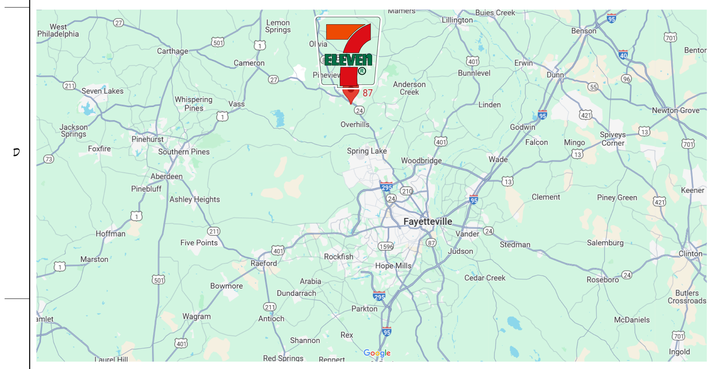
7-ELEVEN

SITE NO. 1056157
STORE NO. 42655
1360 NC 24-87, Cameron, NC 28326

VICINITY MAP



SITE LOCATION MAP

PROJECT DATA

PROJECT SIZE & TYPE

57'-8" WIDE X 67'-1" DEEP FREE STANDING, 1 STORY MERCANTILE SPACE

GROSS AREA	3,810 SF
ALLOWABLE AREA	9,000 SF

DESCRIPTION

MERCANTILE, ALTERATION

OCCUPANCY USE GROUP

MERCANTILE, GROUP M
TYPE: VB - NOT SPRINKLERED
TOTAL OCCUPANCY: REFERENCE SHEET A1.2 FOR MORE INFORMATION

RESTROOM PLUMBING FIXTURES

REQUIRED		PROVIDED	
W.C. (1:500)	1	W.C. (1:500)	3
URINAL	0	URINAL	2
LAVATORY (1:750)	1	LAVATORY (1:750)	3

- URINAL SUBSTITUTION PER IPC 424.2 - UP TO 50% OF REQUIRED FIXTURES

BUILDING HEIGHT AND AREA MODIFICATIONS

1 STORY BUILDING
HEIGHT = +/- 18'-0"
AREA = (GROSS) 3,810 SF

BUILDING CODES

BUILDING CODE	2018 NORTH CAROLINA STATE BUILDING CODE
ELECTRICAL CODE	2020 NATIONAL ELECTRIC CODE, NFPA 70
MECHANICAL CODE	2018 NORTH CAROLINA STATE BUILDING CODE: ELECTRICAL CODE
PLUMBING CODE	2018 NORTH CAROLINA STATE BUILDING CODE: PLUMBING CODE
FIRE CODE	2018 NORTH CAROLINA STATE BUILDING CODE: FIRE PREVENTION CODE
ACCESSIBILITY CODE	2018 NORTH CAROLINA BUILDING CODE (BASED ON THE 2015 IBC)2009 ANSI A117.1
ENERGY CODE	2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE

SUMMARY OF WORK

- RENOVATION OF A ONE STORY, CONVENIENCE STORE BUILDING. INTENT IS TO REMOVE THE EXISTING TENANT FINISHES FROM THE STORE AND UPDATE INTERIOR CONSTRUCTION AS REQUIRED TO REBRAND STORE TO A 7-11.
- EXTERIOR SIGNAGE (SHALL BE SUBMITTED SEPARATELY FOR PERMIT BY SIGN VENDOR).
- SEE DRAWINGS FOR FULL SCOPE OF WORK FOR ENTIRE PROJECT. THIS SUMMARY DOES NOT CHANGE OR SUPERSEDE WHAT IS SHOWN IN DRAWINGS.

PROJECT DIRECTORY

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SHEET INDEX

Reviewed for Fire Code Compliance
Harnett County, North Carolina
Roger Sullivan
06/25/2025 1:10:45 PM

7-ELEVEN, INC.
VALUE ENGINEERING SURVEY
SCAN THE QR CODE TO SUBMIT YOUR VALUE ENGINEERING IDEA!

BRIAN D. LAUG, AIA NCARB
ARCHITECT

16925 OLD SAWMILL ROAD
WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-ELEVEN 42655 CST
1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:
COVER SHEET

ISSUE / REVISIONS:

No.	DATE	DESCRIPTION
1	6/6/2025	BID & PERMIT SET

SEAL:
BRIAN D. LAUG, REGISTERED ARCHITECT, 13568, NORTH CAROLINA, WOODBINE, MD
6/11/2025

DRAWN BY: BMB	CHECKED BY: JK
SCALE:	PROJECT No.: 24088
DATE: 6/6/2025	FILE NAME:

SHEET NO:
CS

ABBREVIATIONS

NOT ALL ABBREVIATIONS MAY BE USED IN THIS DOCUMENT

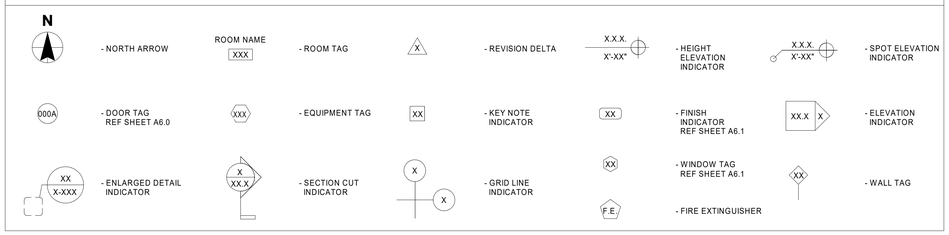
AB	ANCHOR BOLT	GA	GAGE, GAUGE	NIC	NOT IN CONTRACT	SP	SOUNDPROOF
ACP	ACOUSTICAL CEILING PANEL	GV	GALVANIZED	NTS	NOT TO SCALE	S	SOUTH
ACT	ACOUSTICAL CEILING TILE	GKT	GASKET, (ED)	NO	NUMBER	SPC	SPACE, (R)
ADH	ADHESIVE	GC	GENERAL CONTRACT, (OR)			SGL	SPANDREL GLASS
ADJ	ADJUSTABLE	GL	GLASS, GLAZING	OC	ON CENTER, (S)	SPK	SPEAKER
AFF	ABOVE FINISHED FLOOR	GLB	GLASS BLOCK	OP	OPAQUE	SPL	SPECIAL
AFG	ABOVE FINISH GRADE	GCMU	GLAZED CONCRETE	OPG	OPENING	SPEC	SPECIFICATION
AHU	AIR HANDLING UNIT		MASONRY UNITS	OPH	OPPOSITE HAND	SPH	SPLASH
ALT	ALTERNATE	GLAM	GLAZED LAMINATE	ORN	ORNAMENTAL	SQ	SQUARE
ALUM	ALUMINUM	GB	GRAB BAR	OD	OUTSIDE DIAMETER	SF	SQUARE FEET
AP	ACCESS PANEL	GD	GRADE, (ING)	OA	OVERALL	SST	STAINLESS STEEL
APC	ARCHITECTURAL PRECAST	GRN	GRANITE	OH	OPPOSITE HAND	STGL	STAINED GLASS
	CONCRETE	GRT	GRATE, (ING)			STD	STANDARD
AHJ	AUTHORITY HAVING	GVL	GRAVEL	PNT	PAINT, (ED)	STA	STATION
	JURISDICTION	GRHS	GREENHOUSE	PNL	PANEL, (ING)	ST	STEEL
		GT	GROUT	PB	PANIC BAR	STO	STORAGE
BO	BOTTOM OF	GRD	GUARD	PTD	PAPER TOWEL DISPENSER	SD	STORM DRAIN
BD	BOARD	GUT	GUTTER	PTR	PAPER TOWEL RECEPTOR	STR	STRUCTURAL
BLDG	BUILDING	GPDW	GYPSUM DRYWALL	PAR	PARALLEL	STCO	STUCCO
BLKNG	BLOCK (BLOCKING)	GPL	GYPSUM LATH	PRPT	PARAPET	SFLR	SUBFLOOR
B.M.	BENCH MARK	GPPL	GYPSUM PLASTER	PK	PARKING	SA	SUPPLY AIR
BOT	BOTTOM	GPT	GYPSUM TILE	PBD	PARTICLE BOARD	SUS	SUSPENDED
BSMT	BASEMENT	GPW	GYPSUM WALLBOARD	PTN	PARTITION	SYD	SIDE YARD
				PV	PAVE, (D), (ING)	SYM	SYMMETRY, (ETRICAL)
CG	CORNER GUARD	HC	HANDICAP	PVMT	PAVEMENT	SYN	SYNTHETIC
CL	CENTERLINE	HRL	HANDRAIL	PERF	PERFORATE, (D)	SYS	SYSTEM
CJ	CONTROL JOINT	HBO	HARDBOARD	PER	PERIMETER		
CI	CAST IRON	HDW	HARDWARE	PEX	PEX TUBING	TKBD	TACKBOARD
CLG	CEILING	HWD	HARDWOOD	PTR	PLANTER	TEL	TELEPHONE
CLR	CLEAR	HDR	HEADER	PLTG	PLANTING	TV	TELEVISION
CMU	CONCRETE MASONRY UNIT	HTG	HEATING	PLAS	PLASTER	T	TEMPERED GLASS
CO	CLEAN OUT	HVAC	HEATING/VENTILATION/AIR	PLA	PLASTIC	TIG	TEMPERED INSULATED GLASS
COL	COLUMN		CONDITIONING	PLAM	PLASTIC LAMINATE	TZ	TERRAZZO
CONC	CONCRETE	HD	HEAVY DUTY	PL	PLATE	THK	THICK, (NESS)
CONST	CONSTRUCTION	HT	HEIGHT	PG	PLATE GLASS	THR	THRESHOLD
CONT	CONTINUOUS	HPT	HIGH POINT	PWD	PLYWOOD	TBRL	TO BE RELOCATED
CORR	CORRIDOR	HCR	HOLLOW CORE	PT	POINT	TOBR	TO BE REMOVED
CPVC	CHLORINATED POLYVINYL	HOR	HORIZONTAL	PVC	POLYVINYL CHLORIDE	TPD	TOILET PAPER DISPENSER
	CHLORIDE	HB	HOSE BIBB	PE	PORCELAIN ENAMEL	TPTN	TOILET PARTITION
CS	COUNTERSUNK			PCPL	PORTLAND CEMENT PLASTER	TOL	TOLERANCE
CT	CERAMIC TILE	INCAN	INCANDESCENT	PD	POUND, (S)	T&G	TONGUE AND GROOVE
CVR	COVER	INCIN	INCINERATOR	PCF	POUNDS PER CUBIC FOOT	TSL	TOP OF CONCRETE SLAB
		INCL	INCLUDE, (ED), (ING)	PLF	POUNDS PER LINEAR FOOT	TC	TOP OF CURB
DP	DAMP PROOFING	ID	INSIDE DIAMETER	PSF	POUNDS PER SQUARE FOOT	TJ	TOP OF JOIST
DD	DECK DRAIN	INS	INSULATE, (ED), (ING)	PSI	POUNDS PER SQUARE INCH	TP	TOP OF PLATE
DEMO	DEMOLITION	INSC	INSULATING CONCRETE	PCC	PRECAST CONCRETE	TST	TOP OF STEEL
DEPT	DEPARTMENT	IGL	INSULATING GLASS	PFB	PREFABRICATE, (ED)	TSF	TOP OF SUBFLOOR
DET	DETAIL	INT	INTERIOR	PFN	PREFINISHED	TW	TOP OF WALL
DF	DRINKING FOUNTAIN	INTM	INTERMEDIATE	PRF	PERFORATED	TPG	TOPPING
DIA	DIAMETER	INV	INVERT	PREM	PREMOLDED	TOR	TO REMAIN
DIAG	DIAGONAL			PT	PRESSURE TREATED	TB	TOWEL BAR
DIM	DIMENSION	JC	JANITOR'S CLOSET	PLT	PROPERTY LINE	TR	TRANSOM
DISP	DISPENSER	JT	JOINT			TS	TUBE STEEL
DL	DEAD LOAD	JF	JOINT FILLER	QT	QUARRY TILE	TRNB	TURNBUCKLE
DN	DOWN	J	JOIST			TYP	TYPICAL
DR	DOOR			RBT	RABBET, REBATE		
DS	DOWNSPOUT	KPL	KICKPLATE	RAD	RADIUS	UC	UNDERCUT
DWG	DRAWING	KIT	KITCHEN	RFT	RAFTER	UNF	UNFINISHED
		KO	KNOCKOUT	RL	RAIL, (ING)	UNO	UNLESS NOTED OTHERWISE
E	EAST			REC	RECESS, (ED)	UR	URINAL
EA	EACH	LBL	LABEL	REF	REFER, (ENCE)	UTL	UTILITY
EC	EXPOSED CONSTRUCTION	LAB	LABORATORY	RFL	REFLECT, (ED), (IVE), (OR)		
EIFS	EXTERIOR INSULATION	LAD	LADDER	REFR	REFRIGERATOR	VJ	V-JOINT
	FINISH SYSTEM	LB	LAG BOLT	REG	REGISTER	VB	VAPOR BARRIER
EJ	EXPANSION JOINT	LAM	LAMINATE, (ED)	REN	REINFORCE, (ED), (ING)	VAR	VARNISH
EL	ELEVATION	LGL	LAMINATED GLASS	RECP	REINFORCED CONCRETE PIPE	VNR	VENEER
ELEC	ELECTRICAL	LAV	LAVATORY	REM	REMOVE, (ABLE)	VERT	VERTICAL
ELEV	ELEVATOR	LO	LAYOUT	REQ'D	REQUIRED	VG	VERTICAL GRAIN
EMER	EMERGENCY	LH	LEFT HAND	RES	RESILIENT	VN	VINYL
ENCL	ENCLOSURE	L	LENGTH	RET	RETURN	VB	VINYL BASE
EQ	EQUAL	LT	LIGHT	RA	RETURN AIR	VCT	VINYL COMPOSITION TILE
EQUIP	EQUIPMENT	LW	LIGHTWEIGHT	RVS	REVERSE (SIDE)	VF	VINYL FABRIC
ETR	EXISTING TO REMAIN	LMS	LIMESTONE	REV	REVISE, (S), (ED)	VT	VINYL TILE
EWC	ELECTRICAL WATER COOLER	LTL	LINTEL	RH	RIGHT HAND	VICP	VITREOUS CLAY PIPE
EWS	EMERGENCY WASH STATION	LL	LIVE LOAD	ROW	RIGHT OF WAY	VICT	VITREOUS CLAY TILE
EXH	EXHAUST	LOC	LOCATE	R	RISER		
EXIST	EXISTING	LLD	LOOSE LAND	RVT	RIVET	WSCT	WAINSCOT
EXP	EXPANSION	LV	LOUVER	R&S	ROD AND SHELF	WH	WALL HUNG
EXT	EXTERIOR	LPT	LOW POINT	RD	ROOF DRAIN	WC	WATER CLOSET
				RFH	ROOF HATCH	WHTR	WATER HEATER
FOC	FACE OF CONCRETE	MB	MACHINE BOLT	RFG	ROOFING	WP	WATERPROOFING
FOF	FACE OF FINISH	MH	MANHOLE	RM	ROOM	WR	WATER RESISTANT
FOM	FACE OF MASONRY	MFR	MANUFACTURE, (ER)	RO	ROUGH OPENING	WS	WATERSTOP
FOS	FACE OF STUDS	MRB	MARBLE	RS	ROUGH SAWN	WST	WEATHERSTRIP, (ING)
FAS	FASTEN,FASTENER	MAS	MASONRY	RCP	ROUND CONCRETE PIPE	WWF	WELDED WIRE FABRIC
FN	FENCE	MTL	MATERIAL	ROK	ROWLOCK	W	WEST
FBD	FIBERBOARD	MAX	MAXIMUM	RB	RUBBER BASE	WHS	WHEEL STOP
FGL	FIBERGLASS	MECH	MECHANIC, (AL)	RBT	RUBBER TILE	WHA	WATER HAMMER ARRESTOR
FIN	FINISH (ED)	MC	MEDICINE CABINET	RBL	RUBBER STONE	WID	WIDTH; WIDE
FFE	FINISHED FLOOR ELEVATION	MED	MEDIUM			WIN	WINDOW
FFL	FINISHED FLOOR LINE	MDO	MEDIUM DENSITY OVERLAY	SFGL	SAFETY GLASS	WG	WIRED GLASS
FA	FIRE ALARM	MBR	MEMBER	SCH	SCHEDULE	WM	WIRE MESH
FE	FIRE EXTINGUISHER	MMB	MEMBRANE	SCN	SCREEN, (ED)	WO	WITHOUT
FEC	FIRE EXTINGUISHER CABINET	MET	METAL	SCUP	SCUPPER	WD	WOOD
FHS	FIRE HOSE STATION	M	METER, (S)	SLNT	SEALANT	WI	WROUGHT IRON
FPL	FIREPLACE	MW	MICROWAVE	STG	SEATING		
FP	FIREPROOF	MM	MILLIMETER, (S)	SEC	SECTION		
FRT	FIRE-RETARDANT	MIN	MINIMUM	SEI	7-ELEVEN INC.		
FXT	FIXTURE	MR	MIRROR	SVYD	SERVICE YARD		
FLG	FLASHING	MGL	MIRROR GLASS (FRAMED)	SSK	SERVICE SINK		
FLX	FLEXIBLE	MISC	MISCELLANEOUS	SHTH	SHEATH, (ING)		
FG	FLOAT GLASS	MOD	MODULAR	SHT	SHEET		
FLR	FLOOR (ING)	MLD	MOLDING, MOULDING	SG	SHEET GLASS		
FD	FLOOR DRAIN	MR	MOP RECEPTOR	SH	SHELF, SHELVING		
FL	FLOW LINE	MS	MOP SINK	SHNG	SHINGLE, (S)		
FLUR	FLUORESCENT	MT	MOUNT, (ED), (ING)	SHU	SHUTTER, (S)		
FJT	FLUSH JOINT	MOV	MOVABLE	SDG	SIDING		
FTG	FOOTING	MULL	MULLION	SM	SIMILAR		
FND	FOUNDATION			SKL	SKYLIGHT		
FR	FRAME (D), (ING)	NL	NAILABLE	SL	SLEEVE		
FS	FULL SIZE	NAT	NATURAL	SLO	SLOPE		
FUR	FURRED, (ING)	NI	NICKEL	SOL	SOLDIER		
FUT	FUTURE	NR	NOISE REDUCTION	SC	SOLID CORE		
FW	FILTERED WATER	NOM	NOMINAL				
		N	NORTH				

BID NOTES

1. PROVIDE SEPARATE ITEMIZED LIST FOR ALL WORK (LABOR & MATERIALS & OVERHEAD) ASSOCIATED WITH THE FOLLOWING ITEMS:

   A. FLOOR FINISHES.
   B. CONC SLAB CUTTING & PATCHING
   C. CEILINGS.
   D. LIGHTING.
   E. HVAC.

REFERENCE SYMBOLS



GENERAL NOTES

* GENERAL NOTES APPLY TO ALL CONSTRUCTION DOCUMENTS.

A. GENERAL

1. ALL CONTRACTORS AND SUBCONTRACTORS WILL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE CONSTRUCTION DOCUMENTS AND WILL VERIFY EXISTING SITE AND CONDITIONS PRIOR TO SUBMITTING A BID. ALL SUBCONTRACTORS WILL PROVIDE ALL LABOR, SUPERVISION, AND MATERIALS AS REQUIRED. ALL WORK TO BE PERFORMED IN A GOOD AND WORKMANLIKE MANNER ACCORDING TO THE TRUE INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS.
2. THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL OF AND WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THIS PROJECT OR FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE, NOR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE INTENT OF THE CONTRACT AND CONSTRUCTION DOCUMENTS.
3. ALL CONTRACTORS WILL PROVIDE ADEQUATE BRACING AND SHORING TO ENSURE STRUCTURAL STABILITY OF THE BUILDING AND ALL RELATED BUILDING COMPONENTS, IE: STRUCTURAL WALLS, INTERIOR WALL ASSEMBLIES, ETC. DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
4. WORK WILL BE COORDINATED WITH ALL TRADES IN ORDER TO AVOID INTERFERENCE, AND AVOID OMISSIONS.
5. ALL MATERIALS USED WILL BE NEW AND BEAR U.L. LABELS WHERE REQUIRED AND MEET APPROPRIATE N.E.M.A. STANDARDS.
6. LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS.
7. EACH SUBCONTRACTOR WILL AMEND AND MAKE GOOD AT HIS OWN COST, ANY DEFECTS OR OTHER FAULTS IN HIS WORKMANSHIP AND/OR HIS SUPPLIED MATERIALS.
8. ALL CONTRACTORS WILL GUARANTEE ALL LABOR AND CONTRACTOR PROVIDED MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF OCCUPANCY.
9. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING, CUTTING AND/OR INSTALLING MATERIAL, PRODUCT OR EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, CONTACT THE CONSTRUCTION PROJECT MANAGER BEFORE PROCEEDING WITH THAT WORK.
10. ALL SUBCONTRACTORS WILL PROVIDE A CERTIFICATE OF INSURANCE TO THE GENERAL CONTRACTOR PRIOR TO STARTING ANY WORK ON THIS PROJECT. CERTIFICATE OF INSURANCE CANNOT BE TERMINATED OR CANCELED WITHOUT 10 DAYS PRIOR WRITTEN NOTICE TO THE CONSTRUCTION PROJECT MANAGER.
11. ANY ADDITIONS OR CHANGES TO WORK MUST BE AUTHORIZED IN WRITING BY THE ARCHITECT OR ENGINEER OF RECORD. NO ALTERATIONS WILL BE MADE ON THIS PROJECT EXCEPT UPON WRITTEN ORDER BY THE ARCHITECT OR ENGINEER OF RECORD AND 7-ELEVEN REP.
12. NO SUBSTITUTIONS OF ANY KIND FOR MATERIALS SPECIFIED ON THESE CONSTRUCTION DOCUMENTS IS ALLOWED. NO "EQUIVALENT" SUBSTITUTIONS WILL BE MADE, UNLESS DUE TO THE LACK OF AVAILABILITY OF THE ORIGINAL MATERIAL SPECIFIED AND APPROVED IN WRITING BY THE CONSTRUCTION PROJECT MANAGER AND THE ARCHITECT OR ENGINEER OF RECORD.
13. WEATHER CONDITIONS: CONTRACTORS WILL PROTECT ALL PARTS OF THEIR WORK FROM WEATHER DAMAGE DUE TO FROST, RAIN, HEAT, ETC. AND WILL MAKE GOOD TO THE SATISFACTION OF THE CONSTRUCTION PROJECT MANAGER AND GENERAL CONTRACTOR ANY PORTION OF THE WORK WHICH MAY HAVE BECOME DAMAGED.
14. RESPONSIBILITY OF CONTRACTORS: EACH SUBCONTRACTOR AND THE GENERAL CONTRACTOR ARE RESPONSIBLE FOR WORKMANSHIP AND MATERIALS. EACH SUBCONTRACTOR AND THE GENERAL CONTRACTOR ARE RESPONSIBLE FOR THE CARE AND PROTECTION OF HIS OWN WORK AND MATERIALS.
15. SITE SAFETY: EACH CONTRACTOR WILL ABIDE BY LOCAL AREA STANDARDS AND RELATED OSHA STANDARDS FOR THE PROTECTION AND SAFETY FOR THEIR EMPLOYEES ON SITE. THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL BE HELD HARMLESS BY THE OWNER, GENERAL CONTRACTOR AND RELATED AWARDED TRADES ON THIS PROJECT FOR ACCIDENTS OR INJURIES CAUSED OR ACCRUED ON THIS PROPERTY DURING THE PRE/ACTUAL/POST CONSTRUCTION PHASES OF THIS PROJECT.
16. LIENS: ALL SUBCONTRACTORS AND THE GENERAL CONTRACTOR WILL DELIVER TO THE CONSTRUCTION PROJECT MANAGER, A COMPLETE RELEASE OF ALL CLAIMS ARISING OUT OF THIS CONTRACT.
17. PILFERAGE: EACH CONTRACTOR WILL BE RESPONSIBLE FOR HIS OWN EQUIPMENT AND MATERIALS USED IN CONSTRUCTION INCLUDING THOSE ITEMS FURNISHED BY 7-ELEVEN, INC. AND DELIVERED TO THE JOB SITE, TO BE INSTALLED BY THE CONTRACTOR. 7-ELEVEN, INC. WILL NOT BE HELD LIABLE FOR STOLEN EQUIPMENT, MATERIALS OR DAMAGE OF THE SAME ON THIS JOB SITE.
18. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF DEBRIS ACCUMULATED BY EACH TRADE. HOWEVER, EACH TRADE WILL KEEP THE JOB SITE CLEAN AND SAFE AT ALL TIMES, ALONG WITH A BROOM FINISH AT THE END OF EACH WORKING DAY.
19. SCHEDULE OF WORK: THE CONSTRUCTION PROJECT MANAGER WILL STATE TO THE GENERAL CONTRACTOR DURING THE BIDDING PROCESS, THE REQUIRED NUMBER OF CALENDAR DAYS TO COMPLETE THIS WORK.
20. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
21. MATERIALS AND SYSTEMS NOTES ARE TYPICAL IN NATURE AND APPLY TO MULTIPLE DRAWINGS. NOTES ON ANY ONE DRAWING ARE TO APPLY TO ALL OTHER SIMILAR MATERIALS AND SYSTEMS UNLESS NOTED OTHERWISE. THE GENERAL NOTES APPLY TO ALL THE CONSTRUCTION DOCUMENTS.
22. ELEVATIONS REFERENCED ON ARCHITECTURAL DRAWINGS ARE TOP OF SLAB LEVELS UNLESS NOTED OTHERWISE.
23. GENERAL CONTRACTOR TO COORDINATE FLOOR AND WALL PENETRATIONS WITH THE CONSTRUCTION PROJECT MANAGER, INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL AND PLUMBING.
24. FOR THE PURPOSE OF THESE DRAWINGS AND SPECIFICATIONS, THE TERM "BY 7-ELEVEN" SHALL MEAN ITEM PROVIDED BY 7-ELEVEN, INC. AND INSTALLED BY CONTRACTOR AS PART OF THE WORK OF THIS CONTRACT. THE TERM "NOT IN CONTRACT" (NIC) SHALL MEAN ITEM PROVIDED AND INSTALLED BY 7-ELEVEN, INC. UNDER SEPARATE CONTRACT.
25. GENERAL CONTRACTOR TO COORDINATE WITH THE CONSTRUCTION PROJECT MANAGER FOR ALL ROOF PATCHWORK, REPAIR, AND/OR REPLACEMENT.

B. DIMENSIONING

1. ALL DIMENSIONS ARE IN FEET-INCHES UNLESS NOTED OTHERWISE.
2. DIMENSIONS GOVERN. DO NOT SCALE DRAWINGS.
3. VERIFY DIMENSIONS IN THE FIELD BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT OF RECORD OF ANY DISCREPANCIES.
4. EXTERIOR WALLS ARE DIMENSIONED TO THE EXTERIOR FACE OF STRUCTURAL SHEATHING OR CMU BLOCK UNLESS NOTED OTHERWISE.
5. INTERIOR WALLS AND PARTITIONS ARE DIMENSIONED TO FINISHED FACE UNLESS NOTED OTHERWISE.
6. DOORS ARE LOCATED BY THEIR JAMB RELATIVE TO ADJACENT WALLS AND PARTITIONS. DOOR OPENINGS ARE DIMENSIONED TO THE STRIKE OR HINGE FACE OF THE DOOR FRAMES. ALL INTERIOR DOORS AT 6" FROM PARTITION WALL UNLESS NOTED OTHERWISE.

C. MISCELLANEOUS

1. SEAL EXTERIOR JOINTS AROUND DOORS, WINDOWS AND LOUVER FRAMES AND AT PENETRATIONS OF MECHANICAL, ELECTRICAL AND PLUMBING ELEMENTS TO PREVENT AIR AND WATER LEAKAGE.
2. ISOLATE DISSIMILAR METALS EFFECTIVELY FROM EACH OTHER TO PREVENT ELECTROLYTIC ACTION.
3. PROVIDE ACCESS PANELS AS REQUIRED FOR MECHANICAL AND PLUMBING VALVES.

BRIAN D. LAUG, AIA NCARB
ARCHITECT

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443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

GENERAL NOTES, ABBREVIATIONS, & SYMBOLS LEGEND

ISSUE/REVISIONS:

No.	DATE	DESCRIPTION
1	6/6/2025	BID & PERMIT SET

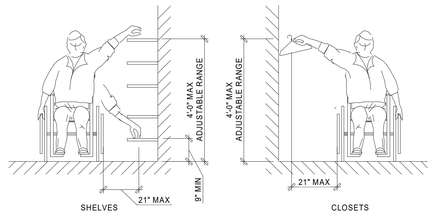
SEAL:

DRAWN BY: Author	CHECKED BY: Checker
SCALE: 1/4" = 1'-0"	PROJECT No.: 24088
DATE: 6/6/2025	FILE NAME:

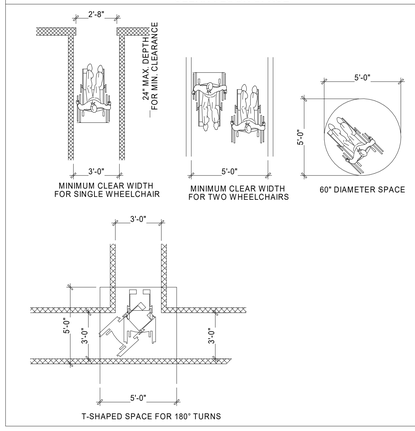
SHEET NO.

A1.0

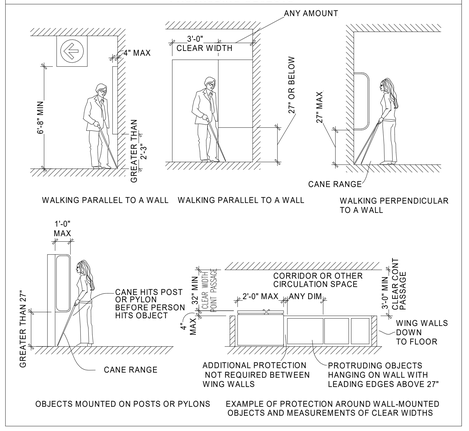
REACH



CLEAR FLOOR SPACE

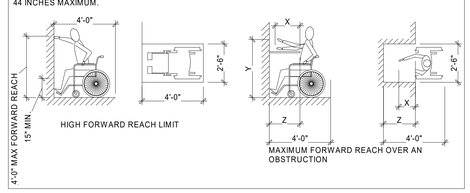


PROTRUDING OBJECTS

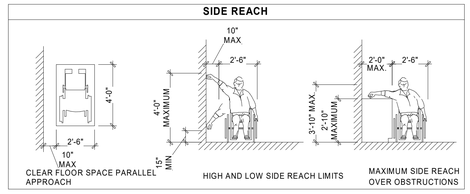


FORWARD REACH

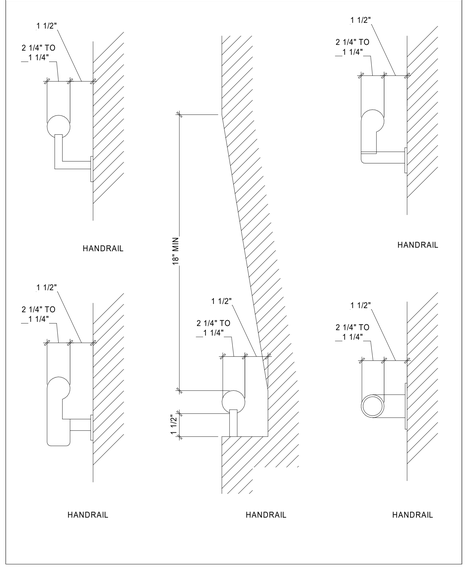
NOTE: X SHALL BE LESS THAN OR EQUAL TO 25 INCHES. Z SHALL BE 25 INCHES MAXIMUM OR EQUAL TO X. WHEN X IS LESS THAN 20 INCHES, THEN Y SHALL BE 48 INCHES MAXIMUM. WHEN X IS 20 TO 25 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM.



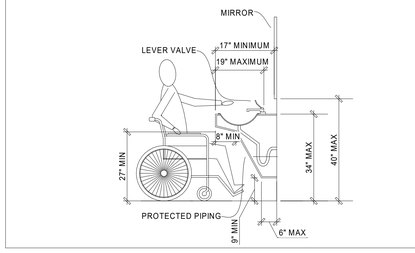
SIDE REACH



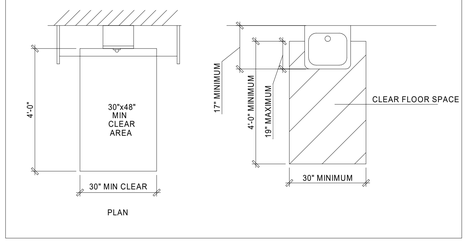
SIZE AND SPACING OF HANDRAILS AND GRAB BARS



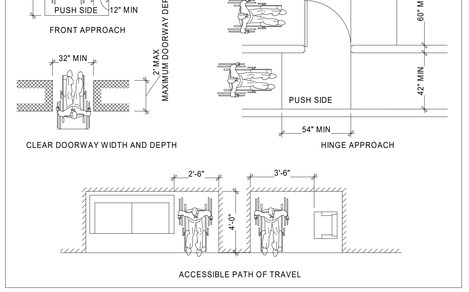
LAVATORY CLEARANCES



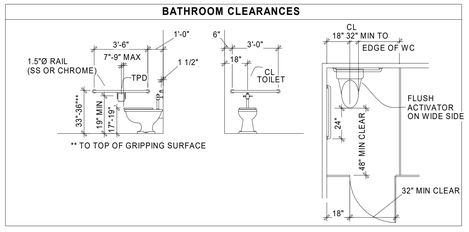
CLEAR FLOOR SPACE



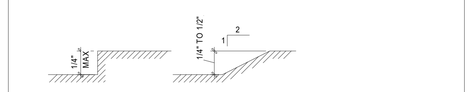
MANEUVERING CLEARANCES AT DOORWAY/DOORS



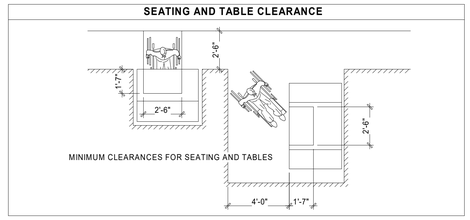
BATHROOM CLEARANCES



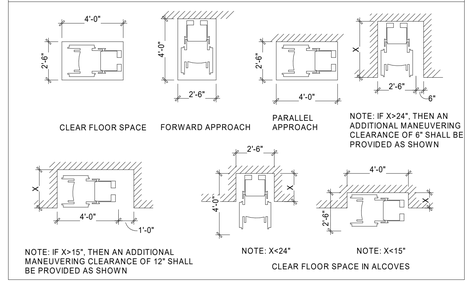
LEVEL CHANGES



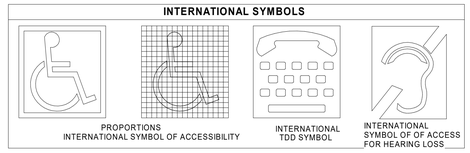
SEATING AND TABLE CLEARANCE



MANEUVERING ACCESS



INTERNATIONAL SYMBOLS



BRIAN D. LAUG, AIA NCARB
ARCHITECT

16925 OLD SAWMILL ROAD
WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

ACCESSIBILITY DETAILS

ISSUE/REVISIONS:

No.	DATE	DESCRIPTION
1	6/6/2025	BID & PERMIT SET

SEAL:

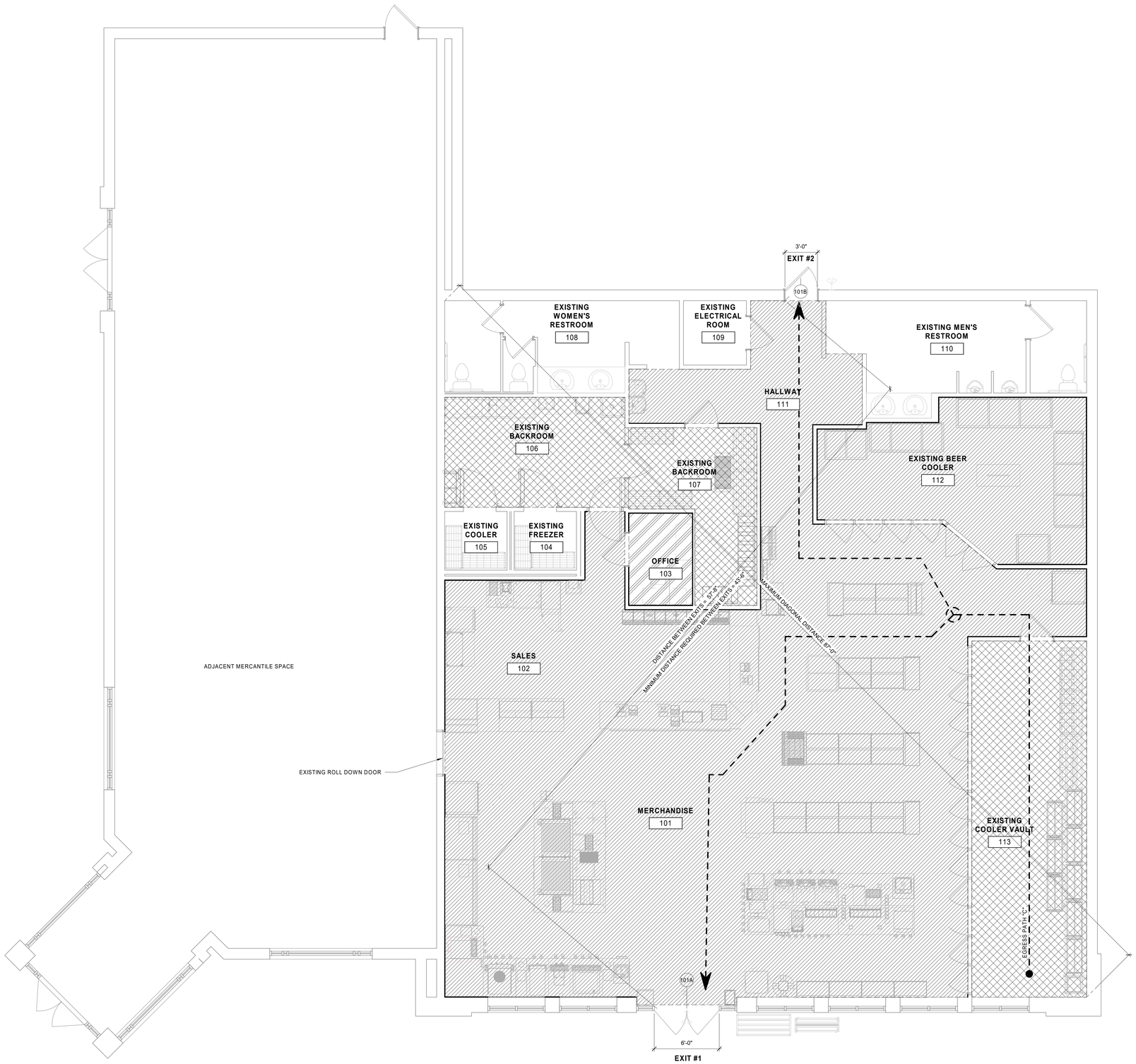
BRIAN D. LAUG REGISTERED ARCHITECT 13568 NORTH CAROLINA WOODBINE, MD 6/11/2025

DRAWN BY: BMB	CHECKED BY: JK
SCALE: 1" = 1'-0"	PROJECT No.: 24088
DATE: 6/6/2025	FILE NAME:

SHEET NO.

A1.1

FOR REFERENCE ONLY - FOLLOW ALL LOCAL JURISDICTION CODES



1 EGRESS PLAN
1/4" = 1'-0"

GENERAL NOTES

A. FIRE EXTINGUISHER: #10 CLASS ABC WITH UL RATING 4A-60BC. SURFACE MOUNTED ON WALL WITH MANUFACTURERS ALL-STEEL WALL BRACKET. REF. TO SPECIFICATIONS FOR TYPE. TO INCLUDE INSPECTION TAG AS REQUIRED BY LOCAL CODES. REFERENCE, SHEET A2.1 FOR ADDITIONAL INFORMATION.

OCCUPANCY SIGNAGE NOTES

SIGNS STATING THE MAXIMUM OCCUPANT CONTENT SHALL BE CONSPICUOUSLY POSTED IN EACH AREA OF ASSEMBLY, ASSEMBLY ROOM, OR ROOM USED FOR SIMILAR PURPOSES.

LEGEND

PATH OF EGRESS TRAVEL
WIDTH: 36" MINIMUM

EGRESS CALCS

EXITING REQUIREMENTS:

7.5.1.3.3 OF NFPA 101 LIFE SAFETY CODE

MERCANTILE AREA: 2 EXITS
DIAGONAL OF MERCANTILE AREA = 87'-0" MIN DISTANCE

DISTANCE BETWEEN EXITS = 57' - 8"

1/2 DISTANCE BETWEEN EXITS FOR NON-SPRINKLERED AREAS

MINIMUM DISTANCE REQUIRED BETWEEN EXITS = 43'- 6"

*REFER TO SHEET A2.6 FOR ILLUMINATED EXIT SIGN LOCATIONS.

EGRESS TRAVEL DISTANCE:

MAXIMUM ALLOWABLE TRAVEL DISTANCE:

200'-0" MAXIMUM [NON-SPRINKLERED OCCUPANCY GROUP (M) PER TABLE 1017.2 OF IBC 2021]

MAXIMUM TRAVEL DISTANCE PROVIDED: 92'-7"

MAXIMUM COMMON PATH OF EGRESS:

75'-0" MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE [NON-SPRINKLERED OCCUPANCY GROUP (M) PER TABLE 1006.2.1 OF IBC 2021]

MAXIMUM COMMON PATH OF TRAVEL PROVIDED: 40'-2"

EGRESS WIDTH:

TOTAL OCCUPANTS = 43 PERSONS

EGRESS WIDTH REQUIRED PER CODE = 0.2" X TOTAL OCCUPANTS

WIDTH REQUIRED = 8.6"

EGRESS WIDTH PROVIDED = 108"

OCCUPANCY LOAD

ROOM NO.	USE	SF/OCCUPANT	LEGEND	SIZE SQFT	OCCUPANTS
BUSINESS (B)					
103	OFFICE	100 SF		50 SF	1
MERCANTILE (M)					
112	EXISTING BEER COOLER	60 SF		296 SF	5
102	SALES	60 SF		195 SF	3
101	MERCHANDISE	60 SF		1865 SF	31
MERCANTILE STORAGE (M)					
113	EXISTING COOLER VAULT	300 SF		348 SF	1
106	EXISTING BACKROOM	300 SF		169 SF	1
107	EXISTING BACKROOM	300 SF		140 SF	1
TOTAL					43

EGRESS TRAVEL DISTANCE

PATH ID	EXIT #	TRAVEL DISTANCE	COMMON PATH OF TRAVEL DISTANCE
PATH A	1	80' - 5"	40' - 2"
PATH A	2	92' - 7"	40' - 2"

EGRESS WIDTH PROVIDED

DOOR NUMBER	EXIT	WIDTH
101A	EXIT 1	72"
101B	EXIT 2	36"
		108"

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PROJECT:

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DWG. TITLE:

EGRESS PLAN

ISSUE/REVISIONS:

No.	DATE	DESCRIPTION
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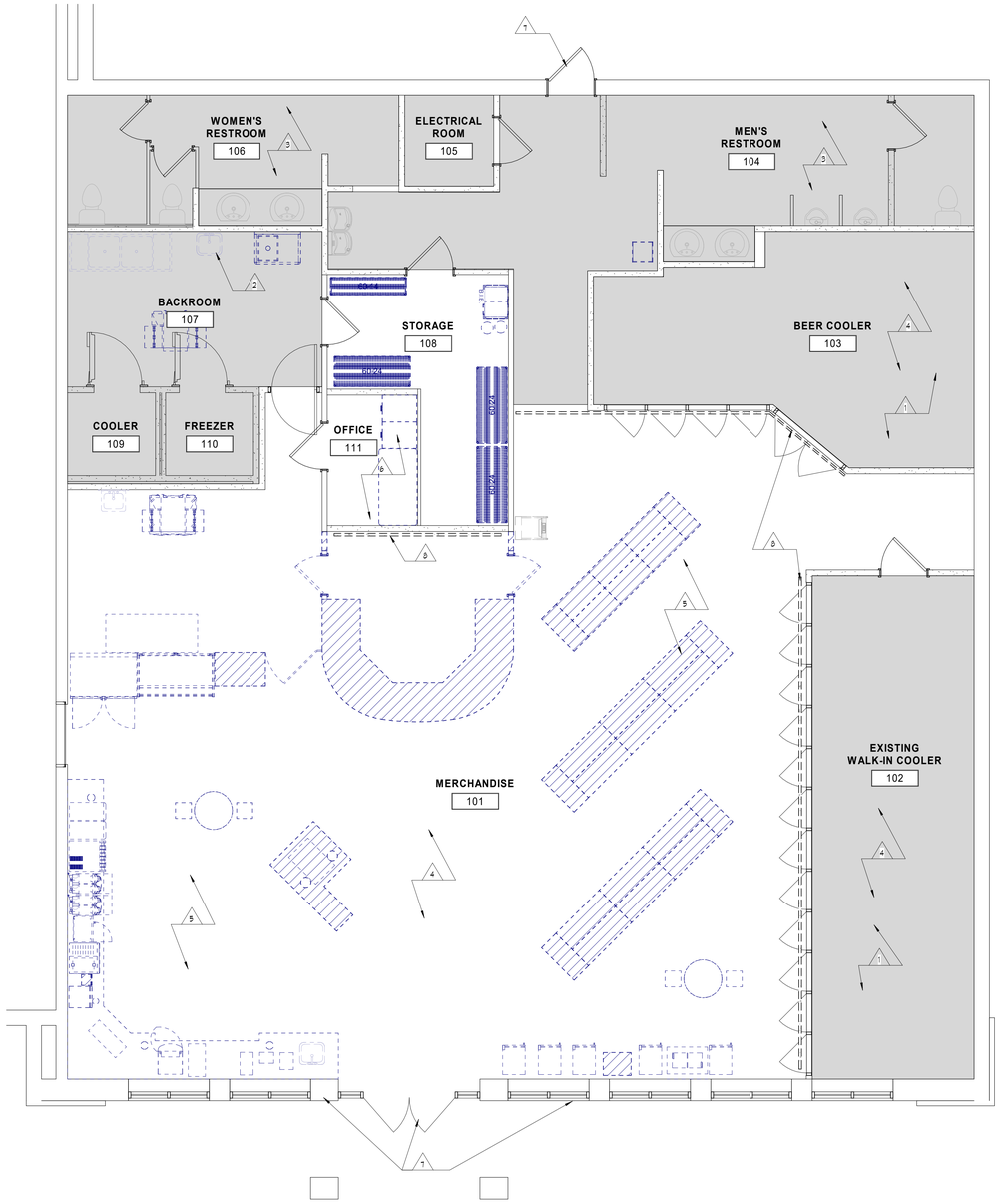
SEAL:

BRIAN D. LAUG REGISTERED ARCHITECT 13568 NORTH CAROLINA WOODBINE, MD
6/11/2025

DRAWN BY:	CHECKED BY:
BMB	JK
SCALE:	PROJECT No.
1/4" = 1'-0"	24088
DATE:	FILE NAME:
6/6/2025	

SHEET NO:

A1.2



1 DEMOLITION FLOOR PLAN
1/4" = 1'-0"

LEGEND

EXISTING DOOR AND ASSOCIATED HARDWARE TO REMAIN

EXISTING DOOR, FRAME, AND ASSOCIATED HARDWARE TO BE REMOVED

EXISTING PARTITION TO REMAIN

DENOTES ITEM TO BE DEMOLISHED

GENERAL NOTES

1. FOR ALL SLAB PATCHING, PROVIDE SELF LEVELING CONCRETE FILL AROUND REMOVED ITEMS FOR SMOOTH AND LEVEL FLOOR. PREP AREA FOR NEW FINISHES.
2. ANY DIMENSIONS SHOWN ON PLAN ARE APPROXIMATE AND ARE FOR REFERNCE ONLY. CONTRACTOR TO V.I.F. EXACT DIMENSIONS.
3. CONTRACTOR SHALL PATCH, REPLACE AND/OR REPAIR EXISTING DAMAGED WALLS, FLOORS, CEILING, ETC. IN ADDITION TO ANY WALLS, FLOORS, CEILING, ETC DAMAGED DUE TO CONSTRUCTION AND/OR DEMOLITION TO MATCH ADJACENT EXISTING WALLS, FLOORS, CEILING, ETC.
4. PROTECT EXISTING CONSTRUCTION TO REMAIN
5. PATCH AND REPAIR EXISTING WALLS TO REMAIN AS REQUIRED FOR NEW FINISHES.
6. REMOVE SUSPENDED CEILING SYSTEM AND ACOUSITCAL CEILING TILES COMPLETELY FROM AREA OF WORK, UNO.
7. REMOVE DESIGNATED FINISHES, CASEWORK, FIXTURES, TOILET ROOM ACCESSORIES AND OR EQUIPMENT FROM AREA OF WORK, U.N.O.
8. SAW CUT SLAB AS REQUIRED FOR INSTALLATION OF ELECTRICAL AND PLUMBING UTILITIES. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.
9. COORDINATE ARCHITECTURAL DEMOLITION WITH DEMOLITION WORK SHOWN ON MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.

DEMOLITION NOTES

1	EXISTING COOLER TO REMAIN.
2	EXISTING MOP AREA TO REMAIN.
3	EXISTING TOILET ROOM FIXTURES, ACCESSORIES, FLOOR AND WALL FINISHES TO REMAIN.
4	EXISTING FLOOR FINISHES TO REMAIN AS INDICATED. REMOVE EXISTING FLOOR FINISHES AS REQUIRED FOR NEW LAYOUT. REFER TO FINISHES PLAN.
5	DEMOLISH AND REMOVE EXISTING MILLWORK,MERCHANDISE AND MISC. DISPLAY FIXTURES. COORDINATE REUSE OF ANY ITEMS W/ TENANT.
6	EXISTING OFFICE AREA WALLS TO REMAIN. REMOVE EXISTING OFFICE FURNITURE PER NEW LAYOUT.
7	EXISTING EXTERIOR FNISHES, DOORS AND STOREFRONT TO REMAIN.
8	DEMOLISH AND REMOVE EXISTING MILLWORK panels and signage, typ.

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DRG. TITLE:

DEMOLITION PLAN

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6/6/2025	

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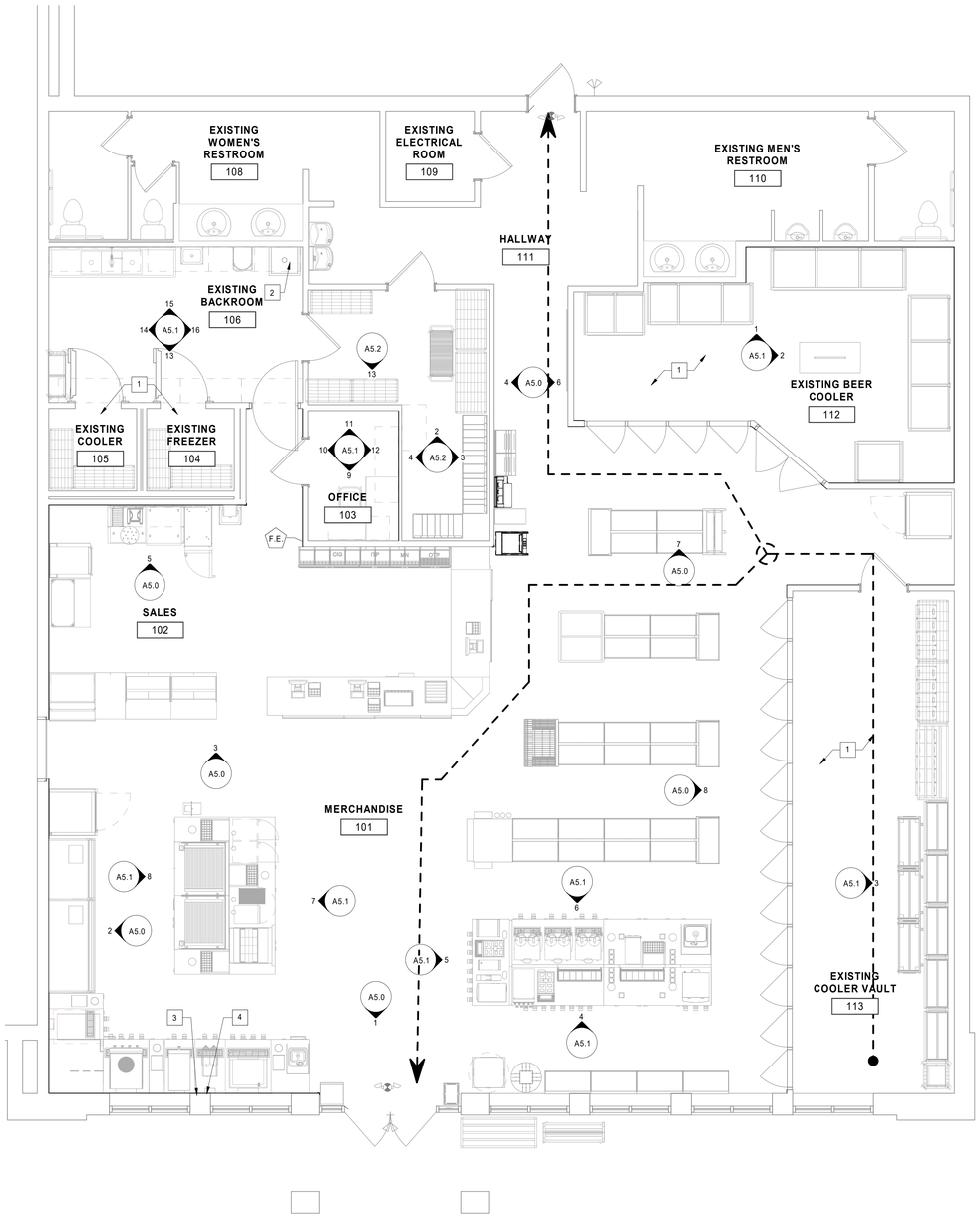
D1.0



1 REFERENCE PLAN
1/4" = 1'-0"

GENERAL NOTES

A. CONTRACTORS SHALL NOT SCALE THESE DRAWINGS. IN THE EVENT OF OMISSION OF NECESSARY DIMENSIONS THE CONTRACTORS SHALL NOTIFY THE CONSTRUCTION PROJECT MANAGER.

B. VERIFY SIZE, LOCATION, AND CHARACTERISTICS, OF ALL WORK AND EQUIPMENT TO BE FURNISHED BY OWNER OR OTHERS, WITH THE MANUFACTURER OR SUPPLIER BEFORE ANY CONSTRUCTION PERTAINING TO SAME IS BEGUN.

C. CONTRACTOR TO PROVIDE AND INSTALL WOOD BLOCKING FOR WALL HUNG FIXTURES AND TOILET ACCESSORIES

D. ALL DOORS SHALL BE KEYLESS IN DIRECTION OF EGRESS.

E. FIRE EXTINGUISHER. # 10 CLASS ABC WITH UL RATING 4A-60BC. SURFACE MOUNTED ON WALL MAX. 5'-0" A.F.F. WITH MANUFACTURERS ALL STEEL WALL BRACKET. JL INDUSTRIES INC. (COSMIC 10E) OR APPROVED EQUAL WITH INSPECTION TAG AS REQUIRED BY LOCAL CODES.

F. CONTRACTOR TO INSTALL COAT HOOKS FOR EMPLOYEES. REFERENCE SHEET EQ-1 ITEM 220. INSTALL 2 IN OFFICE AND 3 IN BACKROOM. LOCATION TO BE DETERMINED BY CONSTRUCTION PROJECT MANAGER. SEE DOOR HARDWARE SCHEDULES.

G. G.C. TO FURNISH AND INSTALL RIS BACKBOARD AT ISP DESK. REFERENCE SHEET A5.4 FOR ADDITIONAL INFORMATION.

H. REFER TO SHEET A2.2 FOR INTERIOR PARTITION TYPES AND DETAILS.

KEYNOTES

1 EXISTING PRE-FABRICATED COOLER WALLS, CEILING, FLOOR, DOORS AND RACKS. MAINTAIN 2" AIR SPACE BETWEEN COOLER AND ADJACENT WALLS PER MANUFACTURES SPECIFICATIONS. CONTRACTOR TO FIELD VERIFY DIMENSIONS WITH PROJECT MANAGER.

2 MOP SINK; REFERENCE PLUMBING.

3 PROVIDE SPACE IN WALL FOR EQUIPMENT REFRIGERANT LINES TO RECESSED WALL CHASE, REF. INTERIOR ELEVATONS FOR LOCATIONS.

4 PROVIDE SPACE IN WALL FOR SYRUP LINE BUNDLES TO (2) RECESSED STAINLESS STEEL WALL CHASES FOR HOUSING CO2, SWEETENER AND SYRUP LINES FOR POST MIX, FUB, TEA AND SLURPEE MACHINES. REF. A5.1 AND M2.0 FOR ADDITIONAL INFORMATION.

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CONSULTANT:

PROJECT:

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1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

REFERENCE PLAN

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1/4" = 1'-0"	24088
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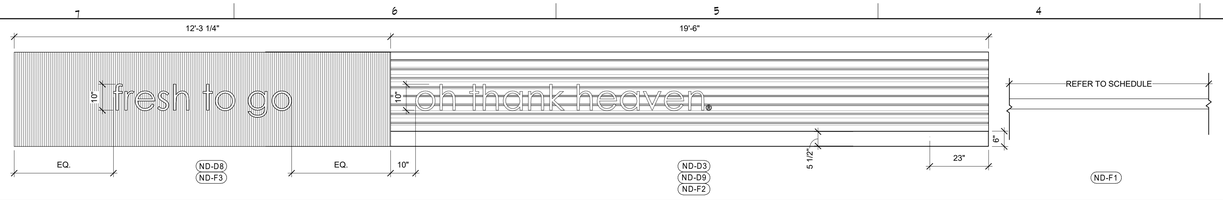
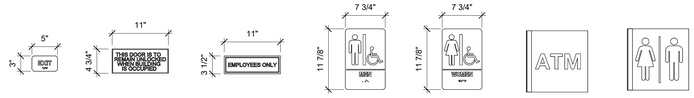
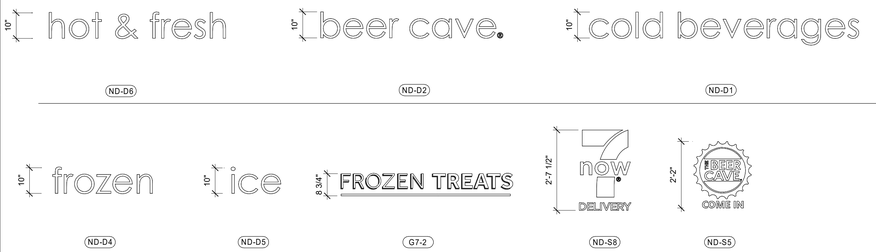
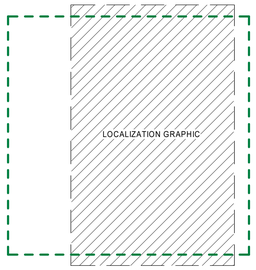
A2.1









DECOR SCHEDULE

CODE	QTY	NAME	SIZE	DESCRIPTION	FURNISH BY	INSTALL BY
G7-2	1	Beer Cooler Case	58.25" x 8.5"	Set of 2 Black Vinyl Decal	DECOR VENDOR	SEE NOTE 'D'
ND-D1	1	cold beverage - Dimensional Letter Set & Template	96"w x 10"h - Overall Size	Stock: 12MM Black PVC	DECOR VENDOR	SEE NOTE 'D'
ND-D2	1	beer cave - Dimensional Letter Set & Template	66"w x 10"h - Overall Size	Stock: 12MM Black PVC	DECOR VENDOR	SEE NOTE 'D'
ND-D4	1	frozen - Dimensional Letter Set & Template	38"w x 10"h - Overall Size	Stock: 12MM Black PVC	DECOR VENDOR	SEE NOTE 'D'
ND-D5	1	ice - Dimensional Letter Set & Template	18.5"w x 10"h - Overall Size	Stock: 12MM Black PVC	DECOR VENDOR	SEE NOTE 'D'
ND-D6	1	hot & fresh - Dimensional Letter Set & Template	67"w x 10"h - Overall Size	12mm White PVC	DECOR VENDOR	SEE NOTE 'D'
ND-D8	1	fresh to go - Dimensional Letter Set & Template	67"w x 10"h - Overall Size	12mm White PVC	DECOR VENDOR	SEE NOTE 'D'
ND-D9	1	oh thank heaven - Dimensional Letter Set	109"w x 10"h - Overall Size	12mm White PVC	DECOR VENDOR	SEE NOTE 'D'
ND-D14	1	Restroom Blade Sign	12" x 12"	6mm Black PVC fastened to brushed aluminum angle bracket	DECOR VENDOR	SEE NOTE 'D'
ND-L1	1	Localization Graphic	Size TBD	Customized Graphic Designed By Decor Vendor Working With SEI. Final Graphic TBD, Final Artwork To Be Approved By SEI	DECOR VENDOR	SEE NOTE 'D'
ND-S1	2	Exit Tactile Sign	3"w x 5"h		DECOR VENDOR	SEE NOTE 'D'
ND-S2	2	Egress Sign	4-3/4"h x 11"w		DECOR VENDOR	SEE NOTE 'D'
ND-S3	8	Employees Only Sign	3-1/2"h x 11"w		<varies>	<varies>
ND-S4-M	2	Men - ADA Restroom Sign	9" x 6"		<varies>	<varies>
ND-S4-W	2	Women - ADA Restroom Sign	9" x 6"		<varies>	<varies>
ND-S5	2	Beer Cave - Door Vinyl	22" x 26.093"	No print, plotter cut, weed and premask, Avery etchmark, vinyl; Mounts 1st surface to beer cooler door	DECOR VENDOR	SEE NOTE 'D'
ND-S8	1	7 Now Delivery - Dimensional Letter Set & Template	17.75" x 29"	Stock: 12MM Black PVC	DECOR VENDOR	SEE NOTE 'D'
ND-S9	1	ATM Blade Sign		6mm Black PVC fastened to brushed aluminum angle bracket	DECOR VENDOR	SEE NOTE 'D'

GENERAL NOTES

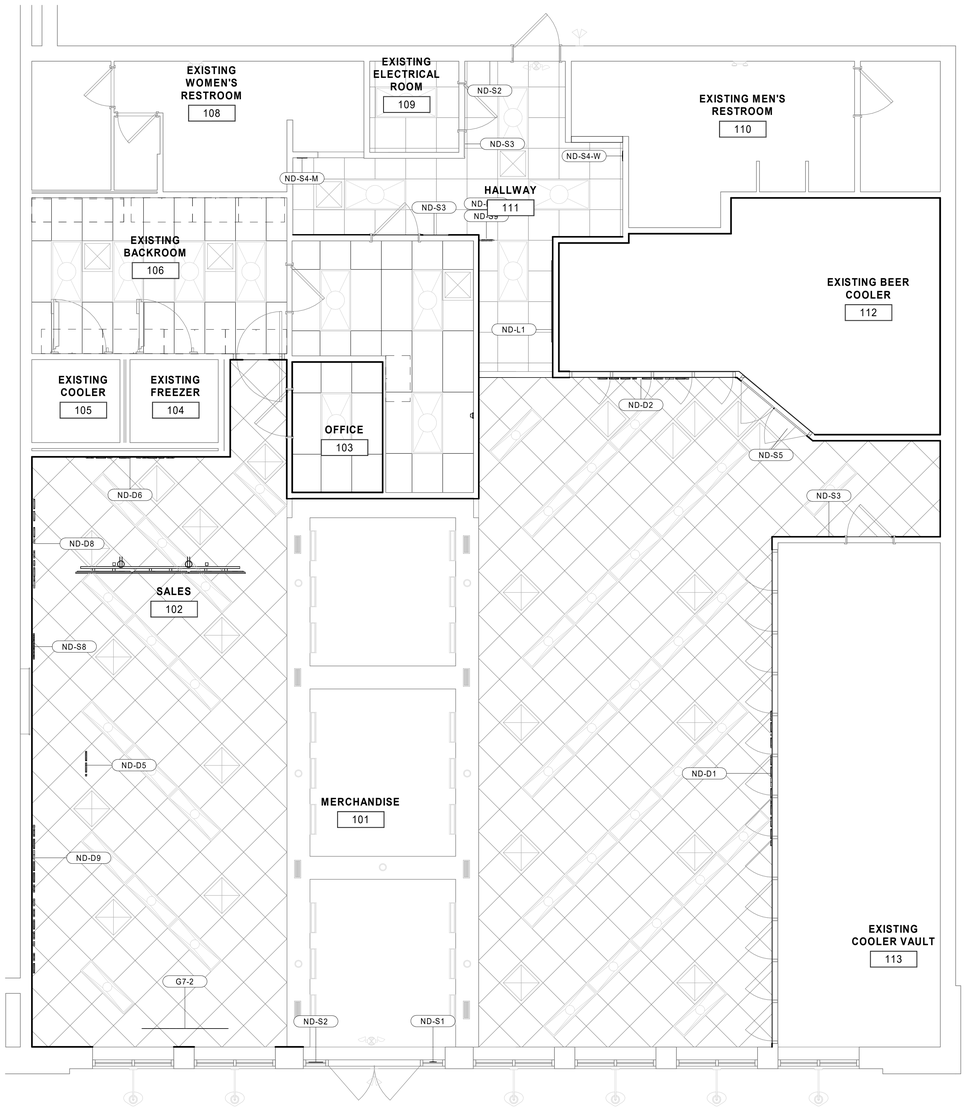
A. REFERENCE INTERIOR ELEVATIONS FOR MOUNTING POSITIONS AND HEIGHTS ABOVE FINISH FLOOR.

B. GC TO PROVIDE BLOCKING AS REQUIRED FOR PROPER DECOR ATTACHMENT.

C. SIGNS SHOULD BE MANUFACTURED TO BE IN COMPLIANCE WITH THE LOCAL MUNICIPALITY

D. GC TO COORDINATE ALL SIGNAGE INSTALLATIONS WITH THE APPROVED DECOR PACKAGE. ALL SIGNAGE SHOULD HAVE BLOCKING INSTALLED. FLAG ANY DISCREPANCIES TO THE CM.

1 DECOR LEGEND
1/2" = 1'-0"



2 DECOR PLAN
1/4" = 1'-0"

BRIAN D. LAUG, AIA NCARB
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DECOR PLAN

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6/11/2025

DRAWN BY:	CHECKED BY:
BMB	JK
SCALE:	PROJECT No:
As indicated	24088
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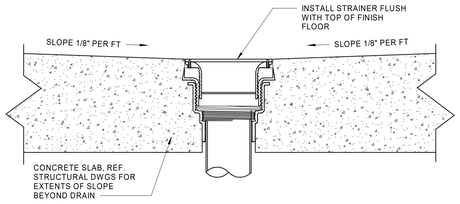
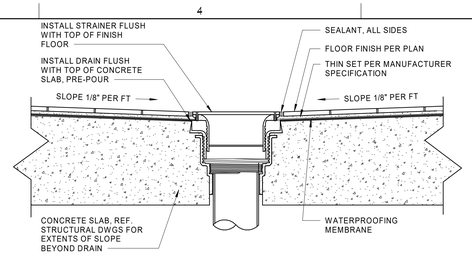
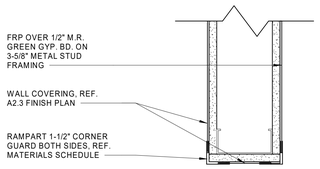
A2.2



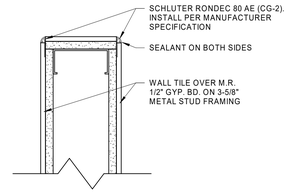
7 FLOOR DRAIN DETAIL FOR EXPOSED CONCRETE
3" = 1'-0"



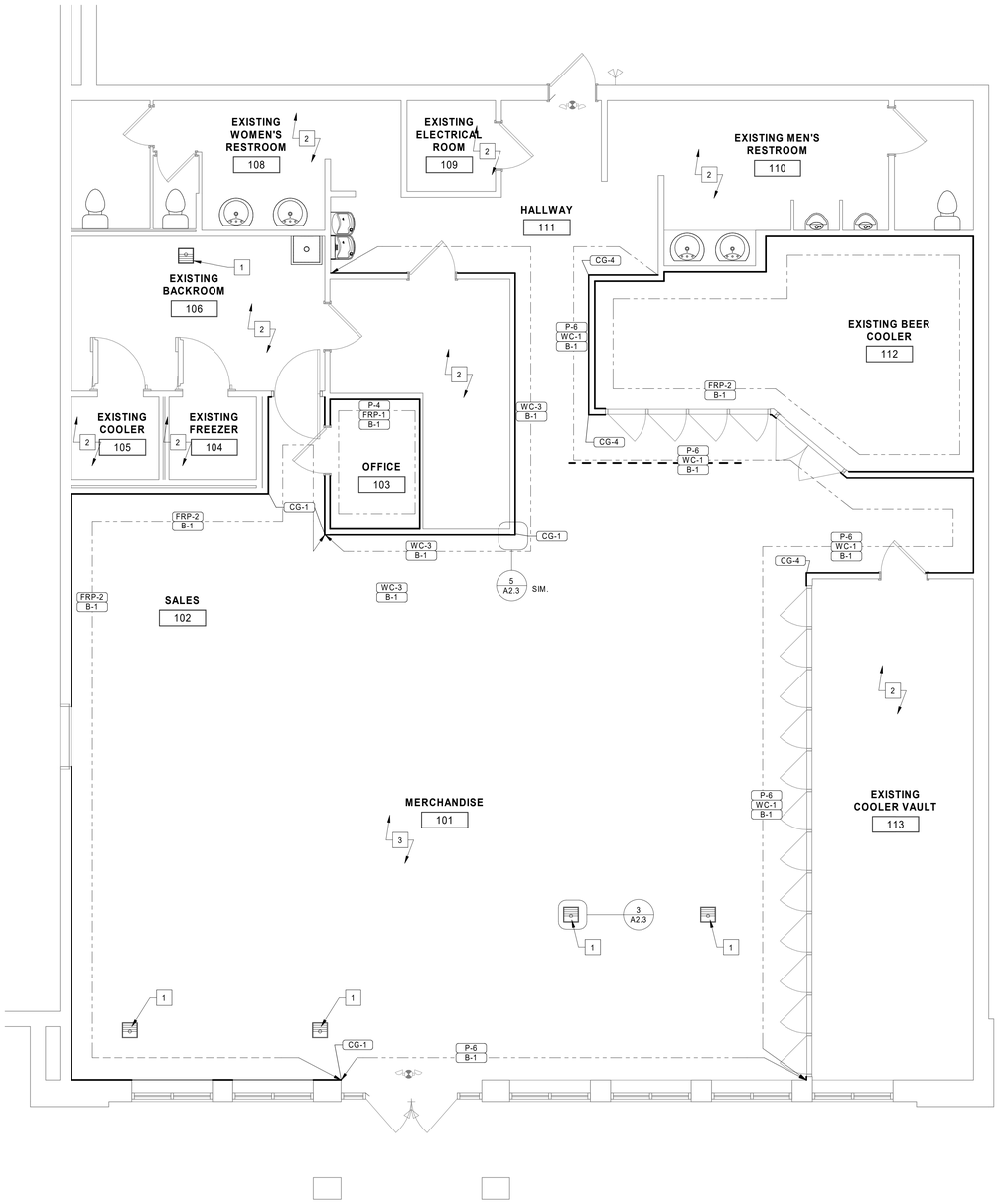
6 FLOOR DRAIN DETAIL FOR TILE FLOORING
3" = 1'-0"



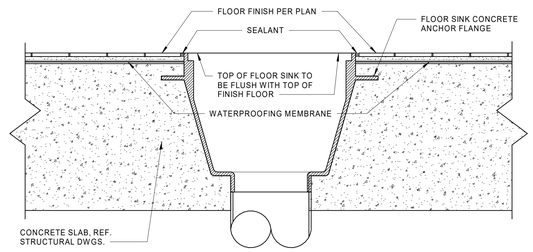
5 WALL FRP TRANSITION DETAIL
3" = 1'-0"



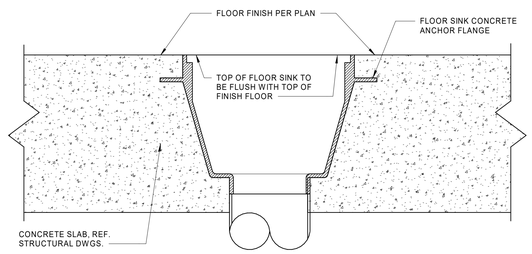
2 WALL TILE TRANSITION DETAIL
3" = 1'-0"



1 FINISH PLAN
1/4" = 1'-0"



3 FLOOR SINK DETAIL FOR TILE FLOORING
3" = 1'-0"



4 FLOOR SINK DETAIL FOR EXPOSED CONCRETE
3" = 1'-0"

GENERAL NOTES

A. ALL INTERIOR FINISHES TO BE CLASS 2 OR BETTER.

B. CONTRACTOR TO FLOAT AND SCRAPE FLOOR TO BE LEVEL AND PREPARE FOR NEW SCHEDULED FINISH, AS REQUIRED.

C. CONTRACTOR TO RESERVE SPECIFIED FLOORING AND BASE UPON BEING AWARDED THE BID TO ENSURE AVAILABILITY AND TIMELY INSTALLATION. SUBSTITUTIONS ARE NOT PERMITTED.

D. FLOORS IN WET AREAS TO SLOPE TO DRAINS 1/8" PER FOOT, TYP.

E. PROVIDE A BEAD OF CAULK AT INTERIOR CONDITIONS PER OWNER DIRECTION AND PROJECT NEEDS. CAULK IS TO MATCH COLOR OF ADJACENT MATERIAL.

F. REFERENCE INTERIOR ELEVATIONS FOR WALL FINISHES.

G. REFERENCE SHEET A6.1 FOR BASE TYPES.

H. PROVIDE FULL HEIGHT CORNER GUARDS AND "T" MOLDING AS REQUIRED AT ALL OUTSIDE CORNERS AND PANEL JOINTS. CORNER GUARDS SHOULD BE FOR MATERIAL FINISH SPECIFIED IN FINISH AND MATERIAL SCHEDULES ON SHEET A6.1.

I. PROTECT SURROUNDING AREAS AND SURFACES FROM DUST, CONTACT WITH OVERSPRAY FROM DENSIFIER, PROTECTIVE SURFACE TREATMENT, & JOINT FILLER. CLEAN SURFACES FROM DUST, DEBRIS, OIL, GREASE, CURING AGENTS, AND OTHER SURFACE CONTAMINANTS THAT MAY ADVERSELY AFFECT INSTALLATION OF POLISHED CONCRETE.

J. REFERENCE SPECIFICATION SECTIONS 03 3000 CAST-IN-PLACE CONCRETE AND 03 3511 CONCRETE FLOOR FINISHES, PROVIDED BY 7-ELEVEN, FOR ALL NEW INTERIOR CONCRETE FLOORS.

KEYNOTES

1 FLOOR SINK / DRAIN PER PLAN, REF. DETAILS ON THIS SHEET & PLUMBING DRAWINGS FOR LOCATION.

2 EXISTING FLOOR, WALL AND CEILING FINISHES TO REMAIN, U.N.O.

3 EXISTING FLOOR FINISHES TO REMAIN. PATCH AND REPAIR AS REQUIRED FOR NEW FLOOR SINKS.

FLOOR FINISH & HATCH LEGEND

MANUF	FREEZER FLOOR
T-1	PORCELAIN TILE (SALES FLOOR & RESTROOMS)
T-2	PORCELAIN TILE (BEER CAVE)
SC-2	SEALED CONCRETE (BACKROOM, COOLER, MANAGER'S OFFICE, UTILITY, COOLER VAULT & ELECTRICAL ROOM)

WALL FINISH LEGEND

XX-X	DENOTES WALL FINISH, REFER TO SHEET A6.1
XX-X	DENOTES CHAIR RAIL OR TRIM, REFER TO SHEET A6.1
XX-X	DENOTES WALL FINISH, REFER TO SHEET A6.1
X-X	DENOTES WALL BASE, REFER TO SHEET A6.1

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DRG. TITLE:

FINISH PLAN

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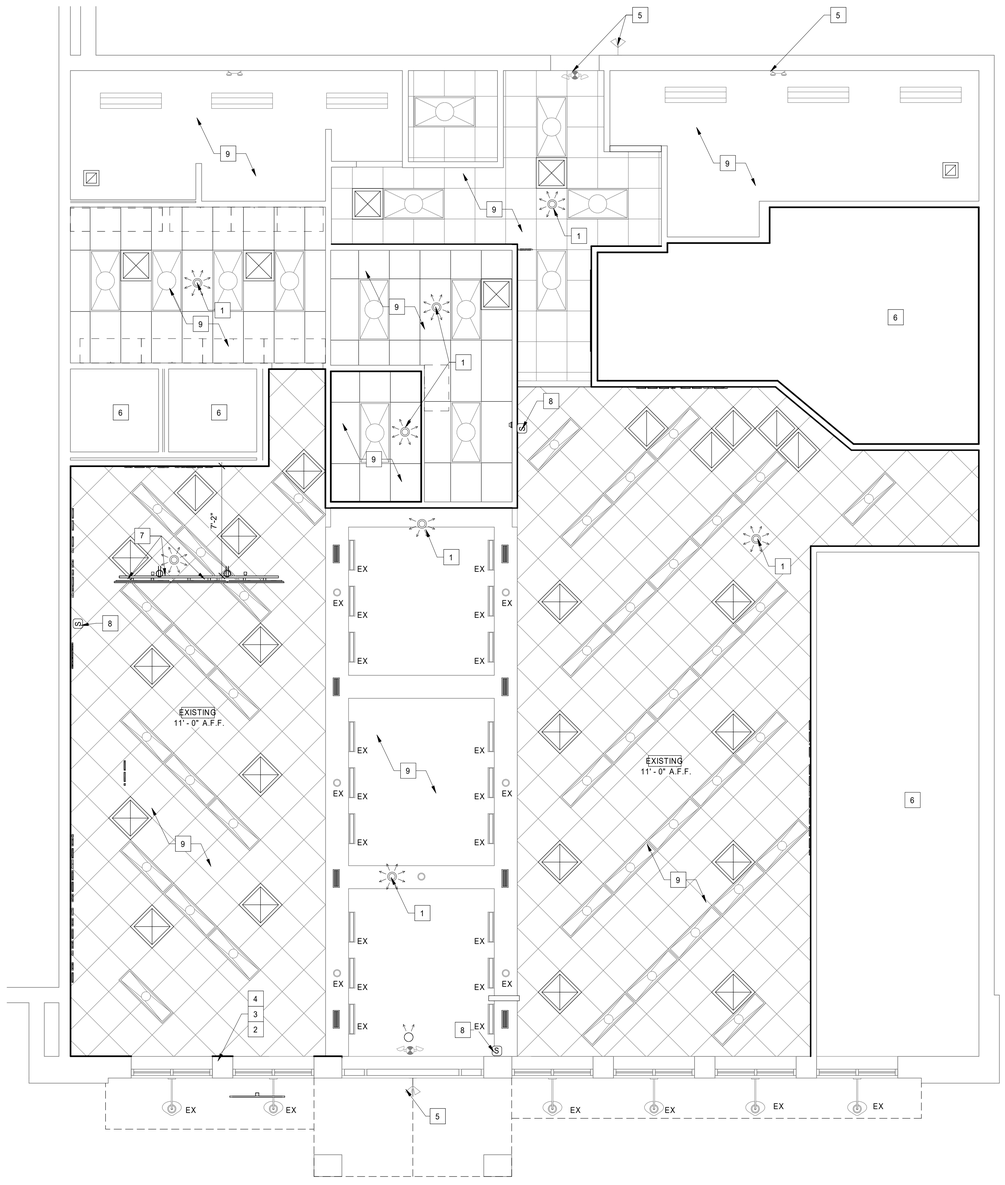
SHEET NO:

A2.3



1 REFLECTED CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES

A. ALL WALL PAINT ABOVE 12'-0" IN THE MERCHANDISE AREA SHALL BE "P-35" UNLESS NOTED OTHERWISE ON THE REFLECTED CEILING PLAN. (REFERENCE SHEET A6.1 FOR MATERIALS SCHEDULE).

B. SYRUP LINE INSTALLATION NOTE: WHERE REQUIRED BY CODE OR AS INDICATED ON PLAN CABLED BUNDLE SYRUP LINES SHALL BE INSTALLED IN PVC CONDUIT (METAL CONDUIT FOR FR LINES) W/ 45 DEGREE SWEEPS AT CORNER AND "TEE" CONNECTIONS, CONDUIT SHALL BE ATTACHED TO WALL AND UNDERSIDE OF ROOF CONSTRUCTION W/ PIPE STRAPS AS REQUIRED, REFERENCE MANUFACTURERS SPECIFICATIONS FOR MINIMUM ALLOWED BENDING RADIUS OF LINES.

C. VERIFY NUMBER OF SYRUP LINES TO NUMBER OF SYRUP AND POST MIX MACHINES.

D. PROVIDE ACCESS PANEL WHEN EQUIPMENT IS PRESENT ABOVE COOLER VAULT.

E. REFER TO A2.7 FOR LIGHTING DIMENSIONS AND SCHEDULE.

KEYNOTES

1 SECURITY CAMERA SURFACE MOUNTED TO UNDERSIDE OF CEILING.

2 SYRUP LINE BUNDLES, 974 SERIES (974R AT FIRE RATED WALLS), ATTACHED TO BOTTOM OF DECK WITH 3/4" WIDE 16 GAUGE GALVANIZED PIPE STRAPS AT 4' O.C.

3 (2) SYRUP AND CO2 LINE BUNDLES TO POSTMIX, AND SWEETENER LINE TO TEA MACHINE. INSTALL IN WALL CAVITY DOWN TO TOP OF RECESSED STAINLESS STEEL WALL CHASE. REF. A5.1 AND M2.0 FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHT.

4 (2) SYRUP AND CO2 LINE BUNDLES TO SLURPEE MACHINES AND FUB DISPENSER. INSTALL IN WALL CAVITY DOWN TO TOP OF RECESSED STAINLESS STEEL WALL CHASE. REF. A5.1 AND M2.0 FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHT

5 EMERGENCY LIGHT FIXTURE, REF. ELECTRICAL.

6 EXISTING PREMANUFACTURED INSULATED COOLER/FREEZER VAULT CEILING. BUILDING CEILING ABOVE IS UNFINISHED EXPOSED STRUCTURE.

7 DIGITAL MENU BOARDS SUSPENDED FROM STRUCTURE, REF EF-1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

8 WALL-MOUNTED SPEAKER, REF. ELECTRICAL DRAWINGS.

9 EXISTING CEILING GRID/TILE/DRYWALL TO REMAIN. REPLACE ANY TILES AS REQUIRED DUE TO NEW FOOD SERVICE EQUIPMENT W/ WASHABLE TILES TO MATCH EXISTING ADJACENT FINISH.

REFLECTED CEILING PLAN SYMBOLS

- FOUR WAY SUPPLY DIFFUSER
- TRANSFER GRILL RETURN AIR DIFFUSER
- CEILING EXHAUST
- SIDEWALL DIFFUSER REF. MECHANICAL
- SUSPENDED CEILING GRID
- PRE-MANUFACTURED CEILING BY COOLER MFR.
- PAINTED EXPOSED STRUCTURE
- GYP BOARD CEILING
- EMERGENCY RECESSED LIGHT FIXTURE REF. ELECTRICAL
- RECESSED LIGHT FIXTURE REF. ELECTRICAL
- EMERGENCY PENDANT LIGHT FIXTURE REF. ELECTRICAL
- PENDANT LIGHT FIXTURE REF. ELECTRICAL
- PENDANT LIGHT FIXTURE REF. ELECTRICAL
- DIRECTIONAL TRACK FIXTURE REF. ELECTRICAL
- SECURITY CAMERA
- EXIT SIGN
- LED LIGHT FIXTURE REF. ELECTRICAL
- LED LIGHT FIXTURE REF. ELECTRICAL
- DIGITAL MENU BOARD/ PROMO SCREEN
- SURFACE MOUNTED LIGHT FIXTURE REF. ELECTRICAL
- BEER CAVE EVAPORATOR
- EXTERIOR WALL PACK LIGHT FIXTURE REF. ELECTRICAL
- WALK IN COOLER EVAPORATOR
- MECHANICAL SENSORS REF. MECHANICAL
- SECURITY MONITOR REF. ELECTRICAL
- SPEAKER REF. ELECTRICAL

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REFLECTED CEILING PLAN

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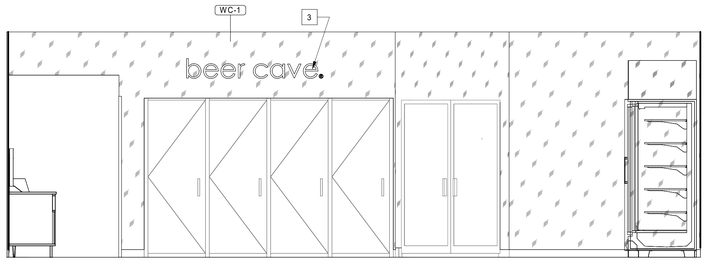
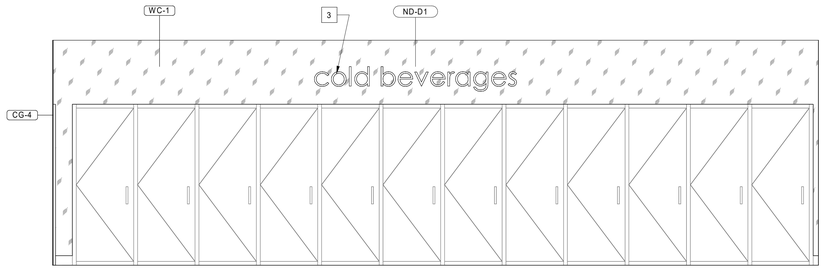
SHEET NO:

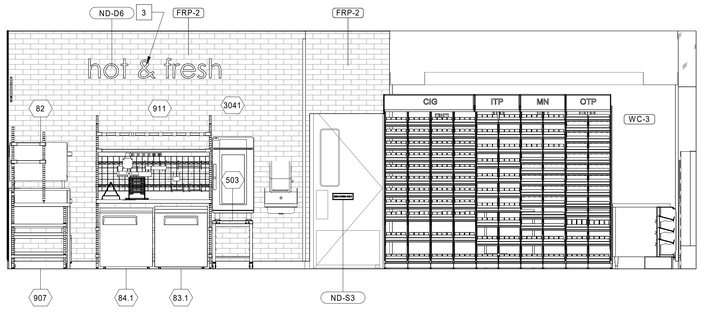
A2.4



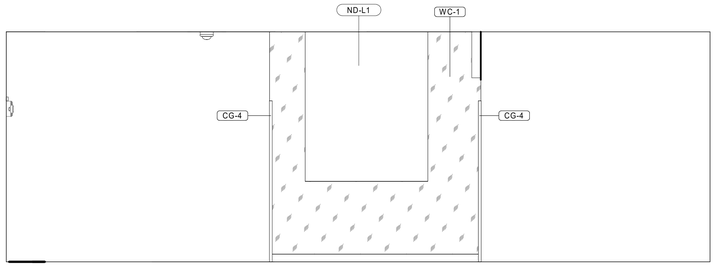
7 INTERIOR ELEVATION - EXISTING BEER COOLER
3/8" = 1'-0"



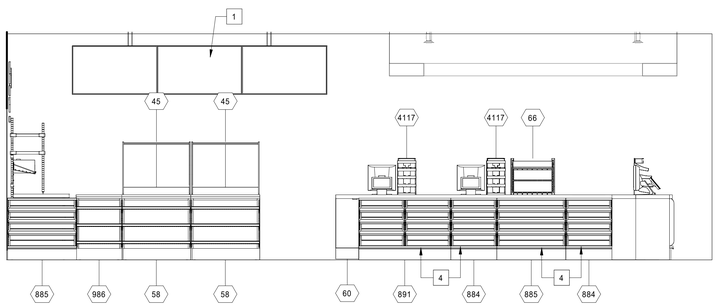
8 INTERIOR ELEVATION - EXISTING WALK-IN COOLER
3/8" = 1'-0"



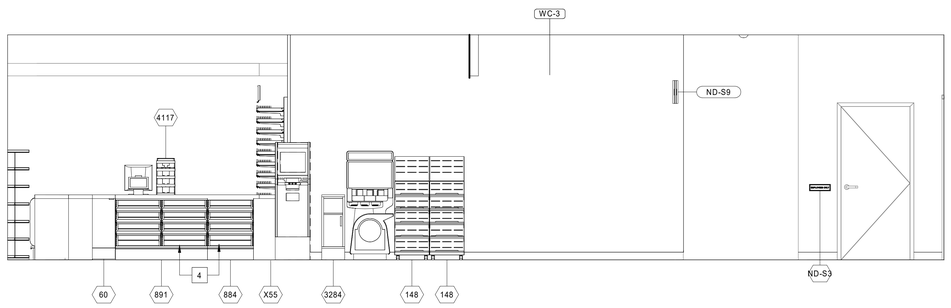
5 INTERIOR ELEVATION - BACKLINE
3/8" = 1'-0"



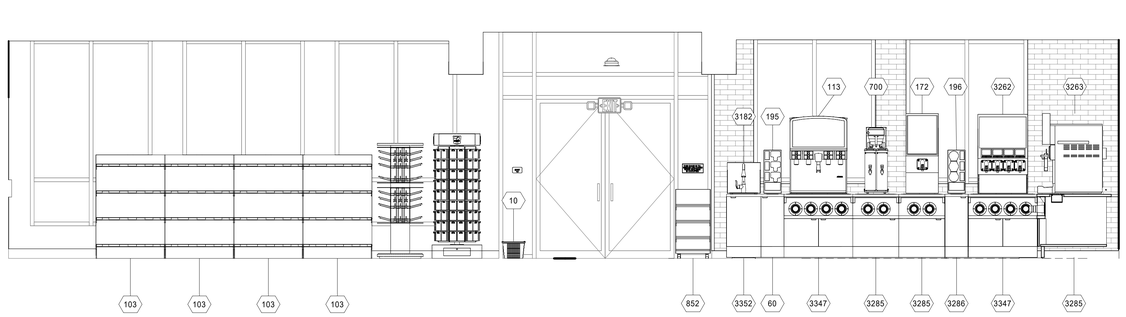
6 INTERIOR ELEVATION - EXISTING BEER COOLER
3/8" = 1'-0"



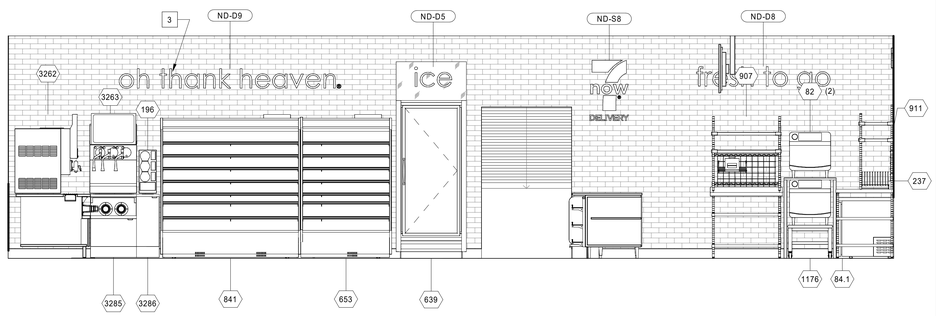
3 INTERIOR ELEVATION - SALES COUNTER
3/8" = 1'-0"



4 INTERIOR ELEVATION - SALES COUNTER
3/8" = 1'-0"



1 INTERIOR ELEVATION - STOREFRONT
3/8" = 1'-0"



2 INTERIOR ELEVATION - BEVERAGE
3/8" = 1'-0"

GENERAL NOTES

A. REFERENCE SHEET A6.1 FOR ALL FINISH SCHEDULE.

B. REFERENCE ELECTRICAL SHEETS FOR RECEPTACLES LOCATIONS AND HEIGHTS.

C. ALL COUNTER SHALL BE 34" AFF UNLESS NOTED OTHERWISE.

KEYNOTES

1 SUSPENDED DIGITAL MENU BOARDS, TYP. SEE ELECTRICAL FOR POWER REQUIREMENTS.

2 NOT USED

3 SURFACE-MOUNTED SIGNAGE. COORDINATE SIZE AND LOCATION WITH DECOR VENDOR, REF. SHEET A2.5.

4 CANDY RACKS, SEE ELECTRICAL FOR SHELF LIGHTING.

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DRG. TITLE:

INTERIOR ELEVATIONS

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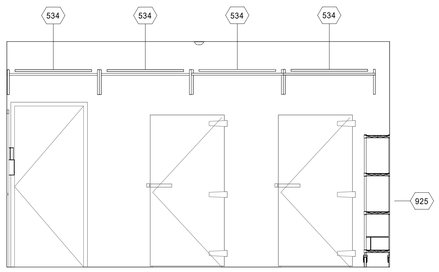
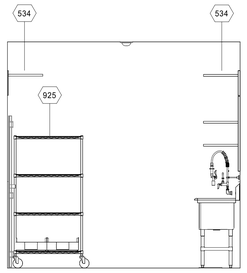
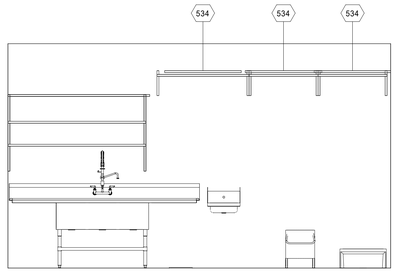
A5.0



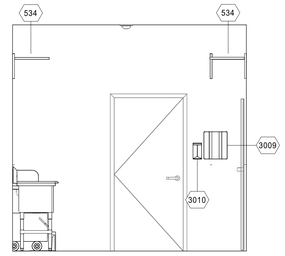
13 INTERIOR ELEVATION - BACKROOM
3/8" = 1'-0"



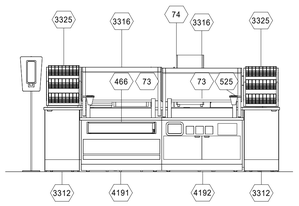
14 INTERIOR ELEVATION - BACKROOM
3/8" = 1'-0"



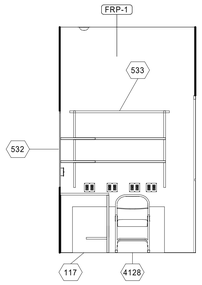
15 INTERIOR ELEVATION - BACKROOM
3/8" = 1'-0"



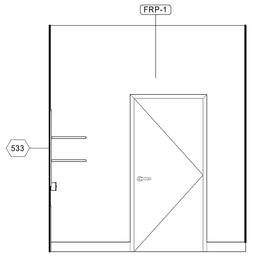
16 INTERIOR ELEVATION - BACKROOM
3/8" = 1'-0"



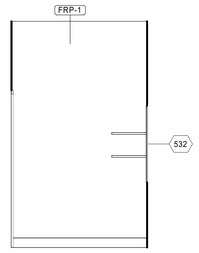
8 INTERIOR ELEVATION - ROLLER GRILL ISLAND
3/8" = 1'-0"



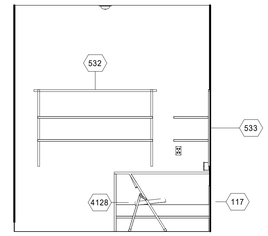
9 INTERIOR ELEVATION - MANGERS OFFICE
3/8" = 1'-0"



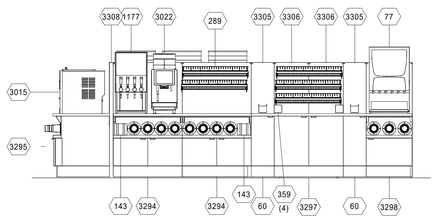
10 INTERIOR ELEVATION - MANGERS OFFICE
3/8" = 1'-0"



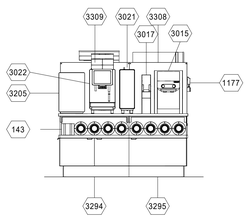
11 INTERIOR ELEVATION - MANGERS OFFICE
3/8" = 1'-0"



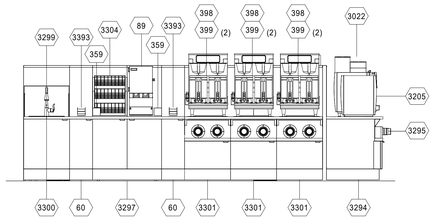
12 INTERIOR ELEVATION - MANGERS OFFICE
3/8" = 1'-0"



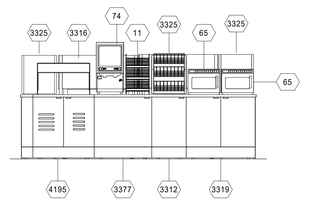
4 INTERIOR ELEVATION - BEVERAGE
3/8" = 1'-0"



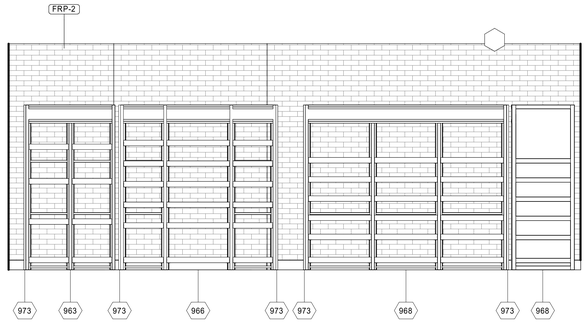
5 INTERIOR ELEVATION - COFFEE ISLAND
3/8" = 1'-0"



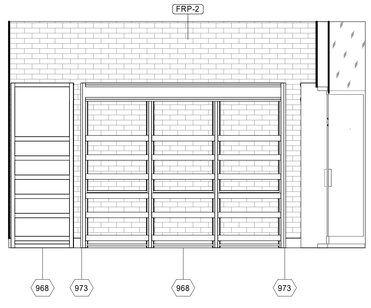
6 INTERIOR ELEVATION - COFFEE ISLAND
3/8" = 1'-0"



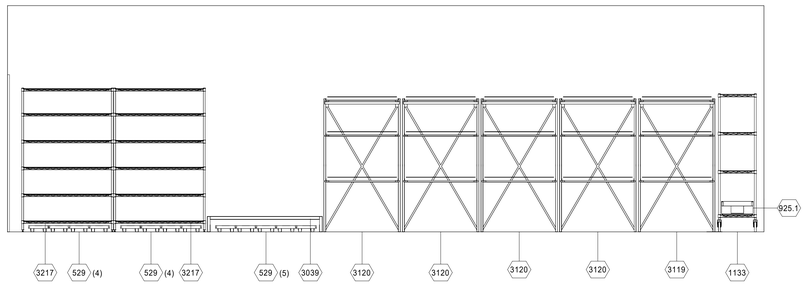
7 INTERIOR ELEVATION - ROLLER GRILL ISLAND
3/8" = 1'-0"



1 INTERIOR ELEVATION - EXISTING BEER COOLER
3/8" = 1'-0"



2 INTERIOR ELEVATION - EXISTING BEER COOLER
3/8" = 1'-0"



3 INTERIOR ELEVATION - EXISTING WALK-IN COOLER
3/8" = 1'-0"

GENERAL NOTES

A. REFERENCE SHEET A6.1 FOR ALL FINISH SCHEDULE.

B. REFERENCE ELECTRICAL SHEETS FOR RECEPTACLES LOCATIONS AND HEIGHTS.

C. ALL COUNTER SHALL BE 34" AFF UNLESS NOTED OTHERWISE.

KEYNOTES

1 SUSPENDED DIGITAL MENU BOARDS, TYP. SEE ELECTRICAL FOR POWER REQUIREMENTS.

2 NOT USED

3 SURFACE-MOUNTED SIGNAGE. COORDINATE SIZE AND LOCATION WITH DECOR VENDOR, REF. SHEET A2.5.

4 CANDY RACKS, SEE ELECTRICAL FOR SHELF LIGHTING.

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DRG. TITLE:

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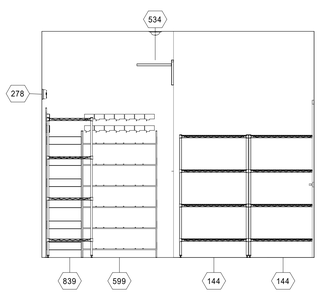
DRAWN BY:	CHECKED BY:
BMB	JK
SCALE:	PROJECT No:
As indicated	24088
DATE:	FILE NAME:
6/6/2025	

SHEET NO:

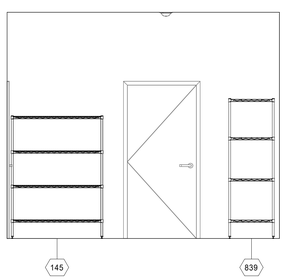
A5.1

GENERAL NOTES
1. REFERENCE SHEET A6.1 FOR ALL FINISH SCHEDULE.
2. REFERENCE ELECTRICAL SHEETS FOR RECEPTACLES LOCATIONS AND HEIGHTS.
3. ALL COUNTER SHALL BE 34" AFF UNLESS NOTED OTHERWISE.

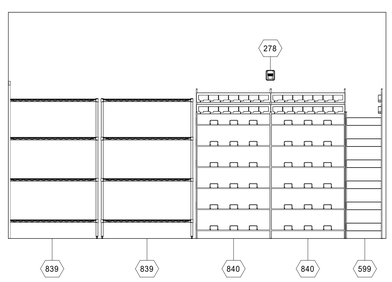
KEYNOTES
1 SUSPENDED DIGITAL MENU BOARDS, TYP. SEE ELECTRICAL FOR POWER REQUIREMENTS.
2 NOT USED
3 SURFACE-MOUNTED SIGNAGE. COORDINATE SIZE AND LOCATION WITH DECOR VENDOR, REF. SHEET A2.5.
4 CANDY RACKS, SEE ELECTRICAL FOR SHELF LIGHTING.



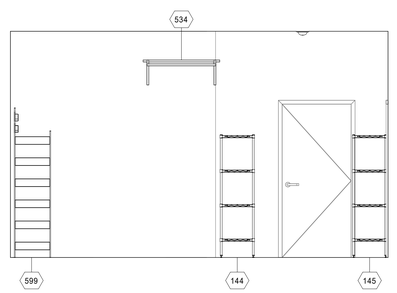
13 INTERIOR ELEVATION - BACKROOM
3/8" = 1'-0"



2 INTERIOR ELEVATION - BACKROOM
3/8" = 1'-0"



3 INTERIOR ELEVATION - BACKROOM
3/8" = 1'-0"



4 INTERIOR ELEVATION - BACKROOM
3/8" = 1'-0"

BRIAN D. LAUG, AIA NCARB
ARCHITECT

16925 OLD SAWMILL ROAD
WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

INTERIOR ELEVATIONS

ISSUE/REVISIONS:

No.	DATE	DESCRIPTION
1	6/6/2025	BID & PERMIT SET

SEAL:

BRIAN D. LAUG REGISTERED ARCHITECT 13568 NORTH CAROLINA WOODBINE, MD 6/11/2025

DRAWN BY:	CHECKED BY:
BMB	JK
SCALE:	PROJECT No.
As indicated	24088
DATE:	FILE NAME:
6/6/2025	

SHEET NO:

A5.2

PAINT SCHEDULE

CODE	APPLICATION	COLOR	MANUFACTURER	PAINT NUMBER	PAINT DESCRIPTION	REPAINT PRIMER	NEW CONSTRUCTION PRIMER	JURISDICTIONAL EXCEPTIONS	FURNISH BY	INSTALL BY	REMARKS
EXTERIOR PAINT											
P-1	EXTERIOR UTILITIES, EXTERIOR HM DOORS & FRAMES	VERSATILE GRAY	SHERWIN WILLIAMS	SW6072	SHER-CRYL HPA SEMI-GLOSS, B66W351	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B666W60X	GC	GC	USE B66-1300 SERIES OVER BARE METAL B66A50 OVER SLICK PREVIOUSLY PAINTED SURFACES
P-3	TRASH ENCLOSURE GATE, TRASH ENCLOSURE BOLLARDS & PIPING	TRICORN BLACK	SHERWIN WILLIAMS	SW6258	SHER-CRYL HPA SEMI-GLOSS, B66T354	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	USE B66-1300 SERIES OVER BARE METAL B66A50 OVER SLICK PREVIOUSLY PAINTED SURFACES
P-12	PARKING LOT TRAFFIC MARKING	WHITE	SHERWIN WILLIAMS	B97WD2434	PROPARK PREMIUM WATERBASED TRAFFIC PAINT				GC	GC	
P-13	PARKING LOT TRAFFIC MARKING	YELLOW	SHERWIN WILLIAMS	B97YD2467	PROPARK PREMIUM WATERBASED TRAFFIC PAINT				GC	GC	
P-14	PARKING LOT TRAFFIC MARKING	RED	SHERWIN WILLIAMS	B97RD2012	PROPARK PREMIUM WATERBASED TRAFFIC PAINT				GC	GC	
P-15	PARKING LOT TRAFFIC MARKING	BLUE	SHERWIN WILLIAMS	B97LD2022	PROPARK PREMIUM WATERBASED TRAFFIC PAINT				GC	GC	
P-16	PARKING LOT TRAFFIC MARKING	BLACK	SHERWIN WILLIAMS	B97BD2021	PROPARK PREMIUM WATERBASED TRAFFIC PAINT				GC	GC	
P-17	UNDERSIDE OF GAS CANOPY	EXTRA WHITE	SHERWIN WILLIAMS	SW7006	SHER-CRYL HPA SEMI-GLOSS, B66W351	DTM BONDING PRIMER, B66A50	PROCRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B666W60X	GC	GC	
P-18	CANOPY COLUMNS	TRICORN BLACK	SHERWIN WILLIAMS	SW6258	SHER-CRYL HPA SEMI-GLOSS, B66T354	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66W310	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B666W60X	GC	GC	USE B66W310 OVER BARE METAL B66A50 OVER SLICK PREVIOUSLY PAINTED SURFACES
P-19	BOLLARDS IN FUELING AREA	TRICORN BLACK	SHERWIN WILLIAMS	SW6258	SHER-CRYL HPA SEMI-GLOSS, B66T354	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66W310	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B666W60X	GC	GC	USE B66W310 OVER BARE METAL B66A50 OVER SLICK PREVIOUSLY PAINTED SURFACES
P-20	FUEL ISLAND CURBS	TRICORN BLACK	SHERWIN WILLIAMS	SW6258	SHER-CRYL HPA SEMI-GLOSS, B66T354	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66W310	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B666W60X	GC	GC	USE B66W310 OVER BARE METAL B66A50 OVER SLICK PREVIOUSLY PAINTED SURFACES
P-22	VENT PIPE	EXTRA WHITE	SHERWIN WILLIAMS	SW7006	SHER-CRYL HPA SEMI-GLOSS, B66W351	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-23	REGULAR GAS FILL LID	EXTRA WHITE	SHERWIN WILLIAMS	SW7006	SHER-CRYL HPA SEMI-GLOSS, B66W351	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	FIBERLITE LIDS SHOULD NOT BE PAINTED
P-24	REGULAR GAS MANHOLE CROSS	TRICORN BLACK	SHERWIN WILLIAMS	SW6258	SHER-CRYL HPA SEMI-GLOSS, B66-350 SERIES	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-25	MID GRADE GAS FILL LID	SAFETY BLUE	SHERWIN WILLIAMS	B71T454	SHER-CRYL HPA SEMI-GLOSS, B66-350 SERIES	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-26	MID GRADE GAS MANHOLE CROSS	EXTRA WHITE	SHERWIN WILLIAMS	SW7006	SHER-CRYL HPA SEMI-GLOSS, B66W351	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-27	PREMIUM GAS FILL LID	SAFETY RED	SHERWIN WILLIAMS	B71T454	SHER-CRYL HPA GLOSS, B66R300	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-28	PREMIUM GAS MANHOLE CROSS	EXTRA WHITE	SHERWIN WILLIAMS	SW7006	SHER-CRYL HPA SEMI-GLOSS, B66W351	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-29	DIESEL FILL LID	SAFETY YELLOW	SHERWIN WILLIAMS	B71W45X	SHER-CRYL HPA GLOSS, B66Y300	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-30	KEROSENE FILL LID	API OLIVE BROWN	SHERWIN WILLIAMS	B71T454	SHER-CRYL HPA SEMI-GLOSS	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-32	E-85 FILL LID	API OLIVE BROWN	SHERWIN WILLIAMS	B71T454	SHER-CRYL HPA SEMI-GLOSS	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-33	VAPOR RECOVERY MANHOLE LID	SAFETY ORANGE	SHERWIN WILLIAMS	B71T454	SHER-CRYL HPA SEMI-GLOSS	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-34	ALL OTHER MANHOLES	TRICORN BLACK	SHERWIN WILLIAMS	SW6258	SHER-CRYL HPA SEMI-GLOSS, B66-350 SERIES	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	
P-41	PARKING LOT TRAFFIC MARKING	GREEN	SHERWIN WILLIAMS	TM2226	HOTLINE FAST DRY LATEX				GC	GC	
INTERIOR PAINT											
P-4	BOHUTILITY GYP. BD WALLS, MANAGER'S OFFICE GYP BOARD CEILING	PEARLY WHITE	SHERWIN WILLIAMS	SW7009	SOLO SEMI-GLOSS ENAMEL, A76-SERIES	PROMAR 200 ZERO VOC WALL PRIMER, B28W2600	SELF PRIMING ON DRYWALL		GC	GC	TWO COATS ON BARE DRYWALL
P-5	RESTROOM DOORS & DOOR FRAMES	MEGA GREIGE	SHERWIN WILLIAMS	SW7031	PRO INDUSTRIAL PRE-CATALYZED EPOXY SEMI-GLOSS, K46W1150 SERIES	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	SAND, CLEAN, DRY, AND DULL ALKYD AND GLOSSY SURFACE
P-6	GYP BOARD WALLS	PORPOISE	SHERWIN WILLIAMS	SW7047	SOLO SEMI-GLOSS ENAMEL, A76-SERIES	PROMAR 200 ZERO VOC WALL PRIMER, B28W2600	SELF PRIMING ON DRYWALL		GC	GC	TWO COATS ON BARE DRYWALL
P-7	ROOF STRUCTURE/BRACING, METAL ROOF DECK, EXPOSED DUCTS	PORPOISE	SHERWIN WILLIAMS	SW7047	PRO INDUSTRIAL PRE-CATALYZED EPOXY SEMI-GLOSS, K46W1150 SERIES	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	SAND, CLEAN, DRY, AND DULL ALKYD AND GLOSSY SURFACE
P-8	MANAGER'S OFFICE DOOR AND DOOR FRAME.	PEARLY WHITE	SHERWIN WILLIAMS	SW7009	PRO INDUSTRIAL PRE-CATALYZED EPOXY SEMI-GLOSS, K46W1150 SERIES	DTM BONDING PRIMER, B66A50	PRO-CRYL METAL PRIMER, B66-1300 SERIES	FOR SCAQMD - PROINDUSTRIAL ZERO VOC SEMI-GLOSS, B66-650	GC	GC	SAND, CLEAN, DRY, AND DULL ALKYD AND GLOSSY SURFACE

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	CEILING	COMMENTS
101	MERCHANDISE	EXISTING TILE	B-1	P-6, FRP-2, WC-1	EXISTING ACT/DRYWALL	
102	SALES	EXISTING TILE	B-1	P-6, FRP-2, WC-1	PROVIDE NEW WHITE WASHABLE CEILING TILE WHERE REQUIRED AT ALL FOOD AREAS.	
103	OFFICE	EXISTING TILE	B-1	FRP-1, P-4	EXISTING ACT	
104	EXISTING FREEZER	EXISTING SC-2	NONE	NONE	PREMANUFACTURED INSULATED COOLER / FREEZER CEILING, CELING ABOVE IS UNFINISHED EXPOSED STRUCTURE	
105	EXISTING COOLER	EXISTING SC-2	NONE	NONE	PREMANUFACTURED INSULATED COOLER / FREEZER CEILING, CELING ABOVE IS UNFINISHED EXPOSED STRUCTURE	
106	EXISTING BACKROOM	EXISTING TILE	EXISTING	EXISTING FRP	EXISTING ACT	
107	EXISTING BACKROOM	EXISTING TILE	EXISTING	EXISTING FRP	EXISTING ACT	
108	EXISTING WOMEN'S RESTROOM	EXISTING TILE	EXISTING	EXISTING TILE	EXISTING DRYWALL	
109	EXISTING ELECTRICAL ROOM	EXISTING TILE	EXISTING	EXISTING PAINT	EXISTING DRYWALL	
110	EXISTING MEN'S RESTROOM	EXISTING TILE	EXISTING	EXISTING TILE	EXISTING DRYWALL	
111	HALLWAY	EXISTING TILE	B-1 AS INDICATED	WC-1,P-6	EXISTING ACT	
112	EXISTING BEER COOLER	EXISTING TILE	B-1	FRP-2	PREMANUFACTURED INSULATED COOLER / FREEZER CEILING, CELING ABOVE IS UNFINISHED EXPOSED STRUCTURE	PRE-FAB FINISH AT CEILING
113	EXISTING COOLER VAULT	EXISTING SC-2	EXISTING	NONE	PREMANUFACTURED INSULATED COOLER / FREEZER CEILING, CELING ABOVE IS UNFINISHED EXPOSED STRUCTURE	PRE-FAB FINISH AT CEILING

MATERIAL MANUFACTURER CONTACT INFORMATION

MANUFACTURER	CONTACT	PHONE	EMAIL
BELLAVATI	EDDIE KALLMAN	859-533-3079	EKALLMAN@DOYLEFARRIS.COM
CUSTOM BUILDING PRODUCTS	HOWARD JANCY	312-515-9215	HOWARD.JANCY@CBPMAIL.NET
DALTILE	VICKI MARCH	702-517-3335	7-ELEVEN@DALTILE.COM
DECOR VENDOR	SE RETAIL: JEFF SZUBINSKI IMAGINE: JACK HIGGINS	SE RETAIL: 864-421-2128 IMAGINE: 847-543-6376	SE RETAIL: JSZUBINSKI@SERETAIL.COM IMAGINE: JHIGGINS@THEIMAGINEGROUP.COM
DRYVIT	BOB DAZEL	734-790-6765	BOB.DAZEL@DRYVIT.COM
DURO-LAST	AUSTIN RUSSELL	989-415-1316	AUSTIN.RUSSELL@HOLCIM.COM
HINEY HIDERS	TRENT THETFORD	214-676-8070	TRENT@3TBUILDINGMATERIALS.COM
KAWNEER	CHERYL WILKERSON	317-771-9263	CHERYL.WILKERSON@ARCONIC.COM
MAPES ARCHITECTURAL CANOPIES	KENDALL FRANTZ	888-273-1132	NATIONALACCOUNTS@MAPES.COM
MARLITE	DAN EGBERS	330-260-7633	DEGBERS@MARLITE.COM
MOMENTUM	AMBER GAINES	513-226-1509	AGAINES@MOMTEX.COM
NICHIHA	RYAN PARKER	770-805-9466	RPARKER@NICHIHA.COM
PAC-CLAD	BOB LAFORGE	770-427-3678 EXT. 1209	BLAFORGE@PETERSENMAIL.COM
ROPPE	RAUL NOMBRANO	682-215-5460	RAUL.NOMBRANO@PROFESSIONALFLOORING.COM
SCHLUTER	EARL MAICUS	518-420-3618	EMAICUS@SCHLUTER.COM
SHERWIN WILLIAMS	MIKE KONCILJA	602-653-9577	MIKE.K@SHERWIN.COM
USG	NAOMI MCGANN	714-313-6442	NMCGANN@USG.COM
WILSONART	BRYNN BISHOP	720-346-4538	BRYNN.BISHOP@WILSONART.COM

INTERIOR MATERIALS SCHEDULE

CODE	DESCRIPTION	COLOR	MANUFACTURER	MODEL	FURNISH BY	INSTALL BY	COMMENTS
CEILING							
CLG-2	GYPSUM BOARD CEILING	WHITE	USG		GC	GC	REFER TO RCP FOR PAINT FINISH
CLG-3	VINYL-FACED ACOUSTICAL CEILING TILE 24X24	WHITE	USG	PREMIER HI-LITE KAPOK PANELS 7056G	GC	GC	
CONCRETE							
SC-2	SEALED CONCRETE	CONCRETE MIX	BY G.C.		GC	GC	ONLY SEAL CONCRETE
COOLER / FREEZER FLOOR							
MANUF	COOLER / FREEZER FLOOR	MANUF	BY G.C.		GC	GC	INSULATED COOLER / FREEZER FLOOR PANEL
PLASTIC LAMINATE							
PL-1	PLASTIC LAMINATE	MATTE BLACK	WILSONART	BLACK MATTE 1595-60	GC	GC	LAV SHROUD
SOLID SURFACE							
SS-1	SOLID SURFACE COUNTERTOP	ANCHORAGE DFS1-309	BELLAVATI	2 CM THICK WITH MITER EDGE	GC	GC	LAV COUNTERTOP
TILE							
T-1	12X24 PORCELAIN FLOOR TILE	PEWTER	DALTILE	SEV ELEV SOUTHLAND, #NT711SERCT1224PL	OWNER	GC	PATTERN: 1/3 RUNNING BOND, GROUT LINE: 3/16", THINSET: VERSABOND GRAY THINSET, 50/LB BAG, GROUT: POLYBLEND SANDED GROUT, #185 NEW TAUPE, 25/LB BAG
T-2	12X24 GLAZED PORCELAIN FLOOR TILE WITH STEPWISE TECHNOLOGY	TRUFFLE, VL64 WITH STEPWISE	DALTILE	VOLUME SERIES, #VL64RCT1224MTJ1	OWNER	GC	PATTERN: 1/3 RUNNING BOND, GROUT LINE: 3/16", THINSET: VERSABOND GRAY THINSET, 50/LB BAG, GROUT: POLYBLEND SANDED GROUT, #185 NEW TAUPE, 25/LB BAG
T-3	12X24 COLORBODY PORCELAIN WALL TILE	CREME LINEN, P686	DALTILE	FABRIQUE, #P686RCT1224RMT	OWNER	GC	PATTERN: RUNNING BOND, RUN VERTICALLY, GROUT LINE: 3/16", THINSET: PROLITE PREMIUM LARGE FORMAT GRAY THINSET 30/LB BAG, GROUT: POLYBLEND UNSANDED GROUT #185 NEW TAUPE 25/LB BAG
T-4	8" HEXAGON PORCELAIN WALL TILE	GREEN, N157 SEHEX8MT	DALTILE	LUCKY SEVEN COLORBODY, N157 SEHEX8MT	OWNER	GC	PATTERN: HORIZONTAL STACKED, GROUT LINE: 3/16", THINSET: VERSABOND WHITE THINSET, 50/LB BAG, GROUT: POLYBLEND DRY GROUT UNSANDED, #185 NEW TAUPE 25/LB BAG
WALL CLADDING							
FRP-1	FRP	P100 WHITE	MARLITE	PEBBLE FINISH	GC	GC	INSTALL USING C915 CONSTRUCTION ADHESIVE WITH FULL-HEIGHT PVC MOULDING AT ALL INSIDE CORNERS AND AT PANEL TERMINATION
FRP-2	FRP	WHITE	MARLITE	SYMMETRIX, SMART SEAM, SUBWAY 3"X6", WHITE SS100-G63-R1 - STARTER PANEL: 42"X48"; FIELD PANELS: 45"X48"	GC	GC	INSTALL USING C915 CONSTRUCTION ADHESIVE WITH FULL-HEIGHT PVC MOULDING AT ALL INSIDE CORNERS AND AT PANEL TERMINATION
FRP-3	FRP	P470N DARK GREY	MARLITE	PEBBLE FINISH	GC	GC	42"H WAINSCOT @ LOCALIZATION GRAPHIC; INSTALL USING C915 CONSTRUCTION ADHESIVE WITH PVC MOULDING AT ALL INSIDE CORNERS AND AT PANEL TERMINATION
WALL COVERING							
WC-1	54" TYPE II WALL COVERING	GLASS REFLECTIONS T2-EG-03	MOMENTUM	STRUCTURED, NA-19-711-03	TURNKEY	GC	
WC-2	54" TYPE II WALL COVERING	BRONZE, L2-RI-06	MOMENTUM	RIVETING, NA-19-711-06	TURNKEY	GC	
WC-3	WALL PROTECTION	CHAMPAGNE AFP04-078	MOMENTUM	VANTAGE III VERDON, WASHED, NA-19-711-08	TURNKEY	GC	
CORNER GUARD							
CG-1	5/8" X 5/8" X 120" PVC CORNER GUARD	WHITE	MARLITE	FRP CORNER GUARDS AND MOLDINGS	GC	GC	USED WITH FRP-1 & FRP-2, FULL HEIGHT OF PANELS
CG-2	1/2" ALUMINUM CORNER GUARD	SATIN ANODIZED ALUMINUM	SCHLUTER	RONDEC, RO 100 AE	OWNER	GC	USED WITH T-3 CORNERS ONLY
CG-3	1-1/2" X 1-1/2" X 120" CORNER GUARD	361 PEARL	VERSA IMPACT	ASRCG, CGU-12 12-361	TURNKEY	GC	USED WITH WC-3
CG-4	1-1/2" X 1-1/2" X 120" CORNER GUARD	94 SUMMER FOG	VERSA IMPACT	ASRCG, CGU-12 12-94	TURNKEY	GC	USED WITH WC-1
FLOOR TRANSITION							
TR-1	SCHLUTER TRANSITION	SATIN ANODIZED ALUMINUM	SCHLUTER	RENO-U, NO. AEU 100	OWNER	GC	USED WITH TILE TO CONCRETE TRANSITIONS, INSTALL PER MANUFACTURER SPECIFICATION
TR-2	SCHLUTER TRANSITION	SATIN ANODIZED ALUMINUM	SCHLUTER	DECO, NO. AE 100D	OWNER	GC	USED WITH SAME HEIGHT TILE TO TILE TRANSITIONS, INSTALL PER MANUFACTURER SPECIFICATION
TOP CAP							
TC-1	1/2" X 8' TOP CAP	694 CAFE AU LAIT	VERSA IMPACT	ASRTC, WC-98 8-694	TURNKEY	GC	USED WITH WC-2
TC-3	1/2" X 8' TOP CAP	361 PEARL	VERSA IMPACT	ASRTC, WC-98 8-361	TURNKEY	GC	USED WITH WC-3
TC-4	1/2" X 8' TOP CAP	94 SUMMER FOG	VERSA IMPACT	ASRTC, WC-98 8-94	TURNKEY	GC	USED WITH WC-1
WALL BASE							
B-1	4" VINYL BASE WITH 3/8" COVE RADIUS	BLACK BROWN	ROPPE	193 BLACK BROWN	TURNKEY	GC	
B-3	3/8" METAL COVE BASE	SATIN ANODIZED ALUMINUM	SCHLUTER	DILEX-AHK, AHK 1S 100 AE	OWNER	GC	
WALL BASE							
B-2	6X12 PORCELAIN COVE TILE BASE	PEWTER, VL78	DALTILE	SEV ELEV SOUTHLAND, VL78P36C9TB1P2	OWNER	GC	OPTIONAL: FOR USE WITH T-1 WHEN REQ'D BY JURISDICTIONAL CODE
B-4	6X12 PORCELAIN COVE TILE BASE	TRUFFLE, VL64	DALTILE	VOLUME SERIES, VL64P36C9TB1P2	OWNER	GC	OPTIONAL: FOR USE WITH T-2 WHEN REQ'D BY JURISDICTIONAL CODE

EXTERIOR MATERIALS SCHEDULE (CFS)

CODE	DESCRIPTION	COLOR	MANUFACTURER	MODEL	FURNISH BY	INSTALL BY	COMMENTS
EIFS							
EIFS-1	EIFS	104 DOVER SKY	DRYVIT	OUTSULATION PLUS MD, SANDPEBBLE FINE TEXTURE; 7ELE 01 1022 ST	GC	GC	
FIBER CEMENT PANEL							
FC-1	FIBER CEMENT PANELS - VINTAGEWOOD	CEDAR	NICHIHA	AWP 3030	GC	GC	VERTICAL INSTALLATION
METAL							
MT-1	EXPOSED FASTENER CORRUGATED METAL PANEL	BURNISHED SLATE	PAC-CLAD	7/8" 24 GAUGE CORRUGATED METAL PANEL	GC	GC	INSTALL VERTICALLY
MT-2	PRE-FINISHED METAL COPING & COMPRESSION EDGE	COAL BLACK	DURO-LAST	DURO-LAST #6052 & #3110	GC	GC	20 GA. PREFINISHED METAL PARAPET CAP
MT-3	PRE-FINISHED ALUMINUM CANOPY	MATTE BLACK	MAPES ARCHITECTURAL CANOPIES	MAPES SUPER LUMIDECK FLAT SOFFIT CANOPY	GC	GC	MATTE BLACK BAKED ENAMEL WITH REAR GUTTER CONNECTIONS
MT-4	PRE-FINISHED ALUMINUM DOWNSPOUTS, SCUPPER & COLLECTION BOX	MATTE BLACK (32)	ATAS	COMMERCIAL GRADE WATER CONTROL	GC	GC	
MT-5	PRE-FINISHED LADDER	BLACK	ALACO LADDER CO.	FIXED WALL LADDER, MODEL 561 AND H300 SECURITY DOOR WITH POWDER COAT FINISH	GC	GC	
ROOFING							
MR-1	MEMBRANE ROOFING SYSTEM	WHITE	DURO-LAST	WHITE 40MIL SINGLE-PLY PVC ROOFING MEMBRANE	GC	GC	
STOREFRONT							
S-1	ALUMINUM STOREFRONT FRAMING	#29 BLACK	KAWNEER	451T VG	GC	GC	

BRIAN D. LAUG, AIA NCARB
ARCHITECT

16925 OLD SAWMILL ROAD
WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

MATERIALS SCHEDULES

ISSUE / REVISIONS:

No.	DATE	DESCRIPTION
1	6/6/2025	BID & PERMIT SET

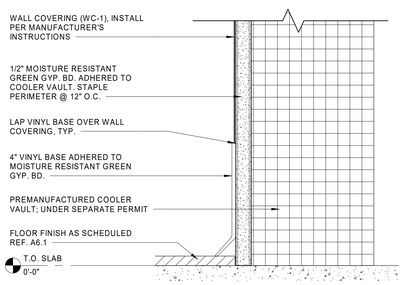
SEAL:

BRIAN D. LAUG REGISTERED ARCHITECT 13568 NORTH CAROLINA WOODBINE, MD 6/11/2025

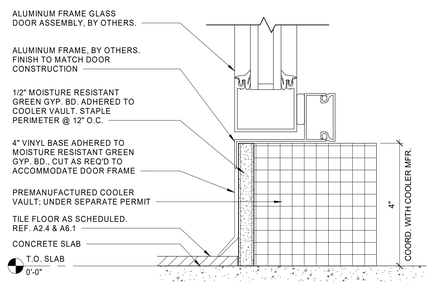
DRAWN BY:	CHECKED BY:
BMB	JK
SCALE:	PROJECT No:
	24088
DATE:	FILE NAME:
6/6/2025	

SHEET NO:

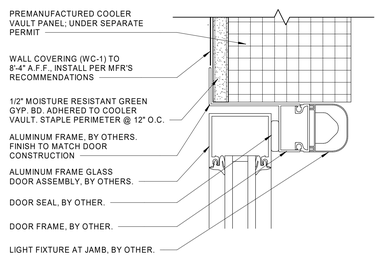
A6.1



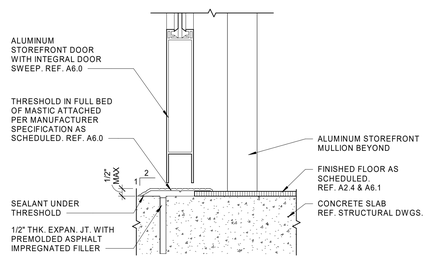
8 TYP. WALL BASE
6" = 1'-0"



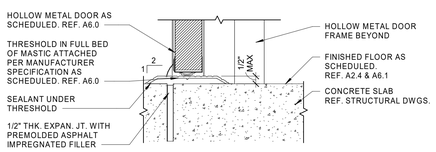
7 COOLER MERCH DOOR TRANSITION BASE
6" = 1'-0"



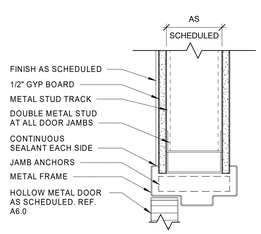
6 COOLER MERCH DOOR TRANSITION HEAD / JAMB
6" = 1'-0"



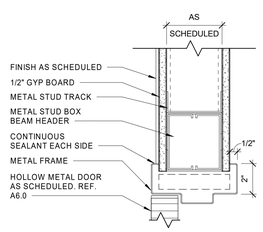
5 EXTERIOR DOOR THRESHOLD @ STOREFRONT
3" = 1'-0"



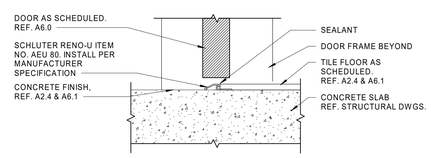
4 EXTERIOR DOOR THRESHOLD @ HM DOOR
3" = 1'-0"



3 INTERIOR DOOR JAMB
3" = 1'-0"



2 INTERIOR DOOR HEAD
3" = 1'-0"



1 FLOOR TRANSITION @ TILE/CONCRETE
3" = 1'-0"

BRIAN D. LAUG, AIA NCARB
ARCHITECT

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WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

INTERIOR DETAILS

ISSUE/ REVISIONS:

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SCALE: As indicated	PROJECT No: 24088
DATE: 6/6/2025	FILE NAME:

SHEET NO:

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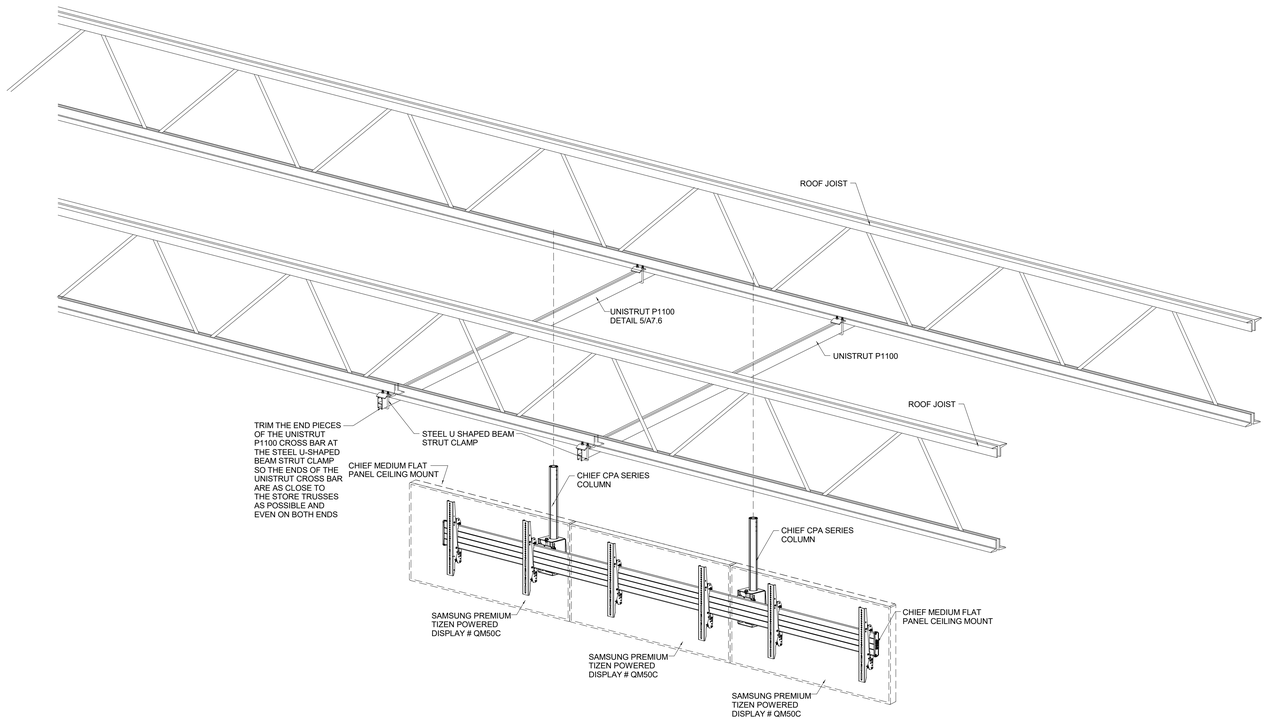
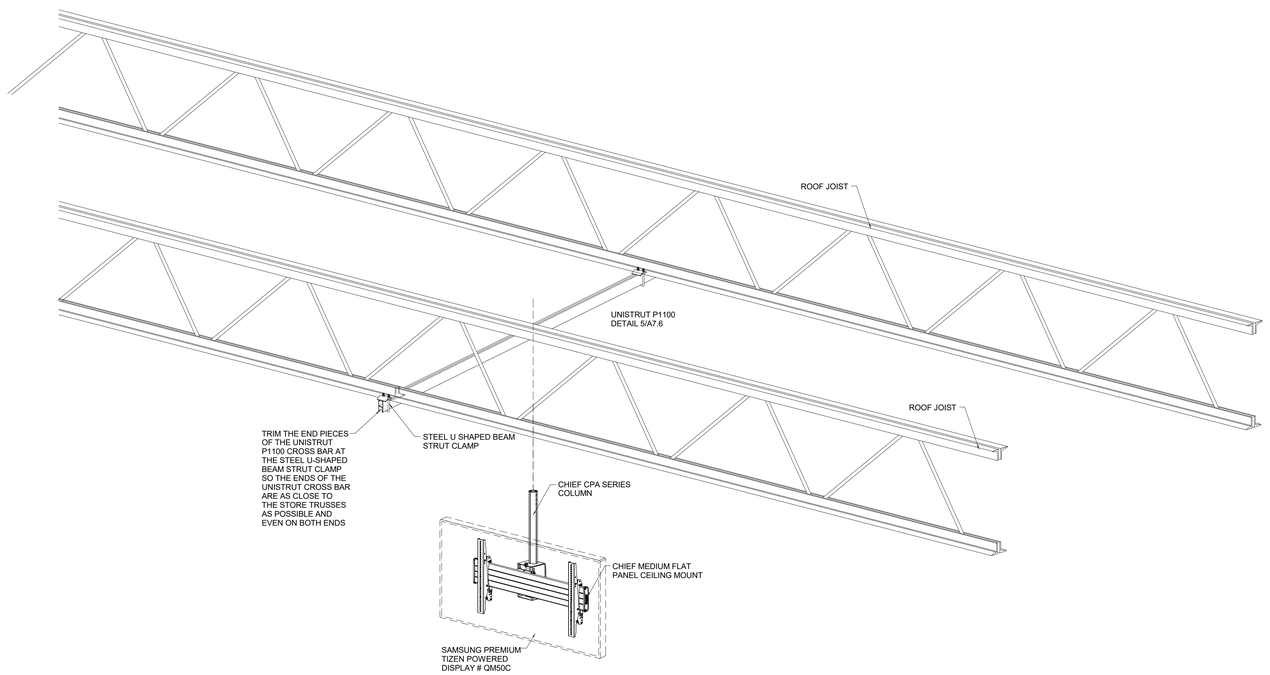


2 GENERAL TRIPLE MENU BOARD/PROMO SCREEN CEILING MOUNTING DETAIL
3/4" = 1'-0"



1 GENERAL SINGLE MENU BOARD/PROMO SCREEN CEILING MOUNTING DETAIL
3/4" = 1'-0"

GENERAL NOTES
TRIPLE MENU BOARD - CEILING MOUNT

1. G.C. TO ALWAYS FOLLOW THE MANUFACTURER'S INSTRUCTIONS THAT COME WITH THE HARDWARE.
2. NOT EVERY INSTALLATION METHOD CAN BE DOCUMENTED. G.C IS EXPECTED TO KNOW HOW TO ATTACH TO ANY TYPE OF CEILING STRUCTURE. THESE INSTRUCTIONS WILL ASSUME THAT G.C IS ATTACHING UNISTRUT TO THE STRUCTURE ABOVE THE CEILING. PLEASE REFER TO DETAILS 1/A7.5 & 2.A7.5 FOR MORE INFORMATION.
3. THE SCREEN MOUNT SUPPORT COLUMNS SHOULD BE LOCATED PER THE DIMENSIONS PROVIDED ON A2.6. DMBS SHOULD NOT INTERFERE WITH THE SECURITY CAMERAS. CAMERAS ARE 360° AND LOOK AT THE CUSTOMER, CASH DRAWER, AND CIGARETTE RACK.
4. **TRIPLE SCREEN MOUNT - HARDWARE**
   - 4.1. SCREEN MOUNT - CHIEF LCM3X1U
   - 4.2. UNISTRUT ADAPTOR CHIEF CMA372
   - 4.3. COLUMN - CHIEF CPA072
   - 4.4. COLUMN TO UNISTRUT CONNECTOR - CHIEF CPA262
5. **TRIPLE MENUBOARD MOUNT - INSTALLATION INSTRUCTIONS**

PLEASE READ ALL INSTRUCTION INCLUDING THE TIPS SECTION BELOW!

- 5.1. INSTALL THE UNISTRUT OR THE REQUIRED CEILING STRUCTURE ABOVE THE CEILING SO THAT THE CENTER OF THE TWO COLUMNS WILL BE 57"-60" APART.
- 5.2. BUILD AND ASSEMBLE CEILING MOUNT AS PER MANUFACTURER'S INSTRUCTIONS

6. **TRIPLE SCREEN MOUNT - INSTALLATION TIPS**

- 6.1. DO NOT MIX UP THE FASTENERS FROM EACH OF THE COMPONENTS. MANY LOOK THE SAME.
- 6.2. IF ANY OF THE INSTRUCTIONS GIVE YOU THE OPTION OF USING SECURITY VS. NON-SECURITYSCREWS, CHOOSE THE NON-SECURITY SCREWS.
- 6.3. CUT A HOLE IN THE CEILING TILE FOR THE COLUMNS, DO NOT CUT THE CEILING TILES IN HALF.
- 6.4. TO CENTER THE RAIL BETWEEN THE COLUMNS, MARK THE CENTER OF THE RAIL (59 1/2"). MEASURE THE MID-POINT BETWEEN THE COLUMNS AND LINE UP YOUR MARK.
- 6.5. DO NOT FULLY TIGHTEN THE SET SCREWS ON THE ARRAY HEADS UNTIL THE HORIZONTAL RAIL HAS BEEN INSTALLED AND LEVELED.

GENERAL NOTES
SINGLE MENU BOARD - CEILING MOUNT

1. WHEN INSTALLING G.C TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS THAT COME WITH THE HARDWARE.
2. NOT EVERY INSTALLATION METHOD CAN BE DOCUMENTED. G.C IS EXPECTED TO KNOW HOW TO ATTACH TO ANY TYPE OF CEILING STRUCTURE. THESE INSTRUCTIONS WILL ASSUME THAT G.C IS ATTACHING UNISTRUT TO THE STRUCTURE ABOVE THE CEILING.
3. THE SCREEN MOUNT SUPPORT COLUMN SHOULD BE LOCATED PER THE DIMENSIONS PROVIDED ON A2.6.
4. **PROMO SCREEN MOUNT - HARDWARE**
   - 4.1. SCREEN MOUNT - CHIEF MCM1U
   - 4.2. UNISTRUT ADAPTOR CHIEF CMA372
   - 4.3. COLUMN - CHIEF CPA072
   - 4.4. COLUMN TO UNISTRUT CONNECTOR - CHIEF CPA262
5. **PROMO SCREEN MOUNT - INSTALLATION INSTRUCTIONS**

- 5.1. BUILD AND ASSEMBLE CEILING MOUNT AS PER MANUFACTURER'S INSTRUCTIONS.
- 5.2. DO NOT MIX UP THE FASTENERS FROM EACH OF THE COMPONENTS. MANY LOOK THE SAME.
- 5.3. SET THE TILT ON THE SCREEN MOUNT TO 10 DEGREES
- 5.4. MAKE SURE THE MOUNT IS LEVEL

6. **PIPE CUTTING**

- 6.1. ATTACH THE CPA262 COUPLER TO ONE END OF THE COLUMN AND SCREW INTO THE UNISTRUT ADAPTOR.
- 6.2. MARK THE HOLE THAT IS AT OR ABOVE 90" ABOVE THE FLOOR. IF THE PIPE DOES NOT EXTEND DOWN TO 90" BECAUSE THE MOUNTING POINT IS VERY HIGH ABOVE THE CEILING, YOU CAN GO AS HIGH AS 98".
- 6.3. MARK THE TOP EDGE OF THE HOLE BELOW AND CUT THE PIPE OFF AT THIS MARK.

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PROJECT:

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1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

DIGITAL MENU BOARDS INSTALLATION GUIDE AND DETAILS

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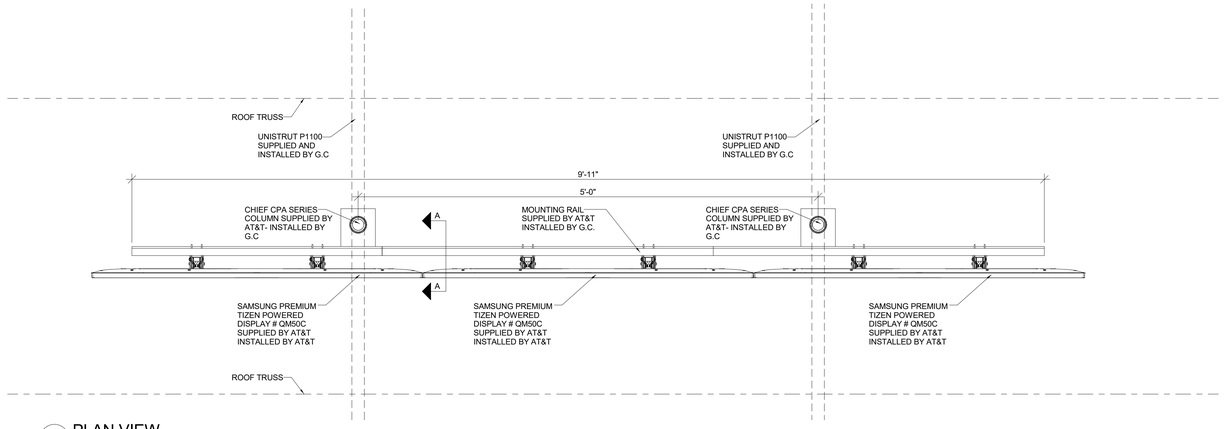
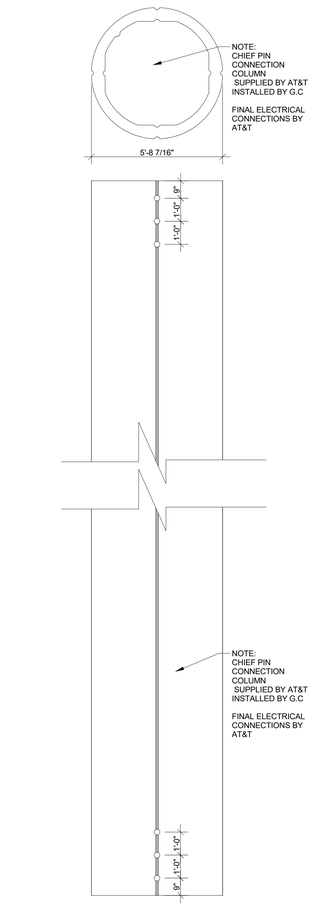
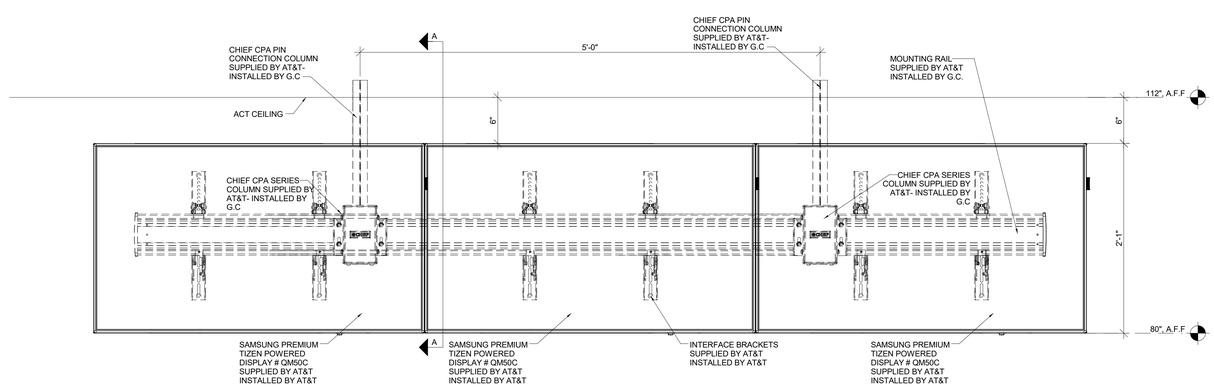


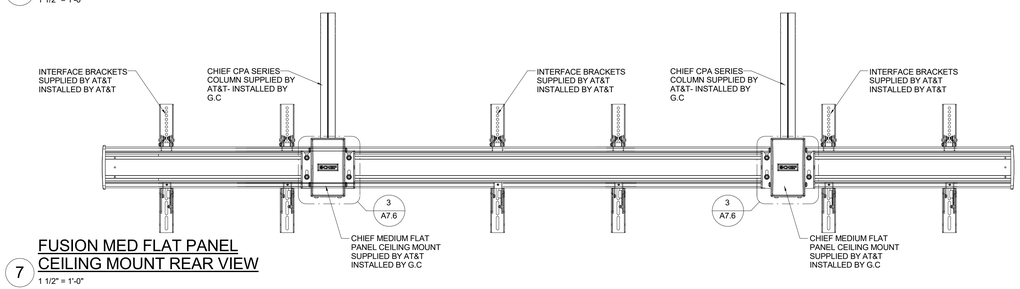
11 PLAN VIEW
1 1/2" = 1'-0"



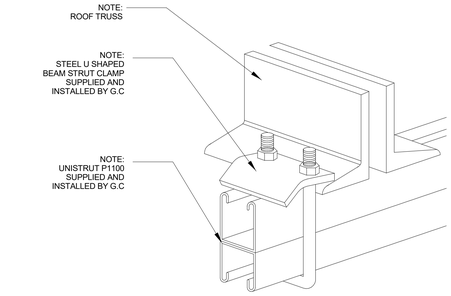
8 PIN CONNECTION COLUMN
3/8" = 1'-0"



9 FRONT VIEW
1 1/2" = 1'-0"

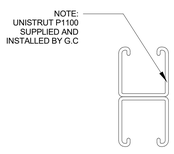


FUSION MED FLAT PANEL
CEILING MOUNT REAR VIEW
7 1 1/2" = 1'-0"

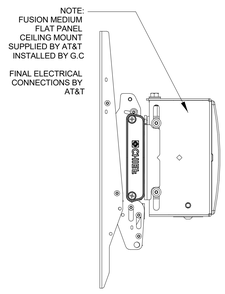


10 TRUSS AND UNISTRUT CONNECTION DETAIL
N.T.S

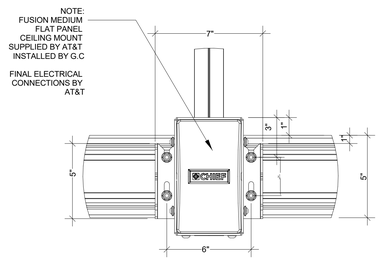
6 SECTION AA
1 1/2" = 1'-0"



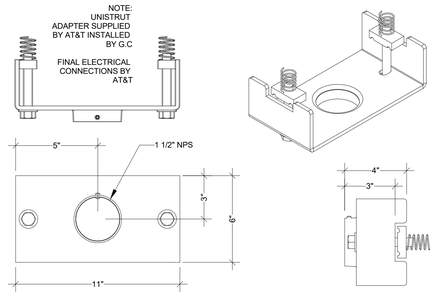
5 UNISTRUT # P1100
6" = 1'-0"



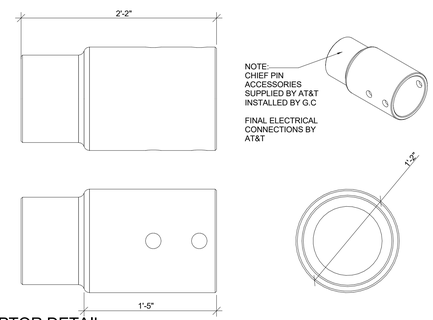
4 SIDE ELEVATION
3" = 1'-0"



3 PNL CEILING MOUNT REAR ELEVATION
3" = 1'-0"



2 UNISTRUT ADAPTED DETAIL
3" = 1'-0"



1 ADAPTOR DETAIL
1 1/2" = 1'-0"

BRIAN D. LAUG, AIA NCARB
ARCHITECT

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WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-
ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

DIGITAL MENU BOARDS
INSTALLATION GUIDE AND
DETAILS

ISSUE/REVISIONS:

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SEAL:

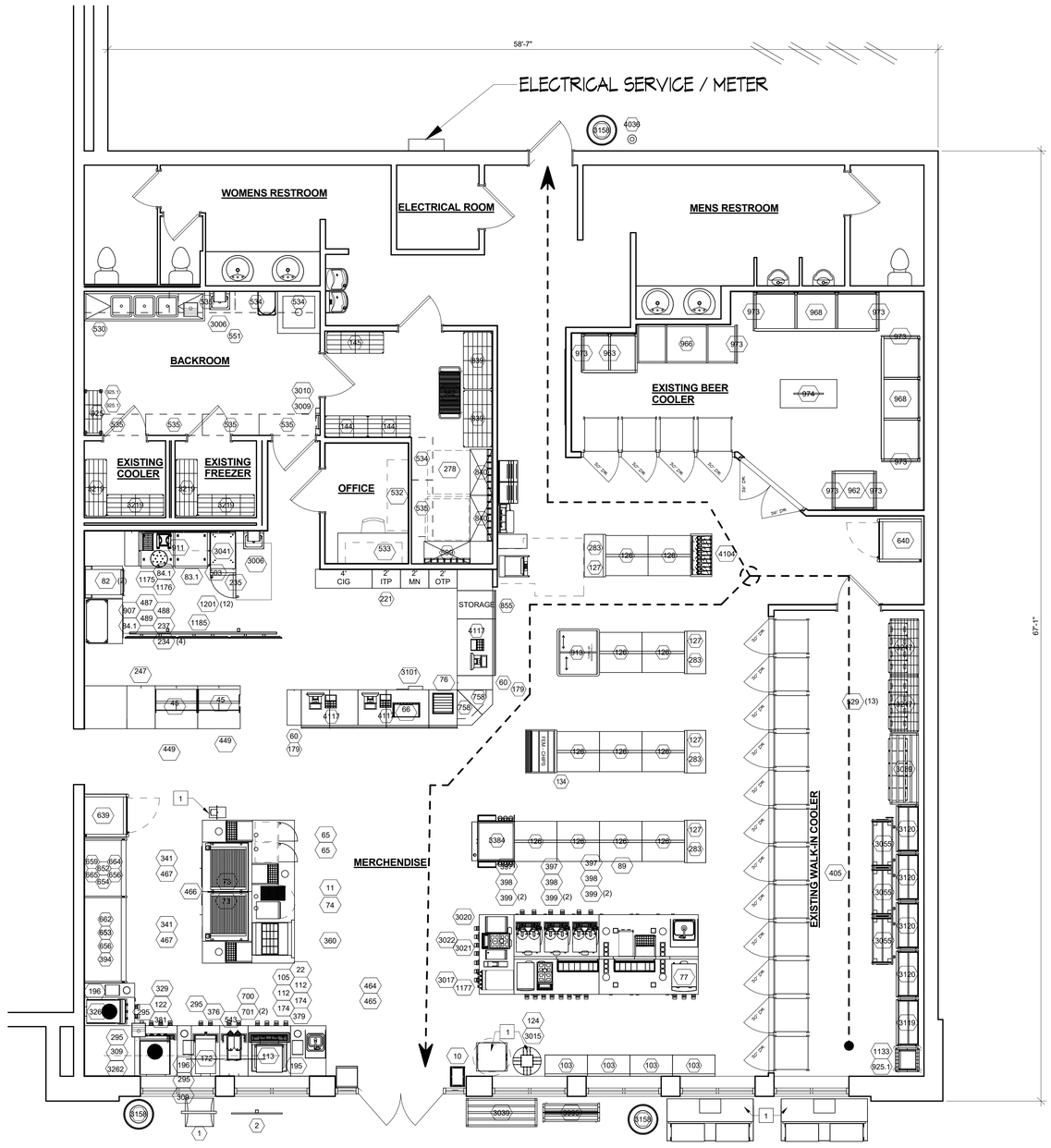
BRIAN D. LAUG
REGISTERED ARCHITECT
13568
NORTH CAROLINA
WOODBINE, MD
6/11/2025

DRAWN BY:	CHECKED BY:
BMB	JK
SCALE:	PROJECT No:
As indicated	24088
DATE:	FILE NAME:
6/6/2025	

SHEET NO:

A7.3

KEYNOTES	
1	3RD-PARTY VENDOR-SUPPLIED ITEM
2	HAND SOAP OR SANITIZER TO BE PROVIDED BY OWNER AND INSTALLED ON WALL BY HAND SINK.



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

BRIAN D. LAUG, AIA NCARB
ARCHITECT

16925 OLD SAWMILL ROAD
WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

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1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

EQUIPMENT FLOOR PLAN

ISSUE / REVISIONS:

No.	DATE:	DESCRIPTION
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BRIAN D. LAUG REGISTERED ARCHITECT 13568 NORTH CAROLINA WOODBINE, MD 6/11/2025

DRAWN BY:	CHECKED BY:
BMB	JK
SCALE:	PROJECT No:
1/4" = 1'-0"	24088
DATE:	FILE NAME:
6/6/2025	

SHEET NO:

EQ1.0

ITEM	QTY	ORACLE	SUPPLIER	PART NUMBER	DESCRIPTION	FURNISH BY	INSTALL BY
533	1	03265638	Intermetro Industries Corp	711DW184	48" Shelf System - (Above Office Desk)	TURNKEY	GC
534	3	03265639	Intermetro Industries Corp	711WS23S	24"X36" Single Wall Shelf System (General Use)	TURNKEY	GC
535	6	03265640	Intermetro Industries Corp	711WS24S	24"X48" Single Wall Shelf System (General Use)	TURNKEY	GC
543	1	03126200	Bunn O Matic Corporation	49304.0001	ITBDD Sweetener Pump Kit	TURNKEY	GC
551	1	3265670	Intermetro Industries Corp	711HT36	36" Hanger Tube With Brackets For Trash Bag Rolls Dispensing - Option 2	TURNKEY	GC
599	1	03299751	Mariani	11044	3x4/4 Vertical Rack, no pumps (Pumps supplied by FBD)	TURNKEY	GC
639	1	03140605	Zero Zone Inc	1RHLC30	1 Door Highlight Black Exterior 448a Low Temp Doored Remote Case (To Be Used W/ Condensing Unit 69-10244)	TURNKEY	GC
640	1	03140606	Zero Zone Inc	1RHLC30IM	1 Door Highlight Black Exterior 448a Ice Merchandiser Doored Remote Case (To Be Used W/ Condensing Unit 69-10301)	TURNKEY	GC
652	1	06170378	Sanden Vendo America Inc	RSC4RA011	Type II Air Cooler 4' Display Case (Black/Black) (Center Only. No Side Panels)	TURNKEY	GC
653	1	06170374	Sanden Vendo America Inc	RSC6RA015	Type II Air Cooler 6' Display Case (Black/Black) (Center Only. No Side Panels) (used for middle section only)	TURNKEY	GC
654	1	00130388	Heatcraft Bohn	BZT010M6BF	RSC3 / RSC4, Outdoor Remote Condensing Unit (R404)	TURNKEY	GC
656	2	06170308	Sanden Vendo America Inc		RSC, Refrigeration Line Set 50' (3/8" / 3/4")	TURNKEY	GC
659	1	06170357	Sanden Vendo America Inc	1238795	Kit, RSC Self Contained Unit Mounting Frame Kit	TURNKEY	GC
662	1	06170366	Sanden Vendo America Inc	1222264	Kit, RSC Joining	TURNKEY	GC
664	1	06170297	Sanden Vendo America Inc	1225023-BR	RSC, Right Side Panel Assembly, (Includes Glass), Black	TURNKEY	GC
665	1	06170300	Sanden Vendo America Inc	1227117-B	RSC, Peg Hook Assembly (Black, 6-12" hooks)	TURNKEY	GC
700	1	03126303	Bunn O Matic Corporation	52000.0002	Infusion ITB-DD W/Sweetener, 120v, w/display flavor group (set)	TURNKEY	GC
701	2	03126170	Bunn O Matic Corporation	39600.0059	Iced Tea/Coffee Dispenser	TURNKEY	GC
839	2	03265622	Intermetro Industries Corp	7114244	Vault 24"X48" Shelving Unit 4 Tier - Metroseal	TURNKEY	GC
840	2	03299750	Mariani	11042	3X4/4 Verticle Rack, 16 Flojet syrup pumps	TURNKEY	GC
907	1	03291571	Intermetro Industries Corp	711C3036C	Metro Cook Workstations	TURNKEY	GC
911	1	03291576	Intermetro Industries Corp	711DCC5B	60" Metro Workstation - DCC Work Station Click and Collect - 30 x 60 x 7	TURNKEY	GC
913	1	03119468	Turbo Air Inc	Turbo Air Model TFS-11	Novelty Case with 15 Baskets, Use where 6' or 5' novelty case will not work	TURNKEY	GC
925	1	03291568	Intermetro Industries Corp	711RC143CB	Replenishing Cart ONLY (CHROME)- 14"X36"X60"H, Consists of: (4)1436NC, 14"X36" Chrome Wire Shelves, (4)54U, 54" Chrome Posts, (4)5M Casters (Quote JZ687)- 711RC143CB- Packed in box W/Assembly Instructions. NOTE: This unit requires (2) MB302. Supplier part # 711RC143CB	TURNKEY	GC
925.1	3	03291572	Intermetro Industries Corp	MB30250B6	Bins (used with Replenishing Cart #925: 1 with 711RC1818KB and 2 with 711RC143CB) - (1 BOX of 6) -(Quote JZ689) MB30250B / MB30250B6. Supplier part # MB30250B6. Cost is each box of 6	TURNKEY	GC
962	1	03299657	Marketing Alliance Group	SE-51	MAG 3ft In-Line Beer Cave "Craft Beer" Fixture, 36"Wx86"Hx32.5"D	TURNKEY	GC
963	1	03299658	Marketing Alliance Group	SE-42	MAG 4ft In-Line Beer Cave Fixture, 48"Wx86"Hx32.5"D	TURNKEY	GC
966	1	03299661	Marketing Alliance Group	SE-45	MAG 7ft In-Line Beer Cave Fixture, 84"Wx86"Hx32.5"D	TURNKEY	GC
968	2	03299663	Marketing Alliance Group	SE-47	MAG 9ft In-Line Beer Cave Fixture, 108"Wx86"Hx32.5"D	TURNKEY	GC
973	8	03299667	Marketing Alliance Group	SE-58	MAG Beer Cave corner side protector kit 31.75"Wx84.375"H	TURNKEY	GC
974	1	03299668	Marketing Alliance Group	SE-57	MAG Beer Cave center display 48"Wx41"Hx24"D	TURNKEY	GC
1133	1	03291567	Intermetro Industries Corp	711RC1818KB	Replenishing Cart ONLY (for the Vault) - 18"D x 18L" x 60"H - Consists of: (5)1818NK3, 18"x18" Metroseal Wire shelves, (4)54UPK3, 54" Metroseal Post, (4)5M Casters, (Quote JZ688)	TURNKEY	GC
1175	1	03135813	Turbochef Technologies Inc	ENC-2027	Enc 2027 Narrow Stacking Stand (Used With Enc-3048)	TURNKEY	GC
1176	1	03135812	Turbochef Technologies Inc	ENC-3048	18" Cart And Clamps Kit For Double Stacking Ovens (2 Encores Or Bullets)	TURNKEY	GC
1177	1	06660123	MICRO MATIC	MMCTADA4TAP-FL	Countertop Beverage System	TURNKEY	GC
1185	1	04300511	AT&T Connectivity	TK38451	4 Screen Ceiling Mount Digital Menu Board Package, Samsung QM50C, Chief Mounts & Accessories	TURNKEY	GC
1201	12	04410128	Vollrath	#7-11-CUTGUIDE	Six slice dimple pans - 14" cutting guide with raised feet - clear coat anodized	TURNKEY	GC
3006	2	03164426	San Jamar	T1100TBK	Manual Paper Tower Dispenser	TURNKEY	GC
3009	1	03307013	Marco	711HT36	3-Box Disposable Glove Rack	TURNKEY	GC
3010	1	03307014	Marco	ABS-25319	Hair Net Dispenser	TURNKEY	GC
3015	1	03129957	Follett	15CI100A-IW-CF-ST-00	Countertop ice and water dispenser, NO FILTER	TURNKEY	GC
3017	1	03291361	Cal-mil	2051	Lid & Cup Dispenser	TURNKEY	GC
3020	1	07812012	Franke Coffee Systems	UT12	Franke Undercounter Milk Refrigerator	TURNKEY	GC
3021	1	07812006	Franke	TDFS6	Flavor Station	TURNKEY	GC
3022	1	07812011	Franke	A1000 FM CM FW	Coffee Maker	TURNKEY	GC
3039	2	03117105	New Age	2016	Dunnage Rack 24"D x 8"H x 60"L	TURNKEY	GC
3041	1	00097801	Alto-Shaam	VMCH4HRH	Vector Series Multi-Cook Oven, RIGHT HINGE 208/240V/60/3phase, with cord and plug	TURNKEY	GC
3055	3	03299728	PFI	MNO52180-F	Stockmaster 4-3 Sliding Shelves- front rolling cart.	TURNKEY	GC
3101	1	03114247	Tidel	CCK1-2B01-1000-T003	Safe with Printer Installed for PDI Back Office System	TURNKEY	GC
3119	1	03299729	PFI	MNO52180-RS	PFI Stockmaster -rear stationary- starter	TURNKEY	GC
3120	4	03299730	PFI	MNO52180-RA	PFI Stockmaster- rear stationary- adder	TURNKEY	GC
3158	3	03175280	Wasau Made	MF3399	Exterior Trash Can, Black	TURNKEY	GC
3217	2	03291657	Intermetro Industries Corp	711624NK3	Vault 24"X48" Shelving Unit 6 Tier - Metroseal	TURNKEY	GC
3219	4	03291659	Intermetro Industries Corp	7116184NK3	Vault 18"X48" SHelving Unit 6 Tier - Metroseal	TURNKEY	GC
3262	1	03310809	FBD Partnership LP	774-621-7003	Fbd 774 Rc, Video Door Included	TURNKEY	GC
3263	1	3310807	Fbd Partnership Lp	773-621-7003	Fbd 773 Rc, Video Door Included	TURNKEY	GC
3384	1	08888832	AWP	RAK-0797-ASMB	7-Eleven Bakery Case Endcap 45LX36Dx71H - 2 SIDE PANELS	TURNKEY	GC
3995	1	04410133	Bates Metal Products Inc.		Firewood Rack Display with Caster	TURNKEY	GC
4036	1	03175281	Wausau	MF4013	Smoker's Post	TURNKEY	GC
4104	1	04300819	Marketing Alliance Group	SE-278	MAG 3 ft In-line Wine 57"H Fixture w/Header 71"H	TURNKEY	GC
4117	3	07300003	Nct Technologies Group Inc		Selling Point Rack for POS / Sales Area.	TURNKEY	GC

ITEM	QTY	ORACLE	SUPPLIER	PART NUMBER	DESCRIPTION	FURNISH BY	INSTALL BY
1	1	03304401	Turnkey Resources	0	7-11 Windmaster Sign Consists of (1) 4205bkfp / 4200rbgg And (2) 2844in	TURNKEY	GC
2	1	03304400	Turnkey Resources	0	7-11 Pole Sign Consisting Of (1) X-46180 And (2) 4155in	TURNKEY	GC
10	1	03240000	Plasticade		6 Count Red Shopping Baskets With Stand 17 Long X 12 Wide X 8.5 High (American Store Fixtures) - (Includes Two 7-Eleven Stickers For Each Basket)	TURNKEY	GC
11	1	00804910	Merchandising Systems Inc	NAC3T	3 Shelf Nacho Counter Rack	TURNKEY	GC
22	1	03299748	Mariani	MC16-3172	Mccann Water Booster	TURNKEY	GC
45	2	06170391	Sanden Vendo America Inc	HFDC	Combo Serve Case, Tempered Glass, 6 Prod Temp Zones, Programmable Temp Controller With Assoc Timers, Xenon Lighting, Wire Racks, 2 Swing Open Front Doors, 2 Sliding Rear Doors. 115/1/60 Elec	TURNKEY	GC
65	2	00052320	Ettinger-Rosini & Assoc Inc	NE-17571	Panasonic Ne-17571 1700 Watt Microwave	TURNKEY	GC
66	1	03159318	Display Source Alliance Llc	107881BA DSCosmicStrandz	Multi Day Unit, Cosmic Strandz - (Bakery Rack/Banana rack) - overcounter display	TURNKEY	GC
73	2	03180540	Apw/Wyott Corp	HRS-75W-5T	Hot rod Roller Grill, 208/240v W/Truturn Coat 7/11 Replaces Item # 00010770; order with leg kit	TURNKEY	GC
74	1	00044720	Star Manufacturing Int'L Inc	HPDE2-120V	Chili Cheese Dispenser - 8mhpde2-120v Peristaltic Dispenser, Accy Kit 8mhpd2-711-P-K	TURNKEY	GC
76	1	00750777	Take A Ticket Inc	ICM(I) 32	32 Game Lottery Ticket Unit	TURNKEY	GC
77	1	00098000	Curtis	PCGT6300	Curtis 6-station Dispenser w Lift Door	TURNKEY	GC
82	2	03135810	Turnkey Resources	ENC-9600-600	Turbo Chef Bullet Oven, UL (KNLZ) ventless operation, EPA 202 test (8 hrs), internal catalytic filtration, stainless steel	TURNKEY	GC
83.1	1	03119473	Turbo Air Inc	MUF-28-n-1c-711s	Freezer, undercounter, R290, Work Top, One Section, 27" Wide, 7.0 Cubic Feet, ADA Model, 1" Casters with 1" drain pans, Sneezeguard, 1 yr warranty, ENERGY STAR	TURNKEY	GC
84.1	2	03119472	Turbo Air Inc	MUR-28-N-1C-711 S	Refrigerated Counter, R290, Work Top, Left Hinge, One Section, 27" Wide, 7.0 Cubic Feet, ADA MODEL, 1" Casters with 1" drain pans, Sneezeguard - all stainless, exterior, 1 yr warranty ENERGY STAR; fits under Metro workstation	TURNKEY	GC
89	1	03136112	Kan Pak Llc	CDG-211	Two Head Refrigerated Dispenser With Bulk Cream Graphics - Includes Standard 1 Year Parts And Labor Warranty For Bulk Cream Dispenser	TURNKEY	GC
105	1	04300414	Hoshizaki	FD-1002MRJ-CB	Hoshizaki Ice Maker, BLACK PANEL, Cubelet-Style, Remote Air-Cooled, Remote Condenser, production capacity up to 821lb/24 Hours, R404-A refrigerant, 115V/60/1-ph, 15.7 Amps	TURNKEY	GC
112	2	03164150	Hoshizaki	R404-3546-2	Pre-charged 35' refrigerant line set for Hoshizaki Ice Maker - May need two	TURNKEY	GC
113	1	05990032	Cornelius	621058783	IDC Pro - 20 FTN Brands with 4 Flavor Shots, 7-Eleven USB unit comes without drip tray, with extended splash plate	TURNKEY	GC
122	1	03262170	Fbd Partnership Lp	12-2474-0007	3 Brl Install Kit - Bulk System	TURNKEY	GC
124	1	07812000	Franke Coffee Systems	A800	Bean to Cup, coffee grounds ejector, cup sensor, gloss black	TURNKEY	GC
144	2	03265601	Intermetro Industries Corp	7114183	Single Vault Storage Shelving Unit, 18x36 - Supplier Prt# 7114183	TURNKEY	GC
145	1	03265602	Intermetro Industries Corp	7114184	Single Vault Storage Shelving Unit, 18x48 - Supplier Prt# 7114184	TURNKEY	GC
172	1	03309711	FBD Partnership LP	12-2817-0023	Frozen Uncarbonated Beverage, 7-Eleven, Lemon/Tea, SS, REMOTE, Video Door (Frozen Lemonade)	TURNKEY	GC
174	2	03299749	Mariani	AC974-00140-01	14 Line Bundle, 200'	TURNKEY	GC
195	1	03304868	Dispense Rite	MD# TLO-STNH	Lid, Straw And Napkin Dispenser	TURNKEY	GC
196	2	03304867	Dispense Rite	TLO-DL-STNH	Dome,Straw And Napkin Dispenser	TURNKEY	GC
221	1	03118158	Imageworks Display & Marketing Group Inc	711IM-10HP	10ft HP Impact Store Set - 7-Eleven	TURNKEY	GC
234	4	00804913	Merchandising Systems Inc	PTR5T	Pizza Thawing Rack - 5 Tier - Chrome Plated Steel	TURNKEY	GC
235	1	03164205	Turnkey Resources	Hot Food Smallwares Kit	Hot Food Smallware Kit:(2 ea) Winco PPC-4 Pizza Cuter, (1 ea) Cambro 34CW135 1/3 Size Food Pan, (1 ea) Cambro 30CWGL135 Food Pan Cover with Gasket, (1 pr) Winco OMF-15 15in Oven.	TURNKEY	GC
237	1	00804912	Merchandising Systems Inc	PPDR	Pizza Pan Drying Rack - 10 Spaces - Chrome Plated Steel Wire Gage 6	TURNKEY	GC
247	1	03299546	Turnkey Resources	Bake In Small Wares	Bake in Store Smallwares Kit	TURNKEY	GC
278	1	04300400	Cornelius	2090	LogiCO2 Model MK90	TURNKEY	GC
295	4	03262198	FBD Partnership LP	12-3003-0003	Refrigeration Lines Kit (Condenser To Dispenser), Remote Install, 50" Metal Flex	TURNKEY	GC
309	2	03129997	FBD Partnership LP	12-2567-0002	4 BRL Install Kit - Bulk System	TURNKEY	GC
329	1	03309718	FBD Partnership LP	12-2474-0073	FBD 561 beverage install kit for multi flavor machine bulk sys	TURNKEY	GC
341	2	03125978	Apw/Wyott Corp	21783950	Roller Grill Controller Cover for HRS-75 RG	TURNKEY	GC
360	1	03119409	Turbo Air Inc	MST-28-711S-ADA	Refrigerated Condiment Station, One Section, 27"" Wide, 7.3 Cubic Feet, Sneezeguard, Ada Model - 1 Yr Warranty	TURNKEY	GC
376	1	03309720	FBD Partnership LP	12-V561-BU03	FBD 561, FUB Lemonade Video Door only	TURNKEY	GC
379	1	05990020	Cornelius	629097436	IDC Pro Extended Splash Plate w/ ADA touchpads	TURNKEY	GC
381	1	03291376	Fbd Partnership Lp	12-V773-BU02	FBD 773, VD & PACKAGING, W/UNIT	TURNKEY	GC
382	1	03115271	Adco Industries/American Distributing Company	7011	Stowaway Cart, 22"D x 36"W x 37-1/4"H	TURNKEY	GC
394	1	03129750	Imagine Print Solutions Inc.	SV 6FT POP KIT	Sanden 6ft Deli Case Pop Kit. Includes: 1 Frame, 1 Insert 48x18, 1 Insert 22x18	TURNKEY	GC
397	3	03126273	Bunn O Matic Corporation	53452	Infusion Soft Heat Dual Drip Tray	TURNKEY	GC
398	3	03126320	Bunn O Matic Corporation	51200.011	Infusion Twin Soft Heat, Blk/SST (711) includes overlay and pre-loaded software	TURNKEY	GC
399	6	03126268	Bunn O Matic Corporation	27850.02	Infusion Soft Heat Server	TURNKEY	GC
405	1	00010735	Adco Industries/American Distributing Company	NZ Cooler Caddy - Handle	Vault Dolly Handle - (Handle Only)	TURNKEY	GC
449	2	06170394	Sanden Vendo America Inc	1260456	POP Kit	TURNKEY	GC
464	1	03299780	Mariani	183-165-01	Water Regulator, 65 psi	TURNKEY	GC
465	1	04300399	Mariani	TC5261SN	Secondary Regulator,1 product, 1 pressure	TURNKEY	GC
466	1	03180542	Apw/Wyott Corp	21858500	Bwd-75n, Bun Warmer, Dry, 208v 200w Replaces Item # 00010771	TURNKEY	GC
467	2	03291076	Apw/Wyott Corp	21794095	Kit, Divider Hrs-75 Wide Flat Replaces Item # 00010772	TURNKEY	GC
487	1	04300844	Bixolon	XL5-40	Bixolon Linerless Desktop Label Printer with 7MD	TURNKEY	GC
488	1	04300843	Bixolon		Iconex Linerless Labels	TURNKEY	GC
489	1	03291677	Intermetro Industries Corp	7117MDS	Metro Mounting Racks	TURNKEY	GC
503	1	00097816	Alto-Shaam	5028895	Equipment Stand w/Casters for Vector Oven, 23-1/2"H	TURNKEY	GC
529	13	00032032	Turnkey Resources	NZ Cooler Caddy	Small - Vault Dolly Kit (Pkg Of 6) (No Handle) - Supplier Prt # - Nz Cooler Caddy	TURNKEY	GC
530	1	03291536	Intermetro Industries Corp	711SGS6	72" Sink Wall System - Metroseal	TURNKEY	GC
532	1	03265637	Intermetro Industries Corp	711DW185	60" Shelf System (Inside Office - Side Desk Wall System)	TURNKEY	GC

BRIAN D. LAUG, AIA NCARB
ARCHITECT

16925 OLD SAWMILL ROAD
WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

EQUIPMENT SCHEDULE

ISSUE / REVISIONS:

No.	DATE	DESCRIPTION
1	6/6/2025	BID & PERMIT SET

SEAL:

BRIAN D. LAUG
REGISTERED ARCHITECT
13568
NORTH CAROLINA
WOODBINE, MD
6/11/2025

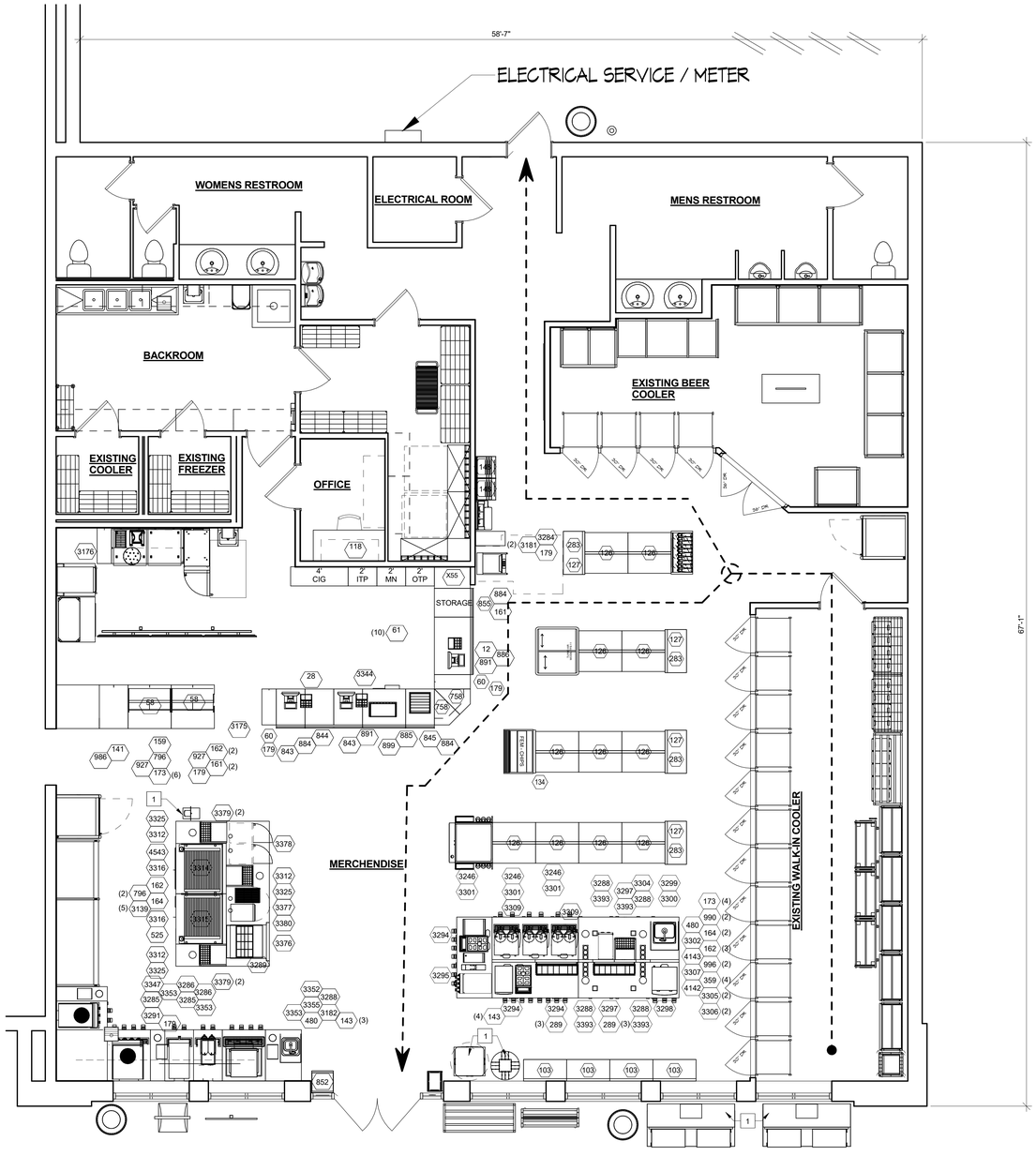
DRAWN BY: BMB	CHECKED BY: JK
SCALE:	PROJECT No: 24088
DATE: 6/6/2025	FILE NAME:

SHEET NO:

EQ1.1

APPROVED MILLWORK MANUFACTURERS*			
MANUFACTURER	CONTACT	PHONE	EMAIL
NELCO	KENNY JANES	502-939-6146	KENNY @NELCO.NET
ROYSTON	BETHANY JONES	770-735-3456 EXT. 3173	BETHANY.JONES@ROYSTONLLC.COM
SHOPCO	DAVID BIRD	214-551-0406	DBIRD@SHOPCOUSA.COM

* NOTE: APPROVED MILLWORK MANUFACTURER TO BE SELECTED BY THE 7-ELEVEN CONSTRUCTION MANAGER.



N

1 FIXTURE PLAN
1/4" = 1'-0"

BRIAN D. LAUG, AIA NCARB
ARCHITECT

16925 OLD SAWMILL ROAD
WOODBINE, MD 21797
443-250-6557

CONSULTANT:

PROJECT:

PMG DBA7-ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

FIXTURE FLOOR PLAN

ISSUE / REVISIONS:

No.	DATE	DESCRIPTION
1	6/6/2025	BID & PERMIT SET

SEAL:

BRIAN D. LAUG REGISTERED ARCHITECT 13568 NORTH CAROLINA WOODBINE, MD 6/11/2025

DRAWN BY:	CHECKED BY:
BMB	JK
SCALE:	PROJECT No.
1/4" = 1'-0"	24088
DATE:	FILE NAME:
6/6/2025	

SHEET NO:

EQ2.0

					GL,LCU1,7E		
3325	3	03502135	Royston Llc	72003133-004	Misc, 3-tier Countertop Condiment Rack, 18Wx22.75Dx20H, Radius Cutout Side Panels, Open Frame with Back panel, 3-8" Wire Shelves, 3-Acrylic Bins with Adj Dividers - Gunmetal Gray PKG,RACK,LID,TIER-3,18X20X22.750,RAD,CUTOUT,ADJ	TURNKEY	GC
3344	1	03504093	Royston Llc	62175936-ANC004	Top Kit, Solid Surface; Bellavati 'Anchorage' DFS1-309, 3 POS Penetrations, 2-18.75x18.75 cutouts for LOTTO - 9350 LTC LH - 21' SALES	TURNKEY	GC
3347	1	03504016	Royston Llc	62163865-004	Counter, Cab-36Wx35Dx34H, Beverage, Slurpee Flush Doors, Open Back, 4-22" Cup Dispensers w/Black Collars, 11.5H Wrapper, 3" Painted Step Shelf, No Cup Cover, Top Support over Cups, Caster Base - Toe Space Front Only, 36Wx42D Solid Surface Top with notch in back - Bellavati 'Anchorage', 33" Top Mount Wire Drain pan with Sprayer/Overflow, Top supports, SLRP - Gunmetal Gray (BB36) CB363353234FD2-OB,4CGN-WOC11.5,CSTR5T1,SMFN3642DPN - OSP,SLRP7E	TURNKEY	GC
3352	1	03503327	Royston Llc	62096252-004	Counter, Cab-18Wx29Dx34H, Sink, Flush Door, Open Back, Legs, No Top, Elkay Drop-In Sink BCR151 (15x15) with Moen 5995 One-Handle High Arch Pullout Faucet - Gunmetal Gray (SK18) CS18-29-34-SK-LFD-OB-15X15ESF-HB-L-NOT-7E	TURNKEY	GC
3353	3	03502718	Royston Llc	23001830-004	Counter, End Filler, 12.5Wx34H, with base - Gunmetal Gray CSEF12.50-34-B	TURNKEY	GC
3355	1	03504103	Royston Llc	62175929-ANCH	Top, 30.094Wx42D Flat - Solid Surface with Drop Waste LH (8" Off Front Edge) and Sink Cutout RH - Bellavati 'Anchorage' DFS1-309 (9350 Beverage Area) SMF,30.09X42,XWUW,1DW-8OFE-6OEL,RSK15X15-5.6OFE	TURNKEY	GC
3376	1	03504104	Royston Llc	62176164-004	Counter, Cab-32Wx35Dx34H, Safe, Flush Doors with Piano Hinges, Louvers and attached Kickplates; Open Back, Base with Toe Space Front only, 6.5Wx22H Cutouts in LH and RH End Panels, 4W Wrapper Filler Left with Louvers, No Top, Stainless Steel Arch for Turbo - Gunmetal Gray CS32-35-34-SF-FD2-LVR-OB-TURBO-PNO-B-T1-4LF-LVR-NOT-7E	TURNKEY	GC
3377	1	03504105	Royston Llc	62175937-004	Counter, Cab-30Wx35Dx34H, Storage, Flush Door, Open Back, 1 Adj Shelf, Legs, No Top - Gunmetal Gray (FF30) CS230-35-34-LFD-OB-1AS-L-NOT-7E	TURNKEY	GC
3378	1	03504080	Royston Llc	62169261-004	Counter, Cab-36Wx35Dx34H, Storage, Flush Doors, Open Back, 1 Adj Shelf, Legs, No Top - Gunmetal Gray (FF36) CS36-35-34-FD2-OB-1AS-L-NOT-7E	TURNKEY	GC
3379	4	03504106	Royston Llc	62034697	Counter, Island End Filler, 7Wx34H, with base, Flat Flange - Gunmetal Gray CIF07.00-34-B-FLF-STON	TURNKEY	GC
3380	1	03504107	Royston Llc	62175938-ANC004	Top Kit, Solid Surface; Bellavati 'Anchorage' DFS1-309 - 9350 LH RTR - Roller Grill (9060295) ISHT,7E,ISLD,RG,10'1X6'6,SMF,L,9350,LH,CST		
3393	4	03504126	Royston, Llc	10027874-004	Parts, Coffee, Syrup Holder, 4x12, Tiered, For Use With Condiment Display, gunmetal gray	TURNKEY	GC
4142	1	03430397	Royston Llc	62193436-ANC004	Top Kit, Solid Surface; Bellavati 'Anchorage' DFS1-309 - 9350 LH LTC, CST & RTR - 15'-7"x5'-7" Coffee Bar	TURNKEY	GC
4143	1	03430396	Royston Llc	62193435-004	Counter, Wrapper Filler, 0.50Wx29Dx34H, Base, with Cover Plate - Gunmetal Gray CSWF0.50-29-34,B,CVR,PLT	TURNKEY	GC
4543	1	03503965	Royston Llc	62042721-SS	MISC, single tong holder, LH includes (1) extra tumbler (for use with sneeze guards made with square tube) PKG,HLDR,TNG,04.72X05.95,SS,1"SQ-TBG,SGL,(2)TBLRS,LH,7E	TURNKEY	GC
3175	1	03502707	Royston Llc	23015635-028	Parts, Kickplate, Side, 23W - Iron Kettle Black PKG,SKT,SDE,05.88X23.00,SLS	TURNKEY	GC
3176	1	03503481	Royston Llc	60092101-004	counter, 34H, 30D, trash, straight front, cab-12x29 Flush door, flap, waste container, top-flat stainless steel 12x30 no hole, legs; gunmetal grey FFTM1-30D-ADA	TURNKEY	GC
3181	2	03503435	Royston Llc	23015719-028	23" Side Kick Plate for 12" Wide Counter (actual width 17")	TURNKEY	GC
3246	3	03503318	Royston Llc	60139984-1	Parts, Drain Pan, 21Wx7D, Top Mounted, Cold, Wire Grid, Stainless Steel, top cutout size 20.25Wx5.875D, (for 24W cabinet)	TURNKEY	GC
3284	1	03504014	Royston Llc	62163815-004	Counter, Cab-12Wx23Dx34H, Straight Front Waste with Flap, Flush Door, Closed Back, Waste Container, Legs, 12Wx24D Solid Surface - Bellavati 'Anchorage' DFS1-309 - Gunmetal Gray (FFTM12) CS122334SWLFD- CB,L,SMF1224-XFYF,7E	TURNKEY	GC
3285	2	03504017	Royston Llc	62163864-004	Counter, Cab-24Wx35Dx34H, Beverage, Slurpee, Flush Doors, Open Back, 2-22" Cup Dispensers w/Black Collars, 11.5H Wrapper, 3" Painted Step Shelf, No Cup Cover, Top Support over Cups, Caster Base - Toe Space Front Only, 24Wx42D Solid Surface Top with notch in back - Bellavati 'Anchorage', 33" Top Mount Wire Drain pan with Sprayer/Overfolow, Top supports, SLRP - Gunmetal Gray (BB24) CB24353234FD2-OB,2CGN-WOC11.5,CSTR5T1,SMFN2442DPN - OSP,SLRP7E	TURNKEY	GC
3286	2	03504015	Royston Llc	62163853-004	Counter, Cab-12Wx29Dx34H, Drop waste without Chute, Flush Door, Closed Back, Legs, 12Wx42D Solid Surfaces - Bellavati 'Anchorage' DFS1-309, Top supports - Gunmetal Gray (FFTM12) CS122934WLFD-CB-NCHT,L,SMF1242-XFYF,FSPT,7E	TURNKEY	GC
3288	5	03504020	Royston Llc	60026145-004	Counter, Cab-12Wx29Dx34H, Drop Waste, Flush Door, Closed Back, No Chute, Legs, No Top - Gunmetal Gray (FFTM12) CS122934DWLFD-CB-NCHT-21H-CTNR,L,NOT,7E	TURNKEY	GC
3289	1	03504021	Royston Llc	62163866-004	Counter, Cab-36Wx35Dx34H, Beverage, Cornelius, Flush doors, Open Back, 4-22" Cup Dispensers w/Black Collars, 11.5H Wrapper 3" Painted Step Shelf, No Cup Cover, Top Support over Cups, Caster Base w/Front Toe Space, 36Wx42D Solid Surface Top with notch in back top w/Special Cutouts, 33" Top Mount Wire Drain pan - Bellavati 'Anchorage', CNLS - Gunmetal Gray (BB36-CNLS) CB363533234FD2-OB,4CGN-WOC11.5,BCSTR5T1,SMF3642CNLS-DPN-OSP7E	TURNKEY	GC
3291	1	03504059	Royston Llc	62122214-004	Counter, End Filler, 6.5Wx34H, Beverage-Caster Base - Gunmetal Gray CSEF/CSFF06.50-34-B5-CSTR	TURNKEY	GC
3294	3	03504061	Royston Llc	62098800-004	Counter, Cab-36Wx29Dx34H, Beverage, Flush Doors, Open Back, 5- 22" Cup Dispensers w/Black Collars, 3" Painted Metal Step Shelf, No Cup Cover, 11.5H Wrapper, Legs, No Top - Gunmetal Gray CB36-29-26-34-FD2-OB-5C-GN-WOC-11.5-L-7E	TURNKEY	GC
3295	1	03504062	Royston Llc	62175838-004	Counter, Cab-30Wx29Dx34H, Beverage, Flush Door, Open Back, 4- 22" Cup Dispensers w/Black Collars, 3" Painted Metal Step Shelf, No Cup Cover, 11.5H Wrapper, Legs, No Top - Gunmetal Gray CB30-29-26-34-LFD-OB-4C-GN-WOC-11.5-SPRT-L-NOT-7E	TURNKEY	GC
3297	2	03504063	Royston Llc	62098228-004	Counter, Cab-36Wx29Dx34H, Storage, Flush Doors, Open Back, 1 Adj Shelf, Legs, No Top - Gunmetal Gray (FF36) CS36-29-34-FD2-OB-1AS-L-NOT-7E Brushed Nickel Contemporary Steel Pull, new hinge (Blum #71T7590), Open Back, Dolly with Waste Container, Safe Style Base, No Top, Offset Fillers - Seattle Mist	TURNKEY	GC
3298	1	03504064	Royston Llc	62098787-004	Counter, Cab-24Wx29Dx34H, Beverage, Flush Door, Open Back, 3- 22" Cup Dispensers w/Black Collars, 3" Painted Step Shelf, No Cup Cover, 11.5H Wrapper, Legs, No Top - Gunmetal Gray CB24-29-26-34-LFD-OB-3C-GN-WOC-11.5-L-NOT-7E	TURNKEY	GC
3299	1	03503388	Royston Llc	62096137-004	Counter, Cab-24Wx29Dx34H, Sink, Flush Door, Open Back, Elkay, Drop-in Sink PSR1918 (19x18) with Moen 6731SC One-Handle Low Arc Pullout Faucet - chrome, Legs, No Top - Gunmetal Gray (SK24) CS24-29-SK-LFD-OB-19X18ESF-HB-L-NOT-7E	TURNKEY	GC
3300	1	3504065	Royston Llc	62034193-004	Misc, Splash Guard, 24Wx24Dx16H in rear, 12H on sides, Painted Metal without Holes (Use on Stone or Solid Surface Tops) - Gunmetal Gray GRD,SPL,12.00X16X23.88x23.74,MIT2.0,HEM,W/O HLS,GNEL (24")	TURNKEY	GC
3301	3	03504066	Royston Llc	62024206-004	Counter, Cab-24Wx29Dx34H, Beverage, Flush Door, Open Back, 2-22" Cup Dispensers w/Black Collars, 3" Painted Step Shelf, No Cup Cover, 11.5H Wrapper, Top Support over Cups, Legs, No Top - Gunmetal Gray CB24-29-26-34-LFD-OB-2C-GN-WOC-11.5-SPRT-L-NOT-7E	TURNKEY	GC
3302	1	03503177	Royston Llc	23000760-004	Counter, End Filler, 6.5Wx34H, with base - Gunmetal Gray CSEF06.50-34-B CIF07.00-34-B-FLF-STON	TURNKEY	GC
3304	1	03504068	Royston Llc	72043276-004	Misc, 3-tier Countertop Condiment Rack, 18Wx17.8Dx20H, Radius Cutout Side Panels, Open Frame with Back panel, 3-8" Wire Shelves, 3-Acrylic Bins with Adj Dividers - Gunmetal Gray PKG,RACK,LID,TIER-3,18X20X17.8,RAD,CUTOUT,ADJ	TURNKEY	GC
3305	2	03504069	Royston Llc	72042975-004	Shelving, End Screen, 12Wx2Dx54H, Solid Metal Front, Solid Metal Back - Gunmetal Gray ESCN,DBL,BSE,INSE,M/M, 12X54,WALL	TURNKEY	GC
3306	2	03050407 0	Royston Llc	72037129-004	Shelving, End Screen, 18Wx2Dx54H, Solid Metal Front, Solid Metal Back - Gunmetal Gray ESCN,DBL,BSE,INSE,M/M, 18X54,WALL	TURNKEY	GC
3307	1	03504071	Royston Llc	72037130-004	Shelving, End Screen, 24Wx2Dx54H, Solid Metal Front, Solid Metal Back - Gunmetal Gray ESCN,DBL,BSE,INSE,M/M, 24X54,WALL	TURNKEY	GC
3309	2	03504073	Royston Llc	72037131-004	Shelving, End Screen, 36Wx2Dx54H, Solid Metal Front, Solid Metal Back - Gunmetal Gray ESCN,DBL,BSE,INSE,M/M, 36X54,WALL	TURNKEY	GC
3312	3	03504074	Royston Llc	62175871-004	Counter, Cab-18Wx35Dx34H, Drop waste, Flush Door, Closed Back, No Chute, Legs, No Top - Gunmetal Gray (FFTM18) CS18-35-34-DW-LFD-CB-NCHT-L-NOT-7E	TURNKEY	GC
3314	1	03504108	Royston Llc	62175857-004	Counter, Cab-42Wx41Dx28H, Bunwarmer, No Door, Front Panel with cutout for Bunwarmer, 20.5"D Heavy Duty Bun Warmer Shelf, Sloped Shelf w/3"H lip for Hot Dog Boats, Full Ht Divider Panel, Metal Flush Front, Open Back, Leveling Caster Base with 1 Set of POSI-SET floor guides included, 42Wx43.5D Flat Solid Surface Top (Bellavati 'Anchorage') with 1 Penetration and Sneeze Guard Holes - Gunmetal Gray (FF42) CS42-41-28-BWMR-OB-HDBT-TLT-BTMF-OB-DIVR-BWD75N-CSTR-SMFP42-43.5-WL-7E	TURNKEY	GC
3315	1	03504076	Royston Llc	62175859-004	Counter, Cab-42Wx41Dx28H, Napkin/Taquito/Waste, Flush Doors, Drawer w/Napkin, (3) Taquito "T" Slots, Waste, Open Back, 0 Adj Shelf, Leveling Caster Base with 1 Set of POSI-SET floor guides included, 42Wx43.5D Flat Solid Surface Top (Bellavati 'Anchorage') with 1 Penetration and Sneeze Guard Holes - Gunmetal Gray CS42-41-28-FD2-NPK-3TQO-WST-DWR-DIVR-OB-CSTR-SMFP42-43.5-WL-7E	TURNKEY	GC
X55	1	03501850	Royston Llc	60027438-004	counter, 34H, 30D, storage, cab-18x29 door, 1 adj shelf, top-flat SS 18x30 no hole, legs; gunmetal gray FF18-30D-ADA	TURNKEY	GC
58	2	03501671	Royston Llc	62031604-004	Counter, Cab-36Wx29Dx34H, Hot Hold, No Door, Closed Back, Pull- out Stainless Steel Shelf, Hot Hold Bin Insert, Legs, 36Wx36.38D Flat Stainless Steel Top, Cabinet Connector - Gunmetal Gray (FF36-HLD) CS36-29-34-ND-CB-SSPOSH-UPR-INSR-HLD-L-SF36-36.38-CBC-7E	TURNKEY	GC
60	2	03501648	Royston Llc	23003456-004	counter, 34H, 30D, trash, straight front, cab-12x29 doors, double sided, full flaps, waste containers, top-flat stainless steel 12x30 no hole, legs; gunmetal gray FFTM1-30D-DB-ADA	TURNKEY	GC
61	10	00036520	Royston Llc	192784	Grommet, Black Plastic	TURNKEY	GC
103	4	03501662	Royston Llc	70021117-004	shelving, L-unit, 36H, end cap, 36W x 18D,metal back, 16" base shelf, 2" uprights, gunmetal gray	TURNKEY	GC
118	1	03501660	Royston Llc	60019654-004	misc, desk, 32H, cab-60W x 23.5D, (1) drawer 23Wx33D, top-flat powder coated metal 60x26, no hole; gunmetal gray	TURNKEY	GC
126	11	03501650	Royston Llc	10003115-004	shelving, T-unit, 54H, 36W x 34D, wire grid, 16" base shelf, 2" uprights; gunmetal gray	TURNKEY	GC
127	4	03501652	Royston Llc	70010474-004	shelving, L-unit, 54H, end cap, 36W x 18D, solid panel, 16" base shelf, 2" uprights; gunmetal gray	TURNKEY	GC
134	1	03503758	Royston Llc	10006414-004	54H, end screen, 36W x 2D, solid panel, no base shelf, 2" uprights; gunmetal Gray	TURNKEY	GC
141	1	03503971	Royston Llc	72032724-004	Shelving, Front Merchandising Kit 24W, includes 24Wx26H Open Frame, (3) 24Wx5.5D Wire Chip Shelves (Used for Chips on Hot Hold Cabinet) - Gunmetal Gray	TURNKEY	GC
143	7	03502104	Royston Llc	62020938-004	Misc, Metal Lid Holder, 4Wx4Dx6H - Gunmetal Gray A,HLDR,LID,FLR,06.00X04.08,LID,7E	TURNKEY	GC
148	2	03501657	Royston Llc	60004634-004	shelving, slant back, feature item display (FID), 54H, 18W x 17D, (4) shelves, casters; gunmetal gray	TURNKEY	GC
159	1	03501625	Royston Llc	23015718-028	kickplate, 29" side kick plate for 12" wide counter (actual width 23") black	TURNKEY	GC
161	3	03400314	Royston Llc	23015514-028	kickplate, 24" front, 24x5.75; black	TURNKEY	GC
162	6	03400195	Royston Llc	23015355-028	Parts, Kickplate, Front, 36W - Iron Kettle Black PKG,SKT,FRT,05.88X36.00X04.00,WRAP	TURNKEY	GC
164	3	03501623	Royston Llc	23015356-028	Parts, Kickplate, Front, 48W - Iron Kettle Black PKG,SKT,FRT,05.88X48.00X04.00,WRAP	TURNKEY	GC
173	10	03400196	Royston Llc	23015357-028	kickplate, 29" side, 29x5.75, black	TURNKEY	GC
179	5	03501624	Royston Llc	23015641-028	kickplate, 12" front kick plate; black	TURNKEY	GC
283	4	03501656	Royston Llc	70018256-004	shelving, connector, T to L, 2" tube; gunmetal gray	TURNKEY	GC
289	6	03502007	Royston Llc	72000449-004	lid & condiment shelf, 36W	TURNKEY	GC
359	4	03502125	Royston Llc	62021145	4Hx4Wx4D Acrylic Coffee Stir Holder	TURNKEY	GC
480	2	03501800	Royston Llc	23015939-028	Parts, Kickplate, Front, 30W - Iron Kettle Black	TURNKEY	GC
525	1	03501588	Royston Llc	62012479-SS	MISC, single tong holder, RH includes (1) extra tumbler (for use with sneeze guards made with square tube) PKG,HLDR,TNG,04.72X05.95,SS,1"SQ-TBG,SGL,(2)TBLRS,RH,7E	TURNKEY	GC
758	2	03501818	Royston Llc	23012640-004	counter, sales, 34H, wedge, 45 degree, cab-23Lx23R, top-flat lam cosmic strandz 30Lx30R no hole, slatwall, legs; gunmetal gray SMWG-30L/30R-ADA	TURNKEY	GC
796	3	03501832	Royston Llc	23015935-028	Parts, Kickplate, Front, 18W - Iron Kettle Black PKG,SKT,FRT,05.88X18.00X04.00,WRAP	TURNKEY	GC
843	2	03501610	Royston Llc	23012847-004	counter, sales, 34H, pos, Cab-24x23 no door, 1 adj shelves, pos shelf, top-flat laminate cosmic strandz 24x30 1-hole, slatwall, legs; gunmetal gray SM2-7 (SGL POS)-ADA	TURNKEY	GC
844	1	03501608	Royston Llc	23012860-004	counter, sales, 34H, storage, cab-24x23 no door, 2 adj shelves, top-flat laminate cosmic strandz 24x30 no hole, slatwall, legs; gunmetal gray SM2-8-2SGL-STG-ADA	TURNKEY	GC
845	1	03501607	Royston Llc	60056481-004	counter, sales, 34H, lotto, cab-24x23 no door, top-flat laminate cosmic strandz 24x30 18 3/4" X 18 3/4" cut out, slatwall, legs; gunmetal gray SM2-LTTO-ADA	TURNKEY	GC
852	1	03115990	Royston Llc	60052483-004	shelving, newspaper rack, 36H, rack-18x18, (2) shelves, (2) fixed vertical metal dividers, casters; gunmetal gray	TURNKEY	GC
884	3	03501836	Royston Llc	60087089-004	Shelving, Front Merchandising Kit 24W, includes Lexan Cover, 24Wx14D Add-On Base and (3) 24Wx8D Flat Metal 3 Position Shelves - Gunmetal Gray PKG-7E-MDSR-FRT-CNDY-SLS-24"-26H-WO/SW-WCC-3-8"MSH F- AOB	TURNKEY	GC
885	2	03501838	Royston Llc	60087091-004	Shelving, Front Merchandising Kit 36W, includes Lexan Cover, 36Wx14D Add-On Base and (3) 36Wx8D Flat Metal Shelves - Gunmetal Gray PKG-7E-MDSR-FRT-CNDY-SLS-36"-26H-WO/SW-WCC-3-8"MSH F- AOB	TURNKEY	GC
886	1	03501840	Royston Llc	60087093-004	Shelving, Front Merchandising Panels, 8Dx24.6H, Includes LH and RH Radius Side Panels with Hardware - Gunmetal Gray PKG-7E-PNL-SDE-MDSR-FRT-CNDY-WHDW-08.00x26.00 (QTY2- LH&RH)	TURNKEY	GC
891	2	03501839	Royston Llc	60087092-004	Shelving, Front Merchandising Kit 48W, includes Lexan Cover, 48Wx14D Add-On Base and (6) 24Wx8D Flat Metal 3 Position Shelves - Gunmetal Gray PKG-7E-MDSR-FRT-CNDY-SLS-48"-26H-WO/SW-WCC-3-8"MSH F- AOB	TURNKEY	GC
899	1	03502218	Royston Llc	23012701-004	counter, sales, 34H, safe, cab-36x23, top-flat laminate cosmic strandz 36x30 no hole, slatwall, legs; gunmetal gray SM3T-30SW-ADA	TURNKEY	GC
927	2	03501672	Royston Llc	72003485-004	shelving, kit, 36W, includes (1) 26Hx36W open frame, (3) 5.5Dx36W wire shelves; gunmetal gray (used for chips on Hot Hold Cabinet with 6.89" overhang)	TURNKEY	GC
986	1	03503415	Royston Llc	62148729-004	Counter, Cab-24Wx29Dx34H, Storage, No Door, Closed Back, 1 Adj Shelves, Legs, includes 24Wx36.38D Flat Stainless Steel Top, Cabinet Connector - Gunmetal Gray (FF24)	TURNKEY	GC

BRIAN D. LAUG, AIA NCARB
ARCHITECT

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CONSULTANT:

PROJECT:

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ELEVEN 42655 CST

1360 NC 24-87, Cameron, NC 28326

DRG. TITLE:

FIXTURE SCHEDULE

ISSUE/REVISIONS:

No.	DATE	DESCRIPTION
1	6/6/2025	BID & PERMIT SET

SEAL:

BRIAN D. LAUG, REGISTERED ARCHITECT, 13568, NORTH CAROLINA, WOODBINE, MD

6/11/2025

DRAWN BY: BMB	CHECKED BY: JK
SCALE:	PROJECT No: 24088
DATE: 6/6/2025	FILE NAME:

SHEET NO:

EQ2.1

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ELECTRICAL SYMBOL LEGEND

LINE WEIGHT & LINE TYPE DESIGNATIONS

SYMBOL	DESCRIPTION	REMARKS
	EXISTING (UNLESS OTHERWISE INDICATED)	
	PROVIDE AS NEW (UNLESS OTHERWISE INDICATED)	

BASIC DRAWING

SYMBOL	DESCRIPTION	REMARKS
(#)	KEYED DRAWING NOTE	
	REMOVALS	
	CIRCUIT	

ONE-LINE/RISER

SYMBOL	DESCRIPTION	REMARKS
	CIRCUIT BREAKER	
	FUSE	
	DISCONNECT SWITCH (NON-FUSED)	
	DISCONNECT SWITCH (FUSED)	
	TRANSFER SWITCH	
	TRANSFORMER	
	PANELBOARD	
M	METER (SELF CONTAINED)	
CT M	METER (WITH CURRENT TRANSFORMERS)	
# M	MOTOR (NUMBER INDICATES HORSEPOWER)	
G	GENERATOR	
	GROUND CONNECTION	
	CONTINUATION	

POWER - DISTRIBUTION

SYMBOL	DESCRIPTION	REMARKS
	PANELBOARD (FLUSH-MOUNTED)	
	PANELBOARD (SURFACE-MOUNTED)	
T	TRANSFORMER	
	DISCONNECT SWITCH (NON-FUSED)	
	DISCONNECT SWITCH (FUSED)	
	COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT	
VFD	VARIABLE FREQUENCY DRIVE (VFD)	
M	MOTOR	
	HARD-WIRED EQUIPMENT CONNECTION	
G	GENERATOR	
	GROUND ROD	

POWER - BRANCH DEVICES

SYMBOL	DESCRIPTION	REMARKS
	SIMPLEX RECEPTACLE	MOUNT AT 18" AFF, UNO
	DUPLEX RECEPTACLE	MOUNT AT 18" AFF, UNO
	DUPLEX RECEPTACLE	MOUNT ABOVE COUNTER, UNO MOUNT HORIZONTAL FOR ADA
C	DUPLEX CONTROLLED RECEPTACLE	MOUNT AT 18" AFF, UNO
	TWO DUPLEX RECEPTACLES MOUNTED IN COMMON BOX	MOUNT AT 18" AFF, UNO
	SPECIAL PURPOSE RECEPTACLE, SUBSCRIPT INDICATES TYPE	MOUNT AT 18" AFF, UNO
J J	JUNCTION BOX OR OUTLET BOX	
	RECEPTACLE(S) IN RECESSED FLOOR BOX	
	CEILING MOUNTED RECEPTACLE(S)	

TELEPHONE/DATA/COMMUNICATION

SCOPE OF WORK SHALL BE RACEWAY ONLY. FOR EACH WALL DEVICE LOCATION, PROVIDE RECESSED WALL-BOX AND 1" CONDUIT STUB WITH PULL STRING TO ACCESSIBLE ABOVE CEILING SPACE. FOR EACH CEILING DEVICE LOCATION, PROVIDE RECESSED CEILING BOX AND 1" CONDUIT TO NEAREST ACCESSIBLE ABOVE-CEILING SPACE. DEVICES, CABLING, EQUIPMENT, ETC. PROVIDED BY OTHERS.

SYMBOL	DESCRIPTION	REMARKS
#D ▽	DATA OUTLET. #D SUBSCRIPT INDICATE NUMBER OF DATA AND TELEPHONE JACKS. IF NO SUBSCRIPTS ARE GIVEN, PROVIDE BLANK COVERPLATE.	MOUNT AT 18" AFF, UNO
#V ▼	TELEPHONE OUTLET. #V SUBSCRIPT INDICATE NUMBER OF DATA AND TELEPHONE JACKS. IF NO SUBSCRIPTS ARE GIVEN, PROVIDE BLANK COVERPLATE.	MOUNT AT 18" AFF, UNO
#D#V ▼	TELEPHONE/DATA OUTLET. #D #V SUBSCRIPT INDICATE NUMBER OF DATA AND TELEPHONE JACKS. IF NO SUBSCRIPTS ARE GIVEN, PROVIDE BLANK COVERPLATE.	MOUNT AT 18" AFF, UNO
W	WIRELESS ACCESS POINT	
DR	DATA RACK (REFER TO RISER, AND/OR SPECIFICATIONS FOR TYPE)	
TV H	CABLE TELEVISION OUTLET	MOUNT AT 18" AFF, UNO
	PUSHBUTTON (SUBSCRIPT INDICATES TYPE) EPO - EMERGENCY POWER OFF DB - DOOR BELL HC - DOOR OPENER	MOUNT AT 46" AFF, UNO
AD	AUDIBLE/VISUAL DOORBELL CHIME	MOUNTING HEIGHT PER ADA

LIGHTING (LETTER INDICATES TYPE, REFER TO LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION)

SYMBOL	DESCRIPTION	REMARKS
	LIGHT FIXTURE	WALL MOUNTED
	EMERGENCY LIGHT FIXTURE	WALL MOUNTED
	LIGHT FIXTURE	CEILING MOUNTED
	EMERGENCY LIGHT FIXTURE	CEILING MOUNTED
	LIGHT FIXTURE	CEILING MOUNTED
	EMERGENCY LIGHT FIXTURE	CEILING MOUNTED
	LIGHT FIXTURE	WALL MOUNTED
	EMERGENCY LIGHT FIXTURE	WALL MOUNTED
	STRIP LIGHT FIXTURE	CEILING MOUNTED
	EXIT LIGHT (HATCHING/ARROW INDICATES FACE/DIRECTION)	CEILING MOUNTED
	EXIT LIGHT (HATCHING/ARROW INDICATES FACE/DIRECTION)	WALL MOUNTED
	EMERGENCY BATTERY PACK LIGHT FIXTURE	WALL MOUNTED
S	SINGLE POLE SWITCH; T- 208V, 1 PHASE DISC. SWITCH.	MOUNT AT 48" AFF, UNO
S_3	SINGLE POLE SWITCH (3-WAY)	MOUNT AT 48" AFF, UNO
S_4	SINGLE POLE SWITCH (4-WAY)	MOUNT AT 48" AFF, UNO
S_D	SINGLE POLE SWITCH (DIMMER)	MOUNT AT 48" AFF, UNO
OS	OCCUPANCY SENSOR/WALL SWITCH (SUBSCRIPT INDICATES TYPE)	MOUNT AT 48" AFF, UNO
OS	OCCUPANCY SENSOR (SUBSCRIPT INDICATES TYPE)	CEILING MOUNTED
PC	PHOTOCELL	
TC	TIME CLOCK	
	SITE LIGHT FIXTURE	POLE MOUNTED

FIRE ALARM

SYMBOL	DESCRIPTION	REMARKS
FACP	FIRE ALARM CONTROL PANEL	
FAAP	FIRE ALARM REMOTE ANNUNCIATOR	
S	SMOKE DETECTOR	
S_S	SMOKE DETECTOR WITH SOUNDER BASE	
S_V	SMOKE DETECTOR WITH VISUAL BASE	
H	HEAT DETECTOR	
D	DUCT SMOKE DETECTOR	
F	MANUAL PULL STATION	
F	STROBE NOTIFICATION DEVICE	
F	COMBINATION HORN/STROBE NOTIFICATION DEVICE	
F	HORN NOTIFICATION DEVICE	
DH	DOOR HOLD-OPEN DEVICE	
FS	WATER FLOW DETECTION SWITCH	
TS	TAMPER SWITCH	
CM	CONTROL MODULE	
MM	MONITOR MODULE	
SD	SMOKE DAMPER	
PS	PRESSURE SWITCH	
C	CARBON MONOXIDE DETECTOR	
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL	
KNO	KNOX BOX	

BRANCH CIRCUIT NOTES

1. CIRCUIT NUMBERS ARE FOR REFERENCE ONLY AND INDICATE THE DEVICES REQUIRED TO BE CONNECTED TO DESIGNATED CIRCUITS.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND PROVIDING THE ACTUAL NUMBER OF CONDUCTORS REQUIRED FOR ALL BRANCH CIRCUIT WIRING TO SERVE THE INTENDED FUNCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY BALANCING LOADS ON ALL THREE PHASES.
4. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE GROUND WIRE.
5. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRAL WIRE.
6. ALL BRANCH CIRCUITS SHALL BE SIZED PER OVERCURRENT PROTECTION RATING AND NEC REQUIREMENTS (INCLUDING NEC CONDUCTOR AMPACITY TABLES, ARTICLE 334.80, AND 338.10(B)(4)).
7. PROVIDE ARC-FAULT CIRCUIT PROTECTION PER NEC ARTICLE 210.12.

GENERAL NOTES

1. THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THIS CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
2. ALL ELECTRICAL WORK SHOWN SHALL BE PROVIDED AS NEW UNLESS OTHERWISE NOTED.
3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWING IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS. BRANCH CIRCUIT NUMBERS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE THE CIRCUIT NUMBERS AND PROVIDE A SCHEDULE IN PANEL IDENTIFYING BRANCH CIRCUITS.
4. JUNCTION AND PULL BOXES SHALL GENERALLY BE LOCATED FOR FLUSH MOUNTING IN FINISHED SPACES. WHERE NECESSARY, CONDUITS SHALL BE REROUTED OR OTHER ARRANGEMENTS MADE FOR CONCEALMENT. PULL BOXES SHALL BE PROVIDED AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS, PULL BOXES SHALL BE PROVIDED EVERY 100 FEET AND AS INDICATED OR NECESSARY.
5. BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. WALL AND SWITCH OUTLETS SHALL BE ERECTED IN ADVANCE OF FURRING AND FIREPROOFING. BOXES SHALL BE SECURED TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
6. IN EXISTING BUILDINGS, ALL REQUIRED ACCESS DOORS SHALL BE FURNISHED AND INSTALLED UNDER THE ELECTRICAL SECTION. ALL ACCESS DOOR LOCATIONS SHALL BE FIELD COORDINATED WITH THE OWNER.
7. NO ELECTRICAL RACEWAYS OR CONDUCTORS SHALL BE INSTALLED WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT FOR CROSSING WHERE RACEWAYS SHALL BE AT LEAST 1 INCH FROM PIPE COVER.
8. SUFFICIENTLY LONG WIRE SLACK SHALL BE LEFT IN RUNS TO ALLOW FOR MAKING PROPER FINAL CONNECTIONS. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH #12 AWG STEEL DRAG WIRES.
9. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL HVAC EQUIPMENT. (AC UNITS, FANS, VAV BOXES, ETC).
10. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING EQUIPMENT.
11. ALL WIRING SHALL BE ROUTED IN AN ORGANIZED AND NEAT MANNER.
12. SUBMIT DIMENSIONED LAYOUTS OF ALL ELECTRIC EQUIPMENT WITH EQUIPMENT SUBMITTALS.
13. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL RACEWAYS RUNS WITH EXISTING CONDITIONS AND INCLUDE ALL PULLBOXES, OFFSETS, CUTTING, PATCHING, PAINTING TO MATCH EXISTING, SUPPORTS, ETC. AS REQUIRED.
14. THE ROUTING AND LOCATION OF CONDUIT RUNS ARE GENERALLY NOT DIMENSIONAL ON THE DRAWINGS BUT SHALL BE DETERMINED IN THE FIELD TO SUIT THE LOCATIONS OF EQUIPMENT, TO CONFORM TO STRUCTURAL AND ARCHITECTURAL FEATURES AND TO AVOID INTERFERENCES.
15. ALL CUTTING AND RESTORATION OF SLAB AND FLOOR SHALL BE IN ACCORDANCE WITH STRUCTURAL ENGINEER'S REQUIREMENTS AND AS APPROVED BY ENGINEER.
16. ELECTRICAL CONTRACTOR SHALL VERIFY ALL PENETRATIONS, POKE THRUS, AND EXISTING CONDUIT LOCATIONS PRIOR TO MODIFICATION.
17. ALL SIGHT EXPOSED ELECTRICAL DEVICES SHALL BE LOCATED AS PER ARCHITECT'S DRAWINGS AND/OR DIRECTION.
18. WHERE CONDUIT OR JUNCTION BOXES ARE RUN IN SLAB, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, AND RESTORATION OF SLAB AND FLOOR.
19. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LIGHT FIXTURES, REMOTE BALLASTS AND ASSOCIATED WIRING, SUPPORTS, HARDWARE, AND ACCESSORIES AS REQUIRED.
20. SYMBOLS AND LEGENDS SHOWN ON THIS DRAWING ARE FOR ELECTRICAL DRAWINGS ONLY. SEE ARCHITECTURAL DRAWINGS AND TRADE DRAWINGS FOR RESPECTIVE SYMBOLS AND LEGENDS.
21. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SLAB CUTS, FOUNDATION WALL PENETRATIONS, WALL OPENINGS, CORE DRILLING, ROOF PENETRATIONS, ETC. AND PATCHING AS REQUIRED TO PROVIDE ALL ELECTRICAL WORK. FOR FOUNDATION WALL PENETRATIONS PROVIDE 4"X4"X3/8" WELDED STEEL ANGLE BY THE CONTRACTOR AND APPROVED BY THE STRUCTURAL ENGINEER AND PROVIDE WATER PROOFING . ALL ROOF, TUNNEL AND FOUNDATION PENETRATIONS SHALL BE WATER PROOFED. COORDINATE WORK SO AS TO MAINTAIN ANY AND ALL WARRANTIES FOR ROOF SYSTEMS, FOUNDATIONS, ETC.
22. ALL TELEPHONE/DATA RACEWAYS SHALL BE PROVIDED WITH INSULATED END BUSHINGS.
23. SEPARATE RACEWAYS SHALL BE PROVIDED FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS.
24. HORIZONTAL OR CROSS RUNS IN PARTITIONS OR WALLS ARE NOT PERMITTED.
25. THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL MORE THAN THE NUMBER OF CIRCUITS SHOWN IN ANY HOMERUN CIRCUIT.
26. CONTRACTOR TO PROVIDE FIRE PROOFING AT ALL PENETRATIONS OF RATED PARTITIONS, FLOORS, AND WHERE THE EXISTING FIRE PROOFING WAS REMOVED TO EXPOSE EXISTING STEEL FOR NEW HANGER INSTALLATION. REFER TO SPECIFICATION SECTION FIRE PROOFING.
27. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCH ON SIDE OPPOSITE HINGE (VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION).
28. EXACT LOCATION OF LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLAN OR AS DIRECTED BY THE ARCHITECT.
29. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CEILING WORK WITH CEILING CONTRACTOR AND DETERMINE CEILING TYPE PRIOR TO THE PURCHASING AND INSTALLATION OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS, EXIT LIGHTS, OR ANY OTHER CEILING MOUNTED ELECTRICAL ELEMENTS. THE ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ALL ELECTRICAL WORK WITH LOCATION OF DIFFUSERS AND SPRINKLERS AND OTHER MECHANICAL WORK.
30. EXACT LOCATION AND MOUNTING OF LIGHTING FIXTURES IN MECHANICAL AREAS SHALL BE COORDINATED WITH THE MECHANICAL TRADES TO AVOID CONFLICT WITH PIPING, DUCTS AND EQUIPMENT. IN GENERAL, THE FINAL LOCATION OF LIGHTING FIXTURES SHALL BE GOVERNED BY THE NEED OF TASK LIGHTING IN THE VICINITY OF PANEL BOARDS, MOTOR CONTROLS, CONTROL AND INSTRUMENT PANELS AND GAUGES.
31. LOCATIONS OF OUTLETS AND SWITCHES IN FINISHED ROOMS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIMS, PANELING, SUSPENDED CEILINGS AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER.
32. ALL RACEWAYS, WIRING, AND ASSOCIATED ELECTRICAL EQUIPMENT SHALL BE ROUTED CONCEALED EXCEPT IN UNFINISHED AREAS.
33. ALL EQUIPMENT, MATERIALS, ETC. SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL. REFER TO SPECIFICATIONS FOR ADDITIONAL ACTION SUBMITTAL AND SHOP DRAWING REQUIREMENTS.
34. PRIOR TO CONSTRUCTION, COORDINATE WITH LOCAL AHJ THE UL CONDITIONAL LISTING REQUIREMENTS FOR ALL JUNCTIONS BOXES UTILIZED IN RATED WALLS AND CEILINGS.
35. WHERE CONFLICTS EXIST BETWEEN THE INFORMATION INCLUDED IN THESE DRAWINGS OR BETWEEN INFORMATION PROVIDED IN THESE DRAWINGS AND THE PROJECT SPECIFICATIONS OR WITHIN THE PROJECT SPECIFICATIONS, THE MORE STRINGENT AND/OR HIGHEST COST REQUIREMENTS SHALL APPLY. SHOULD THE CONTRACTOR REQUIRE FURTHER CLARIFICATION, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION. WHERE CONFLICTS DO EXIST, THE PROJECT ENGINEER OF RECORD SHALL HAVE THE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETATION OF INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED AND THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.
36. ALL VALUE ENGINEERING OR DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE DESIGN TEAM FOR APPROVAL. ANY COST INCURRED AS A RESULT OF ANY DEVIATIONS FROM THE BASIS OF DESIGN INDICATED IN THE CONTRACT DOCUMENTS (E.G. ELECTRICAL MODIFICATIONS TO ACCOMMODATE ALTERNATE EQUIPMENT SELECTIONS, DESIGN RELATED EXPENSES FOR REQUIRED DRAWING MODIFICATIONS, ETC)SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NO INCREASE IN CONTRACT COST WILL BE GRANTED UNLESS BORNE BY AND APPROVED IN WRITING BY THE OWNER CONTRACT DOCUMENTS ARE DEFINED TO INCLUDE ALL DISCIPLINES AND DIVISIONS OF THE CONTRACT.

ABBREVIATIONS

A	AMPERE(S)	KAIC	1000 AMPERE INTERRUPTING CAPACITY
AC	ALTERNATING CURRENT		
ADA	AMERICANS WITH DISABILITIES ACT	KCMIL	1000 CIRCULAR MIL(S)
AFCI	ARC-FAULT CIRCUIT INTERRUPTER	KVA	KILOVOLT AMPERE(S)
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT(S)
AFG	ABOVE FINISHED GRADE	LTG	LIGHTING
AHJ	AUTHORITY HAVING JURISDICTION	MC	MECHANICAL CONTRACTOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MCA	MINIMUM CIRCUIT AMPACITY
		MCB	MAIN CIRCUIT BREAKER
ATS	AUTOMATIC TRANSFER SWITCH	MIC	MICROWAVE
AWG	AMERICAN WIRE GUAGE	MISC	MISCELLANEOUS
BLDG	BUILDING	MIN	MINIMUM
C	CONDUIT	MFR	MANUFACTURER
CB/CKT BKR	CIRCUIT BREAKER	MH	MOUNTING HEIGHT
CL	CLOSET	MTD	MOUNTED
CLG	CEILING	N	NEUTRAL
CKT	CIRCUIT	NC	NORMALLY CLOSED
CO	CONDUIT ONLY	NEC	NATIONAL ELECTRIC CODE
CONC	CONCRETE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
COND	CONDUCTOR		
CONST	CONSTRUCTION	NL	NIGHT LIGHT
CONT	CONTRACT	NO	NORMALLY OPEN
CP	CONTROL PANEL	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER	P	POLE
CU	COPPER	PB	PULL BOX
DED	DEDICATED	PC	PLUMBING CONTRACTOR
DISC	DISCONNECT	PH/Ø	PHASE
DISH	DISHWASHER	PL	PLUG LOAD
DISP	DISPOSAL	PNL	PANEL
DIV	DIVISION	PRI	PRIMARY
DT	DUAL TECHNOLOGY (IR/US)	PWR	POWER
DWG	DRAWING	QTY	QUANTITY
EA	EACH	REC/RECEPT	RECEPTACLE
EC	ELECTRICAL CONTRACTOR	REF	REFRIGERATOR
ELEC	ELECTRIC	SEC	SECONDARY
EM/EMER	EMERGENCY	SPEC	SPECIFICATION
EX/EXIST	EXISTING	SW	SWITCH
F	FUSE	TEL	TELEPHONE
FA	FIRE ALARM	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FBO	FURNISHED BY OTHERS		
FDR	FEEDER	TYP	TYPICAL
FL	FLOOR	UG	UNDERGROUND
FLA	FULL LOAD AMPS	UL	UNDERWRITER'S LABORATORIES
FLUOR	FLUORESCENT	UNO	UNLESS NOTED OTHERWISE
FT	FEET	UON	UNLESS OTHERWISE NOTED
G/GND	GROUND	UPS	UNINTERRUPTIBLE POWER SUPPLY
GC	GENERAL CONTRACTOR	US	ULTRASONIC
GFI	GROUND FAULT INTERRUPTER	UV	ULTRAVIOLET
HC	HUNG CEILING	V	VOLT(S)
HOA	HAND-OFF-AUTO SELECTOR SWITCH	VA	VOLTAMPERE(S)
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
IR	INFRARED	W	WATT(S)
JB	JUNCTION BOX	WP	WEATHERPROOF

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PROJECT

7-ELEVEN 42655
CST

1360 NC 24-87, CAMERON NC 28326

DWG. TITLE

GENERAL NOTES, LEGEND, AND ABBREVIATIONS

ISSUE/ REVISIONS		
0	06/06/25	ISSUE FOR BID AND PERMIT
DATE		DESCRIPTION

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6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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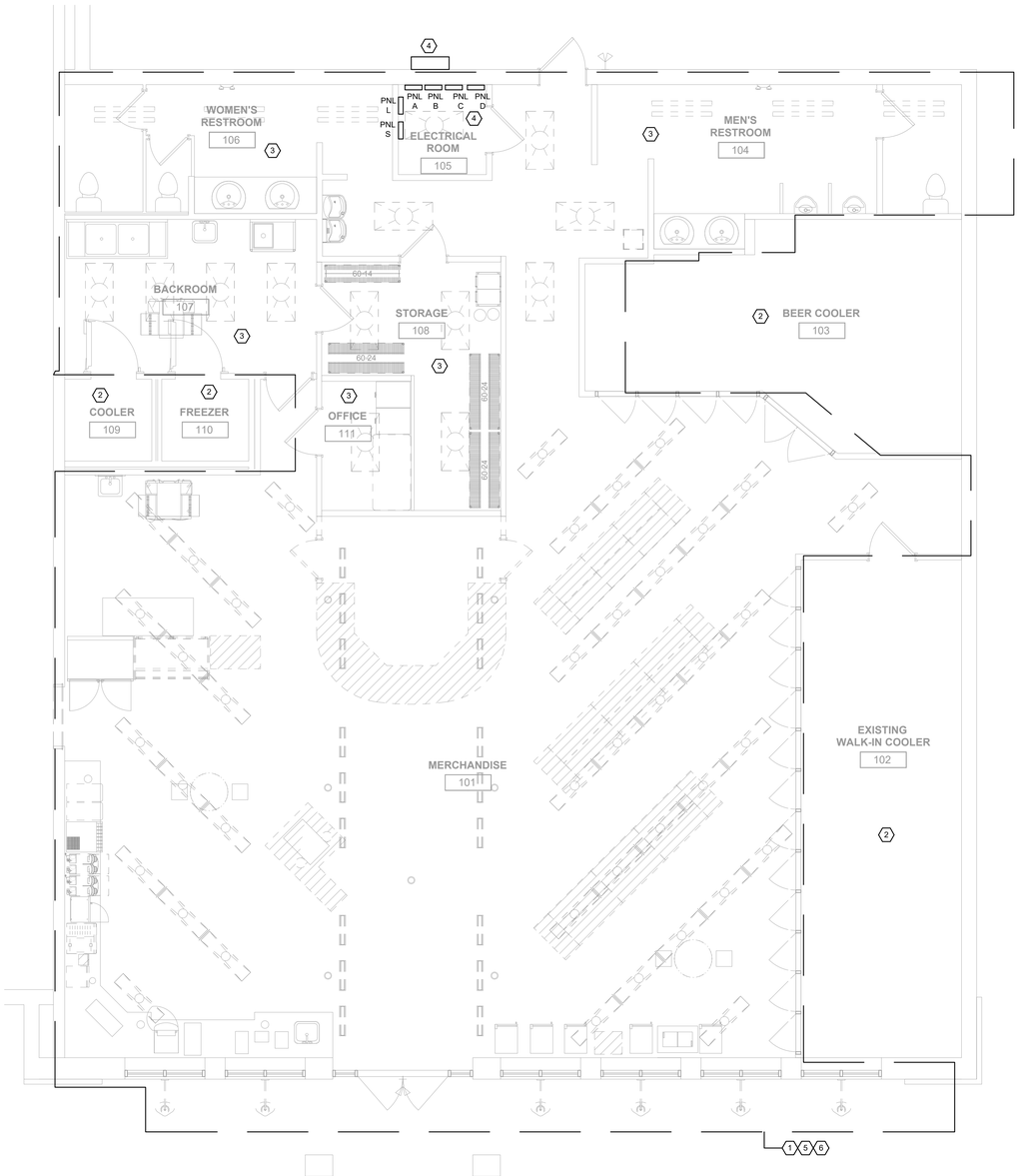

1 ELECTRICAL DEMOLITION PLAN
Scale: 1/4"=1'

DEMO KEYED NOTES

1. ALL DEVICES IN THE DEMOLISHED WALLS AND REMOVED EQUIPMENT DEVICES/CONNECTIONS SHALL BE DISCONNECTED AND REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED. ALL DEVICES ON WALLS NOT TO BE DEMOLISHED SHALL BE REUSED WHEN POSSIBLE. 'EX' DENOTES EXISTING TO REMAIN.
2. ALL EXISTING COOLER AND FREEZER EQUIPMENT ARE TO REMAIN, INCLUDING ROOF MOUNTED EQUIPMENT.
3. ELECTRICAL DEVICES IN ROOM ARE EXISTING TO REMAIN.
4. EXISTING ELECTRICAL PANELS TO REMAIN. REFER TO ONE-LINE FOR MORE INFORMATION.
5. CONTRACTOR SHALL PROTECT ALL EXISTING SLAB RUN CONDUITS, EXISTING CEILING DROPS AND BRANCH CIRCUITS ARE PROTECTED DURING DEMOLITION FOR REUSE IS POSSIBLE.
6. EXISTING LIGHTING FIXTURES SHALL BE DISCONNECTED AND REMOVED. SAFE-OFF BRANCH CIRCUITS, SWITCH LEGS AND CONTROLS FOR REUSE, WHERE REQUIRED.

NOTES:

1. REFER TO DWG. E0.1 FOR SYMBOL LIST, NOTES AND ABBREVIATIONS.
2. 'EX' DENOTES EXISTING TO REMAIN. 'ED' DENOTES EXISTING TO BE REMOVED.
3. EXISTING RTU HVAC SYSTEMS ARE TO REMAIN. EXISTING FEEDERS AND CIRCUIT BREAKERS SHALL REMAIN.

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7-ELEVEN 42655
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1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

ELECTRICAL DEMOLITION FLOOR PLAN

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1 ELECTRICAL FLOOR PLAN

Scale: 1/4"=1'

KEYED NOTES

1. EXISTING ELECTRICAL PANELS TO REMAIN. REFER TO ONE-LINE FOR MORE INFORMATION.
2. NEW DEVICES AND EQUIPMENT SHALL BE CONNECTED TO EXISTING BRANCH CIRCUITS CREATED DEMOLITION IN THE EXISTING ELECTRICAL PANELS. CIRCUIT NUMBERS IN PANEL 'X' ARE FOR REFERENCE ONLY AND SHALL BE COORDINATED IN THE FIELD.
3. CONTRACTOR SHALL PROTECT ALL EXISTING SLAB RUN CONDUITS. EXISTING CEILING DROPS AND BRANCH CIRCUITS ARE PROTECTED DURING DEMOLITION FOR REUSE IS POSSIBLE.
4. COORDINATE FINAL EQUIPMENT LOCATIONS IN FIELD.
5. CONTRACTOR SHALL REUSE EXISTING RECEPTACLES AND BRANCH CIRCUITS WERE POSSIBLE, INCLUDING THE BACK OF HOUSE SPACES.
6. REMOTE CONDENSER LOCATED ON GRADE. COORDINATE WITH MECHANICAL CONTRACTOR.

GENERAL NOTES

THE INTENT OF THE PROJECT IS AN ALTERATION TO REPLACE EXISTING LIGHTING FIXTURES, EQUIPMENT AND DEVICES IN A LIMITED AREA OF THE BUILDING AND TO REUSE EXISTING BRANCH CIRCUITS IN THE AREA WHERE POSSIBLE.

NO ADDITIONAL LIGHTING OR DEVICE ELECTRICAL LOAD IS EXPECTED BE ADDED TO THE EXISTING BRANCH CIRCUITS.

LIGHTING FIXTURES ARE TO BE SELECTED BY OWNER/ARCHITECT.

NOTES:

1. REFER TO DWG. E0.1 FOR SYMBOL LIST, NOTES AND ABBREVIATIONS.
2. NEW DEVICES AND EQUIPMENT SHALL BE CONNECTED TO EXISTING BRANCH CIRCUITS CREATED DEMOLITION IN THE EXISTING ELECTRICAL PANELS. CIRCUIT NUMBERS IN PANEL 'X' ARE FOR REFERENCE ONLY AND SHALL BE COORDINATED IN THE FIELD.
3. REFER TO E1.2 AND E1.3 FOR ONE LINE DIAGRAM AND SCHEDULES.
4. EXISTING HVAC SYSTEMS ARE TO REMAIN. EXISTING FEEDERS AND CIRCUIT BREAKERS SHALL REMAIN.
5. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION AND MOUNTED OF DEVICES.
6. CONTRACTOR SHALL CONFIRM REQUIRED CONNECTIONS AND DEVICES FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL CONFIRM QUANTITIES AND EXACT LOCATIONS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
8. CONTRACTOR SHALL PROTECT ALL EXISTING SLAB RUN CONDUITS, EXISTING CEILING DROPS AND BRANCH CIRCUITS ARE PROTECTED DURING DEMOLITION FOR REUSE IS POSSIBLE.
9. ALL RECEPTACLES SHALL BE GFI PROTECTED WHERE REQUIRED BY NEC 210.
10. ALL EQUIPMENT CONNECTIONS AND EQUIPMENT RECEPTACLES SHALL BE GFI PROTECTED WHERE REQUIRED.

REFRIGERATION REMOTE CONDENSING UNIT SCHEDULE

TAG	QTY	ORACLE	MFR	MODEL	SUPPLIER	SUPPLIER PART NUMBER	SERVICE	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	WEIGHT (LBS)	FURNISH BY	INSTALL BY
CU-2	1	03309780	FBD	FBD-DRC	FBD PARTNERSHIP LP	-	DUAL CIRCUIT SLURPEE	208/2	2.2	15	143	TURNKEY	GC
CU-3	1	03309784	FBD	FBD-SRC	FBD PARTNERSHIP LP	-	FROZEN LEMONADE	208/2	1.8	15	105	TURNKEY	GC
CU-4	1	03164149	HOSHIZAKI	URC-5F	HOSHIZAKI	-	ICE MAKER	120/1	--	--	60	TURNKEY	GC
CU-5	1	TBD	BOHN	TBD	HEATCRAFT	-	1-DOOR MERCHANDISER	208/2	20	20	169	TURNKEY	GC
CU-6	1	00133388	BOHN	BZT01NM8F	HEATCRAFT	-	4' DISPLAY CASE	208-230/1	38	40	209	TURNKEY	GC
CU-7	1	TBD	BOHN	TBD	HEATCRAFT	-	8' DISPLAY CASE	208-230/1	38	40	209	TURNKEY	GC

NOTES:
1. CONTRACTOR TO VERIFY ALL EQUIPMENT WITH LATEST 7-11 STANDARDS AND 7-11 EQUIPMENT REPRESENTATIVES AND MECHANICAL CONTRACTOR
2. FIELD COORDINATE LOCATIONS OF CONDENSERS WITH MECHANICAL CONTRACTOR.

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PROJECT

7-ELEVEN 42655
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1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

ELECTRICAL FLOOR PLAN

ISSUE/ REVISIONS

DATE	DESCRIPTION
0 06/06/25	ISSUE FOR BID AND PERMIT

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6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO, JR

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PANELBOARD EXIST. A SCHEDULE

VOLTAGE: 208Y/120V
PHASE: 3Φ WIRE: 4W
AIC RATING: EXISTING
BUS RATING: 225A
MAIN BREAKER: 200A MCB
NEUTRAL SIZE: 100%
LOCATION: ON PLAN
MOUNTING: SURFACE
ISO. GROUND: N SPD: N

NOTE	TYPE	LOAD	DESCRIPTION	BRANCH C/B	BRANCH P	CIRCUIT #	CIRCUIT Φ	CIRCUIT #	BRANCH C/B	BRANCH P	DESCRIPTION	LOAD	TYPE	NOTE
	L	200	EXISTING DRINK COOLER LTG	20	1	1	A	2	30	3	EXISTING SURGE PROTECTOR			
	R	200	EXISTING COOLER EVAP	20	1	3	B	4	.	-				
			EXISTING SPARE	20	1	5	C	6	.	-				
	R	400	EXISTING DRINK COOLER HEAT	20	1	7	A	8	20	1	EXISTING SPARE			
	R	1000	EXISTING MENS WATER HEATER	20	1	9	B	10	20	1	EXISTING SPARE			
	L	300	EXISTING EXIT SIGNS	20	1	11	C	12	20	1	EXISTING NEON	540	L	
	L	200	EXISTING REST ROOM LTG	20	1	13	A	14	20	1	EXISTING TMS POWER	200	R	
	R	300	EXISTING HEAT TAPE RECEPT	20	1	15	B	16	20	1	EXISTING LOAD	400	R	
	R	180	EXISTING BEER COOLER RECEPT	20	1	17	C	18	50	3	EXISTING QUIZNOS TOASTER	360	R	
	L	200	EXISTING BEER COOLER LTG	20	1	19	A	20	.	-	OVEN	4800	R	
	R	300	EXISTING BEER COOL DR HEAT	20	1	21	B	22	.	-		4800	R	
	R	600	EXISTING AIR MACHINE	20	1	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						

	TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)
R	RECEPTACLES ≤ 10KVA	10000	1.00	10000
	RECEPTACLES > 10KVA	7980	0.50	3990
L	LIGHTING	1200	1.25	1500
M	LARGEST MOTOR	-	1.25	-
	REMAINING MOTORS	-	1.00	-
H	HEATING (RESISTIVE)	-	1.25	-
E	EQUIPMENT	-	1.00	-
K	KITCHEN EQUIPMENT	-	1.00	-
	TOTAL	19180		15490

PHASE A LOAD =	6000	VA
PHASE B LOAD =	7000	VA
PHASE C LOAD =	6180	VA

NEC DEMAND LOAD =	43	A
SPARE CAPACITY =	157	A
TOTAL AVAILABLE =	200	A

NOTES: 1 NEW REQUIRED BRANCH CIRCUITS SHALL BE INSTALLED IN SPACES CREATED DURING DEMOLITION.

PANELBOARD EXIST. B SCHEDULE

VOLTAGE: 208Y/120V
PHASE: 3Φ WIRE: 4W
AIC RATING: EXISTING
BUS RATING: 225A
MAIN BREAKER: 200A MCB
NEUTRAL SIZE: 100%
LOCATION: ON PLAN
MOUNTING: SURFACE
ISO. GROUND: N SPD: N

NOTE	TYPE	LOAD	DESCRIPTION	BRANCH C/B	BRANCH P	CIRCUIT #	CIRCUIT Φ	CIRCUIT #	BRANCH C/B	BRANCH P	DESCRIPTION	LOAD	TYPE	NOTE
	R	1600	EXISTING COFFEE RECEPT	20	2	1	A	2	80	3	EXISTING HVAC #1	5700	E	
	R	1600		.	-	3	B	4	.	-		5700	E	
	R	1500	EXISTING DRINK RECEPT	20	2	5	C	6	.	-		5700	E	
	R	1500		.	-	7	A	8	20	1	EXISTING HALLWAY RECEPT	180	R	
	R	400	EXISTING DRINK RECEPT	20	1	9	B	10	20	1	EXISTING DSL RECEPT	200	R	
	R	400	EXISTING DRINK RECEPT	20	1	11	C	12	20	1	EXISTING DSL RECEPT	540	R	
	R	360	EXISTING LEFT FRONT GFI	20	1	13	A	14	20	1	EXISTING RECEPTACLE	180	R	
	R	600	EXISTING ATM RECEPTACLE	20	1	15	B	16	20	1	EXISTING FLOOR BOX RECEPT.	400	R	
	R	180	EXISTING LEFT FRONT GFI	20	1	17	C	18	20	1	EXISTING FLOOR BOX RECEPT.	360	R	
	R	180	EXISTING LEFT FT WALL REC	20	1	19	A	20	20	2	EXISTING QUIZNOS COOLER	1500	R	
	R	180	EXISTING COUNTER PLUG	20	1	21	B	22	.	-	CONDENSER	1500	R	
	R	180	EXISTING COUNTER PLUG	20	1	23	C	24	30	2	EXISTING QUIZNOS FREEZER	1800	R	
	R	360	EXISTING GONDOLA RECEPT	20	1	25	A	26	.	-	CONDENSER	1800	R	
	R	360	EXISTING GONDOLA RECEPT	20	1	27	B	28	20	1	EXISTING CASH COUNTER	400	R	
	R	360	EXISTING GONDOLA RECEPT	20	1	29	C	30	20	1	EXISTING LOTTERY	300	R	
	R	360	EXISTING GONDOLA RECEPT	20	1	31	A	32	20	1	EXISTING COUNTER REC	400	R	
	R	180	EXISTING SAFE	20	1	33	B	34	20	1	EXISTING COUNTER REC	400	R	
	R	400	EXISTING CASH COUNTER	20	1	35	C	36						
						37	A	38						
						39	B	40						
						41	C	42						

	TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)
R	RECEPTACLES ≤ 10KVA	10000	1.00	10000
	RECEPTACLES > 10KVA	10360	0.50	5180
L	LIGHTING	-	1.25	-
M	LARGEST MOTOR	-	1.25	-
	REMAINING MOTORS	-	1.00	-
H	HEATING (RESISTIVE)	-	1.25	-
E	EQUIPMENT	17100	1.00	17100
K	KITCHEN EQUIPMENT	-	1.00	-
	TOTAL	37460		32280

PHASE A LOAD =	14120	VA
PHASE B LOAD =	11920	VA
PHASE C LOAD =	11420	VA

NEC DEMAND LOAD =	90	A
SPARE CAPACITY =	110	A
TOTAL AVAILABLE =	200	A

NOTES: 1 NEW REQUIRED BRANCH CIRCUITS SHALL BE INSTALLED IN SPACES CREATED DURING DEMOLITION.

PANELBOARD EXIST. C SCHEDULE

VOLTAGE: 208Y/120V
PHASE: 3Φ WIRE: 4W
AIC RATING: EXISTING
BUS RATING: 225A
MAIN BREAKER: 200A MCB
NEUTRAL SIZE: 100%
LOCATION: ON PLAN
MOUNTING: SURFACE
ISO. GROUND: N SPD: N

NOTE	TYPE	LOAD	DESCRIPTION	BRANCH C/B	BRANCH P	CIRCUIT #	CIRCUIT Φ	CIRCUIT #	BRANCH C/B	BRANCH P	DESCRIPTION	LOAD	TYPE	NOTE
	E	8600	EXISTING HVAC #2	90	3	1	A	2	50	2	EXISTING INSTAHOT	4100	E	
	E	8600		-	-	3	B	4	-	-		4100	E	
	E	8600		-	-	5	C	6	20	1	EXISTING EXHAUST FAN	300	E	
	L	200	EXISTING WALK IN COOLER LTG	20	1	7	A	8	20	1	EXISTING DRINK RECEPT	400	R	
	R	200	EXISTING WALK IN COOL EVAP	20	1	9	B	10	20	1	EXISTING GENERAL RECEPT	360	R	
	R	300	EXISTING WALK IN COOL HEAT	20	1	11	C	12	20	1	EXISTING DRINK RECEPT	540	R	
	R	300	EXISTING WALK IN COOL FRAME	20	1	13	A	14	20	1	EXISTING ICE MACHINE	600	R	
	R	180	EXISTING CASH REGIST. RECEP	20	1	15	B	16	20	1	EXISTING GENERAL RECEPT	400	R	
	R	180	EXISTING COUNTER RECEPT	20	1	17	C	18	20	1	EXISTING HALLWAY RECEPT	360	R	
	R	180	EXISTING CASH REGIST. RECEP	20	1	19	A	20						
	R	180	EXISTING COUNTER RECEPT	20	1	21	B	22	20	1	EXISTING QUIZNOS COUNTER	360	R	
	R	400	EXISTING HOT BOX GFI	20	1	23	C	24	20	1	EXISTING QUIZNOS COUNTER	360	R	
						25	A	26	20	1	EXISTING QUIZNOS CASH	360	R	
						27	B	28	20	1	EXISTING QUIZNOS COUNTER	360	R	
						29	C	30						
						31	A	32	20	2	EXISTING SANDWICH BOX	1600	R	
						33	B	34	-	-		1600	R	
						35	C	36						
						37	A	38						
						39	B	40						
						41	C	42						

	TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)
R	RECEPTACLES ≤ 10KVA	9040	1.00	9040
	RECEPTACLES > 10KVA	-	0.50	-
L	LIGHTING	200	1.25	250
M	LARGEST MOTOR	-	1.25	-
	REMAINING MOTORS	-	1.00	-
H	HEATING (RESISTIVE)	-	1.25	-
E	EQUIPMENT	34300	1.00	34300
K	KITCHEN EQUIPMENT	-	1.00	-
	TOTAL	43540		43590

PHASE A LOAD =	16340	VA
PHASE B LOAD =	16300	VA
PHASE C LOAD =	10900	VA

NEC DEMAND LOAD =	121	A
SPARE CAPACITY =	79	A
TOTAL AVAILABLE =	200	A

NOTES: 1 NEW REQUIRED BRANCH CIRCUITS SHALL BE INSTALLED IN SPACES CREATED DURING DEMOLITION.

PANELBOARD EXIST. D SCHEDULE

VOLTAGE: 208Y/120V
PHASE: 3Φ WIRE: 4W
AIC RATING: EXISTING
BUS RATING: 225A
MAIN BREAKER: 200A MCB
NEUTRAL SIZE: 100%
LOCATION: ON PLAN
MOUNTING: SURFACE
ISO. GROUND: N SPD: N

NOTE	TYPE	LOAD	DESCRIPTION	BRANCH C/B	BRANCH P	CIRCUIT #	CIRCUIT Φ	CIRCUIT #	BRANCH C/B	BRANCH P	DESCRIPTION	LOAD	TYPE	NOTE
	E	2800	EXISTING BEER CAVE CONDEN.	30	3	1	A	2	30	3	EXISTING DRINK CONDEN.	2800	E	
	E	2800		-	-	3	B	4	-	-		2800	E	
	E	2800		-	-	5	C	6	-	-		2800	E	
	L	300	EXISTING PANEL ROOM LTG	20	1	7	A	8	20	1	EXISTING STOR/OFFICE LTG	300	L	
	R	360	EXISTING REST./OUTSIDE GFI	20	1	9	B	10	20	1	EXISTING STOR/OFFICE REC	400	R	
	R	200	EXISTING WATER FOUNTAIN GFI	20	1	11	C	12	20	1	EXISTING WOMENS WH	540	R	
	R	800	EXISTING WATER HEATER	20	1	13	A	14	20	1	EXISTING WH	600	R	
	R	400	EXISTING DRINK COUNTER REC	20	1	15	B	16	20	1	EXISTING QUIZNOS REC	400	R	
	R	400	EXISTING DRINK COUNTER REC	20	1	17	C	18	20	1	EXISTING QUIZNOS REC	360	R	
	R	400	EXISTING DRINK COUNTER REC	20	1	19	A	20	20	1	EXISTING QUIZNOS REC	400	R	
	R	400	EXISTING DRINK COUNTER REC	20	1	21	B	22	20	1	EXISTING QUIZNOS REC	400	R	
	R	400	EXISTING DRINK COUNTER REC	20	1	23	C	24	30	2	EXISTING INSTAHOT	1600	E	
	R	400	EXISTING DRINK COUNTER REC	20	1	25	A	26	-	-		1600	E	
	R	400	EXISTING DRINK COUNTER REC	20	1	27	B	28	30	3	EXISTING REACH IN BEER	2800	E	
	R	400	EXISTING FLY FAN	20	1	29	C	30	-	-	COOLER CONDENSER	2800	E	
	E	1600	EXISTING COFFEE MACHINE	30	2	31	A	32	-	-		2800	E	
	E	1600		-	-	33	B	34						
						35	C	36						
						37	A	38						
						39	B	40						
						41	C	42						

	TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)
R	RECEPTACLES ≤ 10KVA	7760	1.00	7760
	RECEPTACLES > 10KVA	-	0.50	-
L	LIGHTING	600	1.25	750
M	LARGEST MOTOR	-	1.25	-
	REMAINING MOTORS	-	1.00	-
H	HEATING (RESISTIVE)	-	1.25	-
E	EQUIPMENT	31600	1.00	31600
K	KITCHEN EQUIPMENT	-	1.00	-
	TOTAL	39960		40110

PHASE A LOAD =	14800	VA
PHASE B LOAD =	12760	VA
PHASE C LOAD =	12400	VA

NEC DEMAND LOAD =	111	A
SPARE CAPACITY =	89	A
TOTAL AVAILABLE =	200	A

NOTES: 1 NEW REQUIRED BRANCH CIRCUITS SHALL BE INSTALLED IN SPACES CREATED DURING DEMOLITION.

PANELBOARD EXIST. L SCHEDULE

VOLTAGE: 208Y/120V
PHASE: 3Φ WIRE: 4W
AIC RATING: EXISTING
BUS RATING: 225A
MAIN BREAKER: 200A MCB
NEUTRAL SIZE: 100%
LOCATION: ON PLAN
MOUNTING: SURFACE
ISO. GROUND: N SPD: N

NOTE	TYPE	LOAD	DESCRIPTION	BRANCH C/B	BRANCH P	CIRCUIT #	CIRCUIT Φ	CIRCUIT #	BRANCH C/B	BRANCH P	DESCRIPTION	LOAD	TYPE	NOTE
	R	9500	EXISTING GAS PANEL	100	3	1	A	2	20	1	EXISTING STORE LTG	400	L	
	R	9500		-	-	3	B	4	20	1	EXISTING STORE LTG	400	L	
	R	9500		-	-	5	C	6	20	1	EXISTING RECESSED & TRACK	400	L	
	L	400	EXISTING STORE LTG	20	1	7	A	8	20	2	EXISTING CANOPY LTG	1200	L	
	L	200	EXISTING BUILDING SIGN	20	1	9	B	10	-	-		1200	L	
	L	400	EXISTING STORE LTG	20	1	11	C	12	20	2	EXISTING CANOPY LTG	540	L	
	L	1200	EXISTING CANOPY SIGN	20	2	13	A	14	-	-		1200	L	
	L	1200		-	-	15	B	16	20	1	EXISTING WALL PACK	400	L	
	L	1200	EXISTING CANOPY SIGN	20	2	17	C	18	20	1	EXISTING AWNING LTG	360	R	
	L	1200		-	-	19	A	20	30	3	EXISTING SURGE PROTECTOR			
	L	200	EXISTING LIGHTING CONTACTOR	20	1	21	B	22	-	-				
	L	1200	EXISTING AREA LIGHTS	20	2	23	C	24	-	-				
	L	1200		-	-	25	A	26	20	2	EXISTING AREA LIGHTS	1200	L	
	L	1200	EXISTING AREA LIGHTS	20	2	27	B	28	-	-		1200	L	
	L	1200		-	-	29	C	30	20	1	EXISTING FLAG POLE	400	L	
	L	400	EXISTING ROAD SIGN	20	1	31	A	32	20	1	EXISTING ROAD SIGN LTG	400	L	
						33	B	34						
						35	C	36						
						37	A	38						
						39	B	40						
						41	C	42						

	TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)
R	RECEPTACLES ≤ 10KVA	10000	1.00	10000
	RECEPTACLES > 10KVA	18500	0.50	9250
L	LIGHTING	21200	1.25	26500
M	LARGEST MOTOR	-	1.25	-
	REMAINING MOTORS	-	1.00	-
H	HEATING (RESISTIVE)	-	1.25	-
E	EQUIPMENT	-	1.00	-
K	KITCHEN EQUIPMENT	-	1.00	-
	TOTAL	49700		45750

PHASE A LOAD =	18300	VA
PHASE B LOAD =	15500	VA
PHASE C LOAD =	15900	VA

NEC DEMAND LOAD =	127	A
SPARE CAPACITY =	73	A
TOTAL AVAILABLE =	200	A

NOTES: 1 NEW REQUIRED BRANCH CIRCUITS SHALL BE INSTALLED IN SPACES CREATED DURING DEMOLITION.

PANELBOARD X SCHEDULE

VOLTAGE: 208Y/120V
PHASE: 3Φ WIRE: 4W
AIC RATING:
BUS RATING:
MAIN BREAKER
NEUTRAL SIZE: 100%
LOCATION:
MOUNTING:
ISO. GROUND: N TVSS: N

NOTE	TYPE	LOAD	DESCRIPTION	BRANCH C/B	BRANCH P	CIRCUIT #	CIRCUIT Φ	CIRCUIT #	BRANCH C/B	BRANCH P	DESCRIPTION	LOAD	TYPE	NOTE
	R	1100	DISPLAY (45)	20	1	1	A	2	20	2	FROZEN BEVERAGE (172)	1440	E	
	R	800	DISPLAY CASE (339)	20	1	3	B	4	-	-		1400	E	
	E	800	REF (84.1)	20	1	5	C	6	20	1	DISPLAY CASE (653)		E	
	E	1800	CAPPUCCINO (77)	20	1	7	A	8	30	2	COFFEE MAKER (3022)	2250	E	
	E	480	REFRIGERATED LIQUID (89)	20	1	9	B	10	-	-		2250	E	
	E	700	COUNT. BEV (1177),ICE (3015)	20	1	11	C	12	20	1	DISPLAY CASE (652)	200	E	
	E	800	MILK (3020) FLAVOR (3021)	20	1	13	A	14	20	1	MENU BOARDS (1185)	1080	R	
	E	1750	COUNTER OVEN (82)	40	2	15	B	16	40	2	BUNN COFFEE (398)	3000	E	
	E	1750		-	-	17	C	18	-	-		3000	E	
	E	1750	COUNTER OVEN (82)	40	2	19	A	20	40	2	BUNN COFFEE (398)	3000	E	
	E	1750		-	-	21	B	22	-	-		3000	E	
	E	800	FRZER (83.1)	20	1	23	C	24	20	2	BEAN TO CUP (ITEM 124)	500	E	
	R	400	PRINTER (487)	20	1	25	A	26	-	-		500	E	
	R	600	SALES RECEPTACLES	20	1	27	B	28	20	1	ICEMAKER (105)	1836	E	
	E	1100	DISPLAY (45)	20	1	29	C	30	20	1	DRINK DISP (113), WATER (22)	1100	E	
	E	100	BUN WARMER (466)	20	2	31	A	32	20	1	DISPLAY (640)	800	E	
	E	100		-	-	33	B	34	20	1			E	
	R	850	MICROWAVE (65)	20	2	35	C	36	20	2	ROLLER GRILL (73)	1205	E	
	R	850		-	-	37	A	38	-	-		1205	E	
	R	800	CHEESE (74), CONDIMENT (360)	20	1	39	B	40	20	2	ROLLER GRILL (73)	1205	E	
	R	850	MICROWAVE (65)	20	2	41	C	42	-	-		1205	E	
	R	850		-	-	43	A	44	40	3	MULTICOOK (3041)	1000	E	
	E	800	NOVELTY FREEZER (913)	20	1	45	B	46	-	-		1000	E	
	R	720	GENERAL RECEPTACLES	20	1	47	C	48	-	-		1000	E	
				20	1	49	A	50	20	1	BAKERY CASE (3384)	500	E	
	E	1000	SLURPEE (3262)	30	2	51	B	52	20	1				
	E	1000		-	-	53	C	54	20	1	SALES RECEPTACLES	360	R	
	E	1000	SLURPEE (3263)	30	2	55	A	56	20	1	ATM	1000	R	
	E	1000		-	-	57	B	58	20	1	SWEETENER (700)	600	R	
	E	1000	REMOTE CONDENSER (CU-2)	15	2	59	C	60	20	2	REMOTE CONDENSER (CU-5)	1000	E	
	E	1000		-	-	61	A	62	-	-		1000	E	
	E	187	REMOTE CONDENSER (CU-3)	15	2	63	B	64	40	2	REMOTE CONDENSER (CU-6)	3952	E	
	E	1000		-	-	65	C	66	-	-		1000	E	
		1000				67	A	68	40	2	REMOTE CONDENSER (CU-7)	1000	E	
						69	B	70	-	-		3952	E	
		1000				71	C	72	40	2	BUNN COFFEE (398)		E	
		1000				73	A	74	-	-			E	
	E	800	FRZER (83.1)	20	1	75	B	76						
						77	C	78						

	TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)
R	RECEPTACLES ≤ 10KVA	6530	1.00	6530
	RECEPTACLES > 10KVA	-	0.50	-
L	LIGHTING	-	1.25	-
M	LARGEST MOTOR	-	1.25	-
	REMAINING MOTORS	-	1.00	-
H	HEATING (RESISTIVE)	-	1.25	-
E	EQUIPMENT	42776	1.00	42776
K	KITCHEN EQUIPMENT	-	1.00	-
	TOTAL	49306		49306

PHASE A LOAD =	17075	VA
PHASE B LOAD =	18971	VA
PHASE C LOAD =	14060	VA

NEC DEMAND LOAD	137	A
SPARE CAPACITY =	-137	A
TOTAL AVAILABLE =		A

NOTES: 1 PANEL IS FOR REFERENCE ONLY. ALL BRANCH CIRCUITS SHOWN SHALL BE CONNECTED TO EXISTING SPARES CREATEED IN THE EXISTING PANELBOARDS DURING DEMOLITION.

BRIAN D. LAUG, AIA NCARB
ARCHITECT

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443-250-6557

CONSULTANT
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PROJECT
7-ELEVEN 42655
CST
1360 NC 24-87, CAMERON NC 28326

DRG. TITLE
ELECTRICAL PANEL SCHEDULES

ISSUE/REVISIONS

	DATE	DESCRIPTION
0	06/06/25	ISSUE FOR BID AND PERMIT

SEAL
6/06/25
Docusigned by:
38E7250D67A549A...
NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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SCALE: 1/4" = 1'-0"	PROJECT No: JAL#25-008
DATE: 6/06/25	FILE NAME:

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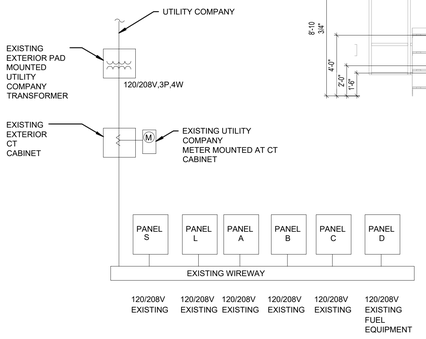
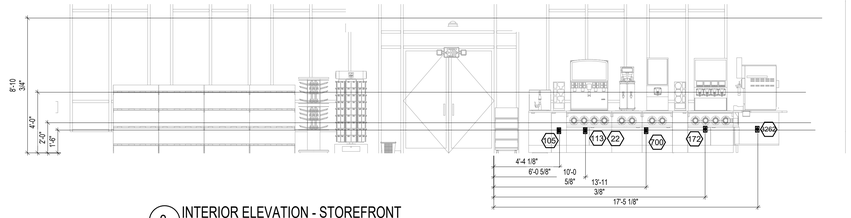


1 PARTIAL EXISTING ELECTRICAL SINGLE LINE DIAGRAM
N.T.S.



2 INTERIOR ELEVATION - STOREFRONT
3/8" = 1'-0"

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: 25-008 7-11 Cameron, NC
Project Type: Alteration

Construction Site: 1360 NC 24-87 CAMERON 28326
Owner/Agent:
Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Retail	4028	1.06	4270
		Total Allowed Watts =	4270

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)
Retail (4028 sq.ft.)				
LED RECESSED 2'X4': A3: Other:	1	3	36	108
LED RECESSED 1'X4': A4: Other:	1	40	32	1280
LED SURFACE 1'X'4: DS4: Other:	1	6	32	192
			Total Proposed Watts =	1580

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project 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 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date

Project Title: 25-008 7-11 Cameron, NC
Data filename:
Report date: 05/31/25
Page 1 of 5

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PROJECT

7-ELEVEN 42655
CST

1360 NC 24-87, CAMERON NC 28326

DWG. TITLE:

ELECTRICAL ONE-LINE AND DETAILS

ISSUE / REVISIONS:

NO.	DATE	DESCRIPTION
0	06/06/25	ISSUE FOR BID AND PERMIT

SEAL:

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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JAL	JAL
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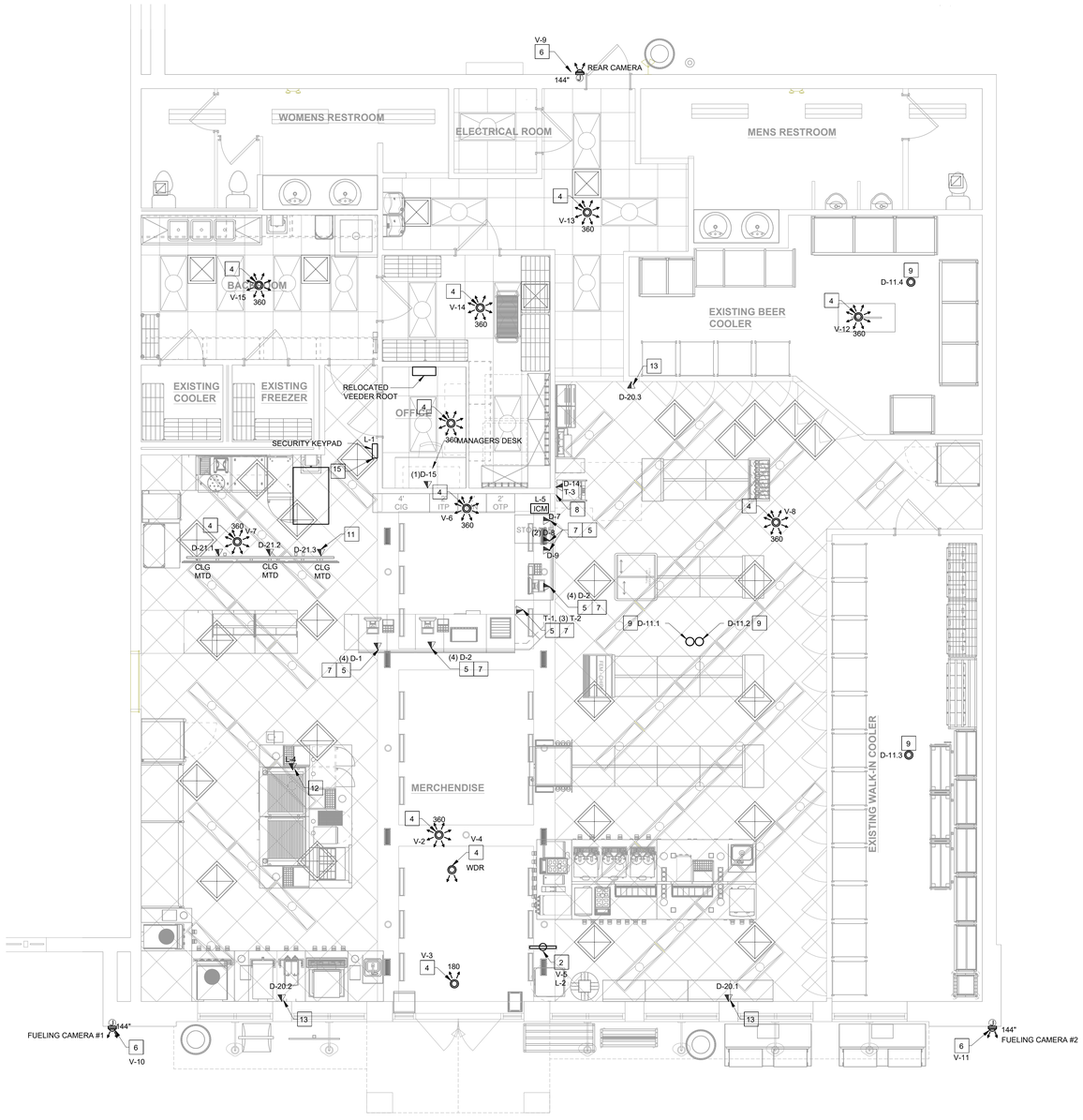

1 LOW VOLTAGE FLOOR PLAN
Scale: 1/4"=1'

KEYNOTES	
1	ROUTE DATA CABLE TO EMS ENCLOSURE (REF. LOW VOLTAGE WIRING TABLE). ENCLOSURE AND EMS CONTROLS BY EMS VENDOR.
2	ROUTE DATA CABLE(S) TO PVM LOCATION SHOWN (REF. LOW VOLTAGE WIRING TABLE). EXACT PLACEMENT OF PVM TO BE DETERMINED BY SECURITY CONTRACTOR AT TIME OF INSTALL.
3	TELECOM DEMARC WITH (1) #6 CU. GROUND PER TELE. CO. REQUIREMENTS. REF 1/E1.5.
4	ROUTE DATA CABLE(S) TO CAMERA LOCATION SHOWN (REF. LOW VOLTAGE WIRING TABLE). EXACT PLACEMENT OF CAMERA TO BE DETERMINED BY SECURITY CONTRACTOR AT TIME OF INSTALL.
5	ROUTE DATA CABLES UNDERSLAB TO DATA / COM OUTLET (REF. E1.2).
6	ROUTE DATA CABLE(S) TO EXTERIOR CAMERA LOCATION SHOWN (REF. LOW VOLTAGE WIRING TABLE). GC TO COORDINATE EXACT CAMERA LOCATIONS WITH ANDREW MORRIS AT OWL SERVICES (ANDREW.MORRIS@OWLSERVICES.COM)
7	SURFACE MOUNT DATA OUTLETS IN CABINETRY BELOW COUNTER.
8	INSTALL 1-GANG BOX, FLUSH IN WALL WITH 1/2" CONDUIT STUBBED UP TO ACCESSIBLE CEILING SPACE FOR ATM. FLUSH MOUNT DATA / COM OUTLET AND PROVIDE / INSTALL FACEPLATE.
9	ROUTE DATA CABLE TO ACCESS POINT LOCATION SHOWN (REF. LOW VOLTAGE WIRING TABLE). TERMINATE IN BOX WITH CAT6 FEMALE RJ45 JACK. LEAVE 10' EXCESS COILED AT JACK LOCATION.
10	PULL DATA WIRING TO LOW VOLTAGE SECTION OF FLOOR BOX AND INSTALL DATA/COM JACK. REF LOW VOLTAGE TABLE.
11	ROUTE DATA CABLE(S) TO DIGITAL MENU BOARD (DMB) LOCATION SHOWN (REF. LOW VOLTAGE WIRING TABLE). COORDINATE EXACT LOCATION WITH ARCHITECTURAL RCP.
12	ROUTE CABLE TO AVA SENSOR (REF. LOW VOLTAGE WIRING TABLE) AND TERMINATE ON REAR OF DEVICE.
13	ROUTE DATA CABLE TO QSIC MUSIC SPEAKER LOCATION (REF. LOW VOLTAGE WIRING TABLE). INSTALL FEMALE RJ45 JACK, FLUSH IN WALL. COORDINATE EXACT SPEAKER MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS. INSTALL SPEAKER TO CONCEAL JACK. MINIMIZE AND NEATLY ARRANGE EXCESS CABLE.
14	INSTALL (2) 1-1/2" CONDUITS FOR EMS AND LOW VOLTAGE CABLES. SUPPORT CONDUITS FROM TOP FLANGE OF BAR JOIST AND ROUTE WITHIN WEBBING. STUB CONDUITS INTO ACCESSIBLE CEILING SPACE. CAP ENDS WITH NYLON BUSHING.
15	INSTALL 1-GANG BOX, FLUSH IN WALL, CENTERED AT 45" AFF WITH 1/2" CONDUIT STUBBED UP TO ACCESSIBLE CEILING SPACE FOR ALARM KEYPAD.

LOW VOLTAGE NOTES

A. LOW-VOLTAGE WIRING, TERMINATIONS AND FACEPLATES PROVIDED AND INSTALLED BY LOW-VOLTAGE CONTRACTOR.

B. WHERE REQUIRED, RACEWAYS (CONDUIT, BOXES, FITTINGS, ETC.) PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

C. ALL CONDUIT INSTALLED AS STUB-UPS TO ACCESSIBLE CEILING SPACE, SLEEVES, ETC., SHALL BE EMT. FLEXIBLE CONDUIT SHALL NOT BE USED.

D. ALL CONDUIT PROVIDED AS STUB-UPS TO ACCESSIBLE CEILING SPACE, SLEEVES, ETC., SHALL HAVE NYLON BUSHINGS INSTALLED FOR PROTECTION OF WIRING INSTALLED IN THEM.

E. CONDUIT AND WIRING IN AREAS WHERE EXPOSED SHALL BE ROUTED AT 90 DEGREE ANGLES PERPENDICULAR OR PARALLEL TO JOISTS.

F. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL FINISHES.

G. ALL LOW-VOLTAGE WIRING INSTALLED WITHIN RETURN AIR PLENUMS OR AS REQUIRED BY APPLICABLE CODES, AHJ, ETC. SHALL BE PLENUM-RATED.

H. LOW VOLTAGE WIRING IN EXPOSED CEILING AREAS SHALL BE INSTALLED IN RACEWAY (LEGRAND 400 SERIES) AND/OR ROUTED IN SUCH A WAY TO CONCEAL FROM VIEW FROM THE FLOOR BELOW. COORDINATE CABLE AND/OR RACEWAY COLOR WITH FINISH PLAN OR PAINT-TO-MATCH AFTER INSTALLATION.

I. CONDUITS EXPOSED TO WIDELY DIFFERENT TEMPERATURES, SUCH AS COOLERS AND FREEZERS, SHALL BE SEALED TO PREVENT CIRCULATION OF AIR / MOISTURE.

J. ALL CABLING SHALL BE CAT6 WIRED TO TIA/EIA 568B EXCEPT FOR POS REGISTERS WHICH SHALL BE WIRED TO TIA/EIA 568A.

K. CAT-6 KEYSTONE JACKS WIRED TIA/EIA-568B SHALL BE WHITE IN COLOR. CAT-6 KEYSTONE JACKS WIRED TIA/EIA-568A SHALL BE BLUE IN COLOR.

SYMBOL LEGEND	
J	JUNCTION BOX FOR VIEW MONITOR
V	DATA OUTLET
	ACCESS POINT
	SECURITY CAMERA
S	SPEAKER

KEY:
360 - 360 DEGREE CAMERA
180 - 180 DEGREE CAMERA
PVM - PERSONAL VIDEO MONITOR
WDR - WIDE DYNAMIC RANGE

LOW VOLTAGE PACKAGE SCHEDULE

Oracle Number	MANUFACTURER	MODEL	DESCRIPTION	FURNISH BY	INSTALL BY
01111031	QSIC	SMALL STORE PACKAGE	QSIC 2.0 C-STORE MUSIC PLATFORM (In Store Audio System: includes 3 speakers, brackets, media control, AVA, cabling, hardware/mounts & switch)	OWNER	LVC
03144271	Tyco Integrated Security Llc.	711-GKIT-IP	DT QUEUE CAMERA, 1 Set of 14Cameras	OWNER	SECURITY SYSTEM INSTALLER

BRIAN D. LAUG, AIA NCARB
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CONSULTANT
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410-776-5868

PROJECT:

7-ELEVEN 42655
CST

1360 NC 24-87, CAMERON NC 28326

DWG. TITLE:

LOW VOLTAGE FLOOR PLAN

ISSUE / REVISIONS:

	DATE:	DESCRIPTION:
0	06/06/25	ISSUE FOR BID AND PERMIT

SEAL:

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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JAL	JAL
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DATE: 6/06/25	FILE NAME:

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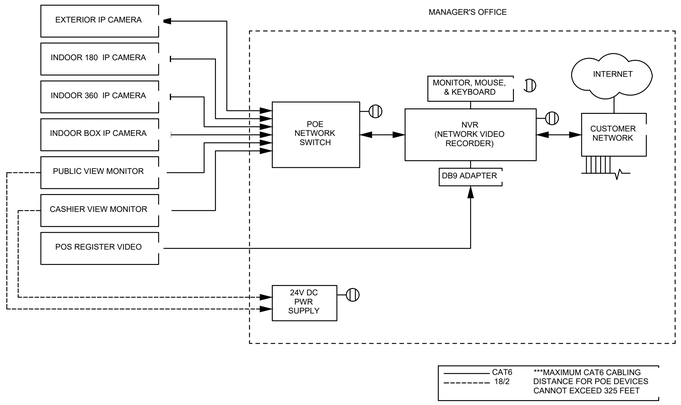
LOW VOLTAGE WIRING TABLE						
FROM	**TO**	**DESCRIPTION**	**ID**	**CABLE**	**QTY**	**NOTE**
PHONE BOARD	SALES COUNTER	VOICE	T1	CAT6	1	
	SALES COUNTER	FAX	T2	CAT6	3	
	SALES (ATM)	ATM	T3	CAT6	1	
ISP DESK	SALES COUNTER	POS 1	D1	CAT6	4	2
	SALES COUNTER	POS 2	D2	CAT6	4	2
	SALES COUNTER	POS 3	D3	CAT6	4	2
	SALES COUNTER	SAFE	D7	CAT6	1	
	SALES COUNTER	MONEY ORDER	D8	CAT6	2	
	SALES COUNTER	LOTTO	D9	CAT6	1	
	ELECTRICAL	EMS	D10	CAT6	1	
	SALES	AP-11A	D11.1	CAT6	1	
	SALES	AP-11B	D11.2	CAT6	1	
	VAULT COOLER	AP-11C	D11.3	CAT6	1	
	BEER CAVE	AP-11D	D11.4	CAT6	1	
	ELECTRICAL	FUELING	D12	CAT6	4	1
	TELECOM	RIS / BROADBAND	D13	CAT6	4	
	SALES (ATM)	ATM	D14	CAT6	1	
	MANAGER	DVR	D15	CAT6	1	
	SALES	QSIC SPEAKER	D20.1	CAT6	1	
	SALES	QSIC SPEAKER	D20.2	CAT6	1	
	SALES	QSIC SPEAKER	D20.3	CAT6	1	
	SALES COUNTER	DMB SALES	D21.1	CAT6	1	
	SALES COUNTER	DMB SALES	D21.2	CAT6	1	
	SALES COUNTER	DMB SALES	D21.3	CAT6	1	
	SALES	AUTO VOLUME ADJUSTMENT (QSIC)	L4	24/3 SHLD	1	3
MANAGER OFFICE	SALES COUNTER	SALES COUNTER 360 CAMERA	V1	CAT6	1	
	SALES	SALES 360 CAMERA	V2	CAT6	1	
	SALES	FRONT 180 CAMERA	V3	CAT6	1	
	SALES	FRONT WDR BOX CAMERA	V4	CAT6	1	
	SALES	FRONT PUBLIC VIEW MONITOR	V5	CAT6	1	
	SALES	SALES 360 CAMERA	V6	CAT6	1	
	SALES	SALES 360 CAMERA	V7	CAT6	1	
	SALES	SALES 360 CAMERA	V8	CAT6	1	
	EXTERIOR	EXTERIOR CAMERA (FACING REAR DOOR)	V9	CAT6	1	
	EXTERIOR	EXTERIOR CAMERA (FACING AUTO CANOPY)	V10	CAT6	1	
	EXTERIOR	EXTERIOR CAMERA (FACING AUTO CANOPY)	V11	CAT6	1	
	BEER CAVE	SALES 360 CAMERA	V12	CAT6	1	
	SALES	SALES 360 CAMERA	V13	CAT6	1	
	MANAGER	MANAGER 360 CAMERA	V14	CAT6	1	
	FOOD PREP	FOOD PREP 360 CAMERA	V15	CAT6	1	
	MANAGER	KEYPAD OUTSIDE MANAGERS OFFICE	L1	22/4	1	
	SALES	FRONT PVM POWER	L2	18/2	1	
ELECTRIC ROOM	SALES COUNTER	INTERCOM WIRING	L5		1	1

NOTES:
(CONTRACTOR TO VERIFY ALL EXISTING LOW VOLTAGE EQUIPMENT AND FIELD COORDINATE QUANTITIES AND LOCATIONS OF EQUIPMENT PRIOR TO ORDERING

1. EC TO PROVIDE AND INSTALL CONDUIT AND PULL STRING. WIRING AND TERMINATIONS PROVIDED BY FUELING CONTRACTOR.
2. ALL CABLING SHALL BE CAT6 WIRED TO TIA/EIA 568B EXCEPT FOR POS REGISTERS WHICH SHALL BE WIRED TO TIA/EIA 568A.
3. BELDEN 8406 OR EQUIVALENT.
4. INSTALL ONLY WHEN REQUIRED.

1 LOW VOLTAGE TABLE
N.T.S.



2 STANDARD 7-ELEVEN IP CCTV TOPOLOGY
N.T.S.

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7-ELEVEN 42655
CST

1360 NC 24-87, CAMERON NC 28326

DWG. TITLE:

LOW VOLTAGE DETAILS

ISSUE/ REVISIONS:

NO.	DATE	DESCRIPTION
0	06/06/25	ISSUE FOR BID AND PERMIT

SEAL:

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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6/06/25	

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1 LIGHTING PLAN

Scale: 1/4"=1'

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE NAME	QTY	MANUFACTURER	CATALOG NUMBER	VOLTAGE	VA PER FIXTURE	LAMP TYPE	MOUNTING	LISTING	FIXTURE DESCRIPTION	SUPPLIER	FURNISH BY	INSTALL BY
A2/A3	0/10	CREE	FLX22/24-40L-940-CRV-10V10-UNV	120.0 V	33 VA	LED	RECESSED	DLC	LED 2' X 2'/2'X4' RECESSED TROFFER	GRAYBAR	GC	GC
A2E/A3E	0/3	CREE	FLX22/24-40L-940-CRV-10V10-UNV-EB	120.0 V	36 VA	LED	RECESSED	DLC	LED 2' X 2' RECESSED TROFFER WITH EMERGENCY BATTERY	GRAYBAR	GC	GC
A4	34	TBD	TBD	120.0 V	-VA	LED	RECESSED	DLC	LED 1'X4' RECESSED TROFFER	GRAYBAR	GC	GC
A4E	6	TBD	TBD	120.0 V	-VA	LED	RECESSED	DLC	LED 1' X 2' RECESSED TROFFER WITH EMERGENCY BATTERY	GRAYBAR	GC	GC
DS4	6	CREE	CR-B-LE-40L-940-UNV-10V1 & SMK-LE & SMK-EC	120.0 V	32 VA	LED	SURFACE	DLC	LED 1x4 SURFACE MOUNTED 4000K	GRAYBAR	GC	GC
R1	2	COOPER	APWR2BK	3.6 V	N / A	LED	UNIVERSAL	UL 924	REMOTE HEAD, BLACK	GRAYBAR	GC	GC
X1		SIGNIFY/CHLORIDE	VERWEM	120.0 V	10 VA	LED	UNIVERSAL	UL 924	LED EXIT (RED) LETTERS, EMERGENCY BATTERY BACK-UP LOW TEMP	GRAYBAR	GC	GC
X2	3	COOPER	APXH7R2	120.0 V	2 VA	LED	UNIVERSAL	UL 924	LED EXIT (RED) LETTERS, EMERGENCY BATTERY BACK-UP, REMOTE CAPABLE	GRAYBAR	GC	GC

KEYED NOTES

1. ALL NEW LIGHTING FIXTURES, EM LIGHTING AND EXIT SIGNS IN THIS AREA SHALL BE CONNECT TO EXISTING BRANCH CIRCUITS/SWITCH LEGS MADE SAFE-OFF DURING DEMOLITION. ALL LIGHTING CONTROLS SHALL BE REUSED , WHERE REQUIRED.
2. NEW LIGHTING FIXTURES ARE TO BE INSTALLED IN THIS AREA AND CONNECTED TO LOCAL EXISTING LIGHTING BRANCH CIRCUITS/SWITCH LEGS. EXISTING LIGHTING CONTROLS ARE TO REMAIN, WHERE REQUIRED.
3. EXISTING ELECTRICAL PANELS TO REMAIN. REFER TO ONE-LINE FOR MORE INFORMATION.
4. EMERGENCY LIGHT FIXTURE. CONNECT TO EXISTING LIGHTING CIRCUIT IN AREA AHEAD OF ALL SWITCHES. COORDINATE SELECTION WITH ARCHITECT.
5. LIGHTING FIXTURES, CONTROLS AND LIGHTING BRANCH CIRCUITS IN THIS AREA ARE EXISTING TO REMAIN.

GENERAL NOTES

THE INTENT OF THE PROJECT IS AN ALTERATION TO REPLACE EXISTING LIGHTING FIXTURES, EQUIPMENT AND DEVICES IN A LIMITED AREA OF THE BUILDING AND TO REUSE EXISTING BRANCH CIRCUITS IN THE AREA WHERE POSSIBLE.

NO ADDITIONAL LIGHTING OR DEVICE ELECTRICAL LOAD IS EXPECTED BE ADDED TO THE EXISTING BRANCH CIRCUITS.

LIGHTING FIXTURES ARE TO BE SELECTED BY OWNER/ARCHITECT.

NOTES:

1. REFER TO DWG. E0.1 FOR SYMBOL LIST, NOTES AND ABBREVIATIONS.
2. LIGHTING FIXTURE SELECTIONS SHALL BE COORDINATED WITH THE ARCHITECT.

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DRG. TITLE:

LIGHTING PLAN

ISSUE / REVISIONS		
0	06/06/25	ISSUE FOR BID AND PERMIT
	DATE	DESCRIPTION

SEAL

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO, JR

DocuSigned by: 38E7250DE7A54BA...

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SECTION 16000 – BASIC ELECTRICAL

1. THE WORK COVERED BY DIVISION 16 CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS (EXCEPT AS OTHERWISE SPECIFIED OR SHOWN ON THE DRAWINGS) REQUIRED TO PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL SYSTEMS. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

2. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS TO PREVENT CONFLICTS CAUSING UNNECESSARY EXPENSE OR DELAYS IN THE INSTALLATION OF WORK. WHEN CONFLICTS ARISE, REMOVE AND RELOCATE ITEMS CAUSING SUCH CONFLICTS AT NO ADDITIONAL COST TO THE OWNER. REFER TO OTHER DISCIPLINE'S DRAWINGS, RELEVANT EQUIPMENT DRAWINGS, AND SHOP DRAWINGS TO DETERMINE AVAILABLE CLEARANCES AND POSSIBLE OBSTRUCTIONS. MAKE ANY NECESSARY OFFSETS OR TRANSITIONS AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, EXISTING EQUIPMENT, ETC. TO FACILITATE INSTALLATION OF THE WORK IN THE MANNER INDICATED.

3. ALL WORK SHALL COMPLY WITH THE LOCALLY ADOPTED ELECTRICAL CODE AND ALL APPLICABLE LAWS, CODES, RECOMMENDATIONS, REGULATIONS, AND INTERIM AMENDMENTS, OF THE GOVERNMENTAL BODIES HAVING JURISDICTION INCLUDING ADA COMPLIANCE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE GOVERNING SAFETY REGULATIONS, INCLUDING OSHA REGULATIONS. ALL SAFETY LIGHTS, GUARDS AND SIGNS REQUIRED FOR THE PERFORMANCE OF THE ELECTRICAL WORK SHALL BE PROVIDED BY AND OPERATED BY THE ELECTRICAL CONTRACTOR.

4. THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, SHOWING THE LOCATION, TYPE, DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. PROVIDE ALL FIXTURES, DEVICES, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT FURNISHED BY OTHERS.

5. ELECTRICAL DESIGN FOR THIS INSTALLATION IS BASED ON FIELD INSPECTIONS AND PREVIOUS DESIGN DRAWINGS FOR THE EXISTING BUILDING. ELECTRICAL CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. ALLOWANCES ARE TO BE INCLUDED FOR UNFORESEEN EXISTING CONDITIONS THAT MAY EFFECT THE CONTRACTOR'S SCOPE OF WORK. MINOR DEVIATIONS REQUIRED FOR ACCOMPLISHING THE INTENT OF THIS DESIGN IS TO BE INCLUDED IN THIS ALLOWANCE.

6. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING UTILITIES. ANY ITEM DAMAGED BY THIS CONTRACTOR IS TO BE REPAIRED IMMEDIATELY AND AT NO COST TO THE OWNER.

7. ROOF PENETRATIONS SHALL COMPLY WITH "SMACNA" AND "NRCA" STANDARDS, AND WITH THE REQUIREMENTS OF THE EXISTING ROOFING WARRANTY, IF APPLICABLE. DO NOT PERFORM ROOFING PENETRATIONS IN A MANNER WHICH WOULD VOID OR OTHERWISE LIMIT THE EXISTING ROOFING WARRANTY.

8. ALL EQUIPMENT AND COMPONENTS FURNISHED AND/OR INSTALLED SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).

9. TEMPORARY ELECTRICAL SERVICE:

   A. PROVIDE TEMPORARY ELECTRICAL SERVICE FOR POWER AND LIGHTING DURING CONSTRUCTION. MAINTAIN DURING CONSTRUCTION AND REMOVE SERVICE AFTER CONSTRUCTION IS COMPLETED. THE TEMPORARY SYSTEM SHALL CONSIST OF AN ELECTRICAL SERVICE, DISTRIBUTION SYSTEM, LOAD–CENTER PANEL, GROUNDING, 15 AMP AND/OR 20 AMP BRANCH CIRCUITS, GROUNDED TYPE RECEPTACLES AND LIGHTING FIXTURES.

   B. PROVIDE AND INSTALL SUFFICIENT NUMBER OF TEMPORARY LIGHT FIXTURES FOR A SAFE INSTALLATION FOR ALL TRADES THROUGHOUT THE BUILDING. ALL LAMPS FOR GENERAL ILLUMINATION SHALL BE PROTECTED FROM ACCIDENTAL CONTACT OR BREAKAGE BY SUITABLE FIXTURE OR LAMPHOLDER WITH A GUARD. (NO EXCEPTIONS.)

10. WARRANTIES:

   A. CONTRACTOR SHALL WARRANT ALL WORK PERFORMED AND MATERIAL & LABOR PROVIDED UNDER THE CONTRACT AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM SUBSTANTIAL COMPLETION. PROVIDE ALL SERVICES AS REQUIRED TO IMMEDIATELY REPAIR OR REPLACE, AT NO ADDITIONAL COST, ANY DEFECTIVE PART OF THE INSTALLATION RESULTING FROM THE SUPPLY OF FAULTY WORKMANSHIP OR MATERIAL. LACK OF MAINTENANCE, ACCIDENTS, OR CARELESSNESS ON THE PART OF THE OWNER SHALL NOT BE INCLUDED IN THIS WARRANTY.

   B. ALL LAMPS ARE TO BE WARRANTED ACCORDING TO LAMP MANUFACTURER, WHICH IS ALSO BASED ON AVERAGE LIFE DATA FOR EACH SPECIFIC TYPE OF LAMP. PROVIDE LABOR TO REPLACE ALL DEFECTIVE LAMPS THAT ARE WITHIN LAMP MANUFACTURER'S WARRANTY PERIOD.

   C. ALL EQUIPMENT, APPARATUS AND APPLIANCES WHICH ARE SPECIFIED AND/OR COME WITH WARRANTIES LONGER THAN ONE YEAR SHALL BE REGISTERED WITH THE MANUFACTURER IN THE OWNER'S NAME.

11. EXCAVATION:

   A. PROVIDE ALL EXCAVATION AND BACKFILL AS NECESSARY TO INSTALL THE CONDUIT SYSTEMS AS SHOWN ON THE DRAWINGS.

   B. CARE SHALL BE TAKEN IN EXCAVATING THAT WALLS AND FOOTINGS AND ADJACENT LOAD BEARING SOILS ARE NOT DISTURBED IN ANY WAY. WHERE RACEWAYS MUST CROSS UNDER A WALL FOOTING, THE EXCAVATION SHALL BE KEPT AT A MINIMUM.

   C. CONDUIT SHALL BE SUPPORTED DIRECTLY ON UNDISTURBED SOIL, DO NOT EXCAVATE BEYOND INDICATED DEPTH. IF EXISTING SOIL IS UNSUITABLE (SOFT SPOT OR ROCK), EXCAVATE TO SOLID SUBGRADE, OR 6" FOR ROCK, BELOW BOTTOM OF WORK AND PROVIDE SUB–BASE MATERIAL AS REQUIRED.

   D. IMMEDIATELY AFTER INSTALLATION, THE TRENCH SHALL BE CAREFULLY BACKFILLED WITH EARTH FREE FROM CLODS, BRICK, ETC. TO A DEPTH ONE–HALF THE RACEWAY DIAMETER AND THEN FIRMLY TAMPED IN SUCH A MANNER AS NOT TO DISTURB ALIGNMENT OR JOINTS OF THE CONDUIT. THEREAFTER THE BACKFILL SHALL BE TAMPED EVERY VERTICAL FOOT.

12. CUTTING AND PATCHING:

   A. NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED, OR PENETRATED WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.

   B. PROVIDE CUTTING, PATCHING, AND PATCH PAINTING IN EXISTING STRUCTURES, AS REQUIRED FOR THE INSTALLATION OF WORK OF THIS SECTION. EXTENT OF CUTTING SHALL BE MINIMIZED. USE CORE DRILLS, POWER SAWS, AND OTHER MACHINES WHICH WILL PROVIDE NEAT, MINIMUM OPENINGS. REFER TO STRUCTURAL DRAWINGS FOR LINTELS AND SUPPORTS TO BE FURNISHED BY OTHERS FOR THE ELECTRICAL WORK. ALL OTHER LINTELS AND SUPPORTS REQUIRED FOR THE ELECTRICAL WORK SHALL BE FURNISHED BY DIVISION 16. PATCHING SHALL MATCH AND EQUAL ADJACENT MATERIALS AND SURFACES AND SHALL BE PERFORMED BY CRAFTSMAN SKILLED IN THE RESPECTIVE CRAFT REQUIRED. PATCHED FINISHES SHALL BE APPROVED BY THE ARCHITECT.

   C. ALL PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED AND REPLACED BY THIS CONTRACTOR, TO THE SATISFACTION OF THE AUTHORITIES HAVING REGULATORY JURISDICTION AND BUILDING OWNER.

SECTION 16060 – GROUNDING

1. EXTENT OF ELECTRICAL GROUNDING AND BONDING WORK IS INDICATED BY DRAWINGS AND AS SPECIFIED HEREIN. GROUNDING AND BONDING WORK IS DEFINED TO ENCOMPASS SYSTEMS, CIRCUITS, AND EQUIPMENT.

2. EXCEPT AS OTHERWISE INDICATED, PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING, BUT NOT LIMITED TO, CABLES/WIRES, CONNECTORS, SOLDERLESS LUG TERMINALS, GROUNDING ELECTRODES AND PLATE ELECTRODES, BONDING JUMPER BRAID, AND ADDITIONAL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION. WHERE MORE THAN ONE TYPE COMPONENT PRODUCT MEETS INDICATED REQUIREMENTS, SELECTION IS INSTALLER'S OPTION. WHERE MATERIALS OR COMPONENTS ARE NOT INDICATED, PROVIDE PRODUCTS WHICH COMPLY WITH BUILDING CODES, UL, AND IEEE REQUIREMENTS AND WITH ESTABLISHED INDUSTRY STANDARDS FOR THOSE APPLICATIONS INDICATED.

3. INSTALL ELECTRICAL GROUNDING AND BONDING SYSTEMS AS INDICATED, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPLICABLE PORTIONS OF THE BUILDING CODES, NECA'S "STANDARD OF INSTALLATION", AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS COMPLY WITH REQUIREMENTS.

4. RACEWAY SYSTEMS SHALL NOT BE USED AS GROUNDING METHOD. ALL BRANCH AND FEEDER CONDUITS TO HAVE A GROUNDING CONDUCTOR INSTALLED WITH PHASE AND NEUTRAL CONDUCTORS. SIZE OF GROUND CONDUCTOR TO BE IN ACCORDANCE WITH THE ADOPTED ELECTRICAL CODE. TERMINATE FEEDER AND BRANCH CIRCUIT INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH GROUNDING LUG, BUS, OR BUSHING.

5. INSTALLATION OF ELECTRICAL GROUNDING AND BONDING SYSTEMS:

   A. GROUNDING ELECTRODE CONDUCTORS, WHERE NOT INSTALLED AS PART OF A BRANCH CIRCUIT OR FEEDER, SHALL BE INSTALLED IN PVC CONDUIT, TO PROTECT THE WIRING FROM PHYSICAL DAMAGE.

   B. CONNECT GROUNDING ELECTRODE CONDUCTORS TO METAL COLD WATER PIPE AND ALL OTHER TYPES OF METAL PIPING WITHIN THE BUILDING USING A SUITABLY SIZED GROUND CLAMP. PROVIDE CONNECTIONS TO FLANGED PIPING TO STREET SIDE OF FLANGE. PROVIDE BONDING AS DESCRIBED IN ADOPTED ELECTRICAL CODE INCLUDING BONDING JUMPER AROUND WATER METER.

   C. CONNECT TOGETHER SYSTEM NEUTRAL, SERVICE EQUIPMENT ENCLOSURES, EXPOSED NON–CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND CABLES, RECEPTACLE GROUND CONNECTORS, AND PLUMBING SYSTEMS.

   D. THE UTILITY COMPANY METER SOCKET SHALL BE GROUNDED TO A 1/2" X 10' COPPER CLAD STEEL GROUND ROD WITH COPPER WIRE INSTALLED IN P.V.C. CONDUIT. THE GROUND ROD SHALL BE DRIVEN INTO THE EARTH WITH THE TOP 1'–0" BELOW GRADE, AS NEAR AS POSSIBLE TO THE LOCATION OF THE METER SOCKET WITH THE TOP 1'–0" BELOW FINISHED GRADE.

SECTION 16075 – IDENTIFICATION

1. ENGRAVED, PLASTIC–LAMINATED LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK MELAMINE PLASTIC LAMINATE, 1/16–INCH MINIMUM THICK FOR SIGNS UP TO 20 SQUARE INCHES, OR 8 INCHES IN LENGTH; 1/8–INCH THICK FOR LARGER SIZES. ENGRAVED LEGEND IN WHITE LETTERS ON BLACK FACE AND PUNCHED FOR MECHANICAL FASTENERS.

2. CABLE TIES: FUNGUS–INERT, SELF–EXTINGUISHING, ONE–PIECE, SELF–LOCKING NYLON CABLE TIES, 0.18–INCH MINIMUM WIDTH, 50–LB MINIMUM TENSILE STRENGTH, AND SUITABLE FOR A TEMPERATURE RANGE FROM MINUS 50 F TO 350 F. PROVIDE TIES IN SPECIFIED COLORS WHEN USED FOR COLOR–CODING.

3. SELF ADHESIVE, COMMERCIALLY AVAILABLE ARC FLASH HAZARD LABELS. LABELS TO CONFORM TO THE ADOPTED ELECTRICAL CODE AND A.N.S.I. Z535.4.

4. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR SECONDARY SERVICE, FEEDER, AND BRANCH CIRCUIT CONDUCTORS THROUGHOUT THE PROJECT SECONDARY ELECTRICAL SYSTEM PER WIRES AND CABLING SECTION.

5. APPLY EQUIPMENT IDENTIFICATION LABELS OF ENGRAVED PLASTIC– LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT IN BUILDING, INCLUDING CENTRAL OR MASTER UNIT OF EACH ELECTRICAL SYSTEM. THIS INCLUDES COMMUNICATION/SIGNAL/ALARM SYSTEMS, UNLESS UNIT IS SPECIFIED WITH ITS OWN SELF–EXPLANATORY IDENTIFICATION. EXCEPT AS OTHERWISE INDICATED, PROVIDE SINGLE LINE OF TEXT, WITH 1/4–INCH–HIGH LETTERING ON 1–INCH–HIGH LABEL (1–1/2–INCH–HIGH WHERE TWO LINES ARE REQUIRED), WHITE LETTERING IN BLACK FIELD. TEXT SHALL MATCH TERMINOLOGY AND NUMBERING OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. APPLY LABELS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL EQUIPMENT.

   A. PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES
   B. ELECTRICAL SWITCHGEAR AND SWITCHBOARDS
   C. MOTOR STARTERS AND/OR VFDs FURNISHED BY THIS CONTRACTOR
   D. DISCONNECT SWITCHES
   E. CONTACTORS

SECTION 16075 – IDENTIFICATION

1. ENGRAVED, PLASTIC–LAMINATED LABELS, SIGNS, AND INSTRUCTION PLATES: ENGRAVING STOCK MELAMINE PLASTIC LAMINATE, 1/16–INCH MINIMUM THICK FOR SIGNS UP TO 20 SQUARE INCHES, OR 8 INCHES IN LENGTH; 1/8–INCH THICK FOR LARGER SIZES. ENGRAVED LEGEND IN WHITE LETTERS ON BLACK FACE AND PUNCHED FOR MECHANICAL FASTENERS.

2. CABLE TIES: FUNGUS–INERT, SELF–EXTINGUISHING, ONE–PIECE, SELF–LOCKING NYLON CABLE TIES, 0.18–INCH MINIMUM WIDTH, 50–LB MINIMUM TENSILE STRENGTH, AND SUITABLE FOR A TEMPERATURE RANGE FROM MINUS 50 F TO 350 F. PROVIDE TIES IN SPECIFIED COLORS WHEN USED FOR COLOR–CODING.

3. SELF ADHESIVE, COMMERCIALLY AVAILABLE ARC FLASH HAZARD LABELS. LABELS TO CONFORM TO THE ADOPTED ELECTRICAL CODE AND A.N.S.I. Z535.4.

4. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING FOR SECONDARY SERVICE, FEEDER, AND BRANCH CIRCUIT CONDUCTORS THROUGHOUT THE PROJECT SECONDARY ELECTRICAL SYSTEM PER WIRES AND CABLING SECTION.

5. APPLY EQUIPMENT IDENTIFICATION LABELS OF ENGRAVED PLASTIC– LAMINATE ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT IN BUILDING, INCLUDING CENTRAL OR MASTER UNIT OF EACH ELECTRICAL SYSTEM. THIS INCLUDES COMMUNICATION/SIGNAL/ALARM SYSTEMS, UNLESS UNIT IS SPECIFIED WITH ITS OWN SELF–EXPLANATORY IDENTIFICATION. EXCEPT AS OTHERWISE INDICATED, PROVIDE SINGLE LINE OF TEXT, WITH 1/4–INCH–HIGH LETTERING ON 1–INCH–HIGH LABEL (1–1/2–INCH–HIGH WHERE TWO LINES ARE REQUIRED), WHITE LETTERING IN BLACK FIELD. TEXT SHALL MATCH TERMINOLOGY AND NUMBERING OF THE CONTRACT DOCUMENTS AND SHOP DRAWINGS. APPLY LABELS FOR EACH UNIT OF THE FOLLOWING CATEGORIES OF ELECTRICAL EQUIPMENT.

   A. PANELBOARDS, ELECTRICAL CABINETS, AND ENCLOSURES
   B. ELECTRICAL SWITCHGEAR AND SWITCHBOARDS
   C. MOTOR STARTERS AND/OR VFDs FURNISHED BY THIS CONTRACTOR
   D. DISCONNECT SWITCHES
   E. CONTACTORS

SECTION 16120 – WIRES AND CABLES

1. CONDUCTORS: PROVIDE SOLID CONDUCTORS FOR POWER AND LIGHTING CIRCUITS NO. 10 AWG AND SMALLER. PROVIDE STRANDED CONDUCTORS FOR SIZES NO. 8 AWG AND LARGER.

2. CONDUCTOR MATERIAL: COPPER FOR ALL WIRES AND CABLES.

3. INSULATION: PROVIDE THHN/THWN INSULATION FOR ALL CONDUCTORS NO. 14 AWG THRU NO. 10 AWG. FOR ALL OTHER SIZES PROVIDE THHN/THWN OR XHHW INSULATION AS APPROPRIATE FOR THE LOCATION WHERE INSTALLED.

4. ALUMINUM CONDUCTORS ARE NOT APPROVED OR ACCEPTABLE.

5. ALUMINUM CONDUCTORS:

   A. AT THE CONTRACTOR'S OPTION, ALUMINUM CONDUCTORS WILL BE ALLOWED FOR COPPER SIZES RATED FOR 100 AMPERES AND LARGER BUT, SIZE MUST BE INCREASED TO EQUAL OR EXCEED THE COPPER AMPACITY IN ACCORDANCE WITH ADOPTED ELECTRICAL CODE. RACEWAY AND PULL BOXES MUST BE INCREASED TO CONFORM TO ADOPTED ELECTRICAL CODE. ALL ALUMINUM CONDUCTORS MUST BE MADE BASED ON COMPACT STRANDED, AA–8000 SERIES ALUMINUM ALLOY MATERIAL EQUAL TO "STABILOY" ALCAN CABLE.

   B. IF ALUMINUM CABLE IS TO BE INSTALLED ON THIS PROJECT, CONTRACTOR IS TO NOTIFY ENGINEER IN WRITING, AT TIME OF SUBMITTAL DRAWINGS. CONTRACTOR IS TO LIST ALL FEEDERS THAT WILL BE CHANGED TO ALUMINUM, AND INDICATE THE REVISED ALUMINUM CONDUCTOR SIZE.

   C. CONNECTORS AND TERMINATIONS INSTALLED WITH ALUMINUM–ALLOY CONDUCTORS SHALL BE COMPRESSION TYPE ONLY, AND ONLY THOSE LISTED BY UNDERWRITER'S LABORATORIES STRANDED 486–B AND MARKED "AL7CU" FOR 75C RATED CIRCUITS.

   D. IF THE CONTRACTOR DECIDES TO EXERCISE THE OPTION OF ALUMINUM CONDUCTORS FOR CONNECTIONS TO EQUIPMENT PROVIDED AND/OR INSTALLED BY OTHER TRADES, THEN THIS CONTRACTOR SHALL REIMBURSE THE EQUIPMENT SUPPLIER FOR ANY COST ASSOCIATED WITH THE MODIFICATIONS REQUIRED TO THAT EQUIPMENT.

   E. ENDS OF ALL CONDUCTORS ARE TO BE BRUSHED CLEAN AND PRIOR TO FINAL CONNECTION, EXPOSED PORTION OF CONDUCTOR TO BE COVERED WITH ALUMINUM OXIDE INHIBITOR. CONDUCTOR TERMINATION MADE WITH SET–SCREW TERMINAL LUGS ARE TO BE TORQUED, USING A TORQUE WRENCH, IN ACCORDANCE WITH LUG MANUFACTURER SPECIFICATIONS OR ACCORDING TO UL STANDARD 486B. AT THE COMPLETION OF THE PROJECT CONTRACTOR IS TO CHECK TORQUE VALUES ON ALL ALUMINUM TERMINATIONS. CONTRACTOR IS TO SUBMIT IN WRITING, AT TIME OF RECORD DRAWINGS, A COMPLETE LIST OF APPLIED TORQUE VALUES FOR ALL ALUMINUM TERMINATIONS.

6. VARIABLE FREQUENCY DRIVE CABLES: WHERE A VFD IS INSTALLED, PROVIDE A VFD CABLING SYSTEM FROM THE VFD TO THE CONTROLLED EQUIPMENT MANUFACTURED MEETING THE FOLLOWING SPECIFICATIONS:
   6.1. ASTM B3 AND B8
   6.2. UL 44, UL 1277
   6.3. COLOR CODE PER ICEA S–58–679 METHOD 4
   6.4. IEEE 1202/FT4 FLAME TEST
   6.5. CONDUCTORS SHALL BE CLASS B STRANDED, UNCOATED ANNEALED COPPER; EACH CONDUCTOR SHALL BE INSULATED WITH BLACK POLYETHYLENE. A 5 MIL UNCOATED COPPER TAPE SHIELD, HELICALLY WRAPPED OVER THE TWISTED ASSEMBLY WITH A 50% OVERLAP AND IN CONTACT WITH THE GROUND WIRE. WITH A FLAME RETARDANT PVC JACKET OUTER JACKET.

1. INSTALLATION OF WIRES AND CABLES:

   A. ALL BRANCH CIRCUIT WIRES, FEEDER CABLES, ETC., SHALL BE CONTINUOUS FROM OUTLET TO OUTLET. NO JOINTS SHALL BE MADE EXCEPT IN OUTLET, JUNCTION OR PULL BOXES, PANELBOARD AND SWITCHBOARD GUTTERS. FOR THE SPLICING OF EXISTING FEEDER CONDUCTORS, COMPRESSION TYPE BUTT SPLICES WITH COLD SHRINK INSULATION KITS ARE TO BE USED.

   B. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES. WHERE MANUFACTURER'S TORQUE REQUIREMENTS ARE NOT INDICATED, TIGHTEN CONNECTORS AND TERMINALS TO COMPLY WITH TIGHTENING TORQUE'S SPECIFIED IN UL 486A AND UL 486B.

   C. TERMINALS ON SWITCHES AND CONVENIENCE OUTLETS SHALL NOT BE USED TO "FEED THROUGH" TO THE NEXT SWITCH OR OUTLET. WHERE MORE THAN ONE GROUND, COMMON NEUTRAL, OR COMMON PHASE CONDUCTOR ENTERS A BOX, ALL LIKE CONDUCTORS SHALL BE IN GOOD ELECTRICAL CONTACT WITH EACH OTHER AND THE ARRANGEMENT SHALL BE SUCH, THAT THE DISCONNECTING OR REMOVAL OF A DEVICE FED FROM THE BOX, WILL NOT INTERFERE WITH OR INTERRUPT SERVICE TO THE REMAINDER OF THE BRANCH CIRCUIT WIRING.

208Y/120 VOLTS NORMAL	PHASE
BLACK	A
RED	B
BLUE	C
WHITE	NEUTRAL
GREEN	GROUND
GREEN W/ YELLOW STRIP	ISOLATED GROUND

SECTION 16130 – RACEWAYS

1. THIS SECTION INCLUDES RACEWAYS FOR ELECTRICAL WIRING. TYPES OF RACEWAYS IN THIS SECTION INCLUDE THE FOLLOWING:

   A. ELECTRICAL METALLIC TUBING (EMT)
   B. INTERMEDIATE METAL CONDUIT (IMC)
   C. FLEXIBLE METAL CONDUIT
   D. LIQUID–TIGHT FLEXIBLE CONDUIT
   E. RIGID METAL CONDUIT
   F. RIGID NONMETALLIC CONDUIT (PVC)
   G. SURFACE RACEWAYS
   H. WIREWAY
   I. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE

2. WIREWAYS:

   A. ELECTRICAL WIREWAYS SHALL BE OF TYPES, SIZES, AND NUMBER OF CHANNELS AS INDICATED. FITTINGS AND ACCESSORIES INCLUDING BUT NOT LIMITED TO COUPLINGS, OFFSETS, ELBOWS, EXPANSION JOINTS, ADAPTERS, HOLD–DOWN STRAPS, AND END CAPS SHALL MATCH AND MATE WITH WIREWAY AS REQUIRED FOR A COMPLETE SYSTEM. WHERE FEATURES ARE NOT INDICATED, SELECT TO FULFILL WIRING REQUIREMENTS AND COMPLY WITH APPLICABLE PROVISIONS OF ADOPTED ELECTRICAL CODE.

4. SURFACE RACEWAYS:

   A. SIZES AND CHANNELS AS INDICATED, MINIMUM SIZE TO BE EQUAL TO WIREMOLD #500 SERIES. PROVIDE FITTINGS THAT MATCH AND MATE WITH RACEWAY. CONSTRUCT OF GALVANIZED STEEL WITH SNAP–ON COVERS, WITH 1/8–INCH MOUNTING SCREW KNOCKOUTS IN BASE APPROXIMATELY 8 INCHES ON–CENTER. FINISH WITH MANUFACTURER'S STANDARD PRIME COATING SUITABLE FOR PAINTING. PROVIDE RACEWAYS OF TYPE SUITABLE FOR EACH APPLICATION REQUIRED.

5. WIRING METHOD:

   A. OUTDOORS: USE THE FOLLOWING WIRING METHODS:
      A.1. EXPOSED: INTERMEDIATE METAL CONDUIT.
      A.2. CONCEALED: INTERMEDIATE METAL CONDUIT.
      A.3. UNDERGROUND, RIGID NONMETAL CONDUIT.
      A.4. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR–DRIVEN EQUIPMENT: LIQUID–TIGHT FLEXIBLE METAL CONDUIT.
      A.5. INDOORS OR OUTDOORS: CONNECTION TO VIBRATING EQUIPMENT AND HYDRAULIC, PNEUMATIC, OR ELECTRIC SOLENOID OR MOTOR–DRIVEN EQUIPMENT IN MOIST OR HUMID LOCATION OR CORROSIVE ATMOSPHERE, OR WHERE SUBJECT TO WATER SPRAY OR DRIPPING OIL, GREASE, OR WATER: LIQUID–TIGHT FLEXIBLE METAL CONDUIT.

   B. INDOORS: USE THE FOLLOWING WIRING METHODS:
      B.1. CONNECTION TO VIBRATING EQUIPMENT: INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC OR ELECTRIC SOLENOID OR MOTOR–OPERATED EQUIPMENT: FLEXIBLE METAL CONDUIT.
      B.2. EXPOSED: ELECTRICAL METALLIC TUBING CONDUIT.
      B.3. CONCEALED: ELECTRICAL METALLIC TUBING.
      B.4. CONCEALED, IN CONCRETE EMBEDDED, STRUCTURAL INTERIOR WALLS, OR ROOF DECK PENETRATIONS: INTERMEDIATE METAL OR RIGID METAL CONDUIT.
      B.5. UNDER CONCRETE FLOOR (SLAB ON GRADE): INTERMEDIATE METAL OR RIGID METAL CONDUIT.

   C. P.V.C. CONDUIT CAN BE INSTALLED BELOW FLOOR SLAB INDOORS, ONLY IF RIGID STEEL ELBOWS ARE USED WHEN PASSING THRU FLOOR SLAB. MINIMUM SIZE P.V.C. CONDUIT THAT CAN BE INSTALLED IS 3/4" UNLESS NOTED OTHERWISE. ALL P.V.C. CONDUIT JOINTS ARE TO BE GLUED AND SEALED TO PREVENT MOISTURE FROM ENTERING RACEWAY SYSTEM. CONDUITS FOUND TO CONTAIN MOISTURE WILL BE REPAIRED OR REPLACED AS REQUIRED PRIOR TO INSTALLATION OF CONDUCTORS.

   D. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLE
      D.1. MC AND AC CABLE MAY BE USED IN LIEU OF E.M.T. CONDUIT IF ACCEPTABLE TO LOCAL AUTHORITIES AND INSTALLED PER ELECTRICAL CODE REGARDING SUPPORT, GROUNDING AND CABLE TERMINATIONS. ALL MC AND AC CABLE NOT INSTALLED PER THE ADOPTED CODE SHALL BE REMOVED, REINSTALLED AND CORRECTED AT CONTRACTOR'S EXPENSE WITH NO EXTENSION IN THE CONSTRUCTION SCHEDULE.
      D.2. MC AND AC CABLE MUST BE SUPPORTED AND SECURED BY STAPLES, CABLE TIES, STRAPS, HANGERS, OR SIMILAR FITTINGS, DESIGNED AND INSTALLED SO AS NOT TO DAMAGE THE CABLE.
      D.3. MC AND AC CABLE, WITH FOUR OR LESS CONDUCTORS SIZED NO LARGER THAN 10 AWG, MUST BE SECURED WITHIN 12 IN. OF EVERY OUTLET BOX, JUNCTION BOX, CABINET, OR FITTING AND AT INTERVALS NOT EXCEEDING 6 FT.
      D.4. MC AND AC CABLE MUST BE SUPPORTED AT INTERVALS NOT EXCEEDING 6 FT. CABLES INSTALLED HORIZONTALLY THROUGH WOODEN OR METAL FRAMING MEMBERS ARE CONSIDERED SECURED AND SUPPORTED WHERE SUCH SUPPORT DOESN'T EXCEED 6 FT INTERVALS.
      D.5. MAY NOT BE USED IN EXTERIOR APPLICATIONS

6. CONDUIT SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET OR FITTING, AND BE SO MECHANICALLY AND ELECTRICALLY CONNECTED THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE CONDUIT TO ANOTHER IS SECURED. THE ENTIRE SYSTEMS SHALL BE SECURELY FASTENED IN PLACE WITHIN 3' OF EACH OUTLET OR JUNCTION BOX, CABINET OR FITTING, AND AT INTERVALS NOT EXCEEDING 10', EXCEPT AS OTHERWISE SPECIFIED OR SHOWN. SINGLE CONDUITS FOR FEEDERS SHALL BE HUNG WITH GRINNEL, CRANE, OR EQUAL, MALLEABLE SPLIT RING HANGERS WITH ROD SUSPENSION SPACED NOT OVER 10' APART FROM CONSTRUCTION ABOVE. GROUPS OF HORIZONTAL FEEDER AND BRANCH CIRCUIT CONDUITS SHALL BE CLAMPED TO UNISTRUT, OR EQUAL, STEEL CHANNELS AND SUSPENDED FROM RODS SUPPORTED FROM STRUCTURE, SPACED NOT OVER 10' APART FROM CONSTRUCTION ABOVE. WHERE POSSIBLE CONDUITS MAY BE CLAMPED DIRECTLY TO THE STEEL JOISTS.

7. USE RACEWAY FITTINGS THAT ARE OF TYPES COMPATIBLE WITH THE ASSOCIATED RACEWAY AND SUITABLE FOR THE USE AND LOCATION. FOR INTERMEDIATE METAL CONDUIT, USE THREADED RIGID STEEL CONDUIT FITTINGS. FOR EMT CONDUITS: FITTINGS ARE TO BE COMPRESSION OR SET SCREW TYPE.

8. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE NO. 14 AWG ZINC–COATED STEEL OR MONOFILAMENT PLASTIC LINE HAVING NOT LESS THAN 200–LB TENSILE STRENGTH. LEAVE NOT LESS THAN 12 INCHES OF SLACK AT EACH END OF THE PULL WIRE.

9. TELEPHONE AND SIGNAL SYSTEM RACEWAYS 2–INCH TRADE SIZE AND SMALLER: IN ADDITION TO THE ABOVE REQUIREMENTS, INSTALL RACEWAYS IN MAXIMUM LENGTHS OF 150 FEET AND WITH A MAXIMUM OF TWO, 90 BENDS OR EQUIVALENT. INSTALL PULL OR JUNCTION BOXES WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS.

10. ALL CONDUITS ABOVE LAY–IN CEILING SYSTEM SHALL NOT BE SUPPORTED FROM CEILING SUSPENSION WIRES.

11. PROVIDE 36" MINIMUM RADIUS RIGID STEEL CONDUIT ELBOWS FOR PRIMARY SERVICE CONDUITS UNDER THE TRANSFORMER PAD.

12. CONDUITS CAPPED OUTSIDE OF BUILDING FOR FUTURE ADDITION SHALL BE A MINIMUM OF 1'–6" BELOW FINISH GRADE, CAPPED AND PAINTED WITH BITUMINOUS PAINT, WHICH SHALL BE THOROUGHLY DRY, BEFORE BACKFILL IS INSTALLED.

13. METAL CLAD (MC) AND ALUMINUM CLAD (AC) CABLES:

   A. ALL HOMERUNS TO PANELBOARDS SHALL REMAIN IN E.M.T. CONDUIT.
   B. MC AND AC CABLES SHALL NOT BE USED IN EXPOSED AREAS.
   C. ALL FITTINGS SHALL BE LISTED FOR USE WITH MC AND AC CABLE USED.
   D. CONDUCTORS IN MC AND AC CABLE SHALL COMPLY WITH SECTION "WIRES & CABLES".

SECTION 16135 – CABINETS, BOXES AND FITTINGS

1. THIS SECTION INCLUDES CABINETS, BOXES, AND FITTINGS FOR ELECTRICAL INSTALLATIONS AND CERTAIN TYPES OF ELECTRICAL FITTINGS NOT COVERED IN OTHER SECTIONS

2. METAL OUTLET, DEVICE, AND SMALL WIRING BOXES:

   A. GENERAL: CONFORM TO UL 514A, "METALLIC OUTLET BOXES, ELECTRICAL," AND UL 514B, "FITTINGS FOR CONDUIT AND OUTLET BOXES." BOXES SHALL BE OF TYPE, SHAPE, SIZE, AND DEPTH TO SUIT EACH LOCATION AND APPLICATION.

   B. STEEL BOXES: CONFORM TO NEMA OS 1, "SHEET STEEL OUTLET BOXES, DEVICE BOXES, COVERS, AND BOX SUPPORTS." BOXES SHALL BE SHEET STEEL WITH STAMPED KNOCKOUTS, THREADED SCREW HOLES AND ACCESSORIES SUITABLE FOR EACH LOCATION INCLUDING MOUNTING BRACKETS AND STRAPS, CABLE CLAMPS, EXTERIOR RINGS AND FIXTURE STUDS.

   C. CAST–IRON FLOOR BOXES: FULLY ADJUSTABLE, WATERPROOF, WITH THREADED RACEWAY ENTRANCES, RECTANGULAR BOX OPENING, ADJUSTING RINGS, GASKETS, BRASS FLOOR PLATES, AND POLYCARBONATE CARPET FLANGE. WHERE INDICATED, PROVIDE MULTI–SECTION BOXES WITH INDIVIDUAL HINGED SECTION COVERS AND PROVIDE FOR A DUPLEX RECEPTACLE UNDER ONE OR MORE OF THE COVERS.

3. PULL AND JUNCTION BOXES:

   A. COMPLY WITH UL 50, "ELECTRICAL CABINETS AND BOXES", FOR BOXES OVER 100 CUBIC INCHES VOLUME. BOXES SHALL HAVE SCREWED OR BOLTED ON COVERS OF MATERIAL SAME AS BOXES AND SHALL BE OF SIZE AND SHAPE TO SUIT APPLICATION.

   B. STEEL BOXES: SHEET STEEL WITH WELDED SEAMS. WHERE NECESSARY TO PROVIDE A RIGID ASSEMBLY, CONSTRUCT WITH INTERNAL STRUCTURAL STEEL BRACING.

   C. HOT–DIPPED GALVANIZED STEEL BOXES: SHEET STEEL WITH WELDED SEAMS. WHERE NECESSARY TO PROVIDE A RIGID ASSEMBLY, CONSTRUCT WITH INTERNAL STRUCTURAL STEEL BRACING. HOT–DIP GALVANIZED AFTER FABRICATION.

4. CABINETS:

   A. COMPLY WITH UL 50, "ELECTRICAL CABINETS AND BOXES." SHEET STEEL, NEMA 1 CLASS EXCEPT AS OTHERWISE INDICATED. CABINET SHALL CONSIST OF A BOX AND A FRONT CONSISTING OF A ONE–PIECE FRAME AND A HINGED DOOR. ARRANGE DOOR TO CLOSE AGAINST A RABBET PLACED ALL AROUND THE INSIDE EDGE OF THE FRAME, WITH A UNIFORMLY CLOSE FIT BETWEEN DOOR AND FRAME. PROVIDE CONCEALED FASTENERS, NOT OVER 24–INCHES APART, TO HOLD FRONTS TO CABINET BOXES AND PROVIDE FOR ADJUSTMENT. PROVIDE FLUSH OR CONCEALED DOOR HINGES NOT OVER 24–INCHES APART AND NOT OVER 6–INCHES FROM TOP AND BOTTOM OF DOOR. FOR FLUSH CABINETS, MAKE THE FRONT APPROXIMATELY 3/4 INCH LARGER THAN THE BOX ALL AROUND. FOR SURFACE MOUNTED CABINETS MAKE FRONT SAME HEIGHT AND WIDTH AS BOX.

   B. DOORS: DOUBLE DOORS FOR CABINETS WIDER THAN 24–INCHES. TELEPHONE CABINETS WIDER THAN 48–INCHES MAY HAVE SLIDING OR REMOVABLE DOORS.

   C. LOCKS: COMBINATION SPRING CATCH AND KEY LOCK, WITH ALL LOCKS FOR CABINETS OF THE SAME SYSTEM KEYED ALIKE. LOCKS MAY BE OMITTED ON SIGNAL, POWER, AND LIGHTING CABINETS LOCATED WITHIN WIRE CLOSETS AND MECHANICAL–ELECTRICAL ROOMS. LOCKS SHALL BE OF A TYPE TO PERMIT DOORS TO LATCH CLOSED WITHOUT LOCKING.

5. STEEL ENCLOSURES WITH HINGED DOORS:

   A. COMPLY WITH UL 50, "CABINETS AND ENCLOSURES" AND NEMA ICS 6, "ENCLOSURES FOR INDUSTRIAL CONTROLS AND SYSTEMS." SHEET STEEL, 16 GAGE MINIMUM, WITH CONTINUOUS WELDED SEAMS. NEMA CLASS AS INDICATED ARRANGED FOR SURFACE MOUNTING.

   B. DOORS: HINGED DIRECTLY TO CABINET AND REMOVABLE, WITH APPROXIMATELY 3/4–INCH FLANGE AROUND ALL EDGES, SHAPED TO COVER EDGE OF BOX. PROVIDE HANDLE OPERATED, KEY LOCKING LATCH. INDIVIDUAL DOOR WIDTH SHALL BE NO GREATER THAN 24–INCHES. PROVIDE MULTIPLE DOORS WHERE REQUIRED.

   C. ENCLOSURE: WHERE DOOR GASKETING IS REQUIRED, PROVIDE NEOPRENE GASKET ATTACHED WITH OIL–RESISTANT ADHESIVE, AND HELD IN PLACE WITH STEEL RETAINING STRIPS. FOR ALL ENCLOSURES OF CLASS HIGHER THAN NEMA 1, USE HUBBED RACEWAY ENTRANCES.

6. WEATHERPROOF PULL AND SPLICE BOXES:

   A. BOXES TO BE NEMA 12 AND 13 RATED, ALL STEEL CONSTRUCTION CONFORMING TO J.I.C. STANDARD EGP–1–1997. EXTERNAL MOUNTING FEET FOR SURFACE MOUNTING. OIL–RESISTANT GASKET ATTACHED TO INSIDE OF DOOR COVER. CONTINUOUS HINGE AND EXTERNAL SCREW CLAMP FOR QUICK OPENING AND CLOSING.

7. FIRESTOP FOR RECESSED WALL BOXES:

   A. INSTALLATIONS OF MULTIPLE BOXES (LESS THAN 24" APART) WITH MAXIMUM 4–11/16" BY 4–11/16" FLUSH DEVICE UL LISTED METAL OUTLET BOXES IN FIRE RATED GYPSUM WALL BOARD WALL ASSEMBLIES FRAMED WITH MINIMUM 3–1/2" WIDE WOOD OR STEEL STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. 3M #MPP–4S MOLDABLE PUTTY PADS ARE TO BE INSTALLED ON THE EXTERIOR SURFACES OF THE FLUSH DEVICE BOX IN 1 AND 2 HOUR FIRE RATED WALLS AND PARTITIONS.

8. FLOOR BOXES IN SLABS ON GRADE AND WET LOCATIONS TO BE NEMA TYPE 4, CAST–IRON BOXES WITH THREADED HUBS. FLOOR BOXES LOCATED IN SLABS ABOVE GRADE CAN BE STAMPED STEEL. PLASTIC FLOOR BOXES ARE NOT APPROVED.

   A. INSTALL IN CONCRETE FLOOR SLABS SO THEY ARE COMPLETELY ENVELOPED IN CONCRETE EXCEPT FOR THE TOP. WHERE NORMAL SLAB THICKNESS WILL NOT ENVELOP BOX AS SPECIFIED ABOVE, PROVIDE INCREASED THICKNESS OF THE SLAB. PROVIDE EACH COMPARTMENT OF EACH FLOOR BOX WITH GROUNDING TERMINAL CONSISTING OF A WASHER–IN–HEAD MACHINE SCREW, NOT SMALLER THAN NO. 10–32, SCREWED INTO A TAPPED HOLE IN THE BOX. ADJUST COVERS OF FLOOR BOXES FLUSH WITH FINISHED FLOOR.

9. PULL AND SPLICE BOXES LOCATED OUTDOORS OR WHERE INDICATED ON DRAWINGS ARE TO BE WEATHERPROOF TYPE J.I.C. BOXES. CONDUIT TERMINATIONS ARE TO BE ACCOMPLISHED BY USING MEYER HUBS.

10. ELECTRICALLY GROUND METALLIC CABINETS, BOXES, AND ENCLOSURES. WHERE WIRING TO ITEM INCLUDES A GROUNDING CONDUCTOR, PROVIDE A GROUNDING TERMINAL IN THE INTERIOR OF THE CABINET, BOX OR ENCLOSURE.

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SECTION 16140 – WIRING DEVICES

1. THIS SECTION INCLUDES THE FOLLOWING:

   A. RECEPTACLES
   B. LIGHTING AND EQUIPMENT SWITCHES
   C. WALL PLATES
   D. FLOOR SERVICE OUTLETS
   E. OCCUPANCY SENSORS
   F. MANUAL DIMMERS

2. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

   A. WIRING DEVICES & ACCESSORIES:
      A.1. COPPER WIRING DEVICES
      A.2. CROUSE–HINDS CO.
      A.3. HUBBELL INC.
      A.4. LEVITON
      A.5. PASS AND SEYMOUR INC.

   B. FLOOR BOXES:
      B.1. AMERICAN ELECTRIC, STEEL CITY
      B.2. WALKER / WIREMOLD COMPANY
      B.3. RACO, INC., HUBBELL INC.
      B.4. RACEWAY COMPONENTS, INC.

   C. DIMMERS:
      C.1. HUBBELL INC.
      C.5. LEVITON LIGHTING CONTROLS
      C.6. LUTRON LIGHTING

   D. OCCUPANCY SENSOR LIGHTING CONTROL:
      D.1. HUBBELL INC.
      D.2. LEVITON MANUFACTURING INC.
      D.3. WATT STOPPER INC.
      D.4. SENSOR SWITCH
      D.5. GREENGATE

3. WIRING DEVICES:
   A. PROVIDE WIRING DEVICES, IN TYPES, CHARACTERISTICS, GRADES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED WHICH ARE UL LISTED AND WHICH COMPLY WITH NEMA WD 1 AND OTHER APPLICABLE UL AND NEMA STANDARDS. ALL DEVICES TO BE SPECIFICATION GRADE (HEAVY DUTY U.L. GRADE), WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREW, METAL PLASTER EARS AND SIDE TERMINAL SCREWS FOR BACK AND SIDE WIRING.

   B. ALL WIRING DEVICES ARE TO BE PROVIDED BY THE SAME MANUFACTURER UNLESS NOTED OTHERWISE.

   C. ALL WIRING DEVICES AND COVERPLATES SHALL BE:
      C.1. WHITE.
      C.2. WHITE – WHERE INSTALLED IN WHITE CEILINGS.
      C.3. BLACK – WHERE INSTALLED IN DARK CEILINGS.
      C.4. ORANGE – WHERE SUPPLYING A UPS CIRCUIT. (DEVICE ONLY, COVERPLATE SHALL BE AS ABOVE).

   D. RECEPTACLES:
      D.1. DUPLEX RECEPTACLE, 15 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–15R, MEETS FEDERAL SPEC. WC–596–F. LEVITON #5252.

      D.2. SINGLE RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, MEETS FEDERAL SPEC. WC–596–F. LEVITON #5351.

      D.3. DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, MEETS FEDERAL SPEC. WC–596–F. LEVITON #5352.

      D.4. GROUND FAULT INTERRUPTER RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R. UL943 APPROVED, SELF–TESTING, SOLID STATE GROUND FAULT SENSING LEVEL WITH 5 MILLIAMPERES GROUND FAULT TRIP LEVEL. LED INDICATOR LIGHT WITH TEST/RESET BUTTONS THAT MATCH THE COLOR OF THE FACE. LEVITON #G5362–WT*.

      D.5. USB RECEPTACLE, 20A, 125V, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, (2) VERTICAL USB PORTS WITH 3.6A CHARGING CAPACITY (MINIMUM), MEETS FEDERAL SPEC. WC–596–F. LEVITON #T5832
      D.5.1. WHERE SHOWN AS A QUAD RECEPTACLE ON PLANS, PROVIDE (2) USB RECEPTACLES AS SPECIFIED ABOVE.

      D.6. WEATHERPROOF RECEPTACLE SHALL BE A GROUND–FAULT INTERRUPTER WITH THOMAS & BETTS #CKSUV DIE–CAST ALUMINUM 'SMALL' COVER PLATE. LOCATE BOX VERTICAL IN WALL. PLATE TO BE LISTED AND LABELED 'SUITABLE FOR WET LOCATIONS WHILE IN USE.

      D.7. ISOLATED GROUND DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, FACE WITH ORANGE TRIANGLE, GROUND SCREW ISOLATED FROM MOUNTING YOKE, NEMA CONFIGURATION 5–20RIG. LEVITON #5362–IG.

      D.8. CONTROLLED DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, 2–POLE, 3–WIRE, GROUNDING TYPE WITH NEMA CONFIGURATION 5–20R, PERMANENTLY LABELED WITH CONTROLLED SYMBOL, MEETS FEDERAL SPEC. WC–596–F. LEVITON #5362–2.
      D.8.1. WHERE SHOWN AS A QUAD RECEPTACLE ON PLANS, PROVIDE (1) CONTROLLED RECEPTACLE AND (1) DUPLEX RECEPTACLE AS SPECIFIED ABOVE.

      D.9. HEAVY DUTY RECEPTACLES SHALL BE OF THE SAME MANUFACTURER AS THE CONVENIENCE OUTLETS AND HAVE THE RATINGS AND CHARACTERISTICS (VOLTAGE, AMPS, POLES, WIRES) AS SHOWN ON DRAWINGS.

   E. SWITCHES:
      E.1. TOGGLE TYPE SWITCH, 20 AMP, 120/277 VOLT AC SINGLE–POLE, QUITE TYPE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE–WIRED SCREW TERMINALS, MEETS FEDERAL SPEC WS–896. LEVITON #1121–2.
      E.1.1. DOUBLE–POLE, 3–WAY, AND 4–WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE–POLE.

      E.2. KEY TYPE SWITCH, 20 AMP, 120/277 VOLT AC SINGLE–POLE, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SIDE–WIRED SCREW TERMINALS, POLISHED METAL TOP AND PROVIDE WITH ONE STEEL KEY. LEVITON #1121–2L.
      E.2.1. DOUBLE–POLE, 3–WAY, AND 4–WAY SWITCHES SHALL BE OF THE SAME MAKE AS FOR SINGLE–POLE.

      E.3. WHEN A LIGHTED HANDLE IS INDICATED WITH SWITCHING DEVICE, PROVIDE SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED 120/277 VOLT. GLOWS WHEN SWITCH IS "OFF". PASS & SEYMOUR #20AC1–CSL.

      E.4. WHEN A PILOT LIGHT IS INDICATED WITH SWITCHING DEVICE, PROVIDE SWITCH DEVICE WITH 1/25 WATT NEON PILOT INTEGRAL WITH TOGGLE HANDLE, RATED 120/277 VOLT. GLOWS WHEN SWITCH IS "ON". PASS & SEYMOUR #20AC1–RPL.

   F. FLOOR RECEPTACLES:
      F.1. TYPE 'A': HUBBELL #B–2436, RECTANGULAR SINGLE–GANG, WATERTIGHT BOX WITH ONE S–3825 DUPLEX FLAP COVER. BOX COVER PLATE SHALL BE BRASS. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS. EACH FLOOR OUTLET SHALL BE COMPLETE WITH ONE 20 AMP, 125 VOLT DUPLEX BROWN RECEPTACLE AS SPECIFIED UNDER "RECEPTACLES".

      F.2. TYPE 'B': HUBBELL #B–4233, RECTANGULAR DOUBLE–GANG, FULLY ADJUSTABLE, WATERTIGHT BOX WITH ONE S–3825 DUPLEX FLAP COVER COMPLETE WITH ONE 20 AMP, 125 VOLT DUPLEX BROWN RECEPTACLE AS SPECIFIED UNDER "RECEPTACLES". ALSO PROVIDE ONE #S–2625 COVER PLATE WITH ONE #S–3067 SPLIT NOZZLE FOR PROTECTION OF TELEPHONE/COMPUTER CABLES. BOX COVER PLATES SHALL BE BRASS. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS.

      F.3. TYPE 'C': HUBBELL #B–2436, RECTANGULAR SINGLE–GANG BOX, BRASS PLATE #S2425 WITH 3/4 PLUG OPENING FOR CONNECTION OF FLEXIBLE CONDUIT FROM EQUIPMENT. COVER TO BE PROVIDED WITH BRASS CARPET FLANGE FOR FLUSH INSTALLATION IN LINOLEUM, WOOD OR CARPET FLOORS.

   G. WALL PLATES: SINGLE AND COMBINATION, OF TYPES, SIZES, AND WITH GANGING AND CUTOUTS AS INDICATED. PROVIDE PLATES WHICH MATE WITH WIRING DEVICES TO WHICH ATTACHED. PROVIDE METAL SCREWS FOR SECURING PLATES TO DEVICES WITH SCREW HEADS TO MATCH FINISH OF PLATES. PROVIDE WALL PLATES WITH ENGRAVED LEGEND WHERE INDICATED. CONFORM TO REQUIREMENTS

SECTION 16140 – WIRING DEVICES

OF SECTION "ELECTRICAL IDENTIFICATION."

   H. OCCUPANCY SENSOR LIGHTING CONTROL:
      H.1. WALL MOUNTED OCCUPANCY SENSOR TO BE PASSIVE INFRARED COVERING 1200 (OR 900) SQUARE FEET, RATED FOR 120/277 VOLT, 1500 WATTS MAXIMUM LOAD OF INCANDESCENT OR FLUORESCENT LIGHT. SENSOR TO HAVE 180° FIELD OF VIEW, OFF/AUTO/ON SLIDE SWITCH, ADJUSTABLE TIME–OUT FROM 1 TO 20 MINUTES, AND LED MOVEMENT INDICATOR PILOT. SENSOR TO BE MOUNTED IN A SINGLE–GANG WALL BOX AT SAME ELEVATION AS STANDARD WALL SWITCHES.
      H.1.1. WATT STOPPER #PW–100 SINGLE REALY (OR #PW–200 DUAL RELAY).

      H.2. CEILING MOUNTED OCCUPANCY SENSOR TO BE DUAL TECHNOLOGY WITH ULTRASONIC & PASSIVE INFRARED TYPE SENSORS. SENSORS TO HAVE TWO–WAY OR ONE–WAY DISTRIBUTION DEPENDING ON MOUNTING LOCATION CAPABLE OF ADJUSTING THE SENSITIVITY AND LENGTH OF OPERATION BASED ON PAST ACTIVITY LEVEL OF THE AREA'S OCCUPANTS. CUSTOM PERFORMANCE CONTROLS TO BE LOCATED BEHIND THE SENSOR LENS FOR FIELD MODIFICATION OF SENSOR DESIGN. UNIT TO BE MOUNTED TO RECESSED JUNCTION BOX.
      H.2.1. WATT STOPPER #DT–355, 800W @ 120V (1200W @ 277V)

   I. MANUAL DIMMERS:
      I.1. PROVIDE AND INSTALL AC DIMMER CONTROLS FOR LIGHTING FIXTURES; WATTAGE AS INDICATED BELOW. 120 VOLT, 60 HERTZ, WITH PRESET SLIDE CONTROLS AND PUSHBUTTON FOR ON/OFF CONTROLS, SINGLE–POLE.:
      I.1.1. ID1 = 1000 WATTS, LEVITON #IPI10–1LX (120/277V INCANDESCENT)
      I.1.2. D1 = 1200/1500 VA, LEVITON #IP710–LFZ (120/277V LED)
      I.1.3. LD2 = 400 VA, LEVITON #IPE04–1LX (ELECTRONIC LOW VOLTAGE)
      I.1.4. LD3 = 1000 VA, LEVITON #IPM10–1LX (MAGNETIC LOW VOLTAGE)
      I.1.5. FD1 = 1200/1500 VA, LEVITON #IP710–DLX (120/277V FLUORESCENT 0–10V)
      I.1.6. FD2 = 1000 VA, LEVITON #IPX10–10 (120V FLUORESCENT LINE VOLTAGE)
      I.1.7. FD3 = 1200 VA, LEVITON #IPX12–70 (277V FLUORESCENT LINE VOLTAGE)

4. INSTALLATION OF WIRING DEVICES AND ACCESSORIES:

   A. GROUPS OF SWITCHES OR SWITCH AND OUTLET COMBINATIONS SHALL BE MOUNTED UNDER ONE COVER PLATE. COVER PLATES SHALL FIT THE DEVICES SECURELY AND SHALL COVER THE WALL OPENING COMPLETELY TO PROVIDE A NEAT AND FINISHED APPEARANCE FLUSH WITH SURROUNDING SURFACES.

   B. TERMINALS ON ALL WIRING DEVICES SHALL NOT BE USED TO FEED–THROUGH TO THE NEXT DEVICES.

   C. INSTALL WALL–MOUNTED RECEPTACLES WITH GROUND SLOT UP.

   D. RECEPTACLE MOUNTED ABOVE COUNTER–TOP TO BE INSTALLED HORIZONTAL, WITH LONG DIMENSION PARALLEL TO FLOOR AND COUNTER–TOP.

SECTION 16180 – FUSES

1. MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS OF ONE OF THE FOLLOWING (FOR EACH TYPE AND RATING OF OVERCURRENT PROTECTIVE DEVICE):

   A. BUSSMANN DIV; MCGRAW_EDISON CO.
   B. FERRAZ SHAWMUT, INC.
   C. LITTELFUSE, INC.

2. EXCEPT AS OTHERWISE INDICATED, PROVIDE FUSES OF TYPES, SIZES, RATINGS, AND AVERAGE TIME/CURRENT AND PEAK LET–THROUGH CURRENT CHARACTERISTICS INDICATED, WHICH COMPLY WITH MANUFACTURER'S STANDARD DESIGN, MATERIALS, AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED PRODUCT INFORMATION, AND WITH INDUSTRY STANDARDS AND CONFIGURATIONS. ALL FUSES TO BE FOR USE WITH FUSE REJECTION CLIPS.

3. ALL FUSES FOR THIS PROJECT SHALL BE OF THE SAME MANUFACTURER TO INSURE SELECTIVE COORDINATION.

4. EXCEPT WHERE NOTED OTHERWISE, THREE (3) SPARE FUSES OF EACH SIZE INSTALLED SHALL BE PROVIDED TO THE OWNER.

5. INSTALL FUSES WITH MANUFACTURER'S NAMETAG FACING OUTWARD.

6. SERVICE ENTRANCE AND FEEDER CIRCUITS 601 AMPERES AND LARGER, FUSES SHALL BE BOLT–ON U.L. LISTED CLASS L, CURRENT–LIMITING WITH 200,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING.

7. FEEDER CIRCUITS, EXCEPT MOTOR CIRCUITS, 600 AMPERES AND SMALLER SHALL BE PLUG–IN CARTRIDGE U.L. CLASS RK–1, CURRENT–LIMITING WITH 200,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING.

8. MOTOR, TRANSFORMERS, AND INDUCTIVE TYPE CIRCUITS 600 AMPERES AND SMALLER SHALL BE PLUG–IN CARTRIDGE U.L. CLASS RK–5 DUAL–ELEMENT WITH TIME DELAY. THEY SHALL ALSO HAVE CURRENT–LIMITING LINKS AND 200,000 AMPERES INTERRUPTING RATING. FUSE REDUCERS SHALL BE USED WHERE SWITCH FUSE CLIPS ARE SPACED LARGER THAN FUSE SIZE SHOWN ON DRAWING.

9. PLUG FUSES FOR INDIVIDUAL MOTOR PROTECTION SHALL BE BUSSMANN FUSTAT, DUAL–ELEMENT, 10,000 AMPERES R.M.S. SYMMETRICAL INTERRUPTING RATING, TYPE "S" WITH FUSTAT ADAPTER SIZED FOR PLUG–FUSE INSTALLED. SIZE OF FUSE TO BE ACCORDING TO SPECIFICATIONS FOR "DISCONNECT SWITCHES".

SECTION 16190 – SUPPORTING DEVICES

1. THIS SECTION INCLUDES SECURE SUPPORT FROM THE BUILDING STRUCTURE FOR ELECTRICAL ITEMS BY MEANS OF HANGERS, SUPPORTS, ANCHORS, SLEEVES, INSERTS, SEALS, AND ASSOCIATED FASTENINGS.

2. COATING: SUPPORTS, SUPPORT HARDWARE, AND FASTENERS SHALL BE PROTECTED WITH ZINC COATING OR WITH TREATMENT OF EQUIVALENT CORROSION RESISTANCE USING APPROVED ALTERNATIVE TREATMENT, FINISH, OR INHERENT MATERIAL CHARACTERISTIC. PRODUCTS FOR USE OUTDOORS SHALL BE HOT–DIP GALVANIZED.

3. INSTALL SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.

4. SUPPORT INDIVIDUAL HORIZONTAL RACEWAYS BY SEPARATE PIPE HANGERS. SPRING STEEL FASTENERS MAY BE USED IN LIEU OF HANGERS ONLY FOR 3/4–INCH AND SMALLER RACEWAYS SERVING LIGHTING AND RECEPTACLE BRANCH CIRCUITS ABOVE SUSPENDED CEILINGS ONLY. FOR HANGER RODS WITH SPRING STEEL FASTENERS, USE 1/4–INCH–DIAMETER OR LARGER THREADED STEEL. USE SPRING STEEL FASTENERS THAT ARE SPECIFICALLY DESIGNED FOR SUPPORTING SINGLE CONDUITS OR TUBING. CONDUITS ABOVE LAY–IN CEILING SYSTEM SHALL NOT BE SUPPORTED FROM CEILING SUSPENSION WIRES.

5. INSTALL INDIVIDUAL AND MULTIPLE (TRAPEZE) RACEWAY HANGERS AND RISER CLAMPS AS NECESSARY TO SUPPORT RACEWAYS. PROVIDE U–BOLTS, CLAMPS, ATTACHMENTS AND OTHER HARDWARE NECESSARY FOR HANGER ASSEMBLY AND FOR SECURING HANGER RODS AND CONDUITS.

6. SUPPORT PARALLEL RUNS OF HORIZONTAL RACEWAYS TOGETHER ON TRAPEZE–TYPE HANGERS

7. DO NOT CUT HOLES IN REINFORCED CONCRETE BEAMS OR CUT REINFORCING BARS IN CONCRETE WITH OUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

8. UNLESS OTHERWISE INDICATED, FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTING HARDWARE SECURELY TO THE BUILDING STRUCTURE, INCLUDING BUT NOT LIMITED TO CONDUITS, RACEWAYS, CABLES, CABLE TRAYS, BUSWAYS, CABINETS, PANELBOARDS, TRANSFORMERS, BOXES, DISCONNECT SWITCHES, AND CONTROL COMPONENTS.

SECTION 16410 – DISCONNECTS, CONTACTORS

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

   A. GENERAL ELECTRIC CO.
   B. SQUARE D COMPANY.
   C. EATON CORPORATION
   D. SIEMENS, I.T.E.
   E. ALLEN–BRADLEY CO.
   F. FURNAS CO.

2. TEMPERATURE RATINGS: ALL CONDUCTOR TERMINALS AND EQUIPMENT ENCLOSURES TO BE U.L. LISTED FOR USE WITH MINIMUM 75C RATED CONDUCTORS.

3. DISCONNECT SWITCHES:

   A. PROVIDE CIRCUIT AND MOTOR DISCONNECT SWITCHES OF TYPES, SIZES AND ELECTRICAL CHARACTERISTICS INDICATED ON DRAWING. FUSIBLE OR NON–FUSED TYPE, RATED 250 OR 600 VOLTS, 60 HZ, 2– OR 3–POLES, SOLID NEUTRAL; AND INCORPORATING QUICK–MAKE, QUICK–BREAK TYPE SWITCHES; CONSTRUCT SO THAT SWITCH BLADES ARE VISIBLE IN OFF POSITION WITH DOOR OPEN. SWITCH SHALL HAVE A DUAL COVER INTERLOCK TO PREVENT UNAUTHORIZED OPENING OF THE SWITCH DOOR WHEN HANDLE IS IN THE "ON" POSITION, AND TO PREVENT CLOSING OF THE SWITCH MECHANISM WITH THE DOOR OPEN. EQUIP WITH OPERATING HANDLE WHICH IS INTEGRAL PART OF ENCLOSURE BASE AND WHOSE POSITION IS EASILY RECOGNIZABLE, AND IS PADLOCKABLE IN OFF POSITION; CONSTRUCT CURRENT CARRYING PARTS OF HIGH–CONDUCTIVITY COPPER, WITH SILVER–TUNGSTEN TYPE SWITCH CONTACTS, AND POSITIVE PRESSURE TYPE REINFORCED FUSE CLIPS. PROVIDE SWITCH IN NEMA 1 OR NEMA TYPE 3R ENCLOSURE AS INDICATED OR REQUIRED. INSTALL ENGRAVED PLASTIC PLATE AS TO WHAT EACH SWITCH CONTROLS.

   B. EQUIPMENT REQUIRING A DISCONNECTING MEANS, RATED FOR 120 OR 208 VOLT SINGLE PHASE, UP TO 30 AMPERES MAY BE PROVIDED WITH A SNAP–SWITCH TYPE TOGGLE DEVICE AT THE EQUIPMENT. THE DEVICE IS TO HAVE AN AMPERE AND VOLTAGE RATING EQUAL TO OR GREATER THAN THE BRANCH CIRCUIT FEEDING THE EQUIPMENT. IF EQUIPMENT IS MOTOR RELATED, THEN THE SWITCH MUST BE HORSEPOWER RATED. REFER TO SECTION 16140 FOR MINIMUM SPECIFICATIONS FOR TOGGLE SWITCHES. SWITCHES LOCATED OUTDOORS OR IN COOLER/FREEZER APPLICATIONS ARE TO BE MOUNTED IN A DIE–CAST ALUMINUM DEVICE BOX WITH GASKETED WEATHERPROOF COVER PLATE.

4. RELAYS AND CONTACTORS:

   A. GENERAL POWER PURPOSE RELAYS, FOR CONTROL OF MISCELLANEOUS MOTORS, TO BE PROVIDED AND INSTALLED WITH NUMBER OF POLES AND COIL VOLTAGE AS SHOWN ON DRAWINGS. RELAY TO BE HORSEPOWER RATED FOR THE MOTOR LOAD TO WHICH IT CONTROLS. RELAY TO BE MOUNTED IN A NEMA TYPE 1 ENCLOSURE.

   B. LIGHTING CONTACTORS TO BE PROVIDED AND INSTALLED WITH THE NUMBER OF POLES, COIL VOLTAGE, AND LOAD CONTACT RATINGS AS SHOWN ON DRAWINGS. CONTACTORS TO BE PROVIDED WITH SILVER ALLOY DOUBLE BREAK CONTACTS RATED FOR TUNGSTEN AND BALLAST LIGHTING LOADS. CONTACTS TO BE CONVERTIBLE WITH NORMALLY OPEN AND NORMALLY CLOSED INDICATORS. RELAY TO BE MOUNTED IN A NEMA TYPE 1 ENCLOSURE.

6. INSTALLATION OF DISCONNECTS AND STARTERS:

   A. SURFACE MOUNT ON WALLS OR COLUMNS APPROXIMATELY 5'–0" TO CENTERLINE ABOVE THE FLOOR WHERE POSSIBLE.

   B. DISCONNECT SWITCHES MOUNTED ON ROOFTOP AIR CONDITIONING UNITS TO BE CAULKED BETWEEN SWITCH AND UNIT TO PROVIDE WEATHERPROOF SEAL. ELECTRICAL CONTRACTOR TO VERIFY EXACT MOUNTING LOCATION ON UNIT SO AS NOT TO COVER UP ANY REMOVABLE PANELS.

   C. WHEN RELAYS OR CONTACTORS ARE INDICATED TO BE LOCATED ABOVE THE CEILING, THE EQUIPMENT IS TO BE READILY ACCESSIBLE AND SOUND INSULATED FROM THE MOUNTING SUPPORTS.

SECTION 16470 – PANELBOARDS

1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PANELBOARD PRODUCTS OF ONE OF THE FOLLOWING (FOR EACH TYPE AND RATING OF PANELBOARD AND ENCLOSURE):

   A. GENERAL ELECTRIC COMPANY
   B. SQUARE D COMPANY
   C. EATON CORPORATION
   D. SIEMEN'S, I.T.E.

2. POWER DISTRIBUTION PANELS: PROVIDE DEAD–FRONT SAFETY–TYPE DISTRIBUTION PANELBOARDS RATED 208/120, 3–PHASE, 4–WIRE. SHORT CIRCUIT RATING OF PANEL AND DEVICES TO BE 22,000 RMS MINIMUM UNLESS NOTED OTHERWISE ON THE DRAWINGS. PANELBOARDS SWITCHING AND PROTECTIVE DEVICES IN SOLDERLESS PRESSURE–TYPE LINE SIDE CONNECTORS APPROVED FOR COPPER CONDUCTORS.

3. 120/208 VOLT LIGHTING AND APPLIANCE PANELBOARDS: PROVIDE DEAD–FRONT SAFETY TYPE LIGHTING AND APPLIANCE PANELBOARDS AS INDICATED, WITH SWITCHING AND PROTECTIVE DEVICES IN QUANTITIES, RATINGS, TYPES AND ARRANGEMENTS SHOWN, WITH ANTI–TURN SOLDERLESS PRESSURE TYPE LUG CONNECTORS. APPROVED FOR USE WITH COPPER CONDUCTORS; CONSTRUCT UNIT FOR CONNECTING FEEDERS TO PANEL; EQUIP WITH COPPER, COPPER PLATED OR ALUMINUM BUS BARS, FULL–SIZED NEUTRAL BAR, WITH BOLT–IN TYPE HEAVY–DUTY, QUICK–MAKE, QUICK–BREAK, SINGLE–POLE CIRCUIT–BREAKERS, WITH TOGGLE HANDLES THAT INDICATE WHEN TRIPPED. PROVIDE SUITABLE LUGS ON NEUTRAL BUS FOR EACH OUTGOING FEEDER REQUIRED; AND PROVIDE BARE UNINSULATED GROUNDING BARS SUITABLE FOR BOLTING TO ENCLOSURES. SELECT ENCLOSURES FABRICATED BY SAME MANUFACTURER AS PANELBOARDS, WHICH MATE AND MATCH PROPERLY WITH PANELBOARDS. MINIMUM INTERRUPTING CAPACITY OF MANUFACTURED PANELBOARDS TO BE 10,000 A.I.C, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

4. MOLDED–CASE CIRCUIT BREAKERS: PROVIDE FACTORY ASSEMBLED, MOLDED CASE CIRCUIT BREAKERS OF FRAME SIZE INDICATED. PROVIDE BREAKERS WITH PERMANENT THERMAL AND INSTANTANEOUS MAGNETIC TRIPS IN EACH POLE AND AMPERE RATING AS INDICATED. CONSTRUCT WITH OVER CENTER, TRIP–FREE, TOGGLE TYPE OPERATING MECHANISMS WITH QUICK–MAKE, QUICK–BREAK ACTION AND POSITIVE HANDLE INDICATION. CONSTRUCT BREAKERS FOR MOUNTING AND OPERATING IN ANY PHYSICAL POSITION AND OPERATING IN AN AMBIENT TEMPERATURE OF 40C. PROVIDE BREAKERS WITH MECHANICAL SCREW TYPE REMOVABLE CONNECTOR LUGS, AL/CU RATED. ALL BREAKERS TO BE BOLT–IN TYPE CONSTRUCTION. ALL BREAKERS TO BE UL489 LISTED.

   A. ALL SINGLE POLE BREAKERS TO BE RATED FOR "SWITCHING DUTY" (SWD) AND FOR OPERATION ON FLUORESCENT LIGHTING SOURCES.

   B. ALL CIRCUIT BREAKERS PROTECTING HIGH INTENSITY DISCHARGE (HID) LIGHTING TO BE RATED AND LABELED 'HID' FOR OPERATION ON H.I.D. LIGHTING SOURCES

   C. CIRCUIT BREAKERS USED ON HEATING, AIR CONDITIONING, OR REFRIGERATION EQUIPMENT SHALL BE TYPE 'HACR' AND U.L. LISTED FOR SUCH USE.

5. PANELBOARD MANUFACTURER TO PROVIDE A COMPLETE "ARC FLASH STUDY". ALL SUBMITTALS WILL BE REJECTED UNLESS THIS STUDY IS PROVIDED AT THE TIME OF SHOP DRAWING REVIEW.

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PROJECT

7-ELEVEN 42655 CST

1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

ELECTRICAL SPECIFICATIONS

ISSUE REVISIONS

NO.	DATE	DESCRIPTION
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SEAL

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO, JR

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ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ABV	ABOVE
AC	AIR CURTAIN
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
@	AT
AFMS	AIR FLOW MEASURING STATION
AS	AIR SEPARATOR
ATG	ADC TRANSFER GRILL
AV	AUTOMATIC AIR VENT
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BC	BRANCH CONTROLLER
BDD	BACKDRAFT DAMPER (GRAVITY)
BDR	BASEBOARD RADIATOR
BEL	BELOW
BFP	BACKFLOW PREVENTION DEVICE
BHP	BRAKE HORESPOWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	COMPRESSED AIR
CC	COOLING COIL
CD	CEILING DIFFUSER /CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CLG	CEILING
℄	CENTER LINE
COND	CONDENSATE
COP	COEFFICIENT OF PERFOMANCE
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME / CONTROL VALVE
CW	DOMESTIC COLD WATER
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
DB	DRY BULB TEMPATURE
DC	DRY COOLER
°F	DEGREE FAHRENHEIT
DH	DEHUMIDIFIER
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DP	DIFFERENTIAL PRESSURE
DX	DX COOLING COIL
EA	EXHAUST AIR
EA.	EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENT RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE (LESS DAMPER)
EL	ELEVATION
ER	EXHAUST REGISTER
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXT	EXTERNAL
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FL	FLOOR
FLEX	FLEXIBLE
FO	FLAT OVAL
FPM	FEET PER MINUTE
FPMB	FAN POWERED MIXING BOX
FSD	FIRE SMOKE DAMPER
FT	FEET
FT²	SQUARE FEET
FTR	FINNED TUBE RADIATOR
GAL	GALLON
GC	GENERAL CONTRACTOR
GIH	GRAVITY INTAKE HOOD
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GRH	GAS RADIANT HEATER
GS	GLYCOL SUPPLY
GUH	GAS UNIT HEATER
GV	GRAVITY VENTILATOR
H	HUMIDIFIER
HC	HEATING COIL
HCWR	DUAL TEMPERATURE RETURN
HCWS	DUAL TEMPERATURE SUPPLY
HGRH	HOT GAS REHEAT
HP	HEAT PUMP / HORSEPOWER
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HR	HOUR
HRC	HEAT RECOVERY COIL
HRV	HEAT RECOVERY VENTILATOR
HW	HOT WATER
HWR	HW RECIRC/HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IN W.C.	INCHES WATER COLUMN
ISP	INTERNAL STATIC PRESSURE
IRH	INFRARED RADIANT TUBE HEATER
KEF	KITCHEN EXHAUST FAN
KH	KITCHEN EXHAUST HOOD
KW	KILOWATT
L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT
LG	LENGTH
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
LWT	LEAVING WATER TEMPATURE
MAT	MIXED AIR TEMPERATURE
MAU	MAKEUP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSANDS OF BTU PER HOUR
MCA	MINIMUM CURRENT AMPACITY
MIN	MINIMUM
M.O.D.	MOTOR OPERATED DAMPER
MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OBD	OPPOSED BLADE DAMPER
OED	OPEN END DUCT
P	PUMP
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP
PDH	POOL ROOM DEHUMIDIFIER
PH	PHASE
PPM	PARTS PER MILLION
PRV	PRESSURE RELIEF VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RF	RETURN AIR FAN / RELIEF AIR
RG	RETURN GRILLE (LESS DAMPER)
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RLFA	RELIEF AIR
RM.	ROOM
RR	RETURN REGISTER (WITH DAMPER)
RTU	ROOFTOP AIR HANDLING UNIT
RX	REMOVE EXISTING
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SD	SUPPLY DIFFUSER/SMOKE DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FOOT
SPEC.	PROJECT SPECIFICATIONS
SPF	STAIR PRESSURIZATION FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
STRUCT.	STRUCTURAL
TEMP	TEMPERATURE
TF	TRANSFER FAN
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VOLT
VAC	VOLTS ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME TERMINAL
VD	VOLUME DAMPER
VEH	VEHICLE EXHAUST
VFD	VARIABLE FREQUENCY DRIVE
VP	VELOCITY PRESSURE
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS
W/	WITH
W/O	WITHOUT
WB	WET BULB
WG	WATER GAUGE
WSHP	WATER SOURCE HEAT PUMP

GENERAL NOTES

GENERAL MECHANICAL REQUIREMENTS

1. Materials, equipment, and systems shall meet all pertinent requirements of the Underwriters Laboratory (UL), the American Society for Testing Materials (ASTM), American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE), Sheet Metal and Air Conditioning Contractors National Association (SMACNA), American Gas Association (AGA), National Fire Protection Association (NFPA)and other nationally recognized agencies as well as the latest adopted edition of state and local code procedures, methods, and requirements, including the most stringent of health and safety standards as required and as interpreted by the authority having jurisdiction. Applicable codes and standards include, but are not limited to the following: "international plumbing, building, energy, mechanical, and fuel gas codes" applicable local and municipal codes and ordinances.
2. Bidders shall be licensed contractors in accordance with local and state laws.
3. Bidders shall thoroughly acquaint themselves with the conditions under which the work is to be performed. They shall examine all services, equipment, surfaces, etc., which this work is in any way dependent upon, and bring any discrepancies determined or omissions found in the drawings to the owner's attention before submitting bid. Verify all dimensions by field measurements.
4. The systems shown on the drawings shall be provided to serve all fixtures, equipment, and areas within the Contract Limit Lines as set forth by the Architectural solution for the project. The bidding and contract requirements, general requirements, and general provisions shall apply to this section. Systems shall include all equipment, appurtenances, safety devices, and controls necessary for the intended service.
5. All permits and fees required for this work shall be secured and paid for by the mechanical contractor and included in bid price.
6. Anything drawn or specified on these plans shall not be construed to conflict with any local, municipal or state law, regulation or ordinance which governs the installation of any mechanical or related work. Where any portion of the systems is not installed as in accordance with applicable laws, ordinances, regulations and codes, this contractor shall make all changes required by the enforcing authorities in a manner approved by the owner and without additional cost to the owner. Where plan requirements are more stringent than code, the installation shall be in accordance with the plans.
7. Where job conditions require changes from the contract documents that do not change the scope of installation or nature of work required, the contractor shall make such changes without additional cost to the owner. No other changes may be made without written permission of the owner.
8. All equipment shall be new and unused, UON, and shall bear the label of an approved agency. All equipment shall be installed in strict conformance to manufacturer's instructions, except where these specifications require a higher quality installation than recommended by manufacturer. All mechanical equipment shall be provided with installation instructions, which shall be made available at the job site.
9. All installed systems, devices and related items shall be tested in place on site. Replace any and all contractor-supplied defective devices, items or systems at contractor's own expense before completion of the project. Report any problems with existing to remain (ETR) items to owner for resolution.
10. Contractor shall guarantee all work for which materials are furnished, fabricated or field erected, all factory assembled equipment for which no specific manufacturer's guarantee is furnished, and all work in connection with installing manufacturer's guaranteed equipment. This contractor's guarantee shall exist for a period of one (1) year from the date of final owner acceptance of the work and shall apply to defects in material and to defective workmanship of any kind.
11. Contractor shall replace at contractor's own expense any contractor-supplied materials, equipment, and related items that fail or are found to be defective within the guarantee period.
12. Arrange for chases, slots, and openings in other building components to allow for mechanical installations. Coordinate the installation of required supporting devices and sleeves to be set in poured in place concrete and other structural components, as they are constructed. Coordinate the cutting and patching of building components to accommodate installation of mechanical equipment and materials.
13. Sequence, coordinate, and integrate installations of mechanical materials and equipment for efficient flow of the Work. Give particular attention to large equipment requiring positioning prior to closing-in the building.
14. Coordinate mechanical equipment and materials installation with other building components. Coordinate the installation of mechanical materials and equipment above ceilings with suspension system, light fixtures, and other installations.
15. Equipment locations, roof & wall openings are approximate: verify size and coordinate with G.C., equipment supplier, and owner. Provide steel framing around roof opening(s) where required and around wall opening(s) where required.
16. Do not endanger or damage installed Work through procedures and processes of cutting and patching. Arrange for repairs required to restore other work, because of damage caused as a result of mechanical installations.
17. Where mounting heights are not detailed or dimensioned, install mechanical services and overhead equipment to provide the maximum headroom possible.
18. Install mechanical equipment to facilitate maintenance and repair or replacement of equipment components. As much as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations.
19. For all air systems: adjust fans, supply register dampers, and duct volume dampers as needed to balance all systems to match listed airflows (+/- 10%), and provide a written summary report. Replace fan drive if required to achieve design airflows. Air balance shall be performed by an independent AABC or NEBB certified firm. Summary report shall include design, preliminary and final airflow data, and shall include a list of deficiencies.
20. For all water systems: adjust ball valves, balance valves, pumps, etc, as needed to balance all piping to match GPM and pressure and temperature ranges shown, and provide a written summary report. Water system balance shall be performed by an independent AABC or NEBB certified firm. Summary report shall include design, preliminary and final flow data, and shall include a list of deficiencies.
21. The entire installation, including the gauges of ductwork, shall be in strict compliance with SMACNA standards, except where these specifications require a stricter installation standard. System is 1" pressure class, UON. All ducts shall be sealed to meet SMACNA Class A requirements, and shall be supported at intervals not exceeding 10'. Sealant shall be UL-181A or 181B certified.
22. All 90 degree turns in supply and return ductwork shall be mitered elbows with single wall turning vanes at 2" spacing extended in the direction of airflow, or smooth radius elbows with a radius-to-width ratio of 1.0 or greater. Mitered elbows without turning vanes, square-throat radiused-heel elbows, and radiused-throat square-heel elbows are NOT acceptable. All duct transitions shall be smooth (30 degree taper maximum), not abrupt.
23. All supply and return and outside air ducts inside the building thermal envelope shall be insulated with 1.5"fiberglass duct insulation. All supply and return ductwork outside the building thermal envelope shall be insulated with 3" fiberglass duct insulation (minimum R-8 "installed"value). Insulation shall be fiberglass wrap with scrim-reinforced foil backing. Seal all joints and punctures to preserve vapor barrier.
24. Duct smoke detectors and accessories shall be UL tested and listed. Equipment and installation shall meet all pertinent requirements of the mechanical code and NFPA 72. Duct smoke detectors located more than 10 ft above the finished floor, or located such that the detector's alarm indicator is not visible to responding personnel, shall be provided with remote alarm indicators. Each remote indicator shall be clearly labeled as to function and air handling unit served, with an acrylic engraved nameplate.
25. All curtain-type fire dampers shall be UL 555 listed and dynamic rated, except that static rated fire dampers shall be permitted where the air handling system is automatically shut down in the event of fire. Provide and install duct access panel with acrylic engraved nameplate for each fire damper.
26. All diffusers and grilles shall be factory finished white, unless otherwise noted.
27. All mechanical equipment shall have vibration isolators, as well as flexible duct connectors. Flexible connectors shall be UL 181 tested and labeled, and shall not exceed 14" in length. Mechanical fasteners and sealants shall be used to connect ducts to mechanical equipment.
28. All duct coverings, linings, tape and vibration isolation connectors shall have a maximum flame spread rating of 25, and a maximum smoke generation rating of 50.
29. All duct dimensions listed on plans are inside clear dimensions. Where internally lined ductwork is specified, adjust sheet metal dimensions to accommodate liner.
30. Flexible ducts shall not exceed 6' in length, nor shall they be installed where they must be flattened. Flexible ducts shall be UL 181 tested and labeled, and must be fastened per SMACNA standards. If job conditions do not permit proper installation of flexible duct, rectangular galvanized steel duct with equal free area shall be used instead. Flexible ducts shall not be used where exposed, or where concealed above drywall or plaster ceilings.
31. Provide volume dampers at each branch off of a trunk duct to a supply diffuser.
32. Ductwork is shown in schematic form. All required duct risers and drops to allow general routing depicted may not be shown. Provide offsets as required to meet space requirements and to avoid interference with other trades and field conditions. Exact location of the ductwork may vary according to the coordinated space requirements. Each trade shall be totally responsible for coordination with other trades. Notify engineer of conditions representing significant changes to the designed routing
33. Coordinate size, quantity, and location of all openings required for duct and pipe penetrations through walls, floors, and roofs, with contractor responsible for rough framing. Coordinate location of air intakes with exhaust and plumbing vents so that intakes are a minimum of 10 feet from exhaust openings or plumbing vents
34. Install ducts in longest length possible and fewest possible joints. Install fabricated fittings for changes in directions, changes in size and shape, and connections
35. Install ducts, unless otherwise indicated, vertically and horizontally, parallel and perpendicular to building lines; avoid diagonal runs unless specifically indicated on drawings
36. Install equipment level and plumb, parallel and perpendicular to other building systems and components in exposed interior spaces, unless otherwise indicated
37. All mechanical equipment with the exception of air handling units, supported from floor structure shall be mounted on 4" thick concrete housekeeping pads unless noted otherwise. air-handling units shall be mounted on 6" thick concrete housekeeping pads to accommodate proper trapping of the condensate drain.
38. Air filters shall be replaced in all air handling equipment employing such prior to final completion and owner occupancy
39. Basis of design mechanical equipment is as scheduled on the drawings. Contractor assumes responsibility for coordinating physical space requirements of equivalent capacity mechanical equipment deemed acceptable by the engineer
40. Mechanical equipment factory finish damaged during the course of construction shall be restored to original condition prior to final acceptance
41. Coordinate mechanical ceiling devices such as diffusers and registers with light fixtures, speakers, sprinkler heads, etc.
42. Electrical equipment spaces: Route ductwork to avoid passing through transformer vaults and electrical equipment spaces and enclosures. Avoid routing ductwork directly above electrical equipment unless specifically indicated on the mechanical drawings
43. Non-Fire-Rated Partition Penetrations: where ducts pass through interior partitions and are exposed to view in mechanical rooms, conceal space between construction opening and duct or duct insulation with sheet metal flanges of same metal thickness as duct. overlap opening on four sides by at least 1-1/2 inches unless indicated otherwise
44. Fire-Rated Partition Penetrations: where ducts pass through interior partitions, install appropriately rated fire damper. Fire damper installation must strictly adhere to manufacturer's written instructions
45. All air handlers, condensers, control devices and other mechanical apparatus shall be clearly marked for easy identification and owner Use black plastic or bakelite name plate engraved with white letters 1/4" high. Punched tape is not acceptable.
46. Mechanical contractor shall furnish record set of drawings with any deviations marked in red ink, within 90 days of system acceptance.
47. Mechanical contractor shall furnish manuals for all new equipment within 90 days of system acceptance, including, at a minimum: equipment input and output capacity and required maintenance actions, O&M manuals, controls maintenance and calibration information (including wiring diagrams and controls set points), and a complete written narrative of how each system is intended to operate. Systems shall be tested to ensure that controls are calibrated, adjusted, and in proper working condition.
48. All submittals shall be sent in pdf format, hard copies will not be reviewed. Submittals shall be highlighted or redlined to indicate equipment ID from schedules, model number, performance data, electrical data, dimensions, weights, options and accessories, and shall be emailed to the Architect.
49. Ductwork systems in areas with drywall ceilings/bulkheads shall be balanced prior to closing of the ceiling. All air devices mounted in drywall ceiling to have trim panels. Where access to manual balancing dampers will not be easily accessible, provide cable controlled damper at neck of diffuser or at duct main takeoff. Metropolitan air technology "roto-twist" model RT-150 or equal.

MECHANICAL SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
20x12	RECTANGULAR DUCT		4WAY BLOW SUPPLY AIR DIFFUSER
10"ø	ROUND DUCT		NON-4WAY DIFFUSER AIR PATTERN
12x8ø	FLAT OVAL DUCT		LINEAR SUPPLY AIR DIFFUSER
VD	VOLUME DAMPER		ROUND SUPPLY AIR DIFFUSER
FD / AD	FIRE DAMPER W/ACCESS DOOR		RETURN AIR GRILLE
SD / AD	SMOKE DAMPER W/ ACCESS DOOR		EXHAUST AIR REGISTER
SP	STATIC PRESSURE SENSOR		CEILING EXHAUST FAN
MOD	MOTOR OPERATED DAMPER		DIRECTION OF AIR FLOW
	FLEXIBLE CONNECTION		CONNECT TO EXISTING
	SOUND LINED DUCTWORK		DEMOLISH TO THIS LOCATION
	CAPPED DUCTWORK	T	THERMOSTAT
	CAPPED DUCTWORK	T	REVERSE ACTING THERMOSTAT
	DUCTWORK TRANSITIONS	H	HUMIDISTAT
	ROUND TO RECTANGULAR TRANS	S	SENSOR
	DUCTWORK TRANSITION	SD	SMOKE DETECTOR
R R	RISE AND DROP IN DUCTWORK	P	PRESSURE SENSOR
R R	RISE AND DROP IN DUCTWORK	GD	GAS DETECTOR SENSOR
	TURNING VANES	$	ON/OFF SWITCH
	RADIUS ELBOW	$V	VARIABLE SPEED SWITCH
	SUPPLY DUCT DOWN	CFM	CUBIC FEET PER MINUTE (CFM)
	SUPPLY DUCT UP	ø	DIAMETER
	RETURN DUCT DOWN	⬮	FLAT OVAL
	RETURN DUCT UP	1	DRAWING NOTE
	EXHAUST DUCT DOWN	1	REVISION SYMBOL
	EXHAUST DUCT UP	1/2	1" UNDERCUT DOOR
	AIR TITE FITTING W/INTEGRAL VOLUME DAMPER	1/2	DOOR LOUVER
	TOP AIR TITE FITTING CONNECTION	1	EQUIPMENT IDENTIFIER
	DOUBLE LINE FLEXIBLE DUCT		
	SINGLE LINE FLEXIBLE DUCT		

NOTE:

- ALL SYMBOLS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL NOTE THAT NOT ALL SYMBOLS MAY BE USED, AS WELL AS NOT ALL SYMBOLS USED MAY BE LISTED. REFER TO PROJECT SPECIFIC NOTES FOR ADDITIONAL INFORMATION.

DRAWING CONVENTIONS

- NEW WORK – HEAVY AND SOLID LINES
- EXISTING TO REMAIN – LIGHT AND SOLID LINES
- REMOVE EXISTING – HEAVY AND DASHED LINES

NOTICE TO CONTRACTORS

ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS THAT DIFFER FROM THAT SHOWN ON THESE PLANS SHALL BE REPORTED TO ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO SCOPE OF WORK WHICH RESULT FROM CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.

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PROJECT

7-ELEVEN 42655
CST

1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

GENERAL NOTES LEGEND AND ABBREVIATIONS

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SEAL:

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO, JR

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DATE: 6/06/25	FILE NAME:

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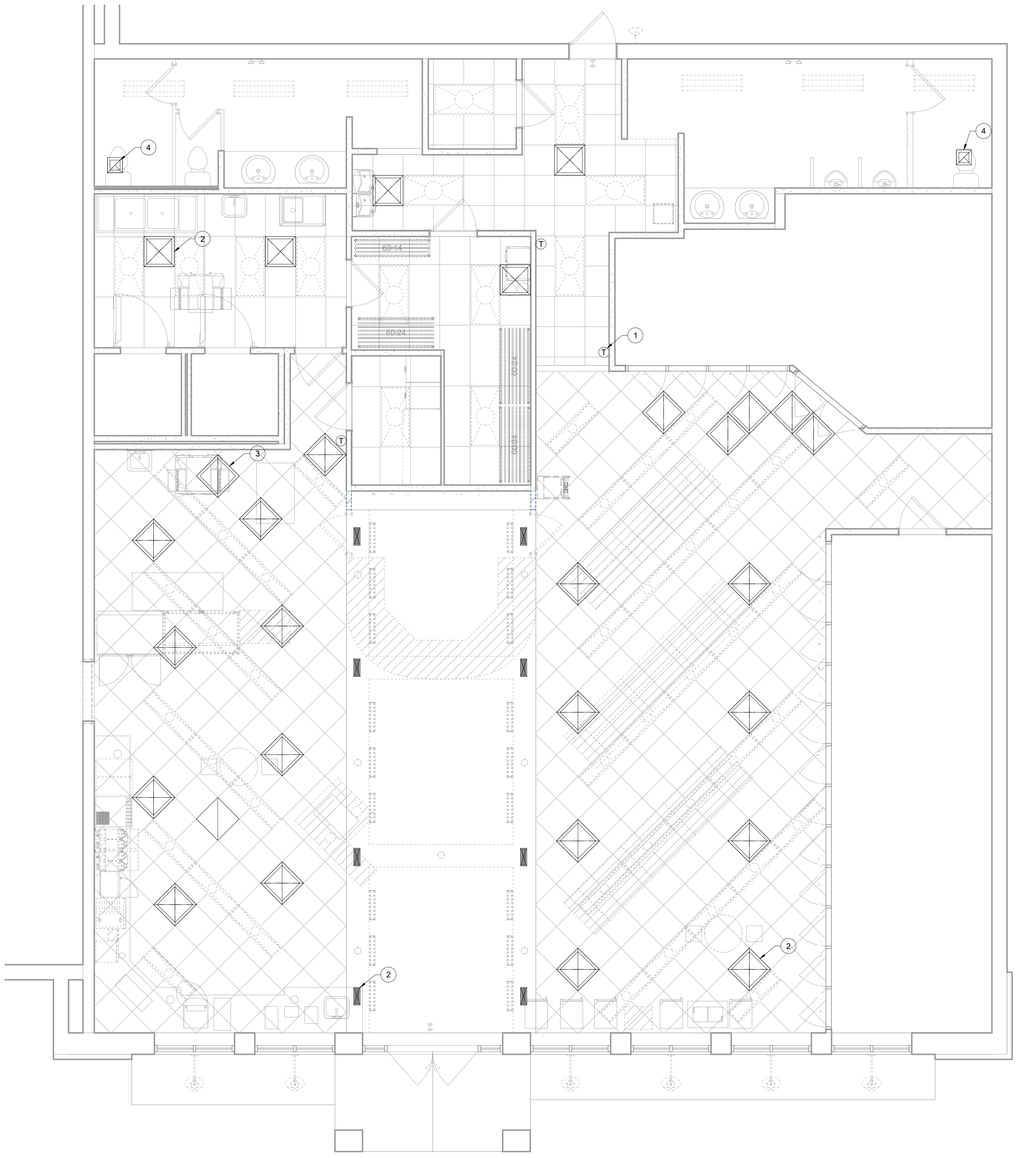
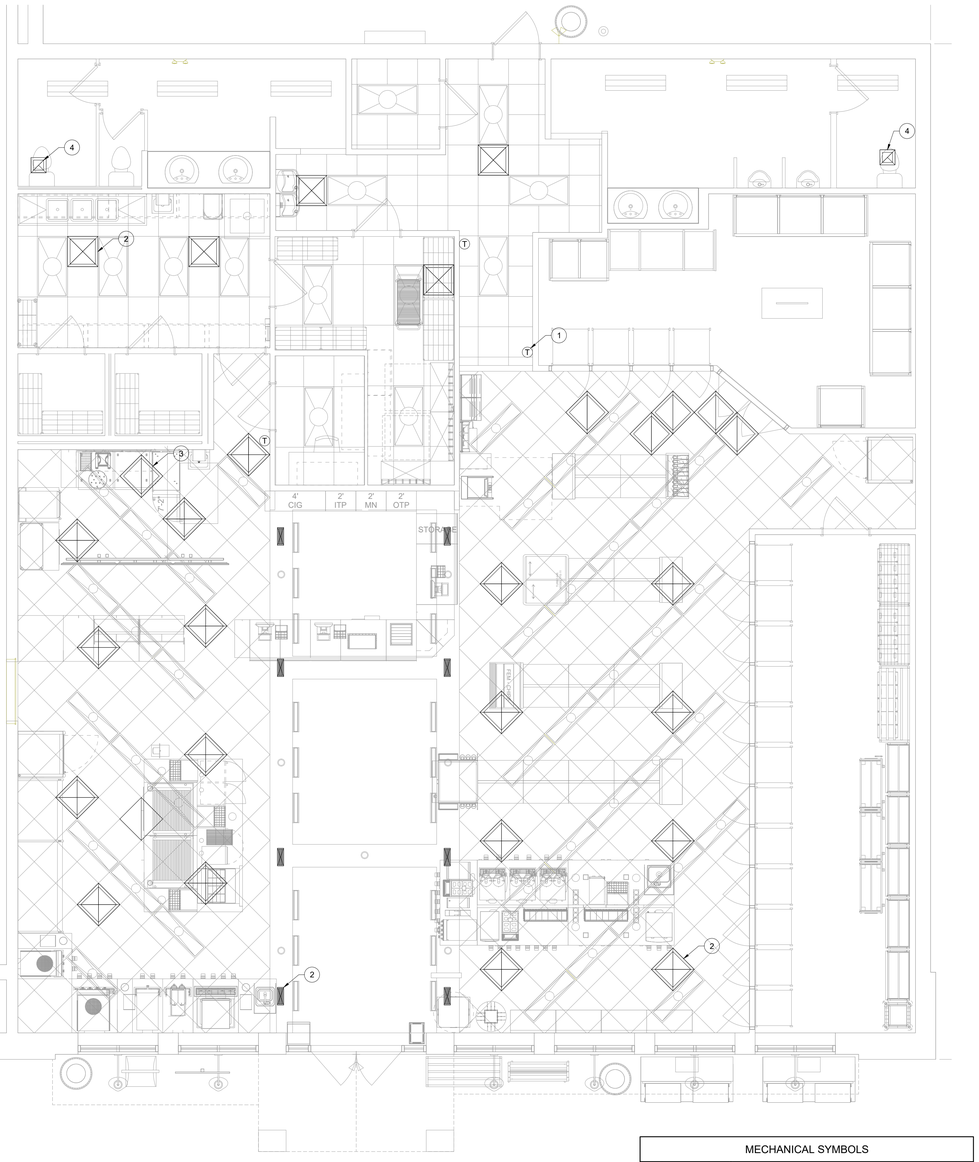


1 HVAC DEMOLITION PLAN
Scale: 1/4"=1'



2 HVAC NEW WORK PLAN
Scale: 1/4"=1'

HVAC Drawing Notes: (1) (2) (#)

1. EXISTING THERMOSTAT TO REMAIN. (TYPICAL)
2. EXISTING SA DIFFUSER TO REMAIN.
2. EXISTING SA DIFFUSER TO REMAIN.
3. RESTROOMS ARE OUTSIDE SCOPE OF WORK. EXISTING EXHAUST FANS TO REMAIN.

HVAC NOTES

A. NOTES APPLY TO ALL MECHANICAL SHEETS.

B. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.

C. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.

D. SPRINKLER HEAD AND LIGHTING FIXTURE LOCATIONS TAKE PRECEDENCE OVER DIFFUSER LOCATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR AND FIRE PROTECTION CONTRACTOR.

E. DUCTWORK IDENTIFICATION AND INSTALLATION TO ADHERE TO GOVERNING CODES.

F. TYPICAL BRANCH DUCT FITTING DETAIL IS APPLICABLE THROUGHOUT. FLEXIBLE DUCTWORK IS ONLY PERMITTED FOR FINAL CONNECTION - MAX LENGTH OF 6'-0".

G. FURNISH AND INSTALL VOLUME/BALANCE DAMPERS AT ALL BRANCH DUCTS TO DIFFUSERS. LOCATE DAMPERS A MINIMUM 4'-0" AWAY FROM DIFFUSERS. PROVIDE ACCESS AS REQUIRED.

H. ALL CEILING DIFFUSERS ARE 4-WAY PATTERN UNLESS SHOWN OTHERWISE.

MECHANICAL SYMBOLS

18"x12"	RECTANGULAR DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
12"	12" DIAMETER ROUND DUCT (INSIDE CLEAR DIMENSIONS)
	SUPPLY DUCT IN SECTION
	RETURN OR EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES
	TEE WITH TURNING VANES
	ROUND (OR OVAL) ELBOW
	SUPPLY AIR DIFFUSER WITH ROUND SUPPLY DUCT
	RETURN OR EXHAUST AIR DIFFUSER WITH ROUND DUCT
CD / 400 CFM	DIFFUSER OR GRILLE TYPE & CFM
(S)(H)(C)	SPACE/HUMIDITY/CO2 COMBO SENSOR
(S)(H)	TEMPERATURE/HUMIDITY COMBO SENSOR
(D)	SMOKE DETECTOR
(R)	SMOKE DETECTOR TEST/RESET STATION
(A)	HORN & STROBE ANNUNCIATOR
(P)	PRESSURE TRANSDUCER
	BALANCE DAMPER

LAY-IN CEILING NOTE: SUPPLY AIR DEVICES SHALL BE INDICATED AS 3-WAY AIR DEVICES WHEN LOCATED WITHIN A 10'-0" RADIUS OF THE OPEN AIR SANDWICH CASE

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PROJECT

7-ELEVEN 42655 CST

1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

MECHANICAL PLANS

ISSUE/REVISIONS

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SEAL

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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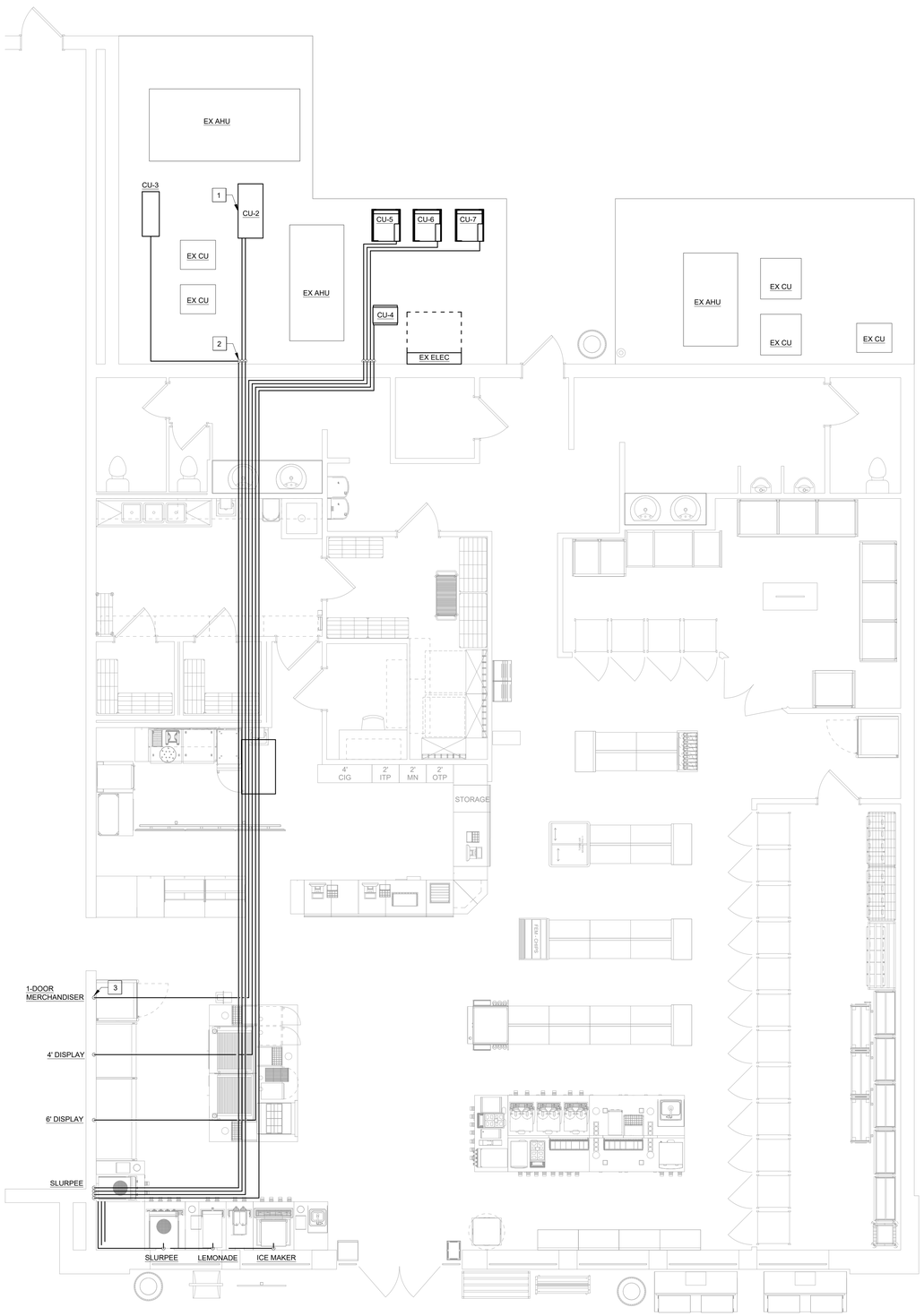

2 MECHANICAL FLOOR PLAN
Scale: 1/4"=1'

Mechanical Drawing Notes: 1 2

1. CONDENSING UNIT TO BE INSTALLED AND CONNECTED COMPLETE TO THE ASSOCIATED PIECE OF STORE EQUIPMENT. THIS INCLUDES ALL POWER, CONTROL WIRING, AND REFRIGERATION LINES. COORDINATE INSTALLATION WITH MANUFACTURER'S INSTALLATION REQUIREMENTS. LOCATE UNITS TO MINIMIZE REFRIGERANT RUNS AND MAINTAIN MAINTENANCE AND CODE REQUIRED CLEARANCES AND MAINTENANCE CLEARANCES OF EXISTING EQUIPMENT. (TYPICAL)
2. REFRIGERANT PIPE SET THRU WALL TO GRADE MOUNTED CONDENSER. INSTALL, SIZE AND TRAP PER MANUFACTURERS INSTRUCTIONS. (TYPICAL)
3. REFRIGERANT PIPE DOWN WITHIN WALL TO EQUIPMENT. INSTALL, SIZE AND TRAP PER MANUFACTURERS INSTRUCTIONS. (TYPICAL)

MECHANICAL MANUFACTURER CONTACT INFORMATION

MANUFACTURER	CONTACT	PHONE	EMAIL
HEATCRAFT WORLDWIDE REFRIGERATION / BOHN	RYAN KELLY	678-472-9885	RYAN.KELLY@HEATCRAFTRPD.COM

REFRIGERATION REMOTE CONDENSING UNIT SCHEDULE

TAG	QTY	ORACLE	MFR	MODEL	SUPPLIER	SUPPLIER PART NUMBER	SERVICE	ELECTRICAL V/PH	ELECTRICAL MCA	ELECTRICAL MOCP	WEIGHT (LBS)	FURNISH BY	INSTALL BY
CU-2	1	03309785	FBD	FBD-DRC	FBD PARTNERSHIP LP	-	DUAL CIRCUIT SLURPEE	208/2	2.2	15	143	TURNKEY	GC
CU-3	1	03309784	FBD	FBD-SRC	FBD PARTNERSHIP LP	-	FROZEN LEMONADE	208/2	1.8	15	105	TURNKEY	GC
CU-4	1	03164149	HOSHIZAKI	URC-5F	HOSHIZAKI	-	ICE MAKER	120/1	--	--	60	TURNKEY	GC
CU-5	1	TBD	BOHN	TBD	HEATCRAFT	-	1-DOOR MERCHANDISER	208/2	20	20	169	TURNKEY	GC
CU-6	1	00130388	BOHN	BZT010M6BF	HEATCRAFT	-	4' DISPLAY CASE	208-230/1	38	40	209	TURNKEY	GC
CU-7	1	TBD	BOHN	TBD	HEATCRAFT	-	6' DISPLAY CASE	208-230/1	38	40	209	TURNKEY	GC

NOTES:
1. **CONTRACTOR TO VERIFY ALL EQUIPMENT SELECTIONS WITH LATEST 7-11 STANDARDS AND 7-11 EQUIPMENT REPRESENTTIVES PRIOR TO ORDERING. NOT ALL EQUIPMENT SELECTIONS WERE PROVIDED. VERIFY SCHEDULE INFORMATION**
2. **FIELD COORDINATE LOCATIONS OF CONDENSERS TO MINIMIZE REFRIGERANT RUNS, SIZE , TRAP AND INSTALL PER MANUFACTURERS RECOMMENDATIONS. CONTRACTOR TO CONSULT FACTORY FOR ALL LONG LINE SET SIZING AND FIELD COORDINATE INSTALLATION.**

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PROJECT:

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CST

1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:
MECHANICAL ROOF PLAN

ISSUE REVISIONS

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NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO, JR

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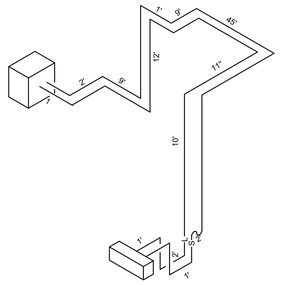
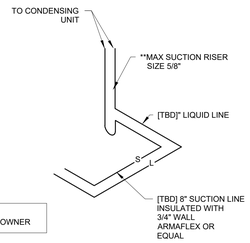




EQUIPMENT CUTSHEET NOT PROVIDED. CONTRACTOR TO SIZE REFRIGERATION PIPING IN FIELD ACCORDING TO UNITS SELECTED BY OWNER

REFRIGERATED CASE LIQUID AND SUCTION REFRIGERANT LINE LENGTHS

DESIGN NOTES:
- LINE SIZING TABLE 8 FROM THE MANUAL SHOWS [TBD] BTUH REQUIRES A [TBD]" SUCTION FOR UP TO ???' OF EQUIVALENT LINE LENGTH.
- HORIZONTAL SUCTION LINES SHALL SLOPE AWAY FROM THE EVAPORATOR TOWARD THE COMPRESSOR AT THE RATE OF 1" PER 10' FOR SUFFICIENT OIL RETURN.

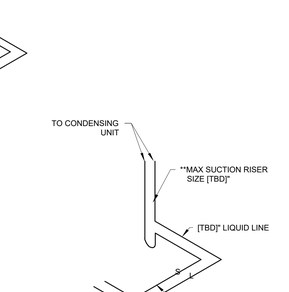
REFRIGERATED CASE LIQUID AND SUCTION REFRIGERANT LINE SIZES

LINE SIZING - [TBD] BTUH @ +20°F:
- (5) [TBD]" ELBOWS: EQUIVALENT LINE LENGTH = [TBD]'
- PIPING LENGTH = 104'/106'
- TOTAL DEVELOPED LENGTH = [TBD'/TBD]'
- SUCTION LINE SIZE = [TBD]"
- LIQUID LINE SIZE = [TBD]"

PIPING DIAGRAM FOR THE R448A MEDIUM (TBD)
TEMPERATURE (+20°F SST) COOLER REFRIGERATION SYSTEM

REFER TO REFRIGERATION INSTALLATION MANUAL FOR LONGER LINE RUNS. HTTPS://WWW.HEATCRAFTRPD.COM/PDF/I&O/H-IM-CU.PDF

2 1-DOOR MERCHANDISER
NO SCALE



EQUIPMENT CUTSHEET NOT PROVIDED. CONTRACTOR TO SIZE REFRIGERATION PIPING IN FIELD ACCORDING TO UNITS SELECTED BY OWNER

REFRIGERATED CASE LIQUID AND SUCTION REFRIGERANT LINE LENGTHS

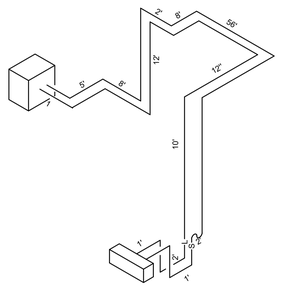
DESIGN NOTES:
- LINE SIZING TABLE 6 FROM THE MANUAL SHOWS [TBD] BTUH REQUIRES A [TBD]" SUCTION FOR UP TO [TBD]' OF EQUIVALENT LINE LENGTH.
- HORIZONTAL SUCTION LINES SHALL SLOPE AWAY FROM THE EVAPORATOR TOWARD THE COMPRESSOR AT THE RATE OF 1" PER 10' FOR SUFFICIENT OIL RETURN.

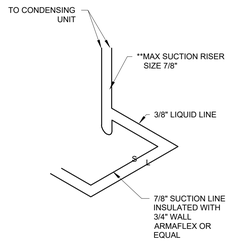
LINE SIZING - [TBD] BTUH @ +20°F:
- (11) 7/8" ELBOWS: EQUIVALENT LINE LENGTH = 22'
- PIPING LENGTH =120'/122'
- TOTAL DEVELOPED LENGTH = 142'/144'
- SUCTION LINE SIZE = [TBD]"
- LIQUID LINE SIZE = [TBD]"

PIPING DIAGRAM FOR THE R404A MEDIUM
TEMPERATURE (+20°F SST) COOLER REFRIGERATION SYSTEM

REFER TO REFRIGERATION INSTALLATION MANUAL FOR LONGER LINE RUNS. HTTPS://WWW.HEATCRAFTRPD.COM/PDF/I&O/H-IM-CU.PDF

1a 72" CASE MERCHANDISER
NO SCALE





REFRIGERATED CASE LIQUID AND SUCTION REFRIGERANT LINE LENGTHS

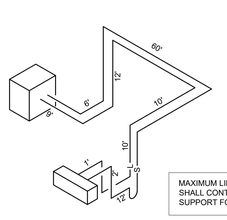
DESIGN NOTES:
- LINE SIZING TABLE 6 FROM THE MANUAL SHOWS 12,000 BTUH REQUIRES A 7/8" SUCTION FOR UP TO 150' OF EQUIVALENT LINE LENGTH.
- HORIZONTAL SUCTION LINES SHALL SLOPE AWAY FROM THE EVAPORATOR TOWARD THE COMPRESSOR AT THE RATE OF 1" PER 10' FOR SUFFICIENT OIL RETURN.

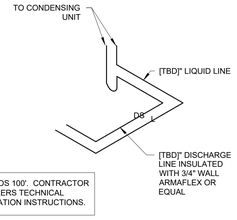
LINE SIZING - 11,260 BTUH @ +20°F:
- (11) 7/8" ELBOWS: EQUIVALENT LINE LENGTH = 22'
- PIPING LENGTH =117'/119'
- TOTAL DEVELOPED LENGTH = 139'/141"
- SUCTION LINE SIZE = 7/8"
- LIQUID LINE SIZE = 3/8"

PIPING DIAGRAM FOR THE R404A MEDIUM
TEMPERATURE (+20°F SST) COOLER REFRIGERATION SYSTEM

REFER TO REFRIGERATION INSTALLATION MANUAL FOR LONGER LINE RUNS. HTTPS://WWW.HEATCRAFTRPD.COM/PDF/I&O/H-IM-CU.PDF

1b 48" CASE MERCHANDISER
NO SCALE





MAXIMUM LINE LENGTH EXCEEDS 100'. CONTRACTOR SHALL CONTACT MANUFACTURERS TECHNICAL SUPPORT FOR SIZING/INSTALLATION INSTRUCTIONS.

FROZEN LEMONADE MACHINE LIQUID AND DISCHARGE REFRIGERANT LINE LENGTHS

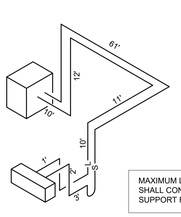
DESIGN NOTES:
- PRE-CHARGED R404A REFRIGERATION LINESETS ARE PROVIDED BY THE VENDOR, IN 50' or 100' SECTIONS, WITH 5/8"DS & 3/8"L
- PIPING LENGTH = 123'/125'
- COMPRESSOR LOCATED IN FBD UNIT
- CONTRACTOR TO LOCATE UNIT TO REDUCE LINE LENGTH AS MUCH AS POSSIBLE AND MAINTAIN SERVICE CLEARANCES

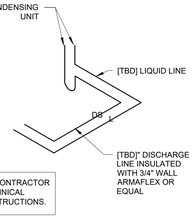
ENLARGED INTERIOR FROZEN LEMONADE MACHINE LIQUID AND DISCHARGE REFRIGERANT LINE SIZES AND CONNECTIONS

INSTALLATION NOTES:
- MAXIMUM LINE LENGTH EXCEEDS 100' SO CONTRACTOR SHALL CONTACT MANUFACTURERS TECHNICAL SUPPORT FOR SIZING/INSTALLATION INSTRUCTIONS.
- LINE SETS SHALL BE MEASURED AND CUT TO FIT TOTAL DEVELOPED LENGTH AS TO NOT HAVE ANY REMAINING COIL OF TUBING ON-SITE

REFER TO FBD INSTALLATION MANUAL. HTTPS://DOWNLOADS.FBDFROZEN.COM/DOWNLOADS/DOWNLOAD/272

5 FROZEN LEMONADE
NO SCALE





MAXIMUM LINE LENGTH EXCEEDS 100'. CONTRACTOR SHALL CONTACT MANUFACTURERS TECHNICAL SUPPORT FOR SIZING/INSTALLATION INSTRUCTIONS.

SLURPEE MACHINE (EACH) LIQUID AND DISCHARGE REFRIGERANT LINE LENGTHS

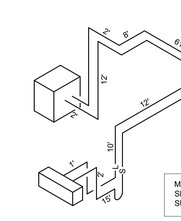
DESIGN NOTES:
- PRE-CHARGED R404A REFRIGERATION LINESETS ARE PROVIDED BY THE VENDOR, IN 50' or 100' SECTIONS, WITH 5/8"DS & 3/8"L
- PIPING LENGTH = 110'/112'
- COMPRESSOR LOCATED IN FBD UNIT
- CONTRACTOR TO LOCATE UNIT TO REDUCE LINE LENGTH AS MUCH AS POSSIBLE AND MAINTAIN SERVICE CLEARANCES

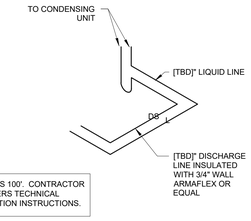
ENLARGED INTERIOR SLURPEE MACHINE (EACH) LIQUID AND DISCHARGE REFRIGERANT LINE SIZES AND CONNECTIONS

INSTALLATION NOTES:
- MAXIMUM LINE LENGTH EXCEEDS 100' SO CONTRACTOR SHALL CONTACT MANUFACTURERS TECHNICAL SUPPORT FOR SIZING/INSTALLATION INSTRUCTIONS.
- LINE SETS SHALL BE MEASURED AND CUT TO FIT TOTAL DEVELOPED LENGTH AS TO NOT HAVE ANY REMAINING COIL OF TUBING ON-SITE

REFER TO FBD INSTALLATION MANUAL. HTTPS://DOWNLOADS.FBDFROZEN.COM/DOWNLOADS/DOWNLOAD/272

4 SLURPEE MACHINE (EACH)
NO SCALE





MAXIMUM LINE LENGTH EXCEEDS 100'. CONTRACTOR SHALL CONTACT MANUFACTURERS TECHNICAL SUPPORT FOR SIZING/INSTALLATION INSTRUCTIONS.

ICE MAKER LIQUID AND DISCHARGE REFRIGERANT LINE LENGTHS

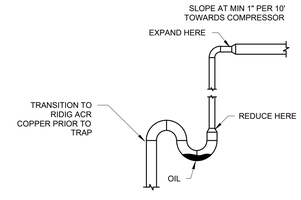
DESIGN NOTES:
- PRE-CHARGED R404A REFRIGERATION LINESETS ARE PROVIDED BY THE VENDOR, IN 35' SECTIONS, WITH 3/8"DS & 1/4"L
- PIPING LENGTH = 125'/127'
- COMPRESSOR LOCATED IN ICE MAKER
- CONTRACTOR TO LOCATE UNIT TO REDUCE LINE LENGTH AS MUCH AS POSSIBLE AND MAINTAIN SERVICE CLEARANCES

ENLARGED INTERIOR ICE MAKER LIQUID AND DISCHARGE REFRIGERANT LINE SIZES AND CONNECTIONS

INSTALLATION NOTES:
- MAXIMUM LINE LENGTH SHALL NOT EXCEED 66'
- MAXIMUM RISE IS 33'
- LINE SETS SHALL BE MEASURED AND CUT TO FIT TOTAL DEVELOPED LENGTH AS TO NOT HAVE ANY REMAINING COIL OF TUBING ON-SITE.
- CONTRACTOR TO USE MANUFACTURERS LONG LINE SET FOR LENGTHS GREATER THAN 66' AND LESS THAN 100'

REFER TO REFRIGERATION INSTALLATION MANUAL. HTTP://WWW.HOSHIZAKI.COM/DOCS/MANUALS/FLAKER_IS_BC_INST.PDF

3 FD-1002MRJ-C ICE MAKER
NO SCALE



**SUCTION LINE RISER REDUCTION PER HEATCRAFT INSTALLATION MANUAL

6 PIPE REDUCTION DETAIL
NO SCALE

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PROJECT

7-ELEVEN 42655 CST

1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

REFRIGERATION PIPING RISER DETAILS

ISSUE / REVISIONS		
0	06/06/25	ISSUE FOR BID AND PERMIT
DATE		DESCRIPTION

SEAL

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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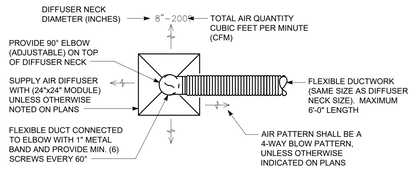
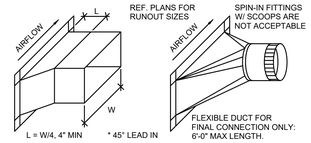


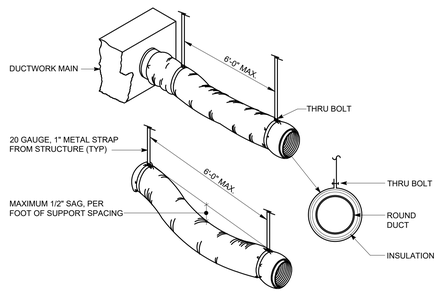
SUPPLY AIR DIFFUSER KEY

NO SCALE



1 BRANCH DUCT DETAIL

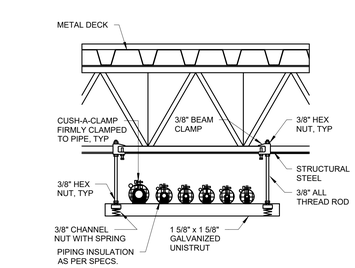
1/4" = 1'-0"



FLEXIBLE DUCT RUN-OUT SUPPORT DETAIL

NO SCALE

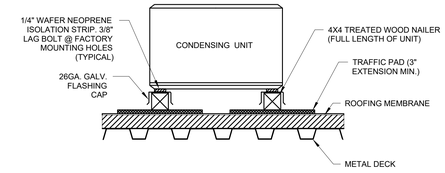
NOTES:
1) FLEXIBLE DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM RECTANGULAR DUCT CONNECTION BEFORE BENDING.
2) USE RIGID DUCTWORK WHEN FLEXIBLE DUCT LENGTH EXCEEDS 6'-0" LENGTH.



2 REFRIGERANT LINE SUPPORT DETAIL

1/4" = 1'-0"

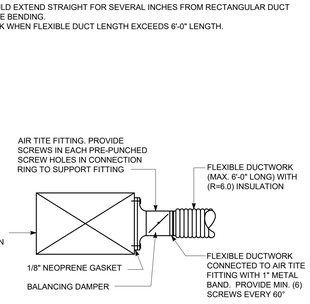
COORDINATE ALL REFRIGERANT PIPING AND EQUIPMENT INSTALLATION WITH EQUIPMENT VENDER. SIZE TRAP AND INSTALL PER MANUFACTURERS RECOMMENDATIONS



NOTE:
MECHANICAL CONTRACTOR SHALL LEVEL EQUIPMENT CURB PRIOR TO MOUNTING UNIT.

3 CONDENSING UNIT DETAIL

1/4" = 1'-0"



AIR-TITE SIZE CHART

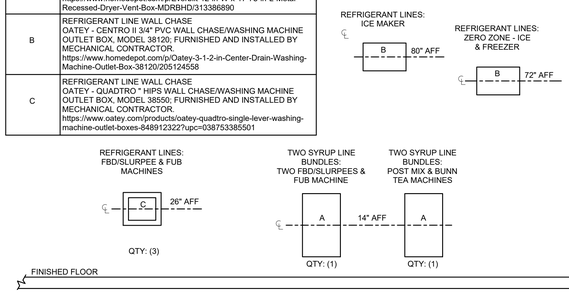
DUCTSIZE	CONNECTION RING	DUCTSIZE	CONNECTION RING
5"	8"	9"	12"
6"	9"	10"	13"
7"	10"	11"	15"
8"	11"	12"	17"

NOTE:
WHERE CONNECTION RING SIZE IS LARGER THAN SUPPLY DUCT, THEN CONNECTION RING SHALL BE CRIMPED OVER DUCT AND CONNECTED, SCREWED & SEALED ON TOP AND BOTTOM OF SUPPLY DUCT.

AIR-TITE SPIN-IN FITTING DETAIL

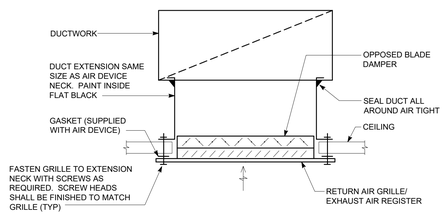
NO SCALE

LEGEND	
A	SYRUP LINE BUNDLE WALL CHASE EVERBILT - 12"WX17.75"L STAINLESS STEEL RECESSED WALL CHASE/DRYER VENT BOX - MODEL MDRBHD; FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. https://www.homedepot.com/p/Everbilt-12-in-W-x-17-75-in-L-Metal-Recessed-Dryer-Vent-Box-MDRBHD/313386890
B	REFRIGERANT LINE WALL CHASE OATEY - CENTRO II 3/4" PVC WALL CHASE/WASHING MACHINE OUTLET BOX, MODEL 38120; FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. https://www.homedepot.com/p/Oatey-3-1-2-in-Center-Drain-Washing-Machine-Outlet-Box-38120/205124558
C	REFRIGERANT LINE WALL CHASE OATEY - QUADTRO " HIPS WALL CHASE/WASHING MACHINE OUTLET BOX, MODEL 38550; FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. https://www.oatey.com/products/oatey-quadtro-single-lever-washing-machine-outlet-boxes-848912322?upc=038753385501



SYRUP & REFRIGERANT LINE WALL CHASE MOUNTING HEIGHTS

4 1/4" = 1'-0"



RETURN AIR GRILLE/EXHAUST REGISTER MOUNTING DETAIL

NO SCALE

NOTES:
1) ALL EXHAUST REGISTERS LOCATED IN WET AREAS SHALL BE ALUMINUM.
2) ALL EXHAUST AIR DUCTWORK CONVEYING MOISTURE SHALL BE ALL ALUMINUM.

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CONSULTANT

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PROJECT

7-ELEVEN 42655 CST

1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

MECHANICAL DETAILS

ISSUE/ REVISIONS

	DATE	DESCRIPTION
0	06/06/25	ISSUE FOR BID AND PERMIT

SEAL:

6/06/25

DocuSigned by: 38E7250D67A548A...

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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ABBREVIATIONS

A	COMPRESSED AIR	HZ	HERTZ
AAV	AUTOMATIC ADMITTANCE VALVE	ICE	ICE MAKER
ABV	ABOVE	ID	INDIRECT DRAIN
ACU	AIR CONDITIONING UNIT	IE	INVERT ELEVATION
AD	AREA DRAIN	IN W.C.	INCHES WATER COLUMN
AE	ANESTHESIA EXHAUST	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
AHU	AIR HANDLING UNIT	LBS	POUNDS
AS	AIR SEPARATOR	LBS/HR	POUNDS PER HOUR
AV	AUTOMATIC AIR VENT	LG	LENGTH
AW	ACID WASTE	LPR	LOW PRESSURE STEAM RETURN
@	AT	LPS	LOW PRESSURE STEAM SUPPLY
B	BOILER	LWT	LEAVING WATER TEMPATURE
BAS	BUILDING AUTOMATION SYSTEM	MAU	MAKEUP AIR UNIT
BFP	BACKFLOW PREVENTION DEVICE	MAV	MANUAL AIR VENT
BHP	BRAKE HORESPOWER	MAX	MAXIMUM
BLDG	BUILDING	MBH	THOUSANDS OF BTU PER HOUR
BOP	BOTTOM OF *PIPE*	MC	MECHANICAL CONTRACTOR
BO	BOILER BLOW OFF	MCA	MINIMUM CURRENT AMPACITY
BTUH	BRITISH THERMAL UNITS PER HOUR	MIN	MINIMUM
CD	CEILING DIFFUSER /CONDENSATE DRAIN	MOCP	MAXIMUM OVERCURRENT PROTECTION
CH	CHILLER	MPR	MEDIUM PRESSURE RETURN
CHR	CHILLED WATER RETURN	MPS	MEDIUM PRESSURE STEAM
CHS	CHILLED WATER SUPPLY	N	NITROGEN
CLG	CEILING	N.C.	NORMALLY CLOSED
COND	CONDENSATE	NIC	NOT IN CONTRACT
COP	COEFFICIENT OF PERFOMANCE	NO	NITROUS OXIDE
CT	COOLING TOWER	N.O.	NORMALLY OPEN
CU	CONDENSING UNIT	NTS	NOT TO SCALE
CV	CONTROL VALVE	O	OXYGEN
CW	DOMESTIC COLD WATER	OFD	OVERFLOW ROOF DRAIN
D	DRAIN	P	PUMP
DC	DRY COOLER	P-1	PLUMBING FIXTURE IDENTIFIER
°F	DEGREE FAHRENHEIT	PBD	PARALLEL BLADE DAMPER
DH	DEHUMIDIFIER	PC	PLUMBING CONTRACTOR
DI	DEIONIZED WATER	PD	PRESSURE DROP
DN	DOWN	PH	PHASE
DOAS	DEDICATED OUTDOOR AIR SYSTEM	PPM	PARTS PER MILLION
DS	DOWNSPOUT NOZZLE	PRV	PRESSURE RELIEF VALVE
DTR	DUAL TEMPERATURE RETURN	PS	PRESSURE SWITCH
DTS	DUAL TEMPERATURE SUPPLY	PSI	POUNDS PER SQUARE INCH
DW	DISHWASHER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
EC	ELECTRICAL CONTRACTOR	PTAC	PACKAGED TERMINAL AIR CONDITIONER
EFF	EFFICIENCY	RD	ROOF DRAIN
EL	ELEVATION	RLA	RUNNING LOAD AMPS
ER	EXHAUST REGISTER	RL	RAIN LEADER
ET	EXPANSION TANK	RM.	ROOM
EWC	ELECTRIC WATER COOLER	RO	REVERSE OSMOSIS SUPPLY
EWH	ELECTRIC WATER HEATER	RPM	REVOLUTIONS PER MINUTE
EWT	ENTERING WATER TEMPERATURE	RR	REVERSE OSMOSIS RETURN
EX	EXISTING	RTU	ROOFTOP AIR HANDLING UNIT
EXT	EXTERNAL	RX	REMOVE EXISTING
FCO	FLOOR CLEANOUT	SF	SQUARE FOOT
FCU	FAN COIL UNIT	SH	SHOWER
FD	FLOOR DRAIN	SPEC.	PROJECT SPECIFICATIONS
FDC	FIRE DEPARTMENT CONNECTION	SS	STAINLESS STEEL
FDV	FIRE DEPARTMENT VALVE	STRUCT.	STRUCTURAL
FL	FLOOR	SW	STORM WATER
FLA	FULL LOAD AMPS	TEMP	TEMPERATURE
FOR	FUEL OIL RETURN	TMV	THERMOSTATIC MIXING VALVE
FOS	FUEL OIL SUPPLY	TOP	TOP OF PIPE
FOV	FUEL OIL VENT	TP	TRAP PRIMER
FPM	FEET PER MINUTE	TWH	TANKLESS WATER HEATER
FS	FLOOR SINK	TYP	TYPICAL
FSD	FIRE SMOKE DAMPER	UH	UNIT HEATER
FT	FEET	UON	UNLESS OTHERWISE NOTED
FT^2	SQUARE FEET	UR	URINAL
FTR	FINNED TUBE RADIATOR	V	VOLT / VACUUM
FW	FEED WATER PUMPED DISCHARGE	VAC	VOLTS ALTERNATING CURRENT
GAL	GALLON	VB	VACUUM BREAKER
GC	GENERAL CONTRACTOR	VP	VELOCITY PRESSURE
GPM	GALLONS PER MINUTE	VRF	VARIABLE REFRIGERANT FLOW
GR	GLYCOL RETURN	VTR	VENT THRU ROOF
GRH	GAS RADIANT HEATER	W	WATTS
GS	GLYCOL SUPPLY	W/	WITH
GUH	GAS UNIT HEATER	W/O	WITHOUT
GV	GRAVITY VENTILATOR	WC	WATER CLOSET
GW	GREASE WASTE	WCO	WALL CLEANOUT
GWH	GAS WATER HEATER	WF	WATER FILTER
H	HUMIDIFIER	WG	WATER GAUGE
HB	HOSE BIBB	WH	WALL HYDRANT
HC	HEATING COIL	WS	WATER SOFTENER
HCWR	DUAL TEMPERATURE RETURN	WSHP	WATER SOURCE HEAT PUMP
HCWS	DUAL TEMPERATURE SUPPLY		
HD	HUB DRAIN		
HP	HEAT PUMP / HORSEPOWER		
HPR	HIGH PRESSURE STEAM RETURN		
HPS	HIGH PRESSURE STEAM SUPPLY		
HR	HOUR		
HW	HOT WATER		
HWR	HW RECIRC/HEATING WATER RETURN		
HWS	HEATING WATER SUPPLY		
HX	HEAT EXCHANGER		

GENERAL NOTES

GENERAL PLUMBING REQUIREMENTS

1. Materials, equipment, and systems shall meet all pertinent requirements of the Underwriters Laboratory (UL), the American Society for Testing Materials (ASTM), American Water Works Association (AWWA), American Gas Association (AGA), National Fire Protection Association (NFPA), and other nationally recognized agencies as well as the latest adopted edition of state and local code procedures, methods, and requirements, including the most stringent of health and safety standards as required and as interpreted by the authority having jurisdiction. Applicable codes and standards include, but are not limited to the following: "international plumbing, building, energy, mechanical, and fuel gas codes" applicable local and municipal codes and ordinances.
2. Bidders shall be licensed contractors in accordance with local and state laws.
3. Bidders shall thoroughly acquaint themselves with the conditions under which the work is to be performed. They shall examine all services, equipment, surfaces, etc., which this work is in any way dependent upon, and bring any discrepancies determined or omissions found in the drawings to the owner's attention before submitting bid.
4. All installed systems, devices and related items shall be tested in place on site. Replace any and all contractor supplied defective devices, items or systems at contractor's own expense before completion of the project.
5. Contractor shall guarantee all work for which materials are furnished, fabricated or field erected, all factory assembled equipment for which no specific manufacturer's guarantee is furnished, and all work in connection with installing manufacturer's guaranteed equipment. This contractor's guarantee shall exist for a period of one (1) year from the date of final owner acceptance of the work and shall apply to defects in material and to defective workmanship of any kind.
6. The systems shown on the drawings shall be provided to serve all fixtures, equipment, and areas within the Contract Limit Lines as set forth by the Architectural solution for the project. Systems shall include all equipment, appurtenances, safety devices, and controls necessary for the intended service.
7. All permits and fees required for the work shall be secured and paid for by the plumbing contractor and included in bid price.
8. Anything drawn or specified on these plans shall not be construed to conflict with any local, municipal or state law, regulation or ordinance which governs the installation of any plumbing or related work. Where any portion of the systems are not installed as in accordance with applicable laws, ordinances, regulations and codes, this contractor shall make all changes required by the enforcing authorities in a manner approved by the owner and without additional cost to the owner.
9. Where job conditions require changes from the contract documents that do not change the scope of installation or nature of work required, the contractor shall make such changes without additional cost to the owner. No other changes may be made without written permission of the owner.
10. All equipment and fixtures shall be new and unused and installed in strict conformance to manufacturer's recommendations. Provide fixtures complete with all trim, stops, hangers, carriers, supports, etc. including provision for the handicapped, if required. Where fixtures are accessible to the handicapped, fixtures must comply with all federal ADA regulations.
11. Arrange for chases, slots, and openings in other building components to allow for plumbing installations. Coordinate the cutting and patching of building components to accommodate installation of plumbing equipment and materials.
12. Do not endanger or damage installed Work through procedures and processes of cutting and patching. Provide repairs required to restore other work, because of damage caused as a result of plumbing installations.
13. Coordinate the installation of required supporting devices and sleeves to be set in poured in place concrete and other structural components, as they are constructed. Plumbing contractor shall be responsible for assuring all hangers and supports are anchored or attached to building elements adequate for intended plumbing system or equipment. Plumbing contractor to provide and install nail plates where piping passes through stud(s) within 2" of nailing surface to protect pipe from nails or drywall screws.
14. Sequence, coordinate, and integrate installations of plumbing materials and equipment for efficient flow of the Work. Give particular attention to large equipment requiring positioning prior to closing-in the building.
15. Where mounting heights are not detailed or dimensioned, install plumbing services and overhead equipment to provide the maximum headroom possible.
16. Install plumbing equipment to facilitate maintenance and repair or replacement of equipment components. As much as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations.
17. Coordinate the installation of plumbing materials and equipment above ceilings with suspension system, light fixtures, ductwork, conduit, and other installations. Coordinate plumbing equipment and materials installation with other building components.
18. All pipes shall be of the size given on the drawings. All piping shall be run true to line. Pipes may be moved, if necessary for installation, provided that the nature of the system is not changed. All pipes shall be concealed: located above ceiling, below floor or in walls, except where connection is made to fixture.
19. Coordinate connection of plumbing systems with exterior underground and overhead utilities and services. Comply with requirements of governing regulations, franchised service companies, and controlling agencies. Provide required connection for each service and coordinate all locations, sizes and invert elevations with civil engineer.
20. Plumbing service rough-in shall be based on information, drawings, equipment cuts, etc. prepared by the equipment supplier. Final plumbing connections shall be made from rough-in to equipment after equipment is set in place.
21. Actual locations and mounting methods for fixtures and penetrations are subject to Architect's approval. All piping is shown schematically for clarity - coordinate with structure, ducts, lights, utilities, etc. Verify all dimensions by field measurements.
22. The hot and cold water supply line branches for all lavatories and sinks shall have Josam or Zurn water hammer arresters installed on the high point at the end of each branch line.
23. All above-ground water supply piping shall be Type L rigid copper. All below grade water supply piping shall be Type K soft copper with at least 50' between joints. All joints shall be soldered with "lead-free" solder (e.g., 95-5).
24. Flush and sterilize water system after connections are made in accordance with local regulations.
25. All sanitary waste piping below slab shall be cast-iron or solid-wall PVC. All grease waste piping shall be cast iron. Other DWV piping may be solid-wall PVC or cast-iron or galvanized steel, except that PVC may NOT be used in demising walls and may NOT be used in return plenum ceilings.
26. All condensate drain piping and indirect drains shall be DWV seamless copper tubing with soldered drainage fittings or schedule 40 plastic pipe with solvent sealed plastic fittings, except that PVC may NOT be used in demising walls and may NOT be used in return plenum ceilings.
27. All floor penetrations and all exterior penetrations shall be completely waterproofed, firesafed, and sealed. All pipe penetrations of fire rated assemblies shall be sleeved and sealed as required to maintain the rating of the assembly. Sleeves shall be used for all masonry penetrations. Proper sealing of penetrations as described here is the sole responsibility of the plumbing contractor.
28. All domestic water piping, vent piping and gas piping shall run above ceiling, UON. All sanitary piping shall be run under the floor, UON.
29. Existing piping shown on drawings is based on original drawings, and location, mounting heights and points of connection must be verified in field. All items that are indicated in bold print shall be considered new or relocated, unless otherwise noted.
30. In general, do not abandon old piping - remove and dispose of properly, unless inaccessible or under slab, or unless noted otherwise.
31. All water piping inside the building thermal envelope shall be insulated with Owens Corning SSL II with ASJ Max Fiberglas pipe insulation as follows: Cold water, 1/2" thick insulation; hot water supply and recirculation piping 1.25" dia and smaller, 1" thick insulation; hot water supply and recirculation piping 1.5" dia and larger, 1.5" thick insulation.
32. No hot and cold water supply piping shall be run in outside walls, crawl space, attic, or other unheated spaces.
33. All sanitary sewer traps and grease waste piping that is located in unheated areas shall be heat traced and insulated with 1" fiberglass minimum to prevent freezing. All heat tracing shall be controlled with a sensor on the coldest portion of the piping and set to turn on if pipe temperature drops below 45F.
34. Provide and install LavGuard by Truebro, Inc. ADA compliant, vinyl coated with standard white finish, foam insulation on all exposed plumbing waste and supply connectors underneath all lavatories, not just the one labeled with an H-. If there are any instant water heaters, transformers for hands-free devices, or any other sharp or abrasive objects under lavatory, provide and install full lavatory shield (LavShield by Truebro, Inc. or equal), maintaining ADA required clearances under all lavatories.
35. All horizontal branches and vents 3" in diameter and over shall be sloped at 1/8" per foot minimum, unless otherwise noted. All horizontal branches and vents under 3" in diameter shall be sloped at 1/4" per foot minimum, unless otherwise noted (UON).
36. Fabricate, install, inspect, test and purge natural gas systems in accordance with the latest IFGC 2018, and with local gas company. Gas pipe shall be schedule 40 black steel, UON.
37. Contractor to install, size and trap refrigerant piping per the manufacturer's recommendations.
38. All existing H.V.A.C. and piping/plumbing information shown was obtained from field surveys or original previous tenant design drawings. Contractor must verify this information prior to any work being performed.
39. Any cutting or patching of the roof to be done by the owner's roofing contractor so not to void any original warranties.
40. The general contractor shall coordinate all exterior plumbing inverts with actual site conditions, proposed installation and with civil drawings prior to construction, to ensure that all connection points leaving the building can be met..
41. All access panels required in hard ceilings and walls shall be furnished and installed by the contractor. Panels shall be wind-lock model stealth or approved equal with appropriate size.
42. All service valves, unions, gas cocks, etc., shall be manufactured by Nibco or equal.
43. All domestic water piping shall be insulated with 1" pre-molded fiberglass insulation with an all service jacket. Fittings shall be insulated with fiberglass and covered with PVC jackets.
44. All sanitary piping located above food storage racks, above food preparation areas or above food serving areas shall be copper pipe with soldered copper drainage and waste fittings.
45. All refrigerant piping shall be wrapped with 1" Armaflex insulation.
46. All sanitary piping shall be sloped at minimum 1/8" per foot. All sanitary piping 2" and smaller and located below first floor slab/grade shall be sloped at 1/4" per foot.
47. All indirect piping that is equal or greater then 4'-0" long shall be provided with trap at equipment connection.
48. Plumbing contractor is responsible for all services within building and to 5'-0" outside building foundation wall unless noted otherwise on plans. See site utility plans for related work by others.
49. Maintain a minimum clearance of 3'-0" in front of electrical panels and 1'-0" either side when installing plumbing systems in the same area. Pipe systems, equipment, etc. shall not be routed directly over panels or switch gear and where above may be as close as 12 inches from perimeter. Refer to adopted electrical codes where in doubt.
50. All cleanouts, valves, air chambers, etc. are to be accessible. Extend piping and provide access panels where necessary. Plumbing contractor will be required to demonstrate accessibility if it is questionable. Access panel sizes, locations, and final color shall be coordinated with the architect as well as all other trades to avoid any conflicts. Access panels required for this purpose are to be provided by plumbing contractor for installation by general contractor.
51. All plumbing system valves shall be installed in a location and orientation that will permit intended use.
52. Provide stops and/or isolation valves to each individual fixture or piece of equipment to allow for individual servicing unless noted otherwise on plans.
53. Indirect drain piping from fixtures, specialties, and equipment shall be routed to floor drain or other approved receptacles and terminated with an air gap 2 times the diameter of the drain piping but not less than a 1 inch gap. Support piping so drain piping cannot be deflected from drain source.
54. Wherever possible, horizontal soil or waste pipe shall come off top or at 45 degree vertically from center of pipe before offsetting horizontally to riser.
55. All vent terminations shall be coordinated with building structure, openings, air intakes, and other roof mounted equipment. Adjust vent through roof locations to comply with applicable code.
56. Plumbing contractor shall install air chambers on vertical drop to individual sinks with spray feature and piping to all shower valves. Install piston-type water hammer arrestors on horizontal piping prior to drop to all individual flush valve fixtures. Piston- or diaphragm-type water hammer arrestors may be utilized for water headers serving a group of fixtures within the same chase and shall be located upstream the last fixture served on the header. Locate arrestors in accessible location, or provide access panel. Size arrestors per manufacturer's recommendation for related fixture load.
57. Minimize developed length of branch runouts from circulated domestic hot water mains to fixtures and/or mixing valves whenever possible.
58. Plumbing contractor to install and test equipment per manufacturer's written instructions and recommendations to assure proper operation.
59. Insulate all above floor traps receiving chilled water or condensate with 1/2" thick elastomeric material.
60. Insulate all horizontal storm piping and exposed roof drain sumps (where applicable). See plumbing insulation specification for clarification.
61. The general contractor shall be responsible for removal and disposal of all construction debris and refuse from the job site.
62. All submittals must be sent in pdf format, highlighted or redlined
63. Upon completion of the work, the general contractor shall prepare a punch list first and notify architect to review and verify punch-list for corrections.
64. Plumbing contractor shall furnish record set of drawings with any deviations marked in red ink, within 90 days of system acceptance.

NOTICE TO CONTRACTORS

ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS THAT DIFFER FROM THAT SHOWN ON THESE PLANS SHALL BE REPORTED TO ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO SCOPE OF WORK WHICH RESULT FROM CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.

DRAWING CONVENTIONS

- NEW WORK - HEAVY AND SOLID LINES
- EXISTING TO REMAIN - LIGHT AND SOLID LINES
- REMOVE EXISTING - HEAVY AND DASHED LINES

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PROJECT:

7-ELEVEN 42655
CST

1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

GENERAL NOTES

ISSUE/ REVISIONS:

	DATE	DESCRIPTION
0	06/06/25	ISSUE FOR BID AND PERMIT

SEAL:

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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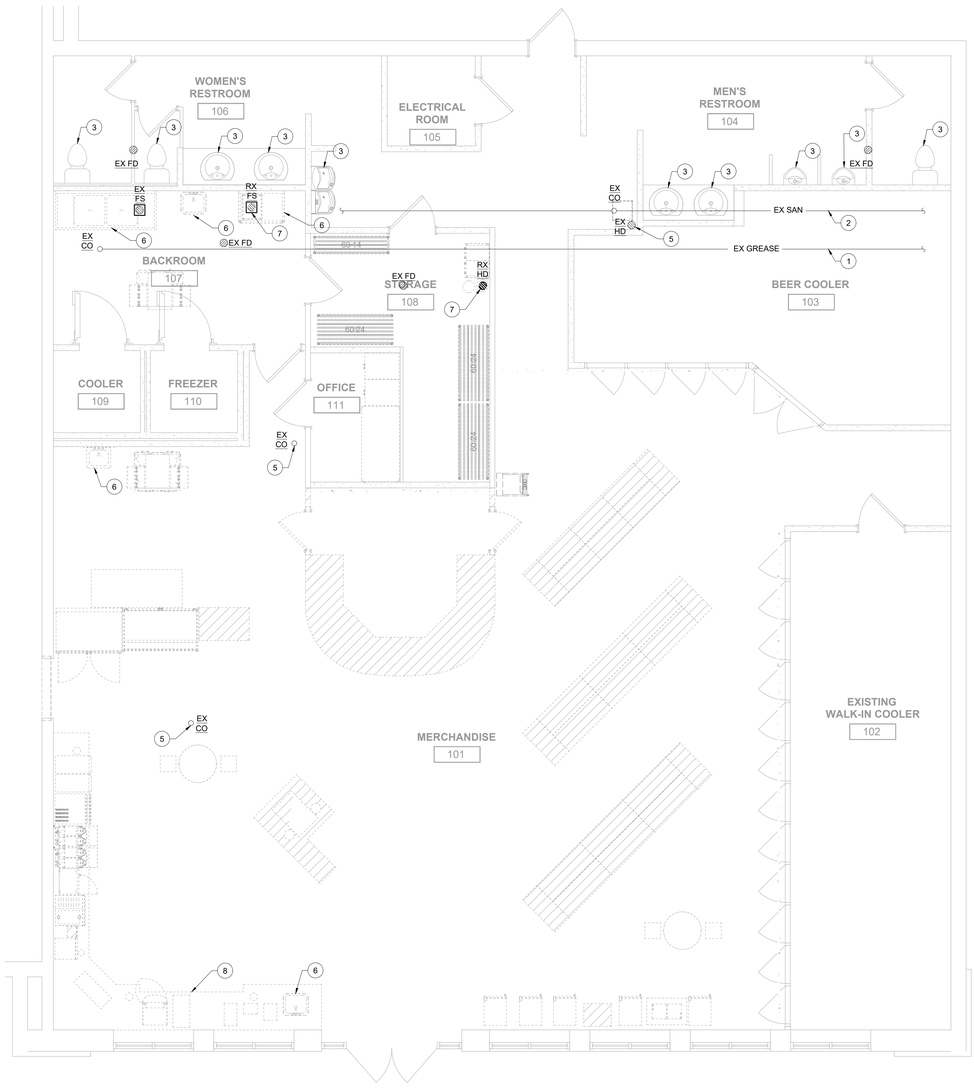
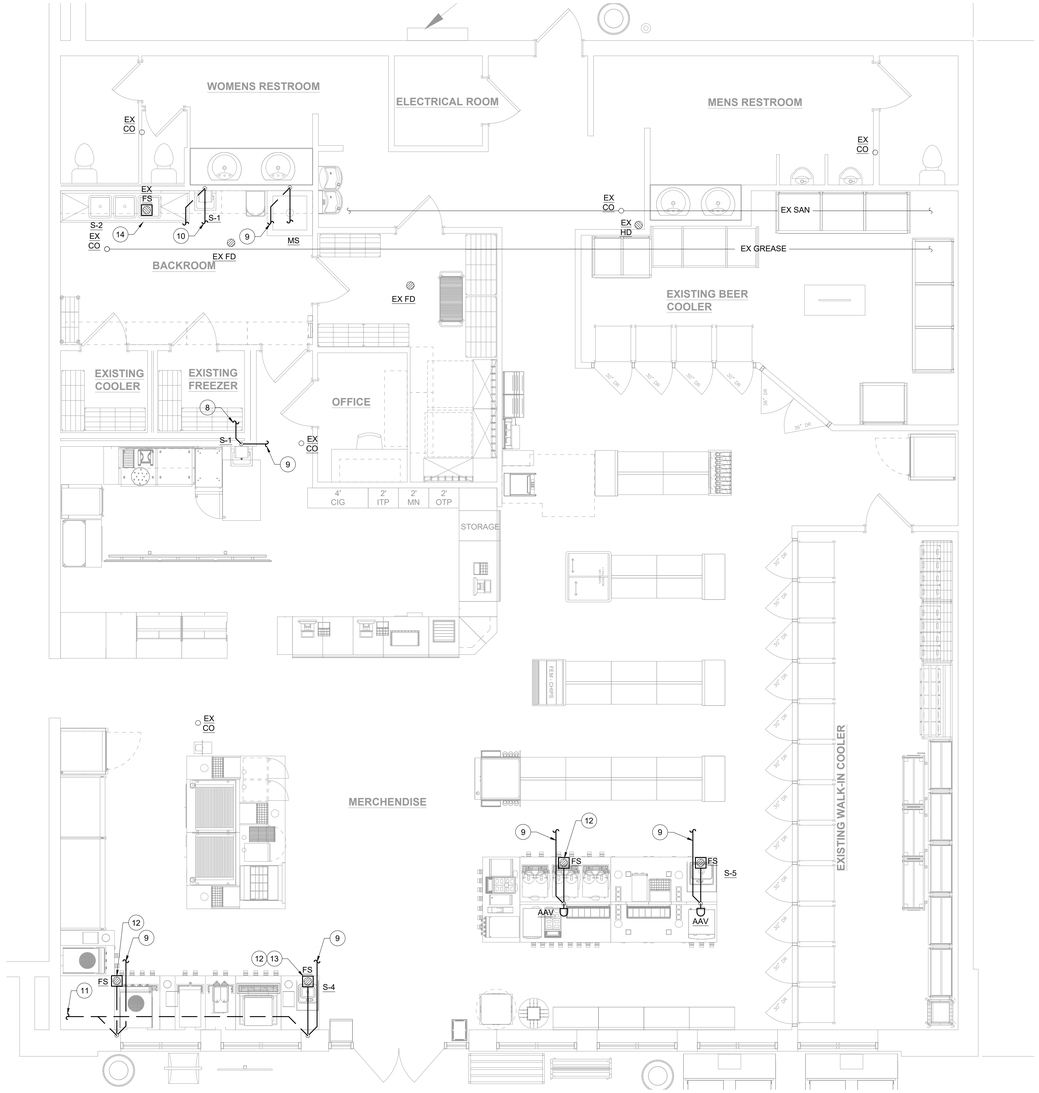


1 DRAIN PLAN - DEMOLITION

Scale: 1/4"=1'



2 DRAIN PLAN - NEW WORK

Scale: 1/4"=1'

PLUMBING NOTES

A. NOTES APPLY TO ALL PLUMBING SHEETS.

B. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.

C. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.

D. COORDINATE SEWER AND WATER CONNECTIONS WITH CIVIL AND AHJ. PROVIDE PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER AS SHOWN OR REQUIRED BY AHJ. VERIFY INVERT AND SLOPE OF INCOMING SANITARY SEWER BEFORE TRENCHING.

E. REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULE FOR ALL PIPING AND PIPE SIZES NOT SHOWN ON PLAN.

F. SANITARY AND STORM SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPE. NOTIFY 7-11 CM IF THE SLOPE CANNOT BE ACHIVED.

G. ALL SEWER PIPING BELOW SLAB TO BE 2" DIAMETER MINIMUM.

H. PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES AND CLEAN-OUTS; AND NOT ABOVE AN ACCESSIBLE CEILING.

I. PROVIDE TRAP SEAL PRIMERS AND 1/2" COPPER TUBING CONNECTION TO ALL FLOOR DRAINS AS SHOWN OR AS REQUIRED BY AHJ. CONTRACTOR SHALL VERIFY REQUIREMENTS.

J. INSTALL VTR'S, EXHAUST FANS, AND FLUES A MINIMUM 5'-0" FROM PARAPET OR OUTSIDE WALL AND 10'-0" MINIMUM FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.

K. INSTALL WATER PIPE ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.

L. WHEN DEEP FROST LOCATIONS ARE ENCOUNTERED, ROUTE SANITARY LINES UNDER BUILDING AS MUCH AS POSSIBLE.

M. PROVIDE PVC SLEEVE FOR ALL COLD/HOT WATER FLOOR PIPE PENETRATIONS. MAKE SLEEVE LARGE ENOUGH FOR INSULATION. SEAL WITH GRAY MASTIC AND ENSURE OF NO WATER PENETRATIONS.

N. PROVIDE AND INSTALL WATTS 8A VACUUM BREAKER ON ANY THREADED EXTERIOR OR INTERIOR FAUCETS.

O. ALL WATER SHUT-OFF VALVES SHALL BE "BALL LOCK" TYPE. PROVIDE SHUT-OFF VALVES AT EACH TERMINATION POINT OF ASSOCIATED EQUIPMENT.

P. PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.

PLUMBING SYMBOLS

SS	SANITARY SEWER		TEE - TURNED DOWN
GW	GREASE WASTE		TEE - TURNED UP
GI	GREASE INTERCEPTOR		BALL VALVE
	DOMESTIC COLD WATER		BACKFLOW PREVENTER
	DOMESTIC HOT WATER	FD	FLOOR DRAIN
	DOMESTIC HOT WATER RETURN	FS	FLOOR SINK
FW	FILTERED WATER	FCO	FLOOR CLEANOUT
G	NATURAL GAS	YCO	YARD CLEANOUT
CD	CONDENSATE DRAIN	FPWH	
	PLUMBING VENT	HB	HOSE BIBB
	UNION	WCO	WALL CLEANOUT
	ELBOW - TURNED DOWN		GAS PRESSURE REGULATOR
	ELBOW - TURNED UP		GAS COCK

Drawing Notes: (1) (2) (#)

1. APPROXIMATE LOCATION OF EXISTING GREASE PIPING TO EXISTING OUTSIDE UNDERGROUND GREASE INTERCEPTOR TO REMAIN. CONTRACTOR TO VERIFY EXACT SIZE AND LOCATION OF GREASE INTERCEPTOR AND PIPING PRIOR TO WORK BEING PERFORMED.
2. APPROXIMATE LOCATION OF EXISTING SANITARY PIPING. CONTRACTOR TO VERIFY EXACT SIZE AND LOCATION PRIOR TO WORK BEING PERFORMED.
3. EXISTING PLUMBING FIXTURE TO REMAIN.
4. EXISTING CLEANOUT TO REMAIN. (TYPICAL)
5. EXISTING HUB DRAIN TO REMAIN. (TYPICAL)
6. REMOVE EXISTING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING BACK TO MAINS AND CAP. (TYPICAL)
7. REMOVE EXISTING FLOOR SINK/HUBDRAIN AND REWORK AS SHOWN IN NEW WORK PLAN.
8. REMOVE EXISTING PLUMBING IN CASEWORK AS REQUIRED TO ACCOMMODATE NEW WORK
9. NEW SAN PIPING UNDER SLAB. EXTEND TO NEAREST SAN MAIN. CONTRACTOR TO FIELD LOCATE EXISTING MAIN. (TYPICAL)
10. NEW GREASE WASTE PIPING UNDER SLAB. EXTEND TO NEAREST GREASE MAIN. CONTRACTOR TO FIELD LOCATE EXISTING MAIN. (TYPICAL)
11. NEW VENT PIPING ABOVE CEILING EXTEND TO NEAREST VENT MAIN. CONTRACTOR TO FIELD LOCATE EXISTING MAIN. (TYPICAL)
12. PLUMBING CONTRACTOR TO PROVIDE FULL SIZE DRAINS FROM BEVERAGE EQUIPMENT TO FS WITH AIR GAP (TYP) (TYPICAL)
13. ROUTE FULL SIZE DRAIN FROM DUMP SINK (S4) TO FS WITH AN APPROVED AIR GAP
14. ROUTE FULL SIZE SCH 80 PVC DRAINS FROM 3 COMPARTMENT SINK (S2) TO FS WITH AN APPROVED AIR GAP. SEE DETAIL 3/P2.0 FOR MORE INFORMATION.

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CST

1360 NC 24-87, CAMERON NC 28326

DWG. TITLE:

DRAIN PIPING PLAN

ISSUE REVISIONS

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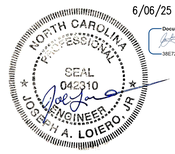

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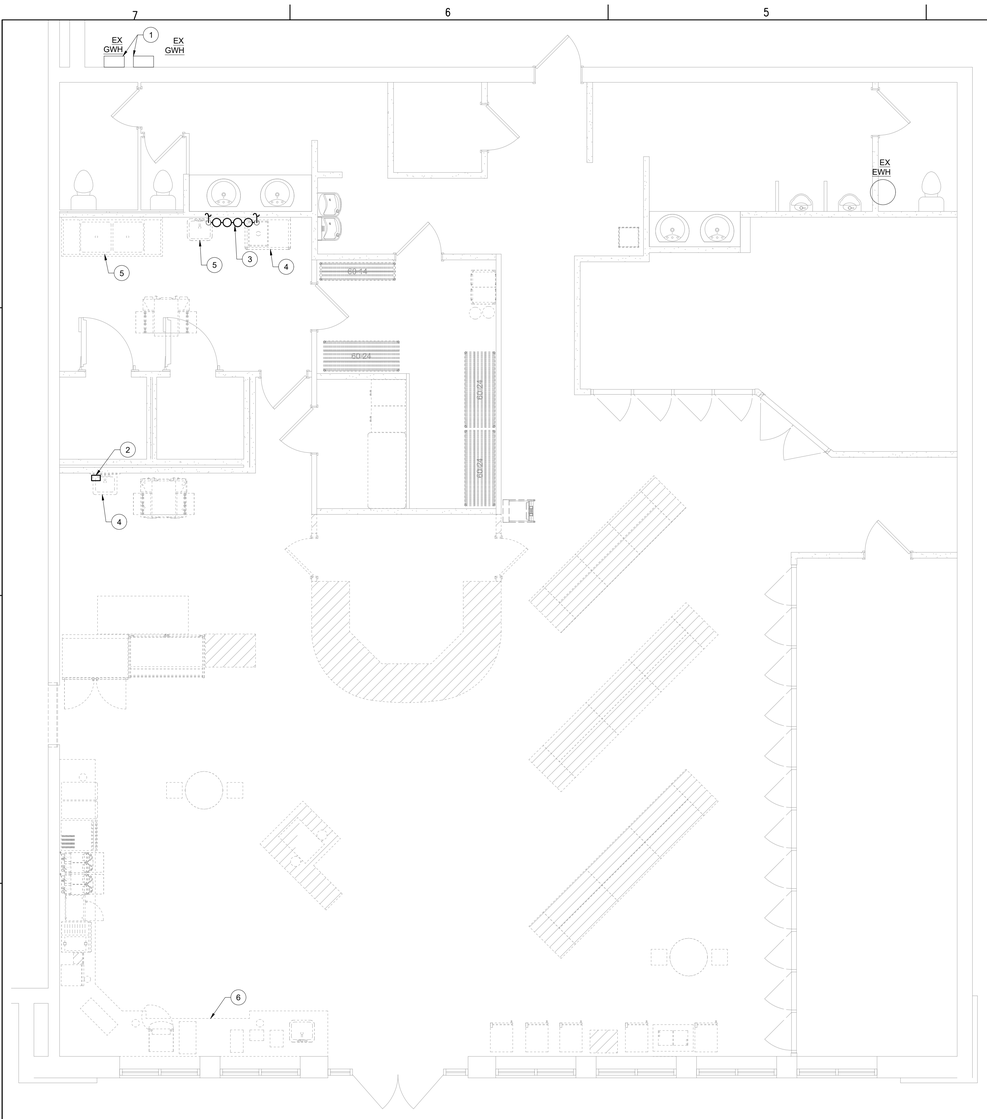

1 DOMESTIC WATER PIPING PLAN - DEMOLITION
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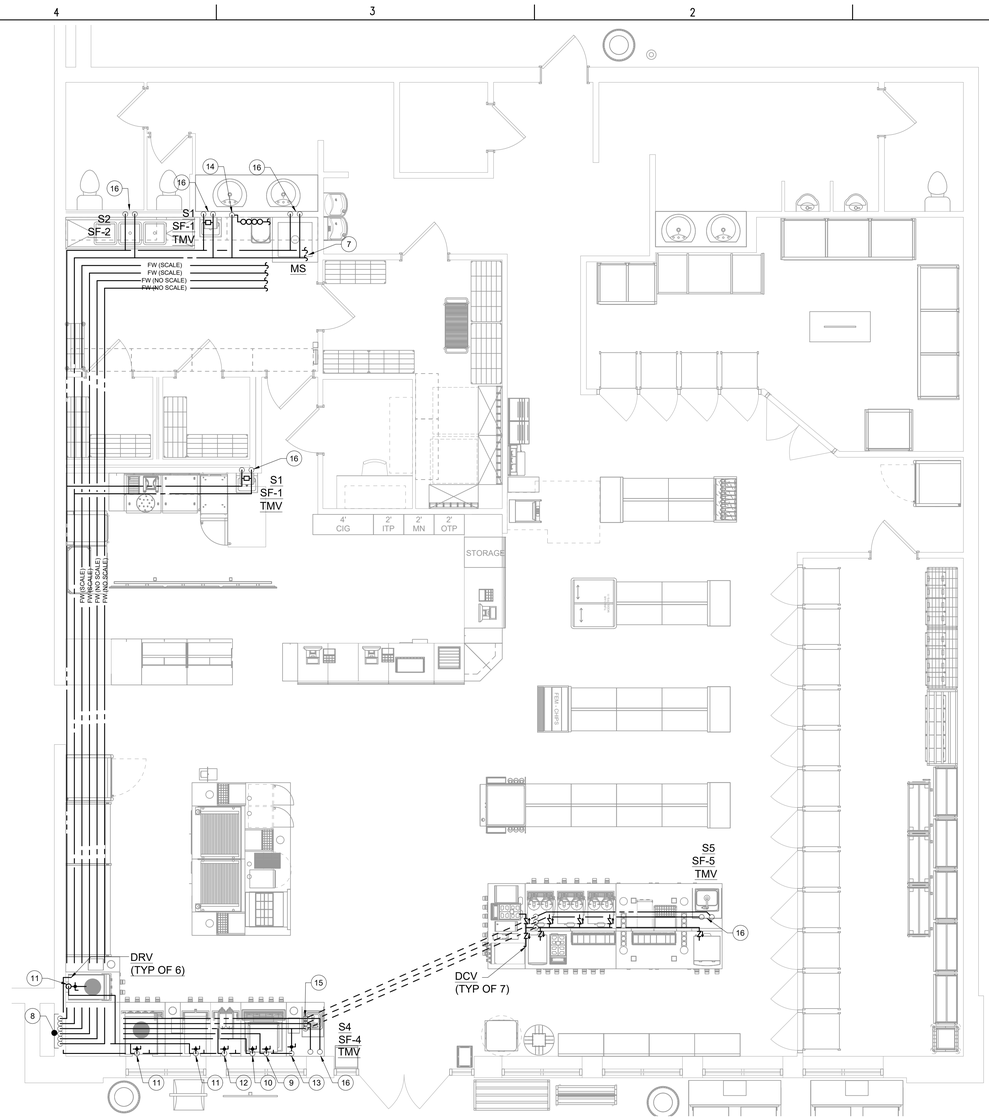

2 DOMESTIC WATER PIPING PLAN - NEW WORK
Scale: 1/4"=1'

PLUMBING NOTES	
A.	NOTES APPLY TO ALL PLUMBING SHEETS.
B.	EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
C.	PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
D.	COORDINATE SEWER AND WATER CONNECTIONS WITH CIVIL AND AHJ. PROVIDE PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER AS SHOWN OR REQUIRED BY AHJ. VERIFY INVERT AND SLOPE OF INCOMING SANITARY SEWER BEFORE TRENCHING.
E.	REFER TO RISER DIAGRAMS AND PLUMBING FIXTURE SCHEDULE FOR ALL PIPING AND PIPE SIZES NOT SHOWN ON PLAN.
F.	SANITARY AND STORM SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPE. NOTIFY 7-11 CM IF THE SLOPE CANNOT BE ACHIVED.
G.	ALL SEWER PIPING BELOW SLAB TO BE 2" DIAMETER MINIMUM.
H.	PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES AND CLEAN-OUTS; AND NOT ABOVE AN ACCESSIBLE CEILING.
I.	PROVIDE TRAP SEAL PRIMERS AND 1/2" COPPER TUBING CONNECTION TO ALL FLOOR DRAINS AS SHOWN OR AS REQUIRED BY AHJ. CONTRACTOR SHALL VERIFY REQUIREMENTS.
J.	INSTALL VTR'S, EXHAUST FANS, AND FLUES A MINIMUM 5'-0" FROM PARAPET OR OUTSIDE WALL AND 10'-0" MINIMUM FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.
K.	INSTALL WATER PIPE ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.
L.	WHEN DEEP FROST LOCATIONS ARE ENCOUNTERED, ROUTE SANITARY LINES UNDER BUILDING AS MUCH AS POSSIBLE.
M.	PROVIDE PVC SLEEVE FOR ALL COLD/HOT WATER FLOOR PIPE PENETRATIONS. MAKE SLEEVE LARGE ENOUGH FOR INSULATION. SEAL WITH GRAY MASTIC AND ENSURE OF NO WATER PENETRATIONS.
N.	PROVIDE AND INSTALL WATTS 8A VACUUM BREAKER ON ANY THREADED EXTERIOR OR INTERIOR FAUCETS.
O.	ALL WATER SHUT-OFF VALVES SHALL BE "BALL LOCK" TYPE. PROVIDE SHUT-OFF VALVES AT EACH TERMINATION POINT OF ASSOCIATED EQUIPMENT.
P.	PROVIDE SEISMIC BRACING BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.

PLUMBING SYMBOLS			
SS	SANITARY SEWER		TEE - TURNED DOWN
GW	GREASE WASTE		TEE - TURNED UP
GI	GREASE INTERCEPTOR		BALL VALVE
	DOMESTIC COLD WATER		BACKFLOW PREVENTER
	DOMESTIC HOT WATER	FD	FLOOR DRAIN
	DOMESTIC HOT WATER RETURN	FS	FLOOR SINK
FW	FILTERED WATER	FCO	FLOOR CLEANOUT
G	NATURAL GAS	YCO	YARD CLEANOUT
CD	CONDENSATE DRAIN	FPWH	
	PLUMBING VENT	HB	HOSE BIBB
	UNION	WCO	WALL CLEANOUT
	ELBOW - TURNED DOWN		GAS PRESSURE REGULATOR
	ELBOW - TURNED UP		GAS COCK

Drawing Notes: 1 2

1. EXISTING 199MBH INSTANTANEOUS WATER HEATERS TO REMAIN. CONTRACTOR TO VERIFY IN WORKING ORDER. REPLACE IF NECESSARY.
2. REMOVE EXISTING POINT OF USE WATER HEATER.
3. REMOVE AND REPLACE EXISTING WATER FILTRATION SYSTEM.
4. REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING BACK TO MAIN.
5. REMOVE EXISTING PLUMBING FIXTURE AND PREP EXISTING PIPING FOR NEW FIXTURE.
6. REMOVE ALL BEVERAGE BAR PLUMBING BACK TO MAINS AND REWORK AS SHOWN IN NEW WORK.
7. EXTEND TO EXISTING DOMESTIC WATER MAINS. CONTRACTOR TO FIELD LOCATE AND VERIFY SIZES OF MAINS PRIOR TO WORK BEING PERFORMED.
8. ROUTE PIPING DOWN INSIDE WALL INTO CASEWORK AND EXTEND TO SYSTEMS AS SHOWN IN PLAN AND RISER DIAGRAM.
9. ROUTE 1/2" FW TO ICE MAKER WITH SHUT OFF VALVE AND DCV (ASSE 1022)
10. ROUTE 1/2" FW TO POST MIX WITH SHUT OFF VALVE AND DCV (ASSE 1022)
11. ROUTE 3/4" FW TO SLURPEES/LEMONADE WITH SHUT OFF VALVE AND DCV (ASSE 1022)
12. ROUTE 3/4" FW TO ICED TEA BREWER WITH SHUT OFF VALVE AND DCV (ASSE 1022)
13. 1/2" CW ROUTED DOWN WALL INTO CASEWORK FOR AUTO-FLUSH SYSTEM, SEE DRV ON SPECIALTY PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION, INCLUDE WITH DCV (ASSE 1022) PRIOR TO CONNECTION. INSTALL PER MANUFACTURER REQUIREMENTS.
14. NEW 3/4" CW TO NEW FILTER SYSTEM. REFER TO DETAIL 1/P2.0.
15. 1/2" CW, 1/2" HW, 3/4" FW ROUTED DOWN TO UNDER SLAB AND EXTENDED TO COFFEE BAR.
16. 1/2" CW AND 1/2" HW ROUTED TO NEW PLUMBING FIXTURE.

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PROJECT

7-ELEVEN 42655
CST

1360 NC 24-87, CAMERON NC 28326

DRG. TITLE:

DOMESTIC WATER PIPING PLAN

ISSUE / REVISIONS

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SEAL

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

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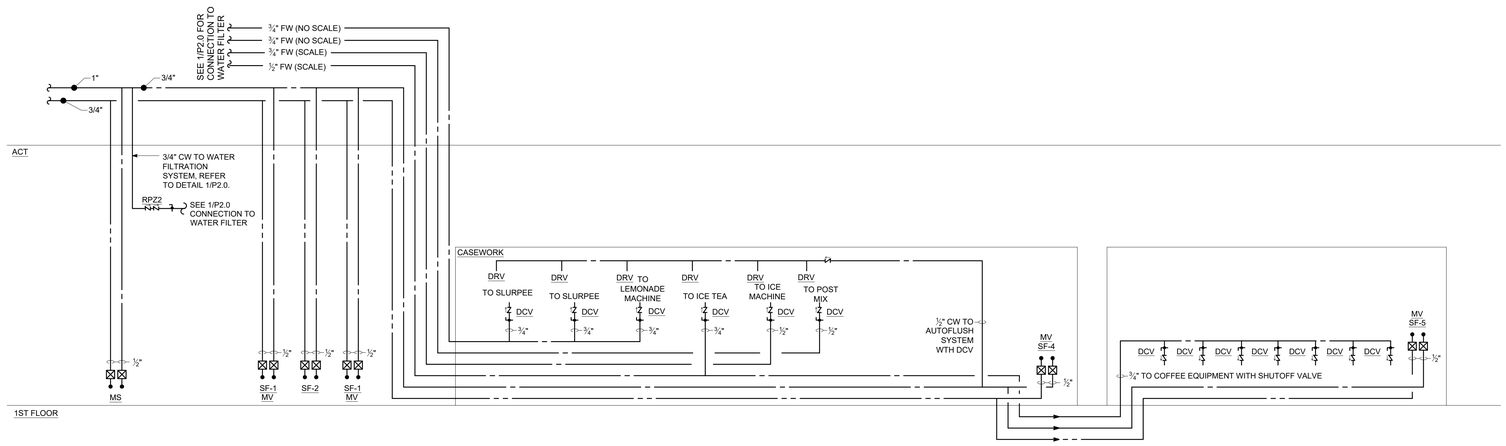
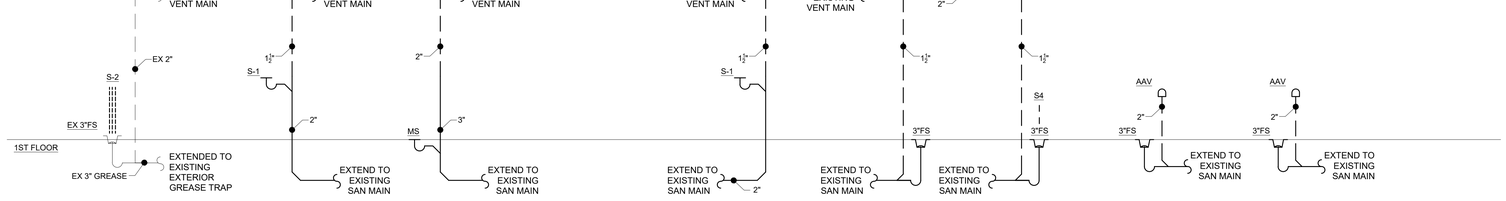


DOMESTIC WATER RISER DIAGRAM

NO SCALE

NOTES:
1) EACH OF THE HAND SINKS SHALL BE PROVIDED WITH UNDERSINK THERMOSTATIC MIXING VALVE SET AT 105°F



SANITARY/GREASE RISER DIAGRAM

NO SCALE

NOTES:
1) ALL VENTING PIPING FROM HORIZONTAL BRANCH SHALL BE FROM TOP OF BRANCH AT A MINIMUM 45 DEGREE ANGLE AND SLOPED UPWARD. NO FLAT VENTING IS ALLOWED. REFER TO PLUMBING CODE SECTION 905.4.
2) VERTICAL DISTANCE BETWEEN FIXTURE OUTLET AND TRAP SHALL NOT EXCEED 24". REFER TO PLUMBING CODE SECTION 1002.1.

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PLUMBING RISERS

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PLUMBING FIXTURE SCHEDULE (NOT ALL DEVICES ARE USED ON THIS PROJECT)												
								CONNECTION				
TAG	FIXTURE	ORACLE	MANUFACTURER	MODEL	FURNISH BY	INSTALL BY	SUPPLIER	CW	HW	WASTE	VENT	DESCRIPTION
DCV	DUAL CHECK VALVE	-	WATTS	SD-3	GC	GC	--	SEE PLAN	--	--	--	LEAD FREE STAINLESS STEEL BODY WITHS TRAINER AND VENT DISCHARGE PORT. (ASSE 1022)
DRV	DRAIN VALVE	-	GRANZGOW	E2B15-00V	GC	GC	--	1/4"	--	--	--	ELECTRONIC DRAIN VALVE, TIMER SET TO 15 SECONDS ON, 15 MINUTES OFF.
FCO	FLOOR CLEANOUT	-	SIOUX CHIEF	851	GC	GC	--	--	--	NOTE A	--	PVC BODY, ROUND HEAVY-DUTY CAST IRON TOP. POLYPROPYLENE OR ABS PLUG, ADJUSTABLE TO FINISH SURFACE.
FD	FLOOR DRAIN	-	SIOUX CHIEF	832-36PNQ	GC	GC	--	--	--	3"	1-1/2"	3" LIGHT DUTY DRAIN WITH 7" SQUARE TOP, PVC BODY WITH NICKEL BRONZE RING AND STRAINER.
FS	FLOOR SINK	-	SIOUX CHIEF	861	GC	GC	--	--	--	3"	1-1/2"	WHITE PVC 12"X12" FLOOR SINK WITH 2/4" HEAVY-DUTY PVC HALF GRATE, SEDIMENT BUCKET.
GT	GREASE TRAP	-	SCHIER (GREAT BASIN)	GB-50	GC	GC	--	--	--	3"	--	SEAMLESS MOLDED POLYETHYLENE TANK, 50 GPM FLOW RATE, 439.5 LB GREASE CAPACITY, 65 GALLON LIQUID CAPACITY, W/ BUILT-IN FLOW CONTROL, INTEGRAL AIR RELIEF/ANTI SYPHON, FIELD ADJUSTABLE RISER SYSTEM, 4" PLAIN INLET/OUTLET, WATER/GAS TIGHT SEAL COVER WITH MIN 16,000 LB LOAD CAPACITY, CERTIFIED TO ASME A112.14.3 AND CSA B481.1.
MS	MOP SINK	-	FIAT	MSB-2424	GC	GC	--	1/2"	1/2"	3"	1-1/2"	FIXTURE AND HARDWARE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR. NO .830AA FAUCET WITH INTEGRAL VACUUM BREAKER, NO. 832-AA HOSE AND BRACKET NO. 1453BB FLOOR STRAINER AND NO. 899-CC MOP HANGER.
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER	-	WATTS	LF909QTS	GC	GC	--	2"	--	--	--	LEAD FREE BRONZE BODY WITH SHUT-OFF VALVES, Y STRAINER, AND TEST COCKS. (ASSE 1013)
S1	HAND SINK	03291395	JOHN BOOS	PBHS-W0140-SSLR	TURNKEY	GC	--	1/2"	1/2"	1-1/2"	1-1/2"	FIXTURE AND HARDWARE OWNER FURNISHED, INSTLALLED BY PLUMBING CONTRACTOR. ADA COMPLIANT, CUSTOM WALL MOUNT 10" FRONT TO BACK X 14" W X 6" D HAND SINK (PRODUCTION LINE). PROVIDED WITH BRASS FAUCET (REF SF-1 THIS SCHEDULE) & P-TRAP, INSTALL TRUEBRO LAV GUARD 2 PROTECTIVE PIPE COVERS ON EXPOSED HOT WATER AND DRAIN LINES, STOP VALVES, AND TEMPERATURE-ACTIVATING MIXING VALVE SET TO 105°F.
S2	3-COMP SINK	03119411	TURBO AIR	TSA-3-D1-711	TURNKEY	GC	--	1/2"	1/2"	2"(3)	--	BOWL SIZE 12"x19"x12", FIXTURE AND HARDWARE OWNER FURNISHED, INSTALLED BY PLUMBING CONTRACTOR, PROVIDED WITH FAUCET (REF SF-2 THIS SCHEDULE), P-TRAP AND STOP VALVES.
S4	DUMP SINK	-	DAYTON	K1115152	TURNKEY	GC	ROYSTON	1/2"	1/2"	1-1/2"	1-1/2"	FIXTURE AND HARDWARE PROVIDED FURNISHED, INSTALLED BY PLUMBING CONTRACTOR. STAINLESS STEEL FIXTURE, DECK MOUNTED BRASS FAUCET (REF SF-4 THIS SCHEDULE) WITH AERATOR & P-TRAP, PROVIDED WITH STOP VALVES, FLEXIBLE SUPPLY RISERS, TUEBRO LAV GUARD 2 PROTECTIVE PIPE COVERS.
S5	DUMP SINK	-	ELKAY	PSR19181	TURNKEY	GC	ROYSTON	1/2"	1/2"	1-1/2"	1-1/2"	FIXTURE AND HARDWARE PROVIDED FURNISHED, INSTALLED BY PLUMBING CONTRACTOR. STAINLESS STEEL FIXTURE, DECK MOUNTED BRASS FAUCET (REF SF-5 THIS SCHEDULE) WITH AERATOR & P-TRAP, PROVIDED WITH STOP VALVES, FLEXIBLE SUPPLY RISERS, TUEBRO LAV GUARD 2 PROTECTIVE
SF-1	SINK FAUCET	03136254	T&S BRASS AND BRONZE WORKS, INC.	B-1146	TURNKEY	GC	--	1/2"	1/2"	--	--	4" WALL MOUNT WORKBOARD FAUCET, QUARTER-TURN ETERNA CARTRIDGES WITH SPRING CHECKS, LEVER HANDLES, 5 3/4" SWIVEL GOOSENECK, 2.2 GPM AERATOR.
SF-2	SINK FAUCET	03164018	TURNKEY RESOURCES	MPY8WLN-08CR	TURNKEY	GC	--	1/2"	1/2"	--	--	8" WALL MOUNT MIXING FAUCET, QUARTER-TURN CERAMA CARTRIDGES WITH CHECK VALVES, LEVER HANDLES, ADD-ON FAUCET WITH 8" SQING NOZZLE, COMPACT SPRING, 24" FLEXIBLE STAINLESS STEEL HOSE, 0.65 GPM LOW FLOW SPRAY VALVE, 6" WALL BRACKET
SF-4	SINK FAUCET	-	MOEN	5995	TURNKEY	GC	ROYSTON	1/2"	1/2"	--	--	FIXTURE AND HARDWARE OWNER FURNISHED, INSTALLED BY PLUMBING CONTRACTOR. ADA COMPLAINT, 1.5 GPM FLOW RATE STAINLESS STEEL FAUCET.
TMV	THERMOSTATIC MIXING VALVE	-	WATTS	LFUSG-B-M1	GC	GC	--	1/2"	1/2"	--	--	+/- 3°F UP TO 120°F WITH BUILT-IN CHECK VALVES, BRASS BODY, AND COPPER THERMOSTAT.
WF-3	FILTER CARTRIDGE	07883005	ECOLAB	92213690	TURNKEY	GC	--	--	--	--	--	TO20S SCALE FILTER CARTRIDGE
WF-4	FILTER CARTRIDGE	07883001	ECOLAB	92213686	TURNKEY	GC	--	--	--	--	--	TO14 FILTER CARTRIDGE
WF-8	WATER FILTER MANIFOLD	04300903	ECOLAB	9320-2357			ECO-LAB, INC.	1"	--	--	--	SPLIT TRIPLE HEAD MANIFOLD

NOTES:
A. CLEANOUT (FCO, YCO) SHALL BE SAME SIZE AS PIPE BEING SERVED.

MANUFACTURER CONTACT INFORMATION			
MANUFACTURER	CONTACT	PHONE	EMAIL
ECOLAB, INC	JENNIFER GREENE	612-366-3636	JENNIFER.GREENE@ECOLAB.COM
FERGUSON ENTERPRISES, LLC	JASON WADDLES	757-234-8204	NA.PORJECTS@FERGUSON.COM
SCHIER PRODUCTS	SEAN MOLEN	8165063203	SEAN.MOLEN@SHIERPRODUCTS.COM

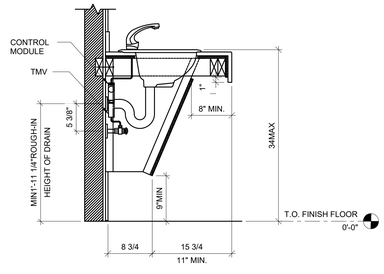
RECIRCULATING PUMP SCHEDULE (IF REQUIRED)							
TAG	QTY	MANUFACTURER	MODEL	HEAD LOSS (FT)	ELECTRICAL	NOTES	FURNISH BY	INSTALL BY
P-1	1	BELL & GOSSETT	NBF-9U/LW	11 @ 5 GPM	120/1	A-D	GC	GC

NOTES:
A LEAD FREE CONSTRUCTION.
B. PROVIDE WITH FLEXIBLE PLUG-IN CORD.
C. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
D. PROVIDE WITH FLOW AND TEMPERATURE SWITCH PER 2018 IECC C404.7, REF 2/P2.0.

WATER ROUGH-IN HEIGHTS (NOT ALL USED ON EVERY PROJECT)			
TAG	SERVICE	SIZE	HEIGHT (AFF)
WC	COLD WATER	1"	28"
LAV	HOT & COLD WATER	1/2"	22"
MS	HOT & COLD WATER	1/2"	36"
S1	HOT & COLD WATER	1/2"	18"
S2	HOT & COLD WATER	1/2"	24"
S3	HOT & COLD WATER	1/2"	18"
HB	COLD WATER	1/2"	24"
UR	COLD WATER	3/4"	46-3/4"

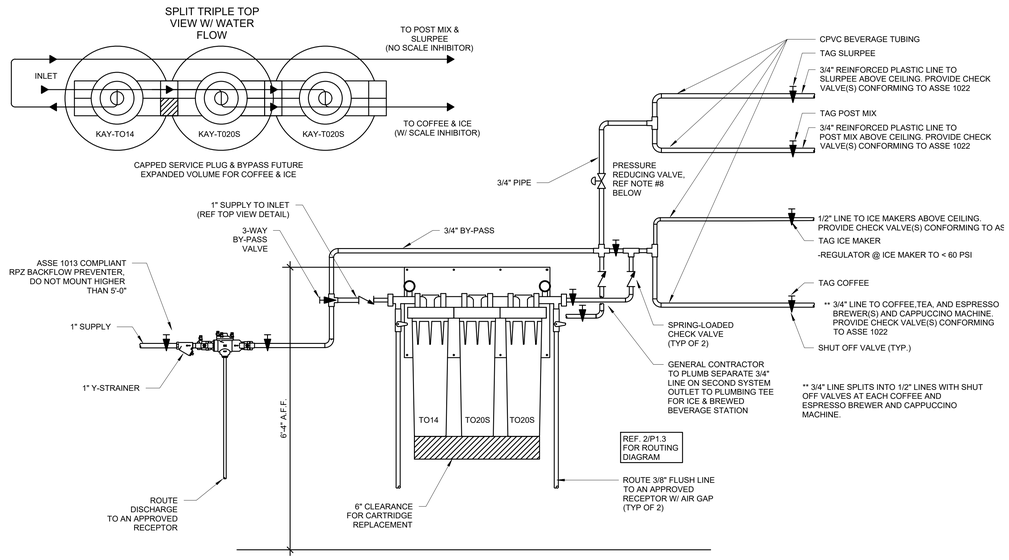
NOTES:
A FIELD VERIFY ROUGH-IN REQUIREMENTS PER MANUFACTURER'S RECOMMENDATIONS.

BACKFLOW PREVENTION SCHEDULE (NOT ALL USED ON EVERY PROJECT)	
EQUIPMENT	BACKFLOW PREVENTION
HOSE BIBB	INTEGRAL VACUUM BREAKER
MOP SINK	INTEGRAL VACUUM BREAKER
3-COMPARTMENT SINK	AIR GAP
HAND SINK	AIR GAP
DUMP SINK	AIR GAP
ICE MAKER	DCV (ASSE 1022)
CARBONATED BEVERAGE DISPENSER	DCV (ASSE 1022)
SLURPEE/FROZEN LEMONADE MACHINE	DCV (ASSE 1022)
COFFEE/BEVERAGE DISPENSERS	DCV (ASSE 1022)
FOUNTAIN DRAINS	DCV (ASSE 1022)
REFRIGERATION CONDENSATE LINES	AIR GAP
TROUGH FOUNTAIN DRAINS	DRV



4 LAVATORY SHROUD
1" = 1'-0"

NOTE: CLEAR PEX OR TUBING IS NOT ALLOWED



FILTER SYSTEM REQUIREMENTS:

1. WATER SUPPLY MUST BE 1" INCH.
2. WATER SHUT-OFF VALVE SHALL BE "BALL LOCK" TYPE POSITIVE ON-OFF.
3. DRAIN MUST BE PROVIDED TO PERMIT FLUSHING OF NEW FILTERS.
4. KAY HIGH CAPACITY KAY-TO14 FILTER WILL BE REPLACED AS REQUIRED BASED ON GALLONAGE.
5. WATER FOR ICE MAKERS, COFFEE MAKERS, AND CAPPUCCINO MACHINES SHALL BE ROUTED THROUGH THE ECOLAB (2)KAY-TO20S FILTER.
6. WATER FOR FSD AND FCB EQUIPMENT SHOULD NOT BE ROUTED THROUGH THE KAY-TO20S FILTERS (WILL REDUCE CARBONATION).
7. KAY-TO14 AND/OR TO20S FILTERS MAY BE CHANGED INDIVIDUALLY AND/OR ADDITIONALLY AS NEEDED. KAT-TO14 PROVIDES UP TO 75,000 GALLONS. (2) KAY-TO20S FILTERS WILL PROVIDE UP TO 200,000 GALLONS OF SCALE CONTROL.
8. HONEYWELL PRESSURE REDUCING VALVE MODEL DSO5C1030 (SET AT 65 PSI) INSTALLED BEFORE FIRST TEE TO BEVERAGE EQUIPMENT.
9. ECOLAB RECOMMENDS MINIMUM INLET PRESSURE TO BE 45 PSI AND WILL REPORT BACK / CALL OUT ANY UNITS WITH INLET FLOW BELOW 45 PSI FOR REVIEW. IN THIS CIRCUMSTANCE, GRUNFOS MQ3-35 BOOSTER PUMP ASSEMBLY IS RECOMMENDED.
10. KAY HSD 20 PREFILTER - ONLY REQUIRED IN EXTREME WATER CONDITION AREAS AND WILL REQUIRE EXTRA SINGLE MANIFOLD IN FRONT OF STANDARD SYSTEM.

COFFEE RELATED EQUIPMENT ON 3/4" FILTER LINE:

REQUIREMENTS FOR COFFEE RELATED EQUIPMENT:
3/4" FILTERED WATER LINE TO COFFEE RELATED EQUIPMENT IS IN THE FOLLOWING ORDER OF CONNECTION:

1. BUNN ICED TEA BREWERS (2)
2. CURTIS CAPPUCCINO
3. BUNN NITRO
4. BUNN COFFEE BREWERS (2)
5. FOLLETT ICE MAKER
6. FRANKE BEAN TO CUP (2)

ECOLAB KAY-TO14S (SCALE CONTROL FILTER) WILL SUPPORT COFFEE FILTRATION APPLICATION.

ECOLAB HIGH CAPACITY FILTERS WILL BE REPLACED AS REQUIRED BASED ON GALLONAGE.

ECOLAB RECOMMENDS A SEPARATE KAY-TO14S (SCALE CONTROL FILTER) INSTEAD OF THE SS-IMF SCALE STICKS FOR UNITS REQUIRING 15,000 GALLONS OR MORE OF SCALE CONTROL OR WHERE THE RAW WATER HARDNESS EXCEEDS 10 GPG HARDNESS TO PROTECT EQUIPMENT FROM EXCESS WATER HARDNESS SCALE BUILD-UP.

ECOLAB HIGH CAPACITY TO14 FILTERS TO PROVIDE 0.5 MICRON AND 75,000 GALLONS AT 5 GPM AND TO20S FILTERS TO PROVIDE 0.5 MICRON AND 100,000 GALLONS AT 10 GPM.

1 ECOLAB WATER PURIFICATION SYSTEM
1/4" = 1'-0"

BRIAN D. LAUG, AIA NCARB
ARCHITECT

16925 OLD SAWMILL ROAD
WOODBINE, MD 21797
443-250-6557

CONSULTANT
Joseph A. Loiero, Jr.
NC PE License #042310
2007 Twin Lakes Dr,
Jarrettsville, MD, 21084
410-776-5868

PROJECT
7-ELEVEN 42655
CST
1360 NC 24-87, CAMERON NC 28326

DWG. TITLE:
PLUMBING DETAILS

ISSUE/ REVISIONS

	DATE:	DESCRIPTION:
0	06/06/25	ISSUE FOR BID AND PERMIT

SEAL

6/06/25

NORTH CAROLINA PROFESSIONAL SEAL 042310 ENGINEER JOSEPH A. LOIERO JR

DocuSigned by: 38E7250D67A54BA...

DRAWN BY:	CHECKED BY:
JAL	JAL
SCALE:	PROJECT No:
1/4" = 1'-0"	JAL#25-008
DATE:	FILE NAME:
6/06/25	

SHEET NO:
P2.0

Initial Application Date: 06/18/2025

Application # _____

DRB # _____ CU # _____

COMMERCIAL

COUNTY OF HARNETT LAND USE APPLICATION

Central Permitting (Physical) 420 McKinney Pkwy, Lillington, NC 27546 (Mailing) PO Box 65 Lillington NC 27546 Phone: (910) 893-7525 opt # 1 Fax: (910) 893-2793 www.harnett.org/permits

LANDOWNER: PMG CAROLINAS LLC Mailing Address: 1709 CLINTON ROAD

City: FAYETTEVILLE State: NC Zip: 28312 Contact # 410-652-3693 Email: CDECRE@PETROMG.COM

APPLICANT*: EVIE LAUG Mailing Address: 516 N CHARLES STREEET SUITE 500

City: BALTIMORE State: MD Zip: 21201 Contact # 301-252-1284 Email: ELAUG@VERIZON.NET

*Please fill out applicant information if different than landowner

CONTACT NAME APPLYING IN OFFICE: _____ Phone # _____

Address: 1360 NC 24-87 CAMERON NC 28326 PIN: _____

Zoning: _____ Watershed: _____ Flood: _____ Deed Book Page: _____ / _____.

Setbacks – Front: _____ **Back:** _____ **Side:** _____ **Corner:** _____

PROPOSED USE:

- ❑ Multi-Family Dwelling No. Units: _____ No. Bedrooms/Unit: _____
- ■ Business Sq. Ft. Retail Space: 3,810 Type: CONVENIENT STORE # Employees: 6 Hours of Operation: 24/7
- ❑ Daycare # Preschoolers: _____ # Afterschoolers: _____ # Employees: _____ Hours of Operation: _____
- ❑ Industry Sq. Ft: _____ Type: _____ # Employees: _____ Hours of Operation:
- ❑ Church Seating Capacity: _____ # Bathrooms: _____ Kitchen: _____
- ❑ Accessory/Addition/Other (Size _____x_____) Use: _____

Water Supply: X County _____ Existing Well _____ New Well *(# of dwellings using well _____)* ***Must have operable water before final**
(Need to Complete New Well Application at the same time as New Tank)

Sewage Supply: _____ New Septic Tank ____ Expansion ____ Relocation____Existing Septic Tank X County Sewer
(Complete Environmental Health Checklist on other side of application if Septic

Comments: _____

INTERIOR CONSTRUCTION ONLY:

RENOVATION OF A ONE STORY, CONVENIENCE STORE BUILDING. INTENT IS TO REMOVE THE EXISTING TENANT FINISHES FROM THE STORE AND UPDATE INTERIOR CONSTRUCTION AS REQUIRED TO REBRAND STORE TO A 7-11.

If permits are granted I agree to conform to all ordinances and laws of the State of North Carolina regulating such work and the specifications of plans submitted.

I hereby state that foregoing statements are accurate and correct to the best of my knowledge. Permit subject to revocation if false information is provided.

_____ 06/18/2025

Signature of Owner or Owner's Agent **Date**

****This application expires 6 months from the initial date if permits have not been issued****

RECORDED DEED (OR OFFER TO PURCHASE) AND PLAT ARE REQUIRED WHEN APPLYING FOR LAND USE APPLICATION

****It is the owner/applicants responsibility to provide the county with any applicable information about the subject property, including but not limited to: boundary information, house location, underground or overhead easements, etc. The county or its employees are not responsible for any incorrect or missing information that is contained within these applications.****

Harnett COUNTY NORTH CAROLINA

This application expires 6 months from the initial date if permits have not been issued
APPLICATION CONTINUES ON BACK

****This application expires 6 months from the initial date if permits have not been issued****

This application to be filled out when applying for a septic system inspection.

County Health Department Application for Improvement Permit and/or Authorization to Construct

IF THE INFORMATION IN THIS APPLICATION IS FALSIFIED, CHANGED, OR THE SITE IS ALTERED, THEN THE IMPROVEMENT PERMIT OR AUTHORIZATION TO CONSTRUCT SHALL BECOME INVALID. The permit is valid for either 60 months or without expiration depending upon documentation submitted. (Complete site plan = 60 months; Complete plat = without expiration

☐ ***Environmental Health New Septic System***

- **All property irons must be made visible.** Place "pink property flags" on each corner iron of lot. All property lines must be clearly flagged approximately every 50 feet between corners.
- Place "orange house corner flags" at each corner of the proposed structure. Also flag driveways, garages, decks, out buildings, swimming pools, etc. Place flags per site plan developed at/for Central Permitting.
- Place orange Environmental Health card in location that is easily viewed from road to assist in locating property.
- If property is thickly wooded, Environmental Health requires that you clean out the **undergrowth** to allow the soil evaluation to be performed. Inspectors should be able to walk freely around site. ***Do not grade property***.
- ***All lots to be addressed within 10 business days after confirmation. $25.00 return trip fee may be incurred for failure to uncover outlet lid, mark house corners and property lines, etc. once lot confirmed ready.***

☐ ***Environmental Health Existing Tank Inspections***

- Follow above instructions for placing flags and card on property.
- Prepare for inspection by removing soil over **outlet end** of tank as diagram indicates, and lift lid straight up (*if possible*) and then **put lid back in place**. (Unless inspection is for a septic tank in a mobile home park)
- **DO NOT LEAVE LIDS OFF OF SEPTIC TANK**

"MORE INFORMATION MAY BE REQUIRED TO COMPLETE ANY INSPECTION"

SEPTIC

If applying for authorization to construct please indicate desired system type(s): can be ranked in order of preference, must choose one.

{__} Accepted {__} Innovative {__} Conventional {__} Any

{__} Alternative {__} Other _____

The applicant shall notify the local health department upon submittal of this application if any of the following apply to the property in question. If the answer is "yes", applicant **MUST ATTACH SUPPORTING DOCUMENTATION**:

{__}YES {__} NO Does the site contain any Jurisdictional Wetlands?

{__}YES {__} NO Do you plan to have an irrigation system now or in the future?

{__}YES {__} NO Does or will the building contain any drains? Please explain._____

{___}YES {___} NO Are there any existing wells, springs, waterlines or Wastewater Systems on this property?

{__}YES {__} NO Is any wastewater going to be generated on the site other than domestic sewage?

{__}YES {__} NO Is the site subject to approval by any other Public Agency?

{__}YES {__} NO Are there any Easements or Right of Ways on this property?

{__}YES {__} NO Does the site contain any existing water, cable, phone or underground electric lines?

If yes please call No Cuts at 800-632-4949 to locate the lines. This is a free service.

I Have Read This Application And Certify That The Information Provided Herein Is True, Complete And Correct. Authorized County And State Officials Are Granted Right Of Entry To Conduct Necessary Inspections To Determine Compliance With Applicable Laws And Rules. I Understand That I Am Solely Responsible For The Proper Identification And Labeling Of All Property Lines And Corners And Making The Site Accessible So That A Complete Site Evaluation Can Be Performed.