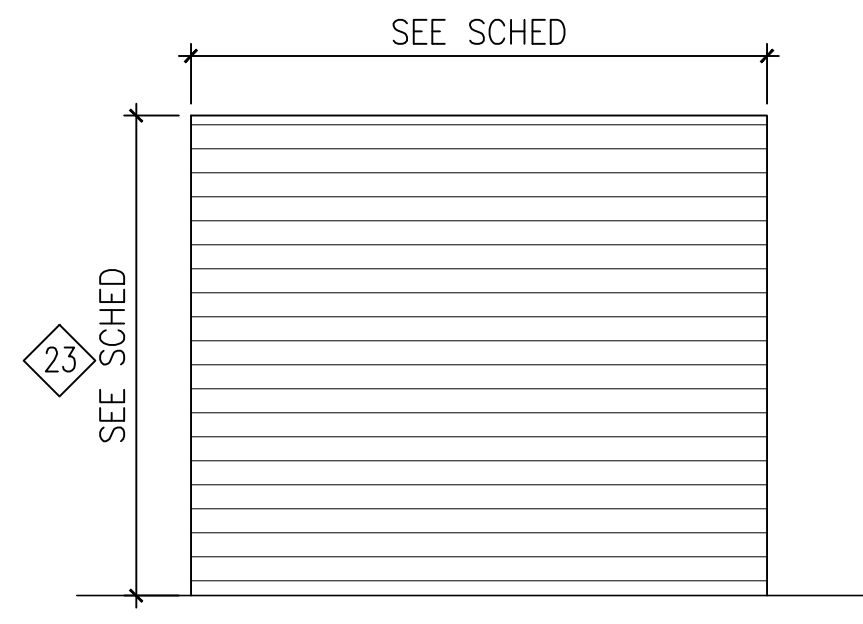
DOOR SCHEDULE													
DOOR NUMBER	TYPE	DOOR TYPE				FIRE RATING	STC RATING	FRAME MATERIAL	DETAILS			HARDWARE SET	COMMENTS
		WIDTH	HEIGHT	THICKNESS	MATERIAL				HEAD	JAMB	SILL		
101A	B	10'-0"	10'-0"	1 3/4"	STL	3 HOUR	-	STL	5/A-601	6/A-601	-	4	
101B	A	3'-0"	7'-0"	1 3/4"	HM	-	-	HM	3/A-601	4/A-601	-	1	1
101C	A	3'-0"	7'-0"	1 3/4"	HM	-	-	HM	3/A-601	4/A-601	-	1	1
102	A	3'-0"	7'-0"	1 3/4"	HM	-	-	HM	1/A-601	2/A-601	-	3	
103	A	(PR) 3'-0"	7'-0"	1 3/4"	HM	-	-	HM	3/A-601	4/A-601	-	2	1

DOOR AND FRAME TYPES

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



(A)
HOLLOW METAL (HM) DOOR WITH HOLLOW METAL FRAME W/ 2" FACE



(B)
3-HOUR FIRE-RATED OVERHEAD COILING DOOR (BASIS OF DESIGN IS COOKSON THERMISER OVERHEAD DOOR, WITH TAN GALVANEX FINISH)

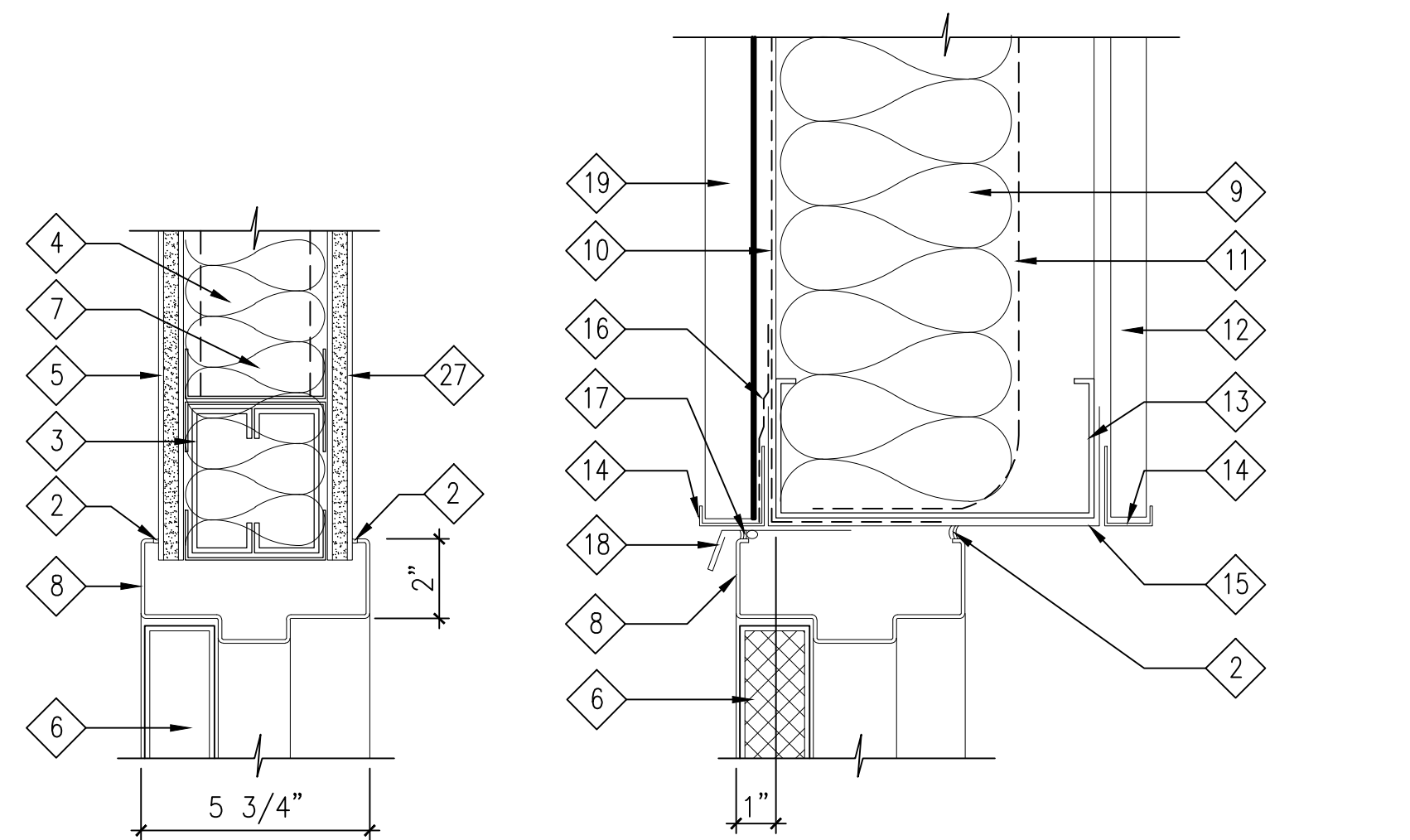
DOOR SCHEDULE COMMENTS:

- COORDINATE ALL KEYING WITH EGLIN BASE LOCKSMITH.

DOOR SCHEDULE NOTES:

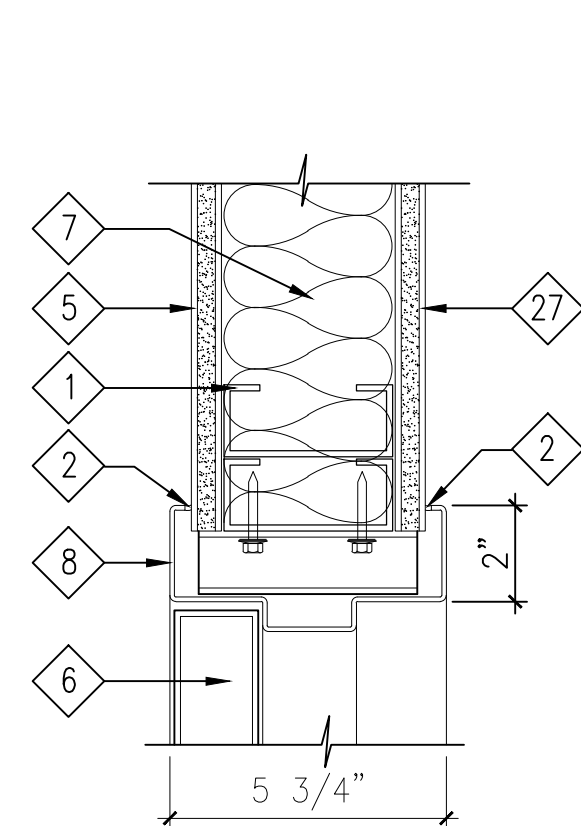
- FOR DOOR HARDWARE SETS REFERENCE SPEC SECTION 08 71 00.
- OHCD SHALL BE MOTORIZED WITH MANUAL BACKUP. BASIS OF DESIGN IS COOKSON.
- OHCD SYSTEM SHALL BE 3-HOUR FIRE-RATED. COORDINATE WITH FIRE ALARM AND ELECTRICAL DOCUMENTS. BASIS OF DESIGN IS COOKSON.

DOOR DETAILS

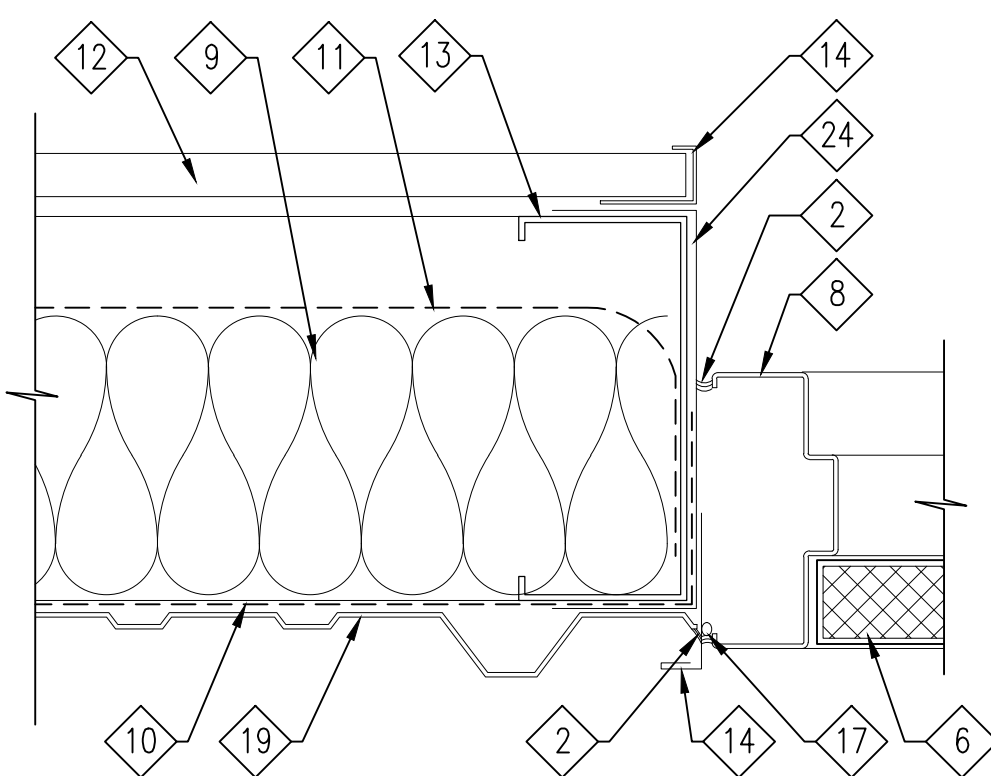


1 DOOR HEAD
A-601 3"=1'-0"

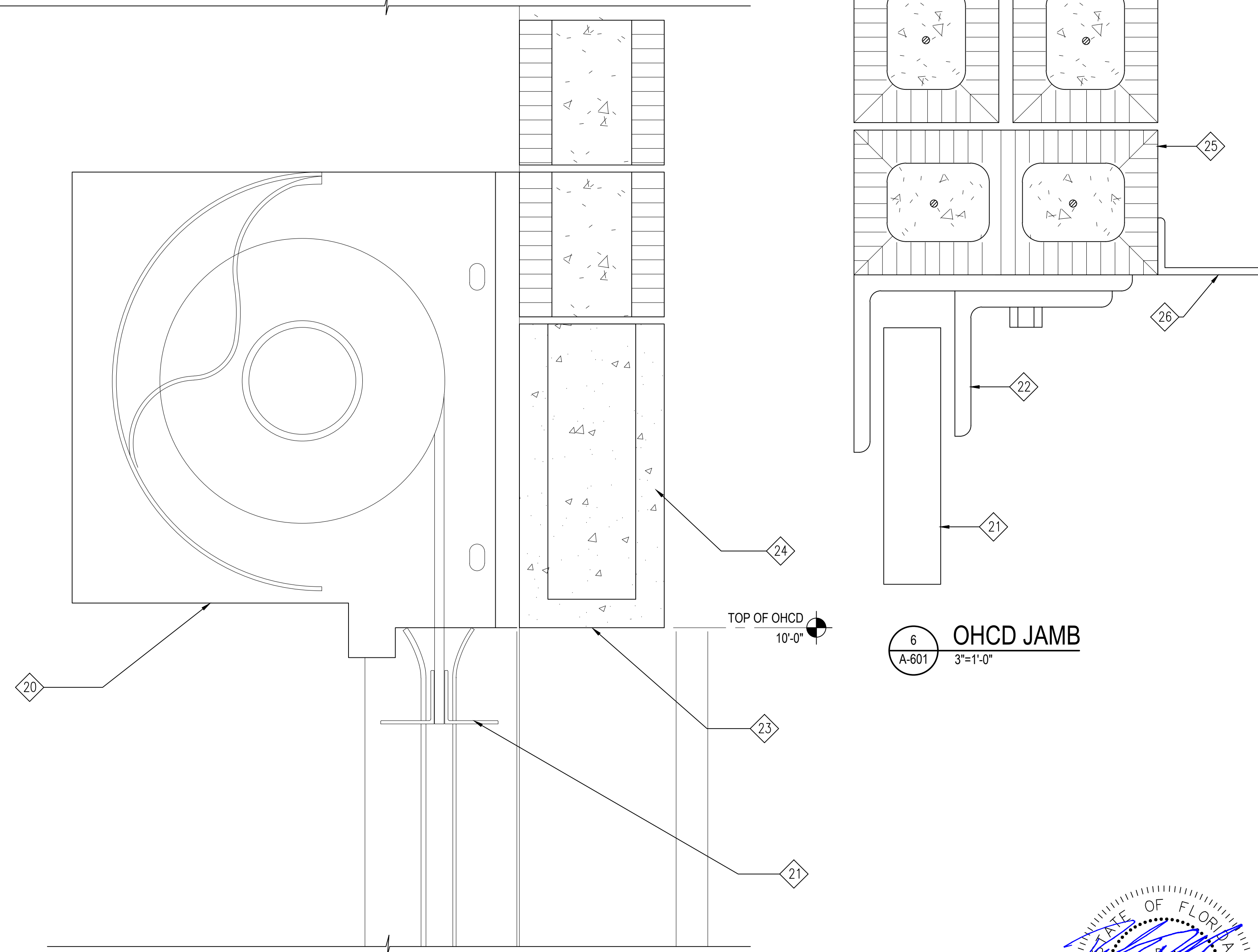
3 DOOR HEAD
A-601 3"=1'-0"



2 DOOR JAMB
A-601 3"=1'-0"



4 DOOR JAMB
A-601 3"=1'-0"

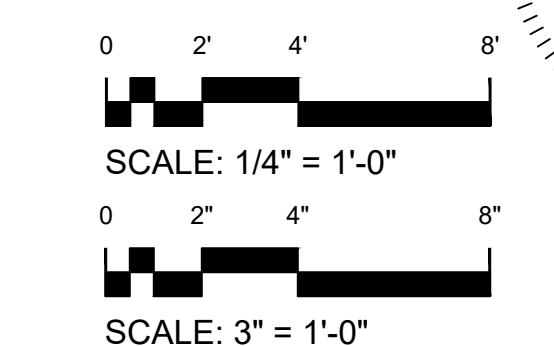
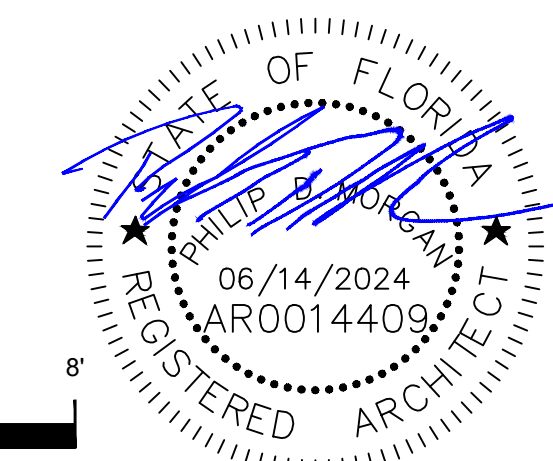


5 OHCD HEAD
A-601 3"=1'-0"

6 OHCD JAMB
A-601 3"=1'-0"

KEYNOTES:

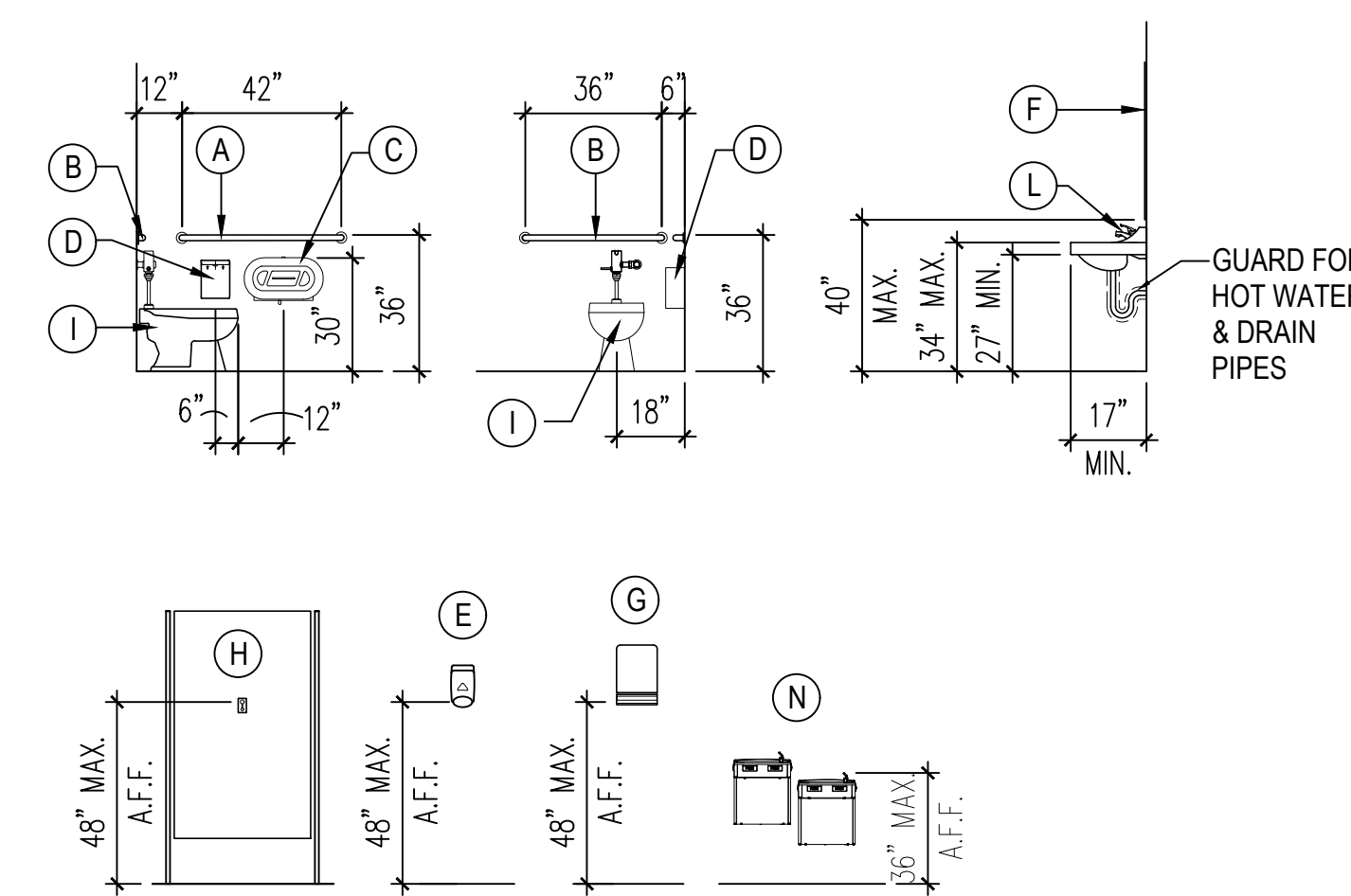
- DBL JAMB STUD
- CONTINUOUS SEALANT
- DBL 3 5/8" 18Gα MTL STUD HEADER
- 3 5/8" 18Gα GALVANIZED METAL STUDS @ 16" O.C.
- 5/8" TYPE 'X' GYPSUM BOARD, PAINTED, TYPICAL. SEE FINISH SCHEDULE SHEET I-601.
- DOOR AS SCHEDULED. SEE DOOR SCHEDULE THIS SHEET.
- SAFB INSULATION WHERE INDICATED
- GALVANIZED HOLLOW METAL FRAME. PROVIDE 3 JAMB ANCHORS EACH SIDE
- R-16 BATT INSULATION
- VAPOR RETARDER (NON-PERFORATED), TURN INTO OPENING
- VAPOR RETARDER (PERFORATED)
- PREFINISHED METAL LINER PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. SEE SPECIFICATIONS.
- PEMB FRAMING. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. SEE STRUCTURAL AND SPECIFICATIONS.
- PREFINISHED PEMB METAL CLOSURE TRIM. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. SEE SPECIFICATIONS.
- PREFINISHED METAL PEMB HEADER DOOR TRIM. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. SEE SPECIFICATIONS.
- PROVIDE VAPOR RETARDER (NON-PERFORATED) TRANSITION TAPE TO LAP OVER VERTICAL LEG OF PREFINISHED PEMB METAL PANEL CLOSURE TRIM
- BACKER ROD AND SEALANT. SEE SPECIFICATIONS.
- PREFINISHED PEMB METAL HEAD FLASHING WITH 1" DRIP. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. SEE SPECIFICATIONS.
- PREFINISHED METAL PEMB WALL PANEL. BASIS OF DESIGN IS NUCOR, TO MATCH EXISTING. SEE SPECIFICATIONS.
- OVERHEAD COILING DOOR HOUSING. BASIS OF DESIGN IS COOKSON, TO MATCH EXISTING.
- 3-HOUR FIRE-RATED OVERHEAD COILING DOOR (OHCD). BASIS OF DESIGN IS COOKSON, TO MATCH EXISTING. SEE SPECIFICATIONS.
- 3-HOUR FIRE-RATED OVERHEAD COILING DOOR GUIDE. BASIS OF DESIGN IS COOKSON, TO MATCH EXISTING. SEE SPECIFICATIONS.
- COORDINATE HEAD HEIGHT OF OVERHEAD COILING DOOR WITH EXISTING METAL BUILDING FRAME.
- 3-HOUR FIRE-RATED REINFORCED CMU LINTEL, CONTINUOUS. PAINTED. SEE STRUCTURAL DOCUMENTS.
- 3-HOUR FIRE-RATED REINFORCED CMU WALL, CONTINUOUS. PAINTED. SEE STRUCTURAL DOCUMENTS.
- NEW STRUCTURAL STEEL CHANNEL AND ASSOCIATED ANGLES, TO SUPPORT ENDS OF EXISTING WALL GIRTS THAT ARE CUT TO CREATE NEW OPENING FOR OVERHEAD COILING DOOR SYSTEM, AND TO CAPTURE THE EXPOSED ENDS OF THE EXISTING METAL LINER PANELS THAT ARE TO REMAIN. SEE STRUCTURAL DOCUMENTS. PROVIDE ALL REQUIRED SHORING PRIOR TO CUTTING GIRTS. PAINT ALL EXPOSED SURFACES OF NEW CHANNEL. SEE DETAIL 1/A-312.
- 5/8" TYPE 'X' MOISTURE-RESISTANT GYPSUM BOARD ON RESTROOM SIDE, PAINTED, TYPICAL. SEE FINISH SCHEDULE SHEET I-601.



INDEX NO.
A-601

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT DATE _____ SIGNATURE _____ APPROVED _____ CENM _____ DRAWN BY: JEF PROJ. ENGR_PDM		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
CONTENTS DOOR SCHEDULE, DOOR TYPES AND DETAILS				
APPROVED 96 CEG/CEN		DATE 14 JUNE 2024		
APPROVED BASE CIVIL ENGINEER		SCALE AS SHOWN		
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO. XX	SHEET 23 OF 50

TOILET ACCESSORY SCHEDULE						
MARK	ITEM / DESCRIPTION	MOUNTING HEIGHT	REMARKS	QUANTITY	BASIS OF DESIGN	G.F.C.I.
A	GRAB BAR (42" LONG)	36" A.F.F. TO CENTERLINE	BLOCKING PER MANUFACTURER INSTRUCTIONS	1	BOBRICK B-5806-42	
B	GRAB BAR (36" LONG)	36" A.F.F. TO CENTERLINE	BLOCKING PER MANUFACTURER INSTRUCTIONS	1	BOBRICK B-5806-36	
C	JUMBO DOUBLE ROLL TOILET TISSUE DISPENSER	19" A.F.F. TO CENTERLINE	INSTALL 7"-9" IN FRONT OF TOILET BOWL	1		JRT #3253
D	SANITARY NAPKIN DISPOSAL	29" A.F.F. TO TOP		---	BOBRICK B-254	
E	WALL MOUNTED FOAMING SOAP DISPENSER	48" A.F.F. TO CENTERLINE	GF/CI ITEM - GOVERNMENT FURNISHED / CONTRACTOR INSTALLED	1		GOJO #5155-06
F	MIRROR - 36" H x 24" W	40" A.F.F. MAX	40" A.F.F. MAX TO VIEWING SURFACE- FULL HEIGHT ABOVE COUNTER SPLASH- SEE ELEV.	1	BOBRICK B-165	
G	ROLL TOWEL DISPENSER	48" A.F.F. TO CENTERLINE	GF/CI ITEM - GOVERNMENT FURNISHED / CONTRACTOR INSTALLED	1		VONDREHLE #3467
H	TOWEL / WARDROBE HOOKS	48" A.F.F. TO CENTERLINE		1	BOBRICK B-76717	
I	HANDICAP WATER CLOSET		SEE PLUMBING DOCUMENTS	1		
J	LAVATORY		SEE PLUMBING DOCUMENTS	---		
K	FREESTANDING WASTE RECEPTACLE		SEE FINISH SCHEDULE AND SPECIFICATIONS	1		
L	HANDICAP DRINKING FOUNTAIN W/ BOTTLE FILLER	36" A.F.F. MAX TO SPOUT	SEE PLUMBING DOCUMENTS	1		
GENERAL NOTES						
1. PROVIDE BLOCKING IN WALLS FOR ALL WALL MOUNTED ACCESSORIES AND PARTITIONS. 2. COORDINATE REQUIRED MIRROR VIEWING SURFACE HEIGHT ABOVE FINISHED FLOOR (40" MAX) WITH PLUMBING FIXTURES. 3. CONTRACTOR TO VERIFY FIXTURE AND ACCESSORY QUANTITIES.						



TYPICAL ADA MOUNTING HEIGHTS

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

PROJECT NORTH

1 I-601

ENLARGED PLAN

SCALE: 1/4" = 1'-0" TOILET 103

KEYNOTES:

- 1 NEW PRE-ENGINEERED STEEL COLUMN. SEE STRUCTURAL DOCUMENTS.
- 2 EXISTING WALL CONSTRUCTION TO REMAIN. PROTECT FROM DAMAGE DURING EXTENT OF WORK.
- 3 WALL TYPE W5. SEE SHEET A-311.
- 4 WALL TYPE W2. SEE SHEET A-310.
- 5 WALL TYPE W3. SEE SHEET A-311.
- 6 EXISTING PRE-ENGINEERED STEEL COLUMN. PROTECT FROM DAMAGE DURING EXTENT OF WORK. TYPICAL.
- 7 NEW 8" REINFORCED 3-HOUR FIRE-RATED CMU WALL CONSTRUCTION. SEE STRUCTURAL DOCUMENTS.
- 8 NEW HIGH-LOW ADA-COMPLIANT DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE PLUMBING DOCUMENTS. MATCH EXISTING.
- 9 PLUMBING CHASE. COORDINATE WITH PLUMBING DOCUMENTS.
- 10 VOID TO ACCOMMODATE RIGID FRAME. COORDINATE WITH STRUCTURAL DOCUMENTS.

ROOM FINISH SCHEDULE															
ROOM NUMBER	ROOM NAME	FLOOR		BASE	WALLS								CEILING		REMARKS
		MATERIAL	FINISH		NORTH	EAST	SOUTH	WEST	MATERIAL/FINISH	HEIGHT					
101	EXISTING OPEN PREP	ETR	ETR	----	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	ETR	1
102	OPEN PREP EXPANSION	CONC	SC-1	---- / RB-1	MLP / BI	ME	PCMU	ME	MLP / BI	ME	MLP / BI	ME	EXP-1	VARIABLES	2, 3, 4, 5
103	RESTROOM	CONC	SC-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	MRGWB / P-3	EXP-1	9'-0"	3	
104	MECHANICAL	CONC	SC-1	----	MLP / BI	ME	MLP / BI	ME	MLP / BI	ME	MLP / BI	ME	EXP-1	VARIABLES	2, 4

FINISH LEGEND:

ETR	EXISTING TO REMAIN. PROTECT FROM DAMAGE DURING EXTENT OF WORK. TYPICAL.
EXP	EXPOSED STRUCTURE
GWB	GYPSUM WALLBOARD
ME	MATCH EXISTING
MLP / BI	PREFINISHED METAL LINER PANEL WITH FACED BATT INSULATION ABOVE
MRGWB	MOISTURE RESISTANT GYPSUM WALLBOARD
P	PAINT
PCMU	CONCRETE MASONRY UNITS, PAINT
RB	RUBBER BASE
SC	SEALED CONCRETE

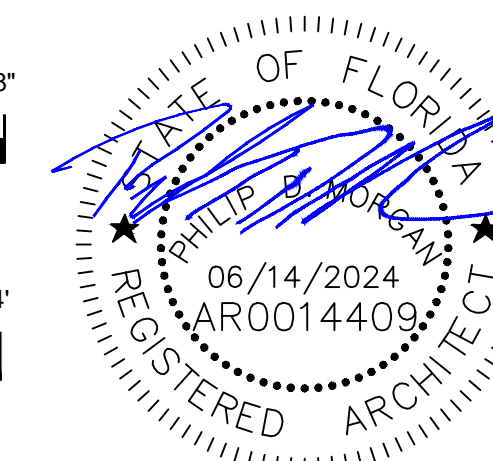
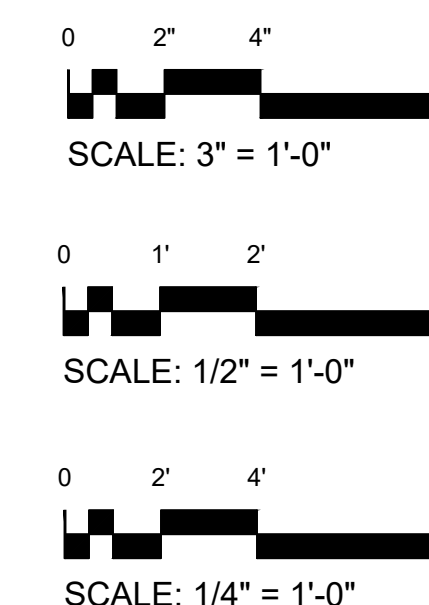
FINISH REMARKS:

- REPAIR ANY AND ALL EXISTING FINISHES DAMAGED AS A RESULT OF REQUIRED DEMOLITION TO ACCOMMODATE THE NEW WORK, TO MATCH EXISTING. TYPICAL.

GENERAL NOTES:

- REFER TO ROOM FINISH SCHEDULE FOR CEILING HEIGHTS.
- PROVIDE WALL BASE AND PAINT AT ALL EXPOSED NEW GYPSUM BOARD WALLS.
- ALL DOORS AND FRAMES SHALL BE PAINTED P-2.
- NEW INTERIOR LINER PANELS SHALL BE BASED ON NUCOR COLOR REGAL WHITE.
- 3-HOUR FIRE-RATED OVERHEAD COILING DOOR COLOR SHALL BE BASED ON TAN GALVANEX FINISH BY COOKSON OVERHEAD DOOR COMPANY.

FINISH LEGEND		
CODE	DESCRIPTION AND SIZE	REMARKS
FLOOR		
RB-1	MANU: JOHNSONITE, TYPE: THERMOPLASTIC RUBBER, COLOR: 121 CEMENT, SIZE: 4" HIGH, STYLE: COVED	
SC-1	SEALED, CLEAR	
WALL		
P-1	MANU: SHERWIN WILLIAMS, COLOR: REGAL WHITE	WALL PAINT
MLP-1	COLOR: BASIS OF DESIGN: NUCOR REGAL WHITE	
CEILING		
ACT-1		
P-3	MANU: SHERWIN WILLIAMS, COLOR: SW7005 PURE WHITE	CEILING PAINT
P-2	MANU: SHERWIN WILLIAMS, COLOR: SW7030 ANEW GRAY	TRIM PAINT (STEEL DOORS AND FRAMES)
SIGNAGE		
	MANU: TAKEFORM OR EQUIVALENT, STYLE: FUSION 01, FACE: WILSONART, 4944-38 CASUAL LINEN; ACCENT BAR: BRUSHED ALUMINUM; PERMANENT COPY COLOR: ESPRESSO	
EXPOSED STRUCTURE		
EXP-1	MANU: SHERWIN WILLIAMS, COLOR: SW7005 PURE WHITE	
NOTE: MANUFACTURER'S LISTED ARE INTENDED ONLY FOR BASIS OF DESIGN. NAMED PRODUCTS ARE ACCEPTABLE FOR USE ONLY WHEN THEY CONFORM TO SPECIFIC REQUIREMENTS. PRODUCTS OF OTHER MANUFACTURERS ARE ACCEPTABLE IF THE COLORS APPROXIMATE COLORS INDICATED AND THE PRODUCT CONFORMS TO SPECIFIC REQUIREMENTS.		



INDEX NO.
I-601

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE		14 JUNE 2024		
SIGNATURE				
APPROVED				
CENM				
DRAWN BY: JEF				
PROJ. ENGR_PDM				
CONTENTS				
ROOM FINISH SCHEDULE				
APPROVED		DATE		
96 CEG/CEN		14 JUNE 2024		
APPROVED		SCALE		
BASE CIVIL ENGINEER		AS SHOWN		
SPEC. NO. 24AC	PROJ. NO. FTFA 23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 24 OF 50

CODE COMPLIANCE SUMMARY

CODES & REFERENCES

- UNIFIED FACILITIES CRITERIA (UFC) 1-200-01 DOD BUILDING CODE (GENERAL BUILDING REQUIREMENTS), 01 SEPTEMBER 2022, CHANGE 2, (12 JUNE 2023)
- UNIFIED FACILITIES CRITERIA (UFC) 3-600-01, DESIGN: FIRE PROTECTION ENGINEERING FOR FACILITIES, 8 AUGUST 2016, CHANGE 6 (06 MAY 2021)
- INTERNATIONAL BUILDING CODE-> (IBC), 2021
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 1, FIRE CODE, 2021
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 24, STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, 2022
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, NATIONAL ELECTRICAL CODE->, 2020
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72, NATIONAL FIRE ALARM AND SIGNALING CODE->, 2022
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, 2021
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101, LIFE SAFETY CODE->, 2024, FOR SEPARATION FROM HAZARDS, BUILDING EGRESS AND LIFE SAFETY AND APPLICABLE CRITERIA IN UFC 3-600-01

BUILDING CODE ANALYSIS SUMMARY

- A. CONSTRUCTION TYPE - (IBC TABLE 601): TYPE IIB
- B. IBC OCCUPANCY TYPE: STORAGE, S-1(IBC SECTION 311)
- C. MIXED USE AND OCCUPANCY (IBC 508): NOT APPLICABLE.
- D. ALLOWABLE HEIGHT - (IBC TABLES 504.3 AND 504.4, NON-SPRINKLERED):
ALLOWABLE: 55 FEET (2 STORIES)
PROVIDED: 25 FEET (1 STORY)
- E. ALLOWABLE FLOOR AREA - (IBC TABLE 506.2, NON-SPRINKLERED):
ALLOWABLE AREA: 17,500 SF (NOT INCLUDING FRONTAGE INCREASE)
PROVIDED AREA: 4,025 SF
NOTE: THE NEW ADDITION SHALL BE CONSIDERED A SEPARATE BUILDING SINCE IT WILL BE SEPARATED BY A FIRE WALL PER IBC SECTION 706.
- F. FIRE RESISTANCE REQUIREMENTS (IBC TABLES 601)
PRIMARY STRUCTURAL FRAME:
REQUIRED: 0 HOURS
PROVIDED: NONE
BEARING WALLS - EXTERIOR:
REQUIRED: 0 HOURS (IBC 705.5 FIRE SEPARATION DISTANCE >30 FT)
PROVIDED: NONE
BEARING WALLS - INTERIOR:
REQUIRED: 0 HOURS
PROVIDED: NONE
NONBEARING WALLS AND PARTITIONS- EXTERIOR
REQUIRED: 0 HOURS (IBC 705.5 FIRE SEPARATION DISTANCE >30 FT)
PROVIDED: NONE
NONBEARING WALLS AND PARTITIONS- INTERIOR
REQUIRED: 0 HOURS
PROVIDED: NONE
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY STRUCTURAL MEMBERS:
REQUIRED: 0 HOURS
PROVIDED: NONE
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY STRUCTURAL MEMBERS:
REQUIRED: 0 HOURS
PROVIDED: NONE

G. FIRE WALLS (IBC 706)

A FIRE WALL SHALL BE INSTALLED BETWEEN THE EXISTING BUILDING AND THE NEW ADDITION. THE FIRE WALL SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA 221. THE PURPOSE OF THE FIRE WALL IS TO PERMIT THE NEW ADDITION TO BE CONSIDERED A SEPARATE BUILDING. THIS FIRE WALL WILL ALLOW THE NEW ADDITION TO NOT REQUIRE AN AUTOMATIC SPRINKLER SYSTEM. SEE AUTOMATIC SPRINKLER SYSTEMS AND CFPE APPROVALS/EQUIVALENCY SECTIONS OF THIS ANALYSIS.

- FIRE WALL FIRE-RESISTANCE RATINGS (IBC TABLE 706.4):
REQUIRED: 3 HOURS
PROVIDED: 3 HOURS
- FIRE WALL MINIMUM FIRE DOOR/FIRE SHUTTER RATINGS (IBC 706.8/TABLE 716.1(2)):
REQUIRED: 3 HOURS
PROVIDED: >3 HOURS (8" THICK CMU SOLID GROUTED)
NOTE: TWO DOORS, EACH WITH A FIRE PROTECTION RATING OF 1-1/2 HOURS, INSTALLED ON OPPOSITE SIDES OF THE SAME OPENING IN A FIRE WALL, SHALL BE DEEMED EQUIVALENT IN FIRE PROTECTION RATING TO ONE 3-HOUR FIRE DOOR.
- FIRE WALL HORIZONTAL CONTINUITY (IBC 706.5):
REQUIRED: 18 INCHES BEYOND THE EXTERIOR SURFACE OF EXTERIOR WALLS
PROVIDED: 18 INCHES

- FIRE WALL VERTICAL CONTINUITY (IBC 706.6):
REQUIRED: FROM FOUNDATION TO NOT LESS THAN 30 INCHES ABOVE BOTH ADJACENT ROOFS
PROVIDED: FROM FOUNDATION TO NOT LESS THAN 30 INCHES ABOVE BOTH ADJACENT ROOFS
- FIRE WALL OPENINGS (IBC 706.8):
REQUIRED: 156SQFT AND OPENING WIDTH NOT EXCEED 25% WALL LENGTH
PROVIDED: 100SQFT (10FTX10FT OHCD) AND 20% WALL LENGTH (10FT DOOR/50FT WALL)
- FIRE WALL DOOR AUTOMATIC CLOSING (IBC 716.2.6.4/NFPA 80 11.4.1.2)
REQUIRED: DETECTION OR FUSIBLE LINK
PROVIDED: DETECTION AND FUSIBLE LINK
NOTE: IBC 716.2.6.4 REQUIRES DOORS IN FIRE WALLS TO BE AUTOMATIC CLOSING IN ACCORDANCE WITH NFPA 80. NFPA 80 11.4.1.2 STATES THAT AUTOMATIC CLOSING FOR ROLLING STEEL DOORS CAN BE ACCOMPLISHED WITH DETECTION OR FUSIBLE LINK.

- FIRE WALL PENETRATIONS, JOINTS, AND DUCTS AND AIR TRANSFER OPENINGS:
PENETRATIONS OF FIRE WALLS SHALL COMPLY WITH IBC SECTION 714. JOINTS MADE IN OR BETWEEN FIRE WALLS SHALL COMPLY WITH SECTION 715.
DUCTS AND AIR TRANSFER OPENINGS. DUCTS AND AIR TRANSFER OPENINGS SHALL NOT PENETRATE FIRE WALLS.

LIFE SAFETY CODE ANALYSIS SUMMARY

- a. CLASSIFICATION OF REHABILITATION WORK (NFPA 101 CHAPTER 43): ADDITION - THE ADDITION SHALL COMPLY WITH THE REQUIREMENTS APPLICABLE TO NEW CONSTRUCTION FOR THE OCCUPANCY.
- THE EXISTING PORTION OF THE BUILDING SHALL COMPLY WITH THE REQUIREMENTS APPLICABLE TO EXISTING BUILDINGS FOR THE OCCUPANCY.
- b. NFPA 101 OCCUPANCY CLASSIFICATION: STORAGE (NFPA 101 CHAPTER 42)
- c. MULTIPLE OCCUPANCY TYPE: NOT APPLICABLE
- d. HAZARD OF CONTENTS CLASSIFICATION (NFPA 101 6.2.2): ORDINARY HAZARD CONTENTS
- e. CONSTRUCTION TYPE: TYPE II (000)
- f. OCCUPANT LOAD: SEE LIFE SAFETY PLANS
- g. MEANS OF EGRESS REQUIREMENTS (NFPA 101 42.2)
• NUMBER OF MEANS OF EGRESS (NFPA 101 42.2.4/7.4):
BUILDING EXITS REQUIRED: 1 EXITS
BUILDING EXITS PROVIDED: 2 EXITS IN NEW ADDITION
- COMMON PATH OF TRAVEL (NFPA 101 TABLE 42.2.5)
REQUIRED: 100 FT
PROVIDED: LESS THAN 100FT
- DEAD-END CORRIDORS (NFPA 101 TABLE 42.2.5.)
REQUIRED: 100 FT
PROVIDED: LESS THAN 100FT
- TRAVEL DISTANCE TO EXITS (NFPA 101 TABLE 42.2.6)
REQUIRED: 400 FT
PROVIDED: LESS THAN 100FT
- ILLUMINATION OF MEANS OF EGRESS: MEANS OF EGRESS SHALL COMPLY WITH NFPA 101 42.2.8/7.8. SEE ELECTRICAL DESIGN DRAWINGS.
- EMERGENCY LIGHTING: ALL MEANS OF EGRESS, INCLUDING EXIT ACCESS CORRIDORS AND EXIT DISCHARGE, WILL BE PROVIDED WITH EMERGENCY LIGHTING VIA BATTERY BACKUP. EMERGENCY LIGHTING WILL ALSO BE PROVIDED IN THE MECHANICAL ROOMS VIA BATTERY BACKUP. EMERGENCY LIGHTING WILL BE PROVIDED FOR A MINIMUM OF 1 1/2 HOURS IN THE EVENT OF INTERNAL POWER FAILURE. EMERGENCY LIGHTING SHALL BE IN ACCORDANCE WITH NFPA 101 7.9.
- MARKING OF MEANS OF EGRESS: EXIT SIGNS SHALL BE LED TYPE WITH BATTERY BACKUP AND SHALL BE PROVIDED AT ALL NEW EXITS. EXIT SIGNS SHALL ALSO BE PROVIDED WHEREVER THE LOCATION OF THE EXIT IS NOT READILY APPARENT. EXIT SIGN ILLUMINATION SHALL BE PROVIDED FOR A MINIMUM OF 1 1/2 HOURS IN THE EVENT OF INTERNAL POWER FAILURE. ALL MARKING OF EXITS WILL BE IN ACCORDANCE WITH NFPA 101 7.10. EXIT SIGNS SHALL BE PROVIDED WITH RED LETTERING.
- h. PROTECTION (NFPA 101 42.3):
• PROTECTION OF VERTICAL OPENINGS: NOT APPLICABLE IN NEW ADDITION (SINGLE STORY).
- PROTECTION FROM HAZARDS (NFPA 101 42.3.2): NOT APPLICABLE. ALL AREAS HAVE SAME DEGREE OF HAZARD.
- INTERIOR FINISH (NFPA 101 42.3.3):
INTERIOR FINISH SHALL COMPLY WITH NFPA 101 AS FOLLOWS:
ROOMS AND ENCLOSED SPACES: CLASS A, B, OR C
FLOOR FINISH: NOT REQUIRED TO COMPLY WITH 10.2.7.
NOTE: THERE IS NO EXIT ENCLOSURES OR EXIT ACCESS CORRIDORS.
- a. FIRE AND/OR SMOKE DAMPERS (NFPA 101): NOT APPLICABLE. NO HVAC PENETRATIONS IN THE FIRE WALL.

WATER SUPPLY (UFC 3-600-01)

- a. FIRE SPRINKLER WATER SUPPLY/FIRE WATER DEMAND: THE NEW ADDITION WILL NOT BE PROVIDED WITH A FIRE SPRINKLER SYSTEM. THE EXISTING AUTOMATIC FIRE SPRINKLER DEMAND IN THE EXISTING BUILDING IS 1,001GPM @ 39.32PSI AT THE BASE OF THE RISER WITH A CALCULATED SAFETY FACTOR OF 11.69PSI. THE 1,001GPM INCLUDES 500GPM HOSE STREAM. THE EXISTING SPRINKLER SYSTEM IS NOT BEING MODIFIED AS PART OF THIS PROJECT. THE SERVICE LATERAL SERVING THE SPRINKLER SYSTEM WILL BE MODIFIED SUCH THAT IS NOT ROUTED UNDERNEATH THE NEW ADDITION. THE EXISTING 6" SERVICE LATERAL IS APPROXIMATELY 220 FT IN LENGTH FROM THE PIV. THE NEW SERVICE LATERAL IS APPROXIMATELY 375FT IN LENGTH FROM THE PIV. THIS RESULTS IN 155FT IN LENGTH ADDED. THE PRESSURE LOSS IN A 155FT OF 6" PIPE FLOW 501GPM IS LESS THAN 2 PSI. EVEN WITH THE ADDED PRESSURE LOSS THE SYSTEM IS PROVIDED WITH A SAFETY FACTOR. NOTE, THIS IS BASED ON DATA FROM THE SHOP DRAWINGS OF THE EXISTING SPRINKLER SYSTEM
- b. FIRE FLOW: THE CALCULATED FIRE FLOW PER NFPA 1 AND UFC 3-600-01 IS 1500GPM AT 20PSI FOR 2 HOURS.
- c. FIRE HYDRANT LOCATIONS: THERE ARE TWO EXISTING FIRE HYDRANTS LOCATED NEAR THE BUILDING. ALL PARTS OF THE FACILITY EXTERIOR ARE LOCATED WITHIN 350FT OF A HYDRANT. A SECOND HYDRANT IS LOCATED WITHIN 1,000 FEET OF THE FACILITY FOR USE FOR FIRE FLOW. A FIRE HYDRANT IS WITHIN 150FT OF THE EXISTING FDC. THE FIRE HYDRANTS ARE EXISTING TO REMAIN AND ARE NOT BE MODIFIED AS PART OF THIS PROJECT.

AUTOMATIC SPRINKLER SYSTEMS

THE NEW ADDITION WILL BE LESS THAN 5,000 SF AND WILL BE TREATED AS A SEPARATED BUILDING SINCE A FIRE WALL IS BEING PROVIDED BETWEEN THE EXISTING BUILDING AND NEW ADDITION. THE CFPE HAS APPROVED OMISSION OF A SPRINKLER SYSTEM IN THE NEW ADDITION.

IT WAS FOUND DURING THIS DESIGN THAT THE EXISTING SPRINKLER SYSTEM IS NOT ADEQUATE FOR THE COMMODITY STORED. THE EXISTING SPRINKLER SYSTEM IS NOT BEING UPGRADED AS PART OF THIS PROJECT.

STANDPIPE

NOT APPLICABLE. THE BUILDING IS SINGLE STORY.

PORTABLE FIRE EXTINGUISHERS

IN ACCORDANCE WITH UFC 3-600-01 SECTION 9-17.1, GENERAL PURPOSE PORTABLE FIRE EXTINGUISHERS MUST BE PROVIDED WHERE REQUIRED BY NFPA 101. NFPA 101 DOES NOT REQUIRE FIRE EXTINGUISHERS FOR STORAGE OCCUPANCIES. PORTABLE FIRE EXTINGUISHERS ARE NOT BEING PROVIDED FOR THIS PROJECT.

FIRE DETECTION

PHOTOELECTRIC DUCT SMOKE DETECTORS SHALL BE PROVIDED IN THE SUPPLY SIDE OF AIR HANDLING UNITS GREATER THAN 2,000 CFM. DUCT SMOKE DETECTORS SHALL AUTOMATICALLY DE-ENERGIZE THEIR RESPECTIVE FANS UPON DETECTING THE PRESENCE OF SMOKE AND SHALL ACTIVATE AN ALARM CONDITION AT THE FACU. OTHER DETECTION IN THE FACILITY IS EXISTING TO REMAIN.

PHOTOELECTRIC SMOKE DETECTORS SHALL BE PROVIDED ON BOTH SIDES OF RATED DOOR ASSEMBLIES. UPON SMOKE ACTIVATION OR ANY ALARM, AN ADDRESSABLE OUTPUT MODULE SHALL RELEASE THE DOOR TO CLOSE AUTOMATICALLY.

FIRE ALARM SYSTEM

THE EXISTING SYSTEM IS FIRE ALARM ONLY AND THE EXISTING FACU IS A NFS 320. THE NEW NOTIFICATIONS APPLIANCES SHALL BE ADDED TO PROVIDE NOTIFICATION THROUGHOUT THE NEW ADDITION. EXISTING NACS SHALL BE EXTENDED AS REQUIRED TO SUPPORT THE NEW NOTIFICATION APPLIANCES. NEW PULL STATIONS SHALL BE ADDED AT THE NEW ADDITION EXITS AND A DUCT SMOKE DETECTOR SHALL BE ADDED TO THE NEW AHU OVER 2,000CFM. FIRE DOOR AUTOMATIC CLOSING CONTROLS SHALL BE ADDED TO THE FIRE ALARM SYSTEM. THE EXISTING SLC SHALL BE EXTENDED TO MONITOR THE NEW INITIATING DEVICES. THE MODIFIED SYSTEM AND ALL WORK SHALL BE IN COMPLIANCE WITH UFC 3-600-01 AND NFPA 72. CONTRACTOR SHALL BE REQUIRED TO SUBMIT FIRE ALARM SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL BY THE GOVERNMENT PRIOR TO CONSTRUCTION OF FIRE SPRINKLER SYSTEM. THE FIRE ALARM SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE CONTRACTOR'S QUALIFIED FIRE PROTECTION ENGINEER (QFPE).

THE EXISTING TRANSCEIVER ANTENNA WILL BE RELOCATED TO THE END OF THE NEW BUILDING EDITION AS SHOWN ON THE FIRE ALARM PLANS. THE EXISTING TRANSCEIVER ZONES SHALL REMAIN AND BE REUSED.

SMOKE MANAGEMENT AND CONTROL METHODS.

NOT APPLICABLE. NO SMOKE CONTROL SYSTEMS ARE USED IN THIS DESIGN.

SECURITY AND ANTITERRORISM REQUIREMENTS

A MASS NOTIFICATION SYSTEM IS REQUIRED FOR FACILITIES ROUTINELY OCCUPIED BY 11 OR MORE DOD PERSONNEL AND IS RECOMMENDED IN OTHER FACILITIES. THIS FACILITY WILL NOT BE PROVIDED WITH AN MASS NOTIFICATION SYSTEM.

FIRE DEPARTMENT ACCESS.

THE EXISTING FIRE DEPARTMENT ACCESS IS NOT BEING MODIFIED AS PART OF THIS SCOPE OF WORK. THE FIRE DEPARTMENT ACCESS SHALL REMAIN AND BE REUSED.

CFPE APPROVALS AND APPROVED EQUIVALENCIES

THE CFPE HAS APPROVED THE OMISSION OF AUTOMATIC SPRINKLER PROTECTION IN THE NEW ADDITION. THE NEW ADDITION WILL BE LESS THAN 5,000SF AND WILL BE SEPARATED FROM THE EXISTING BUILDING BY A FIRE WALL PER IBC 706.

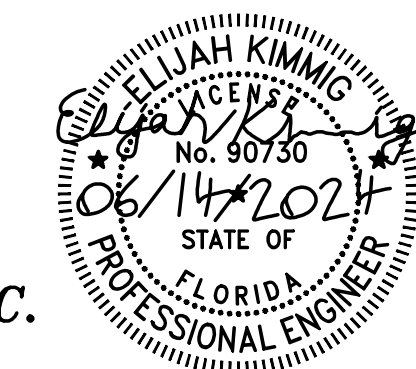
HOST NATION CRITERIA

NOT APPLICABLE.

PERFORMANCE VERIFICATION AND TESTING PLAN

PERFORMANCE AND VERIFICATION OF THE FIRE ALARM AND LIFE SAFETY FEATURES SHALL BE VERIFIED BY TESTING PER THE CONTRACT SPECIFICATIONS.

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE	EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670			
APPROVED				
CENM				
DRAWN BY	DAK			
PROJ. ENGR.	EK			
		CONTENTS		
		CODE COMPLIANCE SUMMARY		
APPROVED		DATE		
96 CEG/CEN		14 JUNE 2024		
APPROVED		SCALE		
BASE CIVIL ENGINEER		AS SHOWN		
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	SHEET
24AC	FTFA23VH48	24AC		25 OF 50

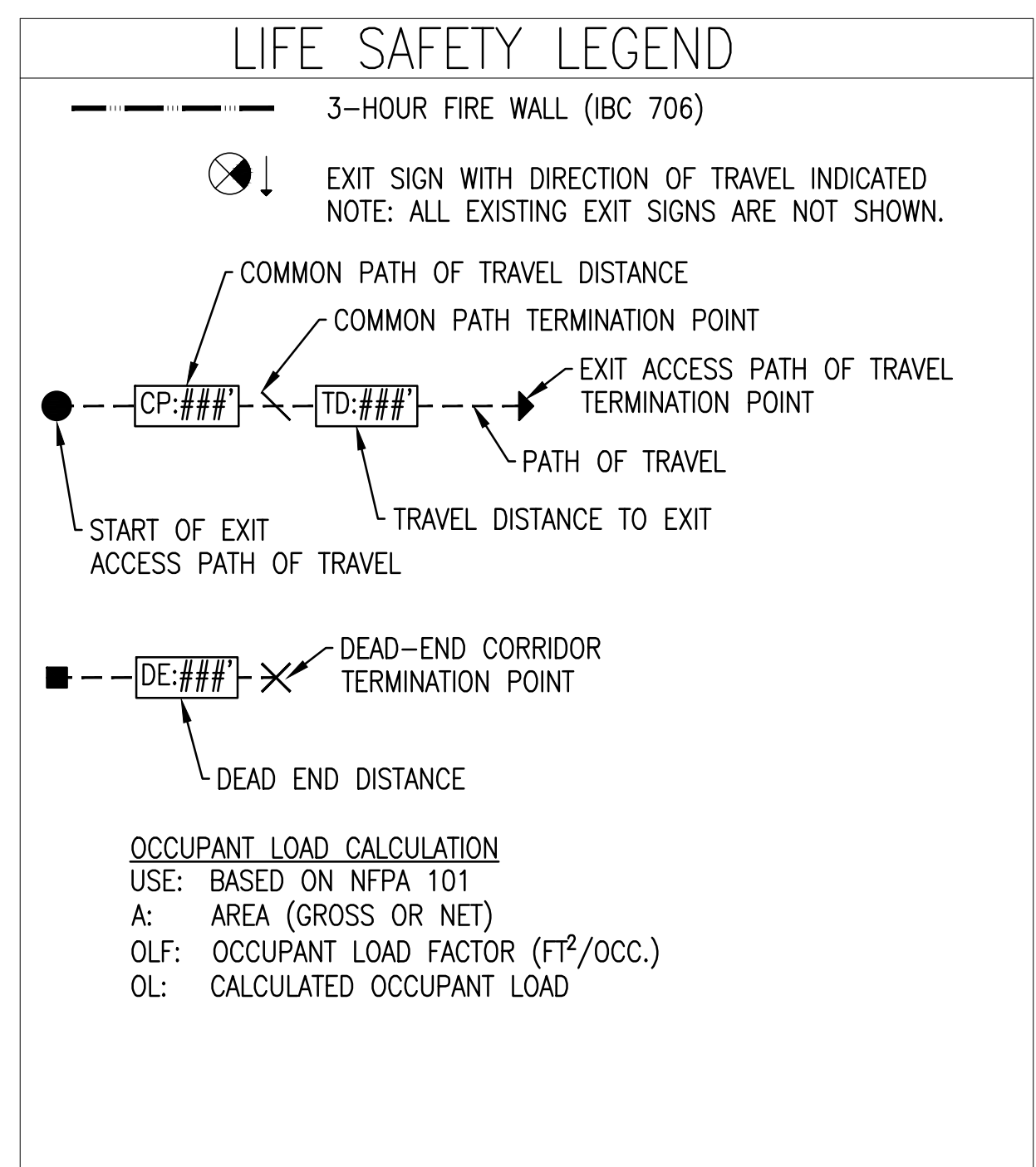
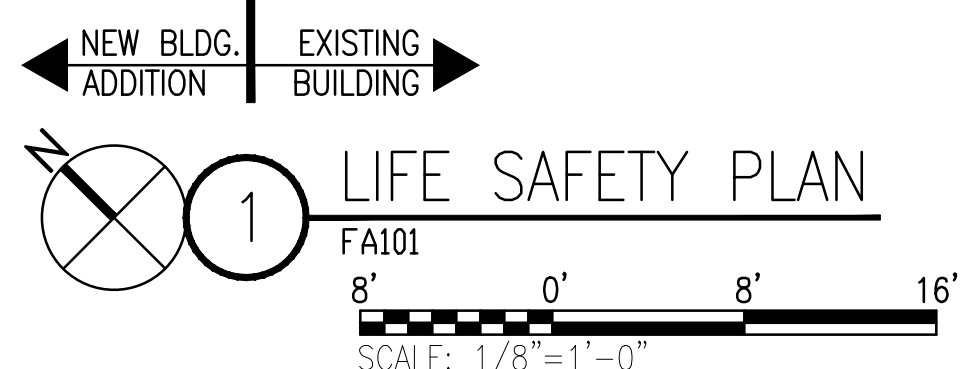
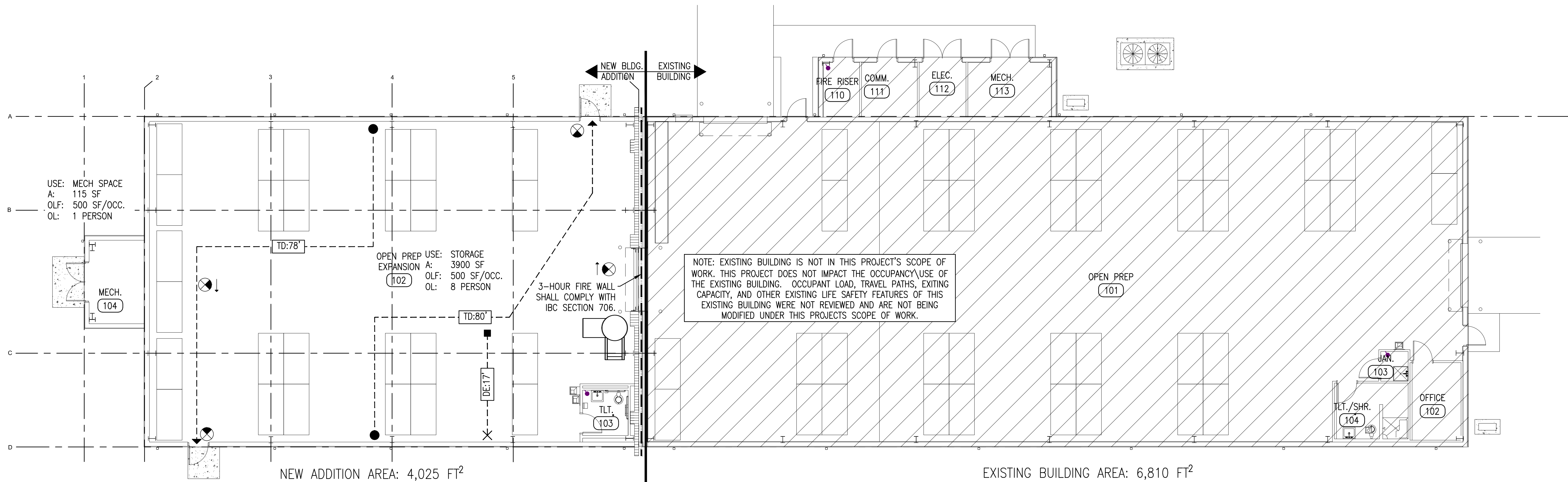


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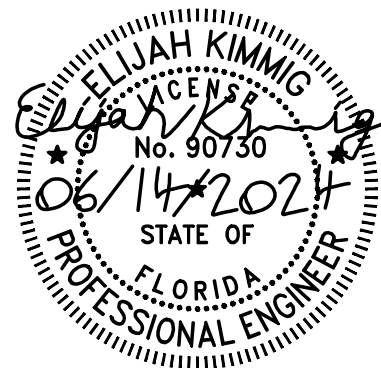
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INDEX NO.
F-001

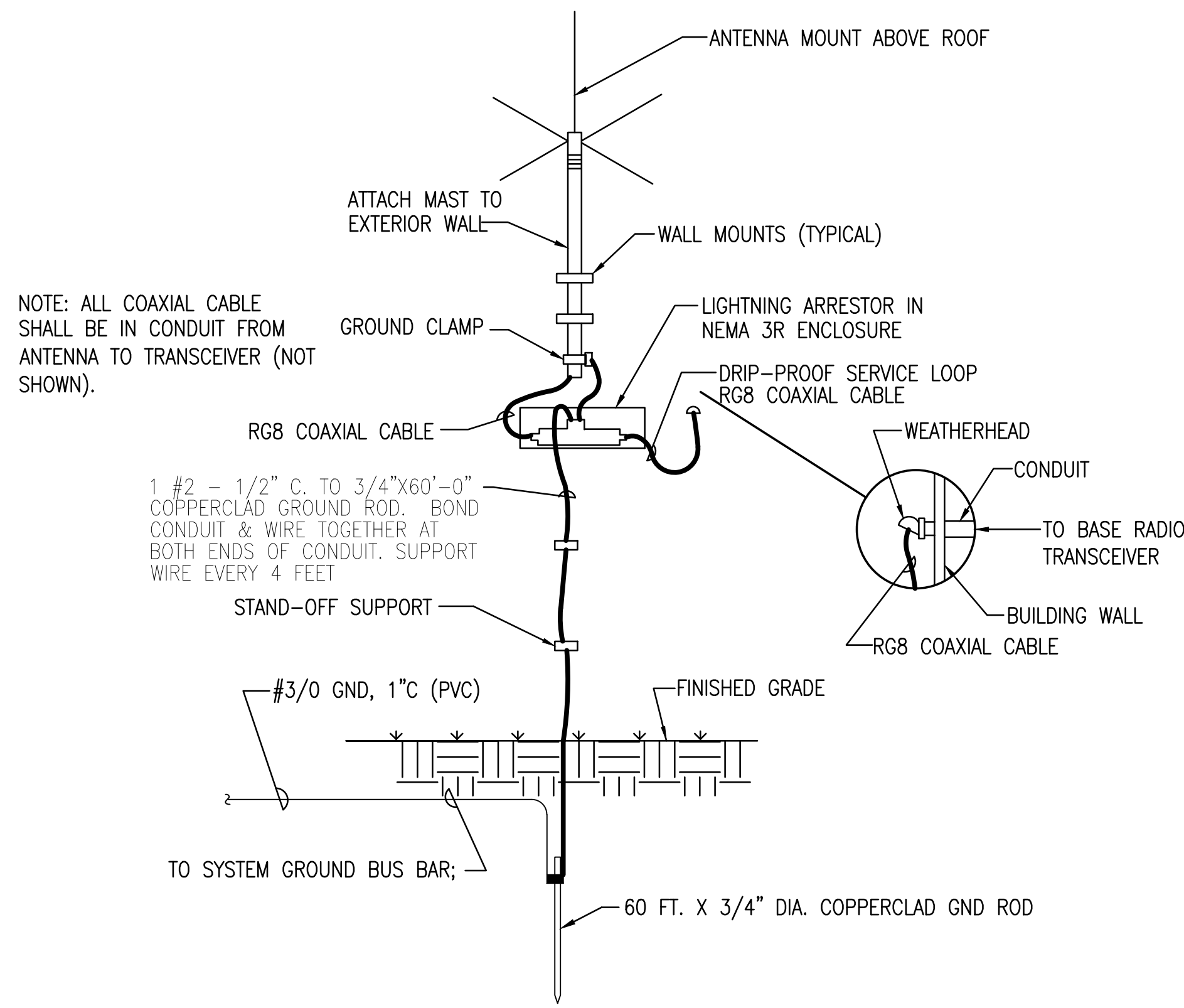
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SIGNATURE	96 CEG/CEN			
APPROVED	APPROVED			
CENM	BASE CIVIL ENGINEER			
DRAWN BY	DAK			
PROJ. ENGR.	EK			
INDEX NO.		F-101		
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	SHEET
24AC	FTFA23VH48	24AC		26 OF 50



**TYPICAL ANTENNA
INSTALLATION DETAIL**
NOT TO SCALE

FIRE ALARM LEGEND

- EXISTING/DEMO**
- [FAU] FIRE ALARM/MNS CONTROL UNIT-EXISTING TO REMAIN
 - [FAA] FIRE ALARM ANNUCIATOR-EXISTING TO REMAIN
 - [S] PHOTOELECTRIC SMOKE DETECTOR-EXISTING TO REMAIN
 - [F] MANUAL PULL STATION-EXISTING TO REMAIN
 - [AIM] ADDRESSABLE INPUT MONITOR MODULE-EXISTING TO REMAIN
 - [WF] WATERFLOW SWITCH-EXISTING TO REMAIN
 - [VS] VALVE TAMPER SWITCH-EXISTING TO REMAIN
 - [S] SMOKE DETECTOR/SENSOR FOR DUCT-EXISTING TO REMAIN
 - [S] COMBINATION HORN/STROBE-EXISTING TO REMAIN
 - [S] AUDIBLE ONLY (HORN)-EXISTING TO REMAIN
 - [S] VISIBLE ONLY (STROBE) - WALL MOUNT-EXISTING TO REMAIN
 - [S] VISIBLE ONLY (STROBE) - CEILING MOUNT-EXISTING TO REMAIN
 - [X] REPORTING SYSTEM ANTENNA-REMOVE
- NEW WORK**
- [F] MANUAL PULL STATION-NEW
 - [S] SMOKE DETECTOR/SENSOR-NEW
 - [S] SMOKE DETECTOR/SENSOR FOR DUCT-NEW
 - [AOM] ADDRESSABLE OUTPUT MODULE (AHU SHUTDOWN RELAY)-NEW
 - [S] COMBINATION HORN/STROBE-NEW
 - [S] AUDIBLE ONLY (HORN)-NEW
 - [S] VISIBLE ONLY (STROBE) - WALL MOUNT-NEW
 - [X] REPORTING SYSTEM ANTENNA-NEW
- ABBREVIATIONS**
- C CEILING MOUNT SUBSCRIPT
 - WP WEATHERPROOF SUBSCRIPT

FIRE ALARM GENERAL NOTES

- THE FOLLOWING CODES, STANDARDS, AND CRITERIA ARE APPLICABLE TO THIS PROJECT. ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE PORTIONS OF THESE CODES, STANDARDS, AND CRITERIA LISTED BELOW AND LISTED IN THE PROJECT SPECIFICATIONS.
 - UFC 3-600-01, 08 AUGUST 2016, FIRE PROTECTION FOR FACILITIES, WITH CHANGE 6
 - UFC 4-021-01, 9 APRIL 2008, DESIGN AND O&M: MASS NOTIFICATION SYSTEMS, WITH CHANGE 1.
 - USACE ENGINEERING CONSTRUCTION BULLETIN ECB_2018_17_REV_2(3)
 - NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2022 EDITION
 - NFPA 70, NATIONAL ELECTRICAL CODE, 2023 EDITION
 - NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, 2022 EDITION
 - NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS, 2024 EDITION
 - NFPA 101 LIFE SAFETY CODE, 2024
 - 796 CEOFA FIRE ALARM & SUPPRESSION REQUIREMENTS OCTOBER 2023
 - GENERAL FIRE ALARM/MASS NOTIFICATION SUMMARY OF WORK:
 - MODIFY THE EXISTING FIRE ALARM SYSTEM AND ADD NEW NOTIFICATION APPLIANCES AND INITIATION DEVICES AS REQUIRED TO PROVIDE COVERAGE OF THE NEW BUILDING ADDITION. THE NEW EQUIPMENT AND ALL ASSOCIATED WORK SHALL BE IN COMPLIANCE WITH THE CODES, STANDARDS, AND CRITERIA LISTED ABOVE, THE SPECIFICATIONS, AND THE AHJ.
 - THE CONTRACTOR SHALL RETAIN A REGISTERED FIRE PROTECTION ENGINEER (AS DEFINED BY UFC 3-600-01) TO BE THE QUALIFIED FIRE PROTECTION ENGINEER (QFPE) FOR THE CONSTRUCTION PROJECT. THE CONTRACTOR'S QFPE SHALL BE RESPONSIBLE FOR PERFORMING THE SERVICES OUTLINED IN SPECIFICATION 28 31 76.
 - ALL FIRE ALARM AND MNS CONDUCTORS SHALL BE SOLID COPPER AND SHALL BE INSTALLED IN CONDUIT.
 - INSTALL SMOKE DETECTION ABOVE ALL CONTROL PANELS TO INCLUDE NAC EXTENDER PANELS.
- ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM INSTALLER.
 - A SET OF APPROVED FIRE ALARM SHOP DRAWINGS SHALL BE AT THE JOB SITE AND SHALL BE USED FOR INSTALLATION.
 - PER UFC 3-600-01 PARAGRAPH 9-18.11.2, PROVIDE SURGE PROTECTIVE DEVICE (SPD) ON ALL 120V CIRCUITS TO CONTROL PANELS, SUBPANELS, TRANSMITTERS, AMPLIFIER PANELS, AND BOOSTER PANELS. SURGE PROTECTIVE DEVICE MUST HAVE BOTH A UL 1449 AND UL 1283 LISTING AND MUST BE LOCATED IN AN ADJACENT HINGED TERMINAL BOX.
 - THESE DRAWINGS ARE DIAGRAMMATIC AND DEPICT GENERAL LOCATIONS FOR NEW FIRE ALARM/MNS COMPONENTS. EXACT FINAL LOCATIONS OF FIRE ALARM/MNS COMPONENTS AND ROUTING OF CONDUITS SHALL BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR AND SHALL BE SHOWN ON THE FIRE ALARM/MNS SHOP DRAWINGS. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
 - THE CONTRACTOR WILL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT AND WORKMAN LIKE MANNER.
 - TEST THE COMPLETE EXISTING FIRE ALARM SYSTEM PRIOR TO BEGINNING WORK. PROVIDE A TEST REPORT TO THE CONTRACTING OFFICER AND DOCUMENT ANY EXISTING DEFICIENCIES. OWNER SHALL BE RESPONSIBLE FOR REPAIR OF ANY EXISTING DEFICIENCIES.
 - THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND PERSONNEL REQUIRED FOR THE TESTS. ALL TESTING SHALL BE CONDUCTED WITH CALIBRATED TESTING EQUIPMENT WITH CALIBRATION DOCUMENTS ON SITE.
 - CONTRACTOR SHALL SUBMIT ALL TESTING PAPERWORK PRIOR TO REQUESTING BT RADIO PROGRAMMING.
 - PRIOR TO FINAL ACCEPTANCE TESTING CAN BE SCHEDULED, CONTRACTOR SHALL SUBMIT ALL REMAINING PAPERWORK, INCLUDING BUT NOT LIMITED TO: NFPA 72 RECORD OF COMPLETION, RECORD OF INSPECTION AND TESTING FOR FACU AND MNS, AND REDLINED DRAWINGS.

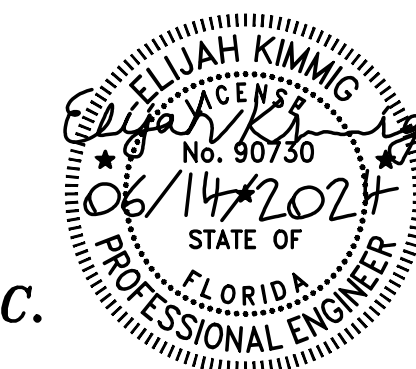
FA SEQUENCE OF OPERATIONS MATRIX

SYSTEM INPUTS	SYSTEM OUTPUTS			
	ANNUNCIATION AT FACU	LOCAL NOTIFICATION	OUTPUT TO RECEIVING STATION	AUXILIARY FUNCTIONS
INITIATE AUDIO-VISUAL ALARM INDICATION				
INITIATE AUDIO-VISUAL SUPERVISORY INDICATION				
INITIATE AUDIO-VISUAL TROUBLE INDICATION				
INITIATE FIRE ALARM HORNS AND STROBES				
SILENCE HORNS & STROBES				
TRANSMIT FIRE ALARM SIGNAL TO RECEIVING STATION				
TRANSMIT SUPERVISORY SIGNAL TO RECEIVING STATION				
TRANSMIT TROUBLE SIGNAL TO RECEIVING STATION				
SHUTDOWN ASSOCIATED AIR HANDLING UNIT				
RELEASE FIRE-RATED OVERHEAD COILING DOOR				
ALARM CONDITIONS				
MANUAL PULL STATION	●	●	●	●
WATERFLOW SWITCH	●	●	●	●
SMOKE DETECTOR	●	●	●	●
DUCT SMOKE DETECTOR	●	●	●	●
SMOKE DETECTORS AT FIRE-RATED OVERHEAD COILING DOOR	●	●	●	●
SUPERVISORY CONDITIONS				
VALVE SUPERVISORY (TAMPER) SWITCH	●		●	
FACU SUPERVISORY SIGNAL	●		●	
TROUBLE CONDITIONS				
FIRE ALARM TROUBLE CONDITION (OPENS, SHORTS OR GROUNDS)		●		●
ALARM SILENCE AT FACU		●		●

NOTE: REPROGRAM THE EXISTING FACU TO INCLUDE INPUTS/OUTPUT FOR NEW DEVICES.

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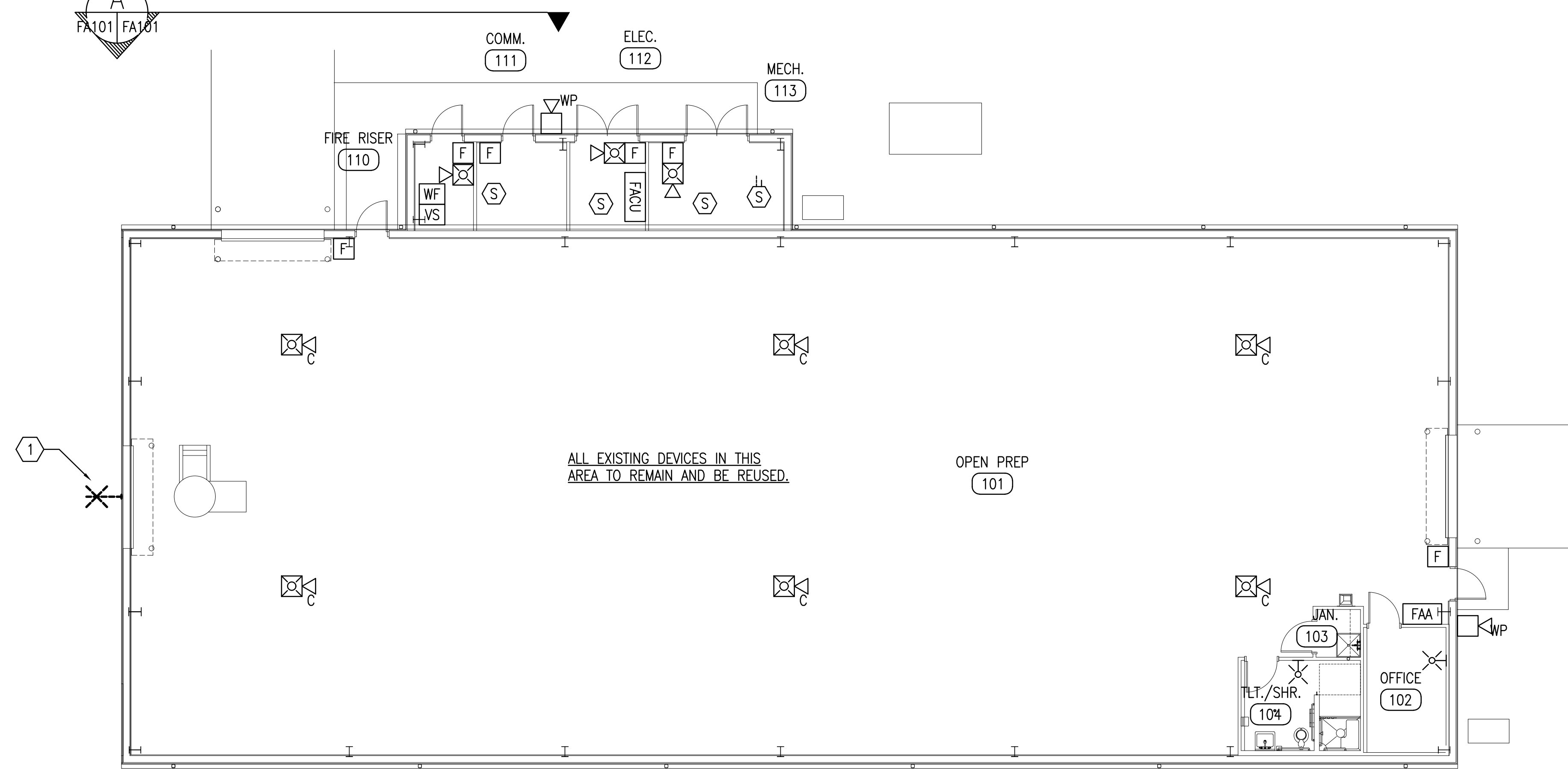
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INDEX NO.
FA001

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BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	DAK			
PROJ. ENGR.	EK			
CONTENTS				
FIRE ALARM GENERAL NOTES AND LEGEND				
APPROVED	DATE			
96 CEG/CEN	14 JUNE 2024			
APPROVED	SCALE			
BASE CIVIL ENGINEER	AS SHOWN			
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 27 OF 50

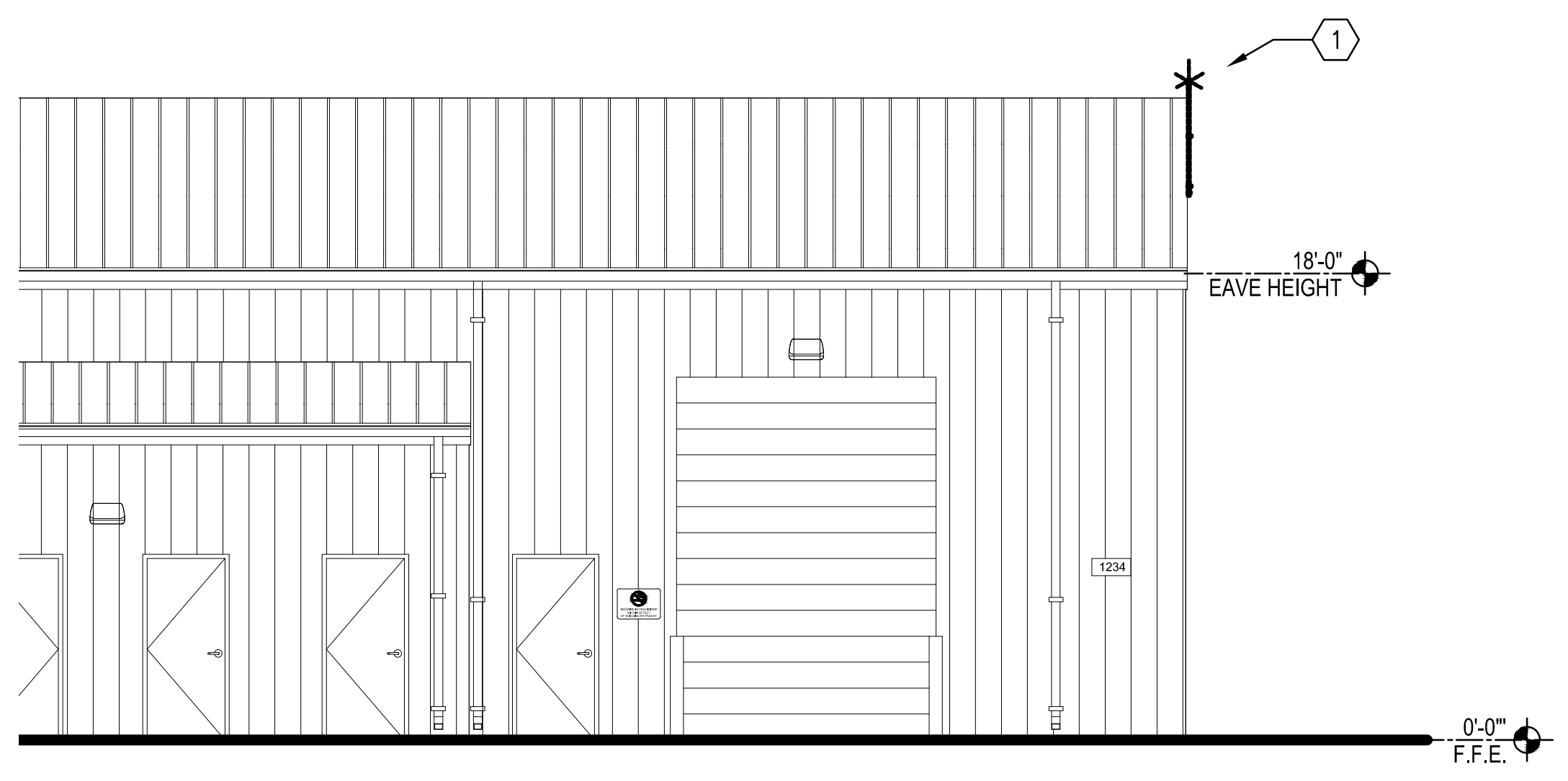
FA101 FA101



SHEET NOTES

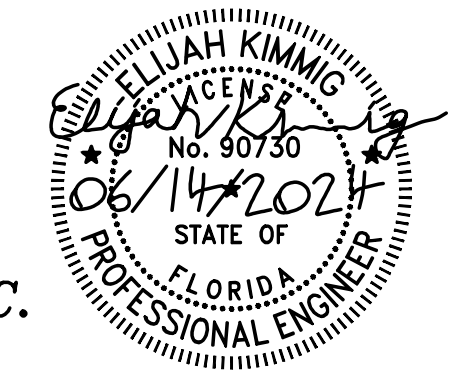
1 REMOVE MONACO ANTENNA AND ALL COMPONENTS FROM LOCATION SHOWN.

1 FIRE ALARM DEMO PLAN
FA101
SCALE: 1/8"=1'-0"



A NORTH SECTION DEMOLITION VIEW
FA101 FA101
SCALE: 3/16"=1'-0"

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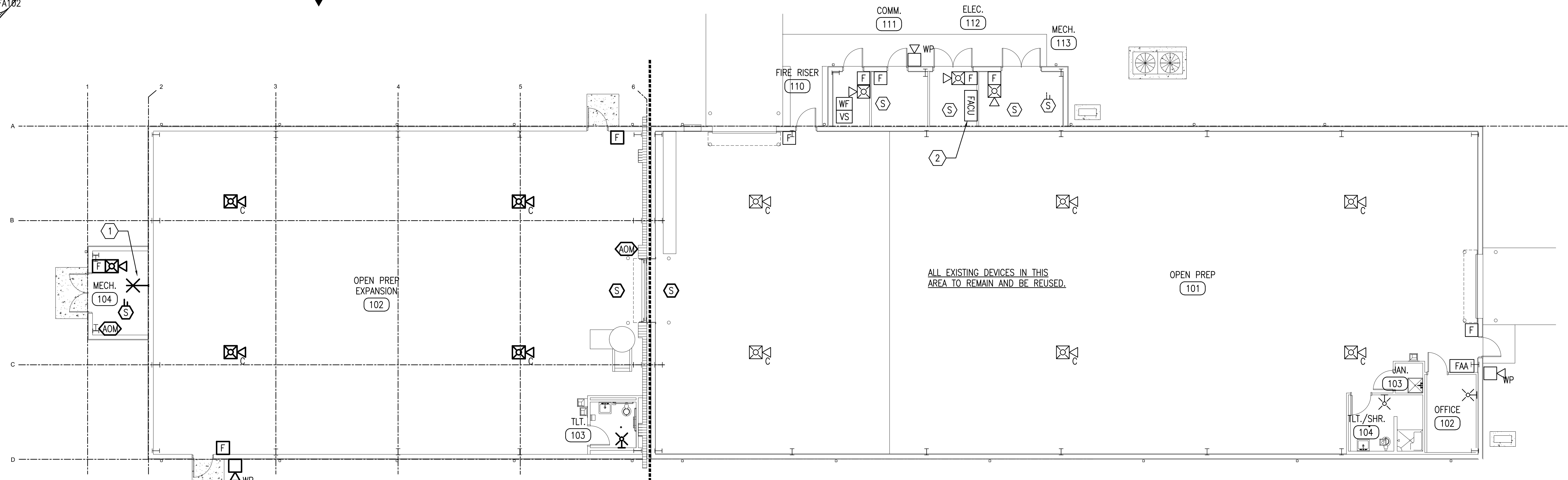


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AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE	96 CEG/CEN			
APPROVED	DATE 14 JUNE 2024			
CENM	SCALE AS SHOWN			
DRAWN BY DAK	CONTENTS			
PROJ. ENGR. EK	FIRE ALARM DEMO WORK PLAN			
INDEX NO.		SPEC. NO.		
FA101		24AC		
PROJ. NO.		DRAWING NO.		FILE NO.
FTFA23VH48		24AC		SHEET 28 OF 50

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FA102 FA102



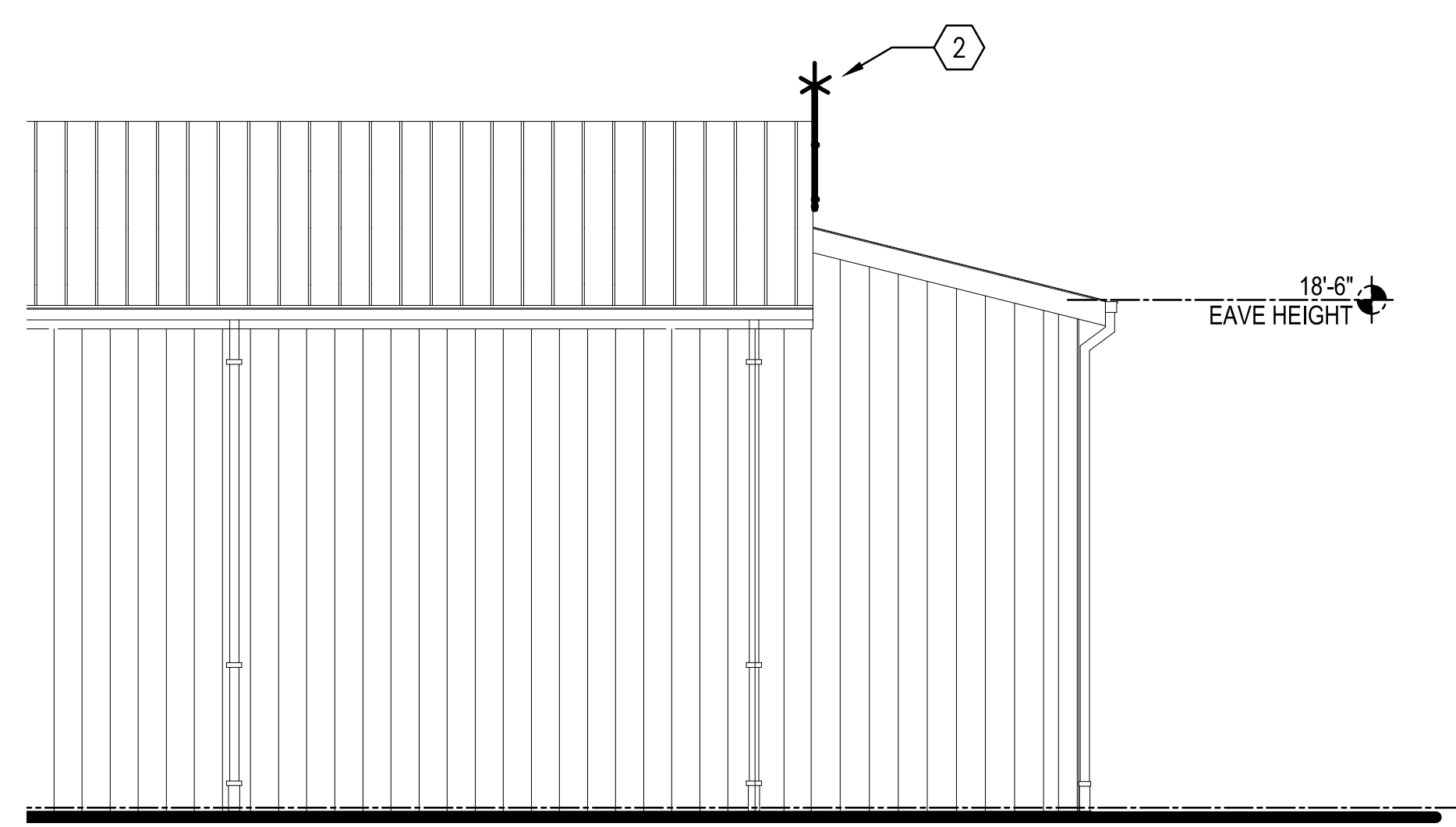
FIRE ALARM DEVICE LAYOUT NOTE: THE SYSTEM LAYOUT ON THE DRAWINGS IS DIAGRAMMATICAL AND SHOWS THE INTENT OF COVERAGE. FINAL QUANTITY, SYSTEM LAYOUT, AND COORDINATION ARE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. THE FIRE ALARM SYSTEM DESIGNER SHALL LAYOUT AUDIBLE NOTIFICATION APPLIANCES TO ACHIEVE THE REQUIRED DBA LEVELS REQUIRED BY NFPA 72. VISUAL NOTIFICATION APPLIANCES LAYOUT SHALL ALSO MEET THE CANDELA REQUIREMENTS OF NFPA 72. THE FINAL QUANTITY AND LOCATION OF ALL DEVICES SHALL BE BASED ON THE CONTRACTOR'S QFPE SIGNED AND SEALED FIRE ALARM SHOP DRAWINGS.

NEW BLDG. ADDITION EXISTING BUILDING

1 FIRE ALARM NEW WORK PLAN
 FA101
 8' 0' 8' 16'
 SCALE: 1/8"=1'-0"

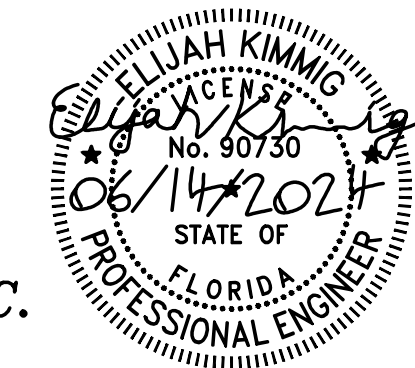
SHEET NOTES

- 1 RELOCATE MONACO ANTENNA TO LOCATION SHOWN. REUSE AND EXTEND CONDUIT PATHWAY TO MOUNT ON NEW EXTERIOR. SEE FA001 FOR DETAIL. ALL COAX SHALL BE IN CONDUIT FROM MONACO TO ANTENNA.
- 2 REPROGRAM FACU AS REQUIRED TO INCLUDE ADDITIONAL DEVICES.



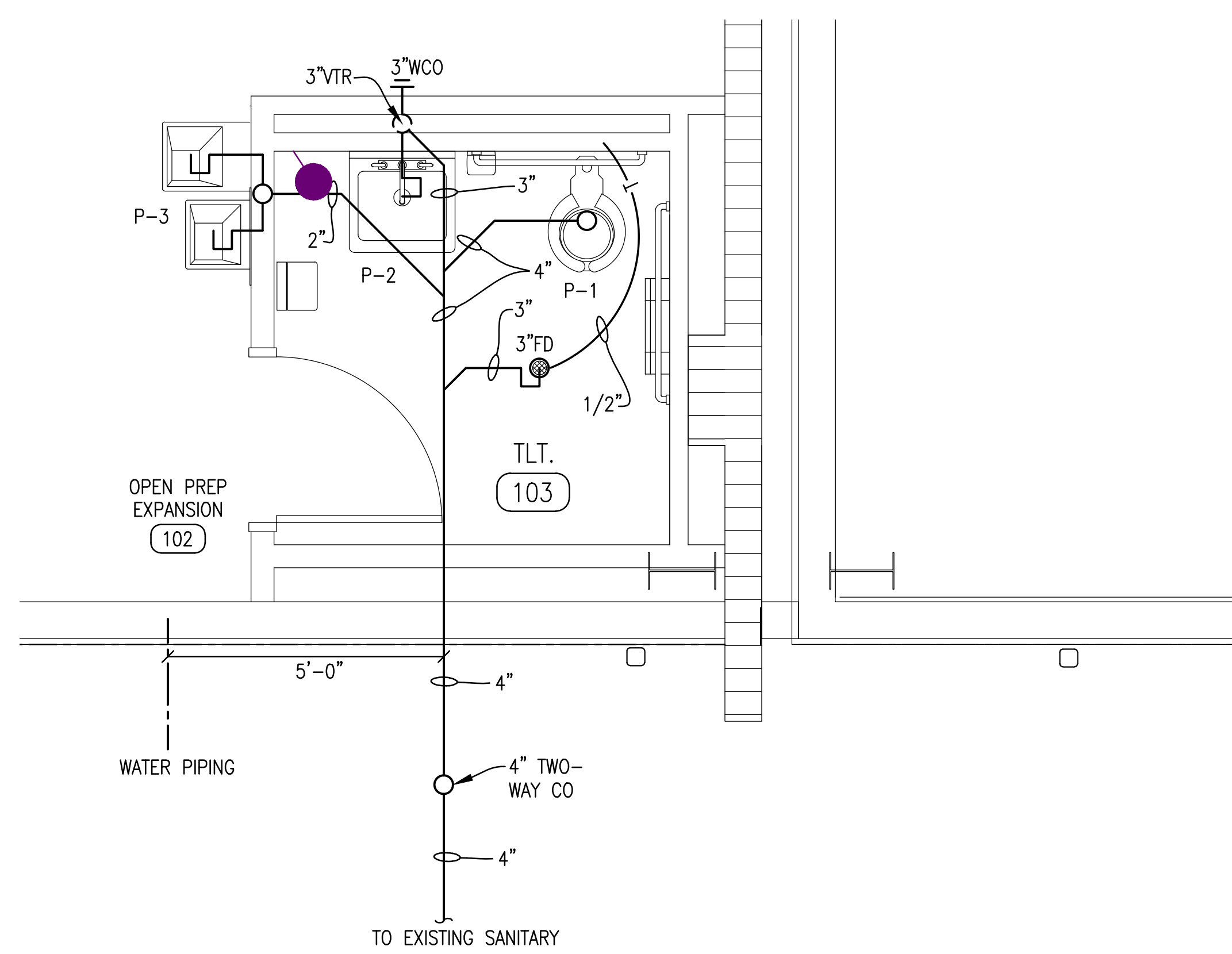
B NORTH SECTION NEW WORK VIEW
 FA101 FA101
 5' 0' 5' 10'
 SCALE: 3/16"=1'-0"

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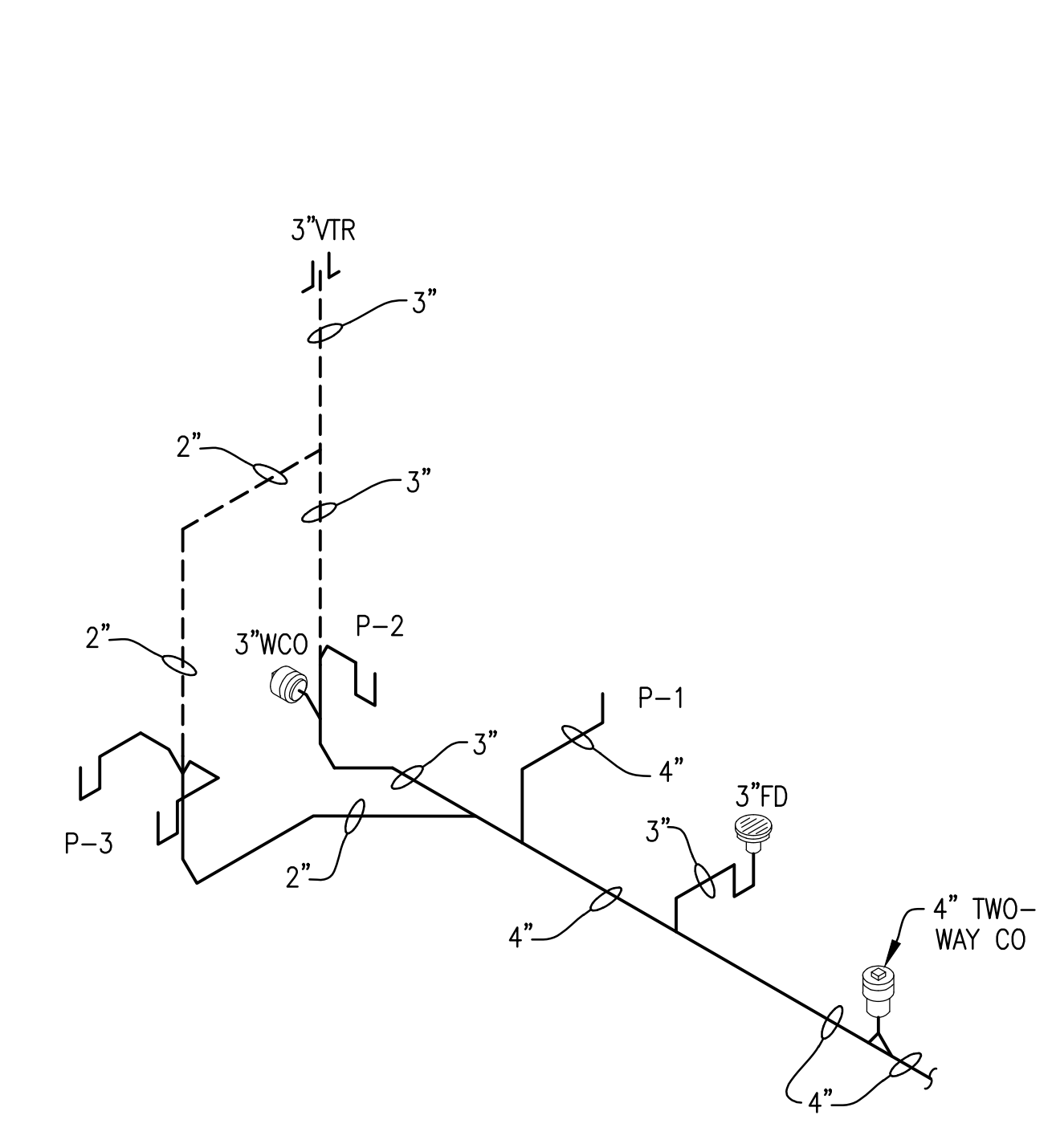


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AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	DAK			
PROJ. ENGR.	EK			
CONTENTS				
FIRE ALARM NEW WORK PLAN				
APPROVED				DATE
96 CEG/CEN				14 JUNE 2024
APPROVED				SCALE
BASE CIVIL ENGINEER				AS SHOWN
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	
24AC	FTFA23VH48	24AC		
INDEX NO.				SHEET
FA102				29 OF 50

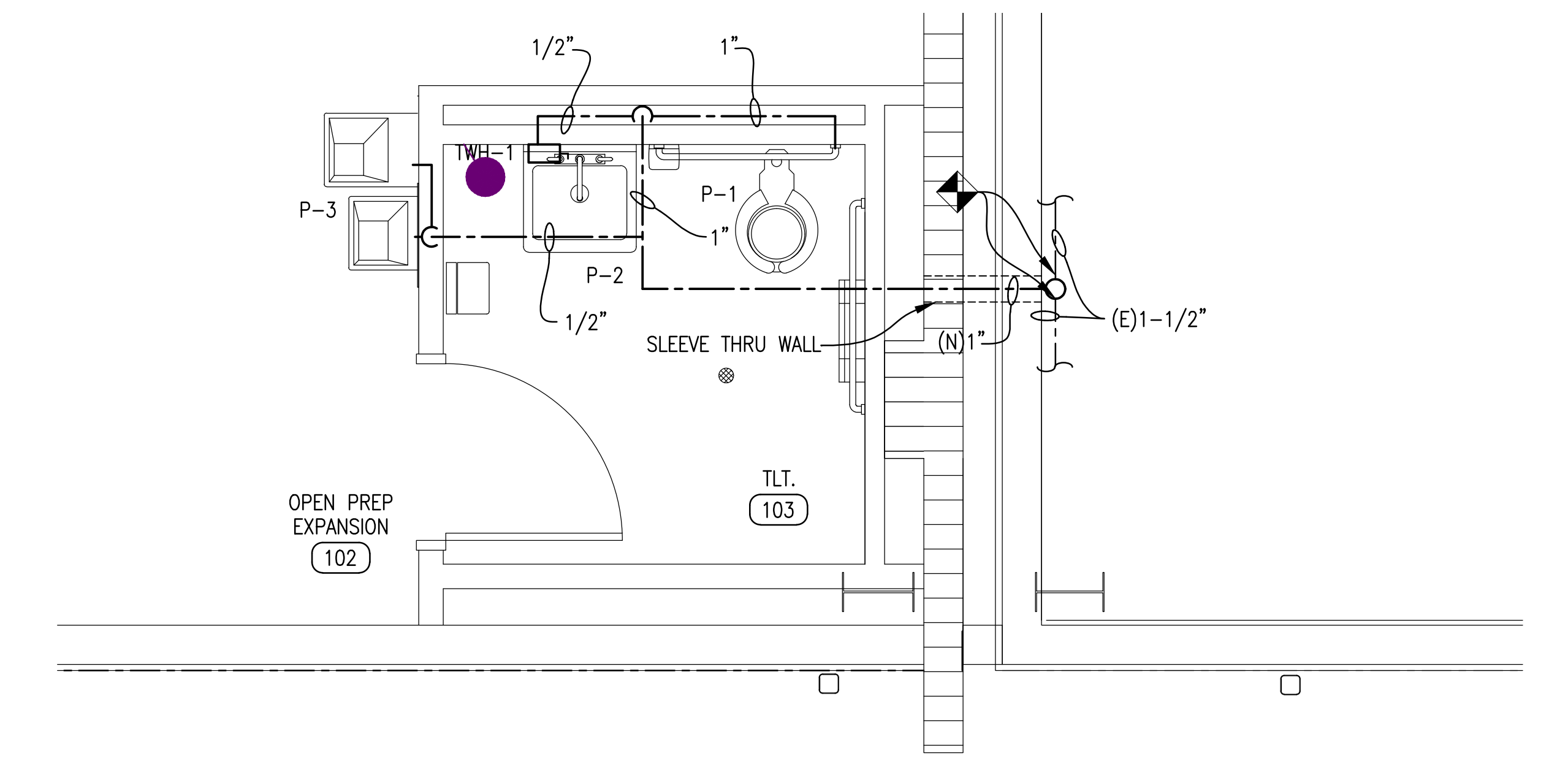
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PLUMBING PLAN - WASTE
SCALE: 1/2" = 1'-0"



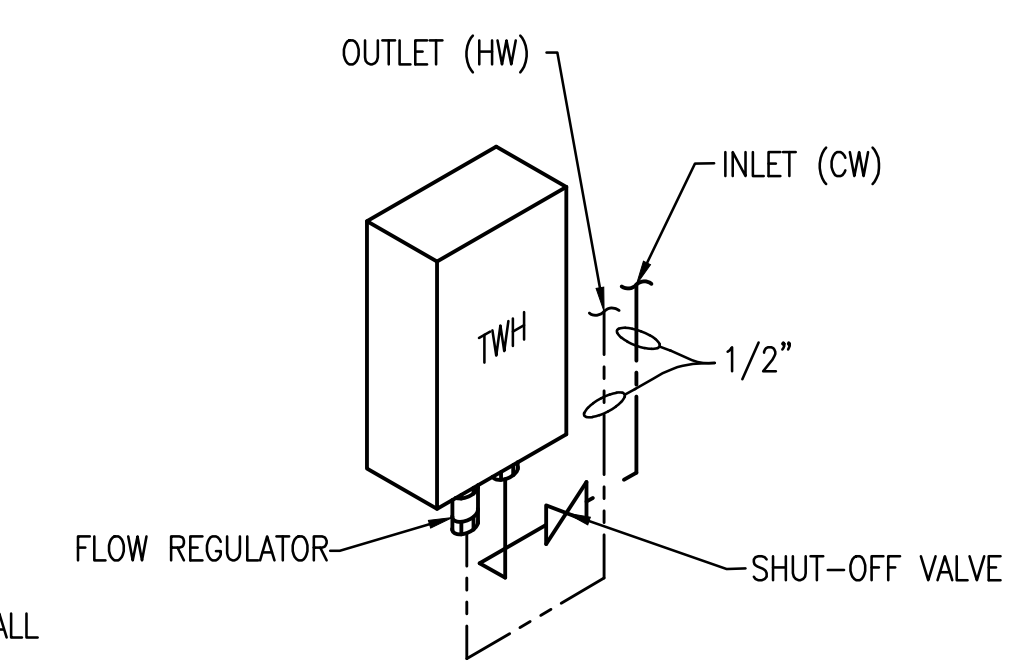
WASTE AND VENT RISER DIAGRAM
NOT TO SCALE



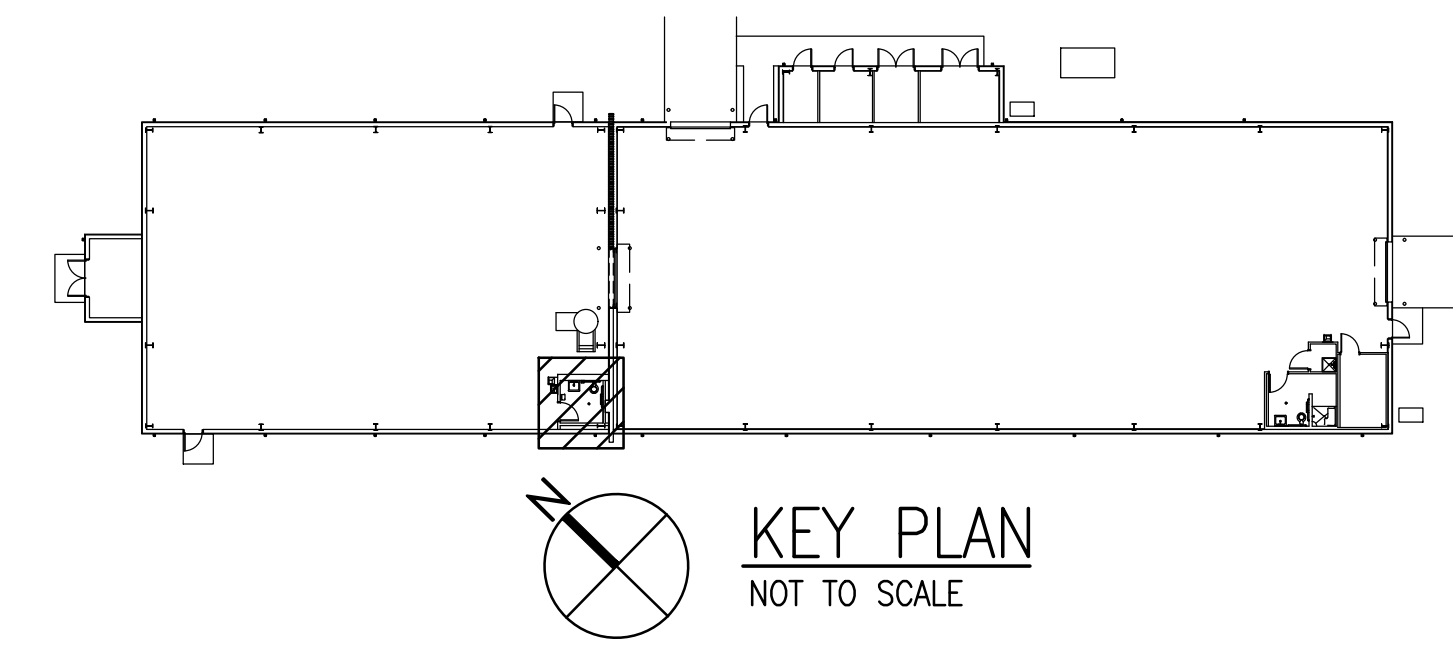
PLUMBING PLAN - WATER
SCALE: 1/2" = 1'-0"

PLUMBING FIXTURE CONNECTION SCHEDULE					
MARK	DESCRIPTION	WASTE	CW	HW	REMARKS
P-1	WATER CLOSET	4"	1"	--	FLOOR MOUNTED FLUSH VALVE VITREOUS CHINA AT 1.28 GPF
P-2	LAVATORY	1-1/4"	1/2"	1/2"	WALL HUNG VITREOUS CHINA WITH SINGLE LEVER FAUCET AT 0.5 GPM
P-3	WATER COOLER	1-1/4"	1/2"	--	WALL HUNG STAINLESS STEEL SPLIT LEVEL BUBBLER STYLE WITH BOTTLE FILLER
FD	FLOOR DRAIN	3"	1/2"	--	PROVIDE WITH TRAP PRIMER CONNECTION
CO	CLEAN OUT	4"	--	--	CAST IRON

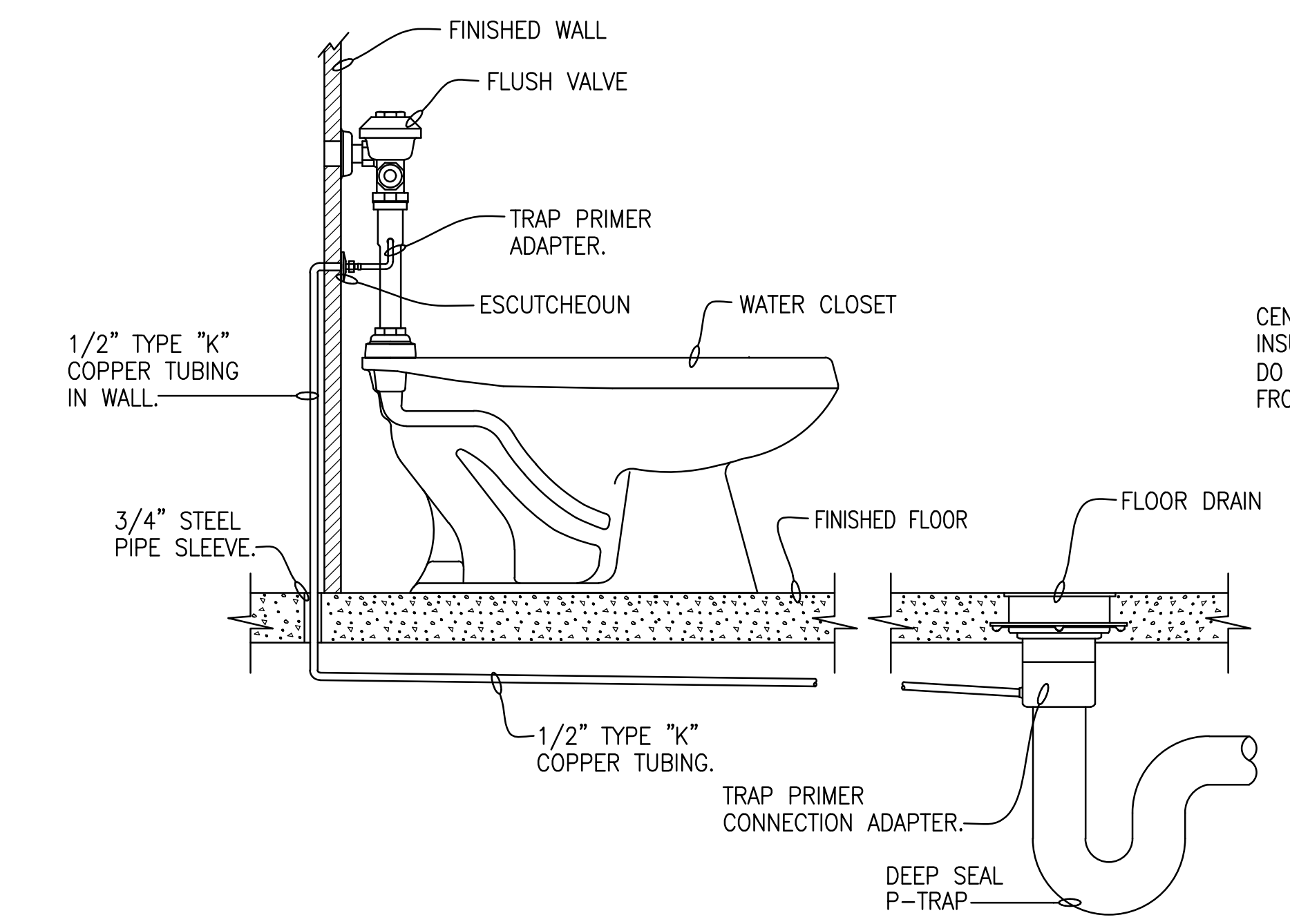
TANKLESS WATER HEATER SCHEDULE						
MARK	ELECTRICAL DATA			REMARKS	BASIS OF DESIGN:	
	VOLTS	PHASE	Hz KW			
TWH-1	120	1	60 2.4	PROVIDE WITH FLOW RESTRICTOR	EEMAX - EX2412T	



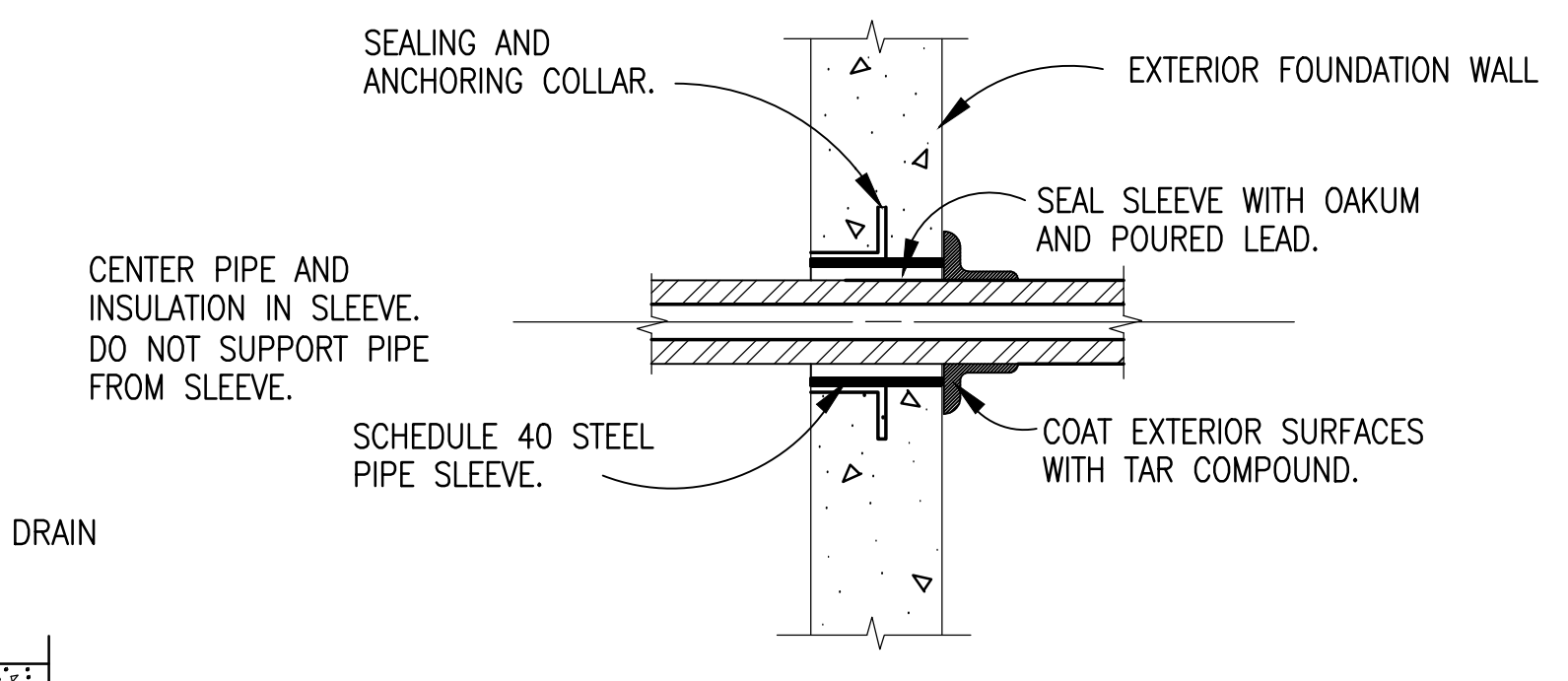
TANKLESS WATER HEATER
NOT TO SCALE



KEY PLAN
NOT TO SCALE



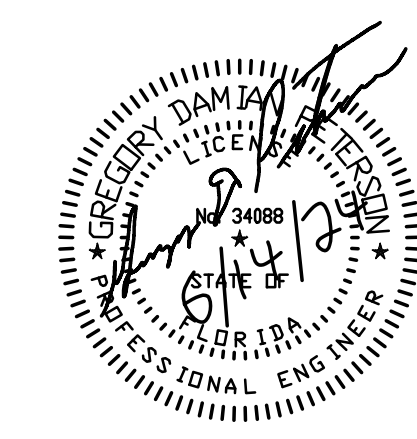
TRAP PRIMER INSTALLATION DETAIL
NOT TO SCALE



TYPICAL EXTERIOR WALL SLEEVE DETAIL
NOT TO SCALE

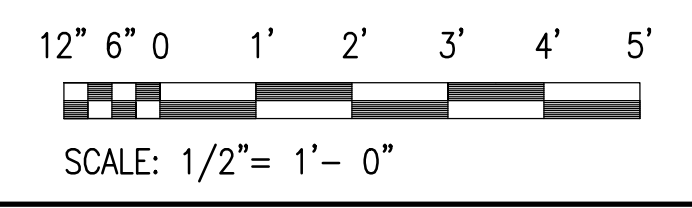
- LEGEND:**
- SLEEVE THRU WALL
 - SOIL OR WASTE PIPING
 - VENT PIPING
 - COLD WATER PIPING
 - HOT WATER PIPING
 - T ----- TRAP PRIME PIPING
 - TWH TANKLESS WATER HEATER
 - CO CLEANOUT
 - FD FLOOR DRAIN
 - VTR VENT THRU ROOF

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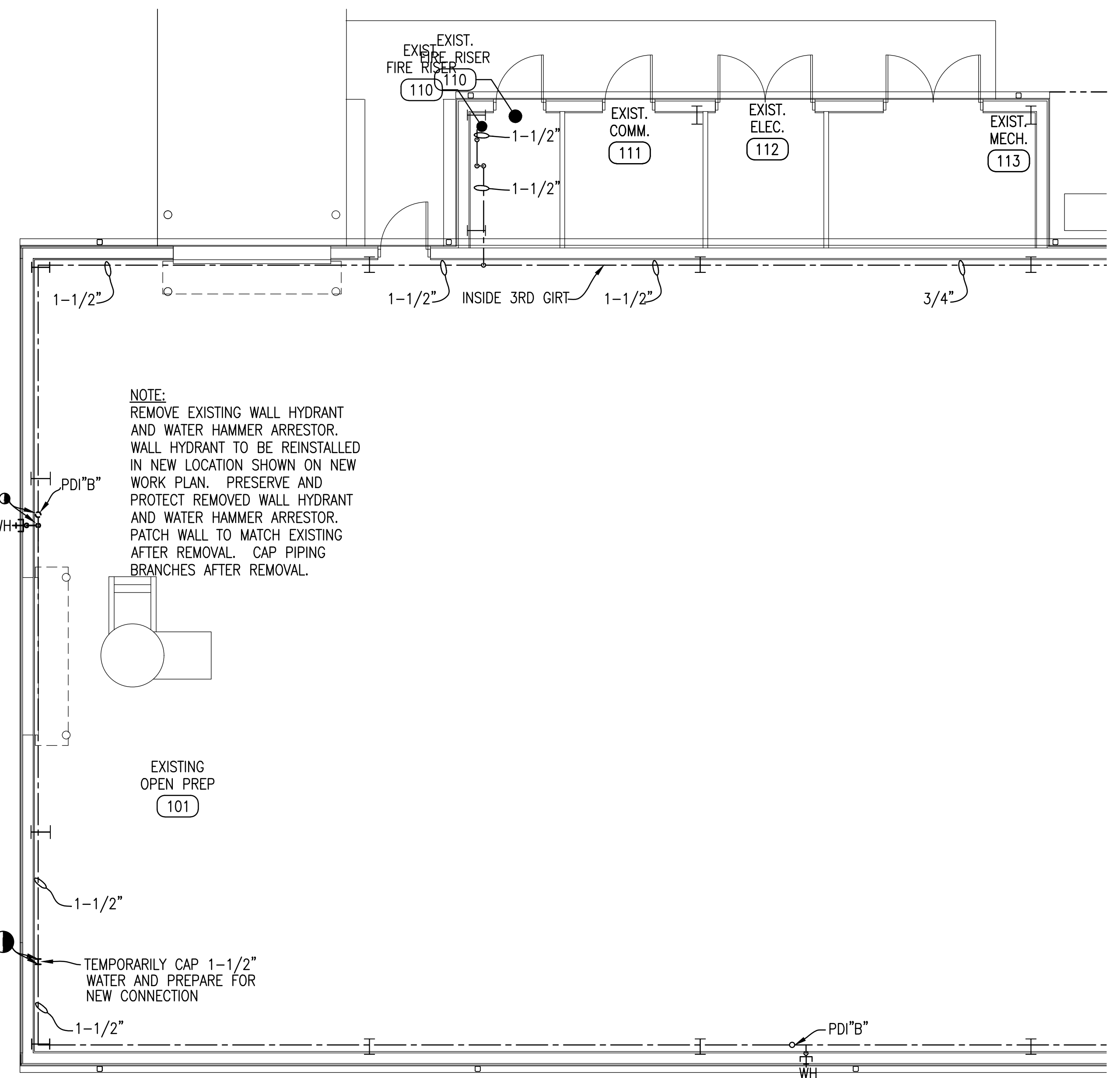
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DATE	14 JUNE 2024			
SIGNATURE	[Signature]			
APPROVED	[Signature]			
CENM	[Signature]			
DRAWN BY	JOINER			
PROJ. ENGR.	PETERSON			
CONTENTS		PLUMBING PLAN - BUILDING ADDITION WASTE & WATER		
APPROVED	96 CEG/CEN		DATE	
APPROVED	BASE CIVIL ENGINEER		SCALE	
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	SHEET
24AC	FTFA23VH48	24AC		30 OF 50

INDEX NO.
P-101

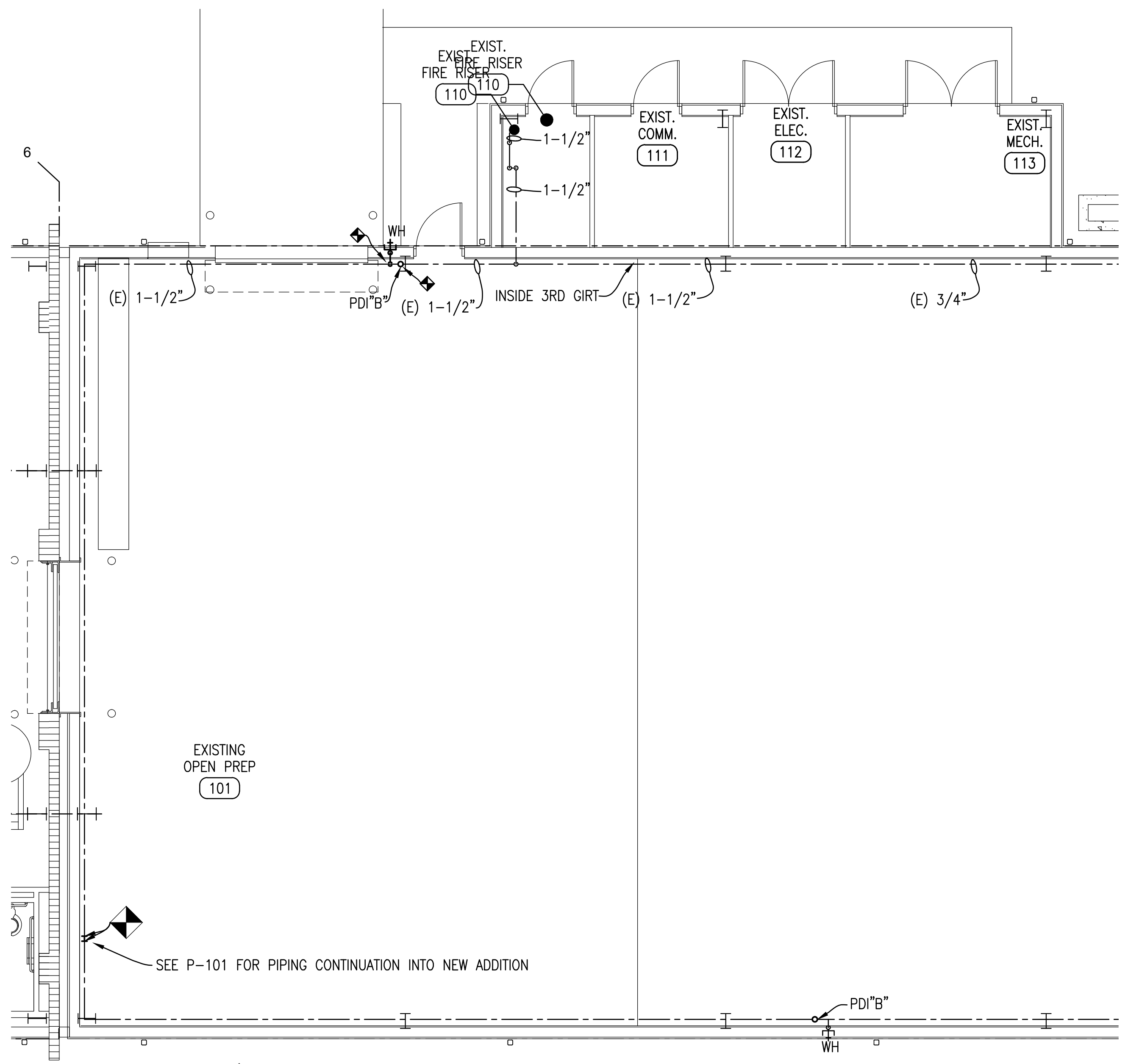


SCALE: 1/2" = 1'-0"

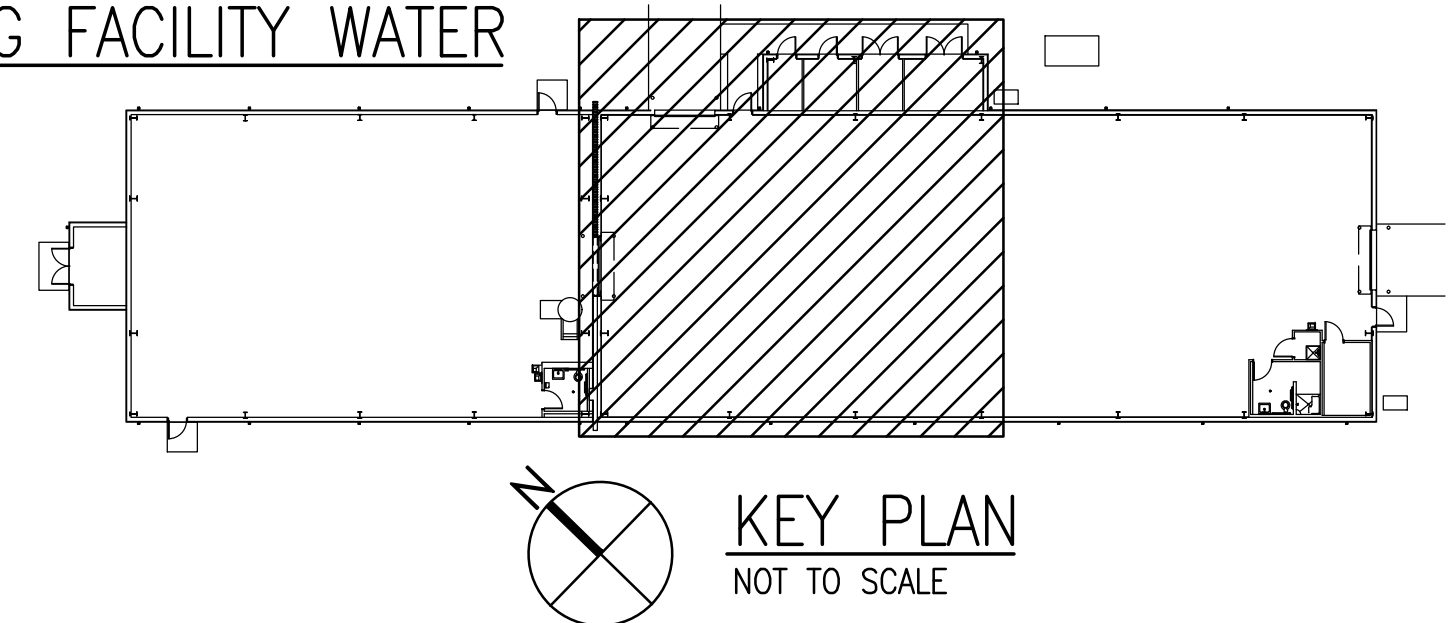
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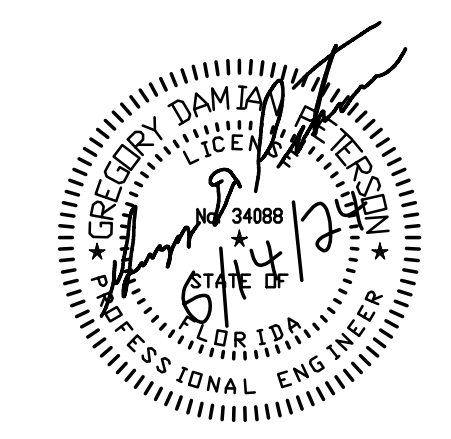
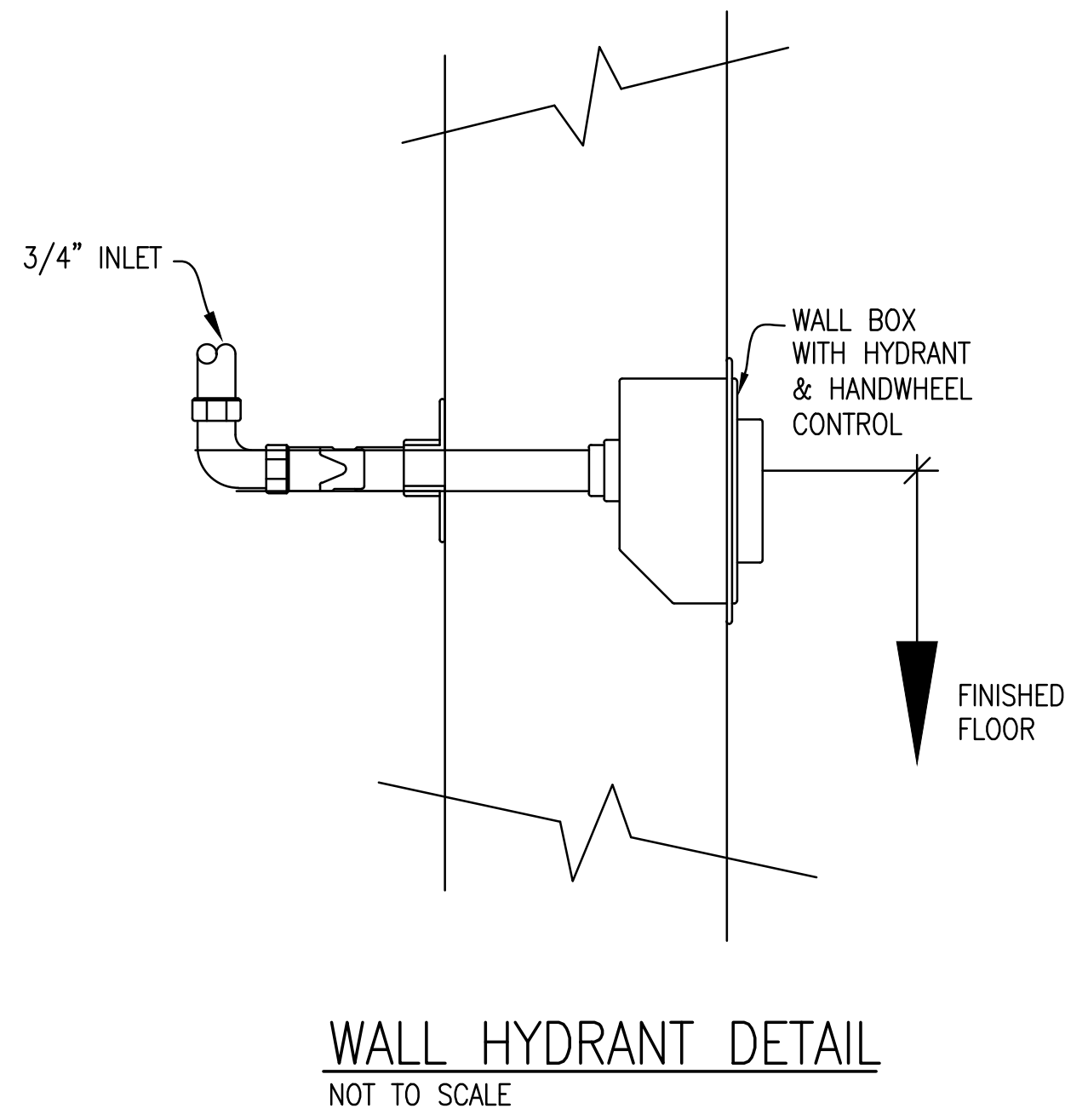
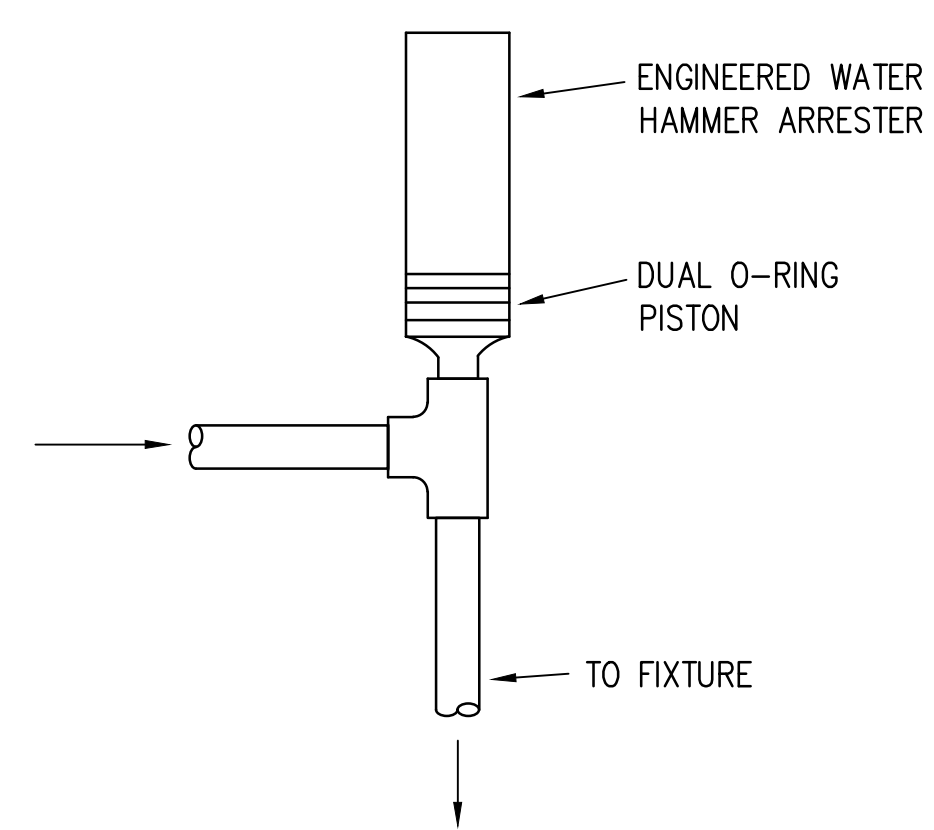
 **PLUMBING DEMOLITION PLAN – EXISTING FACILITY WATER**
SCALE: 3/16" = 1'-0"



 **PLUMBING NEW WORK PLAN – EXISTING FACILITY WATER**
SCALE: 3/16" = 1'-0"



WATER HAMMER ARRESTOR SCHEDULE			
MARK	FIXTURE UNIT RATING	CONN. SIZE INCHES	REMARKS
PDI-B	12-32	3/4"	UNITS SHALL BE PDI RATED AND APPROVED



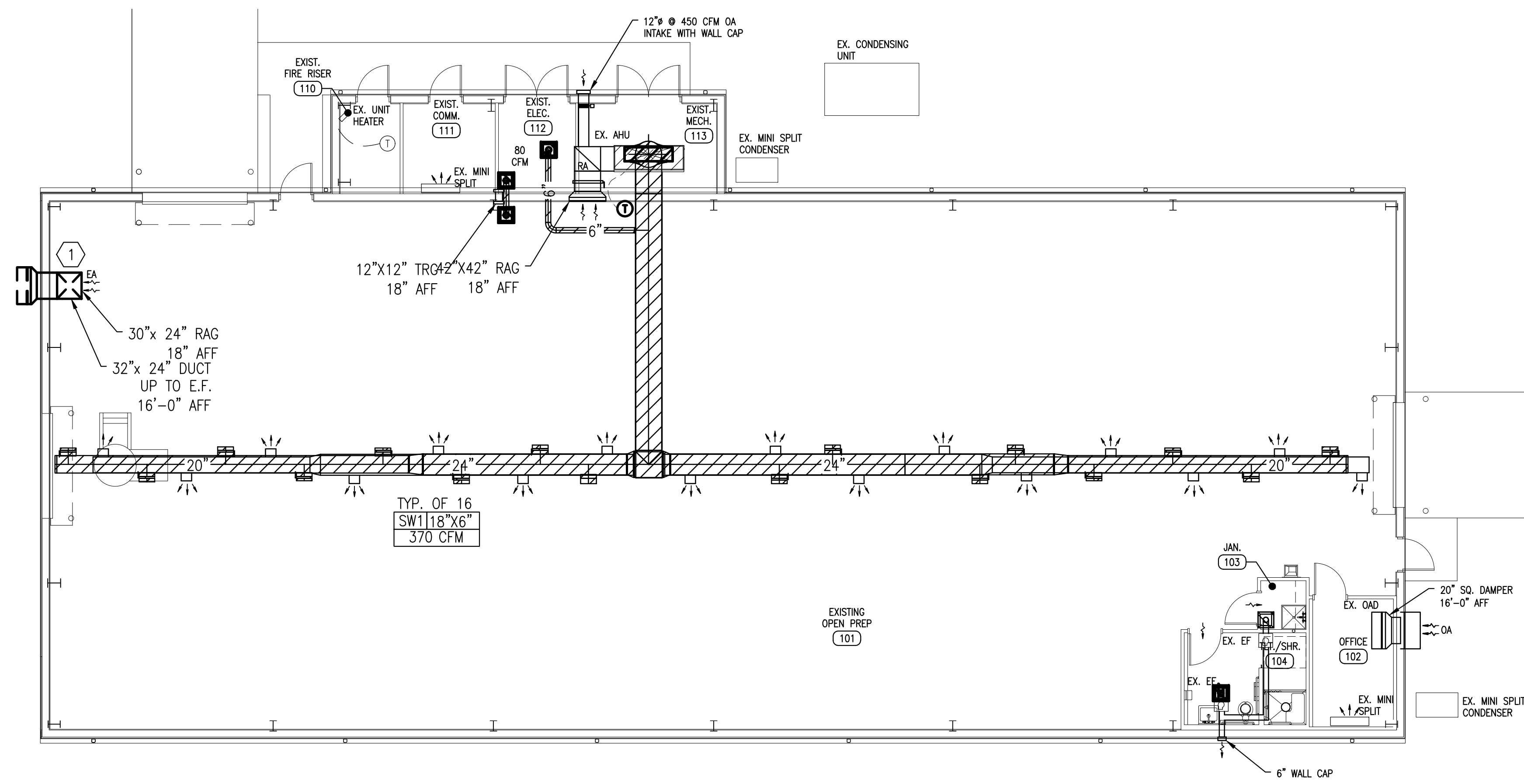
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75 SOUTH "F" STREET
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PEI 23035

INDEX NO.
P-102

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	MCGRAW			
PROJ. ENGR.	PETERSON			
CONTENTS		PLUMBING PLAN - EXISTING FACILITY WATER DEMO AND NEW WORK		
APPROVED	DATE	14 JUNE 2024		
96 CEG/CEN				
APPROVED	SCALE AS SHOWN			
BASE CIVIL ENGINEER				
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 31 OF 50

SHEET NOTES

- 1 REMOVE WALL MOUNTED EXHAUST FAN AND ALL ASSOCIATED DUCTWORK FOR REINSTALLATION IN A NEW LOCATION. REPLACE ENTIRE AFFECTED EXTERIOR METAL PANEL WITH NEW TO MATCH EXISTING BUILDING. SEE ARCHITECTURAL.



MECHANICAL DEMOLITION PLAN
 SCALE: 1/8" = 1'-0"
 5' 0 5' 15'
 SCALE: 1/8" = 1'-0"



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INDEX NO.
MD101

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT DATE _____ SIGNATURE _____ APPROVED _____ CENM _____ DRAWN BY MCGRAW PROJ. ENGR. PETERSON		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
CONTENTS MECHANICAL DEMOLITION PLAN				
APPROVED 96 CEG/CEN			DATE 14 JUNE 2024	
APPROVED BASE CIVIL ENGINEER			SCALE AS SHOWN	
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 32 OF 50

GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE ANY DUCTWORK OR PIPING IS FABRICATED.
2. THE CONTRACTOR SHALL MAKE OFFSETS AND MINOR ADJUSTMENTS AS REQUIRED FOR SYSTEM INSTALLATIONS.
3. COORDINATION WITH ALL TRADES IS REQUIRED FOR ALL WORK UNDER THIS CONTRACT.
4. THE CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS OF THE BUILDING WITHOUT WRITTEN CONSENT FROM THE GOVERNMENT.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE TO STUDY DETAILS OF THE WORK, WORKING CONDITIONS, AND VERIFY CONDITIONS IN THE FIELD.
6. VERIFY COLLAR SIZES ON ALL EQUIPMENT INLETS AND OUTLETS AND TRANSITION DUCTWORK AS NECESSARY.
7. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
8. INSTALL ALL EQUIPMENT AND DUCTWORK SUCH THAT MANUFACTURERS RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS, AND INTAKES.
9. PROVIDE FLEXIBLE DUCT CONNECTIONS AND VIBRATION ISOLATORS FOR ALL UNITS.
10. ALL DUCTWORK SHALL BE GALVANIZED METAL CONSTRUCTION.
11. PIPE ROUTING SHALL NOT INTERFERE WITH FILTER REMOVAL OR ACCESS DOORS.
12. SEAL ALL DUCT PENETRATIONS OF WALLS AIRTIGHT, REGARDLESS OF WHETHER WALLS ARE FIRE RATED OR NOT.
13. ALL SUPPLY AIR DUCTWORK (EXCEPT TAKEOFFS TO SUPPLY AIR DIFFUSERS) SHALL BE LOW PRESSURE ROUND, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, INSULATED DOUBLE WALLED. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
14. ALL RETURN/TRANSFER AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR, SMACNA STATIC PRESSURE CLASS 1" W.G., SEAL CLASS A. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS.
15. EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE RECTANGULAR SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A, INSULATION NOT REQUIRED.
16. AVOID ROUTING DUCTWORK OVER LIGHTS WHEREVER POSSIBLE. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCT INSULATION TO TOP OF LIGHTS.
17. HVAC DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DETAILED DIMENSION REQUIREMENTS.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF ALL SUBCONTRACTORS TO AVOID INTERFERENCES.
19. SUPPORTS AND HANGERS FOR DUCTWORK AND PIPING SHALL PRESENT A NEAT AND ORDERLY APPEARANCE.
20. DETAILS ARE FOR TYPICAL INSTALLATION. THE MANUFACTURER'S INSTALLATION GUIDELINES SUPERCEDE DETAILS IF THERE IS A CONFLICT.
21. EXISTING WALLS, CEILINGS, AND FLOORS SHALL BE PATCHED TO MATCH EXISTING AFTER EQUIPMENT IS REMOVED.
22. COORDINATE LOCATIONS FOR SUPPLY AND RETURN AIR DEVICES WITH SPRINKLER HEAD LOCATIONS. SPRINKLER HEADS TAKE PRECEDENCE. SHIFT SUPPLY AND RETURN AIR DEVICES AS NEEDED TO AVOID CONFLICT.

MECHANICAL ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
CFM	CUBIC FEET PER MINUTE
"F	DEGREE FAHRENHEIT
EA	EACH
EF	EXHAUST FAN
EXH	EXHAUST
HW	HOT WATER
HWS/R	HOT WATER SUPPLY/RETURN
MAX	MAXIMUM
MIN	MINIMUM
MVD	MANUAL VOLUME DAMPER
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OC	ON CENTER
OCEW	ON CENTER EACH WAY
Ø	ROUND
RA	RETURN AIR
RAG	RETURN AIR GRILL
RAR	RETURN AIR REGISTER
SA	SUPPLY AIR
SP	SECURE PENETRATION
TG	TRANSFER GRILLE
W/	WITH

MECHANICAL LEGEND

T	AHU-1	THERMOSTAT
◁		30° DUCT TRANSITION
⊗		SUPPLY DUCT UP
⊘		RETURN AIR DOWN
⊗		EXHAUST AIR UP
□		NEW DUCTWORK
□		EXISTING DUCTWORK
- - -		DEMOLISHED DUCTWORK
⊠		NEW AIR HANDLER AND RETURN AIR PLENUM
⊠		SIDEWALL SUPPLY GRILLE W/ REGISTER BOX AND MVD
⊠		HEAT PUMP OUTDOOR UNIT
⊠		CEILING EXHAUST FAN
⊠		SURFACE MOUNTED GRILLE
-		DUCT MOUNTED MOTORIZED DAMPER



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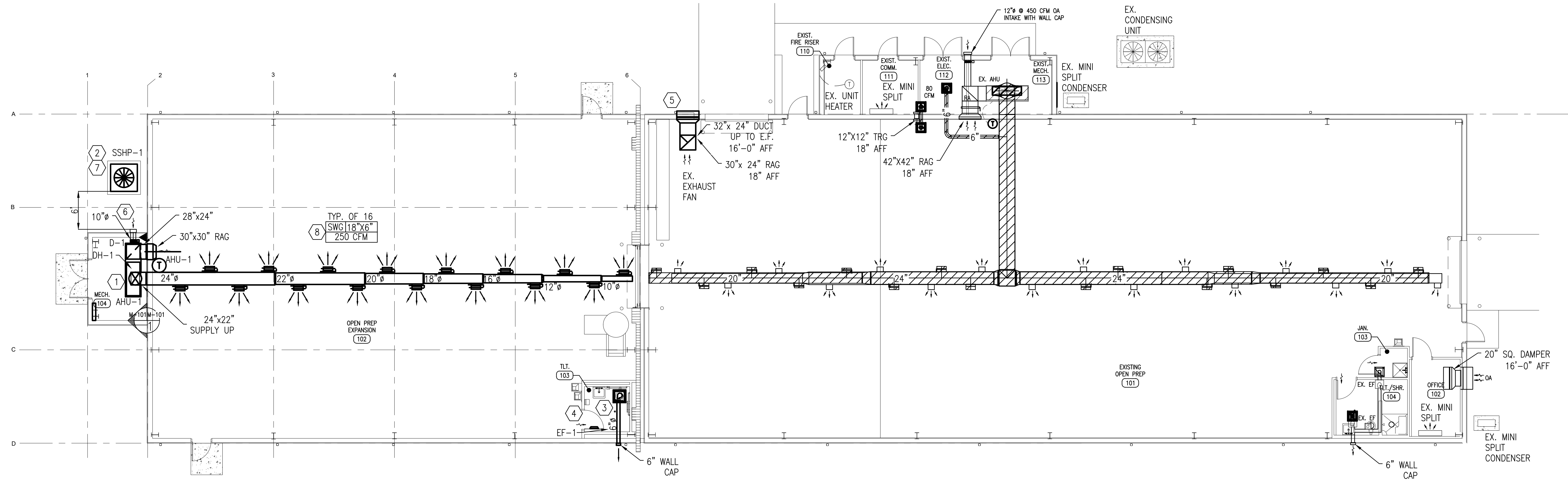
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INDEX NO.
M-001

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE _____		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CONTENTS MECHANICAL GENERAL NOTES AND LEGEND </div>		
SIGNATURE _____				
APPROVED _____				
CENM _____				
DRAWN BY MCGRAW PROJ. ENGR. PETERSON				
APPROVED _____		DATE 14 JUNE 2024		
APPROVED _____		SCALE AS SHOWN		
BASE CIVIL ENGINEER				
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 33 OF 50

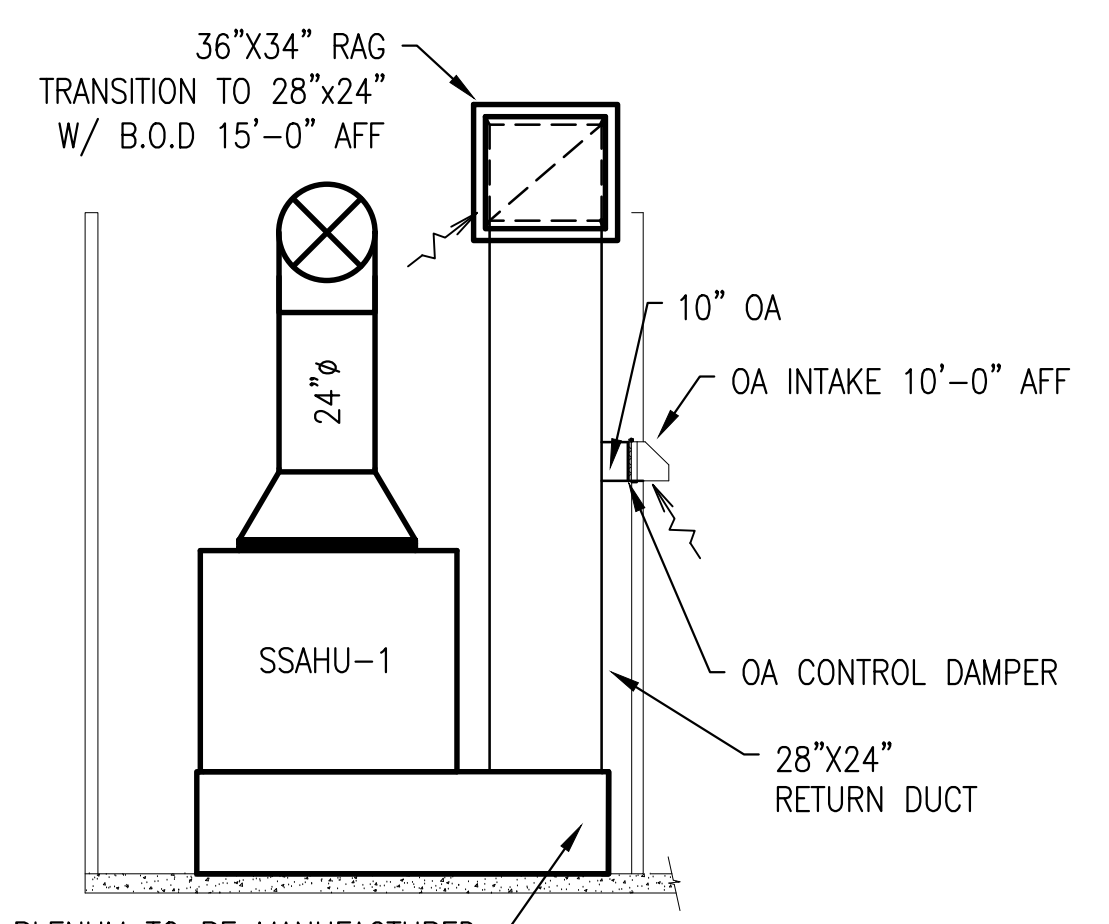
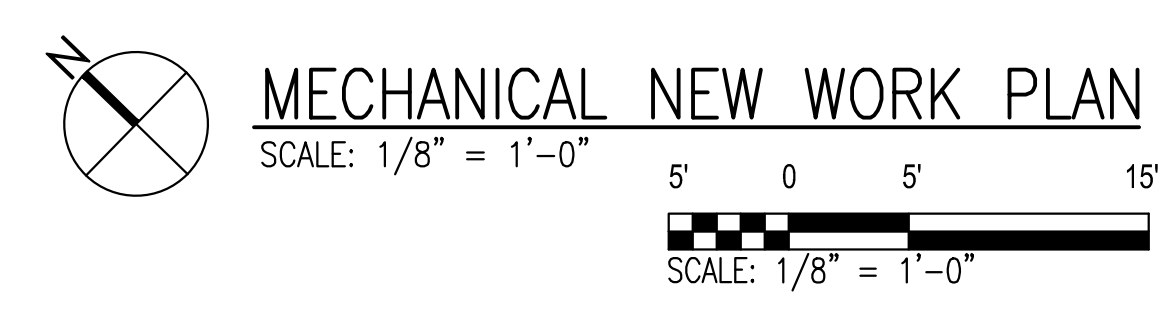
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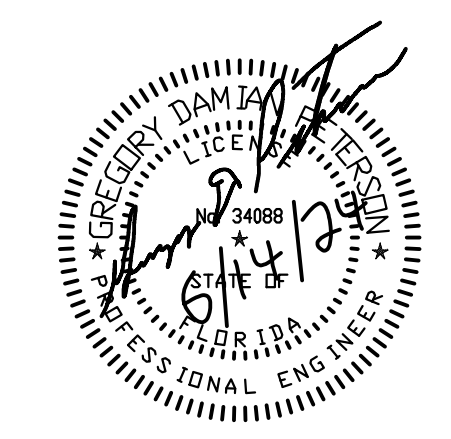
SHEET NOTES

- 1 PROVIDE AND INSTALL NEW AIR HANDLING UNIT AS SCHEDULED, CONTROLS, ASSOCIATED REFRIGERANT PIPING, AND CONDENSATE LINE.
- 2 PROVIDE AND INSTALL NEW CONDENSING UNIT AS SCHEDULED, COMPLETE WITH CONCRETE PAD, AND REFRIGERANT PIPING.
- 3 PROVIDE AND INSTALL NEW CEILING EXHAUST FAN AS SCHEDULED.
- 4 PROVIDE A SIGHT-PROOF 16"W x 6"H THRU-GRILLE IN DOOR; CENTER IN LOWER REGION OF DOOR.
- 5 REINSTALL PREVIOUSLY REMOVED EXHAUST LOUVER ON EXTERIOR WALL OF THE WAREHOUSE.
- 6 INSTALL OUTSIDE AIR INTAKE WITH INLET NO LESS THAN 10' ABOVE GRADE.
- 7 INSTALL HEAT PUMP CONDENSING UNIT NO LESS THAN 6' AWAY FROM OUTSIDE AIR INTAKE.
- 8 ANGLE SUPPLY GRILLES 30° BELOW HORIZONTAL.



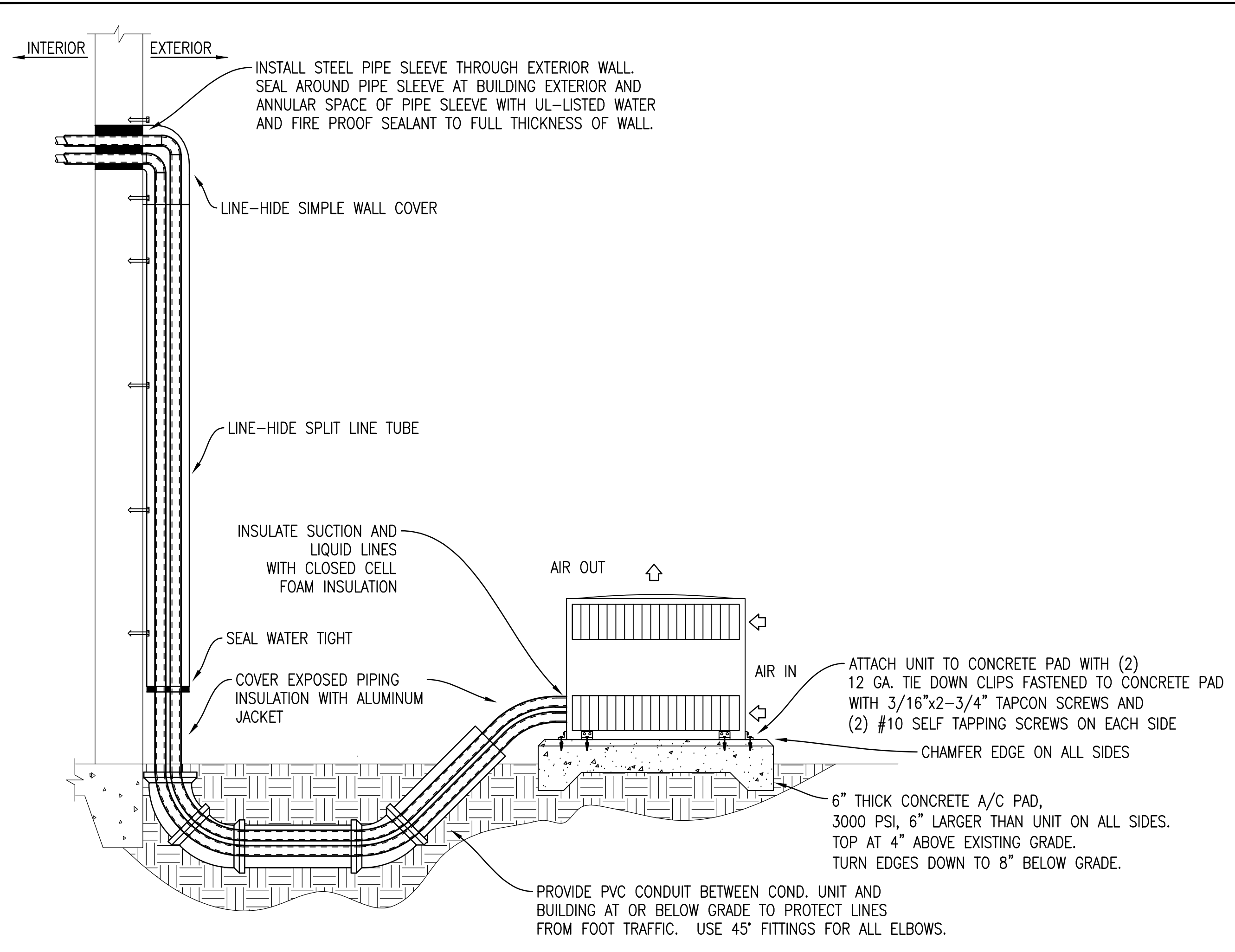
30" HIGH PLENUM. PLENUM TO BE MANUFACTURED OR SHOP FABRICATED 16 GAUGE GALVANIZED NONCOMBUSTIBLE PLENUM WITH 1" GALVANIZED ANGLE WELDED FRAME. LENGTH AND WIDTH TO ACCOMMODATE AHU UNIT AND RETURN DUCT.

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE	96 CEG/CEN			
APPROVED	APPROVED			
CENM	APPROVED			
DRAWN BY MCGRAW	BASE CIVIL ENGINEER			
PROJ. ENGR. PETERSON	DATE 14 JUNE 2024			
CONTENTS		SCALE AS SHOWN		
MECHANICAL NEW WORK PLAN		INDEX NO.		
APPROVED		M-101		
96 CEG/CEN		SPEC. NO. 24AC		
APPROVED		PROJ. NO. FTFA23VH48		
BASE CIVIL ENGINEER		DRAWING NO. 24AC		
FILE NO.		SHEET 34 OF 50		

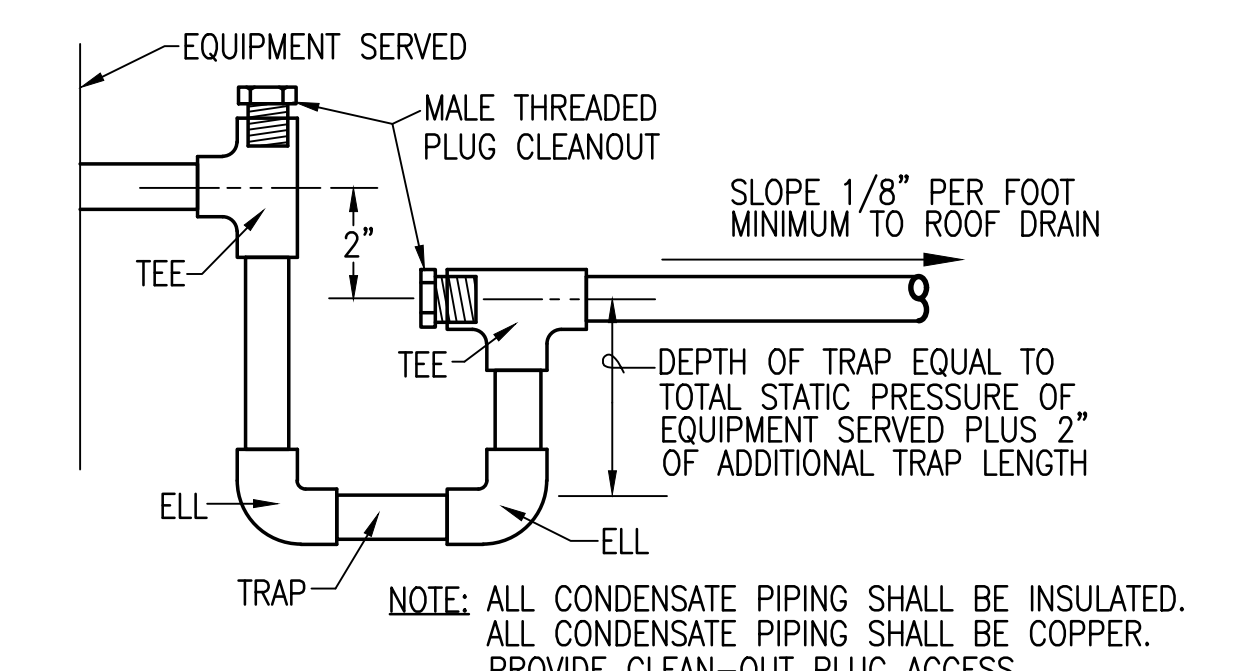


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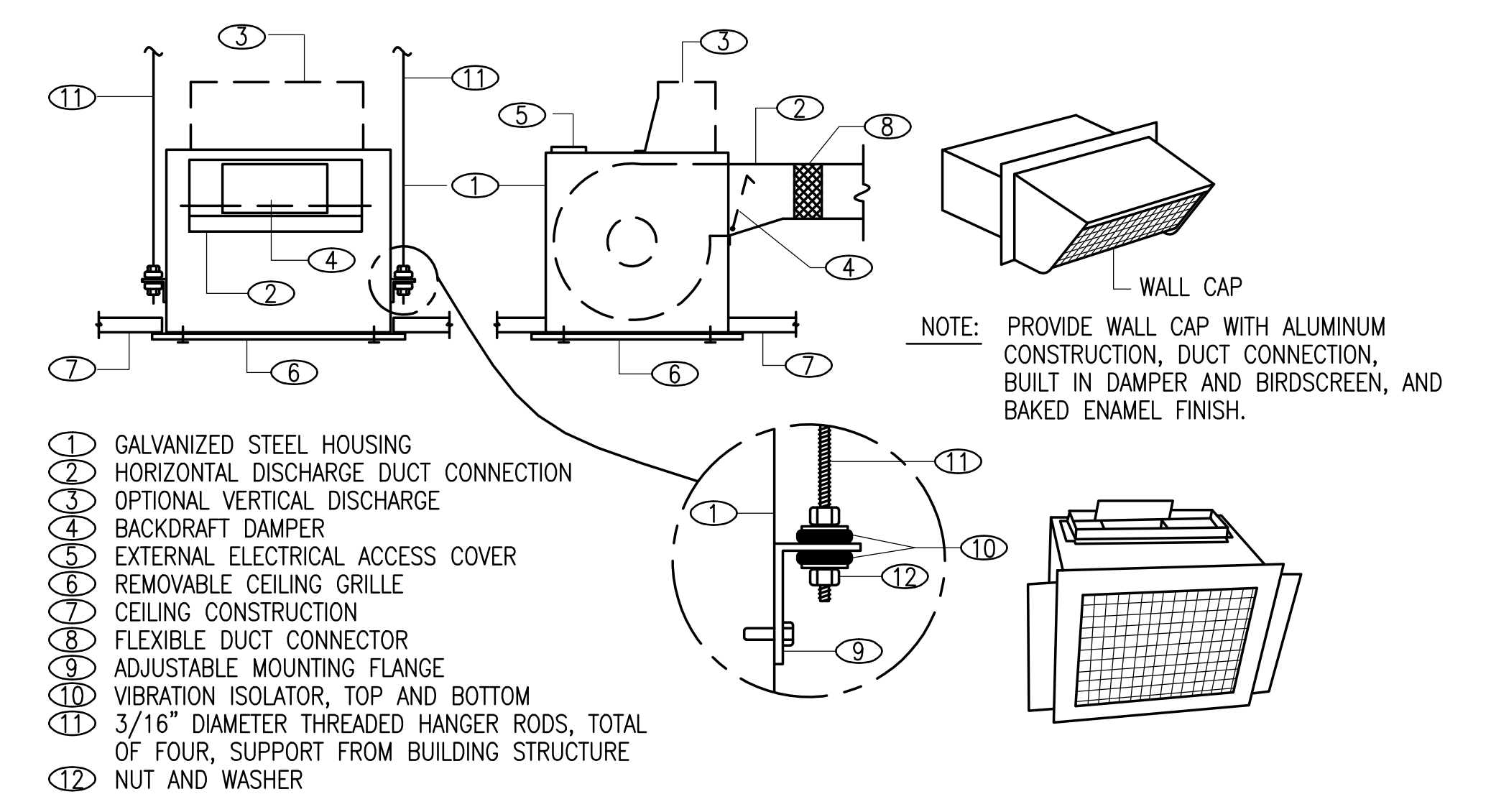
MECHANICAL ROOM 103-HVAC NEW WORK SECTION
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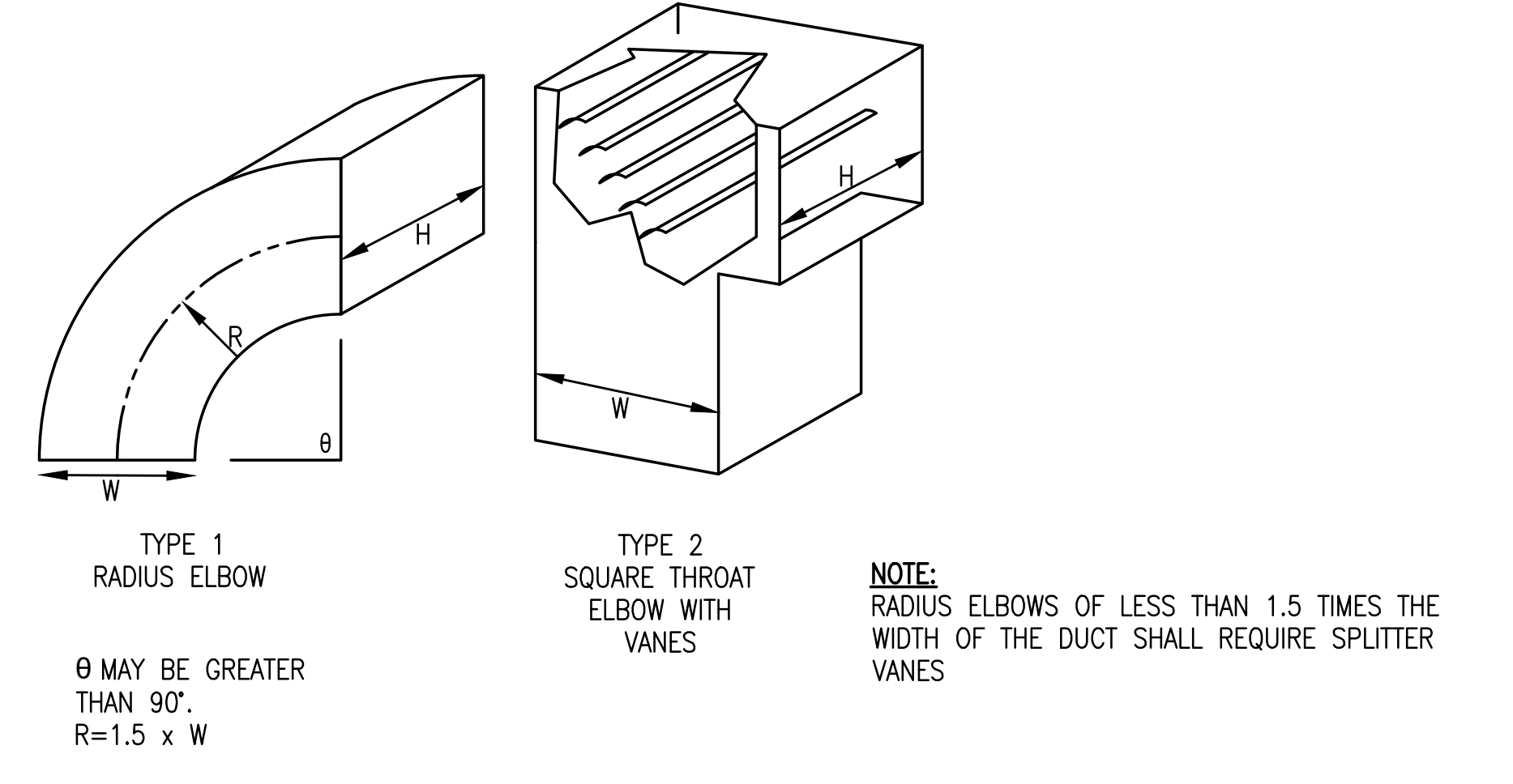
1 TYPICAL CONDENSING UNIT DETAIL
NOT TO SCALE



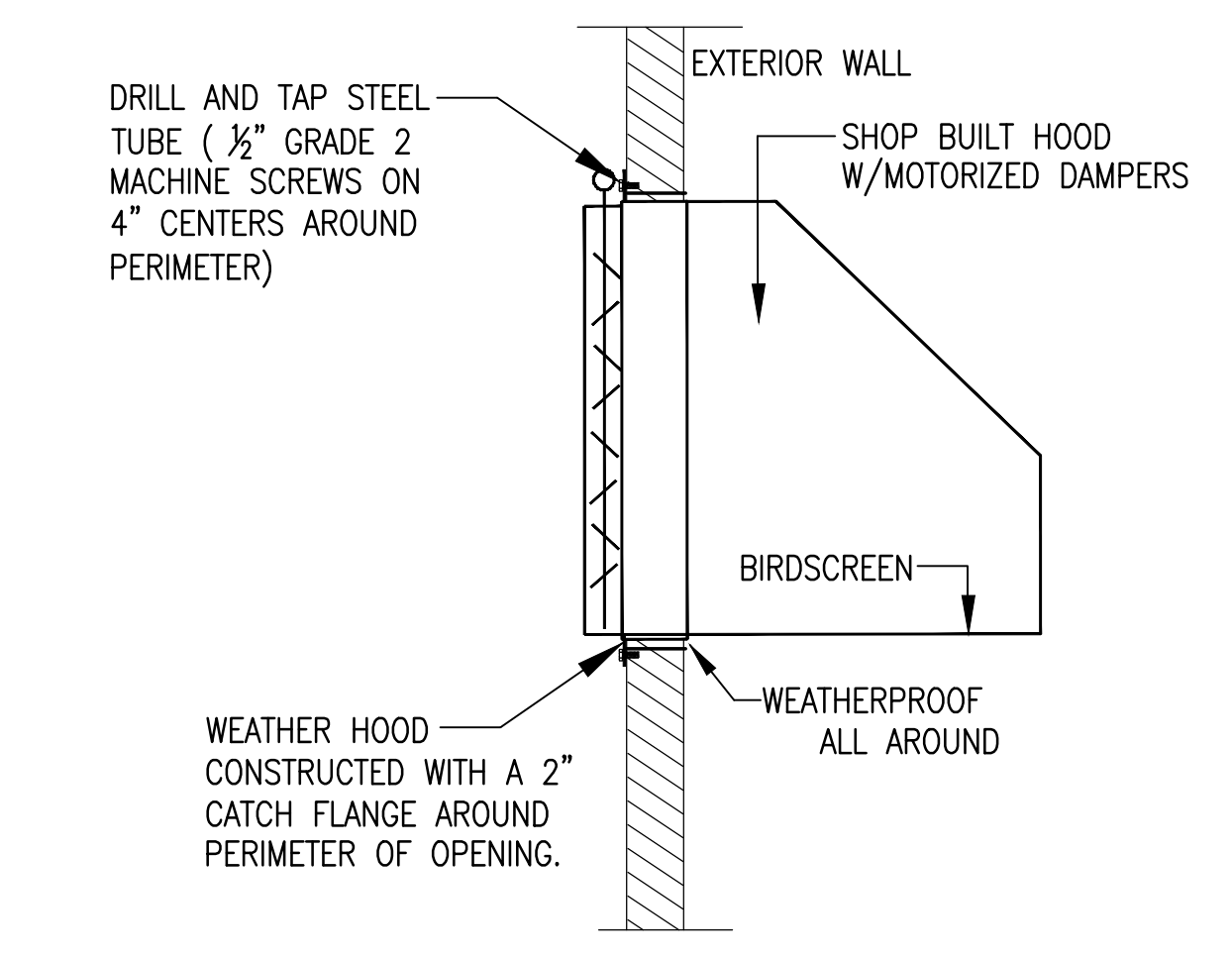
4 TYPICAL CONDENSATE DRAIN DETAIL
NOT TO SCALE



3 CEILING EXHAUST FAN DETAIL
NOT TO SCALE

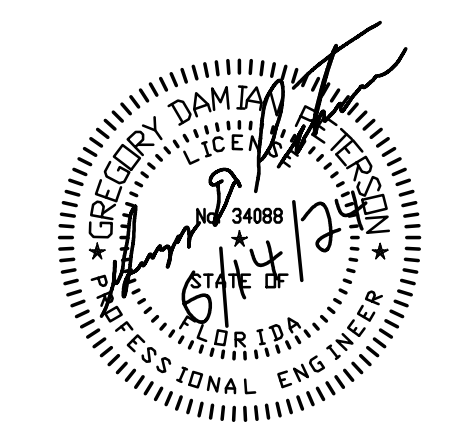


8 RECTANGULAR ELBOW DETAILS
NOT TO SCALE



6 OUTSIDE AIR INTAKE HOOD DETAIL
NOT TO SCALE

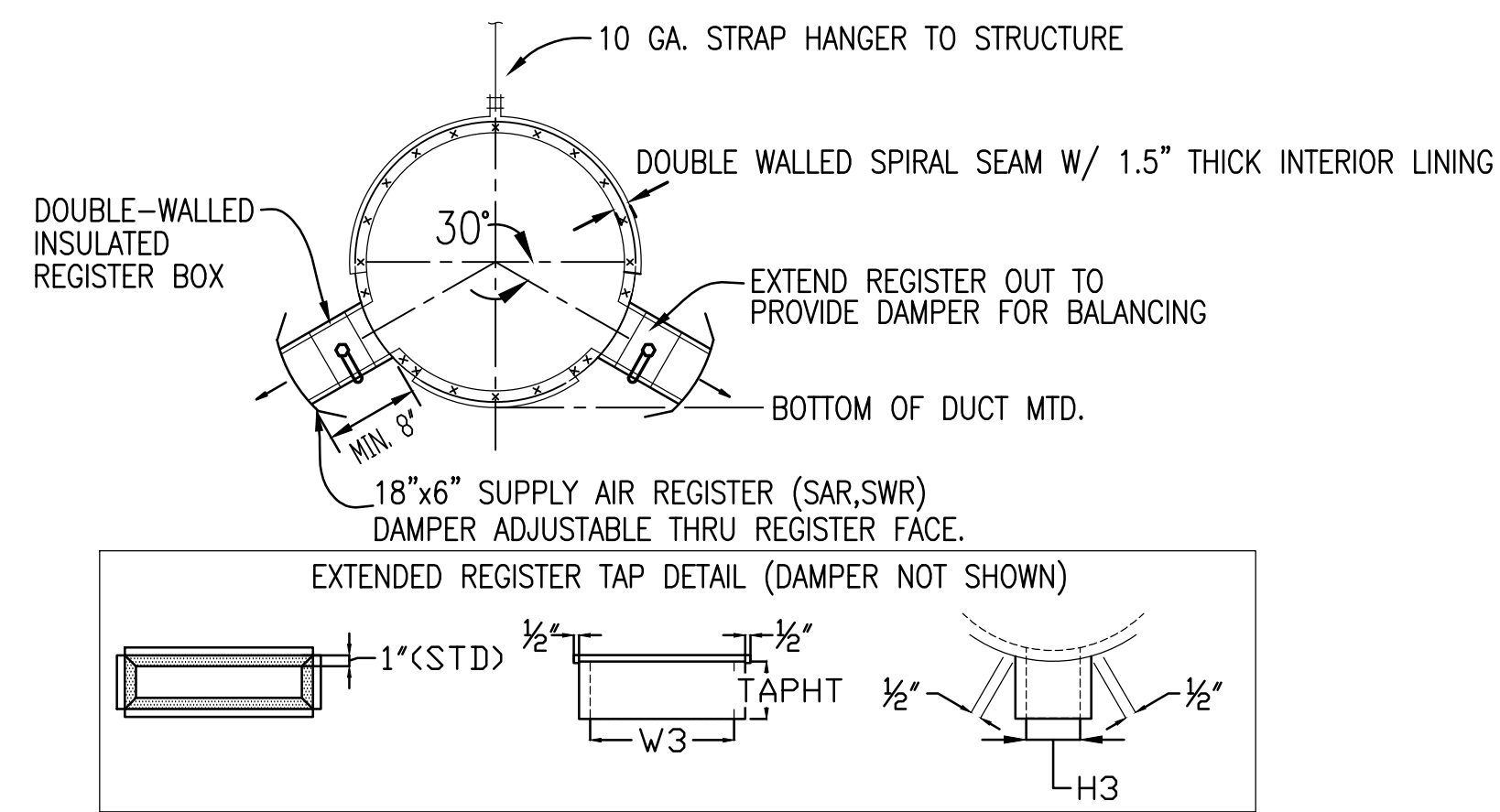
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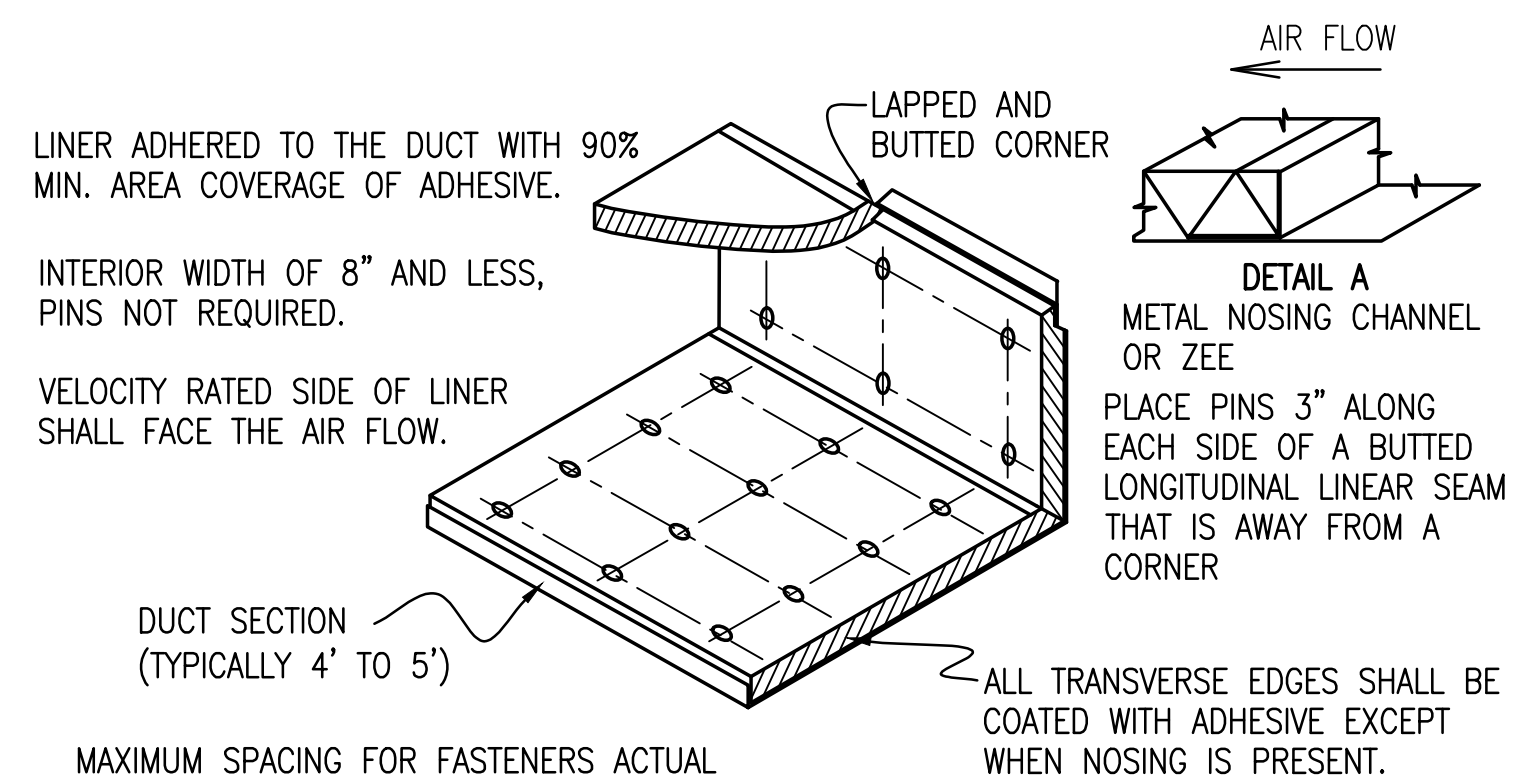
REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY MCGRAW				
PROJ. ENGR. PETERSON				
CONTENTS				
MECHANICAL DETAILS				
APPROVED	DATE			
96 CEG/CEN	14 JUNE 2024			
APPROVED	SCALE			
BASE CIVIL ENGINEER	AS SHOWN			
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 35 OF 50

INDEX NO.
M-501

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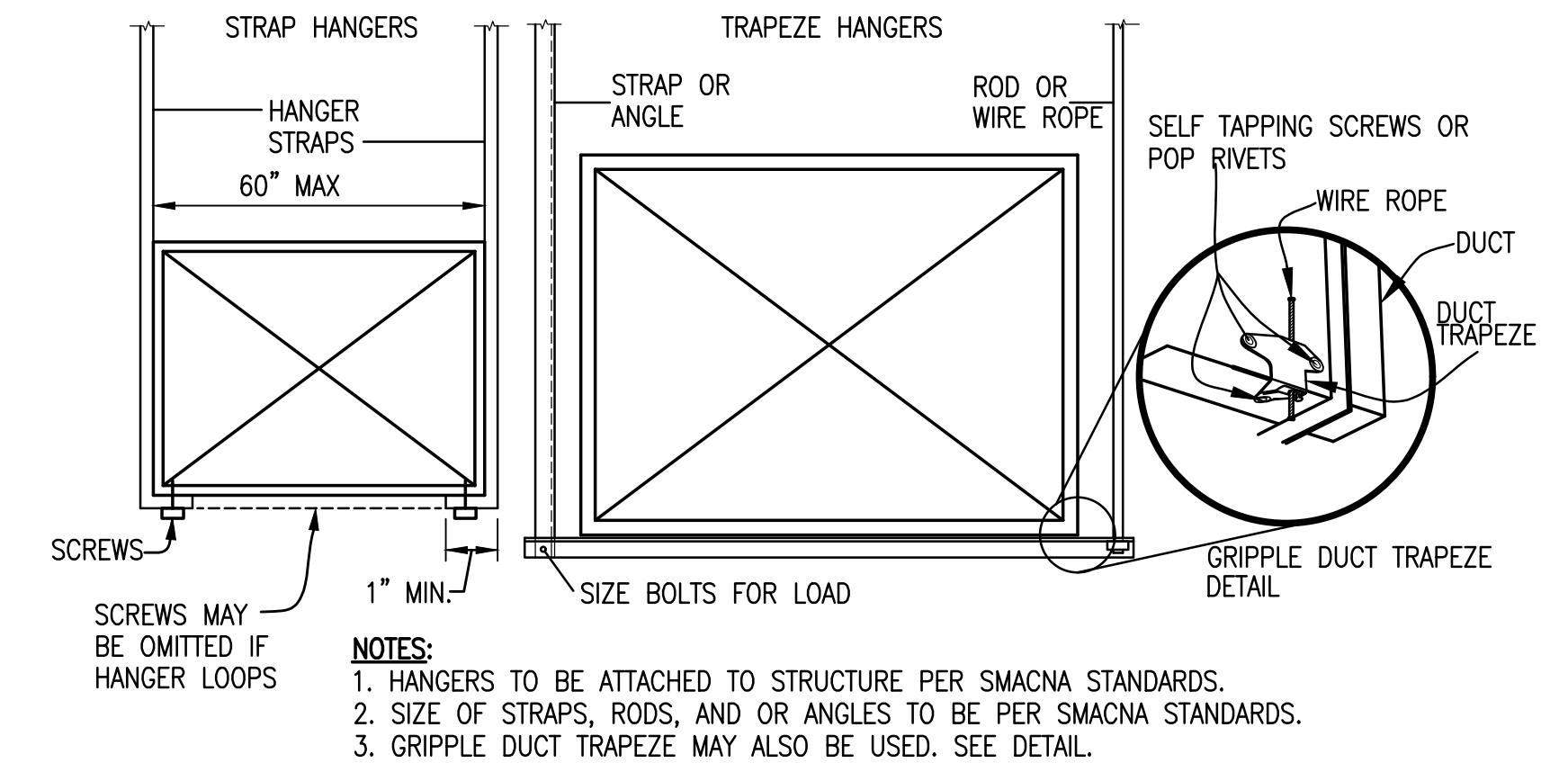


2 EXPOSED DUCTWORK DETAILS
NOT TO SCALE



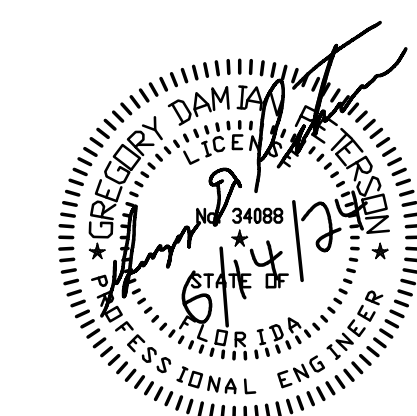
NOTE:
METAL NOSING MUST BE USED WHEREVER LINER IS PRECEDED BY UNLINED METAL; OTHERWISE WHEN VELOCITY EXCEEDS 4000 FPM USE METAL NOSING ON EVERY LEADING EDGE. NOSING MAY BE FORMED ON DUCT OR BE CHANNEL OR ZEE ATTACHED BY SCREWS, RIVETS, OR WELDS.

7 TYPICAL DUCT LINER DETAIL
NOT TO SCALE



5 DUCT HANGER DETAIL
NOT TO SCALE

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INDEX NO.
M-502

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY MCGRAW				
PROJ. ENGR. PETERSON				
CONTENTS				
MECHANICAL DETAILS				
APPROVED				DATE
96 CEG/CEN				14 JUNE 2024
APPROVED				SCALE
BASE CIVIL ENGINEER				AS SHOWN
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 36 OF 50

HEAT PUMP – AIR HANDLING UNIT SCHEDULE

MARK	AIR DATA			COOLING DESIGN CONDITIONS						HEATING DESIGN CONDITIONS				ELECTRICAL				UNIT FILTER DATA			MAXIMUM CABINET DIMENSIONS			BASIS OF DESIGN	REMARKS			
	TYPE	TOTAL AIR CFM	OUTSIDE AIR CFM	E.S.P. IN. W.G.	TOTAL MBH	SENSIBLE MBH	COIL ENT. DB °F	COIL ENT WB °F	MAX FACE VEL. FPM	MIN. EFFICIENCY EER	TOTAL MBH	AMBIENT °F	MIN. COP	ELECTRIC HEATER KW	HEATER STAGES	V/φ/Hz	BLOWER HP (MAX)	MCA	MOCP	SIZE/TYPE	EFFICIENCY	MAX. FACE VEL. FPM	H			W	D	MAKE
SSAHU-1	SZVAV	4,000	235	1	124	100	80	67	500	11	79	27	3	18.7	2	208/3/60	2	78	80	16"x25"x2" PLEATED T-AWAY	MERV 13	400	63-1/2"	61-1/8"	25-1/2"	TRANE	TWE1204B	1,2,3,4,5

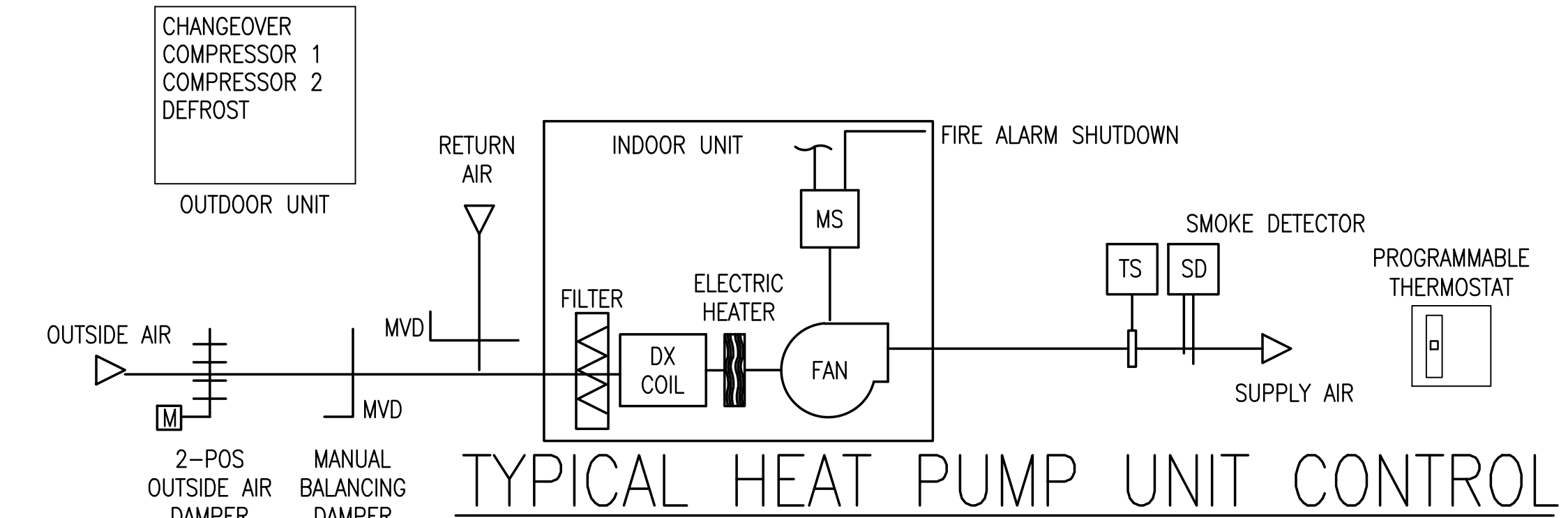
- NOTES:** SZVAV – SINGLE ZONE VARIABLE AIR VOLUME.
- PIPE ALL CONDENSATE FROM UNITS TO BUILDING EXTERIOR.
 - PROVIDE WITH CRANK CASE HEATER.
 - PROVIDE VARIABLE AIR VOLUME UNIT.
 - PROVIDE WITH DRY CONTACTS FOR OUTSIDE AIR DAMPER CONTROL.
 - LISTED ELECTRIC HEATER KW IS MAXIMUM ALLOWED.
 - PROVIDE WITH FACTORY UNIT MOUNTED DISCONNECT.
 - PROVIDE WITH SINGLE POINT CONNECTION.
 - PROVIDE WITH BAKED ENAMEL FINISH.
 - PROVIDE WITH 2" FILTER RACK.

GENERAL SCHEDULE NOTE:
ALL WATTAGE AND HORSEPOWER VALUES INDICATED ON THE SCHEDULES ARE THE MAXIMUM VALUES ALLOWED.

HEAT PUMP – CONDENSING UNIT SCHEDULE

MARK	DESIGN COOLING			DESIGN HEATING			REF TYPE	NUMBER OF REF. CIRCUITS	COMPRESSORS		FANS		ELECTRICAL				ELECTRICAL		REMARKS	
	TOTAL MBTU/HR	AMBIENT °F	MIN. EFF. ①	TOTAL MBTU/HR	AMBIENT °F	MIN. COP ②			NO.	RLA EACH	NO.	FLA EACH	VOLTS	PHASE	Hz	MCA	MOCP	MAKE		MODEL
SSHP-1	124	95.0	11.2 EER	78.9	27	3.4	R410A	2	2	16.5	1	4.3	208-230	3	60	42	50	TRANE	TWA1204D	1,2

- NOTES:**
- UNITS SHALL BE MOUNTED ON 6" THICK 3,500PSI CONCRETE EQUIPMENT PADS USING STAINLESS STEEL FASTENERS.
 - PROVIDE WITH CRANK CASE HEATER.
 - PROVIDE WITH LOW AMBIENT KIT
 - PROVIDE WITH DEFROST KIT.
 - PROVIDE WITH FACTORY DIPPED, NON-BRIDGING, CORROSION RESISTANT COIL COATING.
 - PROVIDE WITH BAKED ENAMEL FINISH.
 - PROVIDE WITH FACTORY INSTALLED HAIL GUARDS.
- ① AT ARI CONDITIONS OF 95°F AMB., 80°F D.B. AND 67°F W.B. COIL ENTERING
② AT ARI CONDITIONS OF 47°F D.B., 43°F W.B. AMB., 70°F D.B. COIL ENTERING



SEQUENCE OF OPERATION

OCCUPIED MODE: DURING THE SET OCCUPIED TIME FRAME, THE AIR HANDLING UNIT CONTROLLER SHALL OPEN THE OUTSIDE AIR DAMPER TO SUPPLY OUTSIDE AIR TO THE SPACE AND CONTROL SPACE CONDITIONS TO MEET OCCUPIED SETPOINTS.

SPACE COOLING: THE INDOOR UNIT'S FAN SHALL BE STARTED BY THE PROGRAMMABLE THERMOSTAT ACCORDING TO ITS OCCUPIED/UNOCCUPIED SCHEDULE AS PROGRAMMED INTO THE THERMOSTAT. WHEN ROOM TEMPERATURE RISES ABOVE THE COOLING SET POINT THE OUTDOOR UNIT SHALL ACTIVATE THE REVERSING VALVE AND STAGE BOTH COMPRESSORS AND VARY INDOOR UNIT BLOWER SPEED AS NEEDED TO SATISFY SPACE COOLING REQUIREMENTS.

SPACE HEATING: WHEN ROOM TEMPERATURE FALLS BELOW THE HEATING SET POINT, THE UNIT SHALL ACTIVATE THE REVERSING VALVE, STAGE BOTH COMPRESSORS AND VARY INDOOR UNIT BLOWER SPEED AS NEEDED TO SATISFY SPACE HEATING REQUIREMENTS. AUXILIARY ELECTRIC HEAT SHALL ENABLE IF HEAT PUMP CANNOT MAINTAIN SPACE HEATING SETPOINT.

UNOCCUPIED MODE: UNIT SHALL CLOSE THE OUTSIDE AIR DAMPER AND CONTROL SPACE CONDITIONS TO UNOCCUPIED SETPOINTS.

THE AIR HANDLER SHALL BE CONFIGURED TO SHUT DOWN IF SMOKE IS DETECTED.

FAN SCHEDULE

MARK	AREA SERVED	TYPE	CFM	E.S.P. IN. W.G.	MOTOR DATA				SOUND LEVEL SONES	CONTROL	BASIS OF DESIGN		REMARKS	
					POWER	FLA	RPM	DRIVE			ELEC. V/φ/Hz	MAKE		MODEL
EF-1	TOILET 103	CEF	70	0.375	33 W	0.313	859	DIRECT	115/1/60	1.5	OCC. SENSOR	COOK	GC-146	1,2,3,4

CEF – CEILING EXHAUST FAN

- NOTES:**
- PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.
 - ALL EXHAUST FANS SHALL BE INSTALLED WITH FLEX DUCT CONNECTION, VIBRATION ISOLATORS, AND FLEXIBLE CONDUIT.
 - FANS SHALL NOT BE IN CONTACT WITH ANY OTHER DUCT, PIPING, CONDUIT, OR STRUCTURAL MEMEBERS.
 - ALL DIRECT DRIVE FANS WITH MOTORS BETWEEN 1/2 AND 1 HP SHALL BE ECM AND PROVIDED WITH AN ADJUSTABLE ELECTRONIC SPEED CONTROLLER.

DAMPER SCHEDULE

MARK	AMCA LEAKAGE CLASS	BLADE ORIENTATION	LOCATION	SIZE	MANUFACTURER	MODEL No.
D-1	1A	ROUND	OA INTAKE	10"φ	RUSKIN	CDR-25

- NOTES:**
- PROVIDE WITH 24V ACTUATOR.
 - 2 POSITION DAMPER.

GRILLE/REGISTER/DIFFUSER SCHEDULE

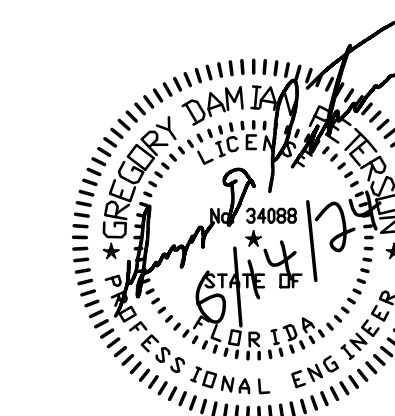
MARK	TYPE	USE	MOUNTING TYPE	CORE SIZE	MAX NC	BASIS OF DESIGN	REMARKS
SWG	SINGLE DEFLECTION BLADES IN SHORT DIMENSION, 3/4" BLADE SPACING.	SUPPLY	DUCT	18"x6"	20	PRICE 610	①
RAG	SINGLE DEFLECTION BLADES IN LONG DIMENSION, 3/4" BLADE SPACING, 35° FIXED DEFLECTION	RETURN	SURFACE	30"x30"	20	PRICE 80	①
TG	SIGHT PROOF TRANSFER GRILLE W/ CHEVRON STYLE BLADES	TRANSFER	SURFACE	16"x6"	20	PRICE ATG1	①

- NOTES:**
- ALUMINUM CONSTRUCTION

AHU CONTROL SETPOINT TABLE

CONTROL POINT:	SETPOINT:
OCCUPIED TIMES	MONDAY THROUGH FRIDAY 0700 HRS TO 1900 HRS
OCCUPIED ROOM COOLING SETPOINT	74°F
OCCUPIED ROOM HEATING SETPOINT	69°F
UNOCCUPIED ROOM COOLING SETPOINT	85°F
UNOCCUPIED ROOM HEATING SETPOINT	60°F

*ALL SETPOINTS SHALL BE USER ADJUSTABLE

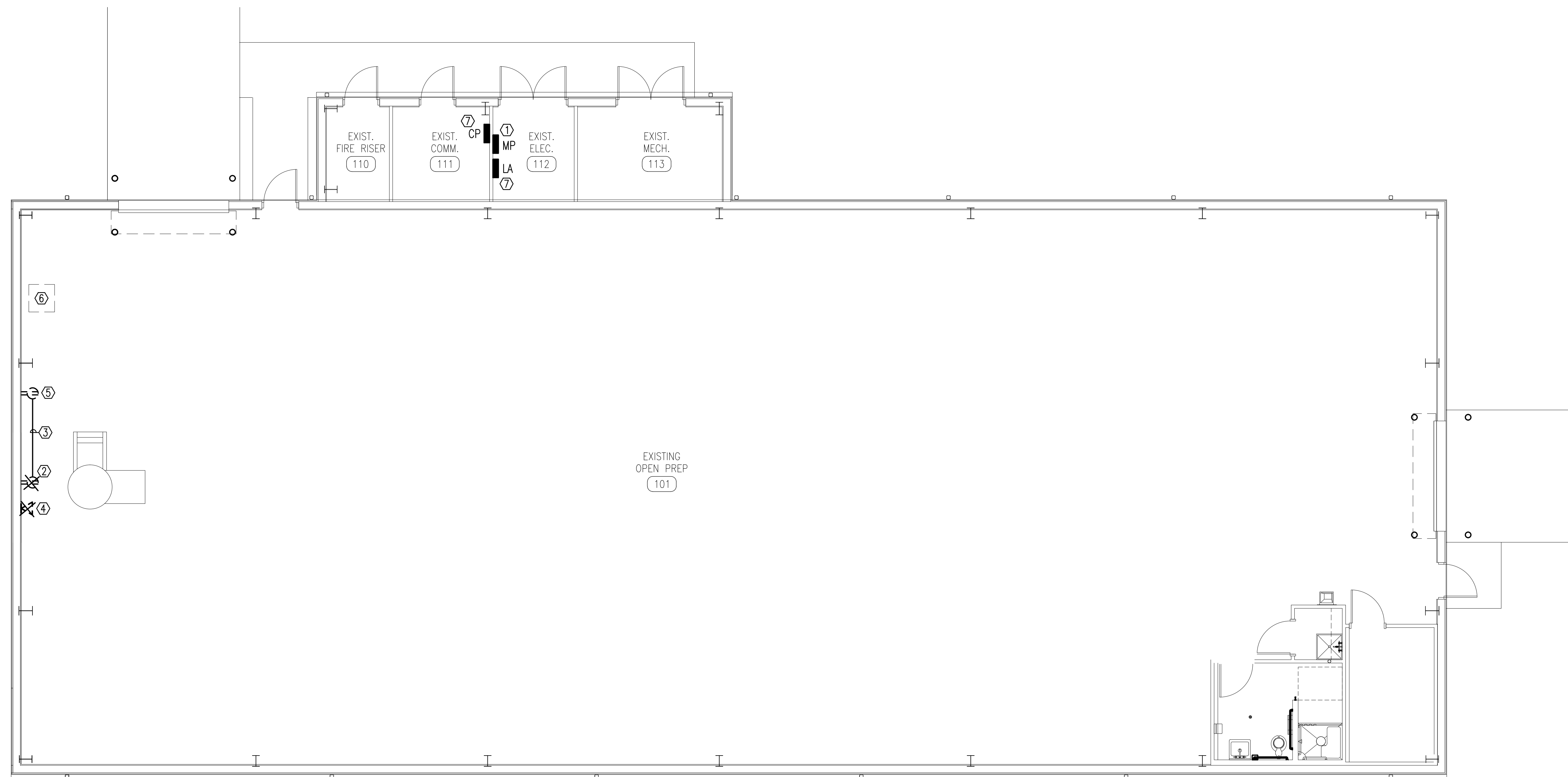


PETERSON ENGINEERING INC.

(PROF. ENG. #: 3600)
75 SOUTH "F" STREET
PENSACOLA, FLORIDA 32502
(850) 434-0513
PEI 23035

INDEX NO.
M-601

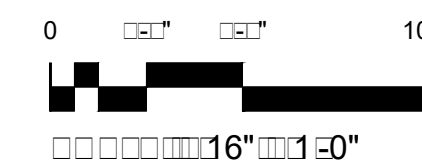
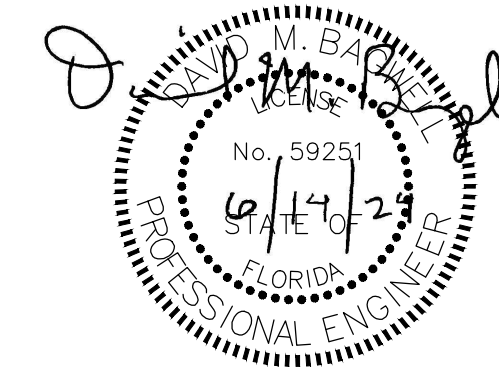
REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER				
EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE	96 CEG/CEN			
APPROVED	DATE 14 JUNE 2024			
CENM	SCALE AS SHOWN			
DRAWN BY MCGRAW	BASE CIVIL ENGINEER			
PROJ. ENGR. PETERSON	CONTENTS			
MECHANICAL SCHEDULES				
APPROVED		DATE		
96 CEG/CEN		14 JUNE 2024		
APPROVED		SCALE		
BASE CIVIL ENGINEER		AS SHOWN		
SPEC. NO. 24AC	PROJ. NO. FTFA23VH48	DRAWING NO. 24AC	FILE NO.	SHEET 37 OF 50



ELECTRICAL DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

KEYNOTES:

- ① EXISTING PANEL "MP" TO BE REPLACED IN SAME LOCATION. EXISTING FEEDER WIRING TO THE TRANSFORMER SHALL ALSO BE REPLACED. THE EXISTING CONDUIT TO THE TRANSFORMER SHALL REMAIN. SEE NEW WORK POWER PLAN SHEET E-101 KEYNOTE 1 FOR ADDITIONAL INFORMATION. FOR EACH BRANCH CIRCUIT IN THE PANEL, REMOVE WIRING (CONDUIT TO REMAIN) TO THE FIRST ELECTRICAL COMPONENT OF THE CIRCUIT. THE REMAINING ELECTRICAL WIRING DOWNSTREAM OF THE BRANCH CIRCUIT FIRST ELECTRICAL COMPONENT SHALL REMAIN. THE NEW WORK PHASE SHALL PROVIDE NEW WIRING FROM THE NEW PANEL TO THE FIRST ELECTRICAL COMPONENT. THE CONTRACTOR SHALL TEST THAT ALL DOWNSTREAM DEVICES OF THE CIRCUIT ARE ENERGIZED.
- ② REMOVE EXISTING DUPLEX RECEPTACLE.
- ③ REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO EXISTING RECEPTACLE THAT IS TO REMAIN.
- ④ REMOVE EXISTING COMMUNICATIONS OUTLET. REMOVE EXISTING CONDUIT AND WIRE BACK TO COMMUNICATIONS ROOM 111.
- ⑤ EXISTING RECEPTACLE TO REMAIN.
- ⑥ EXISTING EXHAUST FAN TO BE REMOVED BY MECHANICAL CONTRACTOR. REMOVE ASSOCIATED CONDUIT, WIRE AND DISCONNECT BACK TO PANEL MP-5/7.
- ⑦ EXISTING PANEL TO REMAIN. REPLACE THE EXISTING FEEDER WIRING TO NEW PANEL MP. REFER TO SHEET E-601 FOR ADDITIONAL INFORMATION.



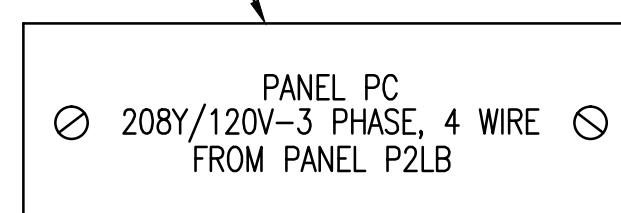
INDEX NO.
ED101

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE: _____		CONTENTS ELECTRICAL DEMOLITION PLAN		
SIGNATURE: _____		APPROVED 96 CEG/CEN		
APPROVED CENM		DATE 14 JUNE 2024		
DRAWN BY: DCC		APPROVED BASE CIVIL ENGINEER		
PROJ. ENGR. DMB		SCALE AS SHOWN		
SPEC. NO.	PROJ. NO. FTFA 23VH48	DRAWING NO.	FILE NO.	SHEET 38 OF 50

ELECTRICAL GENERAL NOTES

- ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, DISCONNECTS, ETC SHALL HAVE CUSTOM ENGRAVED NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE GOVERNMENT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
- COMPLY WITH ALL CODES, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE NATIONAL ELECTRIC CODE, NFPA, AND UFC PUBLICATIONS. OBTAIN ALL PERMITS REQUIRED BY THE GOVERNMENT.
- THE GENERAL CONTRACTOR SHALL NOTIFY THE GOVERNMENT IMMEDIATELY OF ANY CONFLICTS/DISCREPANCIES BETWEEN DISCIPLINES BEFORE ORDERING EQUIPMENT/MATERIALS.
- ALL CONDUCTORS INDICATED ON PLAN SHALL BE COPPER
- ALL ELECTRICAL WORK AND MATERIALS USED IN THIS PROJECT SHALL BE NEW, UNDERWRITERS' LABORATORIES (UL) LISTED AND LABELED, AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED. CONDUIT ROUTINGS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- THE CONDUIT SYSTEMS UTILIZED SHALL BE AS FOLLOWS:
 - BELOW GRADE - PVC SCHEDULE 40
 - TRANSITIONS FROM BELOW GRADE (WHICH SHALL INCLUDE A 'RSC' FACTORY 90 DEGREE ELBOW) TO ABOVE GRADE AND/OR THRU SLAB - RIGID GALVANIZED STEEL (RFS)
 - INTERIOR OF BUILDING CONDUITS LESS THAN 2" IN DIAMETER (ID) - ELECTRIC METALLIC TUBING (EMT) UNLESS NOTED OTHERWISE.
 - INTERIOR OF BUILDING CONDUITS 2" IN DIAMETER (ID) OR GREATER - RIGID STEEL CONDUIT (RSC) UNLESS NOTED OTHERWISE
 - EXTERIOR OF BUILDING EXPOSED ABOVE FINISHED GRADE - RIGID STEEL CONDUIT (RSC) UNLESS NOTED OTHERWISE
 - FINAL 36" OF CONDUIT CONNECTED TO MOTORS AND DRY TYPE TRANSFORMERS - LIQUID TIGHT FLEXIBLE CONDUIT (LFMC)
- ALL NEW CONDUITS RUN UNDERGROUND SHALL HAVE A MINIMUM BURIAL DEPTH OF 36" UNLESS NOTED OTHERWISE
- NEW CONDUITS LEAVING OR ENTERING BUILDING SHALL BE SEALED PER NEC TO PREVENT ENTRANCE OF MOISTURE
- PAINT ALL NEW EXPOSED SURFACE RUN CONDUITS TO MATCH COLOR OF SURFACE UPON WHICH THEY ARE PLACED.
- PROVIDE A NEW TYPED PANELBOARD DIRECTORY FOR ALL NEW AND EXISTING ELECTRICAL PANELBOARDS MODIFIED UNDER THE SCOPE OF THIS CONTRACT. MOUNT IN HOLDER BEHIND A TRANSPARENT PROTECTIVE COVERING. PANELBOARD DIRECTORIES SHALL INDICATE SOURCE OF FEEDER TO PANELBOARD (IE PANEL 'DP' FED FROM PANEL 'MDP'). HANDWRITTEN PANELBOARD DIRECTORIES IS UNACCEPTABLE. MARK ALL RECEPTACLES, LIGHTS, AND EMERGENCY EQUIPMENT WITH PANEL AND BREAKER #.
- WHERE CONFLICTS OCCUR ON ELECTRICAL DRAWINGS BETWEEN DRAWINGS, SPECIFICATIONS AND CODES, THE MOST STRINGENT REQUIREMENT THAT APPLIES SHALL BE ADHERED TO.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK AND SHALL IMMEDIATELY NOTIFY THE GOVERNMENT INSPECTOR OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST AND SHALL PERFORM THE WORK AS SHOWN AND SPECIFIED.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION AND SIZE OF EQUIPMENT WHICH ARE PROVIDED BY OTHERS AND CONNECTED BY ELECTRICAL.
- PROVIDE A 6"-0" MAXIMUM FLEXIBLE CONNECTION FROM EACH RECESSED LIGHTING FIXTURE TO NEW OUTLET BOX ABOVE CEILING.
- ALL NEW OUTLET BOXES FOR MOUNTING LIGHTING FIXTURES SHALL BE MINIMUM 4" SQUARE OR OCTAGONAL X 1 1/2" DEEP UNO.
- BUSBARS ARE TO BE PROVIDED FOR ALL POLES INDICATED ON PANEL SCHEDULE, REGARDLESS OF WHETHER POLES ARE SHOWN WITH CIRCUIT BREAKERS OR 'SPACE ONLY'
- ALL NEW PANELBOARDS AND SAFETY SWITCH DISCONNECTS SHALL BE FURNISHED WITH LAMINATED PLASTIC NAMEPLATES. NAMEPLATES SHALL BE MELAMINE PLASTIC .125" THICK, WHITE WITH BLACK CENTER CORE. SURFACE SHALL BE MATTE FINISHED. CORNERS SHALL BE SQUARE. ACCURATELY ALIGN LETTERING AND ENGRAVE INTO THE CORE. MINIMUM SIZE OF NAMEPLATES SHALL BE 1" X 2 1/2". LETTERING SHALL BE A MINIMUM OF .25" HIGH, NORMAL BLOCK STYLE. FASTEN NAMEPLATES WITH A MINIMUM OF TWO SHEET METAL SCREWS OR TWO RIVETS, PER NAMEPLATE.
- WORKING SPACE OF 36" FOR 208/120 VOLT SYSTEMS SHALL BE MAINTAINED IN FRONT OF ALL ELECTRICAL PANELS AND DEVICES
- SAFETY SWITCH DISCONNECTS SHALL BE MOUNTED AT 48" AFF TO CENTER AND SHALL HAVE 3'-0" MIN. OF WORKING SPACE IN FRONT OF DISCONNECT; COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT LOCATIONS.
- FINAL CONDUIT CONNECTIONS TO HEAT PUMPS, AIR HANDLERS, EXHAUST FANS, AND ELECTRIC WATER HEATERS SHALL BE LIQUID TIGHT FLEXIBLE METAL.
- ALL NEW PANELBOARDS, MAIN BREAKER WHERE STIPULATED, SHALL NOT BE ALLOWED IN BRANCH BREAKER SPACES. MAIN BREAKER ONLY WILL ONLY BE PERMITTED ABOVE OR BELOW THE BRANCH BREAKER AREA.
- ALL DEVICE COLORS SHALL BE SELECTED BY THE USER AND GOVERNMENT PRIOR TO ORDERING MATERIALS.
- USE OF SERIES RATED CIRCUIT BREAKERS IS NOT ALLOWED.
- USE OF PLUG-IN BREAKERS IS NOT ALLOWED.
- ALL NEW PANELBOARDS SHALL BE FURNISHED WITH DOOR-IN-DOOR OR HINGED FRONT COVER TYPE CONSTRUCTION.
- FURNISH 1/4" NYLON PULL ROPE IN ALL EMPTY CONDUITS FOR PULLING OF CONDUCTORS/CABLES.
- PROVIDE RIGID PLASTIC INSULATED BUSHING ON END OF ALL TELECOMMUNICATIONS AND LOW VOLTAGE CONDUIT STUBS.
- NEW WALL OUTLETS SHALL NOT BE INSTALLED BACK TO BACK.

EXAMPLE PANELBOARD LABEL



TYPICAL PANELBOARD LABELING DETAIL

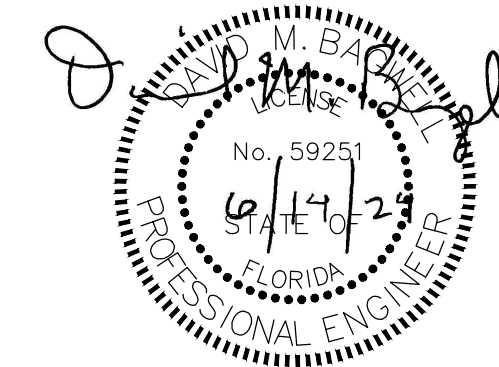
NOT TO SCALE

ENGRAVED PLASTIC TAG WITH 1/4" HIGH WHITE LETTERS ON BLACK BACKGROUND (RED BACKGROUND FOR EMERGENCY EQUIPMENT). TAG SHALL HAVE ALL EDGES BEVELED AND SMOOTH. SECURE TAG WITH 2 CHROME (STAINLESS STEEL FOR WET OR DAMP LOCATIONS) SCREWS.

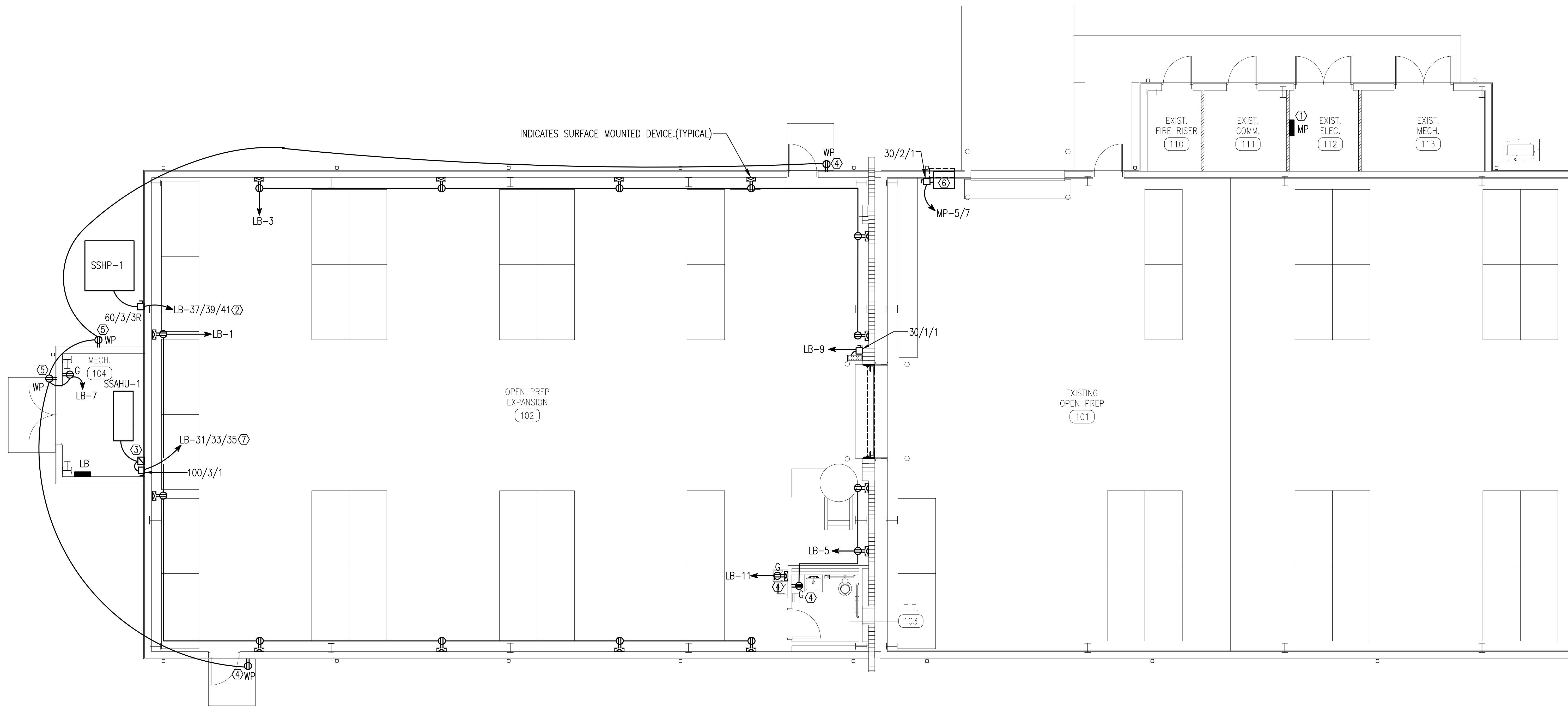
ELECTRICAL LEGEND

- CEILING OUTLETS**
- 'LT14' SURFACE MOUNTED 1' X 4' LED FIXTURE MARK 'LT14'
 - 'HB' PENDANT MOUNTED, HIGH BAY 1' X 4' LED FIXTURE MARK 'HB'
 - 'HBE' PENDANT MOUNTED, HIGH BAY 1' X 4' LED FIXTURE WITH EMERGENCY UNIT BATTERY PACK MARK 'HBE'
 - 'LS' PENDANT MOUNTED 4' LED STRIP MARK 'LS'
 - 'LSE' PENDANT MOUNTED 4' LED STRIP WITH EMERGENCY UNIT BATTERY PACK MARK 'LSE'
 - JUNCTION BOX
 - EXHAUST FAN
- WALL OUTLETS**
- DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 48" A.F.F. UNLESS NOTED OTHERWISE
 - QUADRAPLEX RECEPTACLE - 20 AMP, 125 VOLT, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFCI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 6" ABOVE COUNTER TO C/L
 - DUPLEX RECEPTACLE - 20 AMP, 125 VOLT, GFCI, 2 POLE, 3 WIRE GROUNDED TYPE, NEMA 5-20R. MOUNT 18" A.F.F. UNLESS NOTED OTHERWISE. PROVIDE WEATHERPROOF BOX FOR RECEPTACLE.
 - WALL MOUNTED EXIT LIGHT MOUNT APPROXIMATELY 6" ABOVE DOOR
 - GARAGE DOOR CONTROLLER; MOUNTED AT 48" A.F.F. INSTALL LOW VOLTAGE CONDUCTORS CONCEALED IN 1/2" CONDUIT TO MOTORIZED DOOR MOTOR; INSTALL PER MANUFACTURER'S RECOMMENDATIONS
 - WALL MOUNTED LED LIGHTING FIXTURE. MATCH EXISTING EXTERIOR LIGHT FIXTURE MOUNTING HEIGHT.
- MOTION SENSORS (INSTALL PER MANUFACTURERS RECOMMENDATIONS)**
- 48" AFF TO C/L; SEE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR DETAIL SHEET E-501
 - 360° CEILING MOUNTED HIGH BAY OCCUPANCY/VACANCY SENSOR WITH DUAL TECHNOLOGY. SENSORS SHALL BE COMPATIBLE WITH LOW VOLTAGE SWITCHES AND DIMMING CAPABILITIES.
- WALL SWITCHES (UNLESS OTHERWISE NOTED, MOUNT 48" A.F.F.)**
- A.C. TYPE, SINGLE POLE, 20 AMP, 120/277 VOLT
 - MOTOR RATED TOGGLE SWITCH, 20 AMP SPEC GRADE, SINGLE POLE, RATED TO ONE HORSEPOWER. WITH OVERLOAD PROTECTION
 - LOW VOLTAGE SWITCH WITH ON/OFF AND UP/DOWN DIMMING OPTIONS
- PANELS AND POWER**
- 120/208 VOLT, 60HZ PANELBOARD; TALLEST BREAKER SHALL NOT BE HIGHER THAN 6'-7" A.F.F.
 - NON-FUSIBLE DISCONNECT SWITCH; XX/YY/ZZ WHERE X INDICATES AMPERAGE, Y INDICATES # OF POLES, AND Z INDICATES NEMA RATING
 - MOTOR STARTER
- BRANCH CIRCUITING**
- RUN WIRING AND CONDUIT UNDER FLOOR OR GRADE. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 1/2" C
 - RUN WIRING AND CONDUIT IN CEILING OR WALLS. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 1/2" C
 - HOMERUN TO PANEL. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 1/2" C; 3 #12, 1 #12 GROUND - 1/2" C; 4 #12, 1 #12 GROUND - 1/2" C; ETC. AS PER NEC. LETTERS AND NUMERALS INDICATE PANEL AND CIRCUIT NUMBER.
 - LIQUID-TIGHT FLEXIBLE CONDUIT CONNECTION WITH WIRING. ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 1/2" C
 - SURFACE MOUNTED WIRING AND CONDUIT; RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES ANY CIRCUIT WITHOUT FURTHER IDENTIFICATION INDICATES 2 #12, 1 #12 GROUND - 1/2" C
- MISCELLANEOUS**
- WEATHERPROOF
 - UNLESS NOTED OTHERWISE
 - GROUND FAULT CIRCUIT INTERRUPTER
 - CONDUIT
 - AMPS
 - WIRE
 - GROUND
 - MAIN BREAKER
 - POLE
 - UNIVERSAL
 - ABOVE FINISH FLOOR
 - EXHAUST FAN
 - CENTERLINE
 - INDICATES SURFACE MOUNTING OF DEVICE

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE	TITLE			
SIGNATURE	CONTENTS			
APPROVED	ELECTRICAL LEGEND, GENERAL NOTES			
CENM	APPROVED			
DRAWN BY DCC	96 CEG/CEN			
PROJ. ENGR. DMB	DATE 14 JUNE 2024			
APPROVED		SCALE		
BASE CIVIL ENGINEER		AS SHOWN		
SPEC. NO.	PROJ. NO. FTFA 23VH48	DRAWING NO.	FILE NO.	SHEET 39 OF 50



INDEX NO.
E-001

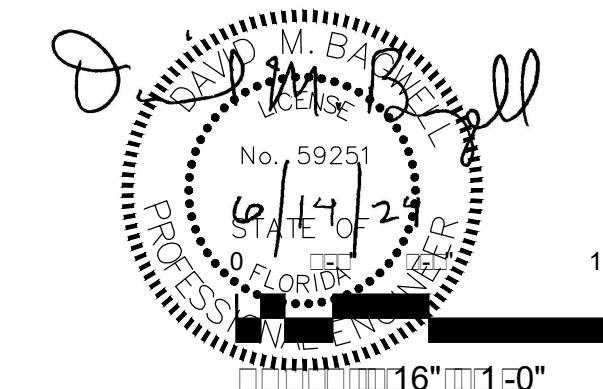


NEW WORK POWER PLAN

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

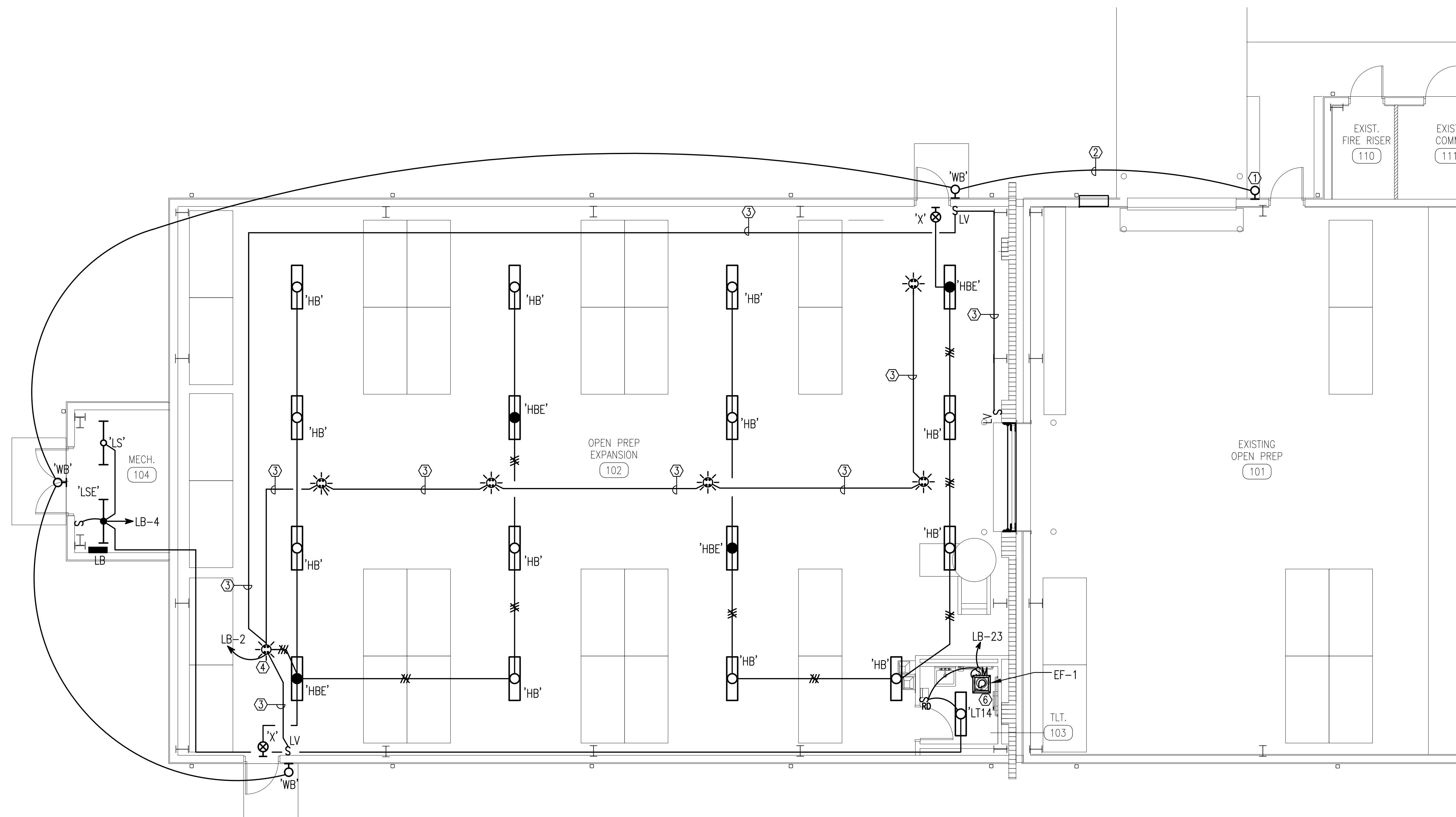
KEYNOTES:

- ① REPLACE PANEL "MP" WITH NEW 54 SPACE, 400 AMP, 208Y/120V, 3 PHASE, 4 WIRE MAIN BREAKER PANELBOARD IN SAME LOCATION. PROVIDE ADDITIONAL NEW CONDUIT, IF REQUIRED, TO CONNECT REPLACEMENT PANELS TO THE EXISTING CONDUITS ASSOCIATED WITH THE PANELS BEING REPLACED. FOR EACH BRANCH CIRCUIT, PROVIDE NEW WIRING FROM THE NEW PANEL BREAKER TO THE FIRST ELECTRICAL COMPONENT. THE CONTRACTOR SHALL TEST THAT ALL DOWNSTREAM DEVICES OF THE FIRST ELECTRICAL COMPONENT ARE ENERGIZED.
- ② 3#6, 1#10 GND IN 1" C.
- ③ NEW 2HP RATED NEMA SIZE 0 208V, 3 PHASE MOTOR STARTER.
- ④ GFCI RECEPTACLE SHALL BE NON-FEED THROUGH TYPE.
- ⑤ GFCI RECEPTACLE SHALL BE FEED THROUGH TYPE.
- ⑥ RELOCATED EXHAUST FAN MOUNTED 16' A.F.F. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ⑦ 4#1, 1#8 GND IN 2" C.



INDEX NO.
E-101

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE		
DATE: _____		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
SIGNATURE: _____				
APPROVED: _____				
CENM: _____				
DRAWN BY: DCC		CONTENTS		
PROJ. ENGR. DMB		NEW WORK POWER PLAN		
APPROVED: _____		DATE		14 JUNE 2024
APPROVED: _____		SCALE		AS SHOWN
BASE CIVIL ENGINEER		SPEC. NO.		
PROJ. NO. FTFA 23VH48		DRAWING NO.		
FILE NO.		SHEET 40		OF 50

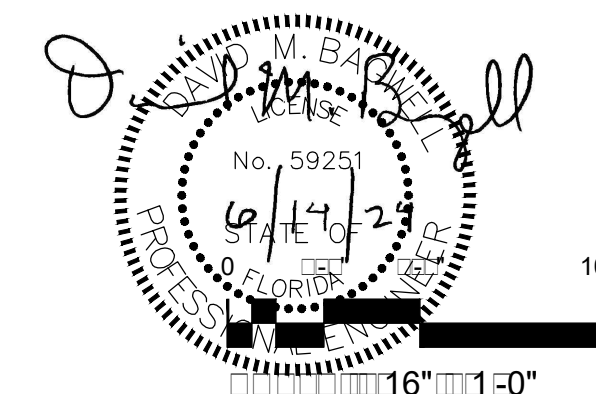


LOW VOLTAGE SWITCH/LIGHTING CONTROLS NOTE:
 CONTRACTOR SHALL INSTALL LOW VOLTAGE WIRING FOR ALL OCCUPANCY SENSOR AND LOW VOLTAGE SWITCH CONTROLS PER LIGHTING CONTROLS SHOP DRAWINGS. PROVIDE LOW VOLTAGE SWITCH WITH ON/OFF CONTROL AND ADDITIONAL DIMMING SETTING AT 50%.

NEW WORK LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

KEYNOTES:

- ① EXISTING WALL MOUNTED LIGHT FIXTURE TO REMAIN. EXISTING EXTERIOR CIRCUIT LOAD IS 1.5 AMPS ON CIRCUIT LA-16.
- ② INSTALL 2#12, 1#12 GND IN 1/2" C TO EXISTING EXTERIOR LIGHTING CIRCUIT LA-16. EXISTING CIRCUIT CONSISTS OF FIVE EXTERIOR LIGHTS. EACH EXISTING LIGHT FIXTURE IS 40 WATTS.
- ③ FOR BIDDING PURPOSES PROVIDE A CAT 6 CABLE IN 1" CONDUIT. CONNECT TO THE LIGHTING CONTROLS DEVICE PER THE MANUFACTURERS REQUIREMENTS. CONTRACTOR SHALL PROVIDE THE EXACT LOW VOLTAGE WIRING TYPE AND QUANTITY AS REQUIRED BY THE PRODUCT BEING PROVIDED DURING CONSTRUCTION.
- ④ PROVIDE ROOM CONTROLLER TO INTEGRATE LOW VOLTAGE OCCUPANCY/VACANCY SENSORS AND SWITCHES TO LIGHT FIXTURES.
- ⑤ EXHAUST FAN MOUNTED FLUSH IN CEILING 9' A.F.F.



INDEX NO.
E-102

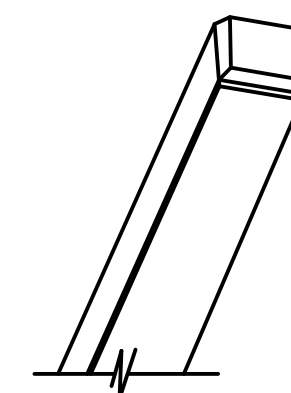
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BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT DATE: _____ SIGNATURE: _____ APPROVED: _____ CENM: _____ DRAWN BY: DCC PROJ. ENGR: DMB		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
		CONTENTS NEW WORK LIGHTING PLAN		
		APPROVED 96 CEG/CEN APPROVED BASE CIVIL ENGINEER		DATE 14 JUNE 2024 SCALE AS SHOWN
SPEC. NO.	PROJ. NO. FTFA 23VH48	DRAWING NO.	FILE NO.	SHEET 41 OF 50

FEATURES
LAMP TYPE: LED

OPTIONS
PROFILE: 3000 LUMENS (LS)
WITH EMERGENCY UNIT BATTERY PACK (LSE)
NOM. DIMENSIONS (5" W X 4" H X 4' L)

GENERAL DESCRIPTION
HOUSING: DIE-FORMED COLD ROLLED STEEL, DESIGNED FOR INDIVIDUAL OR CONTINUOUS ROW MOUNTING
REFLECTORS: GLOSS WHITE
ELECTRICAL: 120/277 VOLT DRIVER
FINISH: WHITE ENAMEL OR POLYESTER POWDER COAT

LED STRIP LIGHT MARK 'LS' & 'LSE'
NOT TO SCALE



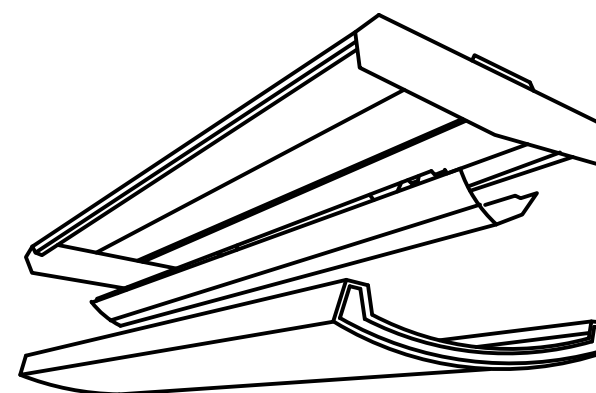
FEATURES
LAMP TYPE: LED
SHIELDING: ACRYLIC PRISMATIC LENS

PROFILE: 3000 LUMENS (LT14)
NOM. DIMENSIONS (10" W X 4' L X 4 1/2" D)

GENERAL DESCRIPTION
HOUSING: 0.026" MIN. THICKNESS FORMED STEEL HOUSING, BAKE WHITE ENAMEL FINISH. 85% MIN. REFLECTANCE (INTERIOR). ENTIRE HOUSING SHALL BE PAINTED WHITE.
MOUNTING: CEILING SURFACE
LENS: CLEAR EXTRUDED 100% ACRYLIC HAVING A MINIMUM OVERALL (BOTTOM OF LENS) THICKNESS OF 0.10 INCHES WITH A MAXIMUM PRISM PENETRATION DEPTH OF 0.07 INCHES (0.055 INCH MINIMUM OVERALL SIDE THICKNESS) AND WELDED END PLATES TO FORM A SINGLE PIECE, 5 SIDED BASKET.

ELECTRICAL: 120/277 VOLT DRIVER

**LED SURFACE MOUNTED
WRAP AROUND MARK 'LT14'**
NOT TO SCALE

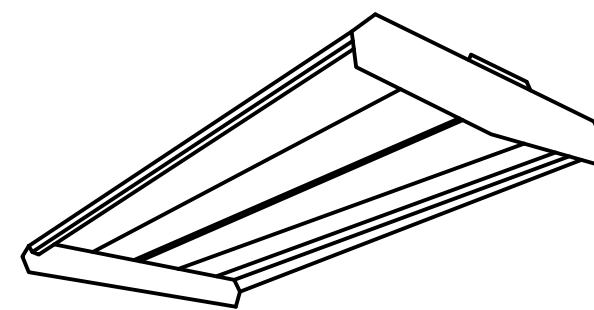


FEATURES
LAMP TYPE: LED
SHIELDING: NONE

PROFILE: 10000 LUMENS (HB)
WITH EMERGENCY UNIT BATTERY PACK (HBE)
NOM. DIMENSIONS (14" W X 2' L X 4 1/2" D)

GENERAL DESCRIPTION
HOUSING: STEEL/ALUMINUM CONSTRUCTION
MOUNTING: CEILING SURFACE
LENS: CLEAR POLYCARBONATE LENS
ELECTRICAL: 120/277 VOLT DRIVER

**LED SURFACE MOUNTED
WRAP AROUND MARK 'HB' & 'HBE'**
NOT TO SCALE



LIGHTING CONTROLS SEQUENCE OF OPERATIONS	
ROOM TYPE	SEQUENCE OF OPERATIONS
WAREHOUSE	1. MANUAL ON 2. AUTOMATICALLY REDUCE LIGHT OUTPUT BY AT LEAST 50% AFTER 20 MINUTES OF VACANCY OR AUTOMATIC ON TO 50% OF GENERAL LIGHTING POWER 3. SCHEDULED FULL OFF WHEN BUILDING IS SCHEDULED TO BE VACANT UNLESS OCCUPANTS ENTER THE BUILDING, THEN USE MANUAL CONTROL AND OCCUPANCY/VACANCY SENSOR CRITERIA
MECHANICAL ROOM	1. MANUAL ON 2. MANUAL OFF
RESTROOMS	1. AUTOMATIC ON TO FULL DESIGN LIGHTING POWER WHEN OCCUPANT ACTIVITY IS SENSED 2. AUTOMATIC OFF WITHIN 20 MINUTES OF VACANCY.

** LIGHTING CONTROLS SHALL BE IN ACCORDANCE WITH UFC 3-530-01

LIGHTING CONTROL SEQUENCE NOTES:
CONTRACTOR TO ENGAGE THE MANUFACTURER TO PROVIDE FULL SHOP DRAWINGS THAT INCLUDE WIRING, CONTROLS AND LIGHT FIXTURES. INSTALL PER THE MANUFACTURER SHOP DRAWINGS.

FEATURES
LAMP TYPE: LED
MOUNTING: UNIVERSAL
TYPE 'X' IS WALL MOUNTED ABOVE DOOR
SHIELDING: FLAT SHEET ACRYLIC
LETTERS: RED

NOM. DIMENSIONS (11 3/8"W X 7 7/8"H X 1 3/4"D)

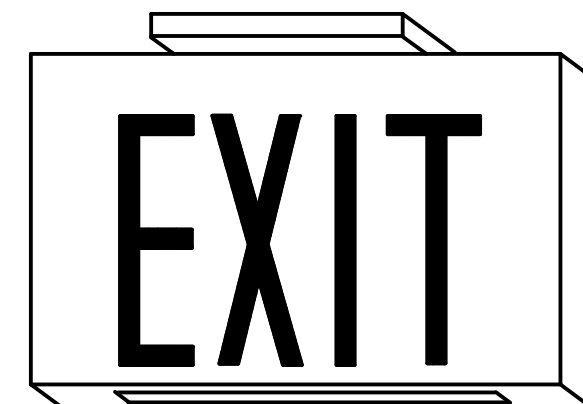
GENERAL DESCRIPTION
HOUSING: DIE-CAST ALUMINUM. WHITE FINISH. HARDWARE FINISH TO MATCH HOUSING FINISH. 152 mm (6") H LETTERS WITH 19 mm (3/4") STROKE. DIRECTIONAL ARROWS AS REQUIRED.

ELECTRICAL: 120/277 VOLTS WITH BACKUP BATTERY

FINISH: WHITE

OTHER: MINIMUM BRIGHTNESS 20 CD/SQ METER ON FACE OF SIGN. SELF-TEST DIAGNOSTICS

LED STENCIL FACE EXIT SIGN MARK 'X'



FEATURES
LAMP TYPE: LED/75 CRI
SHIELDING: FLAT GLASS

PROFILE: 4000 LUMENS (WB)
NOM. DIMENSIONS (16" W X 9" L X 12 1/8" D)

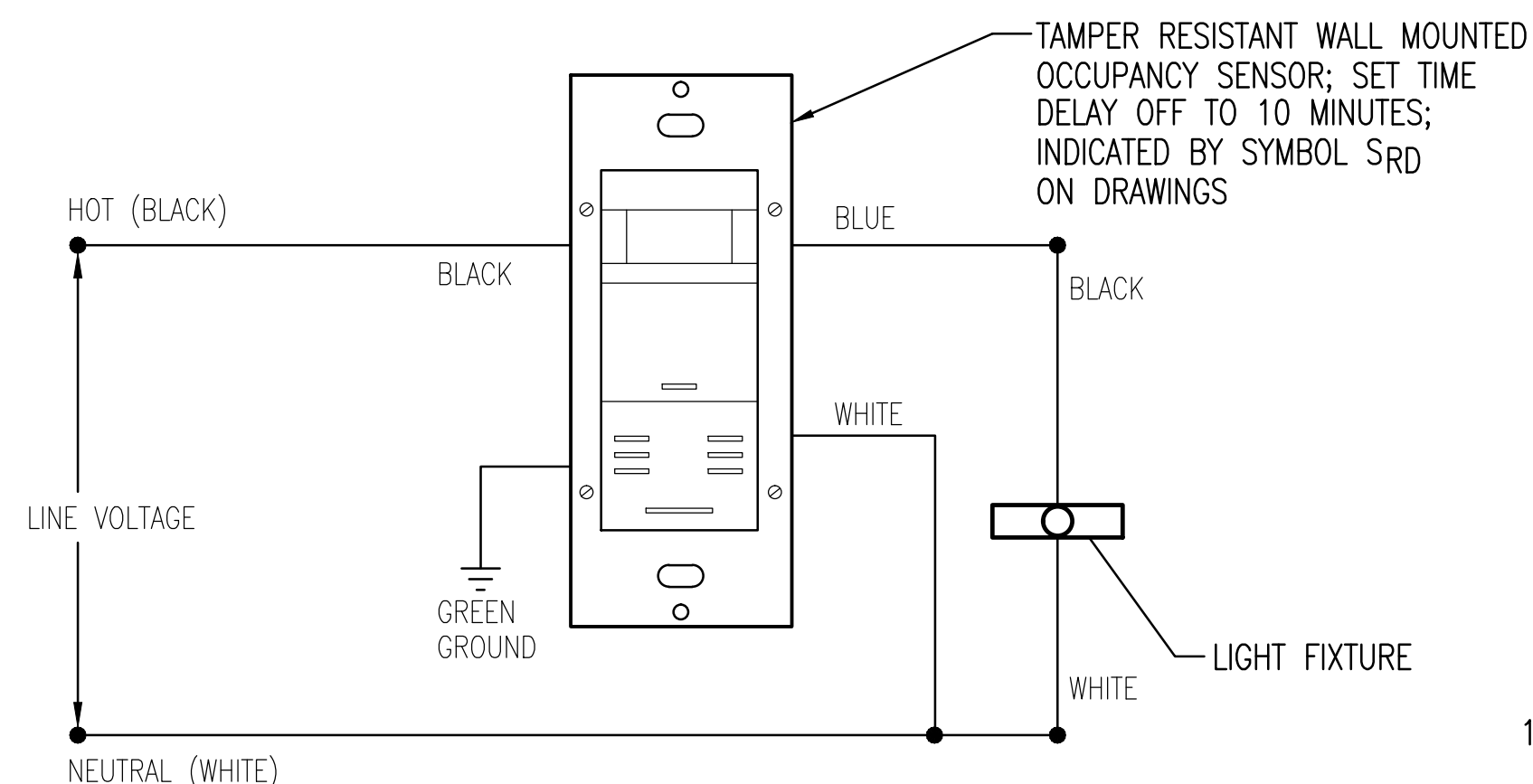
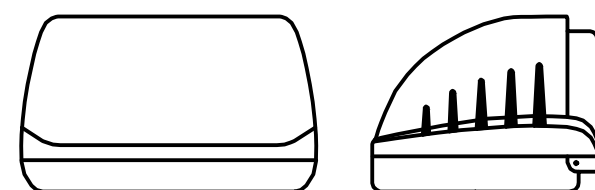
GENERAL DESCRIPTION
HOUSING: DECORATIVE DIE CAST ALUMINUM HOUSING AND DOOR. POWDER PAINT DARK BRONZE FINISH.

MOUNTING: WALL MOUNT

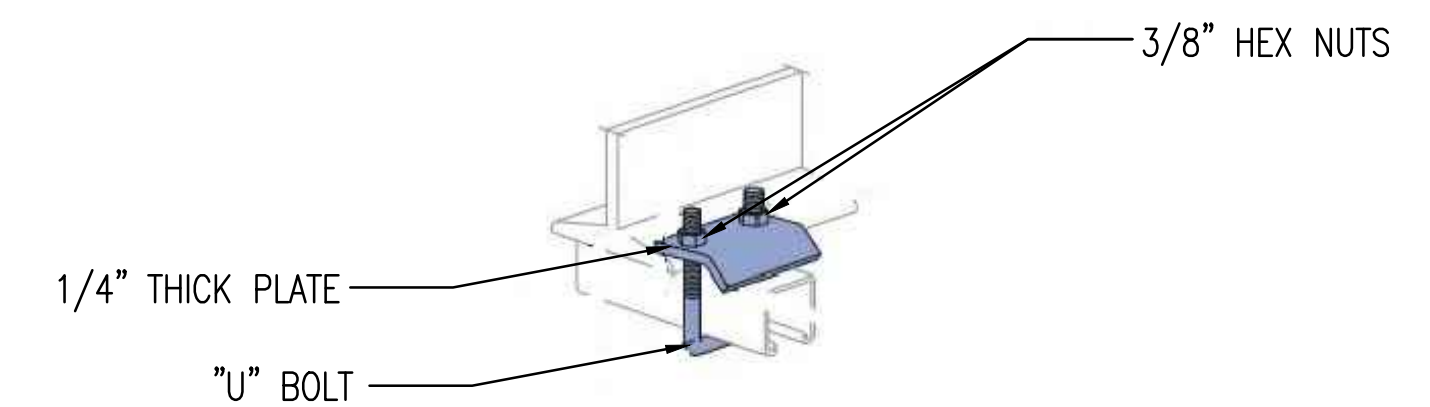
ELECTRICAL: 120/277 VOLT DRIVER

OTHER: EMERGENCY BATTERY PROVIDING 90 MINUTES AT 615 LUMENS

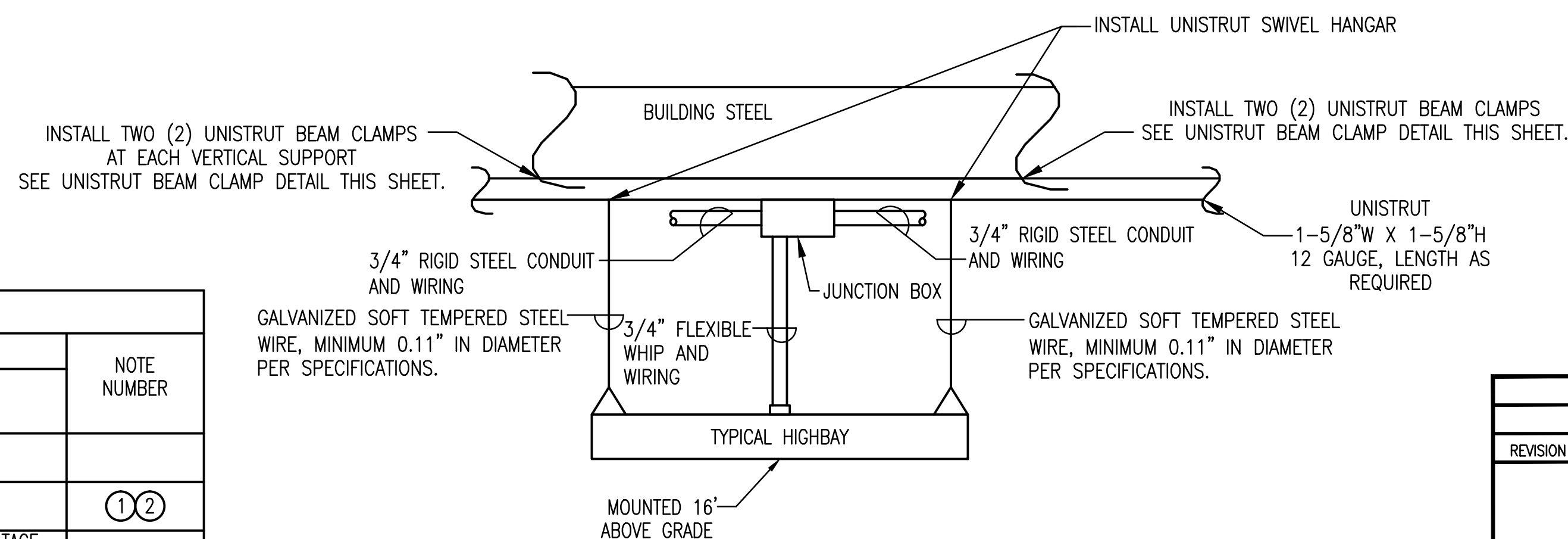
LED WALL PACK MARK 'WB'
NOT TO SCALE



**WALL MOUNTED DUAL TECHNOLOGY
OCCUPANCY SENSOR DETAIL**
NOT TO SCALE



UNISTRUT BEAM CLAMP DETAIL
NOT TO SCALE

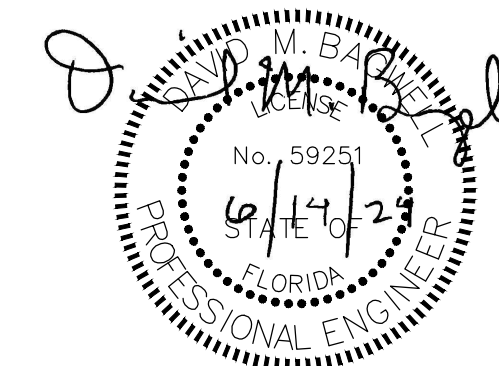


TYPICAL HIGHBAY FIXTURE DETAIL
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE						
CONTRACT DRAWING FIXTURE MARK	LAMP TYPE	FIXTURE		MOUNTING HEIGHT	DESCRIPTION	NOTE NUMBER
		MAX. WATT	VOLT			
LS	LED	25	UNV(120/277)	12' AFF	PENDANT MOUNTED 4' LED STRIP, ELECTRONIC BALLAST, UNIVERSAL VOLTAGE, 3000 LUMENS MINIMUM.	
LSE	LED	25	UNV(120/277)	12' AFF	PENDANT MOUNTED 4' LED STRIP, ELECTRONIC BALLAST WITH EMERGENCY BATTERY BACKUP, UNIVERSAL VOLTAGE, 3000 LUMENS MINIMUM.	①②
LT14	LED	25	UNV(120/277)	9' AFF	GYPSUM WALLBOARD CEILING SURFACE MOUNTED 1'X4' LED FIXTURE, ELECTRONIC BALLAST, UNIVERSAL VOLTAGE, 3000 LUMENS MINIMUM.	
HB	LED	70	UNV(120/277)	16' AFF	PENDANT MOUNTED 1'X4' LED HIGH BAY FIXTURE, ELECTRONIC BALLAST, UNIVERSAL VOLTAGE, 10000 LUMENS MINIMUM.	
HBE	LED	70	UNV(120/277)	16' AFF	PENDANT MOUNTED 1'X4' LED HIGH BAY FIXTURE, ELECTRONIC BALLAST, UNIVERSAL VOLTAGE, ELECTRONIC BALLAST WITH EMERGENCY BATTERY BACKUP, 10000 LUMENS MINIMUM.	①②
X	LED	10	UNV(120/277)	1' ABOVE DOOR	LED 'EXIT' LIGHT, WALL MOUNTED ABOVE DOOR, WHITE THERMOPLASTIC HOUSING WITH RED LETTERING, UNIVERSAL MOUNTING, SELF TEST/SELF DIAGNOSTIC	
WB	LED	40	UNV(120/277)	8' AFF	LED WALL PACK, MOUNTED AT 12', ELECTRONIC BALLAST, UNIVERSAL VOLTAGE, ELECTRONIC BALLAST, 4000 LUMENS MINIMUM.	

① PROVIDE WITH BATTERY BACK UP. CONNECT SUCH THAT FIXTURE IS CONTROLLED BY SWITCH BUT LOSS OF POWER SHALL CAUSE BATTERY/LAMPS TO ENERGIZE REGARDLESS OF SWITCH POSITION

② PROVIDE WITH MINIMUM 10 WATT EMERGENCY DRIVER

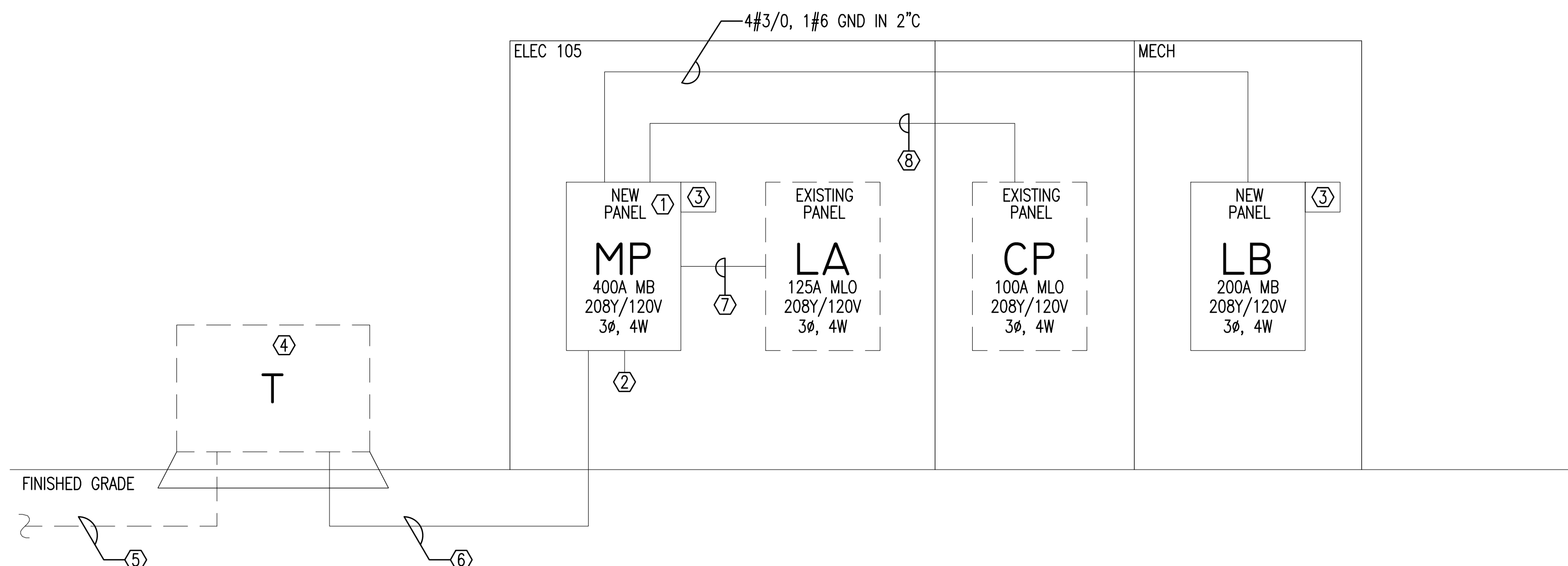


REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	DCC			
PROJ. ENGR.	DMB			
CONTENTS		LIGHTING FIXTURE SCHEDULE, DETAILS		
APPROVED	96 CEG/CEN	DATE	14 JUNE 2024	
APPROVED	BASE CIVIL ENGINEER	SCALE	AS SHOWN	
SPEC. NO.	PROJ. NO. FTFA 23VH48	DRAWING NO.	FILE NO.	SHEET 42 OF 50

INDEX NO.
E-501

MEDIUM VOLTAGE WORK

TRANSFORMER SHUTDOWN, SHALL BE PREFORMED BY CHELCO. GENERAL CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH SHUTDOWN. COORDINATE WITH CHELCO FOR ALL COST AND REQUIREMENTS PRIOR TO SUBMITTING BID. GC SHALL HIRE CHELCO TO PERFORM ALL REQUIRED PRIMARY WORK.



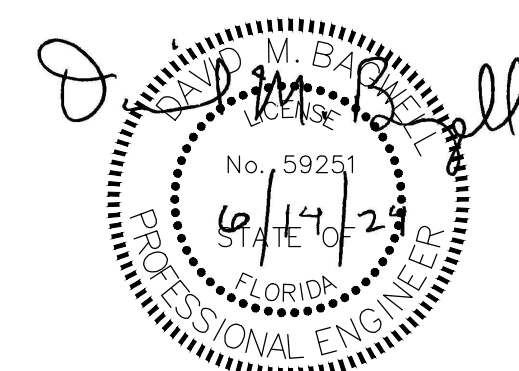
POWER RISER DIAGRAM
NOT TO SCALE

KEYNOTES:

- ① REPLACE PANEL 'MP' WITH NEW 54 SPACE, 400 AMP, 208Y/120V, 3 PHASE, 4 WIRE MAIN BREAKER PANELBOARD IN SAME LOCATION. EXISTING CIRCUITS SHALL REMAIN AND BE RECONNECTED TO NEW PANEL 'MP'.
- ② EXISTING SERVICE GROUND IS TO REMAIN. CONTRACTOR SHALL DISCONNECT FROM EXISTING PANEL AND RECONNECT TO NEW PANEL.
- ③ NEW SURGE SUPPRESSOR INSTALL PER MANUFACTURER'S RECOMMENDATION AND SPECIFICATIONS.
- ④ EXISTING 150KVA PAD MOUNTED TRANSFORMER, 5.75%Z, 12,470Y/7,200-208Y/120V TO REMAIN.
- ⑤ EXISTING PRIMARY WIRE AND CONDUIT TO REMAIN.
- ⑥ REMOVE EXISTING 4#600 MCM WIRE FROM EXISTING 4" CONDUIT. EXISTING CONDUIT SHALL REMAIN. INSTALL NEW 4#600 MCM IN EXISTING 4" CONDUIT TO NEW PANEL MP.
- ⑦ REMOVE EXISTING 4#1/0, 1#6 GND FROM EXISTING 2" CONDUIT. EXISTING CONDUIT SHALL REMAIN. INSTALL NEW 4#1/0, 1#6 GND IN EXISTING 2" CONDUIT TO NEW PANEL MP.
- ⑧ REMOVE EXISTING 4#1, 1#8 GND FROM EXISTING 2" CONDUIT. EXISTING CONDUIT SHALL REMAIN. INSTALL NEW 4#1, 1#8 GND IN EXISTING 2" CONDUIT TO NEW PANEL MP.

REPLACED PANELBOARD NOTES:
1. PROVIDE ADDITIONAL NEW CONDUIT, IF REQUIRED, TO CONNECT REPLACEMENT PANELS TO THE EXISTING CONDUITS ASSOCIATED WITH THE PANELS BEING REPLACED.
2. PROVIDE NEW BRANCH CIRCUIT WIRING BETWEEN PANELS BEING REPLACED AND THE FIRST ELECTRICAL COMPONENT THAT THE BRANCH CIRCUITS COME TO. FOR EACH BRANCH CIRCUIT IN A REPLACED PANEL, THE CONTRACTOR SHALL ESTIMATE A 100' DISTANCE FROM THE PANEL TO THE FIRST DEVICE.

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE: _____		CONTENTS NEW WORK RISER		
SIGNATURE: _____		APPROVED 96 CEG/CEN		
APPROVED CENM		DATE 14 JUNE 2024		
DRAWN BY: DCC		APPROVED		
PROJ. ENGR. DMB		SCALE AS SHOWN		
INDEX NO. E-601		SPEC. NO.		
PROJ. NO. FTFA 23VH48		DRAWING NO.		FILE NO.
DRAWING NO.		FILE NO.		SHEET 43 OF 50



*ALL CIRCUITS SHOWN ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE

120/208 VOLT 3Ø 4W 400 AMP MAIN BREAKER SERVICE RATED		CIRCUIT BREAKER PANEL SCHEDULE NEW PANEL MP										SURFACE MOUNTED NEMA 1 ENCLOSURE	
CKT	LOAD DESCRIPTION	BREAKER		AMPS/PHASE			AMPS/PHASE			BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	A	B	C	A	B	C	AMP	POLE		
1	EX. MSHP-1	2	20							20	2	SPARE	2
3													4
5	EX. EXHAUST FAN	2	20							20	2	EX. MSHP-2	6
7													8
9													10
11	EX. SSH-1	3	90							100	3	EX. SSAHU-1	12
13													14
15	EX. WATER HEATER	2	30							20	1	SPARE	16
17										20	1	SPARE	18
19	SPARE	1	20							20	1	SPARE	20
21										20	1	EX. FIRE ALARM CONTROL PANEL	22
23	SPARE	3	20							20	1	SPARE	24
25										20	1	SPARE	26
27	SPARE	1	20							20	1	SPARE	28
29													30
31	EX. PANEL LA	3	125							20	3	SPARE	32
33													34
35										--	--	SPACE ONLY	36
37	EX. PANEL CP	3	100							20	1	SPARE	38
39										20	1	SPARE	40
41	SPACE ONLY	--	--							--	--	SPACE ONLY	42
43	SPACE ONLY	--	--							--	--	SPACE ONLY	44
45	SPACE ONLY	--	--							--	--	SPACE ONLY	46
47	SPACE ONLY	--	--							--	--	SPACE ONLY	48
49								108.8					50
51	SURGE SUPPRESSOR	3	30						111.1	200	3	PANEL LB(2)	52
53										103.8			54

EXISTING CONNECTED AMPS	202.5	196.5	190.9
NEW ADDED AMPS	108.8	111.1	103.8
TOTAL NEW CONNECTED AMPS	311.3	307.6	294.7
	A	B	C

① INSTALL HANDLE LOCK-ON RED BREAKER
② NEW SUB PANEL

MINIMUM INTERRUPTING CAPACITY: 22,000 AMPS SYMMETRICAL

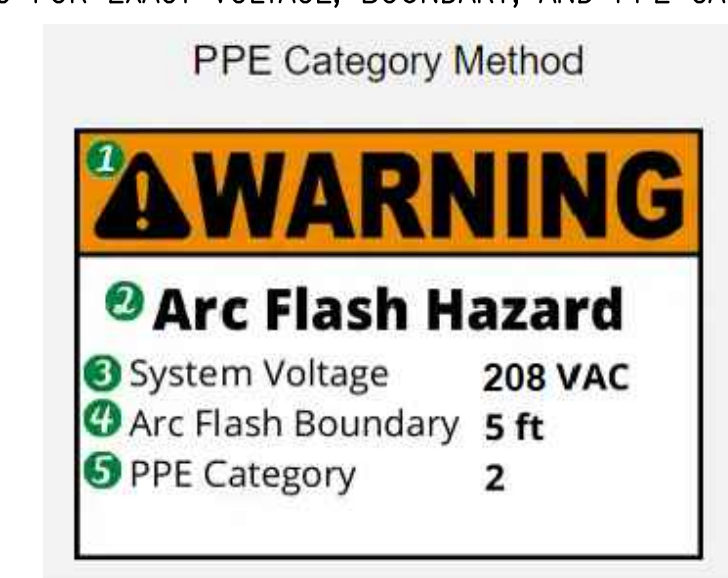
- PANEL NOTES:
1. PROVIDE AN UPDATED TYPED PANEL SCHEDULE IN NEW PANEL.
 2. THE NEUTRAL AND THE GROUND BUSBARS ARE TO BE BONDED TOGETHER.

CIRCUIT AND FEEDER TRACING NOTE:

THE CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS AND FEEDERS FOR ALL PANELBOARDS BEING REPLACED IN THE BUILDING. NEW TYPED PANEL SCHEDULES SHALL BE INSTALLED IN ALL NEW PANELBOARDS. PANEL SCHEDULES SHALL REFLECT NEW WORK CONDITIONS.

- PROVIDE AN ARC FLASH LABEL FOR NEW PANEL 'M' SHOWING THE FOLLOWING:
1. WARNING
 2. ARC FLASH HAZARD
 3. SYSTEM VOLTAGE: 208VAC
 4. ARC FLASH BOUNDARY: 11 FT, 1 IN
 5. PPE CATEGORY: 4
- ARC FLASH CALCULATION SHOWN BASED ON EVENT AT 2 SECONDS.
- ALONG WITH ARC FLASH LABEL AN ADDITIONAL LABEL SHALL BE ATTACHED THAT STATES "NO LIVE WORK SHALL BE PERMITTED ON THIS PANEL".

EXAMPLE ARC FLASH LABEL SHOWN. REFER TO EACH PANEL INFO FOR EXACT VOLTAGE, BOUNDARY, AND PPE CATEGORY



120/208 VOLT 3Ø 4W 200 AMP MAIN BREAKER		CIRCUIT BREAKER PANEL SCHEDULE NEW PANEL LB										SURFACE MOUNTED NEMA 1 ENCLOSURE	
CKT	LOAD DESCRIPTION	BREAKER		AMPS/PHASE			AMPS/PHASE			BREAKER		LOAD DESCRIPTION	CKT
		POLE	AMP	A	B	C	A	B	C	AMP	POLE		
1	REC-NORTH/WEST WALLS	1	20	1.08			12			20	1	LTS-WAREHOUSE LIGHTS	2
3	REC-EAST/SOUTH WALLS	1	20		1.08			3		20	1	LTS-RESTROOM/MECH RM	4
5	REC-SOUTH/RESTROOM	1	20			.72			2	20	1	LTS-EXTERIOR	6
7	REC-EXTERIOR/MECH RM	1	20		.72					20	1	SPARE	8
9	ROLL UP DOOR SOUTH	1	20			12				20	1	SPARE	10
11	REC-WATER FOUNTAIN	1	20				6			20	1	SPARE	12
13	SPACE ONLY	--	--							20	1	SPARE	14
15	SPACE ONLY	--	--							20	1	SPARE	16
17	SPACE ONLY	--	--							20	1	SPARE	18
19	SPACE ONLY	--	--							20	1	SPARE	20
21	SPACE ONLY	--	--							20	1	SPARE	22
23	SPACE ONLY	--	--							--	--	SPACE ONLY	24
25	SPACE ONLY	--	--							--	--	SPACE ONLY	26
27	SPACE ONLY	--	--							--	--	SPACE ONLY	28
29	SPACE ONLY	--	--							--	--	SPACE ONLY	30
31						60				--	--	SPACE ONLY	32
33	SSAHU-1	3	①80		60					--	--	SPACE ONLY	34
35						60				--	--	SPACE ONLY	36
37					35								38
39	SSHP-1	3	①50		35					30	3	SURGE SUPPRESSOR	40
41						35							42

TOTAL CONNECTED AMPS	108.8	111.08	103.72
	A	B	C

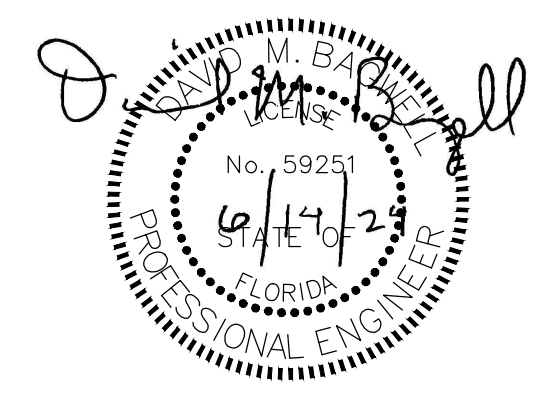
① HACR RATED BREAKER; VERIFY SIZE REQUIRED FOR EQUIPMENT FURNISHED

MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL

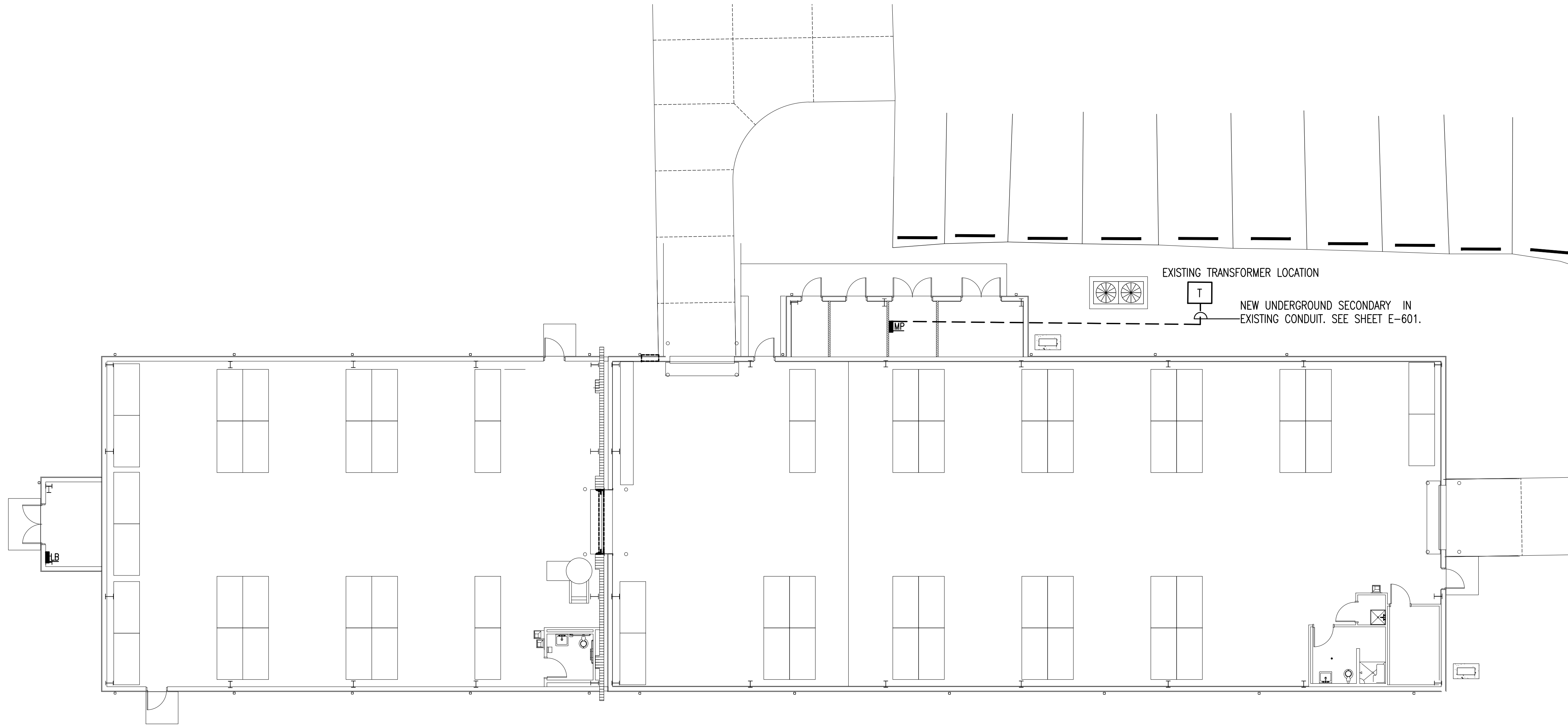
- PANEL NOTE:
- THE NEUTRAL AND THE GROUND BUSBARS ARE TO BE ISOLATED FROM ONE ANOTHER.

- PROVIDE AN ARC FLASH LABEL FOR PANEL 'LB' SHOWING THE FOLLOWING:
1. WARNING
 2. ARC FLASH HAZARD
 3. SYSTEM VOLTAGE: 208VAC
 4. ARC FLASH BOUNDARY: 7 FT
 5. PPE CATEGORY: 3
- ARC FLASH CALCULATION SHOWN BASED ON EVENT AT 2 SECONDS.

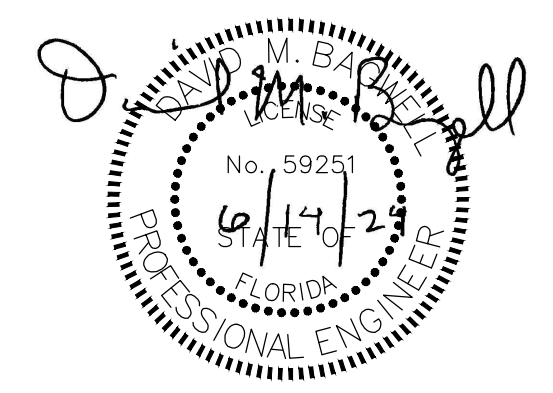
REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE		
DATE: _____		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
SIGNATURE: _____				
APPROVED: _____				
CENM: _____				
DRAWN BY: DCC				
PROJ. ENGR. DMB		CONTENTS		
		PANEL SCHEDULES		
APPROVED: _____		DATE: 14 JUNE 2024		
APPROVED: _____		SCALE: AS SHOWN		
SPEC. NO.		PROJ. NO. FTFA 23VH48	DRAWING NO.	FILE NO.



INDEX NO.
E-602



ELECTRICAL SITE PLAN
SCALE: 1" = 10'



REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT DATE: _____ SIGNATURE: _____ APPROVED: _____ CENM: _____ DRAWN BY: DCC PROJ. ENGR. DMB		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
CONTENTS ELECTRICAL SITE PLAN				
APPROVED 96 CEG/CEN			DATE 14 JUNE 2024	
APPROVED BASE CIVIL ENGINEER			SCALE AS SHOWN	
SPEC. NO.	PROJ. NO. FTFA 23VH48	DRAWING NO.	FILE NO.	SHEET 45 OF 50

INDEX NO.
ES101

ABBREVIATIONS

AW	ABOVE WORK-SURFACE
AFF	ABOVE FINISH FLOOR
A.O.	ACCREDITING OFFICIAL
ADA	AMERICANS WITH DISABILITIES ACT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
AA	APPROVING AUTHORITY
ARCH	ARCHITECTURAL
AHJ	AUTHORITY HAVING JURISDICTION
BBC	BONDING BACKBONE CONDUCTOR
BAS	BUILDING AUTOMATION SYSTEM
CT	CABLE TRAY
CAT 3	CATEGORY 3
CAT 5E	CATEGORY 5 ENHANCED
CAT 6	CATEGORY 6
CAT 6A	CATEGORY 6 AUGMENTED
CO	COMMUNICATIONS OUTLET
CATV	COMMUNITY ANTENNA TELEVISION
C	CONDUIT
CP	CONSOLIDATION POINT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFGI	CONTRACTOR FURNISHED, GOVERNMENT INSTALLED
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
DDC	DIRECT DIGITAL CONTROLS
DEMARC	DEMARICATION
ELEC	ELECTRICAL
EMI	ELECTROMAGNETIC INTERFERENCE
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
FCC	FEDERAL COMMUNICATIONS COMMISSION
FO	FIBER OPTIC
GFCI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
HH	HANDHOLE
IAW	IN ACCORDANCE WITH
ISP	INSIDE PLANT
LAN	LOCAL AREA NETWORK
MTR	MAIN TELECOMMUNICATIONS ROOM
MH	MAINTENANCE HOLE
MAX	MAXIMUM
um	MICRON / MICROMETER
MIN	MINIMUM
MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
MM	MULTIMODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEC	NATIONAL ELECTRICAL CODE
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIPRNET	UNCLASSIFIED INTERNET PROTOCOL ROUTER NETWORK
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
OM	OPTICAL MULTIMODE FIBER
OS	OPTICAL SINGLE MODE FIBER
OSP	OUTSIDE PLANT
PR	PAIR
PP	PATCH PANEL
PVC	POLYVINYL CHLORIDE
PB	PULL BOX
PBB	PRIMARY BONDING BUSBAR
PBX	PRIVATE BRANCH EXCHANGE
PDS	PROTECTED DISTRIBUTION SYSTEM
RMU	RACK MOUNTED UNIT
RM	ROOM
R/I	ROUGH-IN
ScTP	SCREENED TWISTED-PAIR
SIPRNet	SECRET INTERNET PROTOCOL ROUTER NETWORK
SBB	SECONDARY BONDING BUSBAR
SVTC	SECURED VIDEO TELECONFERENCE
STP	SHIELDED TWISTED-PAIR
SM	SINGLEMODE
SF	SURFACE MOUNT
STR	STRANDS
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TER	TELECOMMUNICATIONS EQUIPMENT ROOM
TR	TELECOMMUNICATIONS ROOM
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UL	UNDERWRITERS LABORATORIES INC
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED-PAIR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTC	VIDEO TELECONFERENCE
VoIP	VOICE OVER INTERNET PROTOCOL
VoSIP	VOICE OVER SECRET INTERNET PROTOCOL

GENERAL NOTES

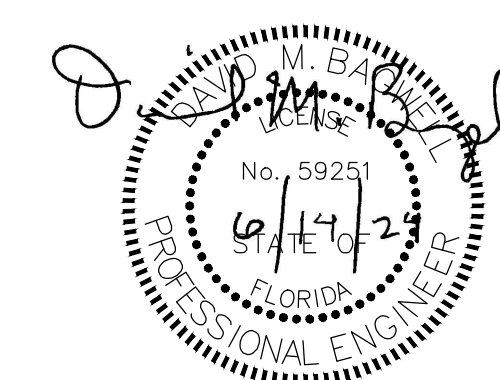
- ALL PENETRATIONS THRU FIRE RATED WALLS, CEILINGS, FLOORS, PARTITIONS, ETC SHALL BE FIRE STOPPED TO THE LATEST CODES, STANDARDS AND THE AUTHORITY HAVING JURISDICTION. COORDINATE WITH ARCHITECTURAL.
- ALL EXTERIOR PENETRATIONS SHALL BE SEALED IN A NEAT/CLEAN MANNER AND SHALL HAVE A WATER TIGHT SEAL.
- ALL CONDUITS AND FIBER MESH INNERDUCT SHALL BE PROVIDED WITH PULL STRING REGARDLESS IF CABLE IS INSTALLED OR NOT.

TELECOMMUNICATIONS NEW WORK LEGEND

GENERAL TELECOMMUNICATIONS:

- ▼ WALL MOUNTED DATA OUTLET MOUNTED @ 48" AFF, FROM THE CENTER OF THE OUTLET, UNO. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS. SUBSCRIPTS INDICATES THE FOLLOWING:
 - N - WALL MOUNTED NETWORK DATA OUTLET WITH 2 RJ-45 JACKS. PROVIDE (1) HORIZONTAL CABLE PER JACK. CABLING AND JACKS SHALL BE GREEN IN COLOR.
 - W - WALL MOUNTED PHONE OUTLET WITH 1 RJ-45 JACK MOUNTED AT 48" AFF FROM THE TOP OF THE OUTLET. PROVIDE (1) HORIZONTAL CABLE PER JACK. CABLE AND JACK SHALL BE GREEN IN COLOR.

THE CONTRACTOR SHALL COORDINATE WITH 96TH COMMUNICATIONS SQUADRON (96 CS/SCXP) PRIOR TO COMMENCING ANY WORK ON ANY GOVERNMENT OSP/ISP/NETWORK COMMUNICATIONS SYSTEM.



REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE _____		SIGNATURE _____		
APPROVED _____		CENM _____		
DRAWN BY: DCC		PROJ. ENGR: DMB		
CONTENTS COMMUNICATIONS LEGEND AND NOTES		APPROVED _____ DATE 14 JUNE 2024		
APPROVED _____		SCALE AS SHOWN		
BASE CIVIL ENGINEER		SPEC. NO. _____ PROJ. NO. FTFA 23VH48 DRAWING NO. _____ FILE NO. _____ SHEET 46 OF 50		

INDEX NO.
T-001

TELECOMMUNICATIONS GENERAL NOTES - FACILITY INFRASTRUCTURE:

THE TELECOMMUNICATIONS DRAWINGS PROVIDED ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION OF ALL REQUIRED DEVICES; SUCH AS OUTLETS, RACEWAYS, EQUIPMENT, AND APPURTENANCES. THEY DO NOT SHOW ALL NECESSARY OFFSETS, JUNCTION BOXES, CABLE/LADDER TRAY TRANSITIONS, CONDUIT SLEEVES/PENETRATIONS, AND ADJUSTMENTS NECESSARY BY COORDINATION WITH OTHER TRADES IN THE FIELD.

TELECOMMUNICATION CONTRACTOR'S SCOPE OF WORK: TELECOMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR ENTIRE STRUCTURED CABLING SYSTEM ELEMENTS DEFINED IN THIS SCOPE OF WORK. THIS INCLUDES A COMPLETE INSTALLATION OF ALL PASSIVE INFRASTRUCTURE ELEMENTS SUCH AS OUTLETS, JACKS, CABLING, CABINETS, RACKS, BACKBOARDS, LADDER TRAY (LIMITED TO TELECOM ROOMS), TELECOM EQUIPMENT ROOM/CABINET BONDING, TERMINATIONS, TESTING, LABELING, WARRANTIES, AND ALL REQUIRED CLOSE-OUT DOCUMENTS. THE TELECOMMUNICATIONS CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO ENSURE A FULLY FUNCTIONAL SYSTEM.

COORDINATION: WITH OTHER TRADES EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING OUTLETS, RACEWAYS, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO; VERIFYING THE LOCATION AND SIZE OF OPENINGS/PENETRATIONS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES, INSTALLING WORK IN CHASES, SHAFTS, CEILING INTERSTITIAL SPACES, AND EQUIPMENT SPACES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES.

INSTALLATION SHALL CONFORM WITH NFPA 70 "NATIONAL ELECTRICAL CODE." ANSII/TIA, UFC 3-580-01, UFC 4-010-06, AND 96 CS DESIGN STANDARDS AND INSTALLATION SPECIFICATION - JAN 2024 (UNO).

CABLING INSTALLATION: ALL CABLING ROUTED IN SLAB, BELOW VAPOR BARRIER OR BELOW GRADE, SHALL BE U.L. LISTED FOR WET LOCATIONS THAT COMPLIES WITH UFC 3-580-01 AND NFPA 70. DO NOT USE PLENUM OR RISER CABLE, GEL-FILLED OSP, AND UNLISTED CABLES IN SUCH AN ENVIRONMENT.

USE A FILL RATIO OF 40 PERCENT FOR CONDUIT SIZING. DO NOT INSTALL MORE THAN FOUR, FOUR-PAIR CABLES IN A 1 INCH (27 MM) CONDUIT.

LABEL ALL CABLES WITHIN 6 INCHES OF EACH TERMINATION. PROVIDE 12 INCHES SERVICE LOOP AT THE WORK AREA END OF EACH HORIZONTAL CABLE.

INSTALL VELCRO CABLE TIES TO ALL CABLE BUNDLES IN RACK WIRE MANAGEMENT, D-RINGS AND OTHER SUPPORT MEANS.

BALANCED TWISTED-PAIR CABLING SHALL BE SEPARATED FROM FLUORESCENT LAMPS AND ASSOCIATED FIXTURES BY A MINIMUM OF 5 IN.

TELECOMMUNICATIONS FACEPLATES SHALL MATCH ELECTRICAL SWITCH AND RECEPTACLE PLATE FINISHES.

PROVIDE COVER PLATES FOR ALL UNUSED J-BOX LOCATIONS.

PROVIDE PULL STRING IN ALL EMPTY CONDUITS AND INNERDUCT. PULL STRING TO BE RATED FOR 600lbs IN ALL CONDUITS.

CONTRACTOR SHALL PROVIDE FIBER AND COPPER CABLE SLACK FOR MAINTENANCE WITHIN THE HORIZONTAL CABLING SYSTEM CONFIGURATION AS FOLLOWS IN: TELECOMMUNICATIONS ROOM CABLE LADDER UTP/ScTP 10 FEET AND SMMM 10 FEET.

1'-0" OF CABLE SLACK IS REQUIRED AT THE WORKSTATION OUTLET FOR BALANCED TWISTED PAIR CABLING. 3.3' OF CABLE SLACK IS REQUIRED AT THE WORKSTATION OUTLET FOR FIBER OPTIC CABLING.

CABLING INSTALLATION IN CABLE TRAYS:
A MINIMUM OF 12 IN ACCESS HEADROOM SHALL BE PROVIDED AND MAINTAINED ABOVE A CABLE TRAY SYSTEM OR CABLE RUNWAY.

A MINIMUM OF 3 IN CLEAR VERTICAL SPACE SHALL BE AVAILABLE ABOVE ACCESSIBLE CEILING, BELOW THE CABLE TRAY.

THE MAXIMUM FILL OF ANY CABLE TRAY SHALL NOT EXCEED 25% (UNO), ALLOWING FACILITY USERS AN ADDITIONAL 25% SPARE CAPACITY. THE MAXIMUM FILL DEPTH OF ANY CABLE TRAY SHALL NOT EXCEED 6 IN.

PROVIDE 10' OF SLACK IN COMMUNICATIONS ROOM ON LADDER RACK IN AN OUT AND BACK FASHION.

MAIN TELECOM ROOM (MTR) / TELECOM ROOMS (TRs):
CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ENSURE TELECOM ROOMS ARE DIMENSIONALLY CONSTRUCTED AS DESIGNED. THIS INCLUDES USING FIELD MEASUREMENTS TO VERIFY ROOM DIMENSIONS, CONDUIT LOCATIONS (PRIOR TO CONCRETE POUR), WALL PENETRATIONS, AND DEVICE PLACEMENT.

INSTALL BACKBOARDS IN ACCORDANCE WITH TIA-569-D AND 96 CS CYBER INFRASTRUCTURE STANDARDS & INSTALLATIONS SPECIFICATIONS, JAN 2024 (PARA 2.3.7, BACKBOARDS). FIRE RATED BACKBOARDS SHALL BE PROVIDED ON A MINIMUM OF TWO ADJACENT WALLS IN THE TELECOMMUNICATION SPACES NEAR CABLE ENTRY PORTS. (BACKBOARDS) PROVIDE VOID-FREE, INTERIOR GRADE A-C PLYWOOD 3/4-INCH THICK 4- FEET BY 8- FEET. BACKBOARDS SHALL BE FIRE RATED BY MANUFACTURING PROCESS. PAINT APPLIED OVER FIRE RETARDANT BACKBOARD SHALL BE UL 723 FIRE RETARDANT PAINT AND IDENTIFIED ALONG WITH FIRE STAMP CLEARLY VISIBLE. PROVIDE LABEL INCLUDING PAINT MANUFACTURER, DATE PAINTED, UL LISTING AND NAME OF INSTALLER. WHEN PAINTED, PAINT LABEL AND FIRE STAMP SHALL BE CLEARLY VISIBLE. BACKBOARDS SHALL BE PERMANENTLY FASTENED TO THE WALL BY MEANS OF WALL ANCHORS UTILIZING STAINLESS STEEL HARDWARE WITH A FLAT HEAD BOLT. FINISHED INSTALLATION SHALL BE FLUSH. DRYWALL SCREWS OR ANY OTHER SCREW TYPES SHALL NOT BE ACCEPTABLE.

INSTALL FLOOR MOUNTED EQUIPMENT RACKS / CABINETS LOCATED AT OR NEAR THE CENTER OF THE TELECOMMUNICATION ROOM. MAINTAIN A MINIMUM OF 36 INCHES SPACE BOTH IN FRONT AND IN BACK OF THE RACK, MEASURED FROM THE EQUIPMENT, AND A MINIMUM SIDE CLEARANCE OF 24 INCHES ON AT LEAST ONE END OF THE RACK OR ROW OF ADJACENT RACKS IS REQUIRED. PROVIDE 25% SPARE CAPACITY WITHIN EACH UTILIZED RACK.

FURNITURE/MILLWORK:
ENSURE THAT THE CABLE IS PROTECTED AT ALL TRANSITION POINTS, AND THAT METALLIC SEPARATION IS PROVIDED BETWEEN TELECOMMUNICATION AND POWER WIRING IN THE UTILITY COLUMNS AND SYSTEMS FURNITURE TRACK IN ACCORDANCE WITH TIA-569-E AND NFPA 70.

ELECTRICAL GENERAL NOTES - FACILITY INFRASTRUCTURE:

ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INTERIOR ROUGH-IN AND SUPPORT SYSTEM NECESSARY FOR THE COMPLETE STRUCTURED CABLING SYSTEM DEFINED IN THIS SCOPE OF WORK. THIS INCLUDES A COMPLETE INSTALLATION OF ALL REQUIRED PATHWAYS INCLUDING: CABLE TRAY (EXCLUDES TRAY IN MTR/TR), CONDUIT, BACK BOXES, JUNCTION BOXES, FLOOR BOXES, BLOCKING, GROUNDING CONDUCTORS AND BUSBARS, FIRESTOPPING, POWER, AND ANY OTHER NECESSARY APPURTENANCES.

THE ELECTRICAL CONTRACTOR SHALL UNDERSTAND THE FULL INTENT OF THE DRAWINGS AND SPECIFICATIONS PRIOR TO BID, AND WILL INCLUDE IN SCOPE OF WORK ALL REQUIREMENTS NECESSARY TO SUPPORT THE TELECOMMUNICATIONS SYSTEM TO COORDINATE AND ENSURE A FULLY FUNCTIONAL SYSTEM.

COORDINATION WITH OTHER TRADES:
EXAMINE AND REVIEW THE DOCUMENTS OF ALL DIVISIONS IN ORDER TO COORDINATE THE INSTALLATION OF WORK. USE DIMENSIONED DRAWINGS TO VERIFY THE SPACE NECESSARY FOR LOCATING OUTLETS, RACEWAYS, AND EQUIPMENT. USE FIELD MEASUREMENTS TO VERIFY DIMENSIONS WHERE AREAS ARE CONGESTED, AND EXACT LOCATION IS CRITICAL TO ENSURE PROPER INSTALLATION. COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFYING THE LOCATION AND SIZE OF OPENINGS/PENETRATIONS IN FLOORS, WALLS, PARTITIONS, CEILINGS, AND ROOFS WITH THE INSTALLING TRADES; ALLOCATION OF SPACE WITH OTHER TRADES, INSTALLING WORK IN CHASES, SHAFTS, CEILING INTERSTITIAL SPACES, AND EQUIPMENT SPACES; AND THE PHASING OF INSTALLATION WORK WITH THAT OF OTHER TRADES.

INSTALLATION SHALL CONFORM WITH NFPA 70 "NATIONAL ELECTRICAL CODE." ANSII/TIA, UFC 3-580-01, ELECTRICAL SPECIFICATIONS, AND 96 CS DESIGN STANDARDS AND INSTALLATION SPECIFICATION - JAN 2024 (UNO).

CONDUIT:
INSTALL ELECTRICAL METALLIC TUBING (EMT) CONDUIT FROM THE CABLE BACKBONE DISTRIBUTION SYSTEM, WHETHER CABLE TRAY OR ENCLOSED DUCT, TO EACH OUTLET (UNO).

PROVIDE A MINIMUM OF 1 INCH EMT CONDUIT FOR STANDARD OUTLETS. WHEN CABLE TRAY OR ENCLOSED DUCT IS NOT USED, INSTALL INDIVIDUAL CONDUITS FROM THE MTR/TR TO EACH OUTLET.

CONDUITS HAVE BEEN SIZED BASED ON THE NFPA, AS WELL AS ANSII/TIA-569-E. WHERE INSTALLATIONS VARY, INCREASE CONDUITS SIZES ACCORDING TO MAXIMUM NUMBER OF CABLES BASED ON ALLOWABLE FILL RATIO OF 40%.

FOR IN-SLAB TELECOM DEVICES, WITH CONDUIT SYSTEMS LOCATED BELOW VAPOR BARRIER OR BELOW GRADE, PROVIDE HOME RUNS BACK TO THE MTR/TR SERVING THAT AREA.

METALLIC PATHWAYS 3 FT OR GREATER IN LENGTH SHALL COMPLY WITH THE BONDING REQUIREMENTS OF ANSII/TIA-607 (2019d).

FOR CONDUITS WITH AN INTERNAL DIAMETER OF 2 IN OR LESS, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 6 TIMES THE INTERNAL DIAMETER. FOR CONDUITS WITH AN INTERNAL DIAMETER OF MORE THAN 2 IN, THE INSIDE RADIUS OF A BEND IN CONDUIT SHALL BE AT LEAST 10 TIMES THE INTERNAL DIAMETER. BENDS IN THE CONDUIT SHALL NOT CONTAIN ANY KINKS OR OTHER DISCONTINUITIES THAT MAY HAVE A DETRIMENTAL EFFECT ON THE CABLE SHEATH DURING CABLE PULLING OPERATIONS.

CONDUITS SHALL BE REAMED TO ELIMINATE SHARP EDGES. METALLIC CONDUIT SHALL BE TERMINATED WITH AN INSULATED BUSHING.

DO NOT USE FLEXIBLE METAL CONDUIT FOR TELECOMMUNICATIONS WIRING EXCEPT WHEN INSTALLING ACCESS FLOOR BOXES IN AN ACCESS FLOOR, WHERE THE ACCESS FLOOR BOX MAY BE RELOCATED WITHIN A SPECIFIED SERVICE AREA. IN THIS CASE THE LENGTH OF THE FLEXIBLE METAL CONDUIT MUST NOT EXCEED A LENGTH OF 20 FEET (6 M) FOR EACH RUN PER TIA-569-E.

ALL PENETRATIONS SHALL BE SEALED WITH AN APPROVED SEALANT OR U.L. LISTED PENETRATION DEVICE THAT WILL MAINTAIN THE FIRE, SMOKE AND WATERPROOF OR OTHER APPLICABLE RATINGS OF THE TYPE OF CONSTRUCTION BEING PENETRATED. SEE ARCHITECTURAL DRAWINGS FOR PENETRATION REQUIREMENTS.

UNLESS NOTED OTHERWISE, ALL CONDUITS SHALL BE INSTALLED CONCEALED UNDER FLOOR SLABS, ABOVE THE CEILING AND WITHIN THE FINISHED WALLS. ALL OUTLET BOXES SHALL BE INSTALLED FLUSH MOUNTED WITHIN FINISHED WALLS, CEILINGS OR FLOORS. SURFACE MOUNTED RACEWAY AND OUTLET BOXES SHALL NOT BE PERMITTED ON FINISHED WALLS, CEILINGS OR FLOORS EXCEPT AS INDICATED ON THE DRAWINGS.

WHEN SURFACE MOUNT RACEWAYS ARE INDICATED, PROVIDE RACEWAY TO EMT TRANSITIONAL ADAPTER AT ALL ACCESSIBLE CEILINGS. ABOVE ACCESSIBLE CEILING, ROUTE EMT TO SERVING CABLE TRAY OR SERVING MTR/TR.

PULL ROPE SHALL BE INSTALLED IN ALL CONDUITS. PULL ROPE SHALL HAVE A MINIMUM 600LB TENSILE STRENGTH FOR ALL TELECOMMUNICATIONS CONDUITS.

WORK AREA OUTLETS:
INSTALL DOUBLE GANG ELECTRICAL BOXES, MINIMUM STANDARD SIZE 4 INCHES SQUARE AND 3-1/2 INCHES DEEP WITH APPROPRIATELY SIZED PLASTER RING FOR CONNECTION OF SINGLE GANG OR DOUBLE GANG FACEPLATE.

IN NEW WALLS - INSTALL OUTLET BOX (AND ASSOCIATED CONDUIT) FOR RECESS MOUNTING WITH THE FACEPLATE FLUSH WITH THE WALL SURFACE, AT THE SAME HEIGHT AS THE ELECTRICAL OUTLETS (UNLESS NOTED OTHERWISE).

ON EXISTING WALLS - INSTALL OUTLET BOX (AND ASSOCIATED CONDUIT) FOR SURFACE MOUNTING AT THE SAME HEIGHT AS THE ELECTRICAL OUTLETS (UNLESS NOTED OTHERWISE).

DO NOT PUT OUTLET BOXES IN SAME STUD CAVITY WHERE BOXES ARE ON EACH SIDE OF STC RATED WALLS.

TELECOM GROUNDING / BONDING:
INSTALL ALL REQUIRED TELECOM GROUNDING / BONDING PER ANSII/TIA 607 (2019d), ELECTRICAL SPECIFICATIONS, TELECOM GROUNDING DETAILS / NOTES (UNO).

BLOCKING AND SUPPORT HARDWARE:
INSTALL ALL MOUNTS AND SUPPORT HARDWARE FOR TELECOM SYSTEMS; INCLUDING, UNISTRUT, ALL- THREAD OR THREADED RODS, BLOCKING, SUPPORT CABLES, ETC.

CABLE TRAYS:
THE MAXIMUM FILL OF ANY CABLE TRAY SHALL NOT EXCEED 25%, ALLOWING FACILITY USERS AN ADDITIONAL 25% SPARE CAPACITY, FOR A MAXIMUM 50% FILL RATIO (UNO). THE MAXIMUM FILL DEPTH OF ANY CABLE TRAY SHALL NOT EXCEED 6 IN.

CABLE TRAY SHALL CONSIST OF A LADDER TYPE OR WELDED WIRE CABLE TRAY WITH FLAT SOLID BOTTOM OR PLENUM RATED TRAY INSERT IN THE TELECOMMUNICATION SPACES TO PROVIDE DISTRIBUTION BETWEEN THE PLYWOOD 8 EAFB CYBER INFRASTRUCTURE 9 BACKBOARD, EQUIPMENT RACKS, BACKBONE CONDUITS, AND THE DISTRIBUTION CABLE TRAY.

THE SPAN FOR CABLE SUPPORT SYSTEMS SHALL BE DETERMINED IN ACCORDANCE WITH THE MANUFACTURER'S MAXIMUM RECOMMENDED LOAD CAPACITY FOR A GIVEN SPAN. THESE SYSTEMS MAY BE SUPPORTED BY THREE BASIC METHODS:

1. CANTILEVER BRACKETS FROM A WALL;
2. TRAPEZE OR INDIVIDUAL ROD SUPPORTS FROM ABOVE;
3. OR FROM BELOW.

CABLE TRAY SUPPORTS SHALL BE LOCATED WHERE PRACTICAL SO THAT CONNECTIONS BETWEEN SECTIONS OF THE TRAY FALL BETWEEN THE SUPPORT POINT AND ONE-QUARTER THE DISTANCE OF THE SPAN. A SUPPORT SHALL BE PLACED WITHIN 24 IN ON EACH SIDE OF ANY CONNECTION TO A BEND, TEE, OR CROSS.

A MINIMUM OF 12 IN ACCESS HEADROOM SHALL BE PROVIDED AND MAINTAINED ABOVE A CABLE TRAY SYSTEM OR CABLE RUNWAY.

INSTALL CABLE TRAY WITH SWEEPING RADIAL TURNS. DO NOT INSTALL WITH HARD 90° TURNS.

BOND CABLE TRAY PER ANSII/TIA 607, AND GROUNDING DETAILS / NOTES.

BASKET CABLES TRAYS SHALL HAVE A SOLID BOTTOM.

PULL BOXES:
PULL BOXES SHALL BE READILY ACCESSIBLE. PULL BOXES SHALL NOT BE PLACED IN A FIXED FALSE CEILING SPACE UNLESS IMMEDIATELY ABOVE A SUITABLY MARKED ACCESS PANEL.

A PULL BOX SHALL BE PLACED IN A CONDUIT RUN WHERE:

- THE LENGTH IS OVER 100 FT;
- THERE ARE MORE THAN TWO 90° BENDS, OR EQUIVALENT;
- OR THERE IS A REVERSE (U-SHAPED) BEND IN THE RUN.

PULL BOXES SHALL BE PLACED IN A STRAIGHT SECTION OF CONDUIT. THEY SHALL NOT BE USED IN LIEU OF A BEND. THE CORRESPONDING CONDUIT ENDS SHALL BE ALIGNED WITH EACH OTHER.

WHERE A PULL BOX IS REQUIRED WITH CONDUITS SMALLER THAN 1-1/4", AN OUTLET BOX MAY BE USED AS A PULL BOX.

IF THE PULL BOX IS COMPRISED OF METALLIC COMPONENTS, IT SHALL BE BONDED TO GROUND.

EGLIN AFB & PROECT SPECIFIC NOTES:

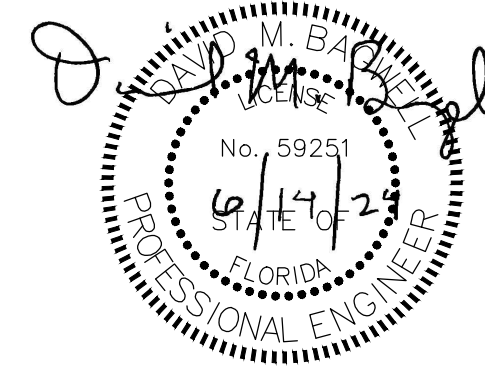
INSTALLATION SHALL CONFORM WITH 96 CS DESIGN STANDARDS AND INSTALLATION SPECIFICATION - JAN 2024 (UNO).

ALL TELECOM CABLING SHALL BE PLENUM RATED.

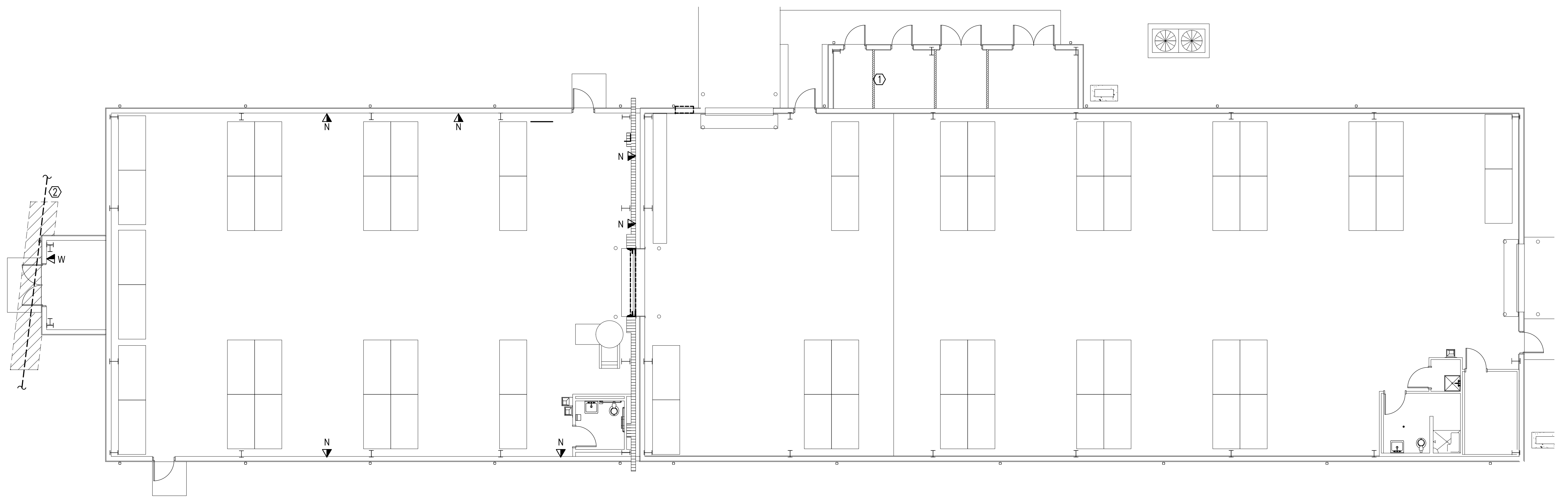
INSTALL CABLING IN MINIMUM 1" CONDUIT FROM THE OUTLET TO A CABLE TRAY OR DIRECT TO THE COMM ROOM.

SUPERVISORS AND INSTALLERS ASSIGNED TO THE INSTALLATION OF THIS SYSTEM OR ANY OF ITS COMPONENTS SHALL BE BUILDING INDUSTRY CONSULTING SERVICES INTERNATIONAL (BICSI) REGISTERED CABLING INSTALLERS, TECHNICIAN LEVEL. SUBMIT DOCUMENTATION OF CURRENT BICSI CERTIFICATION FOR EACH OF THE KEY PERSONNEL. IN LIEU OF BICSI CERTIFICATION, SUPERVISORS AND INSTALLERS ASSIGNED TO THE INSTALLATION OF THIS SYSTEM OR ANY OF ITS COMPONENTS SHALL HAVE A MINIMUM OF 3-YEARS EXPERIENCE IN THE INSTALLATION OF THE SPECIFIED COPPER AND FIBER OPTIC CABLE AND COMPONENTS. THEY SHALL HAVE FACTORY OR FACTORY APPROVED CERTIFICATION FROM EACH EQUIPMENT MANUFACTURER INDICATING THAT THEY ARE QUALIFIED TO INSTALL AND TEST THE PROVIDED PRODUCTS. SUBMIT DOCUMENTATION FOR A MINIMUM OF THREE AND A MAXIMUM OF FIVE SUCCESSFUL TELECOMMUNICATION SYSTEM INSTALLATIONS FOR EACH OF THE KEY PERSONNEL. DOCUMENTATION FOR EACH KEY PERSON SHALL INCLUDE AT LEAST TWO SUCCESSFUL SYSTEM INSTALLATIONS PROVIDED THAT ARE EQUIVALENT IN SYSTEM SIZE AND IN CONSTRUCTION COMPLEXITY TO THE TELECOMMUNICATIONS SYSTEM PROPOSED FOR THIS SOLICITATION. INCLUDE SPECIFIC EXPERIENCE IN INSTALLING AND TESTING TELECOMMUNICATIONS SYSTEMS AND PROVIDE THE NAMES AND LOCATIONS OF AT LEAST TWO PROJECT INSTALLATIONS SUCCESSFULLY COMPLETED USING OPTICAL FIBER AND COPPER TELECOMMUNICATIONS.

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		TITLE EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	DCC			
PROJ. ENGR	DMB			
		CONTENTS COMMUNICATIONS GENERAL NOTES		
		APPROVED	DATE	
		96 CEG/CEN	14 JUNE 2024	
		APPROVED	SCALE	
		BASE CIVIL ENGINEER	AS SHOWN	
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	SHEET
	FTFA 23VH48			47 OF 50



INDEX NO.
T-002



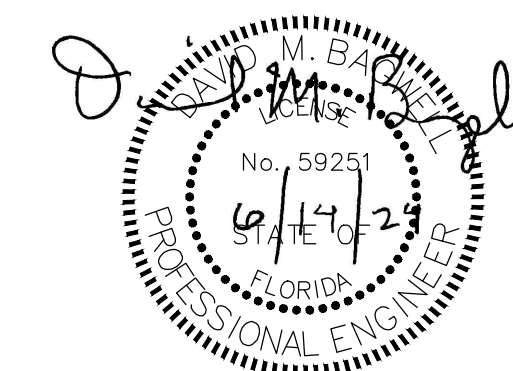
OUTLET INSTALLATION NOTE:
SURFACE MOUNT COMMUNICATIONS CONDUIT AND OUTLETS.

NEW WORK COMMUNICATIONS PLAN

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

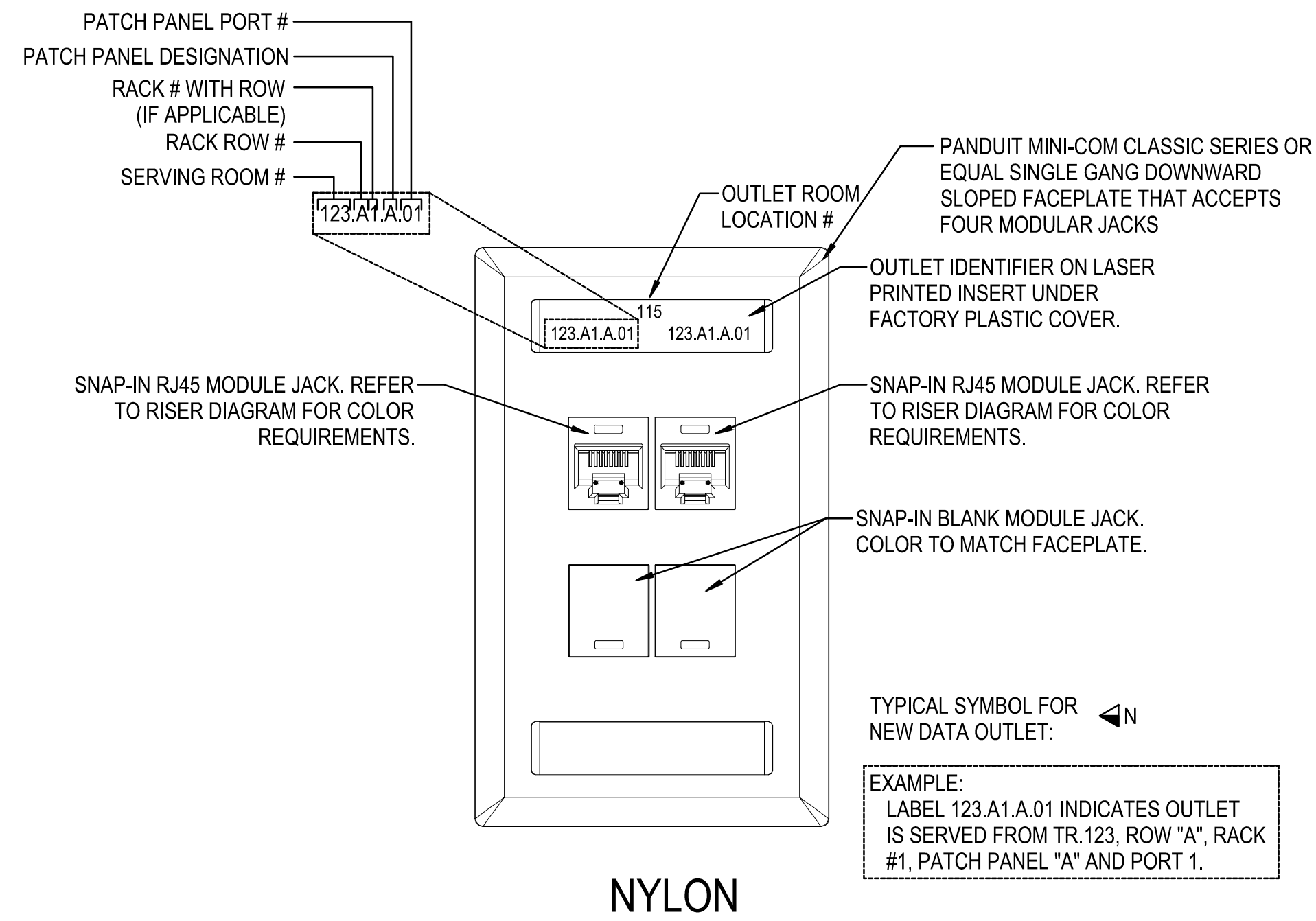
KEYNOTES:

- ① EXISTING COMMUNICATIONS CABINET LOCATION WITH EXISTING 24 PORT CAT 6 PATCH PANEL.
- ② EXISTING THREE 4" UNDERGROUND COMMUNICATIONS OSP CONDUITS. CONTRACTOR SHALL CONCRETE ENCASE EXISTING CONDUITS WHERE LOCATED WITHIN 5' OF THE NEW BUILDING ADDITION (HATCHED AREA). REFER TO CONCRETE ENCASEMENT DETAIL ON SHEET T-501.

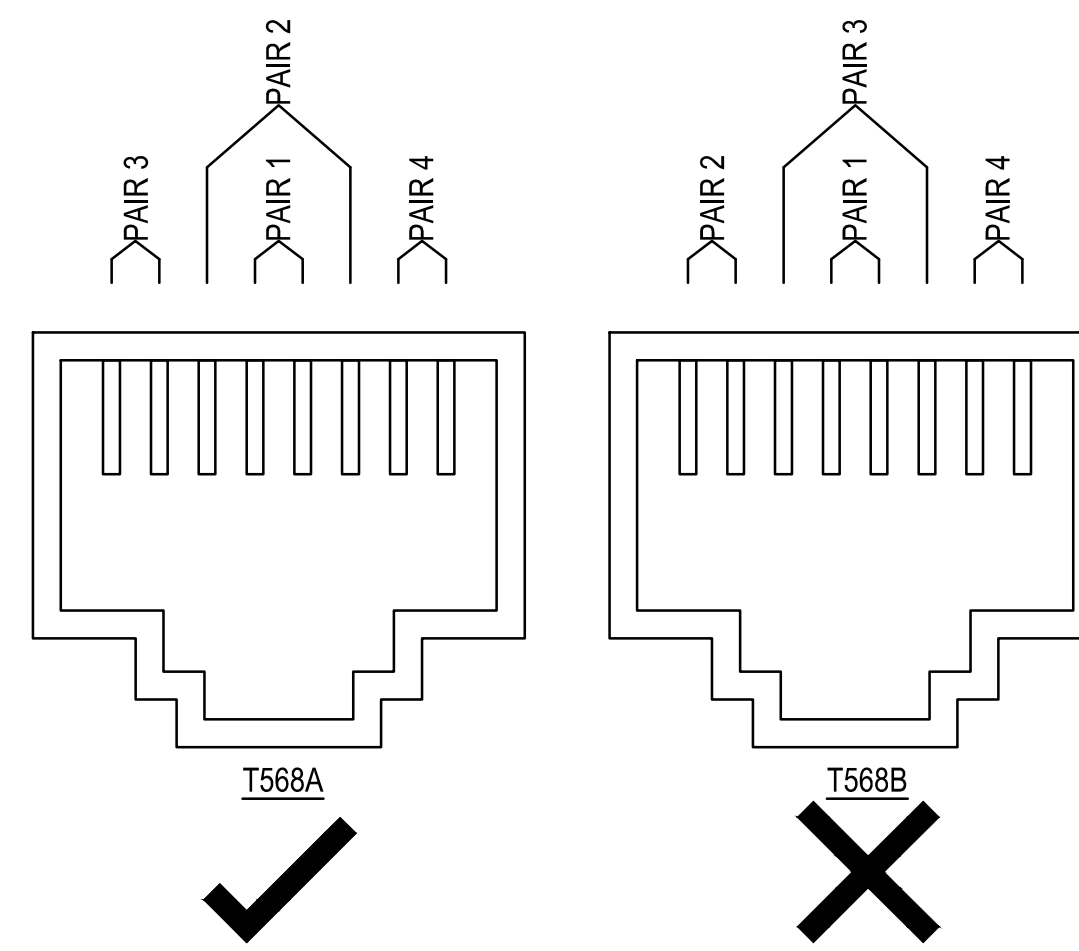


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AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE				
SIGNATURE				
APPROVED				
CENM				
DRAWN BY	DCC			
PROJ. ENGR	DMB			
CONTENTS		NEW WORK COMMUNICATIONS PLAN		
APPROVED	DATE	14 JUNE 2024		
96 CEG/CEN				
APPROVED	SCALE	AS SHOWN		
BASE CIVIL ENGINEER				
SPEC. NO.	PROJ. NO.	DRAWING NO.	FILE NO.	SHEET 48 OF 50
	FTFA 23VH48			

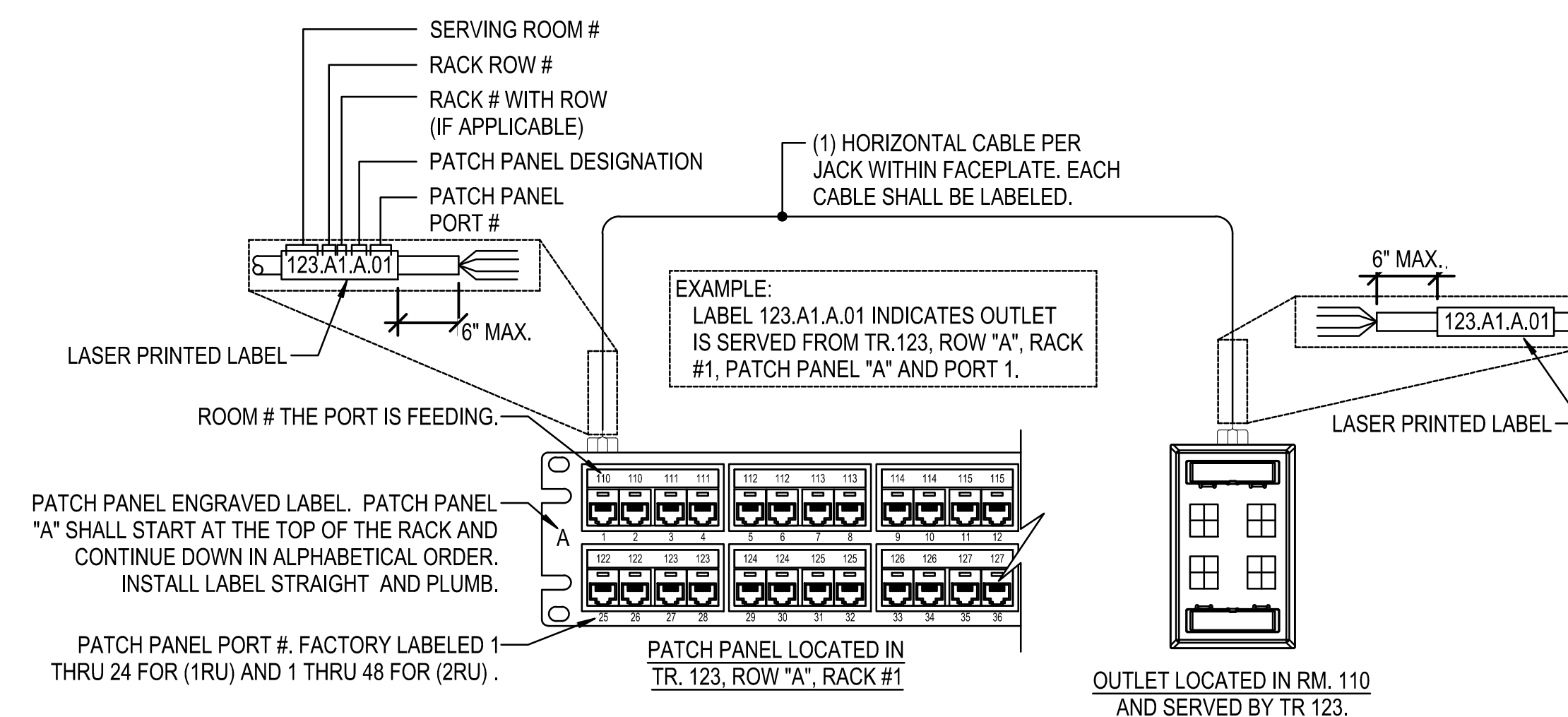
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T-101



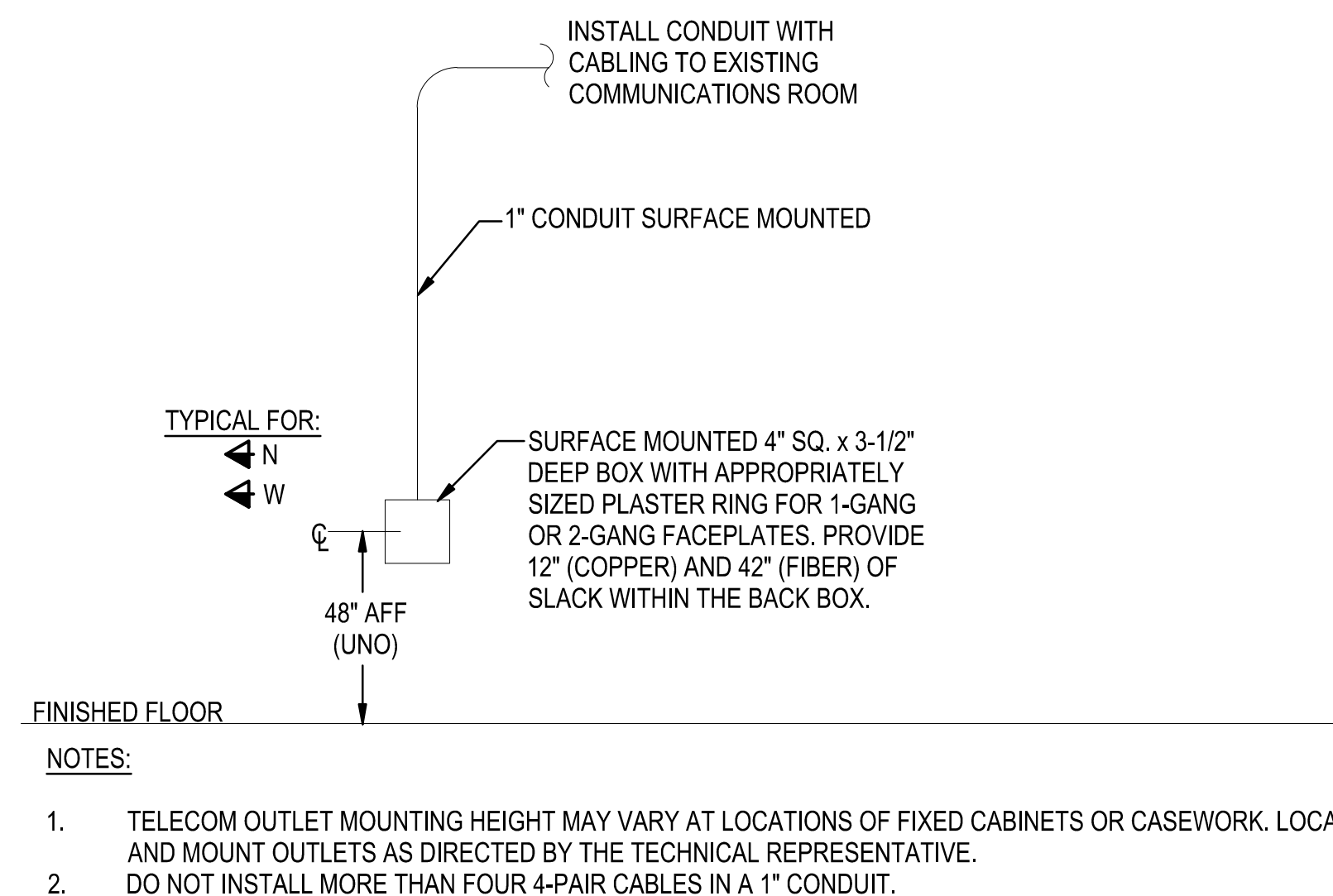
1 DATA FACEPLATE DETAIL
T-501 NOT TO SCALE



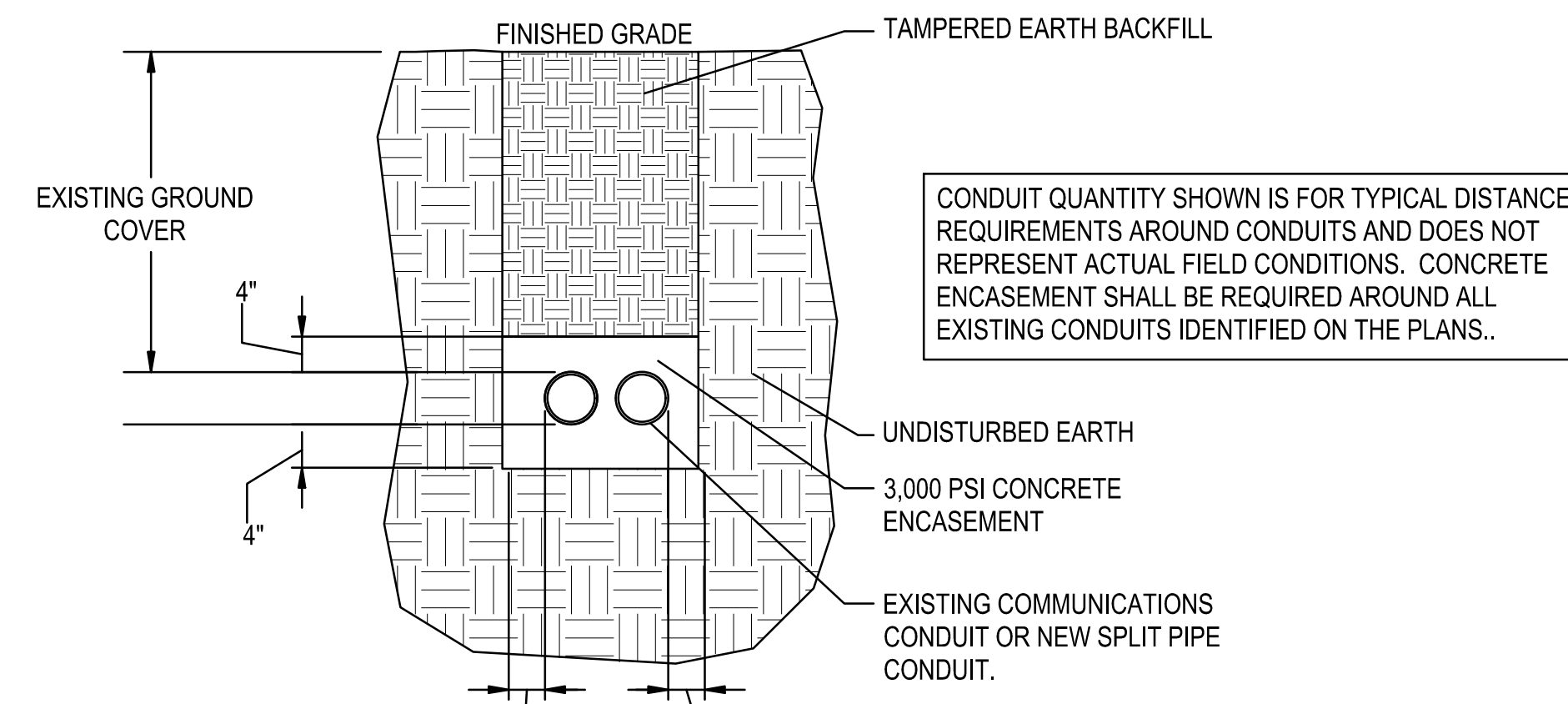
2 WIRING TERMINATION STYLE DETAIL
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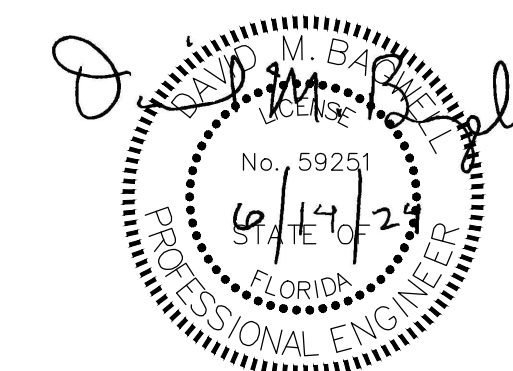
3 PATCH PANEL / WIRE LABELING DETAIL
T-501 NOT TO SCALE



4 TELECOMMUNICATION OUTLET MOUNTING - EXISTING WALLS
T-501 NOT TO SCALE









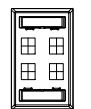
5 UNDERGROUND TELECOM CONCRETE ENCASEMENT DETAIL
T-501 NOT TO SCALE



REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT DATE: _____ SIGNATURE: _____ APPROVED: _____ CENM: _____ DRAWN BY: DCC PROJ. ENGR: DMB		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
		CONTENTS COMMUNICATIONS DETAILS		
		APPROVED 96 CEG/CEN		DATE 14 JUNE 2024
		APPROVED BASE CIVIL ENGINEER		SCALE AS SHOWN
SPEC. NO.	PROJ. NO. FTFA 23VH48	DRAWING NO.	FILE NO.	SHEET 49 OF 50

INDEX NO.
T-501

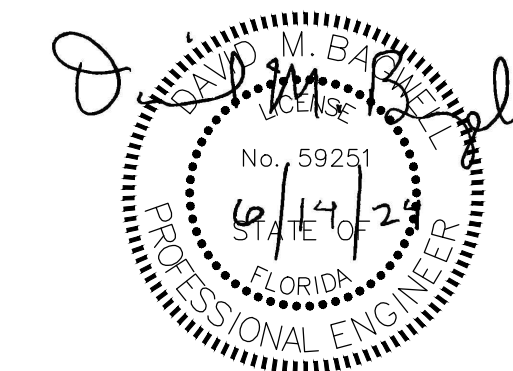
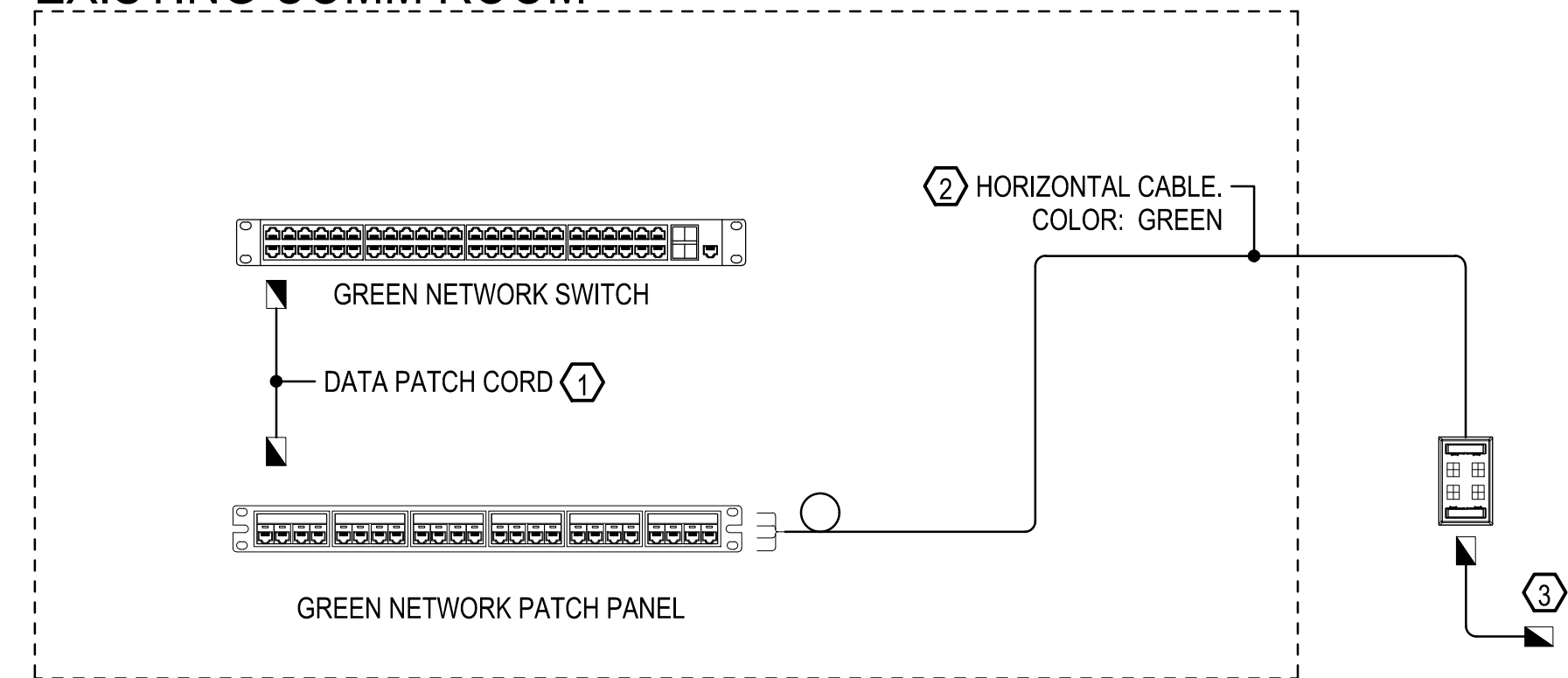
RISER DIAGRAM COMPONENTS LEGEND

-  OFOI OR GFGI NETWORKING EQUIPMENT.
-  EXISTING 24 PORT PATCH FOR HORIZONTAL CABLING.
-  RJ45 CONNECTOR
-  COPPER TERMINATION TO DISTRIBUTION BLOCK OR TERMINATION TO THE REAR OF THE PATCH PANEL.
-  CONTINUATION SYMBOL
-  10' OF SLACK NEATLY COILED WITHIN TR LADDER TRAY.
-  WORKSTATION OUTLET

SHEET NOTES

- 1 COPPER PATCH CORD; 24 AWG 4-PAIR PRE-MANUFACTURED, FACTORY TERMINATED AND TESTED. PROVIDE QUANTITY AS REQUIRED, PLUS 25% SPARE. PATCH CORD TYPE TO MATCH SERVING DEVICES. COLOR INDICATED ON DIAGRAM. COORDINATE FINAL PATCH CORD PATCH CORD REQUIREMENTS WITH TECHNICAL REPRESENTATIVE (UNO).
- 2 24 AWG 4-PAIR HORIZONTAL COPPER CABLE, PLENUM RATED PER NFPA. PROVIDE (1) CABLE PER JACK. CABLE TYPE: CATEGORY 6, CABLE COLOR: INDICATED ON DIAGRAM, CABLE SHIELDING: UTP. COORDINATE FINAL HORIZONTAL COPPER CABLING REQUIREMENTS WITH TECHNICAL REPRESENTATIVE (UNO).
- 3 24 AWG 4-PAIR WORKSTATION EQUIPMENT CORD, PLENUM RATED PER NFPA. PROVIDE (1) CABLE PER JACK. CABLE TYPE: CATEGORY 6, CABLE COLOR: GREEN, CABLE SHIELDING: UTP. COORDINATE FINAL WORKSTATION EQUIPMENT CORD REQUIREMENTS WITH TECHNICAL REPRESENTATIVE (UNO). FINAL LENGTHS SHALL BE COORDINATED WITH 96 CS PRIOR TO ORDERING MATERIAL.

EXISTING COMM ROOM



REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
AS-BUILT		EXPANSION OF WAREHOUSE STORAGE CAPACITY BUILDING 11670		
DATE _____		TITLE _____		
SIGNATURE _____		DRAWN BY: DCC		
APPROVED _____		PROJ. ENGR_DMB		
CENM _____		CONTENTS COMMUNICATIONS RISER		
APPROVED _____		DATE 14 JUNE 2024		
96 CEG/CEN		APPROVED _____		
APPROVED _____		SCALE AS SHOWN		
BASE CIVIL ENGINEER		SPEC. NO. _____		
PROJ. NO. FTFA 23VH48		DRAWING NO. _____		FILE NO. _____

INDEX NO.
T-601