



**PROFESSIONAL CERTIFICATION**  
 I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.  
 LICENSE NO. 3746      EXPIRATION DATE 11/21/2025  
**RK&K** 700 EAST PRATT STREET, SUITE 500  
 BALTIMORE, MARYLAND 21202  
 800.787.3755

NO.	DESCRIPTION	BY	DATE
1	REISSUED FOR BID - ADDENDUM NO. 3		02/06/2024

TOWN OF EMMITSBURG, MARYLAND  
 WATER PLANT CLARIFIER  
 CIP NO.: 4-1600-40-160-1  
 HAMPTON VALLEY ROAD, EMMITSBURG ELECTION DISTRICT NO. 5, FREDERICK COUNTY, MARYLAND  
**LIFE SAFETY / CODE REVIEW**

ENGINEER DW	CHECKED BY JCM
DRAWN BY SS	DATE 1/2024
RK&K PROJECT NUMBER 20119	

DRAWING NUMBER  
**A-01**  
 SHEET NO. 26 OF 42

**LIFE SAFETY CODE REVIEW**

PROJECT NAME AND ADDRESS: WATER TREATMENT PLANT CLARIFIER, TOWN OF EMMITSBURG, MARYLAND  
 REFERENCED CODES: 2018 INTERNATIONAL BUILDING CODE  
 2018 INTERNATIONAL BUILDING CODE

USE AND OCCUPANCY CLASSIFICATION: FACTORY INDUSTRIAL GROUP F-1 (MODERATE-HAZARD FACTORY INDUSTRIAL/  
 NON-SPRINKLERED: SPRINKLERS NOT REQUIRED PER 903.2.4)

CONSTRUCTION TYPE: II-B  
 ALLOWABLE BUILDING HEIGHT (FT. ABOVE GRADE): ALLOWED: 55' MAX ACTUAL: 20'-0"

ALLOWABLE NUMBER OF STORIES (FT. GRADE PLANE): ALLOWED: 2 STORIES ACTUAL: 1 STORY

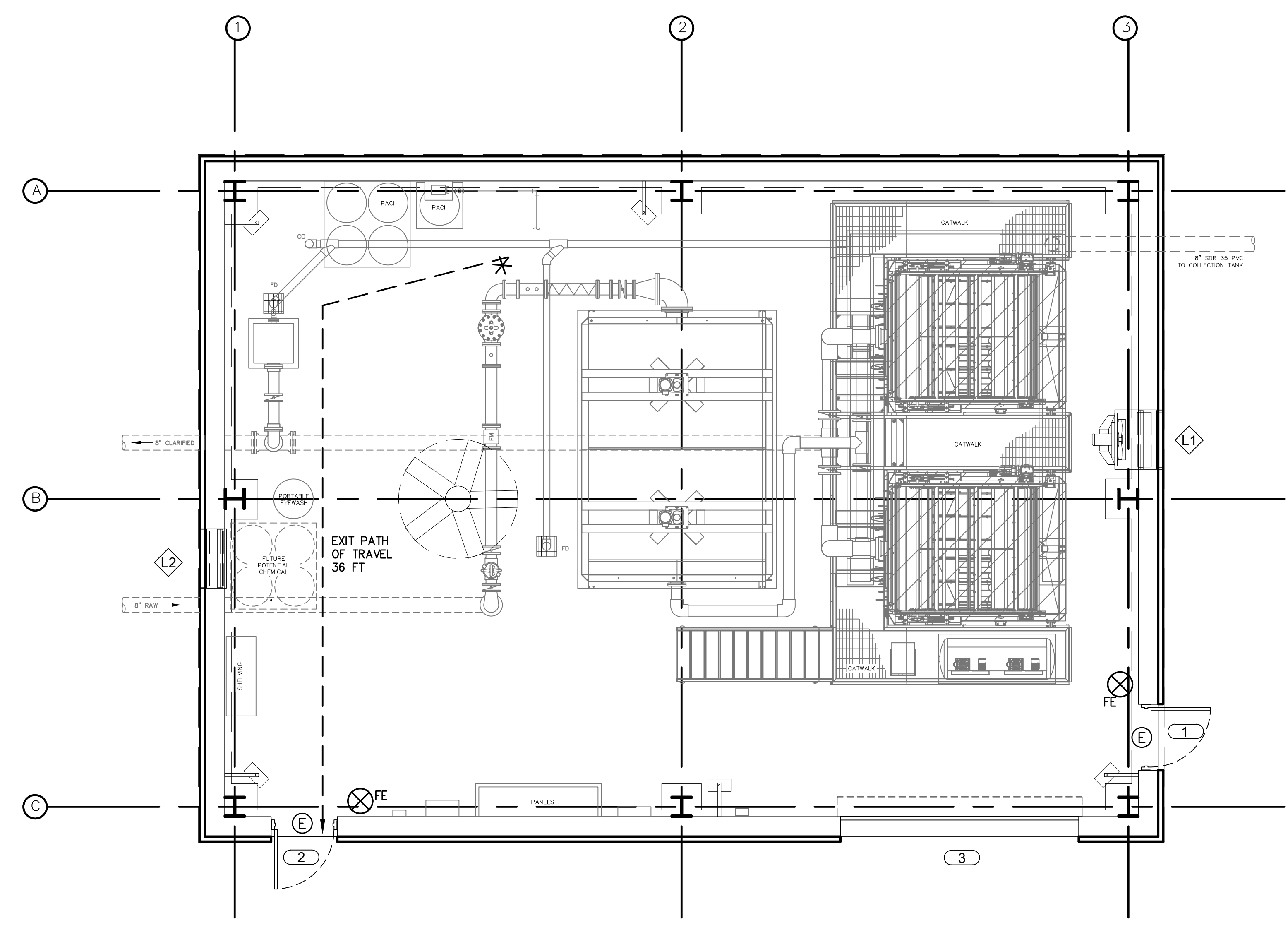
ALLOWABLE AREA FACTOR (SF): ALLOWED: 15,500 SF ACTUAL: 1,632 SF

MEANS OF EGRESS:  
 MAX FLR AREA ALLOWANCE / OCCUPANT: 100 GROSS 16 OCCUPANTS  
 MINIMUM DOOR WIDTH: 32" 36" MIN PROVIDED  
 NUMBER OF EXITS REQD 1 ALLOWED (75'MAX) 2 PROVIDED  
 EXIT ACCESS TRAVEL DISTANCE 150 FT MAX 36 FT

	R-VALUE REQUIRED	R-VALUE DESIGN	
ROOF	R-30ci	ROOF PANEL: BASIS OF DESIGN NUCOR High Rib HR3	R-35
Metal Building	R-13 + R-13ci	WALL PANEL: BASIS OF DESIGN NUCOR Double Mesa Profile DM40	R-26.2
Mass Wall	R-9.5ci	12" CMU and Core-Fill 500	R-11
UNHEATED SLAB	R10 FOR 24" BELOW	Slab on Grade Floor 2" Ridge Insulation 24" below grade minimum	R-10

**LEGEND**

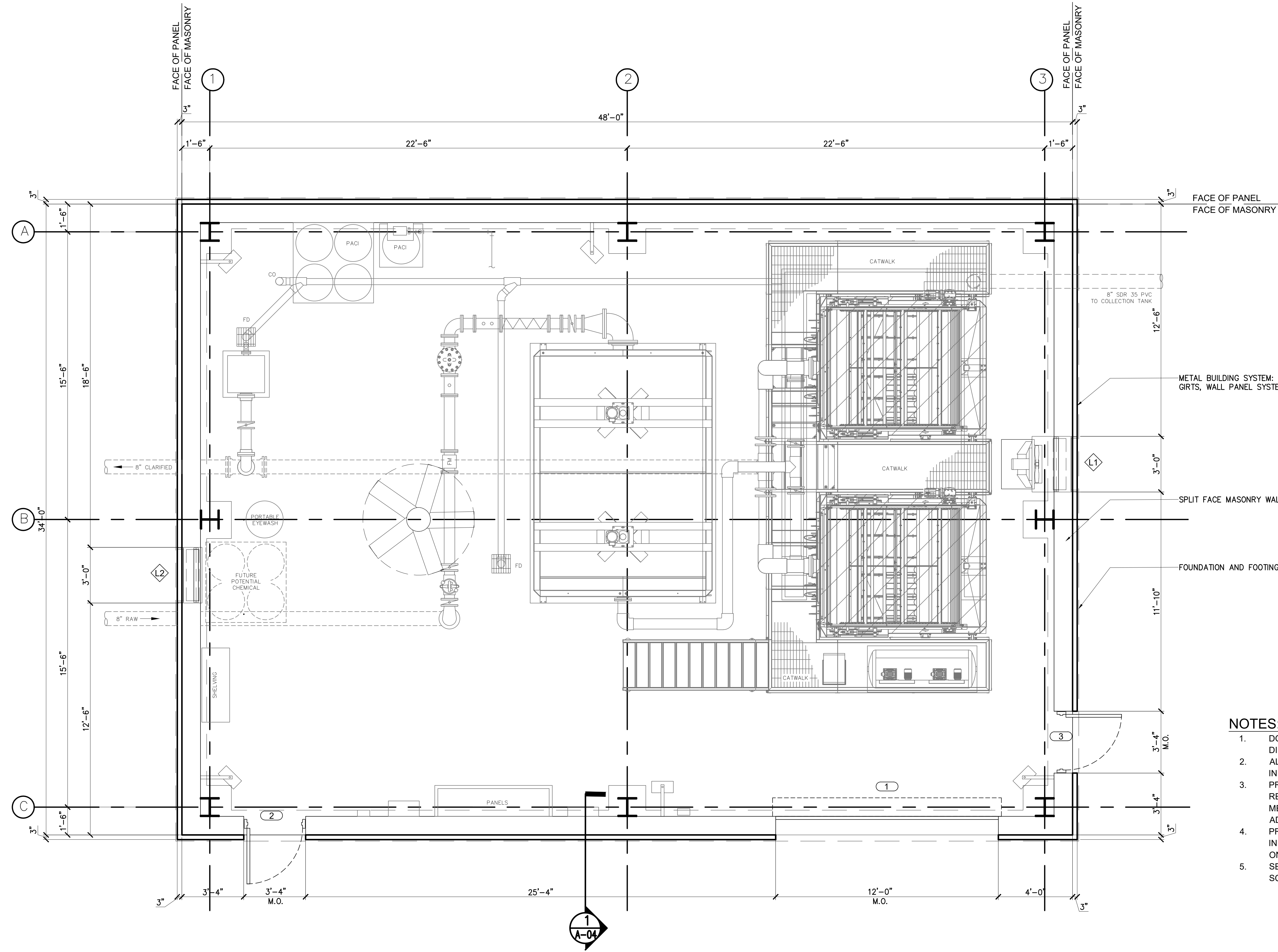
- (E) EXIT
- \* MAX EXIT PATH OF =
- DOOR NUMBER - SEE DOOR SCHEDULE
- ◇ LOUVER NUMBER - SEE MECHANICAL DRAWNGS
- ⊗ FE FIRE EXTINGUISHER



**1 FLOOR PLAN**  
 SCALE: 1/4"=1'-0"

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- NOTES:**
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENT.
  - ALL EXISTING CONDITIONS TO BE VERIFIED IN FIELD.
  - PRE-ENGINEERED BUILDING SHOWN FOR REFERENCE. SEE SPECIFICATION 133419 METAL BUILDING SYSTEMS FOR ADDITIONAL INFORMATION.
  - PROCESS MECHANICAL AND STRUCTURAL INFORMATION SHOWN FOR REFERENCE ONLY. SEE PM AND S DRAWINGS.
  - SEE MECHANICAL DRAWINGS FOR LOUVER SCHEDULE

**1 FLOOR PLAN**  
SCALE: 3/8"=1'-0"



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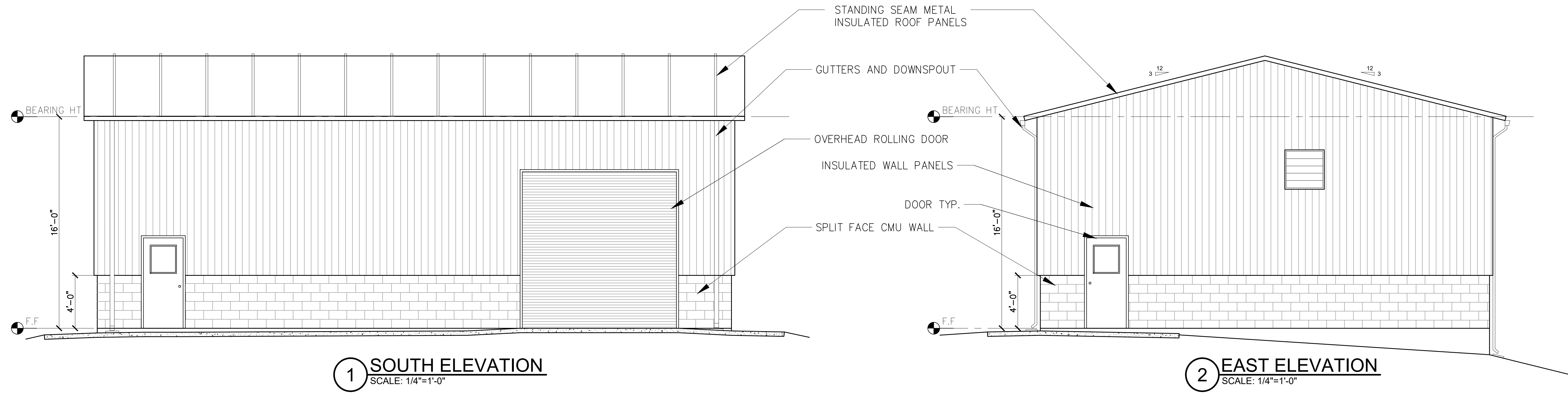
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**WATER PLANT CLARIFIER**  
CIP NO: 4-1600-40-160-1  
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ENGINEER	CHECKED BY
DW	JCM
DRAWN BY	DATE
SS	1/2024
RK&K PROJECT NUMBER	
20119	

DRAWING NUMBER  
**A-02**  
SHEET NO. 27 OF 42

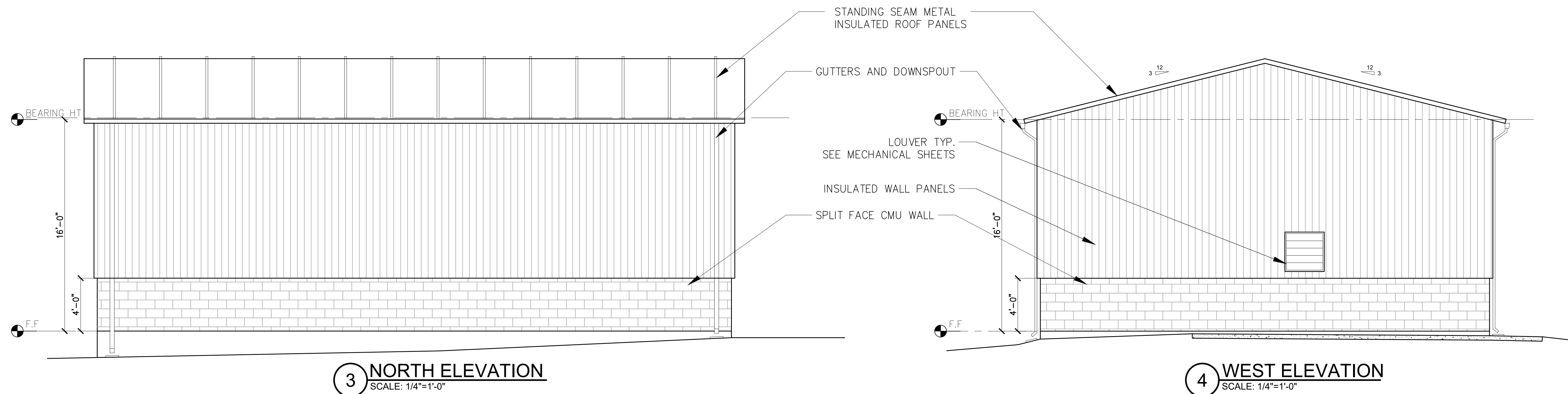


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**1 SOUTH ELEVATION**  
SCALE: 1/4"=1'-0"

**2 EAST ELEVATION**  
SCALE: 1/4"=1'-0"



**3 NORTH ELEVATION**  
SCALE: 1/4"=1'-0"

**4 WEST ELEVATION**  
SCALE: 1/4"=1'-0"

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**BUILDING ELEVATIONS**

ENGINEER	CHECKED BY
	JCM
DRAWN BY	DATE
	1/2024
RKM&K PROJECT NUMBER	
20119	

DRAWING NUMBER
<b>A-03</b>
SHEET NO. XX OF 42



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**DETAILS AND DOOR SCHEDULE**

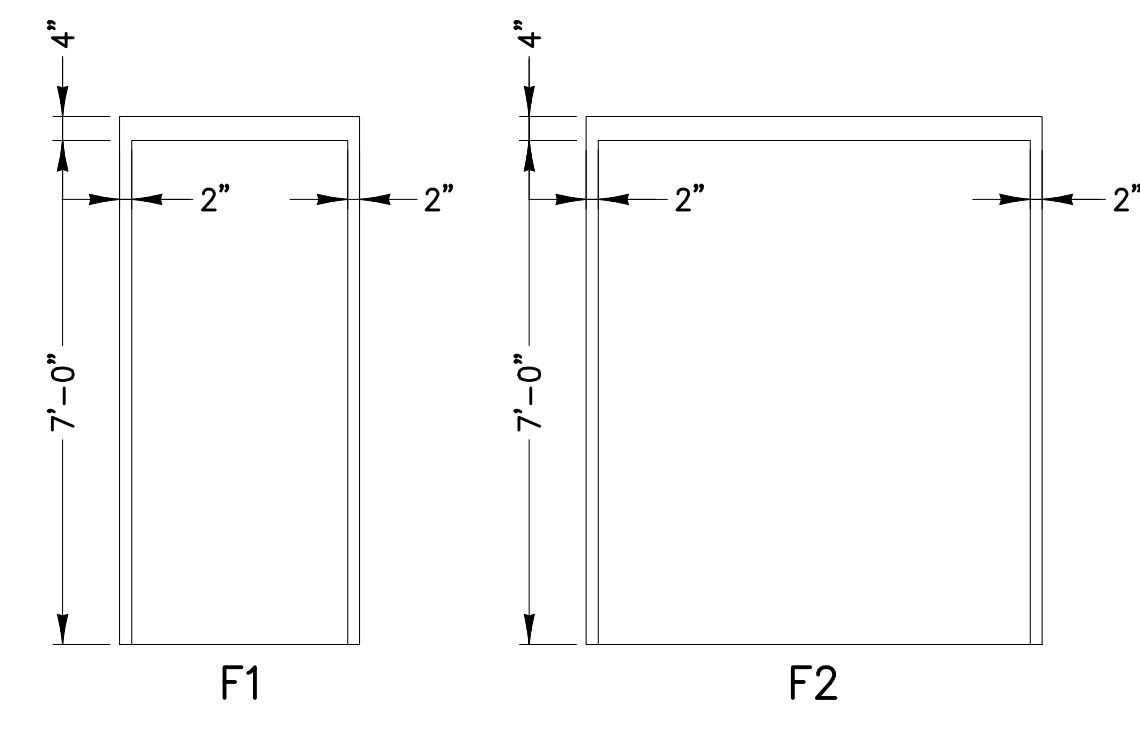
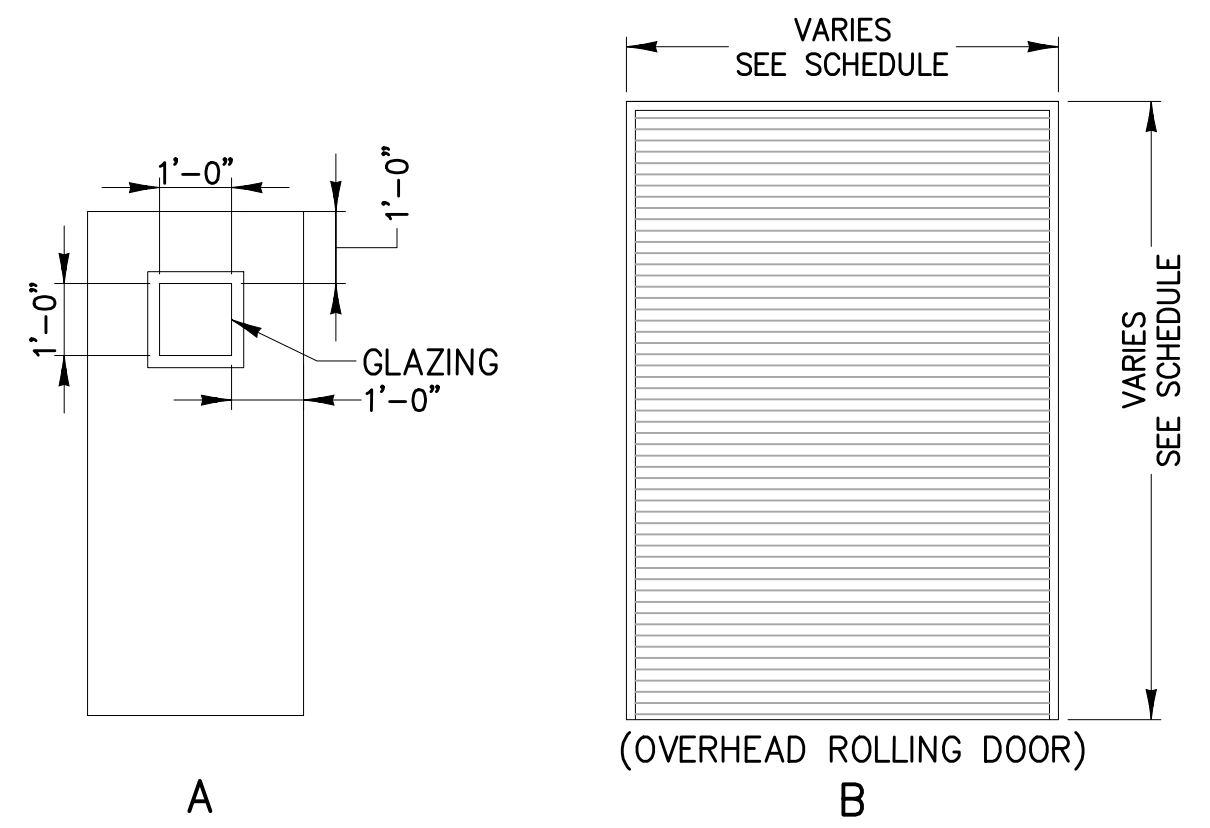
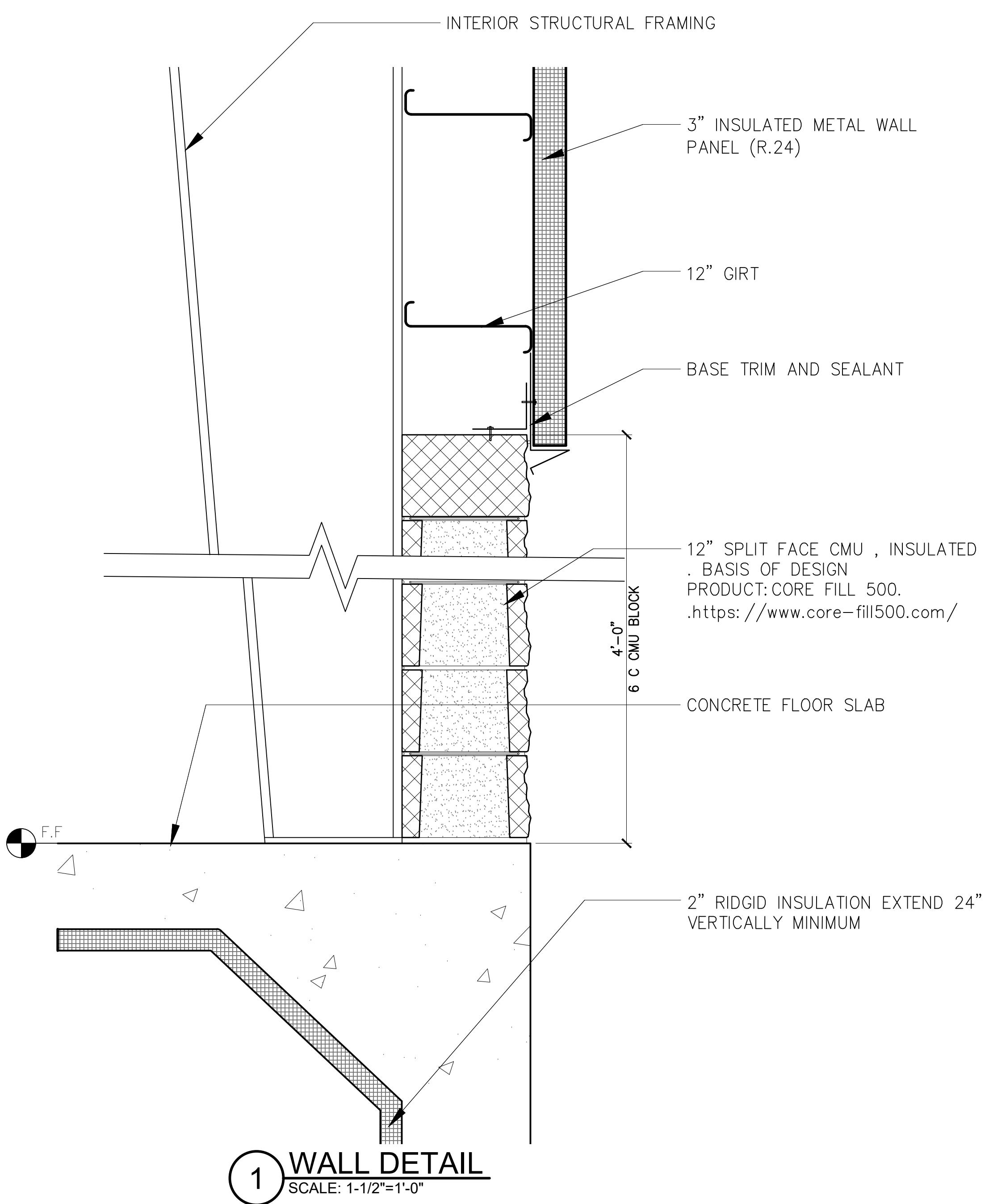
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DRAWING NUMBER  
**A-04**  
 SHEET NO. 29 OF 42

### NEW DOOR SCHEDULE

NO.	FRAME		DOOR				FIRE LABEL	HDWR NO	REMARKS
	TYPE	MATL	TYPE	MATL	WIDTH	HEIGHT			
1	-	-	B	STL	12'-0"	12'-0"	-	-	HARDWARE BY OVERHEAD DOOR MANUFACTURER
2	F1	FRP	A	FRP	3'-0"	7'-0"	1-3/4"	-	-
3	F1	FRP	A	FRP	3'-0"	7'-0"	1-3/4"	-	-

DOOR/ FRAME MATERIAL	
AL	ALUMINUM
FRP	FIBERGLASS REINFORCED PLASTIC
HM	HOLLOW METAL
STL	STEEL



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