

architecture

planning

interiors

Addendum #1

October 23, 2024

Re: Addendum No. 1

Cary Main EMS 819 Kildaire Farm Road Cary, NC 27511 ADW Job No. 21046 Wake County Bid #24-086

These clarifications constitute Addendum No. 1 and considered part of the Bid Documents. General Contractor shall see that their sub-contractors are in full receipt of the information contained herein.

General Clarifications:

- 1.) See attached attendance sheet from the non-mandatory pre-bid meeting held on Monday, October 14, 2024 at 2:00 pm. at the Cary Regional Library.
- 2.) Pre-bid meeting agenda: Page 2 Section IV-delete reference to alternates 1-7 being deduct alternates. Alternates included 1-3 in section 01 23 00 are to be all <u>ADD</u> alternates.
- 3.) All bidders are to make sure they allow themselves enough time on bid day to park and get through Wake County Security at the entrances to the Justice Center.

Drawings:

Architectural:

- 1.) See attached revised sheet A000-cover sheet. Sheet A006-UL details has been added to the bid set.
- 2.) See attached revised sheet A002-1st Floor Life Safety Plan. Doors with panic hardware were noted per permit review comments. Exit lights were added to this sheet per permit comments.
- 3.) See attached revised sheet A003-2nd floor Life Safety Plan. Doors with panic hardware were noted per permit review comments. Exit lights were added to this sheet per permit comments. Walls surrounding the slide 219 area were changed to 1-hr rated walls per permit comments.
- 4.) See attached revised sheet A004-Wall types & UL details. Wall type #1C has been added for 1-hr UL detail U465. Wall type #15 has been added for 1-hr rated shaft wall.
- 5.) See attached revised sheet A005. UL detail U469 has been added for 1-hr shaft wall.
- 6.) See attached revised sheet A006. UL detail U465 has been added for 1-hr wall.

- 7.) Sheet A100: Change the note for the dual lock knoxbox to read as follows: "Recessed dual lock knox box 4446 series- mount 4'-0" aff (provide Wake County System Code PS-34-0058-93 for one of the cylinders (coordinate with Wake County Locksmith & Tommy Moorman with Wake FD&C), provide second cylinder keyed to Cary Fire Department (Coordinate with fire marshal)."
- 8.) See attached revised sheet A101. Walls enclosing slide 219 have been changed to 1-hr.
- 9.) See attached revised sheet A103 second floor dimension & wall types plan. Wall types around slide 219 have been revised.
- 10.) See attached revised sheet A110-roof plan. Note was added to roof hatch per permit comments.
- 11.) See attached revised sheet A111-roof details. Note was added to detail 3 roof hatch per permit comments.

Plumbing:

- 1.) Sheet P001: See attached revised sheet for gas load summary per permit comments.
- 2.) Sheet P201: See attached revised sheet for note regarding incoming water service, back flow preventer and PRV valve per permit comment.
- 3.) Sheet P210: See attached revised sheet for revisions to LAV-2 in Men 206. Roof square footage added to low roof area per permit comment.
- 4.) Sheet P200: See attached revised sheet for roof area drainage square feet per permit comment.
- 5.) Sheet P301: See attached revised sheet for updates to the riser diagrams per permit comment.

Mechanical:

1.) Sheet M501: See attached revised sheet for revised note 2 on detail 05/M501 per permit comment.

Electrical:

- 1.) Sheet E212: See attached revised sheet for revision of outlets to GF at dayroom 212 per permit comment.
- 2.) Sheet E400: See attached revised sheet for revision at panel P1 per permit comment.
- 3.) Sheet E501: See attached revised sheet for added note on detail 3/E501 per permit comment.
- 4.) Sheet E502: See attached revised sheet for revised not on detail 3/E502 per permit comment.

End of Addendum #1

Cc: \File



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Pre-Bid Meeting for the Garner Main EMS

ATTENDANCE LIST

LOCATION C. D.			ADW#: 21046	
LOCATION: Cary Region #221, 315 Kildaire Farm F	al Library-Adult prog Road, Cary NC 27511	gram room 	DATE: October 14,	, 2:00 pm
Pre-Bid	Special Mtg	5 .	Pre-Final	
Monthly Conf.	☐ Job Check		☐ Final	
NAME	COMPANY	EM	AIL	PHONE
Mike Esposito	ADW Architects	mesposito@adwar	chitects.com	704-379-1919
Tommy Moorman	Wake FD&C	tmoorman@wakeg	gov.com	919-856-6366
Brandon Williams	ADW Architects	bwilliams@adwar	chitects.com	704-379-1919
Christopher Meyerhoeffer	ADW Architects	cmeyerhoeffer@A	DWArchitects.com	704-379-1919- 919-213-1857
Dillan Greene	6:6 Billers	dillan Bygbuil	lers nc.com	919-13/2
Chris Turner	STRATEGIE CONNECTION	Chris. Turner	astratee, Cmailcon	919-703-8691
ROHIT CHIMMULA	GC Company	oohit. Ichimmu	la & cooper taga: com	919-777-2826
Pick Genier	TLL ENTEPRIS	RICK PTCL BATE		919-812-128
Mickey Fanney	Southern Energy *		10 southing - enngy.co	m 919-441-9686
Blair Thomas	TCC Enterprises	Blairetce	nterprises.com	
Sarah Kelly Echter	WAKE FOX	Samh Kahrrid	`	919-856-6363
Brian TESSIER	BARCONSTRUCTION	BIDSE BARCONST	eumon con	336-274-2477
Devis Place	MLB Construction	dplace 2 mlb., sraymond 2 m	nd.com	8133919230
STEVE RAPER	SYNATON	Steve. raper@S	winertan, com	919-523-4604
BRUCE PRESNELL	CMC	ppresnell@cmc	buildinging, con	
PARIN BODÍWALLA	CUIC	PARINE MC bu	i Singux, com	99-49/08031
SCOTT ROLLER	HARROD +	istimatiogei	Herodand	720.788.3851
	ASSOC		ASSEC. COM	



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NAME	COMPANY	EMAIL	PHONE
CRAWFORD JONATHAN	8m SOLAR	J. CRAWFORD @ 8M SOLAR.	919
Tommy moveman	water to.	town moor mans water for	ava \$56-6354
BEANDON WILLIAMS	ADW	B. Williams @ ADLIARCHITECTS. COV	99244-4449
Dee Hoynh	CLH Design	Ma Dhuynh @ CLH DesignAcom	919 889 9246
Aron Martiner	Apex Dumpsters Ina	aronnelo@apexdumpstorsinc.com	9197580866
Carie Brooks	Aprel Dumpsters Inc.	admin@apexdumpstersinc.com	9/9-607-6676



CARY MAIN EMS STATION





OWNER:

WAKE COUNTY FACILITIES DESIGN & CONSTRUCTION 336 S. Fayetteville Street, Suite 1100 Raleigh, North Carolina 27601 p 919.856.6350

CIVIL ENGINEER:

CLH DESIGN, PA 400 Regency Forest Drive, Suite 120 Cary, North Carolina 27508 p 919.317.6716

PROJECT TEAM

adwarchitects environmentsforlife

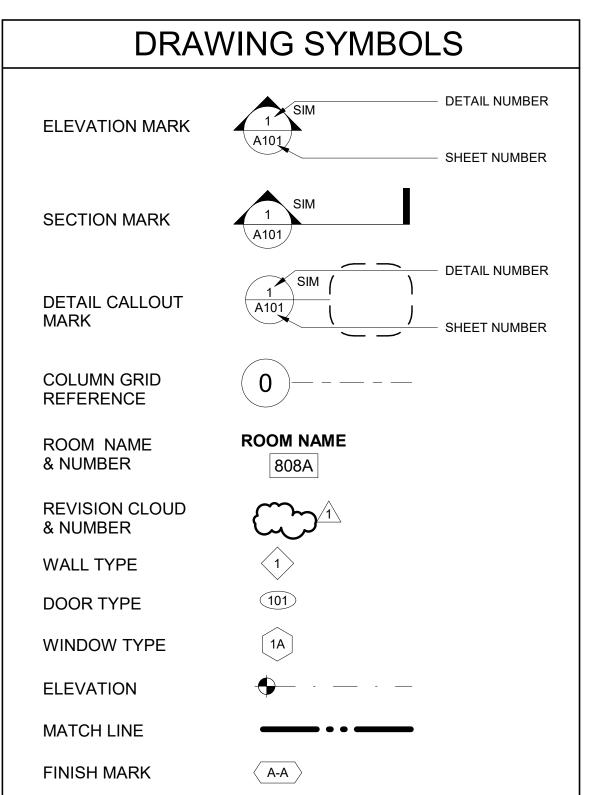
2815 Coliseum Centre Drive, Suite 500 Charlotte, North Carolina 28217 p 704.379.1919 f 704.379.1920

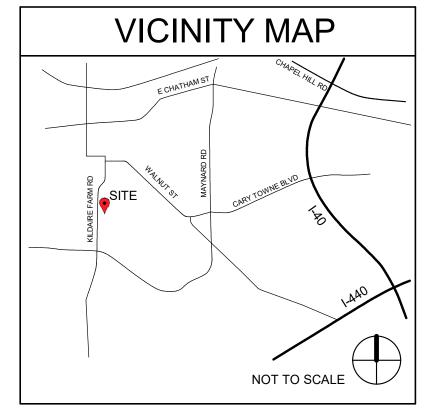
STRUCTURAL ENGINEER:

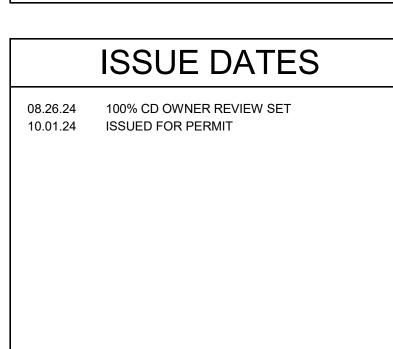
STEWART INC. 223 S. West Street Suite, 1100 Raleigh, North Carolina 27603 p 919.380.8750. f 919.380.8752

PLUMBING, MECHANICAL, ELECTRICAL, & FIRE PROTECTION:

SIGMA ENGINEERED SOLUTIONS, PC 5909 Falls of Neuse Road, Suite 101 Raleigh, North Carolina 27609 p 919.840.9300 f 919.840.9600









ABBREVIATIONS ROOF DRAIN EOS EDGE OF SLAB REFRIGERATOR EQ REINFORCE **EQUIPMENT** AUTOMATIC **ELECTRIC WATER** AUXILIARY RIGHT HAND RIGHT HAND REVERSE BOARD STORM DRAIN BUILDING **EXPANSION** SIMILAR EXPANSION JOIN SPECIFICATION **FAHRENHEIT** BTU MAINTENANCE SQUARE FABRICATE SQUARE FEET **CELSIUS** FLOOR DRAIN SQUARE INCHES CATCH BASIN FIRE EXTINGUISHER MEMO STREET **CONTROL JOIN** FIRE EXTINGUISHER STANDARD CENTERLINE **FEDERAL** CL TO CL CENTERLINE TO STRUCT STRUCTURAL FORMED FLOOR JOINT CENTERLINI **TONGUE & GROOVE** MISCELLANEOUS CLR CLEAR **TELEPHONE** CMU CONCRETE MASONRY FINISH FLOOR TELEVISION **TYPICAL** CO2 CARBON DIOXIDE FLOOR JOINT NEGATIVE UNLESS NOTED COL **OTHERWISE** NOT IN CONTRACT CONCRETE FACE OF BRICK VINYL COMPOSITION CONSTRUCTION FACE OF PANEL CONTINUOUS FACE OF STUD VERTICAL CONCRETE STAIN **VOLATILE ORGANIC** FEET PER MINUTE **OUTSIDE DIAMETER** CTR CENTER COMPOUND FEET PER SECOND OWNER FURNISHED CUBIC INCH WC WATER CLOSET INSTALLED CUBIC YARD OWNER FURNISHED GAUGE DBL OWNER INSTALLED GALLON DEPT DEPARTMENT GALVANIZE(D) OPPOSITE HAND GALV DRINKING FOUNTAIN OPPOSITE GENERAL DIAMETER PUBLIC ADDRESS GOVERNMENT DIMENSION PLATE GALLONS PER HOUR DS DOWN SPOUT PREFAB PREFABRICATED GALLONS PER MINUTE DWG PREFIN PREFINISHED GYPSUM WALL BOARD EA EACH PRELIM PRELIMINARY GYP GYPSUM ED EQUIPMENT DRAIN GYP BD GYPSUM BOARD PROJ PROJECT EEJ POUNDS PER SQUARE EXTERIOR EXPANSION HDW HARDWARE FOOT HEIGHT EXHAUST FAN POUNDS PER SQUARE HORIZ HORIZONTAL INCH ELEVATION HOUR PT PRESSURE TREATED ELECTRICAL HVAC HEATING, R (RAD) RADIUS ELEMENTARY VENTILATION, A/C RA RETURN AIR ELEV ELEVATOR

DETAIL NUMBERING SYSTEM

19	15	11	07	03	
18	14	10	06	02	
17	13	09	05	01	

ALTERNATES

- ALTERNATE #1 PROVIDE INSTALLATION OF ELECTRIC VEHICLE CHARGING STATION. SEE ELECTRICAL DRAWINGS FOR SCOPE OF WORK IN BASE BID & SCOPE OF WORK FOR
- SCOPE OF WORK TO BE PROVIDED FOR THE INSTALLATION. ALTERNATE #3 - OWNER PREFERRED ALTERNATE FOR ALL SOLAR PHOTOVOLTAIC EQUIPMENT AND START-UP SERVICES, INCLUDING, BUT NOT LIMITED TO, SOLAR PANELS POWER OPTIMIZERS. COMBINERS. AND INVERTERS WITH SOLAR EDGE TECHNOLOGIES, INC. BEING THE OWNER'S PREFERRED MANUFACTURER

ALTERNATE #2 - PROVIDE PV SYSTEM INSTALLATION. SEE

ELECTRICAL DRAWINGS FOR SCOPE OF WORK IN BASE BID &

CMU DETAILS

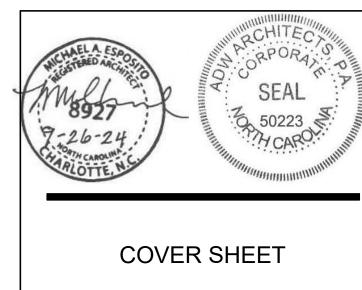
CMU DETAILS

STEEL FRAMING DETAILS STEEL FRAMING DETAILS STEEL FRAMING DETAILS STEEL ROOF DETAILS STEEL ROOF DETAILS

STEEL COLUMN DETAILS AND SCHEDULES

SHEET N	IO. SHEET TITLE	ISSUED REVI		INDEX SHEET NO.	SHEET TITLE
	O. SHEET TITLE	1990ED KEVI	SION		011111111111111111111111111111111111111
GENERAL A000	COVER SHEET	No 1		FIRE PROTECTION FP001	FIRE PROTECTION LEGEND AND NOTES
A001 A002	CODE INFORMATION - APPENDIX B FIRST FLOOR LIFE SAFETY PLAN	No 1		FP200 FP210	FIRE PROTECTION FIRST FLOOR PLAN FIRE PROTECTION SECOND FLOOR PLAN
A003 A004	SECOND FLOOR LIFE SAFETY PLAN WALL TYPES	No 1 No 1		FP300 FP301	FIRE PROTECTION DETAILS I
A905~~	UL DETAILS UL DETAILS	No 1		11 301	TIME TROTEGITON BETALES II
A006	OLDETAILS	No 1		PLUMBING	DILLIMDING LEGEND AND MOTES
CIVIL	<u>`/1\</u>			P001 P002	PLUMBING LEGEND AND NOTES PLUMBING SCHEDULES
C000 C101	COVER SHEET STAKING PLAN	No No		P200 P201	PLUMBING WASTE AND VENT FIRST FLOOR PLAN PLUMBING WATER AND GAS FIRST FLOOR PLAN
C201	EXISTING CONDITION PLAN	No		P210	PLUMBING WASTE AND VENT SECOND FLOOR PLAN
C202 C203	TREE SURVEY PLAN DEMOLITION PLAN	No No		P211 P220	PLUMBING WATER AND GAS SECOND FLOOR PLAN PLUMBING STORM DRAIN ROOF PLAN
C301 C302	GRADING PLAN STORM PROFILES	No No		P300 P500	PLUMBING RISER DIAGRAMS PLUMBING DETAILS
C303 C401	E CORNWALL ROAD PLAN & PROFILE INITIAL EROSION CONTROL PLAN	No No		P501 P502	PLUMBING FIRE PENETRATION DETAILS PLUMBING FIRE PENETRATION DETAILS
C402	EROSION CONTROL PLAN	No		1 302	I EUMBING FIRE FENETIATION DETAILS
C501 C502	SITE UTILITY PLAN SANITARY SEWER PLAN & PROFILE	No No		MECHANICAL	1
C601 C602	LANDSCAPE PLAN OFFSITE LANDSCAPE PLAN - WALNUT STREET PARK	No No		M001 M002	MECHANICAL LEGEND AND NOTES MECHANICAL SCHEDULES
C603	OFFSITE LANDSCAPE PLAN - SEARS FARM PARK	No		M200 M210	MECHANICAL FIRST FLOOR PLAN MECHANICAL SECOND FLOOR PLAN
C604 C701	OFFSITE LANDSCAPE PLAN - BOND PARK EROSION CONTROL DETAILS	No No		M220	COORDINATED ROOF PLAN
C702 C703	EROSION CONTROL DETAILS EROSION CONTROL DETAILS	No No		M500 M501	MECHANICAL DETAILS MECHANICAL DETAILS
C801	UTILITY/STORM DETAILS	No		M502 M503	MECHANICAL DETAILS MECHANICAL FIRE PENETRATION DETAILS
C802 C803	UTILITY/STORM DETAILS UTILITY/STORM DETAILS	No No		MOOO	MEGINATION ET INC. TENETION DE INICO
C804 C901	UTILITY/STORM DETAILS SITE DETAILS	No No		ELECTRICAL	
C902	SITE DETAILS	No		E001 E002	ELECTRICAL LEGEND ELECTRICAL GENERAL NOTES AND SCHEDULE
C903 C904	SITE DETAILS LANDSCAPE DETAILS	No No		E100 E101	ELECTRICAL SITE PLAN SITE DETAILS
C111 C112	SIGNAL PLANS SIGNAL PLANS	No No		E102	SITE DETAILS
C113	SIGNAL PLANS	No		E103 E201	SCADA DETAILS FIRST FLOOR ELECTRICAL LIGHTING PLAN
C114 C115	SIGNAL PLANS SIGNAL PLANS	No No		E202 E211	SECOND FLOOR ELECTRICAL LIGHTING PLAN FIRST FLOOR ELECTRICAL POWER PLAN
22-0329D 22-0329D	DUKE POWER SITE LIGHTING ARRANGEMENT (FOR REFERENCE ONLY) DUKE POWER SITE LIGHTING ARRANGEMENT (FOR REFERENCE ONLY)	No No		E212	SECOND FLOOR ELECTRICAL POWER PLAN
00_0				E213 E214	ROOF ELECTRICAL POWER PLAN PV SCHEMATICS
ARCHITECTUR		N.		E300 E301	ENLARGED PLANS ENLARGED PLANS
A100 A101	FIRST FLOOR PLAN SECOND FLOOR PLAN	No 1		E400	ELECTRICAL RISER AND SCHEDULES
A102 A103	FIRST FLOOR DIMENSIONS PLAN SECOND FLOOR DIMENSIONS PLAN	No 1		E500 E501	ELECTRICAL DETAILS ELECTRICAL DETAILS
A110	ROOF PLAN	No 1		E502 E503	ELECTRICAL DETAILS ELECTRICAL DETAILS
A111 A200	ROOF DETAILS EXTERIOR ELEVATIONS	No 1 No		E504	ELECTRICAL DETAILS
A201 A202	EXTERIOR ELEVATIONS ELEVATION DETAILS & MONUMENTAL SIGN	No No		FA201 FA202	FIRST FLOOR FIRE ALARM PLAN SECOND FLOOR FIRE ALARM PLAN
A203 A204	MOCK-UP PANEL & SITE RETAINING WALL DETAILS UTILITY ENCLOSURE DETAILS	No No		FA400 FA401	FIRE ALARM RISER AND DETAILS FIRE ALARM DETAILS
A300	BUILDING SECTIONS	No		T201 T202	FIRST FLOOR TELECOM PLAN SECOND FLOOR TELECOM PLAN
A301 A400	BUILDING SECTIONS WALL SECTIONS	No No		T400	TELECOM DETAILS
A401 A402	WALL SECTIONS WALL SECTIONS	No No		SS201 SS202	FIRST FLOOR SECURITY PLAN (FOR REFERENCE ONLY) SECOND FLOOR SECURITY PLAN (FOR REFERENCE ONLY)
A403	WALL SECTIONS	No		SS400	SECURITY DETAILS (FOR REFERENCE ONLY)
A404 A405	WALL SECTIONS WALL SECTIONS	No No			
A406 A407	WALL SECTIONS ENLARGED DETAILS	No No			
A408	ENLARGED DETAILS	No			
A500 A501	ENLARGED STAIR & ELEVATOR PLANS ENLARGED STAIR SECTIONS	No No			
A502 A503	ENLARGED STAIR SECTIONS, HANDRAIL, & GUARDRAIL DETAILS ENLARGED RAILING ELEVATIONS	No No			
A504 A505	ENLARGED ELEVATOR & SLIDE SECTIONS ENLARGED PLANS & DETAILS	No No			Γ
A510	ENLARGED TOILET PLANS & DETAILS	No			
A511 A600	TOILET AND LOCKER ELEVATIONS SCHEDULES (DOORS & WINDOWS)	No No			
A601 A602	DOOR HEAD/JAMB DETAILS AND OTHER ITEMS CURTAIN WALL & WINDOW ELEVATIONS	No No			4
A603	CURTAIN WALL & WINDOW ELEVATIONS CURTAIN WALL & STOREFRONT ELEVATIONS	No			Į.
A604 A700	CURTAIN WALL, STOREFRONT & WINDOW JAMB DETAILS FINISH LEGEND, SCHEDULE, NOTES & CODES	No No			\
A701 A702	FIRST FLOOR FINISH PLAN SECOND FLOOR FINISH PLAN	No No			
A703	TRANSITIONS, DETAILS, ENLARGED PLANS & ELEVATIONS	No			
A704 A705	INTERIOR ELEVATIONS INTERIOR ELEVATIONS	No No			
A800 A801	FIRST FLOOR REFLECTED CEILING PLAN & DETAILS SECOND FLOOR REFLECTED CEILING PLAN	No No			
A802	ENLARGED REFLECTED CEILING PLANS	No			
A900 A901	CASEWORK ELEVATIONS CASEWORK SECTIONS & DETAILS	No No			
A902	CASEWORK SECTIONS	No			
STRUCTURAL					
S001 S002	GENERAL NOTES ABBREVIATIONS AND SYMBOL LEGEND	No No			
S003	STATEMENT OF SPECIAL INSPECTIONS	No			
S004 S100	STATEMENT OF SPECIAL INSPECTIONS FOUNDATION PLAN	No No			
S110 S111	SECOND FLOOR & LOW ROOF FRAMING PLAN SECOND FLOOR SLAB PLAN	No No			
S120	ROOF FRAMING PLAN	No			
S121 S200	SNOW DRIFT LOADING PLAN FRAMING ELEVATIONS	No No			
S300 S301	SLAB ON GRADE DETAILS FOUNDATION DETAILS	No No			
S302	FOUNDATION DETAILS	No			
S303 S400	FOUNDATION SECTIONS CMU DETAILS	No No			

RFB#24-086

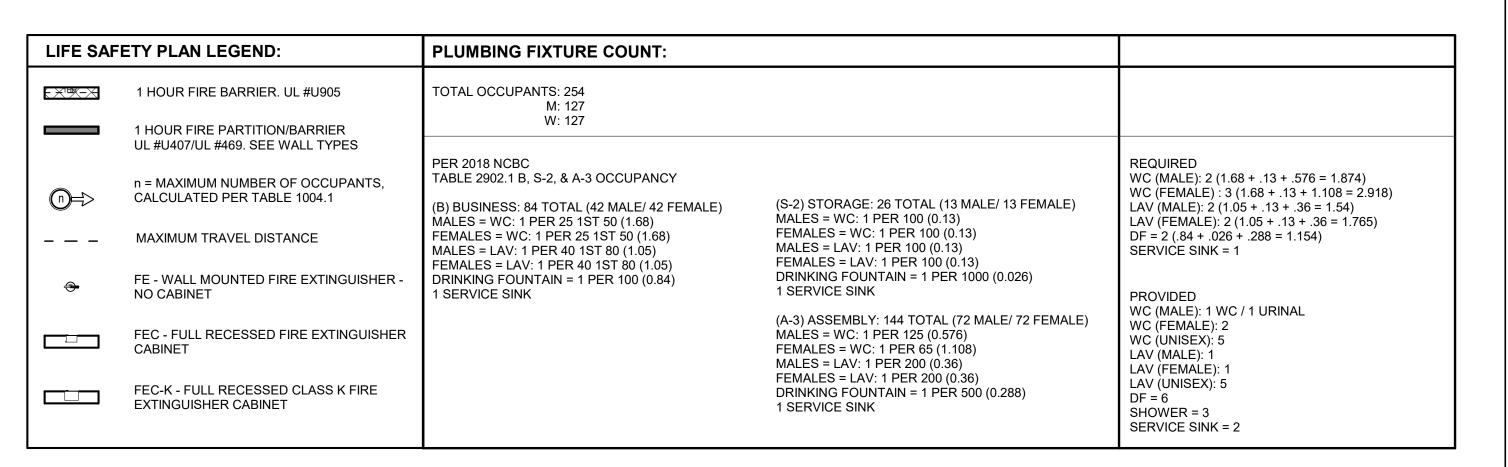


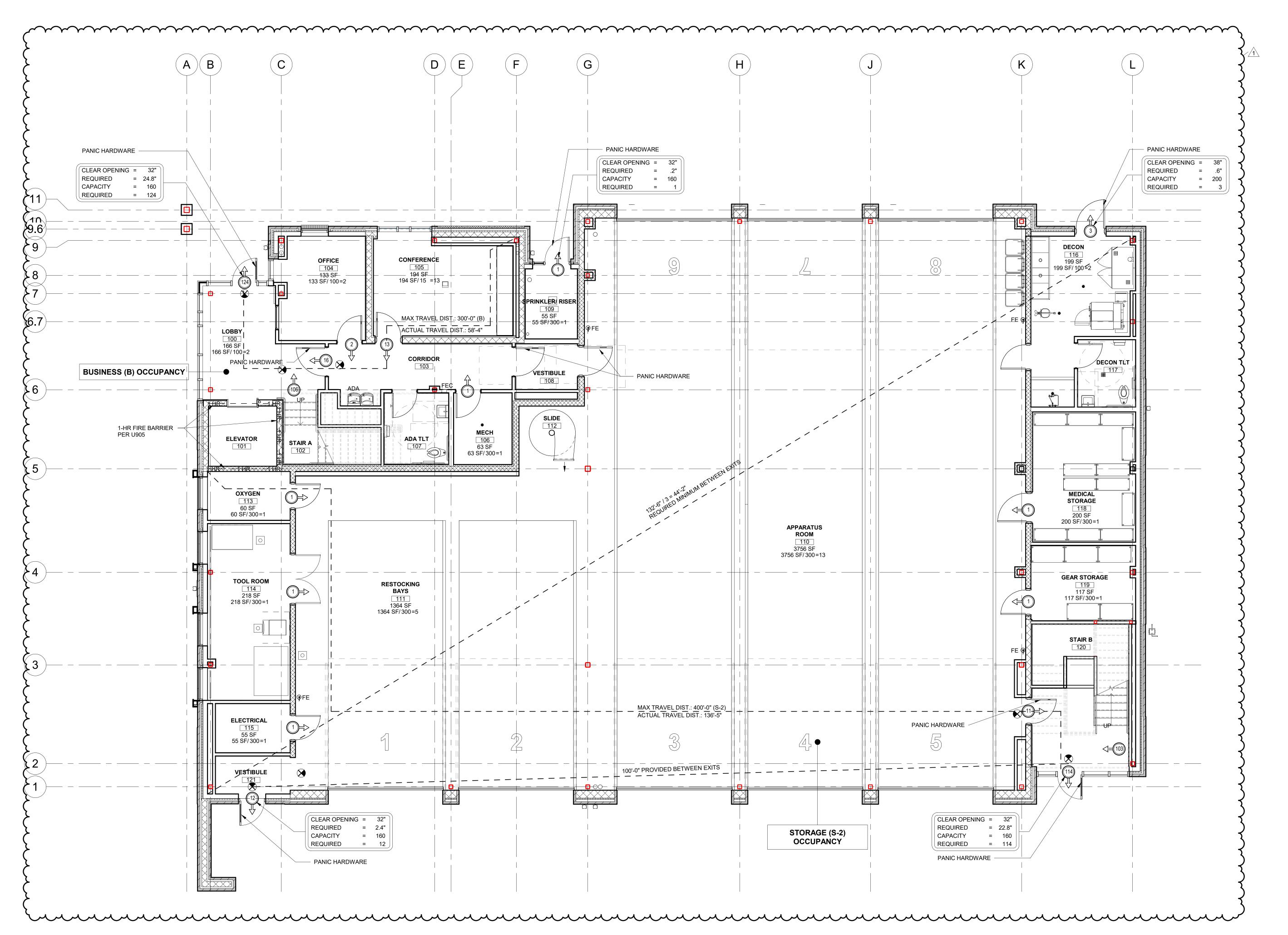
PROJECT NO: REVISIONS NO: DATE: 1 10-11-24

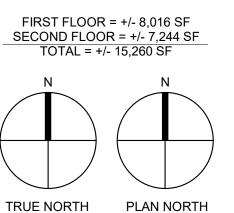
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SHEET NUMBER

10-07-24





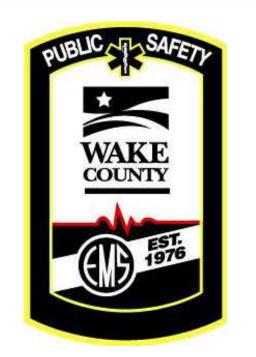


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2815 COLISEUM CENTRE DRIVE
SUITE 500
CHARLOTTE, NORTH CAROLINA 28217
P704.379.1919
F704.379.1920
www.adwarchitects.com





CARY MAIN EMS STATION

819 Kildaire Farm Road Cary, NC

Development Plan #23-DP-4187

RFB#24-086

FIRST FLOOR LIFE SAFETY PLAN

DATE: PROJECT NO:

REVISIONS

NO: DATE:

DATE: DESCRIPTION: 10-11-24 Addendum #1 - Pe Comments

10-07-24

21046

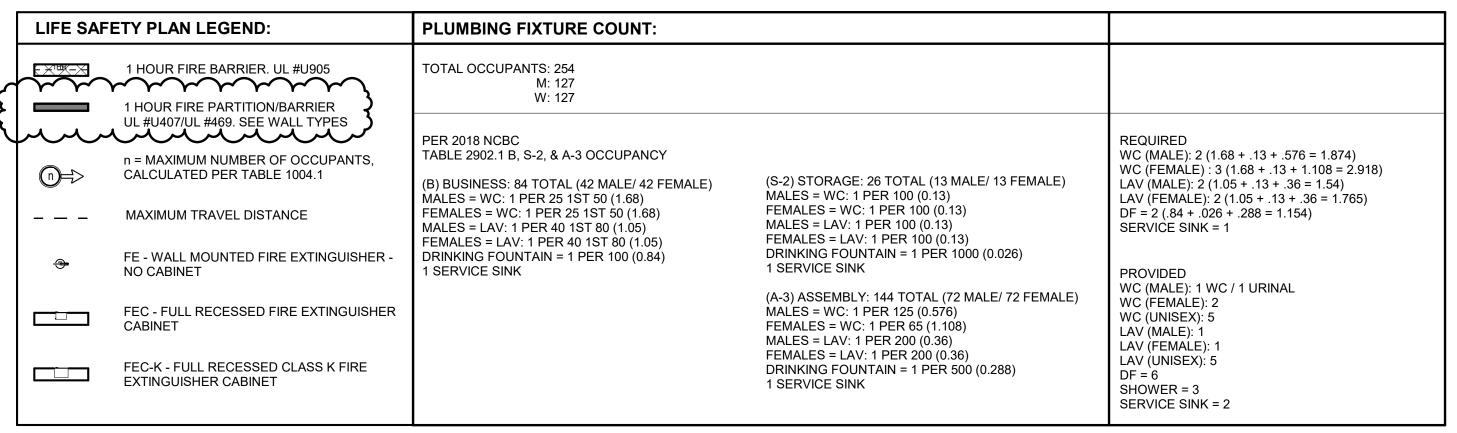
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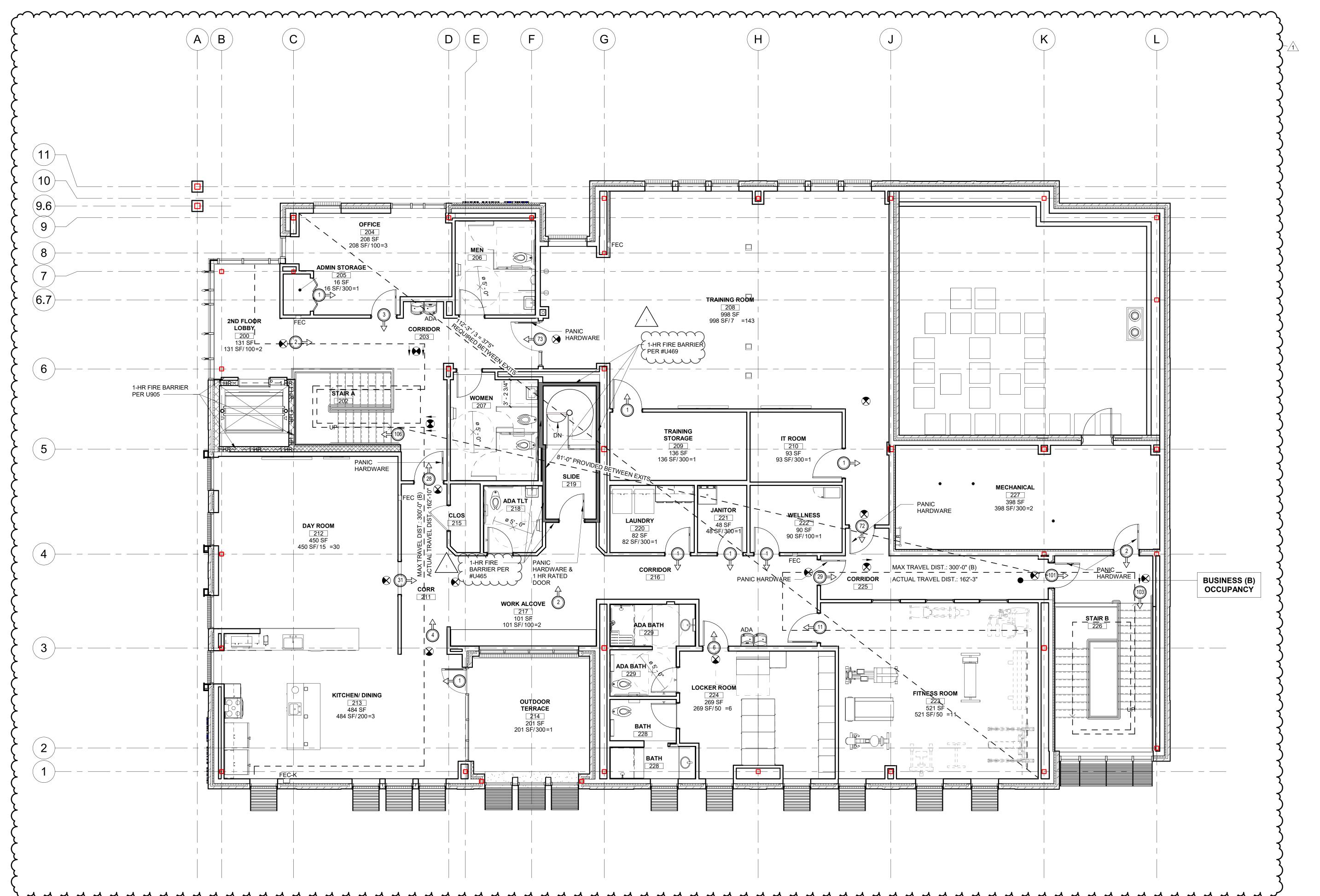


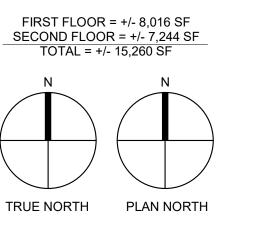
SHEET NUMBER



A002









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2815 COLISEUM CENTRE DRIVE
SUITE 500
CHARLOTTE, NORTH CAROLINA 28217
P704.379.1919
F704.379.1920
www.adwarchitects.com





CARY MAIN EMS STATION

819 Kildaire Farm Road Cary, NC

Development Plan #23-DP-4187

RFB#24-086

SECOND FLOOR LIFE SAFETY PLAN

> 10-07-24 21046

DATE:
PROJECT NO:

PROJECT NO:

O: DATE: DESCRIPTION: 10-11-24 Addendum #1 - Pe Comments

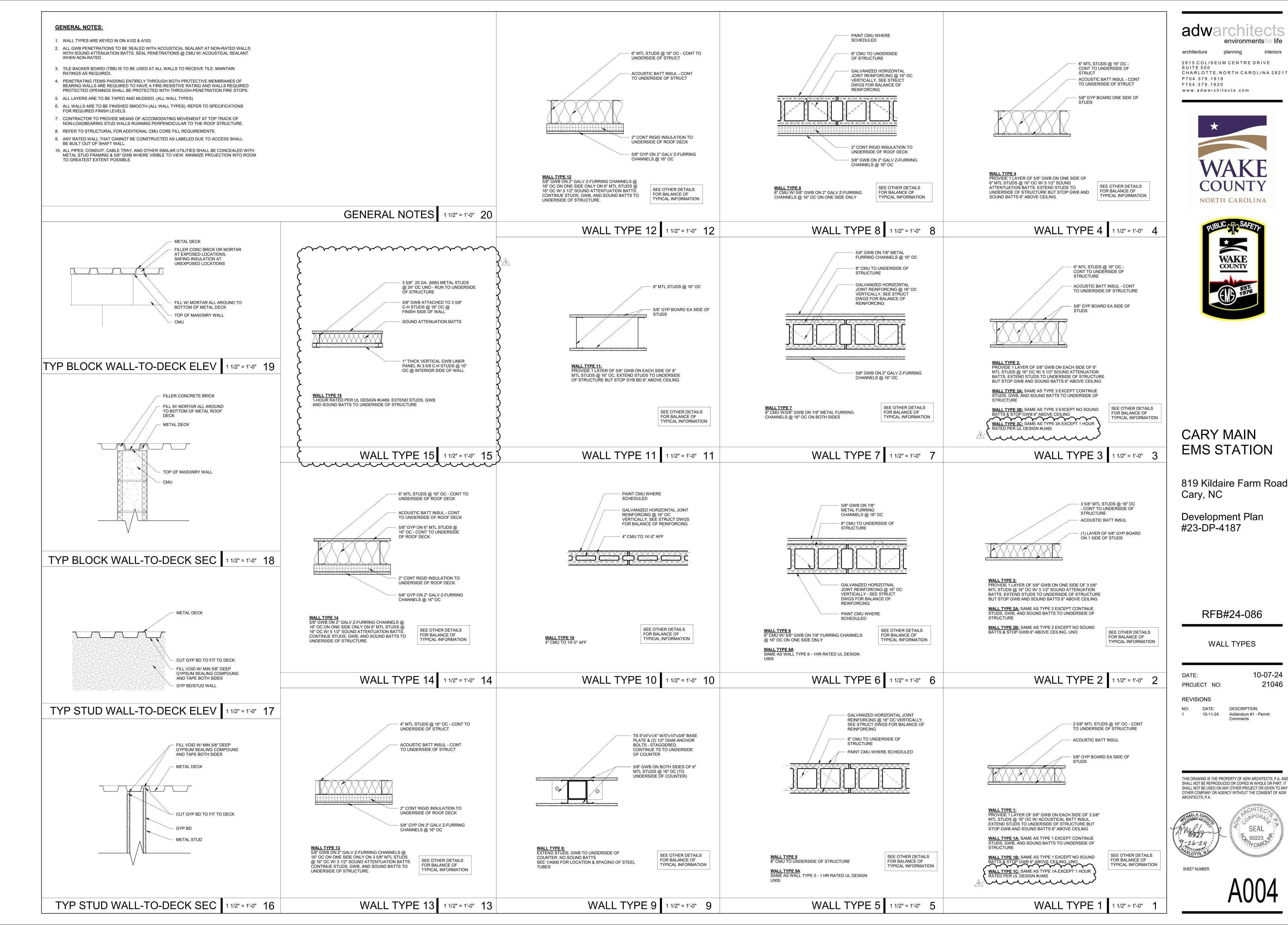
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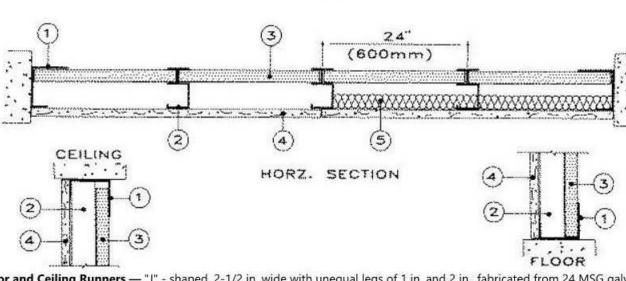
SHEET NUMBER



A003



Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



. Floor and Ceiling Runners — "J" - shaped, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 24 MSG galv steel (min 20 MSG steel required when Item 4A, 4B, or 4C is used). Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.

2. Steel Studs — "C-H" shaped studs, 2-1/2 in. wide by 1-1/2 in. deep, fabricated from min 25 MSG galv steel (min 20 MSG steel required when Item 4A, 4B, or 4C is used), spaced 24 in. or 600 mm OC (max 16 in. OC when Item 4A, 4B, or 4C is used). Vertically restrained walls require studs to be cut 3/8 in. less than floor to ceiling height.

3. Gypsum Board* — 1 in. thick gypsum wallboard liner panels, supplied in nominal 24 in. or 600 mm widths. Vertical edges inserted in "H" shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" runners with 1-5/8 in. long Type S head steel screws spaced not greater than 12 in. OC. CERTAINTEED GYPSUM INC — Types Shaftliner, EGRG Shaftliner or GlasRoc Shaftliner

CGC INC — Type SLX.

CERTAINTEED GYPSUM INC — Type LGFCSL

GEORGIA-PACIFIC GYPSUM L L C — Types TP-6, DGUSL, and TRSL

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX.

4. Gypsum Board* — 5/8 in. thick, 4 ft or 1200 mm wide, applied vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards. AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc.

CABOT MANUFACTURING ULC — 5/8 Type X, Type Blueglass Exterior Sheathing

CERTAINTEED GYPSUM INC — Type C, Type X-1.

CGC INC — Types C, IP-X1, IP-X2, IPC-AR, SCX, ULIX, ULX, or WRC.

CERTAINTEED GYPSUM INC — Types LGFC-C, LGFC-C/A, LGFC6A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type TG-C, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-11, PG-C, PGS-WRS, PGI

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Types C, FRX-G, IP-X1, IP-X2, IPC-AR, SCX, ULIX, ULX or WRC.

USG BORAL DRYWALL SFZ LLC — Types C, SCX

USG MEXICO S A DE C V — Types C, IP-X1, IP-X2, IPC-AR, SCX, ULX, or WRC.

4A. Gypsum Board* — Not Shown - As an Alternate to Item 4. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips (Item 6) required behind vertical joints RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. Gypsum Board* — Not Shown - As an Alternate to Item 4. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints. To be used with Lead Batten Strips (see Item 6B) or Lead Discs (see Item 6C). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4C. Gypsum Board* — (Not Shown - As an Alternate to Item 4.). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Batts and Blankets* — (Optional) — Mineral wool batts partially or completely filling stud cavity. ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m³

THERMAFIBER INC — Type SAFB, SAFB FF

5A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. Applegate Greenfiber Acquisition LLC — INS735, INS745, INS750LD, and Insulmax for use with wet or dry application. INS765LD and INS773LD are to be used for dry application only.

5B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC — Cellulose Insulation

5C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3. INTERNATIONAL CELLULOSE CORP — Celbar-RL

5E. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3. APPLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

6. Lead Batten Strips — For Use with Item 4A - (Not Shown) — Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

.6A. Lead Discs or Tabs — (Not Shown) - Used in lieu of or in addition to the lead batten strips (Item 6) or optional at other locations -Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6B. Lead Batten Strips — (Not Shown, for use with Item 4B) Lead batten strips, 2 in, wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".

6C. Lead Discs — (Not Shown, for use with Item 4B) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

architecture planning 2815 COLISEUM CENTRE DRIVE

SUITE 500 CHARLOTTE, NORTH CAROLINA 28217 P704.379.1919 F704.379.1920 www.adwarchitects.com





CARY MAIN **EMS STATION**

819 Kildaire Farm Road Cary, NC

Development Plan #23-DP-4187

RFB#24-086

UL DETAILS

10-07-24

21046

DATE:

PROJECT NO:

REVISIONS

DESCRIPTION: 10-11-24 Addendum #1 - Permit

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SHEET NUMBER



1-HR FIRE BARRIER UL# U905 NTS

Design No. U905

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design

Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used —

See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

2. Mortar — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to classification if used. Where combustible members are framed in wall,

plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks

4. Loose Masonry Fill — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water

ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

DUPONT DE NEMOURS, INC. — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building

Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax Plus

Liner Panel, Thermax Heavy Duty Plus (HDP), TUFF-R™ ci Insulation, Thermax Butler Stylwall Insulation Board and Thermax Morton Heavy Duty

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci",

5A. Building Units* — As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification

(such as Canada), respectively.

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

"ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

5. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints

Horizontal Section

June 6, 2022

1. Concrete Blocks* — Various designs. Classification D-2 (2 hr).

See Concrete Blocks category for list of eligible manufacturers.

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

Last Updated on 2022-06-06

Nonbearing Wall Rating - 1 HR.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification

(such as Canada), respectively.

. Floor and Ceiling Runners — (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25

1A. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in.

18. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 28, proprietary channel

shaped runners, 1-1/4 in, wide by min 3-5/8 in, deep fabricated from min 0.020 in, thick galv steel, attached to floor and ceiling with

C. Floor and Ceiling Runners — (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosion-

1D. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1C — For use with Item 2D and 4G

only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached

E. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I

F. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel

1G. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1F — For use with Item 2, channel

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate

stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to

I. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel

shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with

J. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 — For use with Item 2 L, proprietary

channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and

1K. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channe

shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to

L. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel

shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with

1M. Framing Members* - Floor and Ceiling Runners - Not shown - In lieu of Items 1 through 1L - For use with Item 20, proprietary channel

1N. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 – For use with Item 2P, proprietary channel shaped

runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24

O. Framing Members* — Floor and Ceiling Runner — (Not Shown — Alternate to Item 1) — For use with Item 2Q, channel shaped runners

pre-equipped with proprietary attachment clips. Min. 3-5/8 in. wide. Legs of top runners minimum 3-1/4 in. wide. Legs of bottom runners

P. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 – For use with Item 2R, proprietary channel shaped

runners, 1-1/4 in. wide by min. 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, attached to floor and

Q. Framing Members* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 — For use with Item 2R, proprietary channel shaped

runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24

. Steel Studs — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut

2A. Framing Members* — Steel Studs — As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep, spaced a max of 24

2B. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel

C. Steel Studs — (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion-

protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut

studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly

OLIDATED FABRICATORS CORP. BUILDING PRODUCTS DIV — Type SUPREME D24/30FOD and Type SUPREME D20

minimum 1-1/2 in. wide. Runners attached to floor and ceiling with fasteners 24 in. OC max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item 2C studs.

JJC INTERNATIONAL DISTRIBUTORS — Non-structural Tracks 3-5/8" and 6".

haped runners, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness), attached to

shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max.

shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners

only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached

protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

deep, attached to floor and ceiling with fasteners 24 in. OC. max.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

to floor and ceiling with fasteners spaced 24 in. OC max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

to floor and ceiling with fasteners spaced 24 in. OC max.

floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

TELLING INDUSTRIES L L C — TRUE-TRACK™

fasteners spaced 24 in. OC max.

CEMCO, LLC — Viper20™ Track

spaced max 24 in. OC.

DMFCWBS L L C — ProTRAK

spaced 24 in. OC max.

KIRII (HONG KONG) LTD — Type KIRII

asteners spaced 24 in. OC max

CEMCO, LLC - Viper X Track

fasteners spaced 24 in. OC max

CRACO MFG INC - SmartTrack20™

ceiling with fasteners spaced 24 in. OC max.

floor and ceiling with fasteners spaced 24 in. OC max.

floor and ceiling with fasteners spaced 24 in. OC max.

PANEL REY S A - SUPRA Track 20EQ/19 mil

HYPERFRAME INC - Hypertrack

ceiling with fasteners spaced 24 in. OC max.

IRONLINE METALS LLC — Bantam Track.

3/4 in. less than assembly height.

CEMCO, LLC - Viper20™

CRACO MFG INC - SmartStud20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

in. OC. Studs to be cut 3/4 in. less than assembly height.

PANEL REY S A - SUPRA Track 20/33 mil

RESCUE METAL FRAMING, L L C - AlphaTRAK

MBA METAL FRAMING - ProTRAK

RAM SALES L L C - Ram ProTRAK

MBA METAL FRAMING — ProSTUD

assembly height.

RAM SALES L L C - Ram ProSTUD STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

TELLING INDUSTRIES L L C — TRUE-STUD™

2E. Framing Members* — Steel Studs — As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than

2F. Framing Members* — Steel Studs — As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height. KIRII (HONG KONG) LTD — Type KIRII

2D. Framing Members* — Steel Studs — As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped

2G. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height. STUDCO BUILDING SYSTEMS — CROCSTUD

2H. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 11, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™

2l. Framing Members* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. EB METAL INC - NITROSTUD

2J. Framing Members* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. OLMAR SUPPLY INC - PRIMESTUD

2K. Framing Members* — Steel Studs — As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height. MARINO/WARE, DIV OF WARE INDUSTRIES INC - StudRite™

2L. Framing Members* — Steel Studs — As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. RESCUE METAL FRAMING, L L C — AlphaSTUD

2M. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in. less in length than assembly height. CEMCO, LLC - Viper X

2N. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly CRACO MFG INC - SmartStud20™

2O. Framing Members* - Steel Studs - Not Shown - In lieu of Items 2 through 2N - For use with Item 1M, proprietary channel shaped steel studs, min 1-5/8 in. wide by min 3-5/8 in. deep fabricated from min 20 MSG galv steel (0.0329 in. min bare metal thickness) spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

2P. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 – For use with Item 1N, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height. PANEL REY S A - SUPRA Stud 20EQ/19 mil

2Q. Framing Members* — Steel Studs — (Not Shown — Alternate to Item 2, For use with Item 10) — Channel shaped steel studs with attachment clips at top and bottom, min 3-5/8 in. depth, spaced a max of 24 in. OC. Studs dipped into floor and ceiling runners (Item 10). Max 2-3/8 in. extension reveal from top of stud to inside of ceiling runner. HYPERFRAME INC— Hyperstud

2R. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 – For use with Item 1P, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min. 20 EQ/22 mils. (min. 0.0221 in. thick) galvanized steel, spaced 24 in. OC max. Studs cut 3/4 JJC INTERNATIONAL DISTRIBUTORS — Non-structural Studs 3-5/8" and 6".

2R. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 – For use with Item 1Q, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min. min. 0.018 in. thick galvanized steel, spaced 24 in. OC max. Studs cut 3/4 in. less in length than assembly height.

IRONLINE METALS LLC — Bantam Stud.

NU-WOOL CO INC — Cellulose Insulation

INTERNATIONAL CELLULOSE CORP — Celbar-RL

Walltite® Plus and Enertite® Max.

Batts and Blankets* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. See Batts and Blankets (BZJZ) category for names of Classified companies.

ROCKWOOL — Type AFB, min. density 1.69 pcf / 27.0 kg/m³ ROCKWOOL MALAYSIA SDN BHD - Type Acoustical Fire Batts

3A. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. Applegate Greenfiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

3B. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

3C. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

3D. Batts and Blankets* - For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit between the studs and floor and ceiling runners.

See Batts and Blankets (BZJZ) category for names of manufacturers. 3E. Batts and Blankets* — For use with Item 4R and 4S. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 3F. Fiber, Sprayed* — As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3.

Applegate Greenfiber Acquisition LLC— Applegate Advanced Stabilized Cellulose Insulation

3G. Foamed Plastic* — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG

3H. Foamed Plastic* — As an alternate to Batts and Blankets (Items 3-3F), for use with Item 4U — Spray applied, foamed plastic insulation, at any

CARLISLE SPRAY FOAM INSULATION — Types SealTite ONE, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with min. 20 MSG BASF CORP - Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Spraytite® Comfort XL, Walltite® XL, Walltite® MAX, Walltite® LWP,

4. Gypsum Board* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws

spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When Steel Framing Members* (Item 6 or any alternate clips) are used, gypsum board is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, LightRoc BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with

CERTAINTEED GYPSUM INC — Types EGRG, GlasRoc, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2, Type LWTX

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, Veneer Plaster Base - Type X, Water Rated -USG BORAL DRYWALL SFZ LLC - Type C Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-

Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW-C, FSW-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSL, RSX:

DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X,

NATIONAL GYPSUM CO - Riyadh, Saudi Arabia - Type FR, or WR

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS, PGI PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX, PRX2

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV Air, Gyproc DuraLine MR ACTIV Air, Gyproc DuraLine M2TECH ACTIV Air SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C

UNITED STATES GYPSUM CO - Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX, (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX) USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4A. Gypsum Board* — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be

increased to 12 in. OC in field and perimeter. CERTAINTEED GYPSUM INC — Type X-1, Type C, Type EGRG/ GlasRoc, GlasRoc-2, Type SilentFX, Easi-Lite Type X-2

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with

CERTAINTEED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD GEORGIA-PACIFIC GYPSUM L L C — Types DAP, DAPC, DGG, DS

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type X and Type C, M2Tech Type C UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX) USG MEXICO S A DE C V - Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

4B. Gypsum Board* — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw

length increased to 1-1/4 in. CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR USG MEXICO S A DE C V — Types AR, IP-AR

4C. Gypsum Board* — As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in, and 4 in, from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of study on interior walls need not be staggered or backed by steel framing. GEORGIA-PACIFIC GYPSUM L L C — Type DGG, GreenGlass Type X

4D. Gypsum Board* — As an alternate to Items 4, 4A, 4B, 4C, 4G — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field, and 12 in. along the top and bottom of the wall. When used in widths other than 48 in., gypsum panels to be installed horizontally. When studs (Item 2) spaced a max 16 in. OC,

5/8 in. thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in. OC along vertical edges and in the field, and 10

in. OC along top and bottom of wall. NATIONAL GYPSUM CO - Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW-3, FSW-5, FSW-6, FSMR-C

4E. Gypsum Board* — (As an Alternate to Items 4 through 4D) – Installed as described in item 4. 5/8 in. thick, 4 ft wide, applied vertically only and fastened to the studs and plates with 1 in. long Type S steel screws spaced 12 in. OC. When studs (Item 2) spaced a max 16 in. OC, 5/8" in. thick gypsum panels applied vertically or horizontally with 1 in. long Type S steel screws spaced 16 in. OC along vertical edges and in the field, and 16 in. OC along top and bottom of wall. NATIONAL GYPSUM CO - Type SBWB

4F. Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. RAY-BAR ENGINEERING CORP — Type RB-LBG

4G. Gypsum Board* — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using Types eXP-C, FSK, FSK-C, FSK-G, FSW-G, FSW-G, FSW-3, FSW-3, FSW-5, FSW-6, FSMR-C and ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. CGC INC — Type SCX, ULIX

CERTAINTEED GYPSUM INC — Type LGFC6A, LGFC-C/A NATIONAL GYPSUM CO - Types eXP-C, FSK, FSK-C, FSK-G, FSW-C, FSW-G, FSW-3, FSW-3, FSW-6, and FSMR-C

UNITED STATES GYPSUM CO — Type SCX, ULIX USG BORAL DRYWALL SFZ LLC - Type SCX

4H. Gypsum Board* — (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and

secured as described in Item 4 PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

4l. Gypsum Board* — (As an alternate to Items 4 through 4F) — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in, OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. When using ULIX, panels need not be staggered in horizontal applications and screw spacing can be increased to 12 in. OC in field and perimeter. CGC INC — Types SCX, ULIX

UNITED STATES GYPSUM CO — Types SCX, ULIX USG BORAL DRYWALL SFZ LLC - Type SCX

4J. Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4K. Gypsum Board* — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A. CGC INC — Type ULX

UNITED STATES GYPSUM CO - Type ULX

USG MEXICO S A DE C V — Type ULX

4L. Gypsum Board* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

4M. Gypsum Board* — (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C CGC INC — Types C, IP-X2, IPC-AR CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C - Types 5, DAPC, TG-C NATIONAL GYPSUM CO - Types eXP-C, FSK-C, FSW-C PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Types PRC, PRC2 SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

THAI GYPSUM PRODUCTS PCL — Type C, M2Tech Type C

INITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

4N. Wall and Partition Facings and Accessories* — (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4 PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4O. Gypsum Board* — As an alternate to Items 4, 4A, 4B, and 4C — Two layers Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall. NATIONAL GYPSUM CO - Type FSW

4P. Gypsum Board* — As an alternate to Item 4. Nom 5/8 in. thick, 4 ft wide, Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Panels attached to steel studs and runners with 1 in. long Type S steel screws spaced 12 in. OC when applied horizontally or vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Types ULIX

4Q. **Gypsum Board*** — 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min. 1- 1/8 in. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

4R. Gypsum Board* — As an alternate to Item 4D. For use with Item 3E, Batts and Blankets* — 5/8 in. thick, 4 ft wide, installed as described in Item 4. When study (Item 2) spaced a max 16 in, OC, 5/8 in, thick gypsum panels applied vertically or horizontally, 1 in. long spaced 16 in, OC along vertical edges and in the field, and 16 in, OC along top and bottom of wall. NATIONAL GYPSUM CO — Type FSLX.

4S. Gypsum Board* - As an alternate to Item 4. For use with Item 3E, Batts and Blankets* - 5/8 in. thick, 4 ft wide, installed as described in Item 4A. CERTAINTEED GYPSUM INC — Type CLLX.

4T. Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545

4U. Gypsum Board*— (As an alternate to Item 4 when Foam Plastic insulation Items 3G or 3H is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

4V. Gypsum Board* — (As an alternate to Item 4, for 1 hr. rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along the top and bottom edges of the wall for both vertical and horizontal applications. CERTAINTEED GYPSUM INC — Type X-1, SilentFX, GlasRoc, Type C

5. Joint Tape and Compound — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in, wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in, thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges.

6. Resilient Channel — (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item 4F, 4J or 4L.

6A. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L.

b. Framing Members* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in. wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in, wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in, wide furring channels. PAC INTERNATIONAL L C — Types RSIC-1, RSIC-1 (2.75)

6B. Framing Members* — — (Optional on one or both sides, Not Shown, As an alternate to Item 6) — Furring channel and Steel Framing Members as described below a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4. Not for use with

b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type Genie Clip

6C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

6D. Steel Framing Members* — (Optional, Not Shown As an alternate to Item 6) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members* — UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip

6E. Steel Framing Members* — (Optional, Not Shown As an alternate to Item 6) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6F Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as a Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 4.

b Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L.

b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC., and secured to studs with

No. 10 x 2 in. screw through the center hole. Furring channels are friction fit into clips.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

MASON INDUSTRIES INC — Type CWC-50

7. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL

Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener

length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

8. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board laver (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and Blankets, Item 3D, and Adhesive, Item 11, are required. HOMASOTE CO — Homasote Type 440-32

> 8A. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 4) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated for use with Item 4M. BLUE RIDGE FIBERBOARD INC — SoundStop

8B. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to study with length of fasteners increased by 1/2 in. over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are optional unless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M. HOMASOTE CO — Homasote Type 440-32

9. Lead Batten Strips — (Not Shown, For Use With Item 4E) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4J) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4J) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips (Item 8) or

optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads

or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the

adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". 10A. Lead Discs — (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or

11. Adhesive — Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8).

12. Wall and Partition Facings and Accessories* — (CLBV) (Optional, Not Shown) — For use with Items 1 to 1I, Items 2 to 2J, Item 3, Items 4 to 4I, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in membrane to be overlapped by 2 inches. When RefleXor membrane is used an additional layer of Gypsum Board that is identical to the one used in the first layer and as specified in Item 4 to Item 4I shall be installed over the membrane. The additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4l except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity as per Item 3.

On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with min. 1-1/4 in. long drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 4I with the fastener length increased by minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

Alternately, on the other side of the wall prior to the installation of the Gypsum Board, install 3/4 in. thick SONOpan panels, secured to one side of studs either horizontally or vertically. Panels secured to each stud with min. 1-1/4 in. long drywall screws spaced 12 in. OC. Over the SONOpan, install 25 MSG galv steel, Resilient Channels, spaced vertically 24 in. OC. Resilient Channels fastened through panels to each stud with min. 2 in. long drywall screws or self-tapping screws. Over the Resilient Channels install Gypsum Board as specified in Item 4 to Item 4l with the specified drywall screws. Panels not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. MSL — RefleXor membrane, SONOpan panel

13. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

Last Updated on 2024-06-14

architecture

2815 COLISEUM CENTRE DRIVE SUITE 500 CHARLOTTE, NORTH CAROLINA 28217 P704.379.1919 F704.379.1920 www.adwarchitects.com





CARY MAIN **EMS STATION**

819 Kildaire Farm Road Cary, NC

Development Plan #23-DP-4187

RFB#24-086

UL DETAILS

10-07-24

PROJECT NO:

DATE:

REVISIONS

10-11-24 Addendum #1 - Permit

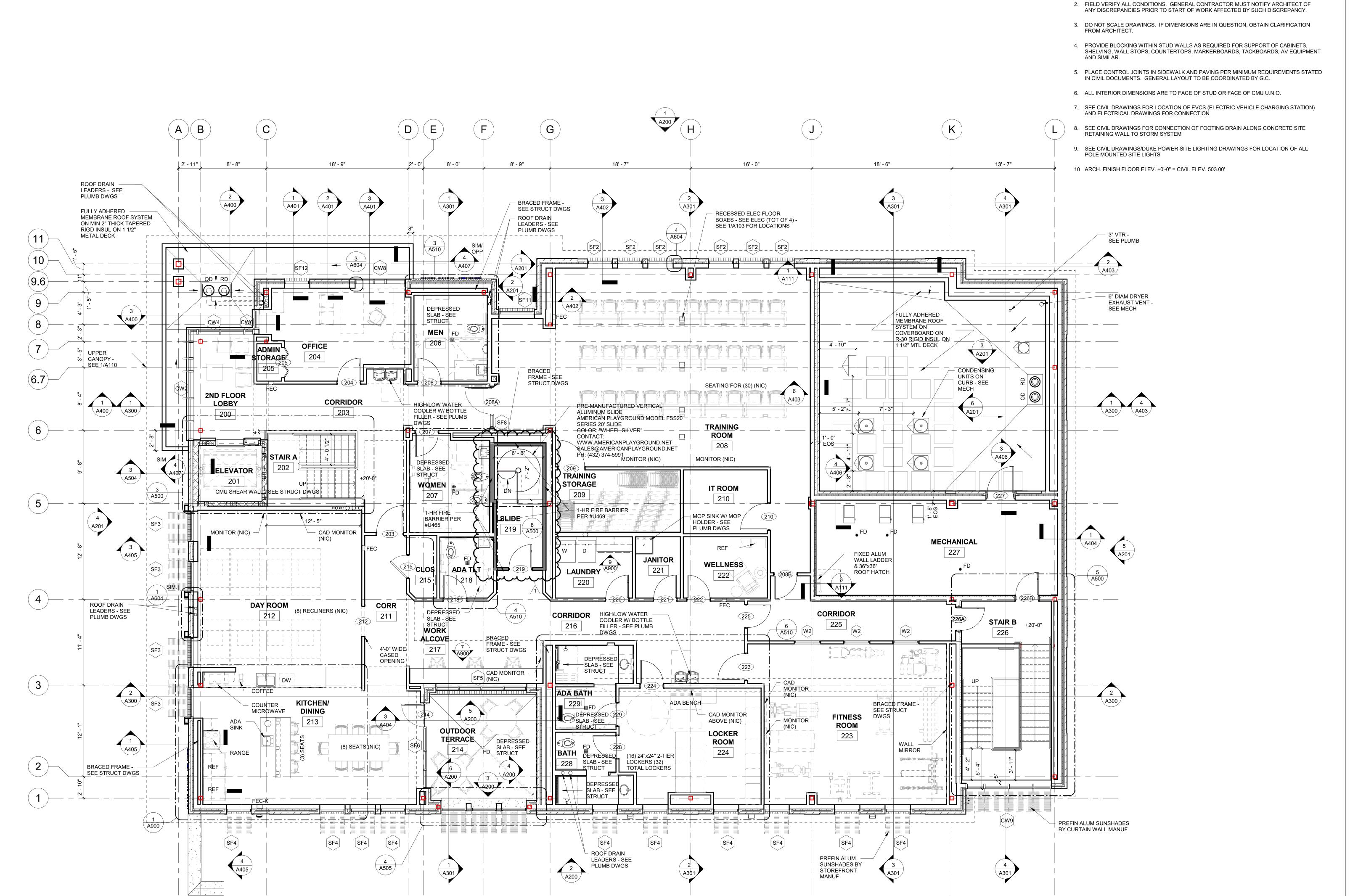
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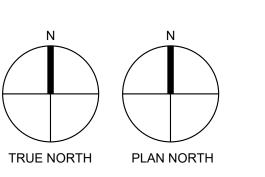
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1-HOUR FIRE BARRIER UL #465 NTS





architecture 2815 COLISEUM CENTRE DRIVE SUITE 500 CHARLOTTE, NORTH CAROLINA 28217

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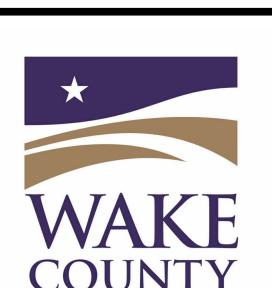
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GENERAL SHEET NOTES

1. ALL ARCHITECTURAL COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE 7-05 CHAPTER 13 SEISMIC DESIGN FOR NONSTRUCTURAL COMPONENTS. EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC

DESIGN AND DOCUMENTATION PREPARED BY A LICENSED ENGINEER. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE

INCLUDED IN EACH CONTRACTOR'S BID PROVIDING THE COMPONENT.





CARY MAIN **EMS STATION**

819 Kildaire Farm Road Cary, NC

Development Plan #23-DP-4187

RFB#24-086

SECOND FLOOR PLAN

10-07-24

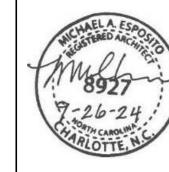
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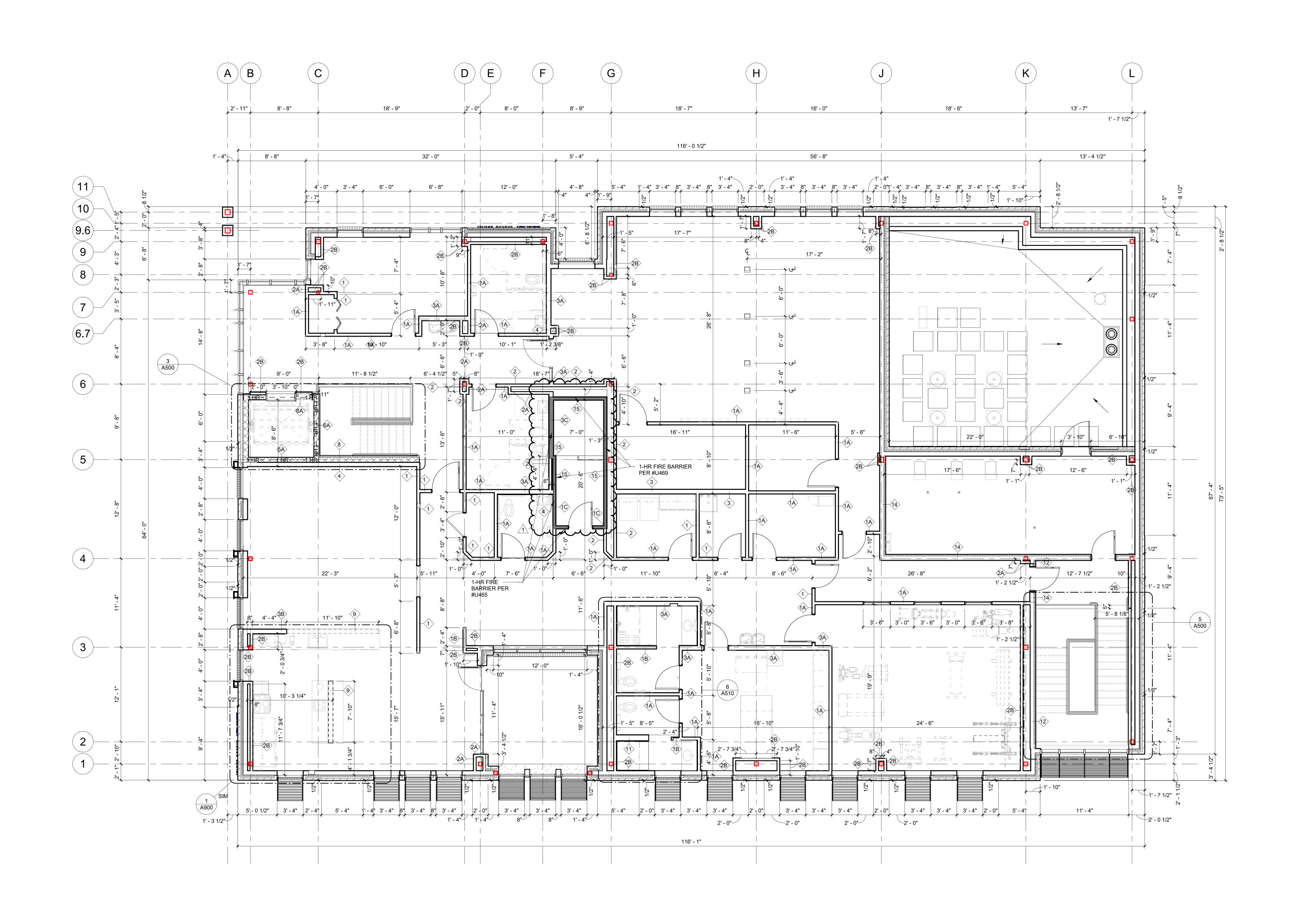
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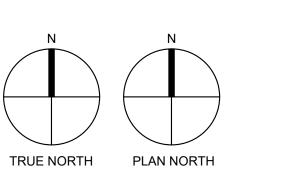
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SUITE 500
CHARLOTTE, NORTH CAROLINA 28217
P704.379.1919
F704.379.1920

www.adwarchitects.com





CARY MAIN EMS STATION

819 Kildaire Farm Road Cary, NC

Development Plan #23-DP-4187

RFB#24-086

SECOND FLOOR DIMENSIONS PLAN

10-07-24 21046

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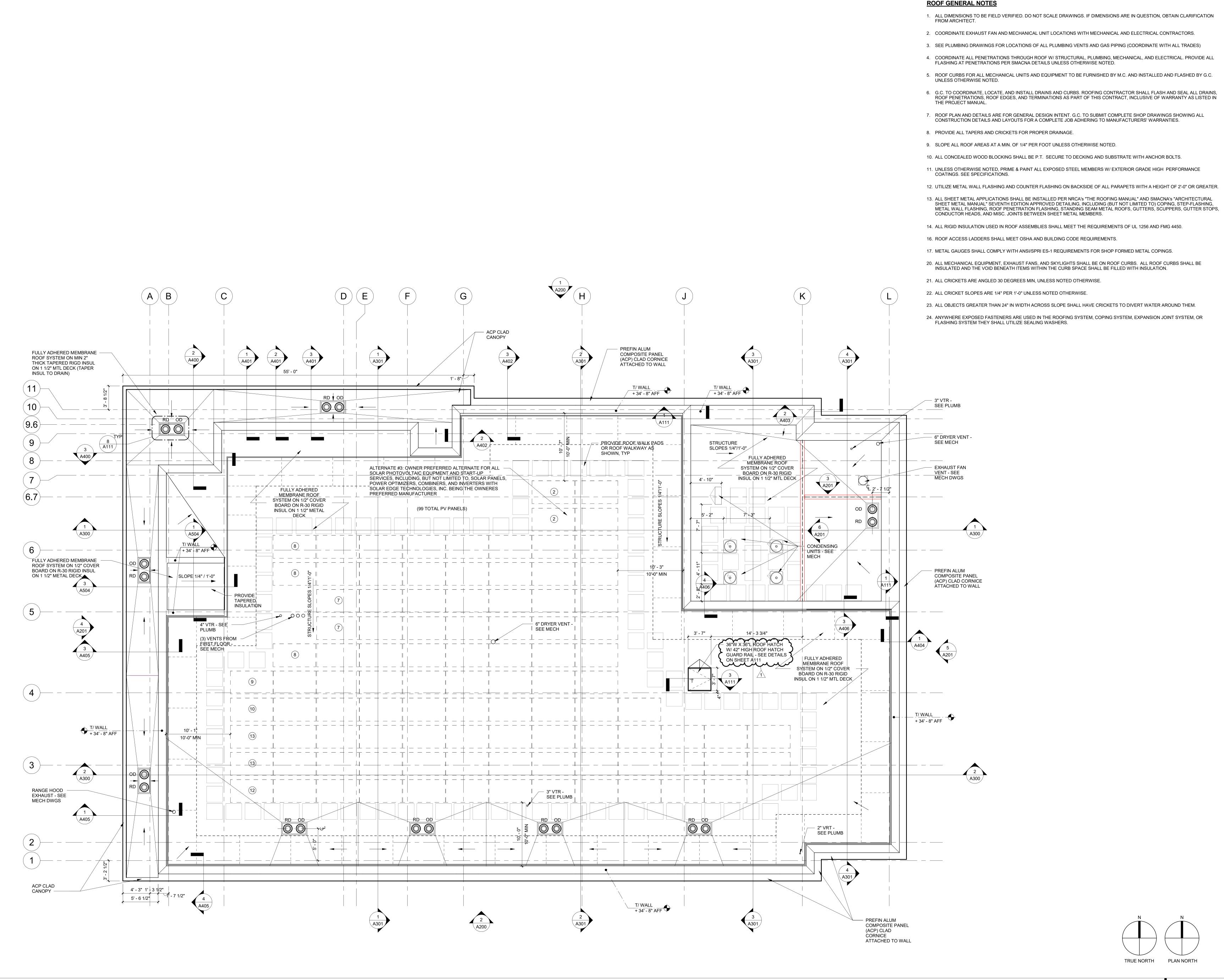
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CARY MAIN EMS STATION

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Development Plan #23-DP-4187

RFB#24-086

ROOF PLAN

10-07-24 21046

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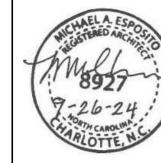
PROJECT NO:

REVISIONS

NO: DATE:

DATE: DESCRIPTION: 10-11-24 Addendum #1 - Pe Comments

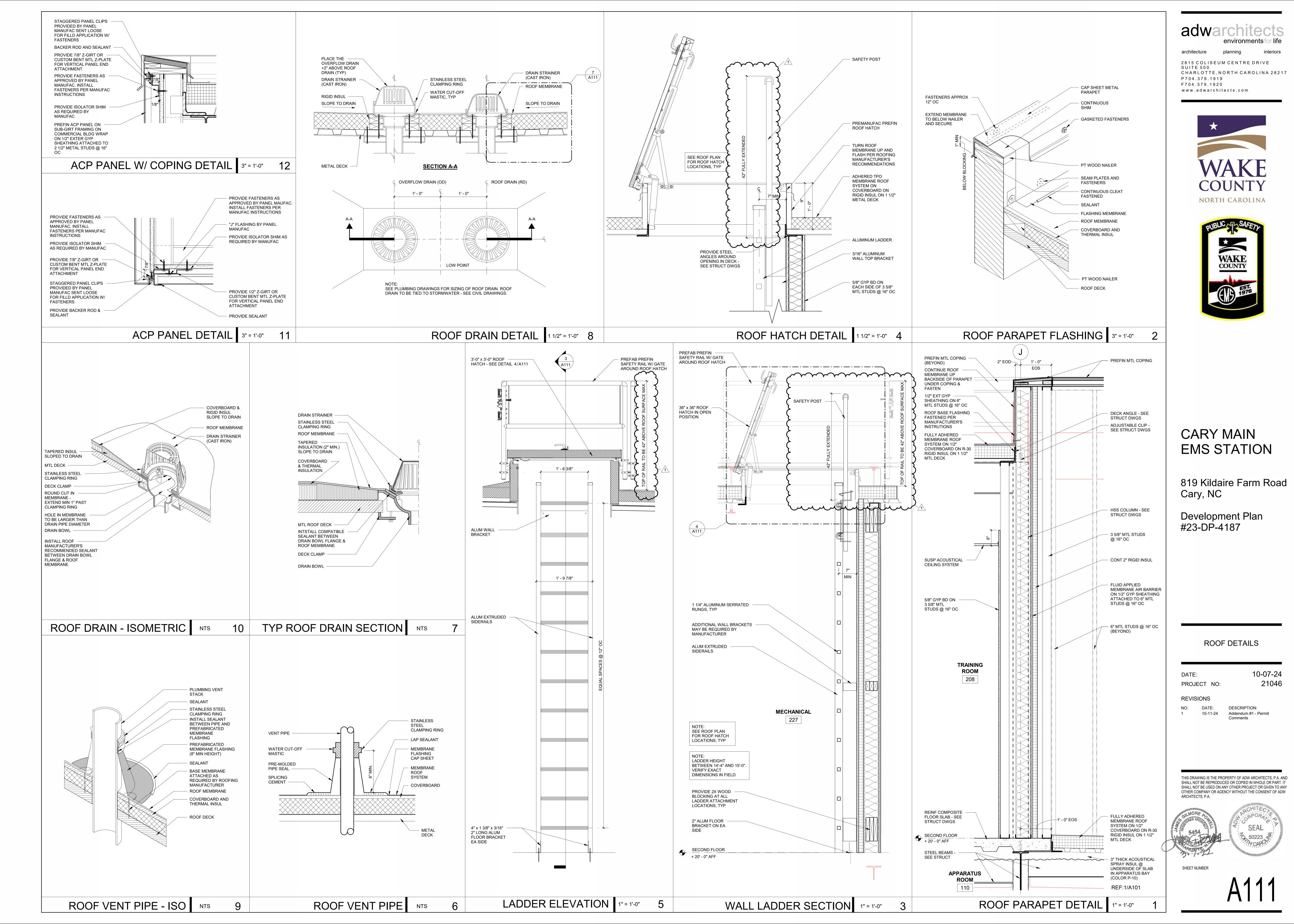
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P704.379.1919

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www.adwarchitects.com

2815 COLISEUM CENTRE DRIVE

CHARLOTTE, NORTH CAROLINA 28217

Sigma Engineered Solutions, PC

5909 FALLS OF NEUSE RD.

Suite 101

Raleigh NC 27609

Ph: 919.840.9300

www.sigmaes.com

North Carolina License #: C-2490

Sigma Project #: 22013

NORTH CAROLINA

PL	.UMBING	LEGEND							
SYMBOL SCHEDULE	ABBREVIATIONS								
DOMESTIC COLD WATER DOMESTIC HOT WATER SUPPLY DOMESTIC HOT WATER RETURN GGGAS AIR WASTE VENT PIPE ELBOW TURNS DOWN; UP PIPE CAP BALL VALVE CHECK VALVE CHECK VALVE CIRCUIT SETTER CIRCUIT SETTER CIRCUIT SETTER CIEANOUT COEND-OF-LINE CLEANOUT CLEAN	AFC AFF AFG AFH AAV BFF CI CO CW DNT EWC (EX) FCO FDP FPHB GPH HB	ABOVE FINISH CEILING ABOVE FINISH FLOOR ABOVE FINISH GRADE ANTI-FREEZE HYDRANT AIR ADMITTANCE VALVE BELOW FINISHED FLOOR CAST IRON CLEANOUT COLD WATER DO NOT TAP ELECTRIC WATER COOLER EXISTING FLOOR CLEANOUT FLOOR DRAIN FLOOR DRAIN FLOOR DRAIN PARKING FREEZE-PROOF HOSE BIBB GALLONS PER HOUR HOSE BIBB CONNECT TO EXISTING POINT OF DEMOLITION	HD GCO HWS HWR IW LAV TYP UR V VTR W WC WCO WHA YCO	HUB DRAIN GRADE CLEANOUT HOT WATER SUPPLY HOT WATER RETURI INDIRECT WASTE LAVATORY TYPICAL URINAL VENT VENT THRU ROOF WASTE WATER CLOSET WALL CLEANOUT WATER HAMMER ARRESTOR YARD CLEANOUT					

SLAB THICKNESS COVER (CLEAR)

MATERIAL THICKNESS

FALL

1.96

DEPTH (FT)

BUILDING WATER			un alex Circles				BUILDING D.F.U.	DEMANDS	
FIXTURE TYPE	Load Values No.	Hot	Cold	Total	SUBTOTAL F.U.'s	FIXTURE TYPE	No.	DFU VALUE	SUBTOTAL DFU
A TOTAL OF THE STATE OF	8	пос			80	WATER CLOSET (F.V.) Public	8	4	32
WATER CLOSET (F.V.) Public	8		10 6	10	80	WATER CLOSET (F.V.) Private		4	
WATER CLOSET (F.V.) Private				6		WATER CLOSET (F.T.)		4	
WATER CLOSET (F.T.)Public			5 2.2	5 2.2		URINALS (F.V.)	1	2	2
WATER CLOSET (F.T.)Private						LAVATORY (PUBLIC)	7	1	7
URINALS (F.V.)1"	1		10	10	10	LAVATORY (PRIVATE)		1	
URINALS (F.V.)3/4"			5	5		SHOWER HEAD (PUBLIC)	2	2	4
LAVATORY (PUBLIC)	7	1.5	1.5	2	14	SHOWER HEAD (PRIVATE)	_	2	
LAVATORY (PRIVATE)		0.5	0.5	0.7		BATH TUB		2	
SHOWER HEAD (PUBLIC)	2	3	3	4	8	Custom Fixture		_	
SHOWER HEAD (PRIVATE)		1	1	2		COMMERCIA L SINK - 3 COMP.	1	3	3
BATH TUB(Private)		1	1	1.4		COMMERCIAL SINK - FOOD PREP	•	3	
BATH TUB(public)		3	3	4		COMMERCIAL SINK - 2 COMP		3	
Custom Fixture						COMMERCIAL SINK - 1 COMP		3	
COMMERCIAL SINK - 3 COMP.	1	3	3	4	4	HAND WASH SINK		2	
COMMERCIAL SINK - FOOD PREP		2.25	2.25	3.4		KITCHEN SINK No DW	1	2	2
COMMERCIAL SINK - 2 COMP		2	2	3			-		
COMMERCIAL SINK - 1 COMP		1.5	1.5	2		KITCHEN SINK W / DW	1	2	2
KITCHEN SINK(private)	2	1	1	1.4	2.8	Custom Fixture			
KITCHEN SINK(hotel-rest.)		3	3	4		DISHWASHER COMMERCIAL		6	
Custom Fixture						DISHWASHER - RESIDENTIAL	1	2	2
DISHWASHER COMMERCIAL		6		6		WASHING MACHINE (Private)		3	
DISHWASHER - RESIDENTIAL	1	1.4		1.4	1.4	WASHING MACHINE (Public)	1	2	2
WASHING MACHINE (Private-8lb)		1	1	1.4		MOP SINK	2	2	4
WASHING MACHINE (Public 8lb)	1	2.25	2.25	3	3	FLOOR DRAINS	18	2	36
WASHING MACHINE (Public 15lb)		3	3	4		ELECTRIC WATER COOLER	3	0.5	1.5
MOP SINK/Service sink	2	2.25	2.25	3	6	Waste calculated on Trap Sizing:			
ELECTRIC WATER COOLER	3		0.25	0.25	0.75	TRAP < 1-1/4		1	
HOSE BIBB / WALL HY DRANT	15		2	2	30	UP TO 1-1/2		2	
Add 5 GPM to Continuous Flow per F	ixture					UP TO 2		3	
						UP TO 2-1/2		4	
		29.65			159.95	UP TO 3	1	5	5
					TOTAL F.U.'s	UP TO 4		6	
Fixture Demand (GPM)	80.9975								
, , , ,						CODE	NCPC 2018	TOTAL DFU	00.000000000000000000000000000000000000
Continuous Demands						BUILDING SEWER SIZE	4	SLOPE	0.125
		-				SLAB THICKNESS	4	LENGTH	100

SERVICE LINE FLOW

BUILDING LINE SIZE

80.9975

2 1/2"

NCPC 2018

GENERAL PLUMBING NOTES

- NOT ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING MAY BE USED ON THIS PROJECT.
- ALL PLUMBING WORK SHALL BE FURNISHED AND INSTALLED PER THE STATE OF NORTH CAROLINA BUILDING CODE: PLUMBING CODE 2018.
- UNLESS OTHERWISE NOTED ON DRAWINGS, ALL 1½"-2½" SANITARY WASTE AND VENT PIPING SHALL BE RUN AT ½" PER FT SLOPE. ALL 3"-6" SANITARY WASTE AND VENT PIPING SHALL BE RUN AT ½" PER FT SLOPE. ALL WASTE AND VENT PIPING 8" OR LARGER SHALL BE RUN AT $\frac{1}{16}$ " PER FT SLOPE. ALL STORM DRAINAGE PIPING SHALL BE RUN AT 1/8" PER FT SLOPE.
- THE DESIGN/DETAIL/SCHEDULE SHOWN IS BASED ON (MANUFACTURER, MODEL) EQUIPMENT AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS, AND/OR
- INSTALL ALL PIPING AT THE MAXIMUM ELEVATION POSSIBLE. PROVIDE ALL FITTINGS, TRANSITIONS AND MATERIALS REQUIRED TO ACHIEVE MAXIMUM ELEVATION. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START OF WORK TO AVOID CONFLICTS.

SUPPORT FOR EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO THE OTHER BUILDING SYSTEMS.

- 6. CONTRACTOR SHALL FURNISH ALL DISCONNECTS REQUIRED FOR PLUMBING EQUIPMENT.
- CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL MANUFACTURER SUBSTITUTIONS OF PLUMBING EQUIPMENT. SUBMIT A DESCRIPTION OF ANY/ALL CHANGES REQUIRED BY THE SUBSTITUTION, INCLUDING ELECTRICAL AND MECHANICAL CONNECTIONS, SIZES, WEIGHTS, AND CLEARANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COST ASSOCIATED WITH THE SUBSTITUTION.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS. THE CONTRACTOR SHALL INFORM THE ARCHITECT AND/OR ENGINEER OF ANY CONFLICTS AS SOON AS THEY ARE DETECTED.
- INVERTS LISTED ARE MINIMUM EXPECTATIONS FOR COORDINATION SITE UTILITIES. IF ACTUAL INSTALL REQUIRES DEEPER INVERTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OTHER
- 10. THESE DRAWINGS ARE NECESSARILY DIAGRAMMATIC IN NATURE. NOT ALL FITTINGS, OFFSETS, VENTS, OR DRAINS ARE SHOWN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND INCLUDE ALL FITTINGS, OFFSETS, VENTS, AND DRAINS AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONING
- 11. REFER TO SPECIFICATIONS FOR SEISMIC BRACING REQUIREMENTS ON ALL PLUMBING SYSTEMS.

 -	~~~~	~~~~	· · · · · · · · · · · · · · · · · · ·	~~~	~~~	~~				
ſ	GAS LOA	D SUMMAR	Y PER 2	018 NCF	GC	,				
ĺ	GAS LOAD SUMMARY PER NCFGC 402.4(-)									
ĺ	FIXTURE TYPE	LOAD	DELIVERY PRESSURE	LENGTH	SIZE	,				
Ī	GWH-1	199,000 BTU	2" PSI	LLM*	3/4"					
Ī	IRH-1	50,000 BTU	2" PSI	LLM*	3/4"	, 				
Ī	IRH-2	78,000 BTU	2" PSI	LLM*	3/4"	, 				
İ	IRH-3	78,000 BTU	2" PSI	LLM*	3/4"	,				
t										

DIV22. SHALL INSTALL GAS PIPING FROM THE METER (BY UTILITY) TO THE EQUIPMENT. PROVIDE GAS REGULATOR FOR EACH PIECE OF EQUIPMENT. COORDINATE REGULATOR SETPOINT WITH MANUFACTURER. GAS REGULATORS OVER 2PSI SHALL BE PROVIDED WITH INTEGRAL OPD. *THE METHOD OF CALCULATION IS THE LONGEST LENGTH METHOD PER

2018 NCFGC

402.4(5)

NCFGC A.6.1

HIGH EFFICIENCY GAS FIRED WATER HEATER SCHEDULE

t				GAS BURNER DATA					INTAKE/ SUPPLY AIR FAN		CONTROL CIRCUIT				
	MARK	LOCATION	MANUFACTURER/ MODEL#	GAS TYPE AND PRESSURE, INCHES W.C.		BTU/HR		EF	EXHAUST FLUE SIZE		PHASE	VOLTS @ 2.0 A	РН	REMARKS	
	<u>GWH-1</u>	MECH RO0M #106	RHEEM HE80-199	N.G. 7-14" W.C.	80	199,000	229 @ 100°F RISE	95%	3"/3"	120	1	120	1	PROVIDE WATER HEATER PAN W/ DRAIN. PROVIDE WITH HEAT TRAP NIPPLES. WATER HEATER TO BE SET AT A MAX TEMP OF 120°	

PROVIDE VENT KIT FROM MANUFACTURER. 95% THERMAL EFFICIENCY

	HOT WATER RECIRCULATION PUMP SCHEDULE										
MARK	SERVICE	*MANUFACTURER/MODEL	FLOW RATE	HEAD	MOTOR HP	RPM	TYPE	VOLTAGE	NOTES		
RCP-1	HW RECIRC	B&G ECOCIRC XL B 36-45	2 GPM	@ 20 FT	1/6 HP	3500	INLINE	120V/1P/60HZ	1, 2		

*BASIS OF DESIGN: PROVIDE TACO, B&G OR ACME

- 1. PUMP SHALL BE SELECTED OF MATERIALS RATED FOR DOMESTIC WATER USE.
- 2. PROVIDE LATERAL PIPING SUPPORTS TO PREVENT PUMP MOVEMENT. 2. PROVIDE WITH HIGH WATER ALARM, AND REMOTE SENSOR.

	2-STAGE RECIPROCATING AIR COMPRESSOR SCHEDULE										
MARK	LOCATION	MANUFACTURER/ MODEL # *		CAPACITY			ECTRICAL				
			AIR FLOW	PRESSURE	RECEIVER SIZE	HP	POWER	REMARKS			
<u>AC-1</u>	TOOL ROOM #111	INGERSOLL-RAND	16.8 CFM	175 PSI	80 GAL	5 HP	208V/3P/60HZ	1, 2, 3			

*BASIS OF DESIGN: EQUAL PRODUCTS MAY BE ACCEPTED BY: CHAMPION, CURTIS, QUINCEY

- 1. VERTICAL TANK WITH AUTOMATIC DRAIN VALVE 2. PROVIDE WITH LOW SOUND ATTENUATING ENCLOSURE (64 MAX DBA)
- 3. PROVIDE COMPLETE WITH BLOW DOWN MUFFLER

SUMP PUMP SCHEDULE									
MARK	SERVICE	*MANUFACTURER/MODEL	FLOW	HEAD	MOTOR HP	RPM	TYPE	VOLTAGE	NOTES
SP-1	ELEVATOR PIT	STANCOR SE-50 SUMP PUMP	50 GPM	22 FT	1/2 HP	1760	SUMP	120V/1P/60HZ	

NOTES: BASIS OF DESIGN: PROVIDE TACO, B&G OR ACME

SPECIFICATIONS: REFER TO PROJECT MANUAL FOR COMPLETE JOB REQUIREMENTS

- 1.1 VIBRATION CONTROL AND SEISMIC-RESTRAINT DEVICE INSTALLATION
- attachment and mounting points and with requirements for concrete reinforcement and formwork specified in Section 033000 "Cast-in-Place Concrete."

A. Coordinate the location of embedded connection hardware with supported equipment

- B. Installation of vibration isolators must not cause any change of position of equipment, piping, or ductwork resulting in stresses or misalignment.
- C. Comply with requirements in Section 077200 "Roof Accessories" for installation of
- roof curbs, equipment supports, and roof penetrations. D. Equipment Restraints:
- 1. Install seismic snubbers on plumbing equipment mounted on vibration isolators. Locate snubbers as close as possible to vibration isolators and bolt to equipment
- base and supporting structure. 2. Install resilient bolt isolation washers on equipment anchor bolts where clearance
- between anchor and adjacent surface exceeds 0.125 inch (3.2 mm). 3. Install seismic-restraint devices using methods approved by an agency acceptable to authorities having jurisdiction that provides required submittals for component.
- E. Piping Restraints:

CAPACITY 405 MBH

1 1/4"

TOTAL LENGTH:

PRESSURE DROP

INLET PRESSURE METER CONNECTION:

- 1. Comply with requirements in MSS SP-127. 2. Space lateral supports a maximum of 40 feet (12 m) o.c., and longitudinal
- supports a maximum of 80 feet (24 m) o.c. 3. Brace a change of direction longer than 12 feet (3.7 m).
- F. Install cables so they do not bend across edges of adjacent equipment or building
- G. Install seismic-restraint devices using methods approved by an agency acceptable to authorities having jurisdiction that provides required submittals for component. H. Install bushing assemblies for anchor bolts for floor-mounted equipment, arranged to
- provide resilient media between anchor bolt and mounting hole in concrete base. I. Install bushing assemblies for mounting bolts for wall-mounted equipment, arranged to provide resilient media where equipment or equipment-mounting channels are
- attached to wall. J. Attachment to Structure: If specific attachment is not indicated, anchor bracing to structure at flanges of beams, at upper truss chords of bar joists, or at concrete members.
- K. Drilled-in Anchors:
- 1. Identify position of reinforcing steel and other embedded items prior to drilling holes for anchors. Do not damage existing reinforcing or embedded items during coring or drilling. Notify the structural engineer if reinforcing steel or other embedded items are encountered during drilling. Locate and avoid prestressed tendons, electrical and telecommunications conduit, and gas lines.

2. Do not drill holes in concrete or masonry until concrete, mortar, or grout has

- achieved full design strength. 3. Wedge Anchors: Protect threads from damage during anchor installation. Heavy-duty sleeve anchors shall be installed with sleeve fully engaged in the structural element to which anchor is to be fastened.
- 4. Set anchors to manufacturer's recommended torque, using a torque wrench. 5. Install zinc-coated steel anchors for interior and stainless-steel anchors for exterior applications.

- 2.1 SUPPLY WATER PIPING SCHEDULE
- A. Transition and special fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.
- B. Flanges and unions may be used for aboveground piping joints unless otherwise C. Under-building-slab, domestic water, building service piping, NPS 3 and
- smaller, shall be the following:
- 1. Soft copper tube, ASTM B 88, Type K; wrought-copper solder-joint fittings; and brazed joints.
- 2. Concrete-lined DIP with integral flanges. "Mega Lug" type fittings will not be
- D. Aboveground domestic water piping, NPS 1" and smaller except for flush valves shall be the following:
- 1. Hard copper tube, ASTM B 88, Type L wrought-copper solder-joint fittings; and soldered joints.
- E. Aboveground domestic water piping, NPS 1¼ " and larger and for all flush valves
- 1. Hard copper tube, ASTM B 88, Type M copper with brazed joints and fittings.

2.1 WASTE AND VENT PIPING APPLICATIONS

- A. Special pipe fittings with pressure ratings at least equal to piping pressure ratings may be used in applications below, unless otherwise indicated.
- B. Above ground Waste, Vent piping
- 1. Hub and Spigot Schedule 40 Cast Iron.
- C. Roof leader and storm piping shall be 1. Hub and Spigot Schedule 40 Cast Iron.
- D. Underground, storm drain, soil, waste, and vent piping NPS 5 (DN 125) and smaller shall be the following:
- 1. Hub and Spigot Schedule 40 Cast Iron.

- 3.1 INDOOR PIPING INSULATION SCHEDULE
- A. Domestic Hot and Recirculated Hot Water: Insulation shall be one of the
- following: Flexible Elastomeric:
- a. Pipes 1" and larger 1 inch (25 mm) thick. 2. Mineral-Fiber, Preformed Pipe Insulation, Type I:
- a. Pipes 1" and larger 1 inch (25 mm) thick. B. Domestic Cold Water (Potable): Insulation shall be one of the following:
- 1. Flexible Elastomeric: 1 inch (25 mm)] thick.
- 2. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch (25 mm) thick.
- C. Stormwater and Overflow: Insulation shall be one of the following:
- 1. Flexible Elastomeric: 1 inch (25 mm) thick.
- 2. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch (25 mm) thick. D. Roof Drain and Overflow Drain Bodies: Insulation shall be one of the following:
- 1. Flexible Elastomeric: 1 inch (25 mm)] thick. 2. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch (25 mm) thick.
- 3.2 MECHANICAL ROOM INSUALTION AND JACKETING
- A. All piping in mechanical rooms, under 8'0" shall be insulated with cellular glass product, 2" thick with color coded 20 mil PVC jacket. Piping above 8'0 shall comply with sections above.

Plumbing Legend

and Notes

RFB#24-086

CARY MAIN

Cary, NC

#23-DP-4187

EMS STATION

Development Plan

819 Kildaire Farm Road

10.07.24 DATE:

21046

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REVISIONS

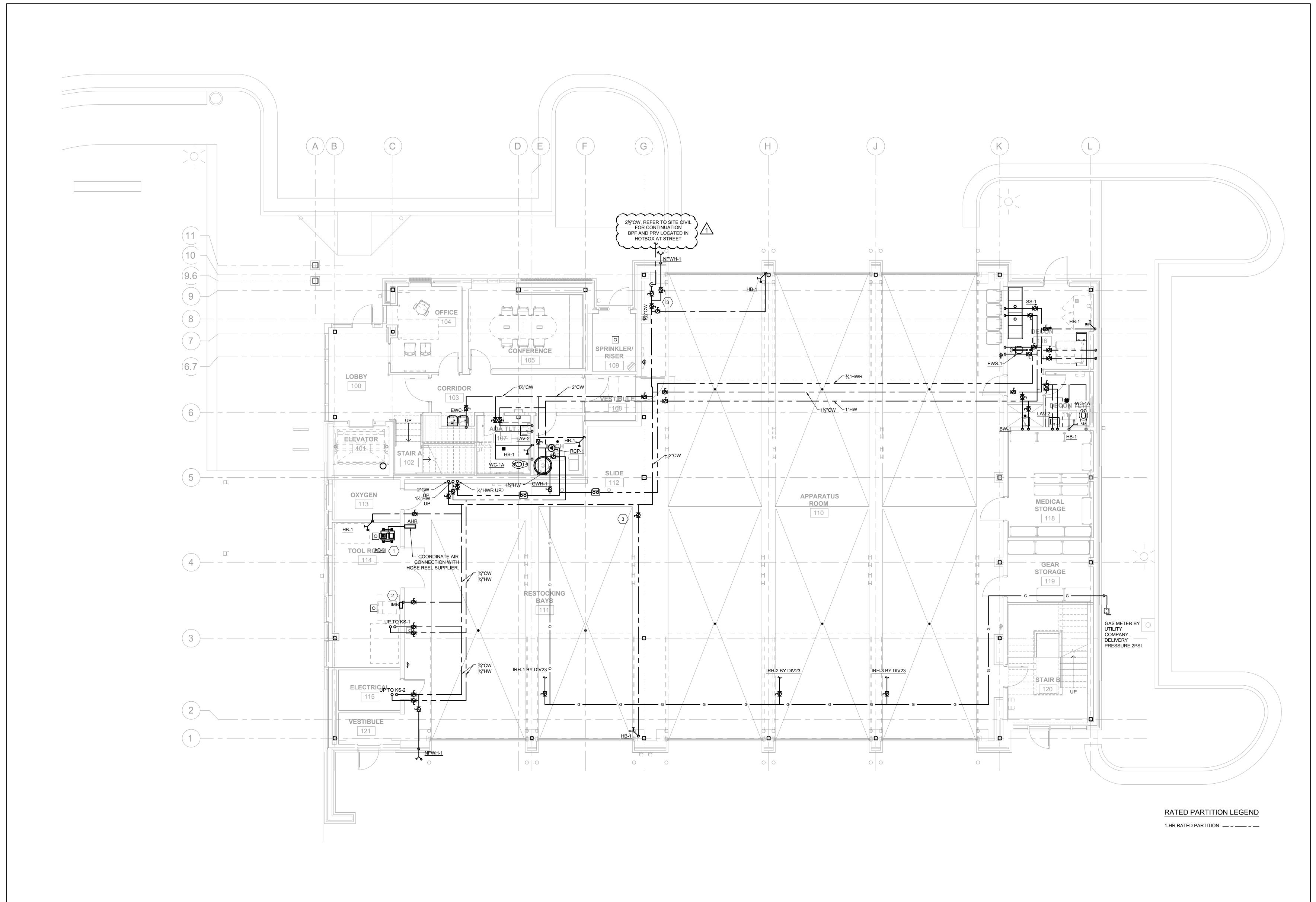
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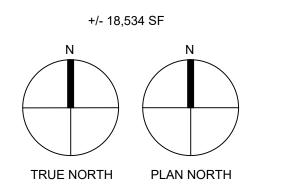
SHEET NUMBER

PLUMBING LEGEND AND NOTES NO SCALE 01



KEYED NOTES:

- 11/4" COMPRESSED AIR. PROVIDE WITH QUICK DISCONNECT.
- INSTALL $\frac{1}{2}$ " ICEMAKER CONNECTION QUARTER TURN BALL VALVE AND APPLIANCE BACK-FLOW PREVENTOR. COORDINATE WITH EQUIPMENT SUPPLIER
- ISOLATION VALVES SHALL BE ACCESSIBLE AND SHALL OPERABLE WITHOUT REQUIREMENT FOR A LIFT.



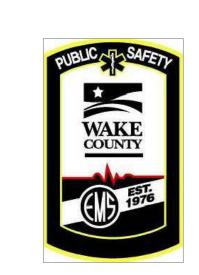
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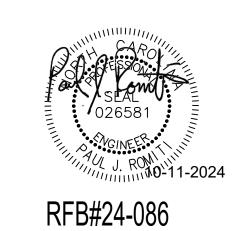




CARY MAIN **EMS STATION**

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Plumbing Water and Gas First Floor Plan

10.07.24

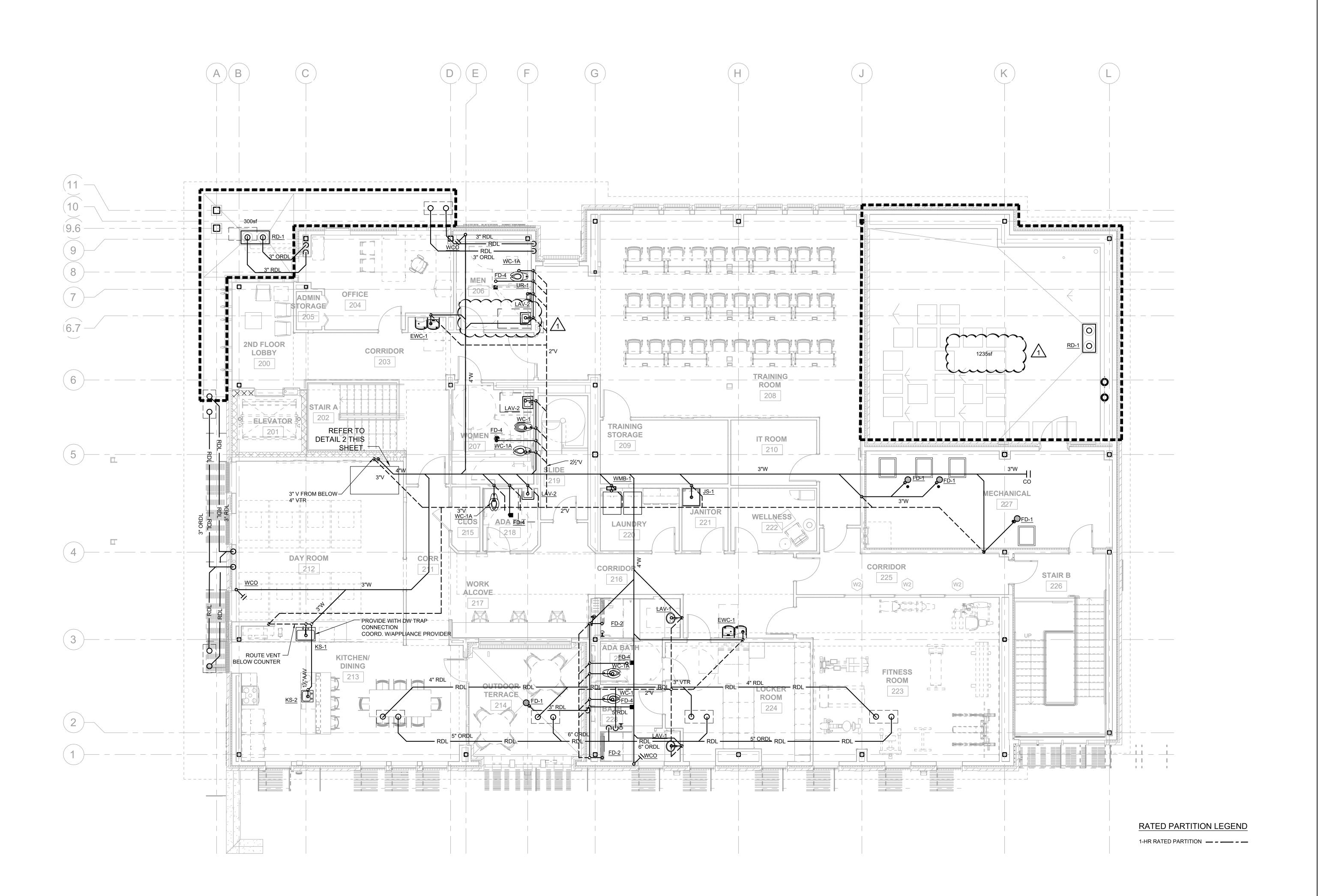
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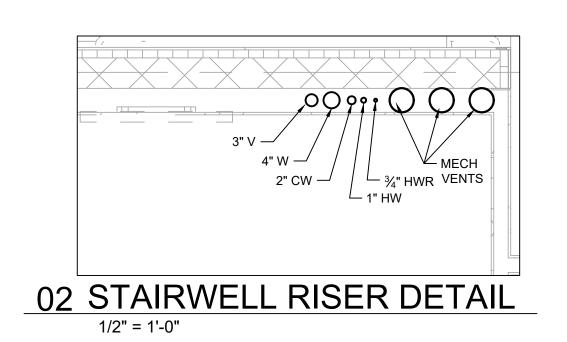
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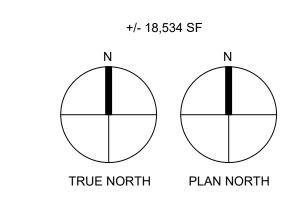
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Plumbing Waste and Vent Second Floor Plan

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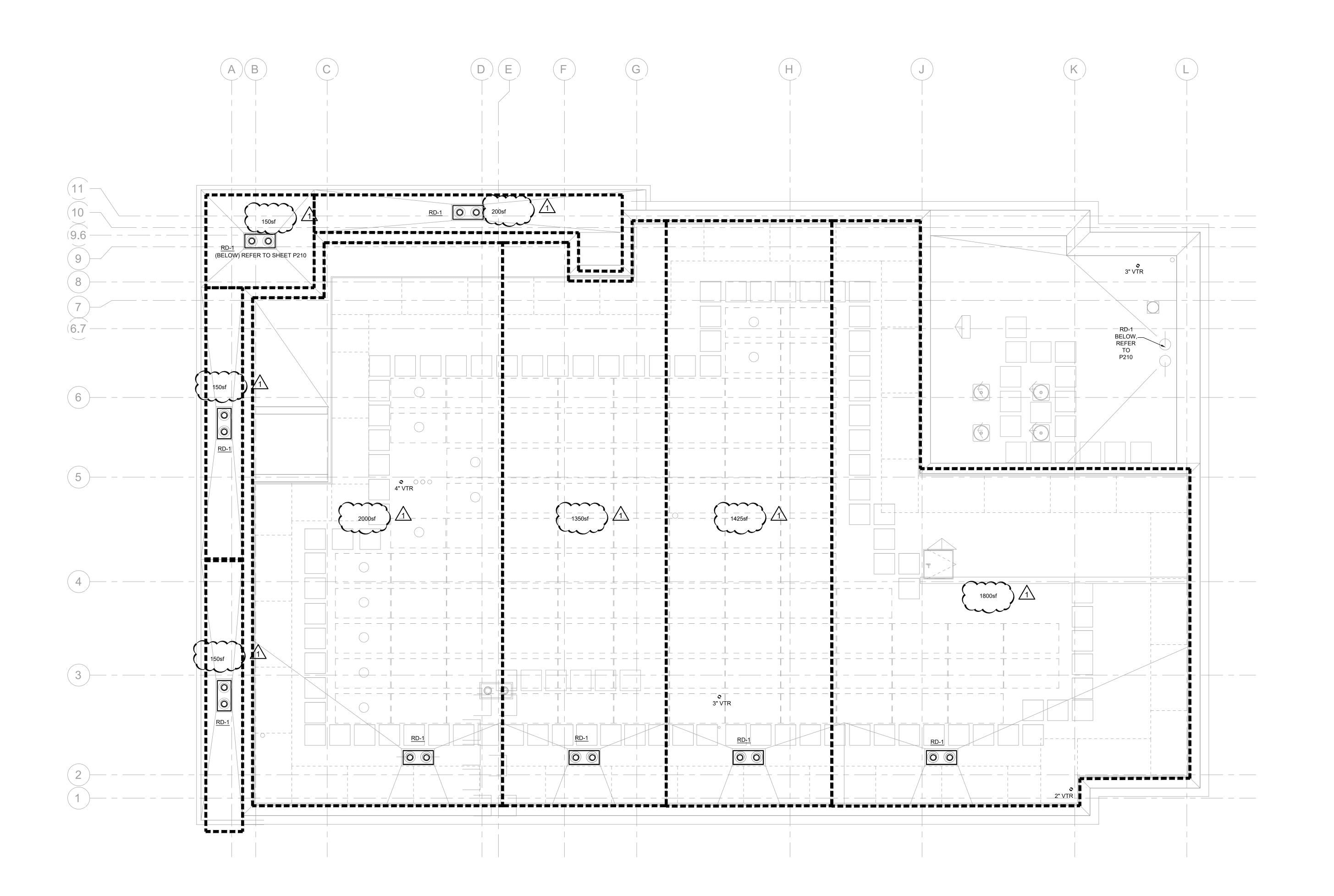
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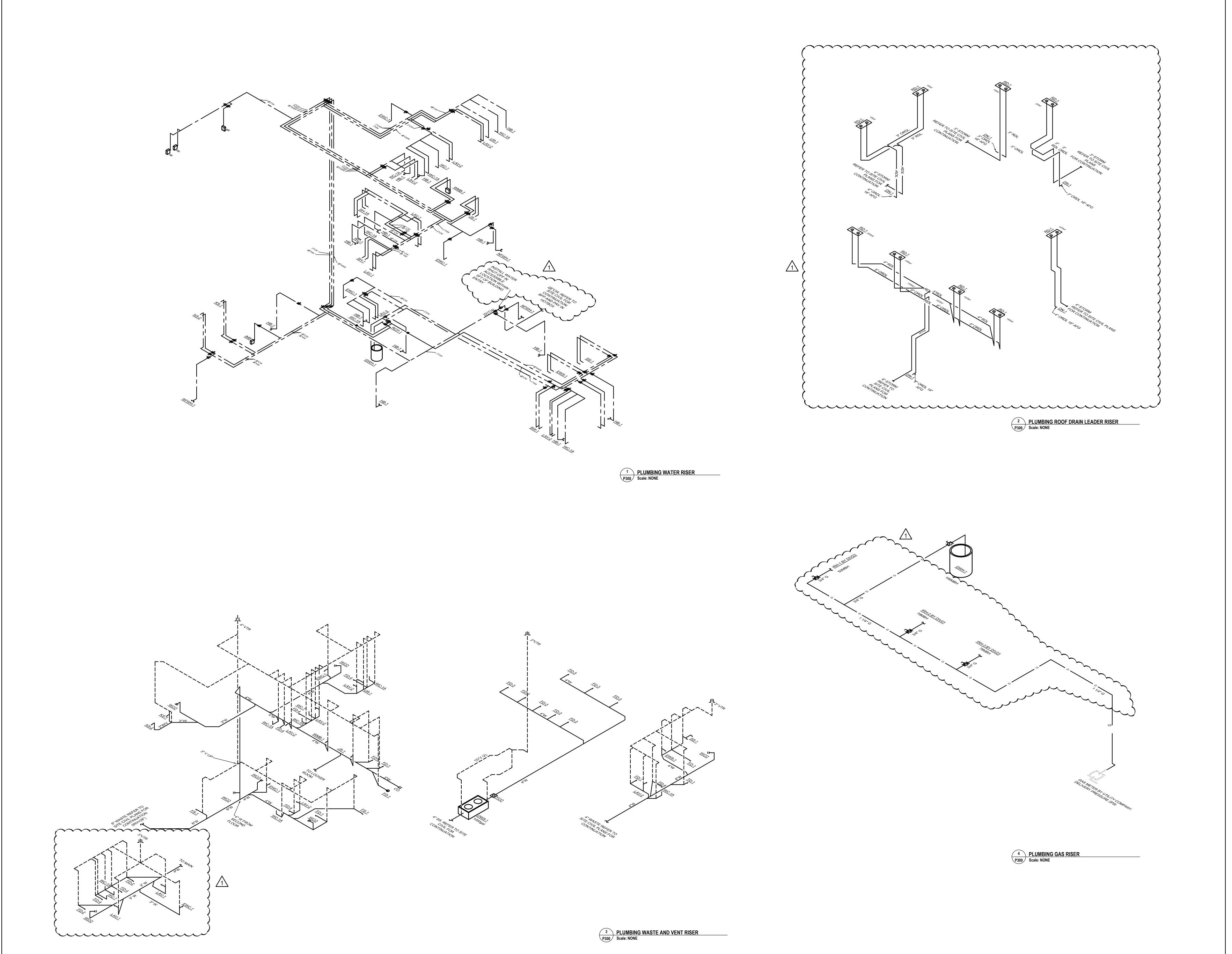


Plumbing Storm Drain Roof Plan

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Plumbing Riser Diagrams

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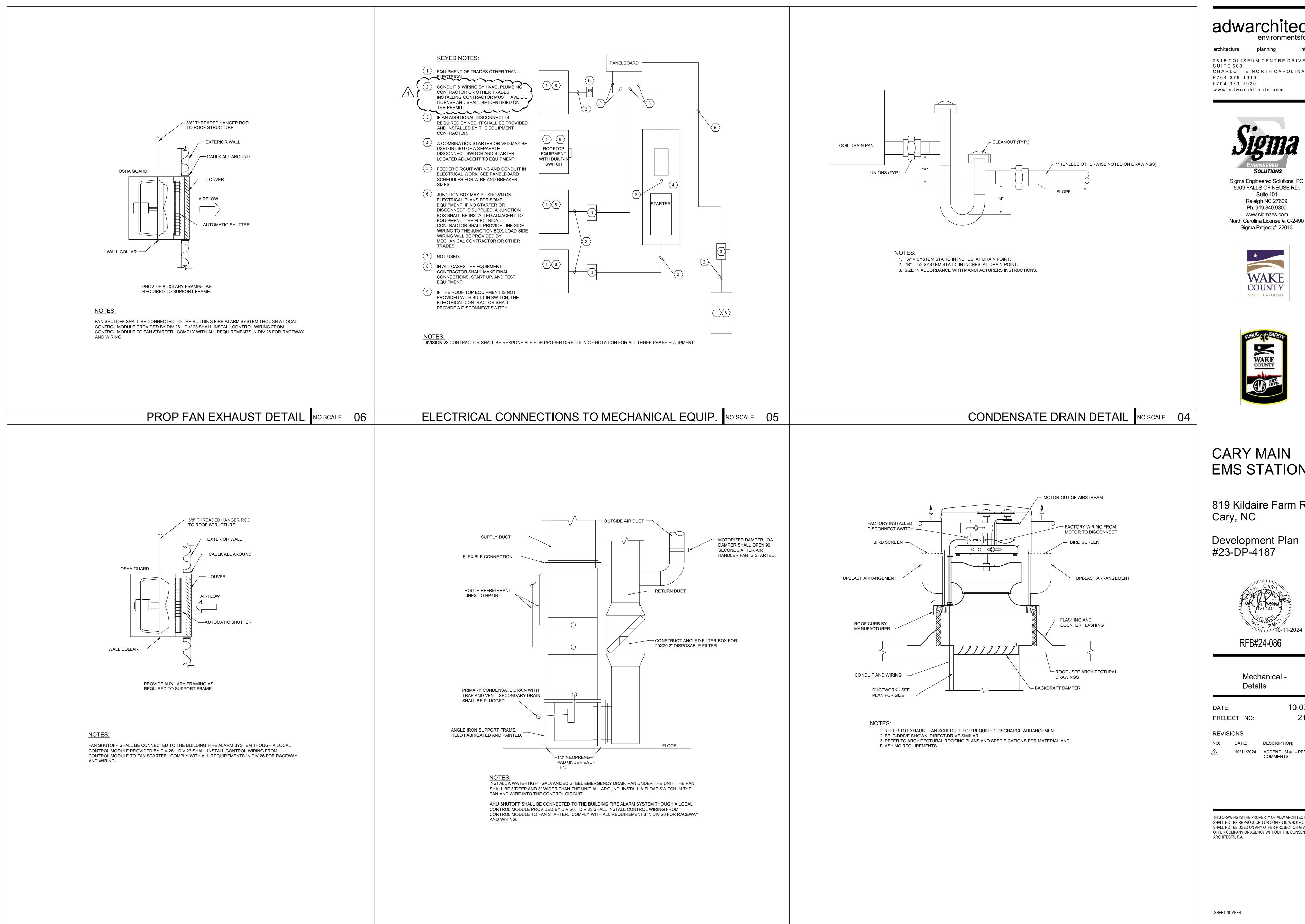
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P300



VERTICAL AHU INSTALLATION DETAIL NO SCALE 02

PROP FAN SUPPLY DETAIL NO SCALE 03

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Suite 101

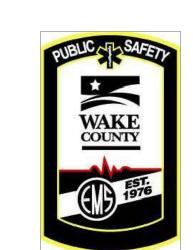
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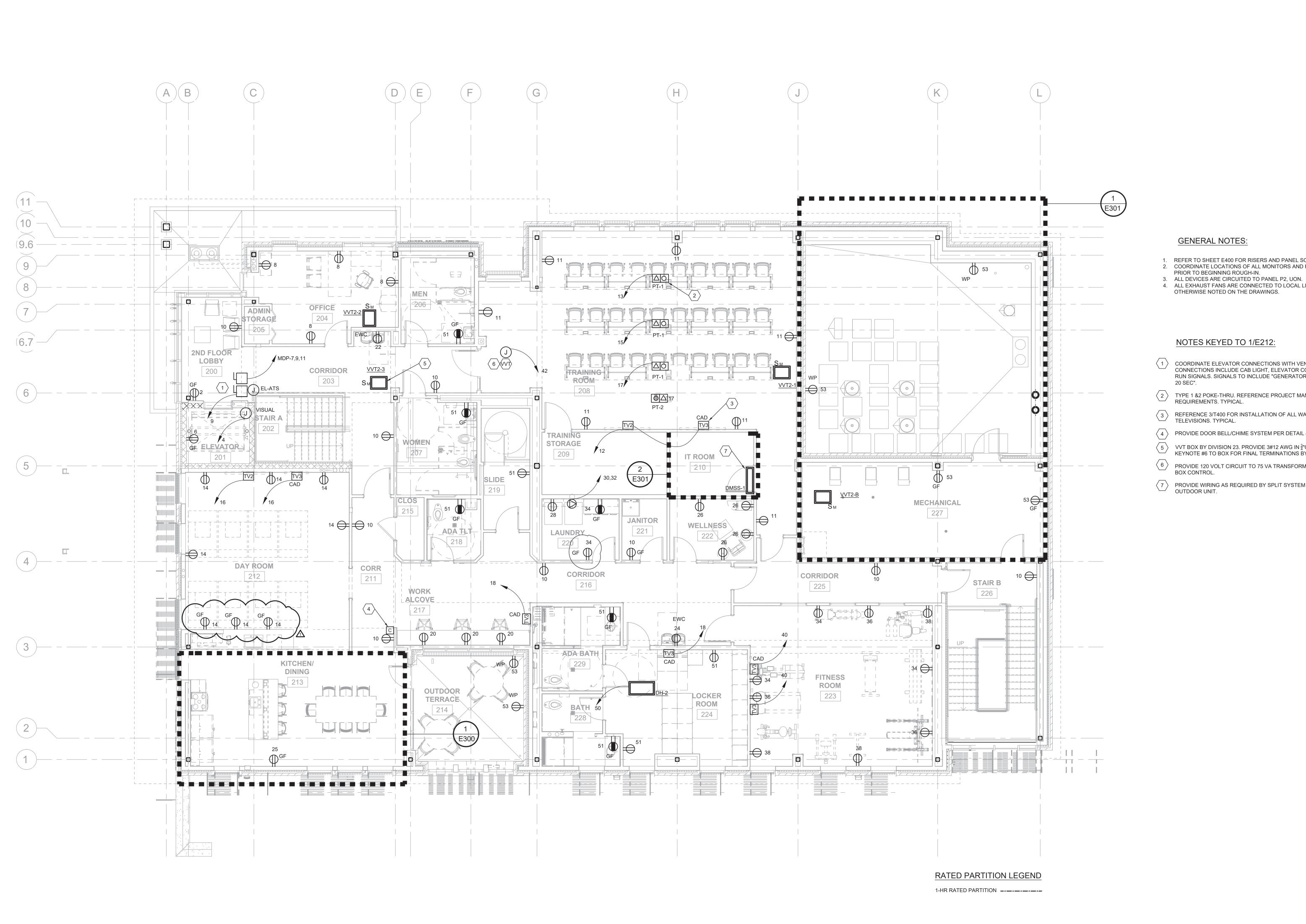


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UPBLAST EXHAUST FAN INSTALLATION DETAIL NO SCALE 01

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GENERAL NOTES:

- 1. REFER TO SHEET E400 FOR RISERS AND PANEL SCHEDULES. 2. COORDINATE LOCATIONS OF ALL MONITORS AND FLOOR BOXES WITH DESIGNER
- PRIOR TO BEGINNING ROUGH-IN.
- 4. ALL EXHAUST FANS ARE CONNECTED TO LOCAL LIGHTING SOURCE UNLESS OTHERWISE NOTED ON THE DRAWINGS.

NOTES KEYED TO 1/E212:

- 1 COORDINATE ELEVATOR CONNECTIONS WITH VENDOR PRIOR TO BEGINNING ROUGH-IN. CONNECTIONS INCLUDE CAB LIGHT, ELEVATOR CONTROLLER, VISUAL CONTROLS AND ATS RUN SIGNALS. SIGNALS TO INCLUDE "GENERATOR RUNNING" AND "TRANSFER TO OCCUR IN
- TYPE 1 &2 POKE-THRU. REFERENCE PROJECT MANUAL SECTION 262726 FOR REQUIREMENTS. TYPICAL.
- REFERENCE 3/T400 FOR INSTALLATION OF ALL WALL MOUNTED MONITORS AND TELEVISIONS. TYPICAL.
- 4 PROVIDE DOOR BELL/CHIME SYSTEM PER DETAIL 4/E502.
- 5 VVT BOX BY DIVISION 23. PROVIDE 3#12 AWG IN $\frac{3}{4}$ "C FROM JUNCTION BOX NOTED IN KEYNOTE #6 TO BOX FOR FINAL TERMINATIONS BY DIVISION 23. TYPICAL.
- PROVIDE 120 VOLT CIRCUIT TO 75 VA TRANSFORMER PROVIDED BY DIVISION 23 FOR VVT BOX CONTROL.
- PROVIDE WIRING AS REQUIRED BY SPLIT SYSTEM MANUFACTURER FROM INDOOR UNIT TO OUTDOOR UNIT.

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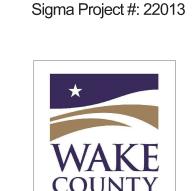
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Mr. Reginald D. Adams

RFB#24-086

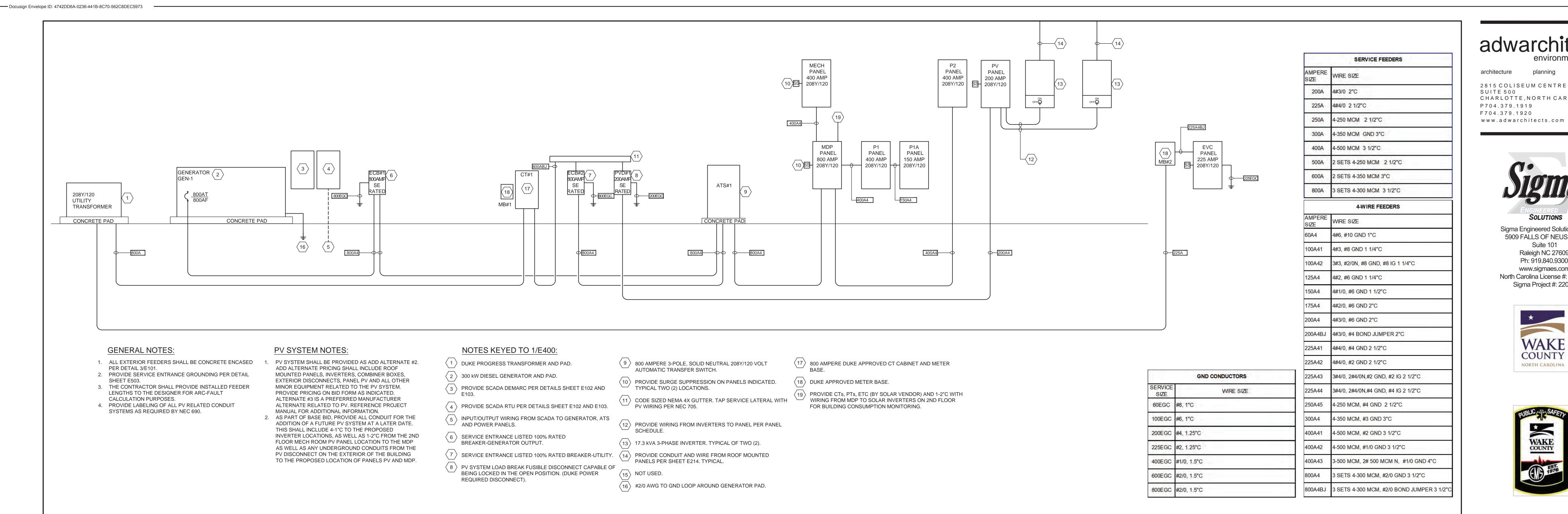
SECOND FLOOR ELECTRICAL POWER PLAN

10.07.24 21046 PROJECT NO:

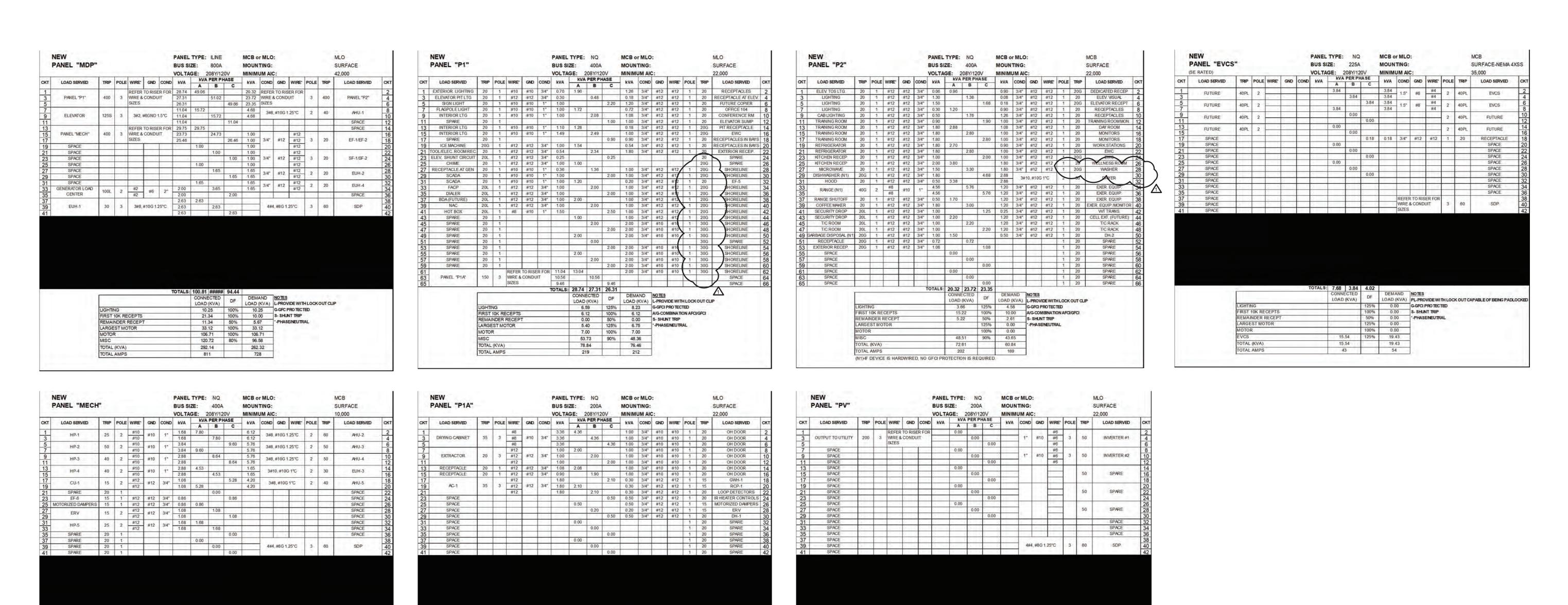
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TOTALS: 11.04 | 10.56 | 9.46 | CONNECTED | DF | LOAD (KVA) | DF | LOAD (KVA) | L-PROVIDE WITH LOCK OUT CLIP | G-GFCI PRO TECTED | A/G-COMBINATION AFCI/GFCI | S- SHUNT TRIP | S-HUNT TRI

LARGEST MOTOR MOTOR

| CONNECTED | DF | DEMAND | LOAD (KVA) | LOAD (KVA) | LOAD (KVA) | LPROVIDE WITH LOCK OUT CLIP | CONNECTED | 100% | 0.00 | G-GFC PRO TECTED | S- SHUNT TRIP

100% 0.00 S- SHUNT TRIP

JTALS: 0.00 0.00 0.00 DEMAND NOTES

FIRST 10K RECEPTS REMAINDER RECEPT ARGEST MOTOR

CONNECTED DF DEMAND NOTES

LOAD (KVA) DF LOAD (KVA) L-PROVIDE WITH LOCK OUT CLIP 125% 0.00 G-GFC PROTECTED

100% 0.00 S- SHUNT TRIP
50% 0.00 *-PHASE/NEUTRAL

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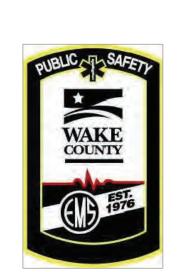
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ELECTRICAL RISER AND SCHEDULES

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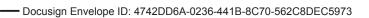
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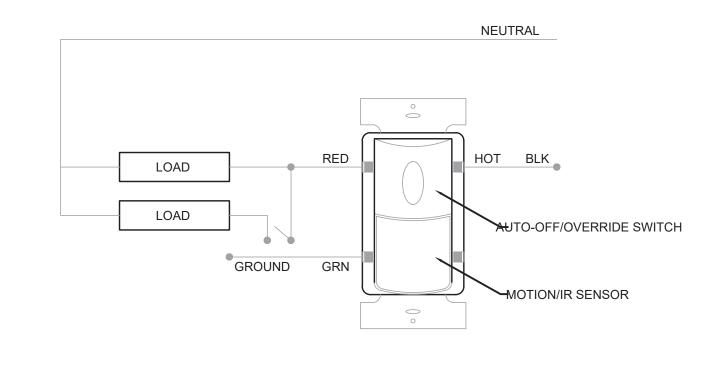
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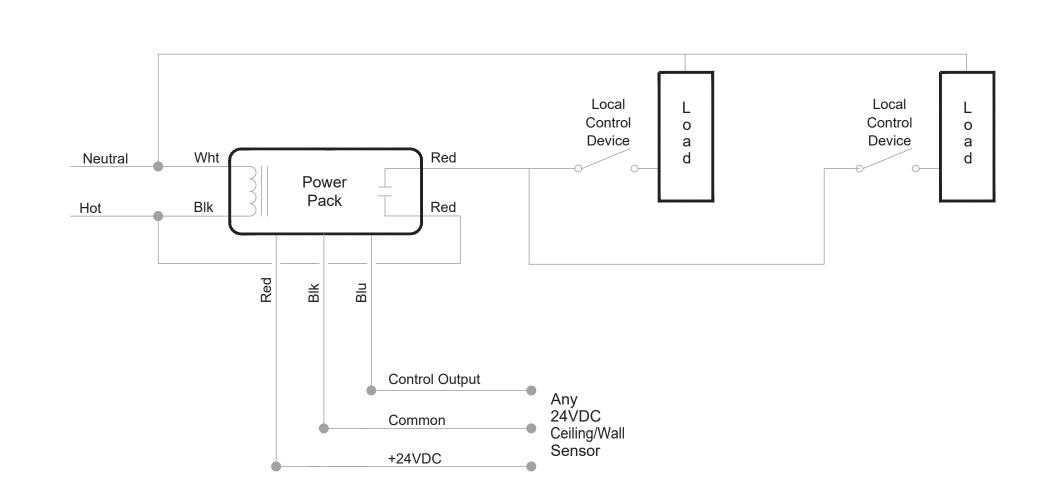
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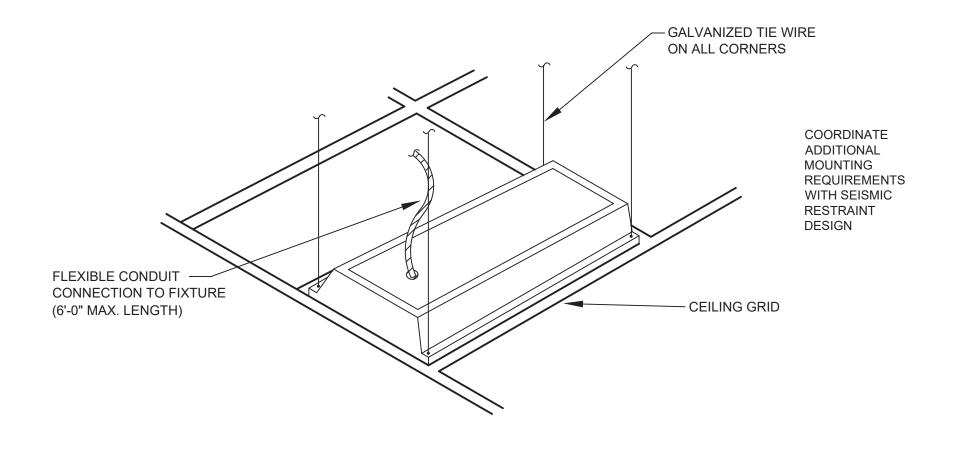
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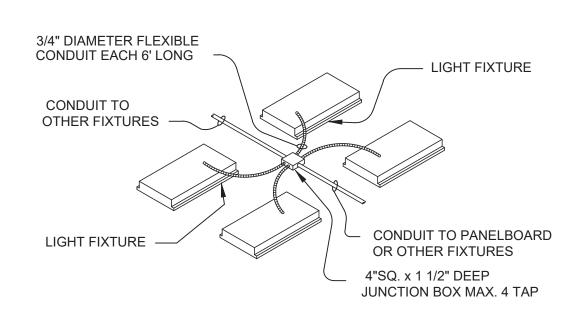
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> Mr. Reginald D. Adams SEAL 19658

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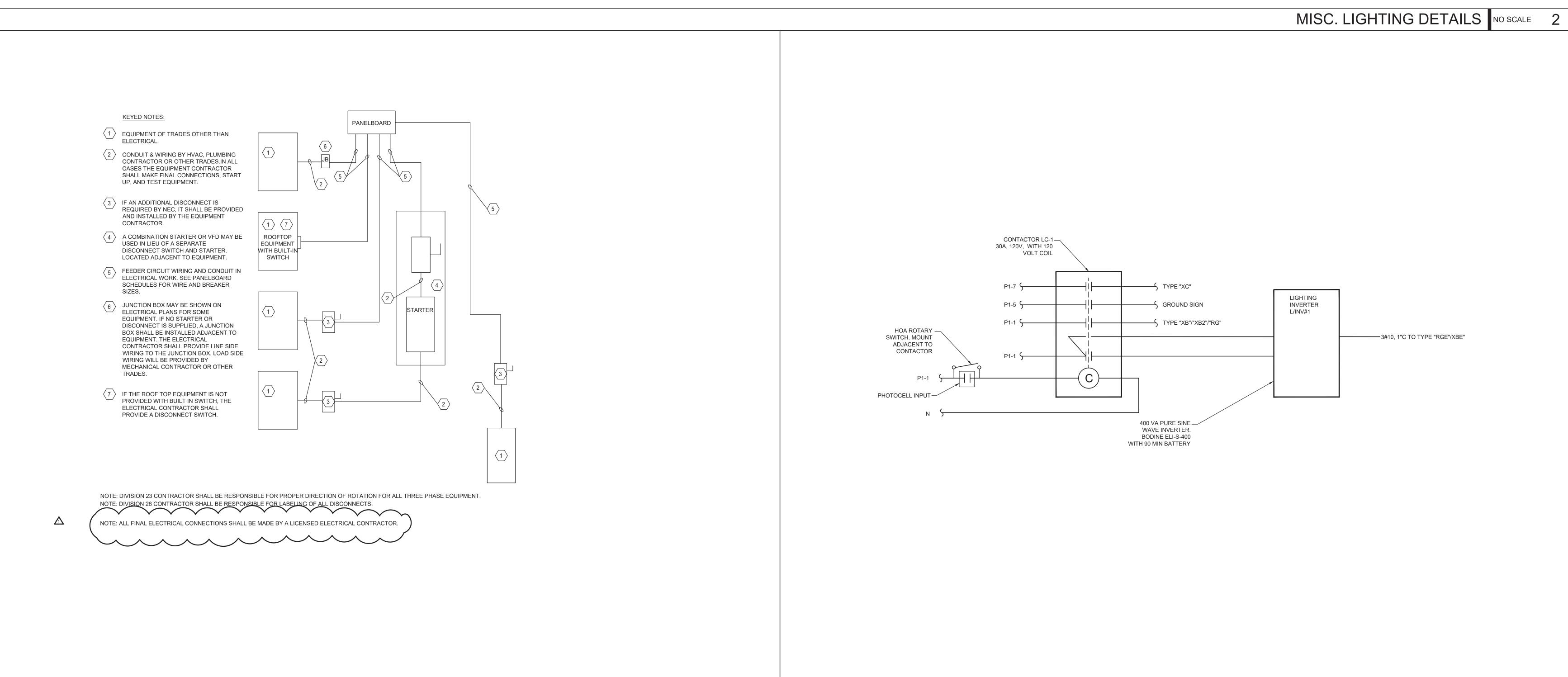
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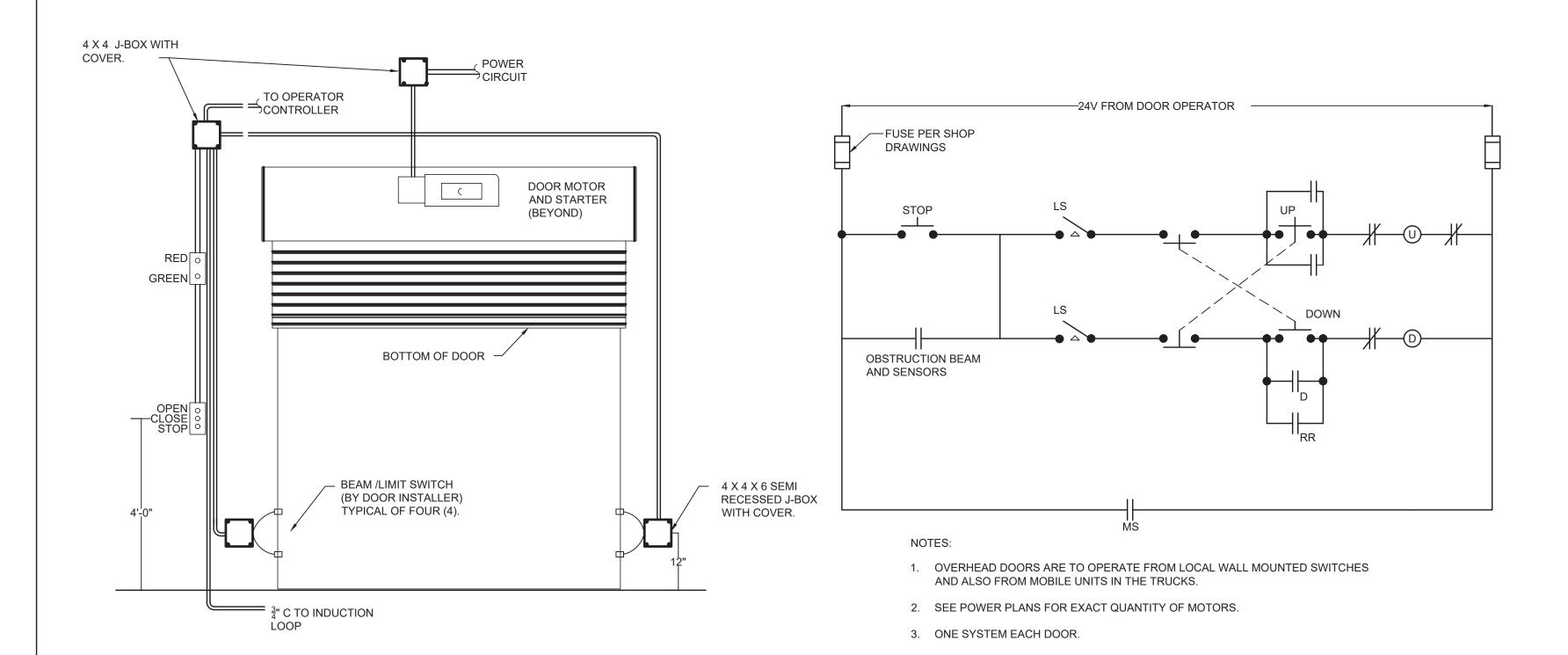


DIVISION OF WORK DETAIL NO SCALE 3

EXTERIOR LIGHTING CONTROL NO SCALE 1

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BASIS OF DESIGN FOR CHIME SYSTEM IS NUTONE BK-SERIES. PROVIDE WITH BASIC CHIMES, TRANSFORMERS AND LIGHTED METAL (ROUND) BUTTONS, FINISH TO BE



INTERIOR ELEVATION AT DOOR

OH DOOR OPERATOR DETAIL NO SCALE 2

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SUITE 500

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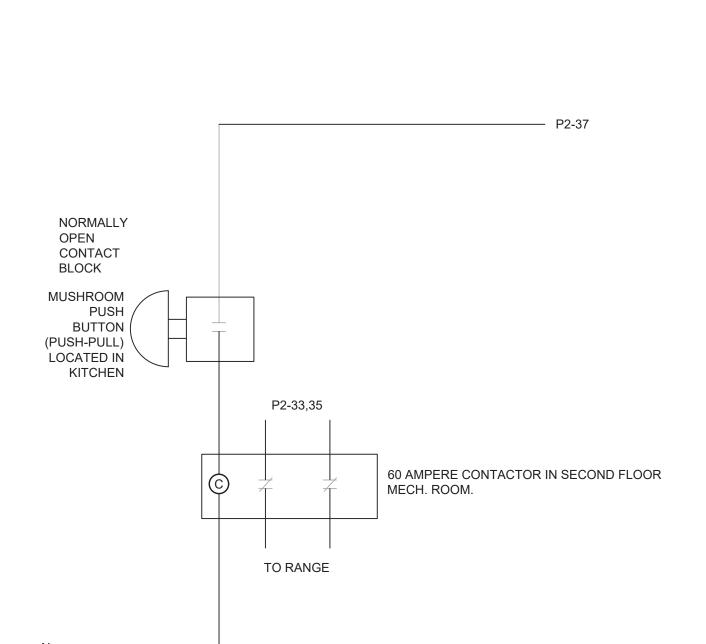
SHEET NUMBER

CHIME INSTALLATION DETAIL NO SCALE 4

TO 120V CIRCUIT. REFER TO FLOOR PLAN CEILING J-HOOK FOR STRAIN NEMA 5-20R — (20A, 125V) ~ NEMA 5-50R (50A, 125V) NOTE TO REVIEWER: WAKE COUNTY USES 50 AMPERE DEVICES PROTECTED AT 30 AMPERES FOR THIS APPLICATION. $\langle 4 \rangle$ FINISHED FLOOR

NOTES KEYED TO DETAIL:

- 1 JUNCTION BOX AT THE CEILING.
- 2 PROVIDE SO CORD SIZED AS FOLLOWS AND TO A DISTANCE OF 4'-0" ABOVE FINISHED FLOOR WITH A FEMALE PLUG ATTACHMENT AT 3-#12 SO CORD FOR 20A DROP. 3-#10 SO CORD FOR 30A DROP.
- PROVIDE STRAIN RELIEF CORD GRIPS AT EACH OUTLET AND AT CEILING MOUNTED J-HOOK.
- FOR EACH 20 AMPERE SHORE LINE DROP PROVIDE A 24" 20 AMPERE SO CORD (CORD LENGTH, NOT TOTAL LENGTH) WITH HUBBELL HBL5369C AND HBL5366C CONNECTORS. FOR EACH 30 AMPERE SHORE LINE DROP PROVIDE A 24" 30 AMPERE SO CORD (CORD LENGTH, NOT TOTAL LENGTH) WITH HUBBELL HBL7513C AND LAPP 720224FX CONNECTORS. CABLES ARE TO BE TURNED OVER TO THE OWNER AT THE END OF



RANGE/GRILL SHUTDOWN DETAIL NO SCALE 1

SHORELINE INSTALL. DETAIL NO SCALE 3