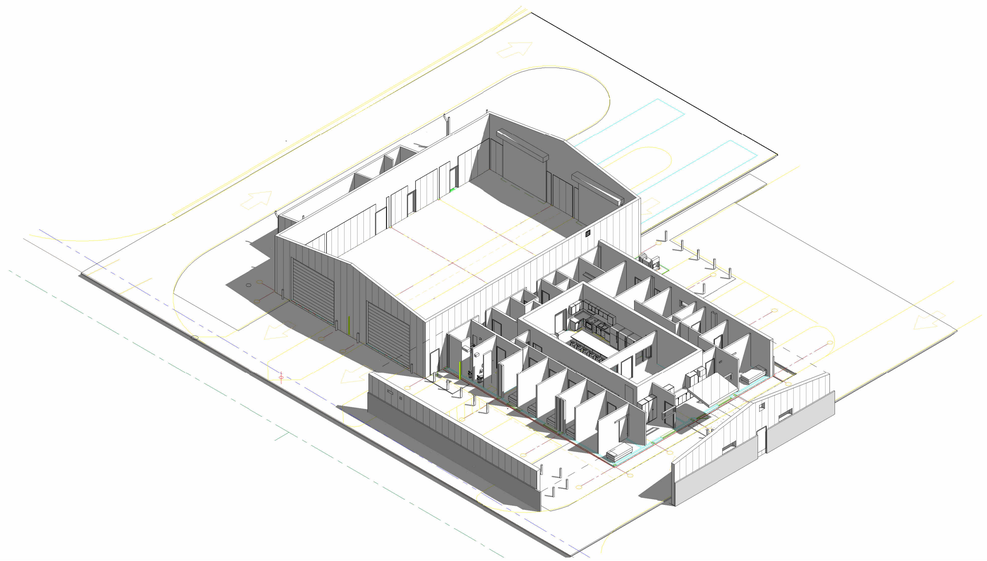
FIRE STATION 3 - 100% SET DECEMBER 19, 2025

CITY OF CRESTVIEW

GRAPHIC LEGEND

- CONCRETE
- SHOWER
- ADA SHOWER
- TOILET
- DRINKING FOUNDTAINS
- MW1 — MILLWORK
- OVERHEAD COILING DOOR
- 101 — NEW DOOR - SEE SCHEDULE
- CASED OPENING
- NEW STUD WALL
- NEW MASONRY WALL
- A — WINDOW
- EXISTING WALL
- DEMOLISHED WALL
- DEMOLISHED DOOR
- ACOUSTICAL CEILING
- DEMOLISHED FLOOR SLAB

RENDER



585 BROOKMEADE DRIVE, CRESTVIEW, FL

EXISTING BUILDING

SHEET INDEX

SYMBOLS LEGEND (SOME SYMBOLS MAY NOT BE USED)

- 1 — DETAIL NUMBER
- B / A4 — BUILDING SECTION/ WALL SECTION
- 1 / A4 — BUILDING ELEVATION/INTERIOR ELEVATION
- 206 — ROOM NUMBER
- 105 — DOOR NUMBER
- A — WINDOW TYPE
- A — WALL TYPE
- ELEVATION
- 1 — PHOTOGRAPH
- 1 — DEMOLITION NOTE
- 1 — CONSTRUCTION NOTE
- 1 / A4 — DETAIL NUMBER SHEET NUMBER

PROJECT DESCRIPTION

THE EXTERIOR SCOPE OF THE PROJECT WILL INCLUDE INFILLING THE WINDOWS ON THE WEST, REPLACING THE BAY DOORS, AND AN ADDITION TO THE NORTH OF THE BUILDING FOR THE GEAR STORAGE AND DECONTAMINATION AREA.

THE INTERIOR SCOPE OF THE PROJECT WILL INCLUDE A NEW LAYOUT FOR THE BUNK ROOMS, SHOWER ROOMS, DAY ROOM, AND LAUNDRY ROOM. THE MECHANICAL SYSTEM WILL BE REWORKED WITH NEW DUCT LAYOUT. THE LIGHTING AND CEILINGS WILL BE REPLACED.

FLORIDA BUILDING CODE INFORMATION

THIS PROJECT IS DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, EXISTING BUILDINGS, EIGHT EDITION (2023). - THIS PROJECT IS CONSIDERED A LEVEL 3 ALTERATION AND ADDITION

FLORIDA PLUMBING CODE, 2023 EIGHTH EDITION

FLORIDA FIRE PREVENTION CODE 2023 EIGHTH EDITION

FLORIDA MECHANICAL CODE, 2023 EIGHTH EDITION

FLORIDA ENERGY CODE (FEC) 2023 EIGHTH EDITION

FLORIDA ACCESSIBILITY CODE, 2023 EIGHTH EDITION

NATIONAL ELECTRIC CODE 2020 EDITION

PRODUCT APPROVAL NUMBERS

CATEGORY/SUBCATEGORY	MANUFACTURER	PRODUCT DESCRIPTION	APPROVAL NUMBER
PANEL WALLS / STOREFRONTS	KAWNEER	IR501 ALUMINUM STOREFRONT SYSTEM	FL8787.2
EXTERIOR DOORS / EXTERIOR DOOR COMPONENTS	CECO DOORS	SWINGING HOLLOW METAL DOORS AND FRAMES	FL10732.1
ROOFING/ PRODUCTS INTRODUCED AS A RESULT OF ANEW TECHNOLOGY	ELITE ALUMINUM CORPERATION	3"X0.032X1LB ESP COMPOSITE PANEL	FL7561.1
ROOFING / METAL ROOFING	PETERSON ALUMNUM	.032 X12" THRU 19" WIDE ALUMNUM PANEL OVER STEEL DECK	FL24423.6
ROOFING / UNDERLAYMENTS	PETERSON ALUMNUM	ASTM D 1970 SELF- ADHERING ROOF UNDERLAYMENT	FL41144.1
PANEL WALLS / SOFFITS	PETERSON ALUMNUM CORP	PAC-850 ALUMNUM SOFFIT X 12" WIDE, .032: (MIN) SOLID	FL23157.6

THESE ITEMS REPRESENT THE BASIS FOR THE DESIGN. EACH SECTION OF THE SPECIFICATIONS LISTS EQUAL PRODUCTS. THE EQUALS ARE REQUIRED TO HAVE PRODUCT APPROVAL NUMBERS SUBMITTED AS WELL.

CONSULTANTS

MECHANICAL/PLUMBING FIRE PROTECTION
WATFORD ENGINEERING
4452 CLINTON STREET
MARIANNA, FL 32446
P: (850) 526-3447

ELECTRICAL/TELECOM
HG ENGINEERS
4286 WOODBINE RD, SUITE D
PACE, FL 32571
P: (850) 243-6723

STRUCTURAL
TRUE NORTH STRUCTURAL ENGINEERING
5800 GLENBY CT.
PACE, FL 32571
P: (850) 696-6784

Ajax BUILDING CORPORATION

GMC

FIRE STATION 3
585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

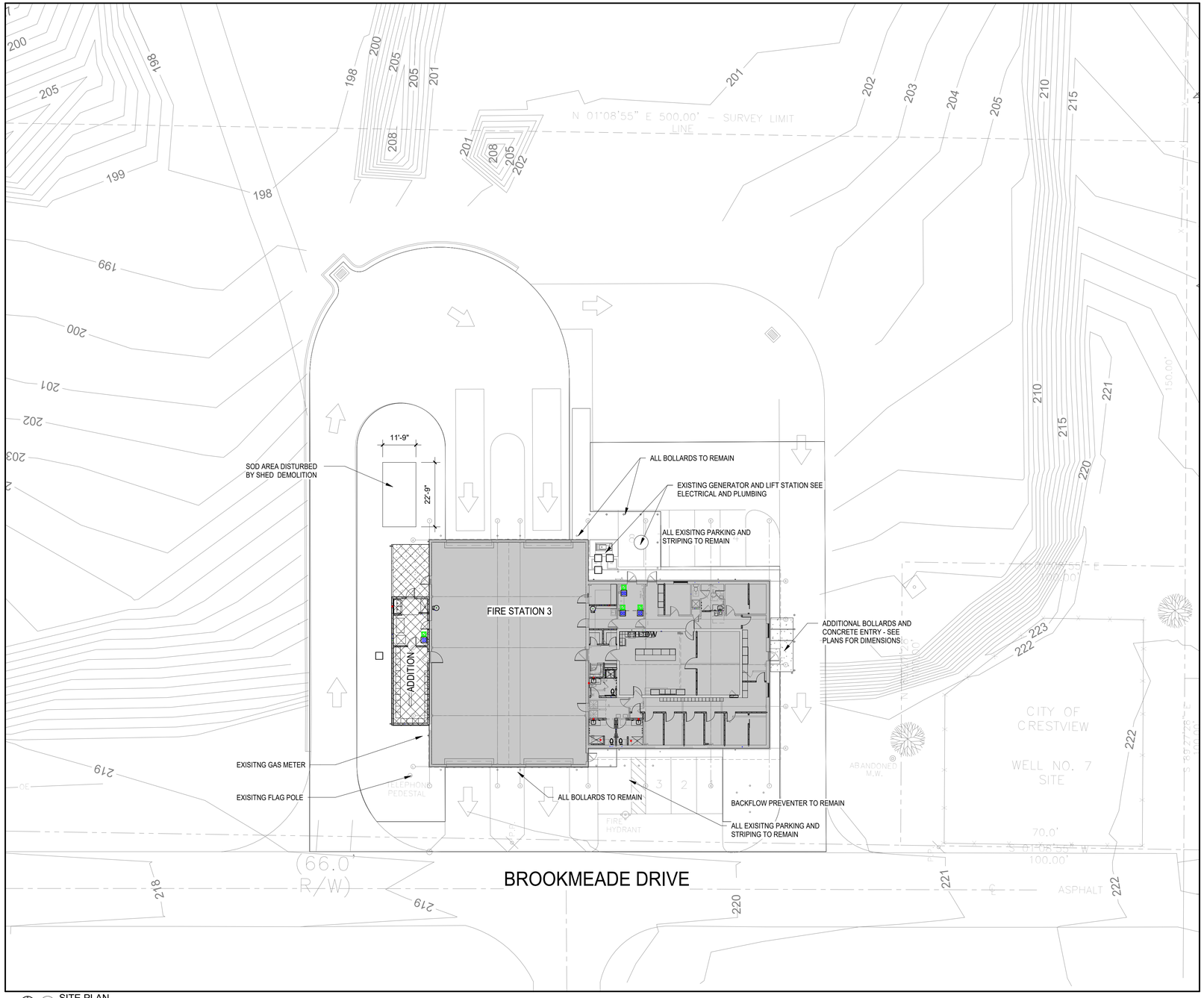
TITLE SHEET
INDEX
ABBREVIATIONS
VICINTY MAP

Date	12/19/2025
Drawn By	MM
Checked By	JF

A001

GENERAL NOTES
1 FIELD VERIFY ALL DIMENSIONS SIZES
2 COORDINATE (ALL LIGHTS DIFFUSERS, AND GRILLES) WITH ELECTRICAL AND MECHANICAL

LEGEND
NEW CONSTRUCITON
EXISTING TO BE RENOVATED



N 1 SITE PLAN
1" = 20'-0"

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

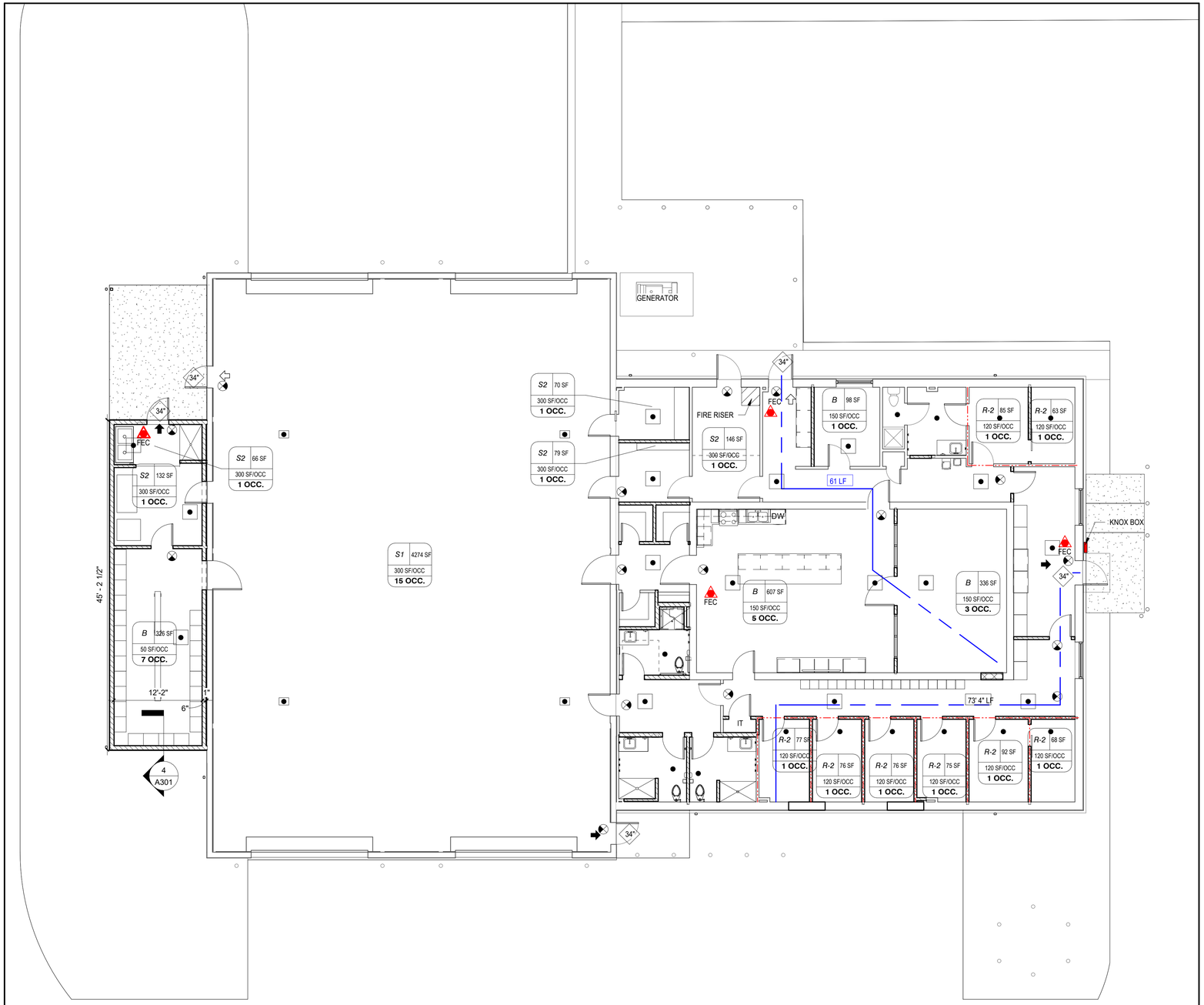
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

SITE PLAN

Date	12/19/2025
Drawn By	LM
Checked By	MM

A011



8,810 SQ. FT

1 LIFE SAFETY
1/8" = 1'-0"

APPLICABLE CODES

FLORIDA BUILDING CODE EXISITNG, 8TH EDITION (2023)
FLORIDA BUILDING CODE (FBC), 8TH EDITION (2023)
FLORIDA ACCESSIBILITY CODE, 8TH EDITION (2023)
FLORIDA FIRE PREVENTION CODE, 8TH EDITION (2023)
FLORIDA MECHANICAL CODE, 8TH EDITION (2023)
NATIONAL ELECTRIC CODE, NFPA 70 (2008)
NFPA 101, LIFE SAFETY CODE

OCCUPANCY CLASSIFICATION

MIXED
B - BUSINESS, R-2 - RESIDENTIAL, S-1 STORAGE, S-2 STORAGE

SEPARATED OCCUPANCIES
FBC TABLE 508.4
BUSINESS & RESIDENTAIL, AUTOMATIC SPRINKLER SYSTEM 1 HOUR

STORAGE -1 & RESIDENTIAL AUTOMATIC SPRINKLER SYSTEM 1 HOUR

FOR NON SEPERATED OCCUPANCIES THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 SHALL APPLY TO ALL

FBC 420.2 WALLS SEPARATING DWELLING UNITS IN THE SAME BUILDING, WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDINGS AND WALLS SEPERATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUIOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS.

CONSTRUCTION

TYPE IIB-SPRINKLED (FBC SECTION 602.2)
ALLOWABLE BUILDING HEIGHT - 55 FEET
BUILDING HEIGHT - 23.5 FEET
ALLOWABLE NUMBER OF STORIES - 3
NUMBER OF STORIES - 1
ALLOWABLE AREA PER STORY - 64,000 SQ.FT.
BUILDING AREA - 8,810 SQ.FT.
ALLOWABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE-250'
EGRESS TRAVEL DISTANCE -61'

OCCUPANT LOAD SCHEDULE

OCCUPANCY	SQUARE FEET	OCC LOAD	
MIXED	SQ FT. 8810	44	

EGRESS WIDTH REQUIRED
DOORS 44 OCC. X 0.2 = 8.8" 36" MIN
TOTAL DOOR OPENINGS 136"

LOCAL FIRE DEPT. REQUIREMENTS

KNOX BOX SHALL BE 4400 SERIES SURFACE MOUNTED BOX.

THE OWNER SHALL PROVIDE COPIES OF ALL MASTER KEYS, GATE KEYS, ELECTRONIC ACCESS CARDS TO STORE IN THE KNOX BOX FOR EMERGENCY ACCESS USE.

ALL ELECTRICAL AND MECHANICAL ROOMS SHALL BE CLEARLY NUMBERED WITH A SIGN THAT MEETS NFPA STANDARDS AND INCLUDES THE PHRASE "NO STORAGE ALLOWED".

FIRE RISER ROOM SHALL BE CLEARLY IDENTIFIED FOR FIRE DEPARTMENT PERSONNEL.

PLUMBING FIXTURES PER FLORIDA PLUMBING CODE (403.1)

BUSINESS (INCLUDES BUSINESS AREAS). = 44 OCCUPANTS

A. WATER CLOSETS 1/50 = 1 REQ. 4 PROV.
B. LAVATORIES 1/50 = 1 REQ. 4 PROV.
C. DRINKING FOUNTAINS 1/100 = 1 REQ. 1 PROV.
D. SERVICE SINK 1 REQ. 1 PROV.

LIFE SAFETY LEGEND

- FE — FIRE EXTINGUISHER CABINET (PROVIDE 1 EA. MP10 UL RATED 4A-60B-C EXTINGUISHER) MOUNT PER MFG RECOMMENDATION FOR ADA
- 36" — DOOR WIDTH
- 20. MIN DOOR FIRE RATING
- PRIMARY EXIT
- SECONDARY EXIT
- 1 HOUR RATED WALL
- EXIT ACCESS
- EMERGENCY LIGHT
- EMERGENCY LIGHT
- EXIT LIGHT
- XX LF — PATH OF EGRESS TRAVEL DISTANCE
- E — OCCUPANCY
- 100 SF — AREA
- 20 SF/OCC — LOAD FACTOR
- 5 OCC — OCCUPANT LOAD PER AREA

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

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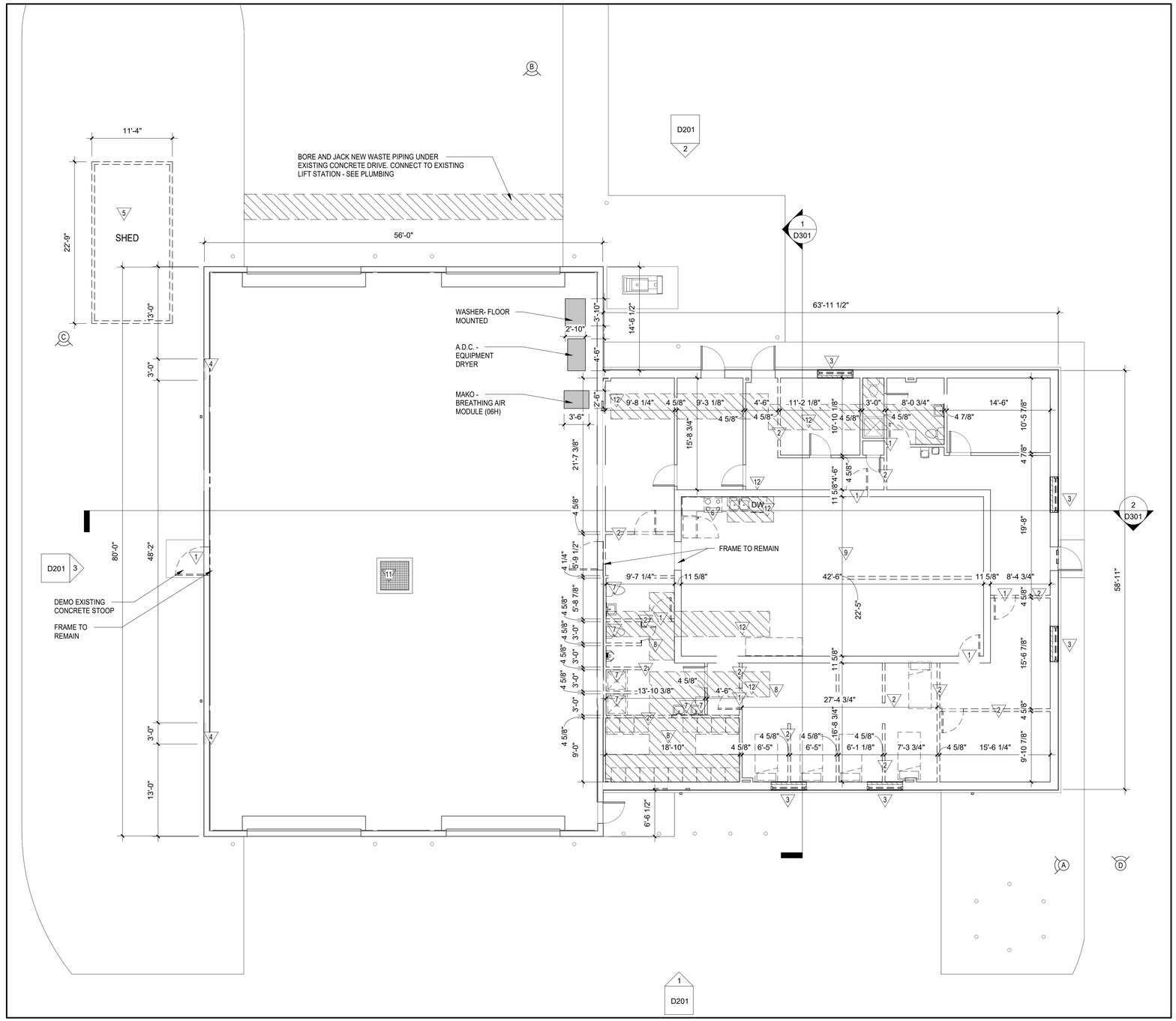
No.	Description	Date

LIFE SAFETY PLAN

Date 12/19/2025
Drawn By LM
Checked By MM

LS101



1 DEMOLITON FLOOR PLAN
1/8" = 1'-0"

DEMO WORK NOTES

PROTECT EXISTING FLOORING TO REMAIN

PROTECT AND MAINTAIN EXISTING SPRINKLER PIPING

FIELD VERIFY ALL DIMENSIONS

DEMO WORK NOTES

1. DEMO DOOR.
2. DEMO WALL
3. DEMO WINDOW
4. DEMO LOUVER
5. DEMO SHED AND CLEAR FOUNDATION (14 DAYS BEFORE SUBSTANTIAL COMPLETION)
6. DEMO COUNTER AND CABINETRY - PROTECT CONNECTIONS
7. DEMO PLUMBING - SEE PLUMBING
8. DEMO FLOORING
9. DEMO OVERHEAD TRACK FOR MOVABLE CURTAIN
10. DEMO ALL CEILINGS - SEE ELECTRICAL MECHANICAL AND FIRE PROTECTION
11. PROTECT EXISTING SANITARY INLETS FROM CONSTRUCTION DEBRIS
12. DEMO EXISTING FLOOR SLAB FOR PLUMBING - SEE PLUMBING FOR FINAL LOCATIONS

CITY OF CRESTVIEW, FLORIDA
The Hub City of Northwest Florida
OKALOOSA COUNTY 1916

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FIRE STATION 3

585 BROOKMEADE DR,
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SEAL

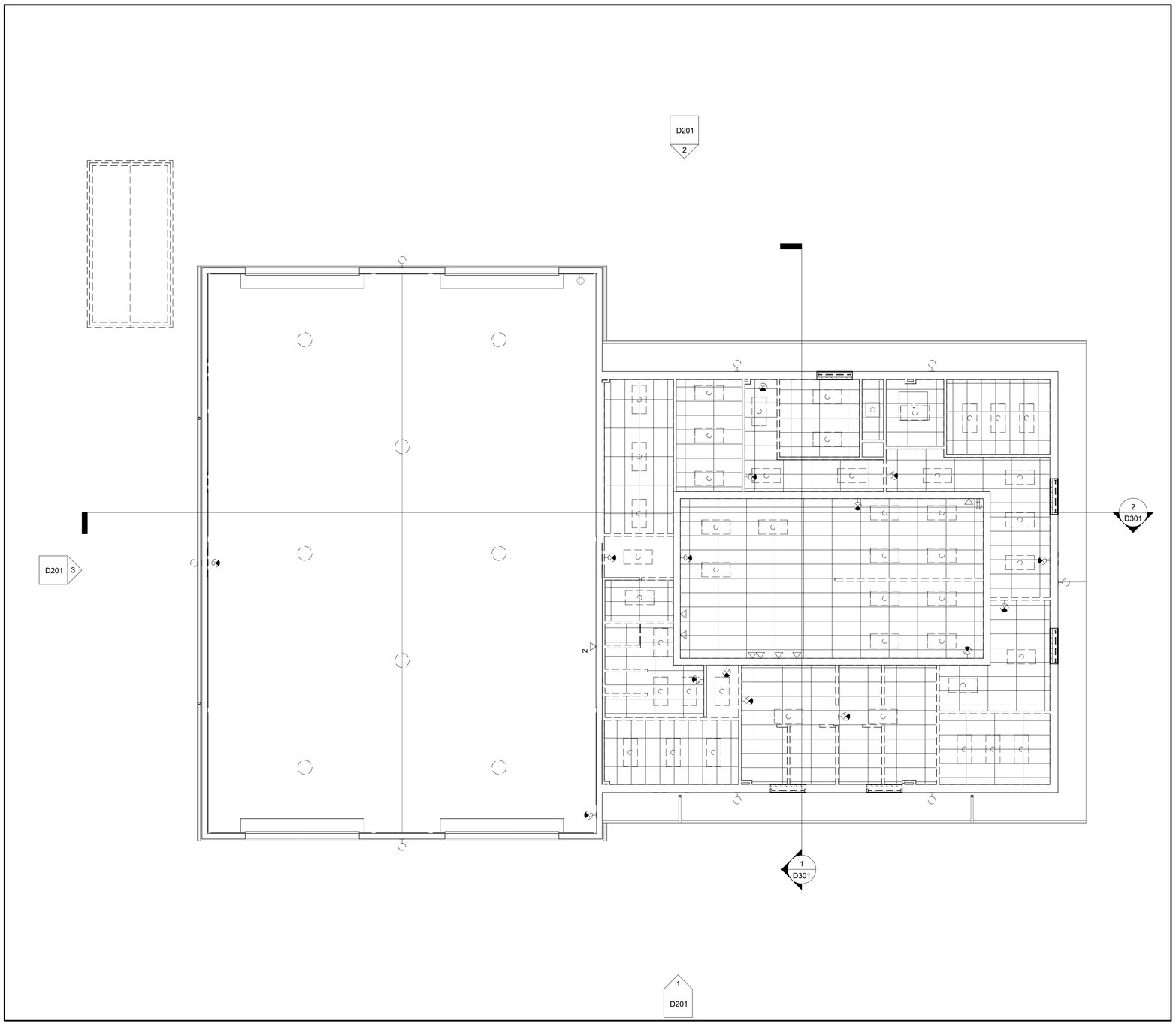
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

DEMOLITION FLOOR PLAN

Date	12/19/2025
Drawn By	LM
Checked By	MM

D101



1 DEMOLITION CEILING PLAN
1/8" = 1'-0"

DEMO WORK NOTES

PROTECT EXISTING FLOORING TO REMAIN

PROTECT AND MAINTAIN EXISTING SPRINKLER PIPING

FIELD VERIFY ALL DIMENSIONS

DEMO CEILING PLAN NOTES

1 DEMO ALL EXISTING CEILINGS AND CEILING BATT INSULATION ABOVE CEILINGS. DEMO LIGHTS AND DIFFUSERS - SEE MECHANICAL AND ELECTRICAL

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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

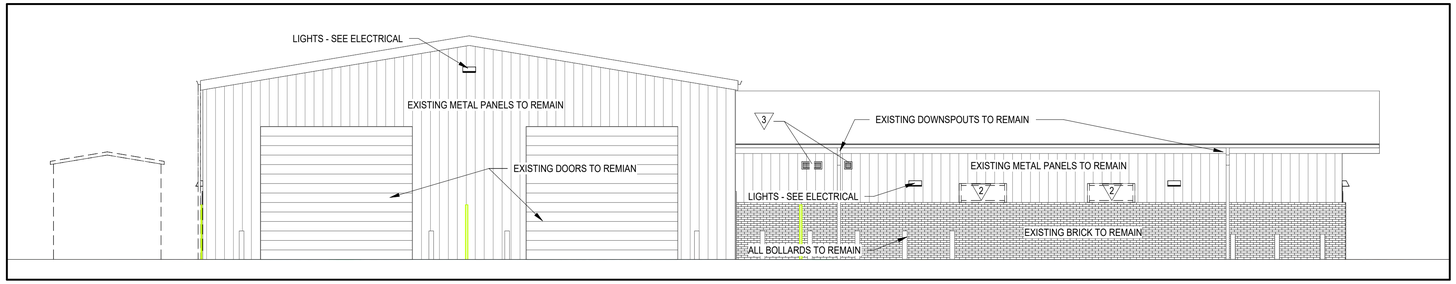
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

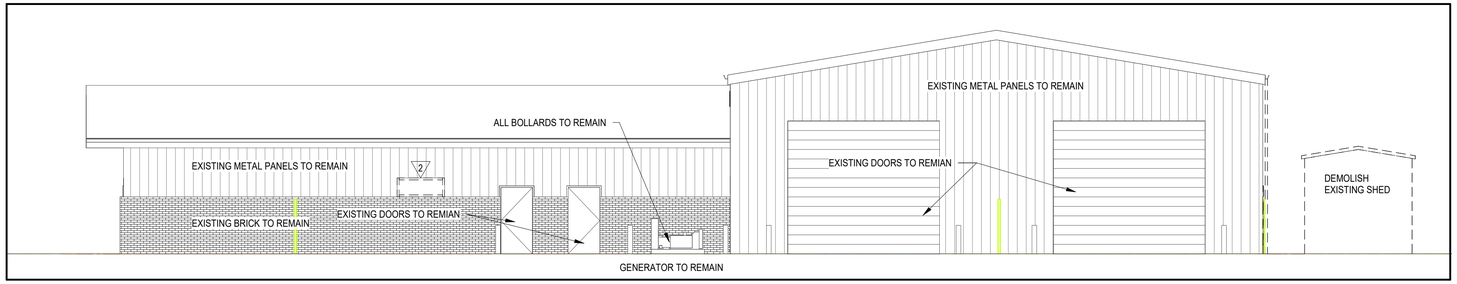
DEMOLITION REFLECTED CEILING PLAN

Date	12/19/2025
Drawn By	LM
Checked By	DA

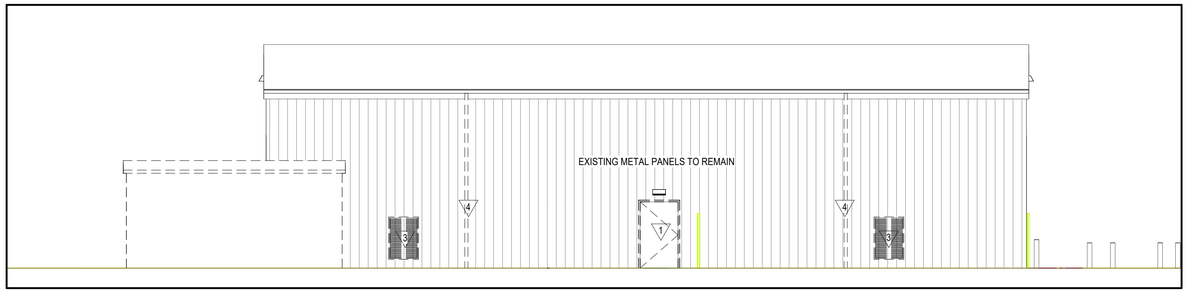
D111



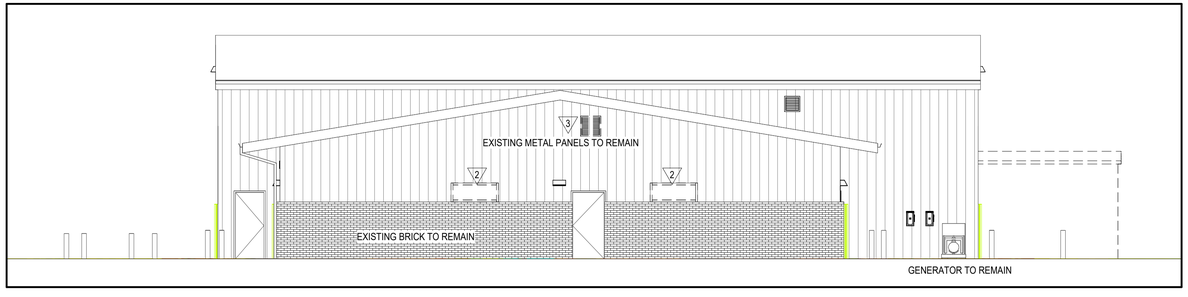
1 WEST - DEMO
1/8" = 1'-0"



2 EAST - DEMO
1/8" = 1'-0"



3 NORTH - DEMO
1/8" = 1'-0"



4 SOUTH - DEMO
1/8" = 1'-0"

DEMO WORK NOTES

PROTECT EXISTING FLOORING TO REMAIN

PROTECT AND MAINTAIN EXISTING SPRINKLER PIPING

FIELD VERIFY ALL DIMENSIONS

DEMO ELEVATION NOTES

1. DEMO EXISTING DOOR FRAME TO REMAIN
2. DEMO WINDOW
3. DEMO LOUVER
4. DEMO DOWNSPOUT


B - WEST ELEVATION


D - EAST ELEVATION


C - NORTH ELEVATION


A - SOUTH ELEVATION

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The Hub City of Northwest Florida
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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

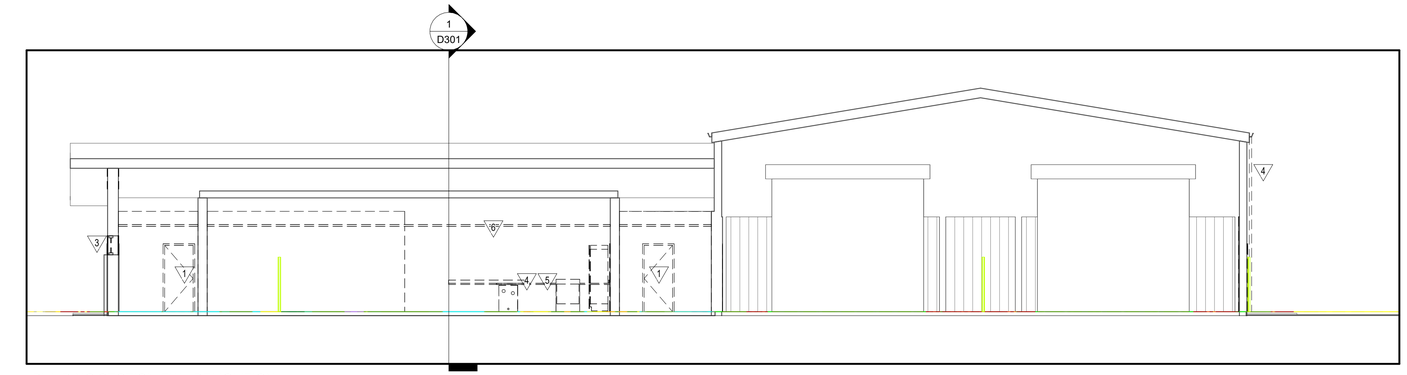
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

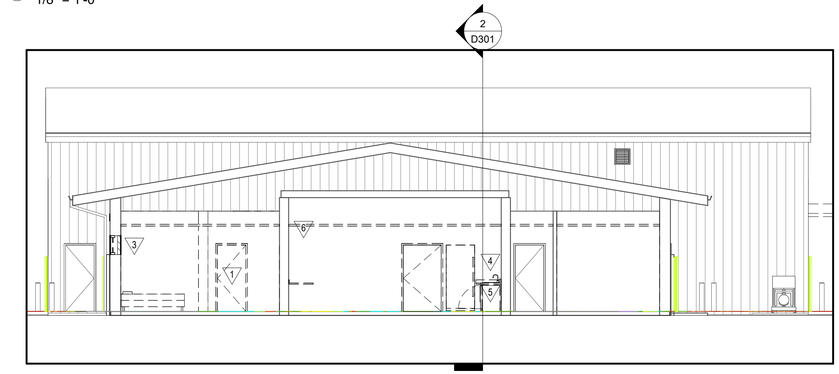
DEMOLITION ELEVATIONS

Date	12/19/2025
Drawn By	LM
Checked By	Checker

D201



2 BUILDING SECTION EW - DEMOLITION
1/8" = 1'-0"



1 BUILDING SECTION NS - DEMOLITION
1/8" = 1'-0"

DEMO WORK NOTES

PROTECT EXISTING FLOORING TO REMAIN

PROTECT AND MAINTAIN EXISTING SPRINKLER PIPING

FIELD VERIFY ALL DIMENSIONS

DEMO WORK NOTES

1. DEMO DOOR.
2. DEMO WALL
3. DEMO WINDOW
4. DEMO COUNTER AND CABINETRY - PROTECT CONNECTIONS
5. DEMO PLUMBING - SEE PLUMBING
6. DEMO ALL CEILINGS - SEE ELECTRICAL MECHANICAL AND FIRE PROTECTION

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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

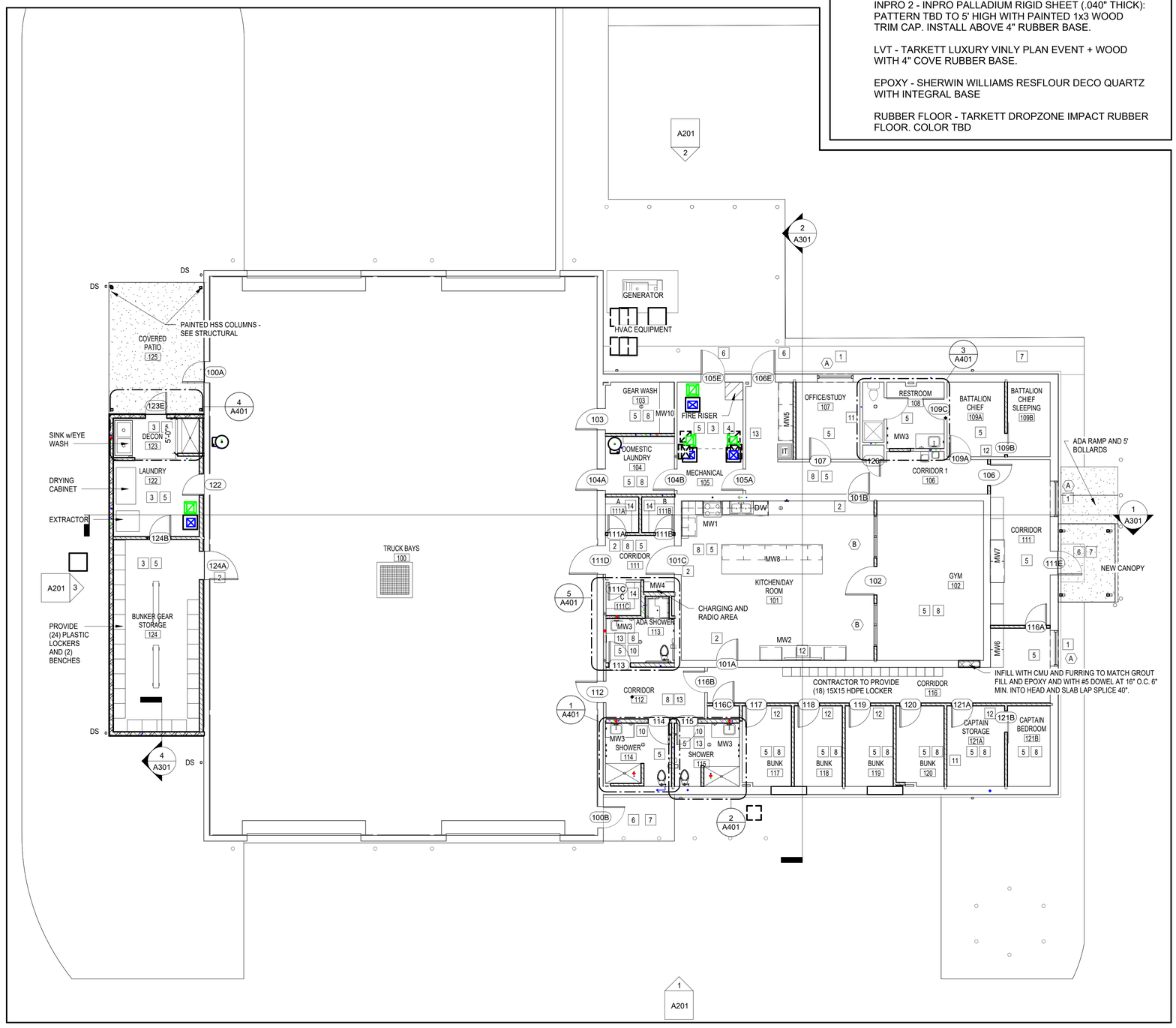
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

DEMOLITION SECTIONS

Date	12/19/2025
Drawn By	LM
Checked By	MM

D301



≈ 2 FLOOR PLAN - NEW WORK
1/8" = 1'-0"

FINISH WORK ABBREVIATIONS

INPRO 1- INPRO PALLADIUM RIGID SHEET (.040" THICK): SOLID COLOR TBD TO 5' HIGH WITH PAINTED 1x3 WOOD TRIM CAP. INSTALL ABOVE 4" RUBBER BASE.

INPRO 2 - INPRO PALLADIUM RIGID SHEET (.040" THICK): PATTERN TBD TO 5' HIGH WITH PAINTED 1x3 WOOD TRIM CAP. INSTALL ABOVE 4" RUBBER BASE.

LVT - TARKETT LUXURY VINLY PLAN EVENT + WOOD WITH 4" COVE RUBBER BASE.

EPOXY - SHERWIN WILLIAMS RESFLOUR DECO QUARTZ WITH INTEGRAL BASE

RUBBER FLOOR - TARKETT DROPZONE IMPACT RUBBER FLOOR. COLOR TBD

GENERAL NOTES

1 FIELD VERIFY ALL DIMENSIONS SIZES

2 COORDINATE (ALL LIGHTS DIFFUSERS, AND GRILLES) WITH ELECTRICAL AND MECHANICAL

NEW WORK NOTES

1 INSTALL NEW WINDOW SYSTEM INTO EXISTING OPENINGS. ANCHOR WINDOWS INTO ADJACENT WALL IN ACCORDANCE WITH FLORIDA PRODUCT APPROVAL NUMBER DESCRIPTION. APPLY SEALANT INSIDE AND OUTSIDE WINDOWS AS INDICATED FOR A WATERTIGHT INSTALLATION

2 INSTALL NEW DOOR INTO EXISTING FRAME.

3 2 PART EPOXY PAINT OVER CONCRETE FLOOR INSIDE MECHANICAL ROOMS AND BASE.

4 SEAL WALLS IN MECHANICAL ROOM

5 PAINT ALL ROOMS

6 PAINT EXTERIOR DOORS AND FRAMES.

7 PRESSURE WASH EXTERIOR AND EXTERIOR SIDEWALK. PERFORM APPROX. 7 DAYS BEFORE SUBSTANTIAL COMPLETION

8 NEW FLOORING - SEE FLOOR SCHEDULE/PLAN

9 PROVIDE AND INSTALL DOOR SIGNS AT EACH ROOM DOOR.

10 MARBLE SILL TRANSITION AT SILLS BETWEEN TILE AND OTHER FLOORING

11 BLOCKING FOR MARKERBOARDS AT 6'4"

12 BLOCKING FOR TV'S AT 6'4"

13 PATCH FLOOR SLAB - SEE DEMO SHEET AND PLUMBING

14 WIRE MESH SHELVING UNITS IN STORAGE ROOMS

ROOM SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	Area
100	TRUCK BAYS	EXISTING			4274 SF
101	KITCHEN/DAY ROOM	LVT	4" RUBBER	INPRO 2	607 SF
102	GYM	RUBBER FLOOR	4" RUBBER	INPRO 1	336 SF
103	GEAR WASH	EPOXY	EPOXY		70 SF
104	DOMESTIC LAUNDRY	EPOXY	EPOXY	INPRO 1	79 SF
105	MECHANICAL	EPOXY			146 SF
106	CORRIDOR 1	LVT	4" RUBBER	INPRO 1	241 SF
107	OFFICE/STUDY	LVT	4" RUBBER	INPRO 1	98 SF
108	RESTROOM	LVT	4" RUBBER	INPRO 2	103 SF
109A	BATTALION CHIEF	LVT	4" RUBBER		85 SF
109B	BATTALION CHIEF SLEEPING	LVT	4" RUBBER		63 SF
111	CORRIDOR	LVT	4" RUBBER	INPRO 1	69 SF
111	CORRIDOR	LVT	4" RUBBER	INPRO 1	195 SF
111A	A	LVT	4" RUBBER		23 SF
111B	B	LVT	4" RUBBER		23 SF
111C	C	LVT	4" RUBBER		23 SF
112	CORRIDOR	LVT	4" RUBBER	INPRO 1	102 SF
113	ADA SHOWER	LVT	4" RUBBER	INPRO 2	70 SF
114	SHOWER	LVT	4" RUBBER	INPRO 2	79 SF
115	SHOWER	LVT	4" RUBBER	INPRO 2	80 SF
116	CORRIDOR	LVT	4" RUBBER	INPRO 1	287 SF
116A	IT	LVT	4" RUBBER		8 SF
117	BUNK	LVT	4" RUBBER	INPRO 1	77 SF
118	BUNK	LVT	4" RUBBER	INPRO 1	76 SF
119	BUNK	LVT	4" RUBBER	INPRO 1	76 SF
120	BUNK	LVT	4" RUBBER	INPRO 1	75 SF
121A	CAPTAIN STORAGE	LVT	4" RUBBER		92 SF
121B	CAPTAIN BEDROOM	LVT	4" RUBBER		68 SF
122	LAUNDRY	EPOXY	EPOXY	INPRO 1	132 SF
123	DECON	EPOXY	EPOXY	INPRO 1	66 SF
124	BUNKER GEAR STORAGE	EPOXY	EPOXY		326 SF
125	COVERED PATIO	NON SLIP TILE			246 SF

CITY OF CRESTVIEW, FLORIDA
The Hub City of Northwest Florida
OKALOOSA 1916 WALTON

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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

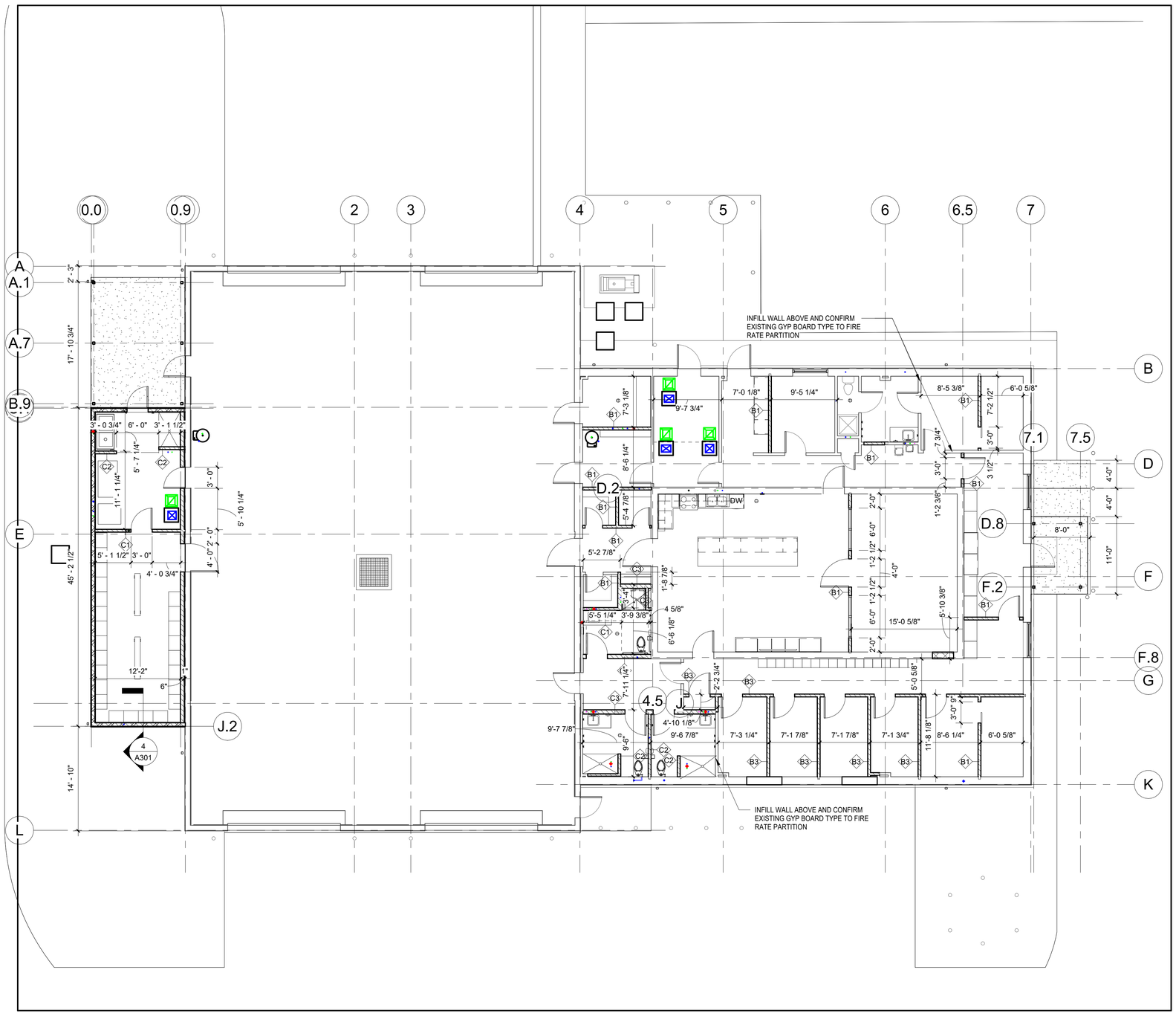
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

FLOOR PLAN

Date 12/19/2025
Drawn By LM
Checked By MM

A101



FLOOR PLAN - NEW WORK DIMENSIONED
1/8" = 1'-0"

GENERAL NOTES

1 FIELD VERIFY ALL DIMENSIONS SIZES

2 COORDINATE (ALL LIGHTS DIFFUSERS, AND GRILLES) WITH ELECTRICAL AND MECHANICAL

NEW WORK NOTES

WALL DIMENSIONS ARE TO PLAN NORTH AND PLAN EAST SIDE OF METAL STUDS.

GRIDLINES ARE DIMENSIONED TO COLUMN CENTERLINES

WINDOWS AND DOORS ARE DIMENSIONED TO ROUGH OPENING

PLUMBING FIXTURES ARE DIMENSIONED TO CENTERLINE.

ROOM SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	Area
100	TRUCK BAYS	EXISTING			4274 SF
101	KITCHEN/DAY ROOM	LVT	4" RUBBER	INPRO 2	607 SF
102	GYM	RUBBER FLOOR	4" RUBBER	INPRO 1	336 SF
103	GEAR WASH	EPOXY	EPOXY		70 SF
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105	MECHANICAL	EPOXY			146 SF
106	CORRIDOR 1	LVT	4" RUBBER	INPRO 1	241 SF
107	OFFICE/STUDY	LVT	4" RUBBER	INPRO 1	98 SF
108	RESTROOM	LVT	4" RUBBER	INPRO 2	103 SF
109A	BATTALION CHIEF	LVT	4" RUBBER		85 SF
109B	BATTALION CHIEF SLEEPING	LVT	4" RUBBER		63 SF
111	CORRIDOR	LVT	4" RUBBER	INPRO 1	69 SF
111	CORRIDOR	LVT	4" RUBBER	INPRO 1	195 SF
111A	A	LVT	4" RUBBER		23 SF
111B	B	LVT	4" RUBBER		23 SF
111C	C	LVT	4" RUBBER		23 SF
112	CORRIDOR	LVT	4" RUBBER	INPRO 1	102 SF
113	ADA SHOWER	LVT	4" RUBBER	INPRO 2	70 SF
114	SHOWER	LVT	4" RUBBER	INPRO 2	79 SF
115	SHOWER	LVT	4" RUBBER	INPRO 2	80 SF
116	CORRIDOR	LVT	4" RUBBER	INPRO 1	287 SF
116A	IT	LVT	4" RUBBER		8 SF
117	BUNK	LVT	4" RUBBER	INPRO 1	77 SF
118	BUNK	LVT	4" RUBBER	INPRO 1	76 SF
119	BUNK	LVT	4" RUBBER	INPRO 1	76 SF
120	BUNK	LVT	4" RUBBER	INPRO 1	75 SF
121A	CAPTAIN STORAGE	LVT	4" RUBBER		92 SF
121B	CAPTAIN BEDROOM	LVT	4" RUBBER		68 SF
122	LAUNDRY	EPOXY	EPOXY	INPRO 1	132 SF
123	DECON	EPOXY	EPOXY	INPRO 1	66 SF
124	BUNKER GEAR STORAGE	EPOXY	EPOXY		326 SF
125	COVERED PATIO	NON SLIP TILE			246 SF

CITY OF CRESTVIEW, FLORIDA
The Hub City of Northwest Florida
OKALOOSA 1916 COUNTY

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FIRE STATION 3

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SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

FLOOR PLAN DIMENSIONED

Date 12/19/2025
Drawn By LM
Checked By MM

A102

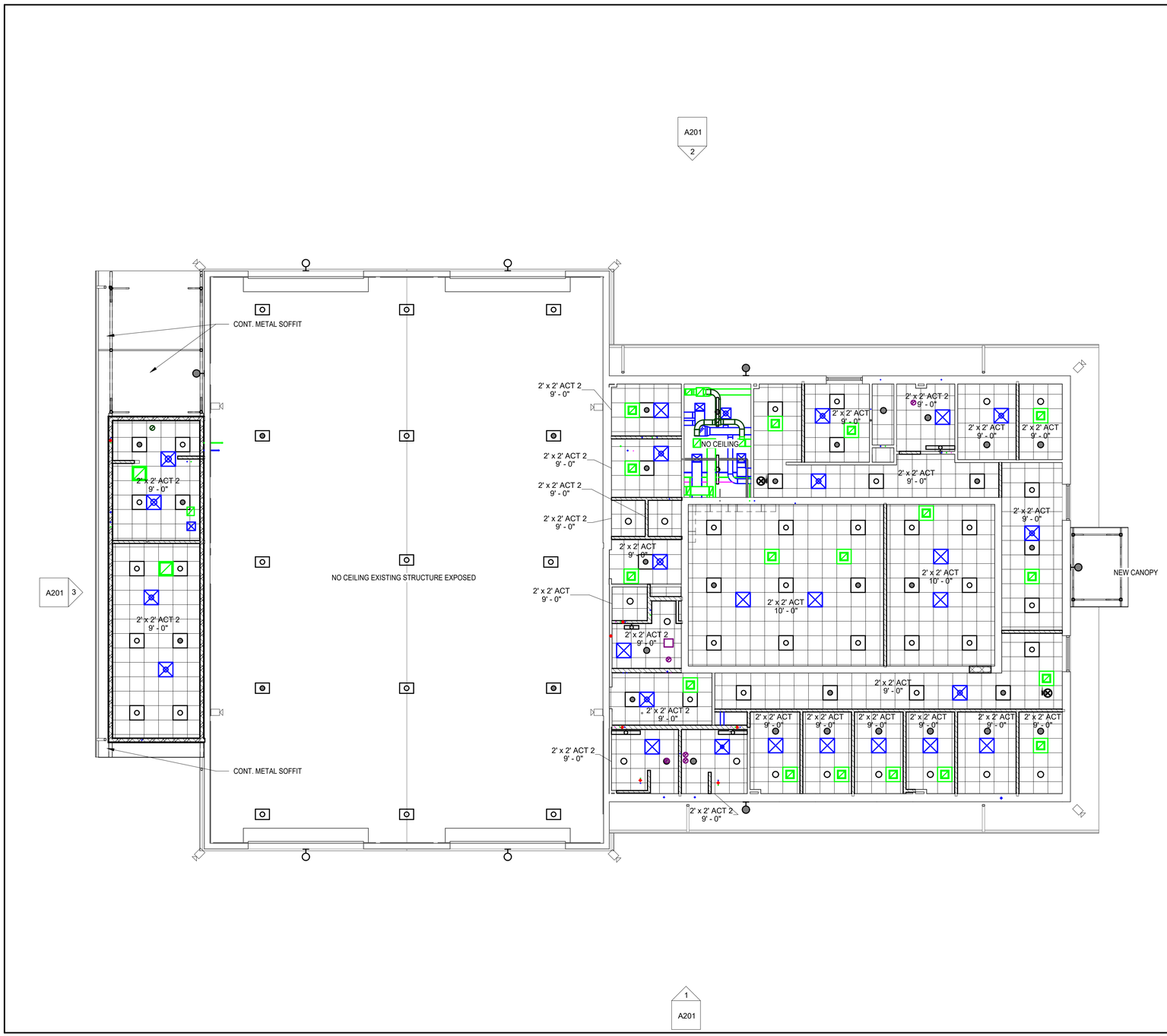
GENERAL NOTES

1 FIELD VERIFY ALL DIMENSIONS SIZES

2 COORDINATE (ALL LIGHTS DIFFUSERS, AND GRILLES) WITH ELECTRICAL AND MECHANICAL

NEW WORK NOTES

1 NEW CEILINGS, LIGHTS, AND DIFFUSERS - SEE ELECTRICAL AND MECHANICAL



1 CEILING PLAN
1/8" = 1'-0"

CITY OF CRESTVIEW, FLORIDA
The Hub City of Northwest Florida
OKALOOSA COUNTY 1916

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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

REFLECTED CEILING PLAN

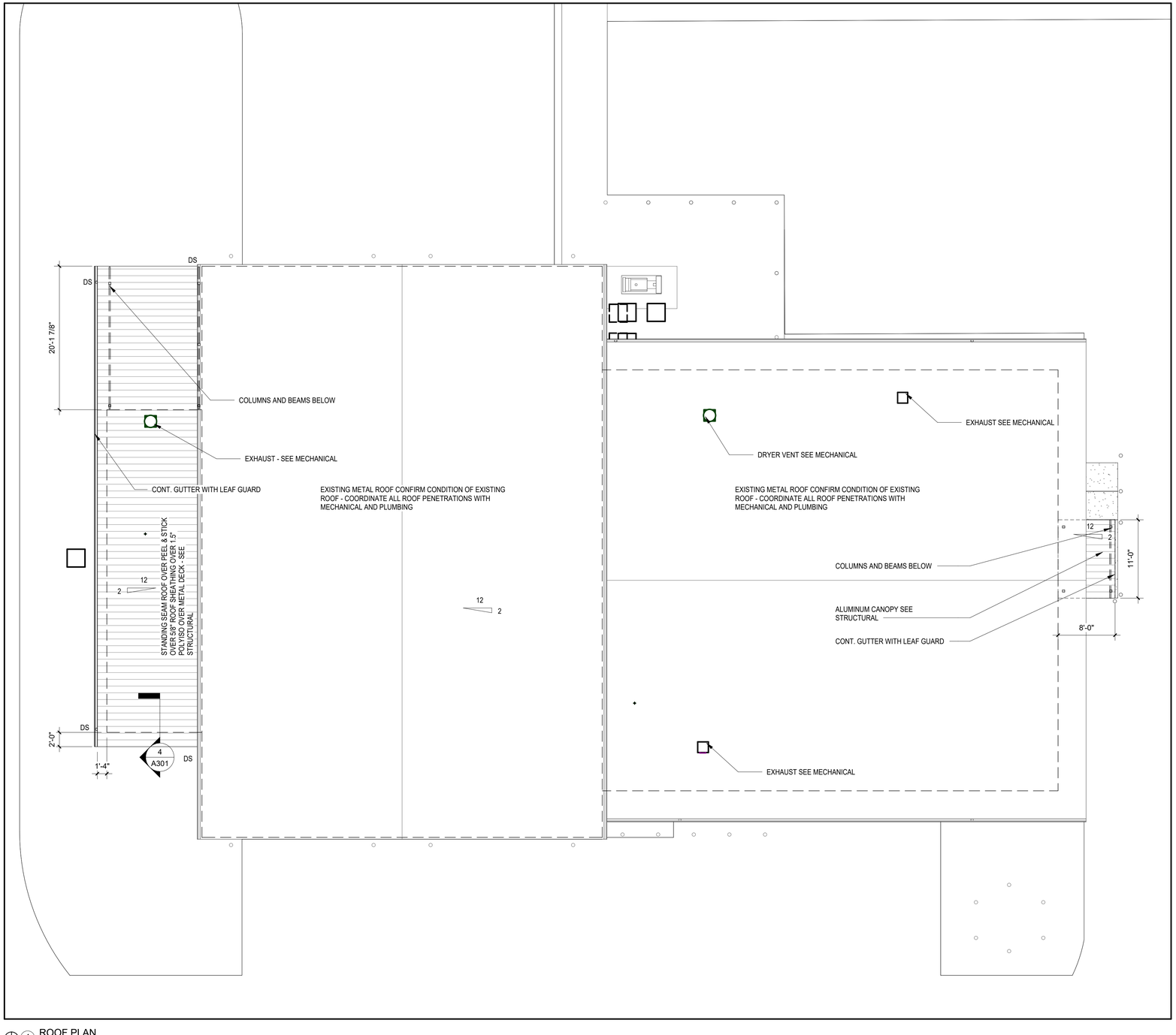
Date	12/19/2025
Drawn By	LM
Checked By	Checker

A111

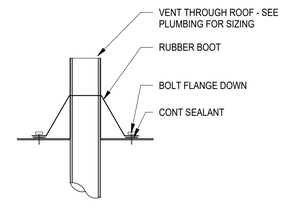
GENERAL NOTES

1 FIELD VERIFY ALL DIMENSIONS SIZES

2 COORDINATE (ALL LIGHTS DIFFUSERS, AND GRILLES) WITH ELECTRICAL AND MECHANICAL



N 1 ROOF PLAN
1/8" = 1'-0"



2 ROOF VENT DETAIL
1 1/2" = 1'-0"

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

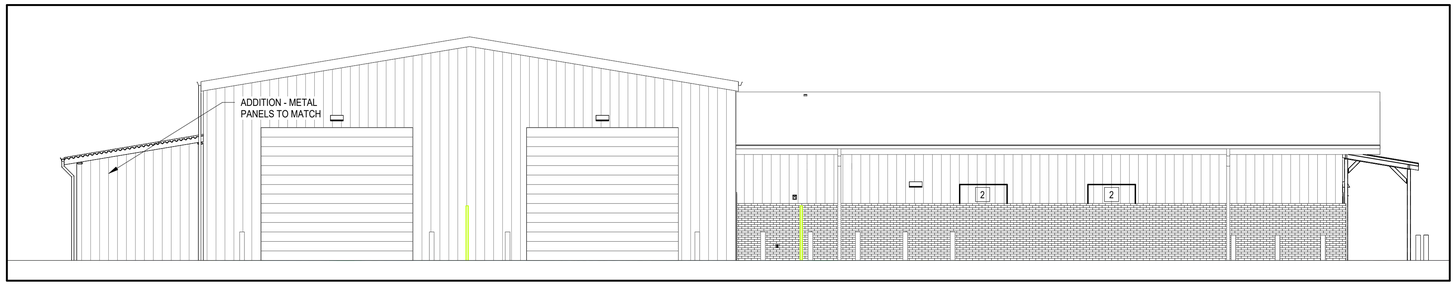
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

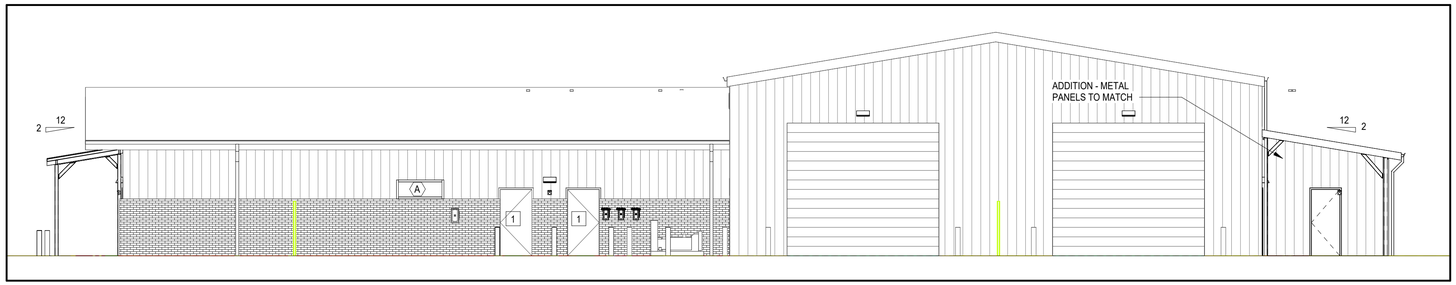
ROOF PLAN

Date	12/19/2025
Drawn By	Author
Checked By	Checker

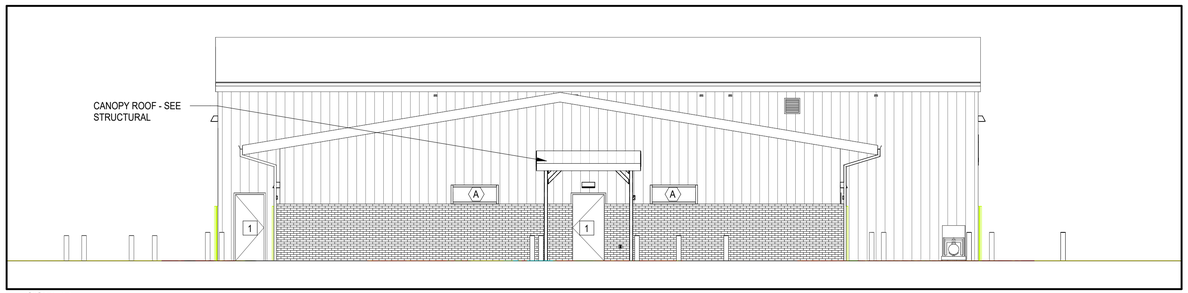
A121



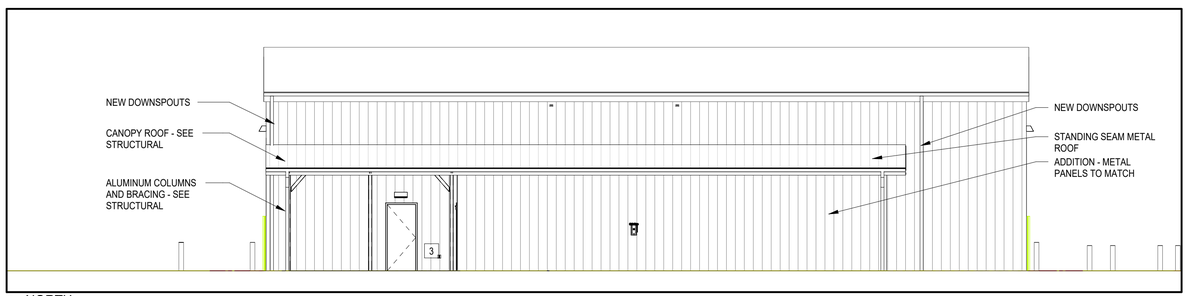
1 WEST
1/8" = 1'-0"



2 EAST
1/8" = 1'-0"



4 SOUTH
1/8" = 1'-0"



3 NORTH
1/8" = 1'-0"

GENERAL NOTES

1 FIELD VERIFY ALL DIMENSIONS SIZES

2 COORDINATE (ALL LIGHTS DIFFUSERS, AND GRILLES) WITH ELECTRICAL AND MECHANICAL

NEW WORK ELEVATION NOTES

1 PAINT EXISTING DOOR AND FRAME

2 INFILL EXISTING WINDOW

3 INFILL EXISTING LOUVER

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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

ELEVATIONS

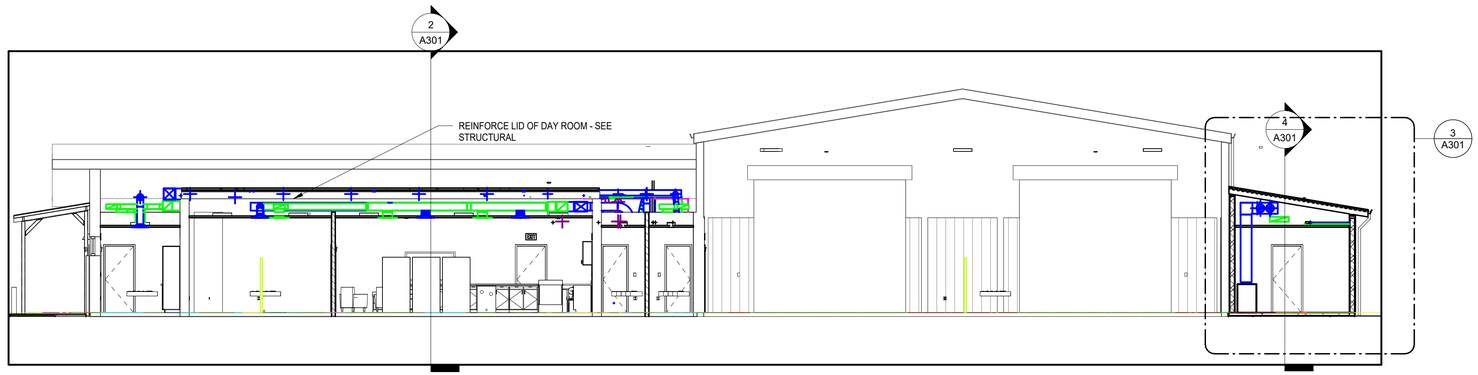
Date	12/19/2025
Drawn By	LM
Checked By	MM

A201

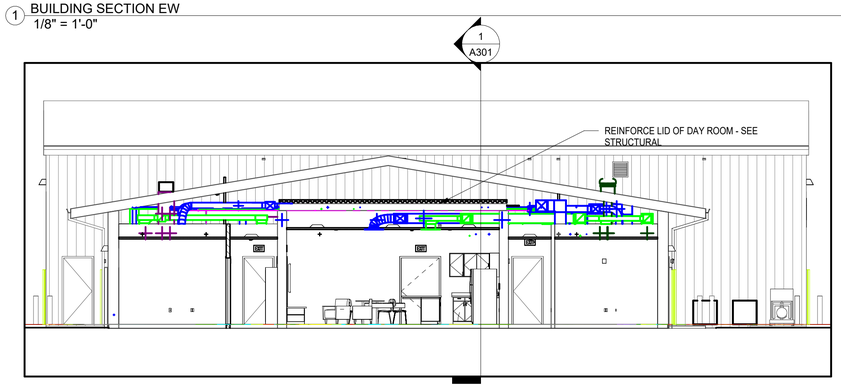
GENERAL NOTES

1 FIELD VERIFY ALL DIMENSIONS SIZES

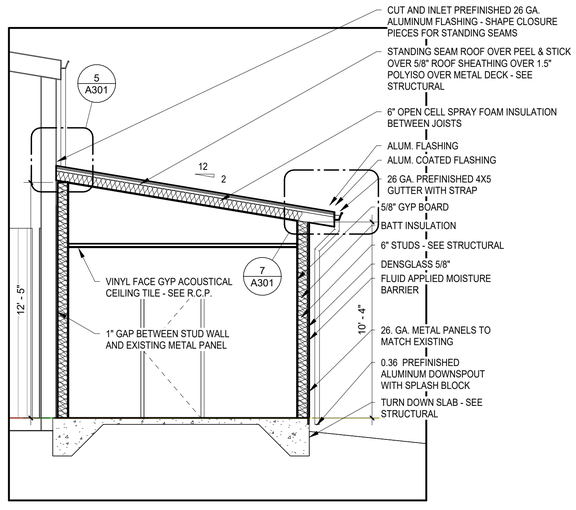
2 COORDINATE (ALL LIGHTS DIFFUSERS, AND GRILLES) WITH ELECTRICAL AND MECHANICAL



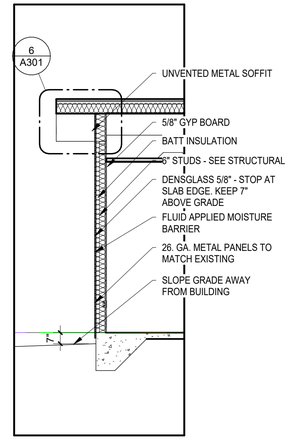
1 BUILDING SECTION EW
1/8" = 1'-0"



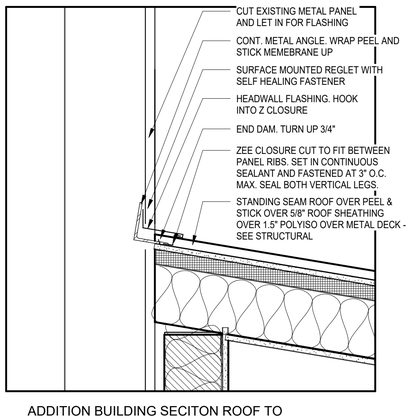
2 BUILDING SECTION NS
1/8" = 1'-0"



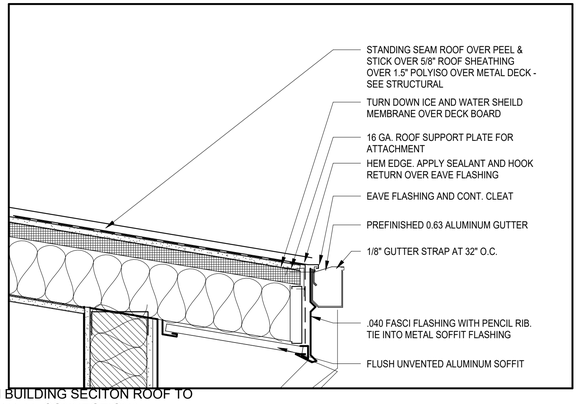
3 ADDITION BUILDING SECITON
1/4" = 1'-0"



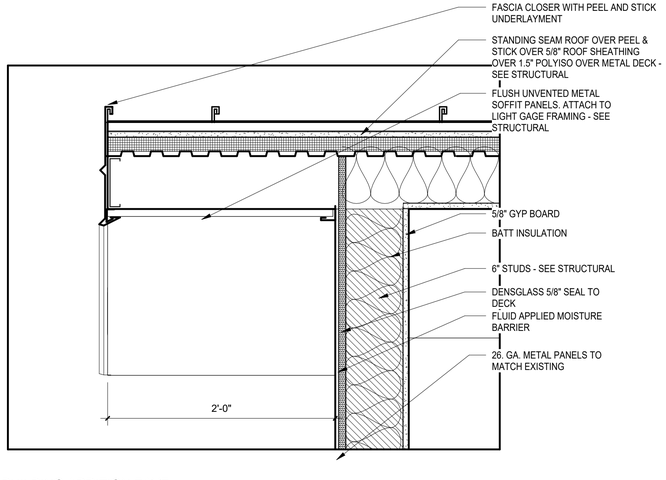
4 BUILDING ADDITION SECITON 2
1/4" = 1'-0"



5 ADDITION BUILDING SECITON ROOF TO EXISTING WALL CONNECTION
1 1/2" = 1'-0"



7 ADDITION BUILDING SECITON ROOF TO EXISTING WALL CONNECTION1
1 1/2" = 1'-0"



6 BUILDING ADDITION EAVE
1 1/2" = 1'-0"

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The Hub City of Northwest Florida
OKALOOSA COUNTY 1916

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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

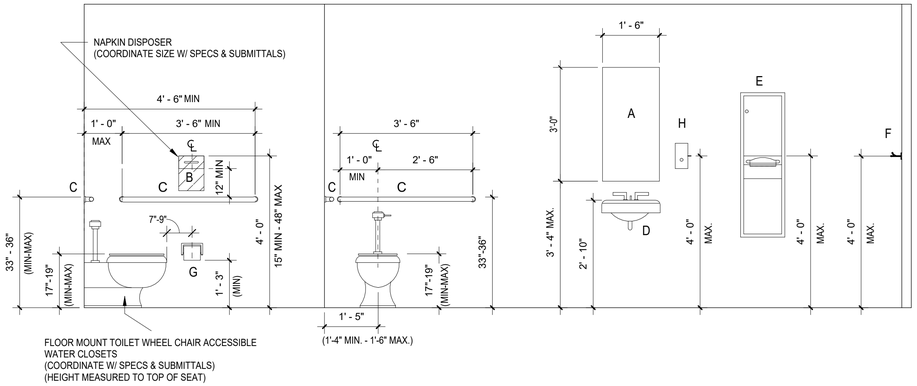
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

BUILDING SECTIONS

Date	12/19/2025
Drawn By	LM
Checked By	MM

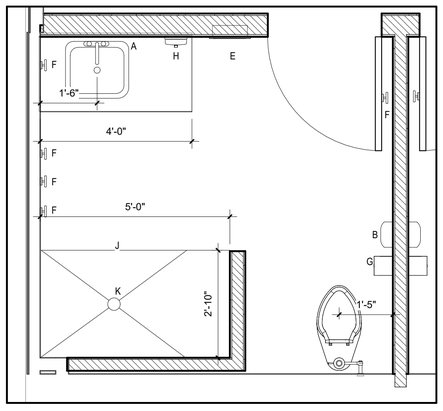
A301



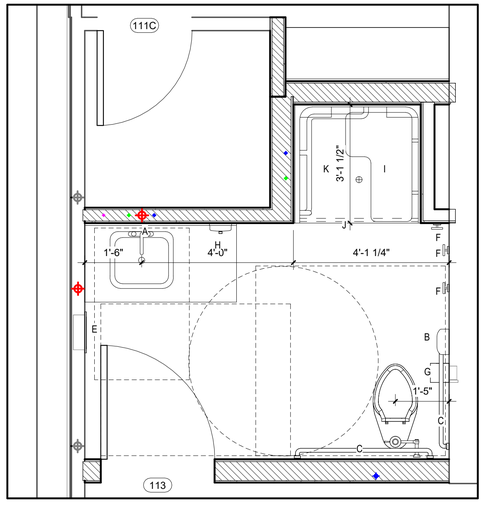
6 RESTROOM MOUNTING HEIGHTS
1/2" = 1'-0"

TOILET ACCESSORIES
A. 18"x36" MIRROR ADA COMPLIANT MIRROR
B. SANITARY NAPKIN DISPOSER
C. 42" GRAB BAR
D. UNDER-LAVATORY GUARD
E. PAPER TOWEL DISPENSER/WASTE RECEPTACLE
F. CLOTHES HOOK
G. TOILET PAPER DISPENSER
H. SOAP DISPENSER
I. FOLDING SHOWER SEAT & GRAB BARS
J. SHOWER ROD AND CURTAIN
K. PRE-MANUFACTURED SHOWER STALL

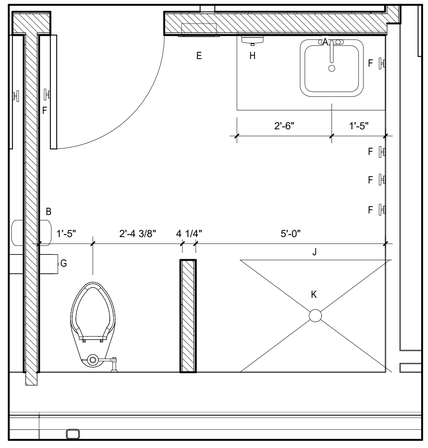
7 TOILET ACCESSORIES
1/4" = 1'-0"



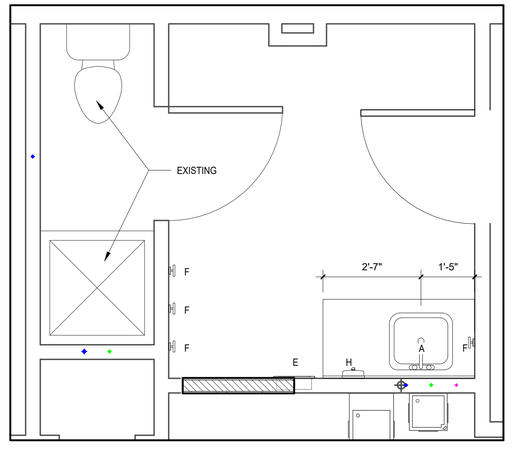
1 FLOOR PLAN - RESTROOM 114
1/2" = 1'-0"



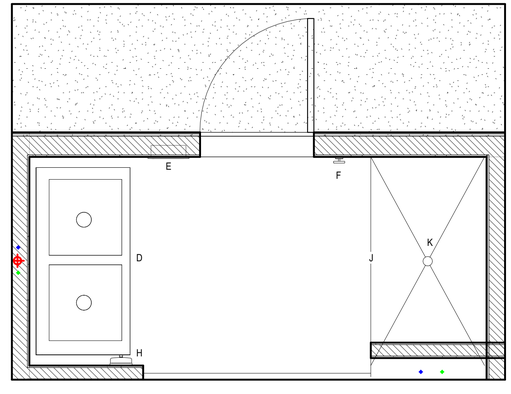
5 FLOOR PLAN - RESTROOM 113
1/2" = 1'-0"



2 FLOOR PLAN - RESTROOM 115
1/2" = 1'-0"



3 FLOOR PLAN - RESTROOM 108
1/2" = 1'-0"



4 FLOOR PLAN DECON SHOWER
1/2" = 1'-0"

CITY of CRESTVIEW, FLORIDA
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OKALOOSA 1916 COUNTY

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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

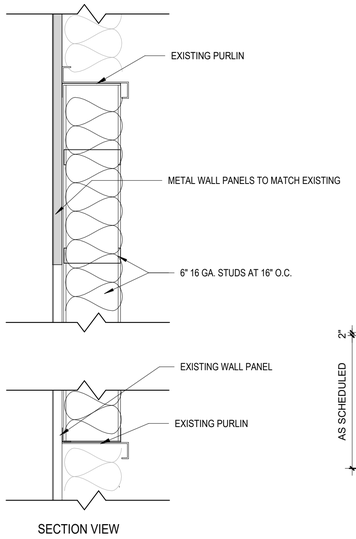
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

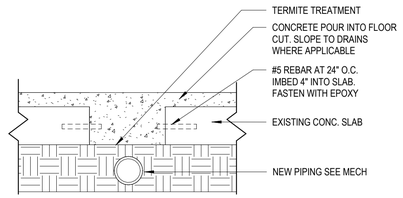
ENLARGED PLANS

Date	12/19/2025
Drawn By	Author
Checked By	Checker

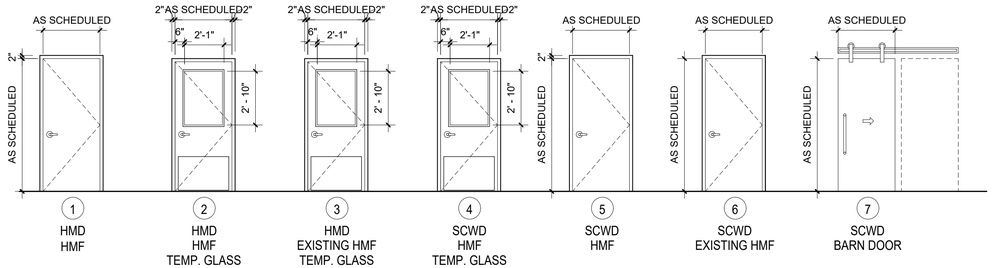
A401



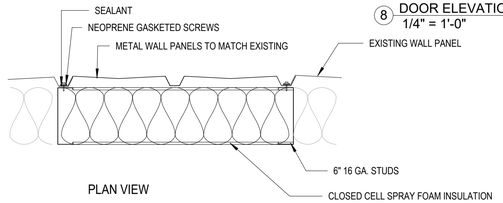
SECTION VIEW



4 FLOOR PATCH DETAIL
1 1/2" = 1'-0"



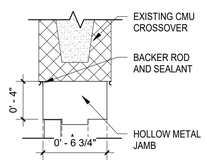
KICKPLATE AT NAMED LOCATIONS



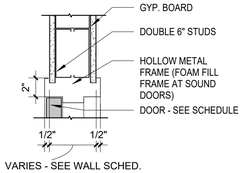
PLAN VIEW

8 DOOR ELEVATIONS
1/4" = 1'-0"

1 LOUVER INFILL DETAIL
1 1/2" = 1'-0"

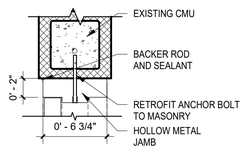


A HEAD DETAIL

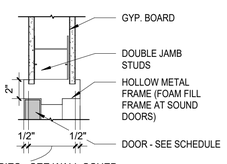


VARIES - SEE WALL SCHED.

D HEAD DETAIL

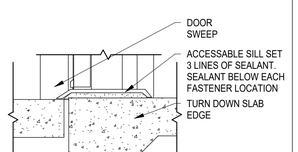


B JAMB DETAIL

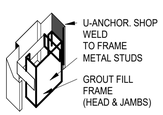


VARIES - SEE WALL SCHED.

E JAMB DETAIL



C SILL DETAIL



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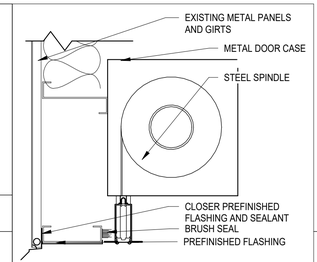
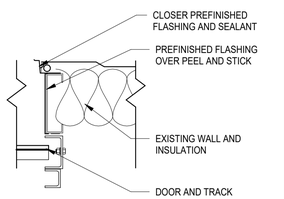
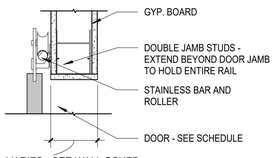


G COILING DOOR HEAD

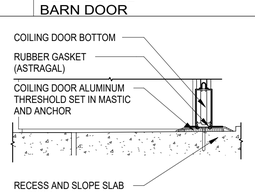


H COILING DOOR JAMB

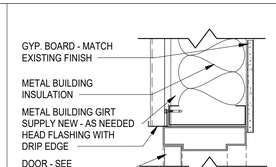


VARIES - SEE WALL SCHED.

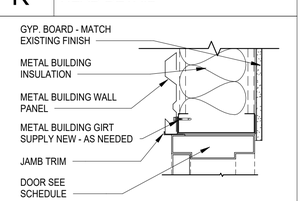
I HEAD DETAIL BARN DOOR



J COILING DOOR SILL



K HEAD DETAIL



L JAMB DETAIL

6 DOOR DETAILS
1 1/2" = 1'-0"

DOOR SCHDEULE

MARK	TYPE	HEIGHT	WIDTH	HEAD	JAMB	SILL	HDW	COMMENTS
100A	2	7' - 0"	3' - 0"	K	L	C	20	
100B	EX	7' - 0"	3' - 0"	K	L	C	20	EXISTING
101A	6	7' - 0"	3' - 0"	A	B		14	
101B	6	7' - 0"	3' - 0"	A	B		15	
101C	3	7' - 0"	4' - 0"	A	B		13	KICKPLATE
102	4	7' - 0"	4' - 0"	D	E		7	KICKPLATE
103	2	7' - 0"	3' - 0"	K	L	C	18	KICKPLATE
104A	2	7' - 0"	3' - 0"	K	L	C	19	KICKPLATE
104B	4	7' - 0"	3' - 0"	D	E		3	KICKPLATE
105A	4	7' - 0"	3' - 0"	D	E		3	KICKPLATE
105E	EX	7' - 0"	3' - 4"	K	L	C	26	EXISTING
106	5	7' - 0"	3' - 0"	D	E		21	
106E	EX	7' - 0"	3' - 4"	K	L	C	26	EXISTING
107	5	7' - 0"	3' - 0"	D	E		4	
108E	3	7' - 0"	3' - 0"	D	E		11	
109A	5	7' - 0"	3' - 0"	D	E		6	20 MIN
109B	7	7' - 0"	3' - 0"	I			23	
109C	3	7' - 0"	3' - 0"	D	E		9	
111A	3	7' - 0"	2' - 6"	D	E		16	
111B	3	7' - 0"	2' - 6"	D	E		16	
111C	3	7' - 0"	2' - 6"	D	E		16	
111D	3	7' - 0"	4' - 0"	K	L	C	27	KICKPLATE
111E	EX	7' - 0"	3' - 4"	K	L	C	25	EXISTING
112	2	7' - 0"	3' - 0"	K	L	C	22	KICKPLATE
113	5	7' - 0"	3' - 0"	D	E		11	
114	EX	7' - 0"	3' - 0"	D	E		-	EXISTING
115	5	7' - 0"	3' - 0"	D	E		11	
116A	5	7' - 0"	3' - 0"	D	E		21	
116B	2	7' - 0"	3' - 0"	D	E		1	KICKPLATE
116C	5	7' - 0"	3' - 0"	D	E		12	
117	5	7' - 0"	3' - 0"	D	E		10	20 MIN
118	5	7' - 0"	3' - 0"	D	E		10	20 MIN
119	5	7' - 0"	3' - 0"	D	E		10	20 MIN
120	5	7' - 0"	3' - 0"	D	E		10	20 MIN
121A	5	7' - 0"	3' - 0"	D	E		5	20 MIN
121B	7	7' - 0"	3' - 0"	I			23	
122	1	7' - 0"	3' - 0"	K	L	C	17	KICKPLATE
123E	1	7' - 0"	3' - 0"	D	E	C	20	
124A	3	7' - 0"	4' - 0"	K	L	C	22	KICKPLATE
124B	1	7' - 0"	3' - 0"	D	E		8	KICKPLATE
126	EX	7' - 0"	2' - 0"	D	E		2	
127	EX	14' - 0"	16' - 0"				24	EXISTING
128	EX	14' - 0"	16' - 0"				24	EXISTING
129	EX	14' - 0"	16' - 0"				24	EXISTING
130	EX	14' - 0"	16' - 0"				24	EXISTING

CITY OF CRESTVIEW, FLORIDA
The Path to a City of Northwest Florida
OKALOOSA 1916 COUNTY

Ajax BUILDING CORPORATION

GMC

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

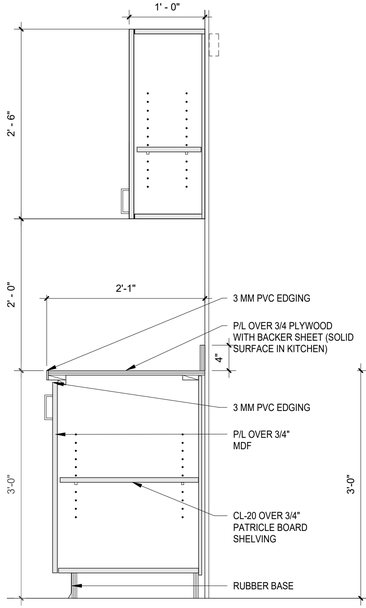
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

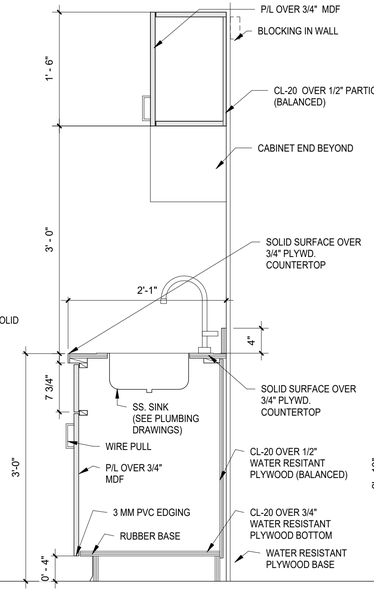
DETAILS AND SCHEDULES

Date	12/19/2025
Drawn By	Author
Checked By	Checker

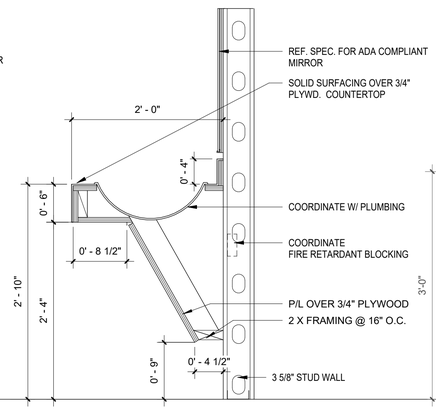
A501



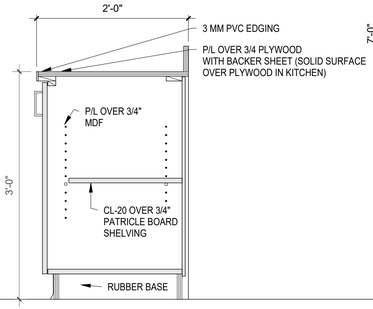
MW DETAIL



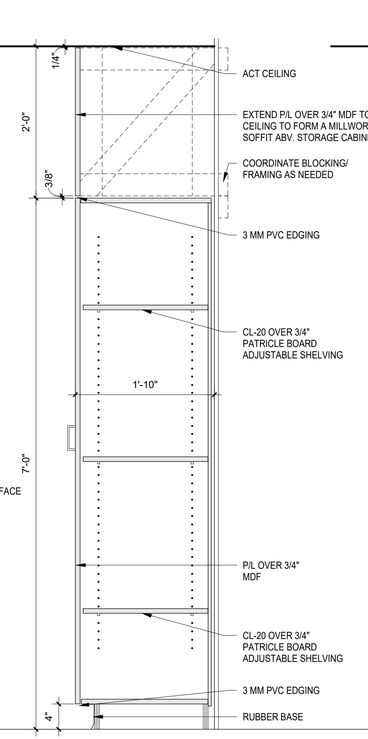
MW DETAIL



MW DETAIL



MW CABINET DETAIL



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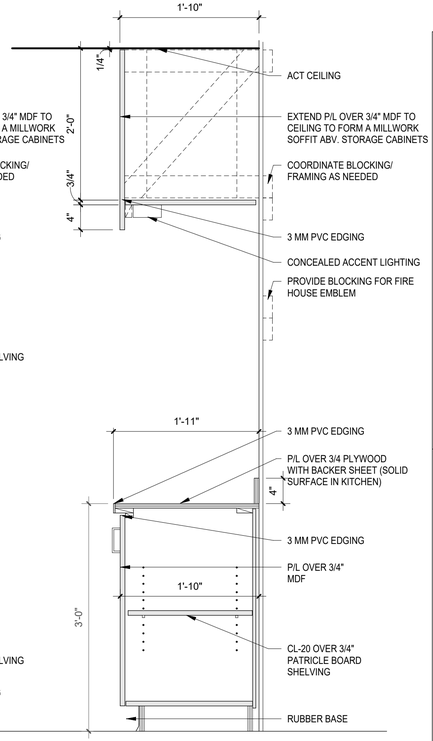

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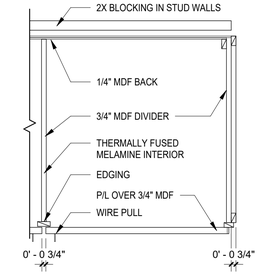
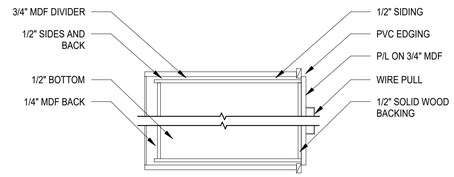
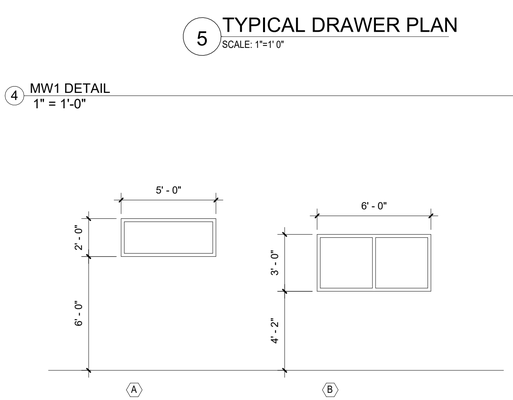


6 TYPICAL CABINET PLAN
SCALE: 1"=1' 0"

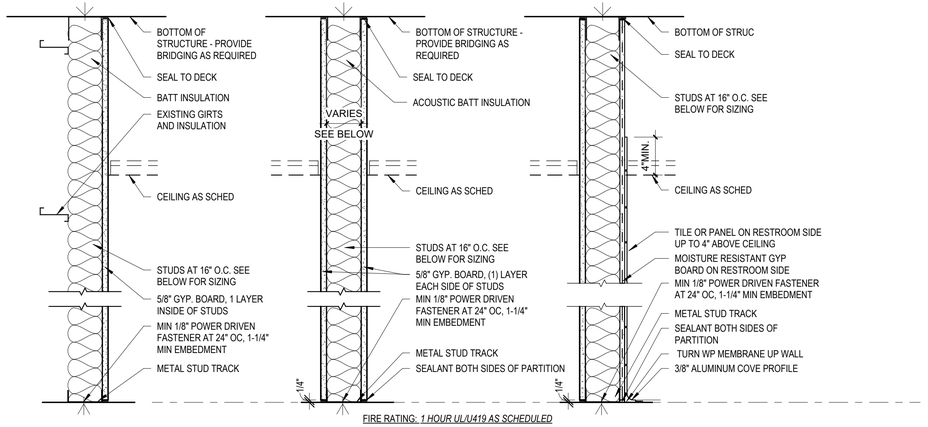


5 TYPICAL DRAWER PLAN
SCALE: 1"=1' 0"



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

4 MW1 DETAIL
1" = 1'-0"



FIRE RATING: *1 HOUR UL/U419 AS SCHEDULED*

FULL HEIGHT FURRING

- A.1 — 3 5/8" METAL STUD 16" O.C. WITH 5/8" GYP BOARD FLOOR TO DECK ONE SIDE.
- A.2 — 3 5/8" METAL STUD STUD 16" O.C. WITH TILE OVER 1/2" RATED CEMENT BOARD ONE SIDE.

FULL HEIGHT PARTITION

- B.1 — 3 5/8" METAL STUD 16" O.C. WITH 5/8" GYP BOARD FLOOR TO DECK EACH SIDE. SOUND INSULATION BATT. SEAL TO FLOOR TO DECK ACOUSTICAL SEALANT
- B.2 — 6" METAL STUD 16" O.C. WITH 5/8" GYP BOARD FLOOR TO DECK EACH SIDE. SOUND INSULATION BATT. SEAL TO FLOOR TO DECK ACOUSTICAL SEALANT
- B.3 — *1 HOUR RATED* 3 5/8" METAL STUD 24" O.C. WITH 5/8" TYPE X GYP BOARD FLOOR TO DECK EACH SIDE. SOUND INSULATION BATT. SEAL TO FLOOR TO DECK FIRE RATED SEALANT. - STENCIL ABOVE CEILING TO SEAL ALL PENETRATIONS

FULL HEIGHT RESTROOM PARTITION

- C.1 — 3 5/8" METAL STUD 16" O.C. WITH 5/8" GYP BOARD FLOOR TO DECK ONE SIDE. INPRO OVER MOISTURE RESISTANT GYP - SEE FINISH SCHEDULE
- C.2 — 3 5/8" METAL STUD 16" O.C. INPRO OVER MOISTURE RESISTANT GYP BOTH SIDES - SEE FINISH SCHEDULE. SOUND INSULATION BATT.
- C.3 — 6" METAL STUD 16" O.C. INPRO OVER MOISTURE RESISTANT GYP BOTH SIDES - SEE FINISH SCHEDULE. SOUND INSULATION BATT.
- C.4 — 6" METAL STUD 16" O.C. WITH 5/8" GYP BOARD FLOOR TO DECK ONE SIDE. INPRO OVER MOISTURE RESISTANT GYP ONE SIDE - SEE FINISH SCHEDULE. SOUND INSULATION BATT.

3 WALL TYPE LEGEND
1 1/2" = 1'-0"

CITY OF CRESTVIEW, FLORIDA — The Hub City of Northwest Florida — OKALOOSA COUNTY — 1916

Ajax BUILDING CORPORATION

GMC

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

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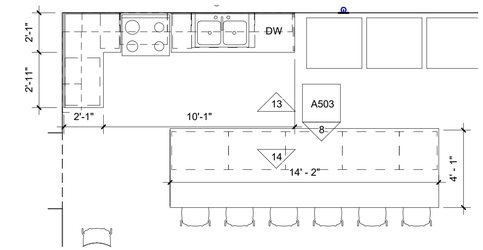
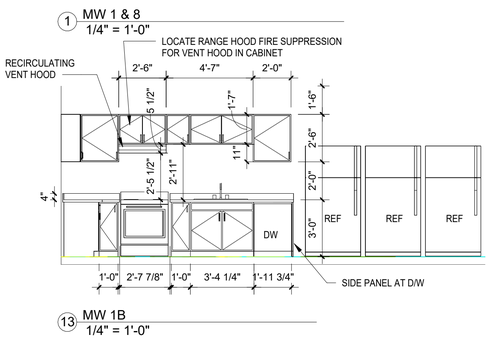
No.	Description	Date

DETAILS

Date	12/19/2025
Drawn By	Author
Checked By	Checker

A502





13 MW 1B
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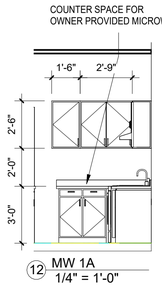

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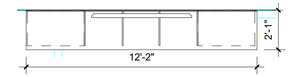

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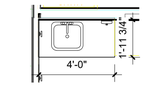

3 MW 3
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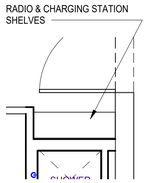

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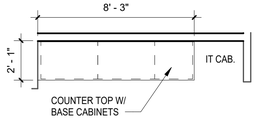

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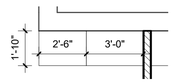

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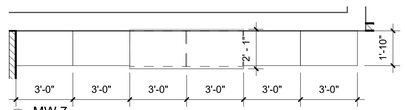

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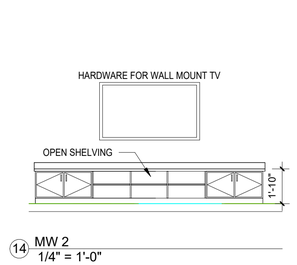

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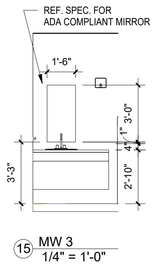
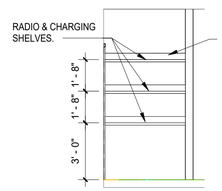
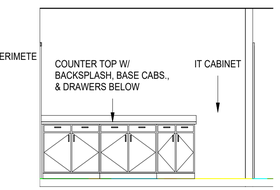


15 MW 3
1/4" = 1'-0"



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



17 MW 5
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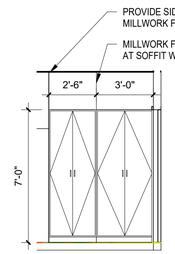

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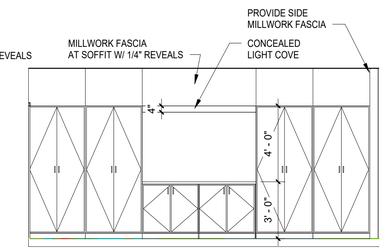
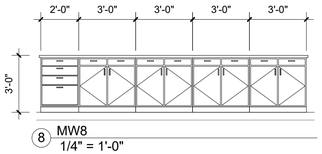


19 MW 7
1/4" = 1'-0"



8 MW8
1/4" = 1'-0"

CITY OF CRESTVIEW, FLORIDA
The Hub City of Northwest Florida
OKALOOSA 1916 COUNTY

Ajax BUILDING CORPORATION

GMC

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
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No.	Description	Date

MILLWORK

Date	12/19/2025
Drawn By	Author
Checked By	Checker

A503

1.00 GENERAL NOTES

1.01 THESE DRAWINGS ADDRESS ONLY THE STRUCTURAL DESIGN OF THE STRUCTURE. THE DIMENSIONAL LAYOUT OF THE STRUCTURE HAS BEEN DICTATED TO TRUE NORTH STRUCTURAL ENGINEERING IN ORDER TO PRODUCE STRUCTURAL DESIGN DOCUMENTS. NO REPRESENTATION IS MADE REGARDING CODE CONFORMANCE OF NON-STRUCTURAL ASPECTS OF THE STRUCTURE.

1.02 DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.

1.03 VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCY.

1.04 THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. TAKE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING STRUCTURE AND ITS FOUNDATION AND TO LIMIT, TO THE EXTENT POSSIBLE, THE EFFECTS OF CONSTRUCTION THAT THE NEW STRUCTURE HAS ON THE EXISTING STRUCTURE.

1.05 COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL. NOTIFY STRUCTURAL ENGINEER OF ANY CONFLICT AND/OR OMISSION. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE ARCHITECT. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS.

1.06 DESIGN CRITERIA:

THE STRUCTURE HAS BEEN DESIGNED UTILIZING THE FOLLOWING REFERENCES:

A. FLORIDA BUILDING CODE, 2023
B. ASCE 7-22, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
C. ACI 302.1 R-15, CONCRETE FLOOR AND SLAB CONSTRUCTION
D. ACI 360 R-10, DESIGN OF SLABS-ON-GROUND
E. AISC STEEL CONSTRUCTION MANUAL 15TH EDITION
F. ANSI/SDI, AMERICAN NATIONAL STANDARDS INSTITUTE / STEEL DECK INSTITUTE, RD-2010 STANDARD STEEL ROOF DECK
G. AISC 360, SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION
H. AISC STEEL CONSTRUCTION MANUAL 15TH EDITION
I. ANSI/SDI, AMERICAN NATIONAL STANDARDS INSTITUTE / STEEL DECK INSTITUTE, C-2011 STANDARD FOR COMPOSITE STEEL FLOOR DECK – SLAB

1.07 DESIGN LOADS

A. SUPERIMPOSED DEAD LOADS:
   1. MECHANICAL, ELECTRICAL, PLUMBING: 5 PSF
   2. CEILINGS AND INSULATION: 5 PSF
   3. ROOFING MATERIALS: 2 PSF

B. LIVE LOADS: (MAY BE REDUCED PER CODE)
   1. ROOF LIVE LOAD: 20 PSF
   2. SLAB-ON-GRADE: 100 PSF
   3. STORAGE: 125 PSF

C. WIND LOADS - STRUCTURE HAS BEEN DESIGNED TO CONFORM TO THE WIND PROVISIONS OF ASCE 7-22. SEE WIND PRESSURE DIAGRAM & CHART ON S002 FOR THE FOLLOWING:

   1. BASIC WIND SPEED (3-SEC GUST)
   2. BUILDING RISK CATEGORY
   3. WIND EXPOSURE CATEGORY
   4. INTERNAL PRESSURE COEFFICIENT
   5. COMPONENT & CLADDING WIND PRESSURES

2.00 FOUNDATIONS AND SLAB-ON-GRADE

2.01 SHALLOW FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.

2.02 AT THIS TIME NO GEOTECHNICAL REPORT HAS BEEN SUBMITTED. AN ALLOWABLE SOIL BEARING PRESSURE HAS BEEN CONSERVATIVELY ESTIMATED BASED ON SIMILAR PROJECTS OF THIS SIZE AND LOCATED IN THE SAME GENERAL AREA OF CONSTRUCTION. A QUALIFIED GEOTECHNICAL ENGINEER SHALL CHECK COMPACTION OF THE FOOTINGS. THE SOILS IMMEDIATELY BENEATH ALL FOOTINGS SHOULD BE COMPACTED FOR A MINIMUM DEPTH OF 12 INCHES TO A MINIMUM OF 95% OF THE SOIL'S MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557) USING A LARGE TAMPER.

2.03 A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC. SHOULD THE CONTRACTOR FIND UNDESIRABLE SOILS, HE SHALL STOP WORK AND IMMEDIATELY CONTACT THE GEOTECHNICAL ENGINEER. ALL FOOTINGS AND SLABS SHALL REST ON SUBGRADE PREPARED AS REQUIRED IN THE GEOTECHNICAL REPORT.

2.04 SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS POURED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

2.05 CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY PROTECTING ALL EXCAVATION SLOPES.

2.06 WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.

2.07 DEWATER TO AT LEAST TWO FEET BELOW BOTTOM OF LOWEST FOUNDATION IF GROUNDWATER IS ENCOUNTERED.

2.08 SLAB-ON-GRADE REQUIREMENTS:

A. UNLESS NOTED OTHERWISE, THE SLAB-ON-GRADE SHALL BE A MINIMUM OF :

   4 INCHES THICK, PLACED ON COMPACTED SUBGRADE, AND REINFORCED WITH 6x6 W2.0xW2.0 WWF IN FLAT SHEETS (ROLLS ARE NOT PERMITTED). PROVIDE POSITIVE SUPPORT 2½" CLEAR FROM BOTTOM OF SLAB. LAP MESH 12".

B. PLACE CONTRACTION OR CONSTRUCTION JOINTS AT LOCATIONS INDICATED BY "S.C.J." (SAWN CONTROL JOIST). SAWCUT CONTROL JOINTS AS SOON AFTER POURING AS POSSIBLE, WHEN CONCRETE WILL NOT RAVEL; 12 HRS. MAX. CURE CONCRETE IN ACCORDANCE WITH ACI 301. BEGIN CURING IMMEDIATELY AFTER POURING TO LIMIT CRACKING PRIOR TO SAWCUTTING CONTROL JOINTS.

C. SUBGRADE SHALL BE PREPARED AS RECOMMENDED IN THE GEOTECHNICAL REPORT. IN THE ABSENCE OF A GEOTECHNICAL REPORT, THE TOP 12" OF THE SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM MODIFIED PROCTOR DENSITY. DENSITY TESTS SHALL BE TAKEN AT 2500 SF INTERVALS.

D. VAPOR RETARDER SHALL CONFORM TO ASTM E1745, CLASS A, B, & C AND A MINIMUM OF 15 MIL. THICKNESS. VAPOR RETARDER SHOULD BE PLACED OVER THE COMPACTED SUBGRADE. VAPOR RETARDER SHOULD BE OVERLAPPED 8 IN. AND TAPED AT THE JOINTS AND CAREFULLY FITTED AROUND SERVICE OPENINGS.

3.00 REINFORCED CONCRETE

3.01 ALL CONCRETE WORK SHALL CONFORM TO ACI 301-16, SPECIFICATIONS FOR STRUCTURAL CONCRETE. DESIGN IS BASED ON ACI 318-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315R-18, GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS. DETAIL ALL CONCRETE WALLS AND BEAMS ON THE SHOP DRAWINGS IN ELEVATION UNLESS SPECIFICALLY APPROVED OTHERWISE. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING REINFORCING STEEL AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED.

3.02 UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT **WITH EXCEPTION TO THE NON-COMPOSIT DECK FILL ABOVE THE KITCHEN / DAY ROOM / GYM AREA WHICH IS SHALL BE LIGHT WEIGHT** AND HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS (Fc'):

		Fc'
A.	FOUNDATIONS (EC)-F0, S0, W0, C0)	3500 PSI
B.	SLAB-ON-GRADE – INTERIOR (EC-F0, S0, W0, C0)	3500 PSI
C.	SLAB-ON-GRADE – EXTERIOR (EC-F2, S0, W0, C0)	4500 PSI
D.	FRAMED (ELEVATED) FLOOR SLABS-INTERIOR **(LIGHT WEIGHT CONCRETE ONLY)** (EC-F0, S0, W0, C0)	3500 PSI

CONCRETE MAY CONTAIN A PROPERLY DESIGNED SUPERPLASTICIZER FOR WORKABILITY.

3.03 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.

3.04 THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNER'S TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S.

3.05 USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

3.06 CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4".

3.07 TIE ALL REINFORCING STEEL AND EMBEDMENTS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCE DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

3.08 PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICE WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") UNLESS NOTED OTHERWISE. DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED REINFORCEMENT AND SHALL BE LAPPED WITH FULL TENSION SPLICES (CLASS "B") UNLESS NOTED OTHERWISE. TERMINATE BARS WITH STANDARD HOOKS.

3.09 REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE (PER ACI 318-19 TABLE 20.5.1.3.1):

A. CONCRETE AGAINST EARTH (NOT FORMED): 3"

B. FORMED CONCRETE EXPOSED TO THE EARTH OR WEATHER:
   1. #6 THROUGH #18 BARS: 2"
   2. #5 BARS AND SMALLER: 1-1/2"

C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
   1. SLABS AND WALLS: 3/4"
   2. BEAMS (STIRRUPS) AND COLUMNS (TIES): 1-1/2"

3.10 DO NOT PLACE DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.

3.11 DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER.

3.12 ALL REINFORCING STEEL PLACEMENTS SHALL BE REVIEWED BY A REGISTERED STRUCTURAL ENGINEER, OR BY A REPRESENTATIVE RESPONSIBLE TO HIM. (RE: ACI 318 PAR. 26.13.1)

3.13 FOR CONCRETE PADS SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

4.00 STRUCTURAL STEEL:

4.01 FABRICATION AND ERECTION OF STEEL DECKING SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S (SDI) "SPECIFICATION AND COMMENTARY FOR COMPOSITE STEEL FLOOR DECK, NON-COMPOSITE STEEL DECK, AND STEEL ROOF DECK" AS APPLICABLE TO THIS PROJECT.

4.02 MATERIAL FOR STEEL DECKING SHALL CONFORM TO ASTM A1008 OR A653 WITH 50 KSI MINIMUM YIELD STRENGTH. SEE DRAWINGS FOR STEEL DECK TYPE, GAUGE, AND SECTION PROPERTIES.

4.03 ROOF DECK SHALL BE OF TYPE INDICATED ON DRAWINGS

4.04 UNLESS NOTED OTHERWISE ALL STEEL DECKING SHALL HAVE A GALVANIZED COATING CONFORMING TO ASTM A653, G90 ALL ARCHITECTURALLY EXPOSED ROOF DECK SHALL BE SHOP PRIMED.

4.05 STEEL ROOF DECK ANCHORAGE; SEE LEGENDS ON PLANS.

4.06 STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL STEEL SHAPES, PLATES, ANGLES, AND CHANNELS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. STEEL GUSSET PLATES USED IN BRACED FRAME CONNECTIONS SHALL CONFORM TO ASTM A572, GRADE 50. HOLLOW STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A500, GRADE C, FY = 50 KSI, UNLESS NOTED OTHERWISE.

4.07 HEADED ANCHOR RODS: ASTM F 1554, GRADE 36, WELDABLE, STRAIGHT.NUTS: ASTM A 563 (ASTM A 563M) HEAVY-HEX CARBON STEEL, PLATE WASHERS: ASTM A 36/A 36M CARBON STEEL, WASHERS: ASTM F 436 (ASTM F 436M), TYPE 1, HARDENED CARBON STEEL. FINISH: HOT-DIP ZINC COATING, ASTM A 153/A 153M, CLASS C MECHANICALLY DEPOSITED ZINC COATING, ASTM B 695, CLASS 50.

4.08 USE PRE-QUALIFIED WELDED JOINTS AS PER AISC, AND AWS D1.1 "STRUCTURAL WELDING CODE." USE ONLY CERTIFIED WELDERS; ALL ELECTRODES SHALL CONFORM TO AWS A5 GRADE E70XX. BARE ELECTRODE AND GRANULAR FLUX SHALL CONFORM TO AWS A5, F70 AWS FLUX CLASSIFICATION. MINIMUM WELD SIZE TO BE 3/16" FILLET WELD, U.N.O.

4.09 CUTS, BOLTS, COPING, ETC. REQUIRED FOR WORK OR OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.

4.10 ALTERNATE CONNECTION DETAILS MAY BE USED IF SUCH DETAILS ARE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE IS GRANTED. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTABILITY AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THE SPECIFIC DETAILS SHOWN ON THE DRAWINGS. IN ANY EVENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF SUCH ALTERNATE DETAILS, WHICH HE PROPOSES.

4.11 PROVIDE TEMPORARY BRACING OF STRUCTURAL FRAMING TO PROVIDE LATERAL SUPPORT UNTIL ALL PERMANENT BRACING MOMENT CONNECTIONS AND FLOOR AND ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED.

4.12 STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND DRAWINGS RELATED TO OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND COORDINATE DIMENSIONS, CLEARANCES, ETC. WITH THE WORK OF OTHER TRADES. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE FRAMING AROUND OPENINGS IN FLOOR AND ROOF SLAB AS INDICATED IN THE MECHANICAL AND ARCHITECTURAL DRAWINGS.

4.13 PRIMER: SSPC-PAINT 25, TYPE I, ZINC OXIDE, ALKYD, LINSEED OIL PRIMER.

4.14 HIGH PERFORMANCE PAINT SYSTEM SHALL BE USED FOR ALL EXTERIOR STEEL STRUCTURES. EQUIVALENT SYSTEM BY OTHER MANUFACTURERS MAY BE PROPOSED. HOWEVER, THE ENGINEER SHALL BE THE SOLE JUDGE OF ACCEPTABILITY AND THE CONTRACTOR'S BID SHALL ANTICIPATE THE USE OF THE SPECIFIC SYSTEM.

HIGH PERFORMANCE ZINC RICH URETHANE PRIMER/ EPOXY INTERMEDIATE/ FLOUROPOLYMER URTETHANE FINISH PAINTSYSTEM:
SURFACE PREPARATION REMOVE ALL GREASE AND OTHER SOLUBLE CONTAMINANTS IN ACCORDANCE WITH SSPC-SP1 SOLVENT CLEANING.
SHOP SURFACE PREPARATION SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP10 NEAR WHITE BLAST CLEANING. PRIME ANY BARE STEEL THE SAME DAYAS IT IS CLEANED AND BEFORE ANY RUST BLOOM HAS FORMED. SURFACE PROFILE SHALL BE 1.5-2.5/

PRIMER: TNEMEC SERIES 90-97 TNEME-ZINC (2.5 – 3.5 MILS DFT)
FIELD TOUCH UP REPAIR SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP11 POWER TOOL CLEANING TO BARE METAL.
FIELD TOUCH UP: TOUCH UP FIELD WELDS AND SCRATCHES WITH 90-97 TNEMEC ZINC PRIMER (2.5- 3.5 MILS DFT)

STRIPE COAT: ALL SHARP EDGES, BOLTED CONNECTIONS, WELDED CONNECTIONS AND OTHER DIFFICULT TO COAT AREAS SHALL RECEIVE ONE COAT, APPLIED BY BRUSH, OF TNEMEC SERIES 66 EPOXOLINE (4.0-6.0 MILS DFT)
PREPARATION PRIOR TO APPLICATION OF FINISH COATS: ALL SURFACES TO BE COATED SHALL BE HIGH PRESSURE WATER WASHED USING CHLOR*RID TO REMOVE ALL CHLORIDES, DIRT, DUST, AND OTHER FOREIGN MATTER.
2ND COAT: TNEMEC SERIES 66 EPOXOLINE (4.0-6.0 MILS DFT)
3RD COAT: TNEMEC 1070 FLOURONAR (2.0 – 3.0 MILS DFT)

5.00 POST-INSTALLED ANCHORS

5.01 ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY SIMPSON OR HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

5.02 INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING AND IN STRICT ACCORDANCE WITH THE CURRENT ICC ESR.

5.03 THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

5.04 ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

5.05 EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

5.06 ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION IN ACCORDANCE WITH ACI 318- D.2.2.

5.07 INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318-19 (SECTION D.9.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.

5.08 PROVIDE SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE APPLICABLE BUILDLING CODE AND PER THE CURRENT ICC-ES REPORT FOR THE ANCHOR.

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No.	Description	Date

GENERAL NOTES

Date	12/19/2025
Drawn By	JES
Checked By	JES

S001

6.00 COLD FORMED METAL FRAMING

6.01 ALL LOAD-BEARING (IN-PLANE OR OUT-OF-PLANE) STUDS INDICATED SHALL BE 16 GAUGE MINIMUM AND HAVE 1-5/8" WIDE MINIMUM FLANGES WITH A ½" LIP AND SHALL BE SPACED AT 1'-4" O.C. MAX. SPACING, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS. ALL TRACK INDICATED SHALL BE 16 GAUGE MINIMUM AND HAVE 1-1/4" WIDE MINIMUM FLANGES, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS.

6.02 THE CONTRACTOR SHALL ACCOUNT FOR ALL REQUIRED CONNECTIONS IN HIS BID.

6.03 ALL FIELD CUTTING OR STUDS MUST BE DONE BY SAWING, SHEARING OR PLASMA CUTTING. OTHER TORCH CUTTING METHODS OF COLD-FORMED MEMBERS ARE UNACCEPTABLE.

6.04 NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS OTHERWISE DETAILED WITHIN THIS DRAWING PACKAGE.

6.05 SPLICING OF WALL STUDS IS NOT ALLOWED, UNLESS OTHERWISE DETAILED WITHIN THE DRAWING PACKAGE.

6.06 FRAMING FABRICATOR IS TO ENSURE PUNCH OUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS TO LENGTH. LATERAL BRACING MUST BE INSTALLED AT THE TIME THE WALL IS ERECTED. FAILURE TO INSTALL BRACING AT THIS TIME MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING.

6.07 DESIGN ASSUMES CONDITION TO BE IN FINAL LOCATION AND STABILIZED. TEMPORARY BRACING (BY OTHERS) OR OTHER MEANS OF STABILIZATION MAY BE REQUIRED UNTIL FRAMING IS IN ITS STABLE AND FINAL CONDITION.

6.08 IF AXIALLY LOADED: USE A MINIMUM OF THREE STUDS AT THE INTERSECTION OF ALL LOAD BEARING WALLS (EXTERIOR OR INTERIOR) UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS OR THIS DRAWING PACKAGE.

6.09 IF AXIALLY LOADED: JOIST OR ROOF MEMBERS MUST BEAR DIRECTLY OVER STUD. IF NOT, A STRUCTURAL DISTRIBUTION MEMBER (DESIGNED ACCORDINGLY) IS REQUIRED ON TOP OF RUNNER TRACK FOR PROPER BEARING AND ANCHORAGE.

6.10 SPLICING OF HEADERS IS NOT ALLOWED, UNLESS OTHERWISE DETAILED WITHIN THIS DRAWING PACKAGE.

6.11 IF ADDITIONAL HOLES ARE REQUIRED IN THE METAL STUDS OR JOISTS, CONTACT A LICENSED PROFESSIONAL ENGINEER FOR GUIDANCE BEFORE CUTTING HOLES.

6.12 PER THE AISI STANDARD FOR COLD-FORMED FRAMING – WALL DESIGN, THE MAXIMUM ALLOWABLE GAP (MEASURED BEFORE THE WEB OF THE STUD AND THE WEB OF THE TRACK) FOR A STUD SEATED IN A TRACK IS ¼" FOR NON-AXIAL LOAD BEARING CONDITIONS AND 1/8" FOR AXIAL LOAD BEARING CONDITIONS (U.N.O.). PRESSURE SHOULD BE APPLIED TO NEST THE STUDS INTO THE TRACKS UNTIL THE TOLERANCES LISTED ABOVE ARE ACHIEVED. FAILURE TO DO SO COULD RESULT IN SERVICEABILITY PROBLEMS IN THE FUTURE.

6.13 UTILITY PUNCH HOLES IN STUDS SHALL BE LOCATED AWAY FROM CONNECTIONS.

6.14 THE MINIMUM CLEAR DISTANCE FROM UTILITY PUNCH HOLE TO END OF MEMBER SHALL BE 10".

6.15 COLD FORMED METAL STUDS AND TRACKS: GALVANIZED STEEL PER ASTM A525, G90 COATING MEETING THE REQUIREMENTS OF ASTM A446 GRADE A, WITH A MINIMUM YEILD STRENGTH OF 33,000 PSI FOR METAL GAUGES 20 & 18 AND 50,000 PSI FOR METAL GAUGES 16, 14, & 12

6.16 ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR AN ANGULAR FIT TIGHT AGAINST ABUTTING MEMBERS. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO BOTH TOP AND BOTTOM RUNNERS. SPLICES IN STUDS ARE NOT PERMITTED.

6.17 SELF-DRILLING SCREWS SHALL BE #10 HEX WASHER HEAD, U.N.O. WITH A MINIMUM OF THREE EXPOSED THREADS SHALL PENETRATE THROUGH ALL JOINED MATERIALS.

6.18 COMPLETE, UNIFORM, AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR THE BOTTOM RUNNER. AT SPLICES WHERE SUPPORT IS NOT COMMON TO BOTH RUNNERS, EITHER BUTT WELD RUNNERS OR USE A STUD SECTION INSERTED IN THE RUNNER AS A SPLICING MEMBER ATTACHED PER MANUFACTURER'S RECOMMENDATIONS. RUNNER INTERSECTIONS SHALL BUTT EVENLY.

6.19 MAXIMUM VARIATION FROM TRUE POSITION OR OF ANY MEMBER FROM PLANE SHALL BE 1/16".

6.20 WHERE MANUFACTURER'S RECOMMENDATIONS FOR ERECTION, ATTACHMENT, ASSEMBLY, BRACING ALIGNMENT OR OTHER REQUIREMENTS ARE MORE STRINGENT THAN INDICATED IN THESE DRAWINGS OR THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENTDATIONS SHALL APPLY.

6.21 SEE ARCHITECTURAL DRAWINGS FOR INTERIOR WALL STUDS.

7.00 ALUMINUM

7.01 ALL PRIMARY MEMBERS WILL BE CONNECTED W/ BOLTS, POP RIVETS OR OTHER POSITIVE FASTENERS.

7.02 ANCHORS SHALL BE PLACED GREATER THAN 3" FROM EDGE OF CONCRETE SLAB OR FOOTINGS. ALL CONC. FASTENERS MUST BE EMBEDED A MIN. OF 1-3/4" INTO SOLID CONC.

7.03 FASTENERS FOR ALUM. SHEETS SHALL NOT EXCEED 8" O.C.

7.04 ALL CONC. ANCHORS SHALL HAVE A 1/2" MIN. HEAD OR BE PROVIDED W/ 1/2" DIA. WASHERS MIN.

7.05 CONTRACTOR IS RESPONSIBLE TO ISOLATE ALUM. MEMBERS FROM DISSIMILAR METALS TO PREVENT ELECTOLYSIS.

7.06 ALUM. IN CONTACT W/ CONC. SHALL BE PROTECTED W/ HEAVY BOOTED BITUMINOUS PAINT OR WTER WHITE METHACRYLATE LACCER.

7.07

BEAMS, PURLINS, COLUMNS	*AL 6063-T6
ALL OTHER EXTRUSIONS	AL 6063-T5
ALUMINUM SHEET	*AL 3003-H16
BOLTS, SCREWS, RIVETS, WASHERS	AL 2024-T4

*UNLESS NOTED OTHERWISE

7.08 ALL FASTENERS TO BE ALUM., NON-MAGNETIC STAINLESS STEEL, CADMIUM PLATED STEEL OR NYLON HEADED (HYLO-TEC OR PRO-TECT)

7.08 SELF-MATING BEAM SPLICE REQUIREMENTS
SPLICE LENGTH: LAP SPLICES FOR SELF-MATING BEAMS SHALL HAVE A MINIMUM SPLICE LENGTH OF THREE (3) TIMES THE BEAM DEPTH (E.G., 18" FOR 6" BEAMS, 24" FOR 8" BEAMS).
FASTENERS: USE #14 TEK SCREWS FOR ALL SELF-MATING BEAM CONNECTIONS.
TYPICAL SPACING: 16" ON CENTER (O.C.) ALONG THE LENGTH OF THE BEAM (TOP & BOTTOM). AT SPLICE JOINTS, SCREWS SHALL BE PLACED AT 6" O.C. (TOP & BOTTOM FLANGES).
ALIGNMENT: SPLICE CONNECTIONS SHALL BE INSTALLED TO MAINTAIN PROPER BEAM ALIGNMENT AND FULL BEARING CONTACT ALONG THE MATING SURFACES.
FIELD VERIFICATION: CONTRACTOR SHALL VERIFY SPLICE LOCATIONS AND CONFIRM FASTENING PER DESIGN REQUIREMENTS BEFORE INSTALLATION.

WIND LOAD DETERMINATION ASSUMPTIONS - FLORIDA BUILDING CODE 2023					
WIND VELOCITY (MPH)	EXPOSURE CATEGORY	MEAN ROOF HEIGHT (FT.)	ROOF SLOPE	RISK CATEGORY	ENCLOSURE CATEGORY
168	C	18	2:12	IV	ENCLOSED

Ultimate Wind Pressures

Wind Loads - Components & Cladding : h ≤ 60'

Base pressure (qh) = 63.8 psf
(Kd qh) = **54.3 psf**
Minimum parapet ht = 0.0 ft
Roof Angle (θ) = 9.5 deg
Type of roof = Gable

Kh = 0.883
h = 18.0 ft
a = 7.2 ft
GCpi = +/-0.18
Kd qi = Kd qh = 54.3 psf

Roof

Area	GCp +/- Gcpi 10 sf	100 sf	200 sf	300 sf	Surface Pressure (psf) 10 sf	100 sf	200 sf	300 sf	User input 25 sf	50 sf
Negative Zone 1	-2.18	-1.16	-0.86	-0.68	-118.3	-63.2	-46.6	-36.9	-96.4	-79.8
Negative Zone 2	-2.88	-1.57	-1.18	-1.18	-156.3	-85.4	-64.0	-64.0	-128.1	-106.7
Negative Zone 3	-3.78	-1.98	-1.98	-1.98	-205.1	-107.4	-107.4	-107.4	-166.2	-136.8
Positive All Zones	0.78	0.55	0.48	0.48	42.3	29.8	26.0	26.0	37.3	33.6
Overhang Zone 1	-2.99	-1.82	-1.46	-1.26	-162.2	-98.5	-79.3	-68.1	-136.9	-117.7
Overhang Zone 2 @zone 4	-3.69	-2.22	-1.78	-1.76	-200.2	-120.7	-96.7	-95.2	-168.6	-144.6
Overhang Zone 2 @zone 5	-3.96	-2.34	-1.85	-1.79	-214.9	-126.7	-100.2	-97.1	-179.8	-153.3
Overhang Zone 3	-4.59	-2.63	-2.58	-2.56	-249.0	-142.7	-140.2	-138.6	-206.7	-174.7

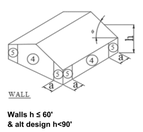
Overhang pressures in the table above assume an internal pressure coefficient (Gcpi) of 0.0
Overhang soffit pressure equals adj wall pressure (which includes internal pressure of 9.8 psf)

Walls

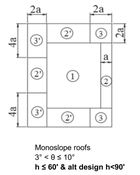
Area	GCp +/- GCpi 10 sf	100 sf	200 sf	500 sf	Surface Pressure at h 10 sf	100 sf	200 sf	500 sf	User input 25 sf	50 sf
Negative Zone 4	-1.17	-1.01	-0.96	-0.90	-63.5	-54.9	-52.3	-48.8	-60.0	-57.5
Negative Zone 5	-1.44	-1.12	-1.03	-0.90	-78.1	-60.9	-55.7	-48.8	-71.3	-66.1
Positive Zone 4 & 5	1.08	0.92	0.87	0.81	58.6	50.0	47.4	43.9	55.2	52.6

Note: GCp reduced by 10% due to roof angle <= 10 deg.

Location of C&C Wind Pressure Zones - ASCE 7-22

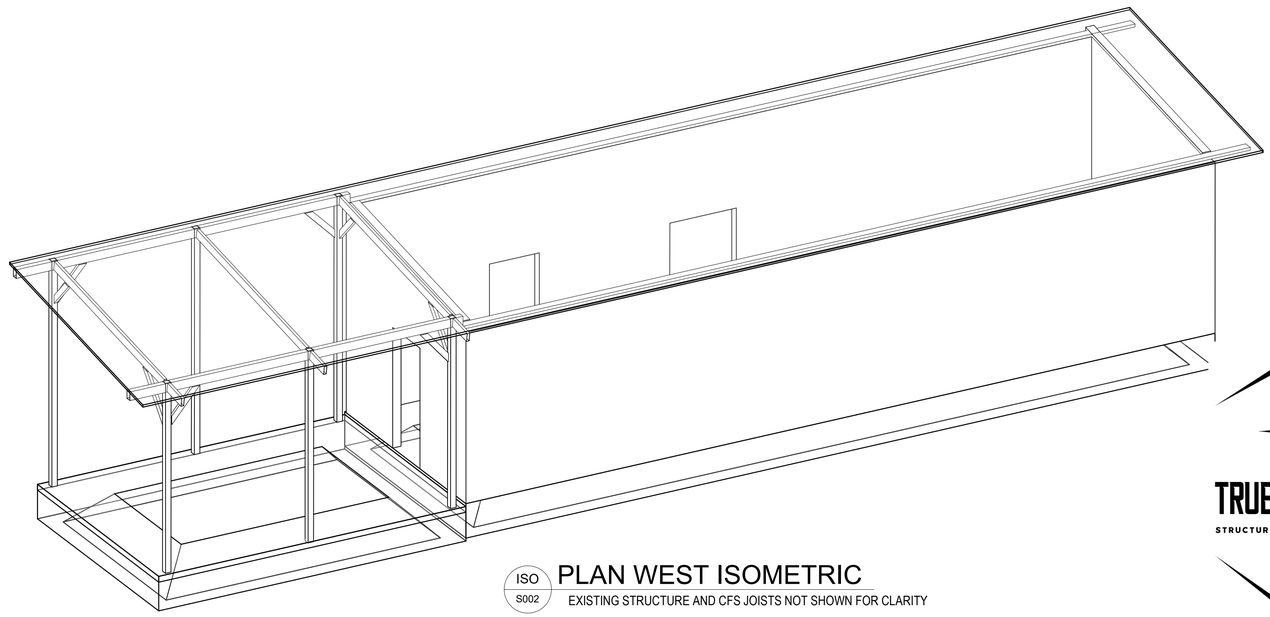


Walls h ≤ 60'
& alt design h<90'



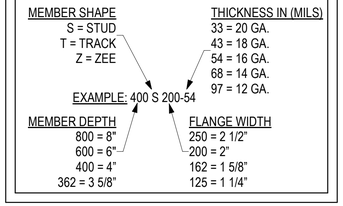
Monoslope roofs
3° < θ ≤ 10°
h ≤ 60' & alt design h<90'

NOTES:
1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
2. THE EDGE STRIP, a = 7.2 FT, 0.2h = 3.6 FT., 0.6h = 10.8 FT.
3. PRESSURES SHALL BE APPLIED IN ACCORDANCE WITH THE FIGURE SHOWN ON THIS SHEET.
4. PRESSURES GIVEN ARE ULTIMATE LOADS TO BE USED WITH STRENGTH DESIGN. FOR SERVICE LOADS TO BE USED WITH ALLOWABLE STRESS DESIGN, MULTIPLY THE PRESSURES BY 0.60. SEE TABLES 2.3 AND 2.4 IN ASCE 7-22 FOR MORE INFORMATION ON LOAD COMBINATIONS.



ISO S002 PLAN WEST ISOMETRIC
EXISTING STRUCTURE AND CFS JOISTS NOT SHOWN FOR CLARITY

COLD FORMED METAL FRAMING MEMBER DESIGNATION



Ajax BUILDING CORPORATION
GMC

FIRE STATION 3

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No.	Description	Date

GENERAL NOTES CONT. & WIND LOAD CRITERIA

Date	12/19/2025
Drawn By	JES
Checked By	JES

S002

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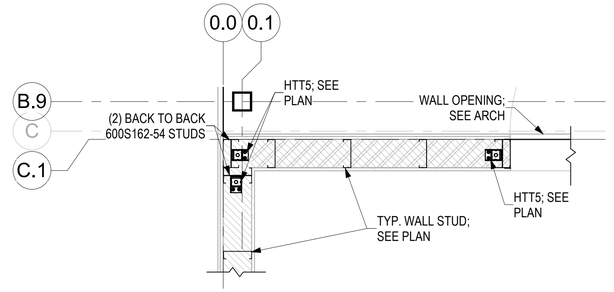
LEGEND

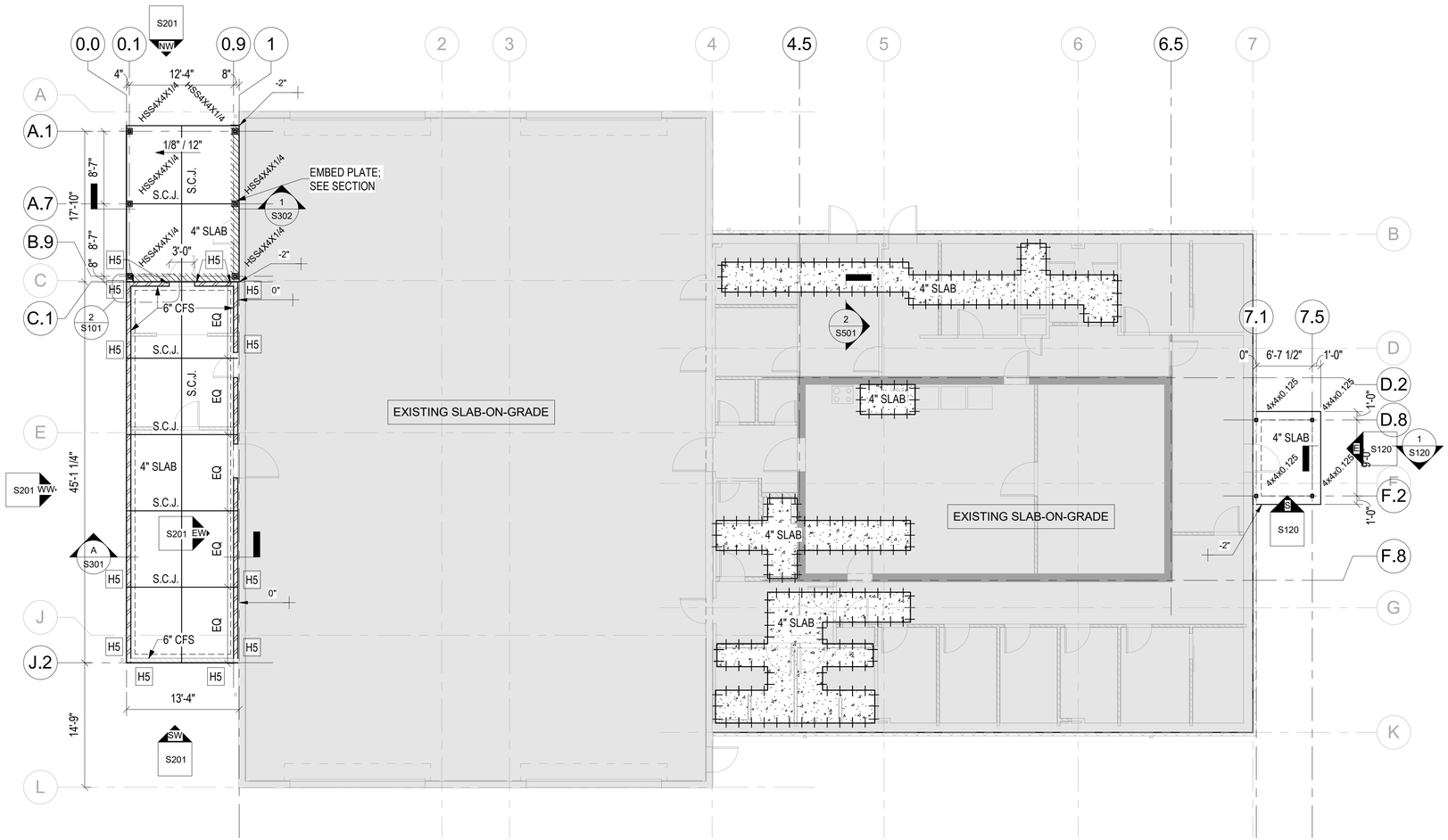
S.C.J.	=	SAWN CONTRACTION JOINT OR CONSTRUCTION JOINT; CONTRACTOR'S OPTION U.N.O. PLACE S.C.J. WHERE SHOWN.
-X'-X"	=	SLAB DEPRESSION; SEE PLAN FOR DEPRESSION EXTENTS AND DEPRESSION DEPTH BELOW REF. EL: 0'-0"
4" SLAB	=	4" MINIMUM THICKNESS SLAB-ON-GRADE REINFORCED WITH WWF 6x6 W2.0xW2.0 WITH 2 1/2" CLR. POSITIVE SUPPORT FROM BOTTOM OF SLAB. SLAB SHALL BE PLACED OVER A VAPOR BARRIER AND CAPILLARY BREAK AS INDICATED IN THE GENERAL NOTES SECTION 2.08 ON SHEET S-001.
6" CFS	=	6" COLD FORMED STEEL FRAMED WALL WITH 600S162-54, 50 KSI WALL STUDS SPACED AT 16" ON CENTER; U.N.O.
4x4x0.125	=	4"x4"x1/8" ALUMINUM COLUMN.
H5	=	SIMPSON HTT5 AT EACH JAMB, BLDG. CORNER & END OF X-BRACING W/ (1) 5/8" Ø HILTI KWIK HUS-EZ W/ 6" MIN EMBEDMENT

G.C. NOTE: NO FOUNDATION UNDERCUT SHALL OCCUR WITHIN 10.0-FEET OF THE EXISTING BUILDING AS MEASURED FROM THE EXISTING EXTERIOR WALL FACE.

SHEET NOTE: ROOF JOISTS BETWEEN GRID LINES 0.1 AND 1.0 MUST ALIGN VERTICALLY WITH LOAD-BEARING CFS STUDS BELOW. DO NOT OFFSET JOISTS FROM SUPPORTING STUDS.



2 / S101 ENLARGED HOLD DOWN DETAIL
3/4" = 1'-0"



1 / S101 FOUNDATION & SLAB-ON-GRADE PLAN
1/8" = 1'-0"

FIRE STATION 3

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FOUNDATION & SLAB-ON-GRADE PLAN

Date	12/19/2025
Drawn By	JES
Checked By	JES

S101

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LEGEND

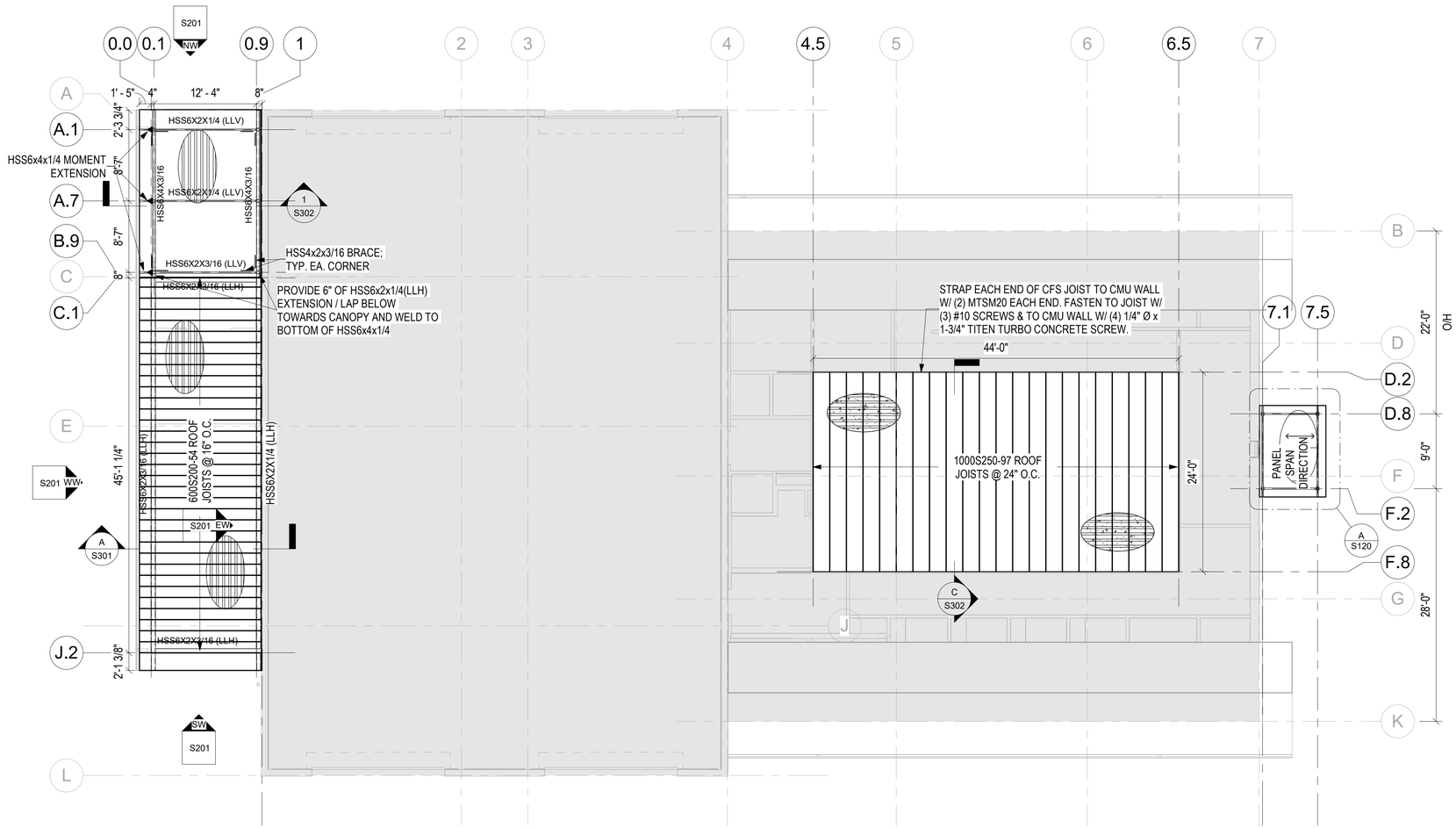
= 1.5" TYPE B 18 GA VULCRAFT OR EQUIVALENT ROOF DECK
TH= 0.0474 in I= 0.289 in^4/ft

INSTALLATION/ATTACHMENT **OVER CFS TRUSSES**:
SUPPORT FASTENERS: #12 SCREWS
SIDELAP FASTENERS: #10 SCREWS
FASTENER LAYOUT:
ZONES 1, 2 & 3: #12 SCREWS @ **36/7 PATTERN**
SIDELAP FASTENER @ 18" ON CENTER

INSTALLATION/ATTACHMENT **OVER CANOPY HSS FRAMING**:
SUPPORT FASTENERS: #12 SCREWS
SIDELAP FASTENERS: #10 SCREWS
FASTENER LAYOUT:
ZONES 1, 2 & 3: #12 SCREWS @ **36/14 PATTERN**
SIDELAP FASTENER @ 18" ON CENTER

= 1.5" TYPE C 22 GA VULCRAFT OR EQUIVALENT ROOF DECK (TH= 0.0295 in, I= 0.177 in^4/ft) ROOF DECK WITH 2" **LIGHT WEIGHT CONCRETE** COVER (3 1/2" TOTAL) REINFORCED WITH ONE LAYER WWF W2.9 x 2.9 CHAIRED WITH 1-1/2" SLAB BOLSTERS AT 4'-0" ON CENTER OFF METAL DECK.
INSTALLATION/ATTACHMENT:
SUPPORT FASTENERS: #12 SCREWS
SIDELAP FASTENERS: #10 SCREWS
FASTENER LAYOUT:
ZONES 1, 2 & 3: #12 SCREWS @ 36/4 PATTERN
SIDELAP FASTENER SPACING: 18" O.C.

= NEW 3"x0.032" ESP "ELITE ALUMINUM" ROOF PANELS (SPANS BY DO KIM & ASSOCIATES, LLC FLORIDA PRODUCT APPROVAL # FL7561) (NET LOAD =40 PSF, L/120)



1 S111 ROOF FRAMING PLAN
1/8" = 1'-0"

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REVIEW SET
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No.	Description	Date

ROOF FRAMING PLAN

Date	12/19/2025
Drawn By	JES
Checked By	JES

S111

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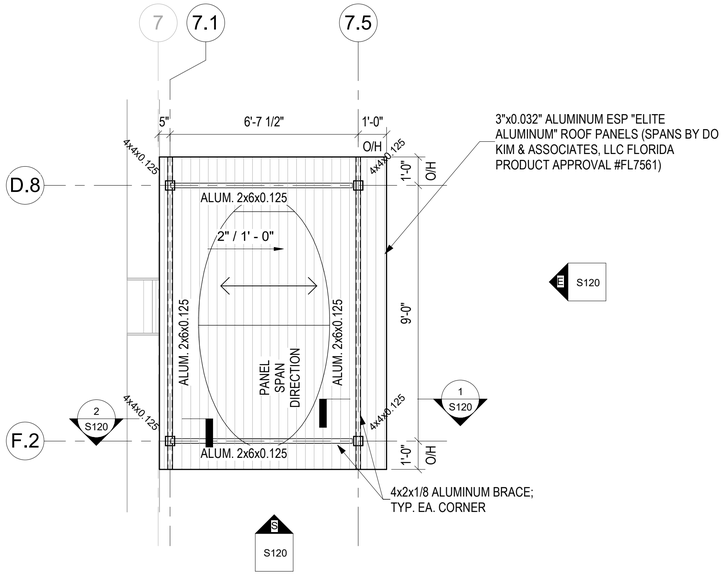
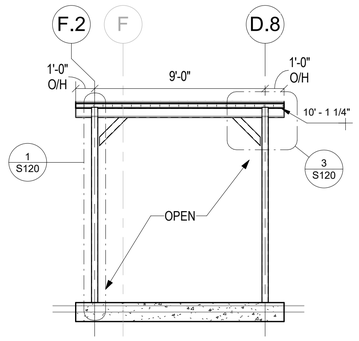
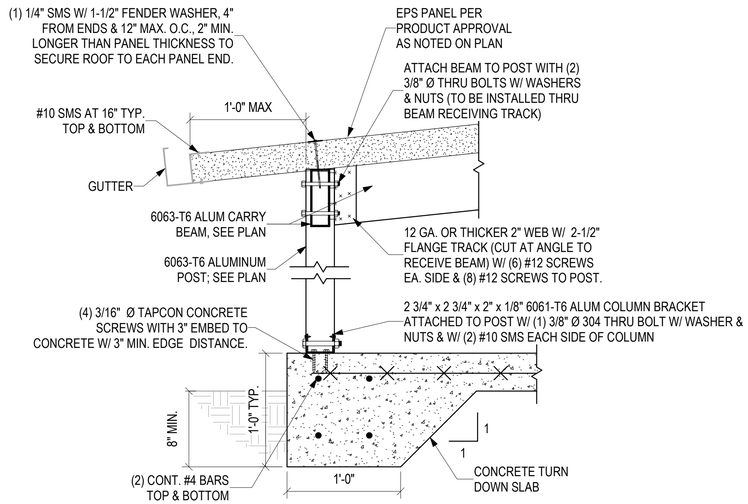
850.696.6784



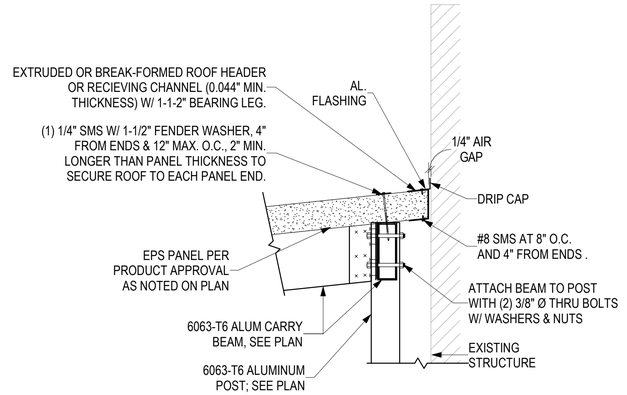
A S120 ALUMINUM CANOPY ROOF PLAN
3/8" = 1'-0"



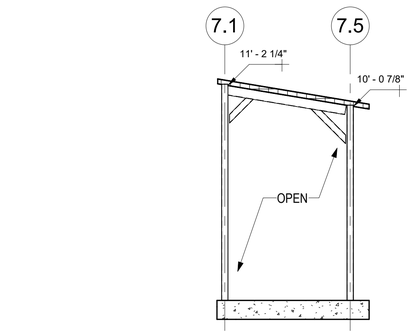
E S120 EAST CANOPY - EAST ELEVATION
1/4" = 1'-0"



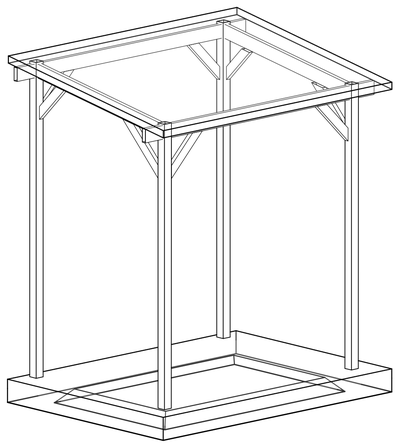
1 S120 ALUMINUM FRAMING SECTION 1
1 1/2" = 1'-0"



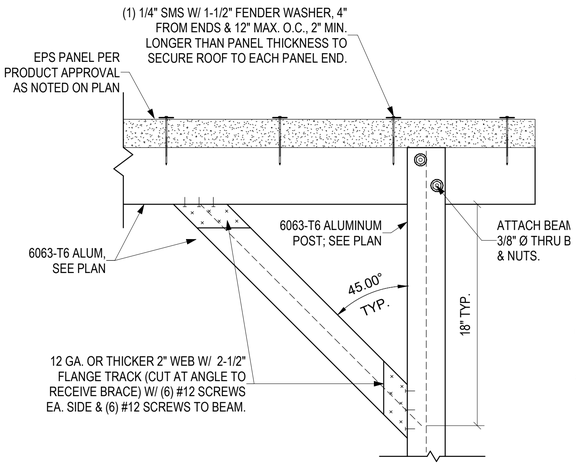
2 S120 ALUMINUM FRAMING SECTION 2
1 1/2" = 1'-0"



S S120 EAST CANOPY - SOUTH ELEVATION
1/4" = 1'-0"



ISO S120 CANOPY ISOMETRIC
EXISTING STRUCTURE NOT SHOWN FOR CLARITY



3 S120 ALUMINUM BRACING DETAILS
1 1/2" = 1'-0"

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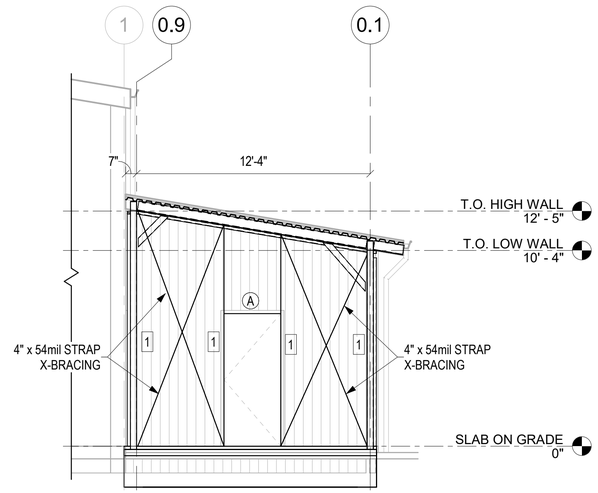
ALUMINUM CANOPY PLAN & DETAILS

Date	12/19/2025
Drawn By	JES
Checked By	JES

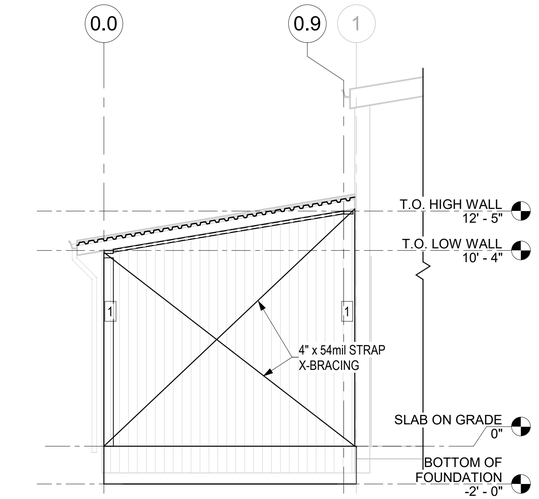
S120

JAMB SCHEDULE		
MARK	SIZE	DETAIL
1	(2) - 600S200-54 STUDS	9/S501

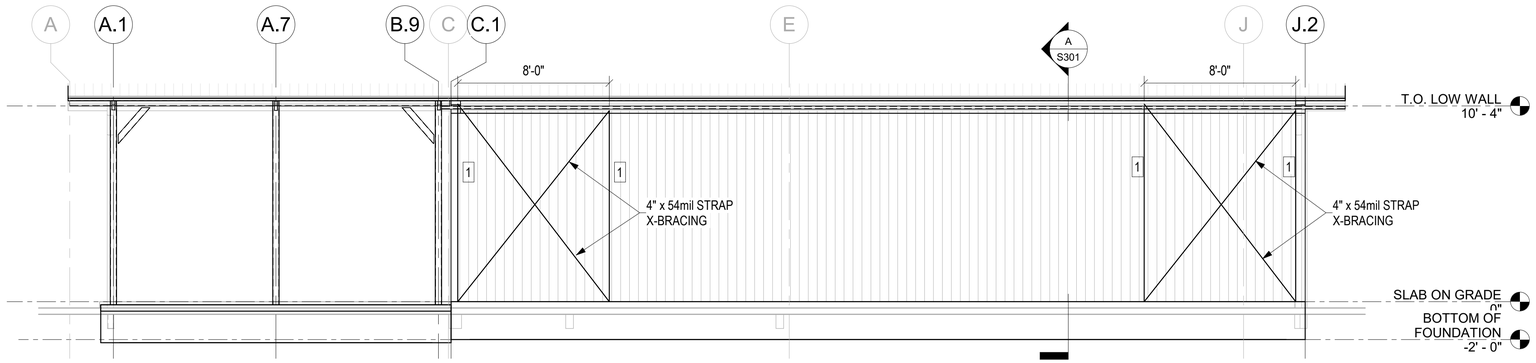
HEADER SCHEDULE		
MARK	SIZE	DETAIL
A	(2) - 600S162-54 + (2) - 600T125-54	5/S501
B	(2) - 600S162-54 + (2) - 600T125-54	7/S501



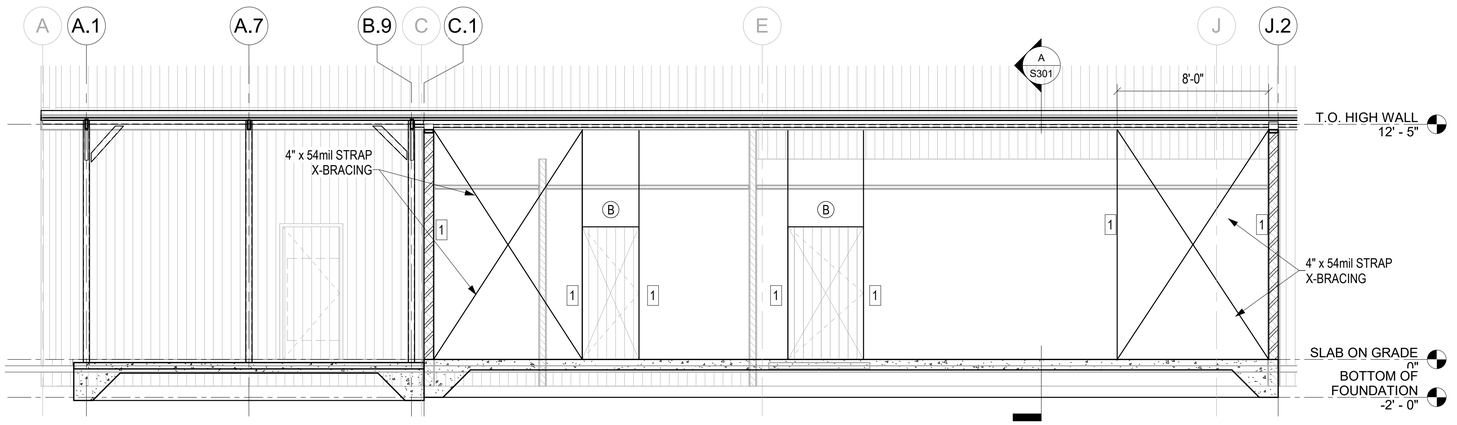
NW S201 NORTH ELEVATION - WEST ADDITION
1/4" = 1'-0"



SW S201 SOUTH ELEVATION - WEST ADDITION
1/4" = 1'-0"



WW S201 WEST ELEVATION - WEST ADDITION
1/4" = 1'-0"



EW S201 EAST ELEVATION - WEST ADDITION
1/4" = 1'-0"

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REVIEW SET
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No.	Description	Date

ELEVATIONS

Date	12/19/2025
Drawn By	JES
Checked By	JES

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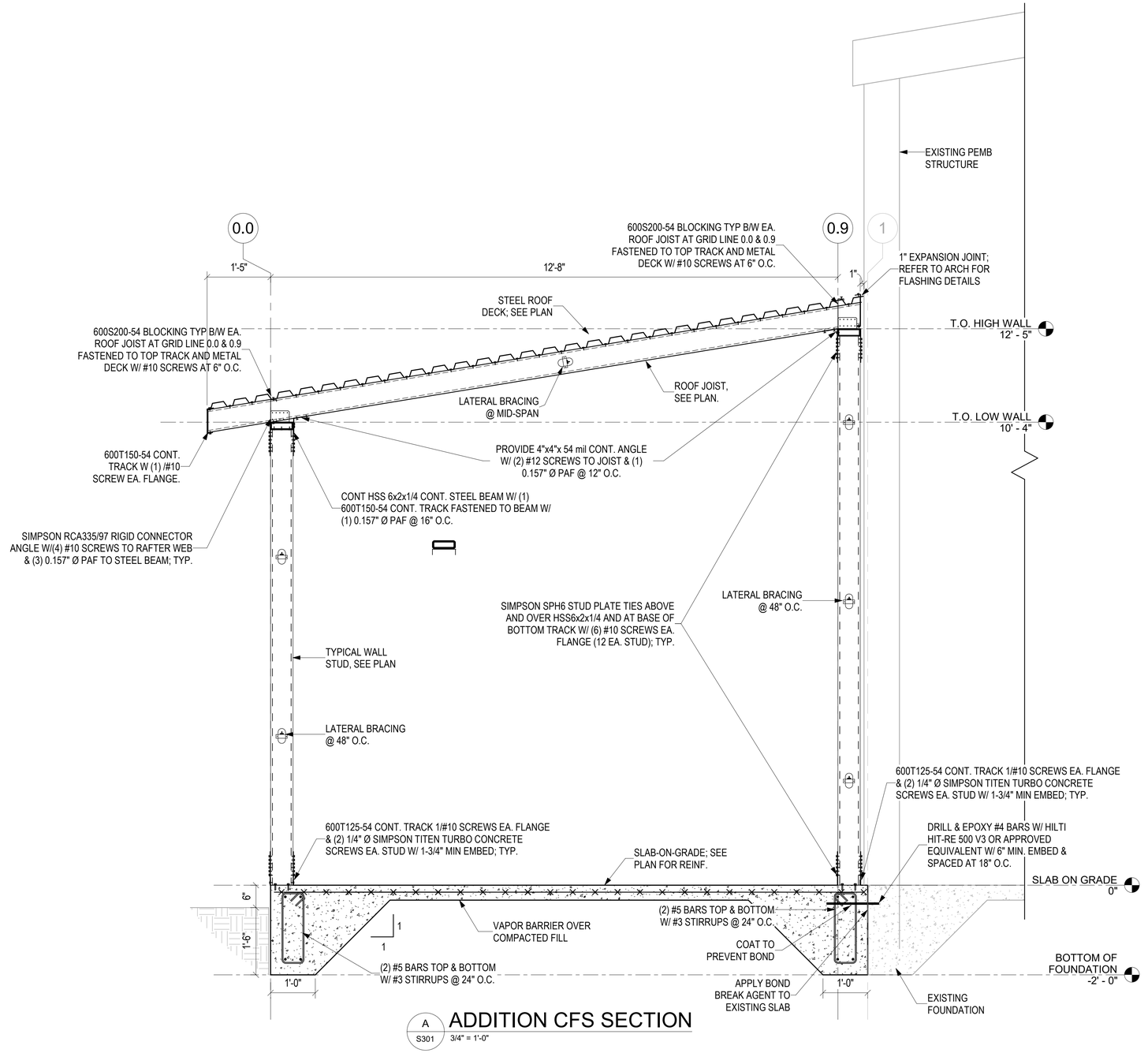

A / S301 ADDITION CFS SECTION

3/4" = 1'-0"

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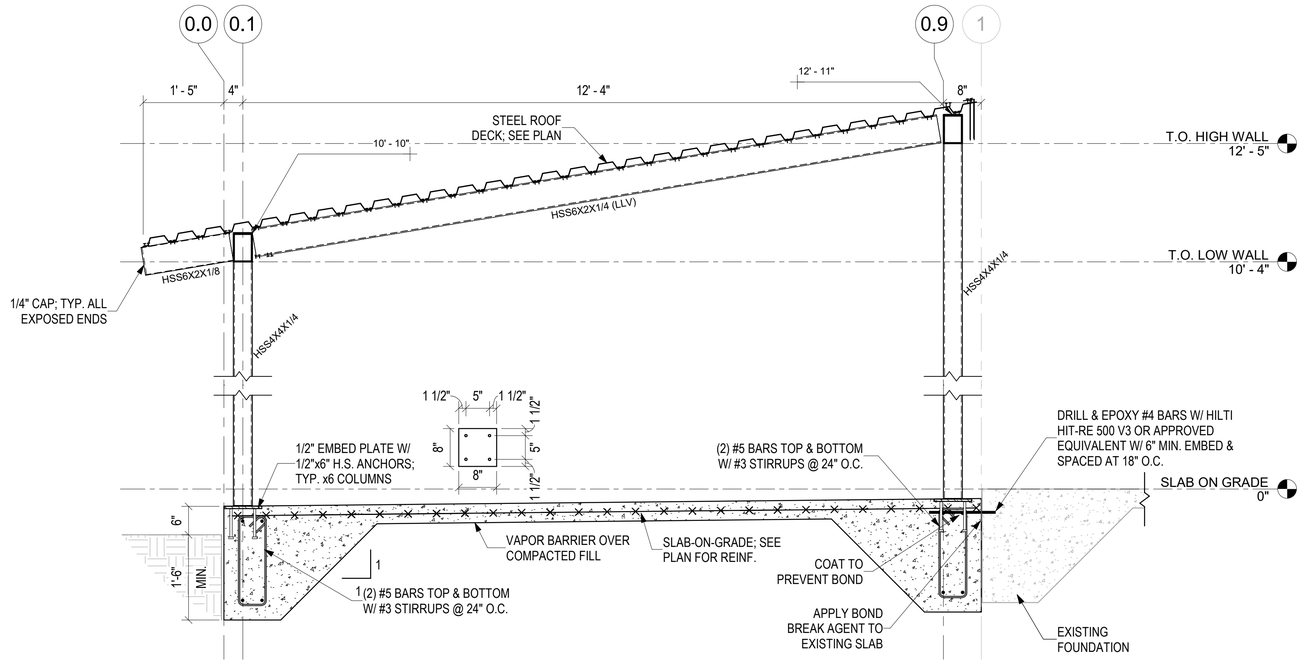
No.	Description	Date

BUILDING SECTIONS

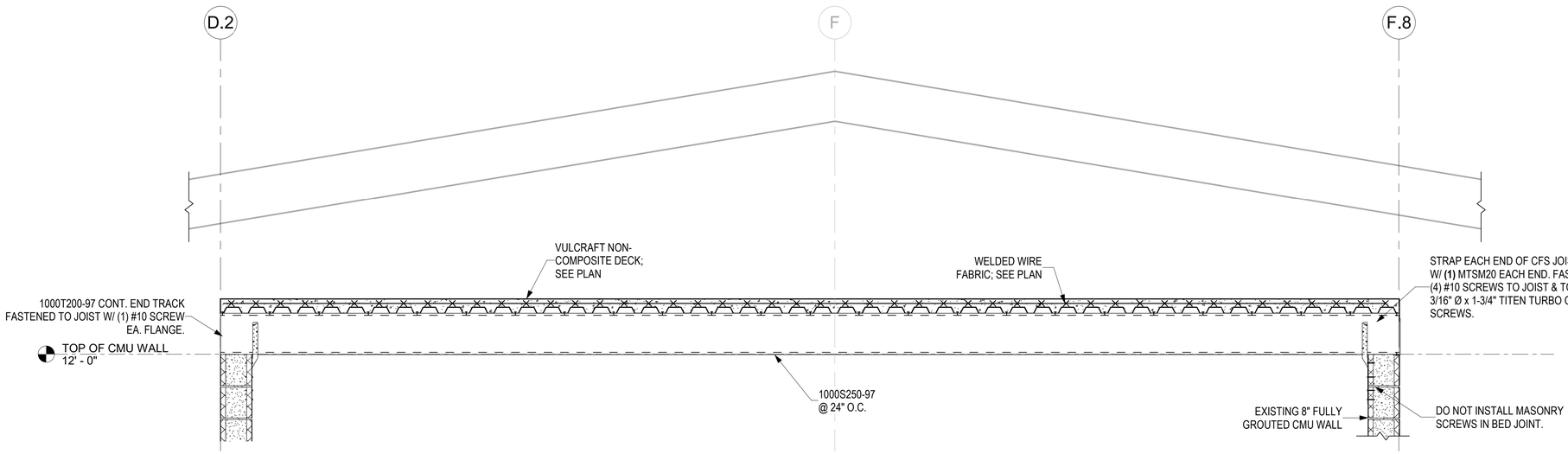
Date	12/19/2025
Drawn By	JES
Checked By	JES

S301



1 S302 SECTION THRU WEST CANOPY

3/4" = 1'-0"



C S302 TYPICAL STRENGTHENED CEILING DETAIL

3/4" = 1'-0"

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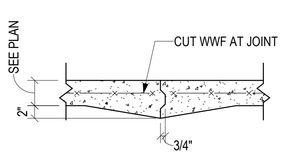
No.	Description	Date

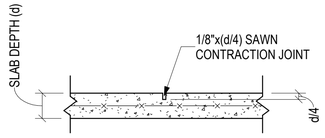
TYPICAL SECTIONS

Date	12/19/2025
Drawn By	JES
Checked By	JES

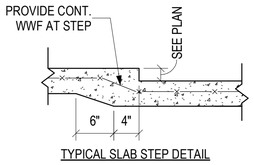
S302



CONSTRUCTION JOINT



SAWN CONTRACTION JOINT "S.C.J."

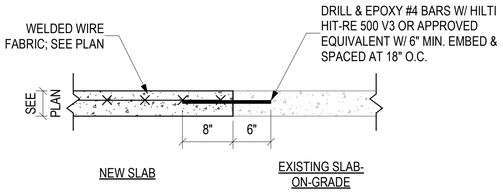


TYPICAL SLAB STEP DETAIL

SUBSTITUTION OF CONSTRUCTION JOINT FOR SAWN CONTRACTION JOINT IS AT CONTRACTOR'S OPTION

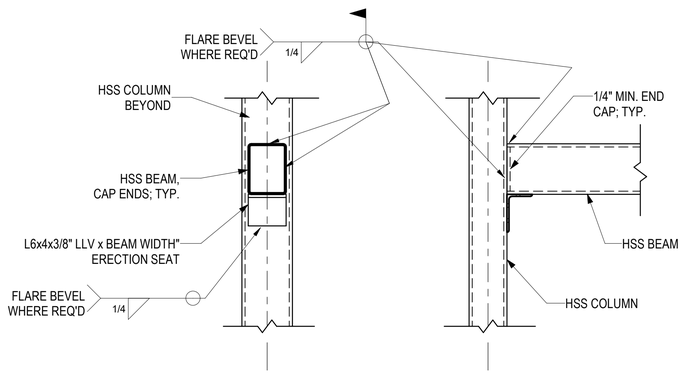
1 S501 SLAB-ON-GRADE DETAILS

1" = 1'-0"

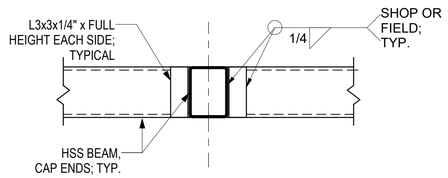


2 S501 TYPICAL SLAB INFILL SECTION

1" = 1'-0"



HSS BEAM TO HSS COLUMN, U.N.O.



HSS BEAM TO HSS BEAM, U.N.O.

3 S501 STEEL CONNECTION DETAILS

1" = 1'-0"

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No.	Description	Date

TYPICAL DETAILS

Date	12/19/2025
Drawn By	JES
Checked By	JES

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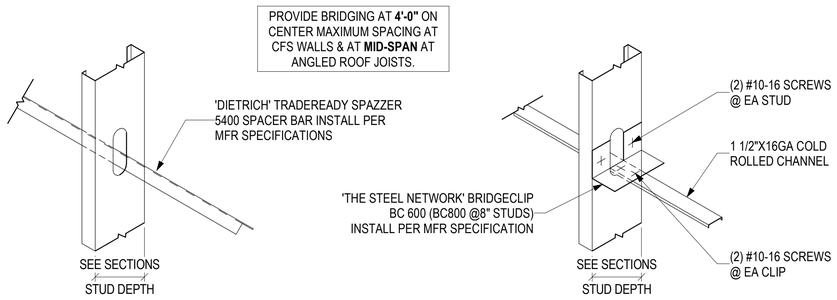
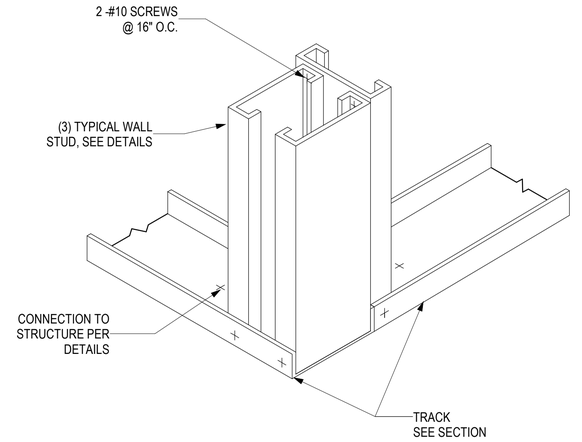
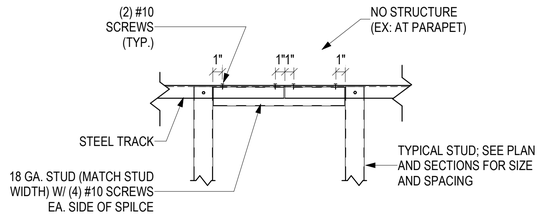


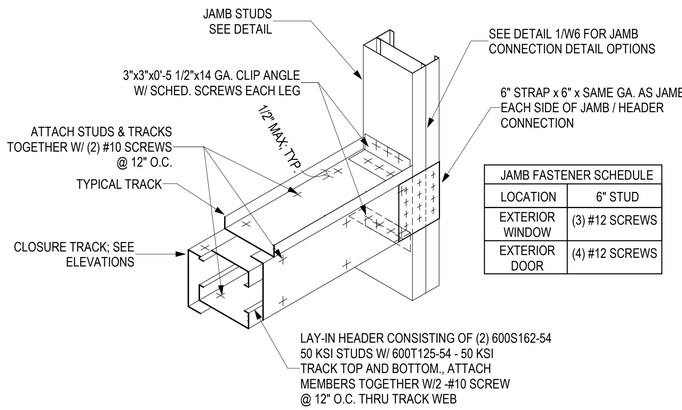
1 S502 CFS - BRIDGING DETAILS
1 1/2" = 1'-0"



2 S502 LGMF - TYPICAL WALL CORNER DETAIL
1 1/2" = 1'-0"

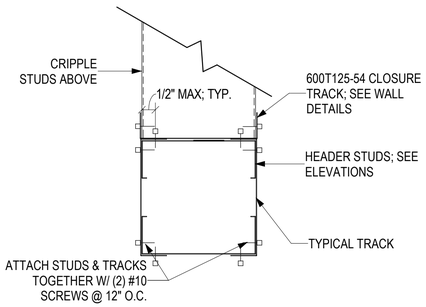


3 S502 TYPICAL SPLICE AT TRACK (NO STRUCTURE)
1 1/2" = 1'-0"

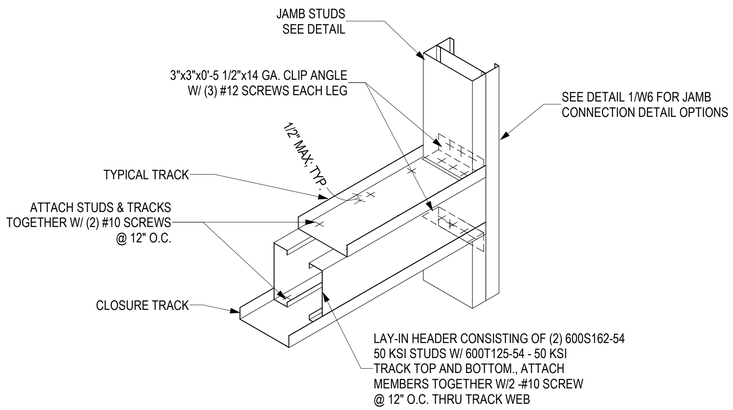


JAMB FASTENER SCHEDULE	
LOCATION	6" STUD
EXTERIOR WINDOW	(3) #12 SCREWS
EXTERIOR DOOR	(4) #12 SCREWS

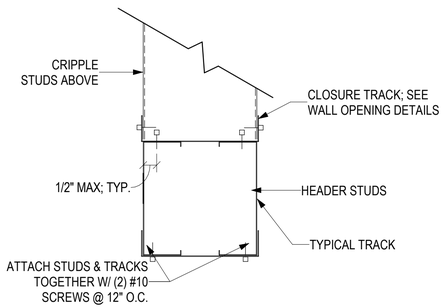
4 S502 TYPICAL EXTERIOR HEADER CONN. DETAIL
1 1/2" = 1'-0"



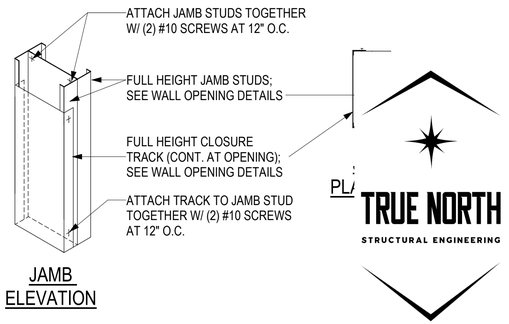
5 S502 TYPICAL EXTERIOR HEADER DETAIL
3" = 1'-0"



6 S502 TYPICAL INTERIOR HEADER CONN. DETAIL
1 1/2" = 1'-0"



7 S502 TYPICAL INTERIOR HEADER DETAIL
3" = 1'-0"



8 S502 TYPICAL JAMB DETAILS
1 1/2" = 1'-0"

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TYPICAL CFS DETAILS

Date	12/19/2025
Drawn By	JES
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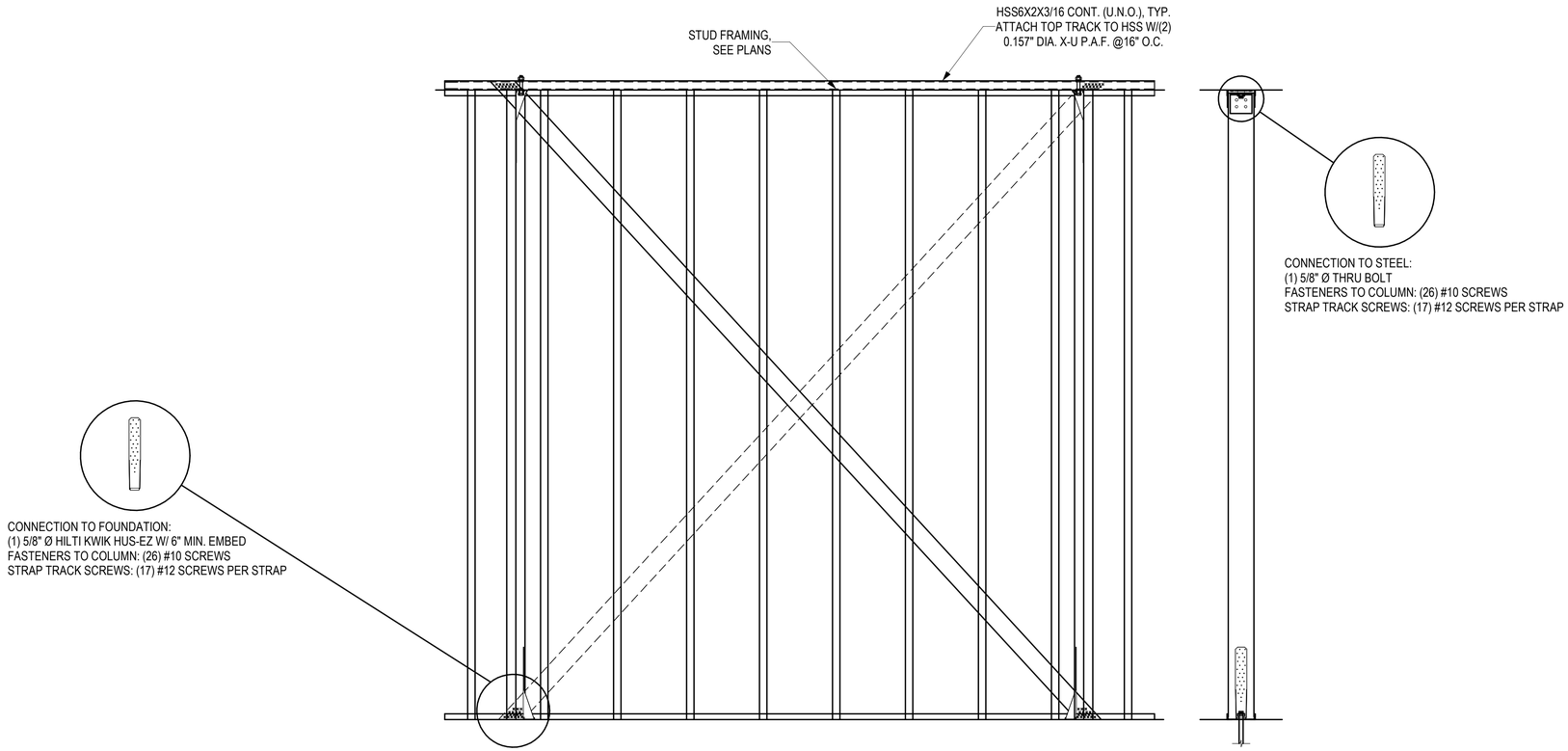
	COMPONENTS			
	COLUMN		BRACING	HOLDDOWN
12'-3" MAX. HT	BACK TO BACK 600S200-54; 50 KSI	I	4" x 54 MILS FLAT STRAP, FY = 50 KSI	SIMPSON HTT5



1 S503 TYPICAL X BRACING DETAILS

3/4" = 1'-0"

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Checked By	JES

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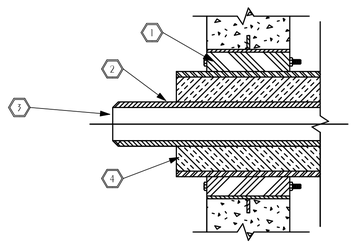
LEGEND

———	S OR W	SOIL OR WASTE PIPING
- - - -	V	VENT PIPING
— — —	CW	COLD WATER SUPPLY PIPING
— - —	HW	HOT WATER SUPPLY PIPING
— - - —	HWR	HOT WATER RETURN PIPING
— · —	TW	TEMPERED WATER PIPING (85°F)
——G——	G	GAS PIPING
	GV	GATE VALVE
	CV	CHECK VALVE
	BV	BALL VALVE
	HB/VB	HOSE BIBB WITH VACUUM BREAKER
	FPWH/VB	FREEZEPROOF WALL HYDRANT WITH VACUUM BREAKER
	CO	CLEANOUT TO FLOOR
	FD	FLOOR DRAIN
	FD	FLOOR DRAIN WITH TRAP PRIMER CONNECTION
	COTG	CLEANOUT TO GRADE
		UNION
	VTR	VENT THRU ROOF
1		SHEET NOTE
		POINT OF CONNECTION TO EXISTING
S		SOLENOID VALVE
	SK	SINK
	SH	SHOWER
	WC	WATER CLOSET
	TP	TRAP PRIMER
	EWH	ELECTRIC WATER HEATER
	WHA	WATER HAMMER ARRESTOR TYPE A
	WHB	WATER HAMMER ARRESTOR TYPE B
	WHC	WATER HAMMER ARRESTOR TYPE C
	L	LAVATORY
	UR	URINAL
	UB	UTILITY BOX
	KW	KILOWATT
	TCV	THERMOSTATIC CONTROL VALVE
	(E)	EXISTING
	(M)	INDICATES MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS.
	(C)	INDICATES CIVIL EQUIPMENT, REFER TO CIVIL DRAWINGS.



1. WALL SEAL APPURTENANCES PER SPECIFICATIONS
2. PIPE SLEEVE PER SPECIFICATIONS
3. PIPING
4. INSULATION

1 TYPICAL PIPE PENETRATION OF WALL
P001 SCALE: NONE

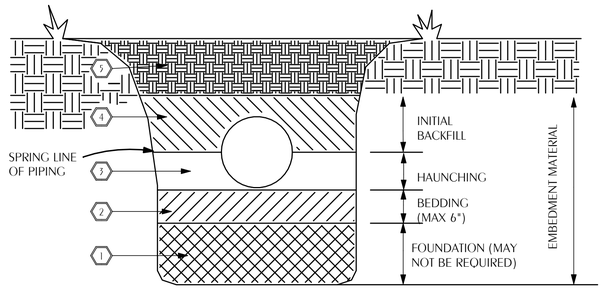
PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	FIXTURE CONNECTIONS-INCHES		
		CW	HW	W
WC-1	WATER CLOSET (STANDARD, FLUSH VALVE)	1	-	3
WC-2	WATER CLOSET (HANDICAP, FLUSH VALVE)	1	-	3
L-1	LAVATORY (STANDARD, COUNTERTOP)	1/2	1/2	1-1/2
L-2	LAVATORY (HANDICAP, COUNTERTOP)	1/2	1/2	1-1/2
SK-1	DOUBLE COMPARTMENT SINK	1/2	1/2	1-1/2
SK-2	SCULLERY SINK	1/2	1/2	1-1/2
SH-1	SHOWER (STANDARD)	1/2	1/2	2
SH-2	SHOWER (HANDICAP)	1/2	1/2	2
EWH-1	ELECTRIC WATER HEATER	1-1/4 INLET	1-1/4 OUTLET	-
EWH-2	ELECTRIC WATER HEATER	1-1/4 INLET	1-1/4 OUTLET	-
CP-1	CIRCULATION PUMP (INLINE)	-	3/4 FLANGE	-
UB-1	RECESSED UTILITY WALL BOX (ICE MAKER HOOK-UP)	1/2	-	-
UB-2	RECESSED UTILITY WALL BOX (CLOTHES WASHER SPACE)	3/4	3/4	2
TCV	TEMPERATURE CONTROL VALVE	-	1/2	-
FD	FLOOR DRAIN	-	-	3
TD-1	TROUGH DRAIN	-	-	3
WH	WALL HYDRANT	3/4	-	-
MV-1	WATER MIXING VALVE	1/2	1/2	-
TP	TRAP PRIMER	1/2	-	-
EW-1	EYEWASH (ONLY, MOUNTED TO SINK)	1/2	-	-

1. WATER SUPPLY TAPPING TO EACH PLUMBING FIXTURE SHALL BE FULL SIZE (MINIMUM).
2. SEE ELECTRICAL DWGS FOR FINAL POWER REQUIREMENTS.
3. PROVIDE WATER HAMMER ARRESTERS ON HOT & COLD WATER SUPPLY BRANCHES SERVING SINGULAR, MULTIPLE OR GROUPS OF PLUMBING FIXTURES. ADHERENCE TO THE PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I.-WH201 (PER SPECIFICATIONS) SHALL BE EMPLOYED IN DETERMINING PROPER SIZE, SELECTION, PLACEMENT, LOCATION AND INSTALLATION OF ARRESTERS.

1. A FOUNDATION MAY BE REQUIRED IN VERY POOR SOIL CONDITIONS.
2. BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE. IN DRY SOIL CONDITIONS, CLASS II OR III MATERIAL SHALL BE HAND PLACED IN 4-6", LIGHTLY COMPACTED UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. IN WET CONDITIONS, CLASS I, Ii OR III MATERIAL SHALL BE HAND PLACED IN 4-6", UNIFORM AND NOT FINER THAN THE FOUNDATION MATERIAL. WHEN UTILIZING CLASS I MATERIAL, SUFFICIENT AMOUNTS OF CLASS II OR III MATERIAL SHALL BE ADDED TO FILL ALL VOIDS CREATED BY THE USE OF CLASS I MATERIAL.
3. HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. CLASS II OR III MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
4. INITIAL BACKFILL MATERIAL SHALL BE CLASS II OR III. IT SHALL BE PLACED WITHIN 24-30" ABOVE THE TOP OF THE PIPE AND TAMPED BY A PORTABLE VIBRATOR. FINAL BACKFILL MATERIAL MAY BE MACHINE PLACED. THE MATERIAL SHALL BE CLASS II OR III MATERIAL. CLASS IV MATERIAL MAY BE INSTALLED OUTSIDE OF ROADWAY.
5. FINAL BACKFILL UNDER ROADWAYS MAY REQUIRE SPECIAL COMPACTION AND DENSITY TESTS. A MINIMUM OF 30" OF COVER OVER THE TOP OF THE PIPE SHALL BE PROVIDED BEFORE THE TRENCH IS WHEEL- LOADED.

NOTE:
ALL EMBEDMENT MATERIALS SHALL BE NO LESS THAN 95% OF MAXIMUM DENSITY. LABORATORY TESTING OF THE SOIL WILL BE REQUIRED. THIS PROCEDURE SHALL BE REQUIRED ON ALL INSTALLATIONS. ALL TRENCHING, EXCAVATION, AND BACKFILLING SHALL BE IN ACCORDANCE WITH 2023 FLORIDA PLUMBING CODE.



EMBEDMENT MATERIALS

CLASS I: ANGULAR, 1/4"-1-1/2", GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE AND CRUSHED SHELLS.

CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1-1/2" INCLUDING VARIOUS GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER WET OR DRY. SOIL TYPES GW, GP, SW, AND SP ARE INCLUDED IN THIS CLASS.

CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM, AND SC ARE INCLUDED IN THIS CLASS.

CLASS IV: SILT, SILTY CLAYS, AND CLAYS, INCLUDING INORGANIC CLAYS AND SILT OF MEDIUM TO HIGH PLASTICITY AND LIQUID LIMITS. SOIL TYPES MH, ML, CH, AND CL ARE INCLUDED IN THIS CLASS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

CLASS V: THIS CLASS INCLUDES THE ORGANIC SOILS, AS WELL AS SOILS CONTAINING FROZEN EARTH, DEBRIS, ROCKS LARGER THAN 1-1/2" IN DIAMETER AND OTHER FOREIGN MATERIALS. THESE MATERIALS ARE NOT TO BE USED FOR BEDDING, HAUNCHING, OR INITIAL BACKFILL.

2 EXCAVATION AND BACKFILL DETAIL
P001 SCALE: NONE

GENERAL NOTES

1. COORDINATE ALL PIPING WITH DUCTWORK SHOP DRAWINGS AND EXISTING CONDITIONS. ROUTE PIPING AS REQUIRED TO AVOID CONFLICTS.
2. PRIOR TO START OF ANY WORK, COORDINATE SANITARY SEWER AND POTABLE WATER PIPING WITH EXISTING SITE UTILITIES. REPORT ANY CONFLICT TO THE ARCHITECT.
3. FIELD VERIFY PIPE INVERTS PRIOR TO LAYING OUT SANITARY SEWER PIPING. COORDINATE WITH EXISTING CONDITIONS.
4. ALL PIPING PASSING THROUGH ANY WALL SHALL HAVE A SLEEVE PER SPECIFICATIONS. SEE 'TYPICAL PIPE PENETRATION OF WALL DETAIL' ON THIS SHEET.
5. ALL PIPING INDICATED IS ABOVE THE CEILING EXCEPT THE OBVIOUS SANITARY SOIL, WASTE, VENT AND POTABLE WATER PIPING BELOW FLOOR OR GRADE.
6. COORDINATE EXACT LOCATION OF ALL EXTERIOR WALL HYDRANTS WITH ARCHITECTURAL DRAWINGS. AND WITH THE OWNER IN THE FIELD.
7. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE 2 (TWO) PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
8. PRIOR TO SUBSTANTIAL COMPLETION OF NEW AND ALTERED WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES.
9. ALL (VTR'S) VENT THROUGH ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS.
10. ALL TRAP PRIMERS AND DOMESTIC WATER ISOLATION VALVES SHALL BE ACCESSIBLE. TRAP PRIMERS LOCATED IN THE VICINITY OF WATER CLOSETS SHALL BE ACTIVATED BY WATER CLOSET USAGE. ISOLATION VALVES SHALL BE OF THE QUARTER TURN BALL OR GATE TYPE.
11. CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION SHOP DRAWINGS WHICH IDENTIFY ROUTING OF PLUMBING PIPE AND LOCATION OF EQUIPMENT. SHOP DRAWINGS SHALL INDICATE COORDINATION WITH THE WORK OF OTHER TRADES.
12. ALL WORK SHALL COMPLY WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023) PLUMBING.

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CITY of CRESTVIEW, FLORIDA — The Hub City of Northwest Florida — OKALOOSA 1916 COUNTY

Ajax BUILDING CORPORATION

GMC

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

LEGEND, SCHEDULE, NOTES, AND DETAILS

Date	12/19/2025
Drawn By	JDD
Checked By	SLD

P001

PLUMBING FIXTURE SPECIFICATIONS

WC-1 WATER CLOSET, FLOOR-MOUNT (STANDARD, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD. EXPOSED CHROME PLATE FLUSH VALVE, WITH SCREWDRIVER STOP, VACUUM BREAKER, QUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES.

WATER CLOSET	ZURN Z5655-BWL1
SUPPLY W/STOP	ZURN Z6000PL-HET
SEAT	ZURN Z5955SS-EL-STS
CLOSET BOLT/WAX RING KIT	ZURN Z5972-COMB

WC-2 WATER CLOSET, FLOOR-MOUNT (HANDICAP, MANUAL VALVE):

VITREOUS CHINA, 1.28 GALLONS PER FLUSH, ELONGATED, HIGH EFFICIENCY SIPHON JET, WHITE, WATER SAVER BOWL WITH 1-1/2" TOP SPUD, 17" HIGH FOR HANDICAPPED. EXPOSED CHROME PLATE FLUSH VALVE, WITH SCREWDRIVER STOP, VACUUM BREAKER, QUIET FLUSH FEATURE, WITH SWEAT SOLDER KIT AND CAST WALL FLANGE. HEAVY MOLDED PLASTIC, WHITE, ELONGATED, OPEN FRONT SEAT LESS COVER, WITH STAINLESS STEEL, SELF-SUSTAINING CHECK HINGES. HOLD CENTERLINE FLUSH VALVE ASSEMBLY OFF FINISH WALL FOR GRAB BAR CLEARANCES, COORDINATE WITH ARCHITECTURAL DRAWINGS.

WATER CLOSET	ZURN Z5665BWL
SUPPLY W/STOP	ZURN Z6000PL-HET
SEAT	ZURN Z5955SS-EL-STS
CLOSET BOLT/WAX RING KIT	ZURN Z5972-COMB

L-1 LAVATORY, COUNTERTOP (STANDARD):

VITREOUS CHINA 20" X 17", OVAL, COLOR "WHITE", 4" CENTERS, FRONT OVERFLOW. PROVIDE CHROME PLATED 1/2" IPS X 3/8"OD, LOOSE KEY OPERATED, ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE COPPER RISERS, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINGLE LEVER FAUCET WITH COVER PLATE, NON-AERATED LAMINAR SPRAY, 0.5 GPM. PROVIDE MIXING VALVE.

LAVATORY	ZURN Z5114
FAUCET	ZURN Z-81000-XL-3M
SUPPLY W/STOP	ZURN 8802CRLK-PC
P-TRAP	ZURN Z8700-PC
DRAIN	ZURN Z8743-PC
MIXING VALVE	MV-1

L-2 LAVATORY, COUNTERTOP (HANDICAP):

VITREOUS CHINA 20" X 17", OVAL, COLOR "WHITE", 4" CENTERS, FRONT OVERFLOW. PROVIDE CHROME PLATED 1/2" IPS X 3/8"OD, LOOSE KEY OPERATED, ANGLE STOP TO WALL WITH CHROME PLATED 3/8" FLEXIBLE COPPER RISERS, INTEGRAL PERFORATED CAST BRASS STRAINER WITH ELBOW AND 1-1/4" OFFSET TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. POLISHED CHROME PLATED CAST BRASS SINGLE LEVER FAUCET WITH COVER PLATE, NON-AERATED LAMINAR SPRAY, 0.5 GPM. LAVATORY P-TRAP AND ANGLE STOP VALVE ASSEMBLY AND RISERS SHALL BE INSULATED WITH A WHITE FULLY MOLDED EVA FOAM TUBULAR COVER. COVERS SHALL JOIN USING SECURE FIT HOOK AND LOOP CONNECTION. PROVIDE MIXING VALVE.

LAVATORY	ZURN Z5114
FAUCET	ZURN Z-81000-XL-3M
SUPPLY W/STOP	ZURN 8802CRLK-PC
P-TRAP	ZURN Z8700-PC
DRAIN	ZURN Z8746-PC
INSULATION KIT	DEARBORN ADA100
MIXING VALVE	MV-1

SK-1 DOUBLE COMPARTMENT STAINLESS STEEL SINK:

33" X 22" X 8-1/8" DEEP (BOWL IS 13-1/2X16X7-3/4), TYPE 304, 18 GAUGE, 8" CENTERS, SELF RIMMING SINGLE COMPARTMENT, (18-8) NICKEL BEARING STAINLESS STEEL, BACK LEDGE SINK WITH SATIN FINISH AND SOUND DEADENING MATERIALS ON SIDE AND AND BOTTOM OF SINK. PROVIDE POLISHED CHROME PLATED TOP MOUNT SWING GOOSENECK SPOUT WITH STRAIGHT LEVER HANDLES, WATER SAVING AERATOR, HOSE AND SPRAY, STRAINER WITH REMOVABLE CRUMB CUP AND STOPPER, 1-1/2 TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. COORDINATE WITH CABINET SHOP DRAWINGS, BASE CABINET MUST BE A TRUE MINIMUM 24" DEEP BACK TO FRONT IN ORDER FOR SINK TO DROP INTO COUNTERTOP OPENING. SINK DRILLINGS SHALL ACCOMMODATE FITTING INSTALLATION ONLY, NO OTHER CAPPED OPENINGS WILL BE ALLOWED. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80F & 120F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP. MEETS ASSE 1070 STANDARDS.

SINK	ELKAY L2-3222
FAUCET	ZURN Z-871 C1-HS
STRAINER	ELKAY LK-35
WASTE	ELKAY LK-353
SUPPLIES	ZURN Z-8802-LK
P-TRAP	ZURN Z-8702-PC
MIXING VALVE	WATTS LFUSG-B

SK-2 SCULLERY SINK:

STAINLESS STEEL 39" X 25-13/16" X 43-3/4" (BOWLS ARE 16" X 20" X 14") 16 GAUGE, TWO COMPARTMENT SINK WITH STAINLESS STEEL LEGS, #4 FINISH, CENTER DRAIN. PROVIDE POLISHED CHROME PLATED TOP MOUNT SWING GOOSENECK SPOUT WITH STRAIGHT LEVER HANDLES, WATER SAVING AERATOR, HOSE AND SPRAY, STRAINER WITH REMOVABLE CRUMB CUP AND STOPPER, 1-1/2 TAILPIECE, CHROME PLATED 17 GAUGE CAST BRASS P-TRAP WITH CLEANOUT AND TUBE WASTE TO WALL. CHROME PLATED LOOSE KEY ANGLE STOP TO WALL WITH 3/8" CHROME PLATED FLEXIBLE HOT AND COLD WATER SUPPLIES. UNDER SINK MIXING VALVE WITH THREADED CONNECTION, BRONZE BODY, LIMITS HOT WATER BETWEEN 80F & 120F AND SET AT 95 DEGREE F, DOUBLE THROTTLING, INTEGRAL INLET FILTER WASHERS & CHECK VALVES, TAMPER RESISTANT LOCKING CAP.

SINK	ELKAY 14-2C16X20-0X
FAUCET	ZURN Z-871 C1-HS
STRAINER	ELKAY LK-35
WASTE	ELKAY LK-353
SUPPLIES	ZURN Z-8802-LK
P-TRAP	ZURN Z-8702-PC
MIXING VALVE	WATTS LFUSG-B
EYEWASH	GUARDIAN G1898LH-L

SH-1 SHOWER (STANDARD):

SINGLE HANDLE PRESSURE-BALANCING MIXING VALVE. CERAMIC CONTROL CARTRIDGE WITH STAINLESS STEEL BALANCING PISTON. MUST HOLD SHOWER TEMPERATURE STEADY WITH PRESSURE FLUCTUATIONS UP TO 85%. PACKING WITH BRASS ADJUSTABLE LIMIT STOP SCREW TO PROHIBIT VALVE HANDLE FROM BEING TURNED TO EXCESSIVE HOT DISCHARGE TEMPERATURES. ALL TRIM TO BE COPPER NICKEL CHROME PLATED. SERVICE STOPS TO BE BRASS AND CAST INTEGRAL WITH VALVE BODY. BRASS SHOWER HEAD WITH ARM AND FLANGE. SHOWER ENCLOSURE SHALL BE OF A SANITARY GRADE APPLIED ACRYLIC. UNIT SHALL HAVE OUTSIDE DIMENSIONS OF 42"X34-3/4"X73". UNIT SHALL MEET IAPMO Z124-2011 AND CSA B45.5-11.

SHOWER	ZURN Z-7301-SS-MT
DRAIN	ZURN ZN-415 2" WITH 5" B
SHOWER STALL	AQUARIUS G4294SHC-WHT

SH-2 SHOWER (HANDICAP):

SINGLE HANDLE PRESSURE-BALANCING MIXING VALVE. CERAMIC CONTROL CARTRIDGE WITH STAINLESS STEEL BALANCING PISTON. MUST HOLD SHOWER TEMPERATURE STEADY WITH PRESSURE FLUCTUATIONS UP TO 85%. PACKING WITH BRASS ADJUSTABLE LIMIT STOP SCREW TO PROHIBIT VALVE HANDLE FROM BEING TURNED TO EXCESSIVE HOT DISCHARGE TEMPERATURES. ALL TRIM TO BE COPPER NICKEL CHROME PLATED. SERVICE STOPS TO BE BRASS AND CAST INTEGRAL WITH VALVE BODY. TWO WAY CHROME DIVERTER VALVE. BRASS SHOWER HEAD WITH ARM AND FLANGE. WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTING. SHOWER ENCLOSURE SHALL BE OF A SANITARY GRADE APPLIED ACRYLIC. UNIT SHALL HAVE OUTSIDE DIMENSIONS OF 42"X37-1/2"X82". UNIT COMPLIES WITH ADA, ICC/ANSI A117.1, AND ANSI Z124.1.2.

SHOWER	ZURN Z-7301-SS-MT-DV-2P-HW
DRAIN	ZURN ZN-415 2" WITH 5" B
SHOWER STALL	AQUARIUS G3682BF RRF-ANSI R-WHT

MV-1 WATER MIXING VALVE (THERMOSTATIC MIXING):

UNDER SINK MIXING VALVE, BRONZE BODY, 0.25 GPM ACTIVATION, LIMITS HOT WATER BETWEEN 80F & 120F, DOUBLE THROTTLING, DUAL CHECK VALVES, INTEGRAL STRAINER WITH 40 MESH SCREEN, TAMPER RESISTANT LOCKING NUT. MEETS ASSE 1070 STANDARDS.

EXPOSED MIXING VALVE	WATTS LFUSG-B

EWH-1 ELECTRIC WATER HEATER:

WATER HEATER SHALL BE GOLD SERIES COMMERCIAL ELECTRIC MODEL NO. DRE-52 AS MANUFACTURED BY A. O. SMITH. HEATER SHALL BE RATED AT 12.3KW, SIMULTANEOUS OPERATION, 208V/1PHASE, 60 CYCLE AC, AND LISTED BY UNDERWRITERS' LABORATORIES AND APPROVED TO THE NSF STANDARD 5 BY UL. TANK SHALL BE 50 GALLON CAPACITY. HEATER SHALL HAVE 150 PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE. ELECTRICAL JUNCTION BOX WITH HEAVY DUTY TERMINAL BLOCK SHALL BE PROVIDED. HEATER TANK SHALL HAVE A THREE YEAR LIMITED WARRANTY AS OUTLINED IN THE WRITTEN WARRANTY. MANUFACTURER SHALL SUPPLY ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. MEETS STANDBY LOSS REQUIREMENTS OF THE U.S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1.

WATER HEATER	A. O. SMITH DRE-52
VACUUM RELIEF	WATTS 36A
EXPANSION TANK	AMTROL "THERM-X-TROL"

EWH-2 ELECTRIC WATER HEATER:

WATER HEATER SHALL BE GOLD SERIES COMMERCIAL ELECTRIC MODEL NO. DRE-52 AS MANUFACTURED BY A. O. SMITH. HEATER SHALL BE RATED AT 24KW, SIMULTANEOUS OPERATION, 208V/1PHASE, 60 CYCLE AC, AND LISTED BY UNDERWRITERS' LABORATORIES AND APPROVED TO THE NSF STANDARD 5 BY UL. TANK SHALL BE 50 GALLON CAPACITY. HEATER SHALL HAVE 150 PSI WORKING PRESSURE AND BE EQUIPPED WITH EXTRUDED HIGH DENSITY ANODE. ELECTRICAL JUNCTION BOX WITH HEAVY DUTY TERMINAL BLOCK SHALL BE PROVIDED. HEATER TANK SHALL HAVE A THREE YEAR LIMITED WARRANTY AS OUTLINED IN THE WRITTEN WARRANTY. MANUFACTURER SHALL SUPPLY ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE. MEETS STANDBY LOSS REQUIREMENTS OF THE U.S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IES 90.1.

WATER HEATER	A. O. SMITH DRE-52
VACUUM RELIEF	WATTS 36A
EXPANSION TANK	AMTROL "THERM-X-TROL"

CP-1 CIRCULATOR PUMP (INLINE TYPE):

INFINITELY VARIABLE CIRCULATOR MADE OF COMPOSITE CASING, HOUSING, IMPELLER, CERAMIC SHAFT, AND CARBON BEARINGS. A 44 WATT EC, PERMANENT MAGNET MOTOR AND ELECTRICAL CHARACTERISTICS ARE 120V/1 PHASE, 60 HZ., WITH 1" CONNECTIONS, MAXIMUM OPERATING PRESSURE OF 150 PSI, UL STANDARD 778 AND NSF CERTIFIED. DIGITAL TIMER WITH CIRCULATOR PROGRAMMING, TEMPERATURE AQUASTAT, MAINTAINS WATER TEMPERATURE BETWEEN 95F AND 115F. CIRCUIT SETTER CALIBRATED BALANCE VALVE, LEAD-FREE BRASS, WITH 1/4" NPT TAPPED DRAIN PORT, MEMORY STOP FEATURE, SET AT 1 GPM. PROVIDE CIRCUIT SOLVER A SELF-ACTING THERMOSTATIC RECIRCULATIONVALVE SET AT 110F.

CIRCULATOR	TACO 006E3
TIMER	TACO 265-3
AQUASTAT	TACO 563-2
CIRCUIT SETTER	XYLEM CB-1/2S LF
RECIRCULATION VALVE (TCV)	CIRCUIT SOLVER CS-1/2-110

UB-1 ICE MAKER HOOK-UP (REFRIGERATION SPACE):

RECESSED METAL WALL BOX CONSTRUCTED AND SUITABLE FOR FIRE RATED PARTITIONS, COMPLETE WITH FACTORY INSTALLED SHANK VALVE WITH 1/4" O.D. COPPER OUTLET TESTED @ 100 P.S.I. PROVIDE APPROXIMATELY 5'-0" OF 1/4" O.D. SOFT COPPER TUBING WITH COMPRESSION FITTING IN TIGHT COIL. ANCHOR BOX TO WALL STRUCTURE. VERIFY LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS OR MOUNT TO MANUFACTURERS RECOMMENDATIONS.

WALL BOX	GUY GRAY BIM 875

UB-2 RECESSED UTILITY BOX (CLOTHES WASHER SPACE):

FACTORY FABRICATED 16 GAUGE STEEL WITH EPOXY FINISH WASHING MACHINE WALL BOX WITH HOT AND COLD WATER SUPPLY AND 2" DRAIN. VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

WALL BOX	GUY GRAY B200

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No.	Description	Date

PLUMBING SPECIFICATIONS

Date	12/19/2025
Drawn By	JDD
Checked By	SLD

P002

PLUMBING FIXTURE SPECIFICATIONS

FD FLOOR DRAIN:

DURA-COATED CAST IRON BODY, BOTTOM OUTLET AND TRAP PRIMER CONNECTION. TYPE B POLISHED NICKEL BRONZE STRAINER, MEMBRANE CLAMP & ADJUSTABLE COLLAR WITH SLOTS.

FLOOR DRAIN	ZURN Z-415B-P

TP TRAP PRIMER:

PROVIDE BRASS TRAP PRIMERS AND DISTRIBUTION UNITS TO SEAL FLOOR DRAINS INDICATED ON DRAWINGS. TRAP PRIMER VALVES SHALL BE AUTOMATIC, SELF-CONTAINED TYPE WITH NO SPRINGS OR DIAPHRAGMS AND SHALL NOT REQUIRE ADJUSTMENT. INLET AND OUTLET SIZE IS 1/2". TRAP PRIMER VALVES SHALL BE THE TYPE THAT CAN BE INSTALLED ANYWHERE ON COLD WATER PIPING SIZE 1-1/2" OR LESS. DISTRIBUTION UNITS SHALL SUPPLY 1-4 FLOOR DRAINS. TRAP PRIMER VALVES SHALL COMPLY WITH ASSE 1018. PRECISION PLUMBING PRODUCTS (PPP).

TRAP PRIMER	PPP PR-500
DISTRIBUTION UNIT	PPP DU-U

TD-1 TROUGH DRAIN:

12"H X 18"W X 4'L, 45 GALLON CAPACITY, MADE OF 3/8" ABS PLASTIC, SHALL BE SLOPED BETWEEN 1/8" & 1/4" PER FOOT, WASHER CAN DRAIN INTO SIDE OR TOP, AND THE OUTLET DRAIN CAN BE LOCATED AT EITHER END OR ON BOTTOM. REMOVABLE LINT FILTER SCREEN MADE OF 1/8" PVC WITH 3/8" HOLES ON 3/4" SPACING, & ARE DESIGNED WITH A SAFETY OVERFLOW. END OF DRAIN PIPE SHOULD BE 1" BELOW TOP OF TRENCH.

TROUGH DRAIN	HIGH MARK DRAIN TROUGH

WH RECESSED WALL HYDRANT:

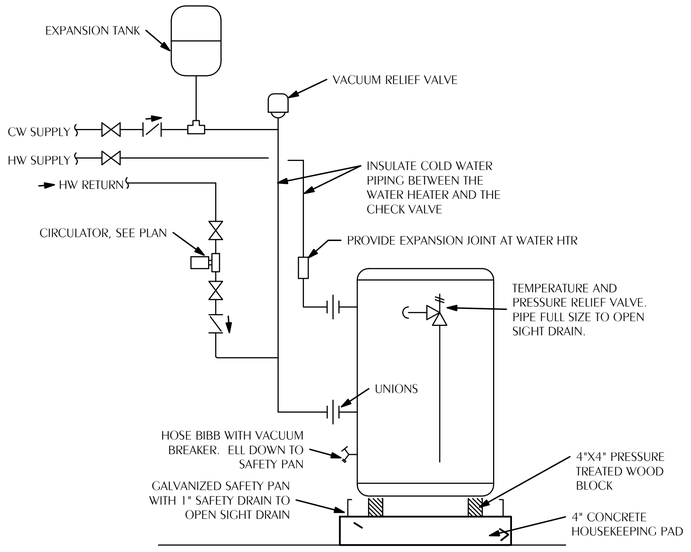
ANTI-SIPHON VACUUM BREAKER, FLUSH MOUNTING WALL BOX, 3/4 INCH, MALE HOSE THREAD, BRASS CASTING WITH CHROME FINISH POLYCARBONATE WHEEL HANDLE, LOOSE KEY FAUCET OPERATOR.

WALL FAUCET	WOODFORD MODEL B24

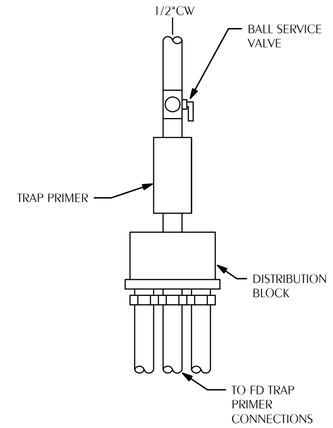
EW-1 EYE WASH (MOUNTED TO SINK):

ALL STAINLESS STEEL CONSTRUCTION, CORROSION RESISTANT SWING-DOWN EYEWASH LESS BOWL WITH 1/2" IPS PLUG-TYPE VALVE WITH PTFE COATED O-RING SEALS AND STAINLESS STEEL ENCLOSURE. SUPPLIED WITH IN-LINE STRAINER TO PROTECT VALVE AND SPRAY HEADS FROM DEBRIS IN WATER LINE. UNIT SHALL HAVE 2 POLYPROPYLENE SPRAY HEADS WITH INTEGRAL "FLIP-TOP" DUST COVERS, FILTERS AND 1.6 GPM FLOW CONTROL ORIFICES MOUNTED ON A STAINLESS STEEL HEAD ASSEMBLY. UNIT SHALL INCLUDE ANSI-COMPLIANT SIGN. UNIT SHALL BE FULL FACTORY ASSEMBLED AND HYDROSTATICALLY TESTED TO MEET OR EXCEED ANSI Z358.1 - 2014, AND COME WITH A FULL 2 YEAR WARRANTY.

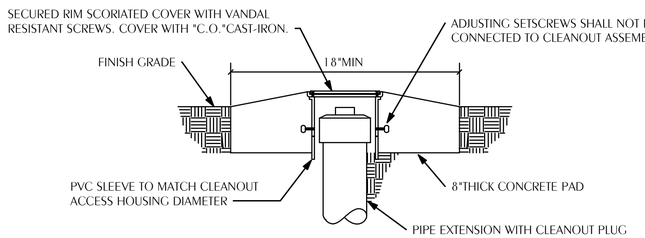
EYEWASH	GUARDIAN G1898LH-L
MIXING VALVE	GUARDIAN G6020



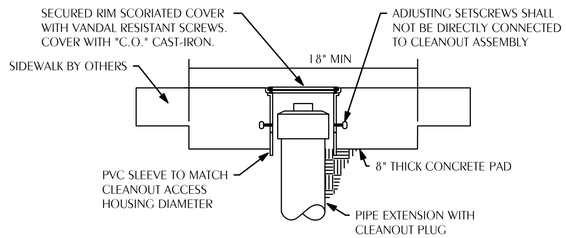
1 P003 **FLOOR MOUNTED ELECTRIC WATER HEATER**
SCALE: NONE



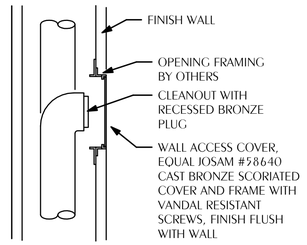
2 P003 **TRAP PRIMER DETAIL**
SCALE: NONE



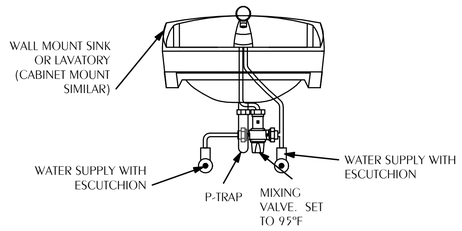
3 P003 **CLEANOUT TO GRADE**
SCALE: NONE



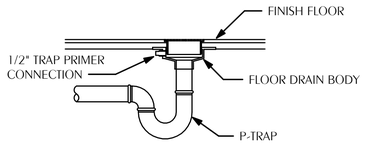
4 P003 **CLEAN OUT TO SIDEWALK**
SCALE: NONE



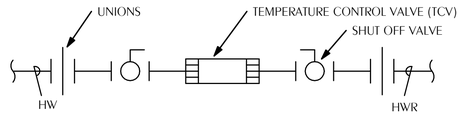
5 P003 **CLEANOUT TO WALL**
SCALE: NONE



6 P003 **UNDER SINK MIXING VALVE DETAIL**
SCALE: NONE



7 P003 **FLOOR DRAIN WITH TRAP PRIMER**
SCALE: NONE



8 P003 **TEMPERATURE CONTROL VALVE DETAIL**
SCALE: NONE

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Project Number: 2025-069

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FIRE STATION 3
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SEAL

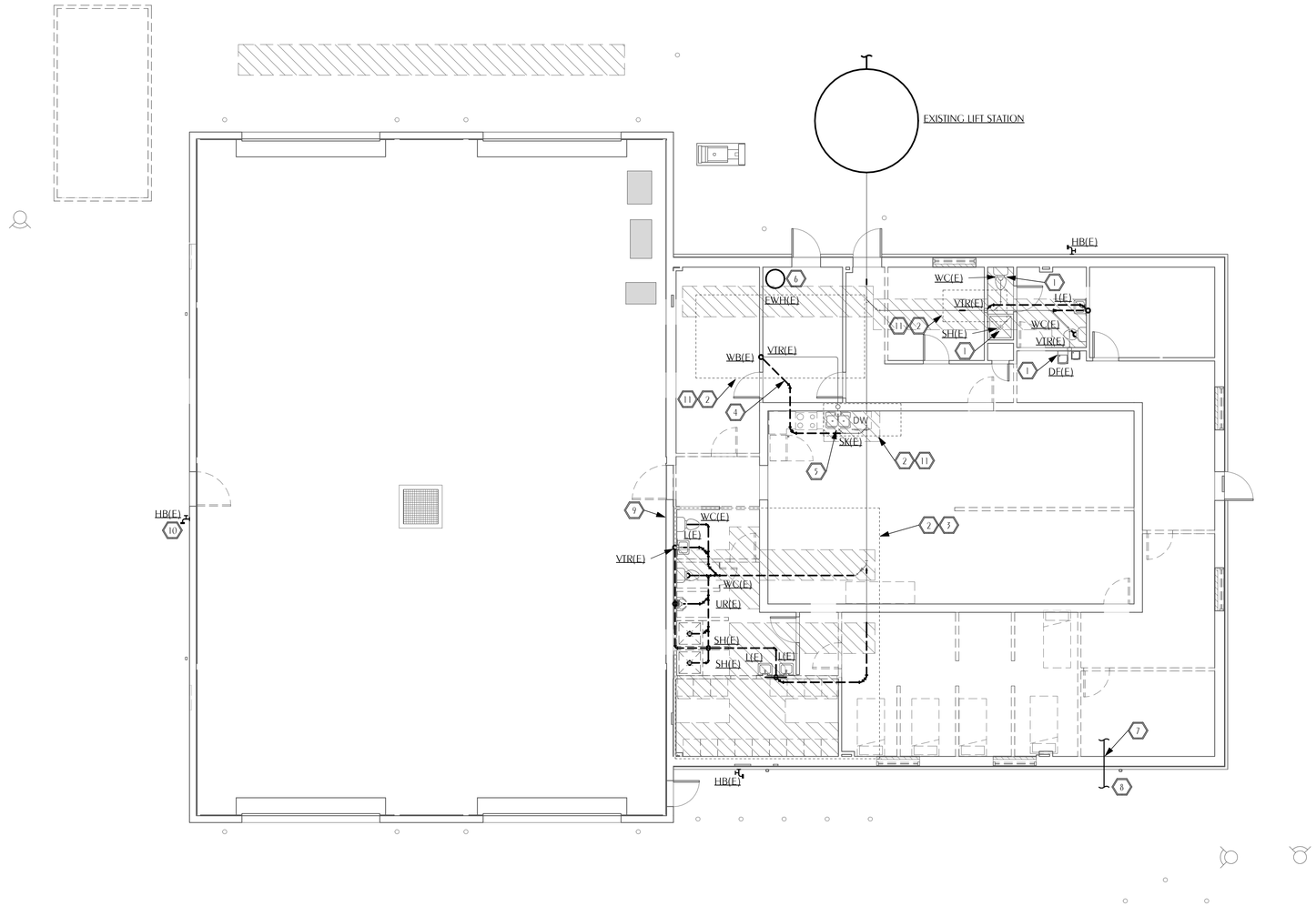
REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

PLUMBING SPECIFICATIONS & DETAILS

Date	12/19/2025
Drawn By	JDD
Checked By	SLD

P003



1 PLUMBING DEMOLITION PLAN
P101 SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

SHEET NOTES

1. EXISTING PLUMBING FIXTURE TO REMAIN AND BE REUSED. CONTRACTOR SHALL THOROUGHLY CLEAN FIXTURE AND VERIFY PROPER OPERATION. NOTIFY ARCHITECT OF ANY FIXTURE IN NEED OF REPAIR.
2. SAW-CUT CONCRETE SLAB AS NECESSARY AND REMOVE ALL UNDERGROUND WASTE AND SOIL PIPING BACK TO POINTS INDICATED. REMOVE FLOOR DRAINS AND TRAP PRIMER PIPING.
3. REMOVE REST ROOM PLUMBING FIXTURES (TANK-TYPE WATER CLOSETS, URINALS, SHOWER FITTINGS, AND WALL-MOUNTED LAVATORIES). REMOVE ALL ASSOCIATED ABOVE-GROUND WASTE, VENT, AND HOT AND COLD WATER SUPPLY PIPING.
4. ABANDON UNDERGROUND WASTE PIPING IN PLACE. REMOVE ABOVE-SLAB PIPING TO BELOW SLAB AND CAP. COORDINATE FLOOR REPAIR WITH THE ARCHITECTURAL DRAWINGS AND WITH THE GENERAL CONTRACTOR IN THE FIELD.
5. REMOVE COUNTER-MOUNTED DOUBLE-COMPARTMENT KITCHEN SINK ALONG WITH FAUCET AND P-TRAP. LEAVE WASTE AND VENT PIPING IN PLACE FOR INSTALLATION OF NEW DOUBLE-COMPARTMENT NEAR THIS LOCATION. SEE NEW WORK DRAWINGS.
6. REMOVE 50 GALLON, 4.5 KW ELECTRIC WATER HEATER ALONG WITH ALL ASSOCIATED SUPPORTS, PIPING, VALVES, AND ACCESSORIES.
7. REMOVE ALL ABOVE-GROUND HOT AND COLD DOMESTIC WATER PIPING BACK TO BUILDING ENTRANCE. REMOVE ALL PIPE HANGERS, FITTINGS, VALVES, AND ACCESSORIES.
8. REMOVE WATER PIPING BACK TO MAIN AT STREET. REMOVE BACKFLOW PREVENTER. COORDINATE WITH THE CITY CONNECTION OF NEW LARGER WATER SERVICE AND BACKFLOW PREVENTER. SEE NEW WORK DRAWINGS.
9. REMOVE ABOVE-SLAB COLD WATER PIPING TO POINT OF SLAB PENETRATION FOR UNDER-SLAB SERVICE FOR HOSE BIBBS AROUND TRUCK BAY. PREPARE PIPE FOR CONNECTION OF NEW WATER SUPPLY. SEE NEW WORK DRAWINGS.
10. REMOVE HOSE BIBB AND COLD WATER PIPING TO BELOW SLAB AND CAP.
11. SAW-CUT EXISTING CONCRETE SLAB AS NECESSARY FOR THE INSTALLATION OF NEW UNDERGROUND WASTE AND SOIL PIPING. SEE NEW WORK DRAWINGS.

NOTE:
EXISTING PIPING SYSTEMS AND EQUIPMENT SHOWN ARE BASED ON AVAILABLE CONSTRUCTION DOCUMENTS AND NON-DESTRUCTIVE SITE INVESTIGATION. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY LOCATION, SIZE, AND DIRECTION OF FLOW FOR ALL PIPING TO BE REMOVED.

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PLUMBING DEMOLITION FLOOR PLAN

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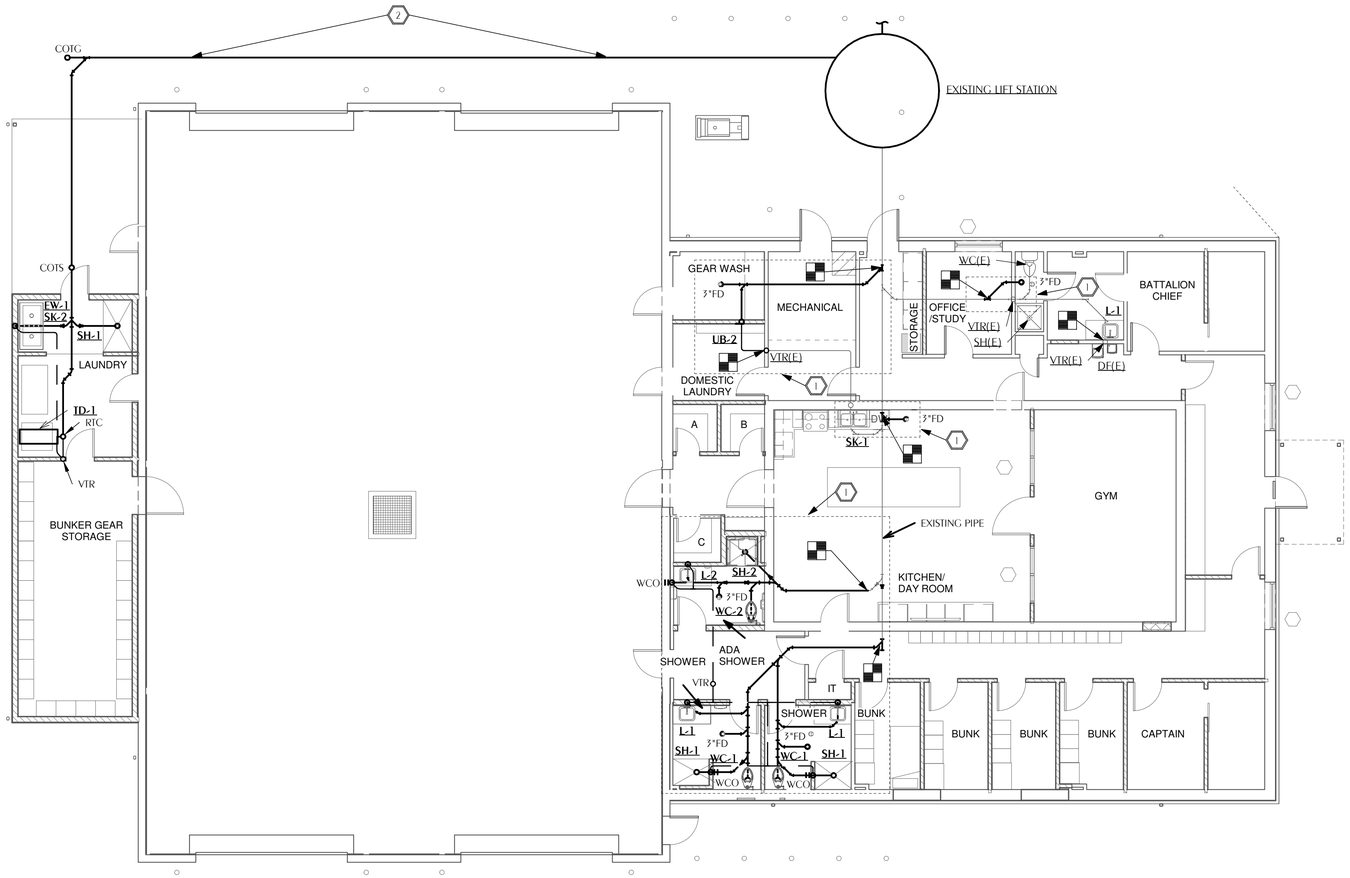
Drawn By	JDD
Checked By	SLD

P101

SHEET NOTES

1. COORDINATE REPAIR OF CONCRETE SLAB WITH THE GENERAL CONTRACTOR IN THE FIELD.
2. BORE AND JACK NEW WASTE PIPING UNDER EXISTING CONCRETE DRIVE. CONNECT TO EXISTING LIFT STATION.



NOTE:
SEE RISER DIAGRAM ON SHEET P301 FOR PIPE SIZES.

N PROJECT NORTH / N TRUE NORTH

1 P201 **PLUMBING NEW WORK FLOOR PLAN SANITARY**

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

REFERENCE:
FINISHED FLOOR ELEVATION = 0'-0"

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No.	Description	Date

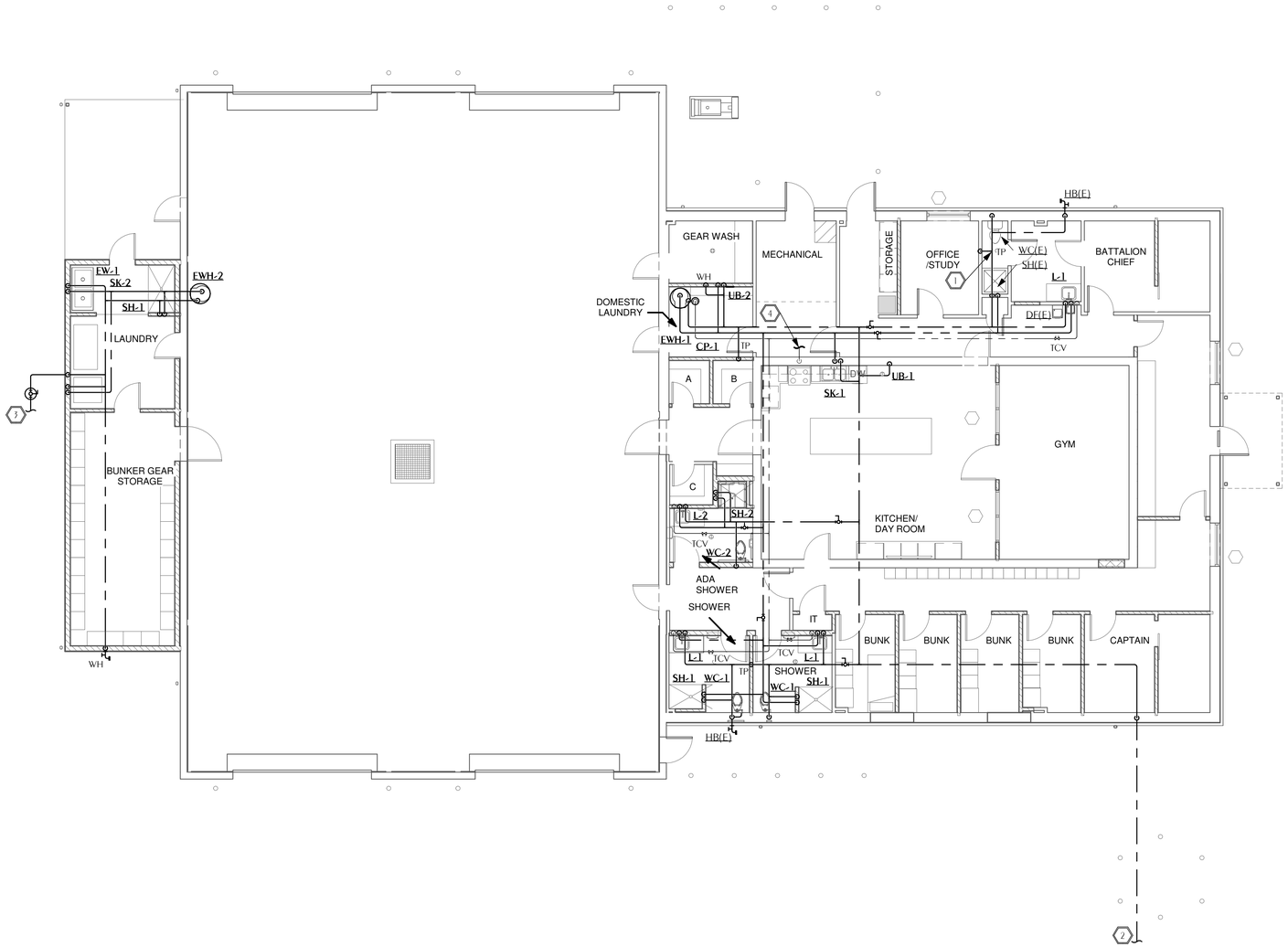
PLUMBING NEW WORK FLOOR PLAN SANITARY

Date	12/19/2025
Drawn By	JDD
Checked By	SLD

P201

SHEET NOTES

1. CONNECT TO EXISTING HOT AND COLD WATER PIPING SUPPLY TO EXISTING FIXTURES NEAR THIS LOCATION. CONTRACTOR TO DETERMINE EXACT LOCATION AND PIPE SIZE IN FIELD.
2. NEW 2" UNDERGROUND WATER SERVICE BACK TO MAIN. PROVIDE NEW BACKFLOW PREVENTER.
3. NEW 1-1/4" UNDERGROUND WATER SERVICE BACK TO MAIN. PROVIDE NEW BACKFLOW PREVENTER.
4. GAS SERVING NEW RANGE. CONNECT TO NEAREST ADEQUATELY SIZED EXISTING PIPE.



NOTE:
SEE RISER DIAGRAM ON SHEET P301 FOR PIPE SIZES.

1 PLUMBING NEW WORK FLOOR PLAN DOMESTIC
P202 SCALE: 1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

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No.	Description	Date

PLUMBING NEW WORK FLOOR PLAN DOMESTIC

Date	12/19/2025
Drawn By	JDD
Checked By	SLD

P202

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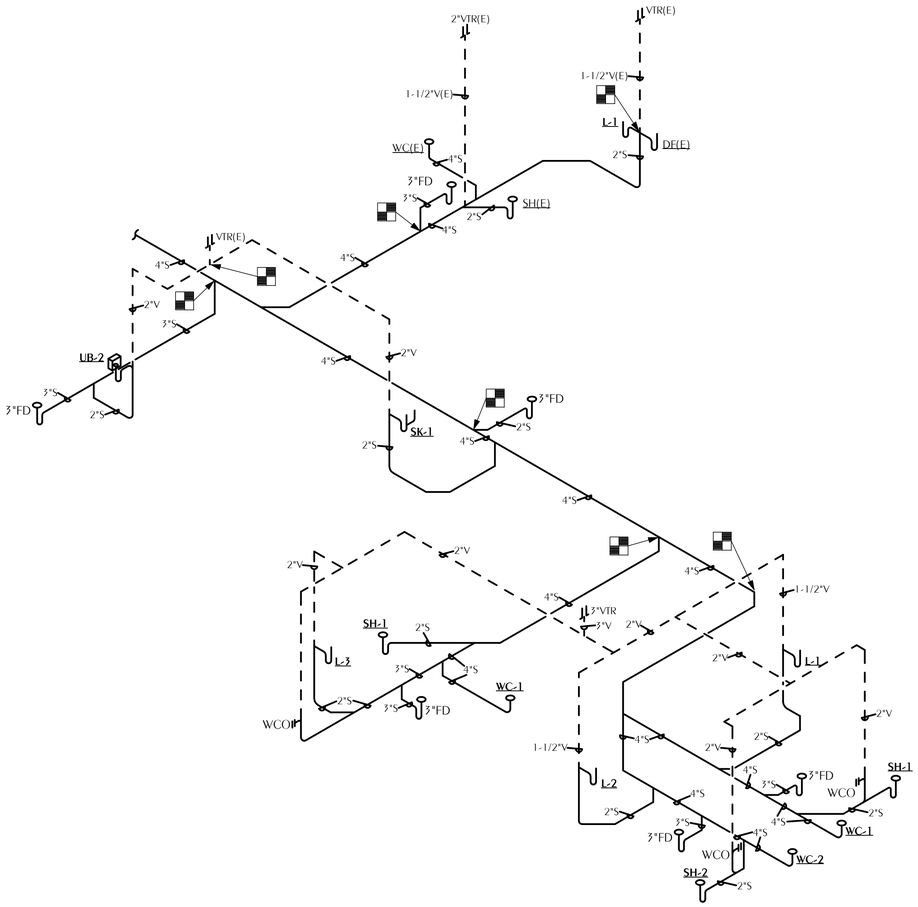
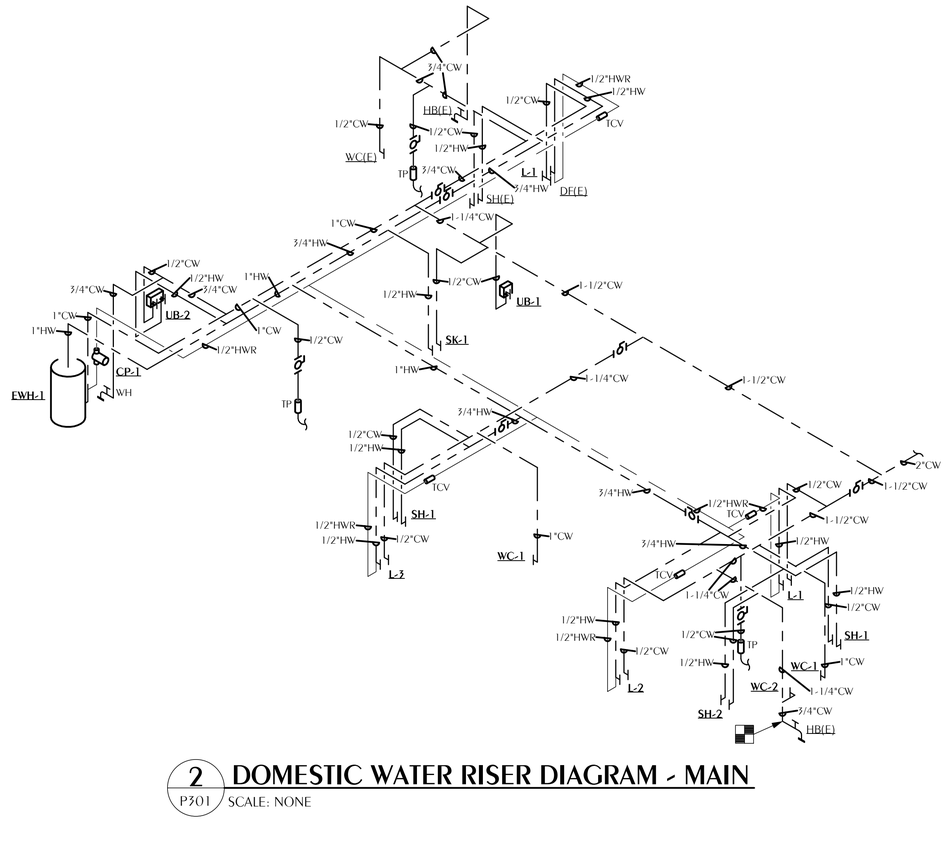
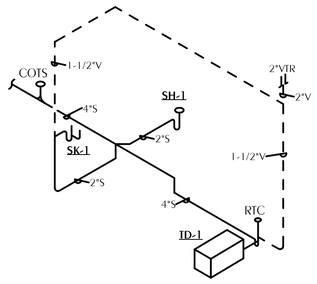


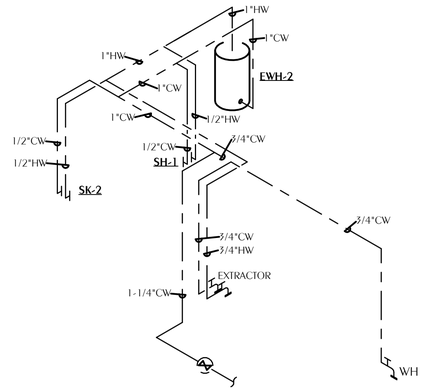
1 SANITARY RISER DIAGRAM - MAIN
P301 SCALE: NONE



2 DOMESTIC WATER RISER DIAGRAM - MAIN
P301 SCALE: NONE



3 SANITARY RISER DIAGRAM - ADDITION
P301 SCALE: NONE



4 DOMESTIC WATER RISER DIAGRAM - ADDITION
P301 SCALE: NONE

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No.	Description	Date

PLUMBING RISER DIAGRAMS

Date	12/19/2025
Drawn By	JDD
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P301

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GENERAL NOTES

1. IT IS NOTED THAT SOME AREAS WILL BE REQUIRED TO BE PROTECTED AS ORDINARY HAZARD (MECHANICAL ROOMS, ETC.) THESE AREAS HAVE BEEN IDENTIFIED BY A DIFFERENT HATCHING PATTERN THAN THE LIGHT HAZARD AREAS ON THE PLANS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILTY TO OBTAIN CURRENT WATER FLOW DATA AND DESIGN SPRINKLER SYSTEMS ACCORDINGLY.
3. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE RATED ASSEMBLIES AND ACOUSTICAL ASSEMBLIES.
4. CONTRACTOR SHALL COORDINATE SYSTEM DESIGN WITH ALL OTHER TRADES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING INSPECTOR'S TEST LOCATIONS IN ACCORDANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
6. ALL PIPING SHALL OBSERVE PROPER PITCH. PROVIDE DRAINS FOR LOW POINTS.
7. THE SPRINKLER SYSTEM SHALL BE ARRANGED FOR FLUSHING. READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSSMAINS.
8. PIPE HANGERS SHALL BE INSTALLED AS REQUIRED BY NFPA 13 FOR SUPPORTING SPRINKLER PIPING. NO OTHER PIPING OR DEVICES SHALL BE ATTACHED TO THE SPRINKLER HANGER SYSTEM UNLESS THE HANGER HAS BEEN DESIGNED TO CARRY THE ADDITIONAL LOAD.
9. THIS CONTRACT DOES NOT INCLUDE ANY MATERIAL OR DEVICE TO IMPROVE THE STRUCTURAL STRENGTH OF THE BUILDING TO ENABLE IT TO CARRY THE LOAD OF THE FIRE PROTECTION SYSTEM.
10. TRENCHING SHALL BE PERFORMED BY HAND WHERE THERE IS THE POSSIBILITY OF ENCOUNTERING OBSTACLES OR EXISTING UTILITY LINES. WHERE CLEAR AND UNOBSTRUCTED AREAS ARE TO BE EXCAVATED, APPROPRIATE MACHINE EXCAVATION METHODS MAY BE EMPLOYED. PROVIDE PROPER BACKFILL AS REQUIRED PER SPECIFICATIONS.
11. ALL ABOVE GROUND WET SPRINKLER PIPE THAT IS THREADED SHALL BE SCHEDULE 40 BLACK WITH BLACK CAST/MALEABLE IRON FITTINGS WITH JOINTS PER NFPA 13. TEFLON TAPE SHALL BE ADDED TO ALL MALE THREADS OF PIPE AS A JOINING COMPOUND. CPVC PIPING IS NOT ACCEPTABLE.
12. ALL ABOVE GROUND WET SYSTEM SPRINKLER PIPE THAT IS WELDED OR ROLL-GROOVED SHALL BE SCHEDULE 10 BLACK WITH BLACK CAST/MALEBLE IRON FITTINGS WITH JOINTS PER NFPA 13. CPVC PIPING IS NOT ACCEPTABLE.
13. INSTALL SPRINKLER HEADS CENTER OF TILE IN ACOUSTICAL CEILINGS. HEAD LOCATIONS SHALL BE GUIDED BY ARCHITECTURAL ELEMENTS FOR OTHER CEILING TYPES.
14. DO NOT LOCATE INSPECTORS TEST LOCATIONS OR DRAINS IN FINISHED SPACES. INDICATE ALL LOCATIONS ON SHOP DRAWINGS.

WATER BASED SPRINKLER SYSTEM REQUIREMENTS

1. THIS PROJECT IS A MODIFICATION OF AN EXISTING FIRE SPRINKLER SYSTEM. NO CHANGE IN POINT OF SERVICE OF WATER SUPPLY WILL OCCUR.
2. THE TERMINAL ADDITION SHALL BE FULLY SPRINKLED IN ACCORDANCE WITH THE MOST RECENT EDITION OF NFPA 13 AND LOCAL CODES.
3. THERE IS NO CHANGE TO HAZARD CLASSIFICATION.
4. THE MODIFICATION TO EXISTING SHALL SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13.

   LIGHT HAZARD: 0.10 GPM/SF, MAX 225 SF PER HEAD, 15 FT MAX NOMINAL SPACING; ORDINARY TEMPERATURE RATING HEADS.
   ORDINARY HAZARD GROUP 1: 0.15 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING; INTERMEDIATE TEMPERATURE RATING HEADS.
   ORDINARY HAZARD GROUP 2: 0.20 GPM/SF, MAX 130 SF PER HEAD, 15 FT MAX NOMINAL SPACING; INTERMEDIATE TEMPERATURE RATING HEADS.
5. THE POINT OF SERVICE CONNECTION IS EXISTING, AND WILL NOT BE MODIFIED WITH THIS PROJECT.
6. NO NEW FLOW TEST IS REQUIRED FOR THIS MODIFICATION TO EXISTING SYSTEM.
7. THE EXISTING RISER WILL NOT BE MODIFIED WITH THIS PROJECT.
8. MICROBIAL INDUCED CORROSION IS NOT ANTICIPATED IN THIS PROJECT.
9. BACKFLOW PREVENTER IS EXISTING AND WILL NOT BE MODIFIED WITH THIS PROJECT.
10. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL FIRE PROTECTION COMPONENTS.
11. NO FIRE PUMP IS REQUIRED.
12. NO ON SITE FIREWATER STORAGE TANK IS REQUIRED.

LEGEND

———	FW	FIRE WATER SUPPLY
—— W ——	PW	POTABLE WATER SUPPLY
◉		CEILING MOUNTED PENDANT HEAD
◎		UPRIGHT HEAD
▽		SIDEWALL HEAD
▽F		FREEZE PROOF SIDEWALL HEAD (EXTENDED COVERAGE)

DESIGN CRITERIA

THIS EXISTING FACILITY SHALL BE PROTECTED BY A WET PIPE SPRINKLER SYSTEM. THE WET PIPE SYSTEM SHALL BE HYDRAULICALLY DESIGNED WITH NO INSIDE HOSE STREAM ALLOWANCE AND FIRE PROTECTION SPRINKLER DENSITY VALUES AS FOLLOWS:

LIGHT HAZARD = 0.10 GPM/SF WITH A MAXIUMUM OF 225 SF COVERAGE PER SPRINKLER

ORDINARY HAZARD GROUP 1 = 0.15 GPM/SF WITH A MAXIMUM OF 130 SF COVERAGE PER SPRINKLER

ORDINARY HAZARD GROUP II = 0.20 GPM/SF WITH A MAXIMUM OF 130 SF COVERAGE PER SPRINKLER

THE SPRINKLER DESIGN SHALL BE BASED ON THE MOST HYDRAULICALLY DEMANDING 1500 SF. THE CONTRACTOR IS ALLOWED TO REDUCE THE DESIGN AREA BASED ON THE USE OF QUICK RESPONSE SPRINKLERS AND CEILING HEIGHT IN ACCORDANCE WITH NFPA 13.

THE DESIGN OF THE SPRINKLER SYSTEM SHALL BE BASED UPON WATER SUPPLY INFORMATION OBTAINED BY THE SPRINKLER CONTRACTOR AND WITNESSED BY THE AUTHORITY HAVING JURISDICTION.

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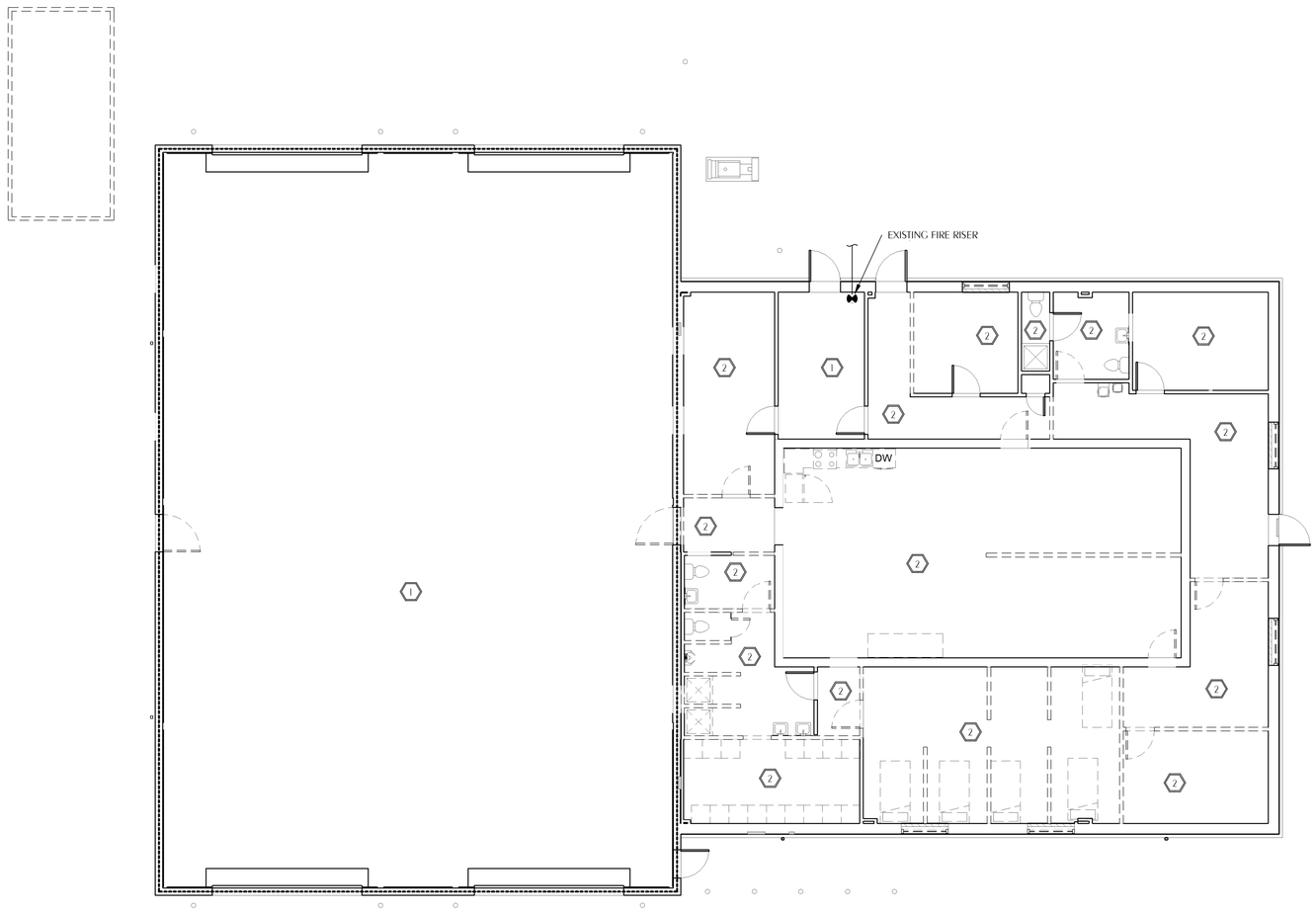
No.	Description	Date

LEGEND, SCHEDULES, NOTES, AND DETAILS

Date	12/19/2025
Drawn By	TLC
Checked By	SLD

FP001



SHEET NOTES

1. EXISTING UPRIGHT SPRINKLERS IN THIS AREA ARE TO REMAIN.
2. REMOVE EXISTING SPRINKLERS AND PIPING AS REQUIRED FOR NEW WORK.

PROJECT NORTH / TRUE NORTH

1 FP101 **FIRE PROTECTION DEMOLITION PLAN**

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

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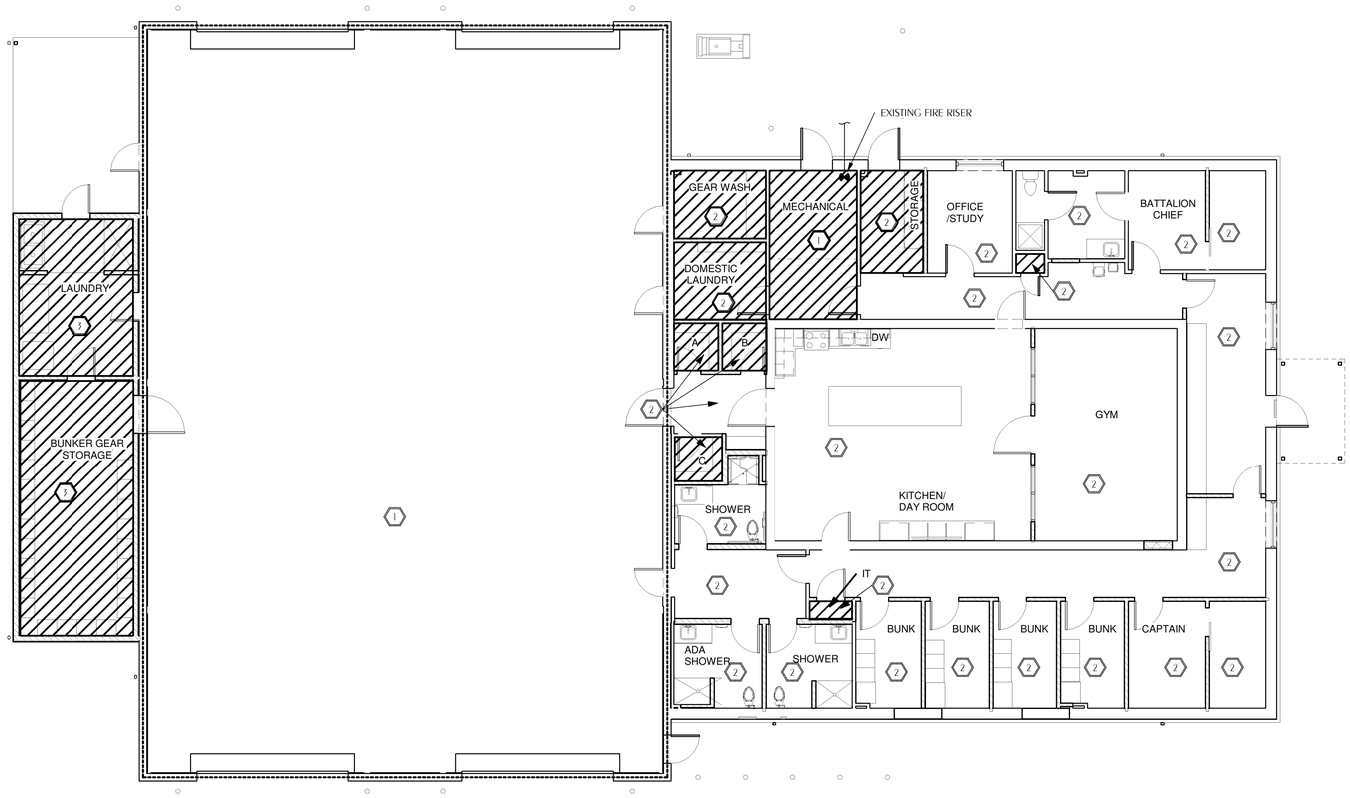

1 FIRE PROTECTION NEW WORK FLOOR PLAN

FP102 SCALE: 1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

HAZARD CLASSIFICATION

	LIGHT HAZARD
	ORDINARY HAZARD GROUP 1

SHEET NOTES

1. EXISTING UPRIGHT SPRINKLERS IN THIS AREA ARE TO REMAIN.
2. PROVIDE SPRINKLERS AS REQUIRED. CONNECT TO EXISTING PIPING IN THE AREA.
3. PROVIDE SPRINKLERS FOR NEW ADDITION. CONTRACTOR SHALL VERIFY IF EXISTING FIRE MAINS IN THIS AREA ARE ADEQUATE TO CONNECT NEW WORK TO OR ROUTE NEW MAIN TO FEED NEW ADDITION.

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FP102

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HVAC LEGEND

AHU-1 — EQUIPMENT TAG

1 / M3 — DETAIL TAG (*1* INDICATES IDENTIFICATION NUMBER; *M3* INDICATES THE SHEET NUMBER DRAWN ON)

1 — SHEET NOTE

SUPPLY DUCT SECTION POSITIVE PRESSURE

RETURN OR EXHAUST DUCT NEGATIVE PRESSURE

AxB — RECTANGULAR DUCT SIZE (*A* INDICATES SIDE SHOWN; *B* INDICATES SIDE NOT SHOWN)
INDICATES RISE IN ELEVATION OF DUCT.

EXTERNALLY INSULATED DUCTWORK

EXTERNALLY INSULATED ROUND FLEXIBLE DUCTWORK

DUCT ELBOW WITH TURNING VANES

RADIUSED DUCT ELBOW SHALL BE 1.5 TIMES THE TURNING DIMENSION

FLEXIBLE DUCT CONNECTION

MANUAL VOLUME BALANCING DAMPER

M — MOTORIZED DAMPER

FD — FIRE DAMPER WITH ACCESS DOORS

SD — SMOKE DAMPER WITH ACCESS DOORS

BD — BACKDRAFT DAMPER

TEE WITH TURNING VANES

TRANSITION

FLEX DUCT TAKE OFF WITH MVD SIZE EQUALS DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE

BRANCH DUCT TAKEOFF WITH MVD

INTERNALLY INSULATED DUCTWORK

SR-1 / 100 — AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM

(2)SR-1 / 100 — AIR DEVICE TAG. TOP LINE INDICATES TYPE OF DEVICE BOTTOM LINE INDICATES AIRFLOW IN CFM (2) INDICATES TYPICAL OF TWO DEVICES

TYP	TYPICAL
TEMP	TEMPERATURE
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
MA	MIXED AIR
OA	OUTDOOR AIR
TA	TRANSFER AIR
EF	EXHAUST FAN
CD	CEILING DIFFUSER
RG	RETURN GRILLE
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
CREF	CEILING ROOF EXHAUST FAN
AHU	INDOOR AIR HANDLING UNIT
HP	HEAT PUMP
OAU	OUTSIDE AIR UNIT
T1	THERMOSTAT, *1* INDICATES UNIT CONTROLLED
S	DUCT MOUNTED SMOKE DETECTOR
UC	UNDERCUT DOOR 3/4"
DG	DOOR GRILLE, REFER TO DOOR SCHEDULE
AFF	ABOVE FINISHED FLOOR
	FIRE DAMPER AT CEILING DIFFUSER OR GRILLE
XFR	TRANSFER AIR
ESP	EXTERNAL STATIC PRESSURE
DDC	DIRECT DIGITAL CONTROLS
TAB	TESTING, ADJUSTING, AND BALANCING
NOM	NOMINAL
VFD	VARIABLE FREQUENCY DRIVE
WM	DUCTLESS FCU - WALL MOUNTED UNIT

GENERAL NOTES

1. ALL DUCT DIMENSIONS ARE NET INSIDE.
2. VERIFY COLLAR SIZES ON ALL AIR TERMINALS, EQUIPMENT OUTLETS AND INLETS, TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE TRANSITIONS AT EQUIPMENT CONNECTIONS.
3. FIELD VERIFY CLEAR SPACE AVAILABLE, ROUTING PATH, AND CONFLICTS WITH STRUCTURE AND THE WORK OF OTHER TRADES PRIOR TO FABRICATING DUCTWORK. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED, WHETHER SPECIFICALLY INDICATED ON DRAWINGS OR NOT. SUBMIT SHOP DRAWINGS ON DUCTWORK LAYOUT PRIOR TO COMMENCING WORK. MAINTAIN CLEARANCE AROUND ALL LIGHT FIXTURES AS REQUIRED TO REMOVE AND SERVICE FIXTURES. COORDINATE WITH ROOF TRUSSES/STRUCTURE. PRESSURE TEST ALL DUCTWORK FOR LEAKS. SEE SPECIFICATIONS.
4. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, PIPING, AND DUCTWORK SUCH THAT MANUFACTURERS' RECOMMENDED CLEARANCES ARE MET FOR ALL ACCESS PANELS, MOTORS, FANS, BELTS, FILTERS AND AIR INTAKES. CONDENSATE LINES SHALL BE CLEAR OF FILTER RACK ACCESS.
5. PROVIDE DUCT FLEX CONNECTIONS & VIBRATION ISOLATION FOR ALL UNITS NOT INTERNALLY ISOLATED.
6. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10 FT. FROM ANY WASTE VENT STACKS, EXHAUST FANS, ETC.
7. ALL SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE GALVANIZED SHEET METAL.
8. ALL AHU FILTERS SHALL BE OF A READILY AVAILABLE SIZE, OF DISPOSABLE TYPE, AND BE ACCESSIBLE WITHOUT THE USE OF SCREWS OR OTHER MECHANICAL DEVICES REQUIRING TOOLS.
9. PROVIDE ACCESS PANELS IN HARD CEILINGS AS REQUIRED FOR MAINTENANCE AND ADJUSTMENT OF EQUIPMENT LOCATED ABOVE CEILING.
10. ALL BIRD AND INSECT SCREENS SHALL BE ANODIZED ALUMINUM.
11. BECAUSE OF THE SMALL SCALE OF CONTRACT DOCUMENTS IT IS NOT POSSIBLE TO SHOW ALL OFFSETS, TRANSITIONS, ETC. THE CONTRACT DOCUMENTS ARE ESSENTIALLY DIAGRAMATIC. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS COORDINATED WITH THE STRUCTURE AND ARCHITECTURAL WORK FOR REVIEW PRIOR TO COMMENCING WORK
12. ALL WORK SHALL COMPLY WITH 2023 FLORIDA BUILDING CODE.

SEQUENCE OF OPERATION

GENERAL: PROVIDE A PROGRAMMABLE THERMOSTAT WITH HUMIDITY CONTROL, OCCUPIED/UNOCCUPIED SETPOINTS, AND SCHEDULE FUNCTIONS.

TYPICAL AHU/HP:

OCCUPIED MODE: THE INDOOR FAN SHALL RUN CONTINUOUSLY. THE HP SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE. THE ELECTRIC HEAT SHALL BE AVAILABLE AS EMERGENCY HEAT AND AN ADDITIONAL STAGE OF HEAT WHEN THE OUTDOOR AIR TEMPERATURE FALLS BELOW 35°F. THE SETPOINT FOR COOLING SHALL BE 75° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 70° F ADJUSTABLE. THE AUTOMATIC OUTSIDE DAMPER SHALL REMAIN OPEN WHENEVER THE COMPRESSOR IS OPERATING.

UNOCCUPIED MODE: THE INDOOR FAN AND HP OR ELECTRIC HEAT SHALL CYCLE TO MAINTAIN SETPOINT TEMPERATURE. THE SETPOINT FOR COOLING SHALL BE 80° F ADJUSTABLE. THE SETPOINT FOR HEATING SHALL BE 60°F ADJUSTABLE.

OVERRIDE MODE: THE OVERRIDE MODE SHALL PLACE THE SYSTEM IN OCCUPIED MODE.

AIR DEVICE SCHEDULE

MARK	MAX AIRFLOW CFM	AIR DEVICE SIZE	DUCT CONNECTION SIZE	TITUS MODEL
CD-1 CFM	80	9x9	6Ø	TDC
CD-2 CFM	245	12x12	8Ø	TDC
CD-3 CFM	350	12x12	10Ø	TDC
SWG-1 CFM	60	6x6	6x6	272RL
RG,EG,SG,TG,RR,ER				
xx-1 CFM	450	12x12	12x12	350FL
xx-2 CFM	1705	22x22	22x22	350FL

NOTES:
1. MAX NC=20
2. PROVIDE 2x2 LAY IN PANEL FOR AIR DEVICES IN LAY IN CEILINGS.
3. PROVIDE BEVELED MOUNTING FRAME FOR CEILING DIFFUSERS IN HARD CEILINGS.
4. PROVIDE FLAT MOUNTING FRAME FOR GRILLES LOCATED IN HARD CEILINGS.
5. PAINT ALL DUCT VISIBLE THROUGH GRILLES FLAT BLACK.

GRAVITY VENTILATOR SCHEDULE

UNIT	THROAT SIZE	BASIS OF DESIGN	MODEL	NOTES
GV-1	0.37	GREENHECK	GRSI 10	1,2,3
GV-2	0.37	GREENHECK	GRSI 8	1,2,3

1. PROVIDE ROOF CURB.
2. PROVIDE ALUMINUM BIRDSCREEN.
3. PROVIDE WITH AND INSTALL IN ACCORDANCE WITH FLORIDA PRODUCT APPROVAL.

FAN SCHEDULE

UNIT	TYPE	CFM	MAX. FAN RPM	ESP (IN. H20)	MAX. MOTOR POWER	SONES/db (MAX)	BASIS OF DESIGN	MODEL	CONTROL	ELECRICAL VOLTS/PHASE	NOTES
EF-1	CEILING	70	960	0.29	14 W	2.5	GREENHECK	SP-A390-VG	INTERLOCK WITH LIGHTS	120/1	1,2,3,4,5,6
EF-2	CEILING	70	960	0.29	14 W	2.5	GREENHECK	SP-A390-VG	INTERLOCK WITH LIGHTS	120/1	1,2,3,4,5,6
EF-3	CEILING	70	960	0.29	14 W	2.5	GREENHECK	SP-A390-VG	INTERLOCK WITH LIGHTS	120/1	1,2,3,4,5,6
EF-4	CEILING	70	960	0.29	14 W	2.5	GREENHECK	SP-A390-VG	INTERLOCK WITH LIGHTS	120/1	1,2,3,4,5,6

1. PROVIDE DISCONNECT
2. PROVIDE SOLID STATE SPEED CONTROLLER
3. PROVIDE BACKDRAFT DAMPER
4. PROVIDE THERMAL OVERLOAD
5. PROVIDE DIRECT DRIVE FAN WITH EC MOTOR.
6. PROVIDE RUBBER IN SHEAR VIBRATION ISOLATION.

SPLIT SYSTEM HEAT PUMP SCHEDULE

UNIT AHU/HP	BASIS OF DESIGN	MODEL HP/AHU	SA (CFM)	OA (CFM)	ESP (IN.H20)	FAN (HP)	COOLING					HEATING				SUPPL. HEAT (KW)	AHU ELECTRICAL			HP ELECTRICAL			NOTES
							MAT* (DB/WB)	OAT* (DB/WB)	TOTAL (BTUH)	SENSIBLE (BTUH)	SEER	MAT* (DB)	OAT* (DB)	TOTAL (BTUH)	HSPF		VOLTS/PHASE	MCA	MOP	VOLTS/PHASE	MCA	MOP	
1	TRANE	5TWR4042A1/5TEM6D05AV41	1120	150	0.76	1/3 HP	75.2/64.4	95/78	36445	23840	14.30	60	25	27645	7.50	7.2	208/1	49	50	230/1	24	40	1,2,3,4,5,6,7,8
2	TRANE	5TWR4030A1/5TEM4B03AC31	810	100	0.70	1/8 HP	74.8/63.0	95/78	24650	17725	14.30	60	25	18920	7.50	7.2	208/1	48	50	230/1	16	25	1,2,3,4,5,6,7,8
3	TRANE	5TWR4036A1/5TEM6D04AV31	1125	80	0.74	1/8 HP	73.8/61.8	95/78	30630	25010	14.30	60	25	22970	7.50	7.2	208/1	49	50	230/1	19	30	1,2,3,4,5,6,7,8
4	TRANE	5TWR4030A1/5TEM6D05AV41	995	65	0.70	1/8 HP	73.6/61.4	95/78	25500	21010	14.30	60	25	18730	7.50	7.2	208/1	49	50	230/1	16	25	1,2,3,4,5,6,7,8

1. PROVIDE 2" 30% FILTERS AND FILTER HOUSING SHOWN IN DETAILS.
2. EFFICIENCIES IN ACCORDANCE WITH ARI STANDARD 210/240.
3. ESP DOES NOT INCLUDE FILTER, CASING, ETC.
4. PROVIDE CONTROL KIT TO INCLUDE BLOWER CONTACTOR OR STARTER, TRANSFORMER, ELECTRIC HEATER INTERLOCKS. ELECTRICAL SERVICE SHALL BE A SINGLE POINT OF CONNECTION.
5. PROVIDE THERMAL EXPANSION VALVES.
6. DIRECT DRIVE AHU FAN.
7. COOLING CAPACITY IS NET AND DOES NOT INCLUDE FAN HEAT.
8. PROVIDE UNIT MOUNTED CIRCUIT BREAKER FOR INDOOR AIR HANDLERS.

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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

LEGEND, SCHEDULE, NOTES, AND DETAILS

Date 12/19/2025
Drawn By YOJ
Checked By SLD

M001

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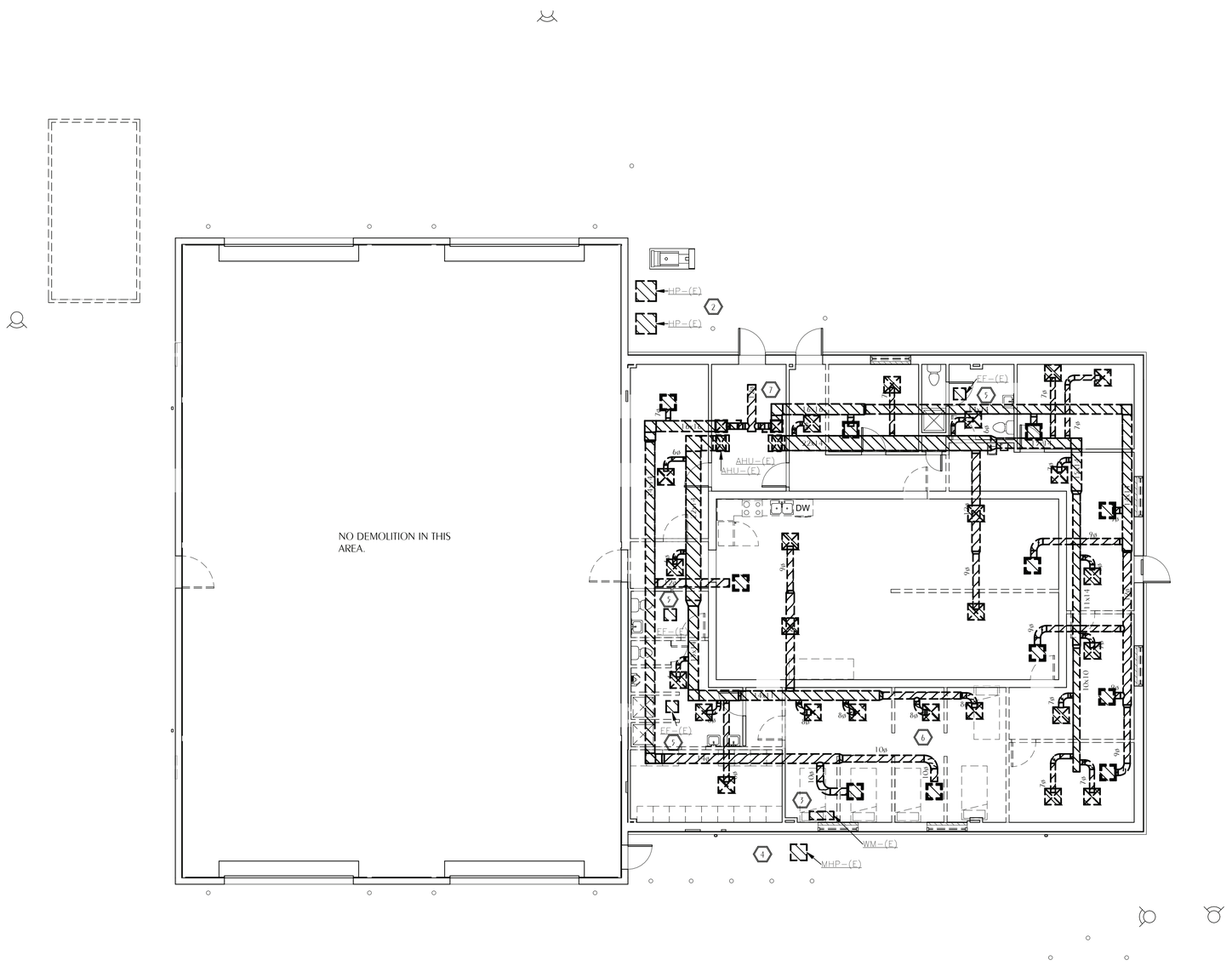

SHEET NOTES

1. DISCONNECT DUCTWORK AND PIPING AND REMOVE NATURAL GAS FURNACE ALONG WITH METAL STAND AND ALL ASSOCIATED REFRIGERANT PIPING, GAS PIPING, METAL FLUE, COMBUSTION AIR DUCTWORK, AND ACCESSORIES AND CONTROLS. COORDINATE WITH THE GENERAL CONTRACTOR IN THE FIELD.
2. REMOVE CONDENSING UNITS ALONG WITH ALL ASSOCIATED REFRIGERANT PIPING. ABANDON UNDERGROUND REFRIGERANT PIPE CHASES IN PLACE AND SEAL INDOOR AND OUTDOOR ENDS.
3. REMOVE WALL-MOUNT MINI-SPLIT INDOOR UNIT ALONG WITH ALL ASSOCIATED REFRIGERANT PIPING, CONDENSATE DRAIN LINE, AND ACCESSORIES.
4. REMOVE MINI-SPLIT OUTDOOR UNIT ALONG WITH ALL ASSOCIATED REFRIGERANT PIPING, ACCESSORIES AND CONTROLS. COORDINATE SEALING OF EXTERIOR WALL WITH THE GENERAL CONTRACTOR IN THE FIELD.
5. DISCONNECT DUCTWORK AND REMOVE CEILING-MOUNTED EXHAUST FAN.
6. REMOVE WALL-MOUNTED TRANSFER FAN.
7. REMOVE ALL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK, HANGERS, ACCESORIES, FITTINGS, FLEXIBLE DUCT, AND AIR TERMINAL DEVICES.

NOTE:
EXISTING HVAC SYSTEMS AND EQUIPMENT SHOWN ARE BASED ON ORIGINAL CONSTRUCTION DOCUMENTS AND NON-DESTRUCTIVE SITE INVESTIGATION. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY LOCATION, SIZE, AND QUANTITY OF ITEMS TO BE REMOVED.

1 M101 **MECHANICAL DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

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MECHANICAL DEMOLITION FLOOR PLAN

Date	12/19/2025
Drawn By	YOJ
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M101

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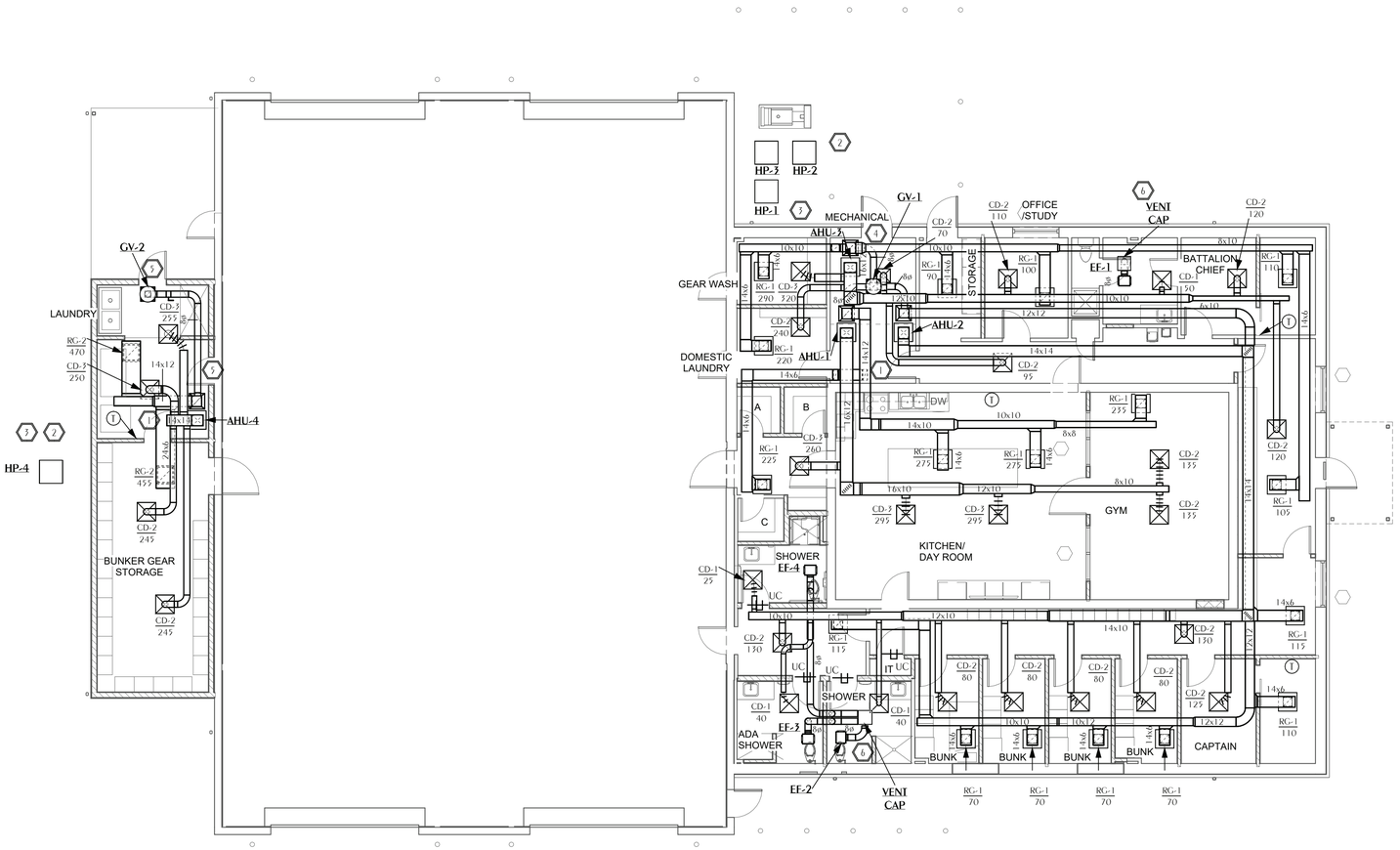

MECHANICAL NEW WORK FLOOR PLAN

PROJECT NORTH / TRUE NORTH

2 / M102 SCALE: 1/8" = 1'-0"

SHEET NOTES

1. INSTALL AIR HANDLING UNIT ON MIXED AIR PLENUM. PROVIDE MANUAL VOLUME DAMPER IN VERTICAL RETURN AIR DUCT AND AUTOMATIC CONTROL DAMPER IN VERTICAL OUTSIDE AIR DUCT. SEE VERTICAL UPFLOW AHU DETAIL ON SHEET M201.
2. IF NOT ALREADY PRESENT, PROVIDE CONCRETE EQUIPMENT PAD MINIMUM 3" LARGER THAN EQUIPMENT PROVIDED ON ALL SIDES AND MINIMUM 3" ABOVE GRADE. SECURE EQUIPMENT PER ITS MANUFACTURER'S RECOMMENDATIONS. POSITION OUTDOOR UNITS SO THAT WATER DOES NOT RUN OFF THE ROOF DIRECTLY ONTO EACH UNIT. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES AROUND ALL OUTDOOR UNITS.
3. ROUTE REFRIGERANT PIPING UP INSIDE WALL TO APPROPRIATE AIR HANDLING UNIT. CONNECT INDOOR AND OUTDOOR UNITS PER THE MANUFACTURER'S RECOMMENDATIONS. INSULATE THE ENTIRE LENGTH OF SUCTION PIPING WITH MINIMUM 3/4" THICK FLEXIBLE UNICELLULAR INSULATION. CONTRACTOR SHALL DETERMINE BEST ROUTING IN THE FIELD COORDINATING WITH ALL OTHER TRADES.
4. ROUTE 10" DIAMETER AIR DUCT UP THROUGH ROOF AND TERMINATE WITH GREENHECK GRSI 10 INTAKE VENTILATOR OR APPROVED EQUIVALENT.
5. ROUTE 8" DIAMETER OUTSIDE AIR DUCT UP THROUGH ROOF AND TERMINATE WITH GREENHECK GRSI 8 INTAKE VENTILATOR OR APPROVED EQUIVALENT.
6. ROUTE 6" DIAMETER EXHAUST DUCT UP THROUGH ROOF AND TERMINATE WITH APPROVED ROOF CAP.

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M102

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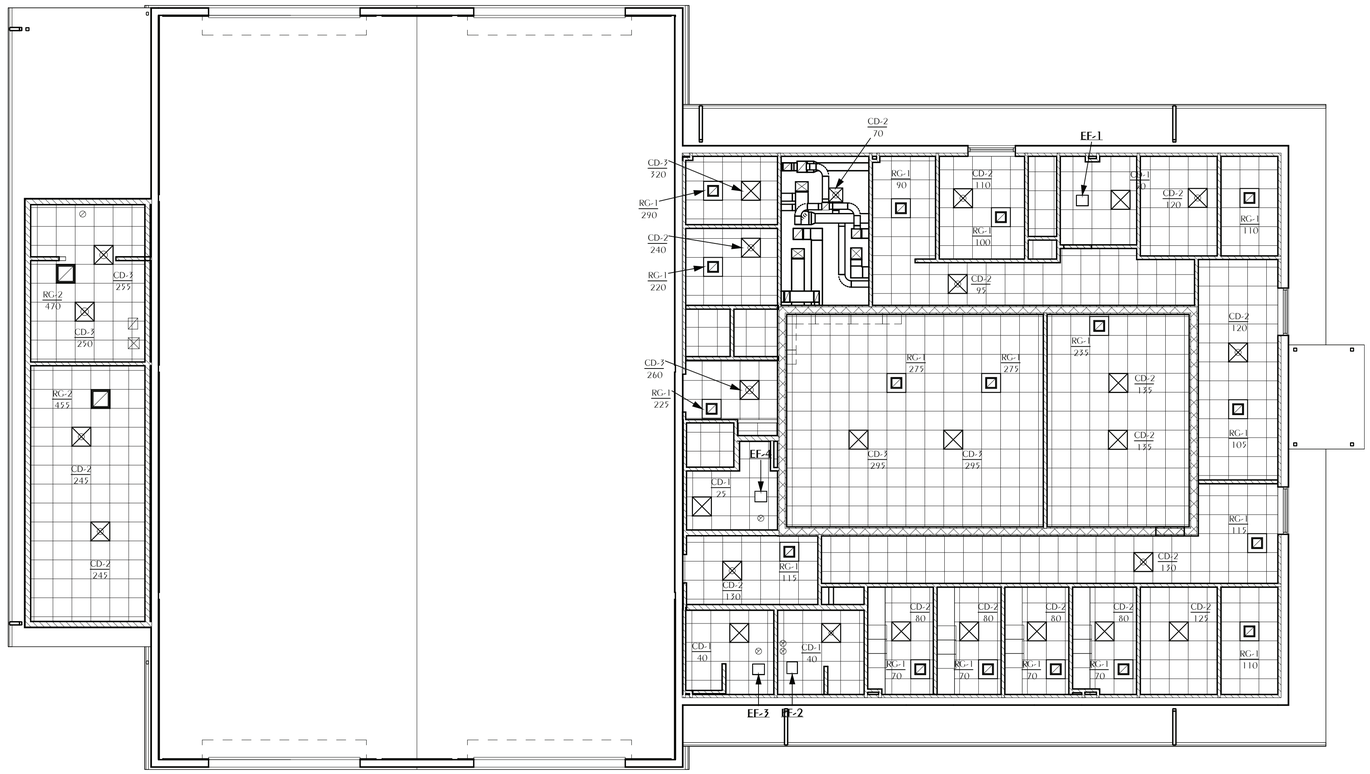

1 MECHANICAL NEW WORK CEILING PLAN

M103

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

PROJECT NORTH

TRUE NORTH

CITY of CRESTVIEW, FLORIDA
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MECHANICAL NEW WORK CEILING PLAN

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M103

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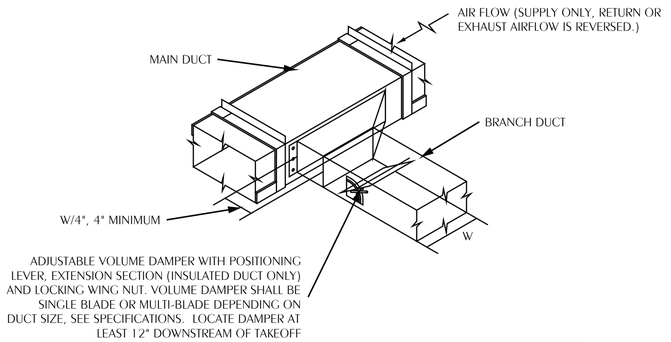
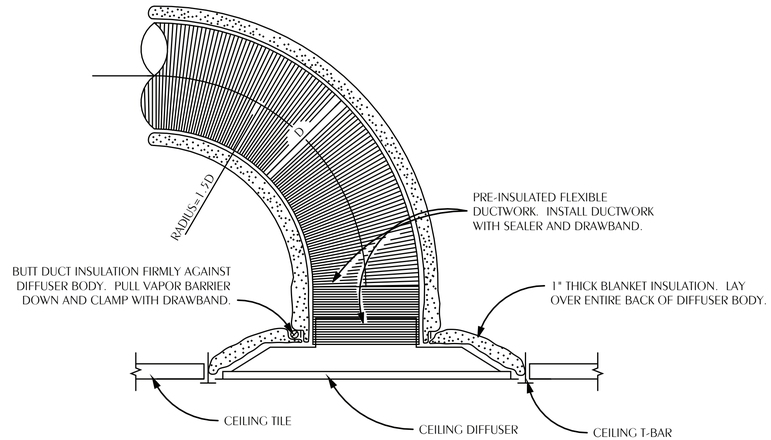


NOTES:

PROVIDE REMOTE CABLE ACTUATOR FOR AIR DEVICE IN HARD CEILINGS WITHOUT ACCESS. MOUNT ACTUATOR IN FACE OF AIR DEVICE.

FLEXIBLE INSULATION SHALL BE 2" THICK, ASTM C553, TYPE 1, CLASS B-3 WITH 1 PCF DENSITY AND UL RATED ALUMINUM FOIL VAPOR BARRIER (FSK)

1 TYPICAL BRANCH DUCT TAKEOFF
M201 SCALE: NONE



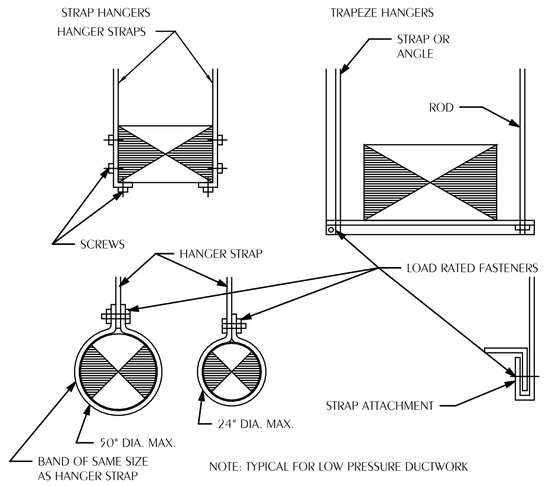
NOTES:

FLEX DUCT SHALL BE NO LONGER THAN 5'-0". FLEXIBLE DUCT SHALL HAVE REINFORCED, METALIZED POLYESTER JACKET WITH NO FIBERGLASS EROSION IN THE AIRSTREAM AND AN ENCAPUSLATED WIRE HELIX. FLEX DUCT SHALL HAVE OPERATING PRESSURE OF 6" W.G. AND NEGATIVE OPERATING PRESSURE OF 0.75" W.G. FLEX DUCT SHALL HAVE R-VALUE OF R-6 AND MEET REQUIREMENTS OF UL-181, 2020 FLORIDA ENERGY CODE, NFPA 90A AND NFPA 90B. ATCO 36 OR APPROVED EQUAL.

PROVIDE 24X24 LAY IN PANEL FOR DIFFUSERS IN LAY IN CEILINGS.

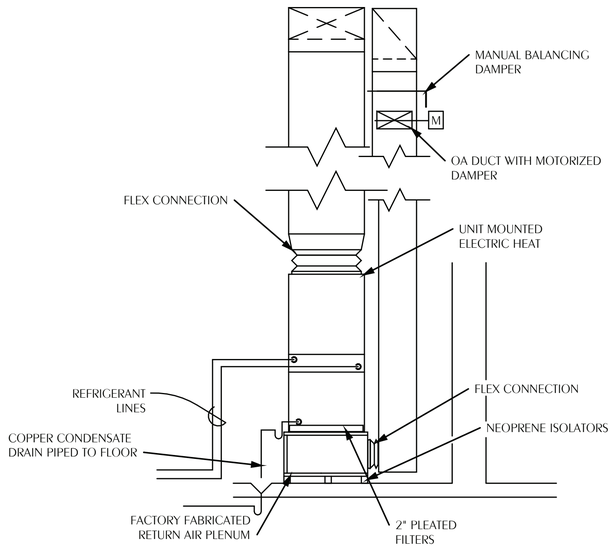
PROVIDE BEVELED MOUNTING FRAME FOR DIFFUSERS IN HARD CEILINGS.

2 TYPICAL CEILING DIFFUSER DETAILS
M201 SCALE: NONE



NOTE: TYPICAL FOR LOW PRESSURE DUCTWORK

3 TYPICAL DUCT HANGER DETAILS
M201 SCALE: NONE

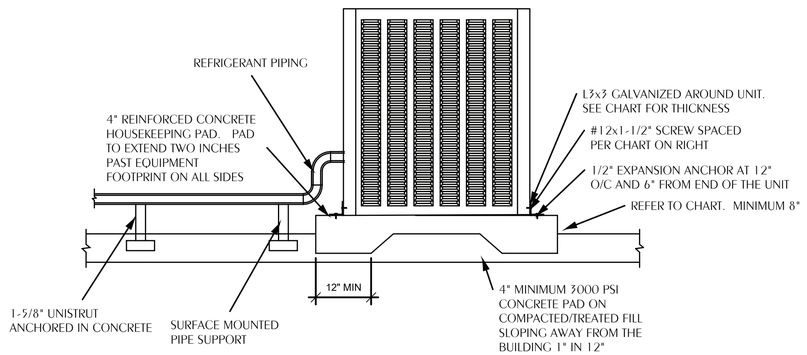


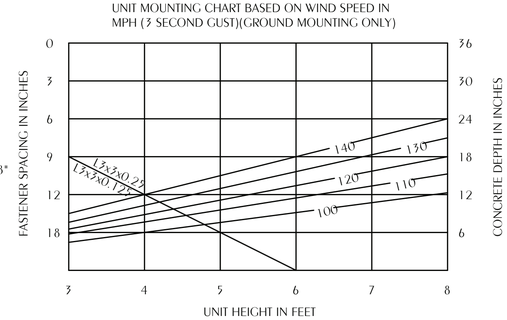
NOTES:
SECURE REFRIGERANT LINES AND CONDENSATE PIPING WITH UNISTRUT.

PROVIDE FACTORY FABRICATED RETURN AIR PLENUM OR ENGINEER APPROVED EQUAL WITH 2" FILTER FRAME.

SIZE COPPER CONDENSATE LINE AT FULL SIZE OF UNIT CONNECTION, BUT IN NO CASE SMALLER THAN 3/4".

4 VERTICAL UPFLOW AHU DETAIL
M201 SCALE: NONE





DESIGN CRITERIA:

CODE:	ASCE 7-10
VELOCITY:	SEE BELOW
Kz:	0.70
Kzt:	1.00
Kd:	0.85
IMPORTANCE:	1.15
EXPOSURE:	B
GI:	1.3
GI:	0.85
qz:	
100 mph	17.52 psf
110 mph	21.20 psf
120 mph	25.22 psf
130 mph	29.60 psf
140 mph	34.33 psf
Pdesign:	
100 mph	19.36 psf
110 mph	23.42 psf
120 mph	27.87 psf
130 mph	32.71 psf
140 mph	37.94 psf

TYPICAL OUTDOOR MECHANICAL UNIT MOUNTING DETAIL
M201 SCALE: NONE

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M201

RACEWAYS AND CONDUCTORS

SYMBOL	DESCRIPTION
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP/DOWN
	CONDUIT CAP
	RACEWAY INSTALLED CONCEALED IN WALLS OR ABOVE CEILING
	RACEWAY INSTALLED EXPOSED
	RACEWAY INSTALLED IN SLAB / BELOW GRADE / UNDER FLOOR
P-1,3,5	HOMERUN ARROW WITH CIRCUIT TAG. CIRCUIT TAG INDICATES PANEL-SPACE,SPACE,SPACE. TAG SHOWN INDICATES PANEL "P" WITH 3 POLE CIRCUIT TO SPACES 1, 3, AND 5
	WIRE COUNT TICK MARKS. EACH TICK MARK INDICATES ONE CONDUCTOR IN RACEWAY. TICK MARK WITH DOT REPRESENTS EQUIPMENT GROUND. NO TICK MARK INDICATES 2 CONDUCTORS PLUS EQUIPMENT GROUND.
	ANNOTATIVE BREAK IN WIRE INDICATES CIRCUIT CONTINUES BEYOND WHAT IS SHOWN
	FLEXIBLE CONDUIT CONNECTION

( )# & # - °C

- TOTAL NUMBER OF RUNS. SEE NOTE 1.
- TOTAL NUMBER OF CONDUCTORS PER RUN
- SIZE OF CONDUCTORS AWG OR KCMIL
- TRADE SIZE OF CONDUIT
- SIZE OF GROUNDING CONDUCTOR
- NUMBER GROUNDING CONDUCTORS. SHOULD ALWAYS BE 1.

NOTES
1. ONLY INDICATED IF MORE THAN ONE.
2. SEE FEEDER SCHEDULE
3. NO WIRE SIZE NOTED INDICATES 2#12 & 1#12 - 3/4"C.

EXAMPLE
2#10 & 1#10 - 3/4"C
- ONE RUN OF 3/4" CONDUIT CONTAINING TWO #10AWG AND ONE #10AWG GROUNDING CONDUCTOR.

(2)4#3/0 & 1#3 - 2"C
- TWO RUNS OF 2" CONDUIT WITH EACH CONDUIT CONTAINING FOUR #3/0AWG AND ONE #3/0AWG GROUNDING WIRE.

WIRING NOTES

1. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
2. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
3. FINAL CONNECTION TO ALL DRY TYPE TRANSFORMERS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
4. PROVIDE BUSHINGS ON ALL CONDUIT.
5. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS - SIZE PER N.E.C.
6. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA X 18" HIGH WITH 2" ABOVE FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL,"T" FOR TELEPHONE,"V" FOR TV CABLE,"F" FOR FIRE ALARM, AND "IC" FOR INTERCOM.

POWER DEVICES

SYMBOL	DESCRIPTION	SPECIFICATION
	JUNCTION BOX WALL MOUNTED	REFER TO SPECIFICATIONS
	JUNCTION BOX ABOVE CEILING	REFER TO SPECIFICATIONS
	JUNCTION BOX MOUNTED IN FLOOR	REFER TO SPECIFICATIONS
	RED MUSHROOM EMERGENCY STOP; MAINTAINED PUSH AND KEY RELEASE; LABEL "EMERGENCY STOP"	SQUARE D MODEL XB6AS9345B. SEE DETAILS.
$_{2P}	2 POLE, 600V, 30A TOGGLE DISCONNECT SWITCH WITH LOCKABLE ENCLOSURE	HUBBELL BRYANT 30102D
WP $_{2P}	2 POLE, 600V, 30A, NEMA 3R TOGGLE DISCONNECT SWITCH WITH LOCKABLE ENCLOSURE; WEATHERPROOF	HUBBELL BRYANT 30322D
DESIGNATION	DESCRIPTION	SPECIFICATION
XX	"XX" INDICATES TYPE OF EQUIPMENT TO BE POWERED. EQUIPMENT TYPES: DDC = HVAC CONTROL PANEL, DDC ACP = ACCESS CONTROL PANEL AV = AUDIO VISUAL EQUIPMENT POWER	REFER TO SPECIFICATIONS

POWER DEVICE NOTES

1. FOR TOGGLE SWITCH USED AS EQUIPMENT DISCONNECT, ELECTRICAL PLANS INDICATING DEVICES MOUNTED TO EQUIPMENT IS DIAGRAMMATIC ONLY AND THE FINAL LOCATION OF DEVICES SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR. COORDINATE DEVICE MOUNTED TO EQUIPMENT SPECIFIED AND PROVIDED UNDER OTHER SECTIONS WITH INSTALLING CONTRACTOR AND THE SPECIFYING ENGINEER.

RECEPTACLES

SYMBOL	DESCRIPTION	SPECIFICATION
	DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES HBL5352
	QUAD RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES HBL5352
	DUPLEX GFCI RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES GF5362
	DUPLEX TVSS RECEPTACEL; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES HBL5362SA
	DUPLEX TAMPER RESISTANT RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R	HUBBELL SERIES BR20xxTR
X	SPECIAL PURPOSE RECEPTACLE. "X" INDICATES DEVICE TYPE. DEVICE TYPE: A = 125V, 30A, 3W, NEMA L5-30R B = 250V, 30A, 4W, NEMA 14-30R	A = HUBBELL SERIES HBL2610 B = HUBBELL SERIES HBL9430A
DESIGNATION	DESCRIPTION	SPECIFICATION
+XX"	MOUNTING HEIGHT INDICATION FOR OTHER THAN 18" AFF TO C/L. +XX" SHALL INDICATED MOUNTING INCHES ABOVE FINISHED FLOOR TO CENTER LINE. MOUNTING HEIGHT SHALL BE FIELD COORDINATED FOR THE FOLLOWING: +AC" = ABOVE COUNTER. +DF" = DRINKING FOUNTAIN +TV" = TELEVISION +SB" = SMARTBOARD/INTERACTIVE FLAT PANEL +TS" = TEACHER STATION RECEPTACLE +DW" = DISHWASHER RECEPTACLE	
WP	"WP" INDICATES WEATHER PROOF DEVICE AND WEATHER PROOF IN-USE COVER.	COVER: PASS AND SEYMOUR WIUFC10S REFER TO SPECIFICATIONS

RECEPTACLE NOTES

1. ANY RECEPTACLE LOCATED IN WET ENVIRONMENT PROVIDE THE EQUIVALENT WP VERSION OF RECEPTACLE.
2. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
3. VERIFY EXACT LOCATION OF ALL FLOOR OUTLETS WITH THE ARCHITECT PRIOR TO ROUGHING-IN.
4. MOUNT RECEPTACLES 18" AFF TO C/L UNLESS NOTED OTHERWISE.

LIGHTING CONTROLS

SYMBOL	DESCRIPTION	SPECIFICATION
RC	LIGHTING CONTROLS ROOM CONTROLLER. INSTALL CONCEALED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.	REFER TO SPECIFICATIONS. SEE DETAILS
V	LIGHTING CONTROLS MOTION SENSOR; CEILING MOUNTED; PROGRAMMED FOR VACANCY SENSING.	REFER TO SPECIFICATIONS. SEE DETAILS.
O	LIGHTING CONTROLS MOTION SENSOR; CEILING MOUNTED; PROGRAMMED FOR OCCUPANCY SENSING.	REFER TO SPECIFICATIONS. SEE DETAILS.
S_{LV}	LOW VOLTAGE SWITCH. "X" INDICATES BUTTON COUNT.	REFER TO SPECIFICATIONS. SEE DETAILS.
S_{M}	WALL SWITCH WITH MOTION SENSOR; PROGRAM FOR OCCUPANCY SENSING.	WATTSTOPPER #DWS-301-W
S_{MD}	WALL SWITCH WITH MOTION SENSOR AND 0-10V DIM; PROGRAM FOR VACANCY SENSING.	HUBBELL SERIES ADD2000W1
S	SINGLE POLE TOGGLE SWITCH	HUBBELL SERIES HBL1221
BR	LIGHTING CONTROLS NETWORK BRIDGE. INSTALL CONCEALED ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE.	REFER TO SPECIFICATIONS. SEE DETAILS.
DESIGNATION	DESCRIPTION	SPECIFICATION
	"WP" INDICATES DEVICE IN WEATHER PROOF COVER.	REFER TO SPECIFICATIONS

LIGHTING CONTROL NOTES

1. REFER TO LIGHTING CONTROL MATRIX / SEQUENCE OF OPERATIONS TABLE FOR PROGRAMMING OF LIGHTING CONTROLS.
2. REFER TO LIGHTING CONTROL DETAILS FOR TYPICAL WIRING OF CONTROLS, LOW VOLTAGE NETWORKING OF CONTROLS, AND BASIS OF DESIGN EQUIPMENT SPECIFICATIONS.
3. ALL LIGHTING CONTROL SWITCHES SHALL BE MOUNTED 48" AFF TO C/L UNLESS NOTED OTHERWISE.
4. FOR ALL DEVICES INDICATED AS WEATHERPROOF PROVIDE THE EQUIVALENT WEATHERPROOF DEVICE TYPE AND WEATHERPROOF COVER.

LIGHTING FIXTURES

SYMBOL	DESCRIPTION	SPECIFICATION
	CEILING MOUNTED FIXTURE; DRAWN TO SCALE	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	CEILING MOUNTED FIXTURE; MIDDLE LINE INDICATES LENS DIRECTION; DRAWN TO SCALE	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	WALL MOUNTED FIXTURE	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	CEILING MOUNTED FIXTURE	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	EXIT SIGN; WALL MOUNTED; SHADED REGION INDICATES ILLUMINATED FACE; ARROW INDICATES DIRECTIONAL ARROW	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
	EXIT SIGN; CEILING MOUNTED; SHADED REGION INDICATES ILLUMINATED FACE; ARROW INDICATES DIRECTIONAL ARROW	SEE LIGHTING FIXTURE SCHEDULE; REFER TO SPECIFICATIONS
DESIGNATION	DESCRIPTION	SPECIFICATION
a DL	"DL" REPRESENTS FIXTURE IDENTIFIER. LOWERCASE LETTER "a" INDICATES SWITCHING ZONE.	REFER TO LIGHTING FIXTURE SCHEDULE. REFER TO LIGHTING CONTROLS MATRIX / SEQUENCE OF OPERATIONS.
	SHADED CENTER OF FIXTURE REPRESENTS FIXTURE FOR EMERGENCY EGRESS LIGHTING.	REFER TO LIGHTING FIXTURE SCHEDULE. REFER TO LIGHTING CONTROL DETAILS.

LIGHTING FIXTURE NOTES

1. LIGHTING FIXTURE SYMBOLS REPRESENT THE GENERAL SIZE AND SHAPE OF THE FIXTURE, BUT ARE NOT MEANT TO BE TO-SCALE REPRESENTATIONS UNLESS NOTED OTHERWISE. THE SYMBOLS LISTED IN THE ABOVE LEGEND ARE TYPICAL BUT MAY NOT REPRESENT ALL SYMBOLS SHOWN ON THE PLANS.
2. REFER TO THE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.
3. LOCATION OF LIGHTING FIXTURES IN MECHANICAL EQUIPMENT ROOM SHALL BE COORDINATED WITH THE FINAL MECHANICAL EQUIPMENT LOCATION INCLUDING AC EQUIPMENT, PUMPS, DUCTWORK, PIPE, ETC. TO PROVIDE NEC REQUIRED ACCESS SPACE AND PROPER ILLUMINATION.
4. ALL EXIT SIGNS AND FIXTURES WITH INTEGRAL BATTERY BACKUP SHALL BE CONNECTED TO THE LIGHT CIRCUIT AHEAD OF LOCAL SWITCH CONTROL.
5. ALL LIGHTING FIXTURE FINISHES SHALL BE SELECTED BY THE ARCHITECT.

ELECTRICAL EQUIPMENT

SYMBOL	DESCRIPTION	SPECIFICATION
	SURFACE MOUNTED PANEL; LINE TO GROUND VOLTAGE GREATER THAN 150V; TYP. 480Y/277V	SEE PANEL SCHEDULE; REFER TO SPECIFICATIONS
	SURFACE MOUNTED PANEL; LINE TO GROUND VOLTAGE LESS THAN 150V; TYP. 208Y/120V	SEE PANEL SCHEDULE; REFER TO SPECIFICATIONS
	NON-FUSED DISCONNECT	SEE EQUIP. SCHEDULE; REFER TO SPECIFICATIONS
ATS	TRANSFER SWITCH; AUTOMATIC INDICATED AS "ATS", MANUAL INDICATED AS "MTS"	SEE RISER; REFER TO SPECIFICATIONS
DESIGNATION	DESCRIPTION	
MDP	EQUIPMENT NAME INDICATION; EXAMPLE SHOWN AS "MDP"	
30/3/3R	DISCONNECT SIZE INDICATION SHALL BE AMPS/POLES/NEMA-RATING; EXAMPLE SHOWN IS 30 AMPS, 3 POLES, NEMA 3R	

EQUIPMENT NOTES

1. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM. REFER TO EQUIPMENT LABELING DETAILS.
2. LOCATION OF DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO EQUIPMENT LABELING DETAILS.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. THE OWNER SHALL PROVIDE AVAILABLE CALCULATION DATA FOR THE EXISTING EQUIPMENT IN THE ELECTRICAL SYSTEM. REFER TO EQUIPMENT LABELING DETAILS.

REFERENCE DESIGNATIONS

SYMBOL	DESCRIPTION
#	KEYNOTE REFERENCE
#	FEEDER NOTE REFERENCE
1	REVISION REFERENCE
	REVISION CLOUD MARKS REVISED PORTION OF DRAWING.

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ELECTRICAL LEGEND

Date	12/19/2025
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E001

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GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.

B. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN WALL FOR SWITCHES.

C. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT 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.

D. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.

E. PROVIDE BUSHINGS ON ALL CONDUIT.

F. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.

G. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.

H. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.

I. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED IN PROPER WORKING ORDER, AND SHALL REPLACE WITHOUT ADDITIONAL COST, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, (ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED) WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

DEMOLITION NOTES

A. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED WITH THE FACILITY PERONNEL IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE.

B. ALL DEMOLITION WORK REQUIRED SHALL BE PERFORMED WITH CARE SO AS NOT TO INTERRUPT OTHER EXISTING SERVICES (WATER, GAS, ELECTRICAL, SEWER, SPRINKLERS, ETC.). IF ACCIDENTAL UTILITY INTERRUPTION, DAMAGE, ETC., RESULTS FROM WORK PERFORMED BY THE CONTRACTOR, THE AFFECTED UTILITY OR SERVICE SHALL BE RETURNED TO ITS ORIGINAL CONDITION WITHOUT DELAY, BY AND AT THE EXPENSE OF THE CONTRACTOR, USING SKILLED WORKMEN OF THE TRADE INVOLVED.

C. REMOVE ALL OUTLETS, PULL BOXES, JUNCTION BOXES, ETC., AS REQUIRED TO COMPLETELY REMOVE THE ELECTRICAL ITEMS SHOWN FOR DEMOLITION UNLESS NOTED TO REMAIN. DISCONNECT AND REMOVE ALL ELECTRICAL PROVISIONS TO EQUIPMENT BEING REMOVED.

D. REMOVE ALL WIRING, CONDUIT, RACEWAYS, OUTLET BOXES, SUPPORTING APPARATUS ETC., AS REQUIRED.

E. SYMBOLS SHOWN ARE TYPICAL AND LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO LIMIT THE AMOUNT OF DEMOLITION. COORDINATE WITH EXISTING CONDITIONS AND THESE NOTES AND REMOVE ALL APPLICABLE SYSTEMS AND COMPONENTS CONFLICTING WITH FINISHED DESIGN INTENT.

F. EXISTING BRANCH WIRING SHOWN IS DIAGRAMMATICAL ONLY AND IS BASED UPON EXISTING AS-BUILT DRAWINGS AND SURVEYS. COORDINATE WITH ACTUAL EXISTING CONDITIONS FOR NUMBER OF CONDUCTORS PER CONDUIT AND EXACT LOCATIONS OF CONDUIT RUNS AND EQUIPMENT.

G. ALL FEEDERS, SYSTEMS, CONTROL WIRING, MISCELLANEOUS AUXILIARY SYSTEMS, ETC., PASSING THROUGH THE AREA OF WORK SHALL BE MAINTAINED AT ALL TIMES, REMAIN IN SERVICE, CONTINUOUS AND UNINTERRUPTED. ANY DAMAGE, DISRUPTION OR DISCONNECTION SHALL BE IMMEDIATELY REPAIRED, REPLACED AND/OR REROUTED AS REQUIRED TO MAINTAIN CONTINUITY OF SYSTEMS. ANY EXISTING SERVICE OR OPERATING SYSTEM WHICH MUST BE INTERRUPTED SHALL BE SUPPLIED WITH A TEMPORARY SERVICE FOR CONTINUATION OF THE NORMAL OPERATIONS OF THE FACILITY.

H. ANY EQUIPMENT THAT REQUIRES REMOVAL FROM EXISTING LOCATION FOR RE-USE OR TO BE RETURNED TO OWNER SHALL BE INSPECTED AND TESTED TO CONFIRM EQUIPMENT OPERATES AS INTENDED. OWNER SHALL BE NOTIFIED OF ANY EQUIPMENT THAT DOES NOT OPERATE AS INTENDED BEFORE REMOVAL.

I. CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE. INSTALL PLUG 6" INTO CONDUIT AND FILL REMAINING CONDUIT WITH CONCRETE, GROUT, OR OTHER PERMANENT FILLER FLUSH WITH SURFACE.

J. OUTLET BOXES THAT CANNOT BE REMOVED DUE TO FLUSH MOUNTING IN PARTITIONS SHALL BE FILLED WITH GROUT, PATCHED AND FINISHED FLUSH TO MATCH EXISTING WALL CONDITIONS.

K. IN GENERAL, THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   a. PROVIDE ALL DEMOLITION AS REQUIRED OF EXISTING SYSTEMS REMOVING ALL ITEMS THAT CONFLICT WITH FINISHED DESIGN INTENT AS INDICATED ABOVE.
   b. MODIFY, REPLACE, REPAIR, REVISE ETC., EXISTING SYSTEMS AND/OR EQUIPMENT.
   c. EXTEND EXISTING SYSTEMS AS REQUIRED TO FUNCTION AS SPECIFIED AND IN ACCORDANCE WITH SYSTEM REQUIREMENTS.
   d. NEW SYSTEM COMPONENTS SHALL MATCH EXISTING SYSTEMS PROVISIONS AND BE COMPLETELY COMPATIBLE AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. WHEN REQUIRED, APPROVAL FROM A SYSTEM MANUFACTURER SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO INSTALLING ANY NEW EQUIPMENT OR DEVICES TO AN EXISTING SYSTEM.
   e. ALL EQUIPMENT, DEVICES, OUTLETS, COMPONENTS, ETC., TO BE REUSED SHALL BE CLEANED, REPAIRED AND PLACED IN OPERATING CONDITION. LUMINARIES NOTED TO BE REUSED SHALL BE CLEANED, REPAIRED, PROVIDED WITH NEW LAMPS AND PLACED IN OPERATING CONDITION.
   f. EXISTING OUTLET BOXES MAY BE USED AS NOTED IF OF THE PROPER CONFIGURATION AND SIZE REQUIRED. MODIFICATIONS SHALL BE MADE WHEN REQUIRED SUCH AS PROVIDING EXTENSION RINGS, LOCKNUTS, BUSHINGS, ETC.
   g. EXISTING PANELBOARDS SHALL BE UTILIZED TO THE EXTENT SHOWN ON THE DRAWINGS AND MODIFIED AS REQUIRED TO FACILITATE THE NEW REQUIREMENTS AS INDICATED HEREIN OR SHOWN ON THE DRAWINGS. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER, FRAME SIZE, SHORT CIRCUIT RATING AND TYPE AS EXISTING. WHERE APPLICABLE, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL ADDITIONAL MOUNTING HARDWARE AS REQUIRED BY THE MANUFACTURER.
   h. WHEN EXISTING DEVICES, SWITCHES, EQUIPMENT ETC., ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC., EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.

ABBREVIATIONS

1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
4P	FOUR POLE
A	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CU	COPPER
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ELEC	ELECTRICAL
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FLA	FULL LOAD AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
Z	HERTZ (CYCLE) PER SECOND
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
LV	LOW VOLTAGE
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, AND - GROUND TRIP UNITS
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
Ø	PHASE
PNL	PANELBOARD
SEC	SECONDARY
SW	SWITCH
UG	UNDERGROUND
V	VOLT
W	WATT
XFMR	TRANSFORMER

SPECIAL DEMO NOTE

THE LOCATIONS OF ALL ELECTRICAL EQUIPMENT INDICATED (FIXTURES & DEVICES) MAY VARY FROM DRAWING. EXISTING CONDITIONS AND DEMOLITION WORK WAS DETERMINED BY SITE OBSERVATION AND REVIEW OF EXISTING DOCUMENTS WITHOUT THE BENEFIT OF DESTRUCTIVE INVESTIGATION. VERIFY ACTUAL LOCATIONS, TYPES, AND QUANTITIES OF EQUIPMENT AND APPLY DEMOLITION NOTES AS APPROPRIATE FOR THE EQUIPMENT AND ROOM OR AREA.

TOXIC MATERIAL DEMO NOTE

IF THE CONTRACTOR SUSPECTS TOXIC MATERIALS SUCH AS ASBESTOS AND/OR LEAD-BASED PAINT WILL BE AFFECTED AS PART OF THIS PROJECT THESE SHALL BE IDENTIFIED BEFORE CONSTRUCTION START. IF FEASIBLE, OTHERS WILL TEST FOR AND REMOVE THESE MATERIALS PRIOR TO CONSTRUCTION START. IF THESE MATERIALS MUST REMAIN IN PLACE THE CONTRACTOR WILL MINIMIZE THE DISTURBANCE OF SUCH MATERIALS LEAVING THEM ENCAPSULATED. WHERE SUCH MATERIALS CANNOT BE LEFT ENCAPSULATED THE CONTRACTOR SHALL INCLUDE TESTING OF THESE SPECIFIED AREAS AS PART OF THE PROJECT SCOPE. REMOVAL OF THESE MATERIALS IS NOT TO BE INCLUDED IN THE PROJECT SCOPE.

FIRE ALARM

SYMBOL	DESCRIPTION	SPECIFICATION
FACP	FIRE ALARM CONTROL PANEL / REMOTE ANNUNCIATOR PANEL AS INDICATED; RECESSED MOUNT.	REFER TO SPECIFICATIONS.
	MANUAL PULL STATION.	REFER TO SPECIFICATIONS.
	WALL MOUNT SIGNAL HORN/STROBE.	REFER TO SPECIFICATIONS.
	WALL MOUNT SIGNAL STROBE.	REFER TO SPECIFICATIONS.
	CEILING MOUNT AUTOMATIC HEAT DETECTOR; 135 DEGREE RATE OF RISE.	REFER TO SPECIFICATIONS.
	CEILING MOUNT CARBON MONOXIDE (CO) DETECTOR;	REFER TO SPECIFICATIONS.
	CEILING MOUNT AUTOMATIC SMOKE DETECTOR;	REFER TO SPECIFICATIONS.
	AUTOMATIC AIR DUCT SMOKE DETECTOR; MOUNTING COORDINATED WITH MECHANICAL.	REFER TO SPECIFICATIONS.
	FIRE SPRINKLER FLOW/TAMPER SWITCH.	REFER TO SPECIFICATIONS.
DESIGNATION	DESCRIPTION	SPECIFICATION
WP	'WP' INDICATES DEVICE LISTED AND RATED FOR EXTERIOR LOCATION (WEATHER PROOF).	REFER TO SPECIFICATIONS.
110	FOR SIGNAL STROBE DEVICES 110 INDICATES 110 CANDELA RATING; NO INDICATION 75 CANDELA.	REFER TO SPECIFICATIONS.

FIRE ALARM NOTES

1. ALL MANUAL PULL STATIONS SHALL BE MOUNTED 48" AFF TO C/L; ALL WALL MOUNTED SIGNAL DEVICES SHALL BE LOCATED 80" AFF TO BOTTOM OF DEVICE, BUT NOT LESS THAN 6" FROM CEILING.
2. FOR SIGNAL DEVICES, STROBE CANDELA AND AUDIO SIGNAL SHALL BE SELECTABLE ON THE BACK OF THE DEVICE.
3. FIRE ALARM LOW VOLTAGE SOURCE AND BATTERY STANDBY SHALL ENERGIZE ALL ITEMS IN FIRE ALARM SYSTEM THAT REQUIRE POWER.

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No.	Description	Date

ELECTRICAL LEGEND AND NOTES

Date	12/19/2025
Drawn By	LR
Checked By	KS

E002

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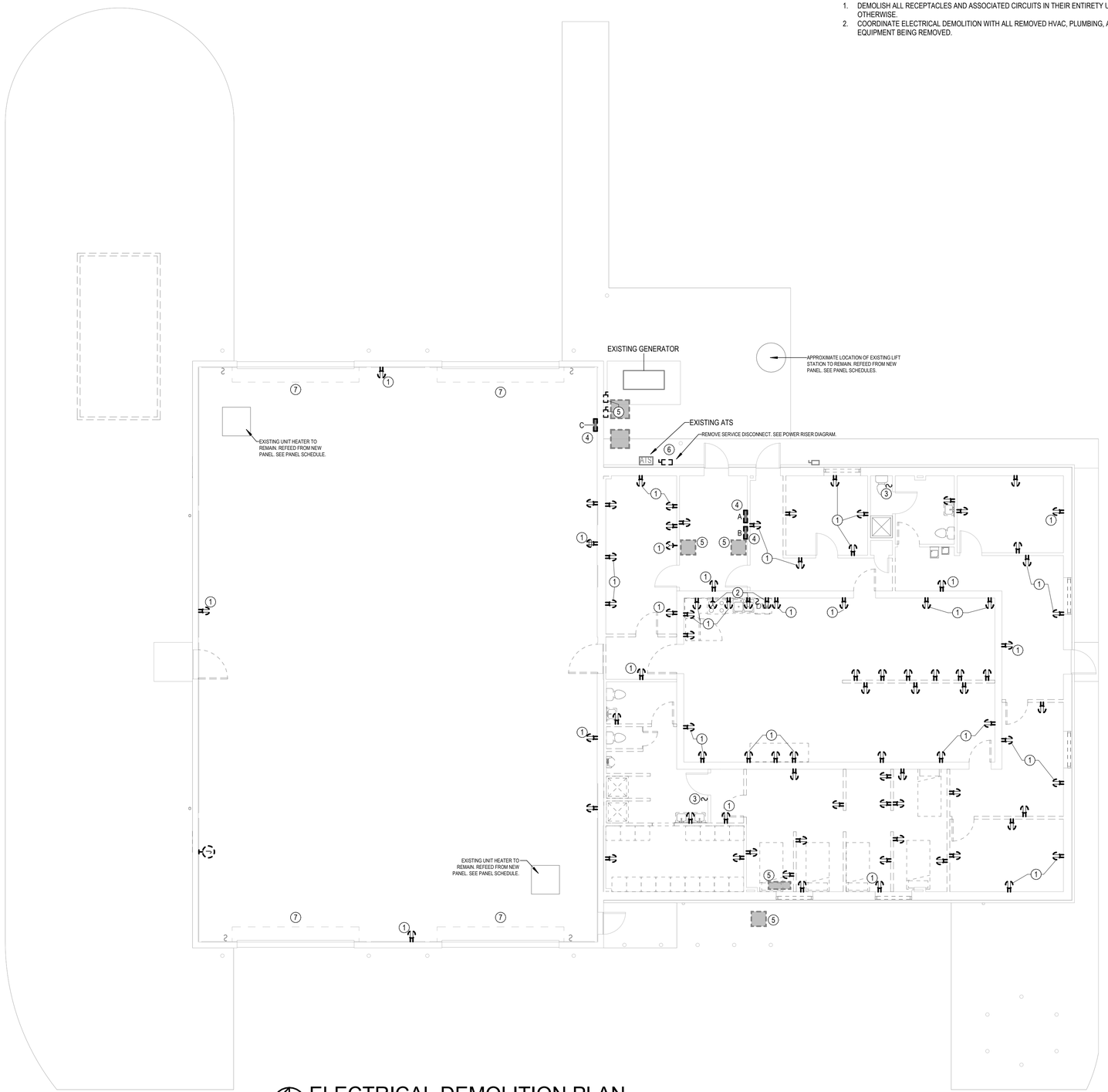
GENERAL NOTES

1. DEMOLISH ALL RECEPTACLES AND ASSOCIATED CIRCUITS IN THEIR ENTIRETY UNLESS NOTED OTHERWISE.
2. COORDINATE ELECTRICAL DEMOLITION WITH ALL REMOVED HVAC, PLUMBING, AND OTHER POEWRED EQUIPMENT BEING REMOVED.

KEYNOTES

1	REMOVE EXISITNG RECEPTACLE, COVER PLATE, AND ASSOCIATED CONDUCTORS IN THEIR ENTIRETY. PRESERVE EXISTING RECESSED BOX AND CONCEALED CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR REUSE AS REQUIRED.
2	DEMOLISH RECEPTACLE AND COVERPLATE. PRESERVE CONDUCTORS AND RACEWAY FOR REUSE IN NEW CONSTRUCTION.
3	DEMOLSIH ALL ELECTRICAL AND CONTROLS SERVING EXHAUST FAN BACK TO PANEL.
4	REMOVE EXISTING PANEL. SEE POWER RISER DIAGRAM.
5	DEMOLISH ALL ELECTRICAL SERVING MECHANICAL EQUIPMENT BACK TO PANEL.
6	DEMOLISH MAIN SERVICE DISCONNECT.
7	EXISTING POWERED DOOR SHALL REMAIN. PRESERVE CIRCUIT, DISOCNNECT FROM PANEL BEING REMOVED, AND PREPARE FOR CONNECTION TO NEW PANEL.



ELECTRICAL DEMOLITION PLAN

1/8" = 1'-0"

0 4' 8' 16'

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ELECTRICAL DEMOLITION PLAN

Date	12/19/2025
Drawn By	LR
Checked By	KS

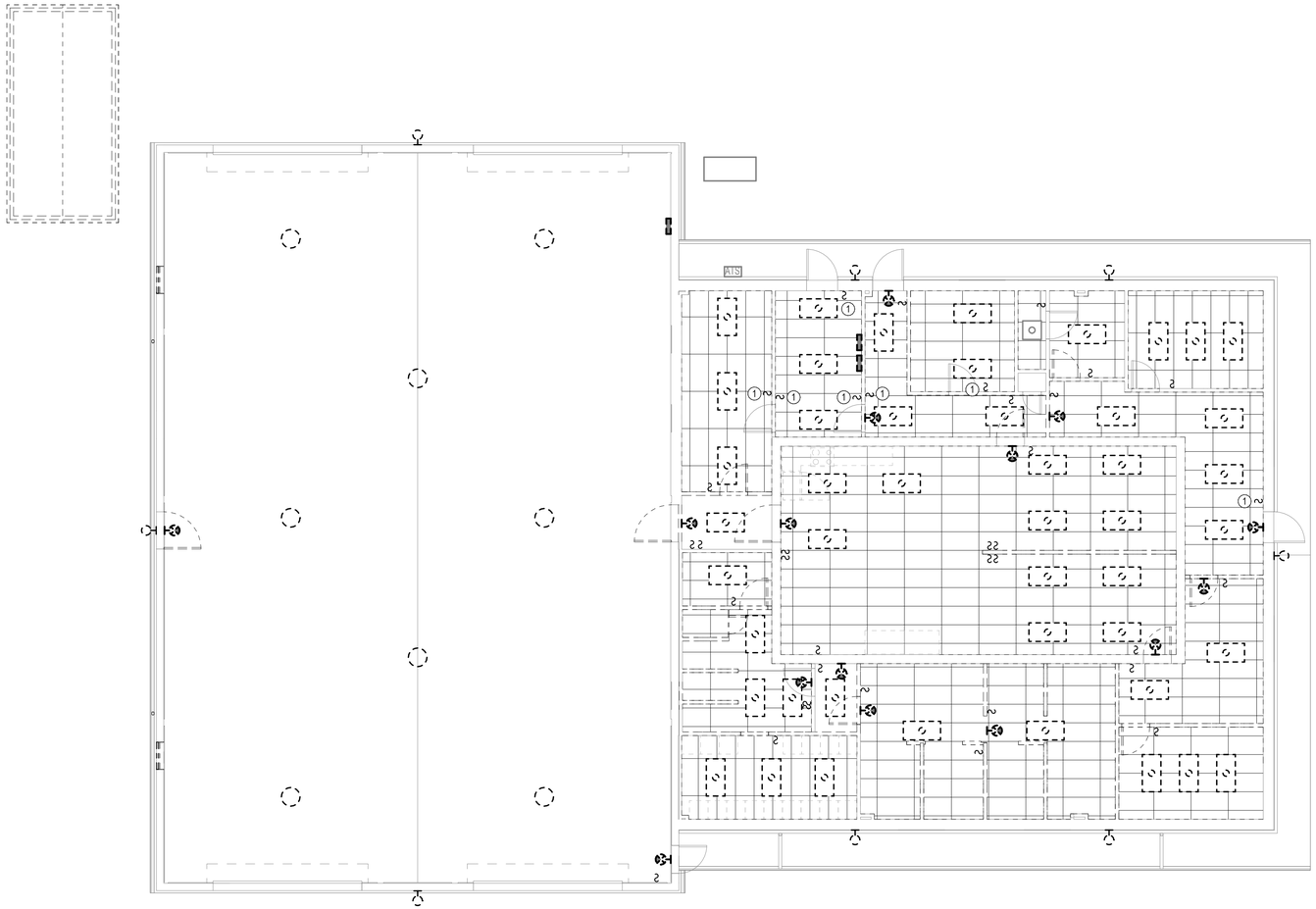
E101

GENERAL NOTES

1. DEMOLISH ALL LIGHTING FIXTURES AND LIGHTING CONTROLS IN THEIR ENTIRETY UNLESS NOTED OTHERWISE.

KEYNOTES

1 REMOVE EXISTING LIGHTING SWITCH, COVER PLATE, AND ASSOCIATED CONDUCTORS IN THEIR ENTIRETY. PRESERVE EXISTING RECESSED BOX AND CONCEALED CONDUIT UP TO ACCESSIBLE CEILING SPACE FOR REUSE AS REQUIRED.



LIGHTING DEMOLITION PLAN

1/8" = 1'-0"

0 4' 8' 16'

FIRE STATION 3

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LIGHTING DEMOLITION PLAN

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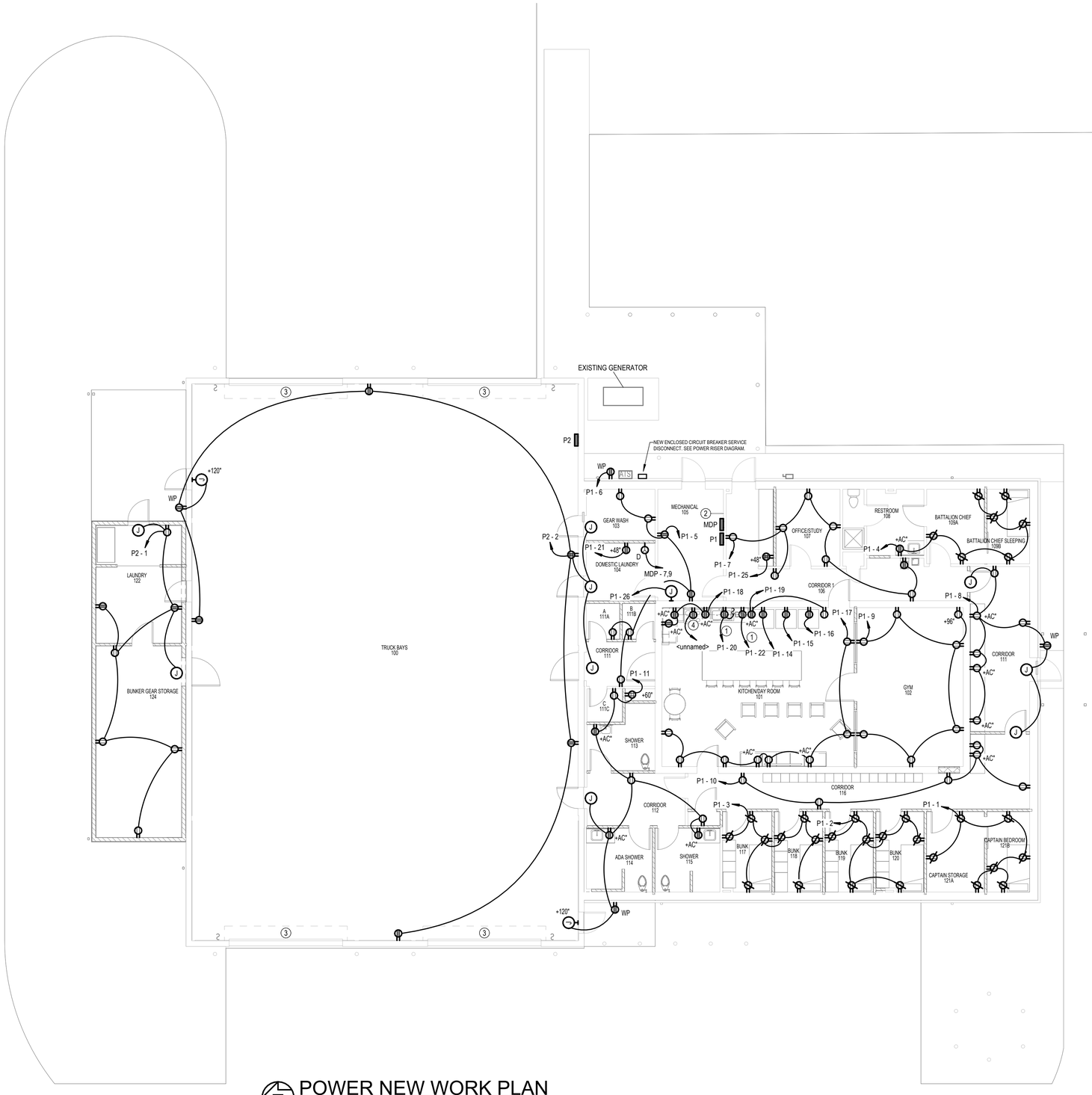
KEYNOTES

1	CONNECT NEW RECEPTACLE FOR KITCHEN EQUIPMENT TO EXISITNG CIRCUIT.
2	PROVIDE NEW MAIN GROUND BAR NEXT TO PANEL MDP. SEE GROUNDING DIAGRAM.
3	REPOWER ROLL UP DOOR FROM NEW PANEL. SEE PANEL SCHEDULES. INTERLOCK EXISTING DOOR WITH NEW AUTOMATIC DOOR CONTROL SYSTEM. SEE DOORHOIST INTERFACE SCHEMATIC. DISPATCH SIGNAL SHALL ACTIVATE AUTOMATIC DOOR OPEN/CLOSE SEQUENCE.
4	POWER FOR GAS OVEN/RANGE AND HOOD VENT.



POWER NEW WORK PLAN

1/8" = 1'-0"

0 4' 8' 16'

CITY OF CRESTVIEW, FLORIDA
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No.	Description	Date

ELECTRICAL NEW WORK PLAN

Date	12/19/2025
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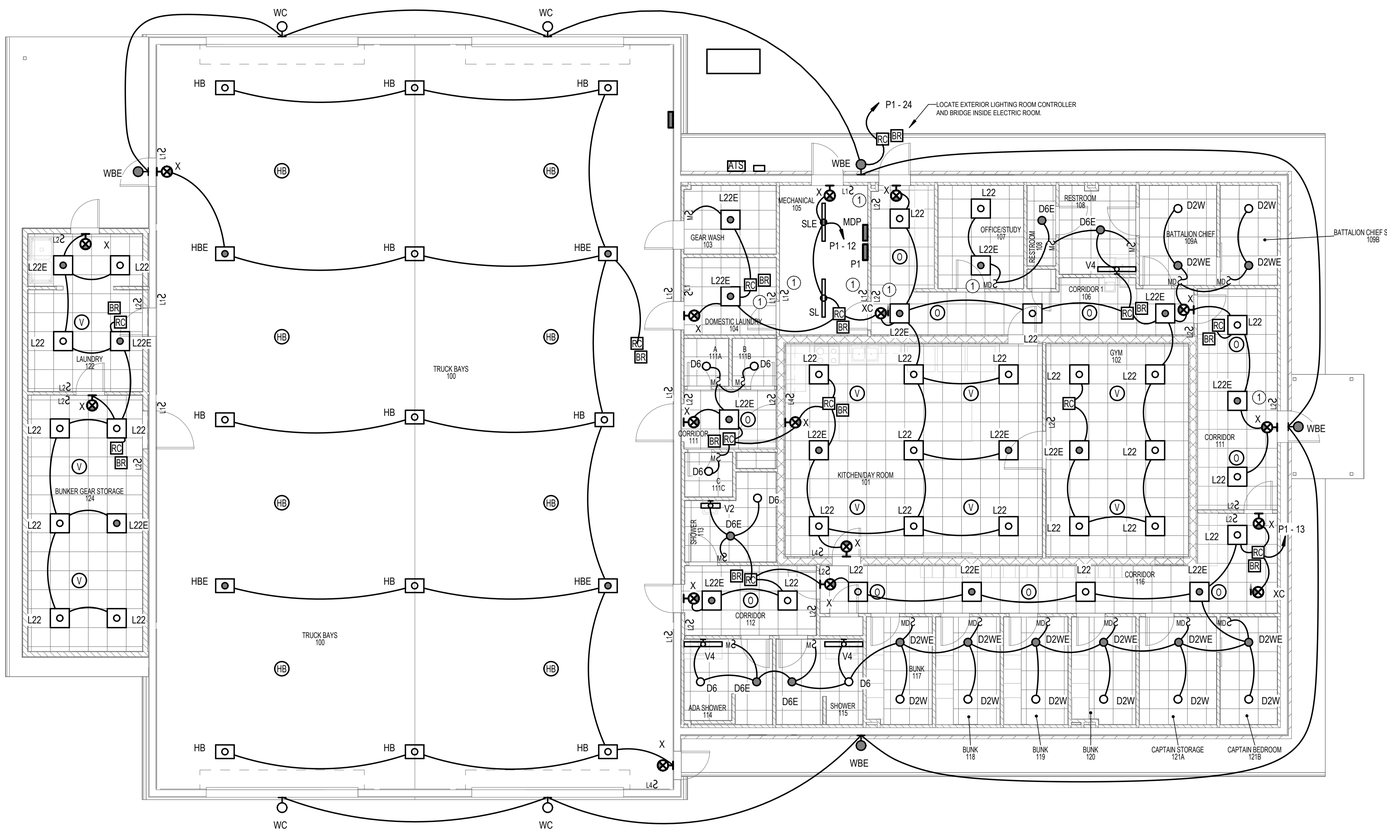
KEYNOTES

1 PROVIDE AND INSTALL NEW LIGHTING SWITCH, COVER PLATE, AND ASSOCIATED CONDUCTORS. REUSE EXISTING RECESSED BOX AND CONCEALED CONDUIT WHERE FEASIBLE. PROVIDE NEW CONDUCTORS AND CONDUIT AS REQUIRED.



LIGHTING NEW WORK PLAN

1/8" = 1'-0"

0 4' 8' 16'

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LIGHTING NEW WORK PLAN

Date	12/19/2025
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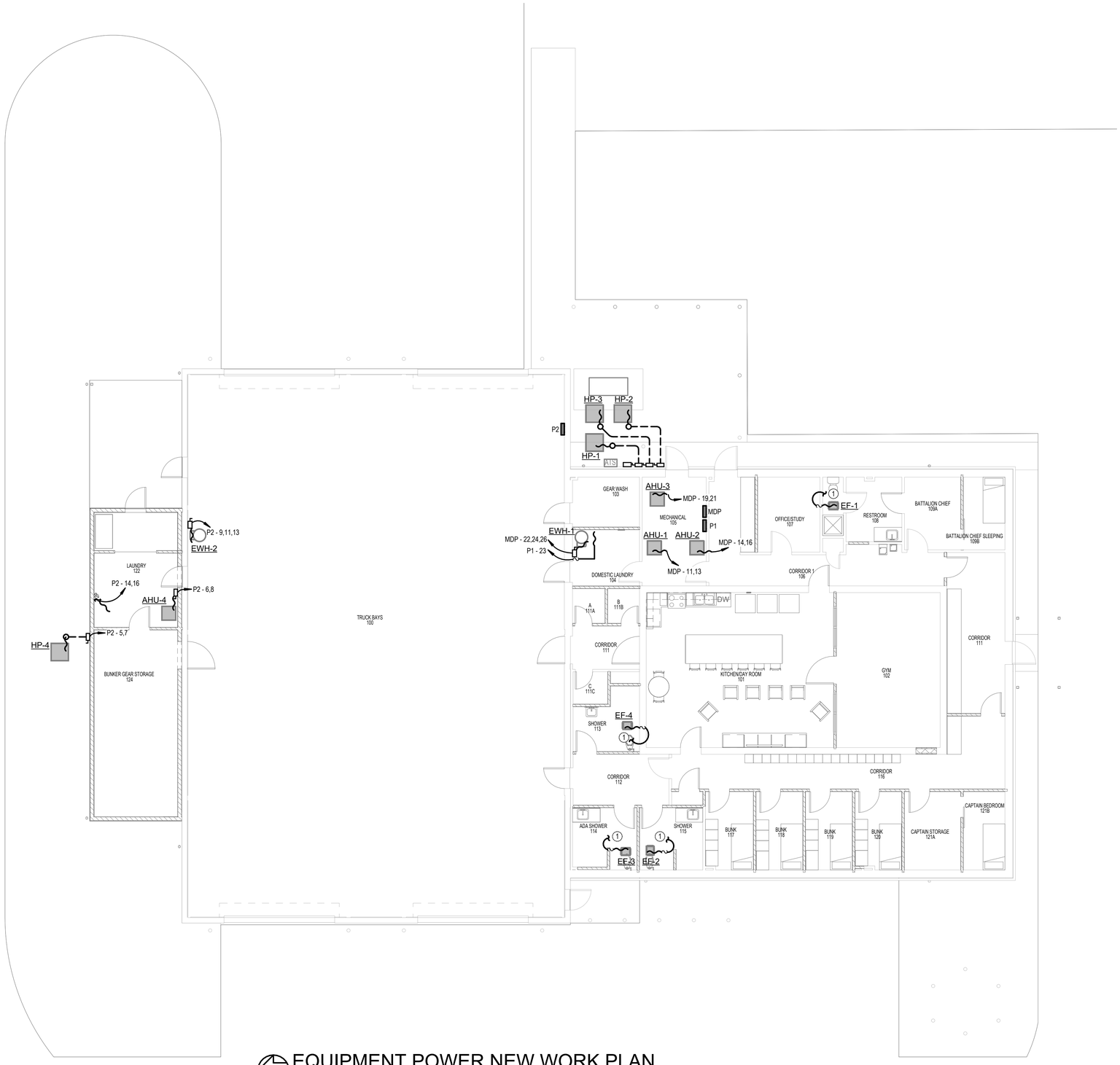
E202



EQUIPMENT POWER NEW WORK PLAN

1/8" = 1'-0"

0 4' 8' 16'

KEYNOTES

1	INTERLOCK EXHAUST FAN WITH LIGHTING CIRCUIT IN SAME ROOM.

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No.	Description	Date

MECHANICAL COORDINATION PLAN

Date	12/19/2025
Drawn By	LR
Checked By	KS

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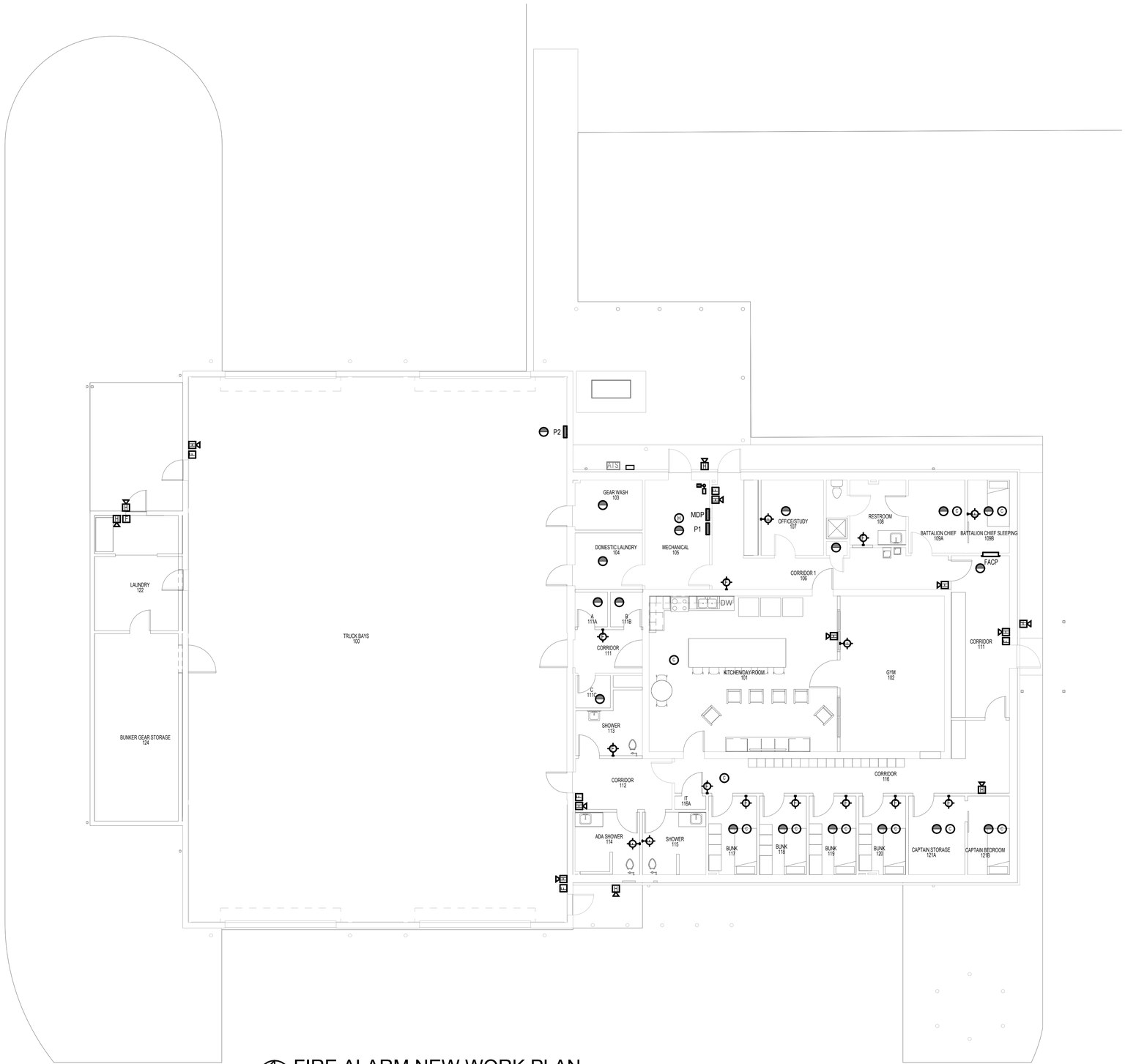
25106
Job No.



FIRE ALARM NEW WORK PLAN

1/8" = 1'-0"

0 4' 8' 16'

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
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No.	Description	Date

FIRE ALARM
NEW WORK
PLAN

Date	12/19/2025
Drawn By	LR
Checked By	KS

E204

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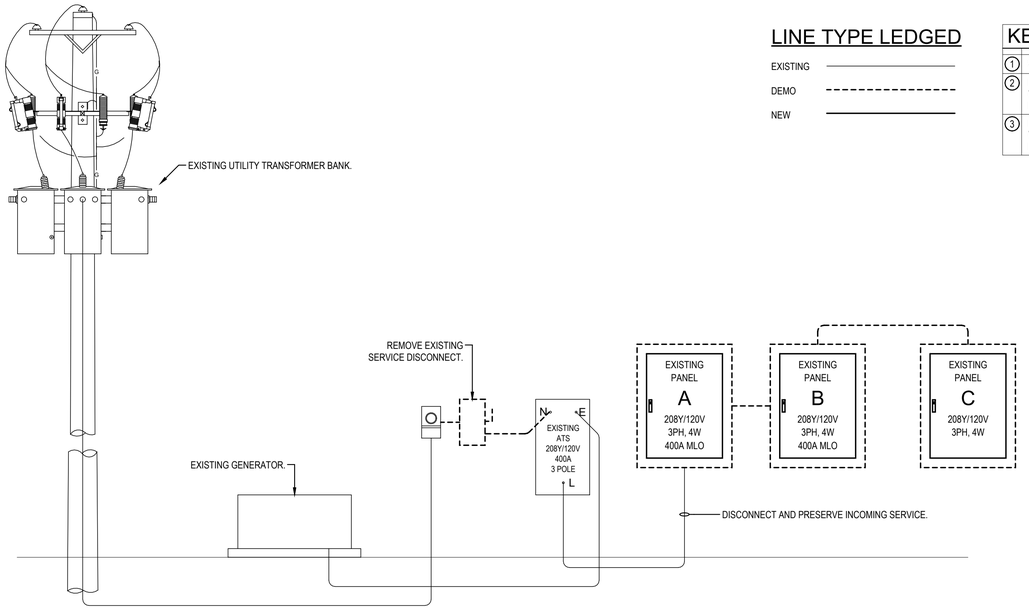


DEMO POWER RISER DIAGRAM

NTS

LINE TYPE LEDGED

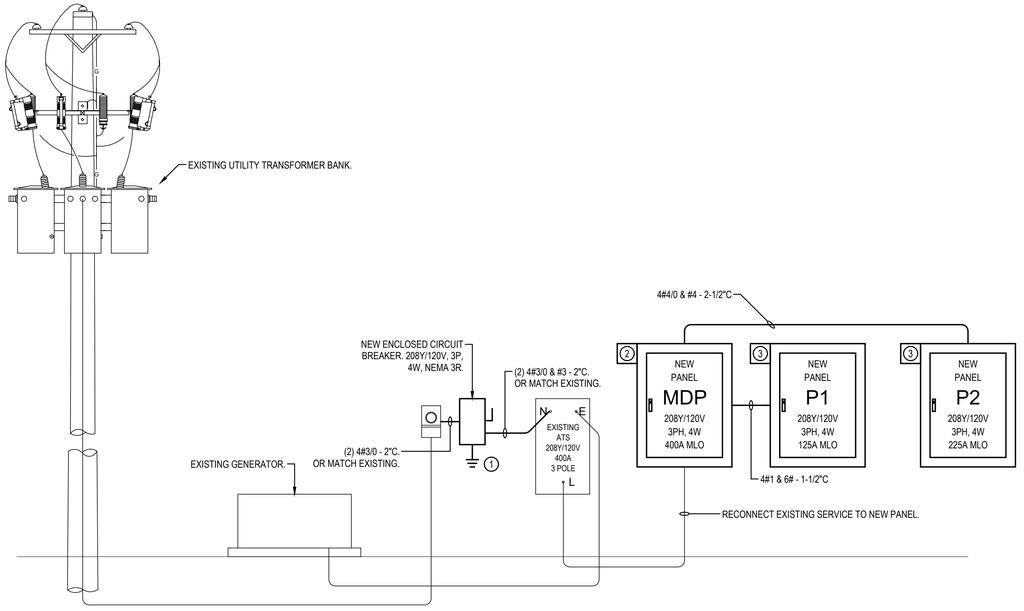
EXISTING

DEMO

NEW

KEYNOTES

1	SEE GROUNDING DIAGRAM.
2	INSTALL SURGE SUPPRESSOR IN BREAKER POSITION NEAREST NEUTRAL BAR WITH 4 #10, 1 #10 GND, IN 3/4" C; LEAD LENGTH SHALL NOT EXCEED UL 1449 4TH EDITION TEST OF 14" - REFER TO SPECS. PROVIDE INTERNAL 30A FUSING.
3	INSTALL SURGE SUPPRESSOR IN BREAKER POSITION NEAREST NEUTRAL BAR WITH 4 #10, 1 #10 GND, IN 3/4" C; LEAD LENGTH SHALL NOT EXCEED UL 1449 4TH EDITION TEST OF 14" - REFER TO SPECS. PROVIDE INTERNAL 30A FUSING.



NEW POWER RISER DIAGRAM

NTS

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FIRE STATION 3

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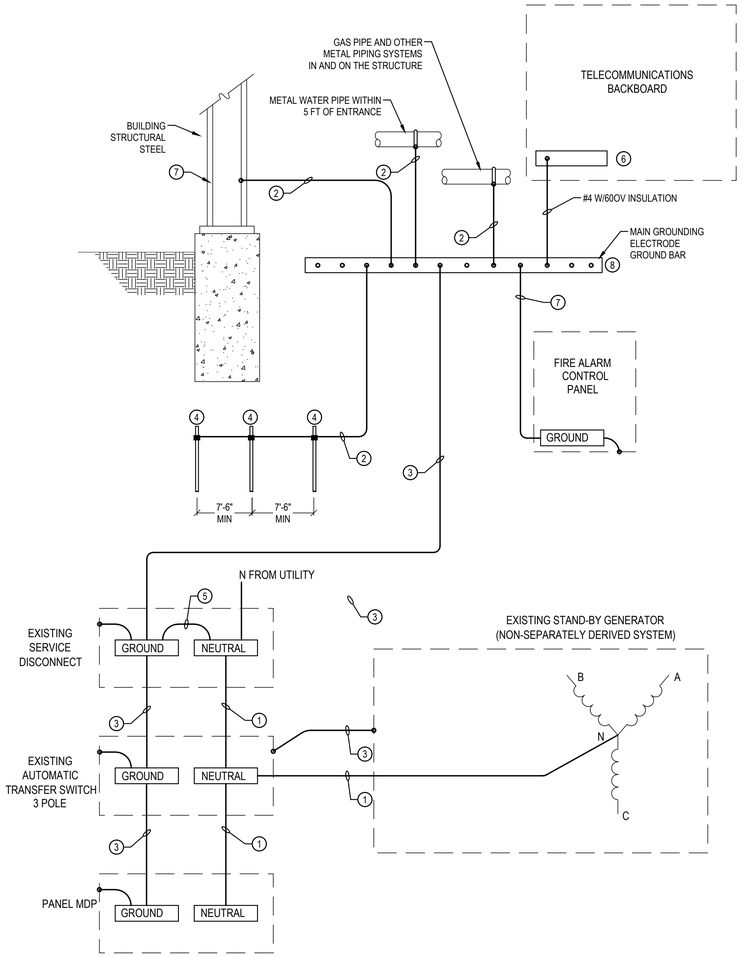
No.	Description	Date

POWER RISER DIAGRAM

Date	12/19/2025
Drawn By	LR
Checked By	KS

E301



GROUNDING SYSTEM DIAGRAM
NTS

BONDING NOTE

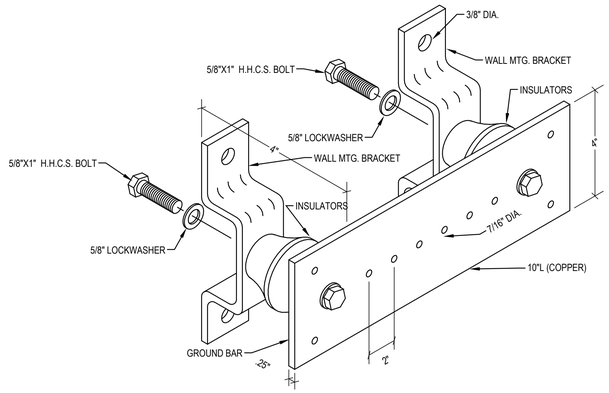
THIS IS A TYPICAL DIAGRAM OF THE BONDING REQUIREMENTS. THIS DIAGRAM IS NOT MEANT TO REPRESENT ACTUAL QUANTITIES, LOCATIONS, OR PHYSICAL LENGTHS. CONTRACTOR SHALL VERIFY EXISTING BONDING CONDITIONS INSIDE RENOVATED BUILDING. PROVIDE BONDING TO ALL REQUIRED PARTS AS SHOWN IN THE DIAGRAM.

GENERAL NOTES

1.	BOND HOT AND COLD WATER PIPING SYSTEMS.
2.	CONDUCTOR SIZES SHOWN ARE MINIMUM AND MAY BE LARGER THAN THE MINIMUM SIZES REQUIRED BY NEC.
3.	INSTALL GROUNDING CONNECTIONS TO BUILDING STRUCTURE AND WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
4.	INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC SERVICE ENTRANCE CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE.
5.	INSTALL AN INSULATED THROAT GROUNDING BUSHING ON EACH METALLIC FEEDER CONDUIT. BOND TO GROUND BUS USING CONDUCTOR THAT IS SIZED BASED ON NEC TABLE 250-122 USING THE FEEDER CIRCUIT OVERCURRENT DEVICE SIZE OR THE SEPARATELY DERIVED SYSTEM OVERCURRENT DEVICE SIZE.

KEYNOTES

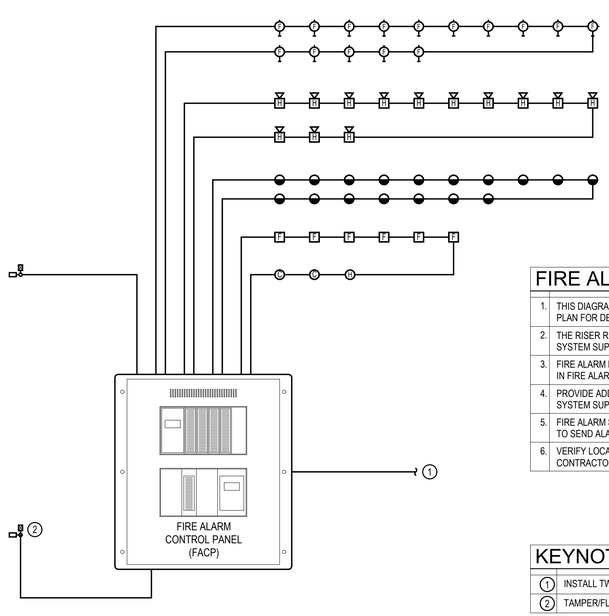
1	INSTALL GROUNDED (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUNDED CONDUCTOR.
2	INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN NO 4.
3	INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250-122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
4	10 FOOT MINIMUM X 3/4" DIAMETER COPPER CLAD STEEL SECTIONAL DRIVEN GROUND ROD.
5	INSTALL BONDING JUMPER WIRE THAT IS SIZED BASED ON NEC TABLE 250-66 OR 250.28(D)(1) USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE PHASE CONDUCTOR SIZE.
6	INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED #4 COPPER CABLE AND COMPRESSION SPADE LUGS.
7	FIRE ALARM CONTROL PANEL GROUND - #6 COPPER CONDUCTOR.
8	INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT GROUNDING. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND ELECTRODE CONDUCTOR USING IRREVERSIBLE CONNECTORS OR EXOTHERMIC WELDS. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR



GROUND BAR NOTES

1.	INSTALL ONE BAR AT EACH COMMUNICATIONS ROOM.
2.	ROUTE 1#4 BARE CU IN 1"CONDUIT FROM GROUND BAR TO BUILDING ELECTRICAL SERVICE ENTRANCE GROUND.
3.	CONNECT BARS WITH 1#6 BARE CU IN 1" CONDUIT.

INSULATED GROUNDING BAR DETAIL
NTS



FIRE ALARM RISER GENERAL NOTES

1.	THIS DIAGRAM IS NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR DEVICE QUANTITIES AND LOCATIONS.
2.	THE RISER REPRESENTS A TYPICAL SYSTEM AND IS NOT INTENDED FOR INSTALLATION, SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS.
3.	FIRE ALARM LOW VOLTAGE SOURCE AND BATTERY STANDBY SHALL ENERGIZE ALL ITEMS IN FIRE ALARM SYSTEM THAT REQUIRE POWER.
4.	PROVIDE ADDITIONAL MONITOR AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.
5.	FIRE ALARM SYSTEM SHALL HAVE U/L APPROVED DIGITAL ALARM DIALER/COMMUNICATOR TO SEND ALARM SIGNAL TO MONITORING SERVICE.
6.	VERIFY LOCATION AND QUANTITIES OF FLOW AND TAMPER SWITCHES WITH SPRINKLER CONTRACTOR.

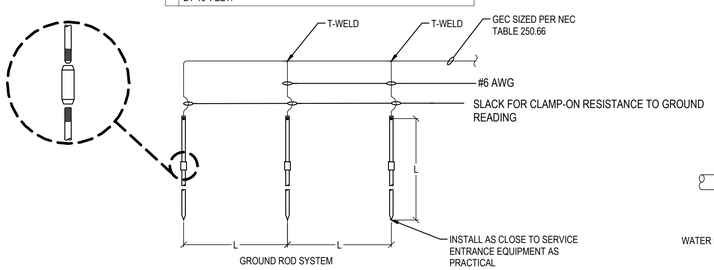
KEYNOTES

1	INSTALL TWO DEDICATED ANALOG OUTSIDE TELEPHONE LINES.
2	TAMPER/FLOW SWITCH AT BACKFLOW PREVENTER.

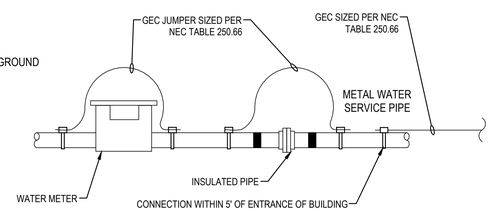
FIRE ALARM RISER
NTS

NOTES

1	PROVIDE COPPER-CLAD, SECTIONAL TYPE; 3 SETS OF TWO 3/4 INCH BY 10' FEET.



GROUND ROD INSTALLATION DETAIL
NTS



METAL WATER PIPE DETAIL
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FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

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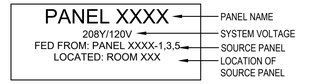
No.	Description	Date

GROUNDING DIAGRAM AND FIRE ALARM RISER

Date 12/19/2025
Drawn By LR
Checked By KS

E302

NAMEPLATE NOTES	
1.	NAMEPLATE MUST INDICATE DISCONNECT PURPOSE.
2.	NAMEPLATE MUST INDICATE SOURCE AND SOURCE LOCATION.
3.	PROVIDE LABEL FOR ALL PANELS FED FROM A FEEDER
4.	NAME - 1/2" HIGH LETTERS
5.	MESSAGE/BODY - 1/4" HIGH LETTERS
6.	NORMAL POWER - BLACK LETTERS ON WHITE PANEL
7.	EMERGENCY POWER - WHITE LETTERS ON RED PANEL



EQUIPMENT NAMEPLATES
NTS

NOTES	
1.	PROVIDE LABEL IF NOT PROVIDED BY MANUFACTURER.
2.	3/8" WHITE LETTERS ON BLACK PANEL

SERVICE DISCONNECT

SERVICE DISCONNECT LABEL
NTS

NOTES	
1.	WHERE SYSTEM CONTAINS EMERGENCY GENERATOR WITH ATS THAT DOES NOT SWITCH UNGROUNDED CONDUCTOR, INSTALL LABEL ON NORMAL POWER SOURCE FEEDING ATS.
2.	SIGNAL WORD PANEL SHALL HAVE BLACK LETTERS ON ORANGE PANEL. LETTERS SHALL BE 50% LARGER THAN MESSAGE PANEL LETTERS
3.	MESSAGE PANEL SHALL BE BLACK LETTERS ON WHITE PANEL.

⚠ WARNING

SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE(S) IS ENERGIZED.

3 POLE EMERGENCY ATS LABEL
NTS

NOTES	
1.	PROVIDE LABEL IF NOT PROVIDED BY MANUFACTURER. PROVIDE LABEL AT EACH PIECE OF EQUIPMENT.
2.	PROVIDE ARC FLASH LABEL FOR EACH PIECE OF NEW EQUIPMENT AS REQUIRED BY NEC 110.16(A)

⚠ WARNING

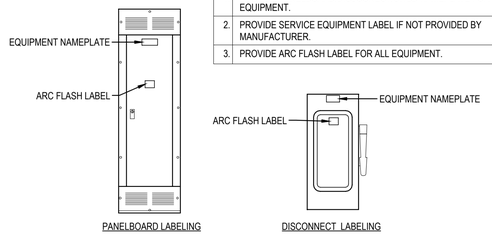
Arc Flash Hazard
Appropriate PPE Required.
Failure to Comply Can Result in Death or Injury.
Refer to NFPA 70E.

SIGNAL WORD PANEL. BLACK LETTERS ON ORANGE PANEL. 50% TALLER THAN MESSAGE PANEL. ALL CAPS SAN SERIF FONT.

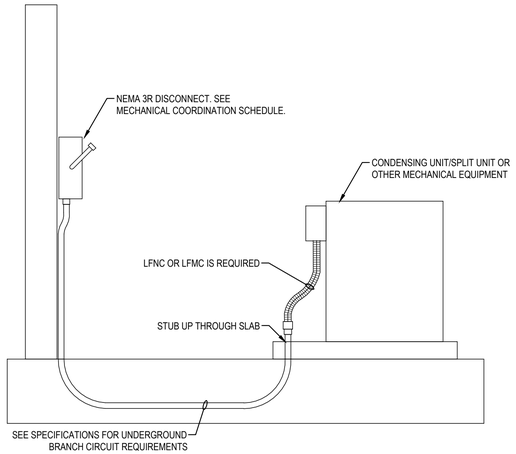
MESSAGE PANEL. BLACK LETTERS ON WHITE PANEL.

ARC FLASH LABEL DETAIL
NTS

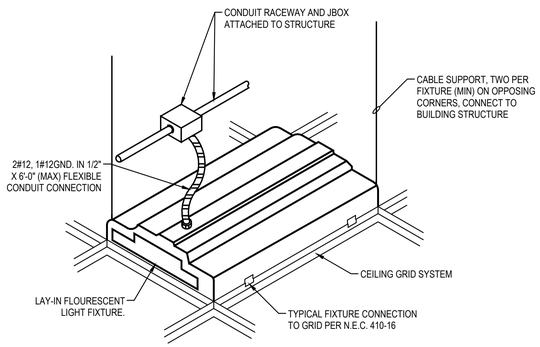
NOTES	
1.	PROVIDE PANELBOARD/DISSCONECT/SWBD NAMEPLATE FOR EQUIPMENT.
2.	PROVIDE SERVICE EQUIPMENT LABEL IF NOT PROVIDED BY MANUFACTURER.
3.	PROVIDE ARC FLASH LABEL FOR ALL EQUIPMENT.



EQUIPMENT LABELING
NTS

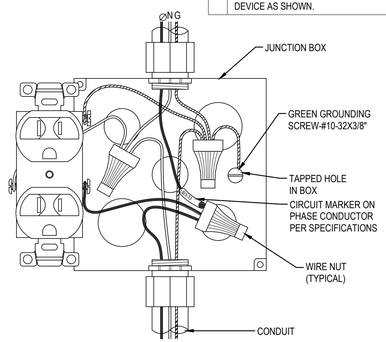


OUTDOOR EQUIPMENT CONNECTION
NTS



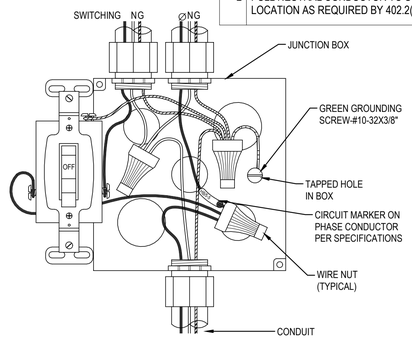
LAY-IN FIXTURE CABLE SUPPORT
NTS

NOTES	
1.	WIRING DEVICES SHALL NOT BE USED FOR SPLICING. USE A PIGTAIL TO CONNECT EACH DEVICE AS SHOWN.



TYPICAL RECEPTACLE WIRING
NTS

NOTES	
1	WIRING DEVICES SHALL NOT BE USED FOR SPLICING. USE A PIGTAIL TO CONNECT EACH DEVICE AS SHOWN.
2	PULL NEUTRAL CONDUCTOR TO SWITCH LOCATION AS REQUIRED BY 402.2(C)



TYPICAL SWITCH WIRING
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25106
Job No.

FIRE STATION 3

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No.	Description	Date

ELECTRICAL DETAILS

Date	12/19/2025
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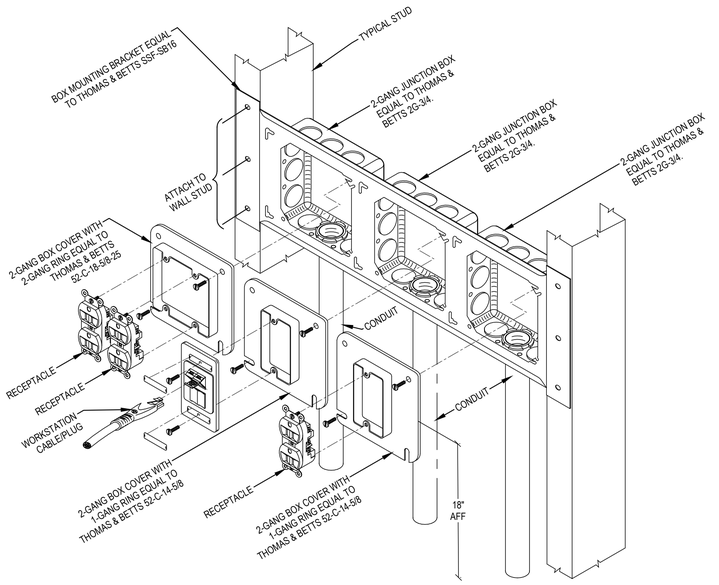
E401

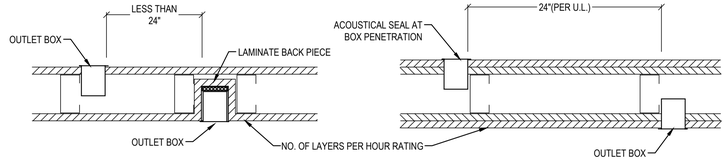


TYPICAL POWER/COMMUNICATIONS OUTLET INSTALL

NTS

MOUNTING NOTES

1. FOR ONE HOUR OR TWO HOUR FIRE OR SMOKE WALL MAXIMUM 16 SQUARE INCHES OPENINGS PER 100 SQUARE FEET OF WALL



FIVE SIDED ELECTRICAL BOX

ADJACENT ELECTRICAL BOXES

ELECTRICAL BOX INSTALL

NTS

MAXIMUM GAP 1/8"
NON-SMOKE ONE HOUR OR LESS
NO TREATMENT. SMOKE WALLS
SURFACE BEAD OF USG ACOUSTCL
TREATMENT.

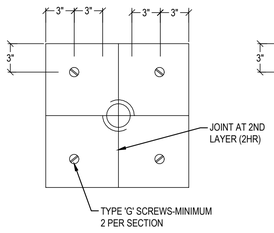
MAXIMUM GAP 1/4"
FILL WITH JOINT COMPOUND
ONE HOUR OR SMOKE WALLS

MAXIMUM GAP 1/2"
FILL WITH USG ACOUSTICAL
SEALANT REF CEG 1-25-85.
ONE HOUR OR SMOKE WALLS

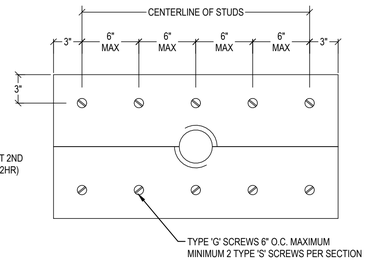
SMALL DIAMETER GAPS

IN ONE HOUR WALLS

NOTE:
BUTTER BACK SIDE OF PATCH
WITH JOINT COMPOUND-DO NOT
STRIKE OFF EXCESS.
LEAVE SCREWS EXPOSED



OPENINGS UP TO 3" DIA.

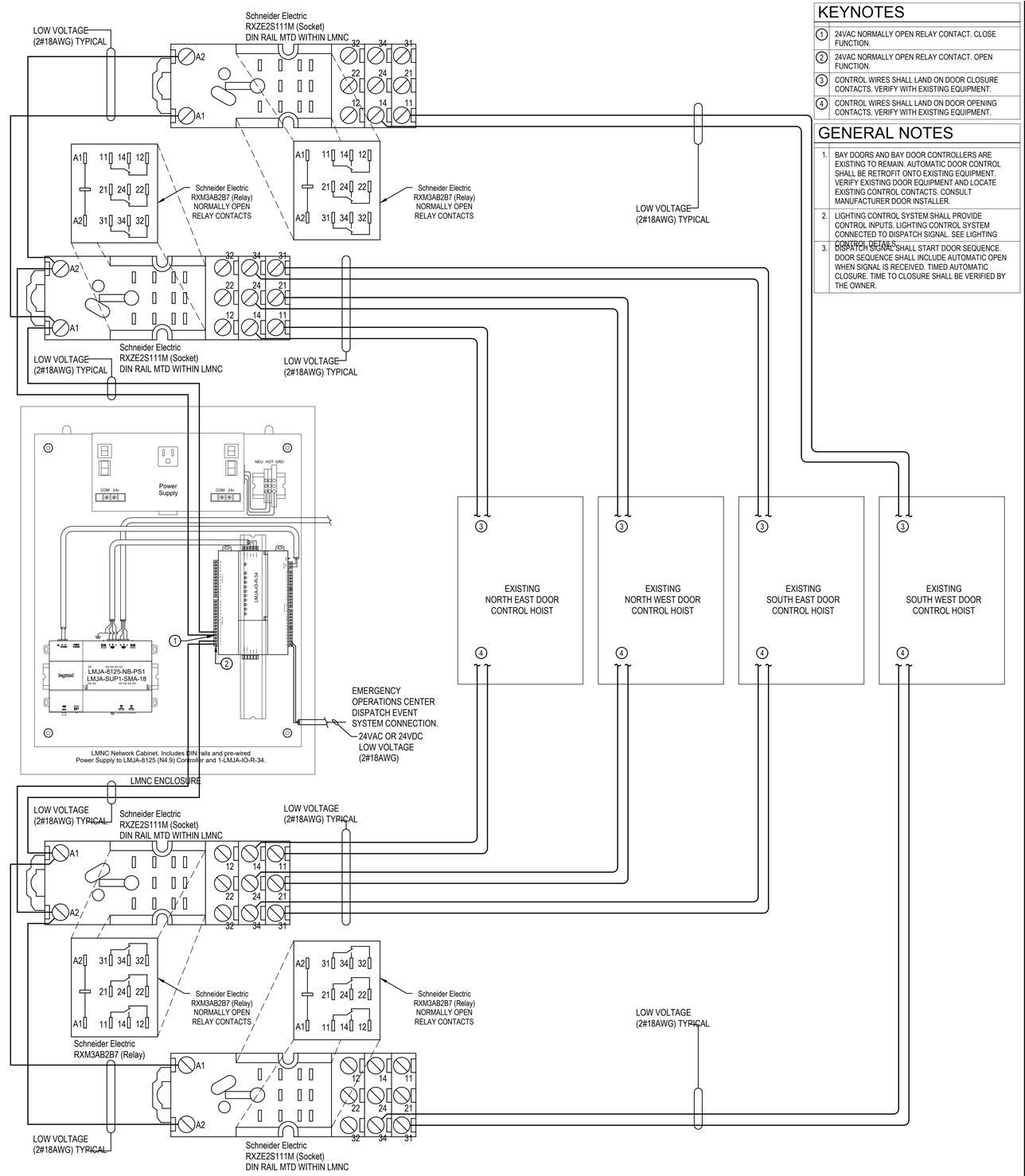


OPENINGS OVER 3" DIA.

WALL PENETRATIONS

NTS

-APPLIES TO ALL CORRIDOR, SMOKE AND FIRE RATED WALLS



DOORHOIST INTERFACE SCHEMATIC

NOT TO SCALE

KEYNOTES

1. 24VAC NORMALLY OPEN RELAY CONTACT. CLOSE FUNCTION.
2. 24VAC NORMALLY OPEN RELAY CONTACT. OPEN FUNCTION.
3. CONTROL WIRES SHALL LAND ON DOOR CLOSURE CONTACTS. VERIFY WITH EXISTING EQUIPMENT.
4. CONTROL WIRES SHALL LAND ON DOOR OPENING CONTACTS. VERIFY WITH EXISTING EQUIPMENT.

GENERAL NOTES

1. BAY DOORS AND BAY DOOR CONTROLLERS ARE EXISTING TO REMAIN. AUTOMATIC DOOR CONTROL SHALL BE RETROFIT ONTO EXISTING EQUIPMENT. VERIFY EXISTING DOOR EQUIPMENT AND LOCATE EXISTING CONTROL CONTACTS. CONSULT MANUFACTURER DOOR INSTALLER.
2. LIGHTING CONTROL SYSTEM SHALL PROVIDE CONTROL INPUTS. LIGHTING CONTROL SYSTEM CONNECTED TO DISPATCH SIGNAL. SEE LIGHTING CONTROL DETAILS.
3. DISPATCH SIGNAL SHALL START DOOR SEQUENCE. DOOR SEQUENCE SHALL INCLUDE AUTOMATIC OPEN WHEN SIGNAL IS RECEIVED. TIMED AUTOMATIC CLOSURE. TIME TO CLOSURE SHALL BE VERIFIED BY THE OWNER.

FIRE STATION 3

585 BROOKMEADE DR,
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SEAL

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Date	12/19/2025
Drawn By	LR
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E402

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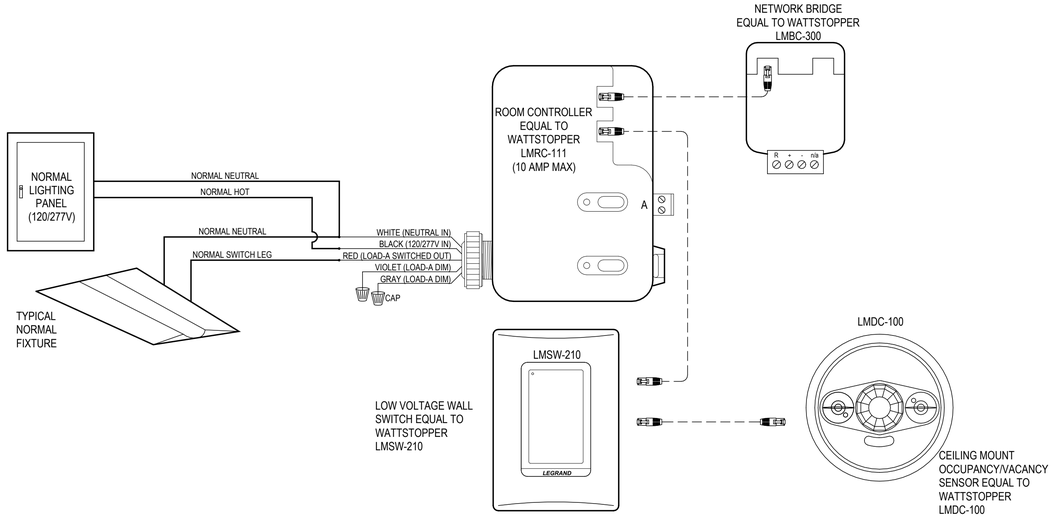
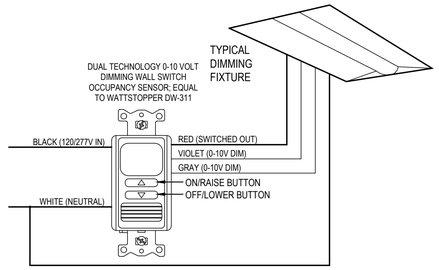
Job No.



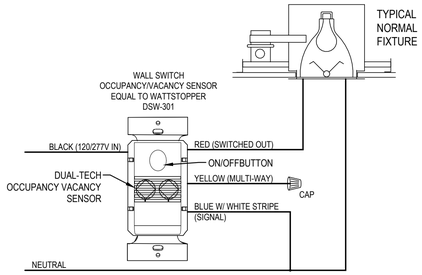
LIGHTING CONTROL DETAIL #1

NTS



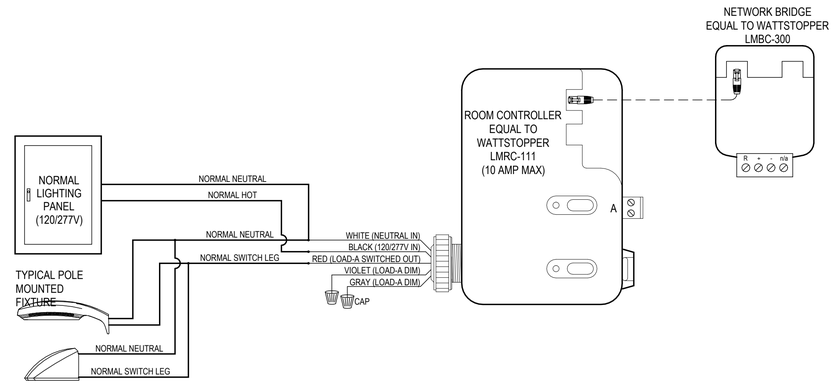
LIGHTING CONTROL DETAIL #2

NTS



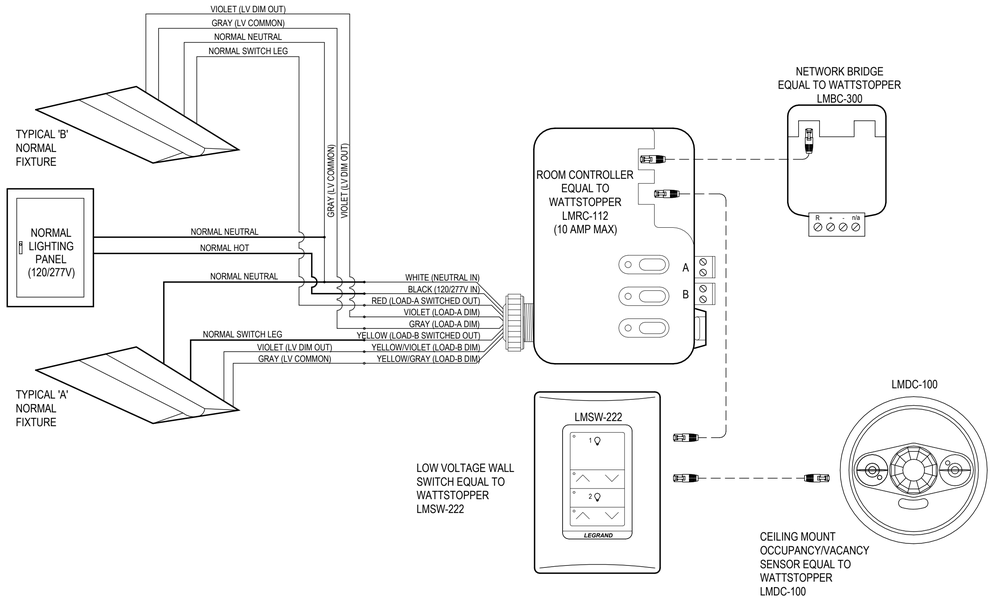
LIGHTING CONTROL DETAIL #3

NTS

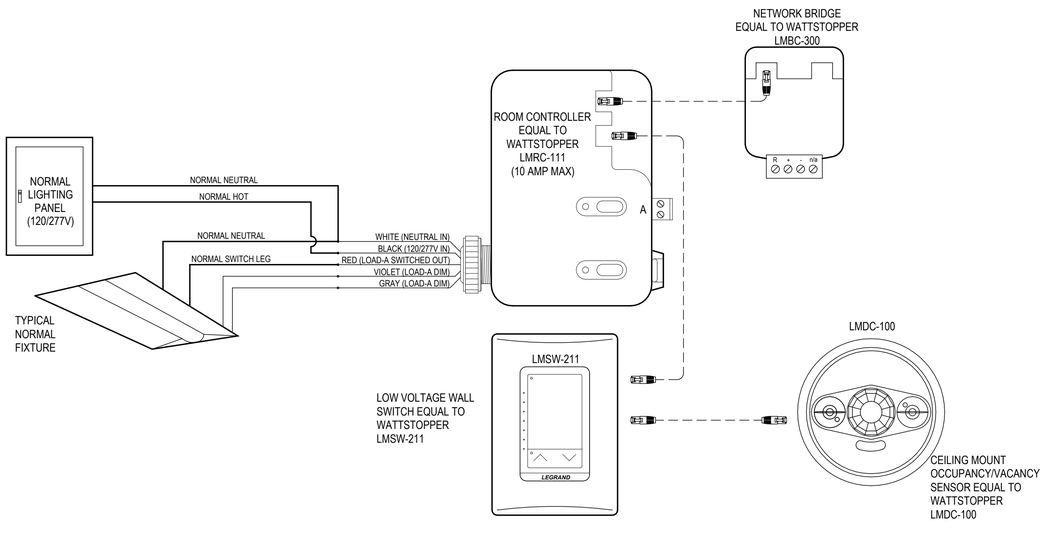


LIGHTING CONTROL DETAIL #4

NTS



LIGHTING CONTROL DETAIL #5



LIGHTING CONTROL DETAIL #6

NTS

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No.	Description	Date

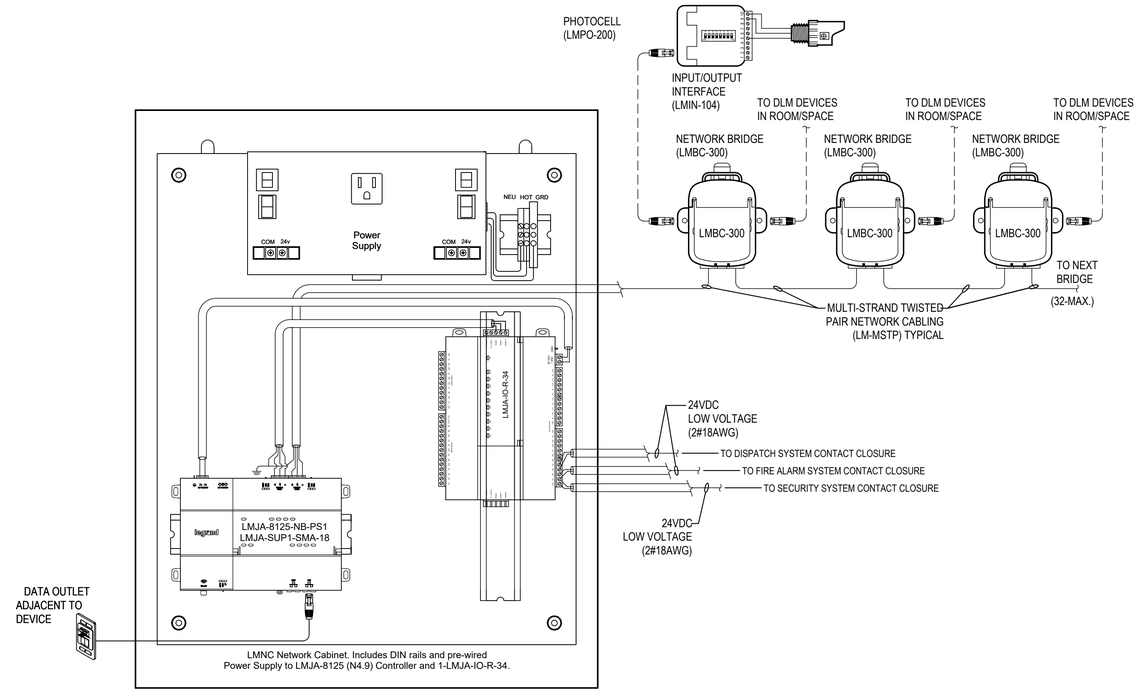
LIGHTING
CONTROL
DETAILS

Date	12/19/2025
Drawn By	LR
Checked By	KS

E411

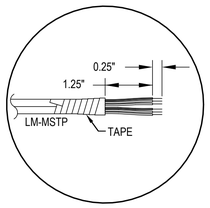
LIGHTING CONTROL GENERAL NOTES

1.	THE DIAGRAMS ARE NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR ESTIMATED DEVICE QUANTITIES AND LOCATIONS.
2.	THE LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS WATTSTOPPER DLM PRODUCTS.
3.	THE LOCAL DEVICE INTERCONNECTIONS FOR ALL LIGHTING CONTROL DEVICES SHALL BE OF THE TOPOLOGY FREE TYPE.
4.	COLORS FOR ALL DEVICES AND DEVICE COVERS SHALL BE SELECTED BY THE ARCHITECT.
5.	ALL DATA LINE SWITCHES SHALL INCLUDE CUSTOM ENGRAVED LABEL INDICATING FUNCTION OF SWITCH. COORDINATE EXACT LABEL DESCRIPTIONS WITH OWNER PRIOR TO INSTALLATION.
6.	PROVIDE ADDITIONAL POWER AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.
7.	THE DIAGRAMS REPRESENT A TYPICAL SYSTEM AND ARE NOT INTENDED FOR INSTALLATION, SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS.
8.	E.C. SHALL COORDINATE FIELD PROGRAMMING OF LIGHTING CONTROL SYSTEM WITH SYSTEM PROGRAMMER, SPECIFYING ENGINEER, AND OWNER TO ENSURE PROPER OPERATION AND TIME SCHEDULES.
9.	ALL EMERGENCY AND EXIT LIGHTING CIRCUITS SHALL BE CONNECTED TO CONTINUOUS POWER SOURCE AHEAD OF RELAY PANEL OR INDIVIDUAL RELAY COMPONENTS.
10.	INSTALL ALL CEILING SENSORS MINIMUM OF 6FT CLEAR OF DUCT REGISTERS. PROVIDE 6FT. OF SLACK CONDUCTOR TO ALLOW FOR FIELD ADJUSTMENT.
11.	THE LIGHTING CONTROL AND EMERGENCY LIGHTING SYSTEMS SHALL BE CAPABLE OF BEING ACCESSED VIA THE LOCAL AREA NETWORK.
12.	PROGRAMMER / COMMISSIONING AGENT SHALL BE CERTIFIED BY THE EQUIPMENT MANUFACTURER ON THE SYSTEM INSTALLED.
13.	THE MANUFACTURER CERTIFIED TECHNICIAN WILL MEET ONSITE WITH THE ELECTRICAL CONTRACTORS TO COORDINATE INSTALLATION DETAILS, REVIEW BEST PRACTICES, AND DISCUSS PROJECT SPECIFIC CHALLENGES; PRIOR TO THE INSTALLATION BEING STARTED, ENABLING THE CONTRACTORS TO WORK WITH THE TECHNICIAN TO PREPARE AND MAKE CHANGES UP FRONT.
14.	THE MANUFACTURER'S LIGHTING SYSTEMS TEAM SHALL WORK ONSITE AFTER FIXTURE AND CONTROLS INSTALLATION IS COMPLETED. THE MANUFACTURER'S AGENT IS TO VERIFY THE PROJECT IS REVIEWED AND CHECKED FOR PROPER WIRING, INSTALLATION AND FUNCTIONALITY OF THE SYSTEM AS A WHOLE. ANY PROBLEMS SHALL BE ADDRESSED AND RESOLVED WITH THE ONSITE CONTRACTORS.
15.	MANUFACTURER'S TECHNICIANS SHALL MAP OUT THE FIXTURE LOCATIONS AND ADDRESSES WITHIN THE LIGHTING CONTROL SOFTWARE. ASTRONOMIC TIMECLOCK EVENTS, SCENES, AND SCHEDULES ARE PROGRAMMED ACCORDING TO A PRE-DEFINED SCRIPT. THESE EVENTS, SCENES, AND SCHEDULES ARE TESTED AND FINALIZED FOR FINAL APPROVAL BY THE PROJECT'S OWNERSHIP.
16.	MANUFACTURER'S TECHNICIANS SHALL PROVIDE TRAINING FOR SYSTEM USERS AND THE SYSTEM MAINTENANCE TEAM. THE DETAILS OF THE TECHNOLOGY SHALL BE COVERED FROM A MAINTENANCE AND TROUBLESHOOTING POINT OF VIEW. THIS COVERS THE LIGHTING CONTROL SYSTEM AND ITS CORE FUNCTIONALITY, WITH A FOCUS ON HOW TO EDIT EXISTING SCENES AND ASTRONOMIC LIGHTING EVENTS.
17.	THE MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE IN-DEPTH TRAINING TO THE END USER ON MANAGING THE SPECIFIC CONTROL SYSTEM, GIVING THEM THE TOOLS AND KNOWLEDGE TO OPERATE THEIR SYSTEM.

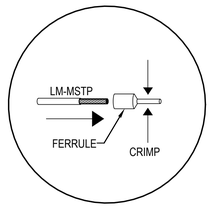


OVERALL LIGHTING CONTROL RISER

NTS



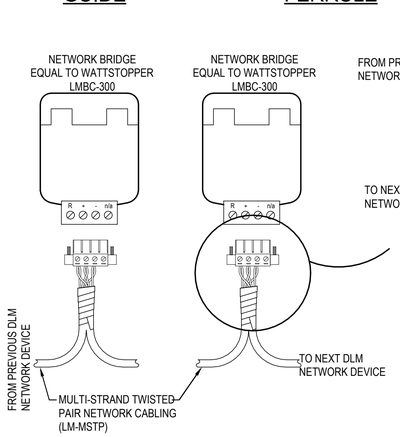
INSULATION STRIP GUIDE



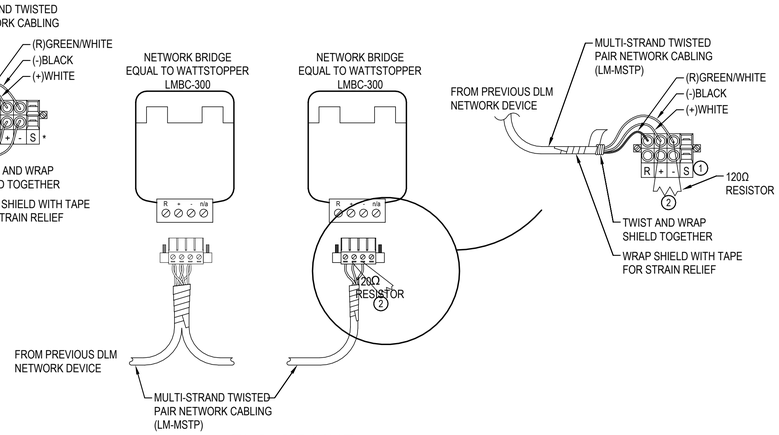
INSULATED WIRE FERRULE

KEYNOTES

(1)	NO CONNECTION ON 'S' TERMINAL
(2)	120Ω RESISTOR (INCLUDED) IS REQUIRED FOR END OF LINE TERMINATION.



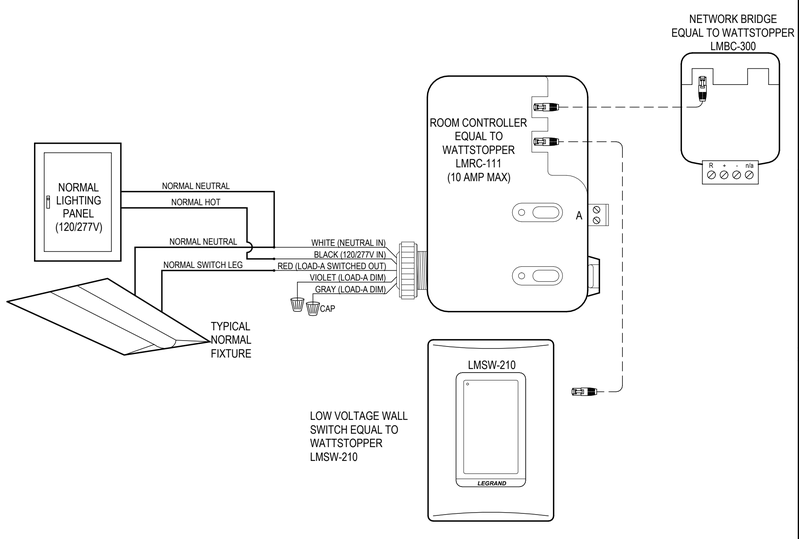
INTERCONNECTION DIAGRAM



END OF LINE DIAGRAM

TYPICAL BRIDGE DEVICE CONNECTION DETAILS

NTS



LIGHTING CONTROL DETAIL #7

NTS

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25106
Job No.

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

LIGHTING CONTROL DETAILS

Date	12/19/2025
Drawn By	LR
Checked By	KS

E412

MDP

MAIN 400 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS

A.I.C. RATING 22,000 A
NEMA Type 1

LOCATION MECHANICAL 105
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1				8528 VA	16326 VA								2
3	P1	125 A	3			11220 VA	12714 VA			3	225 A	P2	4
5								5724 VA	14654 VA				6
7	DRYER	30 A	2	2500 VA	3600 VA								8
9						2500 VA	3600 VA			3	60 A	LIFT STATION (NOTE 1.)	10
11	AHU-1	50 A	2					4047 VA	3600 VA				12
13				4047 VA	4047 VA					2	50 A	AHU-2	14
15	HP-1	30 A	2			1533 VA	4047 VA						16
17								1533 VA	1148 VA	2	25 A	HP-2	18
19	AHU-3	50 A	2	3891 VA	1148 VA								20
21						3891 VA	4100 VA						22
23	HP-3	20 A	2					1013 VA	4100 VA	3	45 A	EWH-1	24
25				1013 VA	4100 VA								26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA								38
39	SPARE	20 A	1			0 VA	0 VA			3	60 A	SURGE PROTECTOR	40
41	SPARE	20 A	1					0 VA	0 VA				42
		POWER/PHASE		49200 VA		43605 VA		35819 VA					
		AMPS/PHASE		420 A		373 A		298 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
Lighting - General	516 VA	100.00%	516 VA	**CONNECTED POWER**	128623 VA
Other	54081 VA	100.00%	54081 VA	**DEMAND POWER**	118463 VA
Power	25634 VA	100.00%	25634 VA	**CONNECTED AMPS**	357 A
Spare	14300 VA	100.00%	14300 VA	**DEMAND AMPS**	329 A
Lighting	3772 VA	100.00%	3772 VA		
Receptacle	30320 VA	66.49%	20160 VA		

NOTES:
1. REFEED EXISTING CIRCUIT FROM NEW PANEL/BREAKER.

P1

MAIN 125 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS

A.I.C. RATING 10,000 A
NEMA Type 1

LOCATION MECHANICAL 105
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - RM 121	20 A	1	1260 VA	1440 VA					1	20 A	REC - RM 119, 120	2
3	REC - RM 117, 118	20 A	1			1440 VA	1440 VA			1	20 A	REC - RM 108, 109	4
5	REC - RM 103, 105, 111	20 A	1					180 VA	180 VA	1	20 A	REC - EXTERIOR	6
7	REC - RM 106, 107	20 A	1	1440 VA	1260 VA					1	20 A	REC - RM 111	8
9	REC - RM 102	20 A	1			1260 VA	1080 VA			1	20 A	REC - RM 116	10
11	REC - RM 111C,112,113,114,115	20 A	1					1620 VA	1204 VA	1	20 A	LTG - NORTH	12
13	LTG - SOUTH	20 A	1	728 VA	1500 VA					1	20 A	REC - REFRIGERATOR - LEFT	14
15	REC - REFRIGERATOR - CENTER	20 A	1			1500 VA	1500 VA			1	20 A	REC - REFRIGERATOR - RIGHT	16
17	REC - SAFE ROOM 110F	20 A	1					1440 VA	540 VA	1	20 A	REC - KITCHEN	18
19	REC - KITCHEN	20 A	1	360 VA	180 VA					1	20 A	GARBAGE DISPOSAL	20
21	REC - WASHER	20 A	1			1500 VA	1500 VA			1	20 A	DISHWASHER	22
23	CP-1	20 A	1					44 VA	516 VA	1	20 A	LTG - EXTERIOR	24
25	TELECOM RACK	20 A	1	180 VA	180 VA					1	20 A	SECURITY CONTROL PANEL	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA								38
39	SPARE	20 A	1			0 VA	0 VA			3	30 A	SURGE PROTECTOR	40
41	SPARE	20 A	1					0 VA	0 VA				42
		POWER/PHASE		8528 VA		11220 VA		5724 VA					
		AMPS/PHASE		75 A		97 A		48 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
Lighting - General	516 VA	100.00%	516 VA	**CONNECTED POWER**	25472 VA
Other	86 VA	100.00%	86 VA	**DEMAND POWER**	18982 VA
Power	0 VA	0.00%	0 VA	**CONNECTED AMPS**	71 A
Lighting	1890 VA	100.00%	1890 VA	**DEMAND AMPS**	53 A
Receptacle	22980 VA	71.76%	16490 VA		

NOTES:

P2

MAIN 225 A MLO
SYSTEM 208Y/120V 3P 4W
OPTIONS BOLT ON BREAKERS

A.I.C. RATING 10,000 A
NEMA Type 1

LOCATION TRUCK BAYS 100
MOUNTING Surface

LOAD PER PHASE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC - RM 122, 124	20 A	1	1260 VA	1080 VA					1	20 A	REC - TRUCK BAY	2
3	LTG - TRUCK BAY	20 A	1			1536 VA	346 VA			1	20 A	LTG - RM 122,124	4
5	HP-4	25 A	2					1148 VA	4006 VA	2	50 A	AHU-4	6
7				1148 VA	4006 VA								8
9	EWH-2	90 A	3			8000 VA	1500 VA			1	20 A	BAY DOOR POWER WEST (NOTE 1.)	10
11								8000 VA	1500 VA	1	20 A	BAY DOOR POWER EAST (NOTE 1.)	12
13				8000 VA	832 VA					2	15 A	EXTRACTOR	14
15	TRUCK BAY UNIT HEATERS (NOTE 1.)	20 A	1			500 VA	832 VA						16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA								38
39	SPARE	20 A	1			0 VA	0 VA			3	30 A	SURGE PROTECTOR	40
41	SPARE	20 A	1					0 VA	0 VA				42
		POWER/PHASE		16326 VA		12714 VA		14654 VA					
		AMPS/PHASE		139 A		106 A		125 A					

LOAD CLASS	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTALS	
Other	34307 VA	100.00%	34307 VA	**CONNECTED POWER**	43693 VA
Power	1664 VA	100.00%	1664 VA	**DEMAND POWER**	43693 VA
Spare	3500 VA	100.00%	3500 VA	**CONNECTED AMPS**	121 A
Lighting	1882 VA	100.00%	1882 VA	**DEMAND AMPS**	121 A
Receptacle	2340 VA	100.00%	2340 VA		

NOTES:
1. REFEED EXISTING CIRCUIT FROM NEW PANEL/BREAKER.

FIRE STATION 3
585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

PANEL SCHEDULES

Date 12/19/2025
Drawn By LR
Checked By KS

E501

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Caleb W. Leonard; FL PE No.91782

25106
Job No.

Lighting Fixture Schedule

Note: Per electrical specifications, required alternate fixtures shall be submitted to the engineer for prior approval a minimum of (10) ten business days prior to bid date. Any required alternate fixtures not submitted for prior approval will not be reviewed.

Luminaire Designation	Manufacturer	Catalog Number	Connected Voltage	Luminaire Load (va)	Lamping Source	Color Rendering Index (CRI)	Kelvin Temperature	Mounting	Comments	Prior Approved Equal Required
D2W	HE WILLIAMS	6DR-TL-L15-9DW-DIM1-UNV-L-W-OF-CS-N	120 V	24 VA	LED	>80	3000 K	RECESSED	6" DOWNLIGHT	NO
D2WE	HE WILLIAMS	6DR-TL-L15-9DW-DIM1-UNV-L-W-OF-CS-N-EM/7W	120 V	24 VA	LED	>80	3000 K	RECESSED	6" DOWNLIGHT; INTEGRAL EM BATTERY	NO
D6	HE WILLIAMS	6DR-TL-L15/840-DIM-UNV-OW-OF-CS-N-F1	120 V	14 VA	LED	>80	4000 K	RECESSED	6" DOWNLIGHT	NO
D6E	HE WILLIAMS	6DR-TL-L15/840-EM/7W-DIM-UNV-OW-OF-CS-N-F1	120 V	14 VA	LED	>80	4000 K	RECESSED	6" DOWNLIGHT; INTEGRAL EM BATTERY	NO
HB	DAY-BRITE	FBZ18L840-UNV-W & HNH5-VHOOK	120 V	102 VA	LED	>80	4000 K	RECESSED	HIGH BAY FIXTURE; ORDER 54" CHAINS & V HOOKS SEPARATELY - HNH5-VHOOK	NO
HBE	DAY-BRITE	FBZ18L840-UNV-W-BSL20B2 & HNH5-VHOOK	120 V	102 VA	LED	>80	4000 K	RECESSED	HIGH BAY FIXTURE; ORDER 54" CHAINS & V HOOKS SEPARATELY - HNH5-VHOOK; INTEGRAL EM BATTERY	NO
L22	HE WILLIAMS	LT-22-L239/840-AF-DIM-UNV	120 V	34 VA	LED	>80	4000 K	RECESSED	2'X2' LAY-IN TROFFER	NO
L22E	HE WILLIAMS	LT-22-L239/840-AF-EM/10W-DIM-UNV	120 V	34 VA	LED	>80	4000 K	RECESSED	2'X2' LAY-IN TROFFER; INTEGRAL EM BATTERY	NO
SL	HE WILLIAMS	76R-4-L52/840-ACFL/D24-DIM-UNV	120 V	36 VA	LED	>80	4000 K	SURFACE	LINEAR SUSPENDED	NO
SLE	HE WILLIAMS	76R-4-L52/840-EM/10W-ACFL/D24-DIM-UNV	120 V	36 VA	LED	>80	4000 K	SURFACE	LINEAR SUSPENDED; INTEGRAL EM BATTERY	NO
V2	HE WILLIAMS	SLF-2-L26/840-HIA-DIM-UNV	120 V	22 VA	LED	>80	4000 K	WALL	2' VANITY FIXTURE	NO
V4	HE WILLIAMS	SLF-4-L26/840-HIA-DIM-UNV	120 V	21 VA	LED	>80	4000 K	WALL	4' VANITY FIXTURE	NO
WBE	GARDCO	101L-16L-400-NW-G2-3-EBPC-UNV-DGY	120 V	22 VA	LED	>80	4000 K	WALL MOUNT SAME AS EXISTING	WALL PACK FIXTURE; INTEGRAL EM BATTERY	
WC	GARDCO	101L-32L-1000-NW-G2-4-UNV-DGY	120 V	107 VA	LED	>80	4000 K	WALL MOUNT SAME AS EXISTING	WALL PACK FIXTURE	
X	HE WILLIAMS	EXIT-E-EM-WHT-SDT-D	120 V	3 VA	LED			UNIVERSAL MOUNT	WALL EXIT SIGN; INTEGRAL EM BATTERY; SELF DIAGNOSTIC BUTTON	NO
XC	HE WILLIAMS	EXIT-E-EM-WHT-SDT-D	120 V	3 VA	LED			UNIVERSAL MOUNT	CEILING EXIT SIGN; INTEGRAL EM BATTERY; SELF DIAGNOSTIC BUTTON	NO

Lighting Space and Zones				Sequence of Operations									Low Voltage Switch Matrix							
Lighting Space and Zones				Sequence of Operations									(Button Labels to be designated by owner during installation)							
		ZONE OF CONTROL		CONTROL SCENARIOS									CONNECT TO NON-NETWORKED LOCAL ROOM CONTROL							
Space Type	Room Number	Description	Designator	Manual On	Manual Off	Dimming	Dispatch 'On'	Timeclock 'On/Off'	Fire Alarm Override "On"	Security System Override "On"	Occupancy Sensor On	Vacancy Sensor Off	Photo Sensor On/Off	S1 (1-Button)	S2 (2-Button)	S3 (3-Button)	S4 (4-Button)	S (Toggle, 3-Way, or 4- Way Switch)	SmD (Integral Sensor, Line Voltage, dimming)	Sm (Integral Sensor, Line Voltage)	Remarks
TRUCK BAYS	100			X	X		X		X	X		X		X							SEE LIGHTING CONTROL DETAIL #1
KITCHEN/DAY ROOM	101	KITCHEN AREA	a	X	X	X	X		X	X		X					X				SEE LIGHTING CONTROL DETAIL #5
		LOUNGE AREA	b	X	X	X	X		X	X		X									
GYM	102			X	X							X		X							SEE LIGHTING CONTROL DETAIL #1
GEAR WASH	103			X	X							X								X	SEE LIGHTING CONTROL DETAIL #3
DOMESTIC LAUNDRY	104			X	X							X		X							SEE LIGHTING CONTROL DETAIL #7
MECHANICAL	105			X	X							X		X							SEE LIGHTING CONTROL DETAIL #7
OFFICE/STUDY	107			X	X	X						X						X			SEE LIGHTING CONTROL DETAIL #2
RESTROOM	108			X	X						X			X							SEE LIGHTING CONTROL DETAIL #1
LAUNDRY	122			X	X		X		X	X		X		X							SEE LIGHTING CONTROL DETAIL #2
BUNKER GEAR STORAGE	124			X	X		X		X	X		X		X							SEE LIGHTING CONTROL DETAIL #3
BATTALION CHIEF	109A			X	X	X						X							X		SEE LIGHTING CONTROL DETAIL #2
BATTALION CHIEF SLEEPING	109B			X	X	X						X							X		SEE LIGHTING CONTROL DETAIL #2
IT	116A			X	X													X			
CAPTAIN STORAGE	121A			X	X	X						X							X		SEE LIGHTING CONTROL DETAIL #2
CAPTAIN BEDROOM	121B			X	X	X						X							X		SEE LIGHTING CONTROL DETAIL #2
BUNK	TYPICAL			X	X	X						X							X		SEE LIGHTING CONTROL DETAIL #2
CORRIDOR	TYPICAL			X	X		X		X	X	X			X							SEE LIGHTING CONTROL DETAIL #1
SHOWER	TYPICAL			X	X						X									X	SEE LIGHTING CONTROL DETAIL #3
STORAGE	TYPICAL			X	X							X								X	SEE LIGHTING CONTROL DETAIL #3
EXTERIOR LIGHTING	TYPICAL						X	X	X	X			X								SEE LIGHTING CONTROL DETAIL #4

MECHANICAL EQUIPMENT COORDINATION SCHEDULE

(VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)

					ELECTRICAL LOAD						PROTECTION				CONDUCTOR / CONDUIT SIZE						
					MOTOR(S) FLA			HEAT					SPECIFIED			CONDUCTORS					
EQUIPMENT DESIGNATION	DESCRIPTION	CFM	VOLT	Φ	QTY	LARGEST	SUM OF REMAINING	ELECTRIC KW	OTHER VA	TOTAL CONNECTED VA	MCA	MOCP	TRIP	POLE	SETS	QTY.	SIZE	GND	CONDUIT	DISC.	REMARKS
AHU-1, AHU-2	AIR HANDLER	1000	208	1	1	4.3		7.2		8094	49	50	50	2	1	3	#8	#10	3/4"	CB	
AHU-3	AIR HANDLER	780	208	1	1	2.8		7.2		7782	47	50	50	2	1	3	#8	#10	3/4"	CB	
AHU-4	AIR HANDLER	1600	208	1	1	3.9		7.2		8011	48	50	50	2	1	3	#8	#10	3/4"	60/2/1	
HP-1	HEAT PUMP		208	1	2	14.1	0.64			3066	19	30	30	2	1	3	#10	#10	3/4"	30/2/3R	
HP-2, HP-4	HEAT PUMP		208	1	2	10.4	0.64			2296	16	25	25	2	1	3	#10	#10	3/4"	30/2/3R	
HP-3	HEAT PUMP		208	1	2	9.1	0.64			2026	13	20	20	2	1	3	#12	#12	3/4"	30/2/3R	
EF-1	EXHAUST FAN	84	120	1	1				14	14			20	1	1	3	#12	#12	3/4"	TOGGLE SWITCH	INTERLOCK WITH LIGHTING
EF-2	EXHAUST FAN	210	120	1	1				14	14			20	1	1	3	#12	#12	3/4"	TOGGLE SWITCH	INTERLOCK WITH LIGHTING
EF-3	EXHAUST FAN		120	1	1				14	14			20	1	1	3	#12	#12	3/4"	TOGGLE SWITCH	INTERLOCK WITH LIGHTING
EF-4	EXHAUST FAN		120	1	1				14	14			20	1	1	3	#12	#12	3/4"	TOGGLE SWITCH	INTERLOCK WITH LIGHTING
EWH-1	ELECTRIC WATER HEATER		208	3				12.3		12300			45	3	1	4	#8	#10	3/4"	60/3/1	
EWH-2	ELECTRIC WATER HEATER		208	3				24		24000			90	3	1	4	#3	#8	1-1/4"	100/3/1	
CP-1	CIRCULATION PUMP		120	1					44	44			20	1	1	2	#12	#12	3/4"	TOGGLE SWITCH	
	DRYER		208	1					5000	5000			30	2	1	3	#10	#10	3/4"	REC	
	EXTRACTOR (EXISTING)								1664	1664			15	2	1	3	#12	#12	3/4"	TOGGLE SWITCH	

CITY OF CRESTVIEW, FLORIDA

Ajax BUILDING CORPORATION

GMC

FIRE STATION 3

585 BROOKMEADE DR,
CRESTVIEW, FL 32539

SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

HVAC POWER COORDINATION & LTG FIXTURE SCHEDULES

Date 12/19/2025

Drawn By LR

Checked By KS

E502

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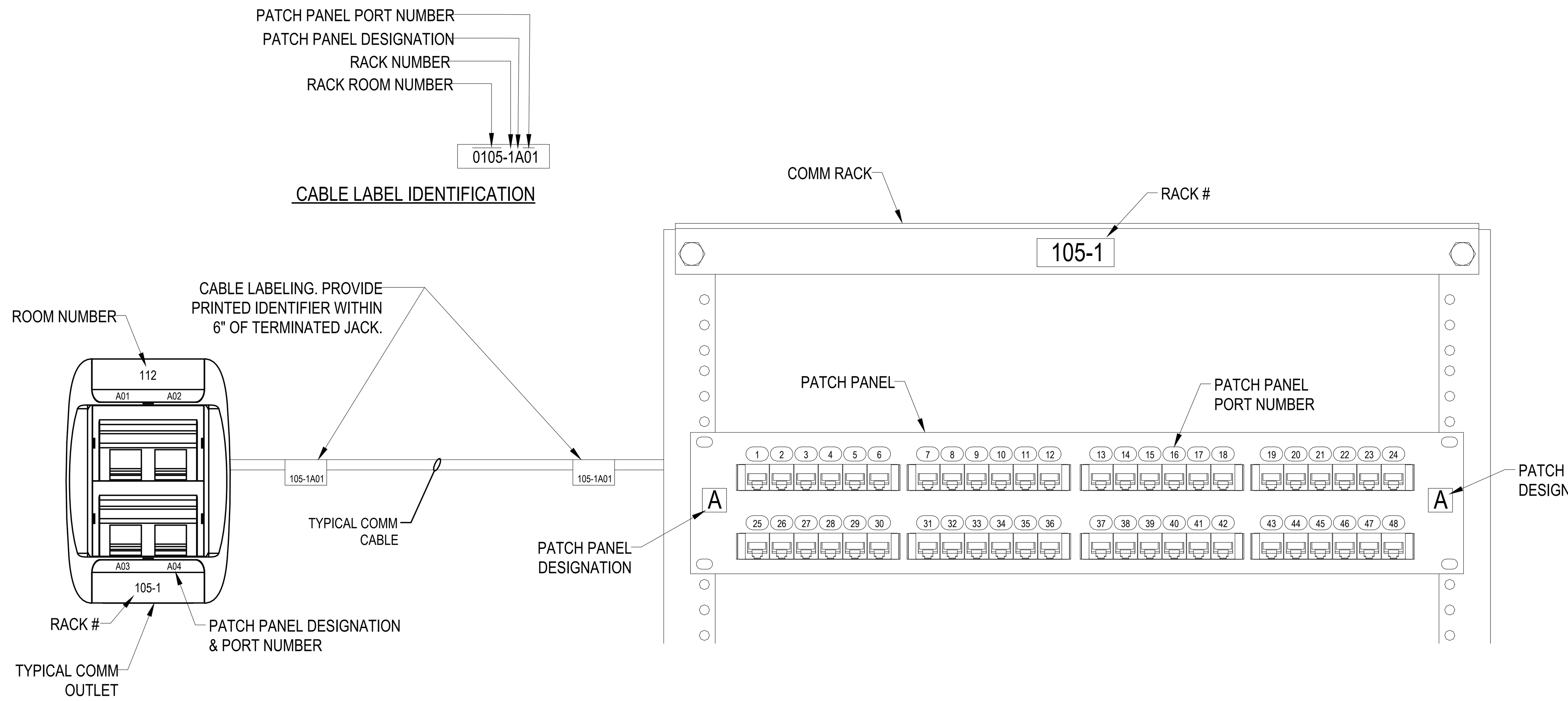
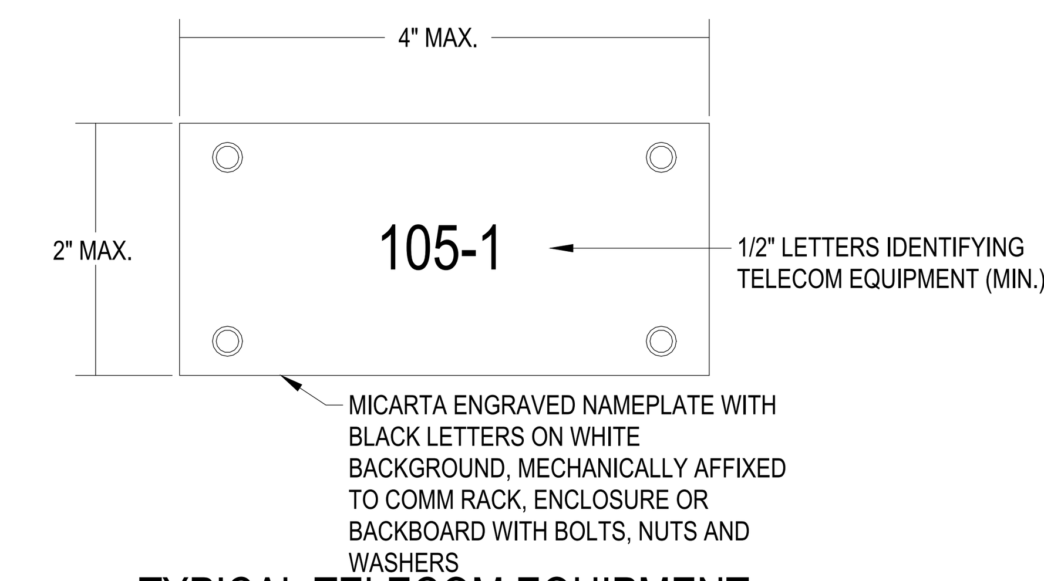
Job No.



COMM OUTLET TO PATCH PANEL LABELING NOMENCLATURE

NOT TO SCALE



TYPICAL TELECOM EQUIPMENT NAMEPLATE

NOT TO SCALE

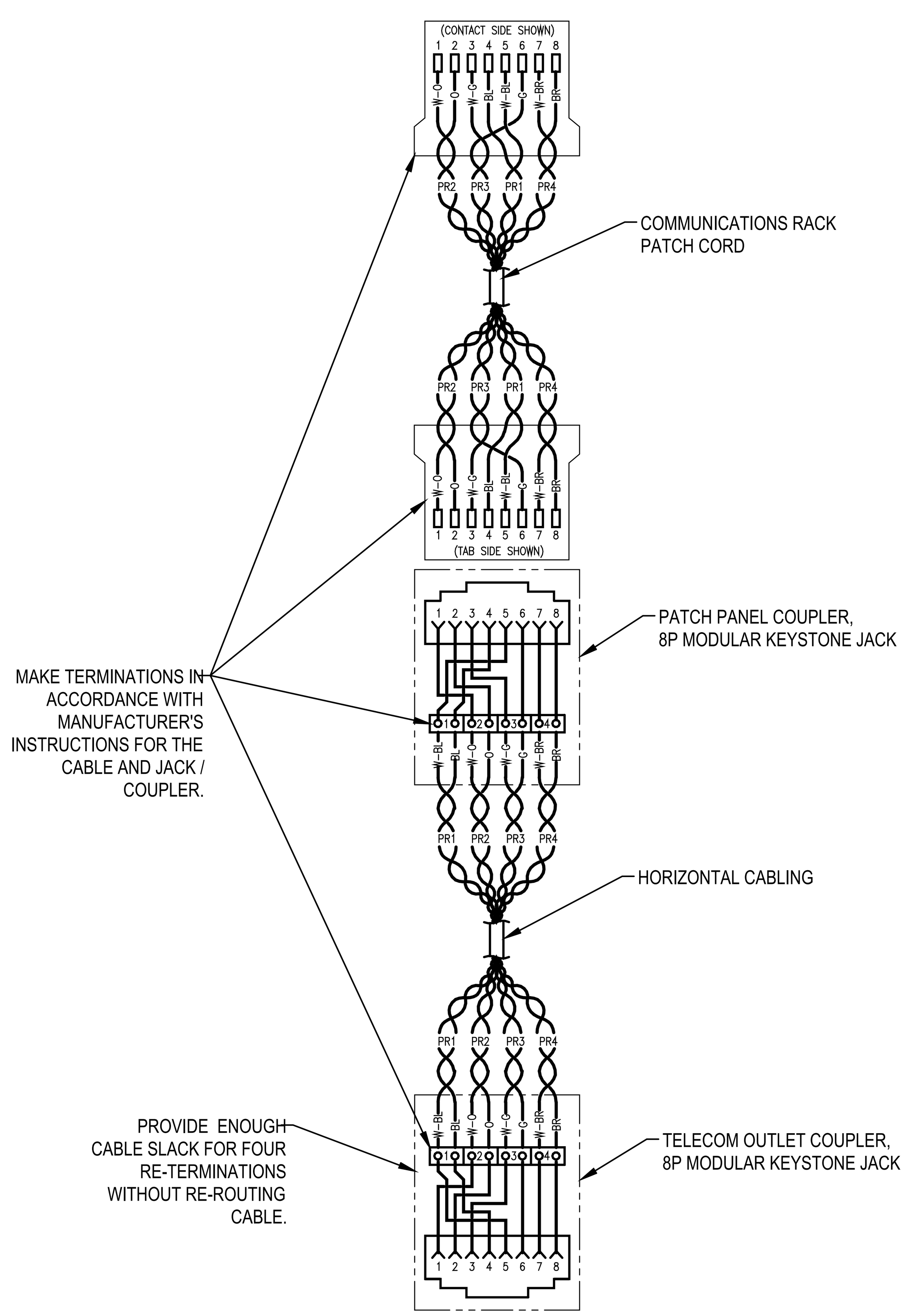
TELECOMMUNICATIONS LEGEND

TELECOM SYSTEMS SYMBOLS			
FLR	CLG	WALL	
▽ (in square)	▽ (in circle)	▽	COMMUNICATIONS OUTLET WITH COUPLERS AND COVERPLATE; INSTALL 3/4"C WITH CABLE UP INTO CEILING SPACE. SEE DETAILS FOR CONDUIT REQUIRED LOCATIONS. WALL MOUNT 18" AFF UNO.
TV	TV	TV	COMMUNICATIONS OUTLET WITH COVERS AND COVERPLATE FOR VIDEO MONITORS LOCATED IN RECESSED WALL BOX; SEE BOX DETAILS. SEE DETAILS FOR CONDUIT REQUIRED LOCATIONS.
			WIRELESS ACCESS POINT: CONTRACTOR TO PROVIDE CABLE IN 3/4" CONDUIT UNO. SEE DETAILS FOR CONDUIT REQUIRED LOCATIONS.
			PLYWOOD BACKBOARD; 3/4" THICK; PAINT WITH TWO COATS OF FIRE RETARDANT PAINT.

COMMUNICATIONS OUTLET DESIGNATIONS	
▽ +XX"	LETTERS +XX" ADJACENT TO SYMBOL INDICATES RECEPTACLE MOUNTING HEIGHT. WHERE NO HEIGHT IS INDICATED MOUNT 18" AFF TO C/L. +AC" = ABOVE COUNTER. +TV" = VERIFY HEIGHT OF TV WITH OWNER.
▽ 2	NUMBER "2" INDICATES NUMBER OF PORTS. NO NUMBER INDICATES ONE (1)

CABLING COLOR CODE	
BLUE	COMMUNICATIONS OUTLET TO COMM RACK
BLUE	COMM ROOM - COMMUNICATIONS OUTLET PATCH CORD
WHITE	WIRELESS ACCESS POINT TO COMM RACK
WHITE	COMM ROOM - WIRELESS ACCESS POINT PATCH CORD
RED	FIRE ALARM PANEL TO COMM RACK
BLACK	SECURITY PANEL TO COMM RACK
GRAY	LIGHTING CONTROL COMMUNICATIONS CABLING

ABBREVIATIONS		
AFF	-	ABOVE FINISHED FLOOR
AHJ	-	AUTHORITY HAVING JURISDICTION
AWG	-	AMERICAN WIRE GAUGE
BLDG	-	BUILDING
CAT 6	-	CATEGORY 6
CAT 6A	-	CATEGORY 6 AUGMENTED
CO	-	COMMUNICATIONS OUTLET
CFCI	-	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	-	CONTRACTOR FURNISHED, OWNER INSTALLED
CLG	-	CEILING
DWG	-	DRAWING
EC	-	ELECTRICAL CONTRACTOR
ELEC	-	ELECTRICAL
FA	-	FIRE ALARM
FLR	-	FLOOR
FO	-	FIBER OPTIC
GND	-	GROUNDED
JB	-	JUNCTION BOX
LAN	-	LOCAL AREA NETWORK
MTG	-	MOUNTING
NEC	-	NATIONAL ELECTRICAL CODE
NIC	-	NOT IN CONTRACT
N/A	-	NOT APPLICABLE
OFCI	-	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	-	OWNER FURNISHED, OWNER INSTALLED
PP	-	PATCH PANEL
RMU	-	RACK MOUNT UNIT
UPS	-	UNINTERRUPTIBLE POWER SUPPLY
UTP	-	UNSHIELDED TWISTED PAIR
UNO	-	UNLESS NOTED OTHERWISE
WAP	-	WIRELESS ACCESS POINT

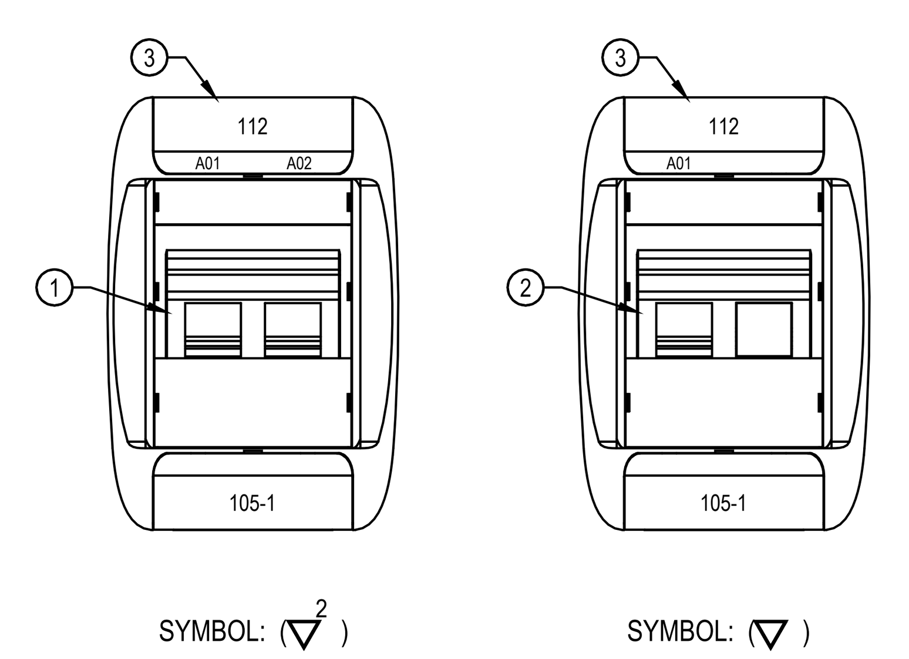


568B WIRING CONNECTION DETAIL

NOT TO SCALE

OUTLET DETAIL NOTES:

1. CATEGORY 6A, 2-PORT ANGLED DATA COUPLER, EQUAL TO BELDEN AX102413 INSERT WITH (2) 8P CAT 6A MODULAR JACKS, EQUAL TO BELDEN REVCONNECT RV6MJKUEW, COLOR ELECTRIC WHITE.
2. CATEGORY 6A, 2-PORT ANGLED DATA COUPLER, BELDEN AX102413 INSERT WITH (1) 8P CAT 6A MODULAR JACKS, BELDEN REVCONNECT RV6MJKUEW AND ONE BLANK COVER, COLOR ELECTRIC WHITE.
3. FACEPLATE EQUAL TO BELDEN AX101747. COLOR ELECTRIC WHITE, PROVIDE (1) BELDEN AX101759 FILLER AND (1) BELDEN AX1011763 FILLER.



OUTLET CONFIGURATION DETAIL

NOT TO SCALE

CONDUIT ROUTING NOTES

A. LOCATION AND ROUTING OF CONDUIT IS APPROXIMATE AND DEPICTS DESIGN INTENT ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING AND FIELD VERIFYING FINAL CONDUIT ROUTING. THE CONTRACTOR SHALL COORDINATE THE FINAL ROUTING OF CONDUITS TO AVOID CONFLICTS WITH OTHER TRADES WHILE MINIMIZING CHANGES IN DIRECTION AND OVERALL CONDUIT LENGTH.

B. SUPPORT CONDUIT FROM BUILDING STRUCTURE. DO NOT SUPPORT CONDUITS FROM OTHER SYSTEM COMPONENTS OR SUPPORTS.

C. TERMINATE ALL CONDUIT ENDS WITH THREADED PLASTIC INSULATING BUSHINGS. BUSHINGS MUST FIT TIGHTLY ON CONDUIT CONNECTOR THREADS. INSTALL BUSHINGS PRIOR TO PULLING CABLES.

D. IDENTIFY ALL CONDUITS AND PULLBOXES WITH BLUE PAINT. PAINT EACH CONDUIT COUPLING AND PULLBOX COVER.

OUTLET LOCATION NOTES

A. ALL COMMUNICATION OUTLET LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EACH OUTLET WITH THE ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.

B. COMMUNICATION OUTLET LOCATIONS SHALL BE COORDINATED WITH WINDOWS, CASEWORK, DOOR SWINGS, COUNTER BACKSPLASHES AND ALL OTHER OBSTRUCTIONS.

TELECOMMUNICATIONS GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS.

B. DEVICES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS FOR EACH SPACE.

C. ALL METAL PARTS OF COMMUNICATION RACKS AND EQUIPMENT SHALL BE GROUNDED THROUGH GROUND BUS. CONTRACTOR SHALL VERIFY THAT NO TWO PIECES OF EQUIPMENT IN ANY TELECOMMUNICATIONS SYSTEM HAVE A POTENTIAL DIFFERENCE GREATER THAN 500 MILLIVOLTS.

D. CONTRACTOR SHALL SUPPLY A MICARTA NAMEPLATE MECHANICALLY AFFIXED FOR EACH COMMUNICATIONS RACK, BACKBOARD AND TERMINAL CABINET. THE NAMEPLATE SHALL IDENTIFY THE SYSTEM..

E. ALL TURNS IN CONDUIT SHALL BE SWEPT CONDUIT OR MANUFACTURED ELBOWS. NO CONDULETS WILL BE ALLOWED.

F. ALL COMMUNICATIONS CABLING, WHETHER INSTALLED IN CONDUIT OR NOT, SHALL BE INSTALLED A MINIMUM OF 8" CLEAR FROM 120V ELECTRICAL, ALARM OR OTHER WIRING AND 12" CLEAR FROM MOTORS, LIGHT FIXTURES OR SOUND SYSTEM. A MINIMUM 6" CLEARANCE FOR THE SAME SHALL APPLY AT PERPENDICULAR CROSSOVER POINTS.

G. ALL JUNCTION BOXES, CONDUIT, HANGERS AND CABLING SHALL BE MOUNTED HIGH ENOUGH ABOVE THE SUSPENDED CEILING SO AS NOT TO INTERFERE WITH THE REMOVAL OR SERVICING OF CEILING TILES, LIGHT FIXTURES OR THE HVAC SYSTEM.

H. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA THAT ARE PART OF THE TELECOM SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.

I. IN NO CASE SHALL ANY TELECOM CONDUIT HAVE MORE THAN TWO 90 DEGREE BENDS WITHOUT TERMINATING IN A PULLBOX. PULLBOXES SHALL NOT BE USED FOR A CHANGE OF DIRECTION.

J. ALL CABLES SHALL BE LABELED AT BOTH ENDS WITH THE COMMUNICATIONS OUTLET NUMBER AND THE PATCH PANEL OUTLET NUMBERS.

K. ALL TELECOMMUNICATION OUTLETS SHALL BE INSTALLED FLUSH IN WALLS OR FLOOR BOXES.

L. ALL PENETRATIONS OF FLOORS AND WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK SHALL BE FIRESTOPPED. FIRESTOPPING SHALL BE PROVIDED USING U.L. LISTED SYSTEMS WITH THE FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY. INSTALL ALL FIRESTOP MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A DETAIL FOR EACH TYPE OF PENETRATIONS REQUIRED.

M. PROVIDE NO LESS THAN ONE SINGLE PORT DATA CABLE TO EACH OF THE FOLLOWING SPECIAL SERVICE CABINETS: A) FIRE ALARM SYSTEM, B) SECURITY SYSTEM, C) CCTV SYSTEM. COORDINATE LOCATIONS AND INTERFACE REQUIREMENTS WITH THE INSTALLER FOR EACH SPECIAL SYSTEM. CABLING SHALL BE HOME RUN IN CONDUIT TO COMM RACK.

N. THE INSTALLING CONTRACTOR SHALL INSTALL THE FOLLOWING AMOUNTS OF COMMUNICATIONS CABLE SLACK: COMMUNICATIONS OUTLET - 1'6"; TELECOM CLOSET/ROOM - 20'-0".

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25106
Job No.

FIRE STATION 3
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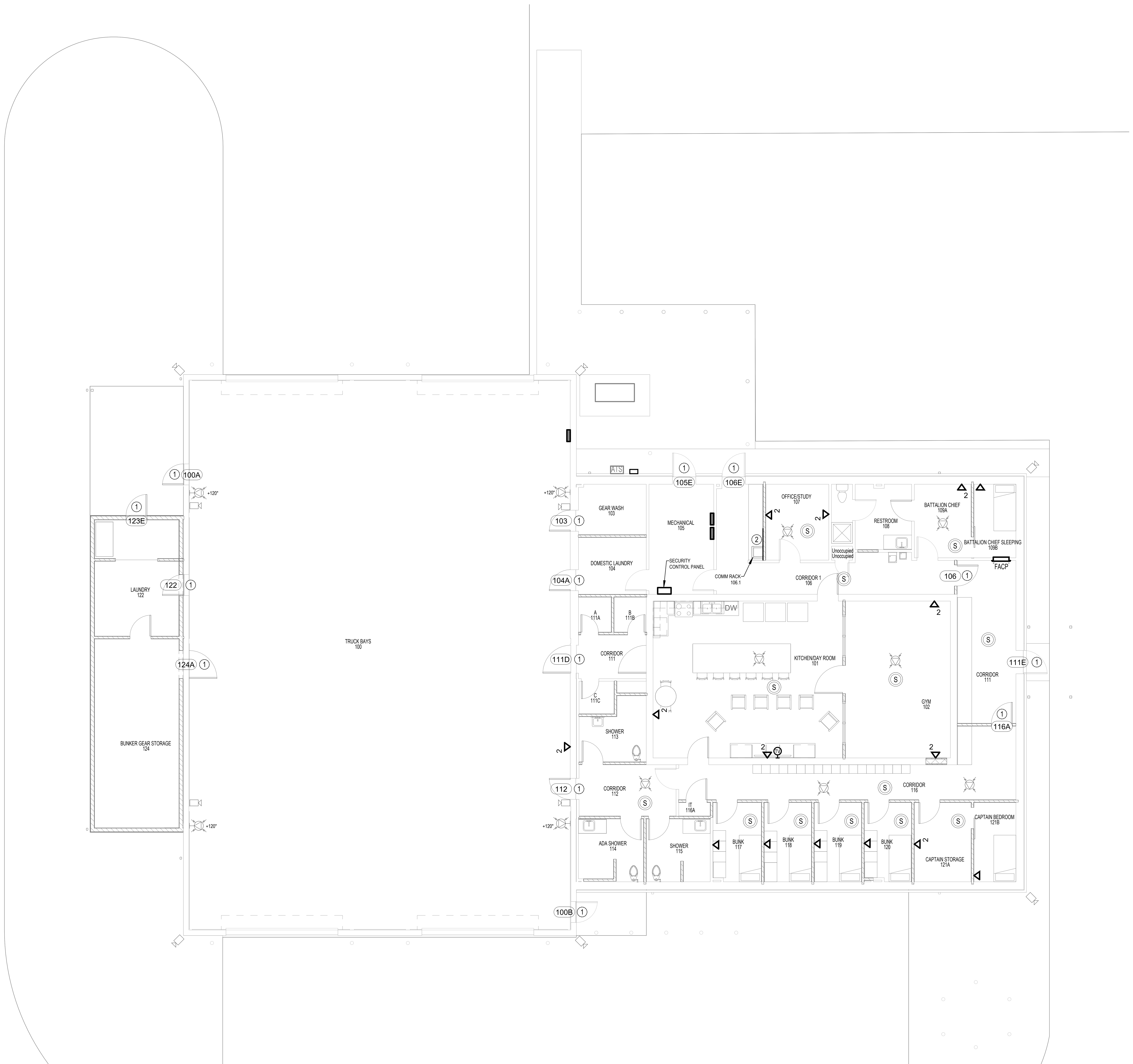
TELECOM LEGEND AND NOTES

Date	12/19/2025
Drawn By	Author
Checked By	Checker

T001

KEYNOTES

1	ACCESS CONTROL DOOR. SEE DETAILS.
2	NEW COMM RACK LOCATION. PROVIDE PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT. COLOR TO MATCH ADJACENT WALLS. SEE ELEVATION.



SYSTEMS NEW WORK PLAN

1/8" = 1'-0"

0 4' 8' 16'

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SYSTEMS FLOOR PLAN

Date 12/19/2025

Drawn By Author

Checked By Checker

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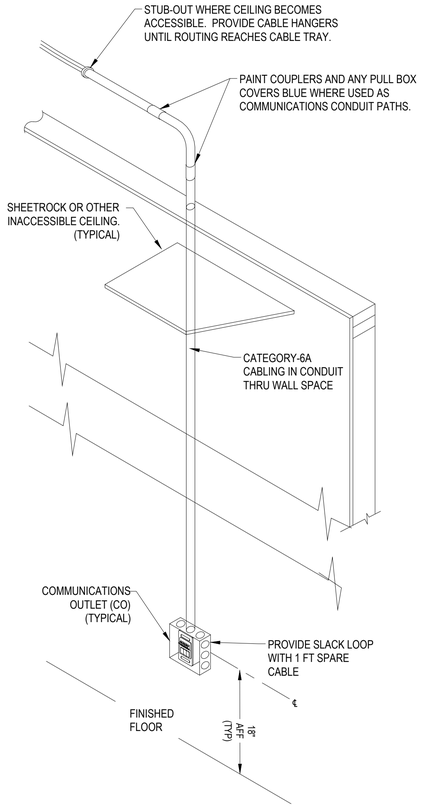
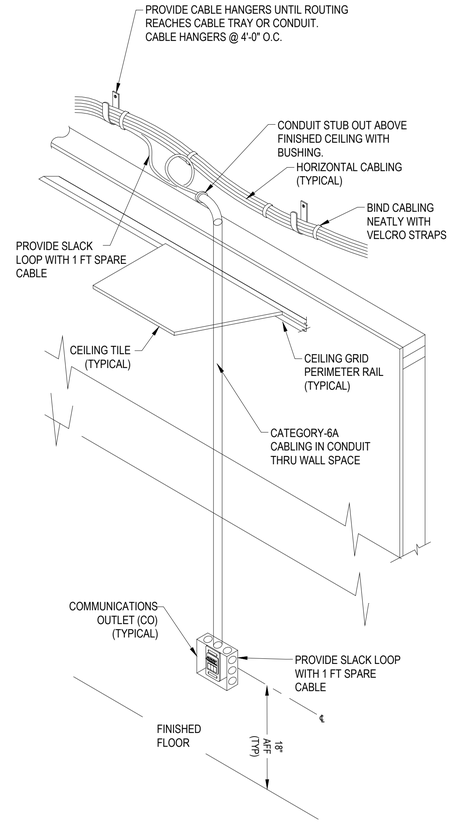


COMMUNICATIONS OUTLET INSTALLATION DETAIL AT INACCESSIBLE CEILING LOCATIONS

NTS



COMMUNICATIONS OUTLET INSTALLATION DETAIL AT ACCESSIBLE CEILING LOCATIONS

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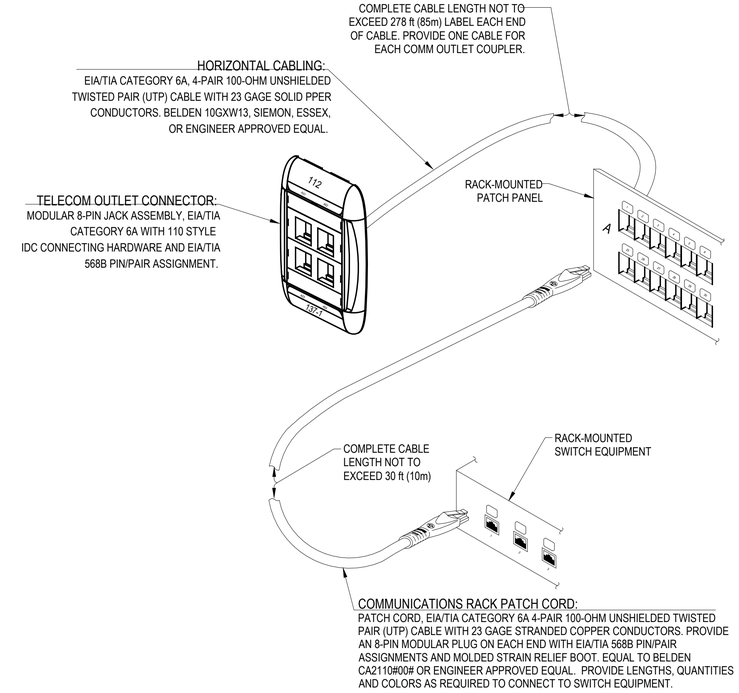
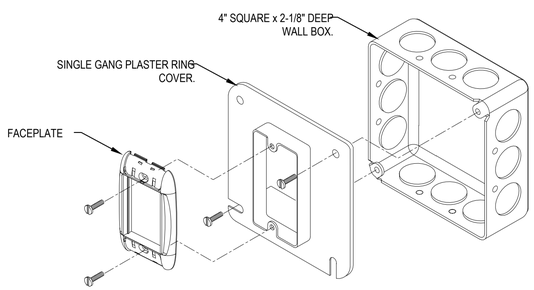


COMMUNICATIONS CABLING DETAIL

NOT TO SCALE



TYPICAL FLUSH MOUNT COMMUNICATIONS OUTLET DETAIL

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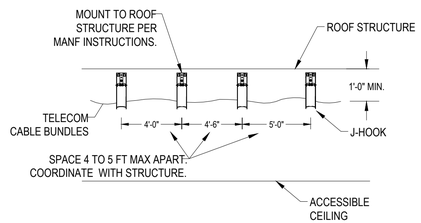
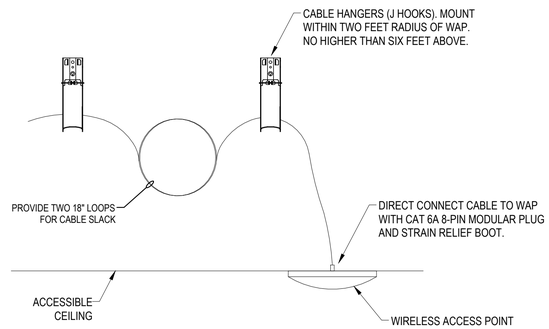


CABLE ROUTING NOTES

1. ROUTE PERPENDICULAR & PARALLEL TO BUILDING LINES.
2. BUNDLE CABLES WITH PANDUIT PAN-TY PRT4S-C WITH RELEASABLE LOOP AT EACH HANGER.
3. HANGERS FOR CABLES SHALL BE J-HOOKS EQUAL TO ERICO CADDY CAT 32 HP. COLOR SHALL BE BLUE.
4. MAXIMUM NUMBER OF CABLES OR BUNDLE SIZE IS 25 FOR CAT 6A AND 40 FOR CAT 5 OR 6.
5. EACH CATEGORY OF CABLE SHALL BE BUNDLED TOGETHER WITH LIKE CABLE, SEPARATE FROM OTHER CATEGORIES OF CABLING. I.E. DON'T BUNDLE CAT 6 WITH CAT 6A.

CABLE ROUTING DETAIL

NOT TO SCALE



WIRELESS ACCESS POINT MOUNTING DETAIL

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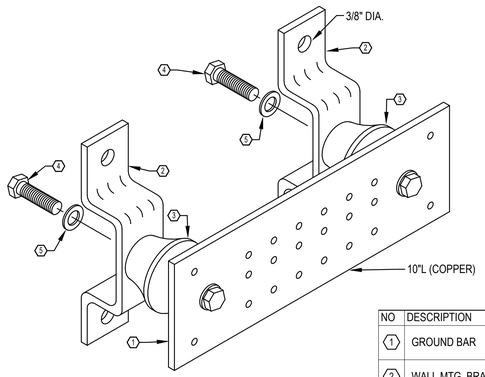


NO	DESCRIPTION
1	GROUND BAR
2	WALL MTG. BRACKET
3	INSULATORS
4	5/8"X1" H.H.C.S. BOLT
5	5/8" LOCKWASHER

GROUND BAR NOTES:

1. INSTALL ONE BAR AT EACH COMMUNICATIONS ROOM.
2. ROUTE 1#4 BARE CU IN 1"CONDUIT FROM GROUND BAR TO BUILDING ELECTRICAL SERVICE ENTRANCE GROUND.
3. CONNECT BARS WITH 1#6 BARE CU IN 1" CONDUIT.

INSULATED GROUNDING BAR DETAIL

NOT TO SCALE

PATCH CORD NOTE:

TIA-568 ALLOWS A MAXIMUM OF 33 FT (10M) FOR ALL CROSS CONNECT AND EQUIPMENT PATCH CORDS. CROSS CONNECT AND EQUIPMENT PATCH CORDS SHALL BE KEPT AS SHORT AS POSSIBLE BUT STILL ALLOW FOR PROPER CONNECTION. THERE SHALL BE NO TENSION IN THE CORDS THAT CAUSE CONNECTIONS TO EQUIPMENT TO LOOSEN OR DEGRADE SERVICE. CORDS SHALL HAVE MINIMAL SLACK.

FIBER OPTIC PATCH CORD NOTE:

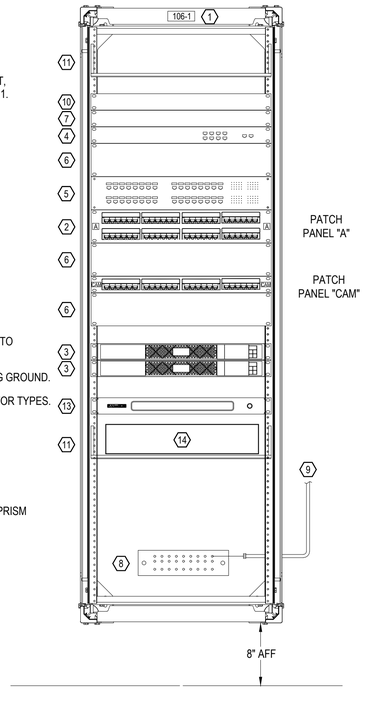
PROVIDE (2) 1m DUPLEX FIBER OPTIC PATCH CORDS. COLOR AQUA. VERIFY CONNECTORS ON EACH END WITH OWNER TO COORDINATE WITH THEIR EQUIPMENT.

PATCH CORD QUANTITY SCHEDULE

Location	Patch Cord Color	Total # of Cat 6a Patch Cords		Total # of Cat 6 Patch Cords	
		Length (m)		Length (m)	
		1	2	1	2
105.1	BLUE (Comm Outlet)	30	-	-	-
	WHITE (Access Point)	11	-	-	-
	YELLOW (Security Camera)	-	-	6	-
	RED (Fire Alarm)	1	-	-	-

RACK EQUIPMENT SCHEDULE

1. COMMUNICATION EQUIPMENT RACK, 78" H x 25" D WALL MOUNT SWING OUT RACK, EQUAL TO CHATSWORTH 11792-E25 WITH HEAVY DUTY SWING GATE KIT, GLACIER WHITE IN COLOR. PROVIDE WITH SIX RINGS, CHATSWORTH 11799-001. PROVIDE WITH SIDE LOUVERED PANELS AND FRONT SCREEN PANEL.
2. PATCH PANEL "IT". 48-PORT MODULAR OPEN BLADE PATCH PANEL WITH SNAP-IN BLUE 8-POSITION (RJ45) JACKS. SEE SCHEDULE.
3. UPS; EATON 5PX2200RT 2KVA RACK MOUNT WITH NETWORK CARD. PROVIDE MINIMUM 12 FT POWER CORD.
4. UTILITY MODEM/ROUTER AND/OR OFCI ENTERPRISE SECURITY GATEWAY
5. OFCI MANAGED NETWORK POE SWITCH
6. FRONT & REAR CABLE MANAGEMENT PANEL EQUAL TO PANDUIT #WMP1E. 3.5"HX19"WX8.4"D.
7. FRONT & REAR CABLE MANAGEMENT PANEL EQUAL TO PANDUIT #WMPLSE. 1.7"HX19"WX7.4"D.
8. TELECOM GROUNDING BUSBAR (TBB), EQUAL TO HARGER GBI14412J. MOUNT TO BACKBOARD.
9. ONE #4 CU GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT TO BUILDING GROUND.
10. FIBER DRAWER WITH SPLICE TRAY. COORDINATE WITH UTILITY ON CONNECTOR TYPES.
11. EQUIPMENT SHELF
12. PATCH PANEL "CAM". 24-PORT MODULAR OPEN BLADE PATCH PANEL WITH SNAP-IN YELLOW 8-POSITION (RJ45) JACKS. SEE SCHEDULE.
13. 800W 4-CHANNEL POWER AMPLIFIER, SEE SOUND SYSTEM RISER.
14. FIRE STATION P25 RADIO ALERT INTERFACE; OWNER FURNISHED; EQUAL TO PRISM FSA P25 FIRE STATION ALERTING.



RACK ELEVATION

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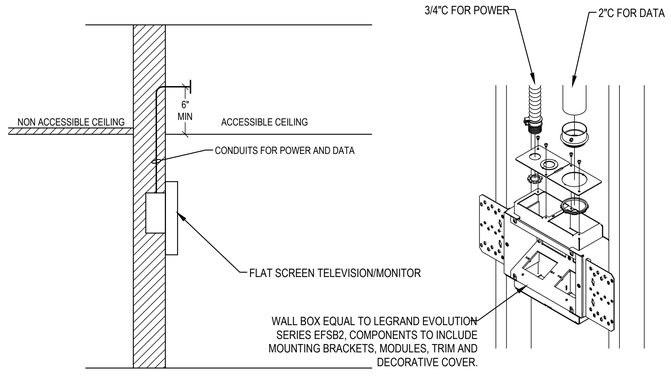

FLAT PANEL OUTLET MOUNTING DETAIL

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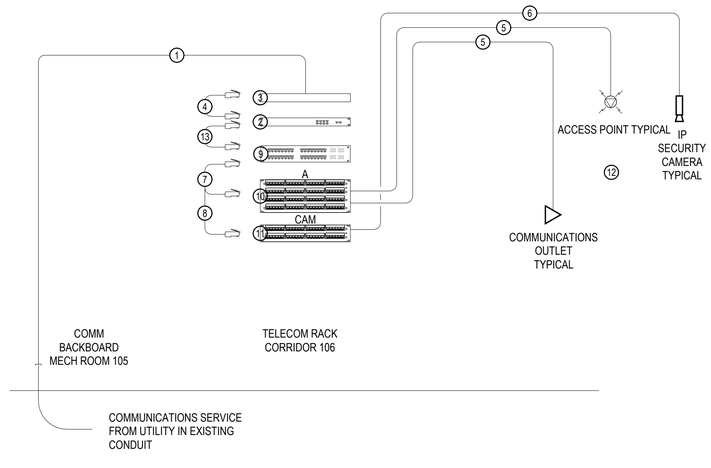

DATA SYSTEM RISER DIAGRAM

NOT TO SCALE

DATA SYSTEM NOTES:

1. BUILDING ENTRANCE CABLE (FIBER WHERE AVAILABLE) PROVIDED AND INSTALLED BY UTILITY.
2. MODEM / ROUTER PROVIDED BY UTILITY AND/OR ENTERPRISE SECURITY GATEWAY PROVIDED BY OWNER.
3. FIBER PATCH PANEL FOR UTILITY FIBER WITH SPLICE TRAY; COORDINATE WITH UTILITY ON CONNECTOR TYPE.
4. CABLE TO GATEWAY AS RECOMMENDED BY UTILITY.
5. HORIZONTAL WIRING CABLES. CATEGORY 6A, FOUR-PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 AWG SOLID PAIR CONDUCTORS. MAXIMUM LENGTH 90 METERS (295'). CABLE COLOR SHALL BE BLUE FOR DATA AND WHITE FOR ACCESS POINTS. TERMINATE CABLES AT PATCH PANEL "A".
6. IP SECURITY CAMERA CABLES. CATEGORY 6, FOUR-PAIR 100-OHM UNSHIELDED TWISTED PAIR (UTP) CABLE WITH 24 AWG SOLID PAIR CONDUCTORS. MAXIMUM LENGTH 90 METERS (295'). CABLE COLOR SHALL BE BLUE FOR YELLOW. TERMINATE CABLES AT PATCH PANEL "CAM".
7. EQUIPMENT PATCH CORDS. CATEGORY 6A, FOUR-PAIR 100-OHM UTP CABLE WITH 24 AWG SOLID PAIR CONDUCTORS. PROVIDE BLUE FOR COMM OUTLETS AND WHITE FOR ACCESS POINTS.
8. EQUIPMENT PATCH CORDS. CATEGORY 6, FOUR-PAIR 100-OHM UTP CABLE WITH 24 AWG SOLID PAIR CONDUCTORS. PROVIDE YELLOW FOR IP SECURITY CAMERAS.
9. OFCI MANAGED NETWORK POE SWITCH; PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
10. 48 PORT MODULAR OPEN BLADE PATCH PANEL "A"; SEE PATCH PANEL SCHEDULE. PROVIDE COLORED SNAP-IN, CAT 6A RATED, 8-POSITION (RJ45) JACKS TO MATCH CABLE COLOR.
11. 24 PORT MODULAR OPEN BLADE PATCH PANEL "CAM"; SEE PATCH PANEL SCHEDULE. PROVIDE COLORED SNAP-IN, CAT 6A RATED, 8-POSITION (RJ45) JACKS TO MATCH CABLE COLOR.
12. OFCI ACCESS POINT.
13. FIBER OPTIC PATCH CORD; DUAL STRAND, DIELECTRIC, FACTORY TERMINATED AND TESTED.

CITY of CRESTVIEW, FLORIDA — The Hub City of Northwest Florida — 1916

Ajax BUILDING CORPORATION

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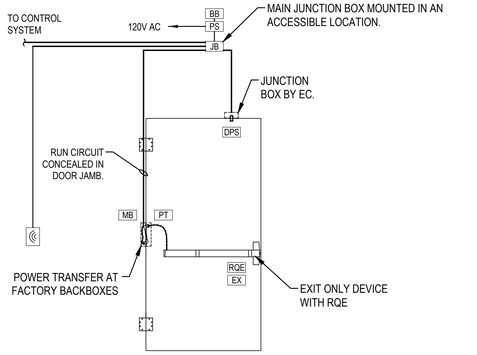
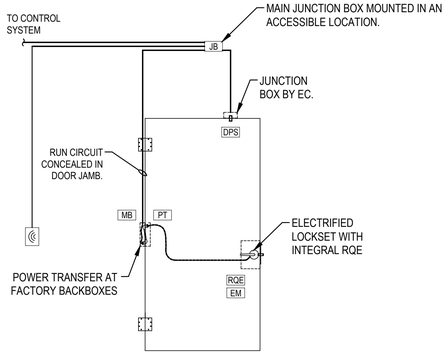


SECURE DOOR WITH EXIT DEVICES

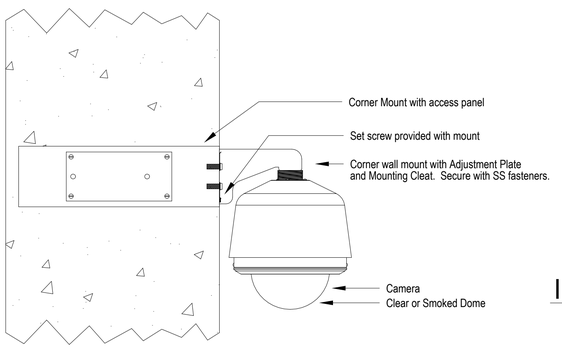


SECURE DOOR WITH LOCKSET & SURFACE BOLTS

SPECIAL NOTE: MOUNT ALL DEVICES FOR STOREFRONT DOORS IN MULLION UNLESS NOTED OTHERWISE.

DOOR ROUGH-IN DETAILS

NOT TO SCALE



CORNER MOUNTED CAMERA DETAIL

NOT TO SCALE

DIRECT TERMINATION NOTE

DIRECT TERMINATE A CAT 6 CABLE AT EACH SECURITY CAMERA WITH A MALE 8P8C MODULAR PLUG, PROVIDED BY THE TELECOM STRUCTURED CABLING CONTRACTOR. CABLE JACKET MUST BE EXTENDED INTO THE CONNECTOR FOR STRAIN RELIEF.

CARD READER NOTES

CARD READER SHALL BE COORDINATED WITH THE DOOR HARDWARE SPECIFICATIONS (08 71 00) AND THE DOOR SCHEDULE. THE CARD READER SHALL BE WEATHER PROOF IN EXTERIOR LOCAITONS. THE SECURITY CONTRACTOR SHALL BE CAPABLE OF COMMISSIONING AND INTERFACING THE ACCESS CONTROL SYSTEM WITH THE LOCK.

DOOR POSITION SWITCH NOTE

DOOR POSITION SWITCHES SHALL BE NORMALLY OPEN. EACH SWITCH SHALL BE HELD IN THE CLOSED POSITION WHEN DOOR IS CLOSED. THE SWITCH SHALL MOVE TO THE OPEN POSITION WHEN DOOR IS OPENED. OPEN CIRCUIT SHALL GENERATE AN ALARM STATE UNLESS A RQE IS SIGNALED.

SECURE DOOR OPERATION

PRESENTING VALID DOOR CREDENTIAL TO CARD READER SIGNALS ELECTRIC UNLOCKING OF THE ELECTRIFIED EXIT DEVICE OR THE ELECTRIFIED LOCKSET. THE DOOR POSITION SWITCH MONITORS THE STATUS OF EACH DOOR FOR DOOR HELD OPEN OR UNAUTHORIZED ENTRY. A REQUEST-TO-EXIT SWITCH INTERNAL TO EXIT DEVICE OR LOCKSET AND CONNECTED TO INTRUSION DETECTION SYSTEM IS ACTIVATED UPON EXITING FROM THE SECURE SIDE SIGNALING AN AUTHORIZED EXITING.

IP SECURITY GENERAL NOTES

A. THE IP SECURITY SYSTEM AND THE ACCESS CONTROL SYSTEM INTEGRATION AND CONSTRUCTION SHALL BE PERFORMED BY THE SAME CONTRACTOR.

B. THE CONTRACTOR SHALL MEET WITH THE OWNER AND ARCHITECT TO COORDINATE CAMERA LOCATIONS PRIOR TO ROUGH-IN. ATTENTION SHALL BE GIVEN TO VIEWS RELATIVE TO OBSTRUCTIONS (TREES, GUTTER DOWNSPOUTS, COVERED WALKWAYS, LIGHT FIXTURES, ETC.).

C. THE CONTRACTOR SHALL TEST OPERATION OF EACH CAMERA AND SET THE FINAL CAMERA RESOLUTIONS, VIEWING ANGLES, FIELDS OF VIEW, LENS SETTINGS AND ANY OTHER PERTINENT CAMERA SETTING.

D. RECORDING OF CAMERA IMAGES TO THE NETWORK VIDEO RECORDER SHALL BE MADE AT THE HIGHEST CAMERA RESOLUTION SETTINGS IN COLOR THAT AMBIENT LIGHT LEVELS ALLOW AND IN BLACK & WHITE DURING LOW LIGHT LEVELS. FRAMES PER SECOND SHALL BE AS DIRECTED BY OWNER, BUT NO LESS THAN 12 FPS.

E. FINAL SYSTEM LABELING / NUMBERING FOR MARKING EQUIPMENT / CABLING AND PROGRAMMING SHALL BE COORDINATED WITH OWNER AND ARCHITECT.

F. A DATA CONNECTION SHALL BE PROVIDED TO THE IP SECURITY SERVER, EACH CAMERA, FLAT PANEL MONITORS, AND ANY CONTROL PANEL..

G. CAMERA BY FURNISHED AND INSTALLED BY OWNER. CABLING BY CONTRACTOR. SHALL BE HI-RES 3x4K OUTDOOR 270 DEGREE, COLOR WHITE, WITH BUILDING CORNER MOUNT BY MANUFACTURER. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGHING IN.

ACCESS CONTROL LEGEND

SYSTEM SYMBOLS	
	CARD READER, MOUNT 48" C/L TO FINISHED FLOOR / GRADE. COORDINATE FINAL LOCATION WITH OWNER / ARCHITECT PRIOR TO ROUGHING-IN.
BB	BATTERY BACKUP
DPS	DOOR POSITION SWITCH
EM	ELECTRIFIED LOCKSET
EX	RIM EXIT DEVICE
JB	JUNCTION BOX
MB	MORTAR BOX
PS	POWER SUPPLY
PT	POWER TRANSFER
RQE	REQUEST-TO-EXIT

ACCESS CONTROL GENERAL NOTES

A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO ELECTRICAL, MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS.

B. ALL ACCESS CONTROL CABLING SHALL BE RUN CONTINUOUSLY IN CONDUIT. CONDUIT TYPES ARE AS DEFINED IN ELECTRICAL DRAWINGS & SPECIFICATIONS. MINIMUM SIZE IS 3/4" EXCEPT AT DOOR FOR CONNECTIONS WHERE 1/2" IS ALLOWED. ALL CONDUIT SHALL BE CONCEALED IF AT ALL POSSIBLE WHERE EXISTING WALLS DO NOT PROVIDE FOR IT. EXPOSED CONDUITS TO PUBLIC SHALL BE GRC.

C. ALL JUNCTION BOXES, CONDUIT, HANGERS AND CABLING SHALL BE MOUNTED HIGH ENOUGH ABOVE THE SUSPENDED CEILING SO AS NOT TO INTERFERE WITH THE REMOVAL OR SERVICING OF CEILING TILES, LIGHT FIXTURES OR THE HVAC SYSTEM. PAINT ACCESS CONTROL JUNCTION BOX COVERS AND CONDUIT COUPLERS WHITE FOR ENTIRE ACCESS CONTROL SYSTEM.

D. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA THAT ARE PART OF THE ACCESS CONTROL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.

E. ALL PENETRATIONS OF FLOORS AND WALLS WHICH EXTEND TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK SHALL BE FIRESTOPPED. FIRESTOPPING SHALL BE PROVIDED USING U.L. LISTED SYSTEMS WITH THE FIRE RATING EQUAL TO OR GREATER THAN THE FIRE RATING OF THE FLOOR OR WALL ASSEMBLY. INSTALL ALL FIRESTOP MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT A DETAIL FOR EACH TYPE OF PENETRATIONS REQUIRED.

F. PROVIDE BUSHINGS ON ALL CONDUIT ENDS.

G. REFER TO DOOR HARDWARE SPECIFICATION AND DRAWINGS TO COORDINATE DOOR HARDWARE TYPES. POWER SUPPLIES SERVING SECURE DOORS WITH EXIT DEVICES SHALL BE PROVIDED AS PART OF THE DOOR HARDWARE PACKAGE AND SHALL BE THE SAME MANUFACTURER AS THE EXIT DEVICE.

H. ALL DOORS SHALL HAVE MECHANICAL FREE EGRESS FROM SECURE SIDE TO UNSECURE SIDE UNLESS NOTED OTHERWISE BY DOOR HARDWARE SPECIFICATIONS.

I. ALL DOORS SHALL FAIL SECURE UPON LOSS OF POWER TO LOCKING DEVICE UNLESS NOTED OTHERWISE BY DOOR HARDWARE SPECIFICATIONS.

J. ALL SECURE DOORS SHALL HAVE REQUEST TO EXIT INTEGRAL TO THE DOOR HARDWARE SUCH THAT EGRESS THROUGH A SECURE DOOR FROM THE SECURE SIDE SHALL NOT GENERATE AN INTRUSION ALARM, UNLESS NOTED OTHERWISE BY DOOR HARDWARE SPECIFICATION.

K. PROVIDE WEATHERPROOF CARD READERS AT ALL EXTERIOR LOCATIONS.

L. CARD READER LOCATIONS ARE APPROXIMATE. EXACT LOCATION WITHIN VICINITY OF THE DOOR SERVED TO BE DETERMINED BY OWNER AND ARCHITECT PRIOR TO ROUGHING-IN AT NO COST TO OWNER.

M. FINAL DOOR NUMBERS SHALL BE BASIS FOR SYSTEM LABELING AND PROGRAMMING. COORDINATE FINAL NUMBERS WITH OWNER AND ARCHITECT PRIOR TO PROGRAMMING AND LABELING.

N. A DATA CONNECTION SHALL BE PROVIDED TO THE ACCESS CONTROL PANEL FOR CONNECTION TO THE INTRUSION CONTROL PANEL. IMMEDIATE EMERGENCY NOTIFICATION SHALL BE SENT TO OWNER DESIGNATED RECEIVING STATION OF AN ALARM EVENT UPON ACTIVATION. THE ACCESS CONTROL SYSTEM SHALL REPORT ALARM EVENTS TO THE OWNER DESIGNATED EMPLOYEE BY ANY COMBINATION OF TEXT, EMAIL,OR OTHER METHODS AS DESIGNATED BY THE OWNER.

O. AN INTRUSION ALARM SYSTEM SHALL BE SET UP AS AN EXTENSION OF AND FULLY INTEGRATED WITH THE ACCESS CONTROL SYSTEM.

P. ALL CONDUIT AT SECURE AND MONITORED DOORS SHALL BE MOUNTED ON THE SECURE SIDE.

ABBREVIATIONS		
ADA	-	AMERICANS WITH DISABILITIES ACT
ACS	-	ACCESS CONTROL SYSTEM
ACSC	-	ACCESS CONTROL SYSTEM CONTRACTOR
EC	-	ELECTRICAL CONTRACTOR
GC	-	GENERAL CONTRACTOR

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SEAL

REVIEW SET
NOT FOR CONSTRUCTION

No.	Description	Date

ACCESS CONTROL DETAILS

Date	12/19/2025
Drawn By	Author
Checked By	Checker

T501