C-STORE / RETAIL SPACE

4095 PLEASANTDALE ROAD,
DORAVILLE, GA 30340

LDP AP #: 3108915

ABBREVIATIONS

A	AMPERES	JB	JUNCTION BOX
ACP	ACOUSTICAL CEILING PANEL	JT	JOINT
ADD'L	ADDITIONAL	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	LIN	LINEAR
ASF	ABOVE SUB FLOOR	LP	LOW POINT
ATS	ABOVE TOP OF SLAB	LT	LIGHT
ALT	ALTERNATE	LTG	LIGHTING
ALUM	ALUMINUM	LVL	LAMINATED VENEER LUMBER
APPROX	APPROXIMATE	MAX	MAXIMUM
BD	BOARD	MC	MECH. CONTRACTOR
BLDG	BUILDING	MCB	MAIN CIRCUIT BREAKER
BLK	BLOCK	MECH	MECHANICAL
BLKG	BLOCKING	MFR	MANUFACTURE (R) (ING)
BM	BEAM	MIN	MINIMUM
B.O.	BOTTOM OF	MISC	MISCELLANEOUS
BRG	BEARING	MLO	MAIN LUGS ONLY
B/	BOTTOM OF	MO	MASONRY OPENING
C	CONDUIT	MT	MOUNT
CB	CIRCUIT BREAKER	MTD	MOUNTED
C/C	CENTER TO CENTER	MTGHT	MOUNTING HEIGHT
CJ	CONSTRUCTION JOINT	MTL	METAL
CKT	CIRCUIT	N	NORTH OR NEUTRAL
CLG	CEILING	NEC	NATIONAL ELECTRIC CODE
CLR	CLEAR	NIC	NOT IN CONTRACT
CNTR	CENTER	NO or #	NUMBER
CMU	CONCRETE MASONRY UNIT	NOM	NOMINAL
CO	CLEAN OUT	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONSTR	CONSTRUCTION	OPNG	OPENING
CONTR	CONTRACTOR	OPP	OPPOSITE HAND
CONT	CONTINUOUS	PC	PLUMB. CONTRACTOR
DET	DETAIL	PLMB	PLUMBING
DIA	DIAMETER	PLYWD	PLYWOOD
DIM	DIMENSION	PNL	PANEL
DN	DOWN	PNLBD	PANEL BOARD
DS	DOWNSPOUT	PREFAB	PREFABRICATED
DW	DRY WALL	PROJ	PROJECT
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EA	EACH	R	RADIUS
EC	ELEC. CONTRACTOR	R	RISER
EF	EXHAUST FAN	RD	ROOF DRAIN
EL	ELEVATION	RECEPT	RECEPTACLE
ELEC	ELECTRIC (AL)	REINF	REINFORCING
ELEV	ELEVATOR	REQ'D	REQUIRED
EM	EMERGENCY	RES	RESILIENT
EPS	EXPANDED POLYSTYRENE	REV	REVISION
EQUIP	EQUIPMENT	RM	ROOM
EW	EACH WAY	RO	ROUGH OPENING
EWC	ELECTRIC WATER COOLER	RTU	ROOF TOP UNIT
EWH	ELECTRIC WATER HEATER	SECT	SECTION
FA	FIRE ALARM	SHT	SHEET
FD	FLOOR DRAIN	SIM	SIMILAR
FFE	FINISH FLOOR ELEVATION	SPEC	SPECIFICATIONS
FIN	FINISH	STL	STEEL
FLR	FLOOR	STRUCT	STRUCTURAL
FT	FEET	STRL.	STRUCTURAL
FTG	FOOTING	TEL	TELEPHONE
GALV	GALVANIZED	T & B	TOP AND BOTTOM
GC	GENERAL CONTRACTOR	T & G	TONGUE AND GROOVE
GFI	GROUND FAULT INTERUPTER	T	TREAD
GND	GROUND	T.O.	TOP OF
GWB	GYPSUM WALLBOARD	TYP	TYPICAL
HDW	HARDWARE	UON	UNLESS OTHERWISE NOTED
HM	HOLLOW METAL	V	VOLTS
HORIZ	HORIZONTAL	VCT	VINYL COMPOSITION TILE
HP	HIGH POINT OR HORSE POWER	VERT	VERTICAL
HT	HEIGHT	VWC	VINYL WALL COVERING
HVAC	HEATING/VENTILATION/AIR CONDITIONING	WC	WATER CLOSET
ID	INSIDE DIAMETER	WD	WOOD
IN	INCH	WH	WATER HEATER
INFO	INFORMATION	WP	WATER PROOF
INSUL	INSULATION	WR	WATER RESISTANT
INT	INTERIOR	W/	WITH
INV	INVERT	W/O	WITHOUT
		WWF	WELDED WIRE FABRIC

5

Applicable Codes

Building Code - 2018 INTERNATIONAL BUILDING CODE w/ 2020, 2022 GA. AMENDMENTS
Plumbing Code - 2018 INTERNATIONAL PLUMBING CODE w/ 2020, 2022, 2023 GA. AMEND.
Mechanical Code - 2018 INTERNATIONAL MECHANICAL CODE w/ 2020 GA. AMENDMENTS
Fuel Gas Code - 2018 INTERNATIONAL FUEL-GAS CODE w/ 2020, 2022 GA. AMENDMENTS
Electrical Code - 2020 NFPA 70 NATIONAL ELECTRICAL CODE w/ 2021 GA. AMENDMENTS
Fire Safety -2018 INTERNATIONAL FIRE CODE w/ 2022 GA. FIRE COMMISSIONER AMENDMENTS 120-3-3-.04 - 2018 NFPA 101 LIFE SAFETY CODE w/ 2022 GA. STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04(72)
Accessibility Code - GA. ACCESSIBILITY CODE CHAPTER 120-3-20(.01-.08) w/ 2022 GA. FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH .11 - 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN
Energy Code - 2015 INTERNATIONAL ENERGY CONSERVATION CODE w/ 2020, 2022, 2023 GA. AMENDMENTS

Building Design

Square Footage Proposed:	4,545 sq. ft. (MAIN) 1485 SQ. FT. (MEZZ)	
Occupancy Classification:	MERCANTILE - M	IBC SECTION 303.1
Construction Type:	Type V-B	IBC SECTION 602
Allowable Height and Area:	40 FT / 9,000 SF	IBC TABLE 504.3
Allowable Area w/ Frontage Incr:	12,000 (9,000 x 1.5 Table 506.3.3)	
Proposed Height and Area:	23 FT / 9,980 SF	(ONE STORY W/ MEZZANINE)

Automatic Sprinkler System:
NOT REQUIRED per 2018 IBC 903.2.7
The fire area LESS THAN 13,000 SF.
See Code Notes - 13 For Allowable Area
See Code Notes - 14 For Mezz.

Fire Ratings

Type V-B IBC TABLE 601

Structural Frame:	0 hrs
Interior Walls:	0 hrs
Bearing Walls (Ext & Int):	0 hrs
Non Bearing Wall & Partitions:	0 hrs
Floor Construction:	0 hrs
Roof Construction:	0 hrs

Means of Egress

(LSC Chapter 7 &12)

MERCANTILE, Group M - SEE LIFE SAFETY PLAN, SHEET LS100

Occupant Load = 122 LSC TABLE 7.3.1.2

MERCANTILE (1/30 SQFT STREET FLOOR) -	94
(1/60 SQFT MEZZANINE) -	8
KITCHEN (1/100 SQFT) -	3
TOTAL OCCUPANTS =	105

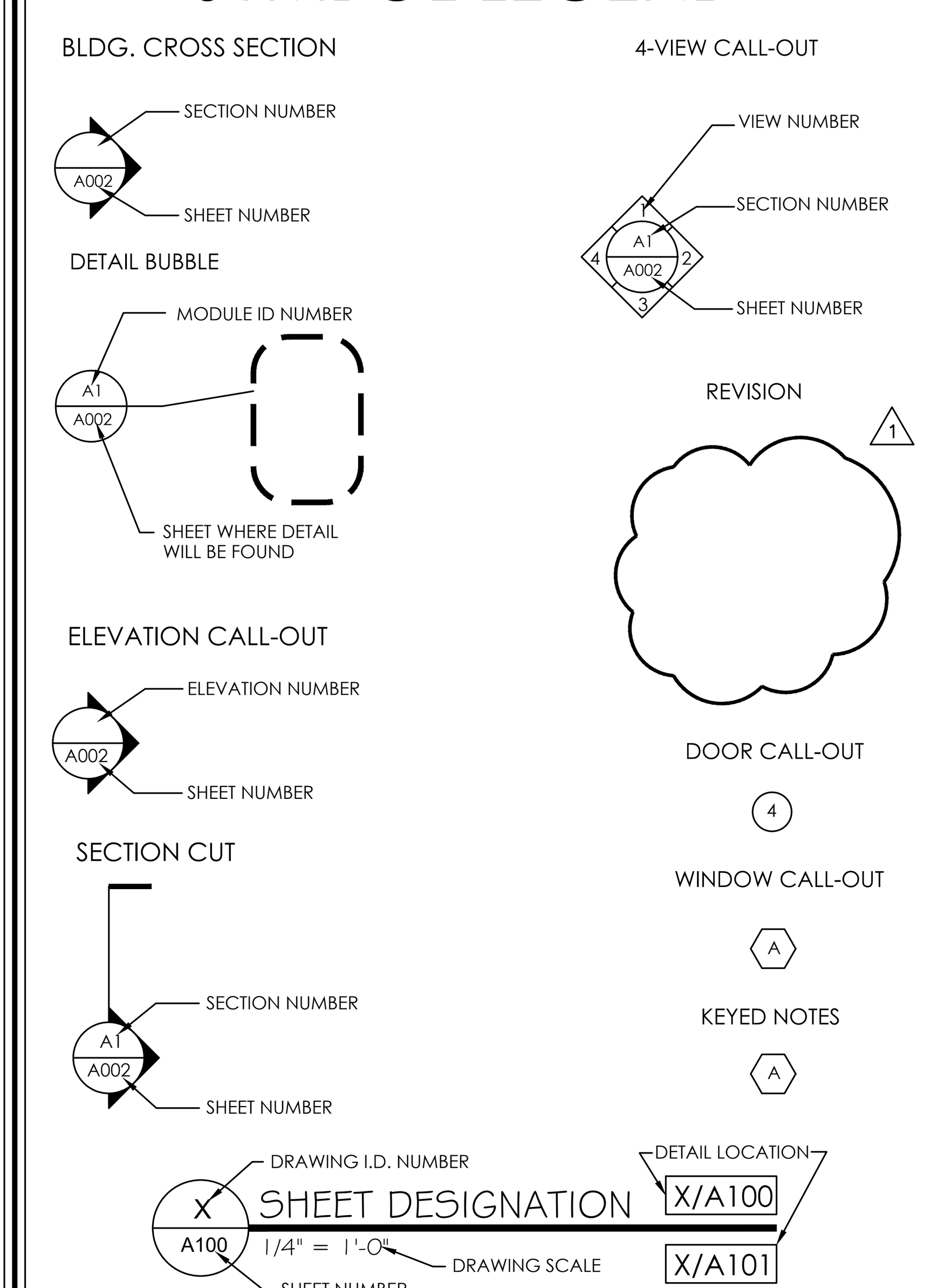
Number of Exits:		IFC 1006.3.2
1-500:	2 exits required, 3 provided	
Max. Travel Distance:	150' (Non Sprinklered)	LSC 14.2.6.2
Travel Distance Shown:	56'-0"	
Common Path of Travel Req'ed:	75' (Non Sprinklered) max.	
Common Path of Travel Provided:	68'	
Dead End Limit:	20' (Non Sprinklered) max.	
Exits Width:		IFC 1005.3.2
.2 x 149 =	29.8" required	
1x35" + 2x70"=	175" provided	

Plumbing

(Customer Restrooms)

Service Sink:	1 required 1 provided
Employee Restroom:	2 LAV AND 2 WC PROVIDED

SYMBOL LEGEND



GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS AND OWNER.
2. STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE DRAWINGS TO DETERMINE LOCATIONS. THE OWNER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONTINUING WORK.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES.
4. FOR CONSTRUCTION DETAILS THAT ARE NOT SHOWN, USE THE MANUFACTURER'S APPROVED SHOP DRAWINGS / DATA SHEETS IN ACCORDANCE WITH THE DRAWINGS.
5. ALL SPECIFIED MATERIALS MUST BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND THE MANUFACTURER'S REQUIREMENTS SHOULD BE IDENTIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION.
6. CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY AND ALL DISCREPANCIES FOUND ON THESE DOCUMENTS. IN THE ABSENCE OF NOTIFICATION OR RESPONSE FROM THE ARCHITECT THE CONTRACTOR WILL BID THE MOST EXPENSIVE CHOICE OF THE ITEMS IN QUESTION
7. NO EMAILS WILL SUPERSEDE THESE DRAWINGS, G.C. MUST CONTACT THE ARCHITECT BY PHONE OR SIGNED RFI's.

SCOPE OF WORK

NEW BUILD TWO STORY CONVINIANCE STORE, WITH FOOD SERVICE COUNTER, DRINK COOLERS, AND TABACCO SHOP ON THE FIRST FLOOR. ELEVATOR TO SECOND FLOOR FOR DRY GOOD STORAGE, OFFICES AND WORK AREA.

ARCHITECT'S NOTE:

THOMAS E. MORGAN, JR., THE ARCHITECT OF RECORD, HAS NOT BEEN ENGAGED TO PERFORM CONTRACT ADMINISTRATION WORK FOR THIS PROJECT. HE THEREFORE IS NOT RESPONSIBLE FOR INTERPRETING THE INTENT OF THE CONSTRUCTION DOCUMENTS DURING BIDDING AND CONSTRUCTION, INCLUDING MAKING MODIFICATIONS AS MAY BE NECESSARY DURING THE CONSTRUCTION PHASE; AND THE ARCHITECT OF RECORD WILL NO LONGER BE LIABLE FOR THE WORK WHERE CHANGES TO THESE DOCUMENTS HAVE BEEN MADE.

CODE NOTES:

1 FINAL INSPECTION: ALL SYSTEMS, EQUIPMENT INSTALLED AND OPERATING, READY FOR OCCUPANCY. THE INSPECTION REQUEST MUST BE PHONED IN THE DAY PRIOR TO THE DATE THE INSPECTION IS NEEDED.

2 OCCUPANCY CLASSIFICATION:__M___, TYPE OF CONSTRUCTION:__V-B___, SPRINKLED:__NO__, FIRE SPRINKLER MONITORING:_NO_, 1-HOUR PROTECTED:__YES_, BUILDING AREA IN SQUARE FEET:_9,980__, NUMBER OF STORIES:__2__, MEZZANINE:__N/A___, CALCULATED LOAD FOR OCCUPANCY:__149__.

3 FIRE ALARM PROVIDED FOR ANNUNCIATING SPRINKLER SYSTEM, IF REQUIRED.

4 (DOORS) GENERAL SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE, CHAPTER 7, SEC. 7.2.1, 2018 EDITION. FIRE DOOR ASSEMBLIES SHALL CONFORM TO NFPA 80.

5 ***(FIRE EXTINGUISHERS)*** PROVIDE PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY IBC SECTION 906 IN ACCORDANCE W/ IFC 2018. THE SIZE SHALL BE A MINIMUM OF 2 - 2a; 10B-C, SEE A-2.0 AND 2 CLASS K 1.5 GAL., 80LB PORTABLE FIRE EXTINGUISHERS SEE A-2.0 ARE REQUIRED AND SHALL BE INSTALLED AT A MAX. OF 48" ABOVE THE FINISHED FLOOR TO THE TOP OF THE HANDLE. TRAVEL DISTANCE TO A FIRE EXTINGUISHER SHALL NOT EXCEED 75' FOR CLASS A, C & D FIRES. FIRE EXTINGUISHERS SHALL NOT BE OBSTRUCTED OR OBSCURED FROM VIEW. FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE IN THE EVENT OF FIRE. PREFERABLY THEY SHALL BE LOCATED ALONG NORMAL PATHS OF TRAVEL, INCLUDING EXITS FROM AREA. ALL WORK AND INSPECTIONS OF PORTABLE FIRE EXTINGUISHERS SHALL BE PERFORMED BY A STATE CERTIFIED AGENT.

6 (SIGNAGE FOR RESTROOM): SHALL BE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHTS SHALL BE 60 INCHES ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN.

7 THE (STREET NUMBER/BUILDING NUMBER) MUST BE VISIBLE FROM THE STREET THAT PROVIDES DRIVEWAY ACCESS TO THE PROPERTY AND PLACED ON A CONTRASTING BACKGROUND THAT PROVIDES 24 HOUR VISIBILITY. THE STREET NUMBER MUST ALSO MEET ONE OF THE FOLLOWING SIZE REQUIREMENTS: (1) IF THE STREET NUMBER OR PLACED WITHIN 15 FEET OR LESS OF THE CURB OR EDGE OF PAVEMENT OF THE STREET, THE STREET NUMBER SHALL BE POSTED IN FIGURES AT LEAST 4 INCHES IN HEIGHT. (2) IF THE STREET NUMBER IS PLACED MORE THAN 15 FEET FROM THE CURB OR EDGE OF PAVEMENT OF THE STREET, THE STREET NUMBER SHALL BE POSTED IN FIGURES AT LEAST 6 INCHES IN HEIGHT. INTERNATIONAL FIRE CODE, CHAPTER 5, SECTION 505.1, 2018 EDITION.

8 THE DRAWINGS WERE REVIEWED UNDER THE APPLICABLE LAWS AT THE TIME.

9 EVERY EFFORT WAS MADE TO ENSURE CODE COMPLIANCE. ANY CODE VIOLATIONS THAT WERE MISSED DURING THE PLAN REVIEW ARE THE OWNER'S RESPONSIBILITY AND MUST BE CORRECTED IN ORDER TO RECEIVE APPROVAL OR A CERTIFICATE OF OCCUPANCY.

10 THE FOLLOWING PLANS MUST BE SUBMITTED AND APPROVED PRIOR TO THE START OF ANY CONSTRUCTION IN THEIR DISCIPLINE: HOOD EXHAUST SYSTEM, TRUSS DESIGN PLANS AND INDIVIDUAL TRUSS DRAWINGS.

11 KNOX BOX LOCATIONS ARE TO BE COORDINATED WITH FIRE MARSHAL. 5

12. CALCULATION OF ALLOWABLE AREA W/ FRONTAGE INCREASE COMES FROM TABLE 506.3.3 WITH THE PERCENTAGE OF OPEN SPACE BEING 50% AND THE OPEN DISTANCE BEING GREATER THAN 30 FEET. THE RESULTING FACTOR IS 0.50.50, ALLOWABLE 9000 x 1.5 = 13,500.

13 MEZZANINE 1485 SF / MAIN 4545 SF =.327 (PERCENTAGE OF MEZZ COMPARED TO MAIN) .327 < .33 FOR MEZZ, LIMIT OF 1/3.

15 OCCUPANT LOAD OF ENCLOSED MEZZ. AREA = 8 PERSONS MAX TRAVEL TO EXT. ENCLOSURE IS 68 FT, WHICH IS LESS THAN 75 FT - (COMMON PATH - SINGLE EXIT.) NFPA 36.2.4.3.

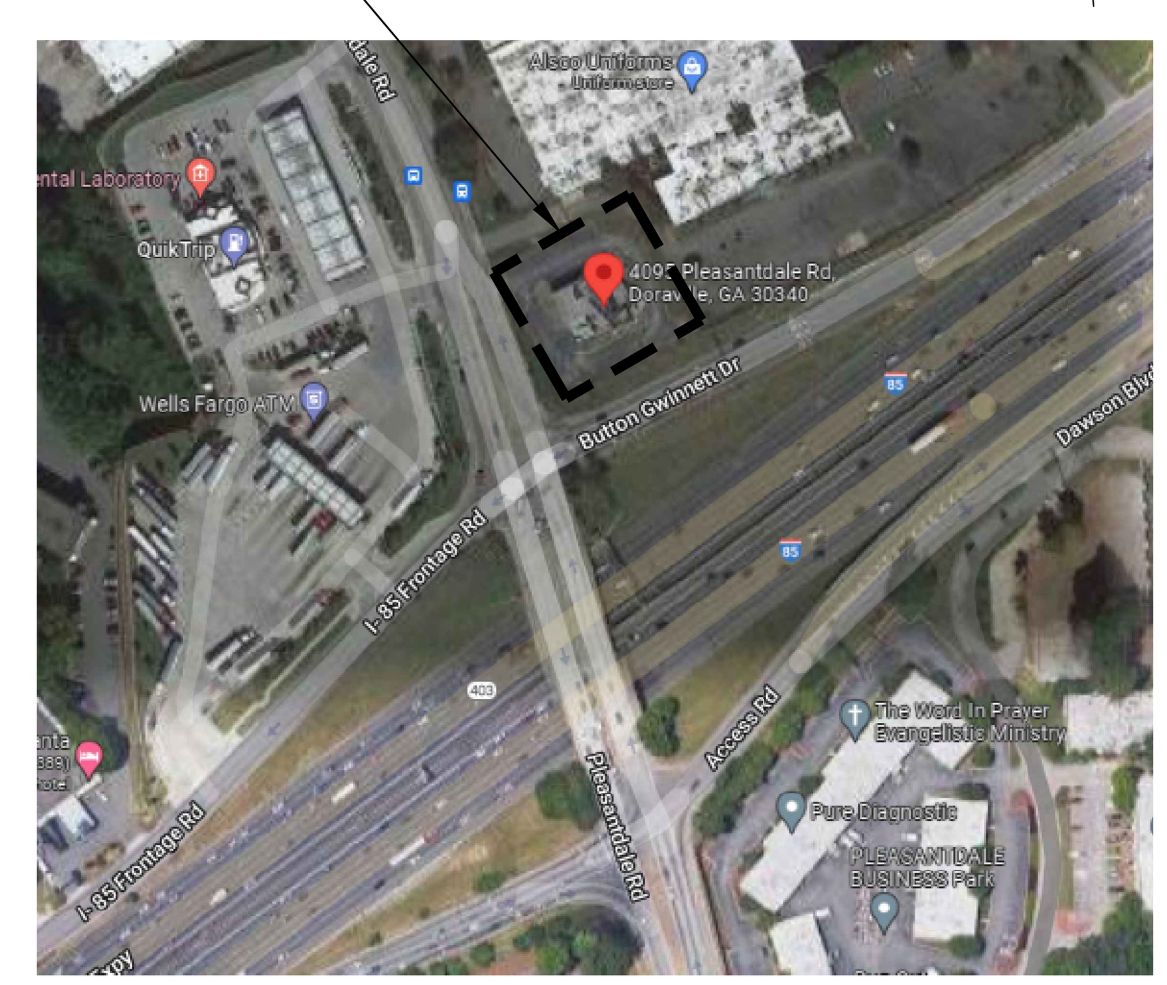
NOTES TO CONTRACTOR:

1. PROVIDE ADDRESS ON BUILDING IN COMPLIANCE WITH SECTION AS PER IBC SECTION 501.2.
2. AS PER 7.2.2.3.2. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDINGS, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1 IN 20, PER 7.1.6.3.1
3. GLAZING IN HAZARDOUS LOCATIONS SHALL COMPLY WITH IBC SECTION 2406 AS IDENTIFIED IN 2406.4.
4. MAINTAIN REQUIRED SLOPE AS PER MANUFACTURER'S SPEC'S FOR ROOFING MATERIAL.

LOCATION MAP

SITE LOCATION

NORTH



SHEET INDEX

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Kennesaw, Georgia 30144
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F. 770-917-9470
www.mrpdesign.com

ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
04.28.22	RELEASED FOR CONSTRUCTION
05.24.22	REV. 1 PER COMMENTS
09.08.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS
01.17.24	REV. 6 REVISED ELEVATOR SHAFT

DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
COVER SHEET

PROJECT NO: 21035

G000

COM*check* Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	Doraville GA.
Location:	Doraville, Georgia
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	10%

Construction Site:	Owner/Agent:	Designer/Contractor:
4905 Pleasantdale Rd. Doraville, Georgia 30340	Don Leonard Stroud and Company 427 8th St. Macon, Georgia 31201 478-743-5097 dleonard@stroudandcompany.com	Robert Gifford MRP Design 3450 Acworth Due West Rd. Kennesaw, Georgia 30144 7709179172110 rgifford@mrpdesign.com

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Building Area	Floor Area
1-Retail : Nonresidential	9980

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Insulation Entirely Above Deck, 3-Year-Aged Solar Reflectance = 68.00, Thermal Emittance = 0.84 (c), [Bldg. Use 1 - Retail]	9980	---	30.0	0.032	0.039
NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Retail]	1486	20.0	0.0	0.064	0.064
EAST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Retail]	2565	20.0	0.0	0.064	0.064
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Retail]	21	---	---	3.000	0.179
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Retail]	21	---	---	3.000	0.179
SOUTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Retail]	1486	20.0	0.0	0.064	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	24	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	24	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	24	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	24	---	---	0.320	0.460
Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Retail]	21	---	---	3.000	0.179

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
WEST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Retail]	2550	20.0	0.0	0.064	0.064
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite + Sungate 400, SHGC 0.15, PF 0.31, [Bldg. Use 1 - Retail] (b)	66	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	58	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, PF 0.39, [Bldg. Use 1 - Retail] (b)	116	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	116	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, PF 0.31, [Bldg. Use 1 - Retail] (b)	102	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	77	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	77	---	---	0.320	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, [Bldg. Use 1 - Retail] (b)	40	---	---	0.320	0.460
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, PF 0.31, [Bldg. Use 1 - Retail] (b)	48	---	---	0.320	0.770
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID Graylite II + Sungate 400, SHGC 0.15, PF 0.31, [Bldg. Use 1 - Retail] (b)	48	---	---	0.320	0.770

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) High albedo roof requirement options: 1) 3-year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

Envelope PASSES: Design 3% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title ____ Signature ____ Date ____

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	Doraville GA.
Project Type:	New Construction

Construction Site:	Owner/Agent:	Designer/Contractor:
4905 Pleasantdale Rd. Doraville, Georgia 30340	Don Leonard Stroud and Company 427 8th St. Macon, Georgia 31201 478-743-5097 dleonard@stroudandcompany.com	Robert Gifford MRP Design 3450 Acworth Due West Rd. Kennesaw, Georgia 30144 7709179172110 rgifford@mrpdesign.com

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Retail	9980	1.13	11317
		Total Allowed Watts =	11317

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Retail				
LED: TYPE A/B: 2X2 LED TROFFER: LED Panel 36W:	1	34	35	1190
LED: TYPE C: 4' LED STRIPLIGHT: LED Panel 36W:	1	3	35	105
LED: TYPE F: 4" LED DOWNLIGHT: LED Linear 22W:	1	30	22	660
LED: TYPE M: LED PENDANT: LED Panel 70W:	1	42	66	2772
			Total Proposed Watts =	4727

Interior Lighting PASSES: Design 58% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title ____ Signature ____ Date ____

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	Doraville GA.
Project Type:	New Construction
Exterior Lighting Zone	2 (Light industrial area with limited nighttime use (LZ2))

Construction Site:	Owner/Agent:	Designer/Contractor:
4905 Pleasantdale Rd. Doraville, Georgia 30340	Don Leonard Stroud and Company 427 8th St. Macon, Georgia 31201 478-743-5097 dleonard@stroudandcompany.com	Robert Gifford MRP Design 3450 Acworth Due West Rd. Kennesaw, Georgia 30144 7709179172110 rgifford@mrpdesign.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Illuminated area of facade wall or surface	8430 ft2	0.1	No	843
Parking area	35600 ft2	0.06	Yes	2136
			Total Tradable Watts (a) =	2136
			Total Allowed Watts =	2979
			Total Allowed Supplemental Watts (b) =	600

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Illuminated area of facade wall or surface (8430 ft2): Non-tradable Wattage				
LED: TYPE G: LED WALLPACK: LED Panel 70W:	1	6	72	432
LED: TYPE N: LED SOFFIT LIGHT: LED Panel 40W:	1	11	40	440
Parking area (35600 ft2): Tradable Wattage				
LED: SITE TYPE A: LED POLE MT: LED Roadway-Parking Unit 130W:	1	4	135	540
			Total Tradable Proposed Watts =	540

Exterior Lighting PASSES: Design 80% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title ____ Signature ____ Date ____

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	Doraville GA.
Location:	Doraville, Georgia
Climate Zone:	3a
Project Type:	New Construction

Construction Site:	Owner/Agent:	Designer/Contractor:
4905 Pleasantdale Rd. Doraville, Georgia 30340	Don Leonard Stroud and Company 427 8th St. Macon, Georgia 31201 478-743-5097 dleonard@stroudandcompany.com	Robert Gifford MRP Design 3450 Acworth Due West Rd. Kennesaw, Georgia 30144 7709179172110 rgifford@mrpdesign.com

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Mechanical Systems List

Quantity	System Type & Description
1	RTU-1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 115 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 78% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 2 Supply, Constant Volume, 2000 CFM, 2.0 motor nameplate hp, 80.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency
1	RTU-2 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 115 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 78% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 2 Supply, Constant Volume, 2000 CFM, 2.0 motor nameplate hp, 80.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency
1	RTU-3 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 115 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 78% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 2 Supply, Constant Volume, 2000 CFM, 2.0 motor nameplate hp, 80.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency
1	WH-1: Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump

Quantity	System Type & Description
	Proposed Efficiency: 80.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title ____ Signature ____ Date ____

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR3][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.1 [PR10][1]	The vertical fenestration area <= 30 percent of the gross above-grade wall area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C402.4.1 [PR11][1]	The skylight area <= 3 percent of the gross roof area.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.2 [PR14][1]	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2.1 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.5, C403.2.4.6 [FO9][3]	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12][2]	Fenestration products rated in accordance with NFRC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.1.3 [FR13][1]	Fenestration products are certified as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.4.3 [FR10][1]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8][1]	Vertical fenestration U-Factor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.4 [FR14][2]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1 [FR16][1]	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.2, C402.5.4 [FR18][3]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.7 [FR17][3]	Vestibules are installed on all building entrances. Doors have self-closing devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.1, C404.6.2 [PL3][1]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.7 [PL8][3]	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.7 [PL8][3]	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.7 [PL8][3]	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.7 [PL8][3]	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.5, C403.2.4.3 [ME3][3]	Stair and elevator shaft vents have motorized dampers that automatically close.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.13 [ME71][2]	Unenclosed spaces that are heated use only radiant heat.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.3 [ME55][2]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.2.4.7 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.7 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.7 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.6.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.6.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.7 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.8 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.9 [ME60][2]	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.2.9 [ME10][2]	Ducts and plenums sealed based on static pressure and location.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.9.1.3 [ME11][3]	Ductwork operating >3 in. water column requires air leakage testing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.9.1.3 [ME11][3]	Ductwork operating >3 in. water column requires air leakage testing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.9.1.3 [ME11][3]	Ductwork operating >3 in. water column requires air leakage testing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.3 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.4.6 [ME110][3]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.4.4.6 [ME110][3]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.4.4.6 [ME110][3]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C404.2.1 [ME111][2]	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.2.3 [EL23][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.1 [EL22][2]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3 [EL16][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.5 [EL25][null]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3][1]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.1 [IN10][2]	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.2.1 [IN14][2]	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.2.1 [IN17][3]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C104 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18][3]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.3 [IN5][3]	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and thermal emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C104 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.1 [IN1][1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.3 [FI51][3]	Where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening are located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms are sealed and insulated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.6 [FI37][1]	Weatherseals installed on all loading dock cargo doors.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.5.8 [FI26][3]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.2 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.2.1, C403.2.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.2.3 [FI41][3]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.2.3 [FI41][3]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.2.4.2.3 [FI41][3]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.3 [FI11][3]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.4 [FI25][2]	All piping insulated in accordance with section details and Table C403.2.10.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.1 [FI12][3]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.1 [FI31][1]	HVAC equipment has been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.2 [FI10][1]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.3.3 [FI32][1]	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI7][3]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.3 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5.4 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

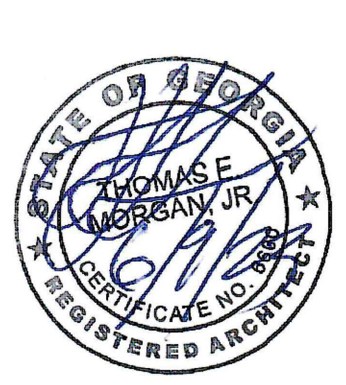
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:



STROUD
AND COMPANY

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ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
04.28.22	RELEASED FOR CONSTRUCTION
05.24.22	REV. 1 PER COMMENTS
09.08.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS

DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

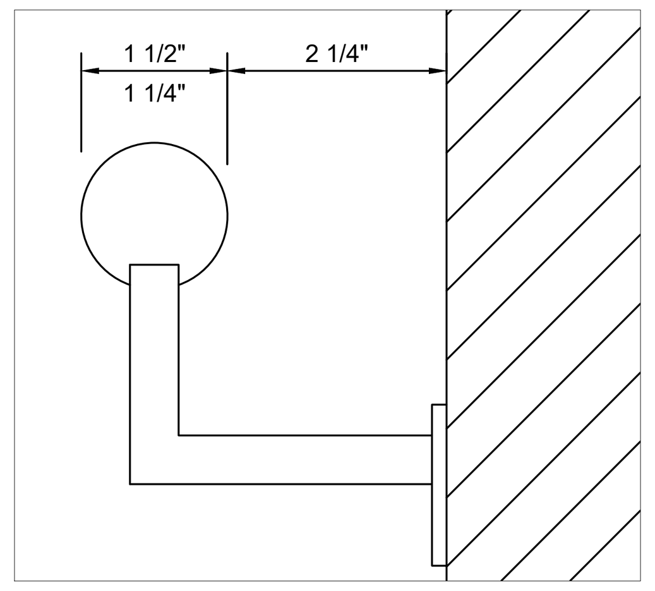
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

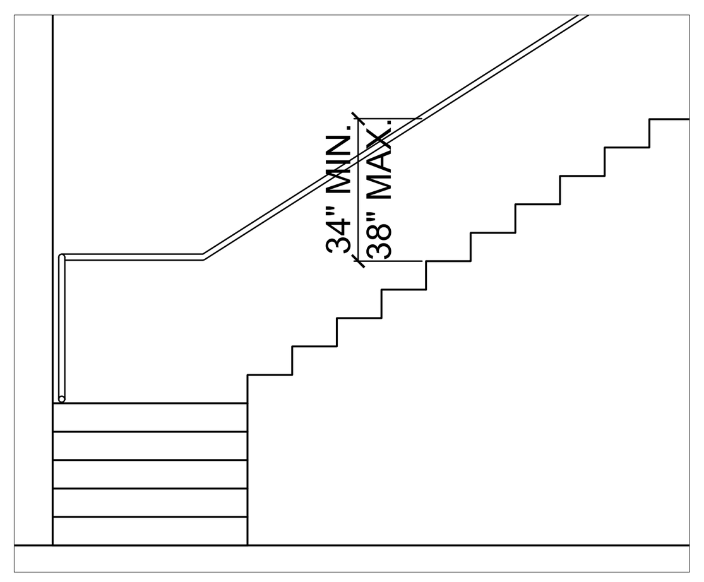
ENERGY COMPLIANCE REPORT

PROJECT NO: 21035

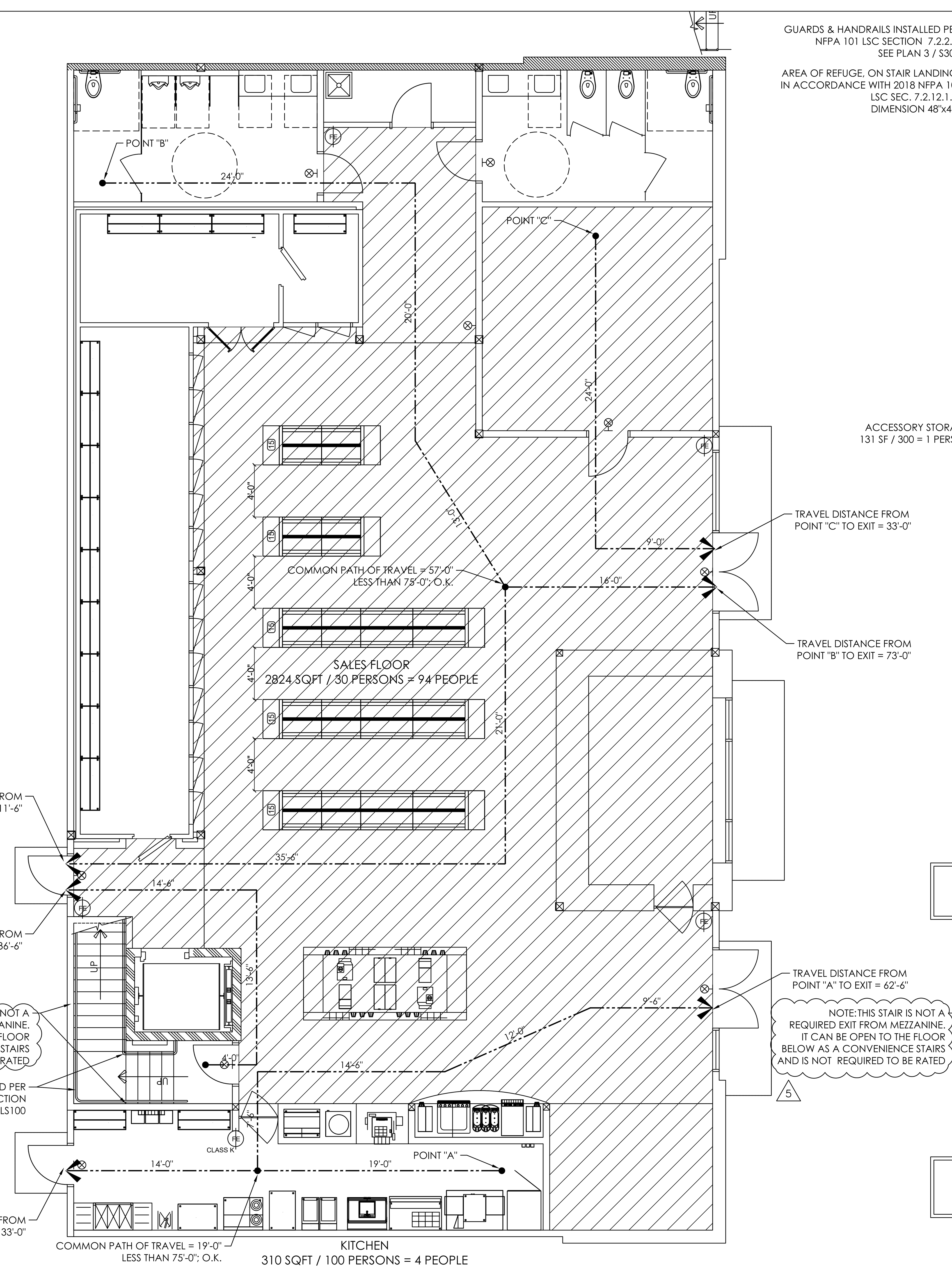
G001



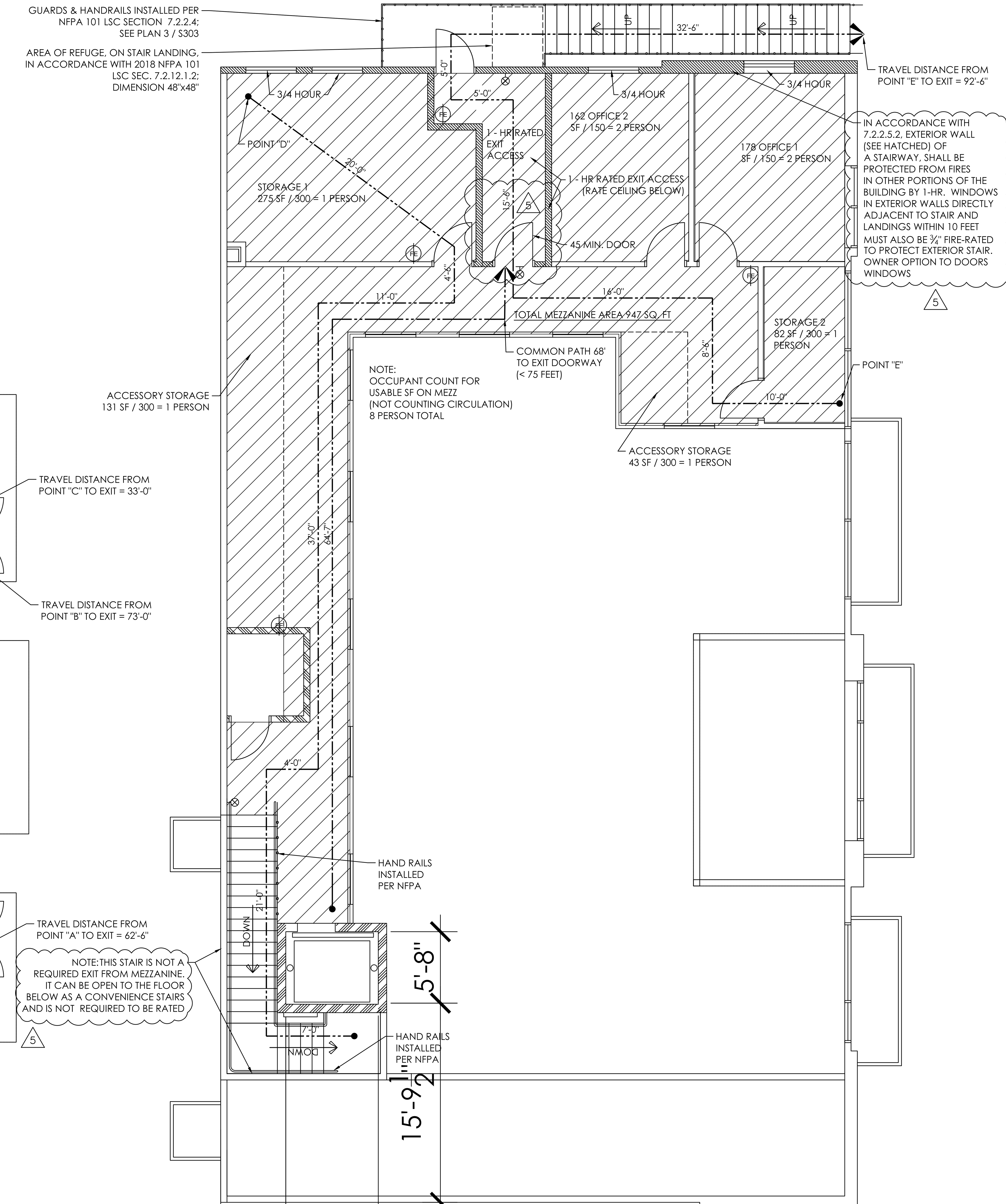
A STAIR RAIL SECTION DETAIL
LS-100 6" = 1'-0"



B STAIR RAIL DETAIL
LS-100 6" = 1'-0"



1 LIFE SAFETY 1st FLOOR PLAN
LS-1.0 3/16" = 1'-0"



2 LIFE SAFETY 2nd FLOOR PLAN
LS-1.0 3/16" = 1'-0"

CODE DATA:

Building Code - 2018 INTERNATIONAL BUILDING CODE w/ 2020, 2022 GA. AMENDMENTS
Plumbing Code - 2018 INTERNATIONAL PLUMBING CODE w/ 2020, 2022 GA. AMENDMENTS
Mechanical Code - 2018 INTERNATIONAL MECHANICAL CODE w/ 2020 GA. AMENDMENTS
Fuel Gas Code - 2018 INTERNATIONAL FUEL-GAS CODE w/ 2020, 2022 GA. AMENDMENTS
Electrical Code - 2020 NFPA 70 NATIONAL ELECTRICAL CODE w/ 2021 GA. AMENDMENTS
Fire Safety -2018 INTERNATIONAL FIRE CODE w/ 2020 GA. FIRE COMMISSIONER AMENDMENTS 120-3-3-.04 - 2018 NFPA 101 LIFE SAFETY ODE w/ GA. STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04(72)
Accessibility Code - GA. ACCESSIBILITY CODE CHAPTER 120-3-20(.01-.08) w/ 2020 GA. FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH .11 - 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN
Energy Code - 2015 ENERGY CONSERVATION CODE w/ 2020, 2022 GA. AMENDMENTS

CODE SUMMARY - MERCANTILE CLASS B; 2018 LIFE SAFETY CODE, 36.1.2.2.1 (2)

CONSTRUCTION TYPE: V-B
OCCUPANCY: M
OCCUPANT LOAD - (LSC TABLE 7.3.1.2)

MERCANTILE (1/30 SQFT STREET FLOOR) -	94
(MEZZANINE /OCC. SEE PLAN) -	8
KITCHEN (1/100 SQFT) -	3
TOTAL OCCUPANTS =	105

SPRINKLER REQUIREMENTS (LSC 9.7.1.1 & NFPA 13) **NOT** REQUIRED, LESS THAN 300 OCCUPANTS

TRAVEL DISTANCE (LSC 36.2.6) 150'-0" MAX ALLOWED WITHOUT SPRINKLER SYSTEM; 136'-6" MAX PROVIDED

COMMON PATH OF EGRESS TRAVEL (LSC 36.2.5.3)
75'-0" MAX ALLOWED
68'-0" MAX PROVIDED

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR. ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

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ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

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04.03.23	REV. 4 PER COMMENTS
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DRAWN BY:
CHK'D BY:

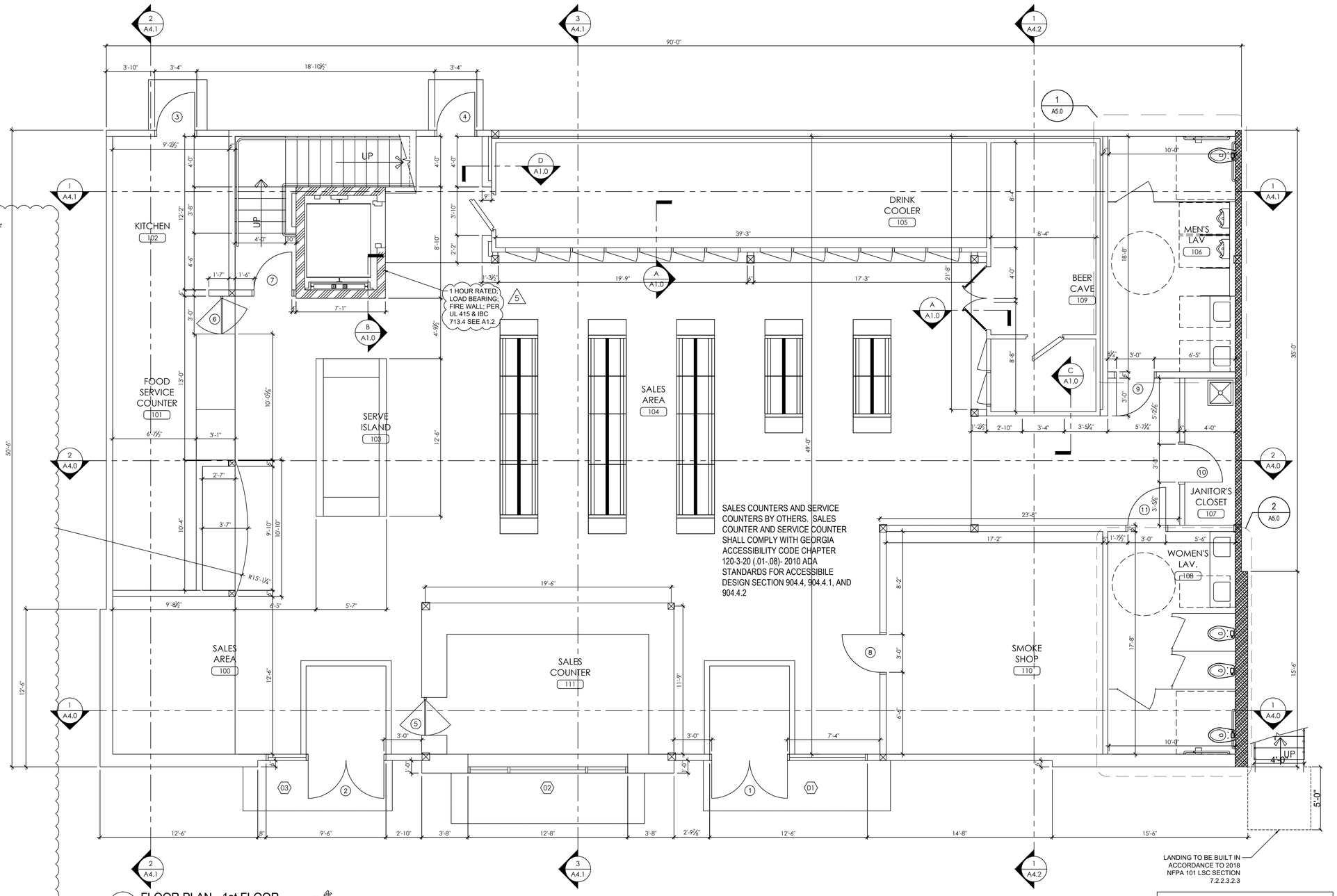
PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

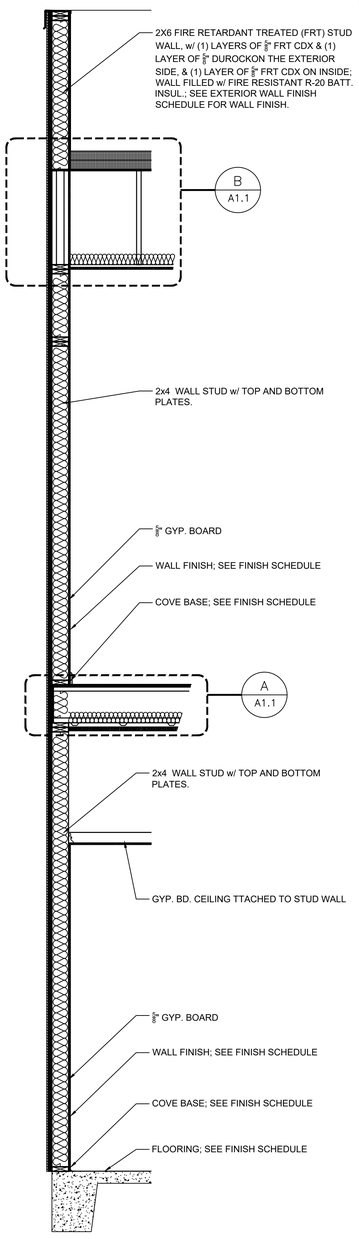
PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
FLOOR PLAN

PROJECT NO: 21035

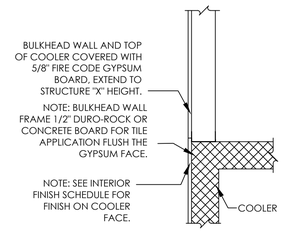
LS100



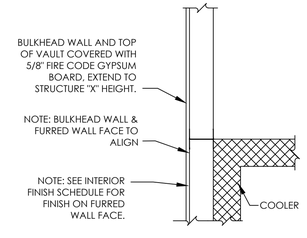


2 A1.1 WALL DETAIL - INTERIOR; TYP.
1/4" = 1'-0"

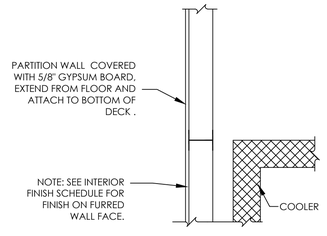
1 A1.0 FLOOR PLAN - 1st FLOOR
1/4" = 1'-0"



A A1.0 FURRING DETAIL - ABOVE COOLER
3/16" = 1'-0"



C A1.0 FURRING DETAIL - SIDE OF COOLER
3/16" = 1'-0"



D A1.0 DETAIL - SIDE OF COOLER
3/16" = 1'-0"

SYMBOL LEGEND:

- DOOR NUMBER
- GLAZING NUMBER; SEE ELEVATIONS FOR ALL NUMBERED WINDOWS
- FE - FIRE EXTINGUISHER K - CLASS K 2A - CLASS A
- EXIT / EGRESS LIGHT
- EGRESS LIGHT

SEE SHEET A1.1 FOR DOOR & WINDOW SCHEDULES

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

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SEAL:

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DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

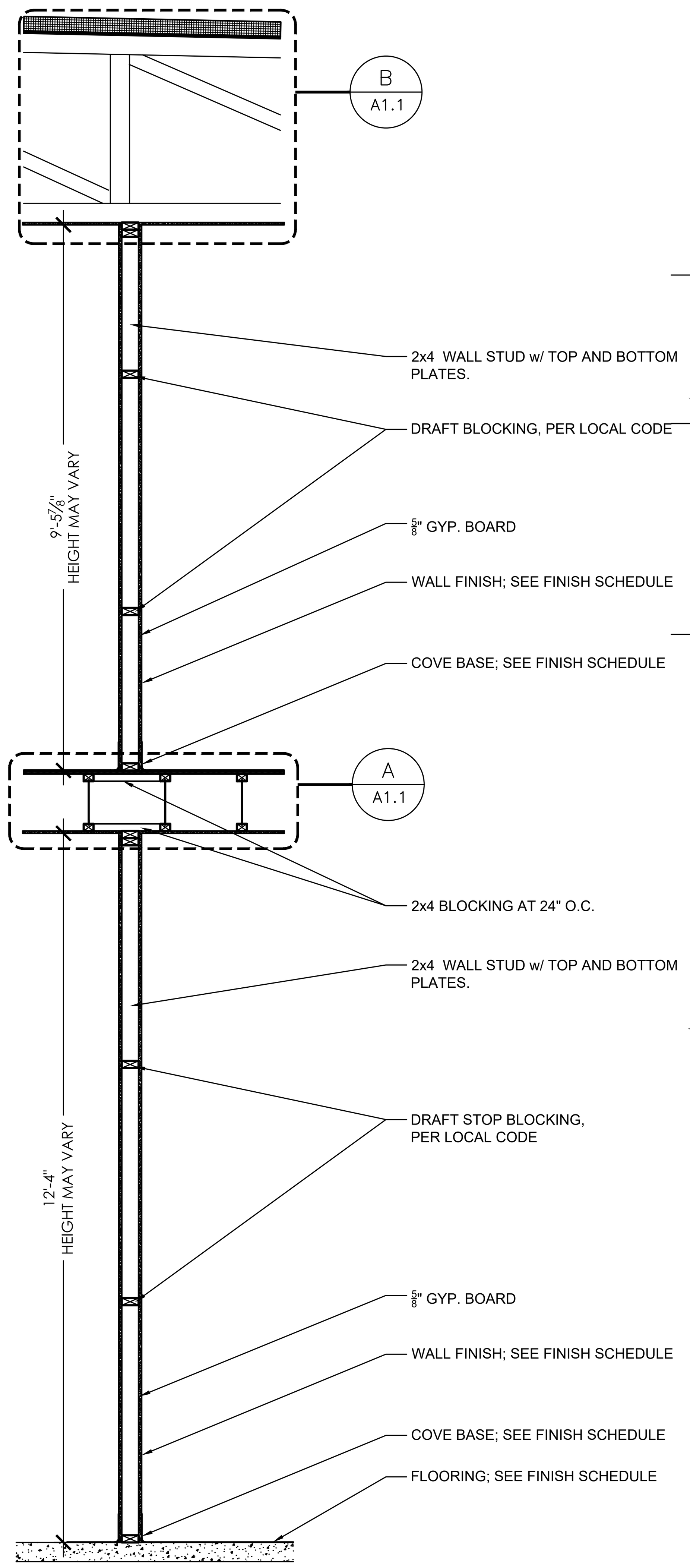
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

1ST FLOOR PLAN

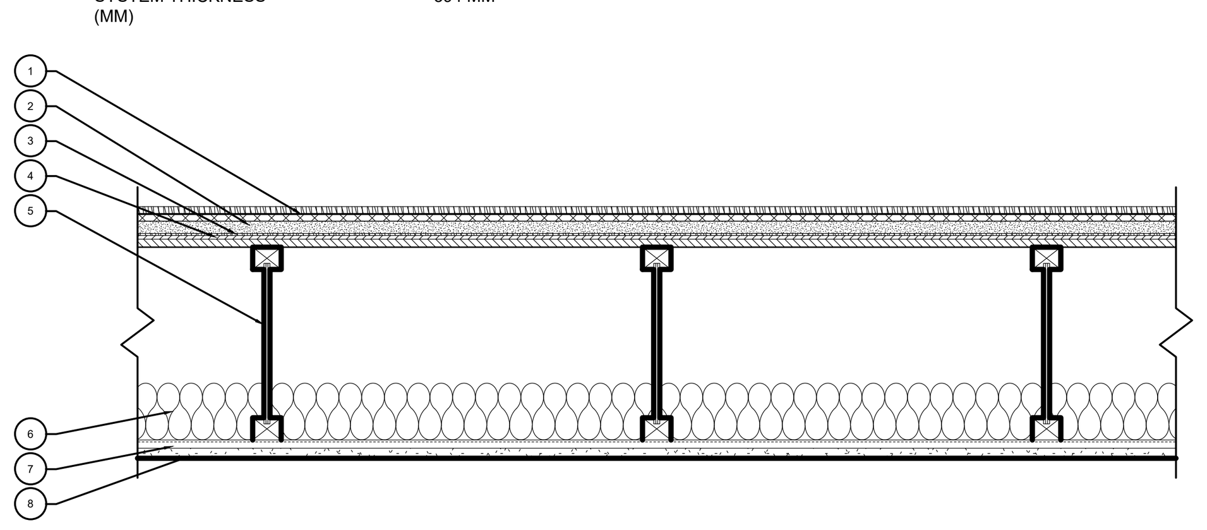
PROJECT NO: 21035

A1.0



2 / A1.1 — **WALL DETAIL - INTERIOR; TYP.**
1/4" = 1'-0"

UL DESIGN NO.	UL L570, UL M532
FIRE	1 HOUR
CONSTRUCTION	11 7/8" [302 MM] WOOD ENGINEERED
SOUND TRANSMISSION CLASS	59 IST
IMPACT INSULATION CLASS	78
SOUND	H5048.06
SYSTEM THICKNESS	15.49 IN.
SYSTEM THICKNESS (MM)	394 MM



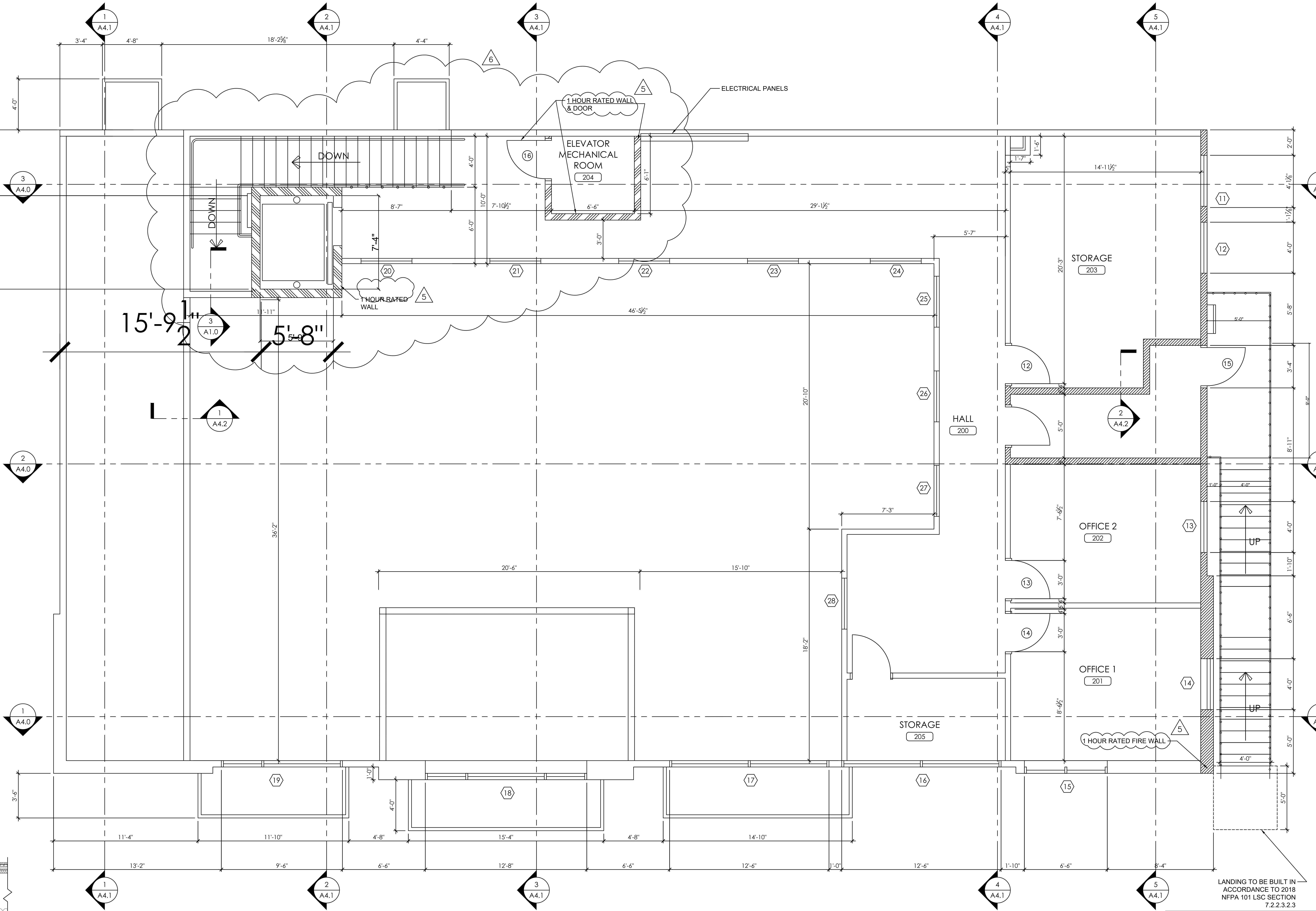
ASSEMBLY REQUIREMENTS:

1.	FINISH FLOORING:	1/2" (BY OTHERS)
2.	SUBFLOOR TOPPING MIXTURE:	3/4" [19 MM] USG LEVELROCK® BRAND 2500 SERIES FLOOR UNDERLAYMENTS
3.	SOUND ATTENUATION MAT:	1/8" [3.2 MM] USG LEVELROCK® SAM-N12™ SOUND ATTENUATION MAT
4.	SUBFLOOR:	23/32" [18.2 MM] WOOD STRUCTURAL PANEL
5.	STRUCTURE:	11-7/8" [302 MM] WOOD I-JOISTS, AT 2' [610 MM] O.C.
6.	INSULATION:	3-1/2" [89 MM] GLASS FIBER BATT INSULATION, SUPPORTED BY RESILIENT CHANNEL
7.	RESILIENT CHANNEL:	1/2" [12.7 MM] RESILIENT CHANNEL, 25 GA. (0.018"), SPACED 24" [610 MM] O.C. MAX.
8.	GYPSUM PANEL:	5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)

GENERAL FLOOR CEILING NOTES:

1. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED ASSEMBLY IN THE UL PRODUCT IQ™ DATABASE OR GA DESIGN MANUAL.
2. FRAMING SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
3. FRAMING AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
4. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED ASSEMBLY.
5. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
6. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
7. WHERE DESIGN NO. INDICATES " PER ", THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.

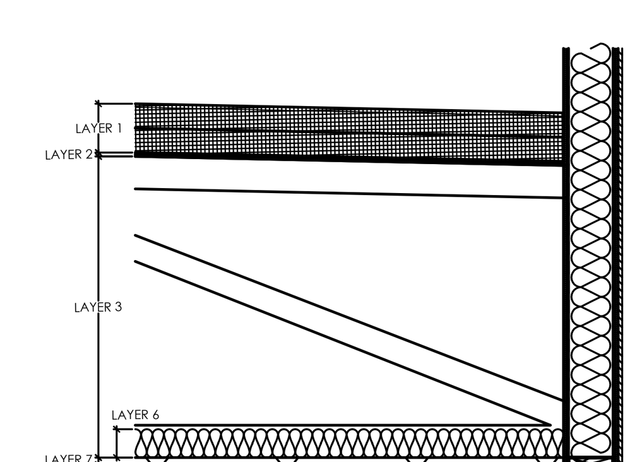
A / A1.1 — **1 HOUR RATED CEILING / FLOOR DETAIL**
1/4" = 1'-0"



1 / A1.1 — **FLOOR PLAN - 2nd FLOOR**
1/4" = 1'-0"

FIRE - RESISTANCE RATINGS - ANSI/UL263

BXUV - FIRE RESISTANCE RATINGS - ANSI/UL 263 CERTIFIED FOR UNITED STATES
DESIGN NUMBER - P522, JUNE 9, 2022
UNRESTRAINED ASSEMBLY RATED - 1 HOUR
DESIGN NUMBER - L520, FEBRUARY 4, 2022
UNRESTRAINED ASSEMBLY RATED - ¾ HOUR



B / A1.1 — **1 HOUR RATED ROOF / CEILING DETAIL**
1/4" = 1'-0"

UL DESIGN NO. UL P522

FIRE RATING:	1 HOUR
STC:	N/A
SYSTEM THICKNESS:	VARIES (SEE NOTE)

ASSEMBLY NOTES

LAYER 1 - ROOFING SYSTEM:	ANY UL CLASS A, B, OR C ROOFING SYSTEM (TGFU OR PREPARED ROOF COVING (TFWZ)
LAYER 2 - ROOF SHEATHING:	NOM. 15/32" THICK WOOD STRUCTURAL PANELS, MIN. GRADE "C-D" OR "SHEATHING"
LAYER 3 - TRUSSES:	PITCHED O PARALLEL CHORD WOOD TRUSSES, SPACED 24" MAX. O.C., FABRICATED FROM NOM. 2x4 LUMBER, ORIENTE VERTICALLY OR HORIZONTALLY. MIN. TRUSS DEPTH SHALL BE 5 1/4" WITH A MIN. ROOF SLOPE OF 3 / 12
LAYER 4 - AIR DUCT:	ANY UL CLASS 0 OR CLASS 1 FLEXIBLE AIR DUCT
LAYER 5 - CEILING DAMPER:	MAX. NOM. AREA, 324 SQ IN. WITH WIDTH OF 18" MAX., DAMPER HEIGHT 14" MAX.
LAYER 6 - INSULATION:	3 1/2" THICK MIN. BATTS AND BLANKETS DRAPED OVER RESILIENT CHANNEL AND GYPSUM BOARD CEILING MEMBRANE
LAYER 7 - RESIIENT CHANNELS:	1/2" DEEP, 25 GA. INSTALLED PERPENDICULAR TO THE TRUSSES, SPACED 16" O.C.
LAYER 8 - GYPSUM BOARD:	5/8" THICK GYPSUM BOARD (UL TYPE ULIX)

SYMBOL LEGEND:

- ○ DOOR NUMBER
- ⬡ GLAZING NUMBER; SEE ELEVATIONS FOR ALL NUMBERED WINDOWS
- FE - FIRE EXTINGUISHER
  - K - CLASS K
  - 2A - CLASS A
- EXIT / EGRESS LIGHT
- EGRESS LIGHT

SEE SHEET A1.1 FOR DOOR & WINDOW SCHEDULES

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR. ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STROUD AND COMPANY

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ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
04.28.22	RELEASED FOR CONSTRUCTION
05.24.22	REV. 1 PER COMMENTS
09.08.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS
01.17.24	REV. 6 REVISED ELEVATOR SHAFT

DRAWN BY:
CHK'D BY:

PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
2ND FLOOR PLAN & ROOM FINISH SCHEDULE

PROJECT NO: 21035

A1.1

FIRE - RESISTANCE RATINGS - ANSI/UL 263

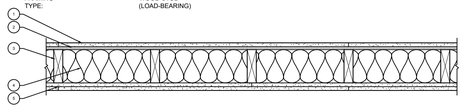
BXUV - FIRE RESISTANCE RATINGS - ANSI/UL 263 CERTIFIED FOR UNITED STATES
DESIGN NUMBER - U305, MAY 27, 2022
BEARING WALL RATED - 1 HOUR
DESIGN NUMBER - U423, FEBRUARY 14, 2022
BEARING WALL RATED - $\frac{3}{4}$, 1, 1 $\frac{1}{2}$, OR 2 HOUR
DESIGN NUMBER - U425, JUNE 6, 2022
BEARING WALL RATED - $\frac{3}{4}$, 1, 1 $\frac{1}{2}$, OR 2 HOUR
DESIGN NUMBER - U415 A, FEBRUARY14, 2022
NONBEARING WALL RATED - 1, 2, 3, OR 4 HOUR

NOTES:

- ALL NON LOAD BEARING INTERIOR PARTITION WALLS EXCEEDING 9'-0" IN HEIGHT SHALL BE LATERALLY BRACED TO THE BUILDING STRUCTURE.
- THROUGH - PENETRATION FIRE STOP SYSTEMS FOR PIPES, CABLES, CABLE TRAYS, INSULATED PIPE, AND COMBINED PENETRATIONS TO BE "3M FIRE BARRIER FOAM FIP 1 - STEP". SEE UL INFORMATION ABOVE.
- INSULATING MATERIALS, WHERE CONCEALED IN BUILDINGS OF ANY TYPE OF CONSTRUCTION, SHALL HAVE A FLAME SPREAD INDAEX OF NOT MORE THAN 25 AND A SMOKE - DEVELOPED INDEX OF NOT MORE THAN 450, PER 2018 IBC SEC.720.2.
- GYPSUM BOARD IN WET LOCATIONS SHALL BE IN ACCORDANCE WITH REFERENCED CODE SECTION 2018 IBC SEC. 2509.
- WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVEASMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS THAN 4 FEET ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE, 2018 IBC SEC. 1209.2.2.
- A TYPE I HOOD SHALL BE INSTALLED WITH A CLEARANCE TO COMBUSTIBLES OF NOT LESS THAN 18 INCHES, 2018 IMC SEC. 507.2.6.
  - EXCEPTIONS:
    - CLEARANCE SHALL NOT BE REQUIRED FROM GYPSUM WALLBOARD OR $\frac{1}{4}$" OR THICKER CEMENTITIOUS WALLBOARD ATTACHED TO NONCOMBUSTIBLE STRUCTURES PROVIDED THAT A SMOOTH, CLEANABLE, NONABSORBENT AND NONCOMBUSTIBLE MATERIAL IS INSTALLED BETWEEN THE HOOD AND GYPSUM OR CEMENTITIOUS WALLBOARD OVER AN AREA EXTENDING NOT LESS THAN 18 INCHES IN ALL DIRECTIONS FROM THE HOOD.
    - TYPE I HOODSLISTED AND LABELED FOR CLEARANCES LESS THAN 18 INCHES IN ACCORDANCE WITH UL 710 SHALL BE INSTALLED WITH THE CLEARANCES SPECIFIED BY SUCH LISTINGS.

UL DESIGN NO. UL U305

FIRE RATING:	1 HOUR
STC RATING:	53
SOUND TEST:	USG-161213
SYSTEM	7-7/8" [200
LOCATION ::	INTERIOR
FRAMING	WOOD STUD
TYPE:	(LOAD-BEARING)



ASSEMBLY REQUIREMENTS:

1.	GYPSUM PANELS:	ONE LAYER 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)
2.	RESILIENT CHANNEL:	1/2" [12.7 MM] RESILIENT CHANNEL, 25 GA. (0.018"), 24" [610 MM] O.C.
3.	WOOD STUDS:	2" X 6" [38 X 140 MM] WOOD STUDS, 16" [406 MM] O.C.
4.	INSULATION:	6-1/4" [159 MM] KNAUF ECOBATT® INSULATION
5.	GYPSUM PANELS:	TWO LAYERS 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)

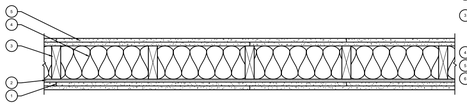
GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDIC PEI , THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

A A1.2 — WALL DETAIL - 1 HR RATED WALL, LOAD BEARING
1/4" = 1'-0"

UL DESIGN NO. UL U301

FIRE RATING:	2 HOURS
STC RATING:	54-58
SOUND TEST:	ESTIMATED
SYSTEM	8-1/2" [216
LOCATION ::	EXTERIOR
FRAMING	WOOD STUD
TYPE:	(LOAD-BEARING)



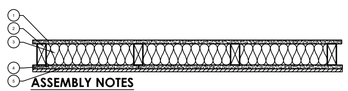
ASSEMBLY REQUIREMENTS:

1.	GYPSUM PANELS:	TWO LAYERS 5/8" [15.9 MM] SECUROCK® ULTRALIGHT GLASS-MAT SHEATHING (UL TYPE USGX)
2.	RESILIENT CHANNEL:	1/2" [12.7 MM] RESILIENT CHANNEL, 25 GA. (0.018"), 24" [610 MM] O.C.
3.	WOOD STUDS:	2" X 6" [38 X 140 MM] WOOD STUDS, 16" [406 MM] O.C.
4.	INSULATION:	5-1/2" [140 MM] KNAUF ECOBATT® INSULATION
5.	GYPSUM PANELS:	TWO LAYERS 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYP ULIX™)

GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDIC PEI , THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

C A1.2 — WALL DETAIL - 1 HR RATED WALL, LOAD BEARING, EXTERIOR
1/4" = 1'-0"

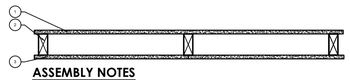


ASSEMBLY NOTES

1.	GYPSUM BOARD:	ONE LAYERS $\frac{5}{8}$" THICK GYP. BD. (UL TYPE SCX)
2.	WOOD STUDS:	2x6 WOOD STUDS, 16" O.C. (BRACED TO EXTERIOR STUDS, EVERY 10'-0")
3.	INSULATION:	3 $\frac{1}{2}$" GLASS FIBER BATT INSULATION IN CAVITY
4.	GYPSUM BOARD:	ONE LAYER $\frac{5}{8}$" THICK GYP. BD. (UL TYPE AR)
5.	EXT. WALL FINISH:	SEE FINISH SCHEDULE

E A1.2 — NOY USED
1/4" = 1'-0"

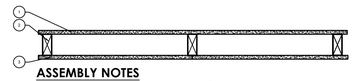
F A1.2 — WALL DETAIL - NON RATED, LOAD BEARING, EXTERIOR
1/4" = 1'-0"



ASSEMBLY NOTES

1.	GYPSUM BOARD:	ONE LAYERS $\frac{5}{8}$" THICK GYP. BD. (UL TYPE FRX-G)
2.	WOOD STUDS:	2x4 WOOD STUDS, 24" O.C. (BRACED TO DECK C EXTERIOR WALL)
3.	GYPSUM BOARD:	ONE LAYER $\frac{5}{8}$" THICK GYP. BD. (UL TYPE FRX-G)
4.	INT. WALL FINISH:	SEE FINISH SCHEDULE

H A1.2 — WALL DETAIL - NON LOAD BEARING, INTERIOR
1/4" = 1'-0"



ASSEMBLY NOTES

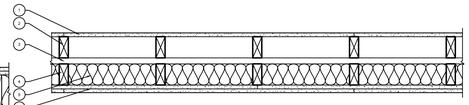
1.	GYPSUM BOARD: OF	ONE LAYERS $\frac{5}{8}$" DUROCK WALL BOARD (INTERIOR REST ROOMS AND JANITOR'S CLOSET ONLY)
2.	WOOD STUDS:	2x4 WOOD STUDS, 24" O.C. (BRACED TO DECK O EXTERIOR WALL)
3.	GYPSUM BOARD:	ONE LAYER $\frac{5}{8}$" THICK GYP. BD. (UL TYPE ULIX)
4.	INT. WALL FINISH:	SEE FINISH SCHEDULE

I A1.2 — WALL DETAIL - NON LOAD BEARING, INTERIOR
1/4" = 1'-0"

B A1.2 — NOT USED
1/4" = 1'-0"

UL DESIGN NO. PER UL U305

FIRE RATING:	1 HOUR
STC RATING:	57
SOUND TEST:	USG-170919
SYSTEM	9-7/8" [251
LOCATION ::	INTERIOR
FRAMING	WOOD STUD
TYPE:	(LOAD-BEARING)



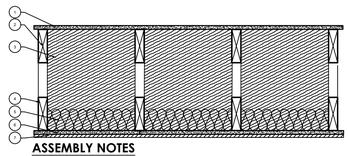
ASSEMBLY REQUIREMENTS:

1.	GYPSUM PANELS:	ONE LAYER 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)
2.	WOOD STUDS:	2" X 4" [38 X 89 MM] WOOD STUDS, 16" [406 MM] O.C.
3.	AIR SPACE:	1" [25 MM] AIR SPACE
4.	WOOD STUDS:	2" X 6" WOOD STUDS, 16" [406 MM] O.C.
5.	INSULATION:	3-1/2" [89 MM] FIBERGLASS INSULATION
6.	GYPSUM PANELS:	TWO LAYERS 5/8" [15.9 MM] SHEETROCK® ECOSMART GYPSUM PANEL (UL TYPE ULIX™)

GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDICATES , THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
5. STUD AND FASTENER SPACINGS ARE MAXIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
6. PANEL ORIENTATION SHALL BE AS SPECIFIED IN THE PUBLISHED DESIGN.
7. FIRE-RATINGS ARE FROM BOTH SIDES UNLESS OTHERWISE STATED.
8. FIRE-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, INCREASE STUD MATERIAL THICKNESS, DECREASE STUD SPACING, DECREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH.
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

D A1.2 — WALL DETAIL - 1 HR RATED FIRE WALL, LOAD BEARING, EXTERIOR
1/4" = 1'-0"



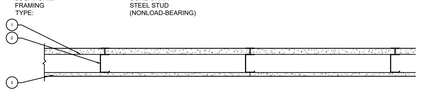
ASSEMBLY NOTES

1.	GYPSUM BOARD:	ONE LAYERS $\frac{5}{8}$" THICK GYP. BD. (UL TYPE SCX)
2.	WOOD STUDS:	2x6 WOOD STUDS, 16" O.C. (BRACED TO EXTERIOI STUDS, EVERY 10'-0")
3.	SMOKE BAFFLE:	ONE LAYERS $\frac{3}{4}$" THICK PLYWOOD EVERY 10'-0" (TURNED HORIZONTAL)
4.	WOOD STUDS:	2x6 WOOD STUDS, 16" O.C. (BRACED TO INTERIOR STUDS EVERY 10'-0")
5.	INSULATION:	3 $\frac{1}{2}$" GLASS FIBER BATT INSULATION IN CAVITY
6.	GYPSUM BOARD:	ONE LAYER $\frac{5}{8}$" THICK GYP. BD. (UL TYPE AR)
7.	EXT. WALL FINISH:	SEE FINISH SCHEDULE

G A1.2 — WALL DETAIL - NON RATED, LOAD BEARING, EXTERIOR
1/4" = 1'-0"

UL DESIGN NO. UL U415 UL System A

FIRE RATING:	1 HOUR
STC RATING:	39
SOUND TEST:	USG-040901
SYSTEM	4-5/8" [117
LOCATION ::	CORE-SHAFT
FRAMING	STEEL STUD
TYPE:	(NONLOAD-BEARING)



ASSEMBLY REQUIREMENTS:

1.	GYPSUM PANELS:	ONE LAYER 1" [25.4 MM] SHEETROCK® GYPSUM LINER PANELS (UL TYPE SLX)
2.	STEEL STUDS:	4" [102 MM] CH STUDS, 25 GA. (0.018"), 24" [610 MM] O.C.
3.	GYPSUM PANELS:	ONE LAYER 5/8" [15.9 MM] SHEETROCK® GYPSUM PANEL (UL TYPE SCX)

GENERAL WALL NOTES:

1. REFER TO APPLICABLE CODES REQUIREMENTS TO ENSURE COMPLIANCE PRIOR TO CONSTRUCTION.
2. FOR THE MOST UP-TO-DATE DETAILS, INCLUDING CONSTRUCTION VARIATIONS, REFER TO THE PUBLISHED DESIGN.
3. WHERE DESIGN NO. INDICATES " PER " , THE FIRE RATING IS BASED ON LABORATORY TEST DATA OF THE REFERENCED SIMILARLY CONSTRUCTED ASSEMBLIES.
4. STUD SIZES AND INSULATION THICKNESS ARE MINIMUM UNLESS OTHERWISE STATED IN THE PUBLISHED ASSEMBLY.
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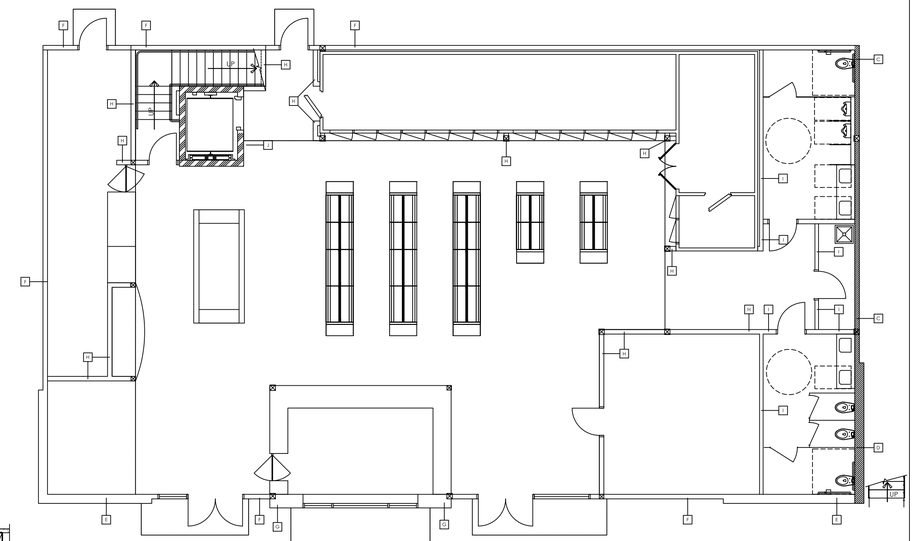
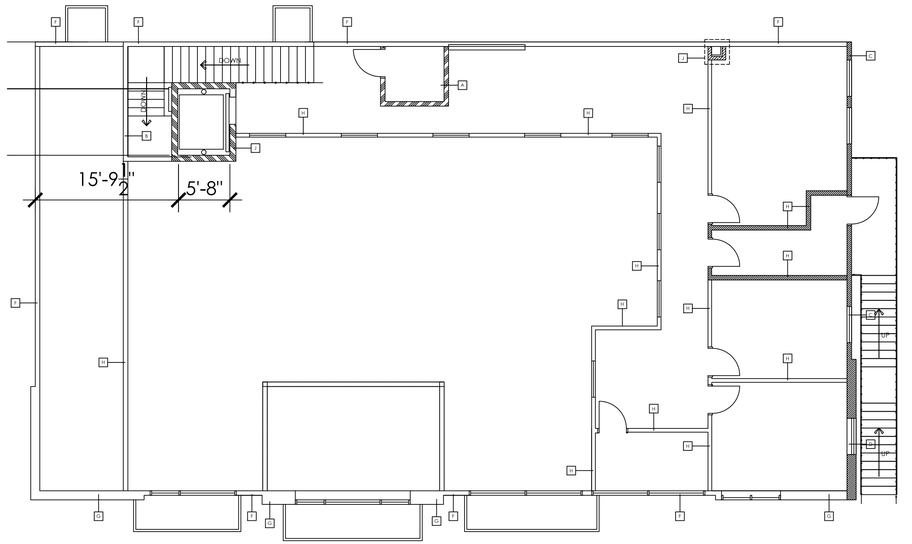
9. WHERE ACOUSTICAL PERFORMANCE IS PROVIDED IN AN ESTIMATED RANGE, THE VALUES ARE BASED ON LABORATORY TEST DATA OF SIMILARLY CONSTRUCTED ASSEMBLIES.
10. SOUND-RATINGS ARE MAINTAINED WITH ONE OR MORE OF THE FOLLOWING MODIFICATIONS: INCREASE STUD DEPTH, DECREASE STUD MATERIAL THICKNESS, INCREASE STUD SPACING, INCREASE FASTENER SPACING, INCREASE INSULATION THICKNESS UP TO CAVITY DEPTH. MODIFICATIONS MUST NOT EXCEED LIMITATIONS OF FIRE RATING.

J A1.2 — WALL DETAIL - SHAFT WALL
1/4" = 1'-0"



1 A1.2 — WALL TYPE PLAN - 1st FLOOR
1/8" = 1'-0"



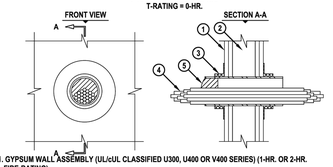
2 A1.2 — WALL TYPE PLAN - 2nd FLOOR
1/8" = 1'-0"

FIRE - RESISTANCE RATINGS - ASTM E814/UL 1479

XHEZ - THROUGH-PENETRATION FIRESTOP SYSTEMS "3M FIRE BARRIER RATED FOAM FIP 1 - STEP"
CERTIFICATE NUMBER - 20201016 - R9700
REPORT REFERENCE - R9700
ISSUE DATE - OCTOBER 16, 2020
ANSI/UL 1479 FIRE TESTS OF PENETRATION FIRESTOPS

XHEZ - THRIUGH-PENETRATION FIRESTOP SYSTEMS "UNIQUE FIRESTOP SLEEVE"
SYSTEM NO. C-AJ-3282
ISSUE DATE - JULY 02, 2018
ANSI/UL 1479 FIRE TESTS OF PENETRATION

UL/cUL SYSTEM NO. W-L-3282
CABLE BUNDLE THROUGH "UNIQUE FIRESTOP SLEEVE" IN 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 3-1/2" WIDE.
3. UNIQUE FIRESTOP PRODUCTS, DIVISION OF "IT'S UNIQUE" INC. SMOOTH SLEEVE, THREADED SLEEVE, OR SPLIT SLEEVE (2" AND 4" SIZES).
4. CABLE BUNDLE TO BE A COMBINATION OF ANY OF THE FOLLOWING :
   A. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
   B. MAXIMUM 750 KCMIL POWER CABLE WITH PVC JACKET.
   C. MAXIMUM 7/C NO. 12 AWG POWER CABLE WITH PVC JACKET.
   D. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLE (MAXIMUM 24 FIBER).
   E. MAXIMUM 3/C NO. 12 AWG METAL-CLAD CABLE WITH PVC JACKET.
   F. MAXIMUM 1" DIAMETER METAL-CLAD TEK CABLE WITH PVC JACKET.
   G. MAXIMUM 2/0 ALUMINUM SER CABLE.
   H. TYPE RG 59/U COAXIAL CABLE WITH PVC JACKET.
5. ONE HILTI CP 658T FIRESTOP PLUG CUT TO FIT AROUND THE CABLE BUNDLE AND INSTALLED TIGHTLY WITHIN SLEEVE SUCH THAT THE OUTER CIRCUMFERENCE OF THE DOME SHAPED PLUG IS FLUSH WITH EITHER END OF SLEEVE. WHEN SPLIT SLEEVE IS USED, INSTALL TWO HILTI CP 658T FIRESTOP PLUGS, FLUSH WITH BOTH ENDS OF SLEEVE.

NOTES : 1. MAXIMUM DIAMETER OF OPENING IN WALL FOR 2-7/16" AND 4-1/2" SIZES ARE 3-1/4", AND 4-1/2", RESPECTIVELY.
2. CABLES TO FILL MAXIMUM 50% OF CROSS-SECTIONAL AREA OF OPENING.
3. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3".

HILTI FIRESTOP SYSTEMS
HILTI, Inc.
Tulsa, Oklahoma USA (918) 252-6000
Sheet 1 of 1 | Scale 9/64" = 1" | Date APR. 19, 2005 | Drawing No. WL 3282a
Saving Lives through Innovation and Education

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR.
ARCHITECT
423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STROUD AND COMPANY

MRP DESIGN GROUP
3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
04.28.22	RELEASED FOR CONSTRUCTION
05.24.22	REV. 1 PER COMMENTS
09.08.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS

DRAWN BY:
CHK'D BY:

PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
WALL TYPE & UL RATED WALLS PLAN

PROJECT NO: 21035

5
A1.2

INTERIOR LIGHTING SYMBOL LEGEND:

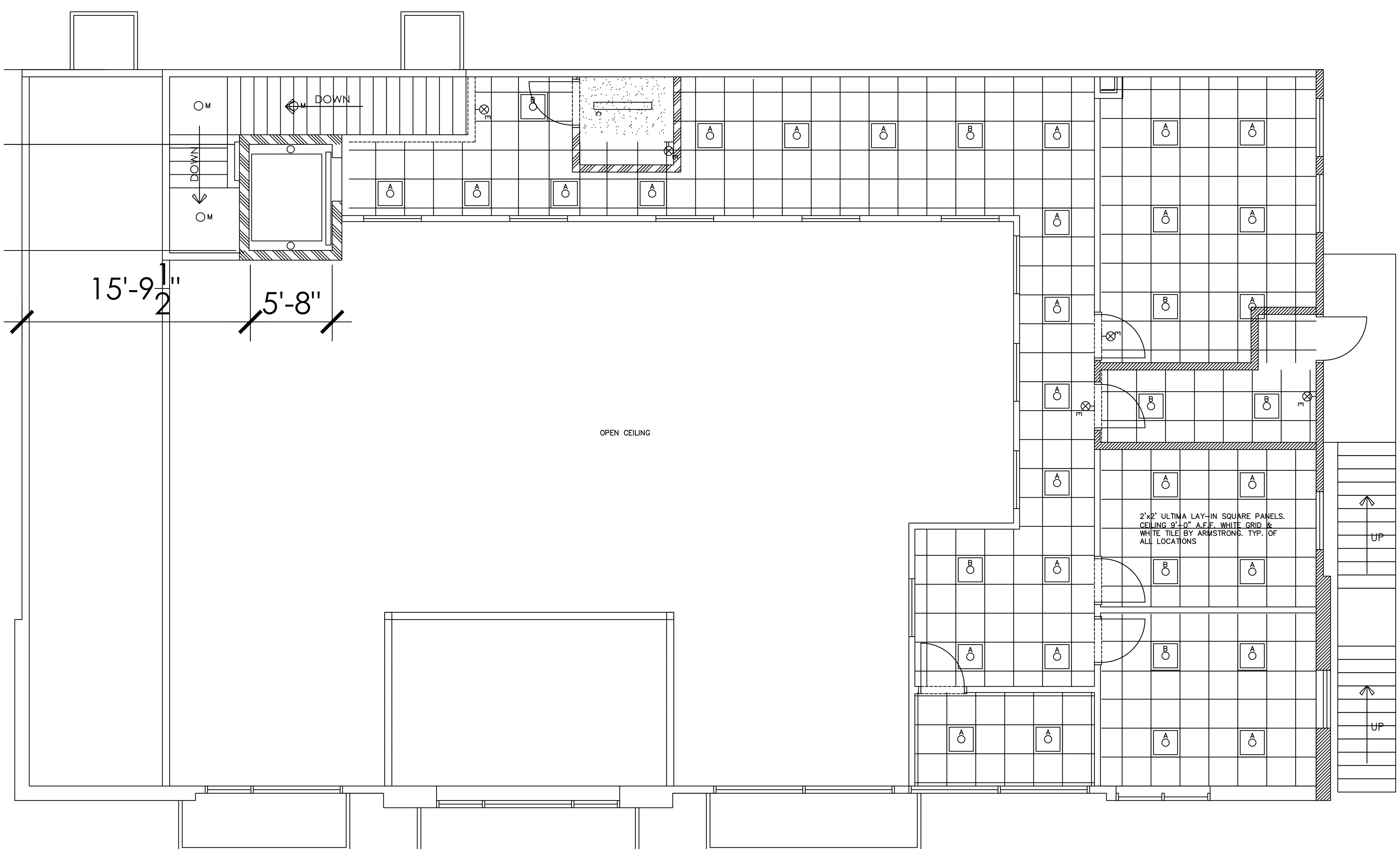
A.	2'x2' FLAT MAX BACKLIT FLAT PANELS LAY-IN FIXTURE 5000K BY MAXLITE. #MLFP-22BL30CS. 5000K CCT.
B.	2'x2' FLAT MAX BACKLIT FLAT PANELS LAY-IN FIXTURE 5000K W/ BATTERY BACKUP BY MAXLITE. #MLFP-22BL30CS-EM. 5000K CCT.
C.	LED ENCLOSED & GASKETED CEILING MOUNT FIXTURE BY MAXLITE. LSV4U4550
E.	EXIT AND EMERGENCY LIGHTING TO BE INSTALLED PER LOCAL CODES. PHILLIPS CHLORIDE. #CLC-N-RB
F.	4" RECESSED LED DOWNLIGHT 5000K WHITE FINISH.
M.	LED INTERIOR ROUND LUMINAIRE EDGE SERIES 5000K BY CREE LIGHTING. #INT-EDR-PS-PD-E-SV. 5000K CCT.
N.	XSPS LED EXTERIOR SOFFIT LIGHT BY LSI LIGHTING. #XSPS-S-LED-HO-CW-120-GWT-DFL
$	SWITCH
$L	LIGHTED SWITCH
$M	MOTION SENSOR SWITCH

CEILING FINISH LEGEND:

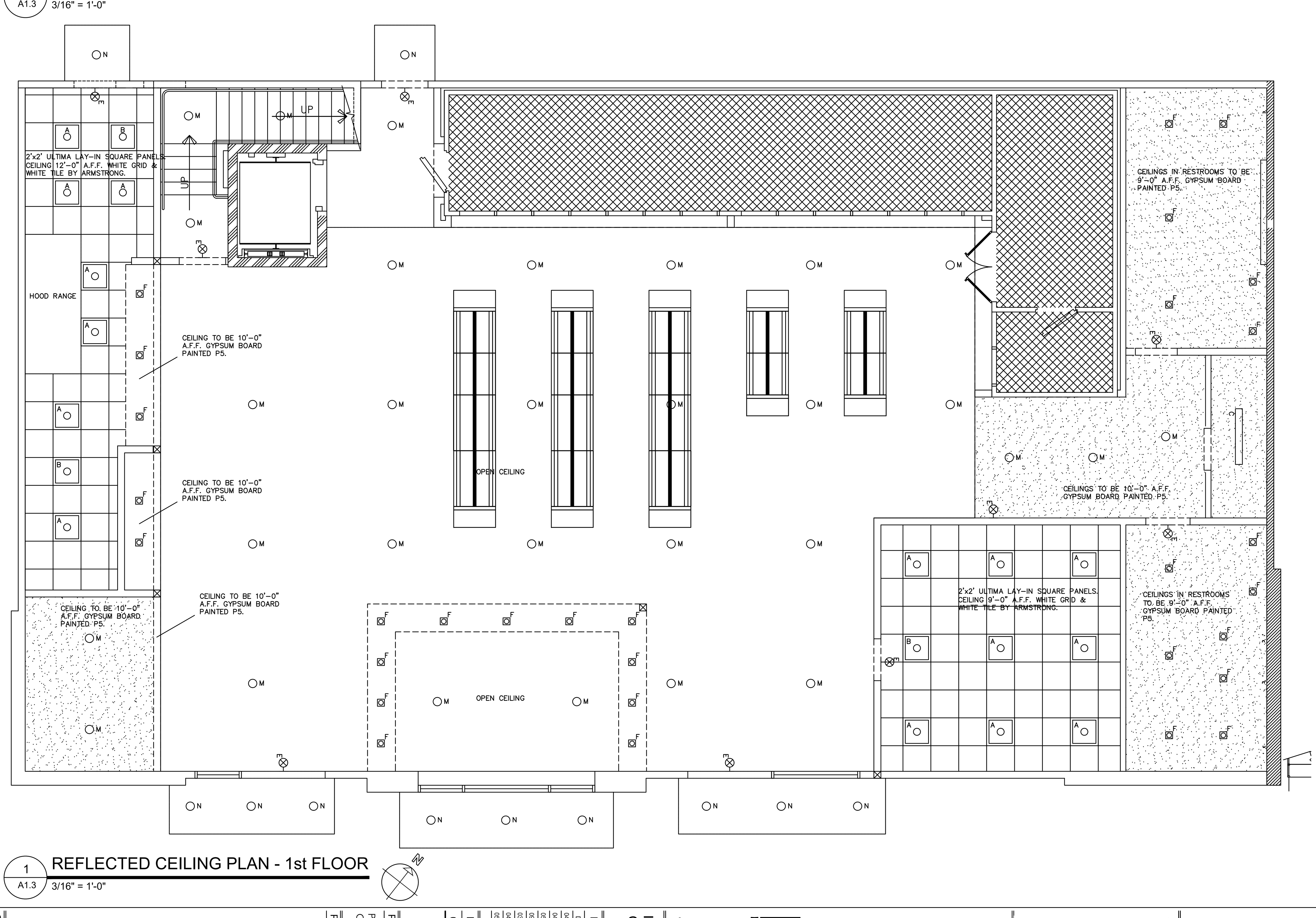
(blank symbol)	CEILING TO BE OPEN TO RAFTERS
(stippled symbol)	CEILING TO BE A GYPSUM BOARD SOFFIT OR DROP CEILING. REFERENCE PLANS FOR HEIGHTS AND FINISHES OF SOFFIT OR DROP CEILING.
(cross-hatched symbol)	WALK-IN COOLER & FREEZER CEILING PANELS TO BE PROVIDED BY WALK-IN COOLER MANUFACTURE. REFERENCE PLANS FOR HEIGHTS.
(grid symbol)	LAY-IN GRID CEILING WITH WHITE FISSURED LAY-IN PANELS. REFERENCE PLANS FOR SIZES, HEIGHTS, AND ORIENTATION. HEALTH DEPARTMENT APPROVED LAY-IN PANELS WHERE REQUIRED PER CODE.

LIGHTING NOTES:

1.	LIGHTING SHOWN FOR VISUAL CONCEPTS ONLY. FINAL DESIGN AND LIGHTING FIXTURES TO BE COORDINATED BETWEEN OWNER AND LIGHTING SUPPLIER. ALL LIGHTS TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR, UNLESS NOTED OTHERWISE. INSTALLATION TO COMPLY WITH APPLICABLE FEDERAL AND LOCAL CODES: FIRE SAFETY, ENERGY, AND ENVIRONMENTAL.
2.	HVAC BY LOCAL CONTRACTOR TO BE COORDINATED WITH THIS PLAN.
3.	ALL EXPOSED TRUSSES TO BE PAINTED PER INTERIOR DESIGN DOCUMENTS. EXPOSED HVAC DUCTS FINISH TO BE COORDINATED WITH INTERIOR DESIGN GROUP.
4.	REFERENCE INTERIORS FOR HEIGHTS OF HEADERS, SOFFITS, AND FURR-DOWNS.
5.	REFERENCE INTERIORS FOR FINISH KEY.
6.	REFER TO INTERIOR ELEVATIONS TO VERIFY LIGHTING PLACEMENT DOES NOT INTERFERE WITH INTERIOR GRAPHICS.



2 A1.3 REFLECTED CEILING PLAN - 2nd FLOOR
3/16" = 1'-0"



1 A1.3 REFLECTED CEILING PLAN - 1st FLOOR
3/16" = 1'-0"

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR.
ARCHITECT
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www.mrpdesign.com

ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

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05.31.23	REV. 5 CORRECTIONS

DRAWN BY:
CHK'D BY:

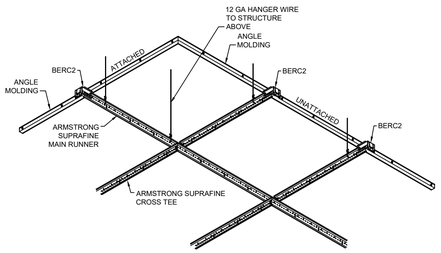
PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
REFLECTED CEILING PLAN

PROJECT NO: 21035

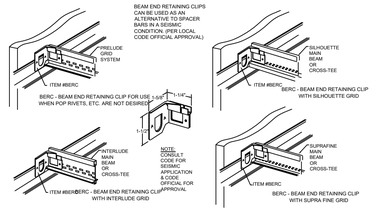
A1.3



1 A1.3b

METALWORKS OPEN CELL LAY-IN

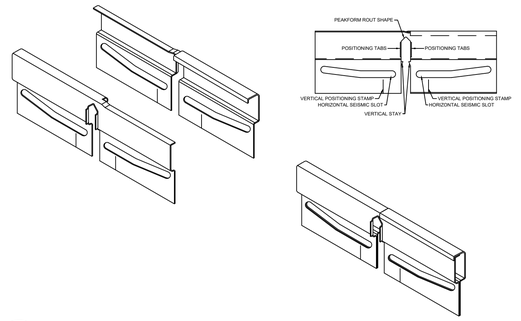
SCALE: 3/4" = 1'-0"



2 A1.3b

BEAM END RETAINING CLIP

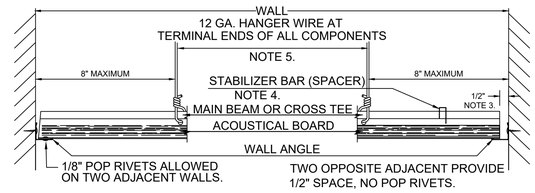
SCALE: 3" = 1'-0"



3 A1.3b

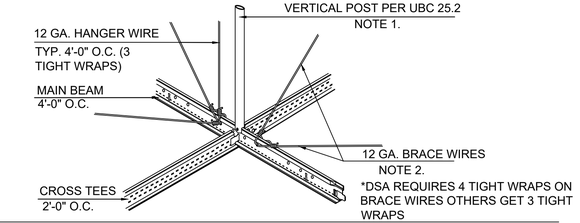
SEISMIC JOINT CLIP

SCALE: 6" = 1'-0"



PERIMETER NOTES

3. THE UNATTACHED PERIMETER SHALL HAVE A MINIMUM OF 1/2" CLEARANCE AT ENDS OF COMPONENTS.
4. CONTINUOUS SPACER BAR TO BE LOCKED TO COMPONENTS ON UNATTACHED WALL.
5. COMPONENT TERMINAL ENDS MUST BE SUPPORTED BY A 12 GA. HANGER WIRE ON ALL WALLS.



BRACING NOTES

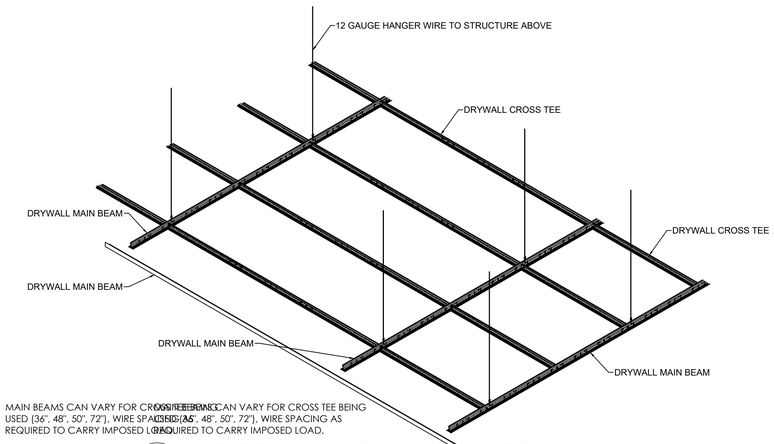
1. VERTICAL POSTS MAY NOT BE REQUIRED IN SOME CITIES AND NOT ENFORCED IN ALL SEISMIC ZONES.

2. BRACING WIRES TO BE ATTACHED A MAXIMUM OF 45° TO THE PLANE OF THE CEILING AND PARALLEL TO THE COMPONENTS AT THE BRACING POINT. BRACE WIRES TO BE TAUT AND TIED BOTH ENDS WITH THREE TIGHT WRAPS.

4 A1.3b

SEISMIC BRACING FOR UBC PERIMETER DETAIL

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



MAIN BEAMS CAN VARY FOR CROSS TEE BEING USED (36", 48", 50", 72"), WIRE SPACING AS REQUIRED TO CARRY IMPOSED LOAD.

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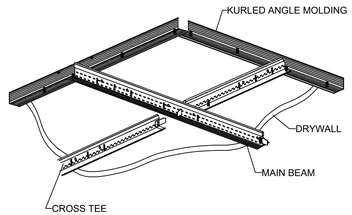
5 A1.3b

TYP. DRYWALL CEILING INSTALATION

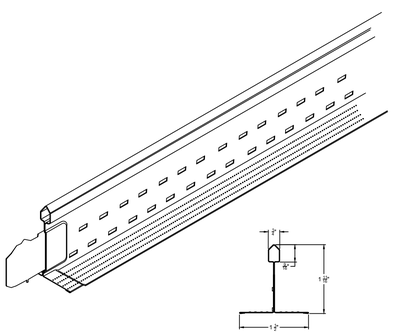
SCALE: N.T.S.



6 A1.3b

TYP. DRYWALL FRAMING INSTALATION

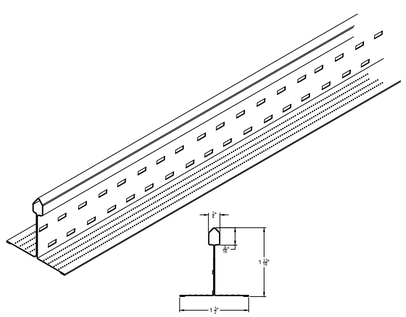
SCALE: N.T.S.



7 A1.3b

TYP. DRYWALL CROSS TEE

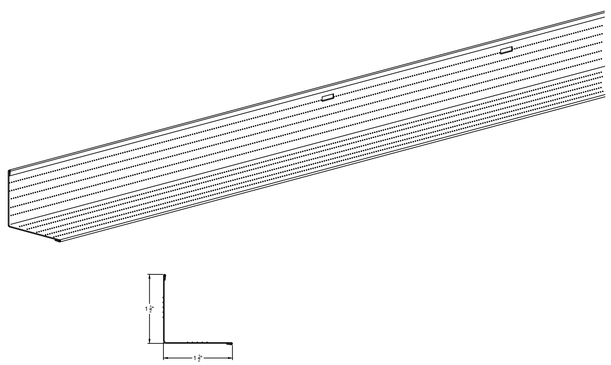
SCALE: N.T.S.



8 A1.3b

TYP. DRYWALL MAIN BEAM

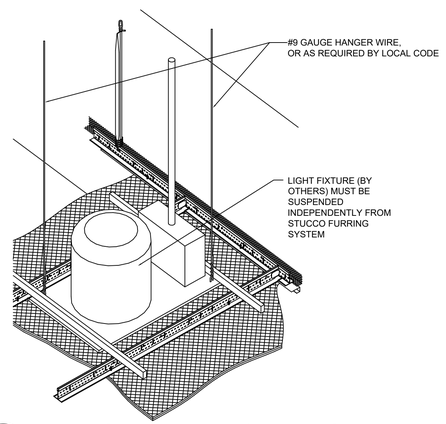
SCALE: N.T.S.



9 A1.3b

TYP. KURLED ANGLE MOLDING

SCALE: N.T.S.



10 A1.3b

TYP. LIGHT FIXTURE INSTALLATION

SCALE: N.T.S.

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05.31.23	REV. 5 CORRECTIONS

DRAWN BY:

CHK'D BY:

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PROJECT TITLE:

C-STORE / RETAIL SPACE
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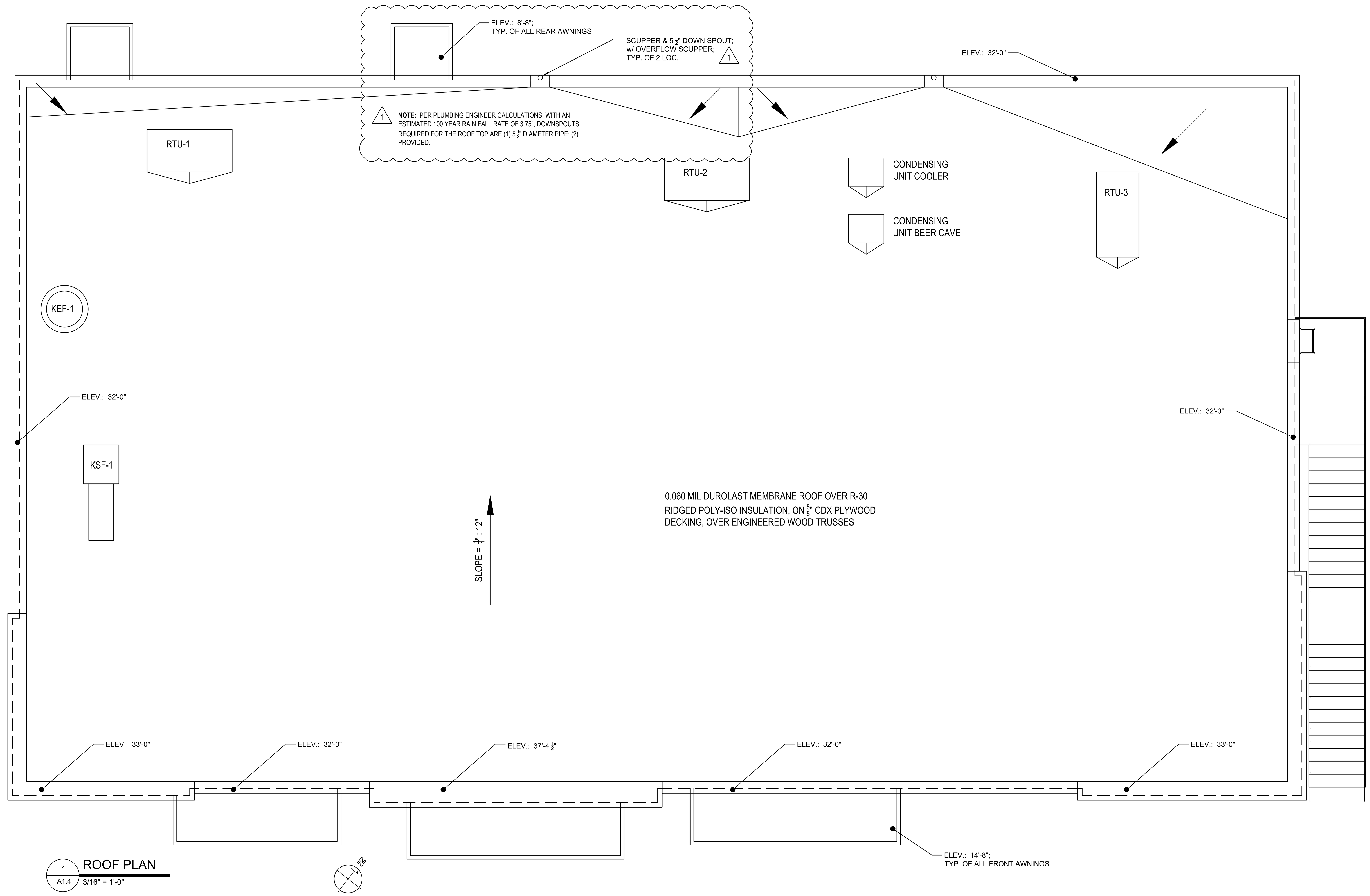
Doraville, GA 30340

SHEET TITLE:

SEISMIC SUSP3NDED CEILING DETAILS

PROJECT NO: 21035

A1.3b



1
A1.4
ROOF PLAN
3/16" = 1'-0"

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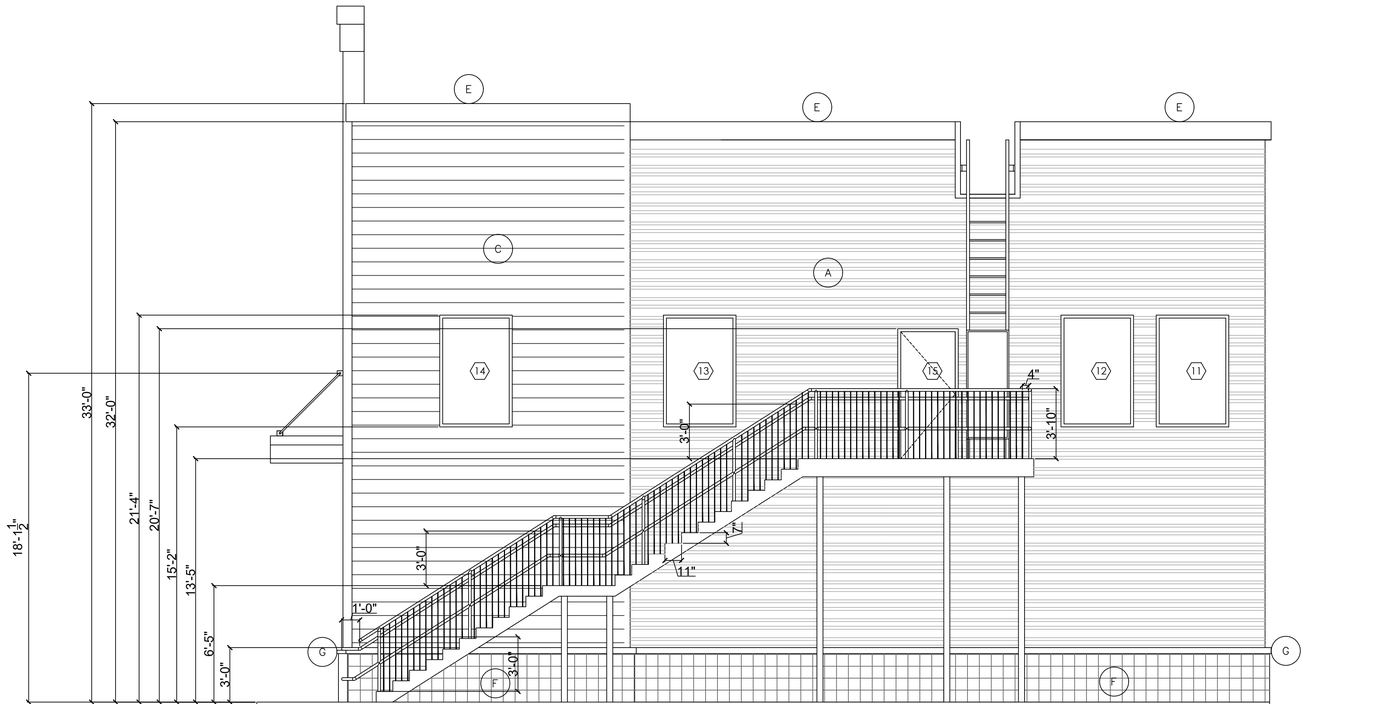
SHEET TITLE:

ROOF PLAN

PROJECT NO: 21035

A1.4

1 A2.0 ELEVATION - FRONT
1/4" = 1'-0"



2 A2.0 ELEVATION - EGRESS 2nd FLOOR △2
1/4" = 1'-0"

EXTERIOR WALL FINISHS LEGEND:

A.	METLSPAN, 7.2 INSUL-RIB WALL PANEL, PEWTER OR E.Q.
B.	JAMES HARDIE, HARDIE PANEL VERTICAL SIDING, SMOOTH, KHAKI BROWN OR E.Q.
C.	JAMES HARDIE, HARDIE PLANK LAP SIDING, SMOOTH, AGED PEWTER OR E.Q.
D.	MOZ DESIGN TERRACEWALL PANEL SYSTEM, CLASSIC METAL, PEWTER FOG OR E.Q.
E.	METAL-ERA, CORNICE, SLATE GRAY, FIELD MEASURE AND VERIFY SIZING, OR E.Q.
F.	HACKETT STONE VENEER, HK:RSV5a, BLACK/GRAY OR E.Q.
G.	HACKETT STONE VENNER, 24" WINDOW SILL / WATER TABLE, BLACK/GRAY OR E.Q.
H.	EIFS WALL SYSTEM, STUCCO FINISH MEDIUM SAND, SHERWIN WILLIAMS SW 9560 OR E.Q.

ARCHITECT OF RECORD:

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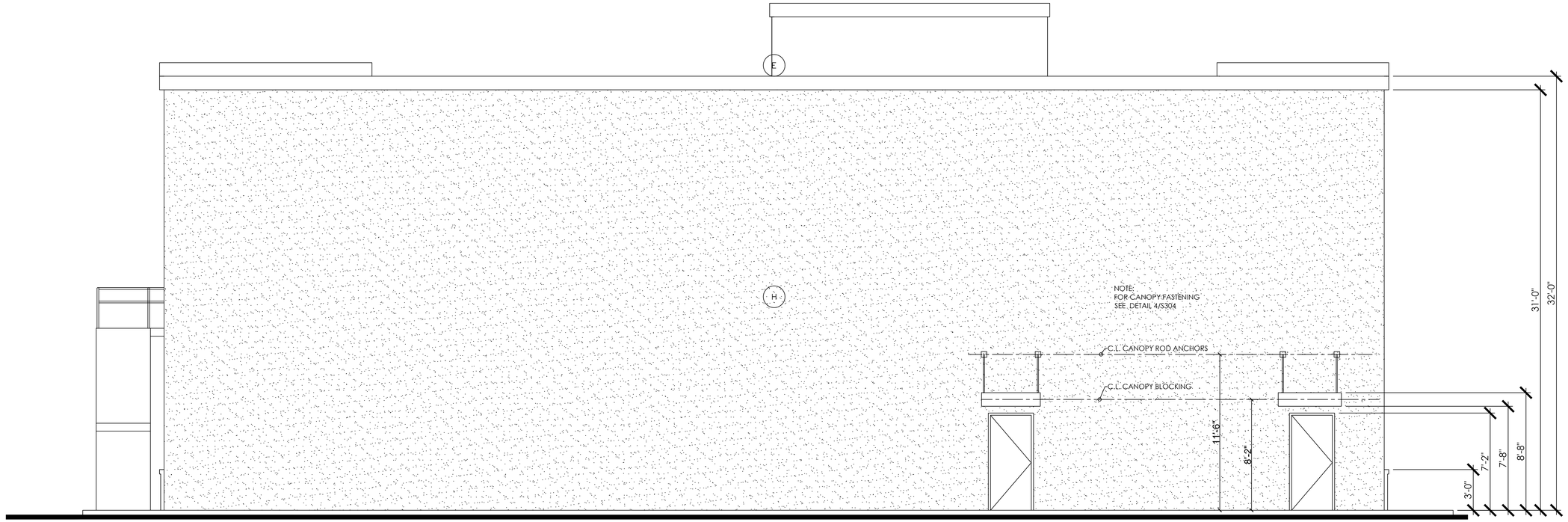
Doraville, GA 30340

SHEET TITLE:

EXTERIOR ELEVATIONS

PROJECT NO: 21035

A2.0



1 A2.0 ELEVATION - BACK
1/4" = 1'-0"

EXTERIOR WALL FINISHS LEGEND:

A.	METLSPAN, 7.2 INSUL-RIB WALL PANEL, PEWTER OR E.Q.
B.	JAMES HARDIE, HARDIE PANEL VERTICAL SIDING, SMOOTH, KHAKI BROWN OR E.Q.
C.	JAMES HARDIE, HARDIE PLANK LAP SIDING, SMOOTH, AGED PEWTER OR E.Q.
D.	MOZ DESIGN TERRACEWALL PANEL SYSTEM, CLASSIC METAL, PEWTER FOG OR E.Q.
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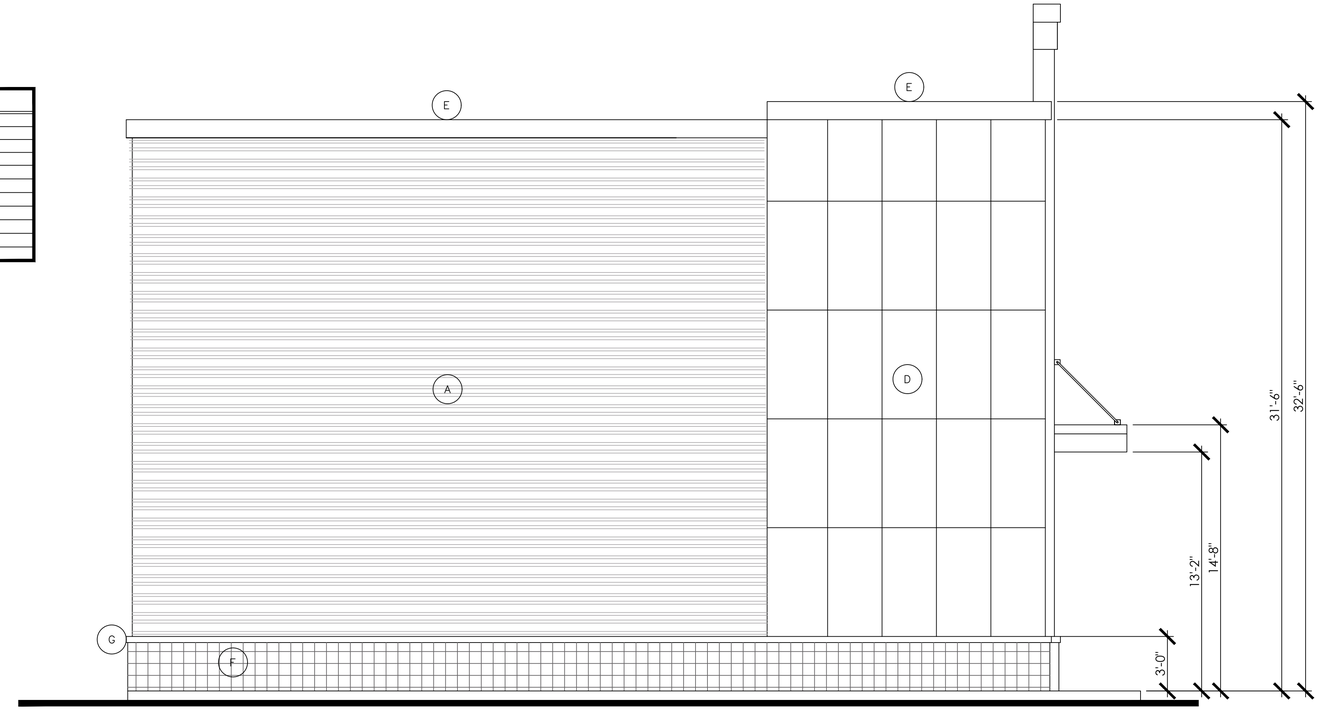

2 A2.0 ELEVATION - EGRESS 2nd FLOOR
1/4" = 1'-0"

ARCHITECT OF RECORD:

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CERTIFICATE NO.
REGISTERED ARCHITECT

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SHEET TITLE:

EXTERIOR ELEVATIONS

PROJECT NO: 21035

A2.1

2 A4.0 CROSS SECTION
1/4" = 1'-0"

SEE SHEET A1.1, DETAIL 2; FOR DETAILED SECTION THRU BUILDING.

1 A4.0 CROSS SECTION
1/4" = 1'-0"

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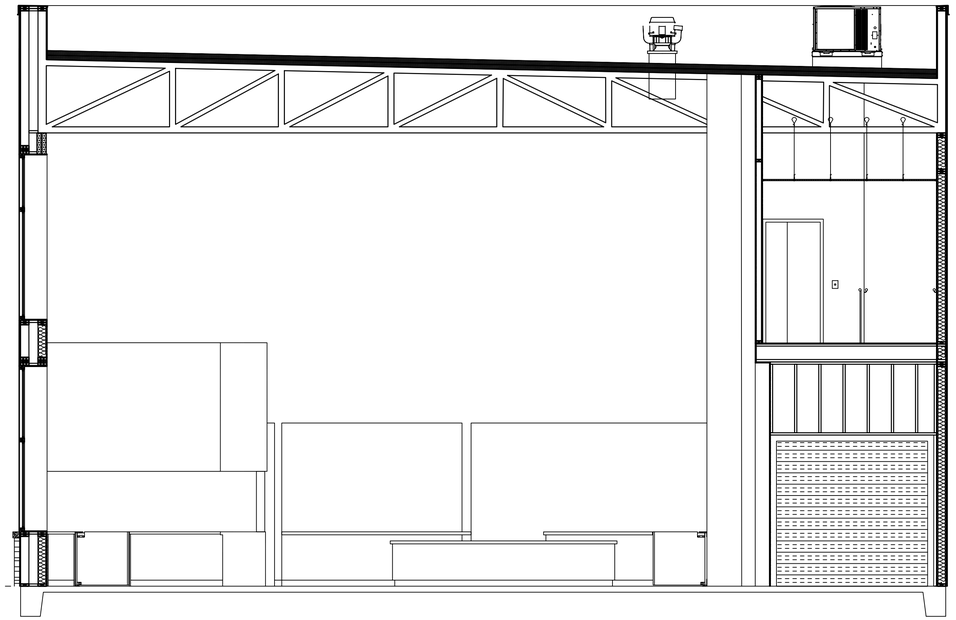
SHEET TITLE:

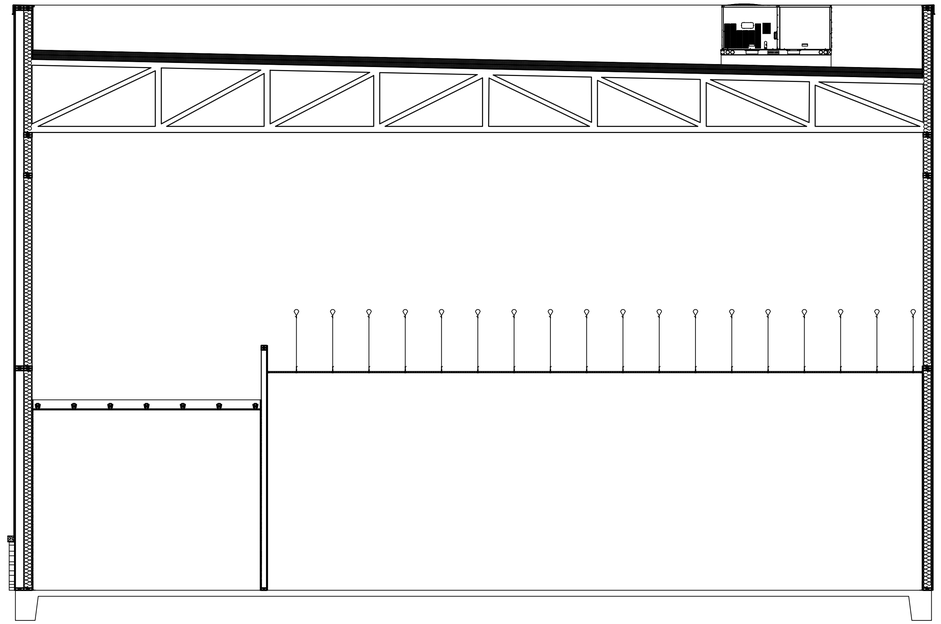
CROSS SECTIONS

PROJECT NO: 21035

A4.0

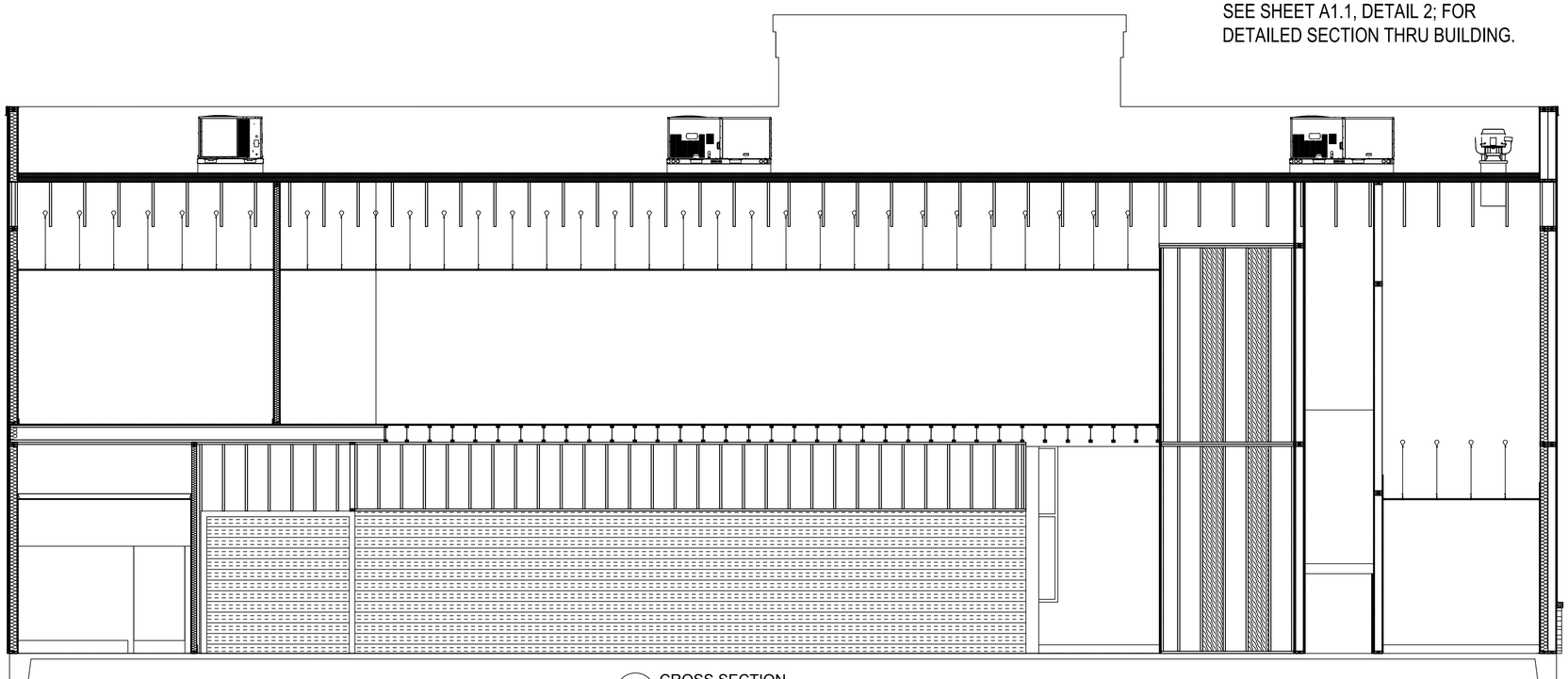


3 A4.1 CROSS SECTION
1/4" = 1'-0"



2 A4.1 CROSS SECTION
1/4" = 1'-0"

SEE SHEET A1.1, DETAIL 2; FOR DETAILED SECTION THRU BUILDING.



1 A4.1 CROSS SECTION
1/4" = 1'-0"

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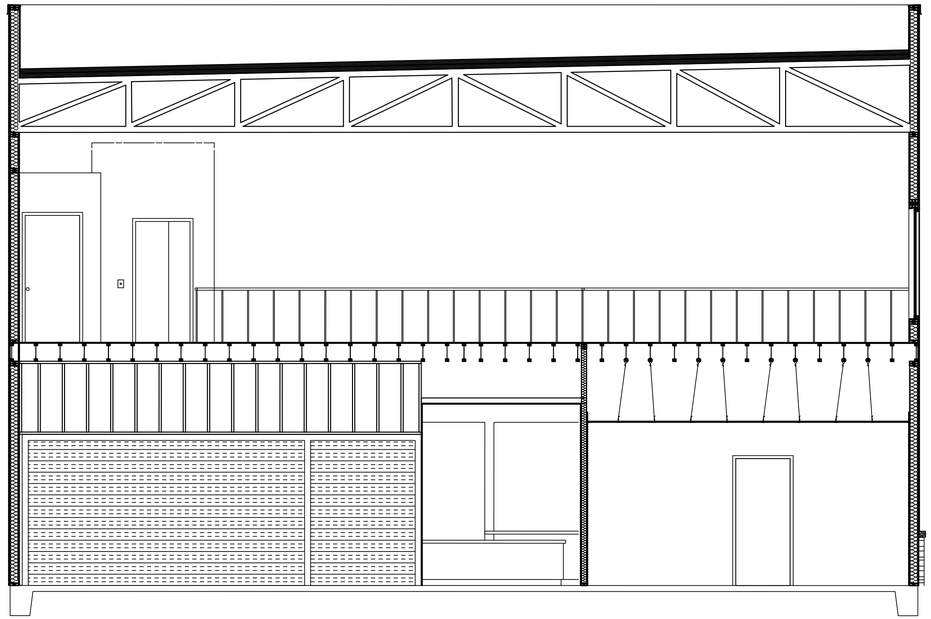
A4.1



1 A4.2 CROSS SECTION
1/4" = 1'-0"

SEE SHEET A1.1, DETAIL 2; FOR DETAILED SECTION THRU BUILDING.

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STATE OF GEORGIA
THOMAS E. MORGAN JR.
CERTIFICATE NO. 027
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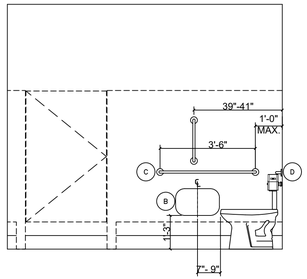
Doraville, GA 30340

SHEET TITLE:

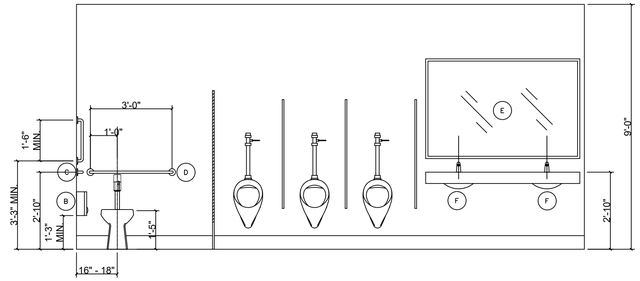
CROSS SECTIONS

PROJECT NO: 21035

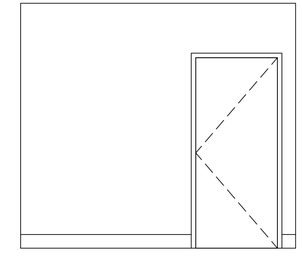
A4.2



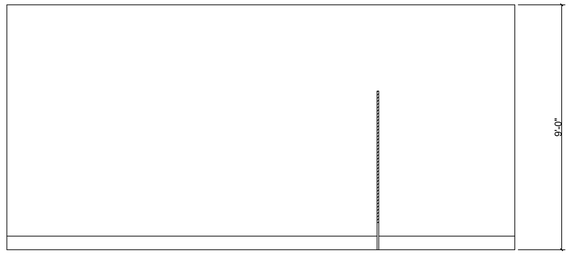
A A5.0 RESTROOM ELEVATION
3/8" = 1'-0" RM# 106 MEN'S LAVATORY



B A5.0 RESTROOM ELEVATION
1/2" = 1'-0" RM# 106 MEN'S LAVATORY



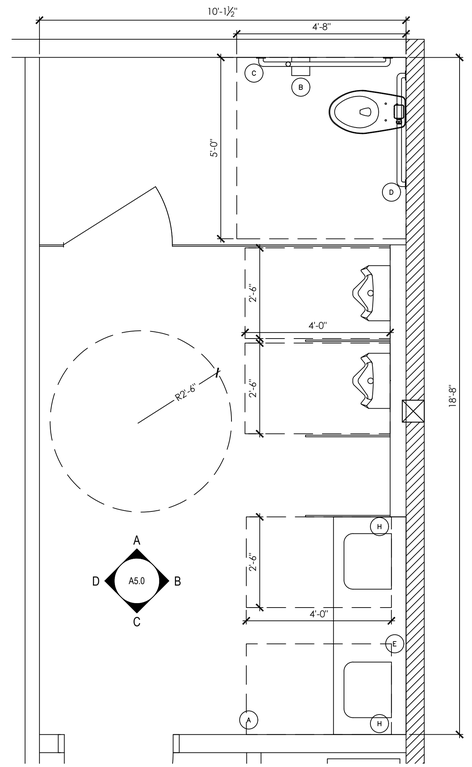
C A5.0 RESTROOM ELEVATION
1/2" = 1'-0" RM# 106 MEN'S LAVATORY



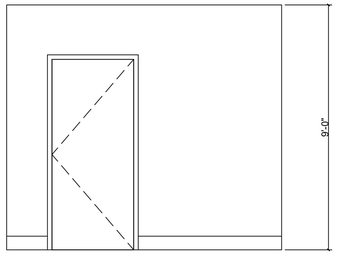
D A5.0 RESTROOM ELEVATION
1/2" = 1'-0" RM# 106 MEN'S LAVATORY

RESTROOM ACCESSORIES SCHEDULE

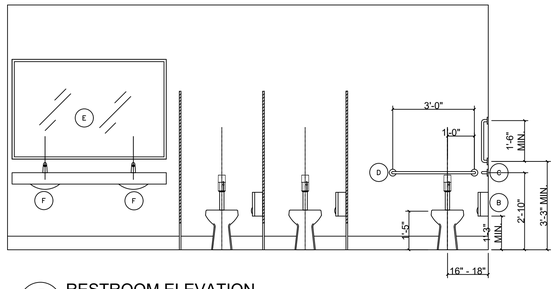
A	2	PAPER TOWEL DISPENSER AND TRASH	GEORGIA PACIFIC 59466 DISPENSER 59491 TRASH		STAINLESS STEEL SEMI-RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE 12 GALLONS
B	2	TOILET PAPER DISPENSER: SURFACE MOUNTED	BOBRICK B-2888		STAINLESS STEEL
C	2	42" SIDE GRAB BAR	BOBRICK B-5806.99 x 42	PEENED	STAINLESS STEEL, SATIN, FURNISHED COMPLETE W/ MOUNTING KIT
D	2	36" REAR GRAB BAR	BOBRICK B-5806.99 x 36	PEENED	STAINLESS STEEL, SATIN, FURNISHED COMPLETE W/ MOUNTING KIT
E	2	MIRROR	BOBRICK B-165 1836 CHANNEL FRAME		STAINLESS STEEL WITH BRIGHT-POLISHED FINISH. MITERED CORNERS, VANDAL RESISTANT
F	2	PIPE BOOTS, PIPE PROTECTION KIT	TRUEBRO 82193		PROTECT ALL EXPOSED PIPES
G	1	SANITARY NAPKIN DISPOSAL	BOBRICK B-270		MOUNT IN WOMEN'S AT 30" AFF TO TOP
H	2	SOAP DISPENSER	BOBRICK B-4112 (OPTIONAL)		



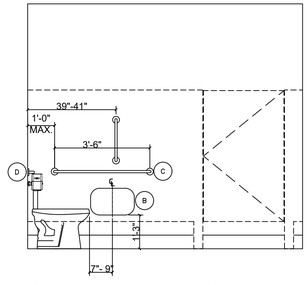
1 A5.0 ENLARGED RESTROOM
1/2" = 1'-0" RM# 106 MEN'S LAVATORY



E A5.0 RESTROOM ELEVATION
1/2" = 1'-0" RM# 108 WOMEN'S LAVATORY



F A5.0 RESTROOM ELEVATION
1/2" = 1'-0" RM# 108 WOMEN'S LAVATORY

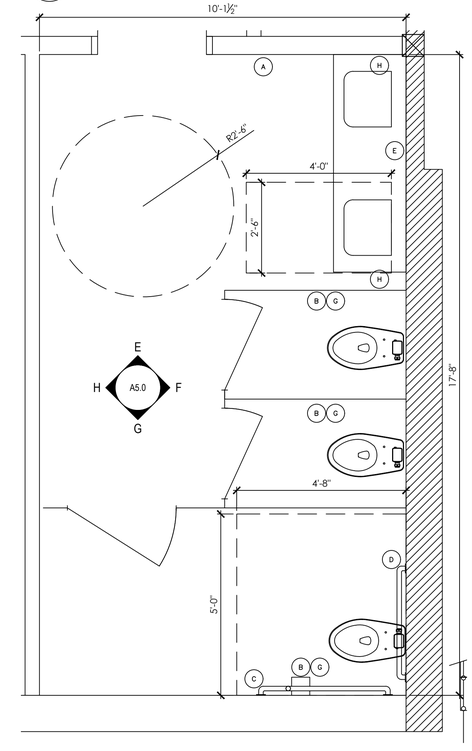


G A5.0 RESTROOM ELEVATION
1/2" = 1'-0" RM# 108 WOMEN'S LAVATORY

H A5.0 RESTROOM ELEVATION
1/2" = 1'-0" RM# 108 WOMEN'S LAVATORY

ACCESSIBILITY NOTES: ADA/ANSI A117.1

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
2. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15" ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
3. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS, AND PLACED 80" ABOVE THE FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER.
4. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (i.e. LEVER-OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED NO HIGHER THAN 48" ABOVE THE FLOOR.
5. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25" AND 0.5" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2". CHANGES IN LEVEL GREATER THAN 0.5" REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5" MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5" WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5" IN HEIGHT.
6. GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1.25"-1.50" IN DIAMETER WITH 1.5" CLEAR SPACE BETWEEN THE BAR AND THE WALL.
7. ACCESSIBLE WATER CLOSETS SHALL BE 17"-19" FROM FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36" LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42" MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33"-36" ABOVE THE FLOOR.
8. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17" ABOVE THE FLOOR.
9. ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34" ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 29" ABOVE THE FLOOR TO THE BOTTOM OF THE APRON.
10. ACCESSIBLE SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34" ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP UNDERNEATH SINK. THE SINK DEPTH SHALL BE 6.5" MAXIMUM.
11. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER
12. ACCESSIBLE LAVATORIES AND SINKS. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (i.e. LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY CONTROLLED.)
13. WHERE MIRRORS ARE PROVIDED IN RESTROOM, AT LEAST ONE SHALL BE PROVIDED WITH THE BOTTOM EDGE OF THE REFLECTIVE SURFACE NO HIGHER THAN 40" ABOVE THE FLOOR.



2 A5.0 ENLARGED RESTROOM
1/2" = 1'-0" RM# 108 WOMEN'S LAVATORY

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
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ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
04.28.22	RELEASED FOR CONSTRUCTION
05.24.22	REV. 1 PER COMMENTS
09.08.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS

DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

ENLARGED RESTROOM PLANS & ELEVATIONS

PROJECT NO: 21035

A5.0

Schindler 3100 MRL Traction Elevator
General Purpose

Standard Speeds: 100 (0.5 m/s)
Openings: 3 front, 3 rear
Travel: Up to 48' (14.6 m)

Machine room-less traction elevator with frequency-controlled drive

Capacity 2100 – 3500 lbs, 14 – 23 passengers

Capacity	Passengers max.	Speed	Number of stops max.	Available entrances max.	Car (Inside) A in (mm)	Car (Inside) B in (mm)	Car (Inside) C in (mm)	Door type	Door D in (mm)	Door E in (mm)	Shaft (Inside) F (600x5) ft (mm)	Shaft (Inside) G ft (mm)	Shaft (Inside) H (600) ft (mm)	Shaft (Inside) I (600) ft (mm)	Travel height max.
lbs (kg)		fpm (m/s)													J (600) ft (m) / FPM (m/s)
2100 (950)	14	100 (.5)	3	3 Front	5'-9 1/16" (1761)	4'-4 7/8" (1343)	7'-9" (2366)	2SSO	3'-0" (915)	7' (2134)	7'-4" (2235)	5'-9" (1755)	5'-0" (1524)	12'-7" (3835)	48' (14.6) / 100 (.5)
			3/3	3 Front 3 Rear							7'-4" (2235)	6'-5 1/16" (1972)	5'-0" (1524)	12'-7" (3835)	
2500 (1135)	17	100 (.5)	3	3 Front	6'-9 1/16" (2066)	4'-4 7/8" (1343)	7'-9" (2366)	2SSO/ SSCO	3'-6" (1067)	7' (2134)	8'-4" (2540)	5'-9" (1755)	5'-0" (1524)	12'-7" (3835)	48' (14.6) / 100 (.5)
			3/3	3 Front 3 Rear							8'-4" (2540)	6'-5 1/16" (1972)	5'-0" (1524)	12'-7" (3835)	
3000 (1360)	20	100 (.5)	3	3 Front	6'-9 1/16" (2066)	4'-10 7/8" (1495)	7'-9" (2366)	2SSO/ SSCO	3'-6" (1067)	7' (2134)	8'-4" (2540)	6'-3" (1905)	5'-0" (1524)	12'-7" (3835)	48' (14.6) / 100 (.5)
			3/3	3 Front 3 Rear							8'-4" (2540)	6'-11 1/8" (2124)	5'-0" (1524)	12'-7" (3835)	
3500 (1590)	23	100 (.5)	3	3 Front	6'-9 1/16" (2066)	5'-6 7/8" (1699)	7'-9" (2366)	2SSO/ SSCO	3'-6" (1067)	7' (2134)	8'-4" (2540)	6'-11 1/16" (2110)	5'-0" (1524)	12'-7" (3835)	48' (14.6) / 100 (.5)
			3/3	3 Front 3 Rear							8'-4" (2540)	7'-7 1/16" (2328)	5'-0" (1524)	12'-7" (3835)	

A Inside cab width
B Inside cab depth
C Inside cab height to underside of roof. (Inside cab height to finished ceiling is 7'-5 1/16" (2265).)

2SSO 2-speed side opening ⇅
SSCO Single speed center opening

D Door Width
E Door Height

F Shaft width
G Shaft depth
H Pit depth
I Overhead

Notes:
(i) 2SSO doors available with right or left opening.
(ii) Duplex operation available.
(iii) Areas in seismic zone 2 or greater may require up to 3 ½" more hoistway width. Please contact your Schindler Sales Representative for details and options.
(iv) Clear overhead is defined from the lowest point below any obstruction such as: hoist beam(s), building beams, or roof structure to floor of top landing.
(v) Where permitted by code, no control closet is required. A 3-phase disconnect must be located in both the hoistway overhead and a location in the building outside of the hoistway. 110v disconnect should be located outside of hoistway. Disconnects are not required to be an elevator-dedicated space. Please confirm with local requirements.
(vi) 24" max. floor to floor travel.
(vii) Schindler recommends 8'-4" (2500 – 3500 lbs) and 7'-6" (2100 lbs), providing additional hoistway tolerances.
(viii) Please contact your Schindler Sales Representative for options less than 5'-0.
(ix) Please contact your Schindler Sales Representative for additional hatch options such as diagonal entrances.
(x) All dimensions are for information only and cannot be used for construction purposes without Schindler confirmation.

LOAD TABLES

IMPACT LOADS

VERTICAL LOADS AT PIT (BUFFER IMPACT)		VERTICAL LOADS AT PIT UNDER GUIDE RAILS (INCLUDING IMPACT LOAD DUE TO SAFETIES APPLICATION, GOVERNOR LOAD AND EQUIPMENT ON RAILS)			
F9	F10	F8	F16	F17	F18
6305 LBF (28.0 KN)	8319 LBF (37.0 KN)	8983 LBF (40.0 KN)	11864 LBF (52.8 KN)	2833 LBF (12.6 KN)	2833 LBF (12.6 KN)

CAR RAIL LOADS

NON-SEISMIC		SEISMIC	
F	P	F	P
161 LBF (715 N)	97 LBF (432 N)	544 LBF (2416 N)	286 LBF (1259 N)

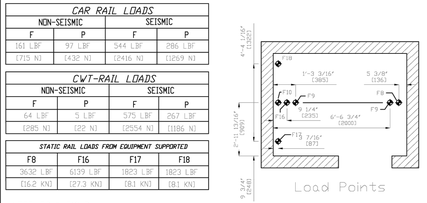
CWT-RAIL LOADS

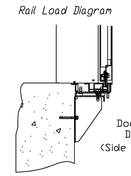
NON-SEISMIC		SEISMIC	
F	P	F	P
64 LBF (285 N)	5 LBF (22 N)	575 LBF (2554 N)	267 LBF (1186 N)

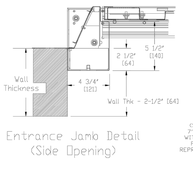
STATIC RAIL LOADS FROM EQUIPMENT SUPPORTED

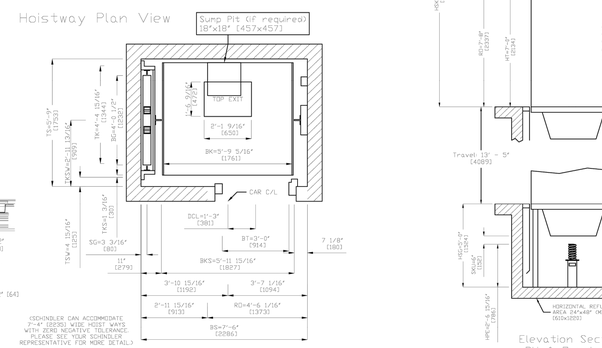
F8	F16	F17	F18
3652 LBF (16.2 KN)	6129 LBF (27.3 KN)	1823 LBF (8.1 KN)	1823 LBF (8.1 KN)

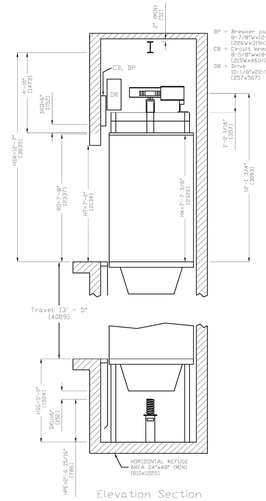
NOTE: F9 & F10 Do not occur simultaneously with F8 & F16











ACRONYM	DEFINITION	ACRONYM	DEFINITION
BGS	DISTANCE BETWEEN CWT GUIDE RAILS	RO	ROUGH OPENING
BK	CAR WIDTH (INSIDE)	SG	C/L CWT RAIL
BKS	DISTANCE BETWEEN CAR GUIDE RAILS	SKD	TOP RUNBY
BS	HOISTWAY WIDTH	SKU	BOTTOM RUNBY
BT	ENTRANCE OPENING WIDTH (HOISTWAY)	TCRR	TOP OF CAR RAIL
DCL	DOOR C/L	TCWR	TOP OF CWT RAIL
HK	CAB HGT TO UNDERSIDE OF CANOPY	TK	CAR DEPTH (INSIDE)
HSG	PIT DEPTH	TKS	RUNNING CLEARANCE
HSK	OVERHEAD HEIGHT	TKSW	FRONT H/W WALL TO C/L RAILS
HT	ENTRANCE OPENING HEIGHT	TS	HOISTWAY DEPTH
RHD	RAIL HEAD DEPTH	TSW	ENTRANCE SILL DEPTH

PURCHASER NOTES: THE FOLLOWING NOTES SHOULD BE CONSIDERED BY THE PURCHASER BEFORE APPROVING THIS DRAWING
WHEN THE APPLICABLE LOCAL CODES INCLUDE OTHER REQUIREMENTS OR CONFLICT WITH THE REFERENCED CODES BELOW, THE LOCAL CODES SHALL PREVAIL.

1. Clear, plumb, hoistway with variations not to exceed +25mm (+1"). Hoistway enclosure to be fire rated per national code requirements and applicable building codes (rule 2.1.1).
2. Power for construction adjacent to hoistways and machine/control rooms (110/220 volt, single phase, for welders and hoists) and sufficient 3-phase power to run elevator(s) at the same time.
3. 75° bevel guards on all projections, recesses or setbacks over 100mm (4").
4. Provide venting of the hoistway per national code requirements and applicable building codes (rule 2.1.4).
5. Clear, flat, vertical or horizontal surfaces for mounting rail brackets at each floor, in overhead, and intermediate levels (if required).
6. For masonry block hoistway construction, Schindler will provide rail bracket inserts for installation by others.
7. For non-masonry hoistway construction with floor heights exceeding 4.5m (15ft), structural support at 2.4m (8ft) to 4.5m (15ft) above finished floor level for entrance strut angle attachment.
8. Grouting around entrance frames and finished floor and grout to sill-line after installation of entrance.
9. Construction barricades (per OSHA requirements) either outside of elevator hoistway(s) or between elevators inside of hoistway(s) as required.
10. Dry pit reinforced to sustain vertical forces from rails and impact loads on buffers (rule 2.2.2). Car buffer impact loads as calculated (rule 8.2.3).
11. Adequate sealing and waterproofing of pit. Effective prevention of pit exposure to storm water or ground water.
12. Sump pit, if required, to be located in rear center of pit floor.
13. GFCI convenience outlet and light fixture with guard in pit (National Electrical Code).
14. Pit ladder for each elevator in compliance with rule 2.2.4.2.
15. GFCI convenience outlet and telephone outlet located in machine/control room.
16. Provide, preferably at the top landing, a lockable, fused disconnect switch or circuit breaker suitable for 3-phase power for the elevator control and a separate lockable, fused disconnect switch for car lighting circuit for each elevator.
17. Building corridors shall be lighted so that the illumination level at the landing sills, when an elevator is in service, shall not be less than 100 LUX (10 FC). (Rule: 2.11.10.2)
18. For areas in seismic zone 2 or greater, provide additional 2" (50 mm) TO hoistway width.
19. Hoist beam(s) required. Contact local Schindler office for sizing and location.
20. Provide suitable feeder and branch wiring circuits from the building service to the controller, including main line switch, for signal systems, power operated doors, car lighting and convenience outlets.
21. A temporary work platform is required for installation of the elevator.
22. If applicable, smoke and/or heat detectors with signals to elevator controller(s).
23. For jurisdictions following ASME A17.1 code prior to 2009, please add 1 additional inch of overhead at 150 FPM.

3100 TRACTION ELEVATOR PLANS AND DETAILS

Schindler

SPECIFICATIONS:
CAPACITY: 2100 lbs (950 kg)
RATED SPEED: 100 fpm (0.5 mps)
TRAVEL: 13' - 5" (4.089 m)
BUILDING:
LOCATION:
OWNER:
ARCHITECT: ENGINEER:
DRAWN BY: SchindlerDraw 2 DATE: Jun 17, 2022
DRAWING NO:

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR. ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STROUD AND COMPANY

MRP DESIGN GROUP
3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
04.28.22	RELEASED FOR CONSTRUCTION
05.24.22	REV. 1 PER COMMENTS
09.08.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS

DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

ELEVATOR PLANS & DETAILS

PROJECT NO: 21035

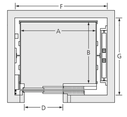
A6.0

Schindler 3100 MRL Traction Elevator
General Purpose

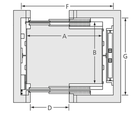
Standard Speeds: 100 (0.5 m/s)
Openings: 3 front, 3 rear
Travel: Up to 48' (14.6 m)

Hatch plans

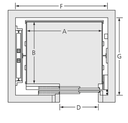
Front opening two-speed left opening (2SSO)



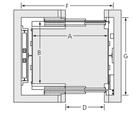
Front/rear opening ∞ two-speed left opening (2SSO)



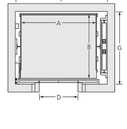
Front opening two-speed right opening (2SSO)



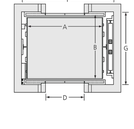
Front/rear opening ∞ two-speed right opening (2SSO)



Front opening single-speed center opening (SSCO)

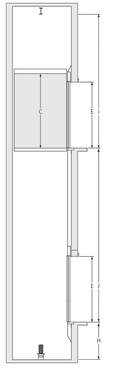


Front/rear opening single-speed center opening (SSCO)

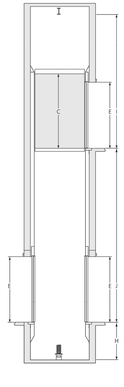


Hoistways

Front opening



Front/rear opening



General requirements

Requirements for installation vary by type of equipment selected. These general requirements assist you in preparing your building for the installation of Schindler elevators. All designs, clearances, construction, workmanship and materials, unless specifically excepted, shall be in accordance with the requirements of the latest published ASME A17.1 Code for electric traction elevators plus applicable building code and local codes. State or local requirements must be used if more stringent.

Items to be provided — A complete installation includes the following items not included in the elevator contract:

1. Clear, plumb hoistway, with variations on a minimum dimension hoistway not to exceed –0" and +1" (25.4 mm) per side at any point. Tolerance may increase to variations not to exceed –1" (–25.4 mm) and +1" (25.4 mm) per side at any point when an additional 2" (50.8 mm) is provided on the hoistway width dimension.
2. Two-hour fire resistance of hoistway walls or rating to meet applicable local codes. 75° bevel guards on all projections, recesses or setbacks over 4" (102 mm) except on side used for loading or unloading. The overhead machinery space temperature at top of hoistway to be maintained between 41° F (5° C) and 104° F (40° C) and < 95% relative humidity, non-condensing.
3. Supports for rail brackets at pit, each floor and one or two locations above top floor in the overhead (application dependent). Divider beams between hoistways at each floor level and one or two locations above top floor in the overhead for guide rail bracket supports. Locate per layout. For masonry block hoistway construction, Schindler will provide rail bracket inserts for installation by others, located per the Schindler final layout drawings. Where inserts are not used, hollow masonry blocks are not acceptable for bracket fastening. Provide 125 mm (5") concrete belt around hoistway or other acceptable support at each floor, in overhead, and intermediate levels (if required). For max. rail bracket vertical spacing, contact your local sales representative.
4. Supply hoistway/lobby beam for elevator construction and service work. Beam to run across the width of the elevator shaft. Locate per layout. Hoist beam to be left in place after elevator installation.
5. A temporary work platform is required for installation. It is to be constructed at the top floor of each elevator. It must comply with applicable governing codes and regulations. The platform shall be securely fastened to the building structure. Erection, maintenance, and removal are by others. (Reference Schindler drawing TD440.)
6. Lighting, light switch and duplex receptacle (GFCI) for each elevator, in the center of hoistway pit and in the elevator overhead/machinery space, as indicated by Schindler. The pit light switch located adjacent to access door.
7. Recesses, supports, and patching, as required, to accommodate hall button boxes, signal fixtures, etc. (if required).
8. All barricades outside elevator hoistways or between elevators inside hoistways.
9. Dry pit reinforced to sustain normal vertical forces from rails and buffers.
10. Drains & sumps in elevator pits, where provided, shall comply with the plumbing code, and shall be provided with a positive means to prevent water, gases and odors from entering the hoistway. The cover must be secured and level with the pit floor and located to clear elevator equipment. (Cannot be connected directly to storm drain or sewer.)
11. Pit ladders shall be provided where required.

Inspection and test panel

12. A switch placed adjacent to the jamb-mounted inspection and test panel enclosure shall control lighting in front of the panel. Minimum lighting to be 200 lux (19 fc).
13. A lockable, 13 ½" x 15 ½" x 3 ½" (minimum), metal cabinet with group-1 key to house required electrical schematics and maintenance history documents, shall be wall mounted, adjacent to the disconnect switch, by others, at the top landing. The supplier, location, and mounting of the cabinet shall be coordinated with Schindler.
14. Provide, preferably on the same floor as the elevator inspection and test panel, a lockable panel with a fused disconnect switch or circuit breaker suitable for 3-phase power for the elevator control, and a fused disconnect switch or circuit breaker for car lighting for each elevator in a separate lockable panel adjacent to the 3-phase panel or within the 3 phase panel. The panel(s) must be accessible to qualified personnel only (NEC NFPA req. 620.51(C)) with a Group 2 key (ASME A17.1 req. 8.1.3). Alternative locations for the panel(s) can be considered, provided they are located in accessible areas without obstructions to qualified personnel in compliance with NEC NFPA req. 620.51(C). Locate and mark the panels and disconnects with appropriate signage, (NEC NFPA 70 req. 620-22 and 620-51, or CSA C22.1-02 sections 38-022 and 38-053). The disconnects or circuit breakers may also be located without panels in a Group 2 key-secured room identified and dedicated to elevator apparatus only, and in all cases must be capable of being locked in the open position with a lock that cannot be removed from the devices or panel(s). FOR DRIVE IN HOISTWAY CONFIGURATION ONLY: Electrical contractor to supply an additional lockable auxiliary non-fused disconnect in the hoistway at the location of the drive (motor controller), along with wiring from the main disconnect to the auxiliary disconnect (see also NEC NFPA 70 - 2008 req. 620.51(C)(3)). This disconnect must also be lockable in the open position with a secured lock that cannot be removed from the device.
15. For ALL power circuits:
    a. If a sprinkler head is located in the hoistway or other disconnect location, any disconnect served by that sprinkler head must be NEMA 3 compliant. Sprinklers shall be located at the top and bottom of the hoistway per NFPA 13-2010 requirement 8.15.5.6 (see also 8.15.5.3) and A.8.15.5.3).
    b. In U.S. jurisdictions ONLY, when a sprinkler head is located in the hoistway, the building shall provide shunt trip activation of a) JH, the main disconnect or b) the feed to the main disconnect, triggered by contacts of the fire recall initiating devices (as defined by NFPA). These devices, located in the hoistway or other disconnect location, shall provide independent disconnection of electrical power to both main and auxiliary power circuits prior to sprinkler activation (ASME A17.1-2007/CSA b44-07 rule 2.8.3.3. and/or local code).

Control spaces (When specified in lieu of an Inspection and Test Panel, a partial or full body entry space/room shall be provided.)

16. Enclosed and protected control space at top landing adjacent to the hoistway wall closest to the elevator hoist machine. Two-hour fire rating of control space walls or rating to meet applicable local codes.
17. Provide fire-rated, self-closing, self-locking door. Door must be capable of opening 180 degrees for access to control space.
18. 42" (1067 mm) minimum clear space is required in hallway in front of control space door and top hoistway entrance for service barriers. Additional hallway width may be required, subject to local building, fire and ADA codes.
19. The temperature in front of the control space must be maintained between 32° F (0° C) and 104° F (40° C) and less than 95% relative humidity, non-condensing, for proper operation of equipment.
20. Disconnects for each elevator must be provided per National Electrical Code (NFPA No. 70) and located inside the elevator control space.

Other wiring

21. Suitable copper feeder, ground and branch wiring circuits for signal system and power operated door. Feeder and branch wiring circuits for car light and fan.
22. Telephone outlet provided at the inspection and test panel or in control closet (where applicable).
23. All conduit and wire runs remote from either the control space or hoistways (if required).
24. Heat, smoke or products of combustion-sensing devices connected to elevator control space terminals when such devices are required. Sprinklers shall be located at the top and bottom of the hoistway per NFPA 13-2010 requirement 8.15.5.6 (see also 8.15.5.3 and A.8.15.5.3). Shunt trip circuit breaker shall also be installed when sprinklers are present in the hoist way.

Emergency provisions

25. Elevator Firefighter's and other emergency services, depending on height of the building or number of landings, per ASME A17.1 Rule 2.27.3 and local codes.
26. Elevator Firefighter's and other emergency services' wiring and interconnections to automatic sprinkler systems or heat and smoke-sensing devices furnished by others.
27. When emergency/standby power operation of elevators is required, the Electrical Contractor should coordinate with Schindler for operation requirements.
28. Provisions for earthquake protection, dictated by building code, are required in various sections of the country.

Entrances

29. Hoistway walls must have a fire rating per ASME A17.1 Rule 2.1.1.
30. Furnishing, installing and maintaining the required fire rating of elevator hoistway walls, including the control spaces and also the penetration of fire wall by elevator fixture boxes (if applicable), is not the responsibility of the elevator contractor.
31. The interface of the elevator wall with the hoistway entrance assembly shall be in strict compliance with the elevator contractor's requirements.
32. Entrance wall and finished floor are not to be constructed until after door frames and sills are in place.
    a. Where front walls are of reinforced concrete, the concrete openings must be minimum 16" (406 mm) wider (8" (203 mm) on each side) and 8" (203 mm) higher than the clear opening.
    b. Where drywall or sheet rock construction is used for front walls, it shall be of sufficient strength to maintain the doors in true lateral alignment. Drywall contractor to coordinate with the elevator contractor.
       Note: A support member must be provided for floor heights greater than 15'-0" (4572 mm) to support entrance header struts.
    c. Door frames are to be anchored to walls and properly grouted in place to maintain legal fire rating (masonry construction).
33. Filling and grouting around entrance by others.
34. Where openings occur, all walls and sill supports must be plumb.

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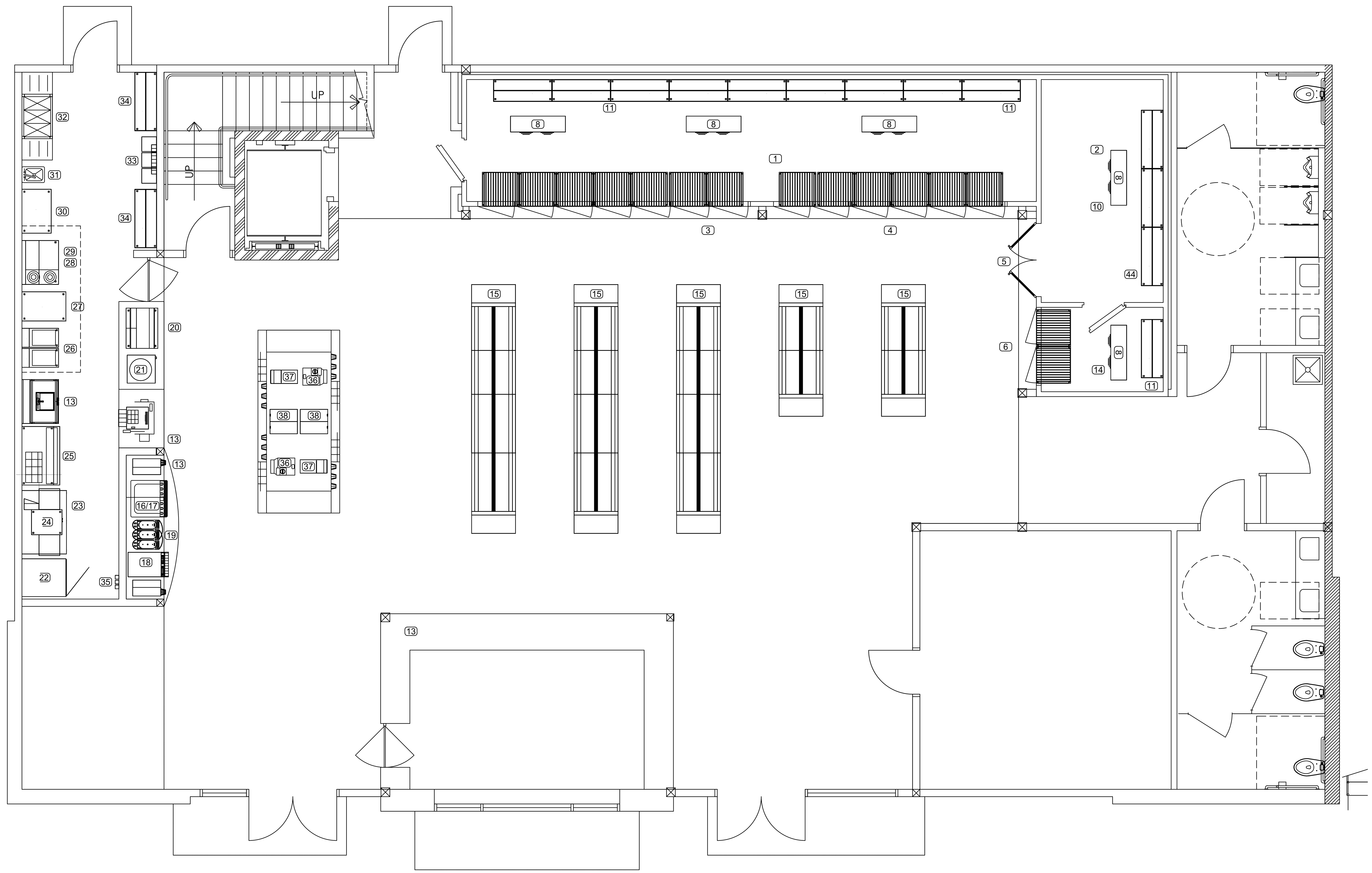

1 A7.0 EQUIPMENT PLAN
1/4" = 1'-0"

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

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www.mrpdesign.com

ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

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04.28.22	RELEASED FOR CONSTRUCTION
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03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS

DRAWN BY:
CHK'D BY:

PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
EQUIPMENT PLAN

PROJECT NO: 21035

A7.0

EQUIPMENT SCHEDULE

Item No	Quantity	Category	Mfr	Model
1	1	Walk In Combination Cooler	CTONKA	
2	1	Beer Cave Cooler	CTONKA	
3	6	Styleline 30" x 80" doors	CRD	
4	7	Styleline 30" x 80" doors	CRD	
5	2	Styleline 36" x 84" HDD Service doors	CRD	
6	2	Styleline 30" x 80" doors	CRD	
7	1	5 HP Condensing units	Russell	RFO500E4SEA
8	3	Evaporator Coils	Russell	RL6A130ADA
9	1	3.25 HP Condensing units	Russell	RFO3254SEA
10A	1	Center Mount Evap Coil	Russell	RE6L90DDA
10B	1	Wall Mount Evap Coil	Russell	RE6E89DDA
11	10	48x18 4 tier storage shelving units	MERIT	
44	1	BEER CAVE DISPLAY SHELVING	PFI	
13	1	Custom Metal Cabinets	ROYSTON	
14	1	Evaporator Coil	Russell	RLE6E90DDA
15	1	Shelving, Gondola	RPC	
16	1	Soda Ice & Beverage Dispenser	Lancer	FS-30
17	1	Nugget Ice Maker	Hoshizaki	F-801MAJ-C
18	1	Frozen Drink Machine, Carbonated	FBD	774 REMOTE (BT)
19	1	Frozen Drink Machine, Non-Carbonated, Bowl Type	Grindmaster-UNIC-Crathco	FROSTY 3
20	1	Display Merchandiser, Heated, For Multi-Product	Vendo	HFDHC0009
21	1	Display Merchandiser, Heated, For Multi-Product	Hatco	GRPWS-3618T
22	1	Reach-In Refrigerator	Turbo Air	M3R24-1-N
23	1	Reach-In Undercounter Freezer	Nor-Lake	NLUF60
24	1	Conveyor Oven, Electric	TurboChef	HHC1618 STD-48
25	1	Pizza Preparation Refrigerator	Nor-Lake	NLPT44
26	2	Gas Floor Fryer	Vulcan	1GR35M
	1	PORTABLE Fryer Filter	Vulcan	MF-1
27	1	Landing Table	Giles	LT
28	1	Range, 36", Griddle	Garland US Range	U36-G36R
29	1	Exhaust Hood	CAPTIVE	
30	1	Work Table, Stainless Steel Top	Advance Tabco	KMSLAG-243-X
31	1	Hand Sink	Advance Tabco	7-PS-23-EC-SP-1X
32	1	Three (3) Compartment Sink	Advance Tabco	FE-3-1812-24RL-X
	1	Pre-Rinse Faucet System	Advance Tabco	DTA-53-X
32	2	48" 2 Tier Wall Mounted Shelves	MERIT	
33	1	Bag in Box Syrup Tank Rack	Bevco	
34	2	48x18 4 tier storage shelving units	MERIT	
35	1	Water Filtration System, for Multiple Applications	Everpure	EV943710
36	2	FAST CUP Bean-to-Cup Coffee Brewers	BUNN	55400.01
37	2	4 Head Cappuccino	Curtis	PCGT4
38	2	2 head Cream dispenser	Cold Star	ND2R

1 / A7.1 EQUIPMENT SCHEDULE
N.T.S.

ARCHITECT OF RECORD:
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423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

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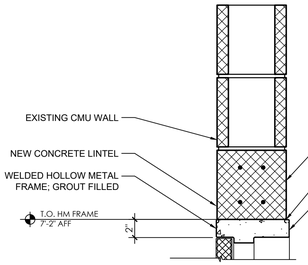
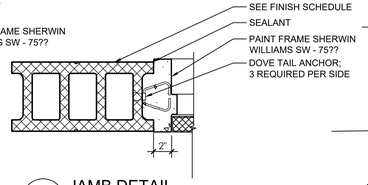


NOTE: PAINT ALL UNFINISHED EXPOSED STEEL SURFACES

H1 / A1.1 HEAD DETAIL 1/4" = 1'-0"



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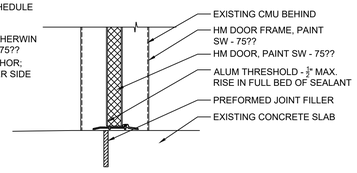
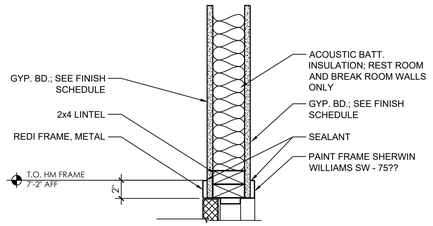
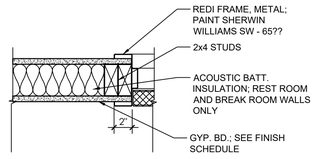


S1 / A1.1 SILL DETAIL 1/4" = 1'-0"



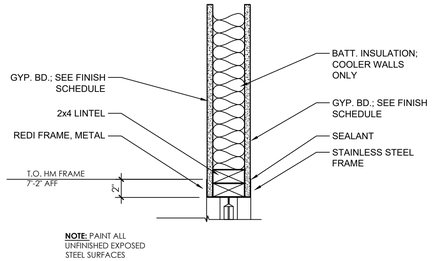
NOTE: PAINT ALL UNFINISHED EXPOSED STEEL SURFACES

H2 / A1.1 HEAD DETAIL 1/4" = 1'-0"



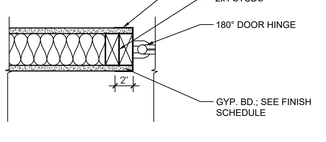
J2 / A1.1 JAMB DETAIL 1/4" = 1'-0"

S2 / A1.1 SILL DETAIL 1/4" = 1'-0"

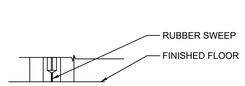


NOTE: PAINT ALL UNFINISHED EXPOSED STEEL SURFACES

H3 / A1.1 HEAD DETAIL 1/4" = 1'-0"



J3 / A1.1 JAMB DETAIL 1/4" = 1'-0"



S3 / A1.1 SILL DETAIL 1/4" = 1'-0"

GENERAL NOTES

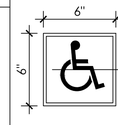
1. DOORS SHALL SWING INTO FULLY OPENED POSITION WHEN AN OPENING FORCE NOT TO EXCEED 8.5 POUNDS ON EXTERIOR DOORS AND 15 POUNDS ON FIRE DOORS IS APPLIED TO THE LATCH SIDE.
2. ALL DOORS TO BE PROVIDED WITH A SMOOTH, UNINTERRUPTED SURFACE AT THE BOTTOM 10" THAT ALLOWS THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITH CREATING A TRAP OR HAZARDOUS CONDITION.
3. SIGNAGE AT ENTRANCE DOORS SHALL HAVE ACCESSIBLE DOOR DECAL WITH A PICTOGRAM. ALL SIGNAGE TO COMPLY WITH ADA GUIDELINES
4. ALUM. FRAMING SYSTEM:
   - 4.1. 4 1/2" EXTRUDED ALUMINUM FRAMES
   - 4.2. CLEAR ANODIZED ALUMINUM
   - 4.3. 1" INSULATED, TEMPERED GLAZING
5. ALUM/GLASS DOORS: STYLE AND RAIL GLAZED DOORS WITH EXTRUDED ALUMINUM TUBULAR FRAMES
6. MANUFACTURER: "KAWNEER" OR EQUAL
7. PREFINISHED ALUMINUM COLOR: MILL FINISH ANODIZED
8. GLAZING:

U-VALUE: 0.29
SHGC: 0.41
PPG SOLARBAN 60, STARPHIRE CLEAR GLASS SYSTEM OR EQUAL.

HM = HOLLOW METAL
PREFIN = PREFINISHED
ALUM. = ALUMINUM
SS = STAINLESS STEEL
GALV = GALVANIZED, FACTORY PRIMED
PT= FIELD PAINT
SCW= SOLID CORE WOOD

HARDWARE SCHEDULE

SET 1. (ALUM/GLASS ENTRY DOOR)		
OFFSET PIVOTS	KAWNEER	MILL FINISH
CONCEALED ROD EXIT DEVICE	KAWNEER 1686	EXTERIOR CYLINDER TRIM, MILL FINISH
CLOSERS	NORTON 1601	MILL FINISH
THRESHOLD, OFFSET PIVOT	KAWNEER	MILL FINISH, ADA COMPLIANT
WEATHERSTRIPPING	THERMA-TRU	
SET 2. (REAR EXIT DOOR)		
HINGES - 1 ½ PAIR	HAGER 253	4 ½"
RIM TOUCH BAR EXIT DEVICE	VON DUPRIN	22EO
LEVER TRIM	VON DUPRIN	230L 06 22 ALUM FINISH
CLOSER	LCN 4110	ALUM FINISH
THRESHOLD	NG 896N	MILL FINISH, ADA COMPLIANT
DOOR VIEWER	ROCKWOOD	620
KICKPLATE	STAINLESS	INTERIOR SIDE
LATCH GUARD	DON JO	
WEATHERSTRIPPING	THERMA-TRU	
SET 3. (EGRESS EXIT DOOR) (EXIT ONLY)		
HINGES - 1 ½ PAIR	HAGER 253	4 ½"
RIM TOUCH BAR EXIT DEVICE	VON DUPRIN	22EO
LEVER TRIM	VON DUPRIN	230L 06 22 ALUM FINISH
CLOSER	LCN 4110	ALUM FINISH
THRESHOLD	NG 896N	MILL FINISH, ADA COMPLIANT
DOOR VIEWER	ROCKWOOD	620
KICKPLATE	STAINLESS	INTERIOR SIDE
LATCH GUARD	DON JO	
WEATHERSTRIPPING	THERMA-TRU	
SET 4. (RESTROOM DOOR)		
HINGES - 1 ½ PAIR	HAGER 253	4 ½"
RIM TOUCH BAR EXIT DEVICE	VON DUPRIN	22EO
LEVER TRIM	VON DUPRIN	230L 06 22 ALUM FINISH
CLOSER	LCN 4110	ALUM FINISH
THRESHOLD	NG 896N	MILL FINISH, ADA COMPLIANT
DOOR VIEWER	ROCKWOOD	620
KICKPLATE	STAINLESS	INTERIOR SIDE
LATCH GUARD	DON JO	
WEATHERSTRIPPING	THERMA-TRU	
SET 5. (OFFICE DOOR)		
HINGES - 1 ½ PAIR	HAGER 253	4 ½"
LEVER TRIM	SCHLAGE	ND50PD OFFICE LOCK
WALL STOP	IVES	WS406CCV CONCEALED MOUNTING



ACCESSIBLE DOOR DECAL

INTERNATIONAL SYMBOL FOR ACCESSIBILITY - PICTOGRAM WINDOW DECAL
(NOTE: INCLUDE ARROW DECAL DEPICTING DIRECTION TO ACCESSIBLE ENTRANCE IF NOT AN ACCESSSIBLE ENTRANCE)

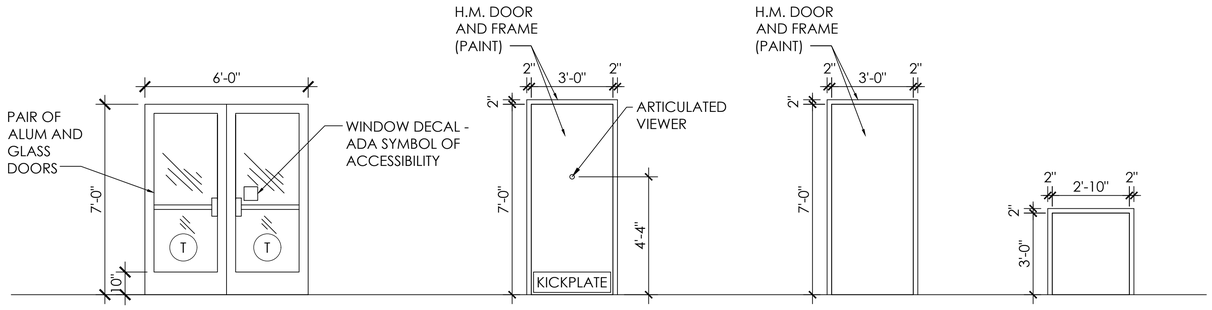
NOTES:

1. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR , MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

2. THE SIGN SHALL BE LOCATED ALONG SIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF , THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. EXCEPTION - SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD OPEN DEVICES.

DOOR AND FRAME SCHEDULE

DESCRIPTION	NO.	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HARDWARE	REMARKS	NO.
STOREFRONT ENTRANCE	1	PR 3'-0" X 7'-0"	A	ALUM	PREFIN	ALUM	PREFIN	H1/A501	J1/A501	S1/A501	PER MFG	STOREFRONT ENTRANCE; AUTOMATIC OPENING	1
STOREFRONT ENTRANCE	2	PR 3'-0" X 7'-0"	A	ALUM	PREFIN	ALUM	PREFIN	H1/A501	J1/A501	S1/A501	PER MFG	STOREFRONT ENTRANCE; AUTOMATIC OPENING	2
REAR EXIT DOOR	3	3'-0" X 7'-0" X 1-3/4"	B	HM	GALV/ PT / 1-HR	HM	PREFIN	H2/A501	J1/A501	S1/A501	SET 2	INSULATED HM DOOR	3
REAR EXIT DOOR	4	3'-0" X 7'-0" X 1-3/4"	B	HM	GALV/ PT / 1-HR	HM	PREFIN	H2/A501	J1/A501	S1/A501	SET 2	INSULATED HM DOOR	4
ELIASON SWINGING DOOR	5		D	-	-	-	-	-	-	-	-		5
ELIASON SWINGING DOOR	6		D	-	-	-	-	-	-	-	-		6
ELEVATOR DOOR	7	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H3/A501	J3/A501	S3/A501	-	HM DOOR	7
OFFICE DOOR	8	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H1/A501	J1/A501	S1/A501	SET 5	HM DOOR	8
MEN'S RESTROOM DOOR	9	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H3/A501	J3/A501	S3/A501	SET 2	HM DOOR	9
JANITOR'S CLOSET DOOR	10	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H3/A501	J3/A501	S3/A501	SET 5	HM DOOR	10
WOMEN'S RESTROOM	11	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H3/A501	J3/A501	S3/A501	SET 2	HM DOOR	11
OFFICE DOOR	12	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H1/A501	J1/A501	S1/A501	SET 5	HM DOOR	12
OFFICE DOOR	13	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H1/A501	J1/A501	S1/A501	SET 5	HM DOOR	13
OFFICE DOOR	14	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H1/A501	J1/A501	S1/A501	SET 5	HM DOOR	14
EGRESS EXIT DOOR	15	3'-0" X 7'-0" X 1-3/4"	B	HM	GALV/ PT / 1-HR	HM	PREFIN	H2/A501	J1/A501	S1/A501	SET 3	INSULATED HM DOOR (1HR RATED) (CLOSE, THRESHOLD, LEVER HANDLES) 5	15
MACHINE ROOM DOOR	16	3'-0" X 7'-0" X 1-3/4"	C	HM	GALV/ PT / 1-HR	HM	PREFIN	H3/A501	J3/A501	S3/A501	SET 5	HM DOOR	16



TYPE "A" TYPE "B" TYPE "C" TYPE "D"

■ NOTES

1. ELEVATIONS ARE VIEWED FROM THE OUTSIDE.
2. DIMENSIONS ARE TO THE DAYLIGHT OPENING, TYPICAL (DLO)
3. FIELD VERIFY OPENINGS PRIOR TO FABRICATION.
4. GLAZING:

U-VALUE: 0.29
SHGC: 0.25
PPG SOLARBAN 60, STARPHIRE CLEAR GLASS SYSTEM OR EQUAL.

■ LEGEND

(T) INDICATES TEMPERED GLAZING

(S) INDICATES SPANDREL GLAZING

1 / A1.1 DOOR & FRAME TYPES 1/4" = 1'-0"

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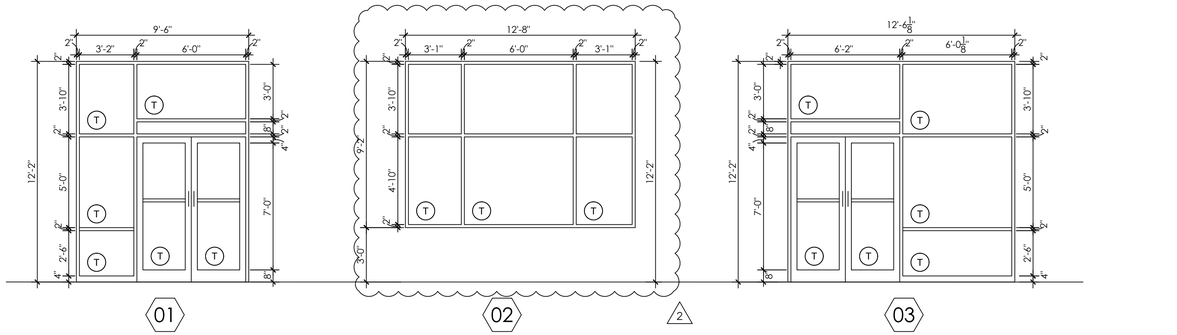
SHEET TITLE:

DOOR DETAILS & SCHEDULES

PROJECT NO: 21035

A8.0



1 A8.1 WINDOW TYPES

1/4" = 1'-0"

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

STROUD
AND COMPANY

MRP
DESIGN GROUP
3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
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ISSUED FOR
CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
04.28.22	RELEASED FOR CONSTRUCTION
05.24.22	REV. 1 PER COMMENTS
09.08.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS

DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROPOSED TWO STORY
CONVENIENCE STORE

PROJECT TITLE:

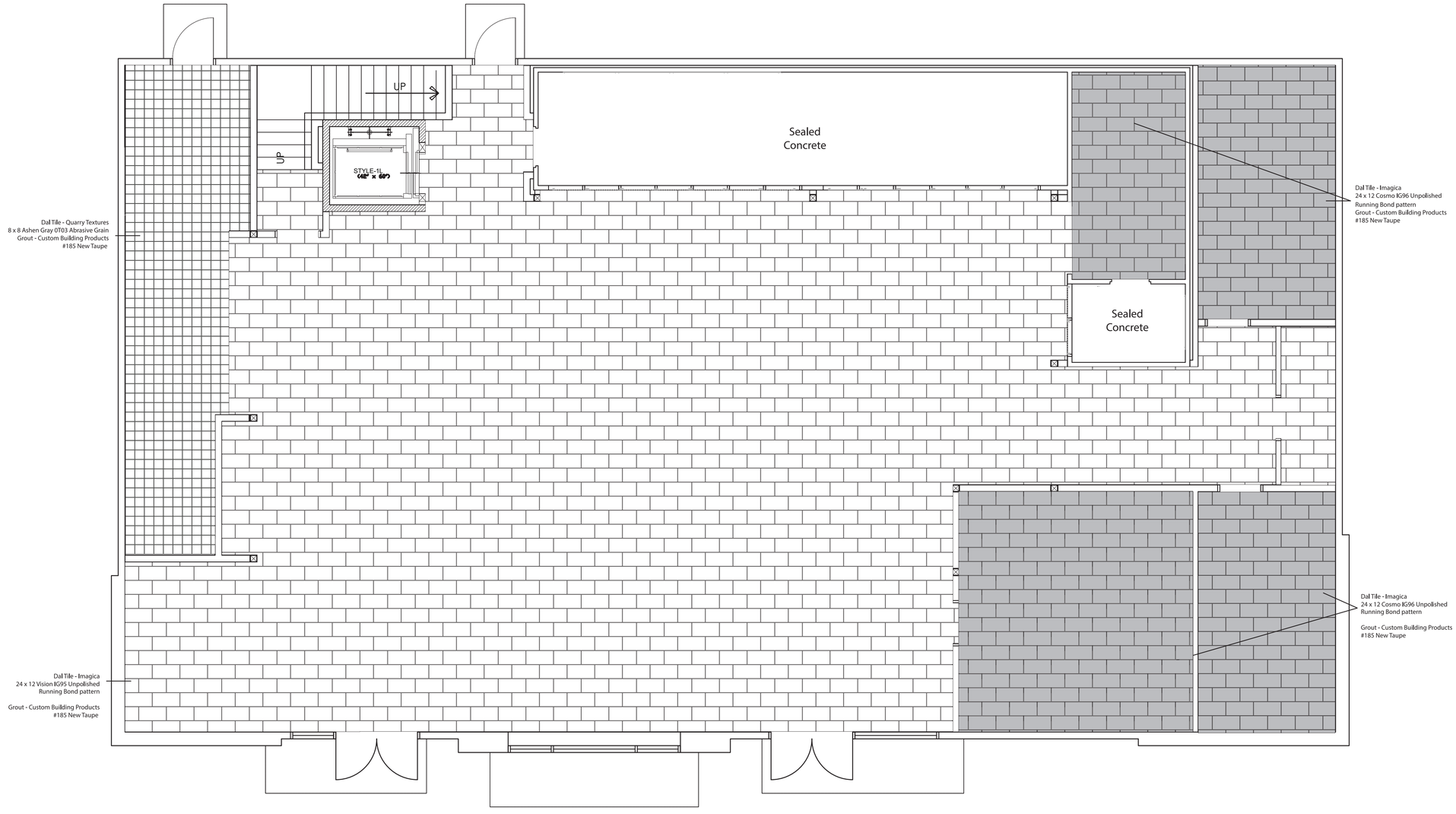
C-STORE /
RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

WINDOW
ELEVATION

PROJECT NO: 21035

A8.1



ARCHITECT OF RECORD:

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ARCHITECT

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SEAL:

809 DESIGN
1000 Van Buren Ave.
Suite F
Indian Trail, NC 28079
704.628.6893

PRELIMINARY
NOT RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY:

CHKD BY:

PROJECT DESCRIPTION:

PROJECT TITLE:

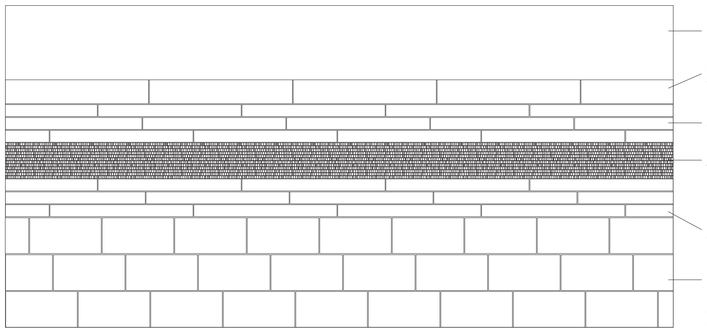
C-STORE /
RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

1st FLOOR
FLOOR FINISH PLAN

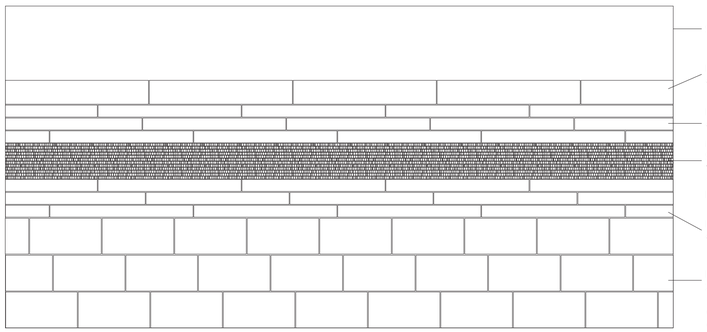
PROJECT NO: 21035

GFX.100



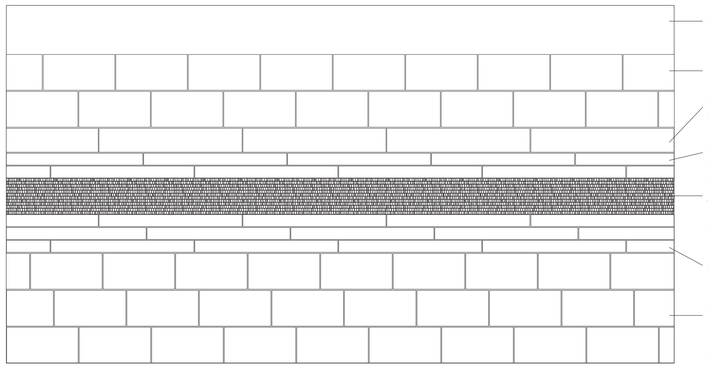
Mens Restroom

Scale: 1/2"1'



Womens Restroom

Scale: 1/2"1'



Back Wall of Restrooms Hallway

Scale: 1/2"1'

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DRAWN BY:

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PROJECT DESCRIPTION:

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

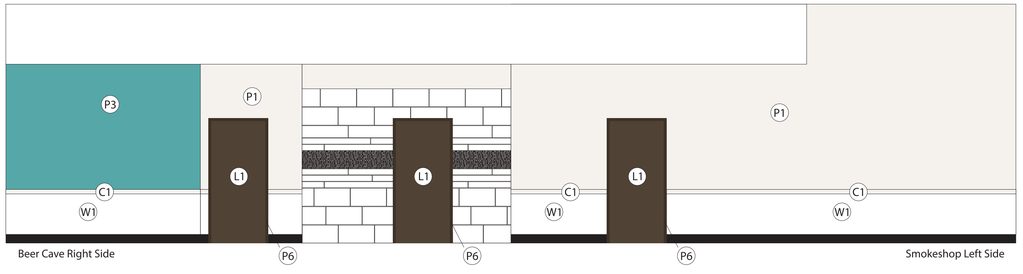
SHEET TITLE:

1st FLOOR
RESTROOM WALLS/
BACK WALL OF
RESTROOM HALLWAY

PROJECT NO: 21035

GFX.101

Store Front
Scale: 1/4"=1'



Restrooms Hallway
Scale: 1/4"=1'

ARCHITECT OF RECORD:

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ISSUES / REVISIONS:

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DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

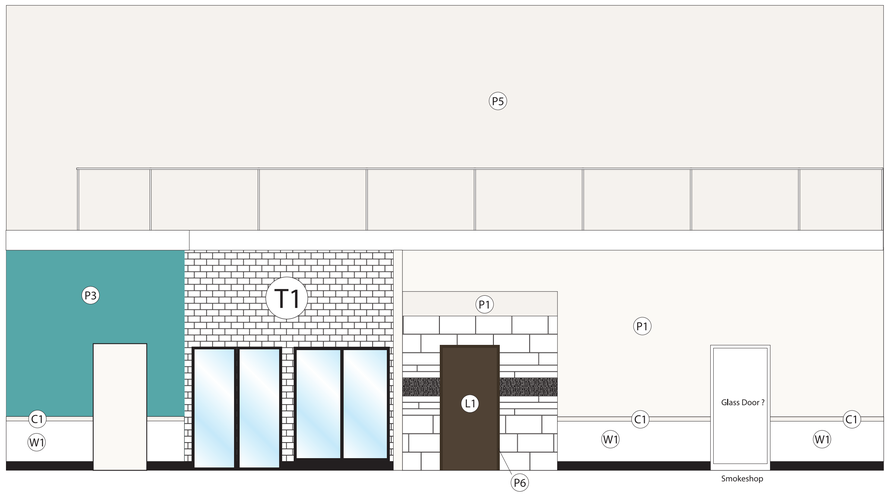
STORE FRONT/
RESTROOMS
HALLWAY

PROJECT NO: 21035

GFX.102

View of Back of Store

Scale: 1/4″=1′



View Of Right Side of Store

Scale: 1/4″=1′

ARCHITECT OF RECORD:

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SEAL:

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ISSUES / REVISIONS:

DATE	DESCRIPTION

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PROJECT DESCRIPTION:

PROJECT TITLE:

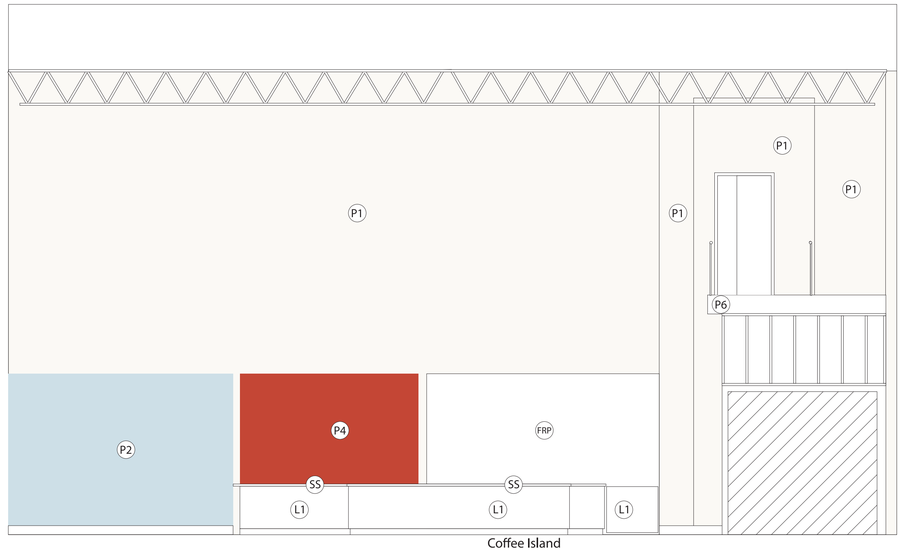
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

RIGHT & BACK VIEWS OF STORE

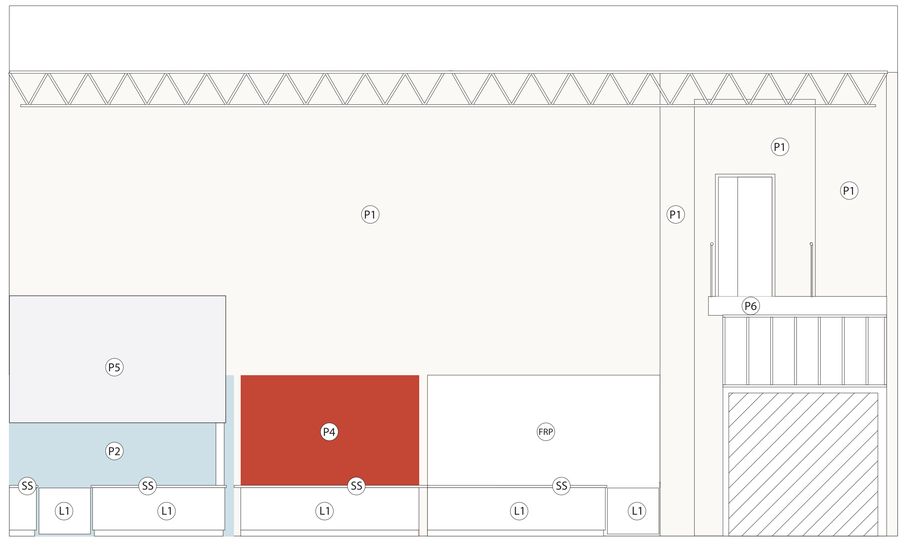
PROJECT NO: 21035

GFX.103



Coffee Island

Left Store View without Cash Bulkhead
Scale: 1/4″=1′



Left Store View with Cash Bulkhead
Scale: 1/4″=1′

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SEAL:

809 DESIGN
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DATE	DESCRIPTION

DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROJECT TITLE:

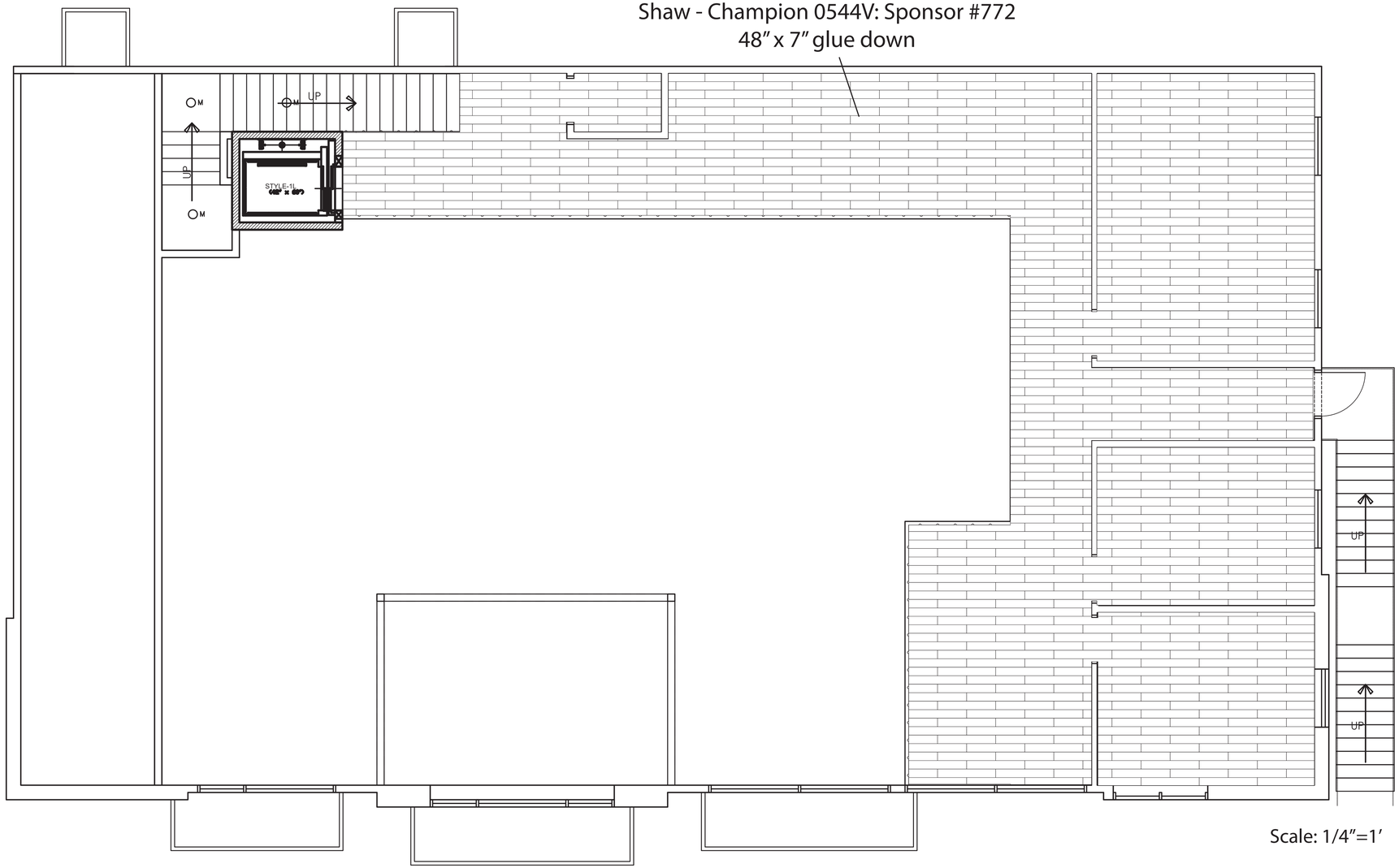
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

LEFT VIEW OF STORE

PROJECT NO: 21035

GFX.104



Scale: 1/4"=1'

ARCHITECT OF RECORD:

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423 FISCHER TRAIL
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SEAL:

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PROJECT DESCRIPTION:

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

2nd FlOOR FLOORING

PROJECT NO: 21035

GFX.105

INTERIOR FINISH SCHEDULE

Sales Floor : (Refer to plan)

Dal Tile Imagica Unpolished / 12″ x 24″ Vision IG95 / Prospec Grout 65 Taupe

Beer Cave/Smoke Shop/ Men's/Womens Restrooms

Dal Tile Imagica Unpolished / 12″ x 24″ Cosmo IG96 / Prospec Grout 65 Taupe

Beer Cave Cooler Face:

T1. Marazzi Urban District BRX glazed paver tile UD05 Downtown Brx 4″ x 8″ - Running Bond pattern
Grout - Custom #52 Tobacco Brown

Sales Floor Base - Roppe Pinnacle Type TS Black - 6″h

2nd Floor:

Shaw - Champion 0544V: Sponsor #772 - 48″ x 7″ glue down

2nd Floor Base throughout - Roppe Pinnacle Type TS Black - 6″h

Reach In Coolers: (Refer to plan)

Polished Concrete

Restrooms

Dal Tile Imagica Unpolished: 12″ x 24″ Cosmo IG96 / Prospec grout 65 Taupe

Restrooms Wall Tile: (Refer to Elevations for patterns)

Men's: Dal Tile Imagica IG97 Haze Light polished 48″ x 8″, 48″ x 4″ 24″ x 12″

Men's and Women's MidPark Mosaics Shadow MP10 trapezoid 1″ Random Mosaic 12″ x 12″ sheer
Part #MP 101 Random MS1P

Women's: Dal Tile Imagica IG95 Vision polished 48″ x 8″, 48″ x 4″ 24″ x 12″

Grout: Custom Building Products Men's #386 Oyster Grey Women's #172 Urban Putty

Toilet Partitions

General Partitions - 228 Linen

Bathroom Sinks

Trueform Concrete : Wite Linen Model 72″ ADA Floating Concrete Ramp Sink Inner sink basin
Model R-6013: 60″L x 13″W x 5″ d Series 2021-HB7 sealer MS-45

Food Prep Floor Tile: (Refer to plan)

Dal Tile Quarry Tile: 8″ x 8″ 0T03 Ashen Gray w/ abrasive grain / Prospec grout 65 Taupe

Food Service Walls:

Marlite Symmetrix SmartSeam Subway - Rejuvenate SS5467-G44 8″ x8″ tile configuration 4'x8' panels

Kitchen Walls

FRP. Marlite - S 100 S/2/S White - Full wall height on all kitchen walls

Cabinets:

Royston Black Metal with L.1 - Wilsonart Stickley Oak 17003K-57

Solid Surface Tops:

SS. - Wilson Art Iron Falls 9238SS

Doors:

Internal Doors - L1. Wilsonart Stickley Oak 17003K-57

Frames and Exit Door at Back of Building - BM 2112-10 Mink

Paint Colors:

P1. BM OC-65 Chantilly Lace - satin finish

P2. BM 806 Breath of Fresh Air - satin finish

P3. BM 733 Palm Coast Teal - Satin Finish

P4. BM 2009-10 Redstone - Satin Finish

P5. BM 1590 Paper White - Satin Finish

P6. BM 2112-10 Mink Semi-gloss Finish

Storage Rooms and Offices - P1

All 2nd Floor Exterior Walls - P5

All Door Frames - P6

All Drywall Ceilings White

Wainscoting:

W1. Wilsonart 1/8″ thick Compact Stickley Oak 17003K-60 - Horizontal grain
Powder coated h-channels and angles to match. C.1 - 3″h x 3/4″ poplar chair rail
with dado on back bottom painted P1. BM OC-65 Chantilly Lace - Semi-gloss finish

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ISSUES / REVISIONS:

DATE	DESCRIPTION

DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

FINISH SCHEDULE

PROJECT NO: 21035

GFX.106

Section 01101 - General

1. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS INCLUDING ALL CLEARANCES, POINTS OF CONNECTION, DIMENSIONS, ETC. THESE DRAWINGS ARE DIAGRAMMATIC AND ALL WORK SHALL BE INSTALLED ACCORDING TO FIELD CONDITIONS.
2. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, TAP CHARGES, DISCONNECT FEES, ETC., AS MAY BE REQUIRED BY THE LOCAL BUILDING DEPARTMENT AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THIS PROJECT.
3. IF THE CONTRACTOR SHOULD DISCOVER ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS OR BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS, THE CONTRACTOR SHALL INCLUDE IN HIS BID PROPOSAL THE GREATER QUANTITY OR THE BETTER QUALITY AND SHALL THEN BRING THE MATTER TO THE OWNER'S ATTENTION FOR A DECISION AND ADJUSTMENT IF NECESSARY.
4. ALL CONSTRUCTION SHALL BE DONE IN STRICT ACCORDANCE WITH THE LOCAL BUILDING CODE.
5. CONTRACTOR SHALL FURNISH A ONE-YEAR UNCONDITIONAL GUARANTEE FOR ALL WORK COMMENCING FROM THE DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER.
6. IT IS EXPRESSLY UNDERSTOOD THAT THE ARCHITECT OR OWNER DOES NOT GUARANTEE THE GUARANTEE PERFORMANCE OF THIS CONTRACT AND THAT NO PROVISION OF THE CONTRACT DOCUMENTS SHALL OPERATE IN ANY WAY TO RELIEVE THE CONTRACTOR FROM ANY LIABILITY RESULTING FROM NEGLIGENCE. INCOMPETENCE OR ERRORS OF OMISSION OR COMMISSION.
7. ALL APPLICATIONS FOR PAYMENT SHALL BE ITEMIZED APPLICATIONS TYPED ON AIA DOCUMENT G702 AND CONTINUATION SHEETS G703.
8. SUBMIT MANUFACTURER'S DATA FOR ALL MANUFACTURED PRODUCTS. SUBMIT SAMPLES OF MANUFACTURED PRODUCTS AS REQUESTED BY OWNER.
9. ALL COMPLETED OR ADJACENT WORK SHALL BE PROTECTED. ALL SURFACES AND FINISHES ARE TO BE PATCHED TO MATCH ADJACENT WHERE DISTURBED BY NEW CONSTRUCTION OR DEMOLITION.
10. VERIFY WITH OWNER, DESIGNATED LOCATIONS FOR CONTRACTOR'S TEMPORARY FIELD OFFICE, TEMPORARY SANITARY FACILITIES, REFUSE DUMPSTER, AND MATERIAL/EQUIPMENT TOOL STORAGE AREAS.
11. VERIFY WITH OWNER. DESIGNATED LOCATIONS OF CONTRACTOR'S EMPLOYEE PARKING. ACCESS ROUTE TO THE SITE, AND ACCESS ROUTE TO THE WORK AREA WITHIN THE BUILDING.
12. MATERIALS DELIVERED TO AND STORED AT THE JOB SITE SHALL BE SO HANDLED AND STORED SO THAT NO COMPONENTS SHALL BE DAMAGED IN ANY WAY. THE OWNER RESERVES THE RIGHT TO REJECT ANY MATERIAL THAT HAS BECOME DAMAGED BECAUSE OF IMPROPER DELIVERY, STORAGE OR HANDLING.
13. PRIOR TO THE START OF WORK, THE INSTALLER SHALL EXAMINE THE WORK AREA AND NOTIFY THE OWNER IN WRITING OR CONDITIONS WHICH WILL ADVERSELY AFFECT THE EXECUTION, TIMELY COMPLETION, AND QUALITY OF HIS WORK. DO NOT PROCEED WITH THE WORK UNTIL SATISFACTORY CONDITIONS HAVE BEEN CORRECTED. START OF INSTALLATION WILL BE CONSTRUED AS CONCLUSIVE EVIDENCE THAT THE EXISTING CONDITIONS HAVE BEEN EXAMINED AND ARE ACCEPTABLE TO THE INSTALLED.

Section 02300 - Earthwork

1. PERFORM ALL EXCAVATION, FILLING AND ROUGH AND FINISH GRADING WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. REMOVE ALL UNSUITABLE SOILS. CAP OFF AND SEAL DISCONTINUED UTILITY SERVICES AND REMOVE PORTIONS OF LINES WITHIN EXCAVATED AREAS. SHORE AND BRACE EXCAVATIONS. DEWATER EXCAVATIONS AS NECESSARY AND REQUIRED.
2. REMOVE TOPSOIL AND STOCKPILE FOR LATER REUSE. EXCAVATE SUBSOIL AND STOCKPILE FOR LATER USE. GRADE AND ROUGH CONTOUR SITE. CLEAR SITE OF PLANT LIFE AND GRASS. REMOVE TREES AND SHRUBS INCLUDING ROOT SYSTEM.
3. FINISH GRADE SUBSOIL. CUT OUT AREAS TO RECEIVE STABILIZING BASE COURSE MATERIALS FOR BITUMINOUS PAVING. PLACE, FINISH GRADE AND COMPACT TOPSOIL. REMOVE EXCESS TOPSOIL FROM SITE.
4. PROTECT TREES, SHRUBS, LAWNS AND OTHER FEATURES DESIGNATED TO REMAIN AS A PORTION OF FINAL LANDSCAPING. PROTECT BENCHMARKS, EXISTING STRUCTURES, FENCES, SIDEWALKS, PAVING AND CURBS FROM EQUIPMENT AND VEHICULAR TRAFFIC.
5. PROTECT ALL EXISTING SERVICE LINES. UTILITY LINES AND RELATED STRUCTURES ENCOUNTERED IN THE EXCAVATION WORK. WHERE SUCH LINES AND STRUCTURES HAVE BEEN UNDERMINED DUE TO THE EXCAVATION WORK, PROVIDE SUITABLE SUPPORTS. WHEN DAMAGED, REPAIR SUCH LINES OR STRUCTURES OR ARRANGE FOR THEIR REPAIR WITH THE PROPER AUTHORITIES OR COMPANIES, AT NO ADDITIONAL COST TO OWNER.
6. EXCAVATED TO THE LINES AND ELEVATIONS INDICATED. MATERIAL EXCAVATION AT THE SITE IS GENERALLY CONSIDERED USABLE FOR GRADING PURPOSES CUTS AND FILLS ARE NOT BALANCED. PROVIDE ALL ADDITIONAL FILL REQUIRED. EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
7. SUB GRADE OF ALL FOOTINGS SHALL BE LEVEL AND CLEAN OF ALL LOOSE ROCK, DIRT AND DEBRIS AND FREE OF STANDING WATER PRIOR TO PLACING CONCRETE. BOTTOMS OF ALL FOOTINGS SHALL BE FOUNDED ON COMPETENT, UNDISTURBED SOIL OR COMPACTED SAND OR GRAVEL FILL AT ELEVATIONS AS INDICATED ON THE DRAWINGS.
8. REMOVE ALL EXISTING ON-GRADE OR BELOW-GRADE CONSTRUCTION WHICH MAY BE ENCOUNTERED IN AREAS TO BE OCCUPIED BY THE NEW STRUCTURE.
9. PLACE AND COMPACT FILL MATERIALS IN CONTINUOUS LAYERS NOT EXCEEDING 6 LOOSE DEPTH. BACK FILL AGAINST SUPPORTED FOUNDATION WALLS IN CONTINUOUS LAYERS NOT EXCEEDING 12 LOOSE DEPTH. BACK FILL SIMULTANEOUSLY ON EACH SIDE OF UNSUPPORTED FOUNDATION WALLS.
10. COMPACT FILLS AND BACK FILLS TO THE FOLLOWING MINIMUM DENSITIES AS PERCENTAGE OF MAXIMUM DENSITIES AT OPTIMUM MOISTURE IN ACCORDANCE WITH ASTM D1557:
    A. FILLS UNDER SURFACE AREAS, FLOORS, AREAWAYS, CURBS, WALKS, DRIVES, PARKING AREAS, STEPS, FOOTINGS, FOUNDATIONS, 95 PERCENT.
    B. FILLS AND BACK FILLS WITHIN 4' FROM OUTSIDE OF WALLS, AND FILLS NOT OTHERWISE SPECIFIED: 95 PERCENT.
    C. FILL UNDER LAWN AND PLANTING AREAS: 85 PERCENT.
11. FILL MATERIALS AND LOCATIONS SHALL BE AS FOLLOWS:
    A. INTERIOR SLAB ON GRADE: CRUSHED STONE GRADED IN ACCORDANCE WITH ASTM C136 WITH 100 PERCENT PASSING A 2" SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.
    B. EXTERIOR SIDE OF FOUNDATION WALLS: SUITABLE EXCAVATED MATERIAL OR SUITABLE IMPORTED MATERIAL, UNLESS SHOWN OTHERWISE.
    C. FILL UNDER LAWN AND PLANTING AREAS: SUBSOIL TO 6 BELOW FINISH GRADE.
    D. EXTERIOR SLAB-ON-GRADE: SUBSOIL MATERIAL OR SUITABLE IMPORTED FILL.
    E. EXTERIOR SIDES OF RETAINING WALLS: SUBSOIL MATERIAL OR SUITABLE IMPORTED FILL WITH EACH 12" LAYER OF BACK FILL MATERIAL COMPACTED TO 90 PERCENT.
    F. FILL UNDER LANDSCAPED AREAS: SUBSOIL FILL. TO 12 BELOW FINISH GRADE.
    G. UNDERGROUND TANKS: FILL SIDES UP TO 2' FROM TOP OF SUB GRADE ELEVATION WITH SUBSOIL. FILL REMAINDER TO TOP OF SUB GRADE ELEVATION WITH SAND. COMPACT TO 90 PERCENT.

Section 03300 - Concrete

1. THIS CONTRACTOR SHALL HAVE BEEN REGULARLY ENGAGED IN THE TYPE OF WORK TO BE PERFORMED FOR THE PAST 5 YEARS AND EMPLOY CRAFTSMEN MECHANICS SKILLED IN THIS TRADE, COMPLETELY FAMILIAR WITH THE METHODS AND MATERIALS CALLED FOR HEREIN.
2. THE WORK, UNLESS OTHERWISE NOTED OR DETAILED, SHALL BE GOVERNED BY THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI-301), EXCEPT WHERE IN CONFLICT WITH THE BUILDING CODE IN FORCE, THE BUILDING CODE SHALL GOVERN.
3. UNLESS NOTED OTHERWISE, ALL CONCRETE WORK SHALL CONFORM TO ACI 301. PLYWOOD FORMS SHALL BE RESIN COATED PLYWOOD. MINIMUM 3/4" THICK. FORM TIES SHALL BE SNAP OR COIL TYPE LEAVING NO METAL IN THE CONCRETE CLOSER THAN 1- 1/2" FROM THE SURFACE. FORM OIL SHALL BE NON-STAINING. REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 347.
4. REINFORCING STEEL BARS: ASTM A615, GRADE 60.
5. WELDED WIRE FABRIC: ASTM A185.
6. ALL REINFORCEMENT SHALL BE FREE FROM RUST, SCALE, GREASE, PAINT OR COATINGS WHICH MAY TEND TO REDUCE OR DESTROY BOND. PLACE REINFORCEMENT IN ACCORDANCE WITH ACI 318.
    A. FABRICATION AND PLACING DRAWINGS FOR ALL REINFORCING STEEL, CONFORMING WITH THE "MANUAL OR STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315. THE SHOP DRAWINGS SHALL BE VERIFIED BY THE FABRICATOR BEFORE SUBMISSION FOR APPROVAL OR THEY WILL BE RETURNED FOR SUCH VERIFICATION.
7. CONCRETE:
    A. PORTLAND CEMENT: ASTM C150, TYPE 1.
    B. AGGREGATE: ASTM C 33. ALL AGGREGATE WHEN SUBJECTED TO 5 CYCLES OF THE SODIUM SULFATE SOUNDNESS TEST SHALL NOT LOOSE MORE THAN 15 PERCENT BY WEIGHT.
    C. WATER: POTABLE.
    D. DESIGN STRENGTH: UNLESS NOTED OTHERWISE, 3,000 PSI AT 28 DAYS; 4" SLUMP MAXIMUM.
8. CONCRETE FOR ANY FOOTING SHALL NOT BE POURED ON FROZEN GROUND OR WHEN WATER IS PRESENT.
9. PROVIDE ADEQUATE RUNWAYS, CHUTES AND OTHER MEANS OF CONVEYING CONCRETE INTO PLACE.
10. PROTECT ALL CONCRETE WORK FROM DRYING OUT BY COVERING IT WITH WATERPROOF PAPER, POLYETHYLENE SHEETING OR WET BURLAP.

Section 04805 - Mortar

1. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY AND REQUIRED TO FURNISH ALL MORTAR AND GROUT AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN:
2. QUALITY ASSURANCE SHALL BE AS ACCORDING TO THE FOLLOWING STANDARDS:
    A. ASTM C144, AGGREGATE FOR MASONRY MORTAR.
    B. ASTM C207, HYDRATED LIME FOR MASONRY PURPOSES.
    C. ASTM C150, PORTLAND CEMENT.
    D. ASTM C270, MORTAR FOR UNIT MASONRY.
    E. ASTM A476, MORTAR AND GROUT FOR REINFORCED MASONRY.
    F. ASTM C404, AGGREGATE FOR GROUT.
3. MANUFACTURER SHALL CERTIFY THAT MATERIALS MEET PROJECT SPECIFICATIONS. 3 COPIES OF MANUFACTURER'S TECHNICAL DATA SHALL BE SUBMITTED. SUBMIT SAMPLES OF EACH TYPE OF COLORED MASONRY MORTAR, SHOWING THE RANGE OF COLOR WHICH CAN BE EXPECTED IN THE FINISHED WORK. LABEL SAMPLES TO INDICATE TYPE AND AMOUNT OF COLORANT USED. OWNERS REVIEW WILL BE FOR COLOR ONLY. COMPLIANCE WITH ALL OTHER REQUIREMENTS IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.
4. ENVIRONMENTAL REQUIREMENTS:
    A. HEAT MIXING WATER WHEN AIR TEMPERATURE IS BELOW 40 F AND HEAT AGGREGATE WHEN AIR TEMPERATURE IS BELOW 32 F TO ASSURE MORTAR TEMPERATURES BETWEEN 40 F AND 120 F UNTIL USED.
    B. PRODUCE SUBSEQUENT MORTAR BATCHES WITHIN PLUS OR MINUS 10 F OF FIRST BATCH. DO NOT HEAT WATER OF SAND ABOVE 120 F.
5. PORTLAND CEMENT: NATURAL COLOR, TYPE II CONFORMING TO ASTM C150.
6. PORTLAND CEMENT, WHITE: TYPE I, CONFORMING TO ASTM C150, NON-STAINING, WHITE, TO PRODUCE REQUIRED COLOR.
7. HYDRATED LIME: TYPE S CONFORMING TO ASTM C207.
8. AGGREGATES FOR MORTAR: NATURAL, CLEAN SAND CONFORMING TO ASTM C144.
9. AGGREGATE FOR GROUT: ASTM C404.

Section 04810 - Concrete Unit Masonry

1. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY AND REQUIRED TO COMPLETE ALL CONCRETE UNIT MASONRY WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN:
2. PRIOR TO INSTALLATION, SUBMIT TO THE OWNER FOR APPROVAL, FIVE INDIVIDUAL SAMPLES SHOWING THE EXTREME VARIATIONS IN EACH COLOR AND TEXTURE. IN ADDITION, SUBMIT TO OWNER FOR APPROVAL, PRIOR TO INSTALLATION, TWO 12" LONG SAMPLES OF STEEL REINFORCEMENT FOR MASONRY JOINTS AND CONTROL JOINT.
3. PRIOR TO DELIVERY, SUBMIT TO OWNER CERTIFICATES ATTESTING COMPLIANCE WITH THE SPECIFICATIONS FOR GRADES, TYPES OF CLASSES INCLUDED IN THESE SPECIFICATIONS. MANUFACTURER'S RECOMMENDED CLEANING AGENT AND APPLICATION PROCEDURE.
4. STORE MASONRY ABOVE GRADE TO PREVENT CONTAMINATION BY MUD, DUST OR MATERIALS LIKELY TO CAUSE STAINING OR OTHER DEFECTS. COVER MATERIALS TO PROTECT FROM ELEMENTS. PROTECT ANCHORS, TIES AND REINFORCEMENT FROM ELEMENTS.
5. COLD WEATHER PROTECTION: REMOVE ICE OR SNOW FORMED ON MASONRY BED BY CAREFULLY APPLYING HEAT WHEN UNIT TOP SURFACE IS DRY TO TOUCH. REMOVE FROZEN OR DAMAGED MASONRY. USE ONLY DRY MASONRY UNITS. DO NOT USE FROZEN UNITS. NO MASONRY SHALL BE LAID WHEN THE TEMPERATURE IS EXPECTED TO FALL BELOW 40 F, UNLESS SUITABLE MEANS, APPROVED IN WRITING BY THE ARCHITECT, ARE PROVIDED TO HEAT MATERIALS, PROTECT WORK FORM COLD AND FROST AND INSURE THAT MORTAR WILL HARDEN WITHOUT FREEZING. PROTECTION REQUIREMENTS FOR COMPLETED MASONRY AND MASONRY NOT BEING WORKED ON.
    A. MEAN DAILY AIR TEMPERATURE 48 F TO 32 F: PROTECT MASONRY FROM RAIN OR SNOW FOR 24 HOURS BY COVERING WITH NON-STAINING WEATHER-RESISTIVE MEMBRANE.
    B. MEAN DAILY AIR TEMPERATURE 32 F TO 25 F: COMPLETELY COVER MASONRY WITH NON-STAINING WEATHER-RESISTIVE MEMBRANE FOR 24 HOURS.
    C. MEAN DAILY AIR TEMPERATURE 25 F TO 20 F: COMPLETELY COVER MASONRY WITH INSULATING BLANKETS OR EQUAL PROTECTION FOR 24 HOURS.
    D. MEAN DAILY AIR TEMPERATURE 20 F AND BELOW: MAINTAIN MASONRY TEMPERATURE ABOVE 30 F FOR 24 HOURS BY ENCLOSURE AND SUPPLEMENTARY HEAT, ELECTRIC HEATING BLANKETS, INFRARED LAMPS OR OTHER ACCEPTABLE METHODS.
6. CONSULT DRAWINGS AND OTHER CONTRACTORS AND PROVIDE CHASES, RECESSES, OPENINGS, ANCHORS, FOR INSTALLATION OF LATER WORK, BUILT-IN WOOD BUCKS, NAILING BLOCKS, ANCHORS, BOXES, PIPING, SLEEVES, FIXTURES, FLASHINGS AND VARIOUS ACCESSORIES, FOR OWN WORK OR SUPPLIED OR SET BY OTHER CONTRACTORS FOR THEIR WORK, IN A MANNER TO AVOID CUTTING AND PATCHING.

Section 04810 - Concrete Unit Masonry cont...

7. CONCRETE MASONRY UNITS:
    A. HOLLOW LOAD BEARING UNITS: ASTM C90, TYPE 1, GRADE N. MINIMUM COMPRESSIVE STRENGTH OF F'm=1500 SQUARE INCH, NOMINAL FACE DIMENSION OF 10" OR 12"X16". FIRE RATED UNITS SHALL CONFORM TO GOVERNING CODES. ALL CELLS BELOW GRADE SHALL BE GROUTED.
    B. ARCHITECTURAL SPLIT FACE CONCRETE UNITS: DRY-BLOCK SYSTEM OR DRY-BLOCK INTEGRAL WATER REPELLANT ADMIXTURE FOR BLOCK. COLOR CHOSEN FROM MANUFACTURER'S STANDARD COLORS, AS MANUFACTURED BY NORTH FIELD BLOCK COMPANY, OR EQUAL.
    C. ALL MASONRY UNITS SHALL BE MADE WITH LIGHTWEIGHT AGGREGATE CONFORMING TO ASTM C331, EXCEPT CINDERS SHALL NOT BE USED. THE UNITS SHALL HAVE A LINEAR SHRINKAGE OF FROM 0.030 PERCENT TO 0.45 PERCENT. ALL EXPOSED EXTERIOR COMERS SHALL BE BLUENOSE, UNLESS OTHERWISE SHOWN.
8. METAL REINFORCING:
    A. EXTERIOR MASONRY WALLS SHALL BE BONDED AND REINFORCED WITH BLOK-TRUS AA610 (WITH MOISTURE DRIP). HOT DIPPED GALVANIZED, ASTM A153. CLASS B- 2, MANUFACTURED BY THE A. A. WIRE PRODUCTS CO, OR EQUAL. THE REINFORCING SHALL BE PLACED CONTINUOUSLY IN EVERY SECOND COURSE OF BLOCK.
9. CONTROL JOINTS: SERIES BLOK-TITE AA2000, TYPE AS INDICATED OR REQUIRED, MANUFACTURED BY A. A. WIRE PRODUCTS COMPANY, OR EQUAL.
10. VERMICULITE LOOSE FILL INSULATION, ASTM C516, IN CORES OF MASONRY UNITS, WHERE SHOWN ON DRAWINGS.
11. BOND: RUNNING BOND WITH VERTICAL JOINTS LOCATED AT CENTER OF MASONRY UNITS IN ALTERNATE COURSE BELOW. SET UNITS PLUMB, TRUE TO LINE, AND WITH LEVEL COURSES ACCURATELY SPACED.
12. GENERAL EXECUTION:
    A. LAY ONLY DRY MASONRY UNITS. USE MASONRY SAWS TO CUT AND FIT MASONRY UNITS. LAY IN RUNNING BOND WITH VERTICAL JOINTS LOCATED AT CENTER OF MASONRY UNITS IN ALTERNATE COURSE BELOW. SET UNITS PLUMB, TRUE TO LINE AND WITH LEVEL COURSES ACCURATELY SPACED. ADJUST MASONRY UNIT TO FINAL POSITION WHILE MORTAR IS SOFT AND PLASTIC. WHEN UNITS ARE DISPLACED AFTER MORTAR HAS STIFFENED, REMOVE, CLEAN JOINTS AND UNITS OF MORTAR AND RELAY WITH FRESH MORTAR. ADJUST SHELF ANGLES TO KEEP MASONRY LEVEL AND AT PROPER ELEVATION.
    B. PROVIDE PRESSURE-RELIEVING JOINTS BY PLACING A CONTINUOUS 1/8" FOAM NEOPRENE PAD UNDER THE SHELF ANGLE AND SEAL JOINT WITH SEALANT SPECIFIED IN SECTION 07920.
    C. WHEN JOINING FRESH MASONRY TO SET OR PARTIALLY SET MASONRY CONSTRUCTION, CLEAN EXPOSED SURFACE OF SET MASONRY AND REMOVE LOOSE MORTAR PRIOR TO LAYING FRESH MASONRY.
    D. WHEN NECESSARY TO STOP OFF A HORIZONTAL RUN OF MASONRY, RACK BACK ONE-HALF BLOCK LENGTH IN EACH COURSE.
    E. DO NOT USE TOOLING TO JOIN NEW MASONRY TO SET OR PARTIALLY SET MASONRY WHEN CONTINUING A HORIZONTAL RUN.
13. LAY WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS AND WEBS IN ALL COURSES OF FOLLOWING:
    A. SOLID UNITS: LAY WITH FULL MORTAR (TYPE S) COVERAGE ON HORIZONTAL AND VERTICAL JOINTS.
14. HORIZONTAL AND VERTICAL FACE JOINTS: NOMINAL THICKNESS: 3/8". CONSTRUCT UNIFORM JOINTS. SHOVE VERTICAL JOINTS TIGHT. STRIKE JOINTS FLUSH IN SURFACES TO BE COVERED WITH OTHER MASONRY, OR OTHER SURFACE APPLIED FINISH OTHER THAN PAINT. PAINT JOINTS TIGHT IN UNPARGED MASONRY BELOW GROUND. TOOL JOINTS IN EXPOSED OR TO BE PAINTED SURFACES WHEN THUMB PRINT HARD WITH CONCAVE JOINTER. REMOVE MORTAR PROTRUDING INTO CELLS OF CAVITIES TO BE REINFORCED OR FILLED. FILL HORIZONTAL JOINTS WITH MORTAR BETWEEN TOP OF MASONRY PARTITIONS AND UNDERSIDE OF SLABS OR BEAMS.
15. AVOID CUTTING AND PATCHING AS MUCH AS POSSIBLE. INSTALL BOLTS. ANCHORS, NAILING BLOCKS, INSERTS, ACCESS PANELS, FRAMES, VENTS, FLASHINGS, CONDUIT AND OTHER BUILT-IN ITEMS AS MASONRY WORK PROGRESSES. SOLIDLY GROUT SPACES AROUND BUILT-IN ITEMS. PROVIDE OUTSIDE JOINT AROUND EXTERIOR DOOR AND WINDOW FRAMES AND OTHER FRAMED WALL OPENINGS:
    A. WIDTH: 1/4" TO 3/8"
    B. RAKE AND TOOL SMOOTH TO A UNIFORM DEPTH EQUAL TO WIDTH.
16. PROVIDE VERTICAL EXPANSION AND CONTROL JOINTS IN EXTERIOR MASONRY WHERE SHOWN OR REQUIRED. BUILD-IN RELATED MASONRY ACCESSORY ITEMS AS THE MASONRY WORK PROGRESSES.
    A. IF LOCATION OF CONTROL JOINTS IS NOT SHOWN, PLACE VERTICAL JOINTS SPACED NOT TO EXCEED 30' O.C. AT EXPOSED INTERIOR CONCRETE MASONRY PARTITIONS, LOCATE CONTROL JOINT VERTICALLY ABOVE THE DOOR FRAME IN LINE WITH EACH JAMB OF DOOR OPENING.
17. AT FINAL COMPLETION OF UNIT MASONRY WORK FILL HOLES IN JOINTS AND TOOL. DO NOT FILL WEEP HOLES. CUT OUT AND REPOINT DEFECTIVE JOINTS. DRY BRUSH MASONRY SURFACE AFTER MORTAR HAS SET. AT END OF EACH DAY'S WORK AND AFTER FINAL POINTING. LEAVE WORK AND SURROUNDING SURFACES CLEAN AND FREE OF MORTAR SPOTS AND DROPPINGS.
18. WALLS SHALL BE GROUTED USING LOW LIFT GROUTING TECHNIQUES.

Section 04811 - Brick Masonry

GENERAL PROVISIONS

1. SCOPE: FURNISH AND INSTALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE MASONRY WORK AS SHOWN ON DRAWINGS AND ELEVATIONS.
2. NOTES:
    A. NO MASONRY WORK SHALL BE DONE WHEN THE TEMPERATURE IS 40 DEG F OR BELOW AND FALLING OR FREEZING TEMPERATURES ARE PREDICTED WITHIN TWENTY FOUR (24) HOURS, UNLESS ADEQUATE PROTECTION IS PROVIDED.
3. SUBMISSIONS: SUBMIT FACE BRICK TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.

MATERIALS

4. BRICK:
    A. FACE BRICK SHALL CONFORM TO ASTM SPECIFICATION C-216. BRICK SHALL BE STANDARD SIZE (2 1/2" X 7 5/8" X 3 5/8"), UNIFORM IN SIZE, SHAPE, AND COLOR. BRICK TEXTURE AND THRU-BODY COLOR SHALL BE CHOSEN BY THE OWNER.
    B. BUILDING BRICK SHALL CONFORM TO ASTM SPECIFICATION C62. USE GRADE SW FOR FOUNDATIONS, WORK BELOW GRADE, AND WORK IN CONTACT WITH EARTH. USE GRADE MW FOR WALLS ABOVE GRADE. BRICK SHALL BE STANDARD SIZE (2 1/2" X 7 5/8" X 3 5/8"), UNIFORM IN SIZE AND SHAPE. USE BUILDING BRICK FOR WORK NOT EXPOSED TO VIEW.
5. JOINT REINFORCEMENT AND ANCHORS:
    A. BEARING WALLS: MASONRY JOINT REINFORCEMENT FOR EXTERIOR WALLS SHALL BE SIZED FOR APPROPRIATE WALL THICKNESS TO PROVIDE 5/8" MINIMUM MORTAR COVERAGE ON THE FACES OF MASONRY CAVITY WALLS AND COMPOSITION OF 3/16" DEFORMED SIDE RODS AND 3/16" CROSS RODS. ALL REINFORCEMENT SHALL BE HOT DIP GALVANIZED. PRODUCTS SHALL BE AS MANUFACTURED BY DUR-O-WALL, AA WIRE PRODUCTS, OR EQUAL.
    B. VENEER WALLS WITH WOOD STUDS: 16 GAUGE GALVANIZED STEEL CORRUGATED MASONRY WALL TIES NOT LESS THAN 7/8" WIDE AND 5 1/2" LONG.
    C. VENEER WALLS WITH METAL STUDS: HOT DIPPED GALVANIZED METAL ANCHOR PLATE AND WIRE TIE #AA 401-S WITH AA 335 1 1/4" SELF TAPPING SCREWS BY AA WIRE PRODUCTS COMPANY (312) 586-6700 OR #D/A 213 WITH DA 807 x 1 1/2" SELF TAPPING SCREW BY DUR-O-WALL, INC. 1 (800) 323-0090.

Section 04811 - Brick Masonry cont...

6. BRICK MORTAR: TYPE M OR S, CONFORMING TO ASTM C-270, COLOR TO BE APPROVED BY OWNER. UNCOLORED MORTAR FOR CONCEALED BACK-UP MATERIALS.
    A. CEMENT: SHALL BE STANDARD BRAND OF GRAY PORTLAND, CONFORMING TO ASTM C-150, TYPE I OR II.
    B. SAND: SHALL BE CLEAN, SHARP BUILDERS SAND CONFORMING TO ASTM C-144.
    C. LIME: SHALL BE CALCIUM, TYPE S, CONFORMING ASTM C-207.
    D. WATER: SHALL BE POTABLE, FREE FROM INJURIOUS ALKALIES OR ACIDS, CONFORMING TO ASTM C-270.
    E. PLASTICIZING AGENT: SHALL BE OMICRON, OR APPROVED EQUAL, USED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
    F. SUBSTITUTION: PREPARED MIX SHALL CONFORM TO THE LIME-CEMENT MORTAR AND COLORS AS SPECIFIED ABOVE.

PERFORMANCE

7. ALL MASONRY:
    A. CUTTING TO FIT ELECTRICAL OUTLETS, SWITCHES, PANELS OTHER DEVICES OR SPECIAL CONDITIONS SHALL BE DONE WITH A MASONRY SAW.
    B. PROTECTION: ALL MATERIAL AND WALLS SHALL BE COVERED AND PROTECTED AGAINST WEATHER DURING CONSTRUCTION.
    C. BOND: SHALL BE COMMON BOND UNLESS OTHERWISE INDICATED.
    D. JOINTS: SHALL BE TOOLED TO FORM A TIGHT-TOOLED CONCAVE JOINT.
    E. WEEPS: PLACE WICKS IN WEEPS AT 24" ON CENTER MAXIMUM AT THE GROUND LEVEL COURSE OF ALL BRICK WALLS.
8. JOINT REINFORCEMENT:
    A. BEARING WALLS: SHALL BE INSTALLED CONTINUOUSLY IN HORIZONTAL COURSES AT 16" O.C. VERTICALLY. THE TOP TWO (2) COURSES ABOVE THE REAR DOOR SHALL BE REINFORCED AND EXTEND 24" BEYOND THE OPENING. LAP SPLICES A MINIMUM OF 6" FOR CONTINUITY.
    B. VENEER WALLS: MASONRY WALL TIES SHALL BE INSTALLED AT 24" O.C. HORIZONTALLY AND 10.5" VERTICALLY ATTACHED DIRECTLY TO STUDS, WITH SCREW SPECIFIED.
9. MORTAR: MORTAR SHALL BE MIXED AND USED IN ACCORDANCE WITH APPLICABLE CODES AND THE DICTATES OF GOOD PRACTICE. COLOR TO BE APPROVED BY OWNER.
10. BUILT-IN WORK: BUILT-IN WORK SPECIFIED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS AS THE WORK PROGRESSES.
11. THRU WALL FLASHING: INSTALL WHERE SHOWN ON DRAWINGS, PAN ALL CORNERS. WHERE JOINTS ARE NECESSARY, LAP FLASHING 3" AND CEMENT WITH HIGH GRADE ASPHALTIC CEMENT.
12. GENERAL EXECUTION:
    A. LAY ONLY DRY MASONRY UNITS. USE MASONRY SAWS TO CUT AND FIT MASONRY UNITS. LAY IN RUNNING BOND WITH VERTICAL JOINTS LOCATED AT CENTER OF MASONRY UNITS IN ALTERNATE COURSE BELOW. SET UNITS PLUMB, TRUE TO LINE AND WITH LEVEL COURSES ACCURATELY SPACED. ADJUST MASONRY UNIT TO FINAL POSITION WHILE MORTAR IS SOFT AND PLASTIC. WHEN UNITS ARE DISPLACED AFTER MORTAR HAS STIFFENED, REMOVE, CLEAN JOINTS AND UNITS OF MORTAR AND RELAY WITH FRESH MORTAR. ADJUST SHELF ANGLES TO KEEP MASONRY LEVEL AND AT PROPER ELEVATION.
    B. PROVIDE PRESSURE-RELIEVING JOINTS BY PLACING A CONTINUOUS 1/8" FOAM NEOPRENE PAD UNDER THE SHELF ANGLE AND SEAL JOINT WITH SEALANT SPECIFIED IN SECTION 07920.
    C. WHEN JOINING FRESH MASONRY TO SET OR PARTIALLY SET MASONRY CONSTRUCTION, CLEAN EXPOSED SURFACE OF SET MASONRY AND REMOVE LOOSE MORTAR PRIOR TO LAYING FRESH MASONRY.
    D. WHEN NECESSARY TO STOP OFF A HORIZONTAL RUN OF MASONRY, RACK BACK ONE-HALF BLOCK LENGTH IN EACH COURSE.
    E. DO NOT USE TOOLING TO JOIN NEW MASONRY TO SET OR PARTIALLY SET MASONRY WHEN CONTINUING A HORIZONTAL RUN.
13. LAY WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS AND WEBS IN ALL COURSES OF FOLLOWING:
    A. SOLID UNITS: LAY WITH FULL MORTAR (TYPE N) COVERAGE ON HORIZONTAL AND VERTICAL JOINTS.
14. HORIZONTAL AND VERTICAL FACE JOINTS: NOMINAL THICKNESS: 3/8". CONSTRUCT UNIFORM JOINTS. SHOVE VERTICAL JOINTS TIGHT. STRIKE JOINTS FLUSH IN SURFACES TO BE COVERED WITH OTHER MASONRY, OR OTHER SURFACE APPLIED FINISH OTHER THAN PAINT. PAINT JOINTS TIGHT IN UNPARGED MASONRY BELOW GROUND. TOOL JOINTS IN EXPOSED OR TO BE PAINTED SURFACES WHEN THUMB PRINT HARD WITH CONCAVE JOINTER. REMOVE MORTAR PROTRUDING INTO CELLS OF CAVITIES TO BE REINFORCED OR FILLED. FILL HORIZONTAL JOINTS WITH MORTAR BETWEEN TOP OF MASONRY PARTITIONS AND UNDERSIDE OF SLABS OR BEAMS.
15. AVOID CUTTING AND PATCHING AS MUCH AS POSSIBLE. INSTALL BOLTS. ANCHORS, NAILING BLOCKS, INSERTS, ACCESS PANELS, FRAMES, VENTS, FLASHINGS, CONDUIT AND OTHER BUILT-IN ITEMS AS MASONRY WORK PROGRESSES. SOLIDLY GROUT SPACES AROUND BUILT-IN ITEMS. PROVIDE OUTSIDE JOINT AROUND EXTERIOR DOOR AND WINDOW FRAMES AND OTHER FRAMED WALL OPENINGS:
    A. WIDTH: 1/4" TO 3/8"
    B. RAKE AND TOOL SMOOTH TO A UNIFORM DEPTH EQUAL TO WIDTH.
16. PROVIDE VERTICAL EXPANSION AND CONTROL JOINTS IN EXTERIOR MASONRY WHERE SHOWN OR REQUIRED. BUILD-IN RELATED MASONRY ACCESSORY ITEMS AS THE MASONRY WORK PROGRESSES.
    A. IF LOCATION OF CONTROL JOINTS IS NOT SHOWN, PLACE VERTICAL JOINTS SPACED NOT TO EXCEED 30' O.C.
17. AT FINAL COMPLETION OF UNIT MASONRY WORK FILL HOLES IN JOINTS AND TOOL. DO NOT FILL WEEP HOLES. CUT OUT AND REPOINT DEFECTIVE JOINTS. DRY BRUSH MASONRY SURFACE AFTER MORTAR HAS SET. AT END OF EACH DAY'S WORK AND AFTER FINAL POINTING. LEAVE WORK AND SURROUNDING SURFACES CLEAN AND FREE OF MORTAR SPOTS AND DROPPINGS.

Section 05130 - Miscellaneous Metal

1. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY AND REQUIRED TO COMPLETE ALL MISCELLANEOUS METAL WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
2. PREPARE SHOP DRAWINGS COVERING ALL WORK WHICH REQUIRES FABRICATION. SUBMIT DRAWINGS AND CUTS OF MANUFACTURED ARTICLES AT EARLIEST POSSIBLE DATE TO INSURE TIMELY DELIVERIES. FURNISH INFORMATION TO OTHER TRADES TO PERMIT PROPER INSTALLATION OF INSERTS, ANCHORS. HANGERS. ETC., REQUIRED FOR ERECTION OF MISCELLANEOUS METAL ITEMS.
3. STEEL: CONFORMING TO ASTM SPECIFICATION A36 FOR STRUCTURAL STEEL AND A27 FOR CAST IRON. ARCHITECTURAL AND MISCELLANEOUS STEEL NOT OTHERWISE INDICATED OR SPECIFIED SHALL BE MILD STEEL.
4. ALUMINUM: ALUMINUM EXTRUSIONS: ASTM B221, ALLOY 6063- T52, WITH SECTIONS NOT LESS THAN 0.081" THICK, OF THE SIZES AND PROFILES SHOWN. ALUMINUM SHEET: ASTM B209, ALLOY 3003 OR 5005.
5. STEEL LINTELS: PROVIDE GALVANIZED LOOSE STEEL LINTELS OVER OPENINGS, WHERE SHOWN, AS DETAILED. WELD ADJOINING MEMBERS TOGETHER TO FORM A SINGLE UNIT UNLESS OTHERWISE SHOWN. LINTELS SHALL HAVE 8" MINIMUM BEARING AT EACH END ON MASONRY. LINTELS SHALL BE COMPLETE WITH ANCHORS, ETC., AS REQUIRED, FOR SECURING TO CONSTRUCTION.
6. SUPPORTS ABOVE CEILING: PROVIDE SUPPORTS ABOVE CEILINGS FOR THE FOLLOWING ITEMS AND OTHER ITEMS WHERE SHOWN, COMPLETE WITH ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR INSTALLATIONS INDICATED AND AS DETAILED.
7. PAINT: APPLY ONE SHOP COAT OF RED IRON OXIDE OR ZINC CHROMATE-SILICATE PRIMER TO ALL STEEL SURFACES EXCEPT MACHINED SURFACES, SURFACES IN CONTACT WITH CONCRETE. MEMBERS TOTALLY ENCASED IN CONCRETE AND EDGES OR SURFACES ADJACENT TO FIELD WELDS. SURFACES MUST BE DRY BEFORE PAINTING.
8. MISCELLANEOUS METAL ITEMS: FURNISH AND INSTALL ALL STEEL ANGLES, CHANNELS, PLATES, ANCHORS AND OTHER MISCELLANEOUS STEEL ITEMS OR ASSEMBLIES AS INDICATED ON THE DRAWINGS OR REQUIRED FOR INSTALLATION OF OTHER ITEMS. PROVIDE ALL SHIMS REQUIRED FOR ALIGNMENT.
9. BEFORE FABRICATING ITEMS SPECIFIED IN THIS SECTION, FIELD MEASUREMENTS SHALL BE REQUIRED TO INSURE PROPER INSTALLATION.

Section 05140 - Anchoring System

1. UNLESS NOTED, ALL ANCHORS IN CONCRETE SHALL BE CARBON STEEL HILTI KWIK BOLTS 3 (ICC-ES EVALUATION REPORT ESR-1385). UNLESS NOTED, EMBEDMENT (NOT INCLUSIVE OF THREADS) SHALL BE AS FOLLOWS: ¼" DIAMETER - 2", 3/8" DIAMETER - 2 ½", ½" DIAMETER - 3 ½", 5/8" DIAMETER - 4", ¾" DIAMETER - 4 ¾", AND 1" DIAMETER - 6". UNLESS NOTED, ALL ANCHORS IN GROUTED MASONRY WALLS SHALL BE HILTI HIT-HY 150 MAX THREADED ROD ADHESIVE ANCHORING SYSTEM (ICC-ES REPORT ESR-1967) AS OUTLINED IN "2".
2. WHERE CALLED OUT ON THE DRAWINGS, USE HILTI HIT-HY 150 MAX THREADED ROD ADHESIVE ANCHORING SYSTEM (ICC-ES EVALUATION REPORT ESR-2262). UNLESS NOTED, EMBEDMENT SHALL BE AS FOLLOWS: 3/8" DIAMETER - 3 3/8", ½" DIAMETER - 4 ½", 5/8" DIAMETER - 5 5/8", ¾" DIAMETER - 6 ¾", 7/8" DIAMETER - 7 7/8", AND 1" DIAMETER - 9".
3. WHERE CALLED OUT ON THE DRAWINGS, USE HILTI HIT-HY 150 MAX REBAR ADHESIVE ANCHORING SYSTEM (ICC-ES EVALUATION REPORT ESR-2262). UNLESS NOTED, EMBEDMENT SHALL BE AS FOLLOWS: #3 - 3 3/8", #4 - 4 ½", #5 - 5 5/8", #6 - 6 ¾", #7 - 7 7/8", #8 - 9", #9 - 10 1/8", #10 - 11 ¼".
4. UNLESS NOTED ANCHOR SPACING (AS) SHALL BE AS PUBLISHED BY THE BY MOST CURRENT APPROVED ICC-ES REPORT IN ORDER TO DEVELOP MAXIMUM WORKING LOAD. UNLESS NOTED ANCHOR EDGE DISTANCE (ED) SHALL BE PUBLISHED BY THE MOST CURRENT APPROVED ICC-ES REPORT IN ORDER TO DEVELOP MAXIMUM SHEAR LOAD.
5. MASONRY WALLS RECEIVING ANCHORS SHALL BE GROUTED PRIOR TO ANCHORING. PROVIDE MINIMUM EDGE DISTANCE THAT REQUIRED TO DEVELOP THE MAXIMUM WORKING LOAD PUBLISHED BY ICC-ES REPORT.
6. ALL ANCHORS SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS IN ORDER TO DEVELOP THE PUBLISHED WORKING LOADS. unless NOTED, SPECIAL INSPECTION TESTING AGENCY IS REQUIRED.
7. MINIMUM CONCRETE COMPRESSIVE STRENGTH REQUIRED AT TIME OF INSTALLATION OF ANY ANCHORS SHALL BE 2500 PSI.
8. MINIMUM GROUT FILL MASONRY COMPRESSIVE STRENGTH REQUIRED AT AT TIME OF INSTALLATION OF ANY ANCHORS SHALL BE 1500 PSI.

PLYWOOD

1. ALL PLYWOOD SHEATHING, DIAPHRAGMS AND SHEARWALL PANELS SHALL CONFIRM TO U.S. PRODUCT STANDARD PS-1-83 WITH EXTERIOR GLUE.
2. PLYWOOD SHEETS SHALL BE LAID WITH LONG DIMENSION PERPENDICULAR TO THE SUPPORTING FRAMING.
3. SEE SHEARWALL SCHEDULE FOR SHEATHING GRADES FOR SHEARWALLS.
4. PLYWOOD WALL SHEATHING SHALL BE: ½" CDX (INDEX 24 / 0) AND SHALL BE FASTENED WITH 8d NAILS @ 6" O.C. AT ALL EDGES AND 8d NAILS @ 12" O.C. IN PANEL FIELD. PROVIDE 2x4 BLOCKING AT ALL PANEL EDGES.
5. PLYWOOD ROOF SHEATHING SHALL BE: ¾" CDX (INDEX 48 / 24) AND SHALL BE FASTENED WITH 8d NAILS @ 6" O.C. AT ALL EDGES AND 8d NAILS @ 12" O.C. IN PANEL FIELD.

Section 06130 - WOOD FRAMING

1. ALL WOOD DESIGN AND CONSTRUCTION SHALL CONFORM TO NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, (ANSI/AF&PA NDS-2005) AND RELATED SUPPLEMENTS.
2. UNLESS NOTED, USE SPRUCE PINE FIR (SPF) (E=1100 KSI MIN.)19% MAX. MOISTURE CONTENT, AS FOLLOWS:

   LOAD BEARING STUDS
   (INTERIOR & EXTERIOR).......................................NO.2

   NON LOAD BEARING STUDS
   (INTERIOR) ....STUD GRADE

   JOIST, PURLINS..NO.2

   BEAMS, HEADERS NO.2

   PLATES, BLOCKING & SUB-PURLINS..................NO.2
3. ALL WOOD IN CONTACT WITH CONCRETE MASONRY OR SOIL, OR PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.
4. AT STUD WALL OPENINGS, THE TOTAL NUMBER OF DISPLACED AND/OR CUT STUDS SHALL BE INSTALLED AND ATTACHED TO THE JAMBS, ONE-HALF OF THE TOTAL TO EACH SIDE OF THE OPENING (TOTAL NUMBER INCLUDING JACK AND KING STUDS)
5. METAL CONNECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS SO THAT THE MAXIMUM PUBLISH CAPACITY IS DEVELOPED.
6. WHERE NO CONNECTION IS INDICATED ON THE DRAWINGS, ATTACHMENT SHALL BE MADE IN ACCORDANCE TO TABLE 2304.9.1 FASTENING SCHEDULE IN THE INTERNATIONAL BUILDING CODE.
7. ALL CONNECTORS SHALL BE G90 GALVANIZED STEEL, EXCEPT CONNECTORS IN CONTACT WITH PRESSURE TREATED, FIRE-RETARDANT OR WOLMANIZED WOOD SHALL BE COATED WITH G185 ZINC COATING.
8. FURNISH BOLTS AND ANCHOR RODS WITH STANDARD NUT WASHER.
9. TOE NAILS SHALL BE DRIVEN AT A 30° ANGLE RELATIVE TO PIECE. START NAIL AT ONE-THIRD LENGTH FROM THE END OF PIECE.
10. ALL LOAD BEARING STUD WALLS (INTERIOR & EXTERIOR) SHALL HAVE CONTINUOUS HORIZONTAL BLOCKING AT 4'-0" O.C. (MAX) VERTICALLY PRIOR TO APPLYING ANY LOADS (INCLUDING FRAMING OR FLOORS ABOVE).
11. WHERE (2)-2X AND (2)-2X + ½" PLYWOOD PLATE BEAMS ARE DESIGNATED, SPIKE PLATES TOGETHER WITH 12D NAILS @ 12" O.C., 1" FROM TOP AND 1" FROM BOTTOM OF PLATE.
12. WHERE (3) 2X AND LARGER BEAMS ARE DESINATED, PLATES SHALL BE BOLTED TOGETHER WITH ½" Ø BOLTS @ 30" O.C., 1 ½" FROM THE TOP AND BOTTOM. BOLTS SHALL HAVE MINIMUM BENDING YIELD (FBY) OF 45,000 PSI.
13. WHER STUD PACK WOOD COLUMNS ARE DESIGNATED, SPIKE STUDS TOGETHER WITH 16D NAILS @ 12" O.C. (VERTICALLY).
14. STUD PACK OR SOLID SAWN WOOD COLUMNS SHALL BE CONTIUOUS FROM LOCATION SHOWN TO THE FOUNDATION. BLOCK FLOOR CAVITY SOLID BELOW WOOD COLUMN (WIDTH EQUAL TO WOOD COLUMN) TO ACHIVE CONTINUITY.
15. FINGER JOINTED LUMBER IS PERMISSIBLE AT WALL STUDS ONLY.
16. STRUCTURAL ELEMENTS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING UNLESS METAL OR WOOD SIDE PLATES ARE PROVIDED TO STRENGTHEN THE MEMBER. PENETRATIONS IN FLOOR AND WALL SHEATHING IS PERMITTED PROVIDING THAT 2X BLOCKING IS INSTALLED AT OPENING PERIMETER (FOR OPENINGS LARGER THAT 10" IN LENGTH / DIAMETER) AND WALL FRAMING IS NOT INTERRUPTED.
17. DOUBLE TOP PLATES ((2) 2X) AT ALL WALLS SHALL BE LAPPED AT CORNERS AND INTERSECTIONS AND FASTENED IN ACCOEDANCE TABLE 2304.9.1 FASTENING SCHEDULE IN THE INTERNATIONAL BUILDING CODE, UNLESS NOTED OTHERWISE. OFFSET DOUBLE PLATE END JOINTS 24" (MIN.).
18. WALL SHEATHING NOTED ON STRUCTURAL DRAWINGS SHALL BE ATTACHED DIRECTLY TO THE FACE OF FRAMING MEMBERS. SEE ARCHITECTURAL DRAWINGS FOR ALL NON-STRUCTURAL SHEATHING REQUIREMENTS. WHERE ARCHITECTURAL DRAWINGS REQUIRE ADDITIONAL SHEATHING, SUCH SHEATHING SHALL BE ATTACHED TO THE OUTSIDE FACE OF STRUCTURAL SHEATHING.
19. ANCHOR ALL EXTERIOR AND LOAD BEARING AND SHEAR WALLS TO ANCHOR RODS OR EPOXY ANCHORSPER STRUCTURAL DRAWINGS. OTHER WALLS (WALLS NOT ON THICKENED SLAB OR TURNDOWNS) SHALL BE ANCHORED TO SLAB USING POWER ACTUATED FASTENERS WITH 0.144"Ø AND EMBEDMENT OF ¾" AT 12" O.C. (MAX.).

1

CODE DATA:

Building Code - 2018 INTERNATIONAL BUILDING CODE w/ 2020, 2022 GA. AMENDMENTS
Plumbing Code - 2018 INTERNATIONAL PLUMBING CODE w/ 2020, 2022 GA. AMENDMENTS
Mechanical Code - 2018 INTERNATIONAL MECHANICAL CODE w/ 2020 GA. AMENDMENTS
Fuel Gas Code - 2018 INTERNATIONAL FUEL-GAS CODE w/ 2020, 2022 GA. AMENDMENTS
Electrical Code - 2020 NFPA 70 NATIONAL ELECTRICAL CODE w/ 2021 GA. AMENDMENTS
Fire Safety -2018 INTERNATIONAL FIRE CODE w/ 2020 GA. FIRE COMMISSIONER AMENDMENTS 120-3-3-.04 - 2018 NFPA 101 LIFE SAFETY ODE w/ GA. STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04(72)
Accessibility Code - GA. ACCESSIBILITY CODE CHAPTER 120-3-20(.01-.08) w/ 2020 GA. FIRE COMMISSIONER AMENDMENTS 120-3-3-.08 THROUGH .11 - 2010 ADA STANDARDS FOR ACCESSIBILITY DESIGN
Energy Code - 2015 ENERGY CONSERVATION CODE w/ 2020, 2022 GA. AMENDMENTS

DESIGN LOAD CRITERIA

THIS ANALYSIS IS MADE UTILIZING THE 2018 INTERNATIONAL BUILDING CODE

ROOF JOIST DESIGN LOADS	
LIVE LOAD	20 psf
DEAD LOAD	15 psf
TOTAL LOAD	35 psf
UPLIFT LOAD (NET)	10 psf
SNOW LOADS	
Pg	5 psf
WIND LOADS	
BASIC WIND SPEED (3 SEC GUST)	115 mph
WIND EXPOSURE	B
IMPORTANCE FACTOR	1.0
INTERNAL PRESSURE COEFFICIENT (GCpi)	± .18

WIND PRESSURES ON COMPONENTS AND CLADDING (psf)
ROOF (= 100 SF)

ZONE 1		ZONE 2	
10	-16.5	10	-19.5
ZONE 3			
10	-19.5		

WALL (AREA=20 SF)

ZONE 4		ZONE 5	
15.3	-16.8	15.3	-18.7

SEISMIC LOADS	
OCCUPANCY CATEGORY	II
SITE CLASS	D
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
Sds	.24g
Sdi	.12g
DESIGN CATEGORY	C
BASIC SYSTEM (TRAVERSE)	WOOD BEARING WALL
RESISTING SYSTEM (TRAVERSE)	BEARING WALL WITH LIGHT FRAMED SHEARWALLS
R	3
BASE SHEAR (TRAVERSE)	5k
BASIC SYSTEM (LONGITUDINAL)	WOOD BEARING WALL
RESISTING SYSTEM (LONGITUDINAL)	BEARING WALL WITH LIGHT FRAMED SHEARWALLS
R	3
BASE SHEAR (LONGITUDINAL)	3k

ARCHITECT OF RECORD:

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SEAL:

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4095 Pleasandale rd.
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04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS

DRAWN BY:

CHK'D BY:

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

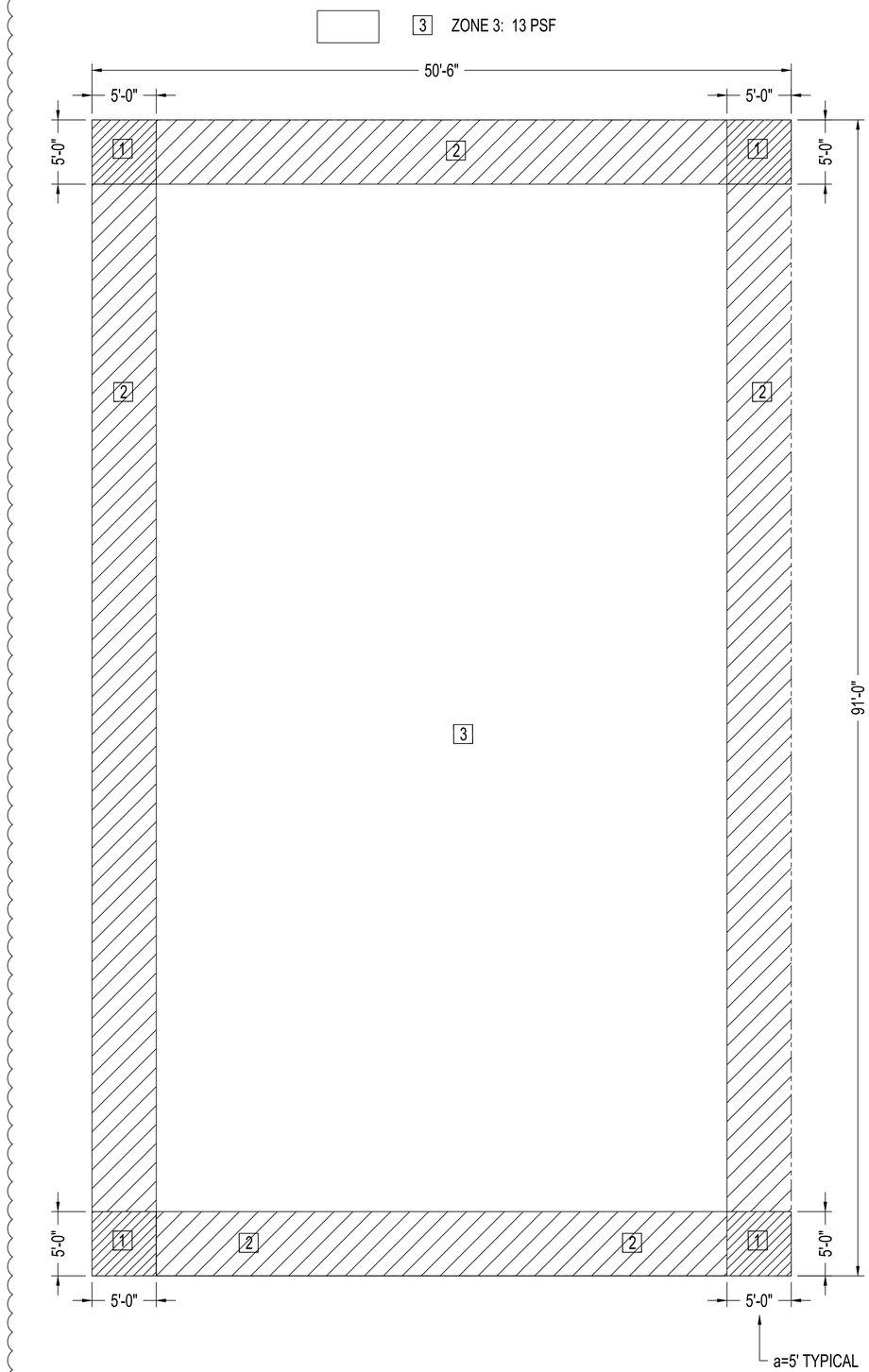
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

STRUCTURAL NOTES

PROJECT NO: 21035

S000



NET UPLIFT FORCES

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

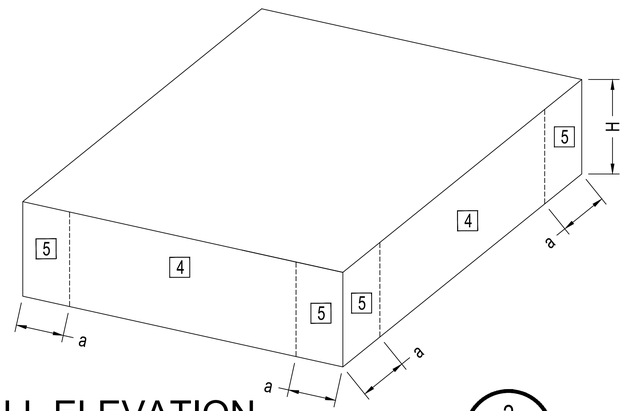
1 / S001

COMPONENTS AND CLADDING
EXTERNAL PRESSURE LOADS (PSF)

IBC 2018: LOCATION PER ASCE 7-16: FIGURE 30.3-1												
a = 5 ft							OVERHANGS			WALLS		
EFFECTIVE WIND AREA ft^2	1	2	3				1	2	3	4	5	
<10	16 -37.3	16 -49.1	16 -67.0				16 -37.3	16 -49.1	16 -67.0	31 -31.8	31 -41.4	
20	16 -34.8	16 -46.0	16 -60.7				16 -36.7	16 -44.9	16 -59.6	30 -32.3	30 -38.7	
50	16 -31.4	16 -41.8	16 -52.3				16 -35.9	16 -39.4	16 -49.9	28 -30.4	28 -35.0	
>100	16 -29.1	16 -38.6	16 -46.0				16 -35.3	16 -35.1	16 -42.5	27 -29.1	27 -32.3	
>500	16 -25.2	16 -31.3	16 -31.3				16 -23.4	16 -25.4	16 -25.4	23 -25.9	23 -25.P	

NOTES

1. a=5' SEE 1/S001 FOR LOCATION OF a-ZONES. WALL a-ZONE LOCATIONS TO MATCH ROOF a-ZONES.
2. POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR COMPONENT FACE, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING OF COMPONENT FACE.
3. EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.
4. FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE NEXT LOWEST TABULATED EFFECTIVE AREA.
5. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OF ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATION.



WALL ELEVATION

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

2 / S001

1

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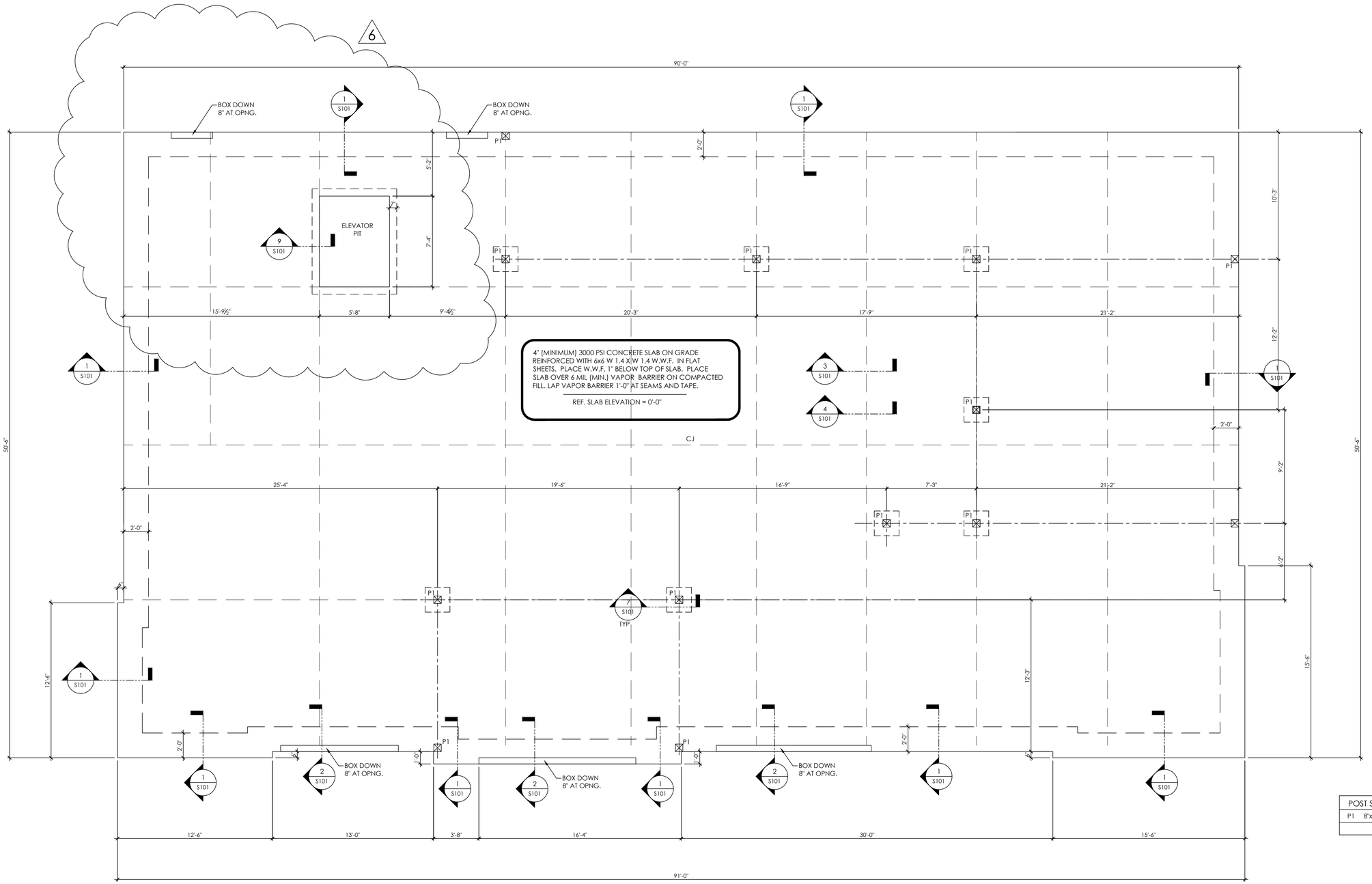
SHEET TITLE:

COMPONANTS & CLADDING NOTES

PROJECT NO: 21035

S001



POST SCHEDULE		
P1	8"x 8"	2YP

1 S100 FOUNDATION PLAN
1/4"=1'-0"

1

NOTICE TO CONTRACTOR: NO PRIOR GEOTECHNICAL INVESTIGATION WAS PERFORMED PRIOR TO THE ISSUANCE OF THESE DRAWINGS. THE STRUCTURAL ENGINEER-OF-RECORD (SEOR) HAS MADE ASSUMPTIONS REGARDING THE EXISTING SOIL PARAMETERS BASED ON PRIOR EXPERIENCE ON SIMILAR PROJECTS AND THE LIMITED SITE INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE ISSUED. THIS DESIGN ASSUMES AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF, AND ASSUMES SHALLOW FOUNDATIONS ARE GEOTECHNICALLY VIABLE FOR THIS LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL ASSUMPTIONS AS STATED ABOVE AND NOTIFYING THE SEOR OF ANY VARIANCES FROM THESE ASSUMPTIONS.

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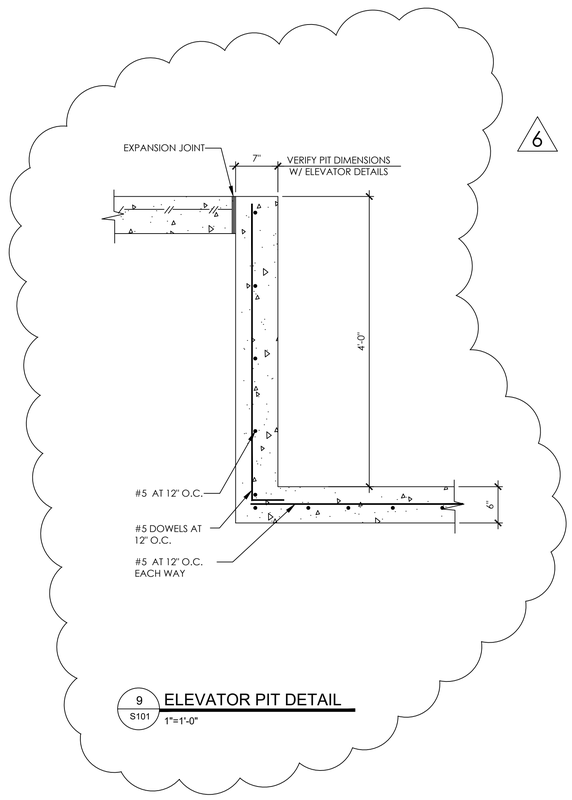
SHEET TITLE:

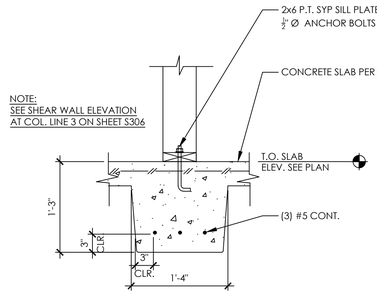
FOUNDATION PLAN

PROJECT NO: 21035

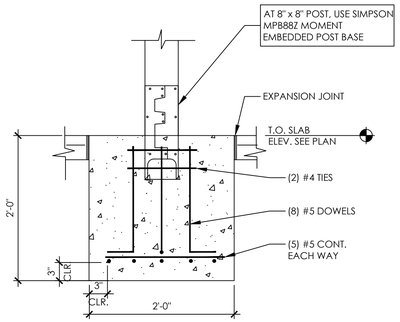
S100



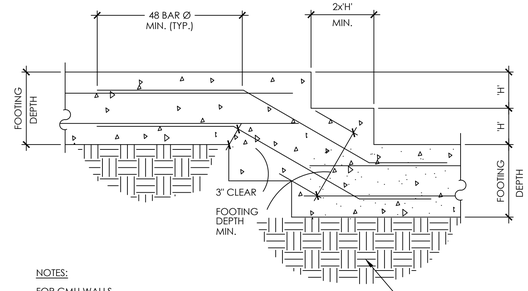
9 S101 ELEVATOR PIT DETAIL
1"=1'-0"



8 S101 THICKENED SLAB @ SHEAR WALL
1"=1'-0"



7 S101 INTERIOR COLUMN FOOTING
1"=1'-0"

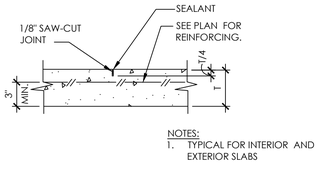


NOTES:

FOR CMU WALLS
'H' = 1'-4" MAXIMUM

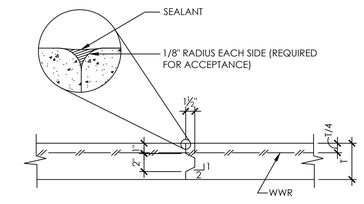
REINFORCING SHALL MATCH SIZE AND SPACING OF REINF. IN ADJACENT FOOTING SECTION (MIN. REINF. (3) #5 TOP AND BOTTOM)

6 S101 STEPPED FOOTING DETAIL
1"=1'-0" (WHERE REQUIRED)



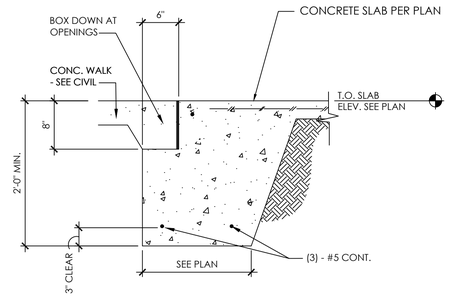
NOTES:
1. TYPICAL FOR INTERIOR AND EXTERIOR SLABS

4 S101 TYP CONTROL JOINT
1"=1'-0"

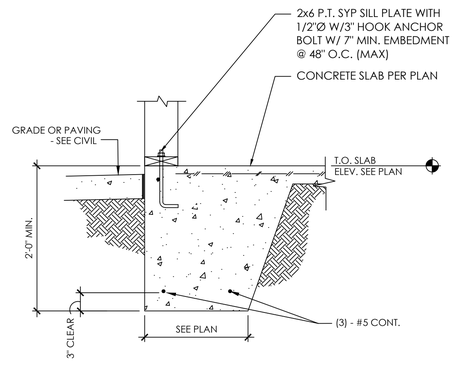


NOTES:
1. TYPICAL FOR INTERIOR AND EXTERIOR SLABS
2. SLAB REINFORCING SHALL BE TERMINATED AT JOINT. DO NOT PLACE REINFORCEMENT UNDER JOINT.

3 S101 TYP CONSTRUCTION JOINT
1"=1'-0"



2 S101 FOOTING @ FULL HT. OPNGS.
1"=1'-0"



1 S101 TYP. WALL FOOTING
1"=1'-0"

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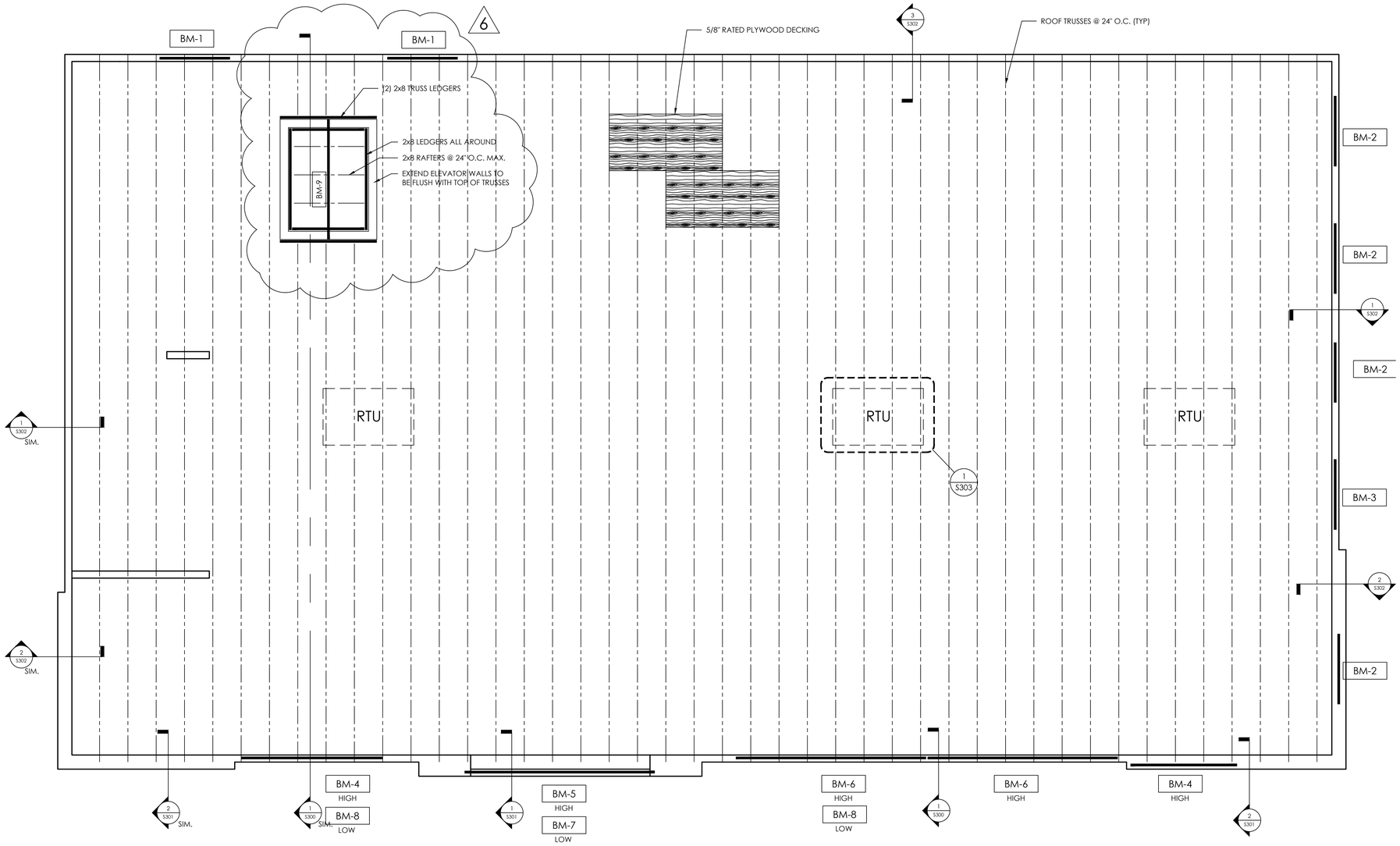
Doraville, GA 30340

SHEET TITLE:

FOUNDATION
DETAILS

PROJECT NO: 21035

S101



1 A100 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

TRUSS FRAMING

LUMBER SPECIFICATIONS

A. TOP AND BOTTOM CHORDS TO BE #2 MC KD SELECT DENSE STRUCTURAL GRADE SOUTHERN PINE.

B. WEB MEMBERS TO BE #3 MC KD SELECT DENSE STRUCTURAL GRADE SOUTHERN PINE.

C. PROVIDE 2x4 CROSS BRACING OR BRIDGING AT ALL 1/3 POINTS OF THE TRUSS SPAN FOR BOTH TOP AND BOTTOM CHORDS.

D. STEEL TRUSS GUSSET PLATE SHALL BE EITHER NAILED OR PRESS-IN TYPE COMPLYING w/ STANDARDS OF THE TRUSS PLATE INSTITUTE.

E. THE ROOF TRUSS STRUCTURAL DESIGN IS CALCULATED BASED ON THE DESIGN LOADS SHOWN ON SHEET S001. THE CONTRACTOR SHALL SUBMIT TRUSS SHOP DRAWINGS, INCLUDING STRUCTURAL CALCULATIONS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE WHERE THE SITE IS LOCATED, TO THE ARCHITECT FOR REVIEW. SEALED DRAWINGS AND CALCULATIONS SHALL BE AVAILABLE ON JOB SITE.

ROOF FRAMING PLAN NOTES

1. FOR STRUCTURAL NOTES SEE SHEET S000 & S001
2. G.C. TO COORDINATE MECHANICAL OPENING SIZES AND LOCATIONS.
3. ALL DIMENSIONS ARE TO FACE OF STUD FRAMING U.N.O.
4. FOR SHEARWALL LOCATIONS SEE SHEET S304.
5. USE ONE SIMPSON H2.5 AT EACH END OF MAIN ROOF TRUSSES - ATTACH TO DBL. TOP PLATE AT WALL LOCATIONS.

SHEET KEYED NOTES

1. ROOF SCUTTLE LOCATION WILL DETERMINE IMMEDIATE AREA TRUSS SPACING.
2. PROVIDE 4x4 BLOCKING W/ HU44TF HANGER EACH END UNDER CRIPPLE WALL FRAMING FOR PARAPET RETURN ABOVE
3. LOAD BEARING POST AND BEAM LINE.

(3) 1 3/4" x 11 5/8" LVL

LINTEL SCHEDULE

MARK	BOTTOM ELEVATION	LOCATION	SIZE
BM-1	+7'-1"	REAR WALL	
BM-2	+21'-5"	RIGHT WALL	(3) 1 3/4" x 9 1/2" LVL
BM-3	+20-8"	RIGHT WALL	(3) 1 3/4" x 9 1/2" LVL
BM-4	+20-10"	FRONT WALL - HIGH	(3) 2x8 #2 SYP
BM-5	+23'-10"	FRONT WALL - HIGH	(3) 1 3/4" x 11 5/8" LVL
BM-6	+20-10"	FRONT WALL - HIGH	(3) 1 3/4" x 9 1/2" LVL
BM-7	+12'-2"	FRONT WALL - LOW	(3) 1 3/4" x 11 5/8" LVL
BM-8	+12'-2"	FRONT WALL - LOW	(3) 1 3/4" x 9 1/2" LVL
BM-9	+26'-1"	ELEVATOR LIFT BEAM	W8x10

ARCHITECT OF RECORD:

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GEORGIA REGISTERED ARCHITECT
NO. 28155
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DRAWN BY:

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PROJECT DESCRIPTION:

PROPOSED TWO STORY
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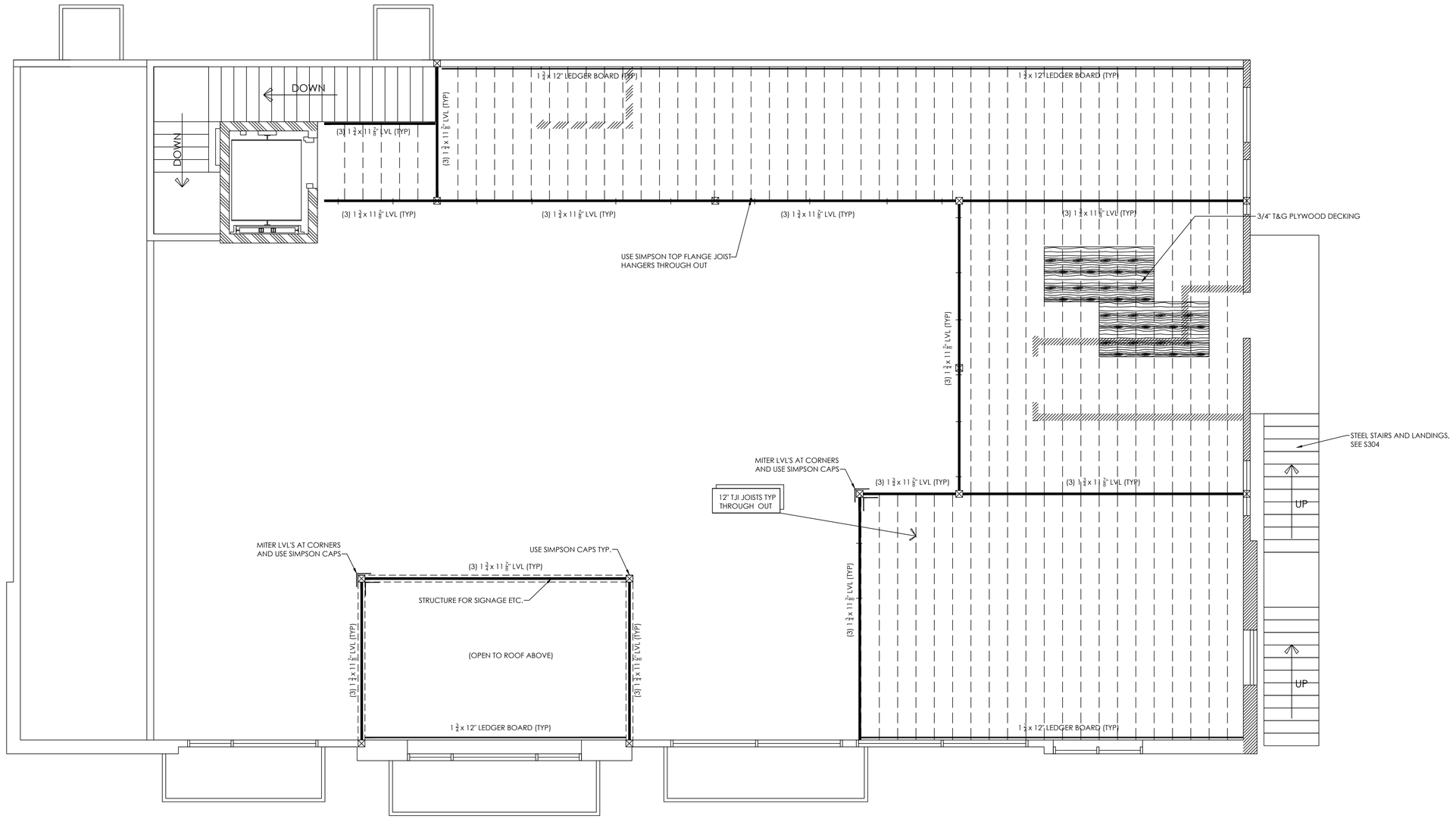
C-STORE /
RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

ROOF
FRAMING
PLAN

PROJECT NO: 21035

S200



1 / S201 SECOND FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"

ARCHITECT OF RECORD:

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4/26/2022

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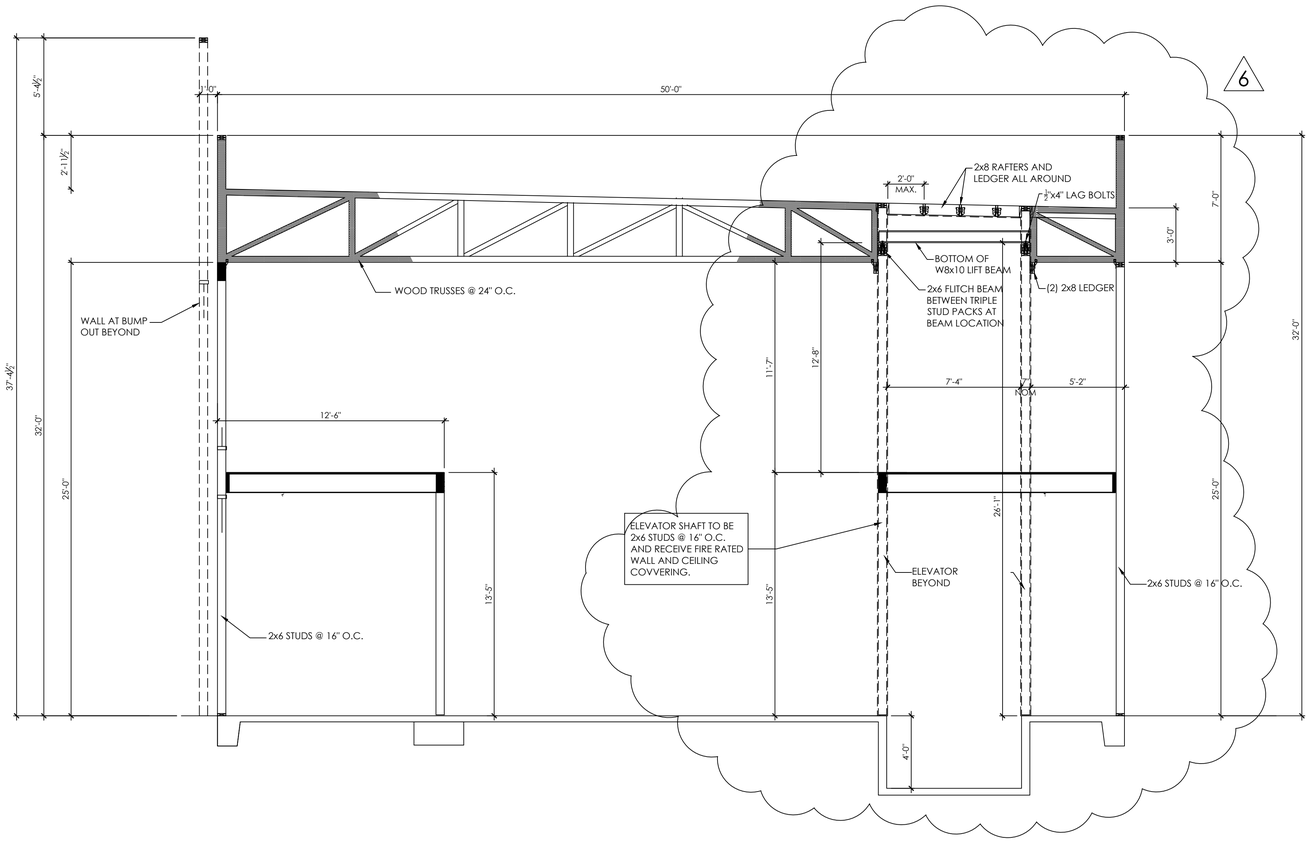
Doraville, GA 30340

SHEET TITLE:

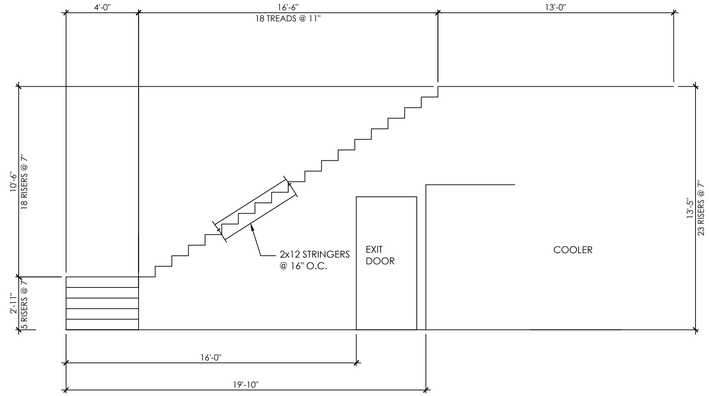
SECOND FLOOR FRAMING PLAN

PROJECT NO: 21035

S201



1 / S300 BUILDING CROSS SECTION
SCALE: 1/4" = 1'-0"



2 / S300 STAIRWAY DESIGN
SCALE: 1/4" = 1'-0"

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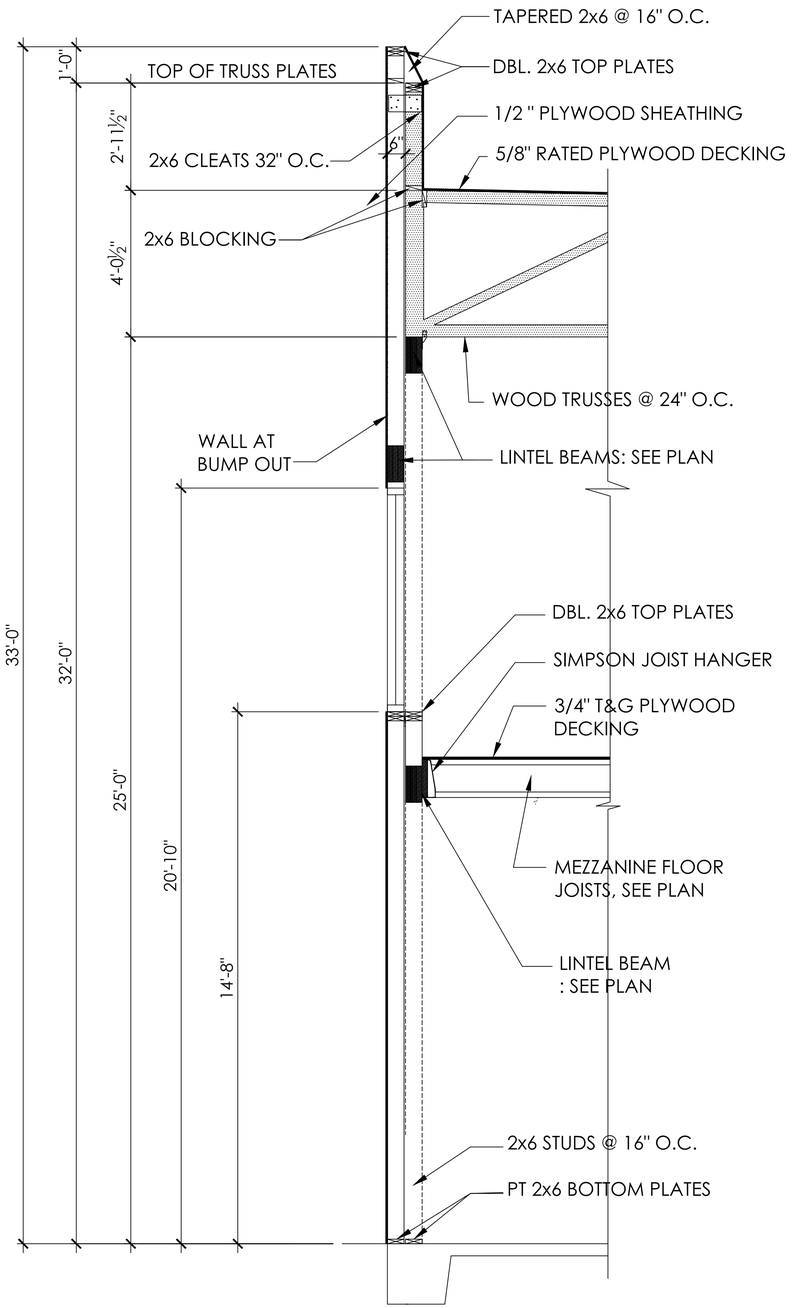
SHEET TITLE:

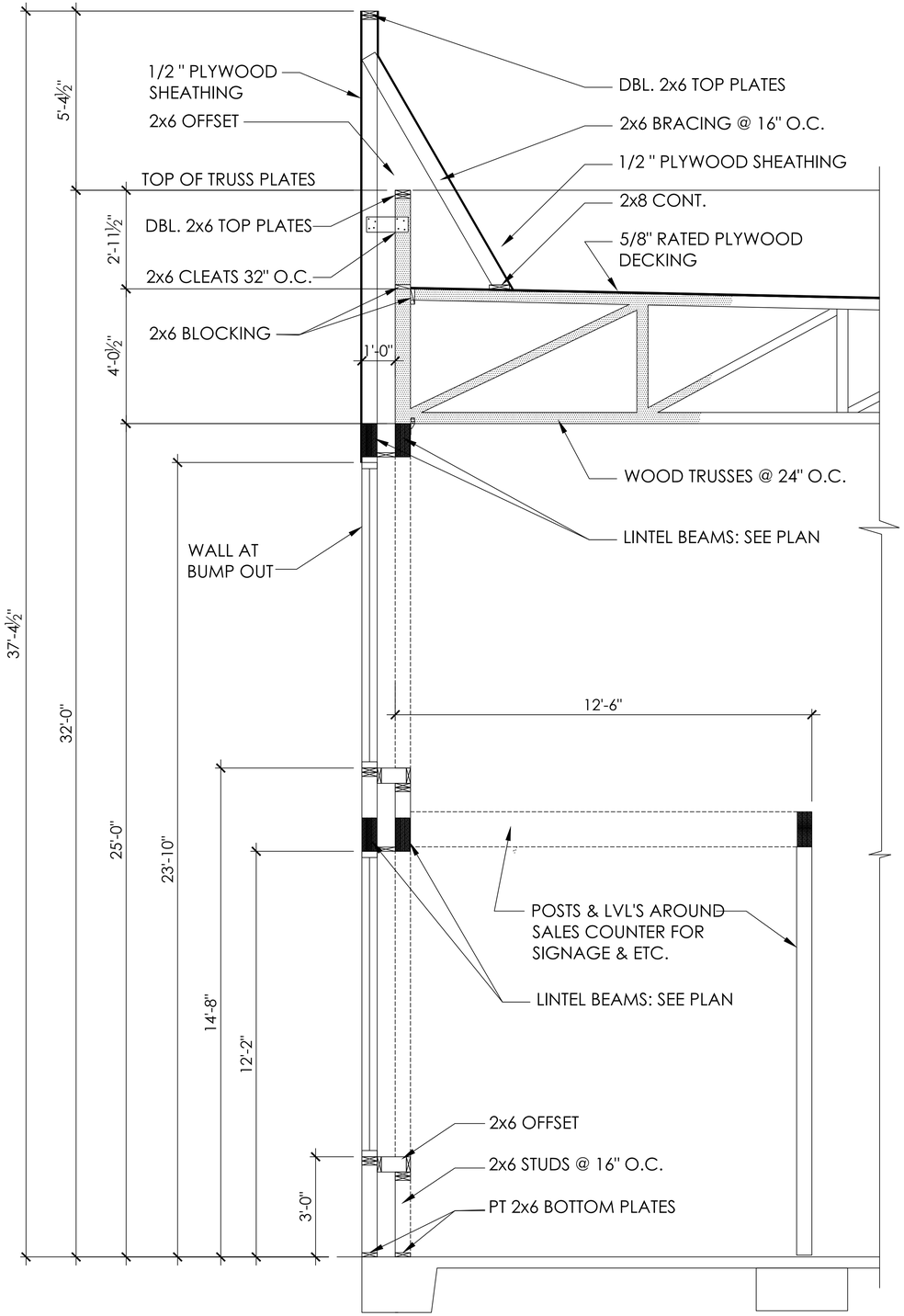
BUILDING SECTION

PROJECT NO: 21035

S300



2 S301 FRONT WALL SECTION
SCALE: 1/2" = 1'-0"



1 S301 FRONT WALL SECTION
SCALE: 1/2" = 1'-0"

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

Doraville, GA 4095 Pleasantdale Rd.
GEORGIA REGISTERED NO. 25155 PROFESSIONAL ARCHITECT DAVID A. WHITE
4/26/2022

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ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

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04.28.22	RELEASED FOR CONSTRUCTION
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09.08.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS
04.03.23	REV. 4 PER COMMENTS
05.31.23	REV. 5 CORRECTIONS

DRAWN BY:

CHK'D BY:

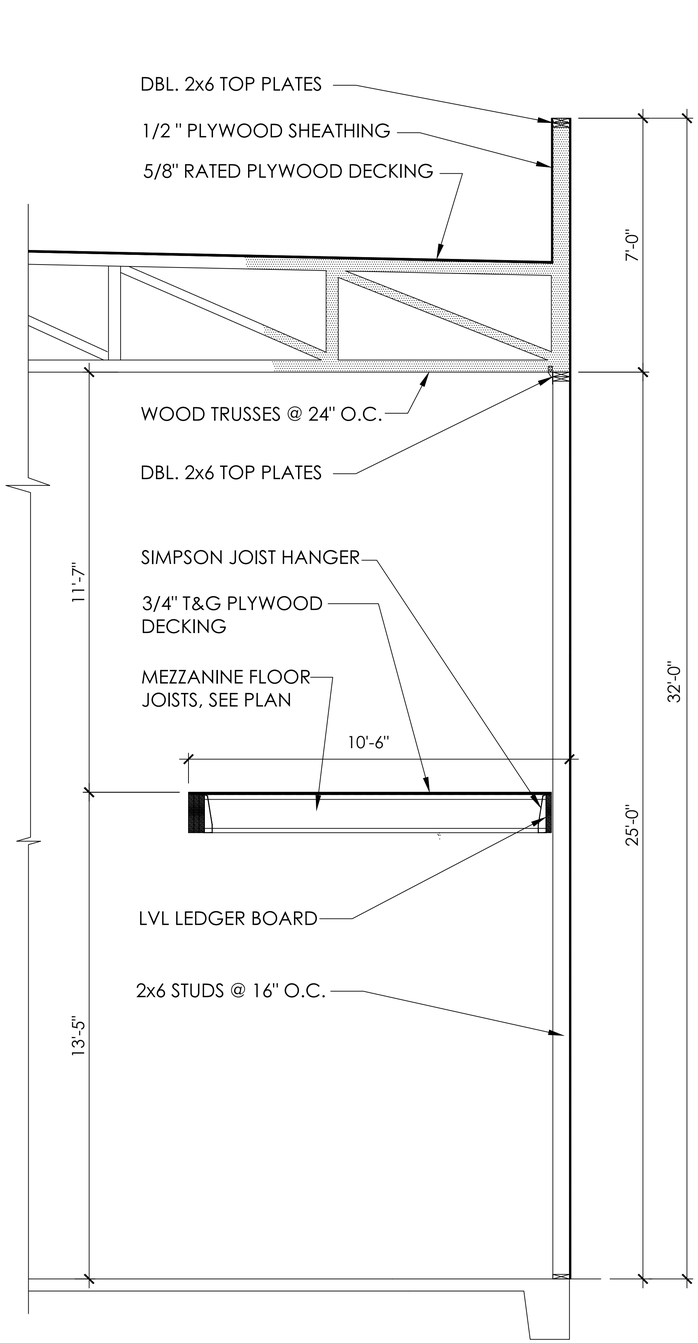
PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

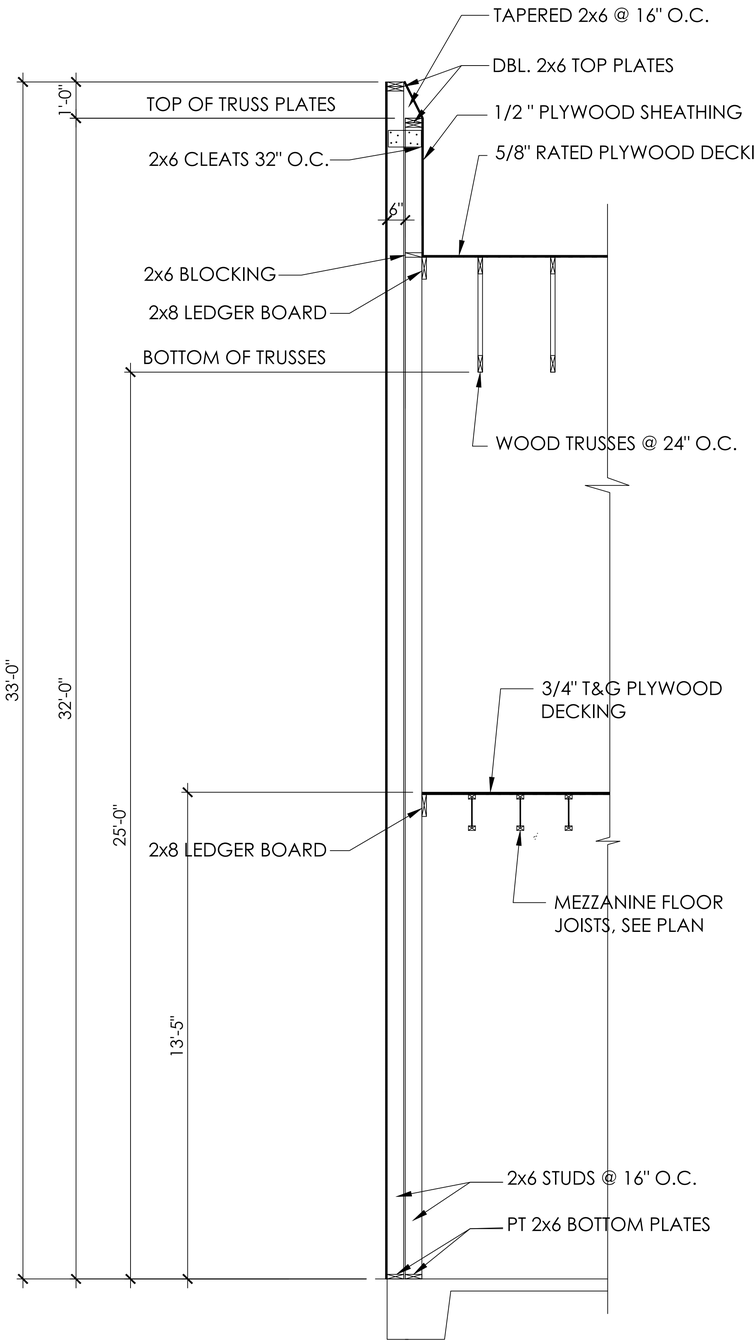
SHEET TITLE:
BUILDING SECTION

PROJECT NO: 21035

S301



3 S302 REAR WALL SECTION
SCALE: 1/2" = 1'-0"



2 S302 SIDE WALL SECTION
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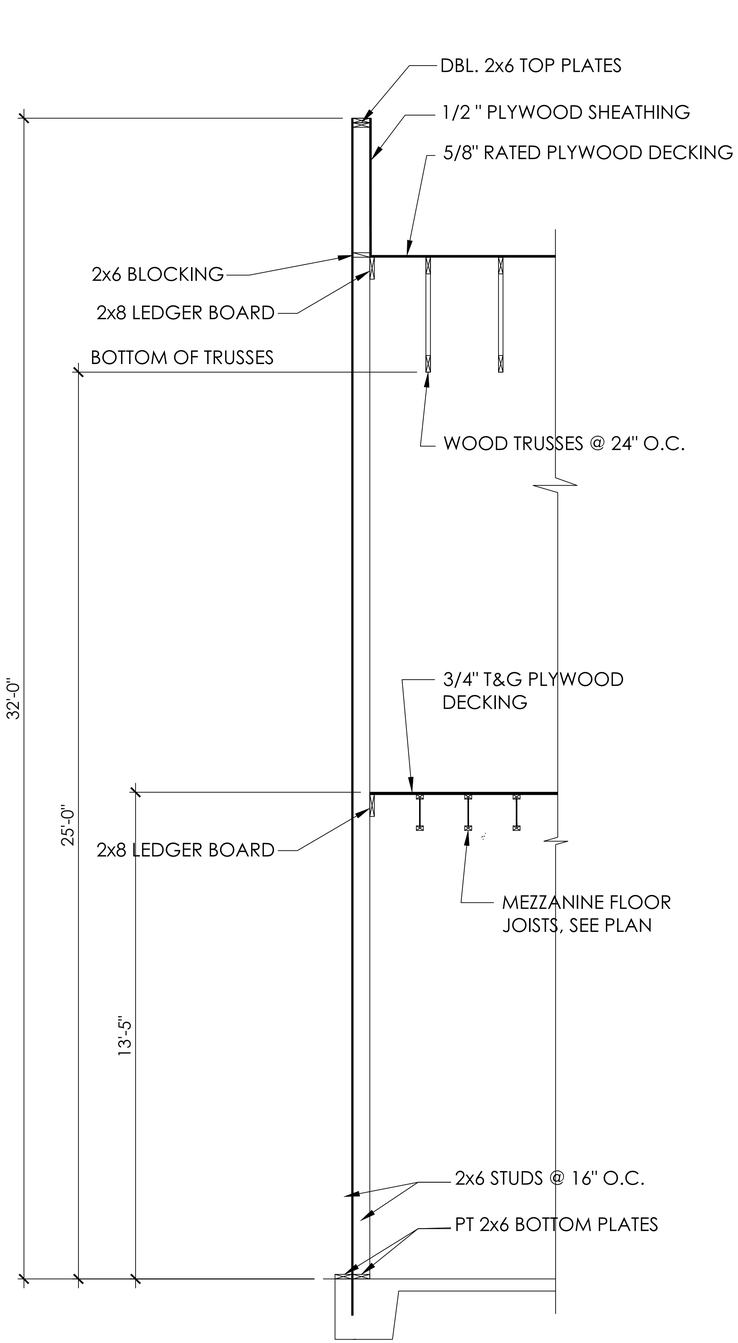

1 S302 SIDE WALL SECTION
SCALE: 1/2" = 1'-0"

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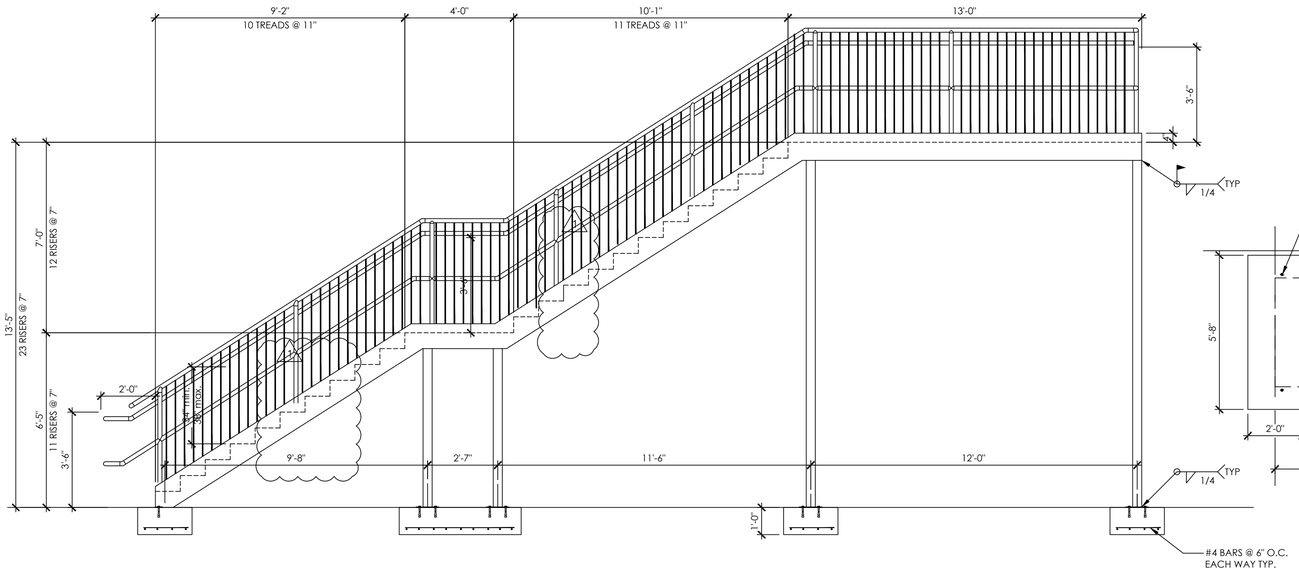
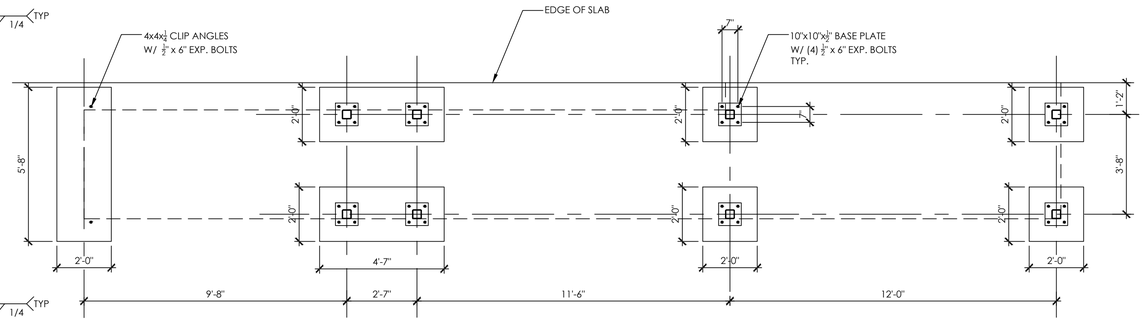
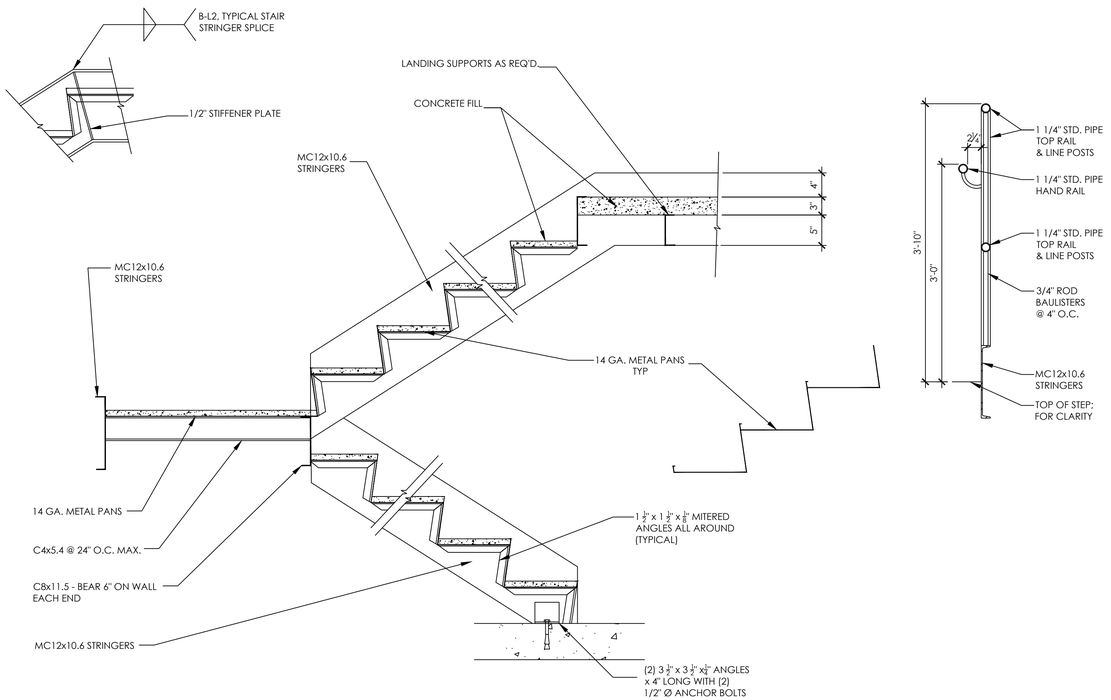


3 S303 STEEL STAIR DETAILS
SCALE: 3/8" = 1'-0"

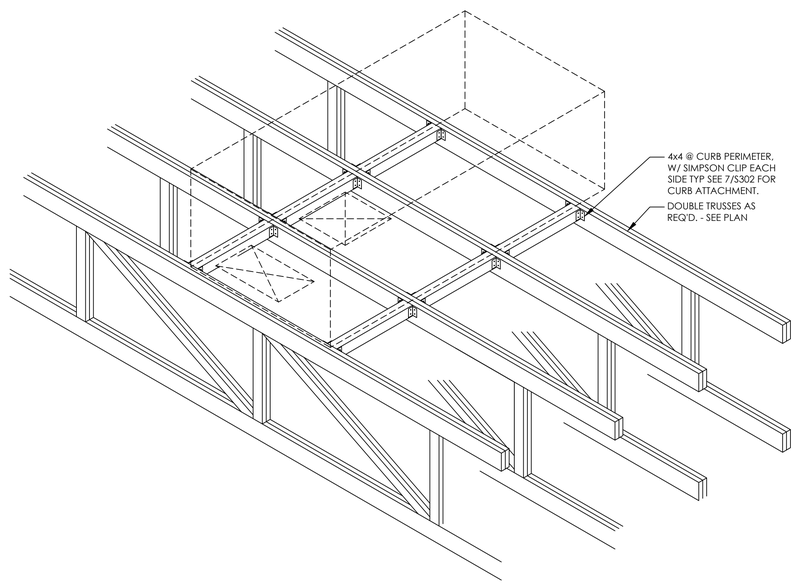


4 S303 STEEL STAIR FOUNDATION PLAN
SCALE: 3/8" = 1'-0"



NOTE: SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS

2 S303 STEEL STAIR DETAILS
SCALE: NTS



1 S303 FRAMING @ RTU OPENINGS
SCALE: NTS

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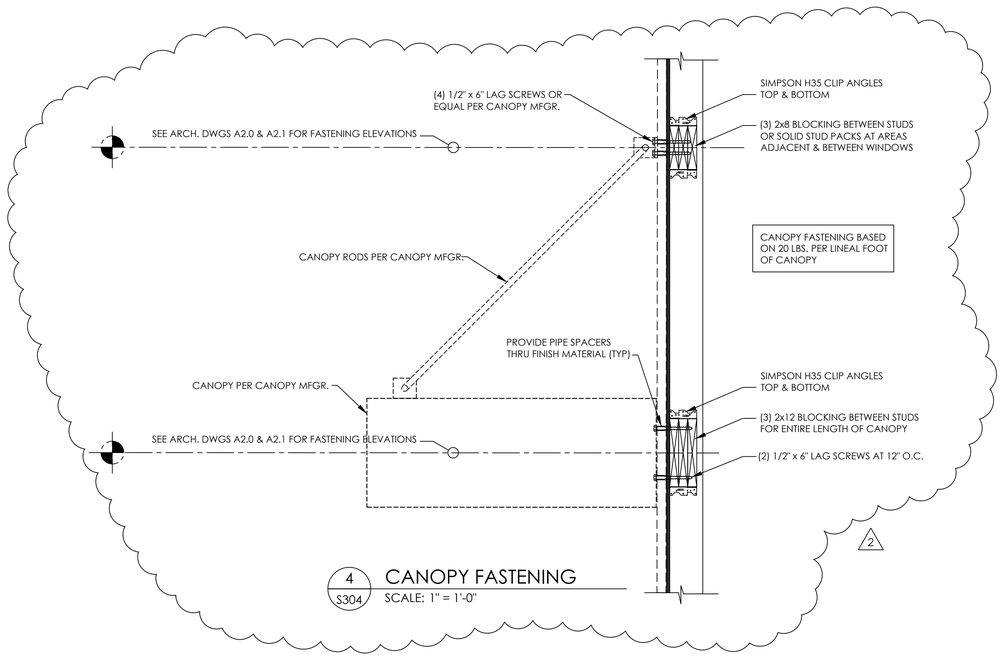
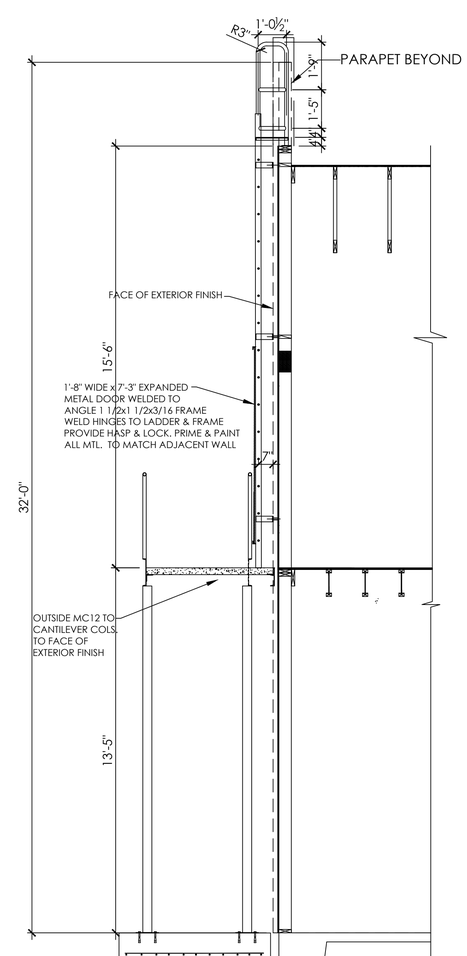
SHEET TITLE:
MISC.
DETAILS

PROJECT NO: 21035

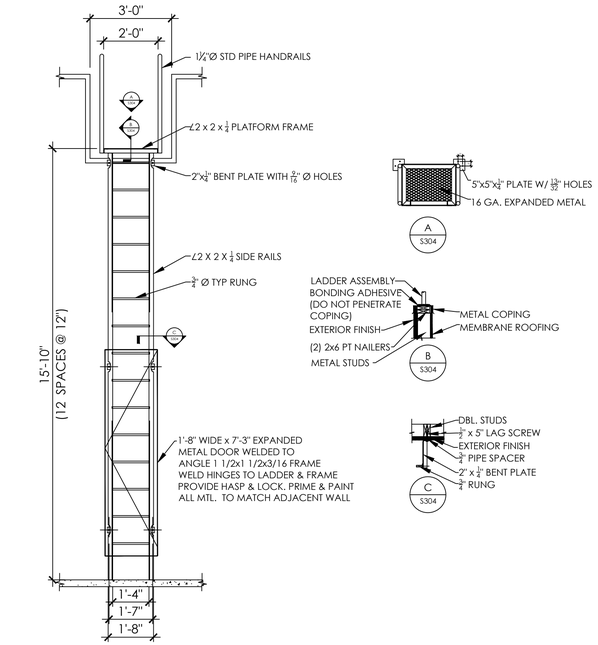
S303



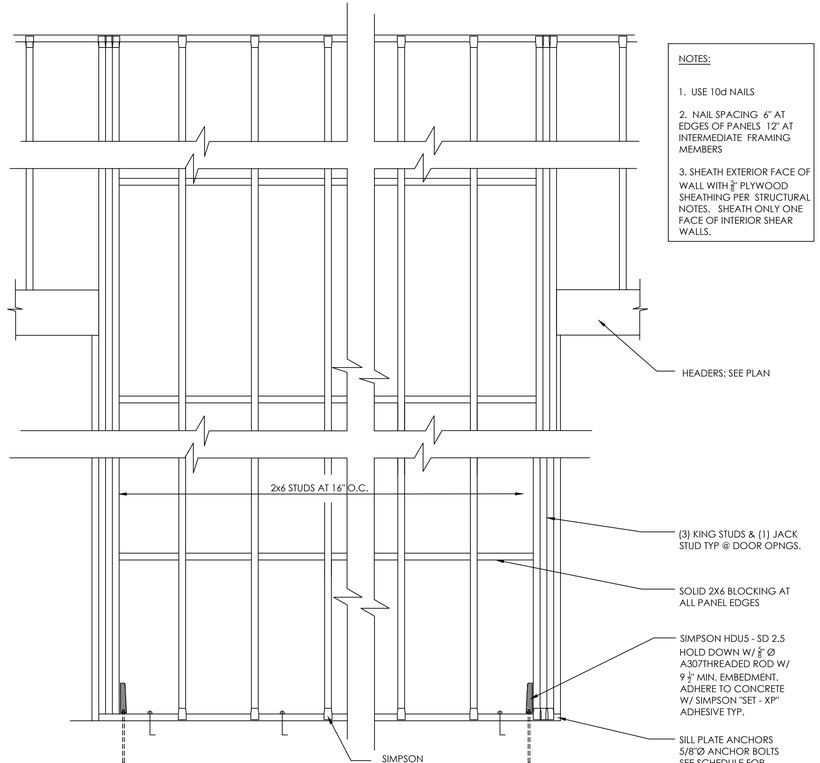
4 S304 CANOPY FASTENING
SCALE: 1" = 1'-0"



1 S304 LADDER DETAILS
SCALE: 3/8" = 1'-0"



2 S304 LADDER ELEVATION
SCALE: 3/8" = 1'-0"



3 S304 TYP SHEARWALL
SCALE: 3/4" = 1'-0"

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HVAC LEGEND

T	THERMOSTAT
S	TEMPERATURE SENSOR
TC	TIME CLOCK
SD	SMOKE DETECTOR
	SUPPLY AIR REGISTER
	RETURN AIR REGISTER & EXHAUST REGISTER
	SIDEWALL SUPPLY AIR REGISTER
	SIDEWALL RETURN AIR REGISTER
RR	RISE IN DUCTWORK ELEVATION
DR	DROP IN DUCTWORK ELEVATION
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
MOD	MOTOR OPERATED DAMPER
SP	STATIC PRESSURE SENSOR IN DUCT
BD	BALANCING DAMPER
	FLEXIBLE DUCTWORK
	FLEXIBLE CONNECTION
	LINEAR DIFFUSER
GC	GAS COCK
G	GAS
D	CONDENSATE DRAIN
A / NN / BB	DIFFUSER TYPE / AIRFLOW, CFM / NECK SIZE — SUPPLY AIR DIFFUSER
A / NN / BB	DIFFUSER TYPE / AIRFLOW, CFM / NECK SIZE — RETURN AIR GRILLE/REGISTER

DESIGN CONDITIONS

SITE LOCATION:

DORAVILLE, GA 30340
34.58' LAT., 85.17' LONG.
689 FEET ELEVATION
ASHRAE 90.1–2013 CLIMATE ZONE 3A

DESIGN CONDITIONS:

17.7°F WINTER DESIGN DRY BULB (ASHRAE 99.6%)
94.5°F DRY BULB AND 75.0°F MEAN COINCIDENT WET BULB SUMMER DESIGN (ASHRAE .4%)

70°F WINTER INDOOR DESIGN DRY BULB (HEATING)
75°F DRY BULB AND 50% RH INDOOR DESIGN (COOLING)

CALCULATIONS BASED ON ASHRAE DESIGN CRITERIA AND CALCULATION METHODOLOGY.

MECHANICAL DRAWING INDEX

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BD	BALANCING DAMPER
CAP	CAPACITY
CD	CEILING DIFFUSER
CENT	CENTRIFUGAL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
COND	CONDENSING
COP	COEFFICIENT OF PERFORMANCE
CU	CONDENSING UNIT
D	DRAIN
DB	DRY BULB
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
F	FAHRENHEIT
F	FAN
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FT	FEET
G	GAS
GFU	GAS FIRED UNIT
H	HOOD
HC	HEATING CAPACITY
HP	HEAT PUMP
HP	HORSEPOWER
HT	HEIGHT
IH	INFRARED HEATER
KW	KILOWATT
L	LENGTH
MAX	MAXIMUM
MBH	THOUSAND BTUH
MIN	MINIMUM
MOD	MOTOR OPERATED DAMPER
OA	OUTSIDE AIR
RA	RETURN AIR
RAR	RETURN AIR REGISTER
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SC	SENSIBLE CAPACITY
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SP	STATIC PRESSURE
SYS	SYSTEM
T	THERMOSTAT
TC	TOTAL CAPACITY
TEMP	TEMPERATURE
TYP	TYPICAL
UH	UNIT HEATER
V	VOLTS
W	WIDTH
WB	WET BULB
WC	WATER COLUMN

TEST AND BALANCE:

1. TOTAL SYSTEM BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE 5TH EDITION OF THE AABC NATIONAL STANDARDS, 1989 FOR TOTAL SYSTEM BALANCE, AND IN ACCORDANCE WITH THE SCOPE OF WORK DEFINED BY THE CONTRACT DOCUMENTS.
2. TESTING AND BALANCE AGENCY AS PART OF ITS CONTRACT SHALL ACT AS AN AUTHORIZED INSPECTION AGENCY, RESPONSIBLE TO THE OWNER, AND SHALL, DURING THE TEST AND BALANCE, LIST SYSTEMS THAT ARE INSTALLED INCORRECTLY, REQUIRE CORRECTION, OR HAVE NOT BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS.
3. TESTING AND BALANCING SHALL NOT BEGIN UNTIL ALL SYSTEMS HAVE BEEN COMPLETED AND ARE IN FULL WORKING ORDER. THE MECHANICAL CONTRACTOR SHALL PUT ALL HEATING VENTILATING, AND AIR CONDITIONING EQUIPMENT INTO FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING.

SHEET METAL WORK - GENERAL:

1. DUCTWORK, EXCEPT WHERE OTHERWISE SPECIFIED HEREIN, AND APPARATUS CASINGS SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN ACCORDANCE WITH SMACNA HVAC DUCT.

DUCT INSULATION:

1. DUCT INSULATION SHALL BE 1" THICK, 1–1/2" LB./CUBIC FOOT DENSITY FIBER GLASS INSULATION WITH THERMOSETTING RESIN AND VAPOR BARRIER, "K" VALUE NOT TO EXCEED 0.25.
2. INSULATION AND ADHESIVE SHALL HAVE A COMPOSITE FLAME SPREAD RATING 25 AND A COMPOSITE SMOKE–DEVELOPED RATING OF NOT MORE THAN 50.
3. INSULATION SHALL COMPLY WITH ASTM C553 AND BE PROVIDED WITH FACTORY–APPLIED FSK JACKET.
4. SECURE INSULATION WITH ADHESIVE AND STICK PINS.
5. PROVIDE INSULATION ON SUPPLY AIR DUCTWORK.

REFRIGERANT PIPING INSULATION:

1. INSULATE THE SUCTION LINE WITH RIGID 1" POLYURETHANE FOAM.

DUCT LINER:

1. DUCT LINER SHALL BE 1–1/2" THICK, 1–1/2" LB./CUBIC FOOT DENSITY FIBER GLASS INSULATION WITH NEOPRENE FACING. MINIMUM INSTALLED R–VALUE = 5.
2. LINER, FACING, AND ADHESIVE SHALL HAVE A COMPOSITE FLAME SPREAD RATING OF 25 AND A COMPOSITE SMOKE–DEVELOPED RATING OF NOT MORE THAN 50.
3. LINER SHALL MEET EROSION TEST DESCRIBED IN UL 181–1981.

VOLUME DAMPERS:

1. DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 2005 EDITION.
2. PROVIDE SINGLE–BLADE DAMPER UP TO SIX (6) INCHES IN WIDTH. PROVIDE MULTIBLADE OPPOSED BLADE DAMPER ABOVE SIX (6) INCHES IN WIDTH.
3. DAMPER AND BEARINGS SHALL BE SIMILAR TO VENTLOCK NO. 609; DIAL REGULATOR SHALL BE SIMILAR TO VENTLOCK NO. 637, 638, AND 639 WITH COLLAR TO CLEAR INSULATION THICKNESS INSTALLED ON DUCTWORK.

WARRANTY:

1. ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A ONE (1) YEAR WARRANTY FROM THE TIME OF FINAL ACCEPTANCE UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENT. THE WARRANTY SHALL COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING ANY ADDITIONAL COST TO THE CONTRACT.

MECHANICAL SPECIFICATIONS:

FAN (EF) :

1. FAN SHALL BE CEILING MOUNTED, DIRECT DRIVEN, CENTRIFUGAL EXHAUST FAN.
2. FAN SHALL BE MANUFACTURED AT AN ISO 9001 CERTIFIED FACILITY. FAN SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL 705) AND UL LISTED FOR CANADA (CUL 705). FAN SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE.
3. THE FAN WHEEL HOUSING AND INTEGRAL OUTLET DUCT SHALL BE INJECTION MOLDED FROM A SPECIALLY ENGINEERED RESIN EXCEEDING UL REQUIREMENTS FOR SMOKE AND HEAT GENERATION. THE OUTLET DUCT SHALL HAVE PROVISION FOR AN ALUMINUM BACKDRAFT DAMPER WITH CONTINUOUS ALUMINUM HINGE ROD. THE INLET BOX SHALL BE MINIMUM 22 GAUGE GALVANIZED STEEL. MOTOR SHALL BE ISOLATION MOUNTED TO A ONE PIECE GALVANIZED STAMPED STEEL INTEGRAL MOTOR MOUNT/INLET. A FIELD WIRING COMPARTMENT WITH DISCONNECT RECEPTACLE SHALL BE STANDARD. TO ACCOMMODATE DIFFERENT CEILING THICKNESS, AN ADJUSTABLE PREPUNCHED MOUNTING BRACKET SHALL BE PROVIDED. A WHITE, HIGH IMPACT STYRENE INJECTION MOLDED GRILL SHALL BE PROVIDED AS STANDARD. UNIT SHALL BE DESIGNED WITH PROVISION FOR FIELD CONVERSION FROM CEILING TO IN–LINE. UNIT SHALL BE SHIPPED IN ISTA CERTIFIED TRANSIT TESTED PACKAGING.
4. WHEEL SHALL BE CENTRIFUGAL FORWARD CURVED TYPE, INJECTION MOLDED OF POLYPROPYLENE RESIN. WHEEL SHALL BE BALANCED IN ACCORDANCE WITH AMCA STANDARD 204–05, BALANCE QUALITY AND VIBRATION LEVELS FOR FANS.
5. MOTOR SHALL BE OPEN DRIP PROOF TYPE WITH PERMANENTLY LUBRICATED BEARINGS AND INCLUDE IMPEDANCE OR THERMAL OVERLOAD PROTECTION AND DISCONNECT PLUG. MOTOR SHALL BE FURNISHED AT THE SPECIFIED VOLTAGE.

ROOF CURBS:

1. FACTORY FABRICATED ROOF CURBS SHALL BE CONSTRUCTED OF ALUMINUM AND SHALL BE 14" HIGH. CURBS SHALL BE CANTED, INSULATED TYPE AND SHALL BE FIELD–FLASHED TO MAKE WATERTIGHT. FIELD FLASHING SHALL EXTEND UP THE SIDES OF THE CURB WITH WASHERS AND SHEET METAL SCREWS PLACED NOT MORE THAN 12" ON CENTERS BUT IN NO CASE USING LESS THAN TWO (2) SCREWS PER SIDE. CURB SHALL HAVE 2" THICK RIGID INSULATION; INSULATION EXPOSED TO THE RETURN AIR PLENUM SHALL HAVE A SMOKE DEVELOPED RATING NOT TO EXCEED 25 AND A FLAME SPREAD RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84. WOOD NAILER STRIPS ARE REQUIRED. COORDINATE THE INSTALLATION OF THE ROOF CURBS WITH THE ROOF INSTALLER.

ROOFTOP UNITS:

1. PACKAGED, AIR–COOLED, CONSTANT VOLUME DRAW–THROUGH TYPE, COMPLETE WITH HERMETIC COMPRESSORS, CYLINDER UNLOADERS, SUCTION AND DISCHARGE SERVICE VALVES, SPRING VIBRATION ISOLATORS, COMPRESSOR AMBIENT LOCKOUT, CRANKCASE HEATERS, OIL SIGHT GLASS, REFRIGERANT SIGHT GLASS, REFRIGERANT DRIER, THERMOSTATIC EXPANSION VALVES, PRESSURE RELIEF VALVE OR FUSIBLE PLUG, TIME DELAY BETWEEN SUCCESSIVE STARTS OF EACH COMPRESSOR, SUCTION ACCUMULATOR, HOT–GAS DISCHARGE MUFFLER, MANUALLY RESET LOW OIL PRESSURE CUTOUT FOR EACH COMPRESSOR, LIQUID LINE VALVE FOR ISOLATING REFRIGERANT CHARGE IN CONDENSER, MOTOR OVERLOAD PROTECTOR AND WINDING THERMOSTATS, REFRIGERANT SOLENOID VALVES, AIR–COOLED CONDENSER COILS WITH GUARDS, CONDENSER FANS AND MOTORS, EVAPORATOR COILS, FANS, MOTORS, EXTENDED FAN GREASE CONNECTIONS, FILTER SECTION, STAINLESS STEEL GAS–FIRED HEATING SECTION, AND HIGH AND LOW PRESSURE SAFETY CONTROLS..
2. FANS:
   - A. TESTED IN ACCORDANCE WITH ANSI/ASHRAE 51/AMCA 210–1999.
   - B. STATICALLY AND DYNAMICALLY BALANCED.
   - C. BEARINGS: PILLOW BLOCK OR FLANGE TYPE WITH L10 LIFE OF 40000 HOURS AT THE PEAK OPERATING CONDITION. EXTEND GREASE LEADS TO CASING EXTERIOR TO ALLOW LUBRICATION DURING OPERATION.
   - D. IN DRAW–THROUGH UNITS WITH CENTRIFUGAL FANS, FAN WHEEL ROTATION SHALL BE IN THE SAME DIRECTION AS FLOW IN ELBOWS INSTALLED WITHIN 3 DUCT DIAMETERS OF THE FAN DISCHARGE, WHERE DISCHARGE FROM THE ELBOW IS PERPENDICULAR TO THE FAN SHAFT.
   - E. CONDENSERS: SELECTED FOR A CONDENSING TEMPERATURE NOT TO EXCEED 120°F AT 100°F AMBIENT. COILS SHALL HAVE COPPER TUBES AND ALUMINUM FINS.

EQUIPMENT LABELS:

1. EACH ITEM OF EQUIPMENT SHALL BE PERMANENTLY LABELED WITH A NAMEPLATE OF SUFFICIENT SIZE TO CLEARLY INDICATE THE IDENTIFICATION DESIGNATION (I.E., EQUIPMENT NUMBER) APPEARING ON THE CONTRACT DOCUMENT. NAMEPLATES MAY BE 1/16" THICK BAKELITE LAMINATE (ENGRAVED WITH LETTERS THROUGH BLACK), OR ALUMINUM WITH BLACK ENAMELED SURFACE, WITH ENGRAVED LETTERS. HANDWRITTEN MARKER IDENTIFICATIONS ARE NOT ACCEPTABLE.

MECHANICAL GENERAL NOTES:

1. IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.
2. INTENT OF THESE NOTES AND MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT CONTRACTOR OF EXISTING CONDITIONS. CONTRACTOR TO VISIT SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE PROTECTION SUBCONTRACTOR BEFORE ANY CONSTRUCTION WORK.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES INSTALLATION SCHEDULES. FIXED WORK SUCH AS DUCTWORK AND PLUMBING SHALL BE INSTALLED PRIOR TO ANY TRADE WORK THAT CAN BE EASILY RELOCATED OR OFFSET SUCH AS ELECTRICAL CONDUITS, SMALL WATER LINES ETC.
4. UNLESS OTHERWISE NOTED, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO BOTTOM OF STRUCTURE. COORDINATE DUCT ELEVATION WITH WATER PIPING, SANITARY DRAINS AND MAJOR ELECTRICAL CONDUITS.
5. CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS.
6. ALL MECHANICAL WORK SHALL MEET ALL THE REQUIREMENTS OF, BUT NOT LIMITED TO THE 2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS.
7. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. INTERNAL INSULATION (WHERE USED) HAS NOT BEEN ACCOUNTED FOR.
8. DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM.
9. ALL WALL MOUNTED THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE INSTALLED AT AN ELEVATION OF 48" ABOVE FINISHED FLOOR TO THE TOP UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF THE WALL MOUNTED THERMOSTAT SHALL BE COORDINATED WITH OTHER TRADES FOR A NEAT APPEARANCE. FINAL LOCATION OF THERMOSTAT SHALL BE SUBJECT TO THE APPROVAL OF THE TENANT/OWNER OR THEIR REPRESENTATIVE IN THE FIELD.
10. ALL SUPPLY AIR DIFFUSERS SHALL BE 4–WAY THROW UNLESS OTHERWISE NOTED.
11. COORDINATE AIR DEVICE LOCATIONS WITH LIGHTING FIXTURES, SPEAKERS AND FIRE SPRINKLER HEADS (WHERE APPLICABLE).
12. CONTRACTOR SHALL VERIFY THAT THE LOCATION OF CEILING MOUNTED DIFFUSERS, GRILLES, AND REGISTERS SHOWN ON THE DRAWINGS ARE ACCEPTABLE TO THE ARCHITECT PRIOR TO INSTALLATION.
13. ALL NEW DUCTWORK SHALL BE 1" W.G. CONSTRUCTION, CONSTRUCTED OF LOCK FORMING GALVANIZED STEEL IN ACCORDANCE WITH THE "DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEMS, "THIRD EDITION, 2005, PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION INC. (SMACNA)". VOLUME DAMPERS SHALL BE PROVIDED IN ALL BRANCH TAKE OFFS, SPIN–INS OR OTHER CONNECTIONS TO INDIVIDUAL AIR DISTRIBUTION DEVICES. ALL 90 DEGREE ELBOWS SHALL BE RADIUS, OR RECTANGULAR WITH TURNING VANES. DUCTWORK SHALL BE HUNG AS HIGH AS POSSIBLE FROM THE BUILDING STRUCTURE WITH HANGER ASSEMBLIES IN ACCORDANCE WITH "SMACNA" REQUIREMENTS. PROVIDE ADDITIONAL RISES, DROPS, AND OFFSETS IN DUCTWORK AS REQUIRED. ALL DUCTWORK SHALL BE SEALED USING IRON GRIP (NO SUBSTITUTIONS) ALL DUCT REGARDLESS OF PRESSURE CLASS SHALL BE SEALED PER SMACNA CLASS "A."
14. NEW DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 1–1/2" THICK FIBERGLASS FLEXIBLE BLANKET INSULATION (RATED FIRE=25, SMOKE=50) SECURED TO THE DUCTWORK WITH BENJAMIN FOSTER NO. 8520 ADHESIVE & PUSH PINS ON 12" CENTERS. INSULATION TO HAVE AN INSTALLED MINIMUM R–VALUE OF 6.0.
15. ALL FLEXIBLE DUCTWORK SHALL BEAR THE UL 181 LABEL (CLASS 1 AIR DUCT) AND SHALL BE FACTORY INSULATED (1–1/2 INCH, 0.6 LB., FIBERGLASS, FIRE=25, SMOKE=50) ATCO UPC #050 OR EQUAL. FLEXIBLE DUCTWORK SHALL COMPLY W/ NFPA 90A, AND NFPA 90B. ALL FLEXIBLE DUCTWORK CONNECTED TO DIFFUSERS SHALL NOT BE LESS THAN THE NECK SIZE OF THE DIFFUSER UNLESS NOTED OTHERWISE ON DRAWINGS. MINIMUM FLEXIBLE DUCT BEND RADIUS OF CURVATURE SHALL BE 3 DUCT DIAMETERS, MAXIMUM LENGTH SHALL BE 6'–0", NO MORE THAN THE EQUIVALENT OF TWO (2) 90 DEGREE BENDS WILL BE ACCEPTABLE. TAKE OFF FITTINGS TO BE EQUAL TO FLEXMASTER TYPE 8M–R6. USE 45° THROAT AT PLENUM TAKE OFFS.
16. FLEXIBLE AND RIGID ROUND DUCT TAKE–OFFS FOR DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 6'–0". INSULATE RIGID ROUND DUCTS WITH 1–1/2" FOIL FACED FIBERGLASS DUCT WRAP, DUCT WRAP TO HAVE AN INSTALLED MINIMUM THERMAL RESISTANCE (R) VALUE OF 6.0.
17. ALL EXHAUST AIR DUCTWORK SHALL BE GALVANIZED SHEETMETAL CONSTRUCTION IN ACCORDANCE WITH LATEST SMACNA STANDARDS.
18. DUCT SHALL BE SECURELY SUPPORTED, HUNG OR SUSPENDED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. PROVIDE MINIMUM 1–1/2" WIDE 22 GA. STRAPS, 10 FT. SPACING FOR MAXIMUM HALF DUCT PERIMETER UP TO 30" AND ALL ROUND FLEX DUCT. PROVIDE 1" WIDE 22 GA. STRAPS, 5 FT. SPACING FOR MAXIMUM HALF DUCT PERIMETER FROM 31" TO 72" AND 1" WIDE 20 GA. STRAPS, 5 FT. SPACING FOR MAXIMUM HALF DUCT PERIMETER UP TO 96".
19. PROVIDE ALL ROOF TOP UNITS WITH MANUFACTURER'S RECOMMENDED SERVICE AREA CLEARANCES.
20. PROVIDE A TRAP IN ALL CONDENSATE PIPING LOCATED AT THE ROOF TOP UNIT. CONDENSATE PIPING TO BE TYPE "L" COPPER.
21. VERIFY VOLTAGE WITH ELECTRICAL BEFORE ORDERING EQUIPMENT.
22. ALL MECHANICAL EQUIPMENT CONTROL WIRING TO BE ROUTED IN CONDUIT.
23. GUARANTEE, FOR ONE YEAR AFTER DATE OF ACCEPTANCE BY THE OWNER, ALL EQUIPMENT, MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECT.
24. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM SO AS TO INSURE QUIET OPERATION. NO VIBRATION OR SOUND SHALL BE TRANSMITTED TO THE BUILDING, STRUCTURE OR OCCUPIED AREAS. THE DECISION OF THE ENGINEER AS TO THE QUIETNESS OF THE SYSTEM AND EQUIPMENT SHALL BE FINAL. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO CORRECT OR REPLACE ANY NOISY SYSTEM OR EQUIPMENT AS REQUIRED.
25. ALL MATERIAL SHALL BE OF APPROVED QUALITY AND THE WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER. THE WORK, MATERIALS AND TESTS SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE MECHANICAL CODES.
26. LOCATIONS OF DUCT MOUNTED SMOKE DETECTORS SHOWN ON THE DRAWINGS ARE REFERENCE LOCATIONS ONLY. THE FINAL PLACEMENT OF THE DETECTOR IN THE DUCTWORK SHALL MEET THE REQUIREMENTS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A PRESSURE DIFFERENTIAL TEST AND THE MANUFACTURER'S TEST KIT. A COPY OF ALL TEST DATA WILL BE MADE AVAILABLE AT THE FINAL INSPECTION. PROVIDE READILY ACCESSIBLE DUCT ACCESS DOOR FOR INSPECTING AND SERVICING THE DETECTOR. THE ACTUATION OF A SMOKE DETECTOR SHALL ACTIVATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT AN APPROVED LOCATION AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. DUCT SMOKE DETECTORS ARE FURNISHED AND WIRED TO SHUT DOWN UNIT BY DIVISION 16, BUT SHALL BE INSTALLED IN DUCTWORK BY THE MECHANICAL CONTRACTOR.

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ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
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06.29.22	REV. 1 PER COMMENTS

DRAWN BY: DMB
CHK'D BY: BGB

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS

PROJECT NO: 21035

M0.1

DIFFUSER, REGISTER, and GRILLE SCHEDULE

All model numbers are Titus unless otherwise indicated.

A NS CFM	**HIGH PERFORMANCE SQUARE CEILING SUPPLY DIFFUSER**	
	TMS–AA	24x24 or 12x12 face as shown, neck size (NS) and CFM as noted, border type to match ceiling type in architectural reflected ceiling plan. Aluminum construction with 3–cone design. Provide face operable damper in inaccessible ceiling locations. Finish as approved by Architect.
B NS CFM	**ROUND SUPPLY DIFFUSER**	
	TMR–AA	22" face, neck size (NS) and CFM as noted, Aluminum construction with 3–cone design. Finish as approved by Architect.
Vertical Discharge C IS CFM	**PLENUM SLOT SUPPLY DIFFUSER**	
	Titus ML–30	Two–slot diffuser (1" slot), 48" length, with insulated plenum and adjustable gasketed blade pattern controller. Inlet size (IS) and CFM as noted on drawings. Provide face operable damper for diffusers in inaccessible ceilings. Provide border type as required for ceiling application. Finish as approved by Architect.
D FS	**EGGCRATE RETURN AIR GRILLE**	
	50F	24X24 or 12X12, Face size (FS) as noted. 1/2"x1/2"x1/2" grid. Border type as required by Architectural reflected ceiling plan. Aluminum construction for border and grid. Anodized finish as approved by Architect.
E FS CFM	**TOILET EXHAUST REGISTER**	
	50F	Face size (FS), as noted, 1/2"x1/2"x1/2" grid. Border type as required by Architectural reflected ceiling plan. Aluminum construction for border and grid. Provide volume damper in neck of register. Finish as approved by Architect.

HOOD SCHEDULE

HOOD NO.	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	HOOD TEMP RATING	EXHAUST						SUPPLY	TOTAL WEIGHT LBS.	NOTES
		LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM		
								WIDTH	LENGTH	DIA.	CFM	S.P.			
1	THERMOTEX 5424–T–ND–2–PSP–F	9'–6"	54"	24"	430 SS WHERE EXPOSED	HEAVY	2,138	––	––	14"	2,138	–1.254"	1,710	851	1

NOTES:
1. SEE KITCHEN DRAWINGS FOR HOOD DETAILS.

FAN SCHEDULE

MARK	CFM	S.P. WG	MOTOR HP	COOLING CAPACITY (MBH)	GAS HEAT (MBH)		TYPE	BASIS OF DESIGN	LOCATION/ SERVICE	NOTES
					INPUT	OUTPUT				
ACF–1	1,442	––	1/2	––	––	––	AIR CURTAIN	MARS STD248–1UA–PW	KITCHEN	1,5
KEF–1	2,138	1.650	1–1/2	––	––	––	UPBLAST	THERMOTEK DU180HTH	ROOF/KITCHEN	1,4,6
KSF–1	1,710	1.250	1.0	––	––	––	MAKE–UP	THERMOTEK T–A1–G10	ROOF/KITCHEN	1,4,6
TEF–1	540	0.50	1/4	––	––	––	INLINE	GREENHECK BSQ–80–4	RESTROOMS	1,2,3

NOTES:
1. REFER TO ELECTRICAL DRAWINGS FOR SERVICE VOLTAGE CHARACTERISTICS.
2. PROVIDE BACKDRAFT DAMPER, SPEED CONTROLLER MOUNTED AT FAN, AND DISCONNECT SWITCH.
3. CONTINUOUS OPERATION.
4. INTERLOCK OPERATION OF FAN WITH KITCHEN HOOD.
5. INTERLOCK WITH DOOR SWITCH.
6. PROVIDE 20" HIGH ROOF CURB.

RTU SCHEDULE

MARK	CFM	MIN OA CFM	HP	ESP IN WG	NOMINAL TONNAGE	GAS HEAT INPUT (MBH)	BASIS OF DESIGN	EFFICIENCY	NOTES
RTU–1	2,000	400	2.0	0.8	5.0	115	CARRIER – 48FCRA06B2M5–0F1F0	13.0 SEER	1,2,3,5,6,7,8,9,10,11,12,13,14,15,16
RTU–2	2,000	400	2.0	0.8	5.0	115	CARRIER – 48FCRA06B2M5–0F1F0	13.0 SEER	1,2,3,5,6,7,8,9,10,11,12,13,14,15,16
RTU–3	2,000	400	2.0	0.8	5.0	115	CARRIER – 48FCRA06B2M5–0F1F0	13.0 SEER	1,2,3,5,6,7,8,9,10,11,12,13,14,15,16

NOTES:
1. COOLING CAPACITIES BASED ON 80°F DB / 67°F WB ENTERING COIL, 105°F DB ENTERING CONDENSER.
2. PROVIDE SINGLE POINT CONNECTION KIT.
3. SINGLE COOLING STAGE.
4. DUAL COOLING STAGE.
5. PROVIDE SLOPE STAINLESS STEEL DRAIN PAN.
6. PROVIDE STAINLESS STEEL HEAT EXCHANGER.
7. PROVIDE CONDENSER COIL HAIL GUARD.
8. PROVIDE 14" HIGH ROOF CURB.
9. PROVIDE FACTORY INSTALLED DISCONNECT AND UNPOWERED CONVENIENCE OUTLET.
10. PROVIDE THROUGH THE BASE ELECTRICAL ACCESS.
11. PROVIDE 1 YEAR PARTS AND LABOR WARRANTY.
12. PROVIDE 5 YEAR PARTS WARRANTY ON COMPRESSORS.
13. PROVIDE RETURN AIR SMOKE DETECTOR.
14. PROVIDE FACTORY INSTALLED DIFFERENTIAL ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
15. PROVIDE MOTORIZED OUTSIDE AIR DAMPER.
16. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PLACING ORDER FOR EQUIPMENT.

REFRIGERATION SPLIT SYSTEM SCHEDULE

SYSTEM	CAPACITY (MBH)	CFM	NUMBER OF EVAPORATORS	NUMBER OF CONDENSERS	BASIS OF DESIGN EVAPORATOR	BASIS OF DESIGN CONDENSER	NOTES
DRINK COOLER	41.6	1,550	3	1	RUSSELL – RF0500E4SEA	RUSSELL – RL6A130ADA	1,2,3,5,6
BEER CAVE	11.8	1,550	2	2	RUSSELL – RL6E090DDA	RUSSELL – RFH325E4S–EA	1,2,3,4,6

NOTES:
1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO PLACING ORDER FOR EQUIPMENT.
2. PROVIDE AIR DEFROST TIMER OPTION.
3. PROVIDE CRANKCASE HEATER.
4. CONDENSERS SHALL OPERATE AS LEAD LAG SYSTEM.
5. PROVIDE STAGGERED CONNECTIONS BETWEEN CONDENSERS.
6. REFER TO MANUFACTURER'S REQUIREMENTS FOR INSTALLATION.

BUILDING AIR BALANCE SCHEDULE

MARK	EXHAUST AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	USE	NOTES
KEF–1	2,138		KITCHEN HOOD	
TEF–1	540		TOILET EXHAUST	
KSF–1		1,710	KITCHEN HOOD MAKEUP	
RTU–1		400		
RTU–2		400		
RTU–3		600		
TOTAL EXHAUST	2,678			
TOTAL OUTSIDE AIR		2,910		
BUILDING AIR BALANCE		+232		

⚠

Minimum Ventilation Rates Per 2018 IMC, Table 403.3

Room Number	Room Name	Area (ft^2)	Occupant Density # of People/ 1000sf	Calculated # of People	Actual # of People	cfm/person (cfm)	cfm/sf (cfm)	Total cfm (cfm)	Zone Effective	Total cfm (cfm)	Scheduled OA (cfm)	Exhaust Airflow Rate/ Fixture (cfm)	Exhaust Airflow Rate (cfm/sf)	Calculated Exhaust Airflow Rate (cfm)	Scheduled Exhaust Airflow Rate (cfm)
100	SALES ROOM	125	20	2.5	3	7.5	0.18	45	0.8	56.25	57	-	-	-	-
101	FOOD SERVICE COUNTER	190	15	2.85	3	7.5	0.12	45.3	0.8	56.625	57	-	-	-	-
102	KITCHEN	115	10	1.15	2	7.5	0.18	35.7	0.8	44.625	45	-	-	-	-
104	SALES AREA	1900	8	15.2	16	7.5	0.06	234	0.8	292.5	293	-	-	-	-
106	MEN'S	190	0	0	0	0	0	0	0	0	0	280	0	280	280
107	JANITOR'S	50	0	0	0	0	0	0	0	0	0	-	1	50	50
108	WOMEN'S	180	0	0	0	0	0	0	0	0	0	210	0	210	210
110	SMOKE SHOP	300	8	2.4	3	7.5	0.18	76.5	0.8	95.625	96	-	-	-	-
111	SALES COUNTER	240	8	1.92	2	7.5	0.18	58.2	0.8	72.75	73	-	-	-	-
	HALLWAY	160	0	0	0	0	0.06	9.6	0.8	12	12	-	-	-	-
200	BALCONEY	850	0	0	0	0	0.06	51	0.8	63.75	64	-	-	-	-
201	OFFICE	180	5	0.9	1	5	0.06	15.8	0.8	19.75	20	-	-	-	-
202	OFFICE	160	5	0.8	1	5	0.06	14.6	0.8	18.25	19	-	-	-	-
203	WORK AREA	300	5	1.5	2	5	0.06	28	0.8	35	35	-	-	-	-

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ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
06.29.22	REV. 1 PER COMMENTS
09.15.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS

DRAWN BY: DMB

CHK'D BY: BGB

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

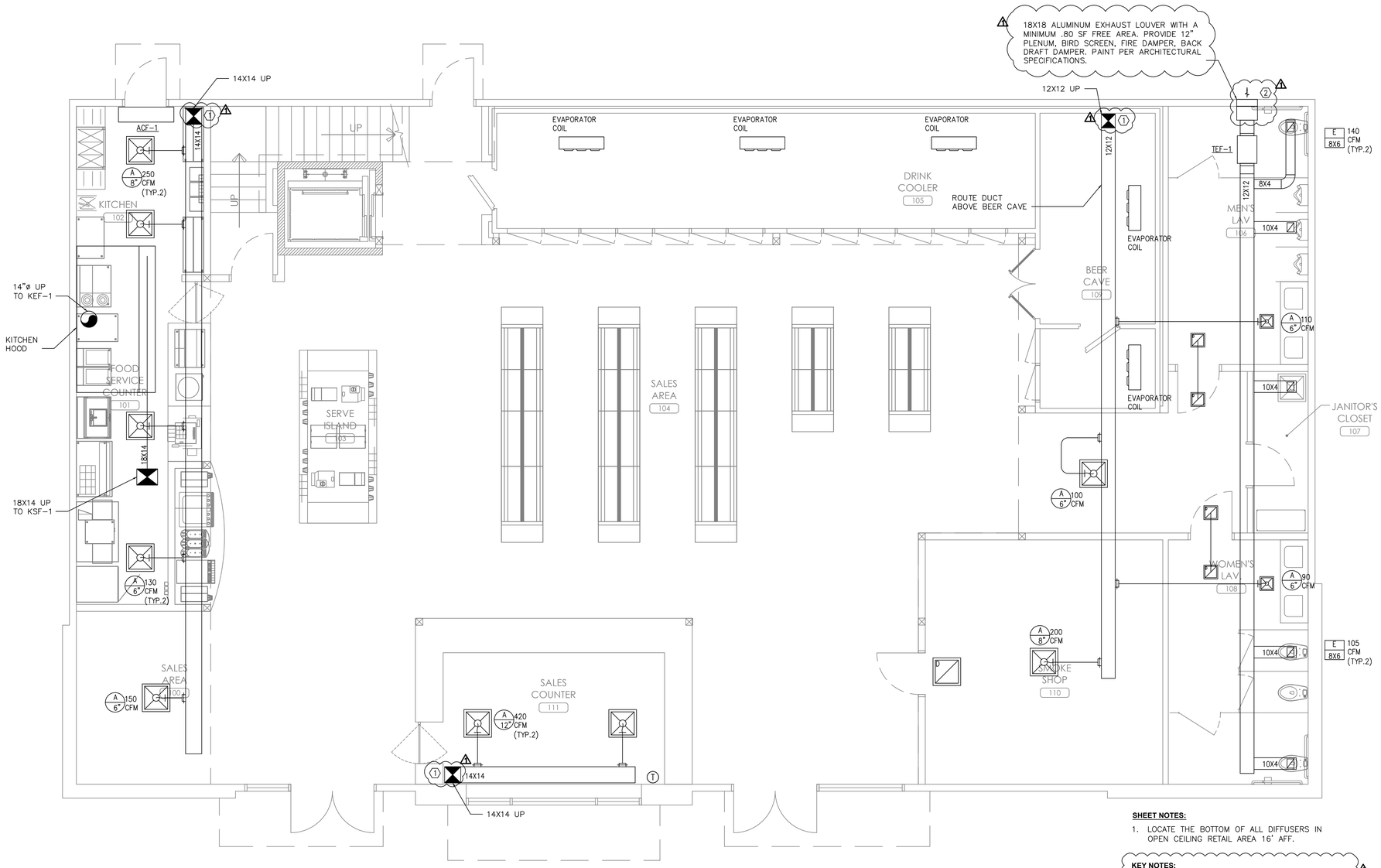
SHEET TITLE:

MECHANICAL SCHEDULES

PROJECT NO: 21035

⚠
Beach Engineering Solutions Team, Inc
bestengineeringsolutions.com
(678) 665-3280
project number: 22-XXX

M0.2



1 M1.1 FIRST FLOOR PLAN - MECHANICAL
1/4" = 1'-0"

SHEET NOTES:

1. LOCATE THE BOTTOM OF ALL DIFFUSERS IN OPEN CEILING RETAIL AREA 16' AFF.

KEY NOTES:

1. PROVIDE FIRE DAMPER IN UL LISTED L570 2, 1 HOUR RATED CEILING/FLOOR ASSEMBLY.
2. PROVIDE FIRE DAMPER IN UL LISTED U415 A, 1 HOUR RATED WALL ASSEMBLY.

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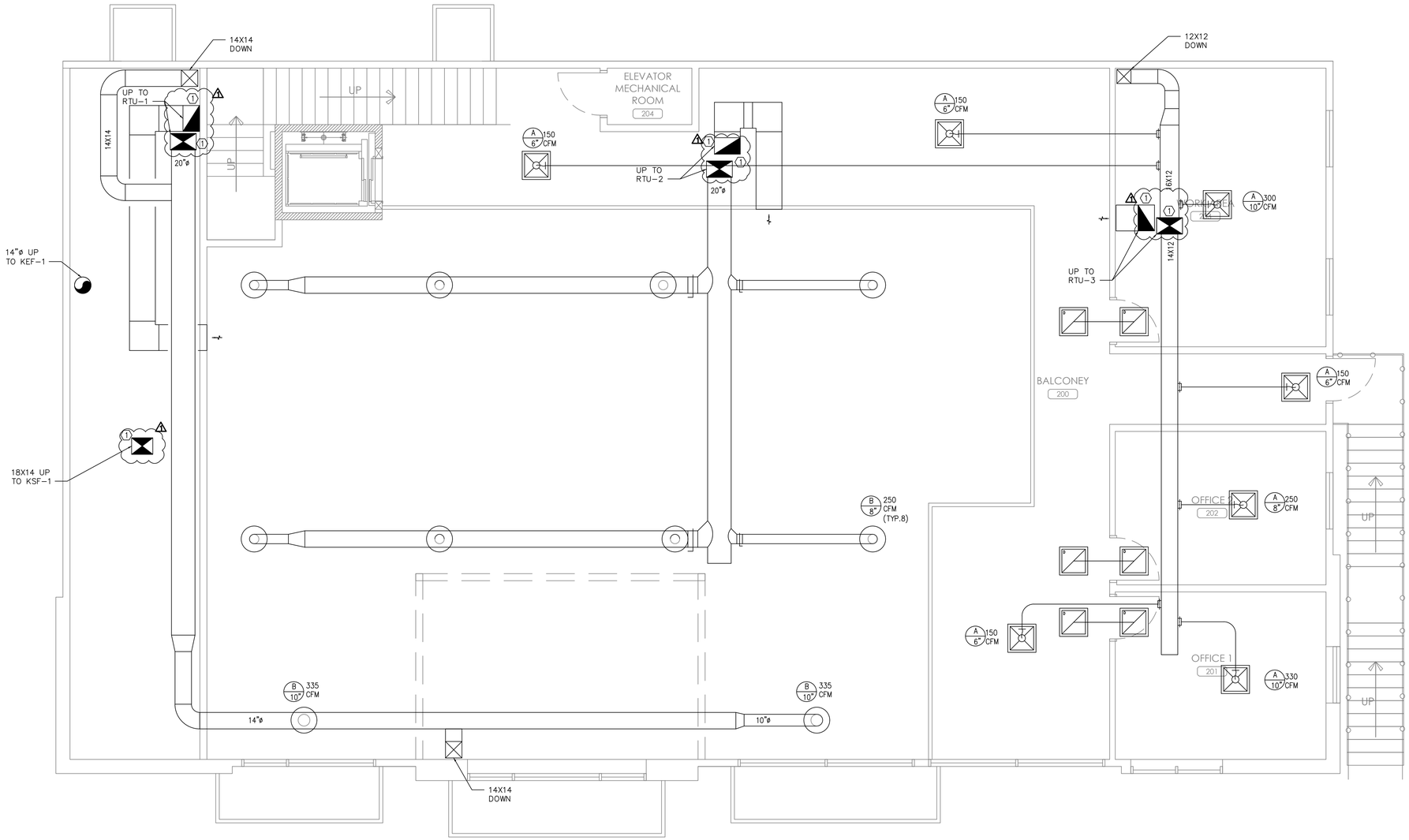
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
FIRST FLOOR PLAN - MECHANICAL

PROJECT NO: 21035

M1.1



1 M1.2 SECOND FLOOR PLAN - MECHANICAL

1/4" = 1'-0"

KEY NOTES:

1. PROVIDE FIRE DAMPER IN UL LISTED P522, 1 HOUR RATED ROOF/CEILING ASSEMBLY.

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CHK'D BY: BGB

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

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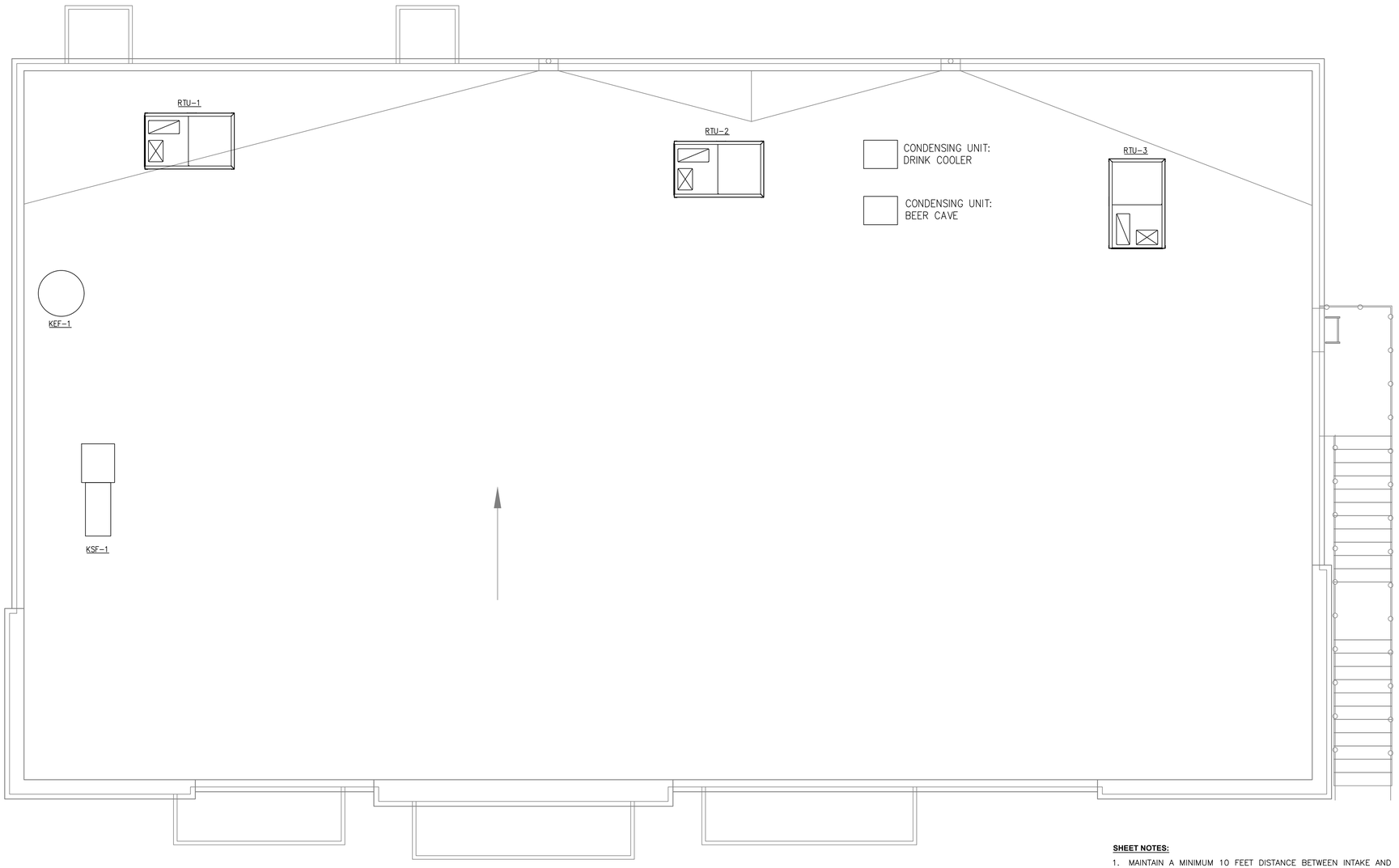
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

SECOND FLOOR PLAN - MECHANICAL

PROJECT NO: 21035

M1.2



SHEET NOTES:

1. MAINTAIN A MINIMUM 10 FEET DISTANCE BETWEEN INTAKE AND EXHAUST OR VENTS.
2. COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH STRUCTURE.

1 / M1.3 ROOF PLAN - MECHANICAL
1/4" = 1'-0"

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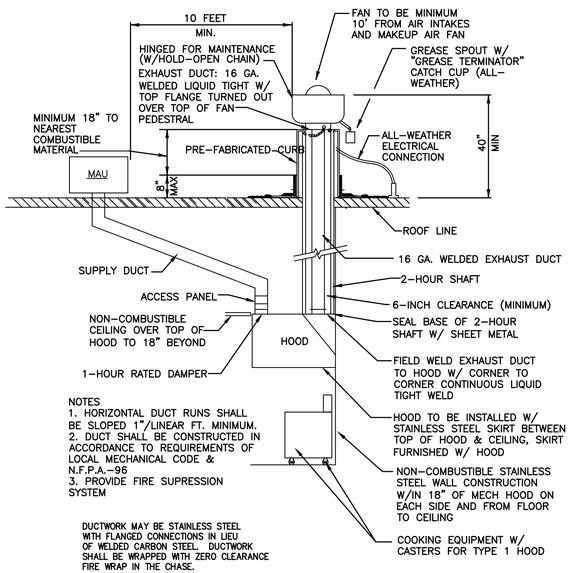
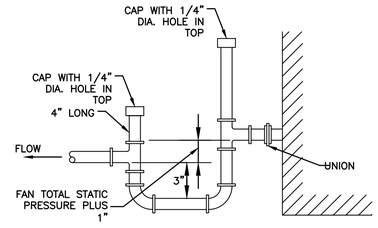
SHEET TITLE:
ROOF PLAN - MECHANICAL

PROJECT NO: 21035

M1.3



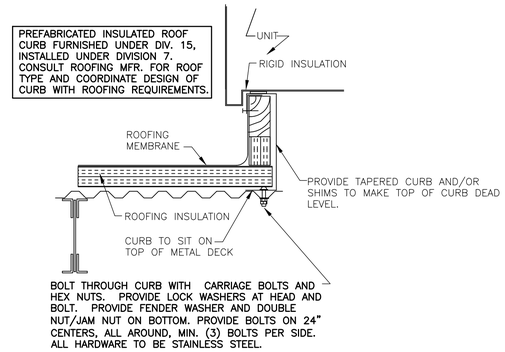
4 KITCHEN EXHAUST HOOD DETAIL
SCALE: NTS



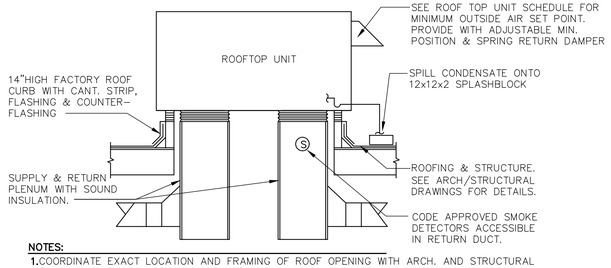
NOTES:

1. PIPING SHALL BE FULL SIZE OF DRAIN PAN CONNECTION, OR 1" MINIMUM.
2. PIPE TO NEAREST FLOOR DRAIN.
3. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
4. INSULATE DRAIN PIPING PER SPECIFICATIONS.
5. PVC PIPE LOCATED IN PLENUM SPACE SHALL BE WRAPPED IN FIRE RATED INSULATION.
6. SLOPE PIPING DOWN 1/3" PER FOOT IN DIRECTION OF FLOW.
7. PIPING SHOULD REPRESENT SCREWED FITTINGS. REFER TO SPECIFICATIONS FOR PIPING MATERIAL, FITTINGS AND INSTALLATION REQUIREMENTS.

3 CONDENSATE DRAIN TRAP DETAIL
SCALE: NTS

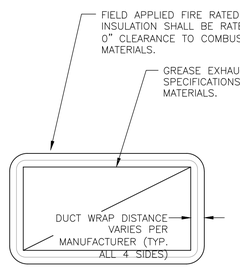


2 ROOF CURB DETAIL FOR MECHANICAL EQUIPMENT
SCALE: NTS



NOTES:
1. COORDINATE EXACT LOCATION AND FRAMING OF ROOF OPENING WITH ARCH. AND STRUCTURAL (SEE SPECIFIC DRAWINGS FOR DETAILS).

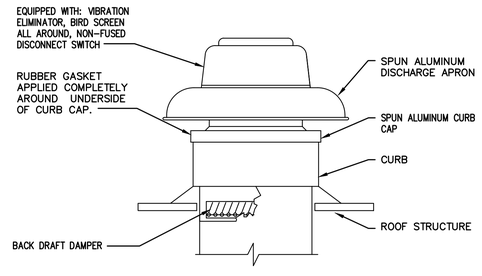
1 TYPICAL VERTICAL ROOFTOP UNIT
SCALE: NTS



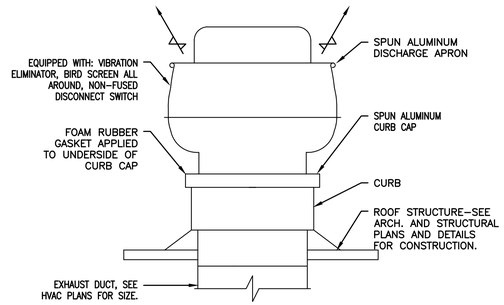
NOTES:

1. GREASE DUCT SHALL BE CONSTRUCTED AND INSTALLED PER NFPA 96 AND LOCAL CODES.
2. FIELD APPLIED GREASE DUCT INSULATION SHALL BE LISTED IN ACCORDANCE WITH ASTM 2336 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE LISTING REQUIREMENTS.
3. FIRESTOP SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 814 AND HAVING AN "F" AND "T" RATING EQUAL TO THE FIRE RESISTANCE RATING OF THE ASSEMBLY BEING PENETRATED.
4. PROVIDE ACCESS DOORS IN ACCORDANCE WITH NFPA 96 AND LOCAL CODE REQUIREMENTS.

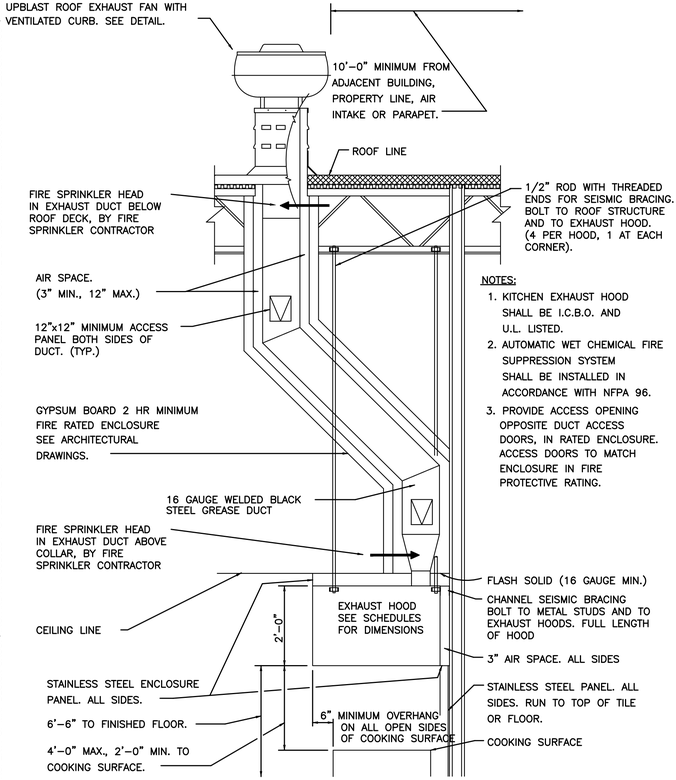
7 GREASE EXHAUST DUCT DETAIL
SCALE: NTS



6 ROOF MOUNTED CENTRIFUGAL EXHAUST FAN
SCALE: NTS



5 ROOF MOUNTED UPBLAST EXHAUST FAN
SCALE: NTS



8 KITCHEN EXHAUST HOOD DETAIL
SCALE: NTS

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ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
06.29.22	REV. 1 PER COMMENTS

DRAWN BY: DMB
CHK'D BY: BGB

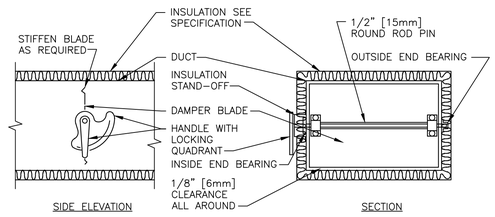
PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
MECHANICAL DETAILS

PROJECT NO: 21035

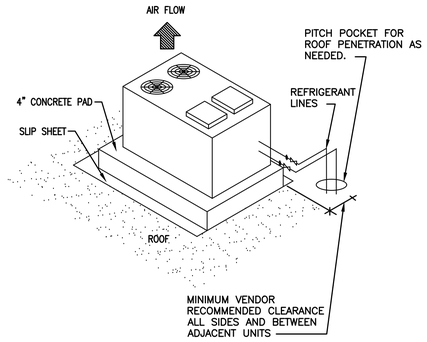
M3.1



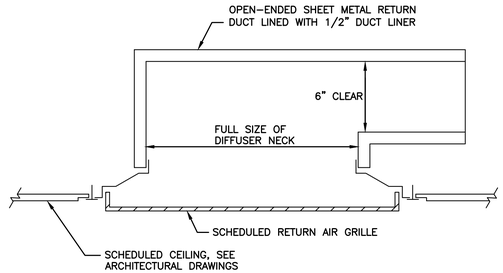
NOTE:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

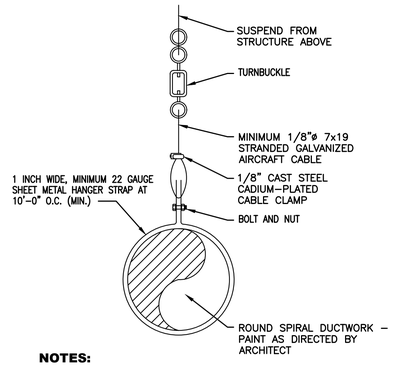
4 VOLUME DAMPER DETAIL
SCALE: NTS



3 ROOF MOUNTED CONDENSING UNIT DETAIL
SCALE: NTS



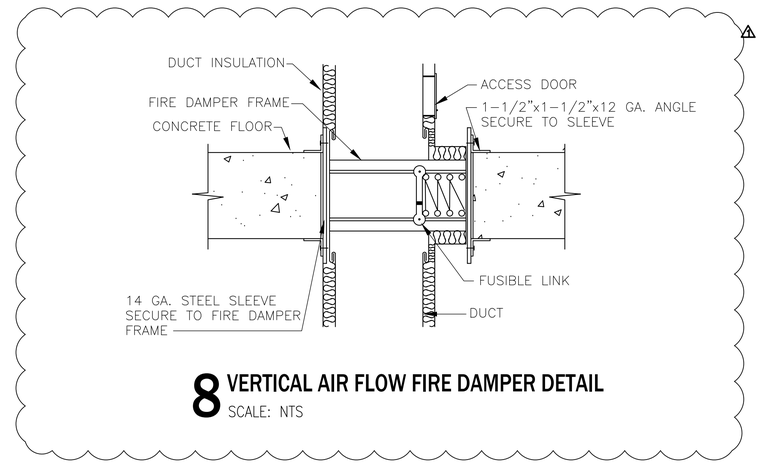
2 RETURN AIR GRILLE WITH LINED ELBOW
SCALE: NTS



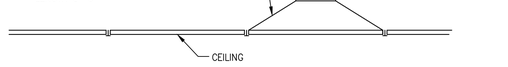
NOTES:

1. SUPPORT CABLE, BAND GAUGE, HANGER SPACING, AND UPPER ATTACHMENT SHALL BE AS PER SMACNA DUCT CONSTRUCTION STANDARDS.

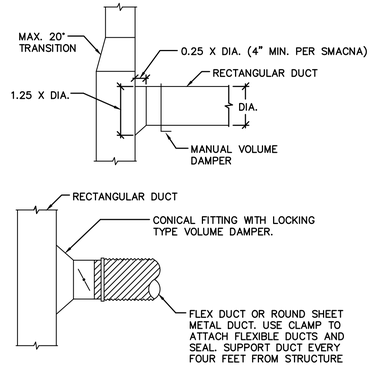
1 SPIRAL DUCT HANGER DETAIL
SCALE: NTS



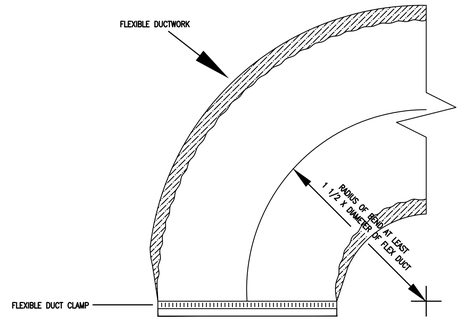
8 VERTICAL AIR FLOW FIRE DAMPER DETAIL
SCALE: NTS



7 CEILING DIFFUSER DETAIL
SCALE: NTS



6 BRANCH DUCT DETAIL
SCALE: NTS



5 FLEXIBLE DUCT WITH CLAMP DETAIL
SCALE: NTS

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M3.2

ELECTRICAL SPECIFICATIONS
DIVISION 16 - ELECTRICAL SPECIFICATIONS

PART I. GENERAL PROVISIONS

1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM FOR THE BUILDING.

A. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL OF THE FOLLOWING MATERIAL AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: PANELBOARDS; LIGHTING FIXTURES; LAMPS; RACEWAYS; 600 VOLT WIRE AND CABLE; WIRING DEVICES; DEVICE PLATES; DEVICE, PULL, AND JUNCTION BOXES; SAFETY SWITCHES; LIGHTING CONTROLS; CIRCUIT BREAKERS; FUSES; TIME CLOCKS; EQUIPMENT IDENTIFICATION (NAMEPLATES AND DIRECTORIES); WIRE AND CABLE TERMINATIONS; CONNECTIONS TO INDIVIDUAL UNITS OF EQUIPMENT FOR THE WALK-IN COOLER; AND TEMPORARY POWER.

B. THE FOLLOWING MATERIAL AND EQUIPMENT WILL BE FURNISHED AND/OR INSTALLED BY OTHERS, OR UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: LOW VOLTAGE (24 VOLT) WIRE AND CABLE, COMMUNICATION DEVICES, SECURITY EQUIPMENT, POINT OF SALE (POS) EQUIPMENT, SIGNAGE.

2. GENERAL REQUIREMENTS: ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELECTRICIANS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE, MEETING THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE FEDERAL, STATE AND LOCAL CODES. ALL WORK SHALL BE INSTALLED IN COMPLIANCE OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL INSTALLATION STANDARDS (NEIS). ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION SHALL BE PURCHASED AND OBTAINED UNDER THIS CONTRACT.

A. COORDINATION: ALL OUTLETS MUST BE ACCURATELY LOCATED, PARTICULARLY APPLIANCE OUTLETS WHICH SHALL BE LOCATED FROM THE DIMENSIONS GIVEN ON ALL THE DRAWINGS, INCLUDING SUBSETS. REVIEW THE ARCHITECTURAL, PLUMBING AND HEATING AND VENTILATING PLANS IN ORDER TO COORDINATE THIS WORK WITH OTHER TRADES, AND COOPERATE WITH THEM IN THE ENTIRE INSTALLATION.

B. BEFORE ROUGH-IN, VERIFY ELECTRICAL REQUIREMENTS OF ALL BUILDING AND EXTERIOR SIGNAGE, MECHANICAL, SELF-SERVE FOOD SERVICE, AND FUEL DISPENSING EQUIPMENT. MAKE ADJUSTMENTS TO RECEPTACLES, DISCONNECT SWITCHES, WIRING CIRCUITS, CIRCUIT BREAKERS, ETC., AS REQUIRED.

3. SERVICE VOLTAGE: THESE DRAWINGS ARE FOR A METERED, UNDERGROUND SERVICE OF 120/208 VOLT, THREE PHASE, FOUR WIRE, 60 HERTZ. ALL SELF-SERVE FOOD SERVICE, FUEL DISPENSING AND HVAC EQUIPMENT HAS BEEN DESIGNED AND PURCHASED FOR USE ON THIS ELECTRICAL SYSTEM. THE CONTRACTOR SHALL VERIFY THE SERVICE.

4. SERVICE EQUIPMENT: THE SERVICE IS LOCATED AS SHOWN ON RISER DIAGRAM, E001 AND THE POWER PLAN, E200.

PART II. MATERIALS

1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER MAJOR MANUFACTURERS OF COMMERCIAL EQUIPMENT MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY POPEYE'S ARCHITECTURE AND ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL SUBMIT A SUBSTITUTION LIST IN TRIPLICATE AT LEAST FIVE DAYS PRIOR TO THE BID OPENING.

A. DISCONNECT SWITCHES: ALL DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE NEMA 1 FOR INDOOR AND NEMA 3R FOR OUTDOOR. ALL FUSES FOR DISCONNECT SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE BUSSMAN OR LITTLEFUSE. THE CONTRACTOR SHALL PROVIDE OWNER ONE SET OF SPARE FUSES FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES SHALL BE RK1, TYPICAL, UON.

B. PANELBOARDS: PANELBOARDS SHALL BE BOLT-IN CIRCUIT BREAKER TYPE, AS SHOWN ON THE PLANS. PANELS SHALL BE OF PANELBOARD CONSTRUCTION, 20 INCHES WIDE (MINIMUM), 5-3/4" TO 6-1/2" DEEP, UL LISTED, AND MEET UL 67, UL 50, AND FEDERAL SPECIFICATION W-P-115B AS TYPE 1, CLASS 1, WITH BOLT-ON CIRCUIT BREAKERS, COPPER BUS BARS, NEUTRAL BUS, GROUND BUS, AND A HINGED LOCKABLE DOOR. CABINETS SHALL BE CODE GAUGE, GALVANIZED STEEL, MOUNTED AS SHOWN. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES WITH CLEAR PLASTIC PROTECTORS IN ALL PANELS. ALL WIRES SHALL BE TAGGED WITH PANEL AND CIRCUIT NUMBERS. APPROVED MANUFACTURERS OF PANELS ARE SQUARE D/TELEMECHANIQUE, CUTLER-HAMMER, GENERAL ELECTRIC, WESTINGHOUSE, AND SIEMENS (I-T-E).

C. LIGHTING FIXTURES: ALL LIGHTING FIXTURES SHALL BE UL LISTED, COMMERCIAL QUALITY.

D. LAMPS: ALL NEW LAMPS SHALL BE LED, UNLESS NOTED OTHERWISE.

E. WIRING DEVICES: ALL WIRING DEVICES SHALL BE UL LISTED, COMMERCIAL SPECIFICATION GRADE. SWITCHES SHALL BE RATED 20 AMPS AT 120/277 VOLTS, AC. STANDARD RECEPTACLES SHALL BE 20 AMP, DUPLEX, GROUNDING TYPE, IN NEMA CONFIGURATIONS, UNLESS NOTED OTHERWISE. SWITCHES IN THE SAME LOCATION SHALL BE GANGED BEHIND A SINGLE PLATE. DEVICE PLATES IN THE KITCHEN AREA SHALL BE METAL, ALUMINUM OR STAINLESS STEEL. DEVICE PLATES IN THE DINING AREA SHALL BE THERMOPLASTIC PLASTIC (NYLON) OR METAL, COLOR AS APPROVED BY THE ARCHITECT OR OWNER. APPROVED MANUFACTURERS OF SWITCHES AND RECEPTACLES ARE HUBBELL, ARROW HART, BRYANT, LEVITON, PASS & SEYMOUR, GENERAL ELECTRIC, SLATER, OR EQUAL.

1. SWITCHES:
   a. SINGLE POLE: HUBBELL HBL1221-I, OR EQUAL.
   b. THREE WAY: HUBBELL HBL1223-I, OR EQUAL.
2. RECEPTACLES:
   a. NEMA 5-20R: HUBBELL 5362I, OR EQUAL.
   b. NEMA 5-20R-IG: HUBBELL IG-5362, OR EQUAL.
   c. NEMA 5-20R-IG/SS: HUBBELL IG-5362-OS, OREQUAL.
   d. NEMA 5-20R-GFCI: HUBBELL GF5362-I, OR EQUAL.
   e. NEMA 6-20R: HUBBELL 5462-I, OR EQUAL.
   f. OTHERS: COMMERCIAL OR INDUSTRIAL GRADE, UL LISTED, FEDERAL SPECIFICATION WC596F.

3. WP PLATES: WEATHERPROOF COVERS ARE PERMITTED UNDER NEC ARTICLE 406.8(B)(I).

F. CONDUIT AND FITTINGS: CONDUIT PERMITTED: (A) RIGID GALVANIZED STEEL (RGS), (B) EMT, (C) PVC, AND (D) MC. TYPES UTILIZED SHALL BE RUN ONLY AS PERMITTED PER CODE. ALL WIRING SHALL BE RUN IN CONDUIT. CONDUIT EXPOSED OR RUN IN MASONRY WALLS ABOVE GRADE MAY BE PVC OR EMT WHERE ALLOWED BY LOCAL CODES. IF EMT IS NOT PERMITTED, RIGID SCREWED GALVANIZED PIPE CONDUIT AND FITTINGS SHALL BE USED. IF SHIELDED CABLE IS REQUIRED FOR CONTROL CIRCUITRY, IT SHALL BE TAN, GREY OR ANY NEUTRAL COLOR OTHER THAN THAT AS SPECIFIED FOR POWER DISTRIBUTION. NO CONDUIT SMALLER THAN 3/4" SHALL BE INSTALLED EXCEPT FOR TWO-WIRE SWITCH LEGS. ALL CONDUIT BENDS SHALL BE FREE FROM DENTS AND KINKS. ALL CONDUITS SHALL BE ELECTRICALLY CONTINUOUS FROM THE SERVICE EQUIPMENT TO ALL OUTLETS, AND SHALL BE SECURED TO ALL METAL BOXES WITH ONE LOCK NUT OUTSIDE, AND ONE INSIDE THE BOX WITH A REINFORCED BAKELITE BUSHING. IF PVC IS USED, THEN APPROPRIATE SIZED, ELECTRICALLY CONTINUOUS, BOND WIRES SHALL BE RUN FROM THE SERVICE EQUIPMENT TO ALL OUTLETS, AND SHALL BE SECURED TO EACH WIRING DEVICE PER THE NATIONAL ELECTRICAL CODE. WHERE CONNECTIONS ARE TO BE MADE BETWEEN CONDUIT TERMINATIONS AND MOTORS, EQUIPMENT, OR APPARATUS NECESSITATING FLEXIBLE CONNECTIONS, APPROVED FLEXIBLE CONDUIT SHALL BE USED. OUTDOOR CONNECTIONS TO FANS, HVAC UNITS, CONDENSER UNITS, OR ROTATING EQUIPMENT SHALL BE MADE WITH HELICAL WOUND, LIQUIDTIGHT, FLEXIBLE STEEL CONDUIT. EXPOSED CONDUIT SHALL BE SUITABLY SUPPORTED AT INTERVALS NOT TO EXCEED FIVE (5) FEET.

G. WIRE AND CABLES: ALL WIRE AND CABLES SHALL BE UNDERWRITERS LABORATORIES' LISTED, AND LABELED, AND CONFORM WITH APPLICABLE STANDARDS OF UL (44, AND 83), NEMA (WC-5, AND WC-7), IPCEA (S-61-402, AND S-66-524), FEDERAL SPECIFICATIONS (J-C-30A(1), AND HH-I-595C), ANSI, AND OTHER APPLICABLE INDUSTRY STANDARDS. CONNECTORS AND LUGS SHALL MEET UL PUBLICATION 486. ALL BRANCH CIRCUIT WIRING SHALL BE 600 VOLT, COPPER, 75 DEGREE C (MIN), TYPE THHN/THWN WITH A MINIMUM SIZE OF #12 AWG, UNLESS NOTED OTHERWISE. WIRE SIZES OF #8 AWG AND LARGER SHALL BE STRANDED. FEEDER CABLES SHALL BE 600 VOLT, STRANDED COPPER, 75 DEGREE C (MIN), TYPE XHHW. ALL CIRCUITS SHALL HAVE A SEPARATE GROUND CONDUCTOR. PROVIDE GREEN-INSULATED GROUND WIRE IN ALL RACEWAYS, CABLE ASSEMBLIES, AND WHERE NOTED. SIZE EQUIPMENT GROUNDS PER TABLE 250-122 OF THE NATIONAL ELECTRICAL CODE. INSULATION COLOR CODES SHALL BE BLACK, RED, AND BLUE (PHASE), WHITE (NEUTRAL), AND GREEN (GROUND).

H. ALL WIRING SHALL BE INSTALLED IN CONDUIT, EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. NON-METALLIC SHEATHED (TYPE NM) CABLE IS NOT PERMITTED.

1. ALL BRANCH CIRCUIT, COMMUNICATION, SIGNALING, AND CONTROL WIRING TO KITCHEN, FIRE PROTECTION, AND OTHER EQUIPMENT SHALL BE ROUTED ABOVE THE CEILING. VERIFY WHETHER OR NOT THE SPACE ABOVE THE CEILING IS USED AS A SPACE FOR RETURN AIR FOR THE ENVIRONMENTAL AIR SYSTEM. IF IT IS USED FOR RETURN AIR, PROVIDE APPROVED RACEWAYS FOR ALL OVERHEAD WIRING PER NEC ARTICLE 300-22(B). IF IT IS NOT "OTHER SPACE USED FOR ENVIRONMENTAL AIR", APPROVED LOW VOLTAGE CABLES MEETING THE REQUIREMENTS OF NEC ARTICLES 725 AND 760 MAY BE RUN WITHOUT RACEWAYS, UNO. ALL SAFETY CONTROL WIRING FOR FIRE PROTECTION SYSTEMS, SHUNT TRIPS, ETC. SHALL BE RUN IN A RACEWAY IN ACCORDANCE WITH NEC ARTICLES 725.25 AND 725.28.

2. SIGNAGE LIGHTING: PROVIDE A 1" RIGID GALVANIZED STEEL ELECTRICAL CONDUIT, AND WIRING, FROM THE PANEL TO ALL ILLUMINATED SIGNS AS SHOWN ON THE LIGHTING PLAN GROUND/BOND EACH SIGN. SIGNS WILL BE FURNISHED AND INSTALLED BY THE OWNER, OR UNDER A SEPARATE CONTRACT, UNO. POWER AND WIRING SHALL BE FURNISHED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.

I. OTHER WIRING:

1. FURNISH AND INSTALL ALL POWER WIRING AND CONDUIT AS INDICATED ON THE DRAWINGS FOR ROOF-TOP HVAC EQUIPMENT AND WALK-IN COOLER EQUIPMENT. DISCONNECT SWITCHES, SHALL BE FURNISHED AND INSTALLED FOR EACH UNIT OF HVAC EQUIPMENT, AND FOR KITCHEN EQUIPMENT AS NOTED. CONTRACTOR SHALL VERIFY ALL HVAC AND SELF-SERVE FOOD SERVICE EQUIPMENT LOADS BEFORE ROUGH-IN. MAKE ALL NECESSARY ADJUSTMENTS TO VOLTAGE, PHASE, CIRCUIT BREAKERS, DISCONNECTS, WIRING AND CONDUIT. BEFORE ENERGIZING ANY EQUIPMENT, VERIFY THAT THE CORRECT POWER SUPPLY VOLTAGE, AMPACITY, AND PHASING HAS BEEN PROVIDED AT THE LOAD SIDE OF THE DISCONNECT.

2. EMPTY CONDUIT: LEAVE A #12 AWG PULL WIRE IN ALL EMPTY CONDUITS.

J. BOXES AND WIREWAYS: ALL JUNCTION BOXES, PULL BOXES, WIREWAYS, ETC, SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

K. EQUIPMENT IDENTIFICATION: PROVIDE NAMEPLATES FOR ALL PANELBOARDS, CONTROLS, AND OTHER ELECTRICAL EQUIPMENT. EQUIPMENT VISIBLE TO THE PUBLIC SHALL BE IDENTIFIED WITH ENGRAVED LAMINATED NAMEPLATES ATTACHED WITH STAINLESS STEEL FASTENERS. ELECTRICAL EQUIPMENT NOT VISIBLE TO THE PUBLIC MAY BE NEATLY IDENTIFIED WITH BLACK PERMANENT MARKERS.

PART III. EXECUTION

1. TESTS: MAKE ALL TESTS NECESSARY TO ENSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS, AND FROM SHORTED AND/OR OPEN CONDUCTORS. VOLTAGE, CURRENT, AND ROTATION TESTS SHALL BE MADE BEFORE ANY MOTORS ARE PLACED IN OPERATION. ALL LOADS SHALL BE BALANCED ACROSS PHASES. CHECK TO SEE THAT ALL LIGHTS WORK, AND ARE CONTROLLED BY SWITCHES INDICATED ON DRAWINGS, OR CIRCUIT BREAKERS SO INDICATED ON PANEL SCHEDULE.

2. GUARANTEE: FURNISH A GUARANTEE IN WRITING TO THE OWNER THAT ALL WORK EXECUTED UNDER THIS SECTION IS FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. IN ADDITION, DURING THE TERM OF THIS GUARANTEE, THE REPAIR AND/OR REPLACEMENT OF ANY DEFECTIVE WORK, AND ALL RESULTING DAMAGES SHALL BE MADE AT NO ADDITIONAL EXPENSE TO THE OWNER.

3. TEMPORARY POWER: IN THE PROJECT SPACE, PROVIDE A 100 AMP, 120/240 VOLT, SINGLE PHASE, SERVICE WITH POWER OUTLETS ADEQUATE FOR TEMPORARY CONSTRUCTION POWER. TEMPORARY LIGHTING SHALL BE MAINTAINED IN ALL AREAS OF THE TENANT SPACE UNTIL PERMANENT POWER SOURCES HAVE BEEN RESTORED. TEMPORARY SERVICE SHALL BE PROVIDED UNDER SECTION 1A OF THESE SPECIFICATIONS.

4. CLEAN-UP: LEAVE THE ELECTRICAL PORTION OF THE WORK IN A CLEAN AND FINISHED CONDITION.

5. SHOP DRAWINGS: PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS:PANELBOARDS, LIGHTING FIXTURES.

6. AS-BUILT DRAWINGS: MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PRESENT THE OWNER WITH ONE SET UPON COMPLETION. PROVIDE THE OWNER'S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE COMPLETED ELECTRICAL SYSTEM.

LIGHTING FIXTURE SCHEDULE (1)

MK	MTG.	MANUFACTURER	CATALOG No.	LAMPS No.	LAMPS TYPE	REMARKS	WATTS
A	REC	MAXLITE	MLFP-22BL-30-CS	1	LED	2X2 LED TROFFER, 5000K	35
B	REC	MAXLITE	MLFP-22BL-30-CS-EM	1	LED	2X2 LED TROFFER W/EMERG. BATT. PACK, 5000K	35
C	SURF	MAXLITE	LSV-4U-45-40	1	LED	4' VAPORTIGHT STRIPLIGHT, CLG MTD	35
G	WALL	LSI	WPSLS-04L-50-BZA	1	LED	WALLPACK, MT 10'-0" AFG	40
F	REC	LSI	LCD#4-LED-24L-UNV-DIMI-40-FL	1	LED	4" LED DOWNLIGHT	22
M	PEND	CREE	INT-EDR-PS-PD-06-E-UL-5V-350-50K	1	LED	PENDANT LED, MT 16'-0" AFF	66
N	REC	LSI	XSPS-S-LED-HD-CW-120-GWT-DFL	1	LED	LED SOFFIT LIGHT	40
X	WALL	LSI	HEM-6-18-P-WH-SD2-N	2	9W	EMERGENCY LIGHT W/2 HEADS	18
X1	W/SUR	LSI	LPRX-R-U-WH-LD11-R	2	1.1W LED	COMBINATION EXIT/EMERGENCY LIGHT	2.2
X2	WALL	LSI	2PRLED-SD2-WH	2	3.6W LED	EXTERIOR EMERGENCY LIGHT	7.2

GENERAL NOTES:
1. ALL LED LAMPS TO BE 4.0K MIN CR1 OF 80, UNLESS NOTED OTHERWISE.
2. ALL FIXTURES TO BE LISTED AND CERTIFIED WITH THE CEC DIRECTORY. AND DRIVERS TO COMPLY WITH IEC AND FCC STANDARDS.

(1) COORDINATE FIXTURE MOUNTING HEIGHT AND LOCATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS/DETAILS/ELEVATIONS PRIOR TO ROUGH-IN.

LEGEND

- X — EMERGENCY BATTERY PACK AND TWO (2) EMERGENCY LIGHT HEADS. SEE FIXTURE SCHEDULE
- X1 — SINGLE FACE EXIT LIGHT W/EMERGENCY BATTERY PACK AND TWO (2) EMERGENCY LIGHT HEADS. SEE FIXTURE SCHEDULE
- X2 — REMOTE EMERGENCY LIGHT UNIT W/TWO (2) EMERGENCY LIGHT HEADS
- A/B — 2X2 LED LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE. "NIL" INDICATES NIGHT LIGHT FIXTURE
- C — 4' LED LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- F — 4" LED LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- G — WALL MTD SECURITY LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- M — PENDANT LED FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- N — SURFACE MTD LED LIGHT FIXTURE. LETTER DENOTES MARK. SEE FIXTURE SCHEDULE.
- S — TOGGLE SWITCH - SINGLE POLE - HUBBEL #HBL1221-I.
- S3 — TOGGLE SWITCH - 3-WAY - HUBBEL #HBL1223-I.
- Sos — LEGRAND: DSW-301 OCCUPANCY SENSOR W/SWITCH OVERRIDE, MT 48" AFF, UON.
- Sm — MANUAL MOTOR STARTER W/OVERLOADS.
- DUPLEX RECEPTACLE; MT 18" AFF, UON.
- WP/GFI — DUPLEX RECEPTACLE - IN WEATHER PROOF ENCLOSURE OR COVER, GROUND FAULT INTERUPTER. MT 18" AFF, UON.
- QUAD RECEPTACLE 18" AFF UNO. HUBBEL-2- # 5362-1
- IG — DUPLEX RECEPTACLE - ISOLATED GROUND SURGE PROTECTED - HUBBELL #IG-5362-OSP FOR POS EQUIP. & PRINTERS
- DUPLEX RECEPTACLE; MTD WITHIN FLUSH, FLOOR OUTLET BOX.
- 208/120 CPI ELECTRICAL DISTRIBUTION SYSTEM
- DISCONNECT SWITCH RATINGS AND SIZE AS NOTED.
- (3) — SEE ELECTRICAL NOTES.
- AFF — ABOVE FINISHED FLOOR.
- AFG — ABOVE FINISHED GRADE.
- EC — ELECTRICAL CONTRACTOR
- GFI — GROUND FAULT INTERRUPTING
- IG — ISOLATED GROUND
- MT — MOUNT
- MTD — MOUNTED
- WP — WEATHERPROOF
- UON — UNLESS NOTED OTHERWISE.
- A-3 — CONDUIT RUN CONCEALED IN WALLS, ABOVE CLG, OR RUN EXPOSED SPACES. ARROWS INDICATE HOMERUNS. SUBSCRIPT INDICATES PANEL AND CIRCUIT NUMBERS. SLASH MARKS INDICATE NUMBER OF #12 CONDUCTORS. NO SLASH MARKS INDICATE 2#12, 1#12G-3/4"C, UON.
- CONDUIT RUN UNDER GROUND, OR UNDER NEATH FLOOR SLAB
- (J) — JUNCTION OR OUTLET BOX.
- TELEPHONE OUTLET, WALL TYPE, 18" AFF U.N.O ON PLANS WITH 3/4 " EMPTY CONDUIT TO 6" ABOVE CEILING. PROVIDE PULL WIRE.
- DATA OUTLET, HEIGHT AS NOTED ON PLANS WITH 3/4 " EMPTY CONDUIT TO 6" ABOVE CEILING. PROVIDE PULL WIRE.

ARCHITECT OF RECORD:
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1 ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.29.22	ISSUED FOR CONSTRUCTION
1 05.24.22	PER COMMENTS

DRAWN BY: BAM
CHK'D BY: JFM

PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
ELECTRICAL LEGEND & SPECS

PROJECT NO: 21035

E000

PROJ: C-STORE-DORAVILLE, GA — PANEL: MDP — DATED: 04/ 29/ 2022 — REVS: 00 X

208 VOLT- LL	22 K-AIC RATING	ENCLOSURE TYPE:	NEMA 1
120 VOLT- LN	3 PHASE 4 W	BRANCH OCP TYPE:	M.C BKRS
600 BUSS AMPS	MLO MAIN OCP	GENERAL NOTES:	SURFACE MTD

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		PANEL L1	A	13000	150 /	-	1	A	2	150 /	-	10000	L	PANEL L2		
		---	A	12000	- /	-	3	B	4	- /	-	12000	L	---		
		---	A	13000	- /	3	5	C	6	- /	3	9000	L	---		
		PANEL L3	M	9000	100 /	-	7	A	8	80 /	-	8000	A	PANEL L4		
		---	M	3000	- /	-	9	B	10	- /	-	6000	R	---		
		---	M	3000	- /	3	11	C	12	- /	3	6000	A	---		
	1	COOLER COND., #7	C	3924	50 /	-	13	A	14	40 /	-	2952	C	RTU-1	1	
		---	C	3924	- /	-	15	B	16	- /	-	2952	C	---		
		---	C	3924	- /	3	17	C	18	- /	3	2952	C	---		
	1	BEER CLR/CV COND, #9	C	3600	40 /	-	19	A	20	40 /	-	2952	C	RTU-2	1	
		---	C	3600	- /	-	21	B	22	- /	-	2952	C	---		
		---	C	3600	- /	3	23	C	24	- /	3	2952	C	---		
	2	ELEVATOR	M	1872	20 /	-	25	A	26	40 /	-	2952	C	RTU-3	1	
		---	M	1872	- /	-	27	B	28	- /	-	2952	C	---		
		---	M	1872	- /	3	29	C	30	- /	3	2952	C	---		
		LTG/CTLS-ELEVATOR	M	500	20 /	1	31	A	32	/				SPACE		
		KSF-1	H	718	15 /	-	33	B	34	/				SPACE		
		---	H	718	- /	2	35	C	36	/				SPACE		
		KEF-1	H	792	15 /	-	37	A	38	/				SPACE		
		---	H	792	- /	-	39	B	40	/				SPACE		
		---	H	792	- /	3	41	C	42	/				SPACE		

NT# 1. HACR TYPE CIRCUIT BREAKER (CB).
2. PROVIDE SHUNT TRIP TYPE CB.

PHS-A	60 KVA	496	37%	FACTORED END-USE	152.9 KVA		424 A
PHS-B	53 KVA	440	32%	PASS THRU LOAD	0.0 KVA		0 A
PHS-C	51 KVA	423	31%	SPARE	15.3 KVA	10%	42 A
SUM	163 KVA	453 AMPS		GRAND TOTALS	168.2		467 A

PROJ: C-STORE-DORAVILLE, GA — PANEL: L1 — DATED: 04/ 29/ 2022 — REVS: 00 X

208 VOLT- LL	22 K-AIC RATING	ENCLOSURE TYPE:	NEMA 1
120 VOLT- LN	3 PHASE 4 W	BRANCH OCP TYPE:	M.C BKRS
225 BUSS AMPS	MLO MAIN OCP	GENERAL NOTES:	SURFACE MTD

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
	1	REC-NC-FBD, #19	A	1584	20 /	1	1	A	2	20 /	-	624	A	REC-HTD MERCH, #21		
	1	REC-PIZZA REFRIG, #25	A	420	20 /	1	3	B	4	- /	2	624	A	---		
	1	REC-RI REFRIG, #22	A	300	20 /	1	5	C	6	20 /	1	1200	R	REC-GAMES		
		RTU SD	M	300	20 /	1	7	A	8	20 /	1	1080	R	REC-OFFICE, 2ND FLR		
		REC-DRINK MACH, #16	A	840	20 /	1	9	B	10	20 /	1	612	H	ACF-1		
	1	REC-ICE MAKER, #17	A	1416	20 /	1	11	C	12	20 /	1	1080	R	REC-SMKE RM,SALES		
		REC-GAMES	M	1200	20 /	1	13	A	14	20 /	1	1080	R	REC-SMKE RM,SALES		
		REC-TELCO	R	500	20 /	1	15	B	16	20 /	1	1080	R	REC-CASHIER COUNTER		
		REC-SALES, WORK RM	R	1080	20 /	1	17	C	18	20 /	1	720	R	REC-JAN/RR'S		
	1	COOLER FAN COIL, #8	A	1152	20 /	1	19	A	20	20 /	-	1144	H	RCP-1		
	1	REC-RI UC FRZR. #23	A	900	20 /	1	21	B	22	- /	2	1144	H	---		
		REC-ROOF	R	720	20 /	1	23	C	24	20 /	1	1800	H	SP-1		
		REC-HTD MERCH, #20	A	1764	20 /	1	25	A	26	20 /	1	900	A	REC-OFFICE, 2ND FLR		
	1	REC-FBD, #18	A	2080	30 /	1	27	B	28	20 /	1	900	A	REC-2ND FLR		
		---	A	2080	- /	2	29	C	30	20 /	1			SPARE		
		REC-GAMES	M	1200	20 /	1	31	A	32	20 /	1	200	R	WH CTLS		
		REC-GAMES	M	1200	20 /	1	33	B	34	20 /	1	500	A	EXHAUST HOOD, #29	2	
	1	BEER CLR COIL, #10B	A	884	20 /	-	35	C	36	20 /	1			SPARE		
		---	A	884	- /	2	37	A	38	20 /	1			SPARE		
	1	BEER CAVE COIL, #10A	A	1227	20 /	-	39	B	40	20 /	1			SPARE		
		---	A	1227	- /	2	41	C	42	20 /	1			SPARE		

NT# 1. PROVIDE HACR TYPE CIRCUIT BREAKER (CB).
2. PROVIDE LOCK-ON DEVICE ON CB.

PHS-A	13 KVA	109	35%	FACTORED END-USE	30.5 KVA		85 A
PHS-B	12 KVA	100	32%	PASS THRU LOAD	0.0 KVA		0 A
PHS-C	13 KVA	104	33%	SPARE	3.1 KVA	10%	8 A
SUM	38 KVA	104 AMPS		GRAND TOTALS	33.6		93 A

PROJ: C-STORE-DORAVILLE, GA — PANEL: L2 — DATED: 04/ 29/ 2022 — REVS: 00 X

208 VOLT- LL	22 K-AIC RATING	ENCLOSURE TYPE:	NEMA 1
120 VOLT- LN	3 PHASE 4 W	BRANCH OCP TYPE:	M.C BKRS
225 BUSS AMPS	MLO MAIN OCP	GENERAL NOTES:	SURFACE MTD

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		LTG-POLE MTD	L	270	20 /	-	1	A	2	20 /	1	1584	L	LTG-SALES		
		---	L	270	- /	2	3	B	4	20 /	1	1457	L	LTG-KIT,SS,RR'S,CASH		
		SPARE			20 /	-	5	C	6	20 /	1	1422	L	LTG-CLRS, BEER CAVE		
		---			- /	2	7	A	8	20 /	1	500	L	LTG CONTACTOR, LC-1		
		LTG-AUTO CANOPY	L	1320	20 /	-	9	B	10	20 /	1	696	L	TEF-1		
		---	L	1320	- /	2	11	C	12	20 /	1	1403	L	LTG-DRS/HTRS,#3		
		LTG-AUTO FASCIA	L	1000	20 /	1	13	A	14	20 /	1	1603	L	LTG-DRS/HTRS,#4 & 6		
		AIR/VACUUM	M	1500	20 /	1	15	B	16	20 /	1	1682	L	LTG-2ND FLOOR		
		SPARE			20 /	1	17	C	18	20 /	1	680	L	LTG-WALLPACKS		
		SPARE			20 /	1	19	A	20	20 /	-	1000	L	LTG-MONUMENT SIGN		
		SPARE			20 /	1	21	B	22	- /	2	1000	L	---		
		SPARE			20 /	1	23	C	24	20 /	1	480	M	BEER CAVE DR, #5		
		REC-SHOW WINDOW	L	1200	20 /	1	25	A	26	20 /	1	215	R	LTG & REC-ELEV PIT		
		REC-SHOW WINDOW	L	1200	20 /	1	27	B	28	20 /	1	215	R	LTG & REC-ELEV EQ RM		
		REC-SHOW WINDOW	L	1200	20 /	1	29	C	30	20 /	1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20 /	1	31	A	32	20 /	1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20 /	1	33	B	34	20 /	1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20 /	1	35	C	36	20 /	1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20 /	1	37	A	38	20 /	1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20 /	1	39	B	40	20 /	1			SPARE		
		LTG-INTERIOR SIGN	L	1200	20 /	1	41	C	42	20 /	1			SPARE		

NT#

PHS-A	10 KVA	81	32%	FACTORED END-USE	37.4 KVA		104 A
PHS-B	12 KVA	98	39%	PASS THRU LOAD	0.0 KVA		0 A
PHS-C	9 KVA	74	29%	SPARE	3.7 KVA	10%	10 A
SUM	30 KVA	84 AMPS		GRAND TOTALS	41.2		114 A

PROJ: C-STORE-DORAVILLE, GA — PANEL: L3 — DATED: 04/ 29/ 2022 — REVS: 00 X

208 VOLT- LL	10 K-AIC RATING	ENCLOSURE TYPE:	NEMA 1
120 VOLT- LN	3 PHASE 4 W	BRANCH OCP TYPE:	M.C BKRS
125 BUSS AMPS	MLO MAIN OCP	GENERAL NOTES:	SURFACE MTD, NOTE 1

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		REC-POS/GAS CONSOLE	M	500	20 /	1	1	A	2	20 /	-	720	M	AUTO FUEL DISP. #1		
		SPACE			/		3	B	4	- /	2			FOR SWITCHED NEUTRAL		
		SPACE			/		5	C	6	/				SPACE		
		REC-POS/GAS CONSOLE	M	500	20 /	1	7	A	8	20 /	-	720	M	AUTO FUEL DISP. #2		
		SPACE			/		9	B	10	- /	2			FOR SWITCHED NEUTRAL		
		SPACE			/		11	C	12	/				SPACE		
		REC-COMPUTER, OFFICE	M	500	20 /	1	13	A	14	20 /	-	720	M	AUTO FUEL DISP. #3		
		SPACE			/		15	B	16	- /	2			FOR SWITCHED NEUTRAL		
		SPACE			/		17	C	18	/				SPACE		
		REC-POS, FOOD SERV	M	500	20 /	1	19	A	20	20 /	-	720	M	AUTO FUEL DISP. #4		
		SPACE			/		21	B	22	- /	2			FOR SWITCHED NEUTRAL		
		SPACE			/		23	C	24	/				SPACE		
		REC-COMPUTER, OFFICE	M	500	20 /	1	25	A	26	20 /	-	720	M	AUTO FUEL DISP. #5		
		SPACE			/		27	B	28	- /	2			FOR SWITCHED NEUTRAL		
		SPACE			/		29	C	30	/				SPACE		
		UL SUBPUMP	M	1140	20 /	-	31	A	32	/				SPACE		
		---	M	1140	- /	2	33	B	34	/				SPACE		
		REG SUBPUMP	M	1140	20 /	-	35	C	36	/				SPACE		
		---	M	1140	- /	2	37	A	38	20 /	1	500	M	INTERFACE		
		DIESEL SUBPUMP	M	1140	20 /	-	39	B	40	20 /	1	500	M	EMERG STOP CTLS		
		---	M	1140	- /	2	41	C	42	20 /	1	500	M	VEEDER ROOT		

NT# 1. PROVIDE W/ISOLATED GROUND BUS.

PHS-A	9 KVA	74	61%	FACTORED END-USE	13.6 KVA		38 A
PHS-B	3 KVA	23	19%	PASS THRU LOAD	0.0 KVA		0 A
PHS-C	3 KVA	23	19%	SPARE	1.4 KVA	10%	4 A
SUM	14 KVA	40 AMPS		GRAND TOTALS	14.9		41 A

PROJ: C-STORE-DORAVILLE, GA — PANEL: L4 — DATED: 04/ 29/ 2022 — REVS: 00 X

208 VOLT- LL	10 K-AIC RATING	ENCLOSURE TYPE:	NEMA 1
120 VOLT- LN	3 PHASE 4 W	BRANCH OCP TYPE:	M.C BKRS
100 BUSS AMPS	MLO MAIN OCP	GENERAL NOTES:	SURFACE MTD, NOTE 1

R	N	DESCRIPTION	LT	W/VA	AMP	P	#	P	#	AMP	P	W/VA	LT	DESCRIPTION	N	R
		REC-COFFEE BRWR, #36	A	2496	30 /	-	1	A	2	20 /	1	1000	A	REC-CREAM DISP, #38		
		---	A	2496	- /	2	3	B	4	20 /	1	1000	A	REC-CREAM DISP, #38		
		REC-COFFEE BRWR, #36	A	2496	30 /	-	5	C	6	20 /	1	1000	R	REC-FLOOR BOX		
		---	A	2496	- /	2	7	A	8	20 /	1	1000	R	REC-FLOOR BOX		
		REC-CAPPUCINO, #37	A	1800	20 /	1	9	B	10	20 /	1	1000	R	REC-FLOOR BOX		
		REC-CAPPUCINO, #37	A	1800	20 /	1	11	C	12	20 /	1	1000	R	REC-FLOOR BOX		
		SPARE			20 /	1	13	A	14	20 /	1	1000	R	REC-FLOOR BOX		
		SPARE			20 /	1	15	B	16	20 /	1			SPARE		
		SPARE			20 /	1	17	C	18	20 /	1			SPARE		
					/		19	A	20	/						
					/		21	B	22	/						
					/		23	C	24	/						
					/		25	A	26	/						
					/		27	B	28	/						
					/		29	C	30	/						
					/		31	A	32	/						
					/		33	B	34	/						
					/		35	C	36	/						
					/		37	A	38	/						
					/		39	B	40	/						
					/		41	C	42	/						

NT# 1. PROVIDE 18 POLE PANEL.

PHS-A	8 KVA	67	39%	FACTORED END-USE	15.1 KVA		42 A
PHS-B	6 KVA	52	31%	PASS THRU LOAD	0.0 KVA		0 A
PHS-C	6 KVA	52	31%	SPARE	1.5 KVA	10%	4 A
SUM	21 KVA	57 AMPS		GRAND TOTALS	16.6		46 A

RISER NOTES

1. PROVIDE 2 SETS–4#350KCMIL–3"C. (600A SERVICE)
2. PROVIDE 2 SETS–4#350KCMIL, 1 #2/0G – 3"C.
3. PROVIDE 4 #3, 1 #8G, 1#8IG – 1 1/4"C .
4. PROVIDE 16–POLE, WITH 208/120V, 20A CONTACTS IN NEMA 1 ENCLOSURE.
5. PROVIDE 4#1/0, 1#6G – 1 1/2"C.
6. EC SHALL VERIFY THE REQUIREMENT AND LOCATION FOR THIS EQUIPMENT.
7. PROVIDE 4#4, 1#10G – 1 1/4"C.
8. PROVIDE 600A, METER BASE. METER PROVIDED BY POWER COMPANY.
9. PROVIDE 600A, 208V, 3P DISCONNECT SWITCH W/NEMA 3R ENCLOSURE AND 600A RK FUSES, RATED FOR SERVICE ENTRANCE.
10. STUB CONDUIT OUT 5'–0" FROM FOUNDATION. MARK AND CAP END OF CONDUIT FOR CONNECTION BY OTHERS.
11. CONTRACTOR SHALL CONFIRM QUANTITY OF FUEL DISPENSERS, TANK PUMPS, POLE LIGHTS AND SIGNS BEFORE ROUGHIN–IN CONDUIT.
12. PROVIDE 24–HR, 7–DAY, ASTRONOMICAL TIME CLOCK W/PHOTOCELL AND CONNECT TO LC–1.

FAULT CURRENT CALCULATION

SERVICE IS BASED ON AN ESTIMATED 225KVA, PAD MOUNTED TRANSFORMER WITH A FAULT CURRENT OF 34722 AMPS AT THE TRANSFORMER SECONDARY (FROM XFMR FC TABLE).

1. @ MAIN DS: L = 60, E = 208; I_{sc} = 34722, C = 18868 (#350MCM CU)

f = (1.732 x 60 x 34722)/(2 x 18868) X 208 =0.460

1/1.460= 0.685

I@MDS = .685 x 34722 = 23782 AMPS

2. @ PANEL MDP: LET–THRU 600A RK1 FUSES: I_{sc} = 12000, L = 15, E = 208; C = 18868 (#350KCMIL CU)

f = (1.732 x 15 x 12000)/2 X 18868 X 208 =0.040

1/1.040= 0.962
I@MDP = .962 x 12000 = 11538 AMPS
THEREFORE, MINIMUM AIC RATING IS 22000* FOR MDP.

FAULT CURRENT CALCULATION

3. @ PANEL L1: L = 5, E = 208; I_{sc} = 11538, C = 7692 (#1/0 CU)

f = (1.732 x 5 x 11538)/7692 X 208 =0.062

1/1.062= 0.942

I@L1 = .942 x 11538 = 10864 AMPS
THEREFORE, MINIMUM AIC RATING IS 22000* FOR L1.

4. @ PANEL L2: L = 5, E = 208; I_{sc} = 11538, C = 7692 (#1/0 CU)

f = (1.732 x 5 x 11538)/7692 X 208 =0.062

1/1.062= 0.942

I@L2 = .942 x 11538 = 10864 AMPS
THEREFORE, MINIMUM AIC RATING IS 22000* FOR L2.

5. @ PANEL L3: L = 10, E = 208; I_{sc} = 11538, C = 4167 (#3 CU)

f = (1.732 x 10 x 11538)/4167 X 208 =0.231

1/1.231= 0.812

I@L3 = .812 x 11538 = 9373 AMPS
THEREFORE, MINIMUM AIC RATING IS 10000* FOR L3.

6. @ PANEL L4: L = 45, E = 208; I_{sc} = 11538, C = 3333 (#4 CU)

f = (1.732 x 45 x 11538)/3333 X 208 =1.297

1/2.297= 0.435

I@L4 = .435 x 11538 = 5023 AMPS
THEREFORE, MINIMUM AIC RATING IS 10000* FOR L4.

* CONTRACTOR SHALL VERIFY FAULT CURRENT AVAILABLE FROM POWER COMPANY TRANSFORMER AND MAKE ADJUSTMENTS TO EQUIPMENT AIC RATING AS REQUIRED.

PANELS MDP, 'L1', L2, L3 & L4 LOAD SUMMARY

	CONN VA				DEMAND VA
PANEL'MDP':					
LIGHTING:	28000	x	125%	=	35000
RECEPTACLE:	14100	x	85%	=	12050
HVAC:	35080	x	100%	=	35080
REFRIGERATION:	22572	x	100%	=	22572
ELEVATOR:	5616	x	100%	=	5616
FOOD SERV:	35900	x	65%	=	23335
FUEL SERV EQ:	8880	x	100%	=	8880
MISC:	6400	x	80%	=	5120
TOTAL PANEL 'MDP'	156548/360= 435A				147653/360= 410A

410A x 125% = 513A
THEREFORE, SIZE PANEL 'MDP', PANEL FEEDER, PANEL MAIN DISCONNECT SWITCH FOR 600A .

	CONN VA				DEMAND VA
PANEL'L1':					
RECEPTACLE:	8700	x	100%	=	8700
HVAC:	4700	x	100%	=	4700
MISC:	3900	x	100%	=	3900
FOOD SERV EQ:	20300	x	65%	=	13195
TOTAL PANEL 'L1'	37600/360= 104A				30495/360= 85A

85A x 125% = 106A
THEREFORE, SIZE PANEL 'L1', PANEL FEEDER, PANEL FEEDER CIRCUIT BREAKER FOR 150A.

	CONN VA				DEMAND VA
PANEL'L2':					
RECEPTACLE:	400	x	100%	=	400
LIGHTING:	28000	x	125%	=	35000
MISC:	2000	x	80%	=	1600
TOTAL PANEL 'L2'	30400/360= 84A				37000/360= 103A

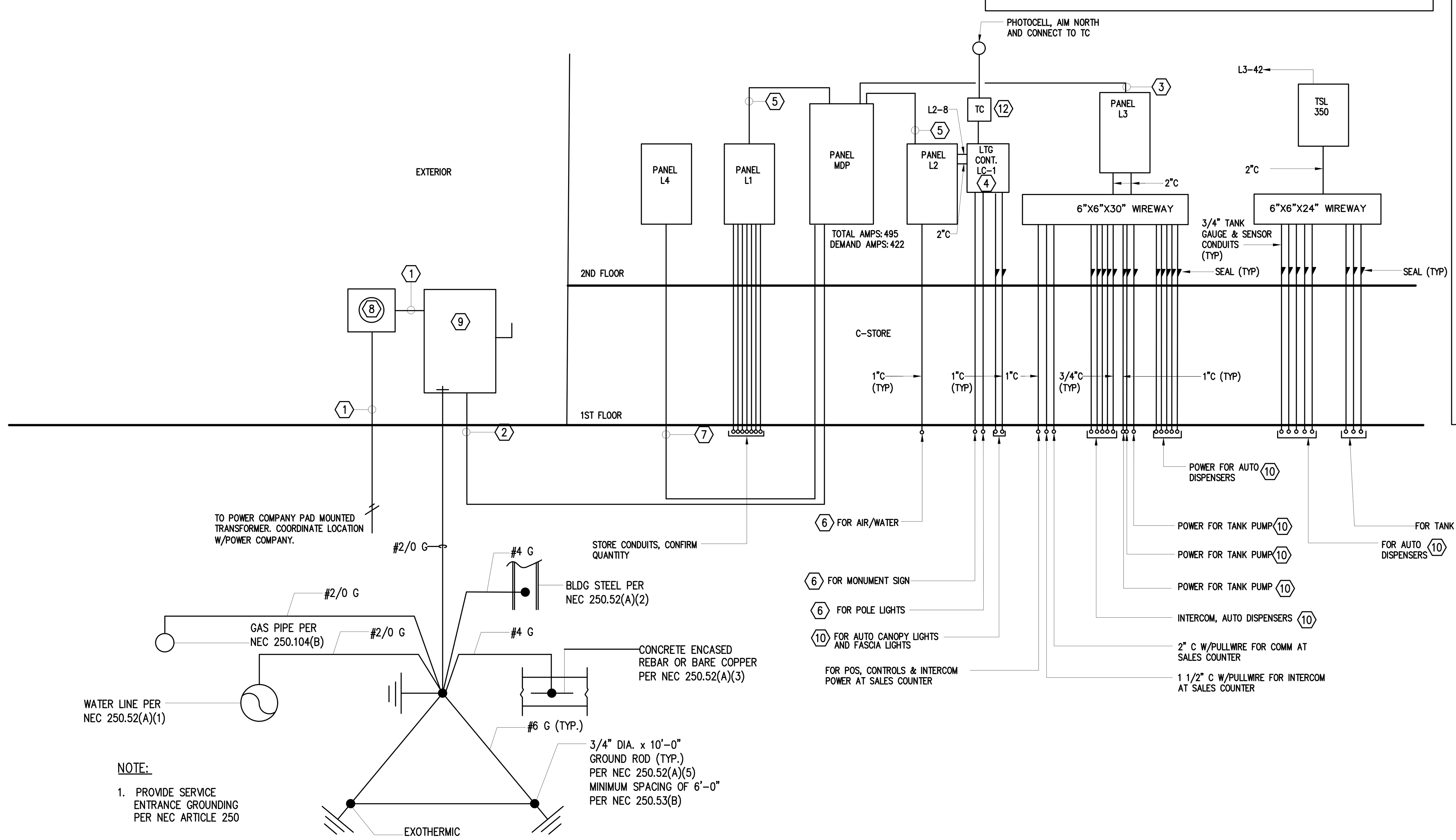
103A x 125% =128A
THEREFORE, SIZE PANEL 'L2', PANEL FEEDER, PANEL FEEDER CIRCUIT BREAKER FOR 150A.

	CONN VA				DEMAND VA
PANEL'L3':					
FUEL SERV EQ:	8880	x	100%	=	8880
TOTAL PANEL 'L3'	8880/120= 74A				8880/120= 74A

74A x 125% = 93A
THEREFORE, SIZE PANEL 'L3', PANEL FEEDER, PANEL FEEDER CIRCUIT BREAKER FOR 100A.

	CONN VA				DEMAND VA
PANEL'L4':					
RECEPTACLE:	5000	x	100%	=	5000
FOOD SERV EQ:	15600	x	65%	=	10140
TOTAL PANEL 'L4'	2060/360= 57A				15140/360= 42A

42A x 125% = 53A
THEREFORE, SIZE PANEL 'L4', PANEL FEEDER, PANEL FEEDER CIRCUIT BREAKER FOR 80A.



NOTE:
1. PROVIDE SERVICE ENTRANCE GROUNDING PER NEC ARTICLE 250

1 E001 C-STORE RISER DIAGRAM (11) NTS

ARCHITECT OF RECORD:
THOMAS E. MORGAN, JR. ARCHITECT
423 FISCHER TRAIL
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SEAL: GEORGIA REGISTERED NO.10443 PROFESSIONAL ENGINEER JESSE F. McCULLOUGH 04/29/2022

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DRAWN BY: BAM
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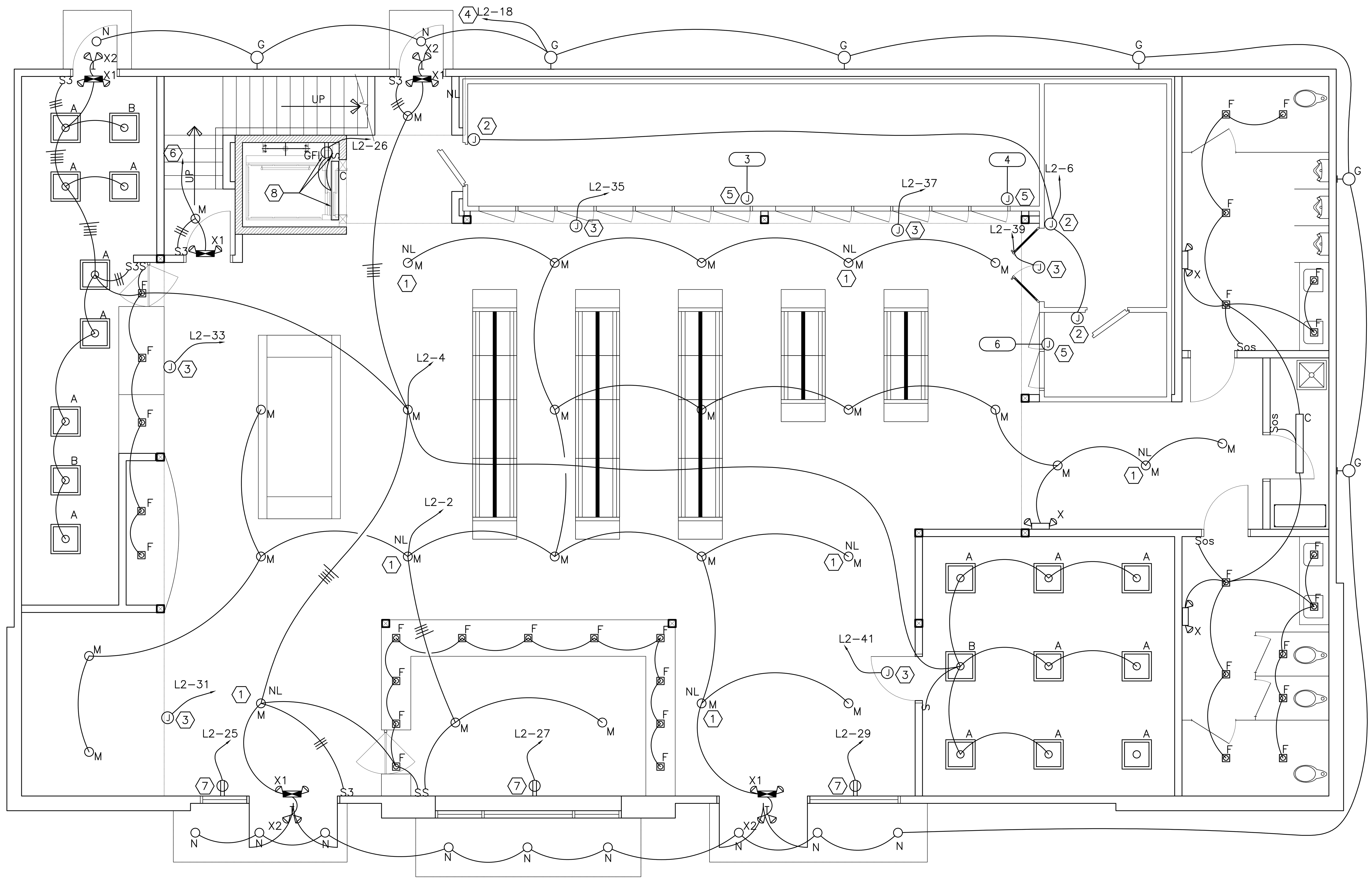
PROJECT TITLE: C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE: PANEL SCHEDULES, RISER DIAGRAM & CALCS

PROJECT NO: 21035

E001



1 E100 C-STORE LIGHTING PLAN-1st FLOOR
1/4"=1'-0"

GENERAL NOTES:

1. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, INCLUDING OTHER DISCIPLINES, AND THE SCOPE OF WORK TO BE COMPLETED. FULLY COORDINATE BETWEEN ALL DISCIPLINE PLANS AND THE WORK TO BE COMPLETED.
2. VERIFY ALL LIGHT FIXTURE LOCATIONS WITH REFLECTED CEILING PLAN A103. LOADING SHALL NOT EXCEED 1800VA. FURNISH AND INSTALL ALL MATERIAL AND LABOR, INCLUDING BUT NOT LIMITED TO, CONDUIT, WIRE, CIRCUIT BREAKERS, HANGERS, SWITCHES ETC., AS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. FOR LEGEND AND LIGHTING FIXTURE SCHEDULE, SEE DRAWING E000.
4. ALL LIGHT SWITCHES SHALL BE 120/277V, SINGLE-POLE, SINGLE-THROW, UON.
5. EXIT/EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF ROOM/AREA SWITCH, PER NEC ARTICLE 700-12(F).
6. GENERALLY, THE CIRCUITING SHOWN SHALL GO TO PANEL AND CIRCUIT INDICATED. HOWEVER, IF CIRCUITS ARE SHIFTED TO OTHER CIRCUIT NUMBERS IN THAT PANEL, CIRCUIT BALANCING, SHARED NEUTRAL AND PHASING SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.

KEYED NOTES:

1. CONNECT NL LIGHT FIXTURE AHEAD OF SWITCH.
2. LIGHT FIXTURES W/SWITCH, PROVIDED W/DRINK COOLER/BEER CAVE. EC SHALL INSTALL AS REQUIRED AND CONNECT TO DRINK COOLER/BEER CAVE J-BOX.
3. PROVIDE J-BOX FOR INTERIOR SIGN. COORDINATE SIGN LOCATION W/SIGN SUPPLIER/INSTALLER/OWNER AND VERIFY SIGN ELECTRICAL LOADS. PROVIDE FINAL CONNECTION FROM J-BOX TO SIGN.
4. ROUTE CIRCUIT THRU LC-1.
5. SAME AS NOTE #2 FOR COOLER DOOR LIGHTS.
6. TO FIXTURE 'M' ON 2ND FLOOR, SEE DRAWING E101 FOR CONTINUATION.
7. MOUNT RECEPTACLE ON WALL WITHIN 18" OF TOP OF WINDOW.
8. COORDINATE WITH AND MOUNT SWITCH, RECEPTACLE AND FIXTURE IN PIT PER ELEVATOR DRAWINGS. DO NOT CONNECT FIXTURE TO LOAD SIDE OF GFI RECEPTACLE.

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

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ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.29.22	ISSUED FOR CONSTRUCTION
05.24.22	PER COMMENTS

DRAWN BY: BAM
CHK'D BY: JFM

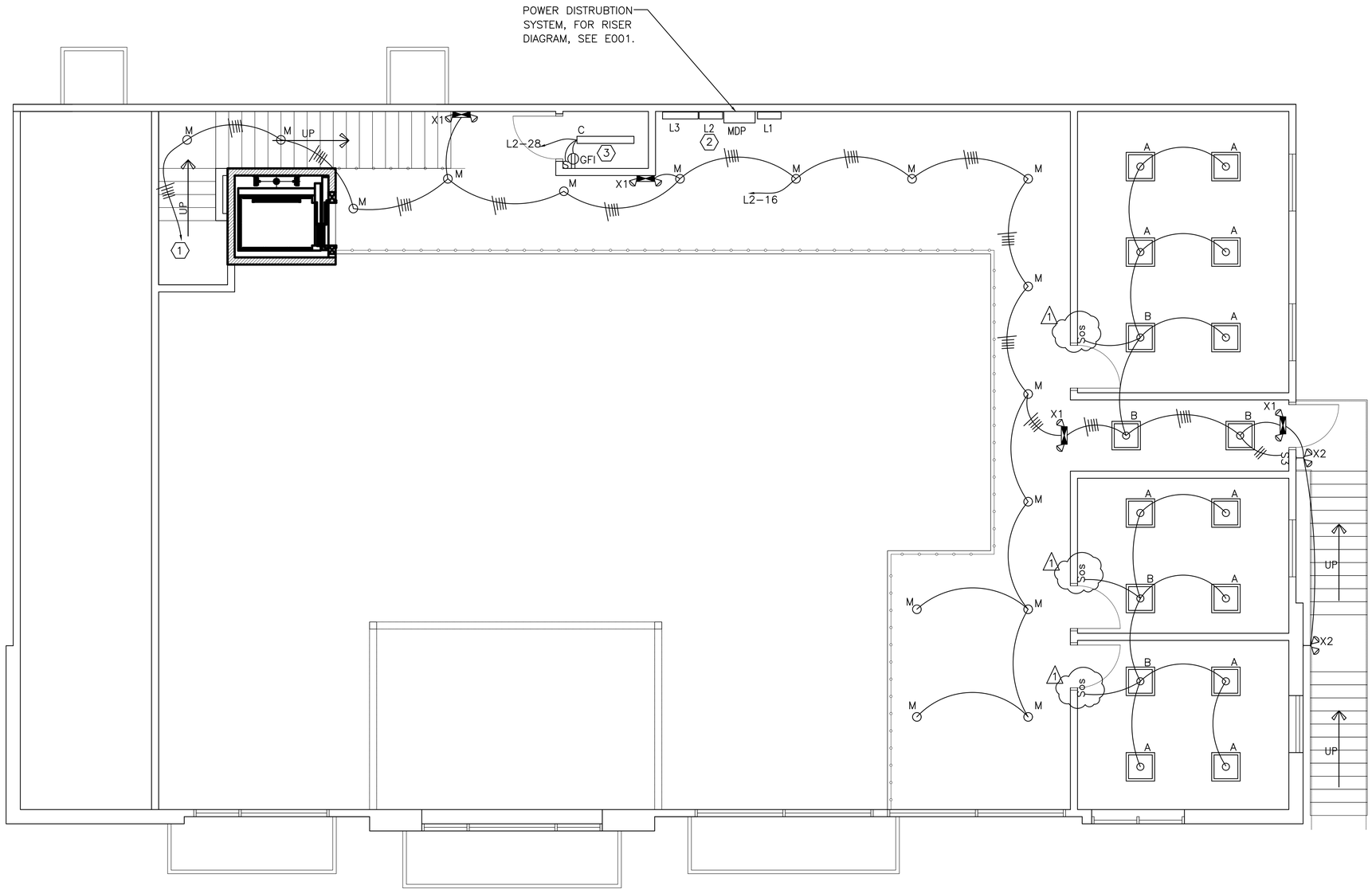
PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
LIGHTING PLAN - 1st FLOOR

PROJECT NO: 21035

E100



1 E101 C-STORE LIGHTING PLAN-2nd FLOOR
1/4"=1'-0"

GENERAL NOTES:

1. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, INCLUDING OTHER DISCIPLINES, AND THE SCOPE OF WORK TO BE COMPLETED. FULLY COORDINATE BETWEEN ALL DISCIPLINE PLANS AND THE WORK TO BE COMPLETED.
2. VERIFY ALL LIGHT FIXTURE LOCATIONS WITH REFLECTED CEILING PLAN A103. LOADING SHALL NOT EXCEED 1800VA. FURNISH AND INSTALL ALL MATERIAL AND LABOR, INCLUDING BUT NOT LIMITED TO, CONDUIT, WIRE, CIRCUIT BREAKERS, HANGERS, SWITCHES ETC., AS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. FOR LEGEND AND LIGHTING FIXTURE SCHEDULE, SEE DRAWING E000.
4. ALL LIGHT SWITCHES SHALL BE 120/277V, SINGLE-POLE, SINGLE-THROW, UON.
5. EXIT/EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF ROOM/AREA SWITCH, PER NEC ARTICLE 700-12(F).
6. GENERALLY, THE CIRCUITING SHOWN SHALL GO TO PANEL AND CIRCUIT INDICATED. HOWEVER, IF CIRCUITS ARE SHIFTED TO OTHER CIRCUIT NUMBERS IN THAT PANEL, CIRCUIT BALANCING, SHARED NEUTRAL AND PHASING SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.

KEYED NOTES:

1. TO FIXTURE 'M' ON 1ST FLOOR, SEE DRAWING E100.
2. ROUTE CONDUIT FOR SITE LIGHTING (AREA POLE LIGHTS, CANOPY LIGHTS, CANOPY FASCIA LIGHTS AND SITE PYLON SIGN) FROM LIGHTING CONTRACTOR, LC-1, DOWN INSIDE EXTERIOR WALL TO UNDER GROUND. EXTEND CONDUIT/CIRCUITS TO THE SITE LIGHTING LISTED ABOVE AND CONNECT.
3. DO NOT CONNECT FIXTURE TO LOADSIDE OF RECEPTACLE.

ARCHITECT OF RECORD:

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ISSUES / REVISIONS:

DATE	DESCRIPTION
04.29.22	1 ISSUED FOR CONSTRUCTION
05.24.22	RDV COMMENTS

DRAWN BY: BAM

CHK'D BY: JFM

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

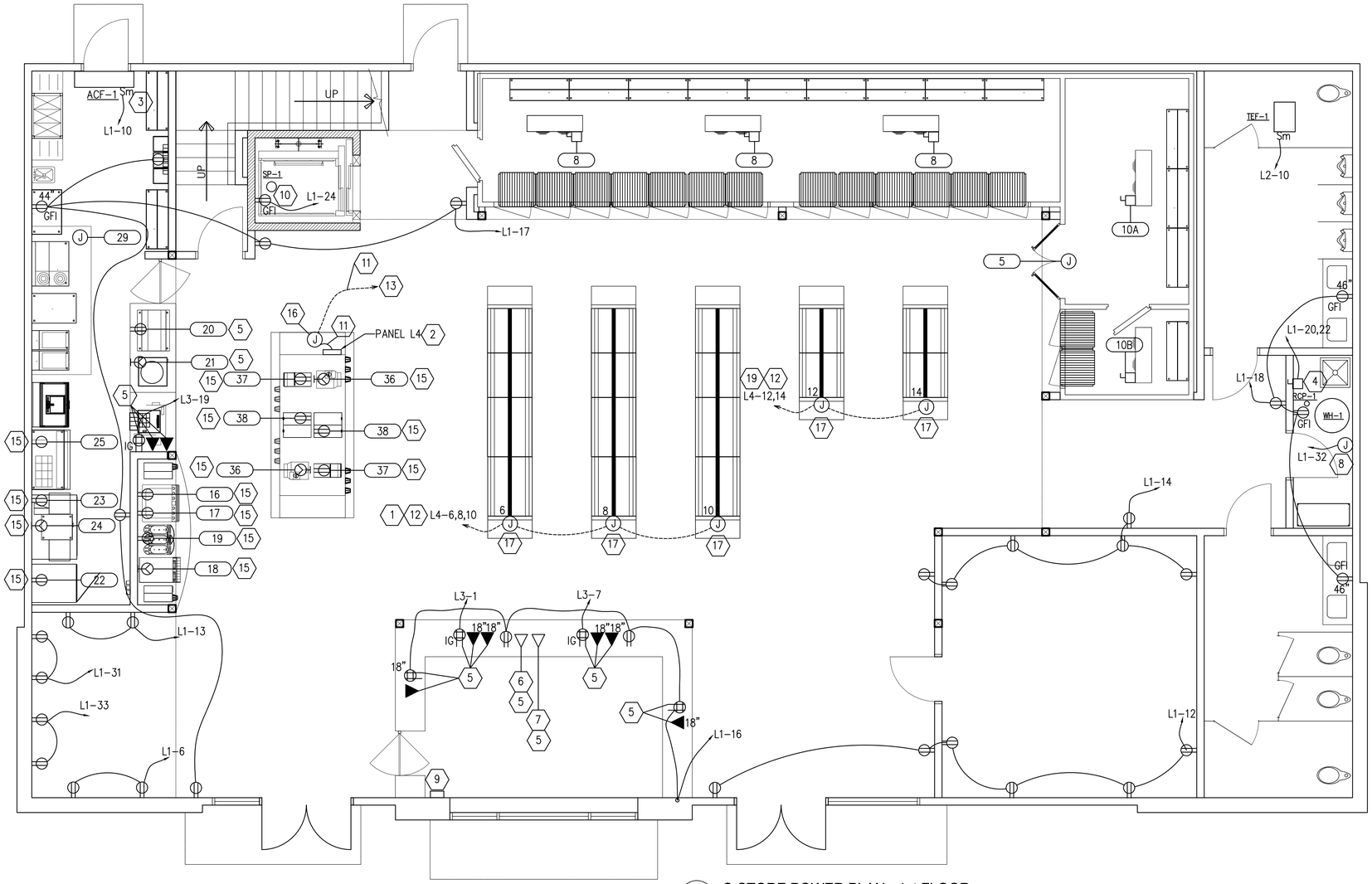
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

LIGHTING PLAN - 2nd FLOOR

PROJECT NO: 21035

E101



1 E200 C-STORE POWER PLAN - 1st FLOOR
1/4"=1'-0"

C-STORE SELF-SERVE FOOD SERVICE EQUIPMENT

ITEM NO.	QTY	DESCRIPTION	ELECTRICAL												
			VOLTS	PHASE	KW	HP	FLA	CIRCUIT DESIG	BREAKER AMPS	BREAKER POLE	FEEDER	DIRECT PLUG	PLUG TYPE		NOTES
1	1	13-DR COOLER LTS	120	1			6.93	L2-6	20	1	2#12, 1#12G-3/4"C	X			1
2	1	BEER CAVE LTS	120	1			3.75	L2-6	20	1	2#12, 2#12G-3/4"C	X			1
3	7	13-DR COOLER DR LTS/HTR	120	1			11.7	L2-12	20	1	2#12, 2#12G-3/4"C	X			1
4	6	13-DR COOLER DR LTS/HTR	120	1			10.0	L2-14	20	1	2#12, 1#12G-3/4"C	X			1
5	1	BEER CAVE DR HTR	120	1			4.00	L2-24	20	1	2#12, 2#12G-3/4"C	X			
6	2	2-DR COOLER DR LTS/HTRS	120	1			3.34	L2-14	20	1	2#12, 1#12G-3/4"C	X			1
7	1	13-DR COOLER COND UNIT	208	3			32.7	MDP-13,15,17	50	3	3#8, 1#10G-3/4"C	X		60/3/NF/3R	2,4,6
8	3	13-DR COOLER FAN COILS	120	1			9.60	L1-19	20	1	2#12, 2#12G-3/4"C	X		30/1/NF/3R	3
9	1	BEER COOLER COND UNIT	208	3			30.0	MDP-19,21,23	40	3	3#8, 1#10G-3/4"C	X		60/3/NF/3R	2,4,6
10A	1	BEER COOLER EVAP COILS	208	1			11.8	L1-39,41	20	2	2#12, 1#12G-3/4"C	X		30/2/NF/3R	3
10B	1	BEER CAVE EVAP COILS	208	1			8.50	L1-35,37,	20	2	2#12, 1#12G-3/4"C	X		30/2/NF/3R	3
16	1	DRINK MACHINE	120	1			7.00	L1-9	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
17	1	ICE MAKER	120	1			11.8	L1-11	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
18	1	CARB-FBD	208	1			20.0	L1-27,29	30	2	2#10, 1#10G-3/4"C		X	NEMA L6-30R	7
19	1	NC-FBD	120	1			13.2	L1-1	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	

C-STORE SELF-SERVE FOOD SERVICE EQUIPMENT

ITEM NO.	QTY	DESCRIPTION	ELECTRICAL												
			VOLTS	PHASE	KW	HP	FLA	CIRCUIT DESIG	BREAKER AMPS	BREAKER POLE	FEEDER	DIRECT PLUG	PLUG TYPE		NOTES
20	1	HEATED MERCHANDISER	120	1			14.7	L1-25	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
21	1	HEATED MERCHANDISER	208	1			6.00	L1-2,4	20	2	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
22	1	RI REFRIGERATOR	120	1			2.50	L1-5	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
23	1	RI UC FREEZER	120	1			7.50	L1-21	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
24	1	CONVEYOR OVEN	208	1			37.0	MDP-26,28	50	2	2#8, 1#10G-3/4"C		X	NEMA 6-50R	
25	1	PIZZA PREP REFRIGERATOR	120	1			3.50	L1-3	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
29	1	EXH. HOOD, LTS,FSS,CTLS	120	1			4.17	L1-31	20	1	2#12, 1#12G-3/4"C	X			5
36	2	COFFEE BREWER	208	1			24.0	L4-1,3	30	2	2#10, 1#10G-3/4"C		X	NEMA 6-30R	
		COFFEE BREWER	208	1			24.0	L4-5,7	30	2	2#10, 1#10G-3/4"C		X	NEMA 6-30R	
37	2	CAPPUCCINO	120	1			15.0	L4-9	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
		CAPPUCCINO	120	1			15.0	L4-11	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
38	2	CREAMER DISPENSER	120	1			8.33	L4-2	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	
		CREAMER DISPENSER	120	1			8.33	L4-4	20	1	2#12, 1#12G-3/4"C		X	NEMA 5-20R	

GENERAL NOTES:

1. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, INCLUDING OTHER DISCIPLINES, AND THE SCOPE OF WORK TO BE COMPLETED. FULLY COORDINATE BETWEEN ALL DISCIPLINE PLANS AND THE WORK TO BE COMPLETED.
2. FOR LEGEND, SEE DRAWING E000.
3. GENERALLY, THE CIRCUITING SHOWN SHALL GO TO PANEL AND CIRCUIT INDICATED. HOWEVER,CIRCUITS MAY BE SHIFTED TO OTHER CIRCUIT NUMBERS IN THAT PANEL AS LONG AS CIRCUIT BALANCING, SHARED NEUTRAL AND PHASING SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.
4. CONTRACTOR SHALL VERIFY ALL FOOD SERVICE, COOLER/FREEZER, FUEL DISPENSING AND HVAC EQUIPMENT ELECTRICAL LOADS AND REQUIREMENTS PRIOR TO ROUGHING-IN. MAKE ALL NECESSARY ADJUSTMENTS TO CIRCUITS (WIRE, CONDUIT, DISCONNECT SWITCHES, RECEPTACLES AND CIRCUIT BREAKER SIZING, ETC.).
5. ALL 1P 120V & 2P, 208V AND 3P, 208V RECEPTACLES IN FOOD PREP AND SELF-SERVE AREAS SHALL BE GFI PER NEC 210.8(B).

KEYED NOTES:

1. PROVIDE 4#12, 1#12G CONDUCTORS IN 1"C TO PANEL AND CIRCUITS INDICATED.
2. PROVIDE PANEL L4 INSIDE CABINET. COORDINATE LOCATION SUPPLIER/INSTALLER. CONNECT ALL EQUIPMENT CIRCUITS ON ISLAND AND SHELVING TO THIS PANEL.
3. MAKE FINAL CONNECTION FROM MANUAL MOTOR STARTER/DISCONNECT SWITCH TO ACF-1.
4. PROVIDE COMBINATION 208V, 2-POLE MOTOR STARTER (NEMA SIZE 0) AND NON-FUSED, DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. MAKE FINAL CONNECTION FROM STARTER/DS TO RCP-1.
5. MOUNT RECEPTACLES AND PHONE/DATA OUTLETS INSIDE CABINETS. ROUTE CONDUIT BETWEEN RECEPTACLES AND PHONE/DATA OUTLETS INSIDE CABINETS AND EXTEND TO NEAREST WALL. ROUTE CONDUIT UP WALL TO 6" ABOVE CEILING(FOR PHONE/DATA) OR TO PANEL INDICATED(FOR POWER).
6. PROVIDE BUSINESS LINE TELEPHONE OUTLET.
7. PROVIDE CREDIT CARD TELEPHONE OUTLET.
8. PROVIDE J-BOX FOR WH-1 CONTROLS AND IGNITION. MAKE FINAL CONNECTION FROM J-BOX TO WH-1.
9. LOCATE FUEL SYSTEM "EMERGENCY STOP" PUSHBUTTON AND CONNECT TO FUEL SYSTEM. COORDINATE LOCATION W/OWNER AND LOCAL AUTHORITIES.
10. PROVIDE RECEPTACLE FOR SP-1. COORDINATE LOCATION WITH SUMP PUMP INSTALLER.
11. PROVIDE 4#6, 1#10G-1"C.
12. EXTEND CONDUIT CIRCUIT UNDER SLAB TO PANEL INDICATED.
13. SAME AS NOTE #12 FOR PANEL L4 FEEDER CONDUIT FOR SELF-SERVE ISLAND AND EXTEND UNDER SLAB TO WALL, UP WALL TO PANEL MDP AND CONNECT.
14. WIRING TROUGH W/ VEEDER-ROOT EQUIPMENT. SEE RISER DIAGRAM, E001.
15. PROVIDE RECEPTACLE, AS SHOWN IN EQUIPMENT SCHEDULE, AND MOUNT INSIDE CABINET. COORDINATE LOCATION WITH CABINET SUPPLIER/INSTALLER.
16. PROVIDE J-BOX (SIZED AS REQUIRED) FLUSH W/CONCRETE SLAB FOR CIRCUIT(S).
17. SAME AS NOTE #16 AND PROVIDE DUPLEX RECEPTACLE IN J-BOX W/COVERPLATE FLUSH W/ SLAB.
18. PROVIDE 2'-0" X 2'-0" X 3/4" PLYWOOD TELEPHONE BACKBOARD. PAINT W/FIRE RETARDANT PAINT AND PROVIDE 1#6G FROM BACKBOARD GROUND BAR TO SERVICE ENTRANCE GROUND. PROVIDE 2-4"C W/PULLWIRE FROM BACKBOARD TO TELEPHONE SERVICE POINT. COORDINATE LOCATION W/ PHONE CO., SEE E300.
19. SAME AS NOTE #1, EXCEPT PROVIDE 3#12, 1#12G.

FOOD SERVICE EQUIPMENT SCHEDULE NOTES:

NOTE 1. SEE DWG. E100.
NOTE 2. PROVIDE WP DISCONNECT SWITCH AND MOUNT TO CONDENSING UNIT ON ROOF. MAKE FINAL CONNECTION FROM DISC. SW. TO CONDENSING UNIT.
NOTE 3. PROVIDE WP DISCONNECT SWITCH AND MOUNT TO COIL. MAKE FINAL CONNECTION FROM DISC. SW. TO COIL.
NOTE 4. SEE DWG. E201.
NOTE 5. PROVIDE ALL CONDUIT AND WIRING REQUIRED TO CONNECT HOOD WITH ALL POWER AND CONTROL FROM HOOD CONTROL PANEL, AS SHOWN ON THE CAPTIVE AIRE DRAWINGS.
NOTE 6. COORDINATE WITH MANUFACTURER FOR EXACT REQUIREMENTS. PROVIDE ALL INTERCONNECTIONS, AS REQUIRED.
NOTE 7. PROVIDE CORD AND PLUG FOR EQUIPMENT TO MATCH RECEPTACLE.

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1 ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.29.22	1 ISSUED FOR CONSTRUCTION
05.24.22	PER COMMENTS

DRAWN BY: BAM
CHK'D BY: JFM

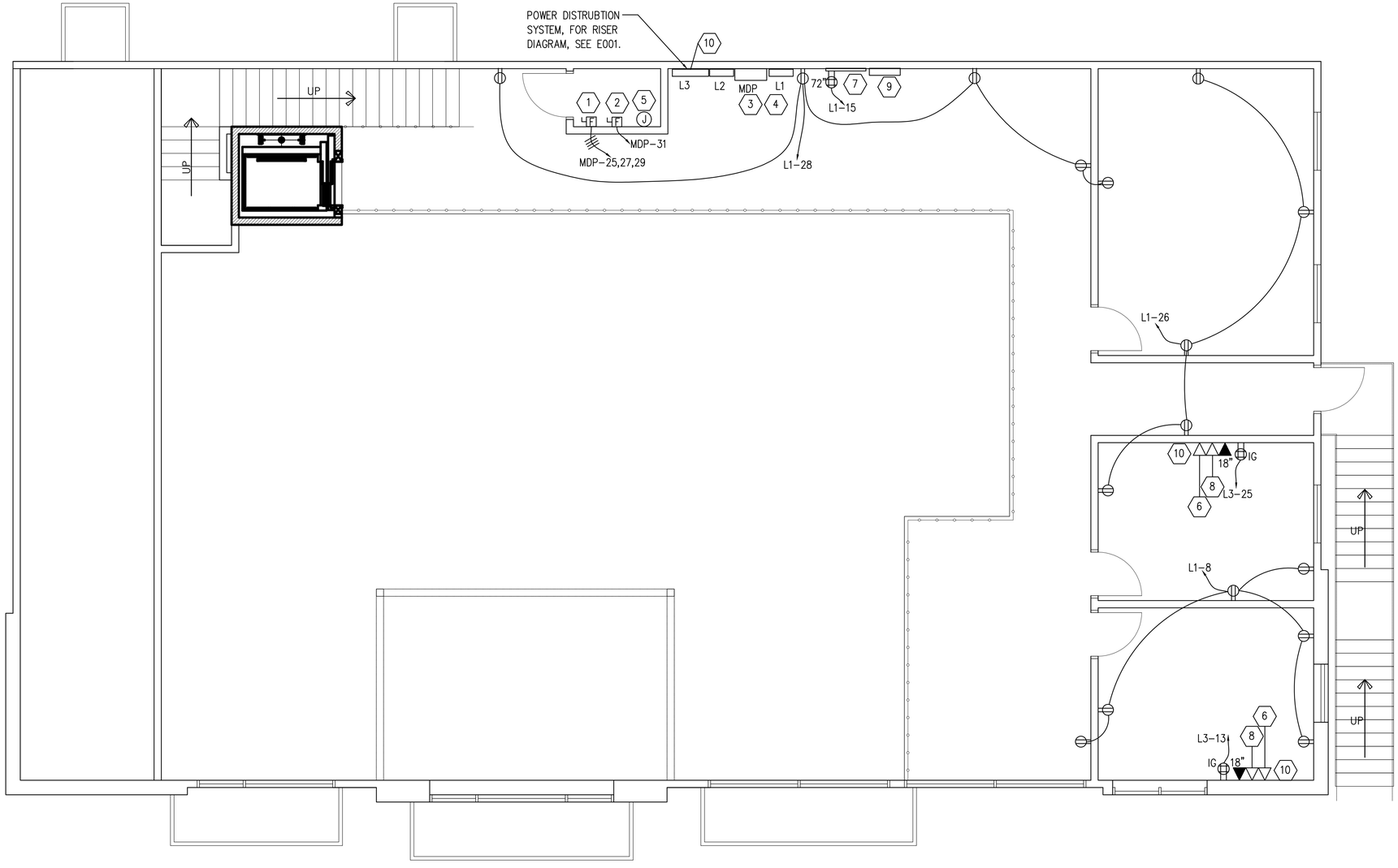
PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
POWER PLAN - 1st FLOOR

PROJECT NO: 21035

E200



1 E201 C-STORE POWER PLAN - 2nd FLOOR
1/4"=1'-0"

GENERAL NOTES:

1. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, INCLUDING OTHER DISCIPLINES, AND THE SCOPE OF WORK TO BE COMPLETED. FULLY COORDINATE BETWEEN ALL DISCIPLINE PLANS AND THE WORK TO BE COMPLETED.
2. FOR LEGEND, SEE DRAWING E000.
3. GENERALLY, THE CIRCUITING SHOWN SHALL GO TO PANEL AND CIRCUIT INDICATED. HOWEVER,CIRCUITS MAY BE SHIFTED TO OTHER CIRCUIT NUMBERS IN THAT PANEL AS LONG AS CIRCUIT BALANCING, SHARED NEUTRAL AND PHASING SHALL BE ADJUSTED AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.
4. CONTRACTOR SHALL VERIFY ALL FUEL DISPENSING AND HVAC EQUIPMENT ELECTRICAL LOADS AND REQUIREMENTS PRIOR TO ROUGHING-IN. MAKE ALL NECESSARY ADJUSTMENTS TO CIRCUITS (WIRE, CONDUIT, DISCONNECT SWITCHES, RECEPTACLES AND CIRCUIT BREAKER SIZING, ETC.).

KEYED NOTES:

1. PROVIDE 30/3P/1/20A, 208V DISCONNECT SWITCH IN NEMA 1 ENCLOSURE FOR ELEVATOR POWER. MAKE FINAL CONNECTION FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
2. PROVIDE 30/1P/1/15A, 120V DISCONNECT SWITCH IN NEMA 1 ENCLOSURE FOR ELEVATOR LIGHTS, CONTROLS, ETC. MAKE FINAL CONNECTION FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
3. PROVIDE ARC-FLASH WARNING SIGNAGE PER NEC 2014-110.16 AND APPROVED BY CODE OFFICIAL.
4. PROVIDE ARC-FAULT WARNING SIGNAGE PER NEC 2014-110.24(A) AND APPROVED BY CODE OFFICIAL.
5. PROVIDE CAB TELEPHONE J-BOX. PROVIDE 3/4"C W/PULLWIRE FROM J-BOX TO TELEPHONE BACKBOARD ON THIS FLOOR AND PROVIDE 3/4"C W/PULLWIRE FROM J-BOX TO ELEVATOR CONTROLLER.
6. PROVIDE BUSINESS LINE TELEPHONE OUTLET.
7. PROVIDE 2'-0" X 2'-0" X 3/4" PLYWOOD TELEPHONE BACKBOARD. PAINT W/FIRE RETARDANT PAINT AND PROVIDE 1#6G FROM BACKBOARD GROUND BAR TO SERVICE ENTRANCE GROUND. PROVIDE 2-2"C W/PULLWIRE FROM BACKBOARD DOWN INSIDE EXTERIOR WALL TO UNDERGROUND. EXTEND CONDUIT TO TELEPHONE SERVICE POINT. COORDINATE LOCATION W/ PHONE CO., SEE E300.
8. PROVIDE MODEM TELEPHONE OUTLET
9. WIRING TROUGH W/ VEEDER-ROOT EQUIPMENT. SEE RISER DIAGRAM, E001. ROUTE CONDUIT DOWN INSIDE EXTERIOR WALL TO UNDERGROUND AND STUB OUT 5'-0" FROM FOUNDATION AND CAP.
10. PROVIDE 2-2"C W/PULLWIRE FROM OFFICE TO SALES COUNTER AND PROVIDE 1-2"C W/PULLWIRE FROM OFFICE TO FOOD SERVICE COUNTER. COORDINATE CONDUIT TERMINATION POINTS IN OFFICE AND STUB UP LOCATIONS AT SALES COUNTER AND FOOD SERVICE COUNTER W/OWNER.

ARCHITECT OF RECORD:

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CHK'D BY: JFM

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

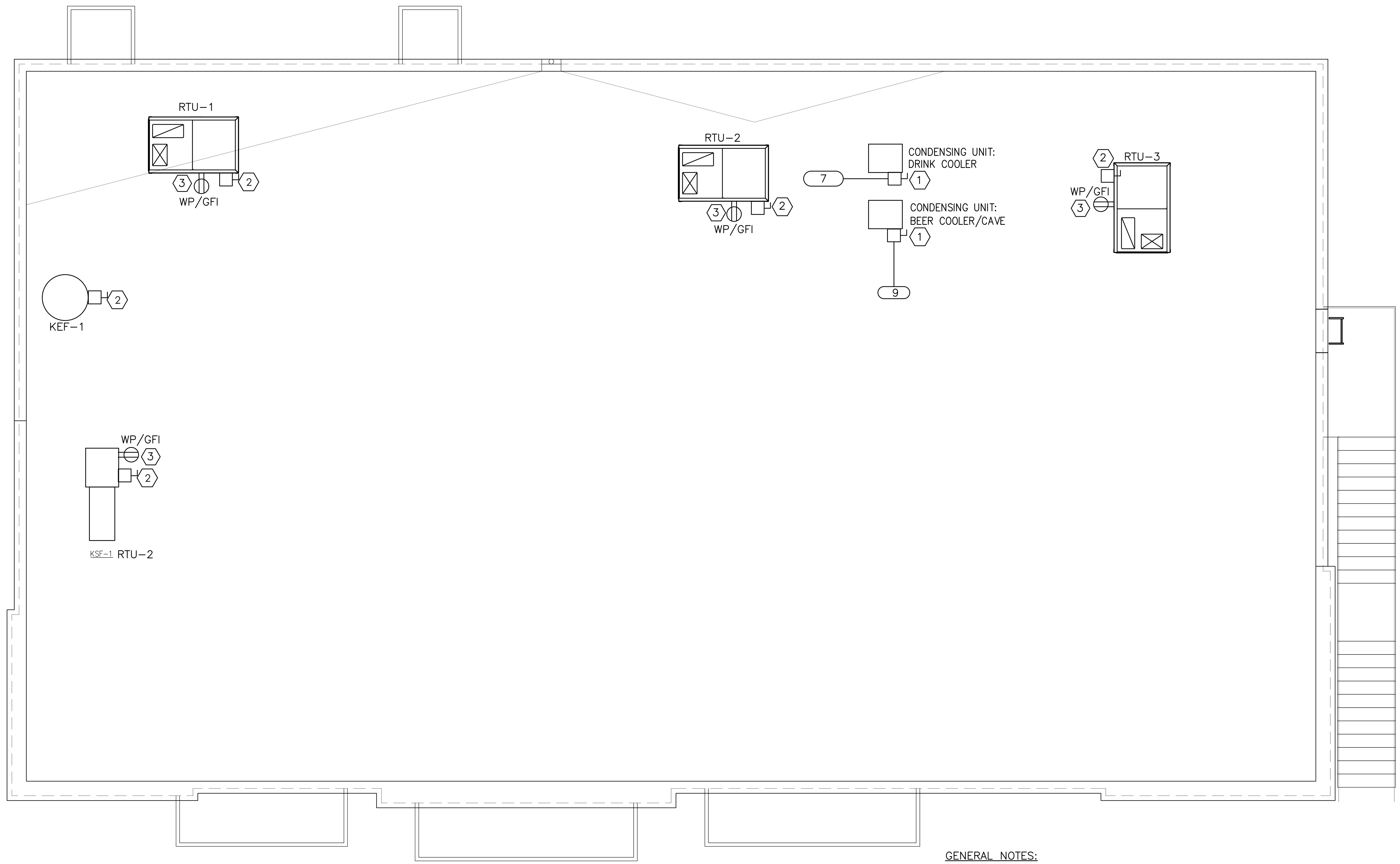
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

POWER PLAN - 2nd FLOOR

PROJECT NO: 21035

E201



MECHANICAL EQUIPMENT CONNECTION SCHEDULE					
EQUIPMENT	CIRCUIT DESIGNATION	FEEDER	DISCONNECT	FLA/KW	NOTES
RTU-1	MDP-14,16,18	4#8, #10(G), 1"C.	INCLUDED	24.6 FLA	1,2
RTU-2	MDP-20,22,24	4#8, #10(G), 1"C.	INCLUDED	24.6 FLA	1,2
RTU-3	MDP-26,28,30	4#8, #10(G), 1"C.	INCLUDED	24.6 FLA	1,2
KEF-1	MDP-37,39,41	3#12, #12(G), 3/4"C.	INCLUDED	82W	1,4
KSF-1	MDP-33,35	2#12, #12(G), 3/4"C.	INCLUDED	82W	1,4
TEF-1	L2-10	2#12, #12(G), 3/4"C.	MOT STARTER	5.8 FLA	1,3

NOTES:

1. PROVIDE OVERCURRENT PROTECTION AND BRANCH CIRCUITS PER UL LISTED REQUIREMENTS FOR EQUIPMENT SERVED. REFER TO MANUFACTURER DATA AND EQUIPMENT CUT-SHEETS FOR ROUGHIN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS FOR ALL EQUIPMENT. COORDINATE EXACT NAMEPLATE DATA OF EQUIPMENT BEING INSTALLED WITH MECHANICAL CONTRACTOR.
2. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR. EC SHALL PROVIDE AND INSTALL REMOTE ANNUNCIATORS VISIBLE IN THE CEILING BELOW FOR THE SMOKE DUCT DETECTORS IN THIS EQUIPMENT. CONNECT TO L1-7 IN C-STORE.
3. EXHAUST FAN SHALL HAVE CONTINUOUS OPERATION.
4. HOOD EXHAUST FAN (KEF-1) AND SUPPLY FAN (KSF-1) SHALL BE WIRED FROM PANEL MDP TO HOOD CONTROL PANEL AND FROM HOOD CONTROL PANEL TO FACTORY INSTALLED DISCONNECT SWITCH, AS SHOWN ON CAPTIVE AIRE DRAWINGS.

1 E201 ROOF POWER PLAN
1/4"=1'-0"

GENERAL NOTES:

1. THIS CONTRACTOR SHALL BECOME FAMILIAR WITH THE DRAWINGS, INCLUDING OTHER DISCIPLINES, AND THE SCOPE OF WORK TO BE COMPLETED. FULLY COORDINATE BETWEEN ALL DISCIPLINE PLANS AND THE WORK TO BE COMPLETED.
2. FOR LEGEND, SEE DRAWING E000.
3. GENERALLY, THE CIRCUITING SHOWN SHALL GO TO PANEL AND CIRCUIT INDICATED. HOWEVER, CIRCUITS MAY BE SHIFTED TO OTHER CIRCUIT NUMBERS IN THAT PANEL AS LONG AS CIRCUIT BALANCING, SHARED NEUTRAL AND PHASING ARE ADJUSTED AS NECESSARY TO MAINTAIN CIRCUIT INTEGRITY.
4. CONTRACTOR SHALL VERIFY ALL REMOTE CONDENSER AND HVAC EQUIPMENT ELECTRICAL LOADS AND REQUIREMENTS PRIOR TO ROUGHING -IN. MAKE ALL NECESSARY ADJUSTMENTS TO CIRCUITS (WIRE, CONDUIT, DISCONNECT SWITCHES AND CIRCUIT BREAKER SIZING, ETC.).
5. SEE FOOD SERVICE EQUIPMENT SCHEDULE, E200, FOR EQUIPMENT NUMBERS.

KEYED NOTES:

1. PROVIDE 60/3/NF/3R, 208V DISCONNECT SWITCH. MAKE FINAL CONNECTION FROM DISCONNECT SWITCH TO CONDENSER.
2. DISCONNECT SWITCH PROVIDED W/UNIT.
3. PROVIDE RECEPTACLE AND MOUNT TO UNIT. COORDINATE LOCATION W/INSTALLER. CONNECT TO CIRCUIT L1-23.

ARCHITECT OF RECORD:

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3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.29.22	ISSUED FOR CONSTRUCTION
05.24.22	PER COMMENTS

DRAWN BY: BAM
CHK'D BY: JFM

PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

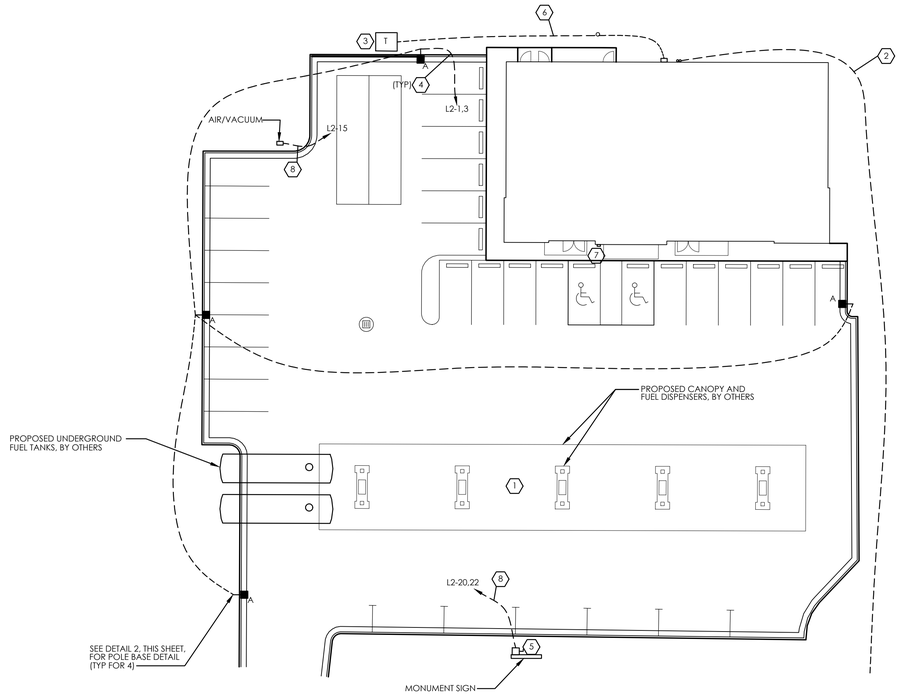
SHEET TITLE:
ROOF POWER PLAN

PROJECT NO: 21035

E202

NOTE:

PRIOR TO FINAL INSPECTION OF THE SITE LIGHTING, THE SITE LIGHTING DESIGN PROFESSIONAL OF RECORD SHALL SUBMIT TO THE CHIEF INSPECTOR A SIGNED REPORT WHICH STATES, "I HAVE OBSERVED THE SITE LIGHTING FOR THIS PROJECT IN OPERATION AT NIGHT IN THE ABSENCE OF DAYLIGHT TO VERIFY THAT THE LIGHTING IS CONSISTENT WITH THE APPROVED SITE LIGHTING PLANS."



1 E300 ELECTRICAL SITE PLAN
1"=20'-0"

GENERAL NOTES:

1. EC SHALL PROVIDE AND INSTALL CONCRETE POLE BASES AND EC SHALL FIELD COORDINATE THE EXACT POLE BASE SIZE WITH THE ACTUAL FIXTURES AND POLES PURCHASED UTILIZING THE APPROVED MANUFACTURER TEMPLATE.
2. THE MINIMUM SIZE CONDUIT FOR THE SITE LIGHTING SHALL BE 1" SCHEDULE 40 PVC CONDUIT WITH RGS TYPE ELBOWS AND STUB-UPS. ALL CONDUIT SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE. THE MINIMUM WIRE SIZE FOR THE SITE LIGHTING BRANCH CIRCUITS SHALL BE #10 (HOT, NEUTRAL, AND GROUND).
3. ALL EXTERIOR SITE, PARKING AND SIGNS SHALL BE CONTROLLED BY LIGHTING CONTACTOR, LC-1. EC SHALL VERIFY ALL LIGHTING AND SIGN LOADS PRIOR TO ROUGHING-IN. MAKE ALL NECESSARY ADJUSTMENTS TO CIRCUITS (WIRE, CONDUIT AND CIRCUIT BREAKER SIZING).
4. THE EC SHALL NOT DEVIATE FROM THE WIRING INDICATED. VOLTAGE DROP CALCULATIONS HAVE BEEN PERFORMED AND FACTORED IN FOR THIS LAYOUT, LOADS, AND WIRING SPECIFIED.
5. REFER TO THIS DRAWING FOR SITE LIGHTING FIXTURE SCHEDULE.
6. THE EC SHALL COORDINATE NEW ELECTRICAL INSTALLATION WITH ALL NEW AND EXISTING UTILITIES (ELECTRIC POWER, TELEPHONE, WATER, SEWER. STORM WATER, GAS, ETC.) EC SHALL CONFIRM LOCATION OF ALL EXISTING UTILITIES BEFORE DIGGING/TRENCHING.

ELECTRICAL SITE NOTES:

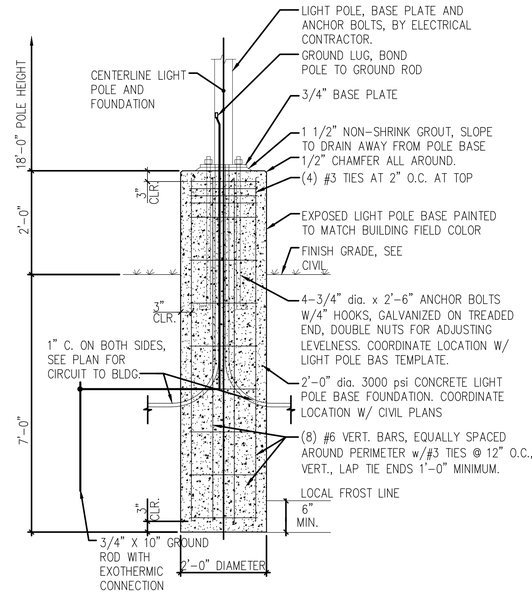
1. CANOPY LIGHTING BY OTHERS.
2. PROVIDE 2-2"C W/PULLWIRE FROM TELEPHONE SERVICE BACKBOARD, ON 2ND FLOOR (SEE E201), TO TELEPHONE SERVICE POINT. COORDINATE LOCATION OF TELEPHONE SERVICE POINT W/LOCAL TELEPHONE COMPANY.
3. PROPOSED PAD MOUNTED TRANSFORMER LOCATION. COORDINATE LOCATION AND TRANSFORMER REQUIREMENTS WITH LOCAL POWER COMPANY.
4. PROVIDE (2) #10 & (1) #10 GND IN 1" PVC C. ROUTE CIRCUIT THRU LC-1.
5. PROVIDE 30/2/3R/NF DISCONNECT FOR SIGNAGE. COORDINATE LOCATION OF SIGN WITH SIGN INSTALLER AND OWNER. PROVIDE FINAL CONNECTION FROM DISCONNECT SWITCH TO SIGN.
6. ELECTRICAL SERVICE FEEDER TO MAIN DISCONNECT SWITCH, TO MDP ON 2ND FLOOR (SEE E201). SEE RISER DIAGRAM, E001.
7. PROVIDE "EMERGENCY POWER-OFF" SWITCH AND SIGNAGE PER NEC ARTICLE 514.11. COORDINATE LOCATION W/AHJ AND OWNER.
8. PROVIDE (2) #8 & (1) #10 GND IN 1" PVC.

EXTERIOR LIGHTING FIXTURE SCHEDULE

LEGEND	TYPE	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP	MOUNTING	COMMENTS
-■	A	LSI	SLM-LED-18L-SIL-FT-UNV-DIM-50-70CRI-S-BRZ	208	LED	POLE-18'	135W
	POLE	LSI	4SQ-B3-S11G16-S-BRZ W/ABKIT-4SQ-STL-PL-3/4X30-11BC & KIT-BCVR-4BC-BRZ				

NOTE:

EXTERIOR LIGHTING FIXTURES SHALL BE CUTOFF LUMINARIES WITH THE LIGHTING SOURCE COMPLETELY CONCEALED IN AN OPAQUE HOUSING, AND FIXTURES SHALL BE RECESSED IN THE OPAQUE HOUSING, AND THAT THE FIXTURE LIGHTING SHALL BE DIRECTED IN TOWARD THE PROPERTY, SO AS NOT TO REFLECT INTO ADJACENT PROPERTIES, OR THOROUGHFARES.



2 E300 POLE BASE DETAIL
SCALE: NOT TO SCALE

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED NO.10443 PROFESSIONAL ENGINEER 04/29/2022 THOMAS E. MORGAN, JR.

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PLUMBING SYMBOLS AND ABBREVIATIONS:

SANITARY PIPING BELOW GRADE	
SANITARY PIPING ABOVE GRADE	
VENT PIPING	
DEIONIZED WATER	DI
REVERSE OSMOSIS WATER	RO
STORM PIPING BELOW GRADE	
STORM PIPING ABOVE GRADE	
COLD WATER	CW
HARD COLD WATER	HCW
SOFT COLD WATER	SCW
HOT WATER	HW
RECIRCULATING HOT WATER	RHW
TEMPERED WATER	T
PEX COLD WATER	PCW
PEX HOT WATER	PHW
PEX RECIRCULATING HOT WATER	PRHW
DRINKING FOUNTAIN CHILLED WATER SUPPLY	DCWS
DRINKING FOUNTAIN CHILLED WATER RETURN	DCWR
GAS	G
VACUUM	VAC
COMPRESSED AIR	CA
CLEAN OUT	CO OR CO
WALL CLEAN OUT	WCO OR WCO
FLOOR DRAIN	FD
ROOF DRAIN	RD
AREA DRAIN	AD
SHOWER DRAIN	SD
PIPE UP	OR
PIPE DOWN	OR
WALL HYDRANT	WH
HOSE BIBB	HB
CAPPED PIPE	
FLOW DIRECTION	
METER	M
CENTRAL VACUUM OUTLET	VO

PLUMBING DRAWING INDEX

MATERIAL SPECIFICATIONS:

1. ALL DOMESTIC WATER PIPING SHALL BE TYPE "L" HARD COPPER TUBING WITH WROUGHT COPPER FITTINGS. ALL HW AND CW PIPING SHALL BE INSULATED.
2. BELOW GRADE SANITARY SHALL BE HUB–AND–SPIGOT CAST IRON PIPING, NEOPRENE RUBBER GASKETS AND COMPRESSION JOINTS. ABOVE GRADE SANITARY AND VENT PIPING SHALL BE HUBLESS CAST IRON PIPE, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP–AND–SHIED ASSEMBLIES JOINTS.
3. INSULATION SHALL BE FLEXIBLE UNICELLULAR–SELF–SEAL ARMAFLEX 2000 1/2" THICK FOR HOT WATER PIPING UP TO 2" SIZE – PROVIDE SHEET METAL SADDLES AT EACH HANGER.

THERMAL INSULATION:

1. INSULATE ALL DOMESTIC COLD AND HOT WATER PIPING WITH PREFORMED FIBERGLASS INSULATION WITH ALL SERVICE JACKET. INSULATE ALL PIPE AND FITTINGS. SEAL ALL LONGITUDINAL AND BUTT JOINTS WITH MINIMUM 1" OVERLAP OF JACKET OR TAPE GLUED IN PLACE. JACKET MUST BE CONTINUOUS OVER ALL ENDS TO MAKE A UNIFORM VAPOR BARRIER.
2. INSULATION AND PIPE COVERING SHALL HAVE A PERMANENT COMPOSITE FIRE AND SMOKE HAZARD RATING NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50.
3. INSULATE ALL HORIZONTAL RAIN LEADERS AND ROOF DRAIN BODIES WITH 1–1/2" THICK, 1 LB./CF DENSITY BLANKET TYPE FIBERGLASS WITH VAPOR BARRIER JACKET. WIRE INSULATION IN PLACE AND SEAL ALL LAPS AND JOINTS.
4. INSULATED PIPING LOCATED IN MECHANICAL ROOMS AND IN OTHER AREAS SUBJECT TO DAMAGE SHALL BE PROVIDED WITH A 10 MIL PVC JACKET.
5. FIRE PROOF ALL WALL PENETRATIONS IN FIRE RATED WALLS.

HANGERS AND SUPPORTS:

CLEVIS TYPE HANGERS EQUAL TO GRINNELL FIGURE 260 WITH THREADED ROD AND ADJUSTABLE INSERTS EQUAL TO GRINNELL FIGURE 282. (GALVANIZED)

IDENTIFICATION

PROVIDE SNAP ON PIPE MARKERS WITH WHITE LETTERING FOR THE FOLLOWING SERVICES:

SERVICE	ABBREVIATION	BAND COLOR
POTABLE COLD WATER	CW	BLUE
POTABLE HOT WATER	HW	YELLOW
SANITARY DRAIN	SAN	GREEN

LOCATE ON EACH SIDE WHERE PASSING THROUGH WALLS AND FLOORS AND EVERY TWENTY FEET ALONG HORIZONTAL RUN.

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING AND FIRE PROTECTION SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO. ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, LOCAL AUTHORITIES AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS.
3. REVIEW PLANS OF ALL TRADES PRIOR TO BIDDING AND INSTALLATION TO INCLUDE ALL PLUMBING FOR COMPLETE SYSTEMS SHOWN ON THE PLANS AND AS REQUIRED.
4. COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, STRUCTURE, ELECTRICAL LIGHTING, AND OTHER PIPING IN THE CEILING SPACE. VENT PIPING AND WATER PIPING SHALL BE HELD EITHER ABOVE OR BELOW HVAC DUCTWORK AS COORDINATED WITH THE HVAC CONTRACTOR.
5. PROVIDE 12"x12" ACCESS PANELS FOR SHOCK ABSORBERS, TRAP PRIMERS AND ALL VALVES LOCATED ABOVE NON ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION. ALL ACCESS PANELS SHALL BE LOCATED SO THAT THEY ARE NOT VISIBLE TO PUBLIC VIEW. ALL VALVES AND ACCESSORIES SHALL BE LOCATED WITHIN 12" OF ACCESS THROUGH EITHER WALLS OR CEILING.
6. ALL DRAINAGE PIPING AND POTABLE WATER PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS. HOLD ALL PIPING ABOVE CEILING AS HIGH AS POSSIBLE.
7. ALL DRAINAGE PIPING, POTABLE, AND SANITARY WATER PIPING SHALL SLOPE AT 1/8 INCH PER FOOT UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL DOMESTIC WATER, SANITARY SEWERS, STORM DRAINS AND NATURAL GAS SERVICE AT APPROXIMATELY 5'–0" FROM BUILDING STRUCTURE UNLESS OTHERWISE NOTED.
9. COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, COLUMN FOUNDATIONS AND OTHER STRUCTURAL CONDITIONS.
10. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL PLUMBING FIXTURES MUST BE VERIFIED IN FIELD PRIOR TO INSTALLATION, FINAL LOCATION SHALL BE AS DIRECTED BY ARCHITECT.
11. FLOORS WHERE INDICATED ON ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS SHALL SLOPE TO FLOOR DRAINS. MAXIMUM SLOPE IN ANY DIRECTION SHALL NOT EXCEED 1/8 INCH PER FOOT. EXACT LOCATION OF ALL FLOOR DRAINS AND HUB DRAINS FOR EQUIPMENT MUST BE VERIFIED IN FIELD PRIOR TO INSTALLATION. FINAL LOCATION SHALL BE AS DIRECTED BY ARCHITECT.
12. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT INDICATED ON DRAWINGS, FINAL CONNECTION SHALL INCLUDE ANY ADAPTERS, NIPPLES, SHUTOFF VALVES, PRESSURE REGULATING VALVES, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, AND ALL OTHER ACCESSORIES.
13. ALL CHANGES SHALL BE APPROVED BY THE ARCHITECT AND/OR OWNER.
14. COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING–IN PLUMBING FIXTURES AND EQUIPMENT SUPPLIES.
15. THE PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES, AS IDENTIFIED ON PLUMBING FIXTURE SCHEDULE.
16. VERIFY MOUNTING HEIGHT AND WATER CONNECTION SIZES TO ALL PLUMBING FIXTURES PRIOR TO ROUGH–IN. FURNISH CUT–OUT TEMPLATES, FOR PLUMBING FIXTURES TO BE INSTALLED IN MILLWORK, BY THE GENERAL CONTRACTOR.
17. INSTALL WATER HAMMER ARRESTERS WHERE WATER PRESSURES ARE EXCESSIVE OR WHERE REQUIRED TO ELIMINATE WATER HAMMER OR WHEN DEEMED NECESSARY BY LOCAL AUTHORITIES. LOCATE AND SIZE AS RECOMMENDED BY THE AMERICAN SOCIETY OF PLUMBING ENGINEERS.
18. PIPING ABOVE SUSPENDED CEILINGS SHALL BE HELD AS HIGH AS POSSIBLE IN THE AVAILABLE SPACE AND IN ALL CASES SHALL BE ABOVE THE TOP OF THE LIGHT FIXTURES. THIS PIPING NORMALLY RUNS BELOW THE DUCTWORK.
19. ALL PIPING SHALL RUN CONCEALED ABOVE CEILING OR IN WALL CHASES UNLESS OTHERWISE INDICATED. EXPOSED PIPING SHALL BE 3/4" MINIMUM FROM ANY WALL SURFACE.
20. PROVIDE STOP VALVES AT ALL FIXTURES AND EQUIPMENT SUPPLIES. ALL EXPOSED FIXTURE CONNECTIONS SHALL BE CHROME PLATED. PROVIDE VACUUM BREAKERS WHERE REQUIRED BY CODE.
21. IT IS IN THE INTENT OF THESE DRAWINGS TO COVER ALL WORK AND MATERIAL FOR A FIRST CLASS INSTALLATION. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.
22. ALL STRUCTURAL PENETRATIONS (SLEEVES, BLOCKOUTS, AND ANCHORS) ARE TO BE LOCATED AND COORDINATED IN THE FIELD BY THE CONTRACTOR IN RELATION TO THE REQUIREMENTS OF FINAL EQUIPMENT AND FIXTURES SELECTED.
23. PROVIDE AN EXPANSION JOINT OR FABRICATED EXPANSION LOOP ON ALL PIPING SYSTEMS THAT CROSS BUILDING EXPANSION JOINTS.
24. THE WATER SUPPLY CONNECTION TO EACH COFFEE MACHINE AND EACH NONCARBONATED BEVERAGE DISPENSER SHALL BE PROTECTED AGAINST BACKFLOW BY A BACKFLOW PREVENTER CONFORMING TO ASSE 1022 OR ASSE 1024, OR PROTECTED BY AN AIR GAP.

PLUMBING PIPING SCHEDULE

SERVICE	MATERIAL	JOINTS	FITTINGS
SANITARY SEWER PIPES AND VENTS	CAST IRON	LEAD AND OAKUM	NO HUB
DOMESTIC HOT & COLD WATER INTERIOR	TYPE "L" HARD DRAWN COPPER	SOLDER 95/5	WROUGHT COPPER
DOMESTIC COLD WATER EXTERIOR	TYPE "K" HARD DRAWN COPPER	SOLDER 95/5	WROUGHT COPPER
CONDENSATE DRAIN	SCHEDULE 40 PVC	PVC SOLVENT	PVC SOLVENT
DOMESTIC WATER BENEATH FLOOR	TYPE "M" SOFT DRAWN COPPER	SOLDER 95/5	WROUGHT COPPER

1. FOR SANITARY SEWER PIPES AND VENTS: PVC MAY BE USED IF APPROVED BY LOCAL AUTHORITIES.
2. FOR DOMESTIC WATER PIPING: PVC MAY BE USED IF APPROVED BY LOCAL AUTHORITIES.
3. PVC MAY NOT BE USED IN RETURN AIR PLENUMS.
4. PEX PIPING IS NOT ACCEPTABLE.

PLUMBING FIXTURE SCHEDULE

FIXTURE NO.	FIXTURE DESCRIPTION	MANUFACTURER AND CAT. NO.	FLUSH VALVE	TOILET SEAT	FAUCET MODEL AND CAT. NO.	PIPING CONNECTIONS-INCHES SD	VENT	C.W.	H.W.	NOTES AND REMARKS
P1A	WATERCLOSET – ADA	KOHLER # K–4405	KOHLER # K–10673	KOHLER # K–4731–SC	----	4"	2"	1"	--	WATER – WALL MOUNTED, COMMERCIAL, FLOOR OUTLET, ELONGATED FRONT, WHITE VITREOUS CHINA, SIPHON JET FLUSH WITH WHITE OPEN FRONT TOILET SEAT– 1" TOP SPUD, ELECTRONIC INFRARED SENSOR, 9 VOLT LITHIUM BATTERY – 1.28 GALLONS PER FLUSH – MOUNTED FOR ADA 18" (10" ROUGH–IN)
P1B	WATERCLOSET	KOHLER # K–4405	KOHLER # K–10673	KOHLER # K–4731–SC	----	4"	2"	1"	--	WATER – WALL MOUNTED, COMMERCIAL, FLOOR OUTLET, ELONGATED FRONT, WHITE VITREOUS CHINA, SIPHON JET FLUSH WITH WHITE OPEN FRONT TOILET SEAT– 1" TOP SPUD, ELECTRONIC INFRARED SENSOR, 9 VOLT LITHIUM BATTERY – 1.28 GALLONS PER FLUSH.
P2	URINAL – ADA	KOHLER # K–4989–T	KOHLER # K–10949	----	----	2"	2"	3/4"	--	WALL HUNG, VITREOUS CHINA, SIPHON JET, 3/4" TOP SPUD, 0.125 GPF, ELECTRONIC INFRARED SENSOR, 9 VOLT LITHIUM BATTERY, SLOW CLOSING PISTON,
P3	LAVATORY WALL HUNG – ADA	KOHLER # K–2005	----	----	DELTA # 8611153	1 1/4"	1 1/4"	1/2"	1/2"	21"X18" ADA WALL HUNG VITREOUS CHINA LAVATORY W/ BACKSPLASH, TWO HANDLE MIXING METERING OPERATION, 0.5 GPM PRESSURE COMPENSATING, VANDAL RESISTANT NON AERATED SPRAY 1 1/4" P TRAP AND DRAIN ASSEMBLY. INSTALL INSULATION ON TRAP AND SUPPLIES OF ADA FIXTURES.
P4	MOP SINK	KOHLER # K–6710	----	----	KOHLER # K–6710	3"	2"	3/4"	3/4"	SERVICE SINK, WHITE CAST IRON, SINGLE COMPARTMENT CORNER UNIT, 28"X28"X12" DEEP FLOOR MOUNTED WITH WALL MOUNTED FAUCET FOR MOP SINK WITH BUCKET HOOK AND HOSE CONNECTION.
P5	HAND SINK	ADVANCE TABCO # 7–PS–23–EC–SP–1X	----	----	----	1 1/2"	1 1/2"	1/2"	1/2"	SEAMLESS TYPE 304 16 GAUGE STAINLESS STEEL, SINGLE COMPARTMENT, SIDE SPLASH GUARDS, SINK COMPARTMENT DIMENSIONS 9–3/4"X13–1/2"X6–3/4"
P6	ONE COMPARTMENT SINK	EAGLE # 314–16–1–18L–X	----	----	T&S BRASS B–0231	1 1/2"	1 1/2"	1/2"	1/2"	SEAMLESS TYPE 304 16 GAUGE STAINLESS STEEL, SINGLE COMPARTMENT, ONE DRAIN BOARD, SINK COMPARTMENT DIMENSIONS 24"X18"X13–1/2"
P7	TRIPLE COMPARTMENT SINK	ADVANCE TABCO # FE–3–1812–24RL–X	----	----	KOHLER # K–15172–F–CP	1 1/2"	1 1/2"	1/2"	1/2"	SEAMLESS TYPE 304 18 GAUGE STAINLESS STEEL THREE COMPARTMENT COUNTERTOP SINK 33"X22"X8" DEEP WITH FOUR HOLE PUNCH 4" ON CENTER AND CENTER DRAIN. SINGLE LEVER DECK MOUNTED FAUCET WITH SPRAY HOSE.
P8	EXTERIOR WALL HYDRANT	ZURN # Z–1335	----	----	----	--	--	3/4"	--	NON–FREEZE CONCEALED VANDAL RESISTANT HOSE BIB WITH STAINLESS STEEL BOX AND LOCKING DOOR AND INTEGRAL VACUUM BREAKER. (18" AFF)
FD	FLOOR DRAIN	ZURN # Z–415	----	----	----	3"	--	--	--	FLOOR DRAIN CAST IRON BODY BOTTOM OUTLET MEDIUM DUTY 6"MINIMUM DIAMETER POLISHED NICKEL BRONZE TYPE "B" STRAINER.
FS	FLOOR SINK	ZURN # FD2370	----	----	----	3"	--	--	--	PVC BODY, BOTTOM OUTLET, DOME STRAINER, 14" X 14" 1/2" OPEN GRATE.
HD	HUB DRAIN	ZURN # Z–211–S–P	----	----	----	3"	--	--	--	CAST IRON BODY, BOTTOM OUTLET, MEDIUM DUTY 6" MINIMUM DIAMETER POLISHED NICKEL BRONZE TYPE "B" STRAINER.

NOTES: 1. COORDINATE WITH ARCHITECTURAL PLANS.
2. FIXTURES SHALL BE AS SCHEDULED OR APPROVED EQUAL.

GAS WATER HEATER SCHEDULE

EQUIP. NO.	LOCATION	MIN. STOR. CAP. (GAL.)	MIN. REC. (GPH)	DISC. TEMP. F	TEMP. RISE F	GAS INPUT (MBH)	REMARKS
WH–1	JANITOR'S ROOM	100	470	140	90	199	1
1. BASIS OF DESIGN: A.O. SMITH BTH–199 Mxi							

ELEVATOR SUMP PUMP SCHEDULE

MARK	LOCATION	GPM	MIN. HEAD (FT)	MOTOR (HP)	BASIS OF DESIGN	REMARKS
SP–1	ELEVATOR PIT	50	20	3/10	ZOELLER – 940–0005	

HOT WATER RECIRCULATION PUMP SCHEDULE

MARK	GPM	HEAD (FT.H20)	HP	RPM	TYPE	INDOOR BASIS OF DESIGN	NOTES
RCP–1	20	50	1–1/2	1750	INLINE	BELL & GOSSETT – #E617T	

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

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ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED PROFESSIONAL ENGINEER BOBBY G. BEACH

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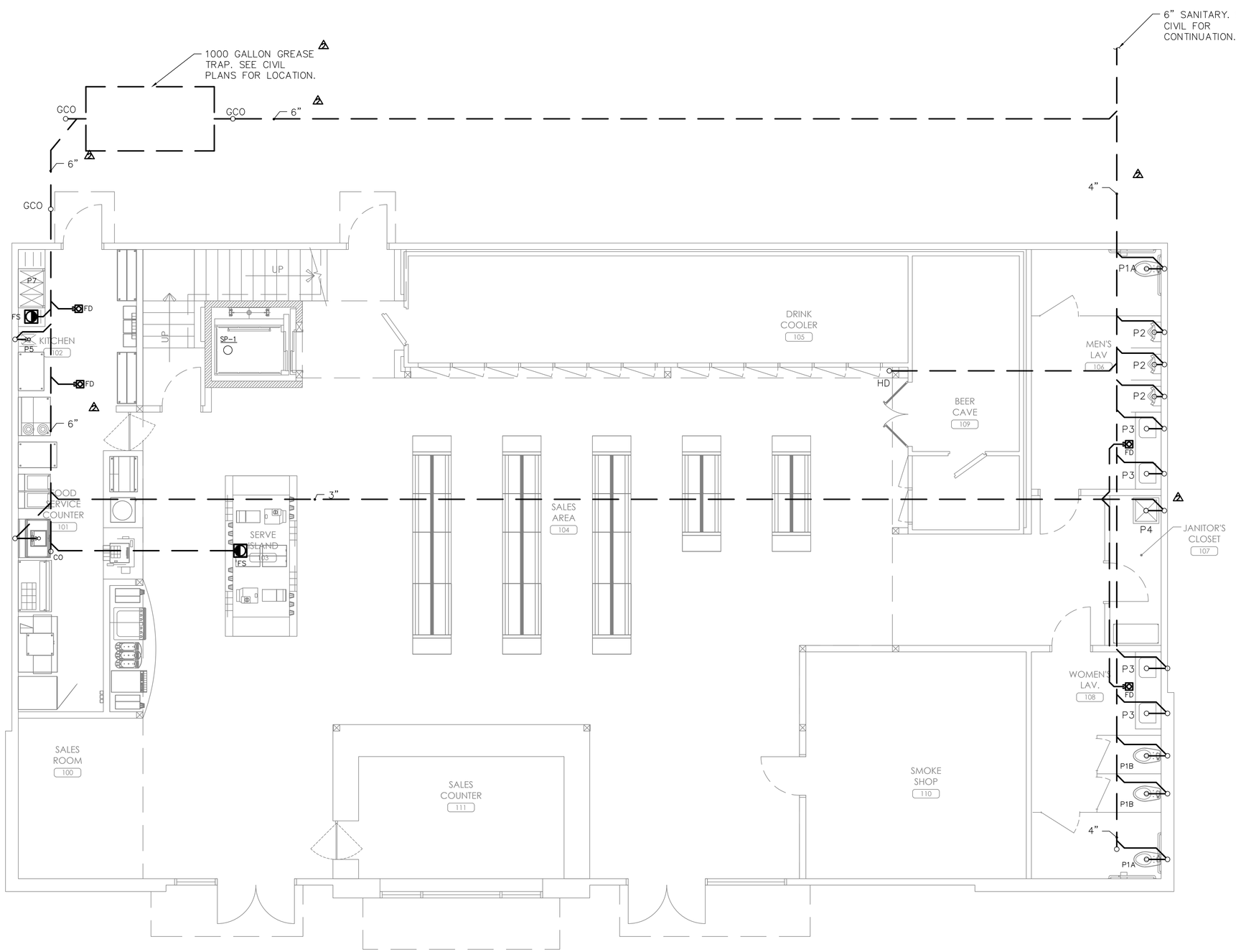

1 P1.1A FIRST FLOOR PLAN - PLUMBING - WASTE
1/4" = 1'-0"

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

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03/02/2023

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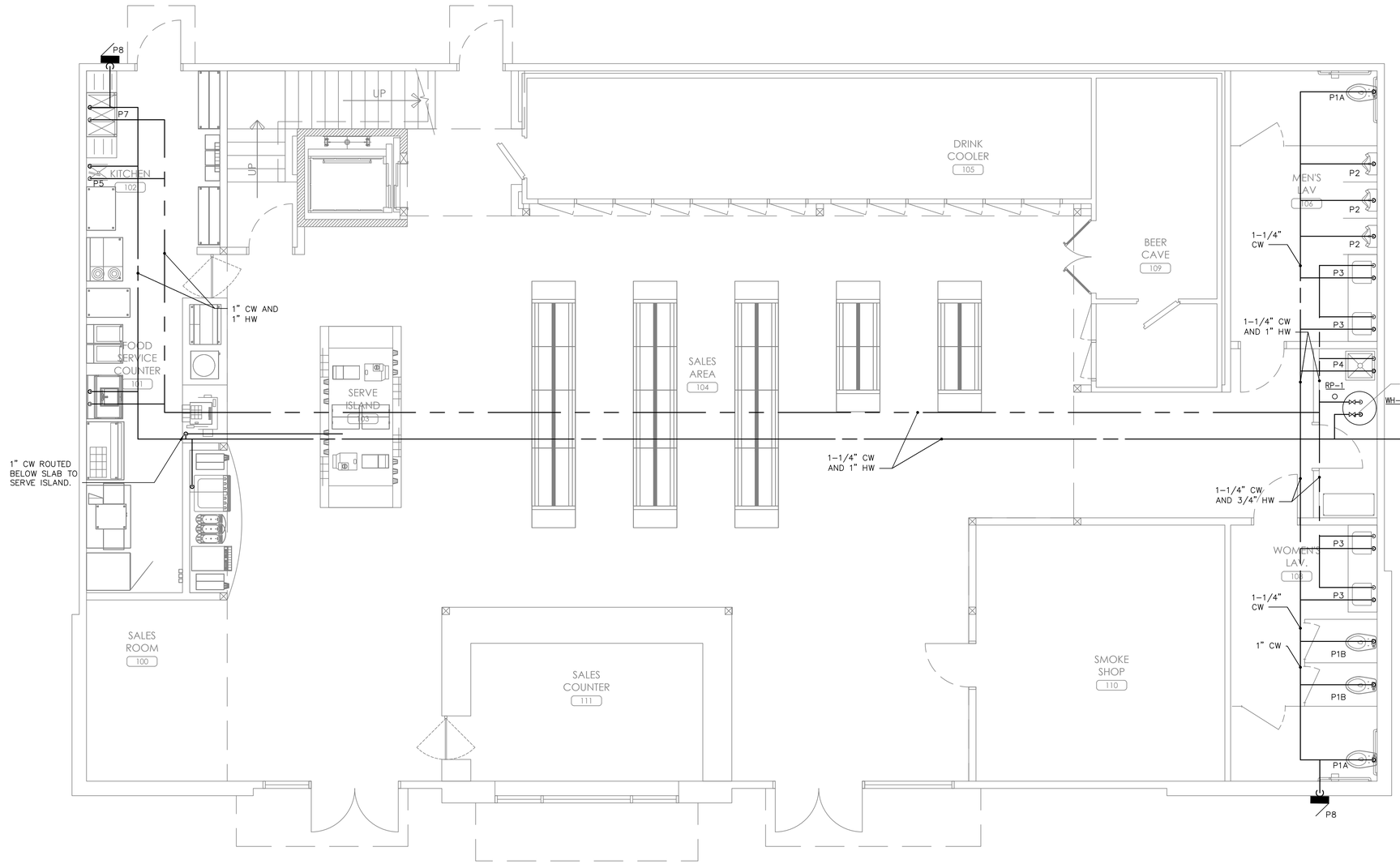
SHEET TITLE:
FIRST FLOOR PLAN - PLUMBING - WASTE

PROJECT NO: 21035

Beach Engineering Solutions Team, Inc
besteng ineeringsolutions.com
(678) 665-3280
project number: 22-XXX

P1.1A



1 P1.1B FIRST FLOOR PLAN - PLUMBING - WATER
1/4" = 1'-0"

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

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ELLIJAY, GEORGIA 30540

SEAL:

GEORGIA REGISTERED PROFESSIONAL ENGINEER BOBBY G. BEACH

03/02/2023

MRP DESIGN GROUP
3450 Acworth Due West Road
Building 100, Suite 120
Kennesaw, Georgia 30144
P. 770-917-9172
F. 770-917-9470
www.mrpdesign.com

ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
06.29.22	REV. 1 PER COMMENTS
09.15.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS

DRAWN BY: DMB
CHK'D BY: BGB

PROJECT DESCRIPTION:
PROPOSED TWO STORY CONVENIENCE STORE

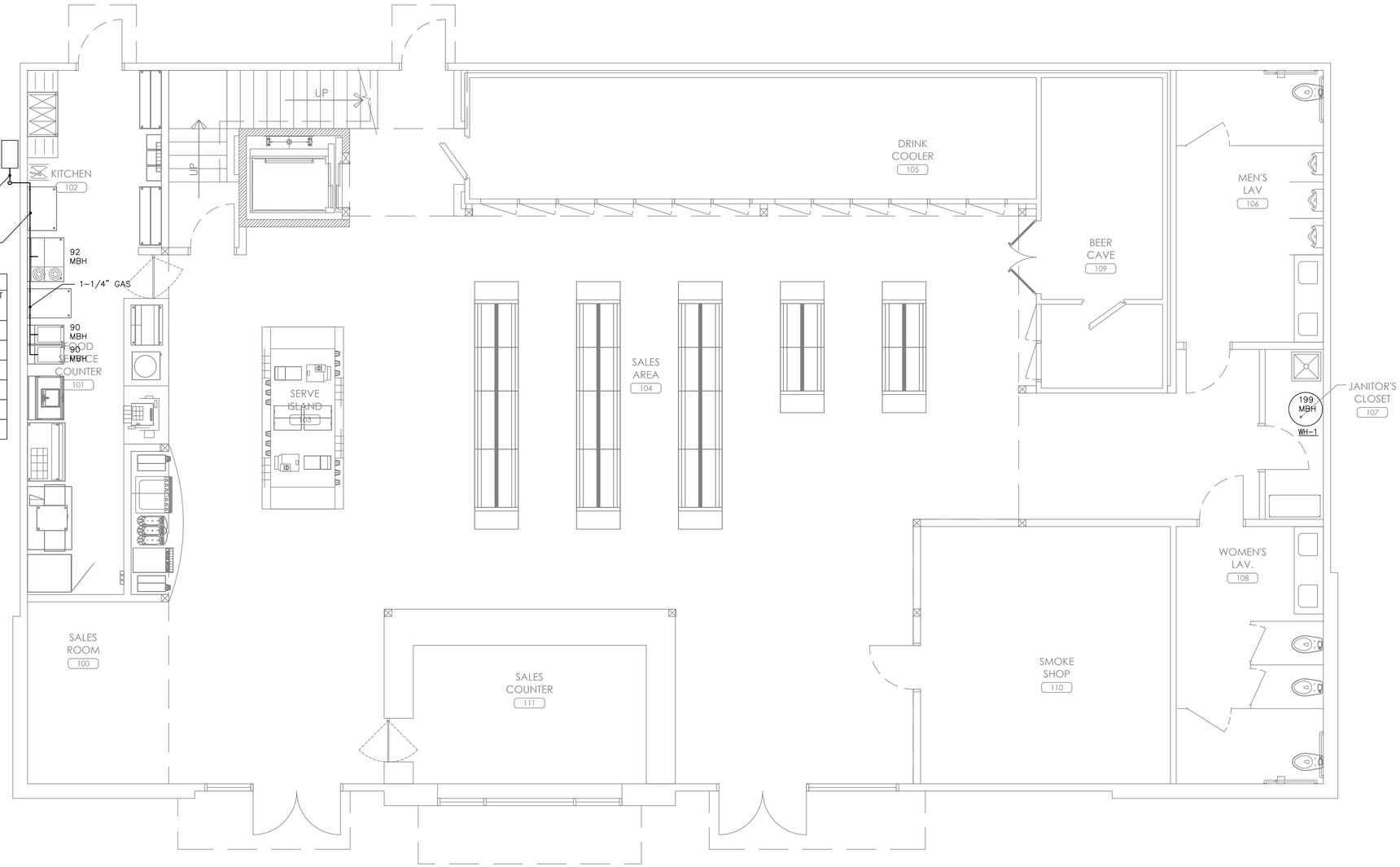
PROJECT TITLE:
C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:
FIRST FLOOR PLAN - PLUMBING - WATER

PROJECT NO: 21035

Beach Engineering Solutions Team, Inc
bestengineeringsolutions.com
(678) 665-3280
project number: 22-XXX

P1.1B



GAS EQUIPMENT SCHEDULE			
EQUIPMENT MARK	QUANTITY	GAS INPUT (MBH)	GAS INLET SIZE (INCHES)
RTU–1	1	115	3/4
RTU–2	1	115	3/4
RTU–3	1	115	3/4
WH–1	1	199	3/4
FRYER	2	90	3/4
36" RANGE	1	92	3/4

SHEET NOTES:

1. PROVIDE GAS CONNECTION KIT PER MANUFACTURER'S RECOMMENDATIONS AND CODE REGULATIONS.
2. PROVIDE PRESSURE REGULATORS AT EACH PIECE OF EQUIPMENT AS RECOMMENDED BY THE GAS COMPANY AND EQUIPMENT MANUFACTURER.
3. PROVIDE UNION AND DRIP LEG AT EACH PIECE OF EQUIPMENT AND GAS METER.
4. PROVIDE SHUT–OFF COCK AT GAS MAIN AND AT EACH PIECE OF EQUIPMENT.
5. TYPE OF GAS: NATURAL GAS. SINGLE STAGE SYSTEM.
6. LONGEST LENGTH METHOD IS USED FOR GAS PIPE SIZING.
7. TABLE 402.4(2) IS USED TO DETERMINE THE SIZE OF EACH SECTION.
8. MATERIAL OF GAS PIPING: SCHEDULE 40 BLACK STEEL.
9. SHUTOFF VALVES SHALL BE LOCATED IN A PLACE SO AS TO PROVIDE ACCESS FOR OPERATION AND SHALL BE INSTALLED SO AS TO BE PROTECTED FROM DAMAGE PER 2018 IFGC, SECTION 409.1.3. ⚠

1 / P1.1C FIRST FLOOR PLAN - PLUMBING - GAS
1/4" = 1'-0"

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.
ARCHITECT

423 FISCHER TRAIL
ELLIJAY, GEORGIA 30540

SEAL:

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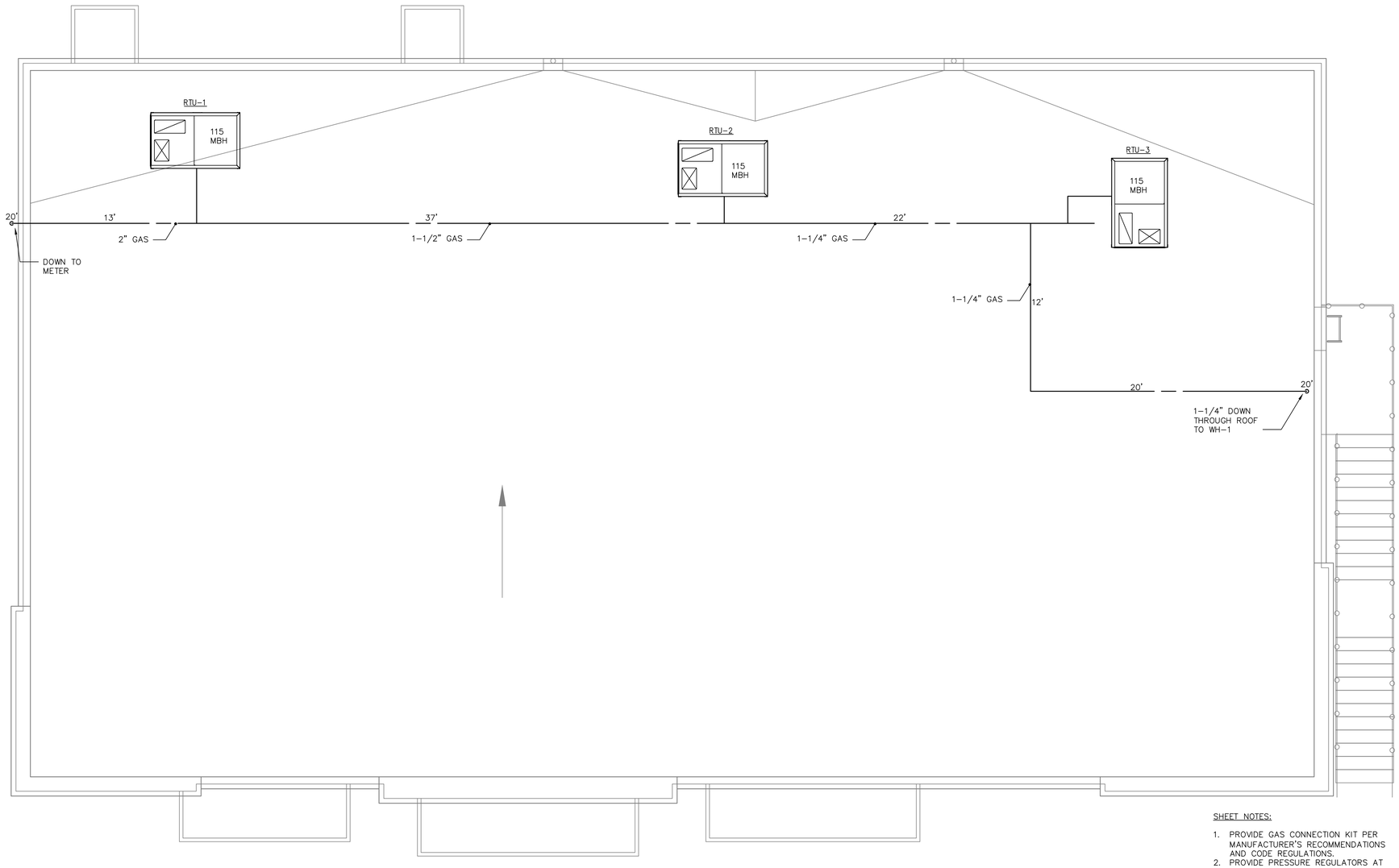
P1.1C



1 P1.2 ROOF PLAN - PLUMBING
1/4" = 1'-0"

SHEET NOTES:

1. PROVIDE GAS CONNECTION KIT PER MANUFACTURER'S RECOMMENDATIONS AND CODE REGULATIONS.
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8. MATERIAL OF GAS PIPING: SCHEDULE 40 BLACK STEEL.

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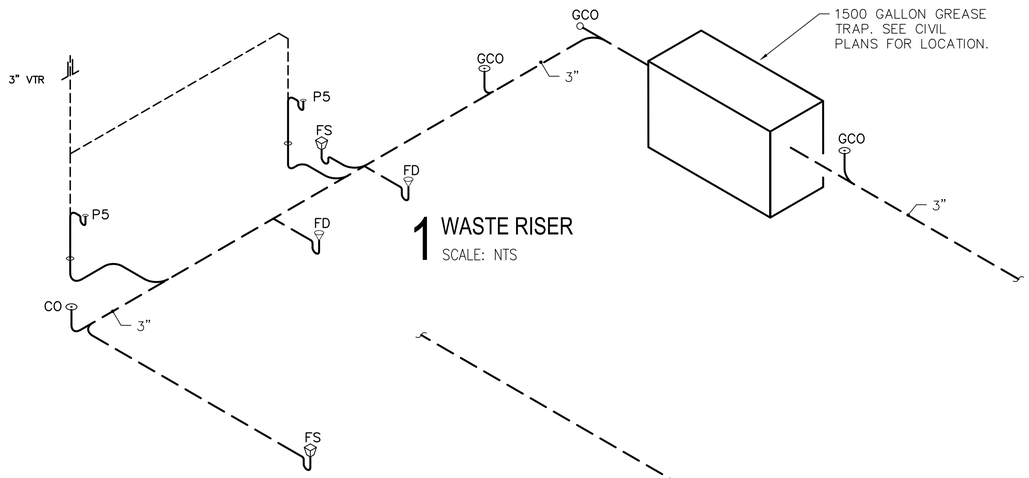
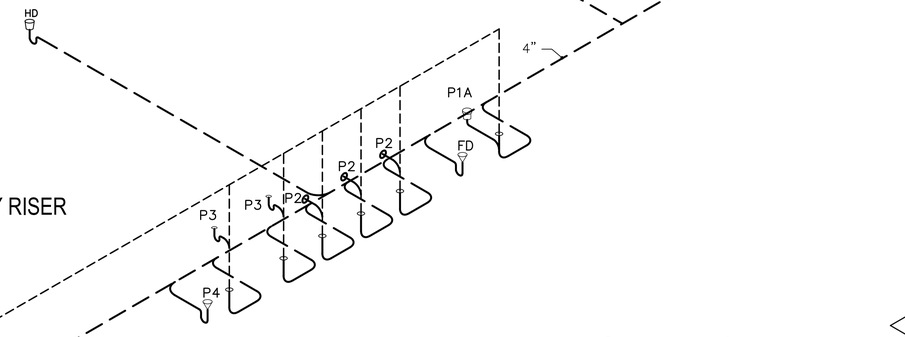
ROOF PLAN - PLUMBING

PROJECT NO: 21035

P1.2



1 WASTE RISER
SCALE: NTS



2 SANITARY RISER
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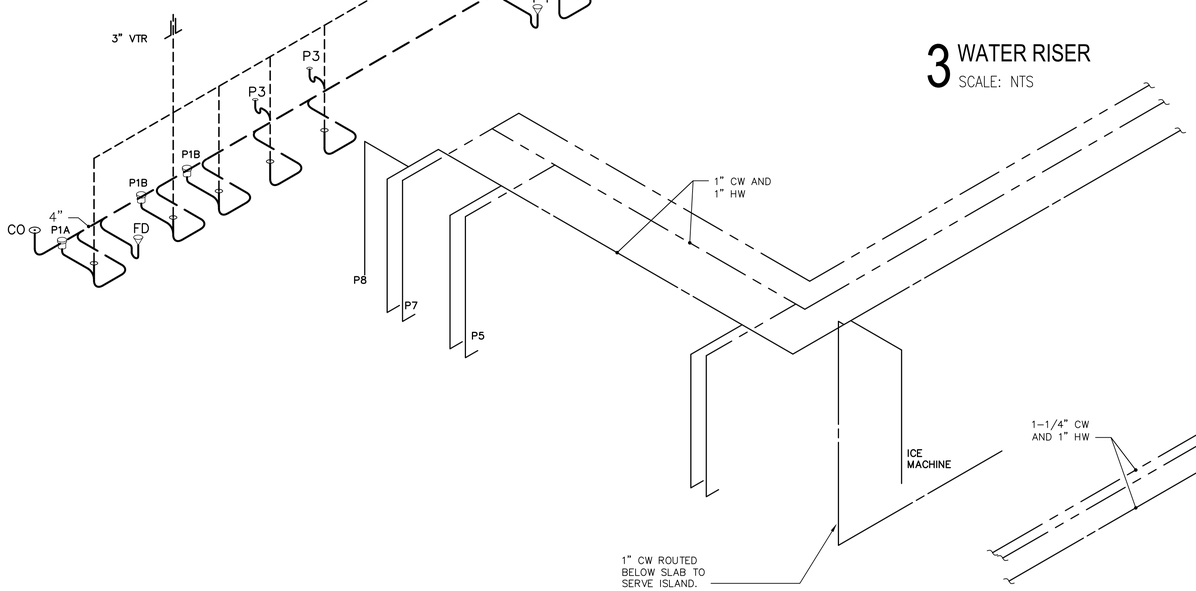

3 WATER RISER
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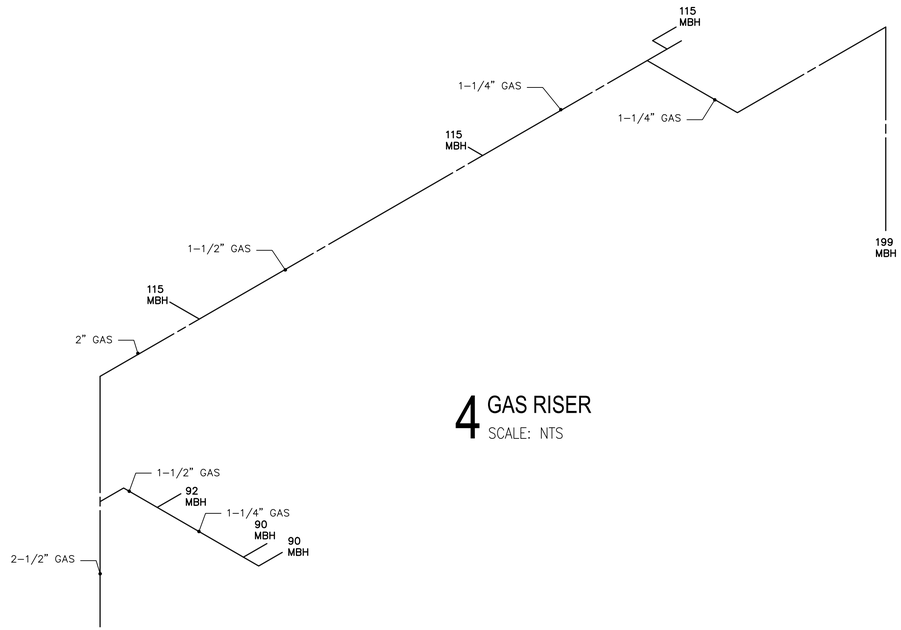

4 GAS RISER
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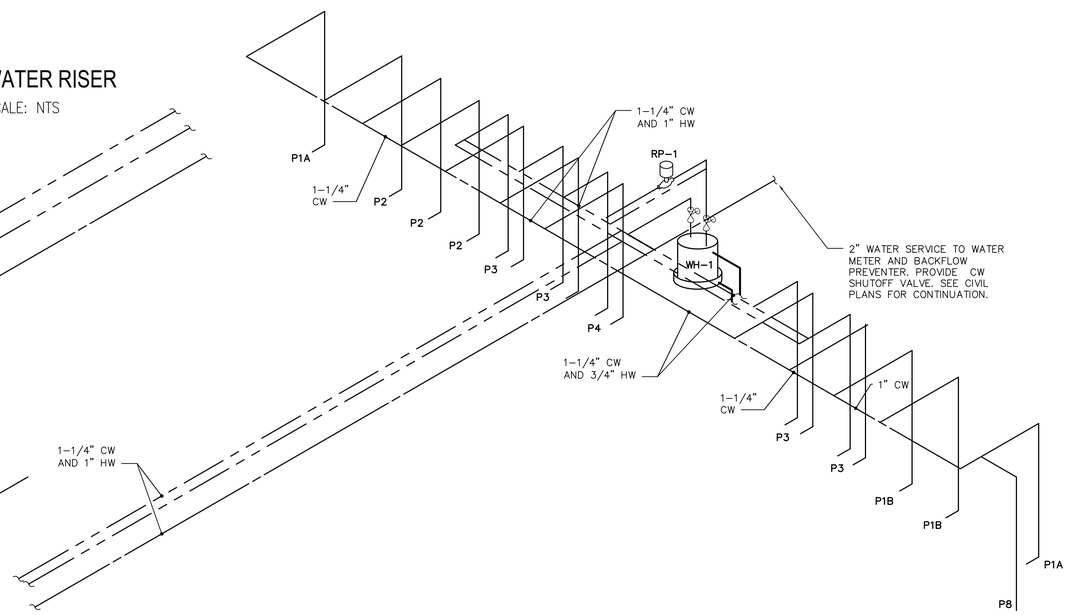

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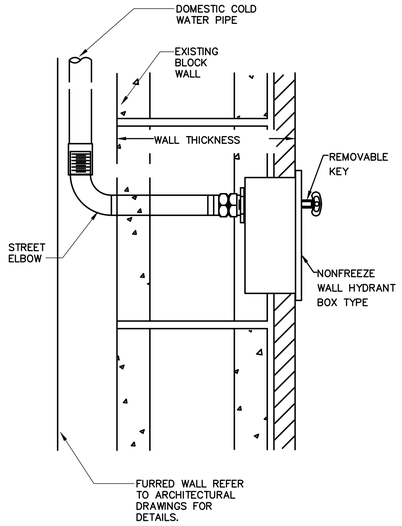
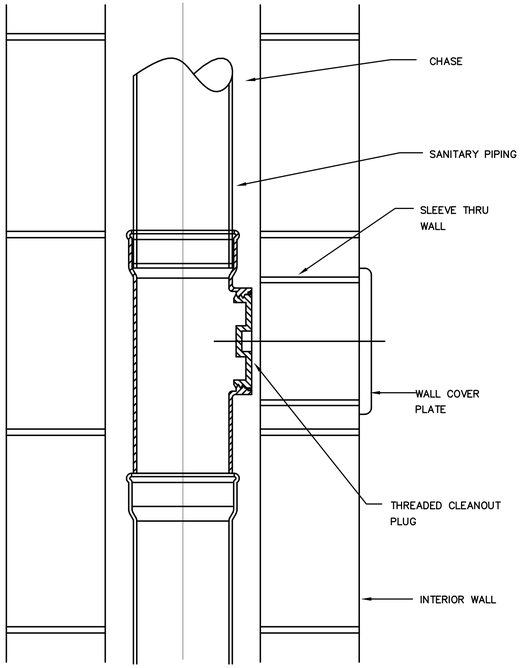
PROJECT NO: 21035

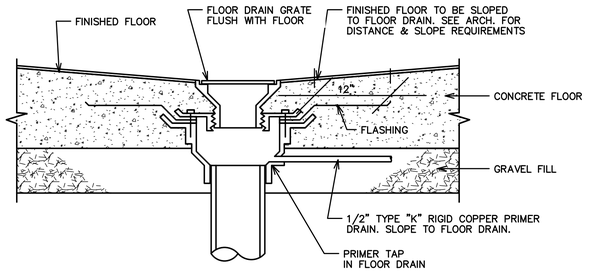
P2.1



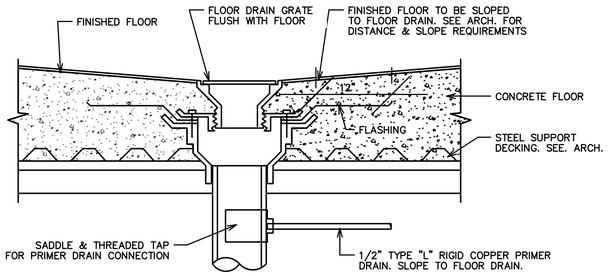
5 NONFREEZE WALL HYDRANT DETAIL
SCALE: NTS



4 WALL CLEANOUT DETAIL
SCALE: NTS



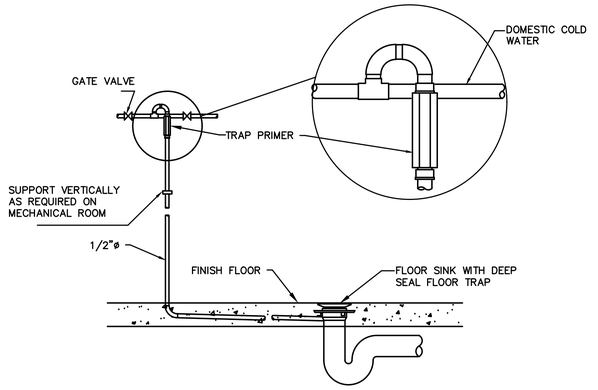
2 TYPICAL FLOOR DRAIN DETAIL @ CONC. FLOOR ON GRADE
SCALE: NTS



3 TYPICAL FLOOR DRAIN DETAIL @ CONC. FLOOR W/ STEEL SUPPORT
SCALE: NTS

NOTES:

1. PLACE IN ¾" OR ½" SIZE LINE ONLY.
2. PROVIDE DISTRIBUTION UNIT WHERE MORE THAN ONE TRAP PRIMER LINE IS REQUIRED.
3. ALL TRAP PRIMERS LOCATED IN FINISHED ROOMS SHALL BE RECESSED INSIDE PARTITION AND PROVIDED WITH ACCESS PANELS.
4. TRAP PRIMERS LOCATED IN MECHANICAL ROOMS SHALL BE EXPOSED.



1 TRAP PRIMER DETAIL
SCALE: NTS

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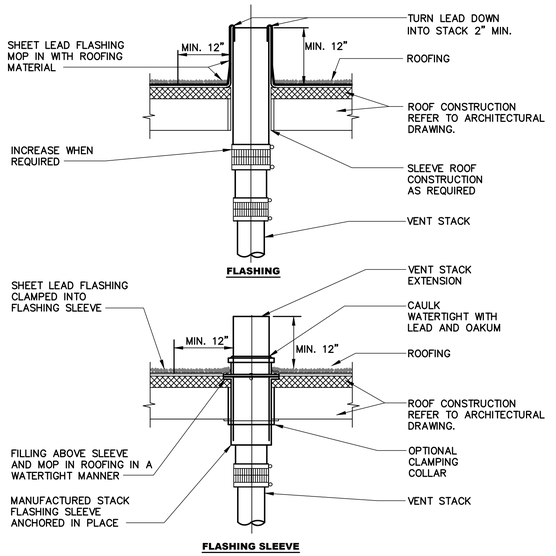
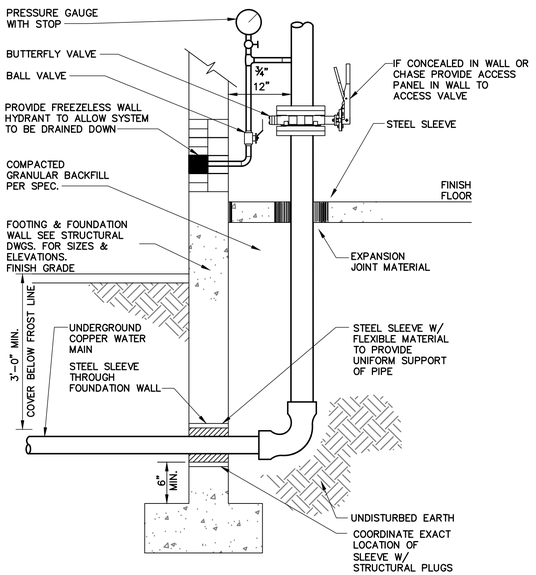
4. TRAP PRIMERS LOCATED IN MECHANICAL ROOMS SHALL BE EXPOSED.



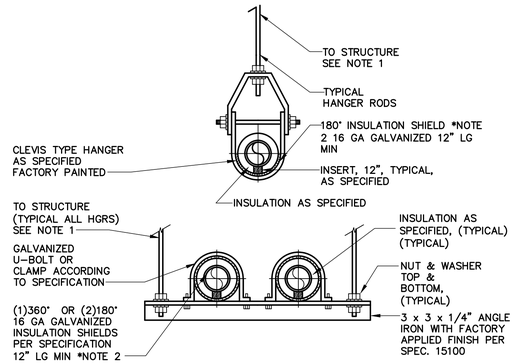
NOTE:

REFER TO ARCHITECTURAL SERIES DWGS FOR FLASHING DETIALS.

6 DETAIL - VENT THROUGH ROOF (VTR)
SCALE: NTS



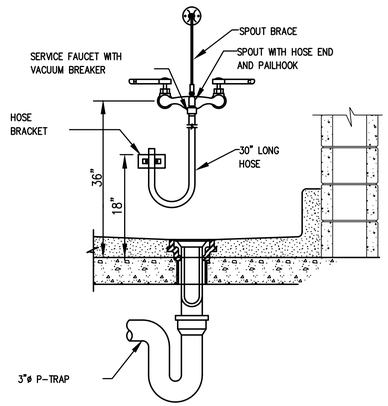
9 WATER RISER DETAIL
SCALE: NTS



8 DETAIL - PIPE HANGER
SCALE: NTS

NOTES:

1. SUBMIT ANCHORING METHOD TO STRUCTURAL ENGINEER FOR APPROVAL.
2. 180° INSULATION SHIELDS MUST BE BANDED. USE SS OR NYLON. 2 PCS EACH.
3. PIPE HANGERS, SUPPORTS AND RODS SHALL HAVE A FACTORY CADMIUM OR GALVANIZED FINISH. SEE SPEC. 15100



7 MOP SINK DETAIL
SCALE: NTS

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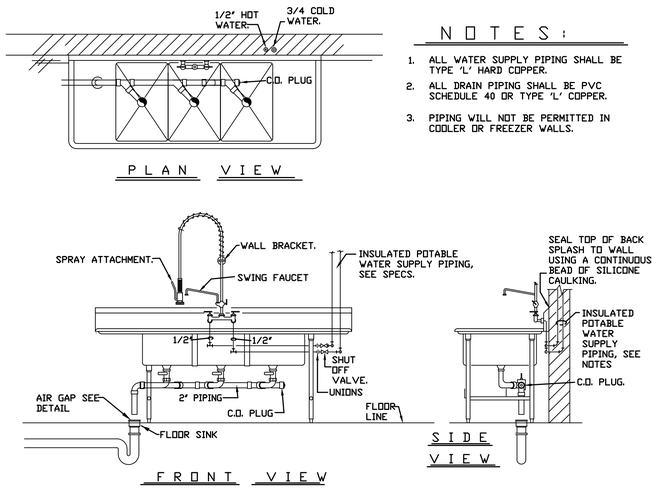
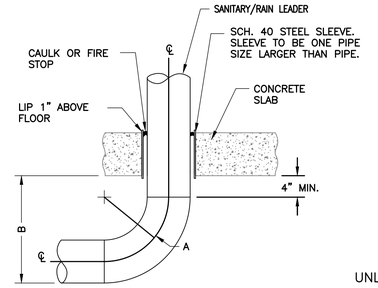
PLUMBING DETAILS

PROJECT NO: 21035

P3.1

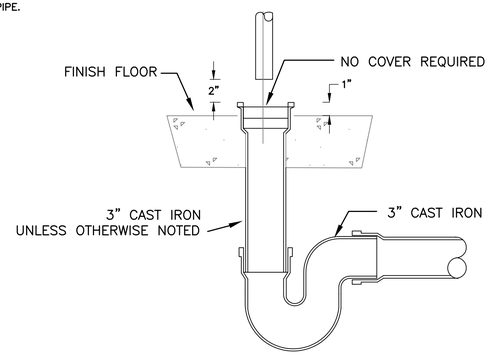


4 MULTIPLE COMPARTMENT SINK DETAIL
SCALE: NTS

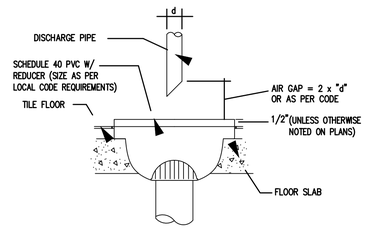


PIPE SIZE (ø)	A	B MINIMUM DEPTH
3"	4-1/2"	10"
4"	6"	12"
5"	7-1/2"	14"
6"	9"	16"
8"	12"	20"

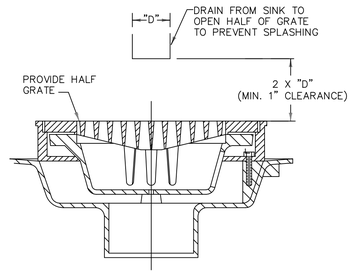
3 FLOOR PENETRATION DETAIL
SCALE: NTS



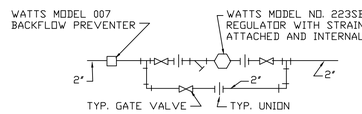
2 HUB DRAIN DETAIL
SCALE: NTS



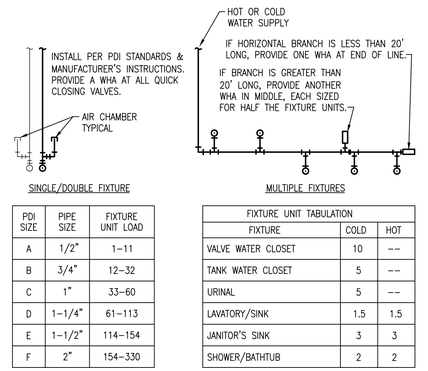
1 FLOOR SINK DETAIL W/ AIR GAP
SCALE: NTS



8 AIR GAP DETAIL
SCALE: NTS



7 PRESSURE REDUCING STATION DETAIL
SCALE: NTS



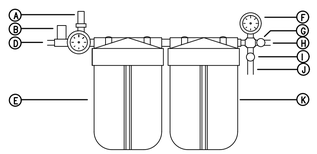
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	154-330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

FOR BATTERIES OF FIXTURES, PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON & O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 & ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESSIBILITY TO "WHA" WHERE REQUIRED BY LOCAL CODE.

6 WATER HAMMER DETAIL
SCALE: NTS

WATER FILTRATION SYSTEM
A. INLET PRESSURE REGULATOR/GAUGE
B. INLET WATER SHUTOFF
D. WATER INLET - 1/2" TUBING
E. PRE-FILTER HOUSING
F. OUTLET PRESSURE GAUGE
G. ICE MACHINE SHUTOFF
H. OUTLET
I. REMOTE FAUCET SHUTOFF
J. OUTLET
K. POST-FILTER HOUSING



5 FILTER DETAIL
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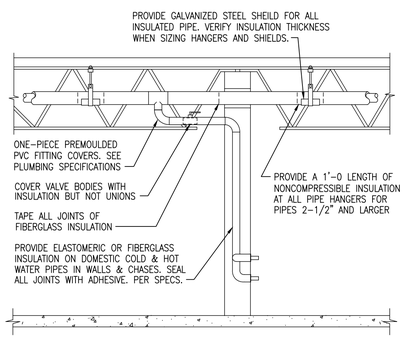
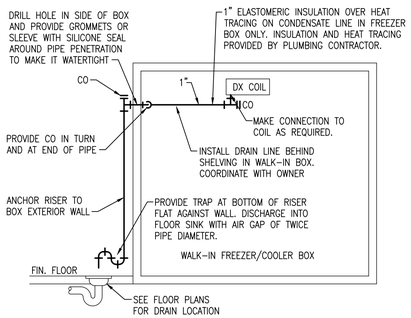
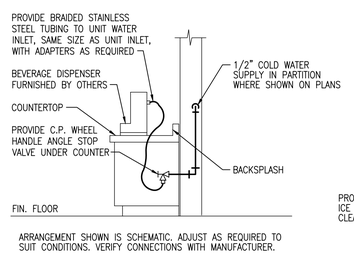


12 PIPE INSULATION DETAIL
SCALE: NTS



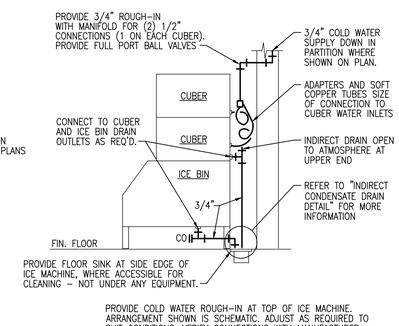
INSTALL PIPE AS HIGH AS POSSIBLE, ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT. PROVIDE CHROMATONE PAINT ON PIPE EXTERIOR TO BOX.

11 CONDENSER DRAIN FREEZER/COOLER
SCALE: NTS



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.

10 BEVERAGE DISPENSER
SCALE: NTS



PROVIDE COLD WATER ROUGH-IN AT TOP OF ICE MACHINE. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.

9 ICE MACHINE DETAIL
SCALE: NTS

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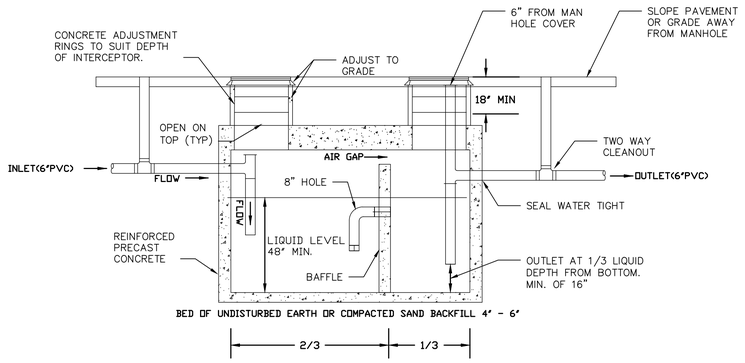
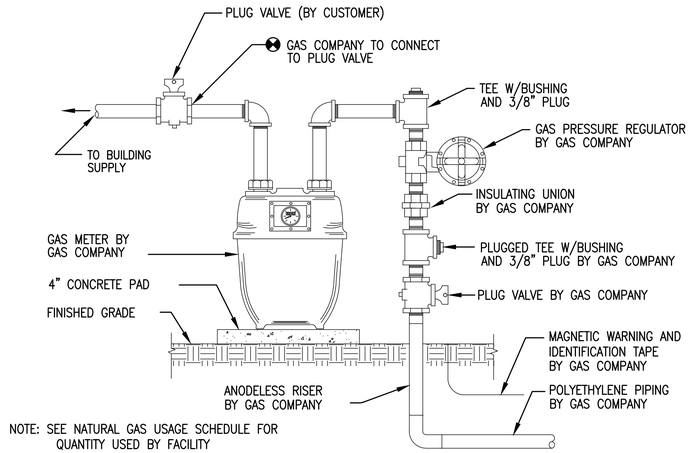
P3.2



ELEVATION

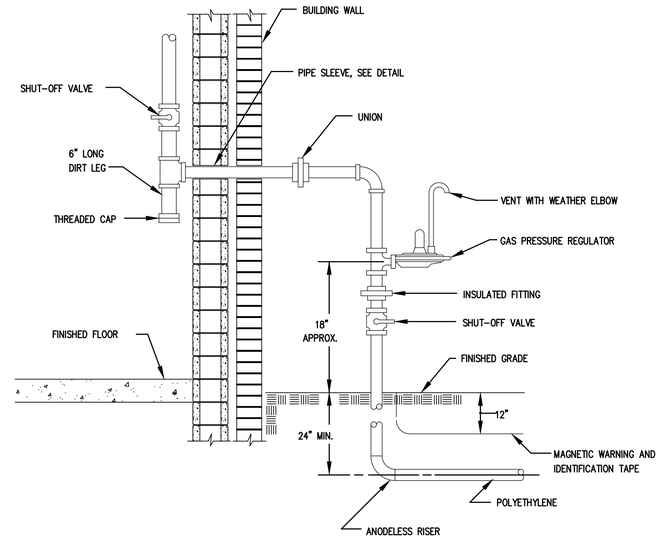
DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS.
CONTRACTOR SHALL SUBMIT PROPOSED INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO AUTHORITIES GOVERNING JURISDICTION FOR APPROVAL BEFORE ACQUISITION OF INTERCEPTOR. PROVIDE INTERCEPTOR WITH ADEQUATE STRUCTURAL STRENGTH TO ACCOMMODATE VEHICULAR TRAFFIC AT INSTALLATION LOCATION.

3 GREASE TRAP DETAILS
SCALE: NTS

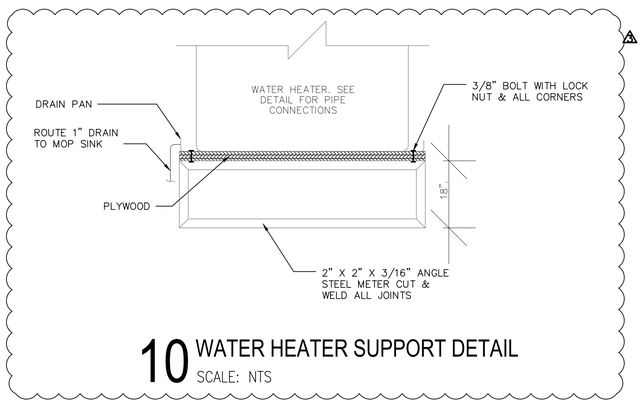


NOTE: SEE NATURAL GAS USAGE SCHEDULE FOR QUANTITY USED BY FACILITY

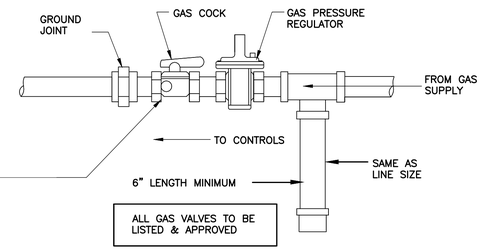
2 TYPICAL GAS SERVICE DETAIL
SCALE: NTS



1 GAS PRESSURE REGULATOR AND PENETRATION DETAIL
SCALE: NTS

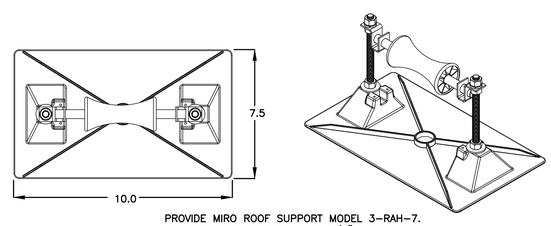


10 WATER HEATER SUPPORT DETAIL
SCALE: NTS



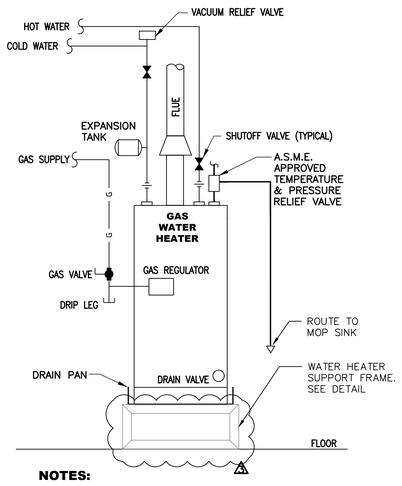
A MANUAL SHUT OFF VALVE WITH AN 1/8" N.P.T. PLUGGED TAPPING ACCESSIBLE FOR TEST GAGE CONNECTION MUST BE INSTALLED IMMEDIATELY UPSTREAM OF THE GAS SUPPLY CONNECTION TO THE APPLIANCE.

5 GAS PIPING CONNECTION DETAIL
SCALE: NTS



PROVIDE MIRO ROOF SUPPORT MODEL 3-RAH-7. MAXIMUM PIPE DIAMETER - 3-1/2"; MAXIMUM WEIGHT PER PIPE STAND - 100 LBS; PROVIDE SUPPORTS AT 8' ON CENTER.

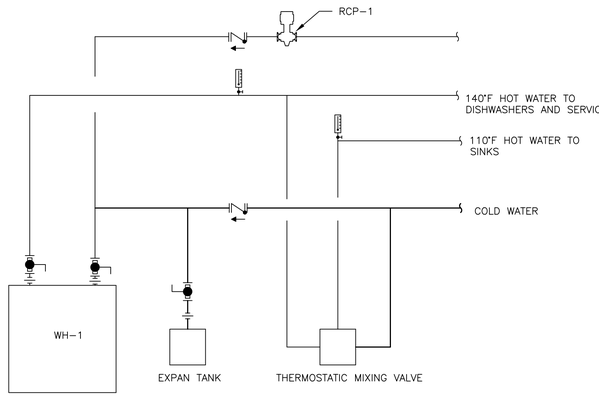
4 GAS PIPING ROOF SUPPORT
SCALE: NTS



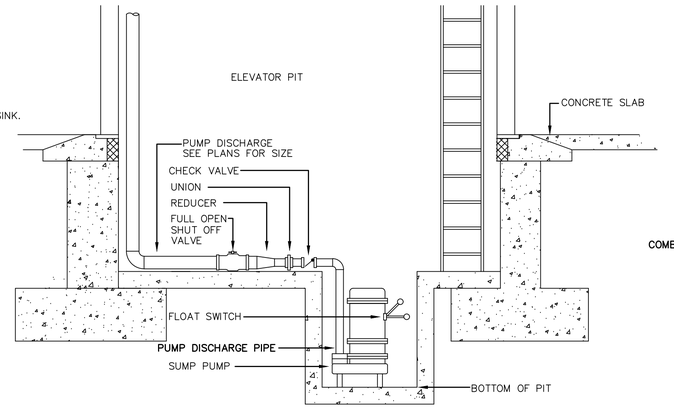
NOTES:

1. REFER TO DRAWINGS FOR PIPE SIZES AND ROUTING.

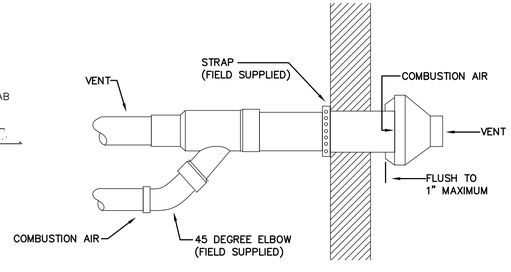
9 WATER HEATER DETAIL - GAS - FLOOR MOUNTED
SCALE: NTS



8 WATER HEATER PIPING DIAGRAM
SCALE: NTS



7 ELEVATOR SUMP PUMP DETAIL
SCALE: NTS



6 CONCENTRIC FLUE VENT DETAIL
SCALE: NTS

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03/02/2023

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ISSUED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
04.07.21	PRELIMINARY DESIGN
06.29.22	REV. 1 PER COMMENTS
09.15.22	REV. 2 PER COMMENTS
03.02.23	REV. 3 PER COMMENTS

DRAWN BY: DMB

CHK'D BY: BGB

PROJECT DESCRIPTION:

PROPOSED TWO STORY CONVENIENCE STORE

PROJECT TITLE:

C-STORE / RETAIL SPACE
4095 Pleasantdale Rd
Doraville, GA 30340

SHEET TITLE:

PLUMBING DETAILS

PROJECT NO: 21035

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