RELEASED FOR CONSTRUCTION

## **General Project Notes**

1. CODE COMPLIANCE: THE GENERAL CONTRACTOR, ALL SUBCONTRACTORS AND SUPPLIERS PERFORMING WORK OR SUPPLYING MATERIALS FOR CONSTRUCTION SHALL ENSURE THAT SUCH WORK AND MATERIAL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES AS ADOPTED AND OTHER APPLICABLE STANDARDS INCLUDING THE AMERICANS WITH DISABILITIES ACT.

2. PERMITS: THE GENERAL CONTRACTOR AND ANY SUBCONTRACTORS WITH WORK REQUIRING PERMITS SHALL OBTAIN AND POST AS REQUIRED BY THE CODE ENFORCEMENT AUTHORITY ALL SUCH PERMITS.

2.1 TEMPORARY PERMITS: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY SPECIAL PERMITS THAT MAY BE REQUIRED TO CLOSE STREETS, WORK IN PUBLIC OR PRIVATE RIGHTS OF WAY OR OTHERWISE WORK ON PROPERTY NOT UNDER THE DIRECT CONTROL OF THE OWNER OR THEIR AGENTS. 2.2 INSPECTIONS: SCHEDULE AND CONDUCT ALL REQUIRED INSPECTIONS AND APPROVALS, PROVIDE ALL DOCUMENTATION REQUIRED TO OBTAIN A FINAL CERTIFICATE OF OCCUPANCY.

3. VERIFICATION OF CONDITIONS: FIELD VERIFY EXISTING SITE CONDITIONS, DIMENSIONS, ELEVATIONS, UTILITIES AND BECOME FULLY INFORMED AS TO THE SCOPE OF WORK, REPORT ANY DISCREPANCIES CONFLICTING WITH THE WORK TO

3.1 ADJACENT PROPERTIES: PROTECT ADJACENT PRIVATE PROPERTIES PUBLIC RIGHT-OF-WAY FROM DAMAGE DURING CONSTRUCTION AND ENSURE USE OF SUCH PROPERTY IS NOT ADVERSELY AFFECTED BY THE CONSTRUCTION PROJECT. ANY CONSTRUCTION WORK TO DISRUPT ADJACENT PROPERTIES THAN THE GENERAL CONTRACTOR SHALL SCHEDULE SUCH WORK WITH THE PROPERTY

3.2 LIFE SAFETY SYSTEMS: ALL EXISTING LIFE SAFETY PROVISIONS SHALL BE MAINTAINED DURING CONSTRUCTION.

3.3 EROSION CONTROL: ANY SITE WORK SHALL MAKE USE OF APPROPRIATE EROSION CONTROL THAT IS COMPLIANT WITH STATE AND LOCAL REQUIREMENTS. 3.4 UTILITY COORDINATION: COORDINATE WORK AND UTILITY CONNECTIONS WITH LOCAL UTILITY PROVIDERS.

3.5 CLEANUP: MAINTAIN A CLEAN AND SAFE CONSTRUCTION SITE. ALL CONSTRUCTION WASTE SHALL BE REMOVED FROM THE WORK AREA IN A TIMELY MANNER. THE CONSTRUCTION AREA SHALL BE SWEPT ON A REGULAR BASIS TO MITIGATE DUST AND TRASH.

4. DRAWINGS AND SPECIFICATIONS: THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO GUIDE AND DIRECT THE WORK NECESSARY FOR COMPLETION OF THE BUILDING OR BUILDING IMPROVEMENTS DESCRIBED HEREIN. THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE TO PROVIDE ALL MATERIALS. LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE CONSTRUCTION PROJECT. 4.1 SCALING DRAWINGS: DO NOT SCALE ANY DRAWINGS, UNLESS INDICATED OTHERWISE ALL DIMENSIONS ARE TO THE FACE OF WALLS AND CENTERLINE OF STRUCTURAL GRIDS.

RELATIONSHIP BETWEEN DRAWINGS AND SPECIFICATIONS 4.2 IDENTIFY DISCREPANCIES: NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOUND IN THE DRAWINGS AND SPECIFICATIONS.

4.3 SHOP DRAWINGS: SUBMIT SHOP DRAWINGS, SAMPLES AND PRODUCT DATA TO THE ARCHITECT FOR REVIEW AND APPROVAL OF MATERIALS, FINISHES AND

4.4 SUBSTITUTIONS: MATERIAL OR EQUIPMENT SUBSTITUTIONS ARE NOT ALLOWED UNLESS APPROVED BY THE ARCHITECT.

5. MEANS AND METHODS: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, SEQUENCE OF CONSTRUCTION AND COORDINATION OF WORK; INCLUDING ANY INSTALLATION OF FIXTURES, FURNISHINGS AND EQUIPMENT BY OWNER'S VENDORS. SUBMIT PROPOSED CONSTRUCTION SCHEDULE AND ALL REVISIONS TO THE ARCHITECT AND OWNER.

6. AS-BUILT DRAWINGS: MAINTAIN UP-TO-DATE CONSTRUCTION DRAWINGS ON THE JOB SITE AT ALL TIMES, SUBMIT TWO (2) SETS OF MARKED-UP RECORD DRAWINGS TO THE ARCHITECT UPON COMPLETION OF THE WORK AND OCCUPANCY OF THE PROJECT.

## **Changes to Prototype**

**Roof Screening** Brick Dumpster Enclosure 4 Sided Architecture

## Sheet Index (69 Sheets)

#### **GENERAL** (2 sheets)

COVER SHEET, INDEX, & CONTACT INFORMATION PROJECT DATA, CODES, & ZONING INFORMATION

AL-201 GASOLINE ISLAND CANOPY ELEVATIONS

AL-401 DUMPSTER ENCLOSURE AL-501 CANOPY COLUMN BASE DETAILS AL-601 SIGNAGE SCHEDULE, PYLON SIGN ELEVATIONS/DETAILS

WALL BACKING PLAN

FLOOR PLAN

REFLECTED CEILING PLAN ROOF EQUIPMENT PLAN

ROOF CURB PLAN EXTERIOR ELEVATIONS

EXTERIOR ELEVATIONS A-202 A-301 WALL SECTIONS

A-302 WALL SECTIONS
A-303 WALL SECTIONS

INTERIOR ELEVATIONS

EXTERIOR SHELL DETAILS MISCELLANEOUS DETAILS

DOOR, WINDOW & ROOM FINISH SCHEDULES CERAMIC TILE FLOORING PLAN

AQ-101 EQUIPMENT PLAN AQ-401 KITCHEN WALL INTERIOR ELEVATION

#### STRUCTURAL (8 sheets)

19367 S1.1 GASOLINE FRAMING & FOUNDATION PLAN 19367 S1.2 GASOLINE CANOPY ELEVATIONS 19367 S1.3 GASOLINE TYPICAL CONSTRUCTION DETAILS & NOTES

GENERAL STRUCTURAL NOTES & REQUIREMENTS FOOTING AND FOUNDATION PLAN

ROOF TRUSS PLAN

FRONT WALL FRAMING & DETAILS FOUNDATION & CONCRETE DETAILS

#### **PLUMBING** (5 sheets)

SANITARY PLUMBING PLAN SUPPLY PLUMBING PLAN

PLUMBING DETAILS & SCHEDULE

SANITARY PLUMBING RISER DIAGRAM P-701 SUPPLY PLUMBING RISER DIAGRAM

#### **MECHANICAL** (5 sheets)

MECHANICAL PLAN

EXHAUST HOOD DETAILS EXHAUST HOOD DETAILS

EXHAUST HOOD DETAILS MECHANICAL CONTROL WIRING

## **ELECTRICAL** (12 sheets)

ELECTRICAL POWER PLAN

ELECTRICAL LIGHTING PLAN UNDERGROUND CONDUIT PLAN

SALES COUNTER ENLARGED PLAN & DETAILS

ELECTRICAL PANEL DETAILS AND DIAGRAMS ELECTRICAL EQUIPMENT DETAILS

PANEL SCHEDULES & SERVICE DETAILS ELECTRICAL SCHEDULES & SCHEMATICS E-602

MANUFACTURER EXTERIOR LIGHTING CUT SHEETS MANUFACTURER INTERIOR LIGHTING CUT SHEETS

MANUFACTURER INTERIOR LIGHTING CUT SHEETS MANUFACTURER CANOPY LIGHTING CUT SHEETS

## **EQUIPMENT** (11 sheets)

QR-101 REFRIGERATION EQUIPMENT PLAN

QR-401 REFRIGERATION WALK-INS INTERIOR ELEVATIONS

QR-501 REFRIGERATION DETAILS AND SCHEDULES QR-601 REFRIGERATION WIRING SCHEMATIC

QR-602 REFRIGERATION WIRING SCHEMATIC

QF-101 CANOPY AND FUEL PIPING LAYOUT PLANS QF-201 FUEL PUMP ISLAND DETAILS

QF-301 PETROLEUM TANK SECTIONS AND DETAILS

QF-601 PETROLEUM WIRING DIAGRAM QF-602 PETROLEUM WIRING DIAGRAM

#### QF-603 PETROLEUM WIRING DIAGRAM **TELECOMMUNICATIONS** (4 sheets)

T-601 SECURITY WIRING SCHEMATIC & DETAILS

SECURITY SYSTEM WIRING SCHEMATIC COMMUNICATIONS WIRING SCHEMATIC & DETAILS T-103 MUSIC PLAN

# CASEY'S GENERAL STORE

# LEE'S SUMMIT, MO NWC ARBORIDGE & HWY 150



## **Project Team**

Casey's General Store Construction Division One Convenience Boulevard PO Box 3001 Ankeny, IA 50021 Contact: Shannon Gerard Email: shannon.gerard@caseys.com Voice: 515.381.5732

## **ARCHITECT**

**The Schemmer Associates** 1044 N. 115th Street, Suite 300 Omaha, NE 68154 Contact: Justin Nelson Email: Jnelson@schemmer.com Voice: 402.493.4800, Fax: 402.493.7951

## **CIVIL ENGINEE**

**SBB Engineering LLC** 101 South Kansas Avenue Topeka, KS 66603 Contact: Jeff Laubach Email: Jeff.Laubach@sbbeng.com

## STRUCTURAL ENGINEER **The Schemmer Associates**

1044 N. 115th Street, Suite 300 Omaha, NE 68154 Contact: Kevin Wenninghoff Email: kwenninghoff@schemmer.com Voice: 402.493.4800, Fax: 402.493.7951

## **MECHANICAL/PLUMBING ENGINEER**

The Schemmer Associates 1044 N. 115th Street, Suite 300 Omaha, NE 68154 Contact: Kyle Wengle Email: kwengel@schemmer.com

## **ELECTRICAL ENGINEER**

Voice: 402.493.4800, Fax: 402.493.7951

The Schemmer Associates **Locator Map - Lee's Summit, MO** 1044 N. 115th Street, Suite 300 Omaha, NE 68154 Contact: James Minturn Email: jminturn@schemmer.com Voice: 402.493.4800, Fax: 402.493.7951

## **Legal Description**

in Lee's Summit, Jackson County, Missouri.

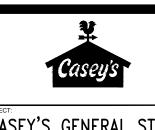
Lot 1, Arborwalk West Addition, a subdivision

Casey's General **Store Site** 





Not all roads shown.



CASEY'S GENERAL STORE 0 10/18/2023 MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO CONTACT INFO 2023 - U4 - V.01 07164.057

G-001

COVER

SHEET INDEX &

## **CPTED Requirements**

**Section 9.210. Convenience Store** 

A. Lighting requirements - light levels shall be in accordance with the following

1. Indoor-lobby - Light levels of sufficient intensity to provide for high resolution video data recording from the digital video surveillance cameras in accordance with the camera manufacturer's specifications 2. Outdoor - Minimum lighting levels of 5 footcandles shall be maintained at the

stores entrance or shall be sufficiently lit to provide high resolution video data recording of outside activity with 50 feet of the store entrance. 3. Pump Islands - Under-canopy minimum lighting levels of 10.0 footcandles with a maximum of 30 footcandles shall be maintained at each pumping stations.

1. To maintain view of cash register 2. To maintain view of all public and/or employee entrances into building/tenant

3. To maintain view of customers leaving via a door mounted pin hole camera, to be positioned at a height of between 4 and 5 feet from the bottom of the door.

4. Capable of providing a minimum storage of 30 days of video surveillance data. Alarm system required.

Video surveillance camera(s), two-color digital high definition, required:

1. Alarm system shall be monitored off-site. 2. Silent panic alarm shall be provided at each register

3. Employees shall be provided with a remote alarm to wear on their person. D. Automatic door lock required. An automatic door lock capable of being locked

from the cash transaction counter shall be provided. E. Visibility maintained. 1. Unobstructed line of sight shall be maintained at all times from the cash register

2. Window areas shall be free from posters, flyers and other such visibility blockers 3. Displays set up in front of the window area, inside or outside, shall not inhibit the

view from the front counter or cash transaction area. 4. The floor area at the cash register shall be elevated a minimum of 6" above floor grade to assist employee surveillance throughout the store. Drop Safes, bolted to floor shall be required.

Height strips shall be required at each public entrance in direct view of employees. "No Loitering/trespass" signs shall be posted at the front entry to the building. Annual review required.

1. An annual review of security measures shall be performed by each establishment with assistance from the Police Department 2. In the event of a robbery, the establishment where the robbery occurred shall, within 15 days of the event, schedule a review of security measures with the Police Department to determine steps to be taken to help deter additional robberies including, but not limited to, adding surveillance cameras. adding new lighting or increase the amount of existing lighting, requiring a minimum of two employees on a given shift, ect.

3. In the event of an additional robbery where the Police Department's recommendations have not been implemented from a previous robbery, grounds may exist for revocation of the business license.

# 531 sf 1<u>/AL-401</u>

SOUTH STREET

# Diagramatic Code Plan & Site Layout 1/16"=1'-0"

## **Code Plan Legend Code Plan Keyed Notes**

Area **A** 1,000 sf EXIT

Exit Width > 68" | 340 Cocupant Load

**USE FUNCTION: GRAPHIC REPRESENTATION** OF FLOOR AREA FUNCTIONS; SEE CODE ANALYSIS, THIS SHEET FOR ADDITIONAL INFORMATION

**BUILDING EXIT: IDENTIFICATION OF BUILDING** EXITS, WITH ASSIGNED EXIT WIDTH AND OCCUPANT CAPACITY

TRAVEL PATH: GRAPHIC REPRESENTATION OF PATH OF TRAVEL AS REQUIRED BY CODES; SEE KEYED PLAN NOTE

**PARKING: IDENTIFICATION OF AVAILABLE** PARKING SPACES

PROPERTY LINE

MAXIMUM LENGTH OF TRAVEL TO EXITS: 65' (200' ALLOWABLE).

SEPARATION DISTANCE OF EXITS: 52'-10" (BUILDING DIAGONAL, 86'-7")

FIRE SEPARATION DISTANCE: ALL PORTIONS OF EXTERIOR OF BUILDING ARE GREATER THAN 10' FROM PROPERTY LINE AND THEREFORE ARE NOT REQUIRED TO BE RATED CONSTRUCTION.

4 FIRE EXTINGUISHER: 4-A:80BC INSTALLED NEAR FRONT EXIT

(5) **KITCHEN FIRE EXTINGUISHER**: TYPE 'K' LOCATED WITHIN 30' OF HOOD

(6) VAN ACCESSIBLE PARKING SPACE: WITH POST SIGN AND NO-PARKING ACCESS AISLE, SURFACE SLOPES SHALL NOT EXCEED 1:50 (2%) IN ALL

(7) **LOADING BERTH:** 14' x 54', SUBJECT TO CHANGE

**EMERGENCY FUEL SHUTOFF: POST MOUNTED SHUTOFF BUTTON WITH** SIGN STATING "EMERGENCY FUEL SHUTOFF" LOCATED ALONG CURB LINE (8A); A SECONDARY SHUTOFF LOCATED INSIDE AT THE SALES COUNTER FOR THE CONVENIENCE OF STAFF (8B)

(9) TACTILE SIGN: @ 48" A.F.F. TO BRAILLE ON LATCH SIDE OF DOOR

## **Project Data**

## JURISDICTION:

LEE'S SUMMIT, MO 2018 International Building Code 2018 International Plumbing Code

2018 International Mechanical Code 2018 International Fuel Gas Code 2018 International Fire Code

2017 National Electrical Code ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities

## **Zoning Information**

REQUIRED HANDICAP PARKING [ADAAG]

OFF STREET PARKING AND LOADING Marked General Parking Unmarked Gas Pump Parking TOTAL PARKING SPACES

1: 25 Required Parking Spaces (Van Accessible) PROVIDED HANDICAP PARKING =1 ( VAN ACCESSIBLE)

LOADING BERTH 1 Provided (14'x54'), Subject to change

SIGNAGE REQUIREMENTS

See Sheet AL-601 For project signage schedule and drawings.

#### DISABLED SIGN WITH REQUIRED UNIVERSAL SYMBOL OF ACCESSIBILITY, INCLUDE APPROPRIATE WORDING TO CLEARLY INDICATING THAT THE SPACE IS RESERVED FOR THE EXCLUSIVE USE OF VEHICLES WHICH DISPLAY A DISTINGUISHING LICENSE PLATE OR SIGN INDICATING THIS SPACE IS A 'VAN ACCESSIBLE' SPACE IOWA DOES NOT REQUIRE THAT A SIGN BE POSTED INDICATING THE FINE; HOWEVER, IF SUCH A SIGN IS POSTED, IT SHOULD NOTE THE FINE AS \$200. VERIFY HEIGHT OF H.C. SIGN FROM TOP OF GRADE WITH LOCAL AUTHORITY.

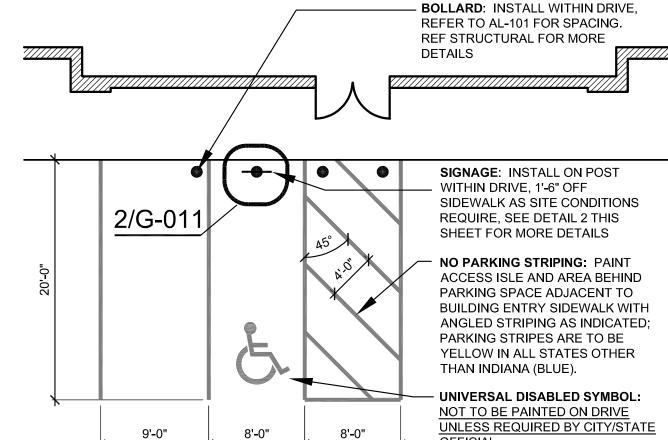
# Disabled Parking Signage

## **Code Plan General Notes**

1. RELATED SHEETS: FOR ADDITIONAL INFORMATION NOT DIRECTLY REFERENCED, SEE THE FOLLOWING SHEETS:

> G-001 FOR GENERAL PROJECT NOTES AL-101 FOR SITE WORK A-101 FOR BUILDING ADDITION AND REMODEL FLOOR PLAN AQ-101 FOR EQUIPMENT FLOOR PLAN LAYOUT

2. DO NOT USE THIS SHEET FOR SITE LAYOUT: THE SITE AND BUILDING PLAN REPRESENTED ON THIS SHEET IS INTENDED AS A DIAGRAMMATIC REPRESENTATION OF CODE AND ZONING RELATED ISSUES ONLY, ALL SPECIFIC LAYOUT AND CONSTRUCTION INFORMATION IS FOUND ON THE SITE PLAN AND BUILDING DRAWINGS





## **Code Information**

Occupancy Type (Section 309)

Group M - Mercantile Retail Sales & Fuel Dispensing

#### **Construction Type** (Section 602.5)

**Type V, B** (Non-rated) Construction in which the structural elements, exterior and interior walls are of any materials permitted by the code.

#### **Building Height & Area** (*Table 503*)

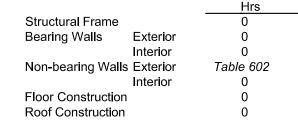
Based on above referenced occupancy type and construction type.

	ALLOWABLE	ACTUAL	
Height (Stories / Feet):	1 / 40'	1 / 25'	
Area (Group M):	9,000 sf	4,206 sf	

## Incidental Uses (Section 508.2, Table 508.4)

No incidental use areas are present within building as defined in Table 508.4 that require separation.

#### Fire Resistive Requirements (Table 601)



## Exterior Walls (Table 602)

Where exterior wall fire separation distance to the property line is less than 10', but more than 5' 1-Hour rated construction is required. If Less than 5' 2-Hour rated construction is required. All sides of building are more than 10' offset from property line. No rated construction required. (Plan Note 3)

#### Allowable Area of Openings (Section 705.8/Table 705.8) The maximum area of openings allowed in rated exterior construction is

determined as a percentage of total wall area (table 705.8). When an exterior wall is within 3' of property line no openings are allowed, from 3' to 5' only protected openings are allowed and from 5' to 10' both protected and unprotected openings are allowed. No exterior walls require rated construction, therefore no limitations are imposed on openings. (Plan Note 3)

#### Occupant Load (Chapter 10)

The Occupant Load is determined by first sub-dividing the plan layout into different 'Function Types' (per Table 1004.1.2) then dividing each by the assigned SF/Occupant to obtain the Total Occupant Load for exiting. The Function Areas assigned in the table below are graphically represented in the Code Plan on this sheet. (See Code Plan)

TABLE 1004.1.2	Criteria	Area	Load
Area A - Mercantile	30 gross	2,500 sf	75
Area B - Business (Office)	100 gross	39 sf	1
Area C - Kitchen	200 gross	531 sf	3
Area D - Accessory (Back house)	300 gross	1,136 sf	3
TOTALS		4,206 sf	82

#### **Building Exits**

## Egress Width (Section 1005)

Non sprinkled buildings require 0.2" of egress width per occupant. Egress width required, 12.4" for occupant load of 62 persons. Egress width provided, 148" total at three (3) locations. (See Locations on Code Plan)

## Exit Doors (Section 1015, Table 1015.1)

Occupant load greater than 50 requires 2 exits separated by half the maximum diagonal distance of the building. Maximum diagonal, 86'-7", Exit Separation, 52'-10". (Plan Note 2)

#### Exit Access Travel Distance (Section 1016, Table 1016.2) In non sprinkled buildings the maximum travel distance from any point in the building to an exit is limited to 200'. Maximum distance present 74', See plan this sheet. (Plan Note 1)

## **Plumbing Fixtures** (Chapter 29)

As required for toilet room fixture calculations, the assumed occupancy loads for male and female are 50% of the total occupancy load for the building (per Table

2902.1, IBC).	•	-	- "
	CRITERIA	REQUIRED	PROVIDE
	-	-	_
MENS (31 Occupants)			
Water Closets	1 / 500	1	1
Lavatories	1 / 750	1	2
Urinal		0	1
WOMENS (31 Occupants)			
Water Closets	1 / 500	1	2
Lavatories	1 / 750	1	2
OTHER FIXTURES			
Drinking Fountain		1	0*
Convinc Cink		1	1

\* Water is provided through a dispenser in the fountain drink system at no charge

## Fire Protection (IFC)

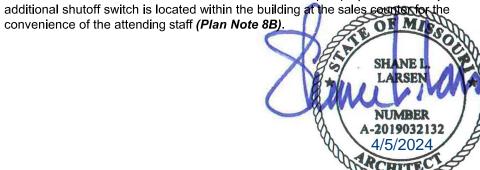
**Portable Fire Extinguishers** (Section 906)

Portable Fire Extinguishers shall be installed in accordance with NFPA 10 and meet the minimum coverage and travel distance requirements:

General: 4-A:80BC, 11,250sf Coverage / 75' Travel Distance (*Plan Note 4*) **Kitchen**: Type 'K', within 30' of Hood (*Plan Note 5*)

## **Emergency Fuel Shutoff** (Section 2303.2)

A fuel shutoff switch is located within 100' of the fuel pumps (*Plan Note 8A*); an convenience of the attending staff (Plan Note 8B).





SLL

## SCHEMMER 1044 North 115th Street, Suite 300

10/18/2023 CASEY'S GENERAL STORE **GENERAL** MO-150 & ARBORIDGE DR <u>/o.1\</u> 04/05/2024 PROJECT DATA LEE'S SUMMIT, MO 2023 - U4 - V.01 CODE DATA 07164.057

G-011

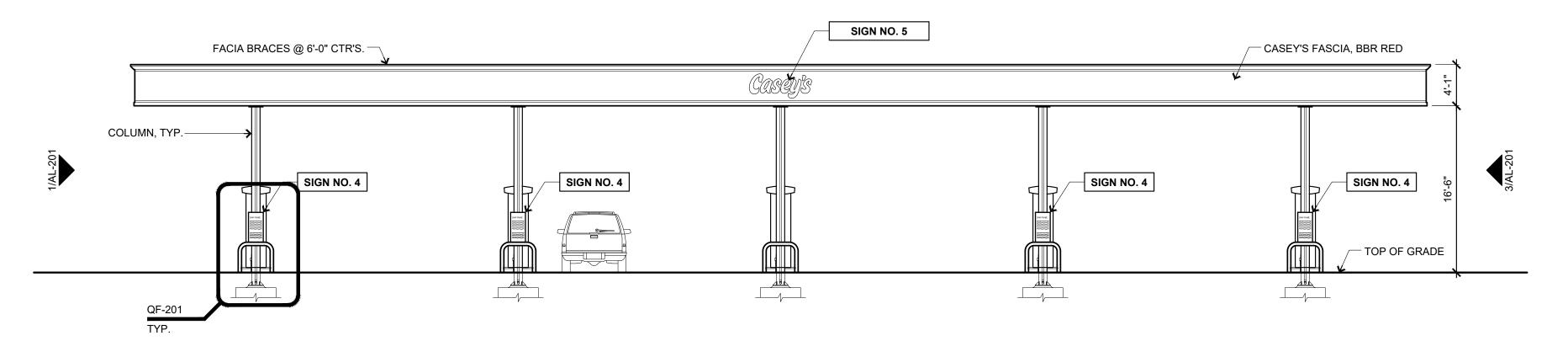
## \*\*VERIFY ALL SIGNAGE WITH SIGN PERMITS\*\*

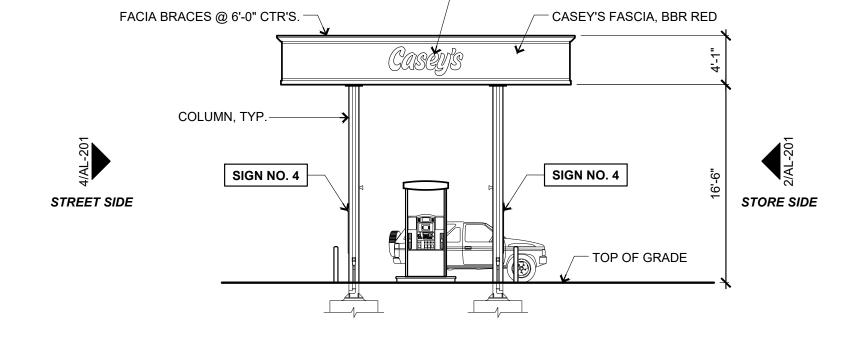
Canopy										
					Dimensions					
Sign #	Sign	Туре	Location	Illumination	Bottom	Тор	Width	Height	Area Ft <sup>2</sup>	Quantity
5	House Logo	Surface	Canopy Side	Internal	17' 3-1/2"	21' 3-1/2"	5' 8-7/8"	4' 0''	17.49	2
5	House Logo	Surface	Canopy Front	Internal	17' 3-1/2"	21' 3-1/2"	5' 8-7/8"	4' 0''	17.49	1
4	Snap Frame	Advertising	Canopy Column	N/A	3' 0"	7' 0-1/2"	2' 4"	3' 8"	8.56	8
								Total	120.95	

## **General Notes**

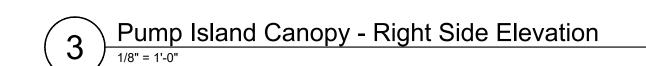
SIGN NO. 5

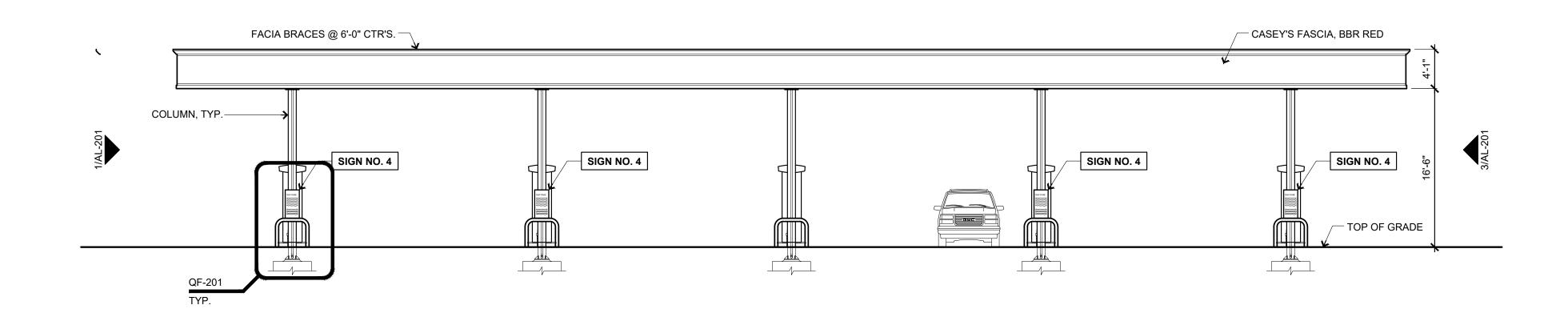
- 1. RELATED SHEETS: FOR ADDITIONAL INFORMATION NOT DIRECTLY REFERENCED, SEE THE FOLLOWING SHEETS:
  - G-001 FOR GENERAL PROJECT NOTES FOR GENERAL SITE PLAN Sign Packet FOR SIGNAGE SCHEDULE AND NOTES
- QF-Series FOR DESIGN AND DETAILS RELATED TO FUELING FACILITY
- 2. GASOLINE ISLAND CANOPY: REVIEW SHOP DRAWINGS PROVIDED BY CANOPY SUPPLIER AND ADVISE CASEY'S CONSTRUCTION MANAGER OF ANY DISCREPANCIES
- 3. EMERGENCY GAS SHUT OFFS: REFER TO SHEETS A-201, AQ-101 & E-101 FOR EMERGENCY SHUT OFF LOCATIONS.

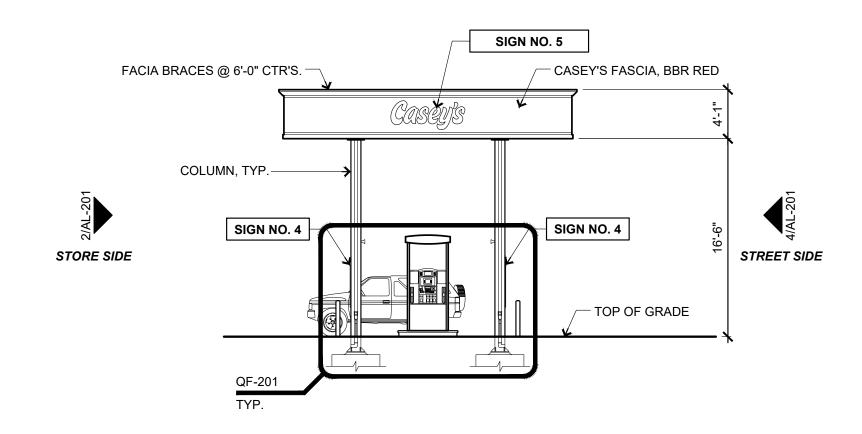


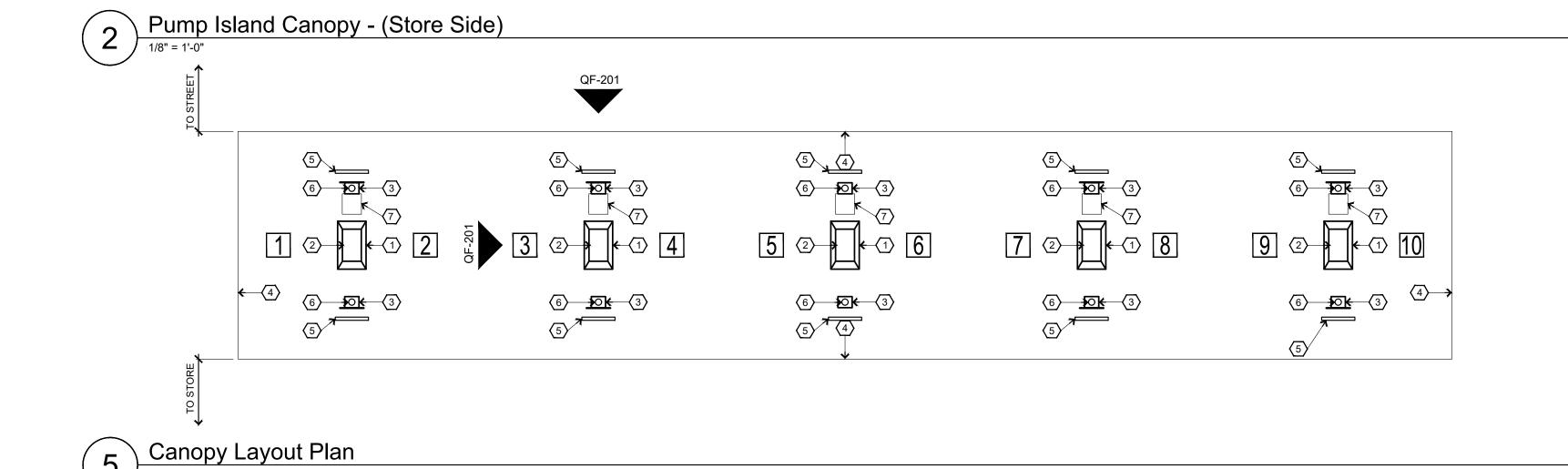


Pump Island Canopy - (Street Side)









Pump Island Canopy - Left Side Elevation

JIM VILMAIN

## **Keyed Canopy Layout Plan Notes**

- 1 FUEL ISLANDS
- 2 FUEL DISPENSERS: SUPPLIED BY OWNER
- (3) CANOPY COLUMN: SUPPLIED BY CANOPY MFG.
- 4 EDGE OF CANOPY: ABOVE
- 5 STEEL GUARD PIPE: SET INTO CONC SLAB AS INDICATED IN DETAIL ELEVATIONS (2 PER ISLAND)
- 6 INTERNAL DOWNSPOUTS: ROUTE THROUGH COLUMNS AND UNDERGROUND TO STORM SEWER OR DETENTION IF APPLICABLE
- 7 TRASH CAN AND WASH BUCKETS
- # PUMP LABELS: MOUNTED ON CANOPY COLUMNS

DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.

Casey's	Ca	sey's	Casey's
One Con	CASEY'S CONS' venience Blvd., P.O. Box		
	STYLE STORE ICK & STONE)	PUBLISHED: 06/18/21 REVISED ON:	GASOLINE ISLAND CANOPY ELEVATIONS
DRAWING INFORMATION: CONSTRUCTION DI DRAWN BY:	VISION CHECKED BY:		AL-201

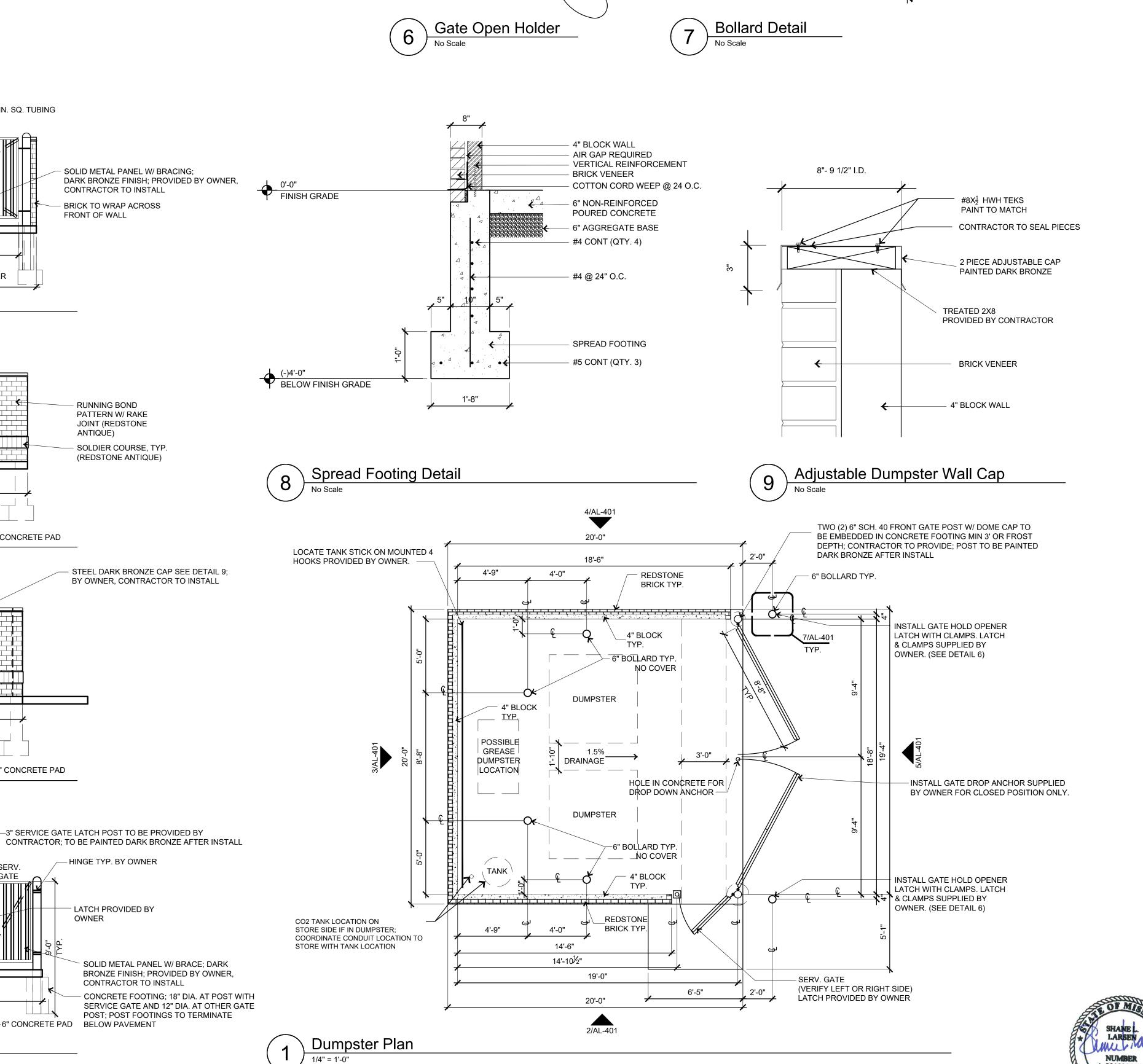
## **General Notes**

1. RELATED SHEETS: FOR ADDITIONAL INFORMATION NOT DIRECTLY REFERENCED, SEE THE FOLLOWING SHEETS:

> G-001 FOR GENERAL PROJECT NOTES AL101 FOR GENERAL SITE PLAN

## **Construction Notes**

- 1) ALL DOMES ON FENCE POSTS ARE TO BE FASTENED SO THAT THEY CAN NOT BE REMOVED.
- 2) VERIFY SCREENING WITH LOCAL AUTHORITY.
- 3) CONTRACTOR TO PRIME ALL 6" BOLLARDS PRIOR TO FINISHED PAINT COAT.
- 4) DUMPSTER ENCLOSURE WALLS WILL BE 4" BLOCK PURCHASED BY CONTRACTOR



6" DIA. STEEL BOLLARD

TRASH CONTAINER

**GATE HOLD OPEN** 

- 2" MIN. SQ. TUBING

— 6" CONCRETE PAD

- 6" CONCRETE PAD

GATE

8'-8" METAL GATE

\_DROP ANCHOR

PROVIDED BY OWNER

SOLID METAL PANEL W/ BRACING;

CONTRACTOR TO INSTALL

BRICK TO WRAP ACROSS

RUNNING BOND

ANTIQUE)

—3" SERVICE GATE LATCH POST TO BE PROVIDED BY

HINGE TYP. BY OWNER

LATCH PROVIDED BY

CONTRACTOR TO INSTALL

OWNER

— 6" CONCRETE PAD BELOW PAVEMENT

PATTERN W/ RAKE JOINT (REDSTONE

- SOLDIER COURSE, TYP.

BY OWNER, CONTRACTOR TO INSTALL

FRONT OF WALL

LATCH PROVIDED BY OWNER

8'-8" METAL GATE

20'-0"

20'-0"

CONC. PAD

20'-0"

Dumpster Enclosure - Elevation

**Dumpster Enclosure - Elevation** 

Dumpster Enclosure - Elevation

Dumpster Enclosure - Elevation

HINGE TYP. BY OWNER -

RUNNING BOND PATTERN -

W/ RAKE JOINT (REDSTONE

NOTE:
ALL DOMES ON FENCE POSTS

ARE TO BE FASTENED SO THAT

SOLDIER COURSE, TYP.

(REDSTONE ANTIQUE)

THEY CAN NOT BE REMOVED.

ANTIQUE)

FIELD PAINT PRIMER

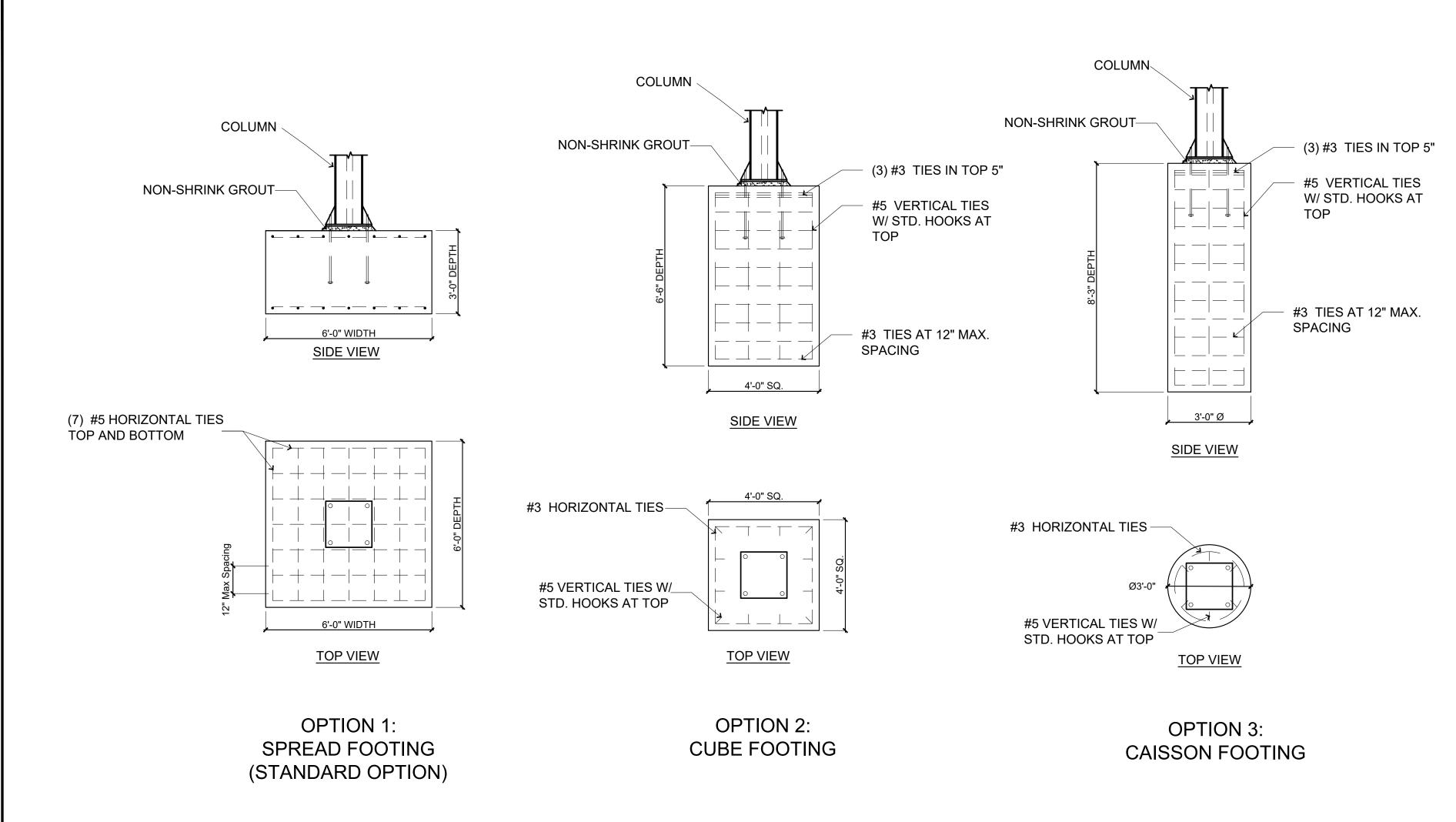
PLASTIC COVER\_

CONC. FILLED -

GRADE (BROWN)

1044 North 115th Street, Suite 300

CASEY'S GENERAL STORE 10/18/2023 DUMPSTER MO-150 & ARBORIDGE DR **ENCLOSURE** LEE'S SUMMIT, MO 2023 - U4 - V.01 07164.057 AL-401 JLN



THIS DETAIL PROVIDED FOR BIDDING PURPOSES ONLY. REFER TO MANUFACTURER DRAWINGS FOR CONSTRUCTION DETAILS SPECIFIC TO THIS SITE.

Canopy Column Footing Options

No Scale

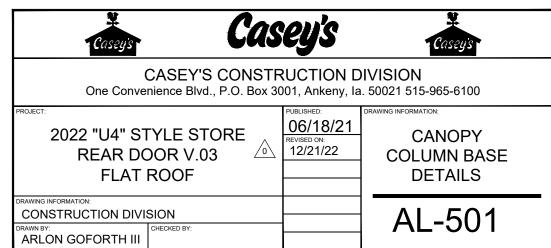
## **General Notes**

- 1. RELATED SHEETS: FOR ADDITIONAL INFORMATION NOT DIRECTLY REFERENCED, SEE THE FOLLOWING SHEETS:
  - G-001 FOR GENERAL PROJECT NOTES
  - AL-101 FOR SITE IMPROVEMENTS A-101 FOR BUILDING PLAN
- 2. DEMOLITION MATERIAL REMOVAL: HAUL-OFF ALL CONSTRUCTION MATERIALS AND WASTE GENERATED BY SELECTED SITE DEMOLITION TO THE APPROPRIATE LANDFILLS AS APPROVED FOR CONSTRUCTION MATERIALS OR BRUSH
- 3. UTILITY COORDINATION: COORDINATE THE ABANDONMENT AND REMOVAL OF ALL UTILITY FEEDS WITH THE LOCAL UTILITY SERVICE PROVIDER

## **Construction Notes**

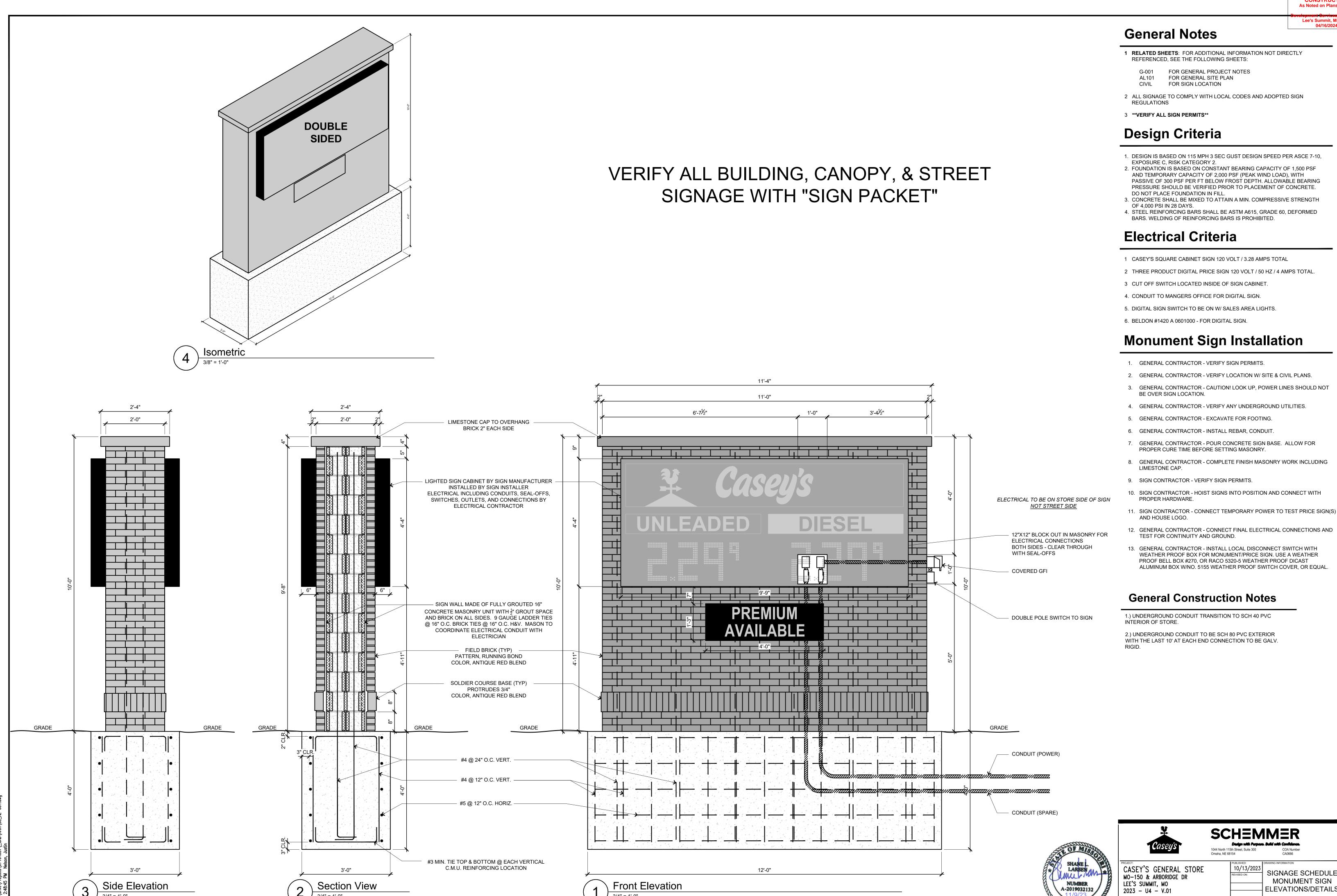
- 1) FOOTING HEIGHT TO BE VERIFIED.
- 2) FOOTINGS TO BE IN ACCORDANCE W/LOCAL BUILDING CODES.
- 3) 1,500 P.S.F. MIN. SOIL BEARING CAPACITY.
- 4) GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING CANOPY FOOTINGS AS REQUIRED.
- 5) VERIFY FOOTING SIZES AND SPECIFICATIONS WITH CANOPY MANUFACTURERS PLAN.
- 6) CONTRACTOR TO ENSURE THAT BOLTS STAY VERTICAL.
- 7) VERIFY ELECTRICAL LOCATION W/CANOPY MANUFACTURER PLANS.
- 8) CLEAN AND GREASE EXPOSED THREADS ON BOLTS.
- 9) BOLT AREA TO BE GRAVEL & WATER FREE BEFORE CANOPY IS INSTALLED.
- 10) CANOPY FOOTING ELEVATION WORKSHEET REQUIRED. FORM IS TO BE COMPLETED BY THE GENERAL CONTRACTOR. REFER TO CANOPY MANUFACTURER PLANS, SEND TO CANOPY COMPANY.

DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.



AL-601

07164.057



Lee's Summit,

Wall Backing Plan for Installation of Equipment and Fixtures

## **General Notes** 1. REFER TO ALL DETAIL PAGES REFERENCED ON THIS PLAN

2. REFER TO SHEET A-601 FOR: FINISH SCHEDULES DOOR SCHEDULES

WINDOW SCHEDULES

REFER TO SHEET A-101 FOR:

#### WALL FRAMING INFORMATION **General Construction Notes**

## FRAMING INSTRUCTIONS:

- 1.1 ALL PERIMETER FRAMED WALLS, 2x6 WD STUDS @ 16" OC, VERIFY HEIGHTS; INSULATED WITH 6"x16" WIDE FRICTION FIT INSULATION, EXCEPT AS DIRECTED BY KEYED NOTES.
- 1.2 FRONT WALL SAME AS ABOVE, EXCEPT 2x6 WD STUDS, SEE STRUCTURAL DRAWINGS FOR FRAMING ELEVATION AND DETAILS. 1.3 ALL INTERIOR FRAMED PARTITION WALLS, 2x4 WD STUDS @ 16" OC, VERIFY HEIGHTS; EXCEPT AS DIRECTED BY KEYED NOTES. 1.4 ALL FRAMING MATERIAL: CONSTRUCTION GRADE OR BETTER. 1.5 USE TREATED (WOLMANIZED) BOTTOM PLATE, WHEREVER MEETS CONCRETE, SEAL TO CONC FLOOR WITH CONSTRUCTION ADHESIVE. 1.6 ALL BACKING/BLOCKING 2x6, FLUSH W/ ROUGH FRAMING; HEIGHTS INDICATED ON PLANS (BK @ xx") ARE FROM FLOOR (AFF) TO CENTER OF 1.7 EXTERIOR NON-COMBUSTIBLE WALL. 2x6, 18 GAGE STEEL STUDS.
- 2. SEAL ALL CABINETS AND SALES COUNTER TO FLOOR.
- 3. DO NOT FRAME UP UTILITY ROOM WALLS UNTIL THE COMPRESSOR RACK HAS BEEN INSTALLED BY H.V.A.C.
- 4. H.V.A.C. EQUIPMENT INSTALLED BY CASEY'S PROVIDED INSTALLERS.

ENTIRE END WALL, USING STEEL TOP AND BOTTOM PLATES.

5. BACKING IN THESE AREAS WILL CONSIST OF 1/2" CDX PLYWOOD ENTIRE LENGTH OF WALL. PLYWOOD TO RUN FROM F.F. TO CEILING HEIGHT.

## **Keyed Construction Notes**

## **DIVISION 1 - GENERAL INFORMATION**

- COORDINATE PARTITION AND HEADER CONSTRUCTION WITH COOLER / FREEZER PACKAGE.
- (109) RECESSED CASEWORK SLAT WALL

## **DIVISION 6 - WOOD, PLASTICS, COMPOSTIES**

- 601 OVERHEAD PARTITION HEADERS: NOMINAL 2x4 FRAMING, ALIGN WITH ADJACENT PARTITIONS OR AS DIMENSIONED, U.N.O. 7'-5" A.F.F. LAZER LEVEL ALL HEADER HEIGHTS
- (602) WALL BRACES ON COOLER / FREEZER: EXTEND ABOVE ADJACENT CEILING; ADD SUPPORT AS NEEDED, BRACE TO ROOF PURLINS AND GLUE TO ROOF PURLINS AND CABINET 'DO NOT' NAIL INTO CABINET. INSTALL KNEE WALL FRAMING FLUSH WITH FRONT EDGE OF COOLER/FREEZER BOXES.

## **DIVISION 6 - WOOD, PLASTICS, COMPOSTIES CONT.**

- 604 CASEWORK UNITS: SUPPLIED BY CASEY'S, INSTALLED BY CONTRACTOR, SEAL TO
- SEE STRUCTURAL DRAWINGS FOR FRAMING ELEVATION AND DETAILS, FRONT WALL
- NON-COMBUSTIBLE WALL: WITHIN LIMITS INDICATED, 2x6 18 GAUGE STEEL STUDS @ 16" O.C.; INSTALL 16" FRICTION FIT INSULATION AND SUPPORT WITH 1/2" METAL BANDING HORIZONTAL @ 12" O.C. ON INTERIOR SIDE OF WALL; FINISH WITH STAINLESS STEEL
- PANELS. (REFER TO SHEET AQ-401 FOR BACKING LOCATION FOR STAINLESS STEEL PANELS)
- (608) OFFICE COUNTER AND WALL SHELF, GRAPHITE TWILL COLOR; SEE A-402, DETAIL 3. 609 ALL WOOD BLOCKING TO BE 2 x 6 INSTALLED HORIZONTALLY U.N.O., HEIGHT FROM FINISH FLOOR INDICATED NEXT TO NOTE. COORDINATE INSTALLATION OF BLOCKING
- RESTROOM PARTITION BACKING. ENTIRE 16" STUD CAVITY IS TO BE SHEATHED WITH
- RECESSED BRACING & 1/2" PLYWOOD. (609B) 3/4" PLYWOOD BACKING FOR MONITORS.
- SECURITY LIGHT BRACKET (BACKING NOT REQUIRED). (INSTALL BRACKET TO SHEETING

WITH EQUIPMENT. FIRE RESISTANT BLOCKING TO BE USED IN KITCHEN HOOD AREA.

- PRIOR TO APPLYING BRICK) REF: A-201 & A-202 (609D) ON-DEMAND GAS WATER HEATER BACKING. STUD CAVITIES TO BE SHEATHED WITH RECESSED BRACING & 1/2" PLYWOOD. (TOTAL OF 24" OUT FROM CORNER)
- EXTERIOR SIGNAGE: PROVIDE 2x6 WOOD BLOCKING BEHIND SHEATHING FOR INSTALLATION OF ILLUMINATED SIGNAGE, COORDINATE WITH SIGNAGE SHOP DRAWINGS
- (609F) LADDER BRACKET: PROVIDE 2X6 WOOD BLOCKING BEHIND SHEATHING FOR INSTALLATION OF LADDER BRACKET.
- 2X6 BRACING ON EDGE. LOCATE AT TOP OF WALL HEIGHT TO BRACE RESTROOM DOOR

## **DIVISION 9 - FINISHES**

- (901) WALL COVERING INSTALLED PRIOR TO ELECTRICAL PANEL
- 902 INSTALL FLOOR BASE IN UTILITY ROOM PRIOR TO INSTALLATION OF HVAC
- 903 CUT FRP WALL COVERINGS TO FIT TIGHT TO STAINLESS STEEL PANELS AT KITCHEN EXHAUST HOOD

## **DIVISION 10 - SPECIALTIES**

- RECESSED ELECTRONIC HANDS-FREE TOWEL DISPENSER: SUPPLIED BY OWNER, ROUGH OPENING 10 5/8" W. x 15 1/8" H. x 4" D\_SET 42" A.F.F.
- HIGH SPEED TOUCH FREE SENSOR HAND DRYER: RECESSED, SET 3'-8"
- DOUBLE TOILET PAPER HOLDER: SURFACE MOUNT.
- (1005) BABY CHANGING STATION: HORIZONTAL WALL-MOUNTED. MOUNT ACCORDING TO MANUFACTURER'S SPECIFICATIONS. PROVIDE SUPPORT BLOCKING IN WALL @ 3'-0" & 3'-9".

## **DIVISION 11 - EQUIPMENT**

(1101) COOLER / FREEZER UNITS: SUPPLIED AND INSTALLED BY OTHERS, DOORS INCLUDED. (SET 2" OFF FRAMING WALL) GLASS DOORS AND FRAMES INSTALLED BY GENERAL CONTRACTORS

## **DIVISION 21 - FIRE SUPPRESSION**

(2101) EXHAUST HOOD FIRE SYSTEM @ 45" A.F.F.

## **DIVISION 23 - HEATING, VENTILATING & AIR-CONDITIONING**

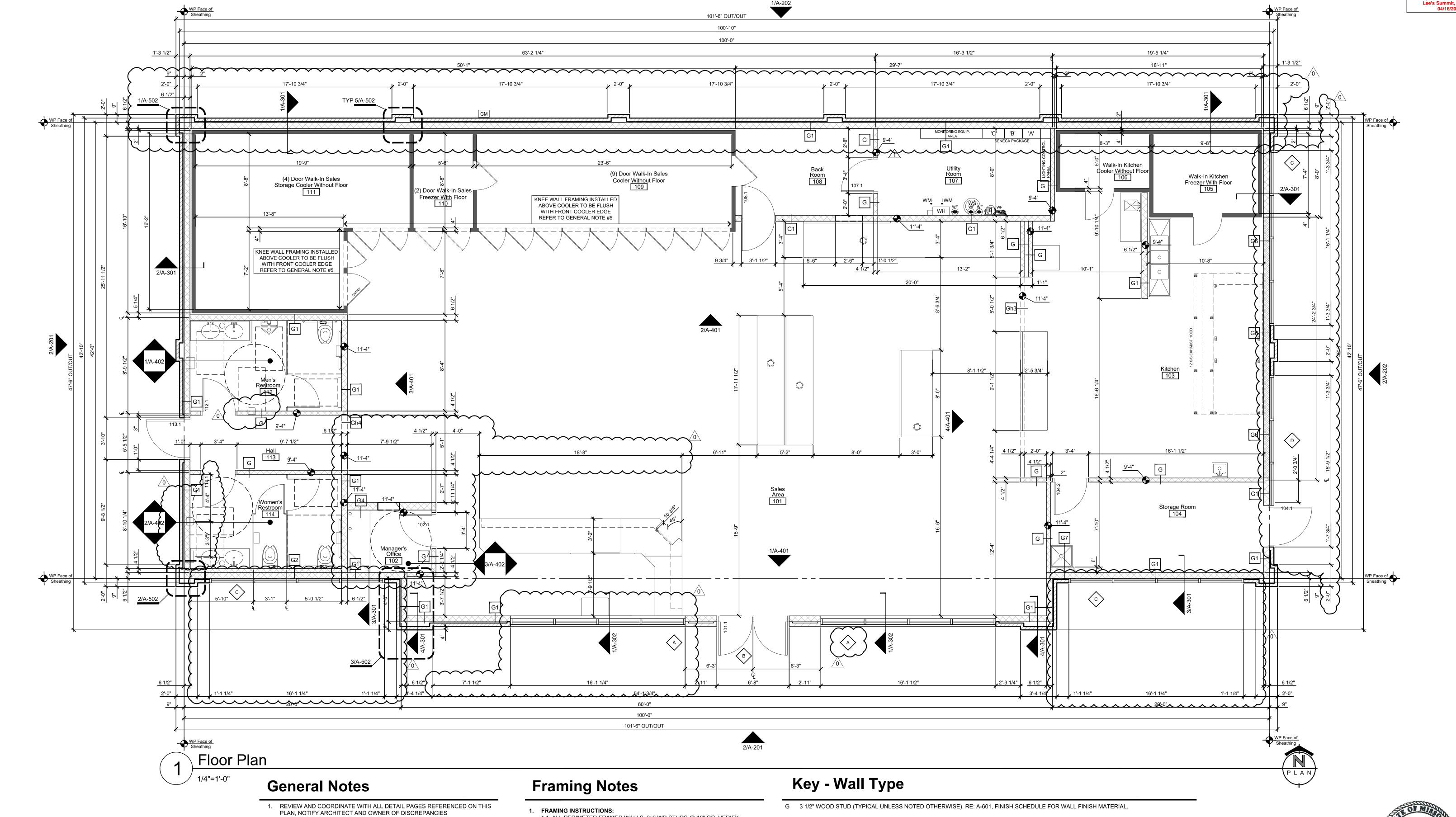
- 2301) 12' STAINLESS STEEL KITCHEN EXHAUST HOOD, SEE MECHANICAL
- 2302 NOT USED
- (2303) HANDRAILS: WHERE REQUIRED BY CODE (MINNESOTA).

## **DIVISION 25 - INTEGRATED AUTOMATION**

- (2501) RECESSED VEEDER ROOT TANK MONITOR SYSTEM.
- **DIVISION 26 ELECTRICAL**
- (2601) **ELECTRICAL SERVICE ENTRANCE**: COORDINATE ELECTRICAL DRAWINGS.
- (2602) **ELECTRICAL PANELS:** SEE ELECTRICAL DRAWINGS.
- **DIVISION 27 COMMUNICATIONS** PHONE: INSTALL PHONE JACK IN CASEWORK @ FRONT COUNTER AND IN WALL @ MANAGER'S OFFICE
- **DIVISION 28 ELECTRONIC SAFETY & SECURITY** (2801) REMOTE PULL: SEE DETAIL SHEET AQ-101



1044 North 115th Street, Suite 300 10/13/2023 CASEY'S GENERAL STORE WALL BACKING MO-150 & ARBORIDGE DR PLAN LEE'S SUMMIT, MO 2023 - U4 - V.01 07164.057 A-100



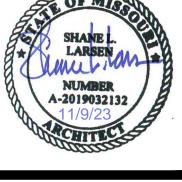
- 2. **RELATED DRAWING SHEETS**: REFER TO THE FOLLOWING: A-100: WALL BLOCKING PLAN AND NOTES
- A-601: DOOR, WINDOW & FINISH SCHEDULES AND NOTES

P-102: COORDINATE WITH UNDER SLAB PLUMBING WORK

- A-701: FLOOR FINISH PLAN
- AQ-101: EQUIPMENT AND FIXTURE INSTALLATION PLAN AND SCHEDULE
- S-101: FOOTINGS AND FOUNDATIONS PLAN S-102: FIRST FLOOR BEARING WALL AND SHEAR WALL FRAMING P-101: COORDINATE WITH UNDER SLAB SANITARY WORK
- 3. WORKING POINT: THE WORKING POINT (WP) INDICATED ON THE DRAWINGS IS RELATIVE TO THE FACE OF SHEATHING ON THE EXTERIOR WALL AND IS A COMMON POINT OF REFERENCE WHERE EVER USED IN THESE DRAWINGS
- 4. INDICATES WALL AND HEADER HEIGHTS
- 5. KNEE WALL FRAMING ABOVE COOLER / FREEZER TO BE INSTALLED FLUSH WITH FRONT FACE OF COOLER / FREEZER.
- WINDOW FRAME ELEVATIONS REFER TO PLAN SHEET A-601, DETAIL 1
- DOOR TYPES REFER TO PLAN SHEET A-601, DETAIL 2

- 1.1 ALL PERIMETER FRAMED WALLS, 2x6 WD STUDS @ 16" OC, VERIFY
- HEIGHTS; INSULATED WITH 6"x16" WIDE FRICTION FIT INSULATION, EXCEPT AS DIRECTED BY KEYED NOTES. 1.2 FRONT WALL SAME AS ABOVE, EXCEPT 2x6 WD STUDS, SEE
- STRUCTURAL DRAWINGS FOR FRAMING ELEVATION AND DETAILS. 1.3 ALL INTERIOR FRAMED PARTITION WALLS, 2x4 WD STUDS @ 16" OC, VERIFY HEIGHTS; EXCEPT AS DIRECTED BY KEYED NOTES. 1.4 ALL FRAMING MATERIAL: CONSTRUCTION GRADE OR BETTER 1.5 USE TREATED (WOLMANIZED) BOTTOM PLATE, WHEREVER MEETS CONCRETE, SEAL TO CONC FLOOR WITH CONSTRUCTION ADHESIVE 1.6 ALL BACKING/BLOCKING 2x6, FLUSH W/ ROUGH FRAMING; HEIGHTS INDICATED ON PLANS (BK @ xx") ARE FROM FLOOR (AFF) CENTER OF
- 1.7 EXTERIOR NON-COMBUSTIBLE WALL. 2x6, 18 GAGE STEEL STUDS. ENTIRE END WALL, USING STEEL TOP AND BOTTOM PLATES.
- 2. SEAL ALL CABINETS AND SALES COUNTER TO FLOOR. 3. H.V.A.C. EQUIPMENT INSTALLED BY CASEY'S PROVIDED INSTALLERS.
- 4. ALL EXTERIOR WALLS ARE SUPPLIED BY OWNER
- 5. ALL INTERIOR WALL MATERIALS SUPPLIED WITH BUILDING PACKAGE TO BE BUILT BY CONTRACTOR ON-SITE.

- G1 5 1/2" WOOD STUD. RE: A-601, FINISH SCHEDULE FOR WALL FINISH MATERIAL.
- G2 3 1/2" WOOD STUD FUR OUT OF EXTERIOR WALL FOR PLUMBING.
- G3 5 1/2" METAL STUD. RE: A-601, FINISH SCHEDULE FOR WALL FINISH MATERIAL G4 7 1/4" WOOD STUD. RE: A-601, FINISH SCHEDULE FOR WALL FINISH MATERIAL.
- G5 3 1/2" METAL STUD HOOD WALL FRAMED TO BOTTOM OF TRUSS. RE; A-601, FINISH SCHEDULE FOR WALL FINISH MATERIALS.
- G6 5-1/2" NON-COMBUSTIBLE METAL STUD WALL FRAMED TO BOTTOM OF TRUSS. RE: A-601, FINISH SCHEDULE FOR WALL FINISH MATERIAL.
- G7 5 1/2" WOOD STUD. FUR OUT OF EXTERIOR WALL FOR PLUMBING.
- Gh1 5 1/2" WOOD STUD. FINISH HEIGHT = 5'-2" A.F.F. CORNER BEAD ALL OUTSIDE CORNERS. WOOD CAP AND COVE ON TOP OF WALL.
- Gh2 3 1/2" WOOD STUD SHEAR WALL. SHEET BOTH SIDES WITH 1/2" OSB.
- Gh3 4"x2" WOOD FLOOR TYPE TRUSS BEAM SUPPLIED BY STRUCTURAL COMPONENT SYSTEMS. CONTRACTOR TO SHEET SALES AREA SIDE WITH 3/4" PLYWOOD BEFORE FINISHING. RE: A-601, FINISH SCHEDULE FOR WALL FINISH MATERIAL. RE: A-401, DETAIL 4, INTERIOR ELEVATIONS.
- Gh4 3 1/2" WOOD STUD (FRAMING HEIGHT 7'-5") BULKHEAD BUILT ACROSS OPENINGS FOR GRAPHICS ATTACHMENT. FACE BOTH SIDES, REFER TO FINISH SCHEDULE (A-601) FOR FACE MATERIAL AND FINISH.



A-101

1044 North 115th Street, Suite 300 CASEY'S GENERAL STORE 10/13/2023 MO-150 & ARBORIDGE DR **FLOOR** LEE'S SUMMIT, MO PLAN 2023 - U4 - V.01

07164.057

JLN

#### Lee's Summit, Missouri 04/16/2024

## **CEILING FINISHES SCHEDULE**

ROOM	HEIGHT	2' x 2' CEILING PANELS W/1HR. FIRE RAT	TED GRID (WHITE)	APPROVED	REMARKS	AND	CO	MMENTS	
SALES AREA, 101	10'-10"	U.S.G. NO. 2115 WHITE	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 10)						
MANAGERS OFFICE, 102	8'-6"	U.S.G. NO. 2115 WHITE	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 10)						
KITCHEN, 103	9'-2"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 5)	USDA					
STORAGE, 104	9'-2"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 5)	USDA					
WALK-IN FREEZER, 105					NO CEILING HEIGH	IT IN WALK	K-IN FRI	EEZER	
WALK-IN COOLER, 106					NO CEILING HEIGH	IT IN WALK	K-IN CO	OLER	
UTILITY ROOM, 107	9'-2"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)							
BACK ROOM, 108	9'-2"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)							
SALES AREA COOLER, 109					NO CEILING HEIGH	IT IN WALK	K-IN FRI	EEZER	
SALES AREA FREEZER, 110					NO CEILING HEIGH	IT IN WALK	K-IN FRI	EEZER	
SALES STORAGE COOLER, 11	1				NO CEILING HEIGH	IT IN WALK	K-IN FRI	EEZER	
MEN'S RESTROOM, 112	8'-6"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 5)	USDA					
HALL, 113	8'-6"	U.S.G. NO. 2115 WHITE	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 10)						
WOMEN'S RESTROOM, 114	8'-6"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 5)	USDA					

## Schedule Notes

- 1. REFER TO SHEET E-102 FOR LIGHTING LAYOUT. ALL PANELS ARE 2' x 2'.
  NOTE: ALL MAIN RUNNER CEILING SUPPORTS TO BE INSTALLED
  PERPENDICULAR WITH THE ROOF TRUSS. MIN. 12 GAUGE WIRE FOR
  SUPPORTING CEILING. DO NOT INSTALL WIRE SUPPORT AT EQUIPMENT OR
  SERVICE DOOR AREA. INSTALL 3270 FULL 2'x4' TILE AT WALK-IN FREEZERS
  SERVICE DOOR AREA. (REFER TO THIS PAGE)
- ONE HOUR GUARD SUSPENDED CEILING GRID INFORMATION: ARMSTRONG WHITE GRID SYSTEM. ALUMINUM GRID CAP, ENTIRE STORE.
   12' MAIN #5099 (OR EQUAL)
   4' TEE #5097
   2' TEE #5096
   WALL CHANNEL #5098
- 3. X = CONTRACTOR TO SUPPLY
- 4. NOTE THAT WASHABLE CEILING TILE IS TO BE USED ABOVE THE COFFEE BAR AND ANY FOOD PREP AREA AS WELL.

## **General Notes**

- 1. CENTER CEILING GRID IN SPACES, UNO.
- 2. 1 EXTRA FULL BOX OF FLOOR TILE TO BE LEFT ONTOP OF COOLER NEXT TO
- 3. SEE ELECTRICAL LIGHTING PLAN, E-102 FOR LIGHT FIXTURE SPECIFICATIONS.
- 4. SEE SECURITY PLAN, T-101 FOR SECURITY CAMERA LOCATIONS. COORDINATE WITH CEILING LAYOUT.

## **Construction Notes**

#### **DIVISION 06 - WOOD PLASTICS, AND COMPOSITES**

- PARTITION HEADER, SEE PLAN A-101 FOR LOCATION AND CONSTRUCTION INFORMATION.
  - **DIVISION 09 FINISHES**
- (901) T-BAR GRID AROUND EXHAUST HOOD, DO NOT ATTACH TO HOOD

  DIVISION 11 EQUIPMENT
- (1101) COOLER / FREEZER PACKAGES.
  - **DIVISION 23 HEATING VENTILATING AND AIR CONDITIONING**
- (2301) EXHAUST HOOD AT KITCHEN, SEE MECHANICAL DRAWINGS.

## Symbols Legend

2'x2' DIFFUS

2'x2' DIFFUSER LOCATION TYP.

2'x2' PERFORATED DIFFUSER TYP.

2'x2' RETURN AIR DIFFUSER TYP.

2'X2' DIFFUSER WITH DIVERTER INSTALLED

(LEAVE 2-2' EXTRA CROSS TEE'S FOR SLOTTED DIFFUSERS)

3-1/2" SLOTTED DIFFUSER TYP. 36" LONG AT FRONT DOOR, 48" LONG IN FRONT OF KITCHEN MENU MONITORS.

RESTROOM EXHAUST FAN

2'x4' CREE, INC. LED LIGHTING FIXTURE

12"x48" CREE LED LIGHTING FIXTURE

ELECTRALED, INC. LED LIGHTING FIXTURE

(SALES AREA, KITCHEN, & RESTROOMS)

(SALES AREA, CUSTODIAN ROOM & BACK ROOM)

2'x2' CREE LIGHTING SOLUTIONS, INC. LED LIGHTING FIXTURE (MANAGER'S OFFICE & HALL WAY)

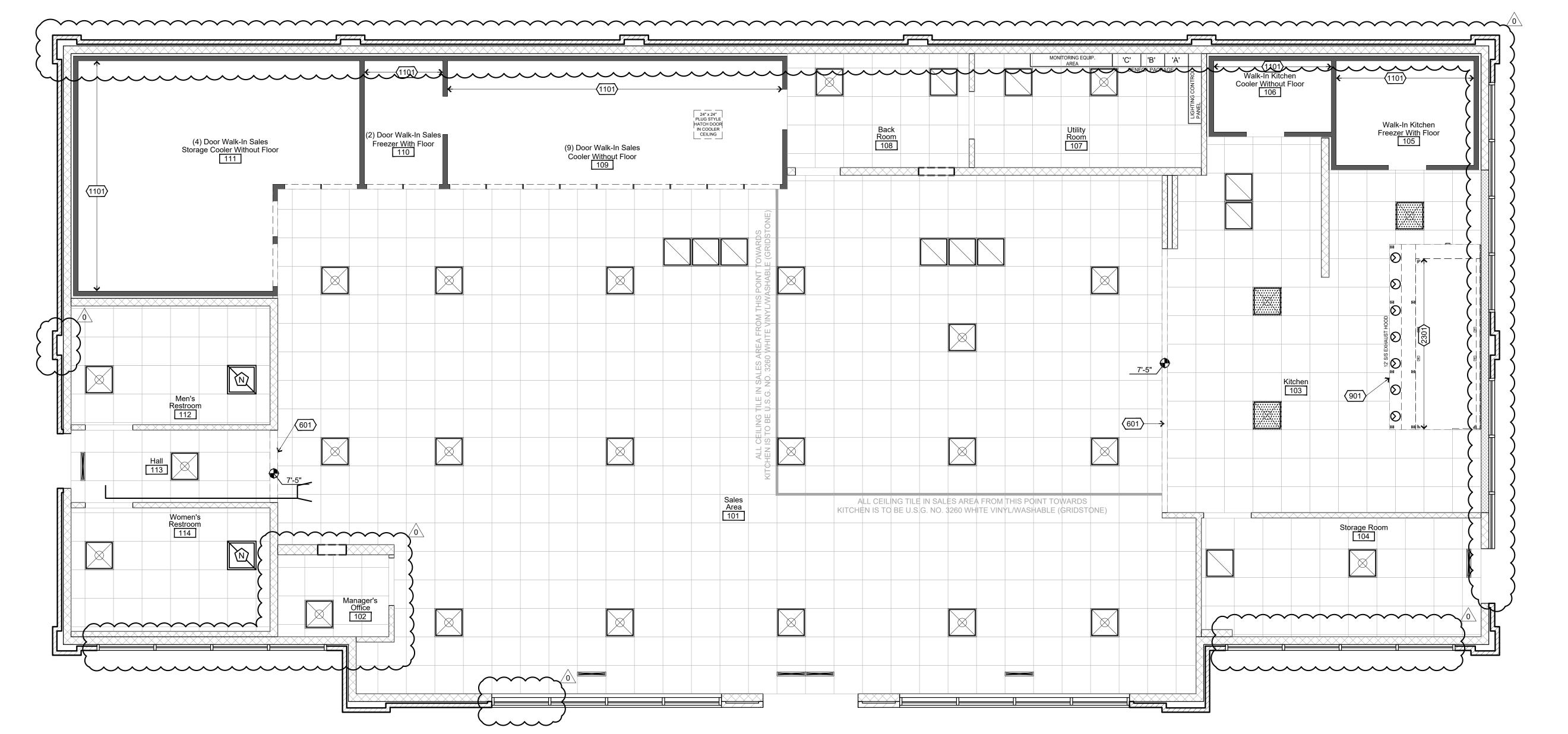
(SALES AREA & KITCHEN COOLERS/FREEZERS)

COMPONENT HARDWARE LED LIGHTING FIXTURE (WALK-IN STORAGE COOLER)

7'-5" Finished Casing
OVERHEAD PARTITION BULKHEADS: NOMINAL 2x4
FRAMING, ALIGN WITH ADJACENT PARTITIONS OR

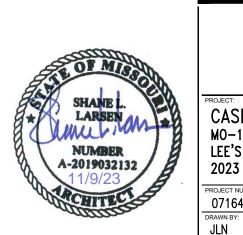
FRAMING, ALIGN WITH ADJACENT PA AS DIMENSIONED, U.N.O.

CEILING SPEAKER











SCHEMMER

Design with Purpose. Build with Confidence.

1044 North 115th Street, Suite 300 COA Number

REFLECTED

CEILING

PLAN

A-111

CASEY'S GENERAL STORE

MO-150 & ARBORIDGE DR

LEE'S SUMMIT, MO

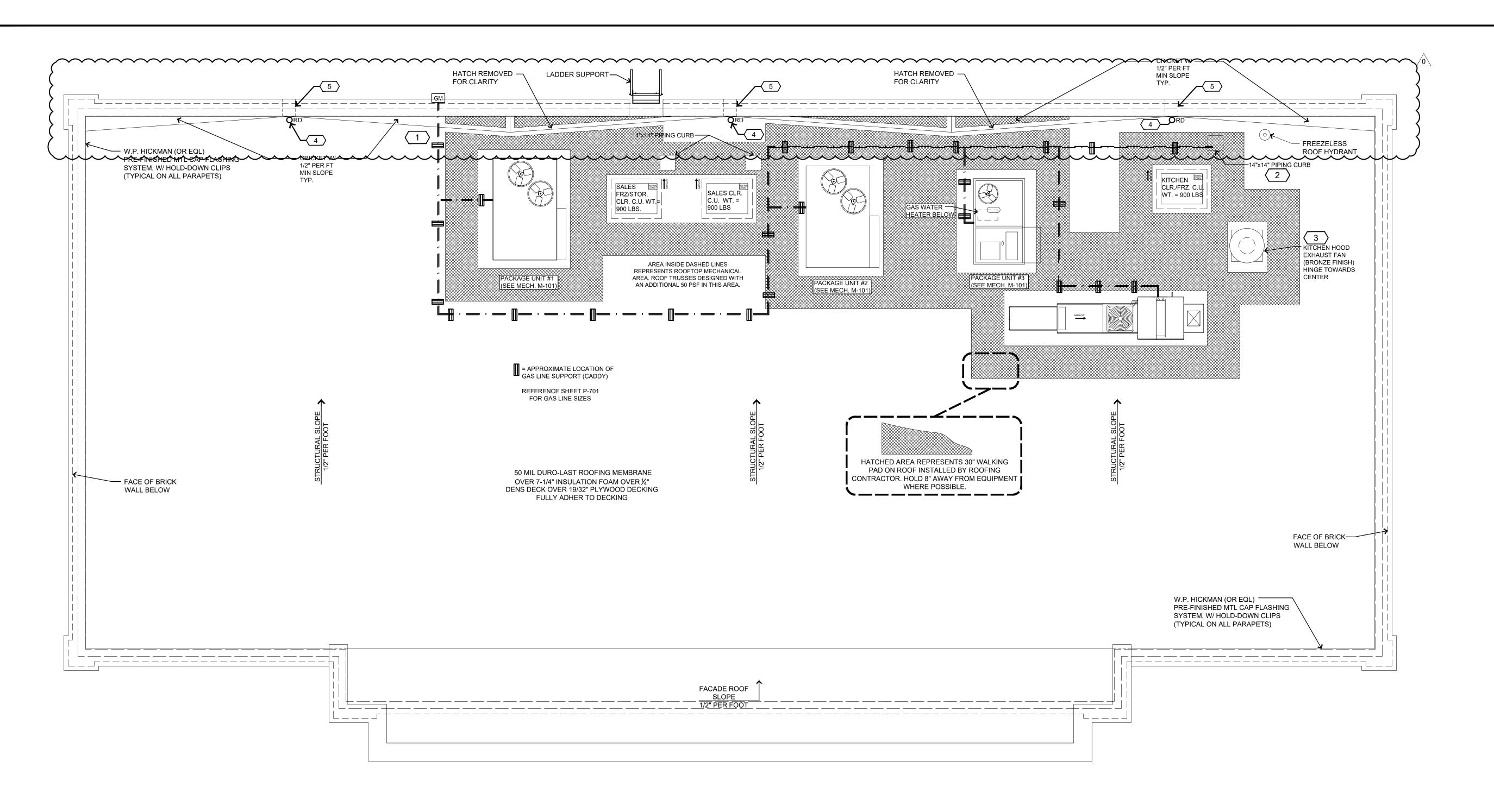
2023 - U4 - V.01

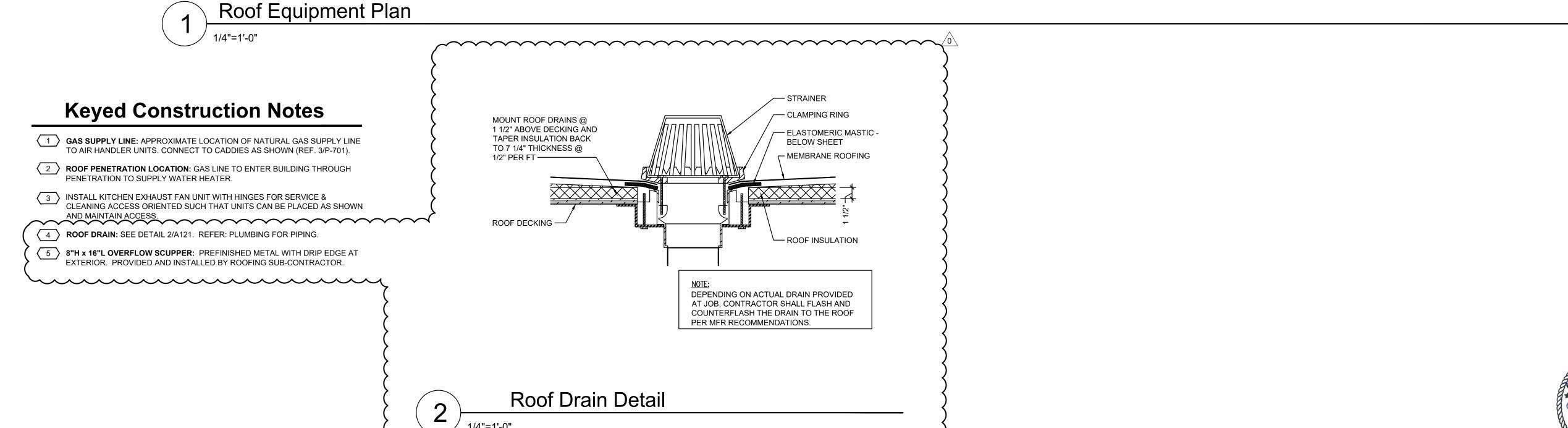
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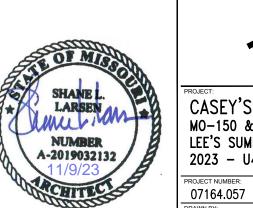
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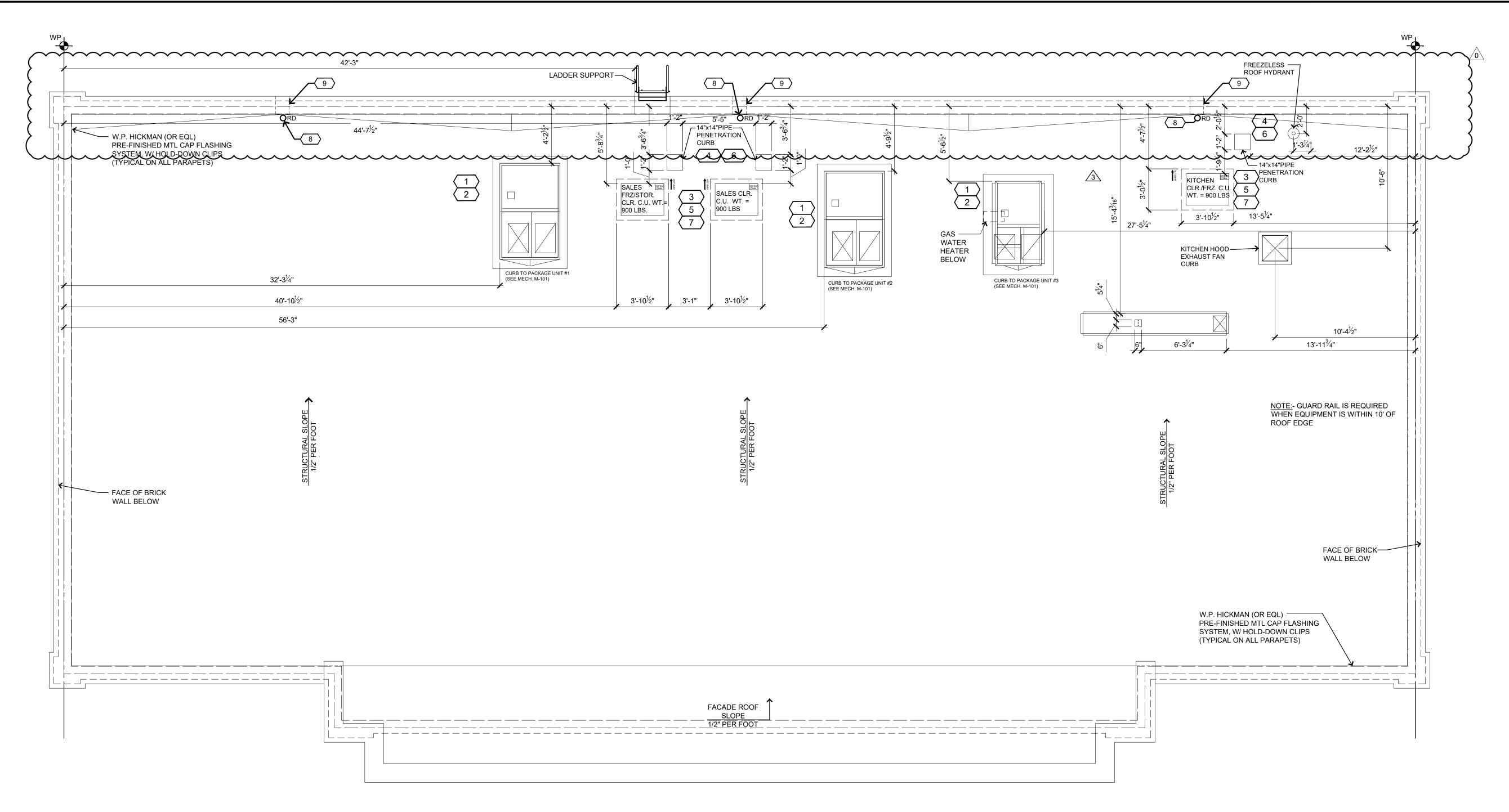


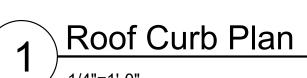






*	SCHEM	IMER
Casey's	Dealgro with Purpose 1044 North 115th Street, Suite 300	<ul> <li>Build with Confidence.</li> <li>COA Number</li> </ul>
	Omaha, NE 68154	CA0666
ASEY'S GENERAL STORE -150 & ARBORIDGE DR E'S SUMMIT, MO 23 - U4 - V.01	0 10/13/2023 REVISED ON:	ROOF EQUIPMENT PLAN

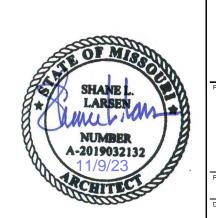




# P L A N

## **Keyed Construction Notes**

- CONDENSATION LINES: HVAC CONTRACTOR TO SUPPLY & INSTALL 1" PVC DRAIN LINES TO DIVERT CONDENSATION FROM AIR HANDLER UNITS ACROSS FLAT ROOF WHERE THE WATER WILL IN TURN FLOW TO THE GUTTER SYSTEM
- 2 RTU CURB HEIGHT: CURB HEIGHT TO BE A MINIMUM OF 8" FROM TOP OF THE RUBBER ROOF TO TOP OF THE CURB.
- 46.5"x36.5"x24" H. REFRIGERATION CONDENSING STAND PROVIDED BY CASEY'S AND INSTALLED BY GENERAL CONTRACTOR. SHIM & LEVEL ON 2X12 RIBBON WITH MIN. (2) JOIST POSITIONED UNDER. SEE 3/A-122
- COORDINATE 14"X14/24" PIPE PENETRATION CURB WITH JOIST
- 2X12 RIBBON FOR REFRIGERATION CONDENSING UNIT MOUNTING.
  MOUNTING (INSTALL ON TOP OF SHEATHING, PRE-DRILL & LAG THROUGH
  INTO TRUSSES) (TYPICAL) (3/A-122)
- 6 REFRIGERATION/EXHAUST CURBS: WOOD STUD PARTITION PIPING CHASE WITH GYP. TO BE ROUTED TO BOTTOM OF JOIST
- TO DOLL INVESTIGATION OF THE PARTY OF THE PA
- 8 ROOF DRAIN: SEE DETAIL 2/A121. REFER: PLUMBING FOR PIPING.
- 8"H x 16"L OVERFLOW SCUPPER: PREFINISHED METAL WITH DRIP EDGE AT EXTERIOR. PROVIDED AND INSTALLED BY ROOFING SUB-CONTRACTOR.



22		
*	SCH	EMMER
Casey's	1044 North 115th Street, St Omaha, NE 68154	Ith Purpose. Build with Confidence.  COA Number CA0666
CASEY'S GENERAL MO-150 & ARBORIDGE D LEE'S SUMMIT, MO 2023 - U4 - V.01		3/2023
OJECT NUMBER: 07164.057  AWN BY: CHECK	KED BY:	A-122

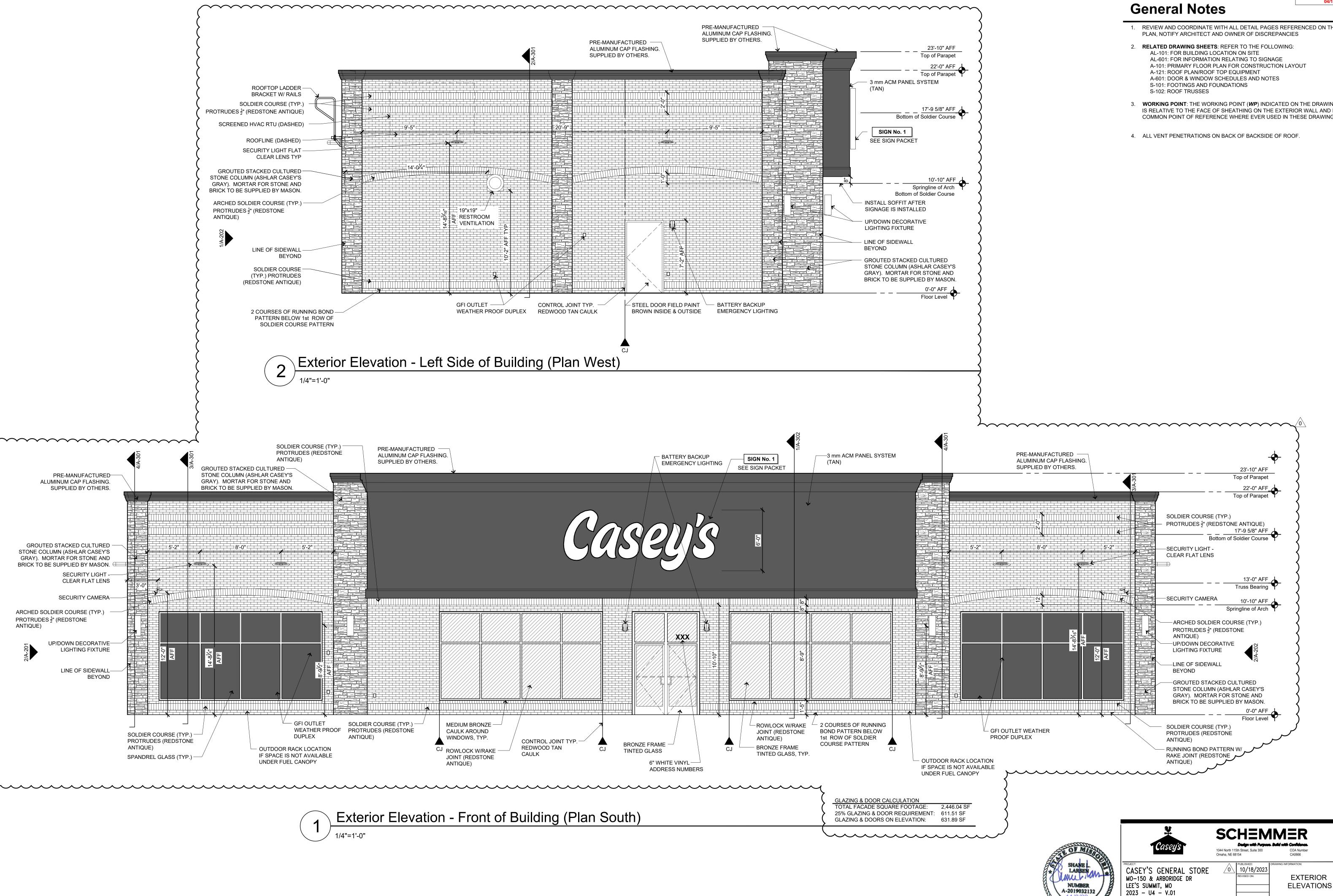
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## RELEASED FOR Lee's Summit, I **General Notes** 1. REVIEW AND COORDINATE WITH ALL DETAIL PAGES REFERENCED ON THIS PLAN. NOTIFY ARCHITECT AND OWNER OF DISCREPANCIES 2. **RELATED DRAWING SHEETS**: REFER TO THE FOLLOWING: AL-101: FOR BUILDING LOCATION ON SITE AL-601: FOR INFORMATION RELATING TO SIGNAGE A-101: PRIMARY FLOOR PLAN FOR CONSTRUCTION LAYOUT A-121: ROOF PLAN/ROOF TOP EQUIPMENT A-601: DOOR & WINDOW SCHEDULES AND NOTES S-101: FOOTINGS AND FOUNDATIONS S-102: ROOF TRUSSES 3. WORKING POINT: THE WORKING POINT (WP) INDICATED ON THE DRAWINGS IS RELATIVE TO THE FACE OF SHEATHING ON THE EXTERIOR WALL AND IS A COMMON POINT OF REFERENCE WHERE EVER USED IN THESE DRAWINGS 4. ALL VENT PENETRATIONS ON BACK OF BACKSIDE OF ROOF. Top of Parapet 22'-0" AFF\_\_\_\_ Top of Parapet SOLDIER COURSE (TYP.) PROTRUDES $\frac{1}{2}$ " (REDSTONE ANTIQUE) 17'-9 5/8" AFF Bottom of Soldier Course CLEAR FLAT LENS 13'-0" AFF Truss Bearing SECURITY CAMERA 10'-10" AFF Springline of Arch -ARCHED SOLDIER COURSE (TYP.) PROTRUDES ½" (REDSTONE ANTIQUE) -UP/DOWN DECORATIVE LIGHTING FIXTURE LINE OF SIDEWALL BEYOND -GROUTED STACKED CULTURED STONE COLUMN (ASHLAR CASEY'S GRAY). MORTAR FOR STONE AND BRICK TO BE SUPPLIED BY MASON. 0'-0" AFF 👍 Floor Level SOLDIER COURSE (TYP.) PROTRUDES (REDSTONE ANTIQUE) RUNNING BOND PATTERN W/ RAKE JOINT (REDSTONE ANTIQUE) 1044 North 115th Street, Suite 300

07164.057

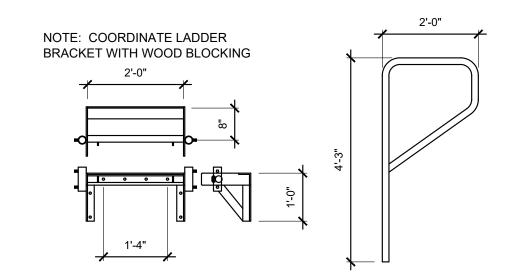
JLN

A-201



## Lee's Summit, M 04/16/2024 **General Notes**

- 1. REVIEW AND COORDINATE WITH ALL DETAIL PAGES REFERENCED ON THIS PLAN, NOTIFY ARCHITECT AND OWNER OF DISCREPANCIES
- 2. **RELATED DRAWING SHEETS**: REFER TO THE FOLLOWING: AL-101: FOR BUILDING LOCATION ON SITE AL-601: FOR INFORMATION RELATING TO SIGNAGE A-101: PRIMARY FLOOR PLAN FOR CONSTRUCTION LAYOUT A-121: ROOF PLAN/ROOF TOP EQUIPMENT
- A-601: DOOR & WINDOW SCHEDULES AND NOTES S-101: FOOTINGS AND FOUNDATIONS S-102: ROOF TRUSSES
- 3. WORKING POINT: THE WORKING POINT (WP) INDICATED ON THE DRAWINGS IS RELATIVE TO THE FACE OF SHEATHING ON THE EXTERIOR WALL AND IS A COMMON POINT OF REFERENCE WHERE EVER USED IN THESE DRAWINGS
- 4. ALL VENT PENETRATIONS ON BACK OF BACKSIDE OF ROOF.



PRE-MANUFACTURED ALUMINUM CAP FLASHING.

SUPPLIED BY OTHERS.

SOLDIER COURSE (TYP.)

ROOFLINE (DASHED)

- SECURITY LIGHT FLAT

CLEAR LENS TYP.

- DOWN SPOUT TYP.

LOCATION (VERIFY)

- 3'x3'x6" CONCRETE PAD

OFFICE FOR SATELLITE

SOLDIER COURSE (TYP.)

SEAL PENETRATION!!

(REQUIRED).

23'-10" AFF

Top of Parapet

PROTRUDES ½" (REDSTONE ANTIQUE)

\_\_\_ 13'-0" AFF Roof Truss Bearing

Springline of Arch

OPTIONAL LOTTERY SATELLITE

GROUTED STACKED CULTURED

STONE COLUMN (ASHLAR CASEY'S

GRAY). MORTAR FOR STONE AND

BRICK TO BE SUPPLIED BY MASON.

- 1" CONDUIT RAN TO MANAGER'S

PROTRUDES (REDSTONE ANTIQUE)

- 2 COURSES OF RUNNING BOND PATTERN BELOW 1st ROW OF SOLDIER COURSE PATTERN.

0'-0" AFF Floor Level

10'-10" AFF

\_\_\_\_\_\_17'-9 5/8" AFF Bottom of Soldier Course

Top of Parapet

Ladder Bracket

⊒8'-11<sup>3</sup>⁄8"

ROOFTOP LADDER

**BRACKET W/ RAILS** 

SECURITY LIGHT FLAT

GROUTED STACKED CULTURED STONE COLUMN (ASHLAR CASEY'S GRAY). MORTAR FOR STONE AND

BRICK TO BE SUPPLIED BY MASON.

ARCHED SOLDIER COURSE (TYP.)

CLEAR LENS TYP

PROTRUDES <sup>1</sup>/<sub>2</sub>"

(REDSTONE ANTIQUE)

-LINE OF SIDEWALL

PROTRUDES 1/2"

SOLDIER COURSE (TYP.)

(REDSTONE ANTIQUE)

BEYOND

- 2 COURSES OF RUNNING BOND PATTERN BELOW 1st ROW OF SOLDIER COURSE PATTERN

GLAZING & DOOR CALCULATION
TOTAL FACADE SQUARE FOOTAGE:

25% GLAZING & DOOR REQUIREMENT: 275.87 SF GLAZING & DOORS ON ELEVATION: 284.68 SF

2 Exterior Elevation - Right Side of Building (Plan East)

GFI OUTLET WEATHER

PROOF DUPLEX

PRE-MANUFACTURED

SUPPLIED BY OTHERS.

ALUMINUM CAP FLASHING.

- GFI OUTLET WEATHER

PROOF DUPLEX

SPANDREL GLASS,

BRONZE FRAME (TYP.)

FRONT PARAPET PRE-MANUFACTURED SCREENED HVAC RTU (DASHED) SCREENED HVAC RTU (DASHED) ALUMINUM CAP FLASHING. SUPPLIED BY OTHERS. ROOFTOP LADDER BRACKET W/ RAILS

STEEL DOOR FIELD PAINT

BROWN INSIDE & OUTSIDE

OVERFLOW -ROOFLINE (DASHED) SCUPPER TYP. <sup>∓</sup>8'-11<sup>3</sup>⁄8" <sup>±</sup> <sup>∓</sup>19'-10<sup>13</sup>∕16" SECURITY LIGHT FLAT CLEAR LENS SECURITY LIGHT 3" HORIZONTAL FLAT CLEAR LENS PVC CONCENTRIC GROUTED STACKED CULTURED TYP. VENT TERMINATION STONE COLUMN (ASHLAR CASEY'S GRAY). MORTAR FOR STONE AND BRICK TO BE SUPPLIED BY MASON.

23'-10" AFF
Top of Parapet

22'-0" AFF Top of Parapet

17'-9 5/8" AFF \_ \_ Bottom of Soldier Course

10'-10" AFF
Springline of Arch

Floor Level

3 mm ACM PANEL SYSTEM

SIGN No. 1

SEE SIGN PACKET

INSTALL SOFFIT AFTER

SIGNAGE IS INSTALLED UP/DOWN DECORATIVE LIGHTING FIXTURE

LINE OF SIDEWALL

GROUTED STACKED CULTURED STONE COLUMN (ASHLAR CASEY'S

GRAY). MORTAR FOR STONE AND

BRICK TO BE SUPPLIED BY MASON.

BEYOND

ARCHED SOLDIER COURSE (TYP.) PROTRUDES 1/2" (REDSTONE ELECTRICAL ENTRANCE OPTIONAL LOTTERY SATELLITE LOCATION (VERIFY) TANK

1" CONDUIT RAN TO POP RACK

BOLT TANK TO SLAB PROOF OUTLET

SEAL PENETRATION!!

1" CONDUIT RAN TO MANAGER'S OFFICE FOR SATELLITE SEAL PENETRATION!!

GFI WEATHER

Exterior Elevation - Back of Building (Plan North)

GFI OUTLET WEATHER-

PROOF DUPLEX

SIDEWALK INFORMATION

SHANE L. LARSEN

07164.057

JLN

1044 North 115th Street, Suite 300

CASEY'S GENERAL STORE /0\| 10/18/2023| MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01

**EXTERIOR ELEVATIONS** A-202

ANTIQUE)

3'x6'x6" CONCRETE PAD

SEE 3/A-202 ROOFTOP LADDER BRACKET W/ RAILS SEE 3/A-202

BATTERY BACKUP

EMERGENCY LIGHTING

PRE-MANUFACTURED

SUPPLIED BY OTHERS.

ALUMINUM CAP FLASHING.

<u>-</u>--9"⊥

5'x7' CONCRETE — LADDER PAD REFER STRUCTURAL

NATURAL GAS SERVICE -

W/ GAS METER (SEE SHEET P-701)

PAINT EXTERIOR GAS LINE WITH

R2 2 32NDS Y3 13 32NDS

W1 24 32NDS

G2 1 32ND

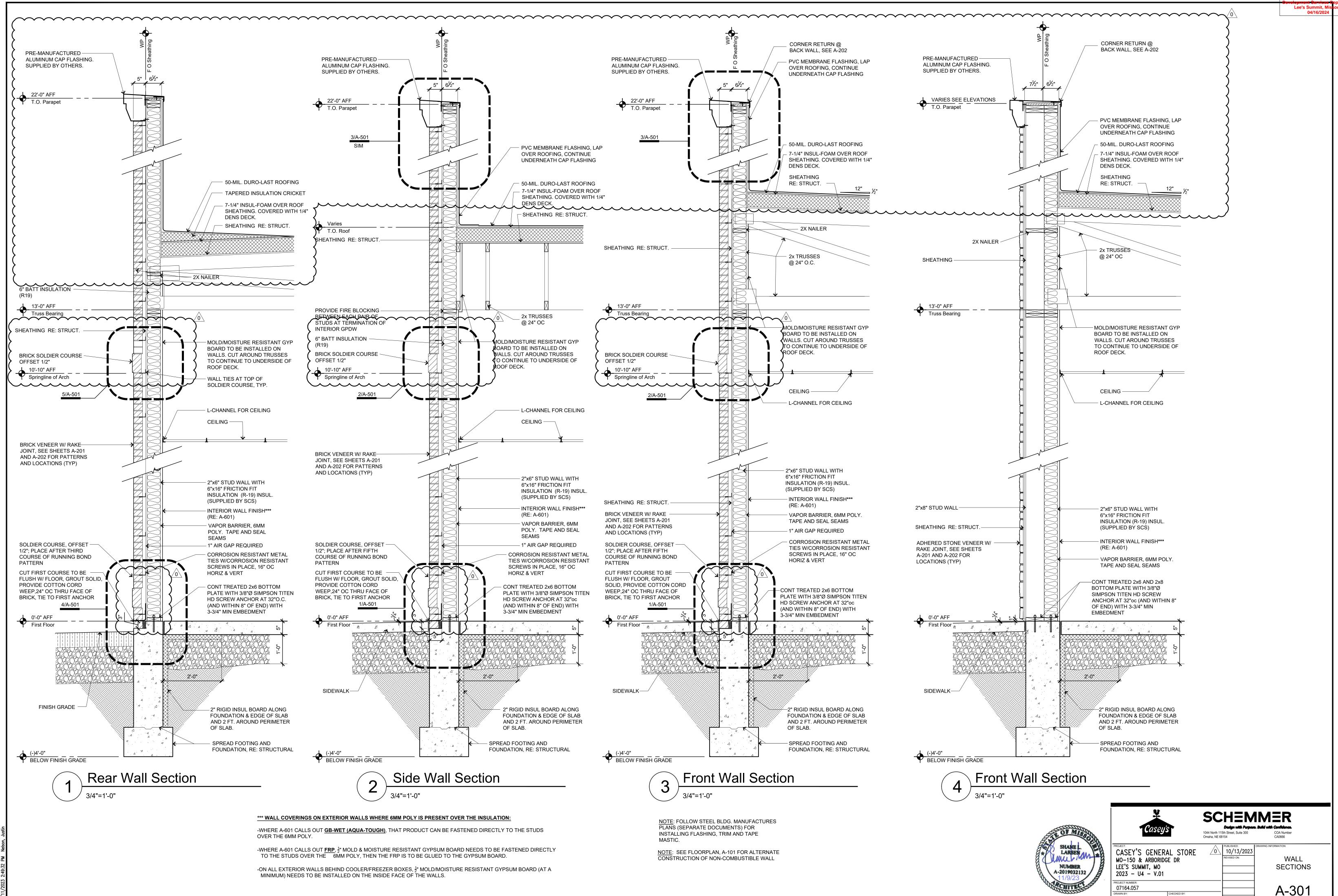
CONTRACTOR SUPPLIED PAINT SHERWIN

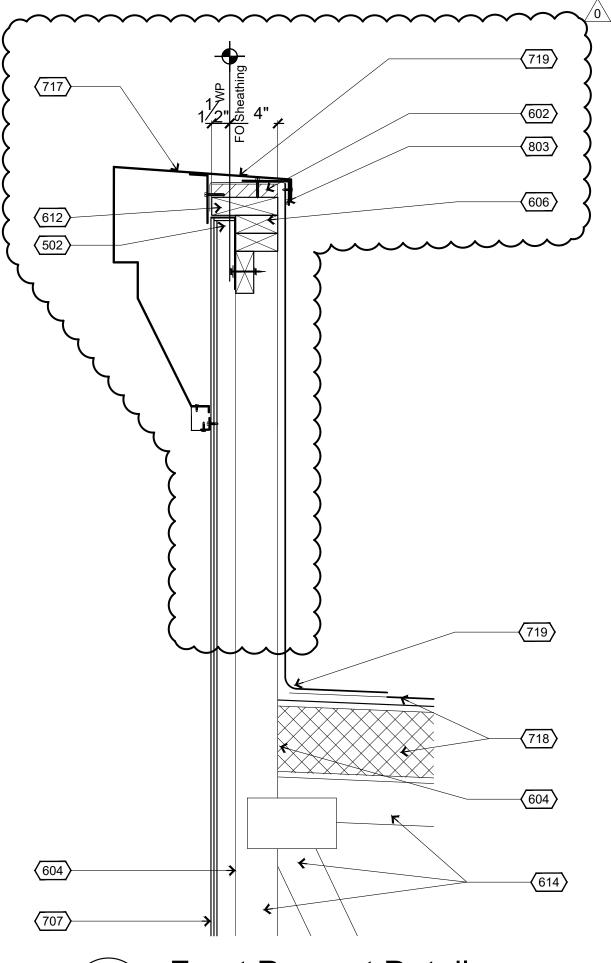
B1 6 OZ AND 48 32NDS

WILLIAMS SHER KEM F75TC1 LOW GLOSS.

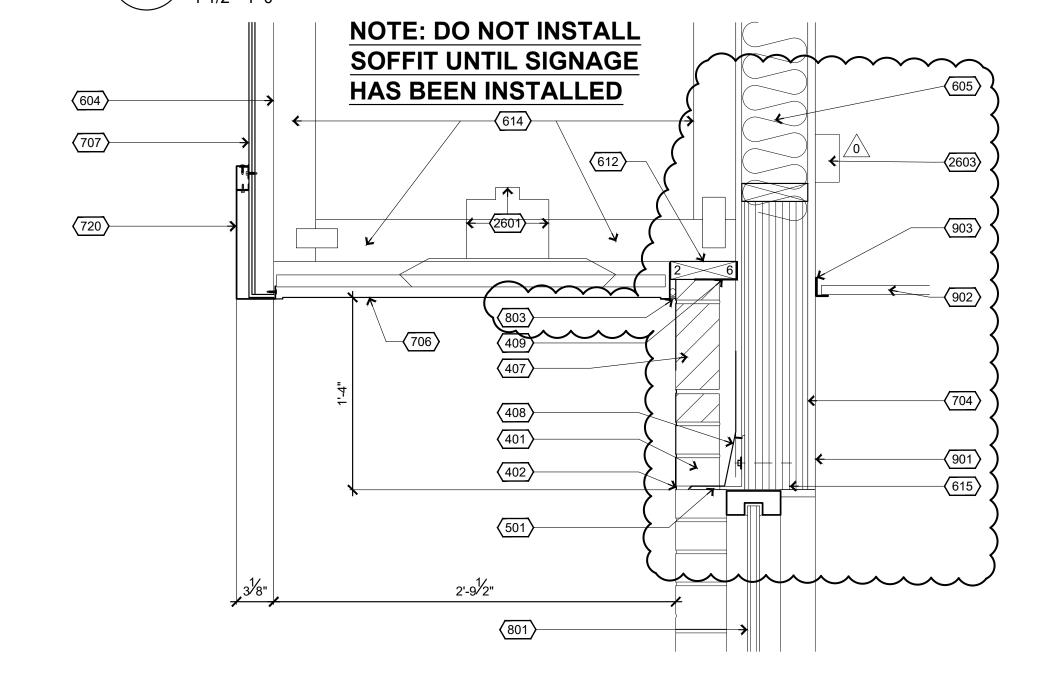
GALLON PAINT FORMULA - CASEY'S BRONZE:

JLN





Front Parapet Detail



Window Header Detail (801) 802 404 403 605 (604) 406 **405** Window Sill Detail

Keyed Construction Notes

#### **DIVISION 4 - MASONRY**

- FACE BRICK: COLOR AS INDICATED ON ELEVATIONS, RUNNING BOND PATTERN (TYP) W/ RAKE JOINTS
- 402 WEEP: PROVIDE COTTON CORD WEEPS THROUGH MASONRY HEAD JOINTS IN BASE COURSE AND FIRST COURSE ABOVE ANY LINTEL OR RELIEF ANGLE;
- 403 OFFSET SOLDIER COURSE: 1/2"; PLACE AFTER FIFTH COURSE OF RUNNING BOND PATTERN W/ RAKE JOINTS
- ROWLOCK SILL: WHERE INDICATED, SLOPE FOR WATER RUNOFF W/ RAKE
- (405) CORROSION RESISTANT METAL MASONRY TIES, SCREWED IN PLACE WITH CORROSION RESISTANT SCREWS, 16" OC HORIZ & VERT, STAGGER EA
- 406 MINIMUM 1" AIR GAP REQUIRED, KEEP BACK OF CAVITY FREE OF EXCESS MORTAR AND DEBRIS FOR PROPER PERFORMANCE
- SOLDIER COURSE: FLUSH W/ FACE BRICK, CONTINUOUS ACROSS FRONT OF BUILDING OFFSET (SEE ELEVATIONS A-201)
- 408 THRU WALL FLASHING: 'FLASH-VENT' BY YORK MFG OR EQUAL; ASPHALT FREE COPPER W/ NON-WOVEN FABRIC DRAINAGE MAT, 3 OZ, EXTEND BEYOND MASONRY FACE 1/2"
- $\langle 409 \rangle$  MASONRY ANCHORS (SEE NOTE 405) SET IN BED OF MORTAR ON TOP OF BRICK SOLDIER COURSE

#### **DIVISION 5 - METALS**

- (501) LINTEL: 4" x 4" x 1/4" STEEL LINTEL, FACTORY PRIMED; ANCHOR TO (3) LVL HEADER WITH 1/2"x4-1/2" LONG CORROSION RESISTANT LAG BOLTS @ 24" O.C.; PAINT FINISH TO MATCH DARK BRONZE WINDOW FRAME.
- (502) 6"x6"x1/4"x12" STEEL ANGLE EVERY 3'. ANCHOR TO 2x BLOCKING AND THROUGH SHEATHING INTO 2x TOP PLATE

#### **DIVISION 6 - WOOD, PLASTICS, COMPOSITES**

- 602 PARAPET CAP FLASHING SUBSTRATE; 3/4" PLYWOOD
- (604) SHEATHING; RE: STRUCTURAL
- (605) WOOD STUD FRAMED WALL, 2X4 OR 2X6 AS INDICATED IN SECTIONS
- 606 DOUBLE 2X TOP PLATES
- 612 2X BLOCKING
- (614) WOOD TRUSS: NOM 2X TRUSS FRAMES @ 24" OC, DESIGNED BY MFG
- 615 LVL/PSL HEADER: SEE STRUCTURAL DRAWINGS
- (616) WOOD SILL & TRIM CASING, PROVIDED AND SPECIFIED BY CASEY'S

#### **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

- 702 BATT INSULATION: FRICTION FIT INSULATION 6" R-19
- 704 VAPOR BARRIER (6 MILL): INSTALL VAPOR BARRIER BETWEEN STUDS AND INTERIOR WALL MATERIAL.
- (706) ALCOA/OR EQUAL ALUMINUM SOFFIT SYSTEM PROVIDE UNDER EAVE VENTS AS NECESSARY. DARK BRONZE IN COLOR. **INSTALL AFTER EXTERIOR** SIGNAGE.
- (707) 3 mm ACM PANEL SYSTEM. (BTR RED)
- 717 PRE-MANUFACTURED ALUMINUM CAP FLASHING. SUPPLIED BY OTHERS.
- 718 MEMBRANE ROOFING: 50-MIL. DURO-LAST ROOFING OVER TOP OF 7-1/4" INSUL-FOAM, ON TOP OF SHEATHING (RE: STRUCT.) COVERED WITH 1/4" DENS DECK.
- (719) PARAPET FLASHING: COVER PARAPET NAILER WITH PVC MEMBRANE FLASHING, ROLL OVER BACK EDGE, CONTINUE DOWN VERTICAL FACE AND LAP OVER MEMBRANE ROOF PER MANUFACTURING INSTRUCTIONS, HEAT WELD ALL SEAMS.
- 720 PRE-MANUFACTURED ALUMINUM TRIM. SUPPLIED BY OTHERS.

## **DIVISION 8 - OPENINGS**

- 801 STOREFRONT WINDOW IN BRONZE ANODIZED ALUMINUM FRAME
- 802 BRONZE SEALANT
- 803 BACKER ROD AND BRONZE SEALANT  $\overline{\overline{\phantom{a}}}$ **DIVISION 9 - FINISHES**
- 901 WALL FINISH: REFER TO FINISH SCHEDULE A-601 FOR FACE MATERIAL &
- 902 LAY-IN CEILING PANELS: REFER TO CEILING SCHEDULE A-111
- 903 L-CHANNEL CEILING EDGE

## **DIVISION 26 - ELECTRICAL**

- (2601) LED SOFFIT LIGHT, SEE E-102, ELECTRICAL LIGHTING PLAN
- (2602) MONITOR AND MOUNTING BRACKET, ATTACH TO WALL. (CONTRACTOR TO INSTALL 4"x4" MOUNTING BRACKET)
- (2603) J-BOX ABOVE HEADER FOR POWER/DATA TO MONITORS, SEE TECHNOLOGY SHEETS





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CASEY'S GENERAL STORE 10/13/2023 WALL MO-150 & ARBORIDGE DR SECTIONS LEE'S SUMMIT, MO 2023 - U4 - V.01 07164.057 A-302

1 1/2"=1'-0"

\*\*\* WALL COVERINGS ON EXTERIOR WALLS WHERE 6MM POLY IS PRESENT OVER THE INSULATION:

TO THE STUDS OVER THE 6MM POLY. THEN THE FRP IS TO BE GLUED TO THE GYPSUM BOARD.

MINIMUM) NEEDS TO BE INSTALLED ON THE INSIDE FACE OF THE WALLS.

OVER THE 6MM POLY.

-WHERE A-601 CALLS OUT **GB-WET (AQUA-TOUGH)**, THAT PRODUCT CAN BE FASTENED DIRECTLY TO THE STUDS

-WHERE A-601 CALLS OUT FRP, ½" MOLD & MOISTURE RESISTANT GYPSUM BOARD NEEDS TO BE FASTENED DIRECTLY

-ON ALL EXTERIOR WALLS BEHIND COOLER/FREEZER BOXES, <sup>1</sup>/<sub>2</sub>" MOLD/MOISTURE RESISTANT GYPSUM BOARD (AT A

## Keyed Construction Notes 04/16/2004

#### **DIVISION 4 - MASONRY**

SET MIN 24" OC

- 401 FACE BRICK: COLOR AS INDICATED ON ELEVATIONS, RUNNING BOND PATTERN (TYP) W/ RAKE JOINTS
- (402) WEEP: PROVIDE COTTON CORD WEEPS THROUGH MASONRY HEAD JOINTS IN BASE COURSE AND FIRST COURSE ABOVE ANY LINTEL OR RELIEF ANGLE;
- OFFSET SOLDIER COURSE: 1/2"; PLACE AFTER FIFTH COURSE OF RUNNING BOND PATTERN W/ RAKE JOINTS
- $\overline{\langle 404 \rangle}$  (NOT USED)
- CORROSION RESISTANT METAL MASONRY TIES, SCREWED IN PLACE WITH CORROSION RESISTANT SCREWS, 16" OC HORIZ & VERT, STAGGER EA VERTICAL ROW
- 406 MINIMUM 1" AIR GAP REQUIRED, KEEP BACK OF CAVITY FREE OF EXCESS MORTAR AND DEBRIS FOR PROPER PERFORMANCE
- \$\langle 407 \rangle SOLDIER COURSE: FLUSH W/ FACE BRICK, CONTINUOUS ACROSS FRONT OF BUILDING OFFSET (SEE ELEVATIONS A-201)
- THRU-WALL FLASHING: 'FLASH-VENT' BY YORK MFG OR EQUAL; ASPHALT FREE COPPER W/ NON-WOVEN FABRIC DRAINAGE MAT, 3 OZ, EXTEND
- BEYOND MASONRY FACE 1/2" MASONRY ANCHORS (SEE NOTE 405) SET IN BED OF MORTAR ON TOP OF

## **DIVISION 5 - METALS**

BRICK SOLDIER COURSE

501 STEEL LINTEL: ANCHOR BACK TO STRUCTURAL HEADER - SEE STRUCTURAL FOR ANCHORAGE & HEADER REQUIREMENTS; PRIME & PAINT TO MATCH DARK BRONZE WINDOW FRAME.

#### **DIVISION 6 - WOOD, PLASTICS, COMPOSITES**

- (602) PARAPET CAP FLASHING SUBSTRATE; 3/4" PLYWOOD
- 604 SHEATHING; RE: STRUCTURAL
- (605) WOOD STUD FRAMED WALL, 2X4 OR 2X6 AS INDICATED IN SECTIONS
- (606) TRIPLE 2X TOP PLATES
- (612) DBL 2x8 BLOCKING FOR FULL LENGTH OF WINDOW OPENING.

#### **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

- 702 BATT INSULATION: FRICTION FIT INSULATION 5 1/2" R-24
- 704 VAPOR BARRIER (6 MIL): INSTALL VAPOR BARRIER BETWEEN STUDS AND
- INTERIOR WALL MATERÍAL.
- $\overline{\langle 717 \rangle}$  PRE-MANUFACTURED ALUMINUM CAP FLASHING. SUPPLIED BY OTHERS.
- 719 PARAPET FLASHING: COVER PARAPET NAILER WITH PVC MEMBRANE FLASHING, ROLL OVER BACK EDGE, CONTINUE DOWN VERTICAL FACE AND LAP OVER MEMBRANE ROOF PER MANUFACTURING INSTRUCTIONS, HEAT WELD ALL SEAMS.
- (720) BACKER ROD & SEALANT

## **DIVISION 8 - OPENINGS**

- (801) ALUMINUM STOREFRONT FRAME BRONZE ANODIZED FINISH.
- 802 BRONZE SEALANT INSTALLED BELOW DRIP EDGE.
- 803 ALUMINUM CLIP ANGLES BY WINDOW MFG. TO ANCHOR WINDOW FRAME BACK TO WOOD BLOCKING.
- (804) METAL FLASHING WITH DRIP EDGE.

## **DIVISION 9 - FINISHES**

(901) WALL FINISH: REFER TO FINISH SCHEDULE A-601 FOR FACE MATERIAL &

- 902 LAY-IN CEILING PANELS: REFER TO CEILING SCHEDULE A-111
- 903 L-CHANNEL CEILING EDGE



CASEY'S GENERAL STORE **∆ | 10/18/2023 |** MO-150 & ARBORIDGE DR SECTIONS LEE'S SUMMIT, MO 2023 - U4 - V.01 07164.057 JLN

A-303

WALL

NOTE: REFER TO SHEET AQ-101 FOR ADDITIONAL EQUIPMENT

## **Keyed Construction Notes**

#### DIVISION 6 - WOOD, PLASTICS, AND COMPOSITES

- (601) PRE-ASSEMBLED CASEWORK WITH 1-1/2" T. CORIAN SOLID SURFACE COUNTERTOP. SET LEVEL AND ANCHOR TO FLOOR.
- $\langle 602 \rangle$  1 1/2" T. CORIAN SOLID SURFACE WALL CAP.
- (603) 10" TALL LETTERING. FONT: BRANDON TEXT-BLACK; 13mm WHITE EPVC. CITY NAME CHANGES PER LOCATION)

#### **DIVISION 9 - FINISHES**

- (901) 5/8" USG FIBEROCK MOISTURE AND MOLD RESISTANT WITH "CASEYS GREY" PAINT FINISH. SEE FINISH SCHEDULE, A-601 FOR PAINT INFORMATION.
- 902 5/8" USG FIBEROCK MOISTURE AND MOLD RESISTANT WITH "CASEYS NEW RED 2020" PAINT FINISH. SEE FINISH SCHEDULE, A-601 FOR PAINT INFORMATION
- (903) A. CERAMIC TILE (KIMONA SILK P327 PANDA BLACK 12"x24" DALTILE PART# P32712241PK) VERTICAL BRICK SHALL BE SET WITH LIGHTWEIGHT MORTAR WITH 1/4" TROWEL. GROUT: #47 CHARCOAL. TILE SUPPLIED BY OWNER AND INSTALLED BY FLOORING CONTRACTOR.
  - 12"x24" PART# IC1312241PK) VERTICAL BRICK SHALL BE SET WITH LIGHTWEIGHT MORTAR WITH 1/4" TROWEL. GROUT: #47 CHARCOAL. TILE SUPPLIED BY OWNER AND INSTALLED BY FLOORING CONTRACTOR.

B. CERAMIC TILE (WAINSCOTTING - IRONCRAFT IC13 CHARCOAL GRAY

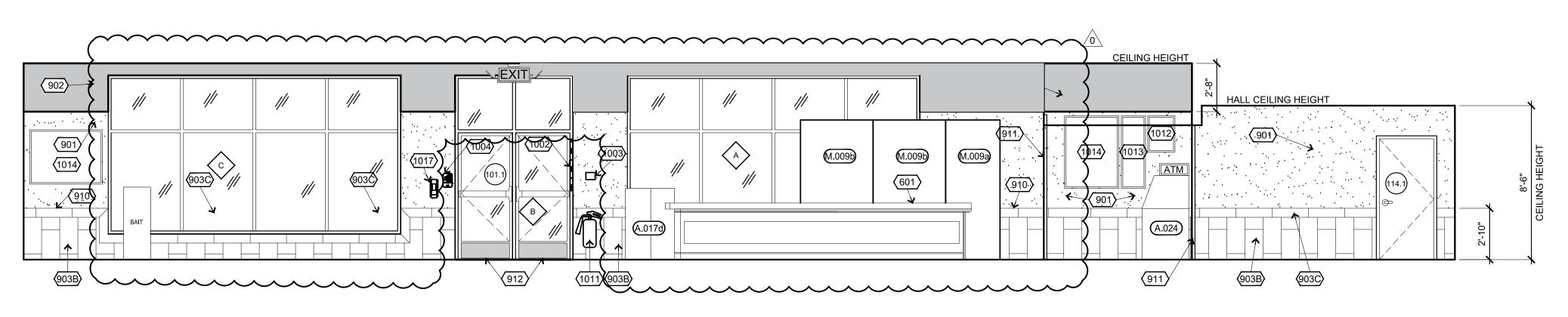
- C. CERAMIC TILE (KIMONA SILK P327 PANDA BLACK 6"x24" CUT FROM 12"x24" DALTILE PART# P32712241PK) VERTICAL BRICK SHALL BE SET WITH LIGHTWEIGHT MORTAR WITH 1/4" TROWEL. GROUT: #47 CHARCOAL. TILE SUPPLIED BY OWNER AND INSTALLED BY FLOORING CONTRACTOR.
- (910) TILE BULLNOSE SHALL BE SET WITH LIGHTWEIGHT MORTOR WITH 1/4" TROWEL. SCHLUTER TILE EDGE TO BE INSTALLED ON TOP OF BAND. TILE SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.
- 911 2"x2"x8' PLASTIC OUTSIDE CORNERS TO BE SUPPLIED BY CASEYS & INSTALLED BY CONTRACTOR AFTER FINISHED WALL COVERINGS & PAINT IS COMPLETE. CUT TO FIT HEADER ON RESTROOM HALLWAY CORNERS. INSTALL FULL 8' PIECE ON CORNER BY THE DONUT CASE. INSTALL PRIOR TO WALL GRAPHICS BY THE DONUT CASE.
- 912 10" KICK PLATE
- 913 SCHLUTER TILE EDGE TO BE INSTALLED @ WALL OPENINGS.

#### **DIVISION 10 - SPECIALTIES**

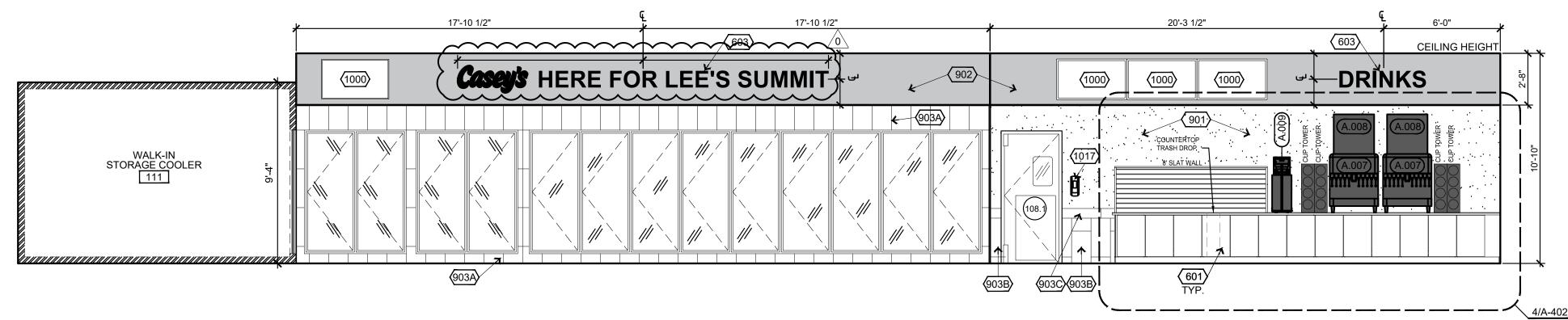
- 49" DIGITAL MENU BOARDS: MOUNT TO 3/4" PLYWOOD SHEETING. COORDINATE WIRING WITH ELECTRICAL.
- (1001) SECURITY MONITOR: MOUNT TO RECESSED BRACING IN WALL.

COORDINATE WIRING WITH ELECTRICAL. REF. SHEET T-101 FOR MORE INFO.

- DOOR SECURITY CAMERA. REF. SHEET T-101 FOR MORE INFO.
- \$\frac{1003}\$ SECURITY KEYPAD. REF. SHEET T-101 FOR MORE INFO.
- 1004 TACTILE SIGN. REF. SHEET G-011 FOR MORE INFO.
- (1009) SQUARE TRASH RECEPTACLE (24"x24"x48") (1010) 18"X24" VERTICAL BULLETIN BOARD MOUNT 55" TO BOTTOM A.F.F.
- 1011 10 LB. ABC 4-A-8BC FIRE EXTINGUISHER 32" TO HANDLE A.F.F.
- (1012) 18"X24" VERTICAL BULLETIN BOARD MOUNT 85" TO BOTTOM A.F.F.
- (1013) 16"X48" VERTICAL BULLETIN BOARD MOUNT 36" TO BOTTOM A.F.F.
- (1014) 36"X48" VERTICAL BULLETIN BOARD MOUNTED 50" A.F.F.
- (1015) DRYWALL CONTROL JOINTS ABOVE COOLER DOORS.
- (1016) EMERGENCY PULL STATION MOUNT 48" TO CENTER OF OCTAGON BOX.
- (1017) WALL MOUNTED HAND SANITIZER. 48" TO CENTER A.F.F.
  - **DIVISION 12 FURNISHINGS**
- (1201) OWNER SUPPLIED TABLE & CHAIRS.

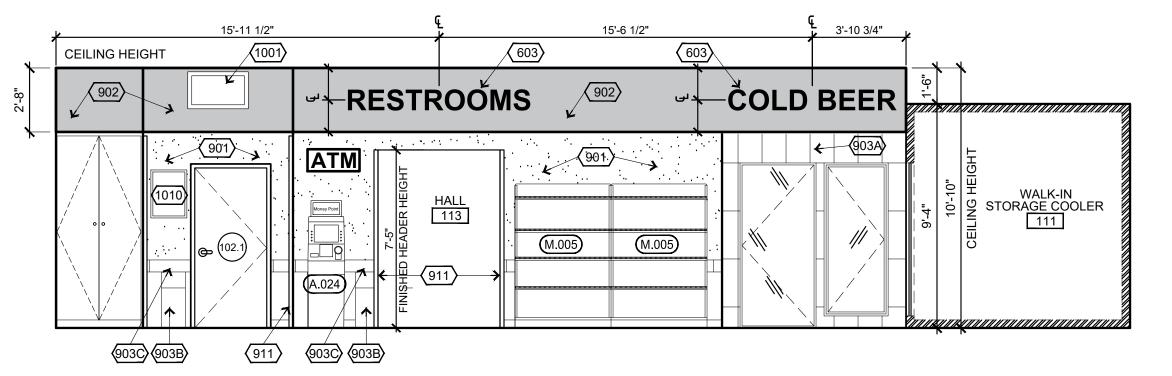


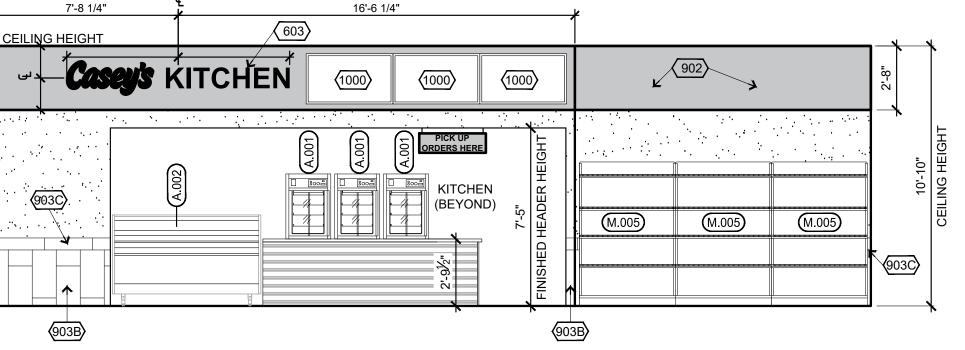
## Retail Floor 101, Plan South



Retail Floor 101, Plan North

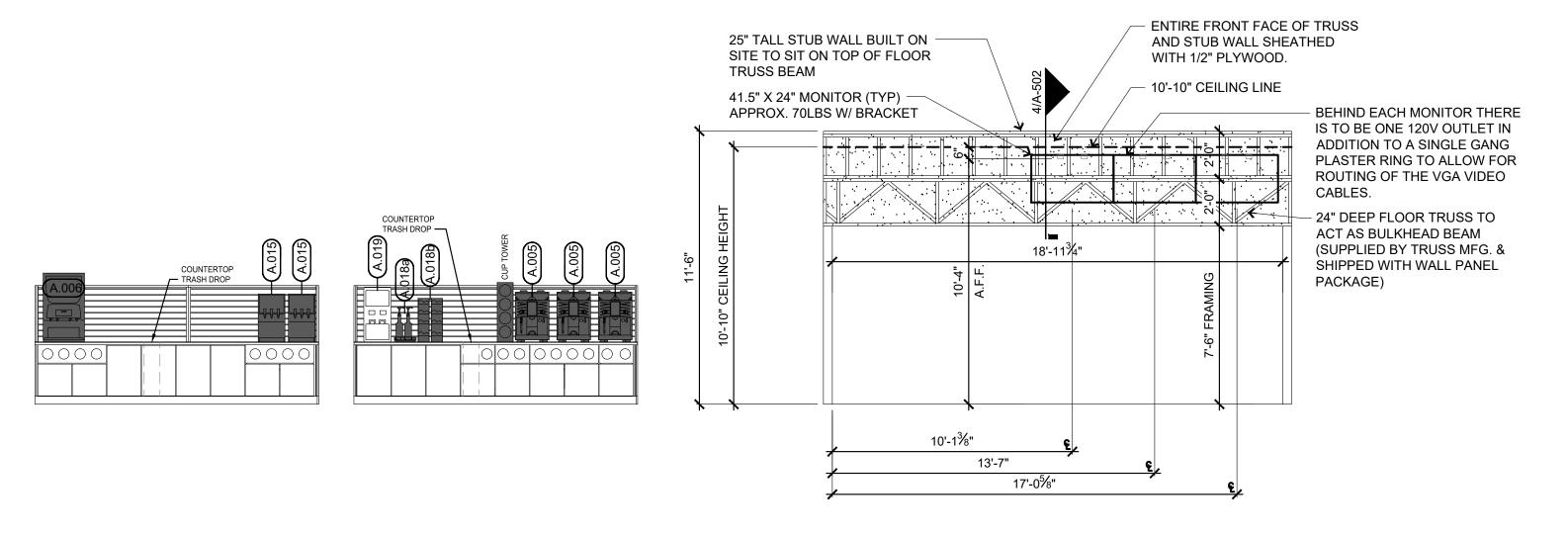
1/4" = 1'-0"

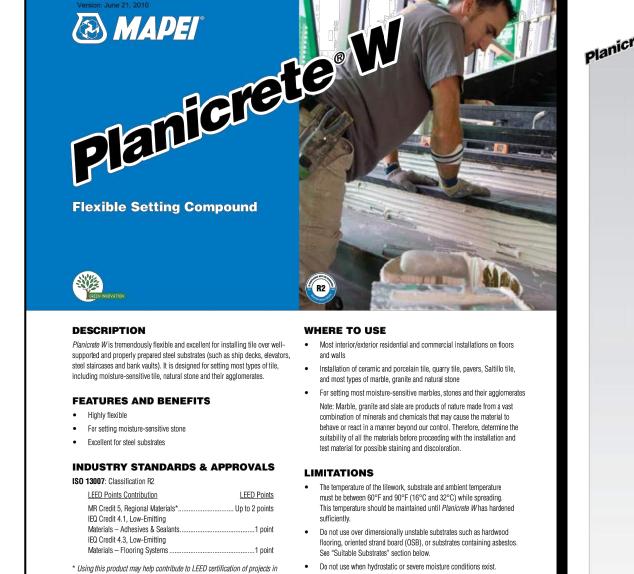




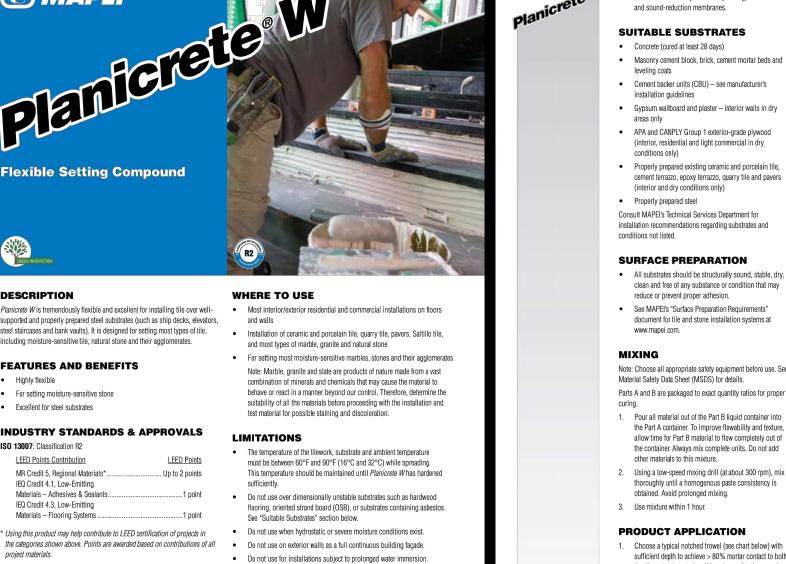
Retail Floor 101, Plan West

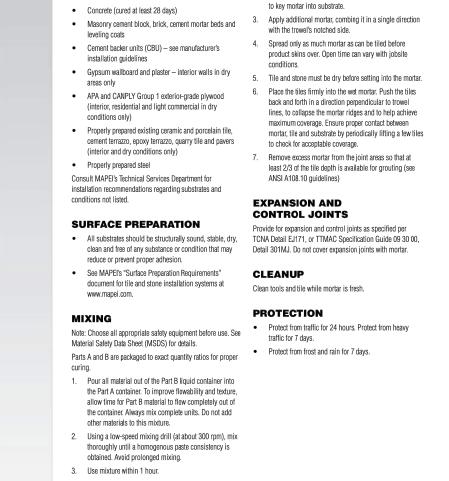
Retail Floor 101, Plan East





Do not use for the installation of white, light-colored or translucent marble,





applications. It may be necessary to back-butter tiles in

specifications and TCA Handbook guidelines.)

order to reach these requirements. (Refer to ANSI A108.5

With pressure, apply a coat by using the trowel's flat side

Do not install directly over waterproofing, crack-isolation

95% for exterior installations, commercial floor and wet

**MAPEI** 





CASEY'S GENERAL STORE 10/13/2023 MO-150 & ARBORIDGE DR **INTERIOR** LEE'S SUMMIT, MO **ELEVATIONS** 2023 - U4 - V.01 07164.057 A-401

Retail Floor 101, Hot Beverage Island Elevs.

Retail Floor 101, Plan East - Floor Type Truss

NOTE: REFER TO SHEET AQ-101 FOR ADDITIONAL EQUIPMENT INDENTIFICATION.

## **Keyed Construction Notes Cont.**

**DIVISION 6 - WOOD, PLASTICS, AND COMPOSITES** 

601 PRE-ASSEMBLIED CASEWORK WITH 1-1/2" T. CORIAN SOLID SURFACE COUNTERTOP. SET LEVEL AND ANCHOR TO FLOOR.

 $\overline{\langle 602 \rangle}$  1 1/2" T. CORIAN SOLID SURFACE WALL CAP.

 $\fbox{603}$  24" W. WOOD COUNTERTOP WITH PLAM FINISH AND ANCHORED WITH METAL WALL BRACKETS.

(604) WOOD SHELF WITH PLAM FINISH.SUPPORTED ON 1x3 WOOD WALL CLIPS.

NEW SOLID SURFACE ONE PIECE COUNTERTOP WITH INTEGRAL BOWL. SUPPLIED BY OWNER. CTOP HEIGHT = 34" A.F.F...

#### **DIVISION 8 - OPENINGS**

TLS/450 DOOR: INSTALL OVER VEEDER ROOT. DOOR SUPPLIED BY CASEWORK INSTALLER.

#### DIVISION 9 - FINISHES

5/8" USG FIBEROCK MOISTURE AND MOLD RESISTANT WITH "CASEYS GREY" PAINT FINISH. SEE FINISH SCHEDULE, A-601 FOR PAINT INFORMATION.

902 FRP BOARD. SEE FINISH SCHEDULE, A-601 FOR MORE INFORMATION

905 PROVIDE GYP-BOARD (GREEN) INTERIOR PANELS FOR TILE BACKING & PAINT FINISH. SEE FINISH SCHEDULE, A-601 FOR MORE INFORMATION.

906 MIRROR TILE PATTERN AT INSIDE CORNER OF WALLS.

909 METAL DOOR FRAMES INSTALLED PRIOR TO TILE WORK. SEE SHT A-601 FOR DOOR SCHEDULE NOTES.

#### **DIVISION 10 - SPECIALTIES**

HIGH SPEED TOUCH FREE SENSOR HAND DRYER: WALL MOUNTED SET 3'-8"
A.F.F.

DOUBLE 9" TOILET PAPER HOLDER: WALL MOUNTED 32" TO TOP, 8" IN FRONT OF WATER CLOSET TO CENTER OF DISPENSER.

FRONT OF WATER CLOSET TO CENTER OF DISPENSER.

1004
BABY CHANGING STATION: HORIZONTAL WALL-MOUNTED. COORDINATE

MOUNTING HEIGHT WITH MANUFACTURERS SPECIFICATIONS.

1-1/2"Ø STAINLESS STEEL (SATIN FINISH) GRAB BARS WITH CONCEALED ANCHORS TO WALL BLOCKING AND TOILET PARTITION PANELS. MOUNT CENTERLINE AT 34-1/2" A.F.F.. SIDE WALL GRAB BAR SHALL BE 42" LONG LOCATED 12" MAX. FROM REAR WALL AND EXTENDING 54 MIN. FROM THE REAR WALL. REAR WALL GRAB BAR SHALL BE 36" LONG AND EXTEND FROM THE CENTERLINE OF TOILET12" MIN. ON ONE SIDE AND 24" MIN. ON THE OTHER SIDE. VERTICAL GRAB BAR SHALL BE 18" TALL AND PLACED AS

(1006) SOAP DISPENSER: SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR.

INSTALL MIRROR INVERTED SO THAT THE SCREWS ARE TOWARDS THE TOP. BOTTOM EDGE OF VISIBLE PORTION OF MIRROR TO BE SET AT 40" A.F.F.

RECESSED ELECTRONIC HANDS-FREE TOWEL DISPENSER: SUPPLIED BY OWNER, MOUNT BOTTOM OF DISPENSER 3'-6" A.F.F.

COAT HOOK ON BATHROOM PARTITION DOOR. MOUNT 48" A.F.F.

#### **DIVISION 12 - FURNISHINGS**

2-DRAWER METAL FILE CABINET SUPPLIED BY OWNER.

#### **DIVISION 22 - PLUMBING**

SHOWN IN ELEVATION.

FLOOR-MOUNTED WATER CLOSETS W/ AUTOMATIC FLUSH. REQUIRED 17" TO TOP OF RIM. APPLY SEALANT AROUND FIXTURE AT JOINT WITH FLOOR. SEE PLUMBING, SHEET P-501.

install faucet in solid surface countertop. Install ada apron enclosure under vanity. See 2/ P-501 FOR DETAILS.

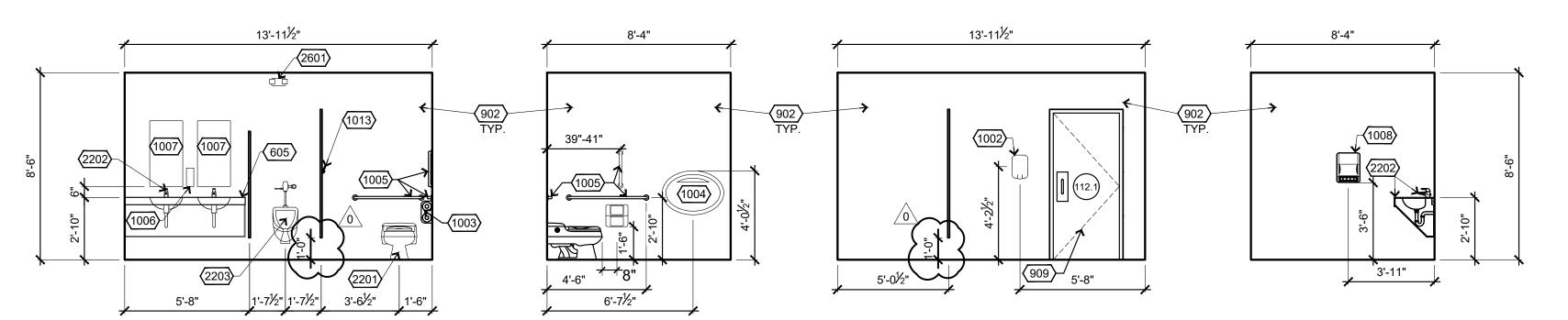
WALL-MOUNT URINAL W/ AUTOMATIC FLUSH. REQUIRED 17" TO TOP OF RIM. APPLY SEALANT AROUND FIXTURE AT JOINT WITH WALL. SEE PLUMBING, SHEET P-501

## DIVISION 25 - INTEGRATED AUTOMATION

RECESSED VEEDER ROOT TANK MONITOR SYSTEM. SPECIFICATIONS PROVIDED BY OWNER. REFER TO DETAIL, SHEET 5/E-501.

## DIVISION 26 - ELECTRICAL

(2601) EMERGENCY LIGHTING UNIT. SEE LIGHTING PLAN, SHEET E-102.

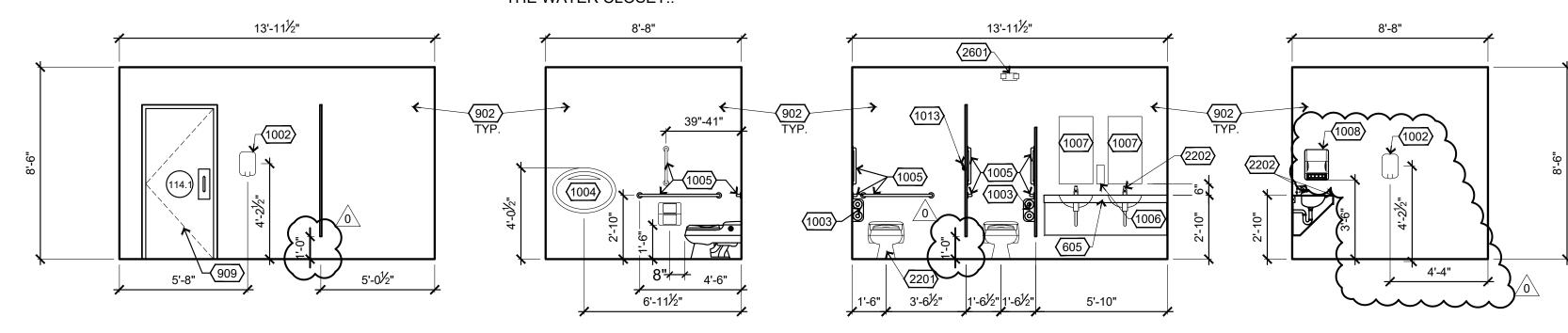


## Men's Restroom 112

1/4" = 1'-0"

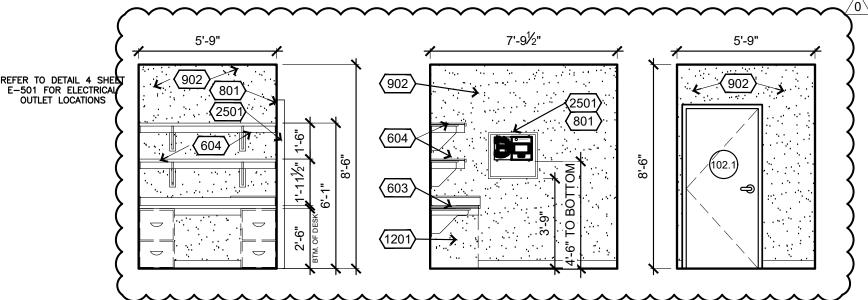
NOTE:

ADA REQUIRES CENTER OF TOILET PAPER DISPENSER TO BE BETWEEN 7" TO 9" IN FRONT OF THE FRONT EDGE OF THE WATER CLOSET..



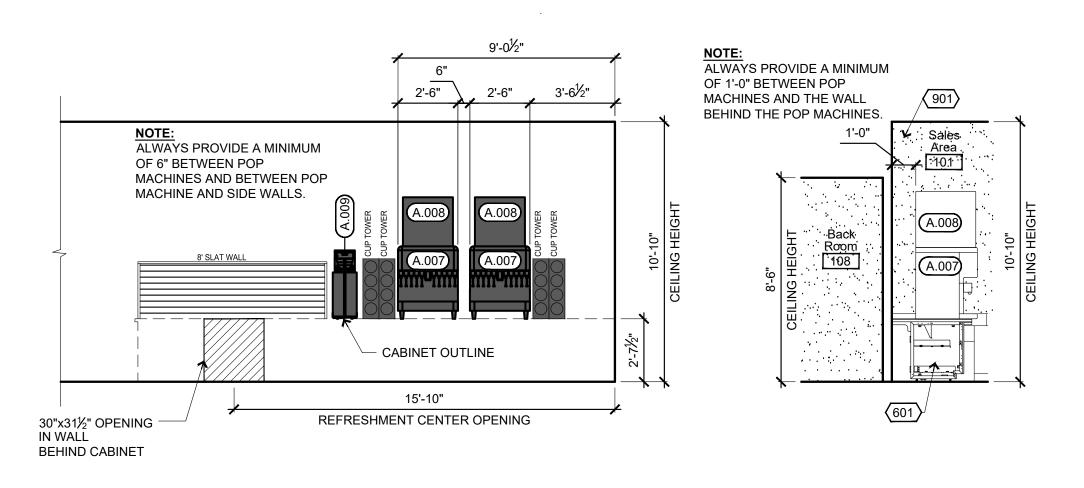
## Women's Restroom 114

1/4" = 1'-0"



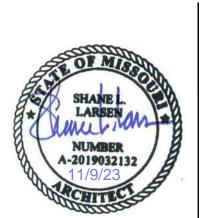
## Manager's Office 102

1/4" = 1'-0"



## Refreshment Center 101.1

1/4" = 1'-0"

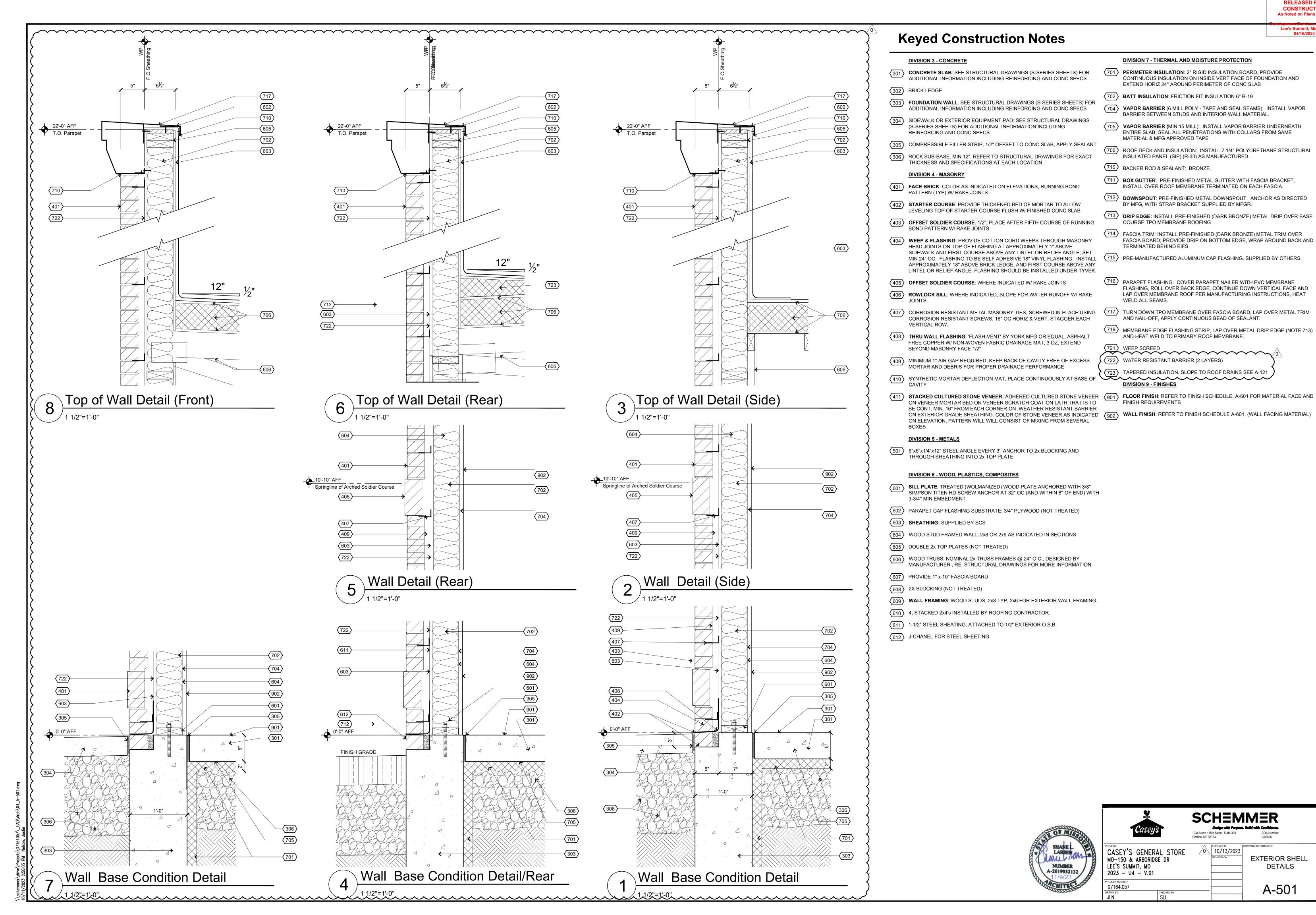




INTERIOR

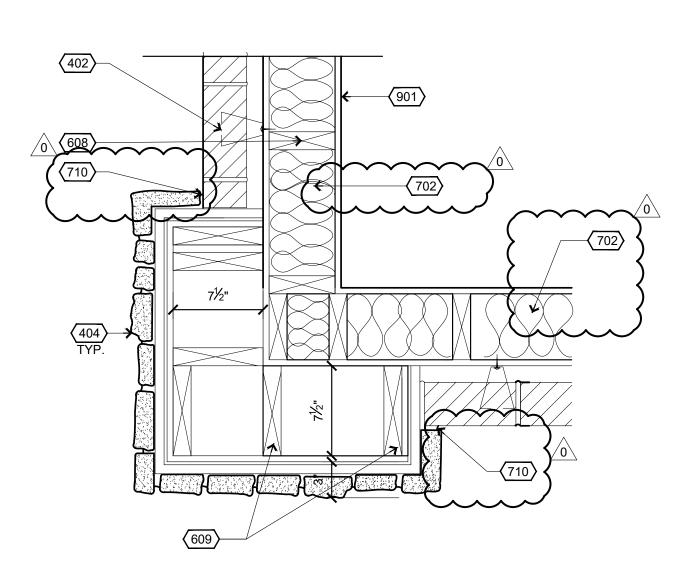
**ELEVATIONS** 

Lee's Summit,

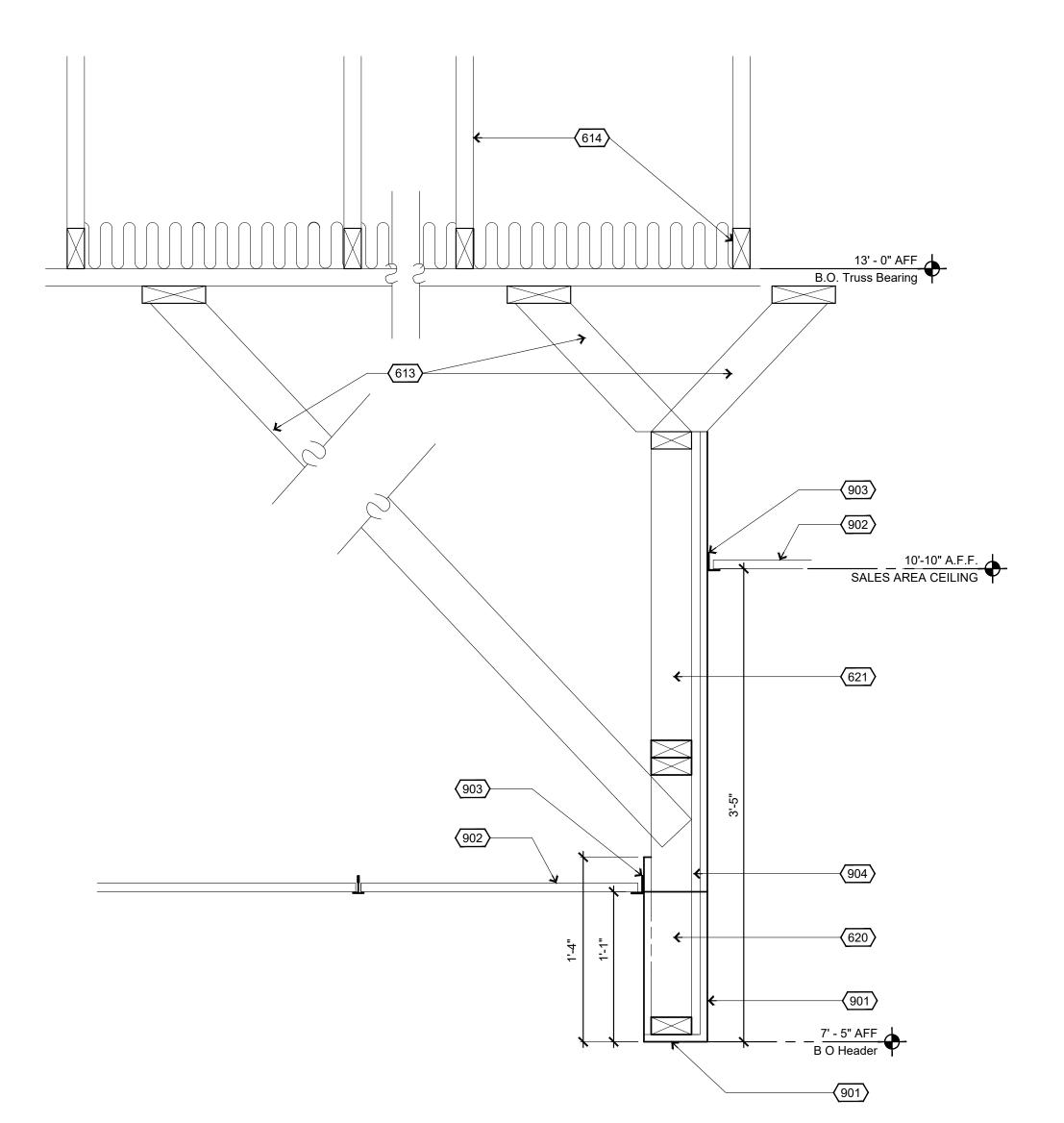


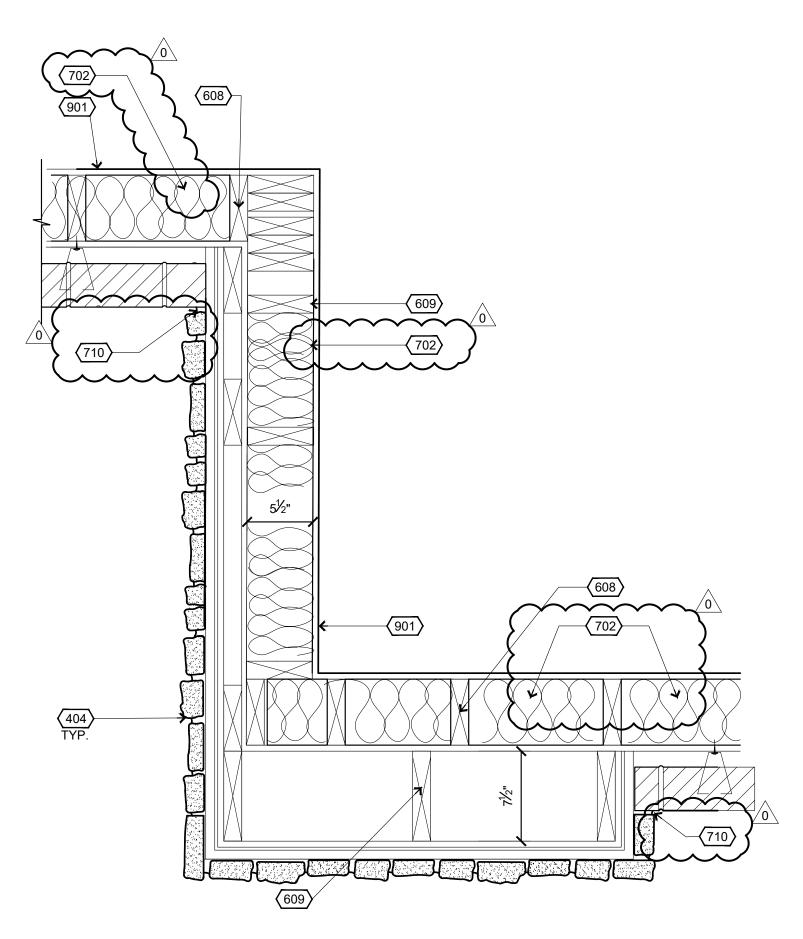
Plan Detail @ Building Back Corner

1/2"=1'-0"

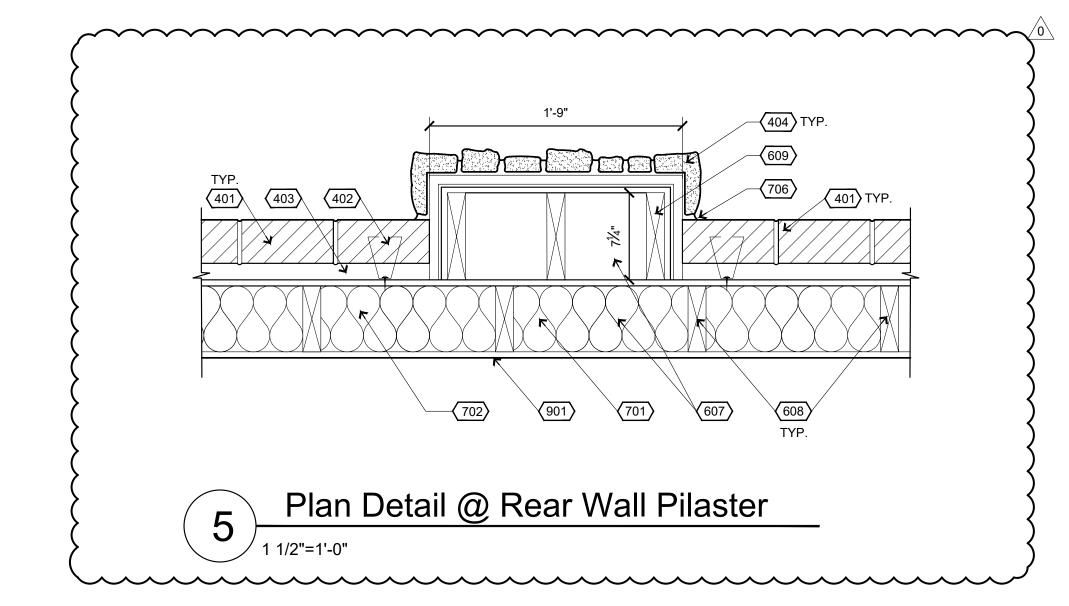


Plan Detail @ Building Corner





Plan Detail @ Building Bump Out



## **Keyed Construction Notes**

#### **DIVISION 4 - MASONRY**

- FACE BRICK: COLOR AS INDICATED ON ELEVATIONS, RUNNING BOND PATTERN (TYP) W/ RAKE JOINTS
- CORROSION RESISTANT METAL MASONRY TIES, SCREWED IN PLACE, 16" OC HORIZ & VERT, STAGGER EA COLUMN
- MINIMUM 1" AIR GAP REQUIRED, KEEP BACK OF CAVITY FREE OF EXCESS MORTAR AND DEBRIS FOR PROPER PERFORMANCE
- \$\text{404}\$ STACKED CULTURED STONE VENEER: ADHERED CULTURED STONE VENEER ON VENEER MORTAR BED ON VENEER SCRATCH COAT ON LATH THAT IS TO BE CONT. MIN. 16" FROM EACH CORNER ON WEATHER RESISTANT BARRIER ON EXTERIOR GRADE SHEATHING. COLOR OF STONE VENEER AS INDICATED ON ELEVATION, PATTERN WILL WILL CONSIST OF MIXING FROM SEVERAL BOXES

#### **DIVISION 6 - WOOD, PLASTICS, COMPOSITES**

- **SILL PLATE**: TREATED (WOLMANIZED) WOOD PLATE SHOT TO CONC SLAB W/ 2"X1/2" PIN, 24" OC; SIZE EITHER 2x4 OR 2x6 PER LOCATION, RE: PLANS
- WALL FRAMING: WOOD STUDS, 2x8 TYP, 2x6 FOR EXTERIOR WALL
- PROVIDE 2x8 STUD WALL TO FRAME WALL BUMP ON ENDS OF FRONT WALL EXTENSION AND FRONT CORNERS.
- **BRACING**: 2X4 WOOD FRAMING, PROVIDE KICKER BRACES TO KEEP TRUSS BEAM VERTICAL.
- WOOD TRUSS: NOM 2X TRUSS FRAMES @ 24" OC, DESIGNED BY MFG
- 24" TALL 4X2 FLOOR TRUSS STYLE TRUSS BEAM TO SPAN FROM MANAGER'S OFFICE WALL ACROSS DELI AREA TO FRONT WALL OF PROVIDE 3  $\frac{1}{2}$ " POCKETS @ 7'-5  $\frac{1}{2}$ " A.F.F. IN BOTH WALLS FOR TRUSS TO
- 2X4 STUD WALL FRAMED BY CONTRACTOR. SUPPORTED BY FLOOR TRUSS
- **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**
- BATT INSULATION: FRICTION FIT INSULATION 6" R-19
- (710) BACKER ROD & SEALANT: BRONZE.
- DIVISION 9 FINISHES
  - WALL FINISH: REFER TO FINISH SCHEDULE A-601 FOR FACE MATERIAL &
- LAY-IN CEILING PANELS: REFER TO CEILING SCHEDULE A-111
- L-CHANNEL CEILING EDGE
- $\frac{3}{4}$ " PLYWOOD ON FACE OF TRUSS BEAM AND EXTENTION WALL (SALES AREA SIDE ONLY) USED AS BACKING FOR DIGITAL MENU BOARD BRACKETS. REFER TO DETAIL 4 ON A-401.





CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01 07164.057

DETAILS A-502

1 1/2"=1'-0"

Kitchen Bulkhead Detail

## Lee's Summit, M 04/16/2024

## Door Schedule

	ROUGH OPENING	DOOR						FRAME			HARDWARE		
No.		Size	Thick'	Тур	e Material	Finish		Type [W.]	Material	Finish	Components	Key Side	NOTES
101.1 (FRONT)	6'-8"	PR 3'-0" x 7'-0"			ALUMINUM	FACTORY	ACTORY		ALUMINUM	FACTORY	OP, C, PH, S		⟨5⟩ ⟨7⟩
102.1 (MANAGERS OFFICE)	3'-4"	3'-0" x 6'-8" (3068)	1 3/4"	Α	SC WOOD	PLAM	LH	1 [4 5/8"]	STEEL BREAK DOWN	FACTORY	SH, LS, WS, K		<u>(1)</u> <u>(4)</u> <u>(7)(8)</u>
104.1 (EXTERIOR STORAGE ROOM)	3'-10"	3'-6" x 7'-0" (3670)	1 3/4"	В	STEEL	PAINT	LH	1 [10 1/4"]	HOLLOW METAL	PAINT	H/BB, CL, K, MWS, LL		2 4 6 7 8
104.2 (STORAGE ROOM)	3'-4"	3'-0" x 6'-8" (3068)	1 3/4"	Α	SC WOOD	PLAM	RH	1 [4 1/2"]	STEEL BREAK DOWN	FACTORY	SH, LS, WS, K		<u>(1)</u> <u>(4)</u> <u>(7)(8)</u>
107.1 (UTILITY ROOM)	3'-4"	3'-0" x 6'-8" (3068)	1 3/4"	Α	SC WOOD	PLAM	LH	1 [4 1/2"]	STEEL BREAK DOWN	FACTORY	SH, LS, WS, K		1 4 7 8
108.1 (BACK ROOM)	3'-4"	3'-0" x 6'-8" (3068)	1"	С	ABS PLASTIC	FACTORY		1 [6 1/2"]	STEEL BREAK DOWN	FACTORY	HARDWARE BY DOOR SUPPLIER		(3) (7)(8)
112.1 (MEN'S RESTROOM)	3'-4"	3'-0" x 6'-8" (3068)	1 3/4"	Α	SC WOOD	PLAM	LH	1 [4 3/4"]	STEEL BREAK DOWN	FACTORY	PP, CL, K, WS, FS		<u>(1)</u> <u>(4)</u> <u>(7)(8)</u>
113.1 (END-EXTERIOR)	3'-10"	3'-6" x 7'-0" (3670)	1 3/4"	В	STEEL	PAINT	RH	1 [10 1/4"]	HOLLOW METAL	PAINT	H/BB, CL, PB, K, MWS		2 4 6
114.1 (WOMEN'S RESTROOM)	3'-4"	3'-0" x 6'-8" (3068)	1 3/4"	Α	SC WOOD	PLAM	RH	1 [4 3/4"]	STEEL BREAK DOWN	FACTORY	PP, CL, K, WS, FS		1 4 7 8

## Room Finish Schedule

NO	. NAME		FL	OOF	₹			ВА	SE			WA	ALLS	3					GENERAL REMARKS
												FIN	IISH			MA	TEF	RIAL	
<u> </u>	ALL WALLS	SV	CT1	VCT	SC	NONE	NOTES	RB	CT2	NONE	NOTES	۵	FRP	CT2	NONE	GB-WET	OSB	NOTES	
101	Sales Area		•					•				•		•		•			
102	Manager's Office		•					•					•			•	•	₩3>	
103	Kitchen			•				•					•			•	•	⟨W3⟩	1
104	Storage		•					•					•			•	•	⟨W3⟩	
105	Walk-In Freezer With Manufactured Floor						F2			•	(B1)				•				
106	Walk-In Cooler Without Manufactured Floor	•								•	(B1)				•				
107	Utility Room		•					•					•			•	•	⟨W3⟩	
108	Back Room		•					•					•			•	•	⟨W3⟩	
109	Walk-In Cooler Without Manufactured Floor	•								•	(B1)				•			<b>₩1</b> >	
110	Walk-In Freezer With Manufactured Floor						(F2)			•	(B1)				•			<b>₩</b> 1	
111	Walk-In Stor. Cooler Without Mnfctrd Floor	•									(B1)				•			<b>₩</b> 1	
112	Men's Restroom		•						•				•				•	₩4 <b>〉</b>	
113	Hall		•						•			•		•		•		₩4 <b>〉</b>	
114	Women's Restroom		•						•				•					₩4 <b>&gt;</b>	

## **General Door Schedule Notes**

- SEE SHEET A-101 FOR FLOOR PLAN AND DOOR LOCATIONS
- BRONZE CAULK APPLIED TO ALL EXTERIOR DOORS
- INSTALL DOUBLE WALL STUDS AT ALL DOOR JAMBS

## **Door Schedule Notes**

- 1 PLASTIC LAMINATE COATING WOOD DOORS: PREMIUM GRADE, 7-PLY SOLID PARTICLEBOARD CORE, SOLID WOOD EDGES, FOG GREY 961-58, LIFETIME
- (2) HOLLOW METAL DOORS: 1 3/4" x 18 GA.. FULL FLUSH PANEL. PRIME PAINT COAT. FACTORY PAINTED, DARK BRONZE KAWNEER #40.
- (3) HARD PLASTIC DOORS: 1" x 18 GA. WITH SOLID WOOD CORE. MEDIUM TRAFFIC DOOR WITH DOUBLE-ACTING SWING. 9" x 14" WINDOW, DOOR 108.1 ONLY:
- (4) STEEL BREAKDOWN FRAMES: 2" x 16 GA.. SNAP ON TRIM BOTH SIDES. PRIME
- PAINT COAT. TWO [2] FINISH PAINT COATS, DARK BRONZE KAWNEER #40. (5) ALUMINUM/GLASS DOORS: KAWNEER 190 NARROW STILE ENTRANCE WITH 451 TRANSOM FRAME. #40 DARK BRONZE ANODIZED FINISH WITH 1" BRONZE TINTED
- 6 CONTRACTOR TO INSTALL, CLEAN, AND INSULATE FRAMES. [EXTERIOR &

INSULATED GLASS. DOORS TO HAVE 10" KICK PLATE.

- 7 TOP HINGE TO BE ANCHORED INTO STUD WITH LONG SCREWS. SUPPLIED BY OWNER, IF APPLICABLE
- (8) ADD 5/8" TO ROUGH OPENING FOR DOOR TO ALLOW FOR TILE FLOOR FINISH. HOLD JAMBS 5/8" OFF CONC. SUB-FLOOR AS REQ'D. FOR TILE INSTALLATION.

## **Hardware Key and Notes:**

- AG ACOUSTIC GASKETS [HEAD/JAMB]
- RIM CYLINDER CLOSER, SURFACE MOUNTED (VERIFY SIDE)
- H/BB MORTISE HINGES, 4-1/2 x 4-1/2, BALL BEARING, 2 PAIR PER DOOR KICK PLATE
- LOCKSET, COMMERCIAL GRADE [SCHLAGE]
- MAGNETIC WEATHER STRIPPING, SWEEP OFFSET PIVOTS
- PANIC BAR @ 38" AFF
- KAWNEER #C-09 PULL HANDLES PASSAGE LOCK PULL/PULL PLATE AND PUSH PLATE
- REESE 967D-36" SWEEP SPRING HINGES
- WALL STOP
- FLOOR STOP
- LOCKSET LEVER TYPE

REVIEW/APPROVAL

PROVIDE MASTER KEY FOR LOCKSETS AND COORDINATE KEYING WITH OWNER.

SUBMIT HARDWARE SCHEDULE AND PRODUCT DATA TO OWNER FOR

## **General Finishes Notes**

- FLOORING PREP: GENERAL CONTRACTOR TO CHECK CONCRETE FLOOR SLAB FOR MOISTURE TWO WEEKS PRIOR TO FLOOR **COVERINGS DATE**
- 1.1 MOISTURE TESTING A MAT MOISTURE TEST IS AN EFFICIENT MOISTURE TESTING METHOD FOR CONCRETE SLAB. SIMPLY PLACE A 18"x18" HEAVY, CLEAR GAUGE POLYETHYLENE SHEETING ON THE FLOOR IN AN AREA THAT IS LIKELY TO BE WET (TEST LARGE SITES IN SEVERAL LOCATIONS). TAPE THE PERIMETER OF THE PIECE SECURELY SO THAT NO AIR CAN PENETRATE AND LEAVE IN PLACE FOR 24 HOURS. THEN REMOVE THE PIECE(S) AND EXAMINE THE FACE. IF WATER DROPS ARE PRESENT, EXCESSIVE MOISTURE EXISTS AND THE CONCRETE MUST DRY LONGER. MOISTURE TESTS SUCH AS OHMMETER RESISTANCE, CALCIUM CHLORIDE, ETC., ARE ALSO
- ACCEPTABLE. 1.2 ALKALI TESTING - AFTER MOISTURE TESTING, IT IS MANDATORY TO TEST FOR ALKALINITY. USE PH STRIPS W/DISTILLED WATER 5-9 SCALE ARE ACCEPTED. NOT TO BE UNDER 5 OR OVER 9. TO NEUTRALIZE, MOP THE SURFACE OF THE CONCRETE WITH A 10% MURACTIC ACID SOLUTION. ALLOW SOLUTION TO DRY COMPLETELY. DO NOT RINSE CONCRETE AFTER APPLYING THE SOLUTION.
- 1.3 BOTH THE GENERAL AND FLOORING CONTRACTOR TO COORDINATE THE CONDITION OF THE CONCRETE FLOOR SLAB TO DETERMINE IT'S SUITABILITY AS A SUBSTRATE FOR FLOOR MATERIAL TO BE INSTALLED. 1.4 FLOORING CONTRACTOR IS TO TAKE ALL APPROPRIATE TESTS BEFORE LAYING TILE. FLOOR IS TO BE DRY AND FREE FROM CONTAMINANTS. THE APPLIED ADHESIVE MUST DEVELOP "LEGS" OR
- TACK PRIOR TO APPLYING TILE. 1.5 48 - 72 HOURS BEFORE INSTALLATION, THE TEMPERATURE MUST BE 70° OR ABOVE UNTIL STORE OPENING.
- FLOOR CARE PROCEDURE: AFTER THE FLOOR TILE IS LAID, ALLOW A MINIMUM OF 72 HOURS DRYING TIME FOR THE GLUE TO CURE. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO SEE NO ONE ENTERS THE STORE DURING THE 72 HOUR DRYING TIME
- 2.1 DUST MOP CLEAN THE ENTIRE FLOOR. 2.2 AFTER 72 HOURS, CONTRACTOR IS TO COVER EVERY INCH OF ENTIRE FLOOR IN ALL ROOMS, EXCEPT UTILITY ROOM. COVER WITH ARMSTRONG PAPER AND TAPING THE SEAMS, DO NOT TAPE ANY EDGES! HIGH TRAFFIC AREAS SHOULD BE DOUBLE THICKNESS, WORN AREAS SHOULD BE REPAIRED AS NEEDED.
- 2.3 CONTRACTOR WILL CUT (BE CAREFUL) AND REMOVE PAPER TO INSTALL CABINETS, EQUIPMENT, AMCO WIRE SHEVLING, STAINLESS STEEL TABLES. NO PAPER SHOULD BE LEFT UNDER ANY SET
- 2.4 CONTRACTOR SHALL HAVE A GARBAGE DUMPSTER AVAILABLE ACCORDING TO CASEY'S SPECIFICATIONS MANUAL "GENERAL REQUIREMENTS, PAGE 1-6, SECTION 5, ITEM "E". 2.5 CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ALL REMAINING
- MATERIAL SUPPLIED AND SHIPPED BY CASEY'S ON FIRST LOAD: 3.1 5-ROLLS ARMSTRONG (S-153) SCRIBING FELT PAPER 36" x 50 YARDS

PAPER PRIOR TO CASEY'S STORE SET INSTALLING LOZIER SHELVING.

3.2 6-ROLLS NATURAL (CP083) CREPE MASKING TAPE 1-1/2" x 60 YARDS

EACH.

## 4 FIBERGLASS REINFORCED PLASTIC (FRP) CARE AND PROCEDURE CONTRACTOR TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND

- BOARD (OSB) AND IS NFS AND USDA APPROVED. 4.1 PANELS SHALL BE STORED ON A FLAT DRY SOLID SURFACE. 4.2 LAY HORIZONTAL AT LEAST 24 HOURS PRIOR TO INSTALLATION.
- 4.3 ACCLIMATE TO ROOM TEMPERATURE AND HUMIDITY. 4.4 ALLOW MINIMUM 1/8" EXPANSION GAP BETWEEN PANELS AND
- MOLDINGS. 4.5 VINYL MOLDINGS AVAILABLE; INSIDE CORNER, DIVIDER STRIPS, END
- CAPS, AND OUTSIDE CORNERS. 4.6 APPLY SILICONE SEALANT BETWEEN MOLDINGS AND PANEL.

SPECIFICATIONS. FRP IS LAMINATED TO 1/2" ORIENTATED STRAND

- 4.7 PROPER ADHESIVE REQUIRED ON ALL SUB-SURFACES THAT PANELS APPLY TOO.
- 4.8 INSURE THAT ALL WALL SURFACES AND STUDS ARE CLEAN, DRY, SMOOTH, LEVEL, STRAIGHT AND PLUMB.
- 4.9 ALL SUB-SURFACES JOINTS TO BE STAGGERED JOINTS W/FRP COVERINGS.
- 4.10 NOTICE: DIVIDER MOLDINGS NEED TO BE TRIMMED 3 FT. ABOVE FLOOR IN KITCHEN ONLY AT THE 14 FT. EXHAUST HOOD AREA. TO ALLOW FOR THE 18"x7'x7'x18" S/S PANELS TO BE BOLTED AGAINST
- 4.11 ALL MOLDINGS NEED TO BE TRIMMED TO ALLOW CEILING CHANNEL FLOOR BASE, SINKS, TRIM, BACK SPLASHED AND ANY OTHER ITEMS TO LAY FLAT AGAINST WALL PANEL.
- CEILING WIRE SUPPORTS: DO NOT INSTALL CEILING WIRE SUPPORT AT AREAS OF EQUIPMENT OR SERVICE DOORS.
- 6 SEAL FLOOR AT WALK-INS PRIOR TO INSTALLING WALL BASE.
- 7 MOP FLOOR BASIN TO BE INSTALLED ON TOP OF TILE AND CAULKED.
- 8 CONTRACTOR IS TO SUPPLY & INSTALL TWO COATS OF OF CLEAR SEALER IN UTILITY ROOM (ONLY). (USE SOY SEAL MANUF. APPLICATION/INSTALLATION SPECIFICATIONS.)
- 9 CLASS "C" FIRE RATED, FLAME SPREAD 200 OR LESS, SMOKE DEVELOPED 450 OR LESS. GLASBORD-P.
- 10 SAW CUTS TO BE CLEANED AND READY FOR FILL.

## **Room Finish Schedule Notes**

#### **Floors**

(F2) MANUFACTURED FLOOR: INSULATED FLOORS SUPPLIED BY COOLER/FREEZER EQUIPMENT MANUFACTURER, NO OTHER FINISH REQUIRED THIS AREA

(B1) WALL/FLOOR JUNCTION: SEALANT (CAULK) BASE CONDITION INSIDE ASSEMBLED FREEZER/COOLER ALONG ENTIRE PERIMETER

- (W1) COOLER/FREEZER FACE PANELS: USE GYP-BOARD (GREEN) INTERIOR PANELS ON FACING OF COOLER/FREEZER IN SALES AREA.
- (W3) COMPOSITE PANEL: FRP WALL FINISH IS FACTORY LAMINATED TO 1/2" OSB WALL PANELS. CONTRACTOR TO FINISH ALL JOINTS AND MAKE ALL FIELD CUTS
- ACCORDING TO MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS PROVIDE GYP-BOARD (GREEN) INTERIOR PANELS FOR TILE BACKING & PAINT

#### General Remarks

1 NON-COMBUSTIBLE WALL: INSTALL STEEL STUDS WITH 5/8" GYP-BOARD (GREEN) INTERIOR PANELS TO KITCHEN SIDE OF THE WALL. HEIGHT = 9'-0". ALL FRP COVERINGS WILL BE CUT TO FIT NEXT TO S/S PANELS AROUND KITCHEN

## **Crack Isolation Specification**

SURFACE PREPARATION: MUST BE CLEANED OF ALL DUST & DEBRIS, AND

## **General Notes**

- 1. SEE SHEET A-101 FOR FLOOR PLAN.
- 2. SEE SHEET A-111 FOR REFLECTED CEILING PLAN AND CEILING HEIGHT DIMENSIONS AND CEILING MATERIAL LOCATIONS.
- 3. SEE MECHANICAL AND ELECTRICAL SHEETS FOR RELATED WORK
- 4. CONTRACTOR TO FURNISH ALL MATERIALS FOR INTERIOR PARTITION

## **Finish Materials Legend**

#### Floors

CT1 CERAMIC TILE: 12" x 24" DAL-TILE #SA07 (META DARK GRAY). THIN SET INSTALLATION, ON CRACK ISOLATION BARRIER, SEE SPECIFICATION ON SHEET A-701. 1/4" GROUT JOINTS. GROUT: #47 (CHARCOAL)

#### VCT TILE AND GLUE SUPPLIED BY CASEY'S

**VINYL TILE: ARMSTRONG TILE.** PRODUCT CODE ARM 51908 PEWTER. 12"x12"

#### SC SEALED CONCRETE

SV SHEET VINYL: 'PROTECT-ALL' COMMERCIAL FLOORING SYSTEM

**RB RUBBER BASE:** 4" H. x 1/8" BLACK W/ TOE CT2 CERAMIC WALL TILE: SEE WALL FINISH BELOW

P PAINT: FINISH ALL WALL JOINTS AND PATCH ALL SURFACE IRREGULARITIES TO ACHEIVE A LEVEL-5 SURFACE FINISH; APPLY A PRIME COAT AND TWO [2] FINISH COATS, SMOOTH FINISH OR AS SPECIFIED BY

#### CT2 CERAMIC WALL TILE: SEE WALL FINISH BELOW

## COLOR: CASEY'S GRAY

- SHERWIN WILLIAMS (CUSTOM COLOR FORMULA MATCH)
- INTERIOR EGGSHELL
- EXTRA WHITE TINT BASE 5 GALLON FORMULA

OZ 32 64 128 CCE

2 9 1 1 Deep Gold

#### COLOR: CASEY'S NEW RED 2020

- SHERWIN-WILLIAMS (CUSTOM COLOR FORMULA MATCH) INTERIOR SEMI-GLOSS LATEX - DURATION ARCHITECTURAL LATEX 1 GALLON MIX - K33T00254
- ULTRADEEP 650406333 OZ 32 64 128
- R4-NEW RED 14 -- -- --Y1-YELLOW-- 5 -- --
- FRP FIBERGLASS REINFORCED PLASTIC: LAMINATED TO 1/2" ORIENTATED STRAND BOARD (OSB) MFG BY KEMLITE. NAIL TOP AND BOTTOM ONLY DURING INSTALLATION. NFS/USDA APPROVED. (VERIFY COLOR)
- CT2 CERAMIC WALL TILE: {FRONT WALL} IRONCRAFT IC13 CHARCOAL GRAY 12"x24" W/ 1/3 OFFSET (DALTILE PART #IC1312241PK) - INSTALL: WAINSCOT W/ WAINSCOTING TOP BORDER KIMONA SILK P327 PANDA BLACK 6"x24" (DALTILE PART #P32712241PK), CUT FROM 12"x24", ON TOP W/ SCHLUTER. TOP OF TRIM HEIGHT 2'-10". GROUT: #47 CHARCOAL. {COOLER WALLS} KIMONA SILK P327 PANDA BLACK 12"x24" (DALTILE PART #P32712241PK) - INSTALL: STRAIGHT VERTICAL 8'-2" AFF GROUT: #47 CHARCOAL. {HALL WALLS} IRONCRAFT IC13 CHARCOAL GRAY 12"x24" W/ 1/3 OFFSET (DALTILE PART #IC1312241PK) - INSTALL: WAINSCOT W/ WAINSCOTING TOP BORDER KIMONA SILK P327 PANDA BLACK 6"x24" (DALTILE PART #P32712241PK), CUT FROM 12"x24", ON TOP W/ SCHLUTER. TOP OF TRIM HEIGHT 2'-10". GROUT: #47 CHARCOAL. INSTALL OVER GB-WET. SEE INTERIOR WALL ELEVATIONS SHEET A-401 FOR ADDITIONAL INFORMATION REGARDING LIMITS OF INSTALLATION. MAPCI EPOXY GROUT TO BE USED ON MEN'S RESTROOM FLOOR AND URINAL WALLS. MAPCI EPOXY KIT #9999623831

## **Wall Materials**

GB-WET: USG GYP-BOARD (GREEN) INTERIOR PANEL, MOISTURE AND MOLD RESISTANT, 5/8" CORE THICKNESS, FOR USE AS BACKING FOR PAINT FINISH WALLS & CERAMIC TILE. FINISHED PAINTED WALL TEXTURE TO BE SMOOTH. THROUGHOUT ALL EXTERIOR WALLS.

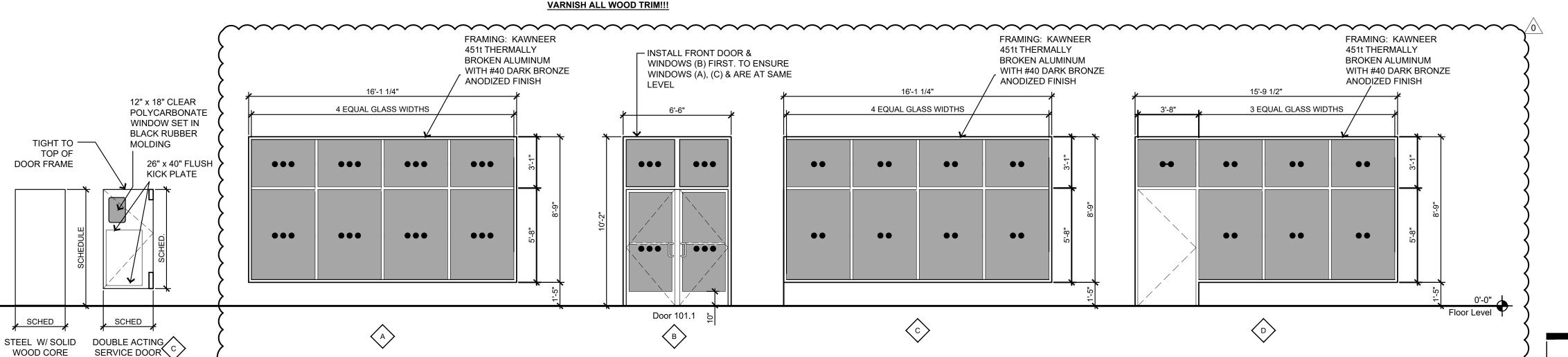
OSB: KEMLITE LAMINATED FRP TO 1/2" OSB SUBSTRATE (KEMPLY), INSTALL AND FINISH PER MANUFACTURERS WRITTEN INSTRUCTIONS; SEE FRP WALL FINISH FOR MORE INFORMATION.

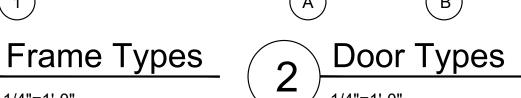




1044 North 115th Street, Suite 300

10/13/2023 CASEY'S GENERAL STORE DOOR, WINDOW & MO-150 & ARBORIDGE DR **ROOM FINISH** 2023 - U4 - V.01 SCHEDULES





SCHED

SOLID CORE

WOOD DOOR

" 1 DOOR W 1 2"

KNOCK-DOWN HOLLOW

METAL FRAME

Window Frame Elevations

SURFACE.

SPANDREL GLASS WITH LOW-E COATING ON THE #3 SURFACE.

● 1" BRONZE TINTED INSULATED TEMPERED

GLASS WITH LOW-E COATING ON THE #3

Glazing Key - All Windows

●●● 1" BRONZE TINTED INSULATED TEMPERED LEE'S SUMMIT, MO PROJECT NUMBER 07164.057

JLN

A-601

Ceramic Tile Flooring Plan



SURFACE PREPARATION All suitable substrates must be smooth, structurally sound and free of any membranes when applied over cracks, coves and corners and around drains on residential and commercial applications. Fiberglass Mesh can be cut to size with substance that could prevent adhesion. scissors or a razor knife, and has excellent compatibility with all MAPEI cement- or

 Do not use chemical means (acid etching or stripping) to prepare approved epoxy-based mortars. substrates. Use mechanical methods only. To remove any bond-inhibiting materials, concrete substrates should be mechanically cleaned and prepared by diamond-cup grinding or other engineer-approved methods to obtain the International Concrete Repair Institute (ICRI) **FEATURES AND BENEFITS**  Compatible with MAPEI's Mapelastic, Mapelastic 315, Mapelastic HPG and oncrete surface profile (CSP) of #2. When concrete requires more mechanical Mapelastic Smart waterproofing membranes and Mapeband™ accessories preparation, the profile will typically increase. In such cases, the surface can Fully compatible with MAPEI mortars and grouts for complete system protection

> See TDSs of individual waterproofing products for other important surface preparation instructions: For other details, see MAPEI's "Surface Preparation Requirements document for tile and stone installation systems at www.maper.

be made smooth by applying coats of a MAPEI polymer-modified tile-setting

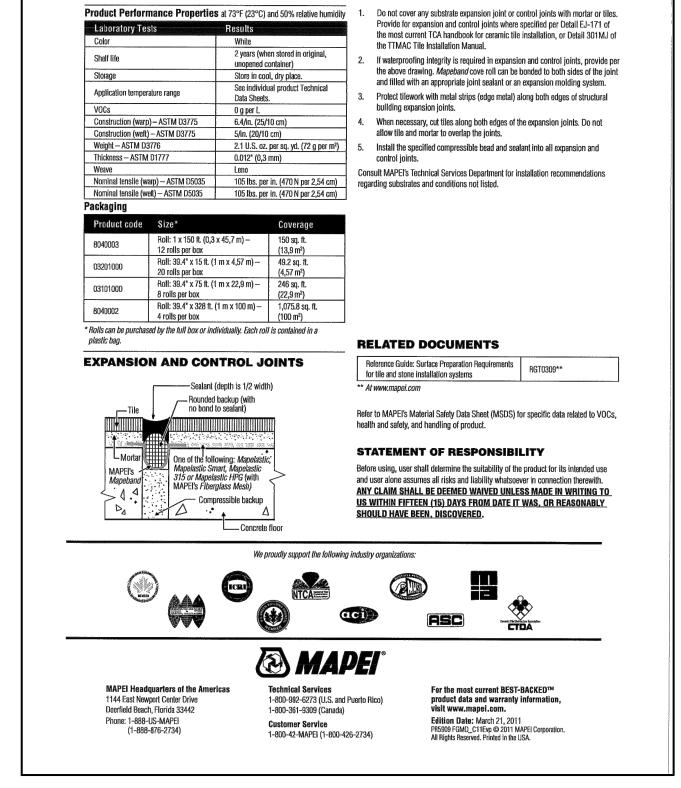
WHERE TO USE See MAPEI's individual Technical Data Sheets (TDSs) for Mapelastic, Mapelastic 315. Mapelastic HPG and Mapelastic Smart for specific uses: PRODUCT APPLICATION

**LIMITATIONS** See MAPEI's individual TDSs for Mapelastic, Mapelastic 315, Mapelastic HPG and Mapelastic Smart for specific limitations.

Fast to install: ready to use, and easy to cut with scissors or razor knife

Durable, flexible and lays flat, making it easy to embed

See MAPE's individual TDSs for Mapelastic, Mapelastic 315, Mapelastic HPG and Mapelastic Smart for specific application instructions. 





**INDUSTRY STANDARDS AND APPROVALS** 

ASTM C627 (Robinson): Extra heavy service rating

ANSI A118.10: Exceeds

## **General Notes**

PLAN

MAPELASTIC/FIBERGLASS MESH FULL COVERAGE ON CRACKS AND SAWCUTS EXCEPT BACKROOM AND UTILITY ROOM. JUST TREAT SAW CUTS IN THESE AREAS.

2. ALL FLOOR TILE SET WITH MEDIUM BED THIN SET WITH 1/2" TROWEL

3. REFER TO PAGE A-601 FOR OTHER ROOM FINISH INFORMATION.

4. FILL SAW CUTS WITH SELF LEVELING CAULK BEFORE MAPELASTIC/FIBERGLASS MESH IS INSTALLED.

5. CERAMIC TILE. TILE SUPPLIED BY CASEY'S GENERAL STORES. ORDERED AND INSTALLED BY FLOORING CONTRACTOR. TILE SPECIFICATIONS SUPPLIED BY OWNER.

6. MAPCI EPOXY GROUT TO BE USED ON THE MEN'S RESTROOM FLOOR AND THE URINAL WALL. MAPCI EPOXY KIT #9999623831

## **Construction Notes**

## **DIVISION 11 - EQUIPMENT**

(1100) COOLER PACKAGES WITH PROTECT-ALL VINYL FLOORING.

(1101) FREEZER PACKAGES WITH MANUFACTURER METAL FLOOR.

4'-10"x6'-0" RECESSED ENTRY WAY MAT TO BE INSTALLED 6" FROM THRESHOLD OF FRONT ENTRY DOORS. RECESSED INTO FLOOR TILE.

## **DIVISION 9 - FINISHES**

901 USE SCHLUTER AE 100 FOR ALL EXTERIOR DOORS, ELECTRICAL ROOM AROUND CONDUIT CHASE AND THE ENTRY MAT.

902 USE SCHLUTER AEU 100 FOR ALL INTERIOR ENTRY WAYS. BUTT TIGHT AGAINST THRESHOLD TYP. SEALANT AS REQ'D.

903 MAPCI EPOXY GROUT TO BE USED ON THE MEN'S RESTROOM FLOOR AND THE URINAL WALL. MAPCI EPOXY KIT #9999623831

## **Finish Materials Legend**

## **Floors**

Do not apply directly over gypsum-based patching or leveling compounds

• Do not apply directly over substrates consisting of plank wood flooring,

presswood, particleboard, chipboard, oriented strand board (OSB),

pressure-treated plywood, oil-treated plywood, Luaun plywood, Masonite

poured epoxy floors.

(see "Suitable Substrates" section below), sheet vinyl, vinyl composition

tile (VCT), self-stick tile, laminate surfaces, metal or fiberglass surfaces, or

CERAMIC TILE: 12" x 24" DAL-TILE #SA07 (META DARK GRAY). THIN SET INSTALLATION, ON CRACK ISOLATION BARRIER, SEE SPECIFICATION. 1/4" GROUT JOINTS. GROUT: #47 (CHARCOAL)

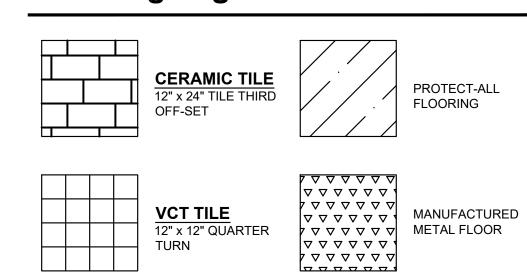
## **VCT TILE AND GLUE SUPPLIED BY CASEY'S**

**VINYL TILE: ARMSTRONG TILE.** PRODUCT CODE ARM 51908 PEWTER. 12"x12"

## **Crack Isolation Specification**

SURFACE PREPARATION: MUST BE CLEANED OF ALL DUST & DEBRIS, AND STRIPPED OF ANY SEALERS, WAXES; OR OTHER BOND BREAKERS.

## Flooring Legend







CASEY'S GENERAL STORE 10/13/2023 MO-150 & ARBORIDGE DR CERAMIC TILE LEE'S SUMMIT, MO FLOORING PLAN 2023 - U4 - V.01

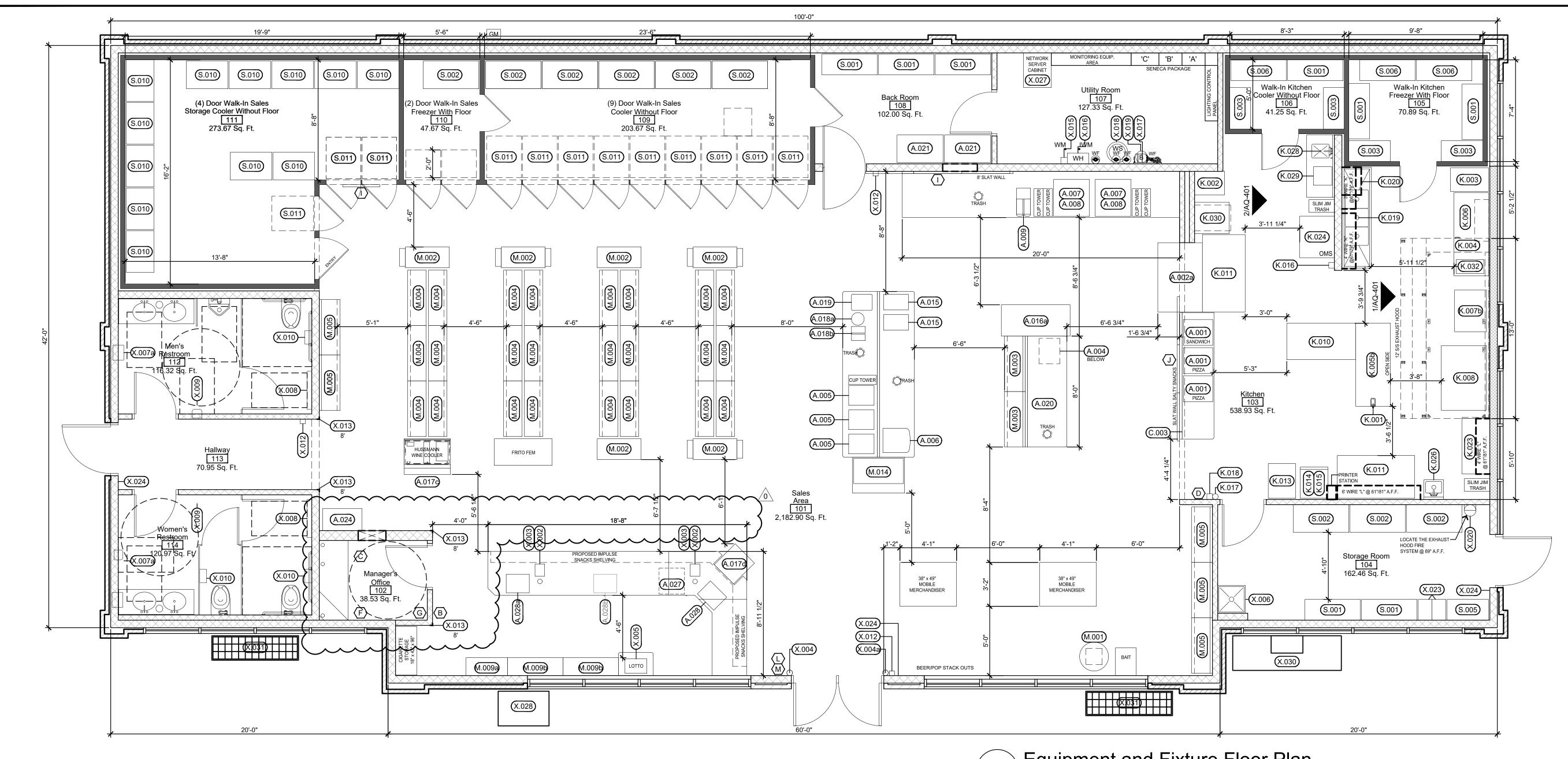
07164.057

JLN

A-701

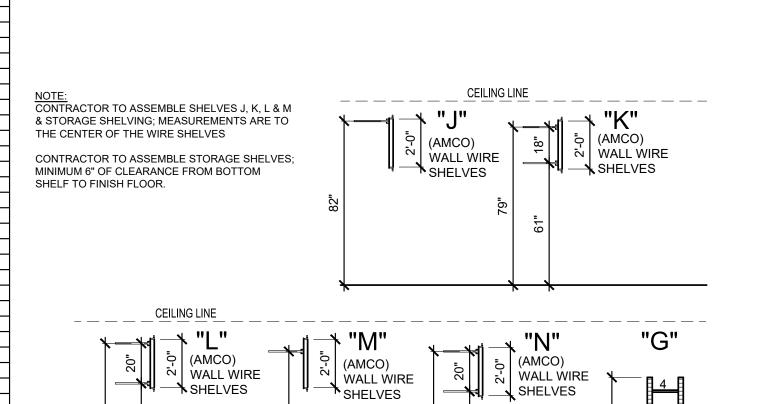


Lee's Summit, 04/16/20



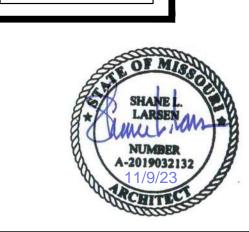
# 2 Equipment and Fixture Floor Plan

#### Last Update 06-28-22 X - OTHER APPLIANCE K - KITCHEN M - MERCHANDISING PART # NOTE DESCRIPTION MANUFACTURE MODEL NUMBER CGS MANUFACTURE | MODEL NUMBER NOTE DESCRIPTION MANUFACTURE MODEL NUMBER NOTE DESCRIPTION NOTE DESCRIPTION MANUFACTURE MODEL NUMBER 0773 K.001 MANUAL CAN OPENER 801000 M.001 SUNGLASS SPINNER A.001 | SELF-SERVE PIZZA WARMERS X.002 MICROPHONE / INTERCOM .001a SELF-SERVE SANDWICH WARMERS 00774 K.002 TRAY RACK / BREAD RACK NEWAGE 6301 601703 M.002 3' END CAP LOZIER A.002 SUB/PREP CASE Q3-SP-6R X.003 CREDIT CARD MACHINE M.003 16"X48"X48" SHELVING A.002a SUB/PREP CASE A.003 DELI SANDWICH PREP TABLE A.003a SELF-SERVE CASE X.004 FIRE EXTINGUISHER 32" A.F.F. R-GNG-LPRO-5-B-BI X.004a FIRE EXTINGUISHER 32" A.F.F. (IL ONLY) DELFIELD 801484 K.005 8' STAINLESS STEEL ISLAND TABLE M.005 16"X48"X72" SHELVING LOZIER STRUCTURAL 310267 K.005a 7' STAINLESS STEEL ISLAND TABLE LOZIER JOHN BOOS CGS-IT1-84C M.006 16"X36"X66" SHELVING A.004 MICROWAVE (BELOW COUNTER) JOHN BOOS CGS-IT1-72 X.006 MOP BASIN / INSTALL BEFORE FLOORING 640026 M.007 16"X36"X72" SHFI VING LOZIER 20600 K 005b 6' STAINLESS STEEL ISLAND TABLE ..004a MICROWAVE (BELOW COUNTER) JOHN BOOS CGS-IT1-48 640029 M.008a 3'x63.5" CIGARETTE RACK X.007 PAPER TOWEL DISP. RECESSED TRASH RECP. 520160 K.005c 4' STAINLESS STEEL ISLAND TABLE R21LCFS CHAERER 30107 K.006 6' STAINLESS STEEL LH FRYER TABLE JOHN BOOS CGS--DA72-OS-DL 640700 M.008b 4'x63.5" CIGARETTE RACK 640703 M.009a 3'x92.5" CIGARETTE RACK 10700 K.006a 6' STAINLESS STEEL RH FRYER TABLE JOHN BOOS CGS-DA2-60 A.007 ENDURO 200 POP MACHINE W/10 DISP. OHN BOOS M.009b 4'x92.5" CIGARETTE RACK A.007a MIX DRINK DISP. FLAVOR/OVERLOAD X.009 ELECTRIC HAND DRYER DLUMBIA A 008 CHUNKI ET ICE MAKER / WCC-700-A 0805 X 009a HIGH SPEED VERTICAL HAND DRYER M.011 SELF SERVE DONUT CASE 56X21.6X40.5 V-SERIES A.009 DUAL ICE TEA BREWER X.010 DOUBLE TOILET PAPER HOLDER HENNY PENNY HHC990 A.010 FROZEN CARBONATED BEV. FREEZER EP-2302/EP-2304 AMERICAN 540705 K.007a HALF SIZE - HEATED HOLDING CABINET 801710 M.013 COUNTERTOP DONUT CASE 44X32X67 STRUCT. CONCEPTS CDS4540.5424 A.011 FROZEN BEVERAGE DISPENSERS 540706 K.007b BREAD OVEN AND PROOFER M.014 FLOOR MODEL DONUT CASE 44X32X67 STRUCT. CONCEPTS CDS4540.5423 700501 X.012 HAND SANITIZER STATION / 48" TO CENTER 540701 K.008 PIZZA OVENS / 1100-006-U-K1836 SERIES /A SERIES 15CI100A A.013 GOURMET ICEE K.009 MULTI-COOK OVEN ALTO-SHAMM VMC-H4 MANUFACTURE | MODEL NUMBER | CGS | PART # NOTE DESCRIPTION A.014 COUNTERTOP ICE MACHINE/DISPENSER FOLLETT 100A-NW-NF-ST-00 | 360815 | K.009a | MULTI-COOK OVEN X.016 RECIRCULATING PUMP RHEEM AP17920 X.017 WATER FILTER SYSTEM GOODWEST A.015 COLD BREW COFFEE RHEEM VZN-441V-T5 S.001 48"X18"X64" / MIN. 6" TO BOTTOM A.016 4' ICE CREAM MERCHANDISER EXCELLENCE 310472 K.010 5' REFRIGERATED WORK TOP DELFIELD 18660BSTMP X.018 WATER SOFTENER CULLIGAN 2021 SERIES 3.002 48"X24"X64" / MIN. 6" TO BOTTOM 016a 5' ICE CREAM MERCHANDISER EXCELLENCE 310476 K.011 5'-7 REFRIGERATED PIZZA PEP TABLE X.019 BRINE TANK BEVERAGE AIR DP67HC AMCO S.003 36"X18"X64" / MIN. 6" TO BOTTOM 16b GLASS DOOR FREEZER EXCELLENCE 310477 | K.012 | 6' REFRIG. PIZZA PER TABLE 3 DOOR BEVERAGE AIR DP72HC X.020 EXHAUST HOOD FIRE SYSTEM IOWA FIRE AMCO S.004 36"X24"X64" / MIN. 6" TO BOTTOM JOHN BOOS CGS-DST1 16c 3' ICE CREAM MERCHANDISER EXCELLENCE 310482 K.013 2' STAINLESS STEEL TABLE S.005 36"X18" COAT RACK X.022 WATER TANK / HEATER 40"X40"X60" REF. SELF-SERV. END CAP 10203 K.014 2' STAINLESS STEEL ROLLER TABLE JOHN BOOS CGS-DT1 S.006 48"X18"X8" PLATFORM X.023 2-LOCKUP LOCKERS SOMERSET 10209 K.015 DOUGH ROLLER X.024 TACTILE SIGN 48" MIN A.F.F. LATCH SIDE 310207 K.016 PIZZA PHONE JACK/MOUNT 60" A.F.F 010 36"X24"X64" BLACK / MIN. 6" TO BOTTOM C VERTICAL OPEN MERCHANDISER X.025 FOLDING DRESSING SEAT GSVM-4072A 10269 K.017 FIRE EXTINGUISHER/MOUNT 25" A.F.F. (4) BLACK POST PER SHELVING UNIT AMCO 17d REDBULL DRINK COOLER K.018 EMERGENCY PULL STATION BOBRICK X.026 FOLDING SHOWER SEAT CAPTIVEAIRE (4) CHROME POST PER SHELVING UNIT AMCO X.027 NETWORK SERVER 18a FLAVOR SHOTS K.019 3-COMPRT. SINK/DUAL DRAIN BOARDS P&P MARKETING JOHN BOOS CGS3PB1620-2D18-2F (4) 30" CHROME POST PER SHELVING AMCO A.018b COFFEE CONDIMENTS K.019a 3-COMPRT. SINK.RIGHT DRAIN BRD. (R) X.028 PROPANE TANK CABINET P&P MARKETING | CR-PPM-22512 JOHN BOOS CGS-SDT6-3PBS70SBK 640722 11 COOLER ROLLER GLIDE SHELVING X.029 PACKAGED ICE CABINET (SINGLE DOOR) A.019 REFRIGERATED CREAM DISPENSER 540205 K.020 SHELVING BELOW SINK/TOXIC SUPPLIES 11a COOLER ROLLER GLIDES 28"W X 24"D LEXROLLER X.030 PACKAGED ICE CABINET (DOUBLE DOOR) 019a REFRIGERATED CREAM DISPENSER 540199 K.021 DISHWASHER/VENTLESS (R STORE) FLEXROLLER .011b COOLER ROLLER GLIDES 28"W X 26"D X.031 FIREWOOD RACK (21" FRONT OF BLDG) A.020 CONDIMENT AREA S.011c COOLER ROLLER GLIDES 28"W X 36"D X.032 FIREWOOD RACK (32" UNDER CANOPY) A.021 BAG-IN-BOX W/CARBONATOR 43 SERIES / E SERIES A.022 3' MERCHANDISER REFRIGERATED G.N.G. PIPER R-GNG-LPRO-3 10262 K.024 3' STAINLESS STEEL DELIVERY TABLE A.022a 4' MERCHANDISER REFRIGERATED G.N.G. PIPER R-GNG-LPRO-4 310258 K.025 3' STAINLESS STEEL DELIVERY TABLE JOHN BOOS | CGS-STR4R5-3036SSW | 640701 NOTE DESCRIPTION NOTE DESCRIPTION LOCATION 10268 K.026 STAINLESS STEEL HAND SINK 17X17 3' MERCHANDISER REFRIGERATED G.N.G. PIPER -GNG-HPRO-3 IOHN BOOS CGS-WHS18 A.023a 4' MERCHANDISER REFRIGERATED G.N.G. PIPER GNG-HPRO-4 A 36" X 48" VERTICAL 10257 K.026a STAINLESS STEEL HAND SINK 15X15 JOHN BOOS PB-DISINK151506 BOTTOM 60" A.F.F. JOHN BOOS CGS-DI101410SSLR B 18"X24" GLASS ENCLOSE PERMIT FRAMED SALES AREA A.025 ELECTRIC WASHER UNI 00785 K.027 RH VEGETABLE SINK 97X30X31 SPEED QUEEN JOHN BOOS CGS-VTS96-RH C 18"X24" VERTICAL BOTTOM 70" A.F.F. C.004 SALES COUNTER A.026 ELECTRIC DRYER UNIT SPEED QUEEN JOHN BOOS D 18"X24" VFRTICAL 601387 KITCHEN C.005 TABLE & CHAIRS A.027 UNDER COUNTER SAFE ARMOR SAFE 610405 | K.028 | VEGETABLE SINK 54X24X31 JOHN BOOS BOTTOM 36" A.F.F. OFFICE F 12"X36" VERTICAL C.006 TABLE & CHAIRS A.028 CASH REGISTER #1 K.028a VEGETABLE SINK 21X25.5X44 (ACQ.) NCR REALPOS JOHN BOOS CGS-WHS18 ABOVE LIGHT SWITCH OFFICE G KEY RING SHELF .016 CASEWORK A.028a CASH REGISTER #2 K.029 MANUAL VEGETABLE SLICER ARC-XL-30400 NCR REALPOS NCR 7403 I 48" MONITORS 7 SLAT WALL A.028b CASH REGISTER #3 NCR REALPOS K.030 BREAD HOLDING CABINET LOCKWOOD CA37-ES20-CD J 48" MONITORS DELI CASE .018 COFFEE LID CASEWORK A.029 4 DOOR FREEZER ZERO ZONE RVZC30 K 031 CLASSIC COUNTERTOP COOKER/WARMER APW-WYOTT W-43V FRONT DOOR )19 CAT SCALE & TRENDAR EQUIPMENT A.030 3 DOOR FREEZER ZERO ZONE RVZC30 K.032 TENDERLOIN FRYER ZERO ZONE RVZC30 K.033 STAINLESS STEEL TENDR. FRYER CART VOLRATH 97125 31 2 DOOR FREEZER



"MEASUREMENTS ARE TO THE CENTER OF THE WIRE SHELVES"

**Shelving Components** 



WIRE SHELVING 3 SHELVES 1044 North 115th Street, Suite 300 0 10/13/2023 REVISED ON: CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR **EQUIPMENT** LEE'S SUMMIT, MO PLAN 2023 - U4 - V.01 07164.057 AQ-101

JLN

Remote Pull Detail (CO27)

1/4" HOLE -

LOCATE IN KITCHEN

AT ALL 4 CORNERS

REMOTE PULL HEIGHT @48"

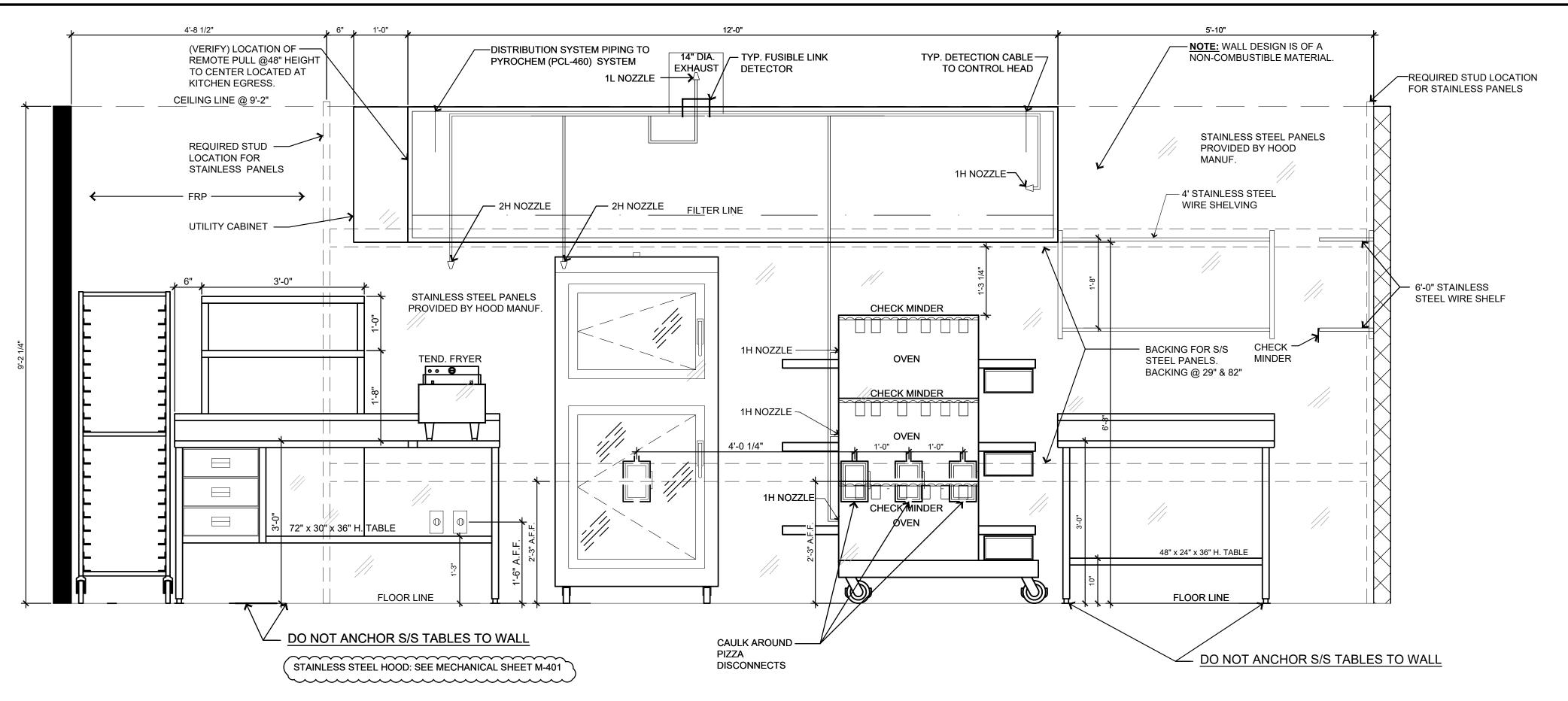
BOX. MUD SCREWS TO BE

REQUIRED. A 1" HOLE IS TO BE DRILLED IN F.R.P. IN

CENTER OF BOX. <u>DO NOT</u> CUT AROUND SQUARE BOX.

TO CENTER OF SQUARE



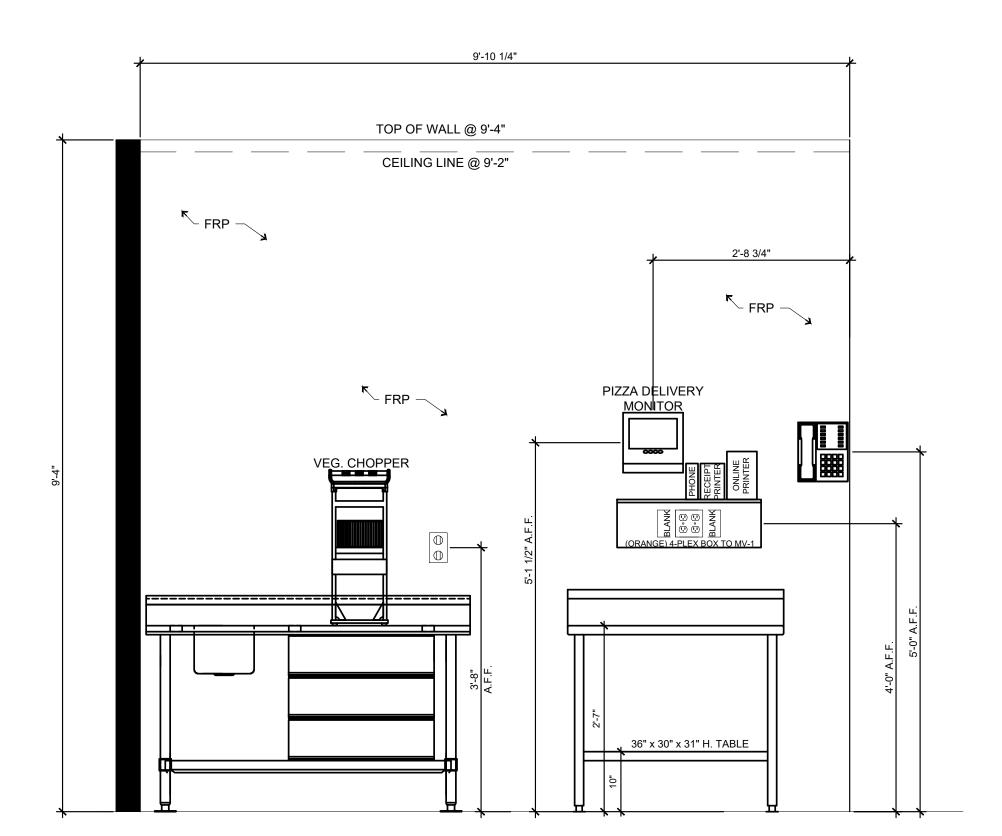


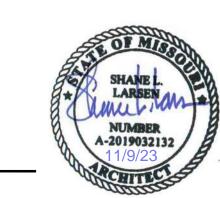
NOTE: ELECTRIC SHUTOFF IS INTEGRAL TO HOOD CONTROL PANEL 4.6 - GALLON EXHAUST FIRE SYSTEM COMPLIANT

- 1.) MICRO SWITCH PART NUMBER 551154 PROVIDED BY IOWA FIRE EQUIPMENT CO. FOR USE BY ELECTRICAL CONTRACTOR TO FACILITATE ELECTRIC SHUT DOWN OF ALL EQUIPMENT BENEATH
- THE HOOD ASSEMBLY PER N.F.P.A. 17-A 2017 EDITION. (EXCEPTION OF EXHAUST FANS)! 2.) ALL EXPOSED PIPING WITHIN THE HOOD ASSEMBLY TO BE CHROME SLEEVED WITH CHROME PLATED FITTINGS. ALL PENETRATIONS MADE IN THE HOOD TO BE FITTED WITH A LIQUID TIGHT SEAL OR QUICK SEAL ASSEMBLY.
- 3.) REMOTE MANUAL RELEASE ASSEMBLY TO BE MOUNTED @48" IN COMPLIANCE WITH N.F.P.A. 17-A 2017 EDITION. OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

ROLLER IN KITCHEN IS TO BE BOLTED TO S/S TABLE. SET ROLLER AS FAR BACK AS POSSIBLE AND ANCHOR UP THRU LEGS.

## Kitchen Wall Elevation

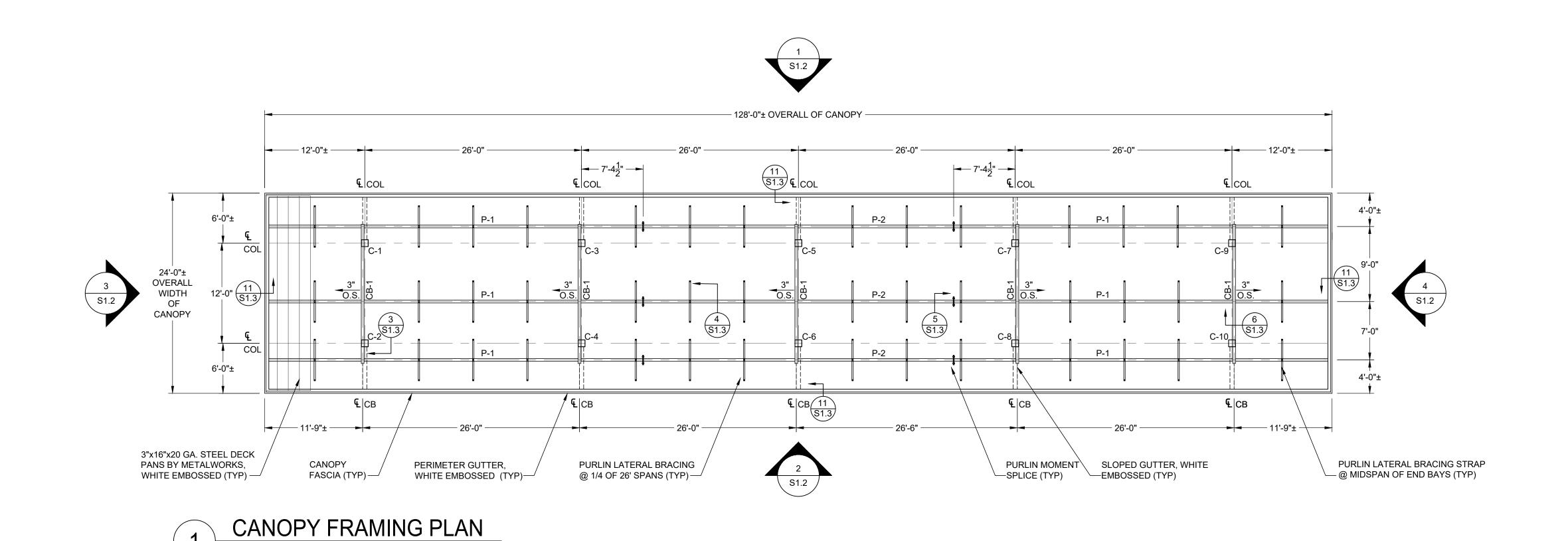


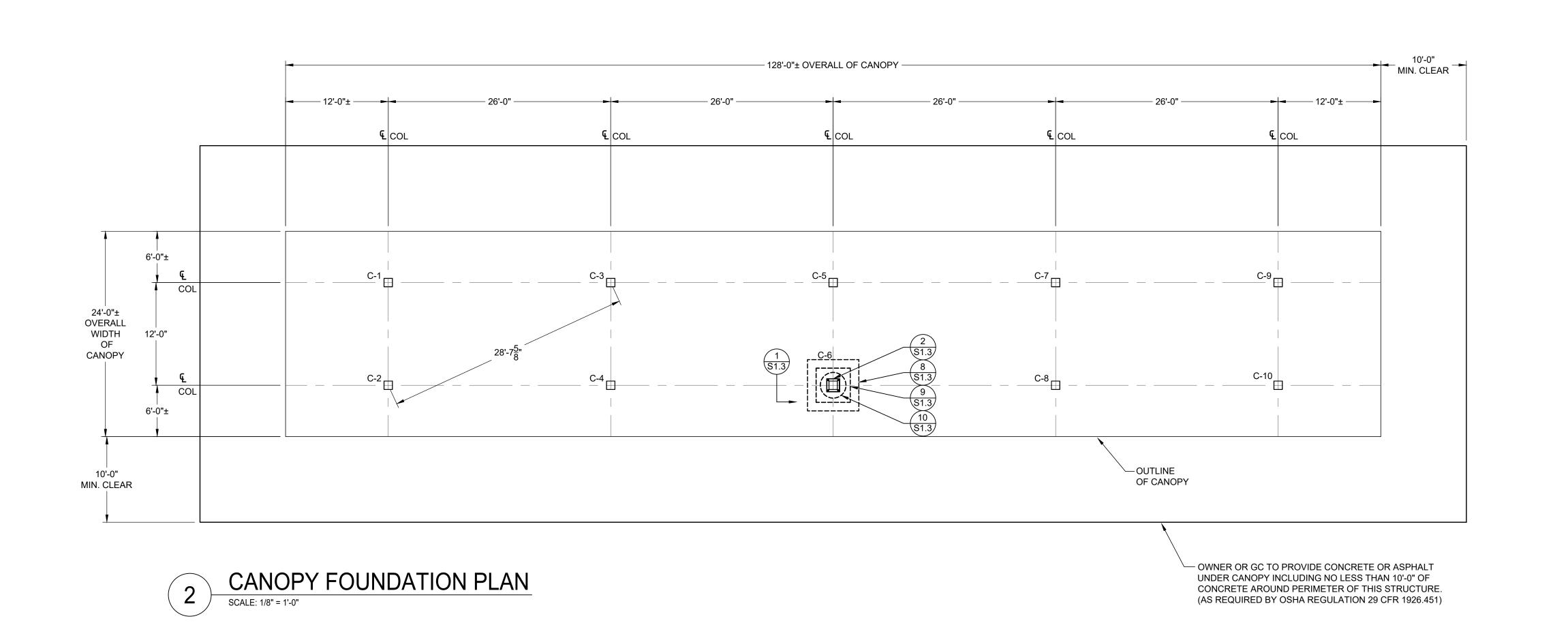


¥	SCHEM	IMER
Casey's	Deelgn with Purpose	. Build with Confidence.
	1044 North 115th Street, Suite 300	COA Number
<del></del>	Omaha, NE 68154	CA0666
ROJECT:	PUBLISHED:	DRAWING INFORMATION:
CASEY'S GENERAL STORE	10/13/2023	

CASEY'S GENERAL STORE
MO-150 & ARBORIDGE DR
LEE'S SUMMIT, MO
2023 - U4 - V.01 KITCHEN WALL INTERIOR ELEVATION PROJECT NUMBER: 07164.057 AQ-401

Kitchen Wall Elevation





	LEGENE	)	ВУ	D	evelo	Note	t Ser	vices	Depa	
			DATE		_	.ee's S		it, Mi 2024		l
PART#	SIZE	QUANTITY	2							ı
C-1	10"x10"x1/4"	1								ı
C-2	10"x10"x1/4"	1	N							ı
C-3	10"x10"x1/4"	1	DESCRIPTION							ı
C-4	10"x10"x1/4"	1	CRI							ı
C-5	10"x10"x1/4"	1	DES							ı
C-6	10"x10"x1/4"	1	-							ı
C-7	10"x10"x1/4"	1	<u> </u>						$\vdash$	ı
C-8	10"x10"x1/4"	1	REV							ı
C-9	10"x10"x1/4"	1	Ē	022	MS	ΉF			2	ı
C-10	10"x10"x1/4"	1	AS NOTED	08/02/2022	G. WILLIAMS	SC/SH/FK			19367-DO	ı
CB-1	W8X10#	5	AS	08/		SC			19.	ı
P-1	W10X12#	6			<u>ن</u>	_				ı
P-2	W10X12# 3				ВУ	D BY			# (5)	ı
ALL COND	SHEET NOTE UITS INSIDE CO 3"X5" INSPECTION	SCALE	DATE	DRAWN BY	CHECKED			ARNING		

RELEASED FOR

REQUIRE A 3"X5" INSPECTION HOLE TO BE SHOP CUT AND LOCATED WITH ITS CENTERLINE AT THE TOP OF THE SEAL OFF. ALL ENDEAD ARNING COVERPLATE INSTALLED AT THE SAME ELEVATION. TOUCH-UP PRIMER AT THE INSPECTION HOLE OPENING AFTER SHOP CUTS and has calculation. Inc. swork does not exceed that of the accompanying the accompanying and the accompanying the





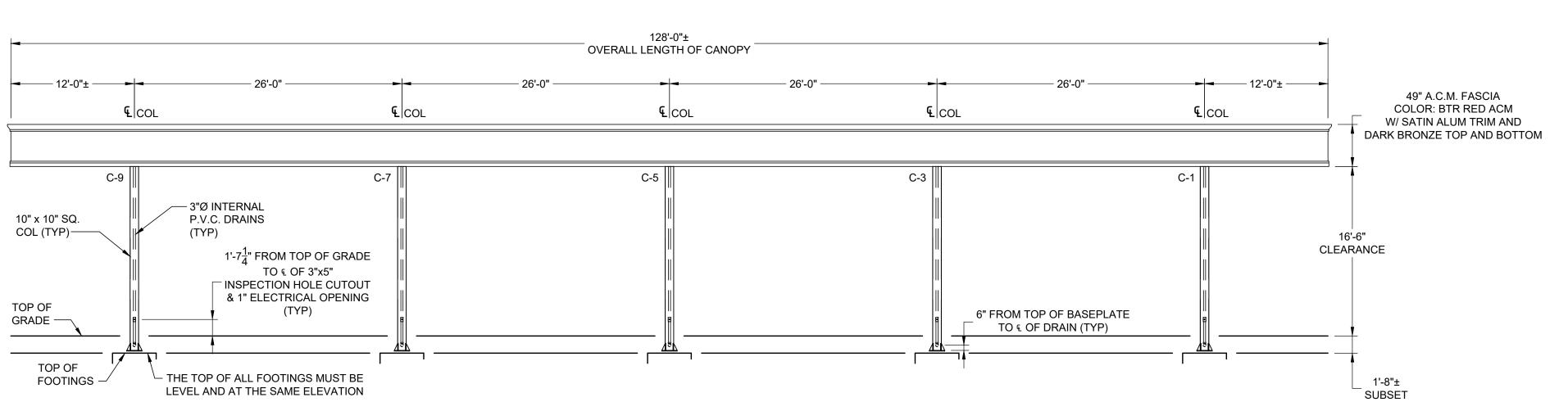




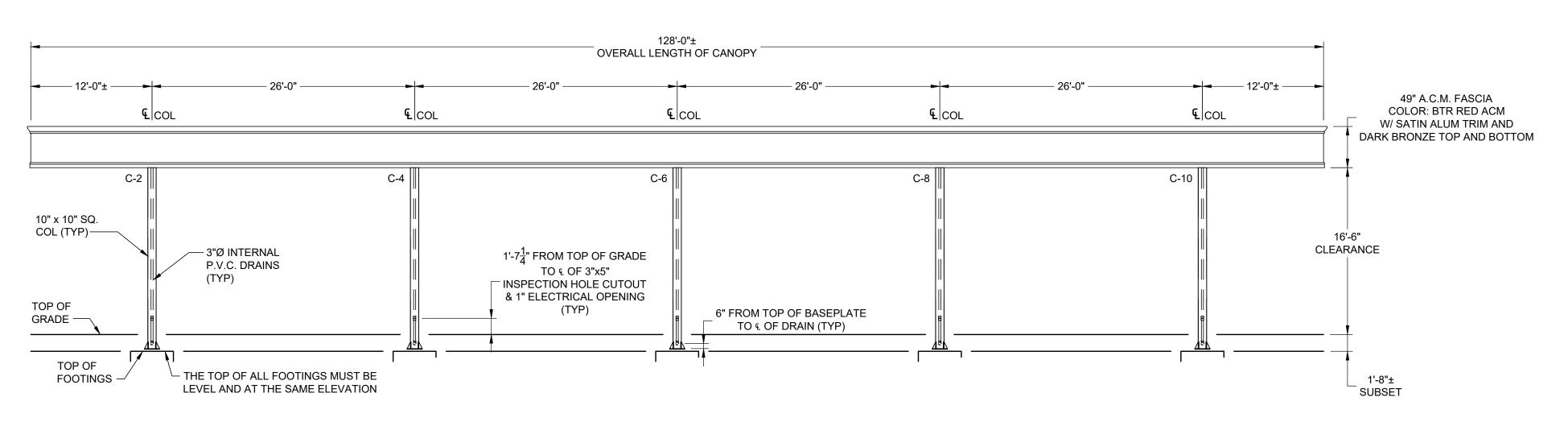
AUG 05 2022

FRAMING & FOUNDATION PLAN

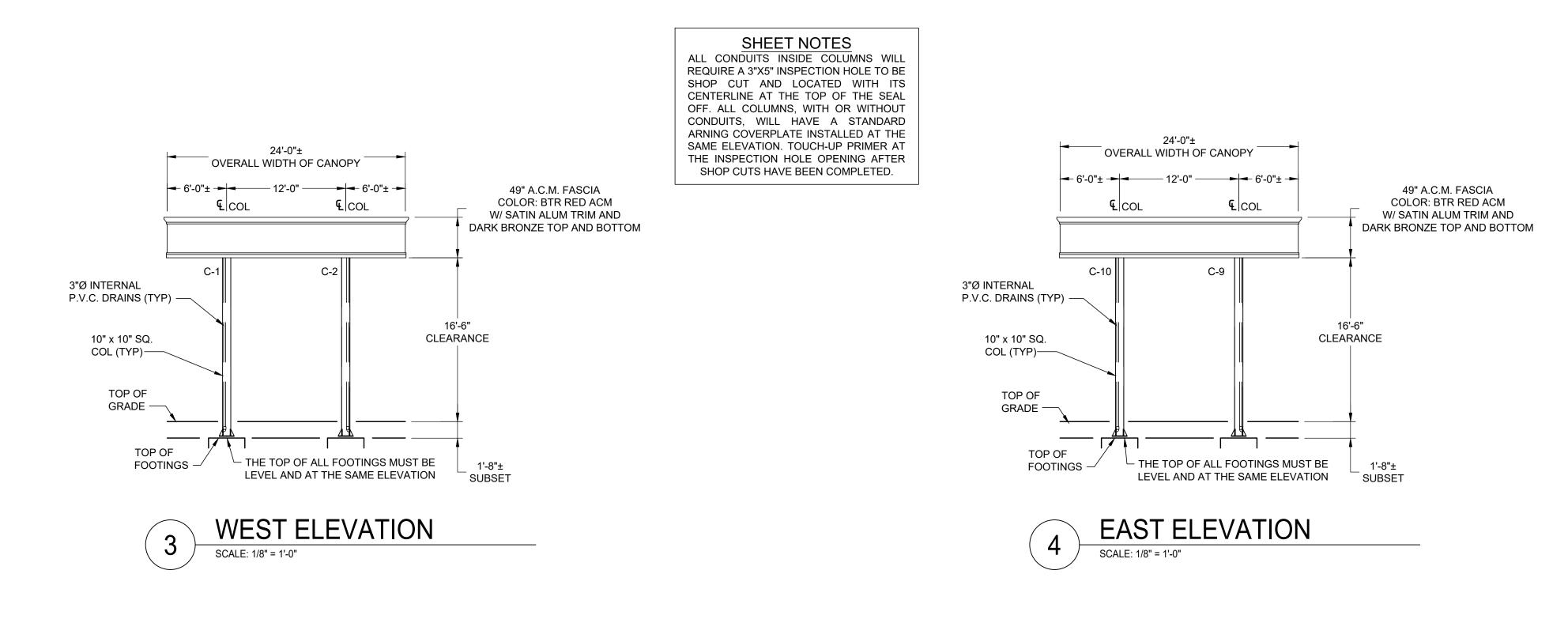
## COLUMNS WITH VENT LINES WILL REQUIRE RED INSPECTION HOLE COVERS



# 1 NORTH ELEVATION SCALE: 1/8" = 1'-0"



# 2 SOUTH ELEVATION SCALE: 1/8" = 1'-0"



SCALE AS NOTED REV DESCRIPTION DATE BY Sonly.

Stands of SE ARNING # 19367-DO

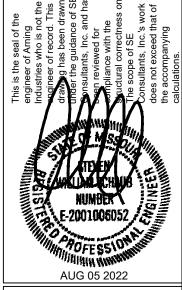
SCALE AS NOTED DESCRIPTION DATE BY SCALE AS NOTED BY SCALE AS NOTED BY SCALE AND BY G. WILLIAMS

AND A SCALE AS NOTED BY SCALE AS NOTED BY SCALE AND BY G. WILLIAMS

AND A SCALE AS NOTED BY SCALE AS NOTED BY SCALE AND BY G. WILLIAMS

Stands of SE ARNING # 19367-DO

ARNING # 19367-DO





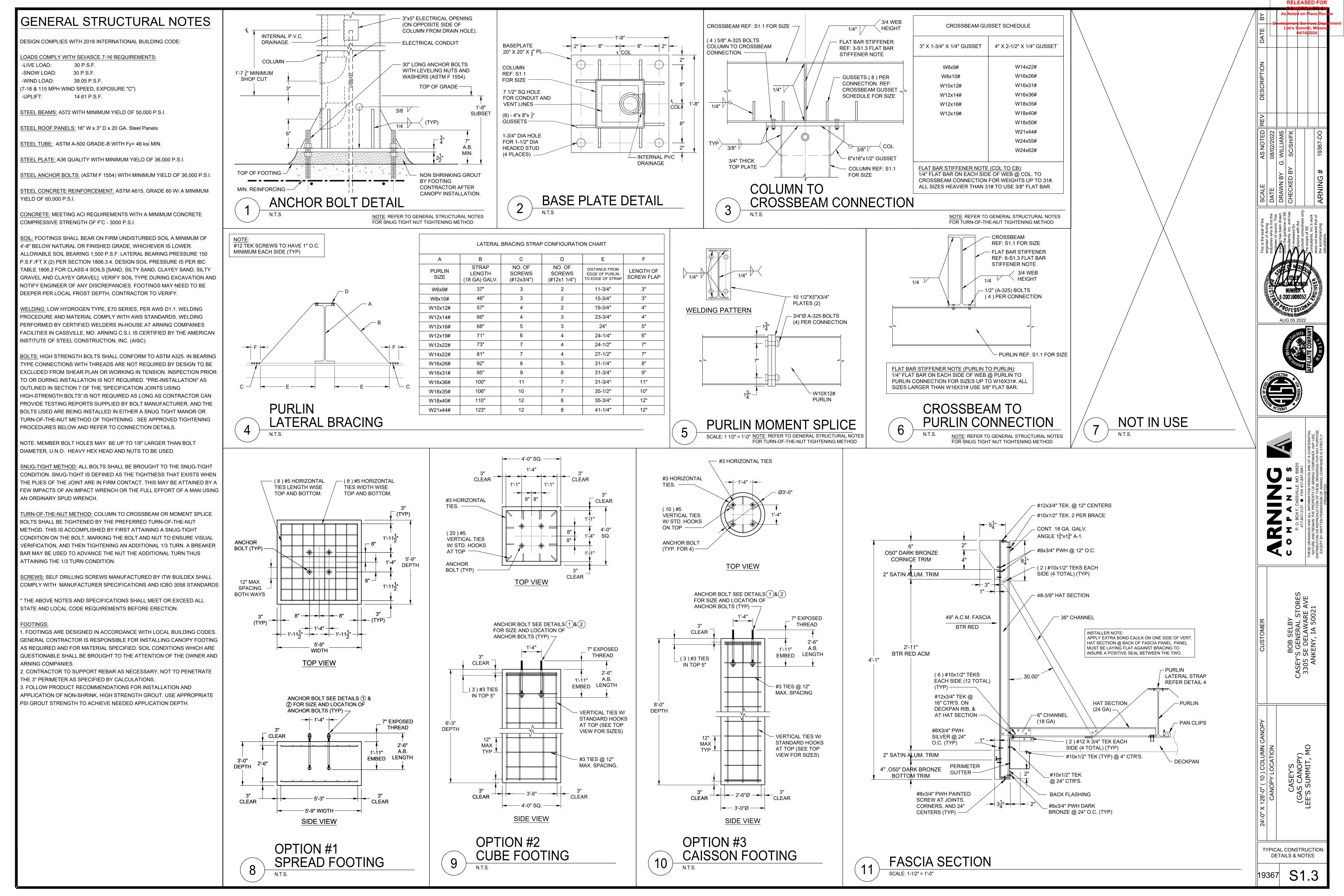


BOB SELBY CASEY'S GENERAL STORES 3305 SE DELAWARE AVE ANKENY TA 50021

24'-0" X 128'-0" ( 10 ) COLUMN CANOPY
CANOPY LOCATION
CASEY'S
(GAS CANOPY)

CANOPY ELEVATIONS

19367 S1.2



RELEASED FOR

## Design Loads:

Governing Building Code:

#### Gravity:

20 psf
25 psf 1.0 1.0
1.0
1.0
1.0

2018 INTERNATIONAL BUILDING CODE

Dimension Lumber and Sheathing:

with manufacturers recommendations.

1. All structural steel shall conform to the following:

coated with (2) coats of asphaltic paint.

a. Anchor bolt layout drawings.

h. Light gage materials.

e. Masonry reinforcing shop drawings.f. Masonry grout and mortar mix designs.

sole responsibility of the general contractor.

c. Identify any variation from the contract documents.

b. Concrete mix designs, tests and material certifications.

g. Concrete block compression tests and material certifications.

splitting of the wood.

a. Miscellaneous Steel

Shop Drawing Review:

Structural Steel:

All sawn lumber framing members shall be Hem-Fir 1800 MSR, or better. All manufactured beams shall be LVL grade 2.0e, or better. All manufactured columns shall be LVL grade 1.8e or PSL 1.8e, or better.

2. All wood framing members referenced as nominal sizes, dressed S4S. Provide actual sizes as required by

3. All wood structural panels shall be identified with the appropriate grade trademark of the American Plywood

4. All nailing not indicated on the drawings shall conform to the nailing schedule of the governing building code. Spacing, end distances and edge distances of nails and spikes shall be such as to avoid the unusual

approved equal, attach framing accessories to wood framing accessories to wood framing in accordance

6. All light gage metal framing accessories noted shall be as manufactured by "Simpson Strong Tie" or

ASTM A36, Grade 36

ASTM A500, Grade B

3. All steel shall have one coat of red oxide primer. Field touch-up all unpainted areas and weld areas.4. Welding shall conform to the latest publication of applicable codes set forth by the American Welding

6. .All steel below grade shall be encased in concrete where possible: if not possible, steel shall be thoroughly

b. Review each submission for conformance with the means, methods, techniques, sequences, and

d. Review and approve each compliant submission. Non-compliant submissions shall be returned to the

d. Structural steel shop drawings, material certifications, welder certifications, and connection calculations.

2. The following is a list of required shop drawings and related submittals. The general contractor shall refer to

operations of construction; and safety precautions and programs incidental thereto, all of which are the

2. Unless noted otherwise, all column anchor bolts shall have a minimum yield stress of 36 ksi.

5. See architectural drawings for all miscellaneous steel, nailer holes, attachments, etc.

1. Prior to submittal of a shop drawing or related submittal the general contractor shall:
a. Review each submission for compliance with the contract documents.

subcontractor and approved submissions shall be stamped thus.

the specifications for more information and a complete list of required submittals:

Concrete reinforcing shop drawings, reinforcing material certifications.

PS20. Provide seasoned lumber with 19% maximum moisture content at time of dressing.

Association (APA) and shall meet the requirements of Product Standard PS-2.

5. All nails shall be common wire nails, unless noted otherwise.

7. Wood glue shall meet the requirements of ASTM D3498.

9. Roof sheathing shall be  $\frac{19}{32}$ " APA Rated OSB, Exposure 1, 48/24.

8. Wall sheathing shall be  $\frac{7}{16}$ " APA Rated OSB, Exposure 1, Wall - 16(W16).

Society. Non-pregualified or unauthorized welds will not be accepted.

#### viiia.

Basic Wind Speed - Ultimate Strength Design Vult	
Basic Wind Speed - Allowable Strength Design Vasd	84 mpn
Wind Importance Factor Iw	
Building Category	
Exposure Category	
Internal Pressure Coefficient	+0.180.18

#### Seismic:

Seismic Importance Factor	1.0
Mapped Spectral Response Acceleration, Ss	0.100
Mapped Spectral Response Acceleration, S1	0.068
Site Class	
Spectral Response Coefficient, SDS	
Spectral Response Coefficient, SD1	0.109
Seismic Design Category	
Basic Seismic Force Resisting System	Wood Shear Walls
Response Modification Factor, R	
Analysis Procedure	, Equivalent Lateral Force
•	•

#### General:

- Any conflict and/or contradiction of terms or requirements with these General Notes will be resolved by the Architect/Engineer in favor of the more stringent or superior quality requirement.
- Architect/Engineer in favor of the more stringent or superior quality requirement.

  2. The General Contractor shall be responsible for verifying all dimensions and elevations shown on the plans and for coordinating all dimensions and elevations shown on the structural drawings with those shown on the architectural and mechanical drawings. If errors or discrepancies in the dimensions occur, it shall be the superintendent's responsibility to bring all discrepancies to the attention of the Architect before proceeding with the work. Field verify conditions of all adjacent existing construction prior to beginning work or ordering materials. Report any discrepancies with information contained in these documents immediately to Engineer.
- 3. The Contractor shall verify all architectural, mechanical, and electrical openings, sizes and locations, with the structural drawings.
- 4. Structural details shown on these drawings are general in nature and are valid for all similar areas and conditions, unless specifically shown or noted otherwise.
- conditions, unless specifically shown or noted otherwise.

  5. The Contractor shall provide all temporary bracing and shoring as required during construction to ensure the
- safety of all individuals involved.
  6. Furnish all labor, materials and equipment necessary to complete the work shown or inferred by these
- 7. Tank spoils are not to be included in the bid.

#### Foundations:

- 1. Foundations for this project have been designed for an allowable bearing value of 2,000 psf based on the recommendations in geotechnical report number G20-22-107 dated September 19, 2022 prepared by Kansas City Testing & Engineering, LLC.
- Anchor bolts shall be located by means of a template to assure proper alignment.
- 3. Grout below all column base plates and other bearing members shall be 7500 psi non-shrink grout, thoroughly compacted and installed as recommended by the grout manufacturer.

## Concrete:

- All concrete and reinforcing work shall conform to the latest edition of the American Concrete Institute's
  "Standard Building Code Requirements for Reinforced Concrete," (ACI 318) and "Specifications for
  Structural Concrete for Buildings," (ACI 301).
- 2. Proposed concrete mix design shall be submitted to the Owner for approval prior to construction. Concrete shall use type II cement. Concrete mix designs shall meet the following requirements:

	Minimum	Maximum		
	28-Day	Water/Ceme	ent	Air
	<u>Strength</u>	<u>Ratio</u>	Slump	Entrainmer
Footings	4,000 psi	0.55	4"±1"	2%
Exterior exposed concrete	4,000 psi	0.42	4" <u>+</u> 1"	6% <u>+</u> 1%
Interior Slabs	4,000 psi	0.51	4"±1"	2%
Foundation	4,000 psi	0.42	4"±1"	6%±1%

- 3. If Contractor desires to increase slump above allowable limits to facilitate placement or pumping, this shall be done utilizing an appropriate approved admixture no water shall be added at the project site without the Engineer's permission. All admixtures shall be approved in writing by the Engineer.
- 4. The Contractor shall reject any concrete that exceeds the slump limits noted above or exceeds the total allowable mixing time (noted in the specification) of 90 minutes.
- 5. No aluminum shall be placed in or directly against concrete.6. All concrete is reinforced unless specifically noted as Unreinforced. Reinforce all concrete not otherwise
- shown with the same reinforcing as in similar sections or areas.

  7. During hot weather (80 degrees F and above), the Contractor shall comply with the recommendations ACI-305 "Hot Weather Concrete". During cold weather (40 degrees and below), the Contractor shall comply with the recommendations of ACI-306 "Cold Weather Concreting".
- 8. The concrete mix designs are to be submitted as a formal submittal to the Owner for review and acceptance.9. Verify with local authorities the required thickness of poured concrete for approaches and parking lot.

## Sub-Base:

1. Sub-base Course Under Exterior Concrete Paved Surfaces: Spread two lifts of aggregate over prepared subgrade to a total compacted minimum thickness of 6" (153mm), compact according to specifications.

## Reinforcing Steel:

- Materials shall comply with the following:
- a. Reinforcing steel, all bars, shall be ASTM A615, Grade 60.
- 2. Detail bars in accordance with the "Manual of Standard Practice for Detailing Reinforced Structures" ACI
- 315, and "Building Code Reinforced Concrete," ACI 318.3. Accessories shall be as specified in the latest edition of "Concrete Reinforcing Steel Institute Handbook."
- Maximum spacing of accessories shall be 4'-0". All accessories to have galvanized or plastic coated feet.

  4. Reinforcing shall be continuous and where splices are required they shall be lapped a minimum of 45 bar diameters for bars NOT considered top bars. Top bars, bars with more than 12 inches of concrete below,

shall be lapped 56 bar diameters at splices unless noted otherwise on the drawings. Welded wire fabric

- shall be lapped a minimum of six inches.Standard concrete cover of bars unless otherwise noted shall be:
- a. Where earth formed 3 inches
- Other 2 inches
   All coverage nominal bar diameter minimum.

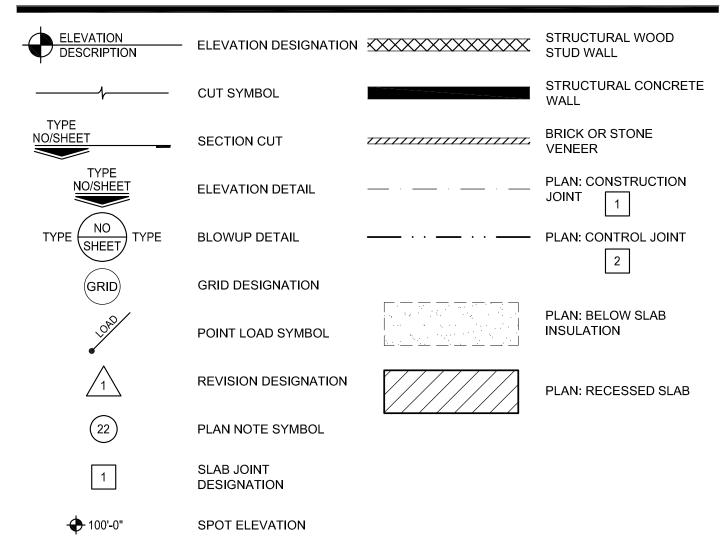
## Anchors:

1. Adhesive used to anchor rebar or threaded rods shall be Hilti HIT-RE500, Hilti HIT-HY 200, or Simpson SET-XP. Holes shall be drilled into concrete or masonry and not cored. If reinforcing is encountered during drilling the hole shall be moved to avoid damaging reinforcing. Unless noted otherwise bolt embedment shall be a minimum of 2" less than the length of the bolt. Follow all manufacturer recommendations including those for proper drill size and hole cleaning. When possible horizontal holes to receive rebar shall be slightly inclined to encourage flow of adhesive.

## Masonry

- All masonry construction shall conform to the following:
- a. Concrete Masonry Units: ASTM C90b. Masonry core fill and bond beam compressive strength of 3000 psi
- c. Type M or S mortar

## SYMBOLS LEGEND



## ABBREVIATIONS LEGEND

	TIL VII TITO LEGETAL		
AB	ANCHOR BOLT	MCJ	MASONRY CONTROL JOINT
ACI	AMERICAN CONCRETE INSTITUTE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURER
	AMERICAN INSTITUTE OF STEEL CONSTRUCTION		
AISC		MIN	MINIMUM
AISI	AMERICAN IRON AND STEEL INSTITUTE	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MO	MASONRY OPENING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MTL	METAL
AWS	AMERICAN WELDING SOCIETY	NIC	NOT IN CONTRACT
BFF	BELOW FINISH FLOOR	NO	NUMBER
BFS	BOTTOM OF FOOTING STEP	NS	NEAR SIDE
BL	BLOCK LINTEL	NTS	NOT TO SCALE
во	BOTTOM OF	OC	ON CENTER
BOS	BOTTOM OF STEEL	ОН	OPPOSITE HAND
BRG	BEARING	PAF	POWDER ACTUATED FASTENERS
CIP	CAST-IN-PLACE CONCRETE	PCF	POUNDS PER CUBIC FEET
CJ	CONTROL JOINT (WALL)	PL	PLATE
CL	CENTER LINE '	PLF	POUNDS PER LINEAR FOOT
CLR	CLEAR	PSI	POUNDS PER SQUARE INCH
CMU	CONCRETE MASONRY UNIT	QTY	QUANTITY
COL	COLUMN	RD	ROOF DRAIN
CONC	CONCRETE	REF	REFERENCE
CONST	CONSTRUCTION	REINF	REINFORCING
CONT	CONTINUOUS	REQD	REQUIRED
DIA	DIAMETER	REV	REVERSE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	RO	ROUGH OPENING
EJ	EXPANSION JOINT	RTU	ROOF TOP UNIT
EL	ELEVATION	SDI	STEEL DECK INSTITUTE
ELEC	ELECTRICAL	SIM	SIMILAR
		SIM	
EQ	EQUAL		STEEL JOIST INSTITUTE
EW	EACH WAY	SPECS	SPECIFICATIONS
FDN	FOUNDATION	T&B	TOP AND BOTTOM
FF	FINISH FLOOR	TFS	TOP OF FOOTING STEP
FS	FAR SIDE	THK	THICK
FTG	FOOTING	TO	TOP OF
GA	GAGE	TOC	TOP OF CONCRETE
GC	GENERAL CONTRACTOR	TOF	TOP OF FOOTING
	GYPSUM BOARD	TOGB	TOP OF GRADE BEAM
HORIZ	HORIZONTAL	TOM	TOP OF MASONRY
HSA	HEADED STUD ANCHOR	TOP	TOP OF PAVING
INFO	INFORMATION	TOS	TOP OF STEEL
JST	JOIST	TRANS	TRANSVERSE
JT	JOINT	TYP	TYPICAL
KSI	KIPS PER SQUARE INCH	UNO	UNLESS NOTED OTHERWISE
LBS	POUNDS	VERT	VERTICAL
LLH	LONG LEG HORIZONTAL	W	WIDTH
LLV	LONG LEG VERTICAL	WP	WORK POINT
LONG	LONGITUDINAL	WS	WALL STEP
MAX	MAXIMUM	WWF	WELDED WIRE FABRIC
			-

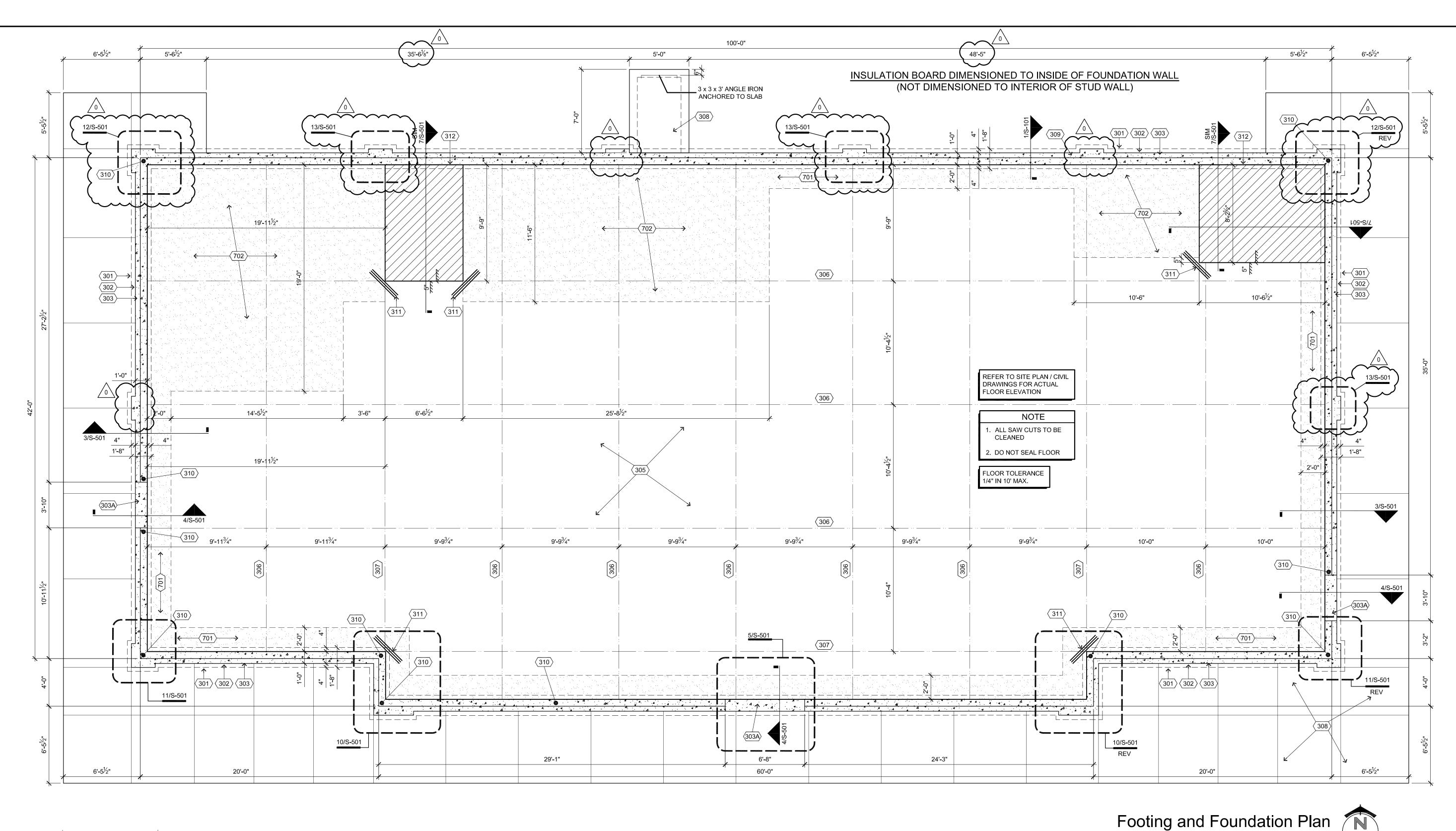
SCOPE OF	INCOPECTION TACK	INSPECTION F	FREQUENCY	BUILDING CODE		
WORK	INSPECTION TASK	CONTINUOUS PERIOD		REFERENCE		
	VERIFY CAPACITY OF BEARING MAT'LS		Х	TABLE 1704.7.1		
	VERIFY EXCAV. PROPER DEPTH & ABLE TO REACH PROPER MAT'LS		X	TABLE 1704.7.2		
SOILS	CLASSIFICATION & TESTING OF CONTROLLED FILL MAT'LS		X	TABLE 1704.7.3		
	VERIFY USE OF PROPER MAT'LS DESITIES & LIFT THICKNESSES		X	TABLE 1704.7.4		
	VERIFY PREP. OF SUBGRADE BEFORE CONTR. FILL PLACEMENT	X		TABLE 1704.7.5		
	REINF STEEL & PLACEMENT; INSPECT FORMWORK		X	TABLE 1704.4.1; 1704.4.11		
	BOLTS INSTALLED IN CONCRETE	Х		TABLE 1704.4.3.		
CONCRETE	VERIFICATION OF REQ'D MIX		X	TABLE 1704.4.4.		
CONONLIL	CONCRETE SAMPLING	X		TABLE 1704.4.5.		
	CONCRETE PLACEMENT	X		TABLE 1704.4.6.		
	CURING TEMPERATURE & TECHNIQUES		X	TABLE 1704.4.7.		
WOOD TRUSSES	TEMPORARY INSTALLATION RESTRAINT/BRACING AND PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING.		X	SECTION 1705.5.2.		

A QUALIFIED SPECIAL INSPECTOR WILL BE RETAINED BY THE OWNER TO COMPLETE SPECIAL INSPECTIONS PRIOR TO AND DURING CONSTRUCTION TO CONFORM WITH THE REQUIREMENTS OF THE BUILDING CODE AND THE LOCAL CODE AUTHORITIES. ITEMS REQUIRING SPECIAL INSPECTIONS ARE TABULATED ABOVE. REFER TO CODE CHAPTER 17 FOR SPECIFIC REQUIREMENTS FOR EACH INSPECTION TASK.

\_\_\_\_\_\_



1					
	Casal		SC		IMER  D. Build with Confidence.
	Caseys		1044 North 115 Omaha, NE 68	5th Street, Suite 300 3154	COA Number CA0666
	CASEY'S GENERA MO-150 & ARBORIDG LEE'S SUMMIT, MO 2023 - U4 - V.01		<u> 6.1</u>	PUBLISHED: 10/18/2023  REVISED ON: 1/24/2024	GENERAL STRUCTURAL NOTES & REQUIREMENTS
	PROJECT NUMBER: 07164.057  DRAWN BY: KMW	CHECKED BY: JJH			S-001



## **Construction Notes**

- REVIEW AND COORDINATE WITH ALL DETAIL PAGES REFERENCED ON THIS PLAN, NOTIFY ARCHITECT AND OWNER OF DISCREPANCIES. **RELATED DRAWING SHEETS**: REFER TO THE FOLLOWING:
- A-101: FLOOR PLAN S-102: ROOF TRUSS PLAN P-101: SANITARY PLUMBING PLAN

**General Notes** 

- P-102: SUPPLY PLUMBING PLAN E-103: UNDERGROUND CONDUIT PLAN
- **WORKING POINT**: THE WORKING POINT (*WP*) INDICATED ON THE DRAWINGS IS RELATIVE TO THE FACE OF SHEATHING ON THE EXTERIOR WALL AND IS A COMMON POINT OF REFERENCE WHERE EVER USED IN THESE DRAWINGS
- USE WORKING POINTS (WP)TO COORDINATE DIMENSIONS WITH WALL SECTIONS AND DETAILS ALL EXTERIOR WALL FOOTINGS SHALL BEAR A MINIMUM OF 4'-0" BELOW
- FINISH GRADE
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL RECESSED AND SLOPED FLOOR AREAS REFERENCE S-501 FOR CONTROL JOINT REINFORCING DETAILS AND NOTES PROVIDE 3 - #4x3'-0" LONG BARS AT INTERIOR SLAB CORNERS AND AT THE
- END OF CONTROL JOINT TERMINATIONS TYPICAL AT ALL EXTERIOR DOORS, PROVIDE (2) #4x4'-6" LONG (2'-6" HORIZONTAL x 2'-0" VERTICAL) SLAB DOWELS @ 18" O.C. TURN (1) DOWEL INTO THE BUILDING FLOOR SLAB AND (1) DOWEL INTO THE EXTERIOR
- SIDEWALK 10. REFER TO ARCHITECTURAL PLAN DRAWINGS FOR ADDITIONAL DIMENSIONS
- ALL PENETRATIONS THROUGH FOUNDATION WALLS ARE TO BE SEALED PROPERLY. USE NP-1 OR VULKEM CAULK OR EQUAL. CAULKING MUST HOLD
- PROPERTIES BELOW GRADE 2. PROVIDE 1'x1' BOX-OUT FOR ALL ADJUSTABLE FLOOR DRAINS

- **DIVISION 3 CONCRETE**
- SHEET S-501 FOR ADDITIONAL INFORMATION. FORMED FOUNDATIONS: TYPICAL 12" W REINFORCED CAST CONCRETE; SEE DETAILS SHEET S-501 FOR DIMENSIONAL AND REINFORCING DETAILS.
- $\langle 303 \rangle$  BRICK LEDGE: PROVIDE 5-1/2" W x 3" D BLOCK OUT ALONG FOUNDATION [303A] BREAK AT DOOR OPENINGS AS INDICATED BY DETAILS.
- CONCRETE SLAB: 5" REINFORCED CONCRETE SLAB OVER 6" BED OF CRUSHED ROCK, POUR SLAB TO FOUNDATION EDGE AND LEVEL WITH TOP OF FOUNDATION, ALLOWABLE TOLERANCE 1/4" IN 10' MAX; (CONTRACTOR WILL BE BACK BILLED FOR LABOR & MATERIAL IF 1/4" IN 10' MAX IS NOT **ACHIEVED)**;REINFORCE SLAB WITH 6x6-W2.1xW2.1 WELDED WIRE FABRIC (WWF) OR #4 BARS @ 24" OC; DO NOT SEAL; REFER TO STANDARD SLAB DETAILS ON SHEET S-501 AND DETAILS REFERENCED FOR REINFORCING CONNECTION TO FOUNDATION.
- (306) CONTROL JOINTS: SAW CUT CONTROL JOINTS, ALL JOINTS TO BE CLEANED AND FREE OF DEBRIS.
- ALIGN SAW CUTS WITH INSIDE SLAB CORNERS AND CENTERLINE (EACH WAY) OF COLUMNS SET ON SLAB.

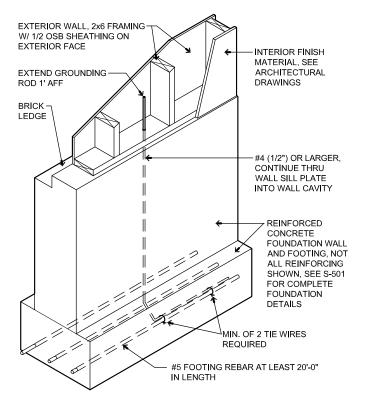
## **DIVISION 3 - CONCRETE** (Continued)

- (301) SPREAD FOOTING: 1'-8" REINFORCED CONCRETE FOOTING (TYPICAL); SEE (308) SIDEWALK: REINFORCED CONCRETE WALK WITH TURN-DOWN EDGES RETURNED TO BUILDING; CONNECT TO BUILDING FOUNDATION PER DETAILS WITH MAX. 2% CROSS SLOPE AWAY FROM BUILDING; SET TOP OF SIDEWALK EVEN WITH BRICK LEDGE AND RAISE AT ALL ENTRANCE AND EXIT DOORS, MAINTAIN LEVEL ACCESS AT ALL DOOR; PROVIDE TOOLED JOINTS USING BEST PRACTICES FOR CONCRETE FLAT WORK TO PREVENT/CONTROL CRACKING; SEE DETAILS SHEET S-501
  - (309) **GROUNDING ELECTRODE:** EMBED GROUNDING ELECTRODE IN FOUNDATION WALL, TIE TO REINFORCING BAR IN FOOTING, SEE DETAIL 1/S-101 FOR ADDITIONAL INFORMATION, COORDINATE EXACT LOCATION WITH ELECTRICAL SERVICE INSTALLATION.
  - SIMPSON HDU4-SDS2.5 HOLDOWN WITH 5/8" THREADED ROD EPOXIED INTO FOUNDATION 16".
  - $\langle 311 \rangle$  ADDITIONAL SLAB REINFORCING: PROVIDE 3 #4x3'-0" LONG BARS AT INTERIOR SLAB CORNERS AND AT THE END OF CONTROL JOINT
  - $\langle 312 \rangle$  **BLOCKOUT**: BLOCKOUT CONCRETE FOUNDATION WALL AT FREEZERS.

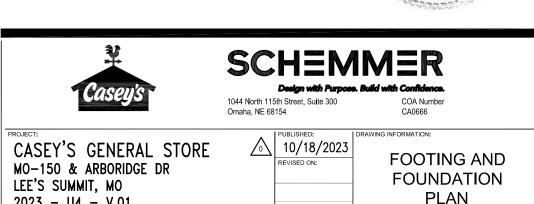
#### **DIVISION 6 - WOOD, PLASTICS, AND COMPOSITES** $\overline{601}$ NOT USED.

## **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

- **PERIMETER INSULATION:** PROVIDE 2" RIGID INSULATION BOARD UNDER SLAB WITHIN 24" OR FOUNDATION, RETURN INSULATION BOARD DOWN INSIDE FACE OF FOUNDATION WALL TO TOP OF FOOTING
- $\langle 702 \rangle$  **UNDER SLAB INSULATION:** PROVIDE 2" RIGID INSULATION BOARD UNDER PORTIONS OF SLAB INDICATED (COOLERS w/o INSULATED FLOORS) VERIFY INSULATION EXTENDS 24" BEYOND COOLER EXTERIOR







**Grounding Electrode Detail** No Scale

MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01 07164.057

PLAN JJH

2023 - U4 - V.01

KMW

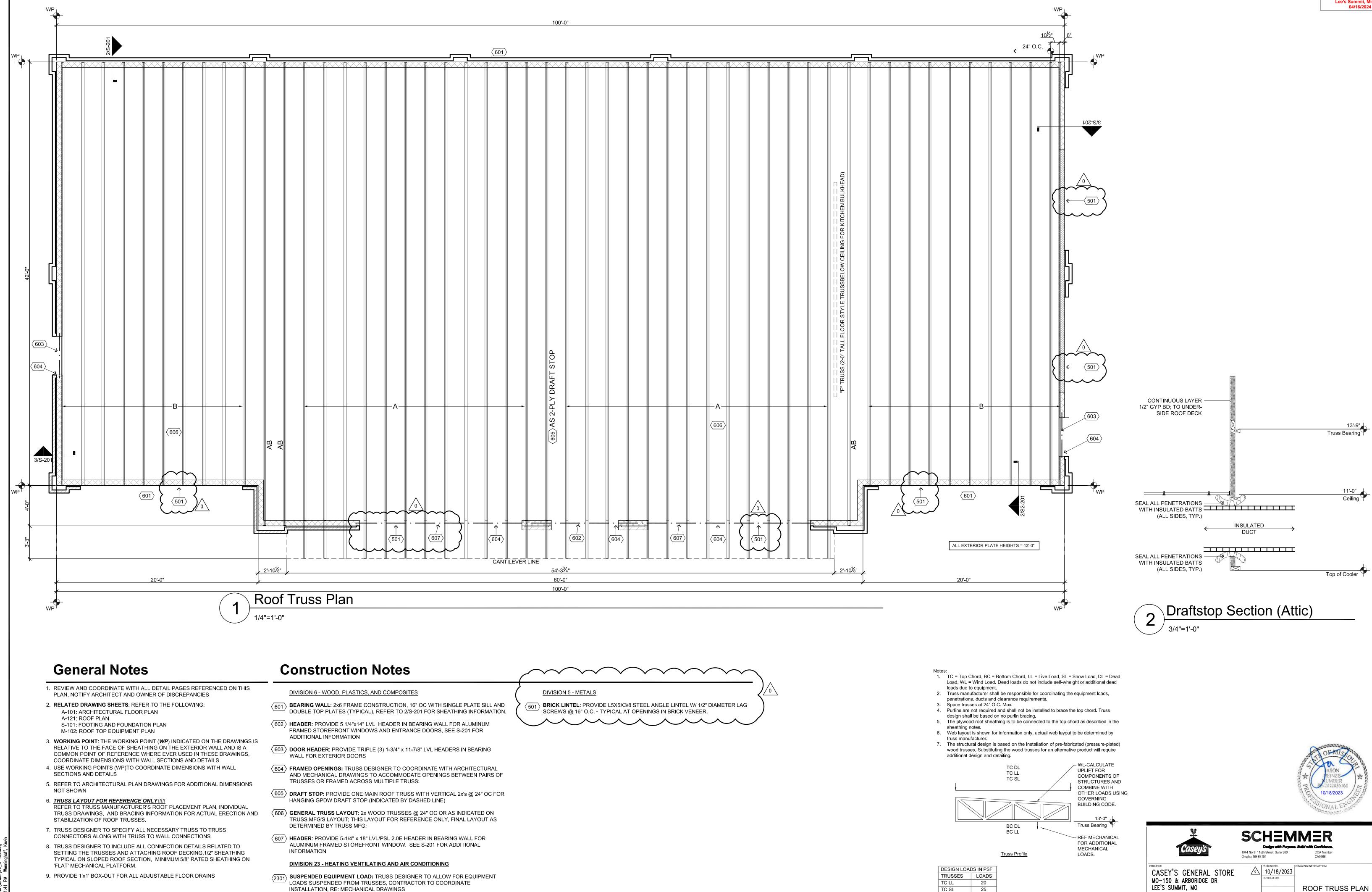
JJH

S-102

PROJECT NUMBER:

07164.057

TC DL

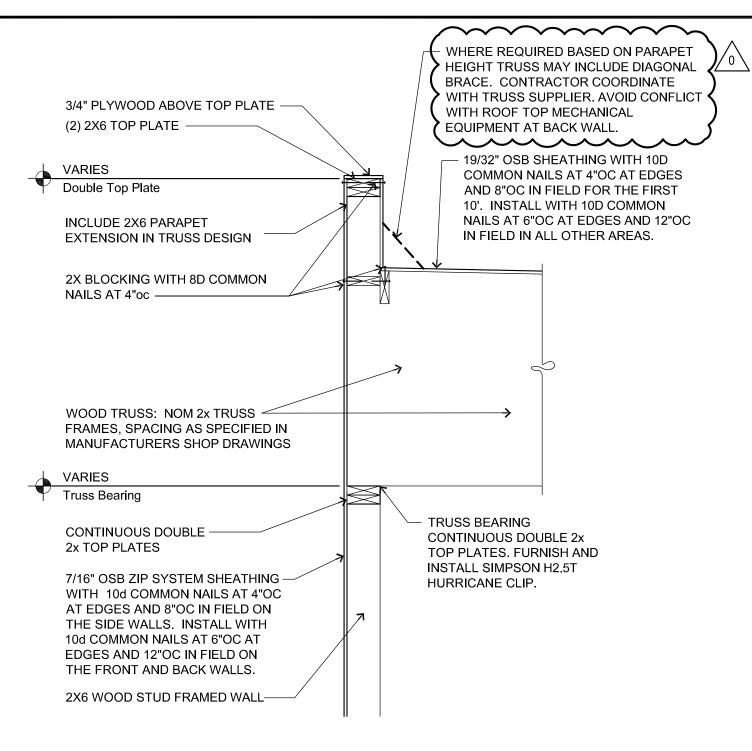


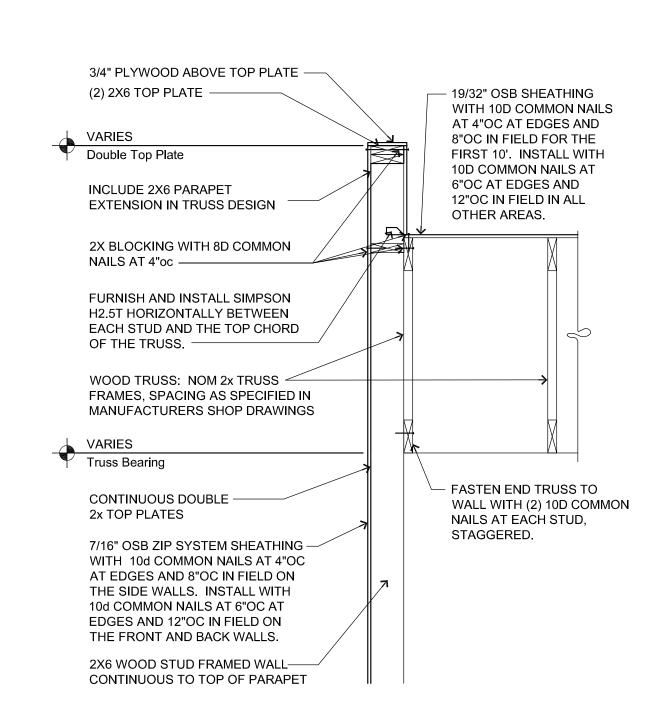
P-\07164057\ CAD\Struct\06\ S-102 dwn

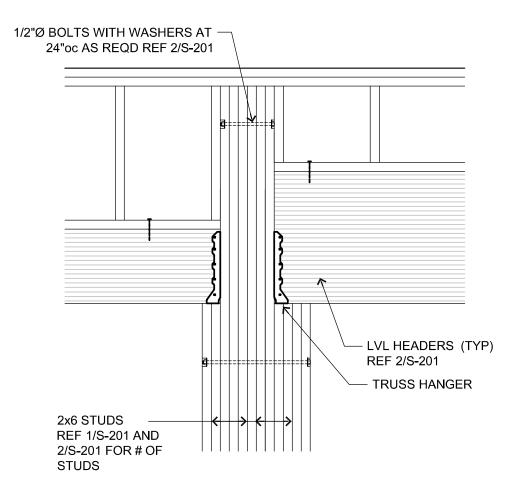
ROOFTOP EQUIPMENT LOADS: TRUSS DESIGNER TO ALLOW FOR ROOF TOP

COORDINATE INSTALLATION, RE: MECHANICAL DRAWINGS

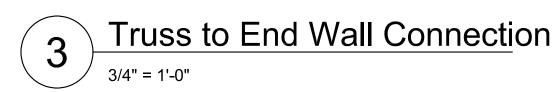
LOADS FROM MECHANICAL EQUIPMENT SET ON ROOF, CONTRACTOR TO



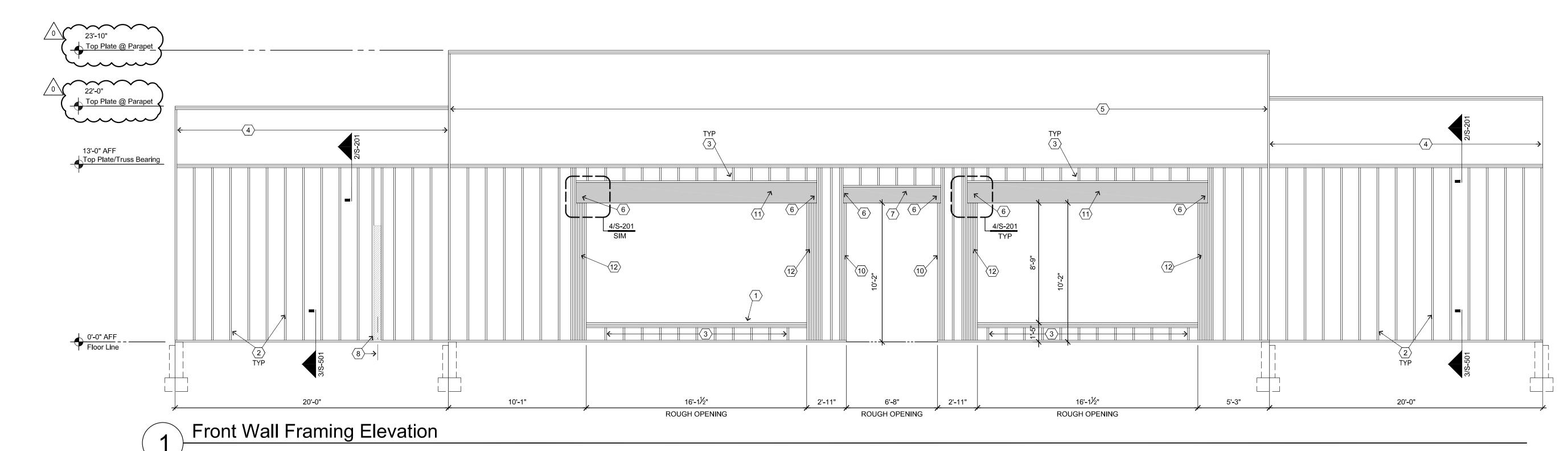












(11) 5-1/4" x 18" LVL/PSL 2.0E HEADER.

 $\langle 12 \rangle$  (6) JACK STUDS AND (3) FULL HEIGHT STUDS.

## Plan Notes

- (3) 2X6 STUDS AT SILL OF WINDOW OPENINGS
- 2X6 STUDS AT 16"OC WHERE STUDS ARE FULL HEIGHT OF WALL
- $\langle 3 \rangle$  2X6 STUDS AT 16"OC MAX ABOVE AND BELOW OPENINGS
- 2X WOOD TRUSSES DESIGNED BY OTHERS, CONTINUE WALL SHEATHING ON TRUSSES TO TOP OF PARAPET, REFER TO MANUFACTURERS SHOPS AND INSTALLATION INSTRUCTIONS

 $\left\langle 5 \right\rangle$  2X WOOD TRUSSES DESIGNED BY OTHERS, TRUSSES HANG OVER FRONT WALL

- SHEATHING WITH DROP EXTENSION OVER ENTRANCE, REFER TO MANUFACTURERS SHOPS AND INSTALLATION INSTRUCTIONS

  TIE HEADERS TO SUPPORTS WITH SIMPSON HUC612 AT EACH END. ATTACH HUC
- TIE HEADERS TO SUPPORTS WITH SIMPSON HUC612 AT EACH END. ATTACH HUC HANGER WITH MAXIMUM NAILING PER SIMPSON (22-16D INTO FACE, 8-16D INTO JOIST)
- (7) 5 1/4" x 14" LVL/PSL 2.0E HEADER.
- (8) CENTER LINE PARTITION WALL BEYOND. PROVIDE ADDITIONAL STUDS AS SHOWN RE. ARCH. DRAWINGS FOR LOCATIONS, TYPICAL AT ALL POINT DIMENSIONS.
- $\langle 9 \rangle$  (5) JACK STUDS AND (2) FULL HEIGHT STUDS
- (2) JACK STUDS AND (2) FULL HEIGHT STUDS

## **General Construction Notes**

- INSULATE PARTITION SPACES BEFORE ATTACHING EXTERIOR SUB-SIDING.
- 2. INSULATE CORNERS BEFORE APPLYING EXTERIOR SUB-SIDING.
- 3. FRONT EAVE STRUT TO BE INSULATED.
- 4. VERIFY ROUGH OPENING OF DOOR AND WINDOWS SHOWN ON ELEVATION
  1/A-601
- 5. CONTRACTOR TO SUPPLY AND INSTALL 30 MIL VINYL SEAL FLASHING AT ALL LINTELS. PAINT LINTELS PRIOR TO INSTALLATION.
- CONTRACTOR TO SUPPLY AND INSTALL COTTON WEEP ROPE AT 24"OC TIED ON FIRST WALL TIE ABOVE ALL LINTELS.
- 7. NAILING NOT OTHERWISE NOTED SHALL BE PER TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE.

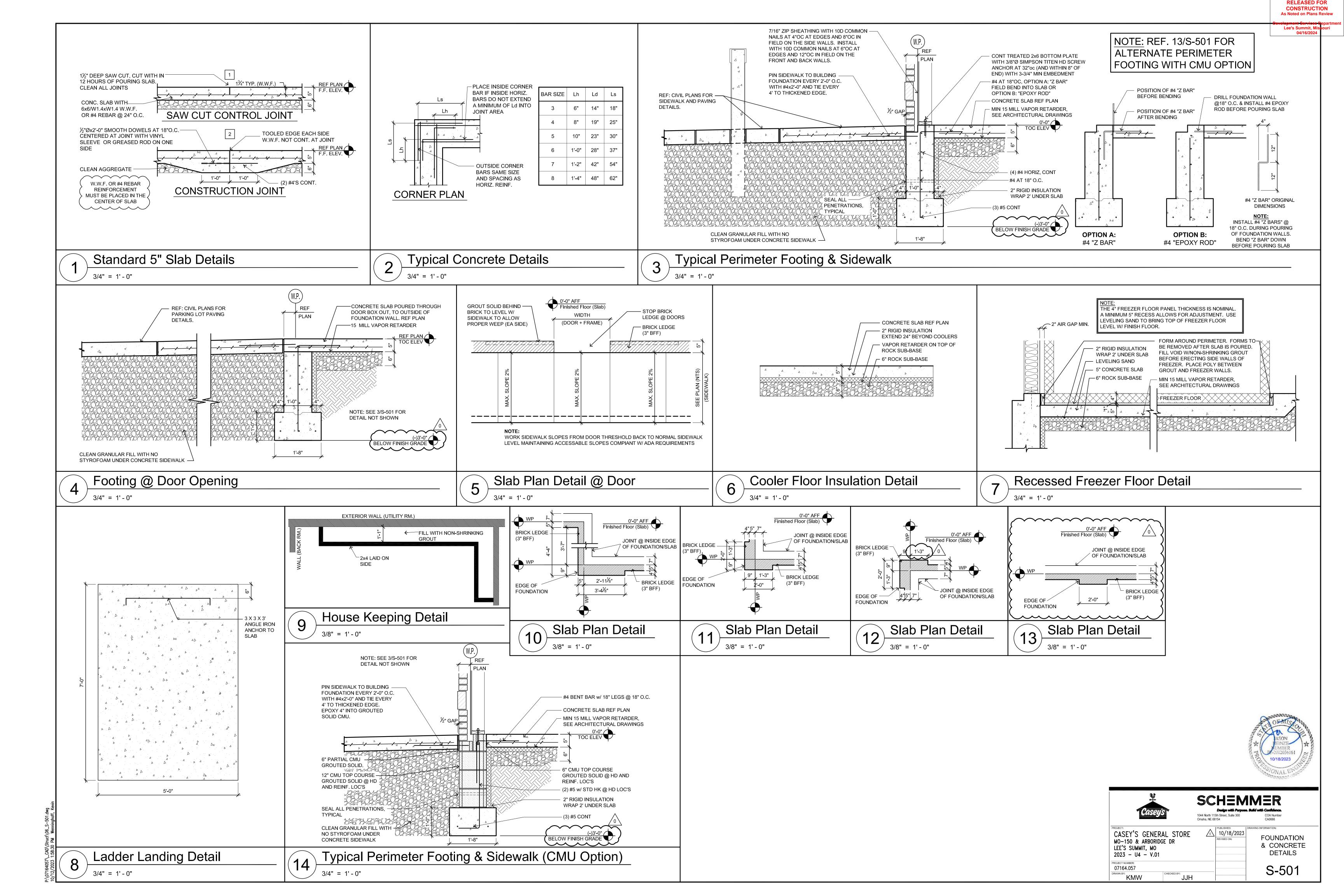
NOTE:
WALL FRAMING LUMBER SHALL BE DOUGLAS
FIR-LARCH #2 OR BETTER WITH Fb=850 PSI
AND E=1,600 KSI (UNLESS NOTED OTHERWISE)

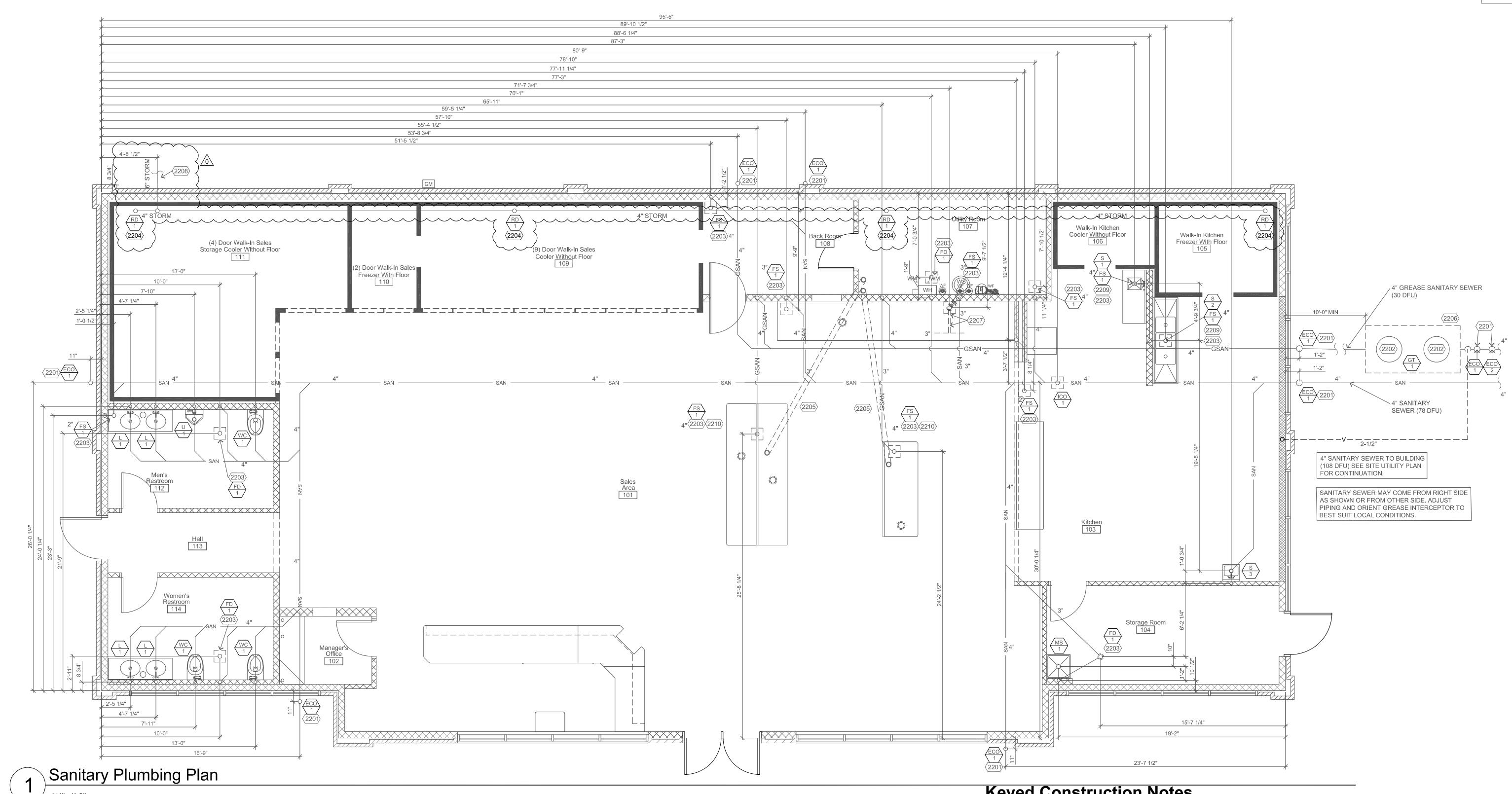




JJH

KMW





## **Symbols**

GREASE SANITARY SEWER SANITARY SEWER PLUMBING VENT

## **General Notes**

REFER TO THE FOLLOWING SHEETS FOR RELATED INFORMATION

S-101: FOOTING AND FOUNDATION PLAN M-SERIES: MECHANICAL EQUIPMENT LOCATIONS P-102: SUPPLY PLUMBING PLAN P-501: PLUMBING DETAILS AND SCHEDULE

## **General Construction Notes**

- 1. ALL PLUMBING MATERIALS AND INSTALLATION TO MEET STATE AND LOCAL CODES AND REGULATIONS
- 2. ALL DRAINS AND FIXTURES TO BE VENTED
- 3. FLOOR DRAINS AND FLOOR SINKS 1/2" BELOW FINISHED FLOOR WITH BRASS COVER. (ONLY WHERE REQUIRED)
- 4. CLEAN OUTS SHALL NOT BE INSTALLED IN SALES AREA
- 5. PLUMBING CONTRACTOR TO USE ONLY ROOFING MANUFACTURERS CAULKING ON ROOF PENETRATIONS.
- 6. INSTALL ADJUSTABLE FLOOR DRAINS IN ROOMS THAT HAVE CERAMIC FLOOR TILE.
- 7. ALL PENETRATIONS THROUGH FOUNDATION WALLS ARE TO BE SEALED.
- 8. INSTALL FLOOR (MOP) BASIN AFTER TILE FLOOR IS INSTALLED.
- 9. VERIFY W/ PLUMBING & HEALTH CODES IF SINK S/1 NEEDS TO HAVE INDIRECT PLUMBING.
- 10. ALL SANITARY LINES SHOULD SLOPE 1/4" PER FOOT.
- 11. RTU CONDENSATE LINES TO GUTTER TO BE INSTALLED BY PLUMBER REFER TO SHEET A-121 FOR CONDENSATE LINE SIZES AND LOCATIONS SUPPORTS
- 12. CONDENSATION LINES: PLUMBER TO SUPPLY & INSTALL 3/4" PVC DRAIN LINES TO DIVERT CONDENSATION FROM ROOF TOP UNITS ACROSS FLAT ROOF. DRAIN WILL TERMINATE ON SHINGLED PORTION OF ROOF WHERE THE WATER WILL IN TURN FLOW TO THE GUTTER SYSTEM.

## **Keyed Construction Notes**

## **DIVISION 22 - PLUMBING**

- INSTALL CLEANOUTS LOCATED IN SIDEWALK, INTERIORS, OR PAVED AREAS FLUSH W/ FINAL FINISHED SURFACE HEAVY CAST IPON BRASE CAST (C.  $^{
  angle}$  W/ FINAL FINISHED SURFACE, HEAVY CAST IRON BRASS CAP TYP.
- INSTALL MANHOLES FOR GREASE TRAP FLUSH WITH FINAL FINISH OF PAVING
- 12" x 12" BOX OUT FOR ADJUSTABLE FLOOR DRAINS, FLOOR SINKS, FLOOR PIPES  $\langle 2203 \rangle$  AND CLEANOUTS, FLOORING CONTRACTOR WILL SET PROPER HEIGHT.
- $\langle 2204 \rangle$  PVC STORM DRAIN PIPING INSTALLED AT 1/8" SLOPE. PIPING TO BE INSTALLED AS HIGH AS POSSIBLE ABOVE COOLERS.
- (2205) INSTALL 4" PVC UNDERGROUND TO BENEATH CABINET ISLAND LOCATIONS. PROVIDE TWO 45° ELBOWS OR LONG SWEEP 90°'S FOR TURN UP AT EACH END.
- $\langle 2206 \rangle$  GREASE TRAP TO BE PROCURED AND INSTALLED BY CONTRACTOR. GREASE TRAP TO BE PROCURED FROM SCHIER PRODUCTS, UTILIZE THE FOLLOWING URL: https://schierproducts.com/stocking-dealers CONTACT SCHIER PRODUCTS WITH ANY QUESTIONS OR CASEY'S TEAM MEMBER IF THERE IS AN ISSUE.
- (2) 3/4" INSULATED DRAIN LINES (INSTALLED BY HVAC) RAN FROM FOUNTAIN DRINK MACHINES TO 4" PVC (SUPPLIED AND INSTALLED BY PLUMBER). SEE DETAIL ON SHEET P-501
- \$\sqrt{2208}\$ **STORM WATER CONNECTION:** COORDINATE DOWNSPOUT LOCATIONS, PRIOR TO PLACEMENT OF SIDEWALK ROUGH IN PORTIONS OF STORM WATER COLLECTION PIPING BELOW SIDEWALKS, TERMINATE STUB-UPS FOR DOWNSPOUTS LEVEL WITH
- $\langle 2209 \rangle$  SINKS S-1 AND S-2 SHALL DRAIN INDIRECTLY TO FLOOR SINK FS-1.
- COORDINATE FINAL FLOOR SINK LOCATION WITH CABINET LOCATION AND TROUGH DRAIN LINE(S).





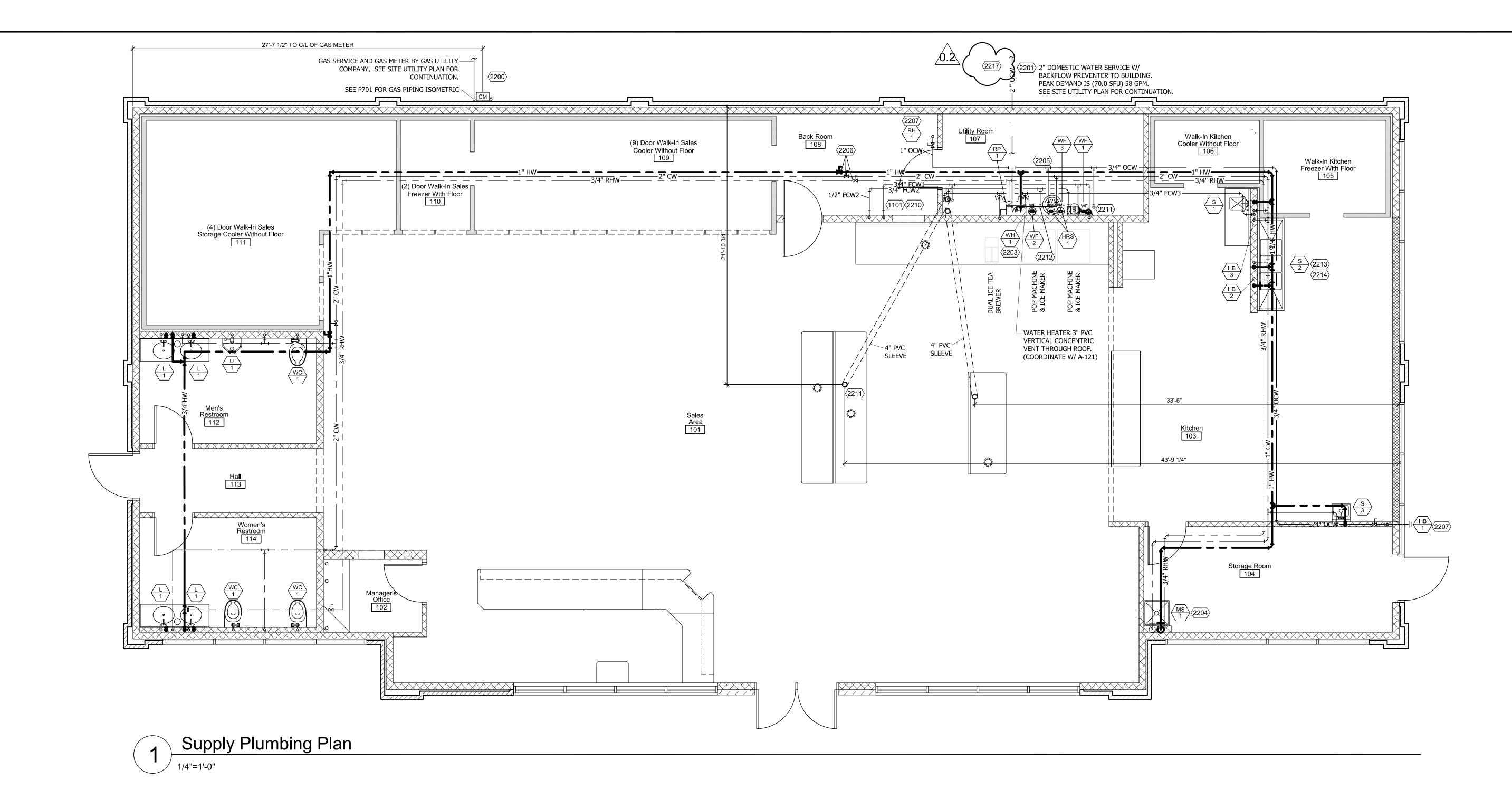
JEK

CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR 0 10/11/2023 LEE'S SUMMIT, MO 2023 - U4 - V.01 PROJECT NUMBER: 07164.057

SANITARY PLUMBING PLAN

P-101





## **Symbols**

G NATURAL GAS LINE

CW COLD WATER LINE

FCW1 POP & CARBONATOR

FCW2 FOLLETT & DRINKING FOUNTAIN

HOT BEVERAGES & VEG. SINK (PEX)

OCW OUTSIDE COLD WATER LINE

HW HOT WATER LINE

## **General Notes**

REFER TO THE FOLLOWING SHEETS FOR RELATED INFORMATION

RHW RECIRCULATED HOT WATER LINE

A-101: ARCHITECTURAL PLAN
A-121: ROOF PLAN
S-101: FOOTINGS / FOUNDATION & SLAB
M-SERIES: MECHANICAL EQUIPMENT LOCATIONS
P-101: SANITARY PLAN
P-501: PLUMBING DETAIL AND SCHEDULE
P-601: SANITARY RISER DIAGRAM
P-701: SUPPLY RISER DIAGRAM

## **General Construction Notes**

- ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS.
- 2. WATER LINES TO FIXTURES OR EQUIPMENT TO HAVE VALVES AND CHROME ESCUTCHEONS.
- 3. INSULATE ALL WATER LINES ABOVE THE CEILING, COLD WATER LINES TO INCLUDE VAPOR BARRIER JACKET.
- 4. ALL WATER LINES TO BE LOCATED IN THE INTERIOR WALLS. EXTERIOR WALL WATER LINES REQUIRE INSULATION PROTECTION.
- 5. PLUMBING CONTRACTOR TO USE ONLY ROOFING MANUFACTURER'S CAULKING ON ROOF PENETRATIONS.
- 6. SNACK CENTER EQUIP. SUPPLY LINES REQUIRE BALL VALVE SHUT-OFFS. PLUMBER TO TERMINATE WATERLINES TO BEVERAGE EQUIPMENT.
- 7. PROVIDE BACKFLOW PREVENTERS AS REQUIRED BY CODE AUTHORITIES.
- 8. ALL SUPPLY LINES TO BE INSULATED ABOVE CEILING.
- 9. 3" PVC SLEEVE THROUGH FOUNDATION TO BE INSTALLED FOR IRRIGATION SYSTEM VERIFY LOCATION WITH CASEY'S CONSTRUCTION SUPERVISOR.
- 10. IF LOW PRESSURE GAS IS NOT AVAILABLE, GENERAL CONTRACTOR TO NOTIFY CASEY'S HVAC SUPERVISOR IMMEDIATELY.
- 11. PLUMBER TO INSTALL REQUIRED VENTING FOR WATER HEATER.

## **Keyed Construction Notes**

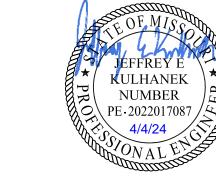
- Division 11 Equipment

  CARBONATOR: PER CASEY'S EQUIP SPEC, W/ BACK FLOW PREVENTER, INSTALLED ON TOP OF SYRUP BACK: NO COPPER PIPING BETWEEN
- INSTALLED ON TOP OF SYRUP RACK; NO COPPER PIPING BETWEEN CARBONATOR AND WATER STOP. 1-PER UNIT. WATTS NO. SD-3 OR EQUAL. MOUNT WATER VALVE ON RIGHT SIDE OF POP MACHINES, ON BACKSIDE OF REFRESHMENT CENTER WALL.

## Division 22 - Plumbing

- GAS SERVICE MAIN 2.5" BLACK SCHEDULE 40 (THREADED & COUPLED)SCREWED PIPE AND 150# BLACK MALLEABLE IRON FITTINGS. VERIFY WITH LOCAL, STATE AUTHORITY.
- WATER SERVICE MAIN 2 " CTS, HDPE, SDR9, C5-200 WITH TRACER WIRE, INSULATED THRU CONCRETE WITH BALL VALVES ON BOTH SIDES OF METER. VERIFY WITH LOCAL, STATE AUTHORITY.
  - USE 2" TYPE 'K' COPPER LINE FOR MAIN WATER SERVICE AT CONTAMINATE BUILDING SITES. (VERIFY)
- WATER METER: TEST WATER SERVICE PRESSURE, IF EXCEEDS 80 PSI INSTALL REGULATOR AT SERVICE ENTRANCE.
- UNION AND VALVES REQUIRED ON BOTH INLET/OUTLET LINES OF WATER HEATER.
- FAUCET TO FLOOR BASIN (MS-1) REQUIRES ANTI-SIPHON, FAUCET TO BE @28" HEIGHT WITH 8" SPLIT NEXT TO WALL. REFER TO DETAIL ELEVATION ON SHEET P-501 AND MS-1 IN THE PLUMBING SCHEDULE.
- (2205) ALL PLUMBING AND PIPING IN UTILITY ROOM TO BE SURFACE MOUNTED.
- RESTROOM SUPPLY: ISOLATE COLD AND HOT WATER LINES TO RESTROOM AREA W/ BALL VALVES INSTALLED ABOVE CEILING.

- (2207) HOSE BIB: SUPPLY LINE AND FREEZE-LESS EXTERIOR HOSE BIB, PROVIDE ISOLATED SUPPLY LINE FOR EXTERIOR FAUCETS W/ MASTER BALL VALVE SHUT OFF ABOVE CEILING AND DRAIN BACK VALVE TO SINK TO CLEAR LINE OF WATER. REFER TO A-121 FOR ROOF HYDRANT LOCATION DIMENSIONS.
- (2210) CARBONATOR SUPPLY: RUN SUPPLY DOWN WALL CAVITY TO CARBONATOR ON SHELF
- COFFEE & REFRESHMENT SUPPLY LINES: COFFEE MANIFOLD IN CABINET, REFRESHMENT MANIFOLD ON WALL BEHIND SODA MACHINES. MANIFOLDS TO BE SUPPLIED WITH FILTERED COLD WATER.
- (2212) ICE MAKER SUPPLY LINES: MANIFOLDS TO BE SUPPLIED WITH FILTERED COLD
- WATER SUPPLY LINES TO INCLUDE UNIONS AFTER BALL VALVE TO TRIPLE SINK FAUCET.
- (2214) NO PLUMBING ALLOWED UNDER TRIPLE SINK DRAIN BOARDS.
- (2217) CONTRACTOR TO PROVIDE PRESSURE REDUCING VALVE AT WATER SERVICE



¥			IMER
Casey's	1044 North 115th Str Omaha, NE 68154	•	e. Build with Confidence. COA Number CA0666
CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	10	0/18/2023 bed on: /05/2024	SUPPLY PLUMBING PLAN
PROJECT NUMBER: 07164.057			D_102

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## **General Water Filter Notes**

- 1. WATER FILTER SYSTEM WILL BE REQUIRED 2. INSTALL BOTH INLET & OUTLET VALVES WITH PIPE IN BETWEEN (AS
- SHOWN) SEE DETAIL P-501-4 3. USE CHROME ESCUTCHEONS (TYP)

## **Keyed Construction Notes**

#### **DIVISION 01 - GENERAL REQUIREMENTS**

(101) WOOD STUD WALL. SEE A-101, FOR WALL TYPE AND LAYOUT, A-601 FOR FINISH. PROVIDE BLOCKING FOR SINK.

#### **DIVISION 06 - WOOD, PLASTICS AND COMPOSITES**

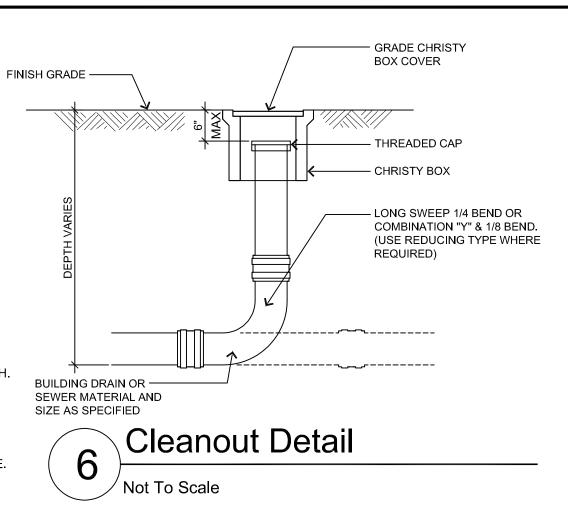
- SWANSTONE SOLID SURFACE COUNTERTOP WITH INTEGRAL BOWL, INCLUDE 4" H. BACKSPLASH AGAINST WALLS AND 7" APRON AND FRONT AND OPEN SIDE. COLOR SELECTED BY OWNER.
- SWANSTONE SOLID SURFACE ANGLED BRACE ANCHORED TO CONCEALED BLOCKING IN WALL. COLOR SELECTED BY OWNER.
- $\langle 603 \rangle$  2X WOOD BLOCKING CONCEALED IN WALL.

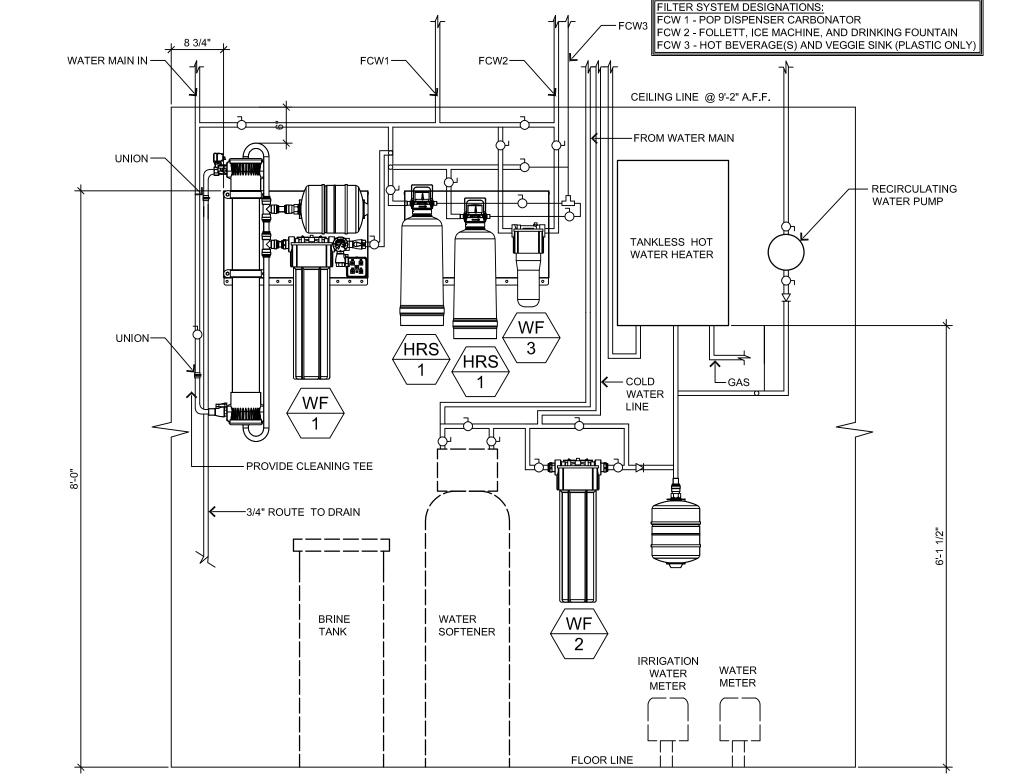
**DIVISION 22 - PLUMBING** 

- 604 2X LEDGER AT WALLS, ANCHORED TO BLOCKING IN WALL.
- 605 SOLID SURFACE ADA COMPLIANT APRON (PIPE ENCLOSURE) ANCHORED TO ANGLED BRACE AS REQUIRED, MATCH COUNTERTOP FINISH.

## FAUCET SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR.

(2202) COOLER CONDENSATE LINE. INDIRECT DRAIN TO BELL HUB WAIR GAP LOCATED UNDER SINK.

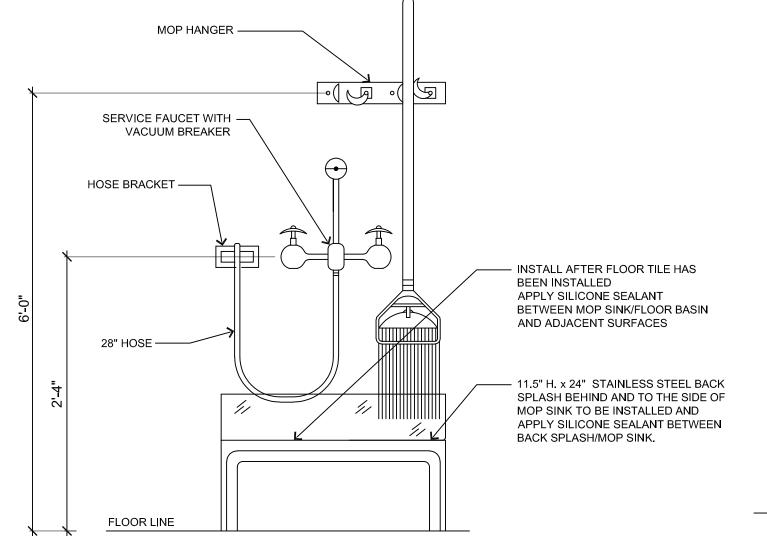


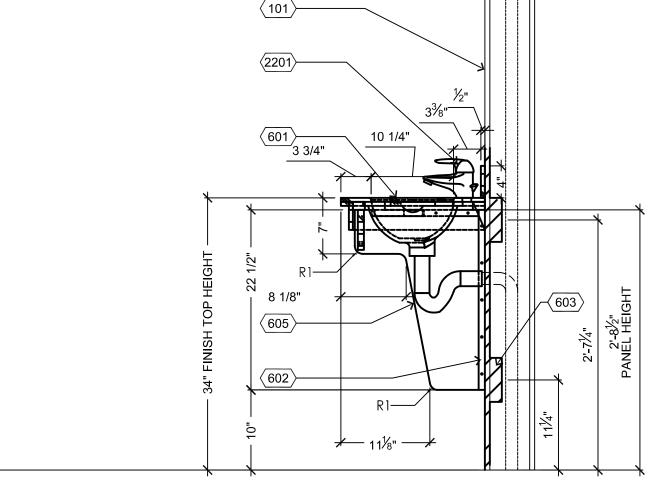


#### - INSULATED DRAIN LINES FROM SODA TOP OF CABINET -INSIDE OF < 5" REQUIRED BETWEEN TOP OF— CABINET AND TOP OF PVC CABINET 🔍 4" PVC MOUNTED TO REAR OF CABINET-- PIPE CLAMPS SECURELY MOUNT PVC INSIDE OF PVC END CUT @ 45° TO CREATE 1" AIR -GAP TO FLOOR SINK (FACE CUT AWAY FROM CABINET -FLOOR SINK WITH 3/4 GRATE

## Soda Machine Drain Detail

# Water Filter System Detail



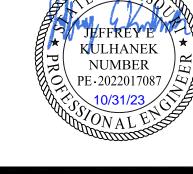


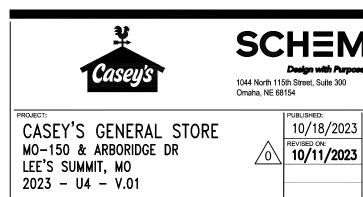
Sink Support Detail Mop Sink Detail

Not Used

PLUMBING FIXTURE SCHEDULE

									PL	UMBING	G FIXTURE SCHEDULE
Г	TEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	WASTE DFU	WATER HWSFU	WATER CWSFU	WATER SFU	DESCRIPTION
(	ECO 1	CLEANOUT	_	_		_	_		_		SIOUX CHIEF LIGHT COMMERCIAL CLEANOUT. SQUARE ADJUSTABLE TOP. PVC BODY. MODEL # 834-3PNQ.
	ECO 2	CLEANOUT (SAMPLING PORT)	4"-6"	_		_	_		_		SIOUX CHIEF LIGHT COMMERCIAL CLEANOUT. SQUARE ADJUSTABLE TOP. PVC BODY. MODEL # 834-3PNQ.
	FD 1	FLOOR DRAIN	2"	1 ½"		_	3		_		SIOUX CHIEF LIGHT COMMERCIAL FLOOR DRAIN WITH 6.5" NICKEL BRONZE SQUARE TOP. MODEL #832-36PNQ. DRAIN SHALL BE PVC BODY WITH PVC ADJUSTABLE SUMP AND NICKEL BRONZE SQUARE TOP. VERIFY IF FUNNEL TOP NEEDED.
$\overline{\ }$	FP 1	FLOOR PIPE	3"	2"		_	5		_		2" P-TRAP BELOW FLOOR WITH 2"x4" BELL. INSTALL BELL AFTER CABINET IS NET. (IN CABINETS)
$\vdash$	FS 1	FLOOR SINK	2" 3" 4"	1 ½" 2" 2"		_	3 5 6		_		SIOUX CHIEF LIGHT COMMERCIAL FLOOR SINK WITH GRATE. MODEL #861-3PD. SINK SHALL BE PVC BODY WITH PVC ADJUSTABLE GRATE.
$\overline{}$	GT 1	GREASE TRAP	_	_		_	_		_		SCHIER GB-75 INTERCEPTOR, GREASE INTERCEPTOR TO BE PROCURED AND INSTALLED BY CONTRACTOR, UTILIZE THE FOLLOWING URL: https://schierproducts.com/stocking-dealers.CONTACT SCHIER PRODUCTS WITH ANY QUESTIONS OR CASEY'S TEAM MEMBER IF THERE IS AN ISSUE. GREASE INTERCEPTOR SHALL BE LOCATED OUTSIDE.
$\overline{}$	HB 1	HOSE BIBB	_	_	3/4"	_	_		2.25	2.25	WOODFORD 65 OR STATE APPROVED EQUAL ROUGH-BRONZE WALL FAUCET FOR LIGHT COMMERCIAL APPLICATIONS, EXTERNAL 18" LENGTH, KEYED, VACUUM BREAKER WITH VALVE INSTALLED ON MAIN LINE FEEDING HOSE BIBB.
(	HB 2	INTERIOR HOSE BIBB/FAUCET	_	_	3/4"	3/4"	_	2.25	2.25	3	LOCATED WITHIN 2'-0" OF CHEMICALS ON LEFT SIDE OF SINK (S-2). BACK FLOW DEVICES FOR CHEMICAL DISPENSERS SHALL COMPLY WITH ASSE 1055 OR SHALL BE EQUIPPED WITH AN APPROVED BACK FLOW PREVENTOR.
$\langle$	HB 3	INTERIOR HOSE BIBB/FAUCET	_		3/4"	-	_		2.25	2.25	LOCATED ON RIGHT SIDE OF SINK (S-2). BACK FLOW DEVICES FOR CHEMICAL DISPENSERS SHALL COMPLY WITH ASSE 105 OR SHALL BE EQUIPPED WITH AN APPROVED BACK FLOW PREVENTOR.
(	HRS 1	WATER FILTER	_	_	3/4"	_	_		_		HRS-200 W/ METER & HRS-200 HARDNESS REDUCTION SYSTEM. ALL PIPING & VALVES AFTER HRS FILTERS MUST BE NON-METALLIC.
$\overline{\ }$	ICO 1	INTERIOR CLEANOUT	_	_		_	_		_		WADE, 4" PVC ADJUSTABLE HOUSING. ROUND, FLUSH FITTING BRASS CAP.
$\overline{}$	L 1	LAVATORY	2"	2"	1/2"	1/2"	1	1.5	1.5	2	(HANDICAPPED): SWANSTONE 37" x 22" INTEGRAL BOWL, SUPPLIED BY OWNER, REFER TO INSTALLATION DETAIL 2/P-501. T&S FAUCET # EC-3104-VF05
$ \langle $	MS 1	MOP SINK/ FLOOR BASIN	3"	2"	3/4'	3/4"	2	2.25	2.25	3	FIAT MSB-2424 MOLDED STONE MOP SINK/FLOOR BASIN W/ #302 COMBINATION DOME STRAINER & LINT BASKET, COLOR #219 - #830-AA CHROME PLATED SERVICE FAUCET W/ VACUUM BREAKER, T&S #B-0665-CR-BSTR, INTEGRAL STOPS, WALL BRACE, PAIL HOOK, AND 3/4" HOSE THREADED ON SPOUT. REFER TO DETAIL P-501 #3. INSTALL AFTER THE FLOOR TILE IS INSTALLED AND SEAL. PLUMBER TO INSTALL STAINLESS STEEL BACK SPLASH BY OWNER
	RH 1	ROOF HYDRANT			3/4"	_	_		2.25	2.25	FREEZELESS ROOF HYDRANT - WOODFORD MODEL # RHY2-MS
	RD 1	ROOF DRAIN	4"	_	<del></del>	_	_		_		ZURN Z100 OR EQUAL. PROVIDE WITH CAST IRON DOME AND UNDERDECK CLAMP.
	RP 1	RECIRC. PUMP	-	<del>-</del>	<del></del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>		TACO 007-SF5 CARTRIDGE STYLE, IN-LINE, SINGLE STATE CIRCULATOR PUMP.
(	S 1	VEGETABLE SINK	2"	2"	3/4"	3/4"	3	3	3	4	EAGLE/METAL MASTERS 314-16-1-24L, LH DB, VEGETABLE SINK INCLUDE STANDARD FAUCET/ADDITIONAL FAUCET TO BE INCLUDED AS FILTER WATER FOR HEATED DISPLAY CABINETS. MANUFACTURE: T&S MODEL #CGS-1141-2V22CR: SINGLE PANTRY FAUCET, DECK MOUNTED, RIGID GOOSE NECK, STREAM REGULATOR #SO# 2981052
$\overline{\ }$	S 2	3 COMPARTMENT SINK	2"	2"	3/4"	3/4"	3	3	3	4	JOHN BOOS #CGS-3PB1620-2D18-2F THREE COMPARTMENT SINK WITH RIGHT HAND DRAIN BOARD. EACH COMPARTMENT SHALL HAVE A 16" X 20" BOWL SIZE. SINK SET AT $41\frac{1}{2}$ " HEIGHT. CONSTRUCTION SHALL BE WELDED 300 SERIES STAINLESS STEEL WITH ADJUSTABLE BULLET FEET FOR LEVELING. WITH T&S MODEL #B-0175-CRBJ-CGS; COMMERCIAL GRADE FAUCET MODEL # B-0665-BSTP-CVB, WALL-MOUNT, 8" CENTERS, 8" SWING SPOUT.
$\overline{\ }$	$\frac{S}{3}$	HAND SINK	2"	2"	1/2"	1/2"	1	1.5	1.5	2	JOHN BOOS HAND SINK. FAUCET MODEL T&S MODEL # CGS-1141-2V22CR
(		URINAL	2"	2"	3/4"	_	4		5	5	(HANDICAPPED): TOTO UT447-03 "FLUSHOMETER" WALL MOUNT URINAL, VITREOUS CHINA, 1.0 GPF WASHOUT URINAL W/ ¾" TOP SPUD INLET, 2" I.P.S. INTEGRAL TRAP; TOTO ELECTRONIC "FLUSHOMETER". INSTALL TO MEET ADA REQUIREMENTS. WHITE
(	WC 1	WATER CLOSET	4"	2"	1"	_	4		10	10	(HANDICAPPED): TOTO CT 705L "FLUSHOMETER" VITREOUS CHINA FLOOR-MOUNTED ELONGATED FRONT TOILET W/ 18" HIGH BOWL, 1 1/2" SPUD, BOLT CAPS, 1.6 GAL. FLUSH, SIPHON JET FLUSH ACTION; TOTO ELECTRONIC "FLUSHOMETER" VALVE; OLSONITE MODEL: 10SSC ELONGATED, OPEN FRONT SEAT, LESS COVER, WHITE.
(	WCO 1	WALL CLEANOUT	_	_		_	_		_		WADE #W-8453-R6, WITH BRASS PLUG AND ROUND STAINLESS STEEL SECURED ACCESS COVER. (ALTERNATE JOSAM NO. 58713)
WF 1	WF 1	WATER FILTER	_	_	3/4"	_	_		_		VIZION VZN-441V-T5 WATER FILTER SYSTEM. PROVIDE MINIMUM OF 40" CLEARANCE BELOW FILTER SYSTEM FOR REQUIRED MAINTENANCE. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. FILTER CARTRIDGE TO BE DATE LABELED. FLUSH FILTER PRIOR TO FINAL CONNECTIONS TO PLUMBING SYSTEM, ACCORDING TO INSTALLATION INSTRUCTIONS.
	WF 2	WATER FILTER	_	_	3/4"	-	_		-		H2FLOW #HTF WATER FILTER INSTALLED TO SERVICE TANKLESS WATER HEATER. PROVIDE MINIMUM OF 3" CLEARANCE BELOW FILTER SYSTEM FOR REQUIRED MAINTENANCE. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. FILTER CARTRIDGE TO BE DATE LABELED.
$\mid$	WF 3	WATER FILTER			3/4"	_			_		SI-LX SCALE INHIBITOR SYSTEM TO SERVICE ICE MACHINE.
$\overline{\ }$	WH 1	WATER HEATER	_	3		_	_		_		RHEEM COMMERCIAL TANKLESS WATER HEATER, NATURAL GAS POWERED, 11,000 - 199,000 BTU, MODEL RTGH-C95DVL. PLUMBER TO INSTALL 3" VERTICAL CONCENTRIC VENT, TO EXIT THROUGH ROOF. CONDENSATE TO BE PVC ONLY, NO COPPER.
			_		1/2"	_		<b></b>	0.5	0.5	CAPPUCCINO, SELF SERVE FOUNTAIN DRINK MACHINE, COFFEE, ICE COFFEE, FROZEN CARBONATED BEVERAGE, ICE TEA BREWER, ICE FOLLET MACHINE.

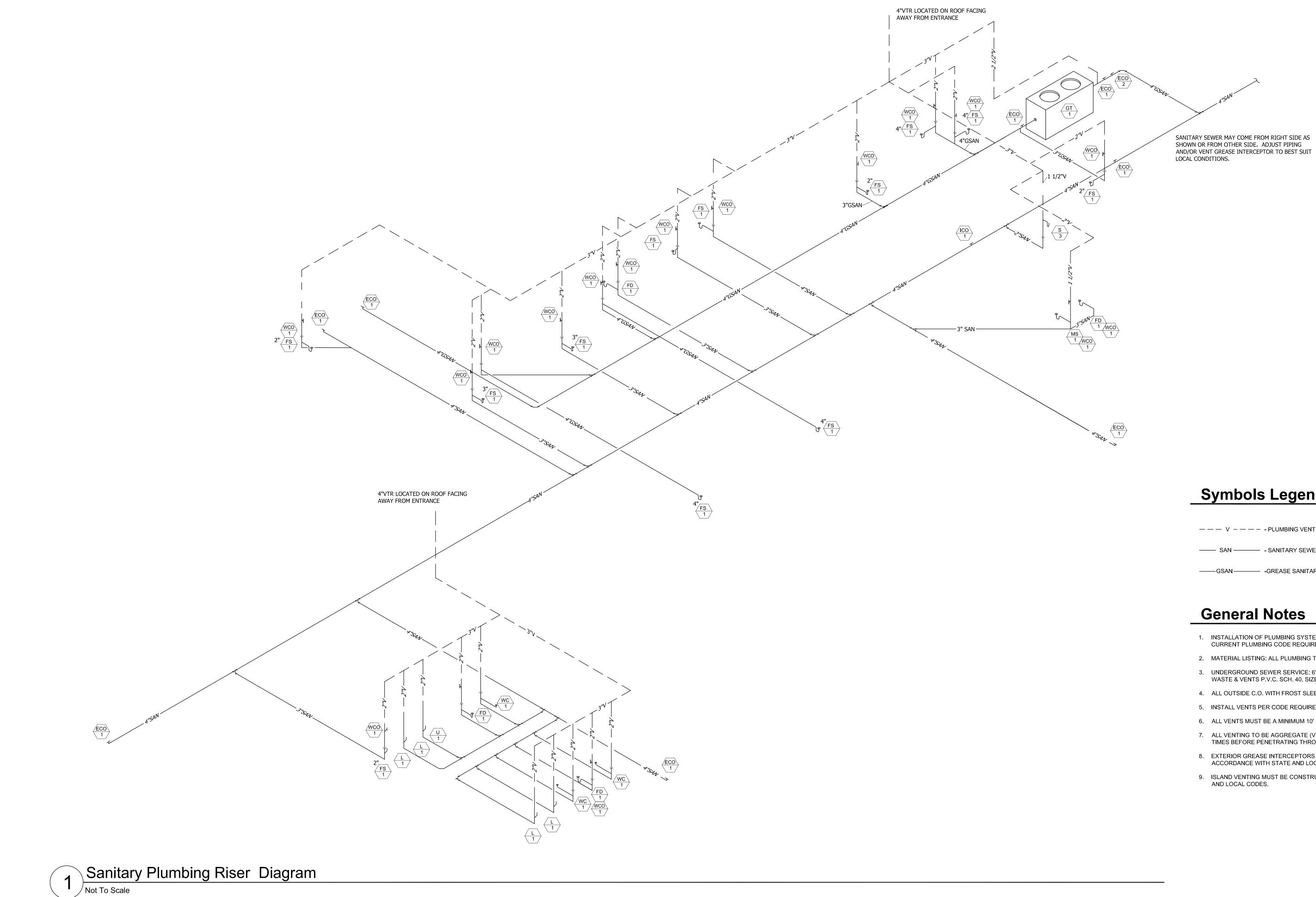




PROJECT NUMBER: 07164.057 10/18/2023
10/11/2023
PLUMBING DETAILS & SCHEDULE P-501

3





## 

**General Notes** 

Symbols Legend

— — — V — — — - PLUMBING VENT

—— SAN ——— - SANITARY SEWER

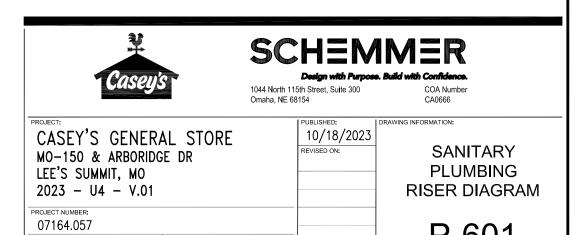
- INSTALLATION OF PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH CURRENT PLUMBING CODE REQUIREMENTS.
- 2. MATERIAL LISTING: ALL PLUMBING TO MEET CURRENT PLUMBING CODE.
- 3. UNDERGROUND SEWER SERVICE: 6"P.V.C. SCH.40 ABOVE GROUND SEWER: WASTE & VENTS P.V.C. SCH. 40, SIZE AS SHOWN. (SUBJECT TO CHANGE)
- 4. ALL OUTSIDE C.O. WITH FROST SLEEVE.
- 5. INSTALL VENTS PER CODE REQUIREMENT.

ANK

- 6. ALL VENTS MUST BE A MINIMUM 10' FROM ROOF TOP ECONOMIZER UNITS.
- ALL VENTING TO BE AGGREGATE (VENT PIPE TO INCREASE DIAMETER 1.5 TIMES BEFORE PENETRATING THROUGH ROOF.
- 8. EXTERIOR GREASE INTERCEPTORS MUST BE CONSTRUCTED IN ACCORDANCE WITH STATE AND LOCAL CODES.
- 9. ISLAND VENTING MUST BE CONSTRUCTED IN ACCORDANCE WITH STATE AND LOCAL CODES.

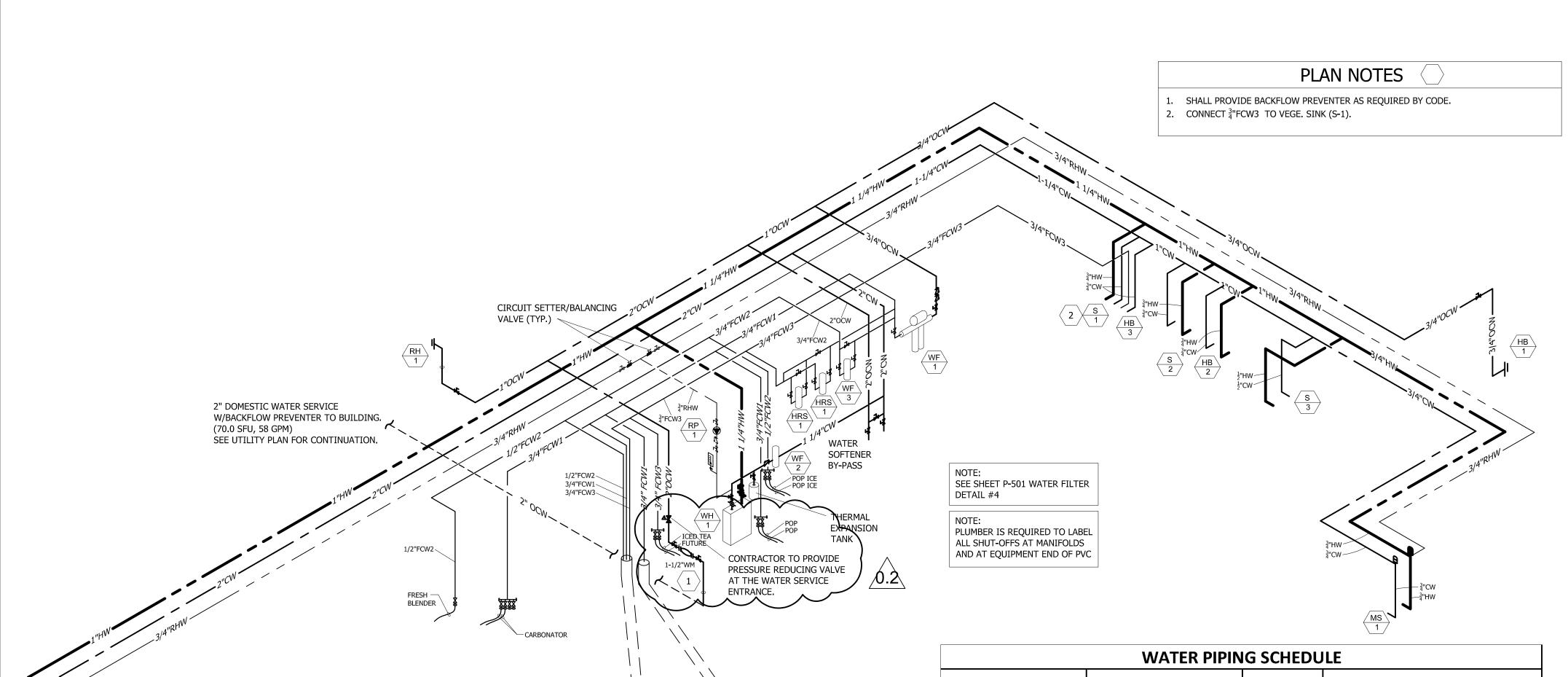


P-601



JEK





1 1/2"CW

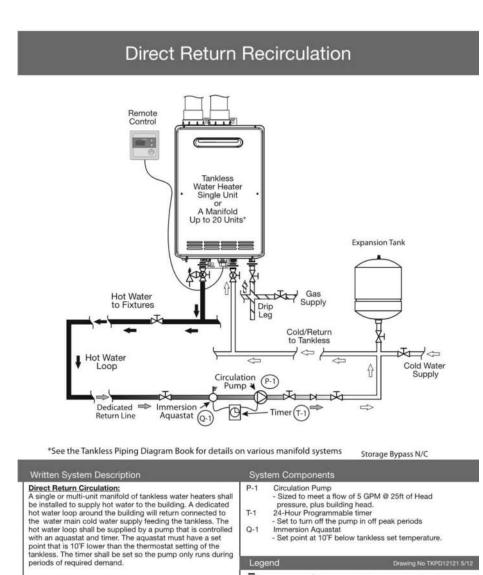
## **General Notes**

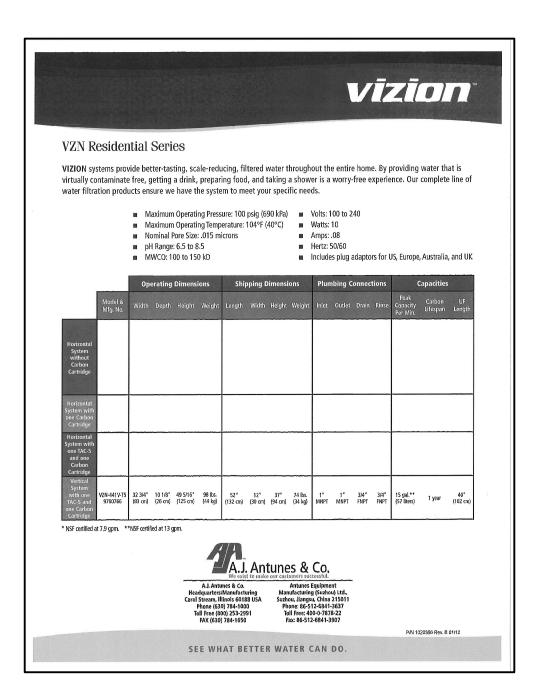
- 1. ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL & STATE
- 2. MATERIAL LISTING: ALL PLUMBING TO MEET PLUMBING CODES.
- 3. <u>UNDERGROUND WATER SERVICE</u>: SIZE AS SHOWN, 2" CTS, HDPE, SDR9, C5-200 PSI WITH TRACER WIRE. VERIFY WITH LOCAL AUTHORITY. (SUBJECT TO CHANGE)
- USE TYPE 'K' COPPER LINE FOR MAIN WATER SERVICE AT CONTAMINATED SITES. (VERIFY)
- 4. ABOVE GROUND WATER SUPPLY TO BE L TYPE COPPER.
- 5. INSTALL VENTS PER CODE.
- 6. INSTALL BACKFLOW PREVENTORS AS REQUIRED BY LOCAL CODE AUTHORITIES.
- 7. GAS SERVICE AND GAS METER BY GAS UTILITY COMPANY.
- 8. ALL GAS LINES TO BE SCH. 40 BLACK IRON.
- 9. ALL GAS FITTINGS TO BE 150# BLACK MALLEABLE IRON NO FLEX FITTINGS.
- 10. GAS PIPING SHALL NOT BE LOCATED WITHIN ANY WALL SURFACE MOUNTING OF PIPING IS REQUIRED.
- 11. GAS APPLIANCES SHALL HAVE A DRIP LEG.

## Symbols Legend

	SCHEDULE 40 GAS LINE ELBOW
<del>1_1</del>	SCHEDULE 40 GAS LINE TEE
III	SCHEDULE 40 GAS UNION
5	GAS VALVE
$\bowtie$	WATER VALVE
Ŋ	CHECK VALVE
——— G ———	NATURAL GAS LINE
CW	COLD WATER LINE
FCW1	POP & CARBONATOR
FCW2	FOLLETT & DRINKING FOUNTAIN
FCW3	HOT BEVERAGES & VEG. SINK (PEX)
——————————————————————————————————————	OUTSIDE COLD WATER LINE
——————————————————————————————————————	HOT WATER LINE

-----RHW ------ RECIRCULATED HOT WATER LINE

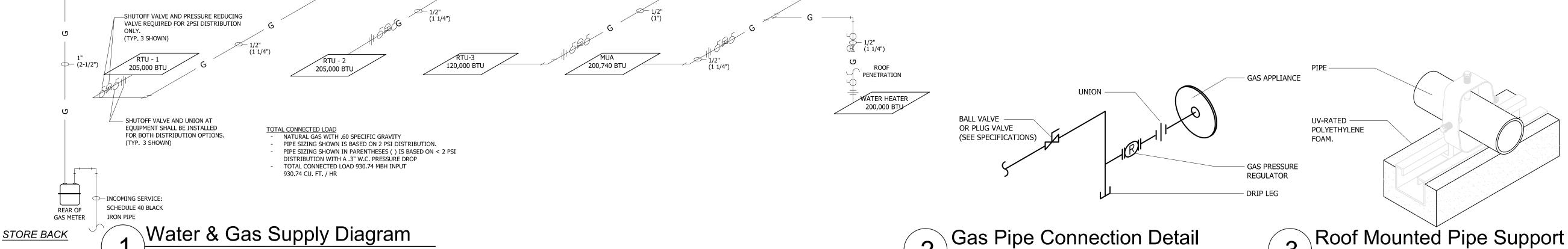




TANKLESS HOT WATER HEATER/DIRECT RETURN RECIRCULATION

Immersion Aquastat
- Set point at 10°F below tankless set temperature.

VIZION WATER FILTER UNIT



(1 1/2")

These two water treatment

systems supplied by above filter Filtered Water with HRS System

HRS-200 (2)

ANK

1044 North 115th Street, Suite 300

SUPPLY

PLUMBING

RISER DIAGRAM

P-701

CASEY'S GENERAL STORE
MO-150 & ARBORIDGE DR
LEE'S SUMMIT, MO 10/18/2023 2023 - U4 - V.01 PROJECT NUMBER: 07164.057

HAMMER ARRESTER

Not To Scale

System

Designations

FCW 1

FCW 2

FCW 3

Revision 2

Fixture Type

Outside Hose Bibbs

3-Compartment Sink

Snack Center Sink

Water Softener

Water Heater

Hand Sinks

Mop Sinks Vegetable Sink

Pop Dispenser Carbonater Iced Coffee

Fresh Blender ce Machine

Drinking Fountain

Bean to Cup Coffee

Powder Cappuccino Dispensers

Heated Display Cabinet - Valve at Vegetable Sink

June 28, 2022

lce Tea Brewer

Water Filter System (Do Not Soften)

**Additional Filters** 

Filtered Water with Scale Inhibitor

Water Type

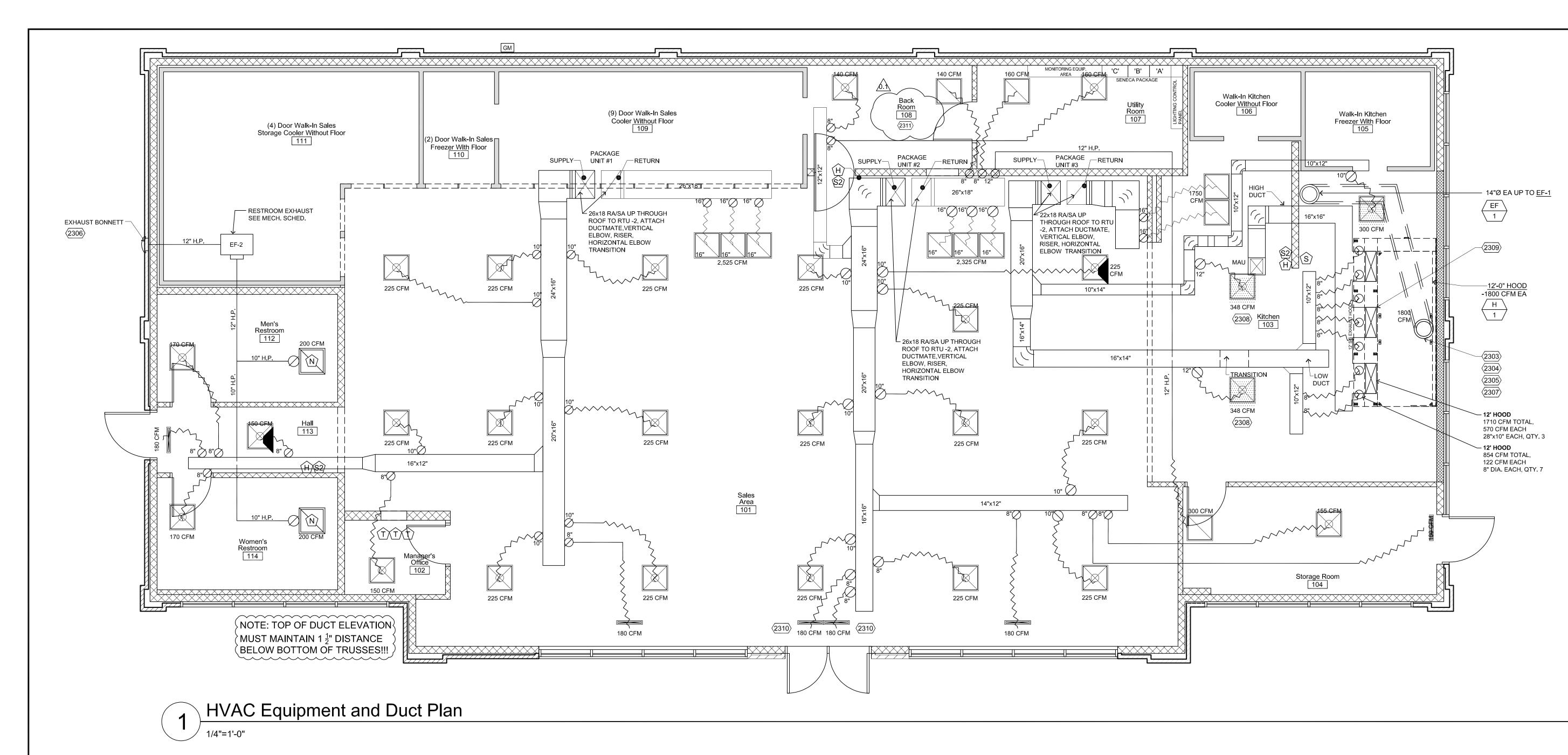
Soft Water (Hot and Cold)

Pre-Softener

**Filtered Water** VZN-441V

√ Not To Scale





#### **General Construction Notes**

- 1. COORDINATE ALL SUPPLY AND RETURN AIR GRILLES W/ ELECTRICAL AND OTHER CEILING MOUNTED DEVICES, SEE REFLECTED CEILING PLAN
- 2. ALL DIFFUSER RUNS TO BE INSULATED FLEX DUCT. SIZE AS NOTED. SEE NOTE 12 BELOW.
- 3. ALL ELECTRICAL BY OTHERS
- 4. HANG ALL DUCT WORK & EQUIPMENT PER IMC CODE.
- 5. WALK-IN COOLER AND FREEZER WALK-IN TO BE ASSEMBLED AS PER MANUFACTURERS SPECS. (NOT INCLUDED IN THESE
- 6. CEILING DIFFUSERS TO BE LOCATED IN ONE TILE AREA. RE: REFLECTED CEILING PLAN A-111 FOR LOCATIONS.
- 7. ALL DRAIN LINES TO BE 7/8" ACR COPPER.
- 8. ALL DUCT WORK TO MEET SMACNA STANDARDS AND NOT LIGHTER THAN 24 GA. METAL.
- 9. REFERENCE SHEETS QR-602 FOR HVAC CONTROL WIRING.
- 10. ALL DUCT WORK TO BE INSULATED ON EXTERIOR R-8 OR GREATER .
- 11. NO FLEX OVER 6' IN LENSYMBOIS Legend
- 12.HVAC TO COORDINATE & PROVIDE PENETRATIONS TO HOOD SYSTEM AS REQUIRED.
- 13. ALL FRESH AIR INTAKES SHALL BE A MINIMUM OF 10' AWAY OR 3' BELOW ANY EXHAUST OUTLET OR PLUMBING VENT
- 14. THIRD PARTY SHALL BALANCE AIR FLOW AS SHOWN ON CONSTRUCTION DOCUMENTS. FIELD REPORTS SHALL INDICATE DEFICIENCIES PREVENTING PROPER TESTING, ADJUSTING AND BALANCING OF SYSTEM AND EQUIPMENT TO ACHIEVE SPECIFIED PERFORMANCE. FURNISH REPORTS TO CASEY'S HVAC/R SUPERVISOR AND ENGINEERING IN APPROVED

#### **Kitchen Exhaust Hood Notes**

MANUFACTURER: CAPTIVEAIRE: TYPE 1, UL APPROVED 12' EXHAUST HOOD.

#### **Keyed Construction Notes**

D	IVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING

- (2303) HOOD LIGHTING TO BE CONNECTED INTO APPROPRIATE WALL
- $\langle \overline{2304} \rangle$  EXHAUST HOODS: 12 FT HOOD SECTIONS S/S 16 GAUGE. HOODS PROVIDED UNDER NATIONAL ACCOUNT
- (2305) EXHAUST FAN THRU ROOF SEE M-401 FOR SCHEDULE.

PERFORATED STYLE DIFFUSER.

TURNING VANES

----- HARD PIPE DUCT

√√√ FLEX DUCT

- (2306) EXHAUST FAN THRU EXTERIOR WALL SEE M-401 FOR SCHEDULE (2307) EXHAUST DUCT PROVIDED BY HOOD MANUFACTURER
- (2309) MAU DUCT TO HOOD MUST ENTER HOOD ABOVE SUPPLY AIR TO

(2308) ALL DIFFUSERS WITHIN 10'-0" OF AN EXHAUST HOOD SHALL BE A

2310) 2' SLOT LINEAR DIFFUSER WITH LOUVER POINTED DOWN (2311) GAS DETECTION SYSTEM TO BE PROVIDE FOR BEVERAGE

DISPENSING EQUIPMENT EXCEEDING 100 POUNDS OF LIQUID CO2.

GAS DETECTION TO COMPLY 2018 IFC.

	2'x2' DIFFUSER LOCATION TYP.	Î	HVAC THERMOSTA 72" A.F.F.
	2'X2' PERFORATED DIFFUSER TYP.	P	DRYER EXHAUST
	2'x2' RETURN AIR DIFFUSER TYP.	$\widehat{\mathbb{N}}$	VENTILATION EXHAUST
	RESTROOM EXHAUST FAN / 10" HARD PIPE	Ĉ	HVAC DOAS COME STAT - 60" A.F.F.
<b>S</b>	SLOTTED DIFFUSER TYP. (LEAVE 2-2' EXTRA CROSS TEE'S FOR SLOTTED DIFFUSERS)	Ĥ	HVAC HUMIDISTA 60" A.F.F.
	2'x2' DIFFUSER WITH DIVERTER	<u>\$</u>	SENSOR -60" A.F.F

7			
3	SLOTTED DIFFUSER TYP. (LEAVE 2-2' EXTRA CROSS TEE'S FOR	Ĥ	HVAC HUMIDISTAT - 60" A.F.F.
<b>7</b> 1	SLOTTED DIFFUSERS)	Ŝ	SENSOR -60" A.F.F.
	2'x2' DIFFUSER WITH DIVERTER INSTALLED		*ALL HEIGHTS LISTED ARE FROM BOTTOM OF UNITS U.N.O.
	DAMPER (ALL SUPPLY AND RETURN LINES TO HAVE DAMPERS)	<u>(S)</u>	HOOD
~	TURNING VANES	<u>\$2</u>	RHEEM - 72" A.F.F.

Unit Name

Totals

Manufacturer and Model Number

CaptiveAire - A1-D.250-15D-MPU

A/C Condensing Unit

Package Unit #1 Rheem - RGEDZT090ACG20BDALK3

Package Unit #2 Rheem - RGEDZT090ACG20BDALK3

Package Unit #3 Rheem - RGECZR060ACU12BDALH3

)			Supply Air	Return Air	Outside Air	Exha	ust Air	Air Bala	ance
Unit Name	Unit Description	Manufacturer and Model Number	CFM	CFM	CFM	CFM Morning *	CFM Typical	CFM Morning *	CFM Typica
			1			WIOTHING	Тургеат	WOLLING	Тургса
Package Unit #1	Sales Area HVAC Unit	HVAC Package Unit Schedule	2800	2525	275				
Package Unit # 2	Sales Area HVAC Unit	HVAC Package Unit Schedule	3200	2925	275				
Package Unit#3	Kitchen Area HVAC Unit	HVAC Package Unit Schedule	1850	1750	100				
MAU	Kitchen Hood Make-up Air Unit	HVAC Package Unit Schedule	1710		1710				
EF - 1	12 Foot Hood Fan	CaptiveAire - DU85HFA				1800	1800		
EF - 2	Restroom Exhaust Fan**	CaptiveAire - SIF11DD				400	400		

**Equipment Notes** 

Sales Area

Sales Area

Kitchen Area

One Unit

Unit CFM OSA CFM

2800

3200

1850

1710

ESP

8.0

2360

7200

2200

2200

160

	Equipment			Cookin	g Equipme	ent Status	
Equipment Name	Description	Off		Warm-up and Cool-down		Normal Operation	
		CFM	Percent	CFM	Percent	CFM	Percent
Exhaust Hood 1	12 Foot Hood	0	0	360	20	1440 to 1800	80 to 100

Heat Source

Gas or Electric

Natural

Natural

**Heating Capacity** 

Input

MBH KW

205

205

120

200.74

Output

MBH

166.1

166.1

97.2

184.7

**U4 (2021) GAS - HVAC PACKAGE UNIT SCHEDULE** 

11.2

1063

IEER <sup>2</sup>

14 <sup>1</sup>

Cooling Capacity

98.5

63.5

36.0

**Nominal Tons** 

7.5

Blower

**BHP or Watts** 

1280.100

1105.700

1.060

	FOF MISSO
	JEFFREYE **
PR(	KULHANEK NUMBER
	PE 2022017087 / PE 1/25/24
Ψ.	NAL E

M-101

**Operating Weight** 

LBS

(less curbs)

1185

1185

583

¥	SCHEM	
Caseys	1044 North 115th Street, Suite 300 Omaha, NE 68154	Build with Confidence.  COA Number CA0666
CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	PUBLISHED: 10/18/2023 REVISED ON: 01/24/2024	MECHANICAL PLAN

PROJECT NUMBER: 07164.057

Electrical

FLA/RLA

Amps

208-230 3Ø

208-230 3Ø

208-230 3Ø

208-230 3Ø

MCA

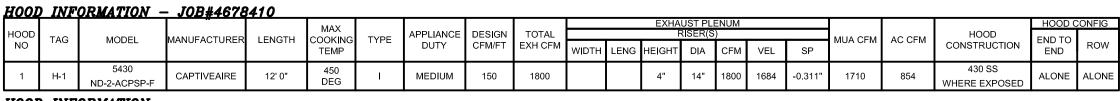
Amps

22.8

MOP

Amps

Lee's Summit, M

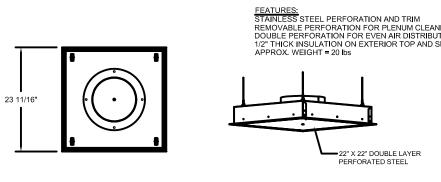


HOOI	) INF(	ORMATION															
				FILTER(	S)			LIGHT(S)					UTILITY CABINET(S)			CIDE	HOOD
HOOD	TAG								WIRE			Fl	RE SYSTEM	ELECTRICAL	SWITCHES		1 HANGING
NO	IAG	TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL#	QUANTITY		WEIGHT
1	H-1	SS BAFFLE WITH HANDLES	a	20"	16"	30%	3	RECESSED	NO	LEFT	12"x54"x30"			DCV-1111-SPAREFIRE-C	1 LIGHT	NO	896
,	11-1	33 BAIT LE WITTHANDELS		20	10	30 /0		NEGESSED	NO	LLI I	12 854 850			DOV-TITI-SI AINEI INE-C	1 FAN	INO	LBS

	0P1	TIONS TO THE PROPERTY OF THE P
HOOD NO	TAG	OPTION
		BACKSPLASH 111.50" HIGH X 204.00" LONG X 1.00" WIDE INSULATED 430 SS VERTICAL.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
1	H-1	STRUCTURAL FRONT PANEL.
' I	11-1	RISER SENSOR INSTALL 3IN DBL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430

PERF	ORAT	ED SU	PPLY .	PLEN	IM(S)						
HOOD									RISER(	S)	
NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG	DIA	CFM	SP
						MUA	10"	28"		570	0.151"
						MUA	10"	28"		570	0.151"
						MUA	10"	28"		570	0.151"
						AC			8"	122	0.047"
1	H-1	Front	156"	22"	6"	AC			8"	122	0.047"
'	□ <del>-</del> 1	1 10111	130	22	U	AC			8"	122	0.047"
						AC			8"	122	0.047"
						AC			8"	122	0.047"
						AC			8"	122	0.047"
						AC			8"	122	0.047"

#### QTY 3-DROP-IN PERFORATED SUPPLY PLENUM DIFFUSER (DI-PSP)



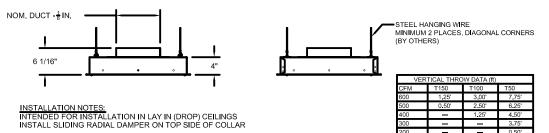
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 16" DIRECT DRIVE FAN.

GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER. 1/4" THREAD SIZE

2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.

SINGLE POINT MPU CONNECTION, 1 CONDENSER

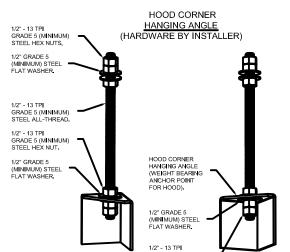
SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".



4. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED

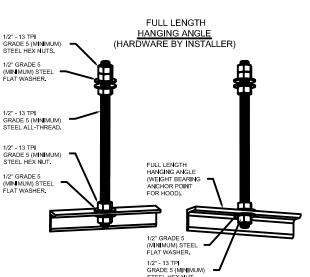
EXTENDED DROP FOR COMMERCIAL HEATERS AND SUPPLY FANS. EXTENDS THE POWER AND REMOTE PANEL CONNECTIONS TO THE UNIT TO 20' OF

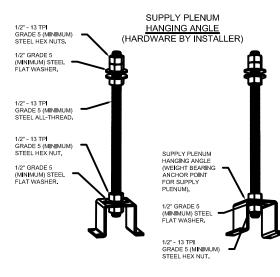
CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB120S ACTUATOR INCLUDED.
5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.



ASSEMBLY INSTRUCTIONS

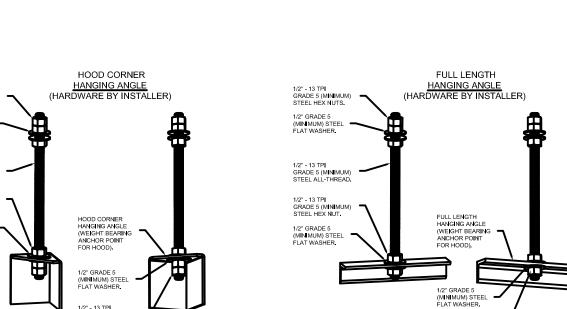
TYPICAL DRAIN TRAP INSTALL

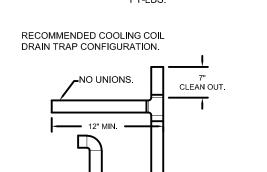




ASSEMBLY INSTRUCTIONS

DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH



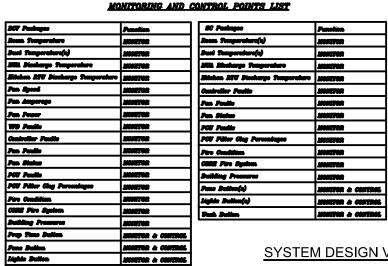


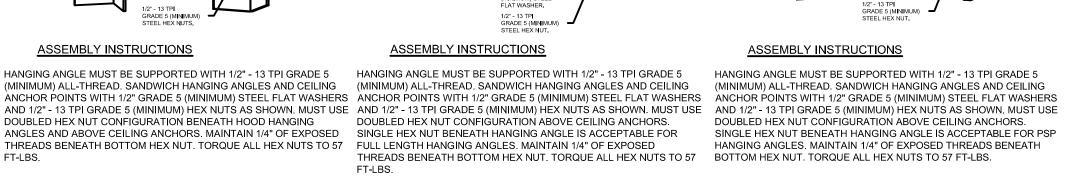


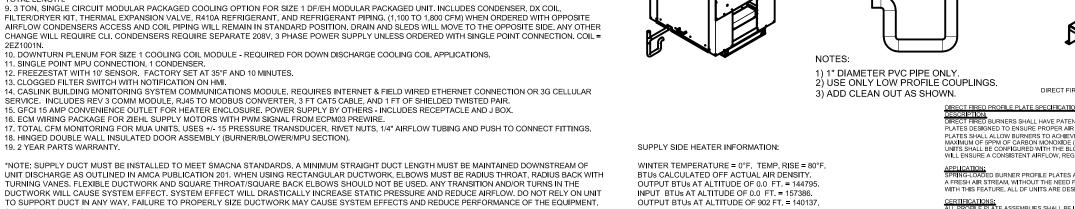
PLATES DESIGNED TO ENGURE PROVER AIR VEGLETA COMBUSTION BY LIMITING BY PRODUCT LEVELS TO A MAXIMUM OF SPPM OF CARSON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2). DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE. APPLICATIONS
SPRING-LIONS
SPRING-LIONS
SPRING-LIONS
A FRESH AR STREAM, WITHOUT THE NEED FOR ANY MOTOR SOR ACTUATORS TO MECHANICALLY ADJUSTMENT
WITH HIS STREAM, WITHOUT THE NEED FOR ANY MOTOR MAND FOR ACTUATOR. TO MECHANICALLY ADJUSTMENTS.
WITH HIS REPAITME, ALL DE UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

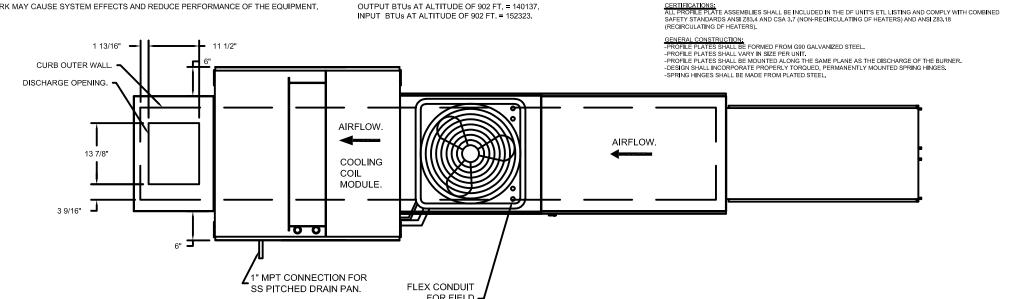


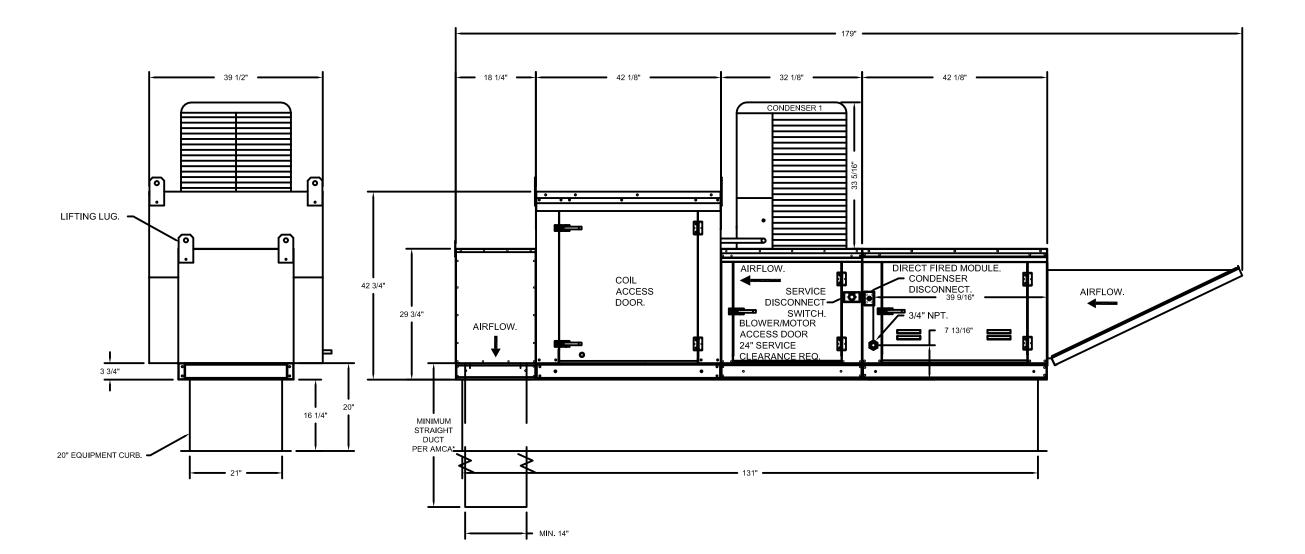










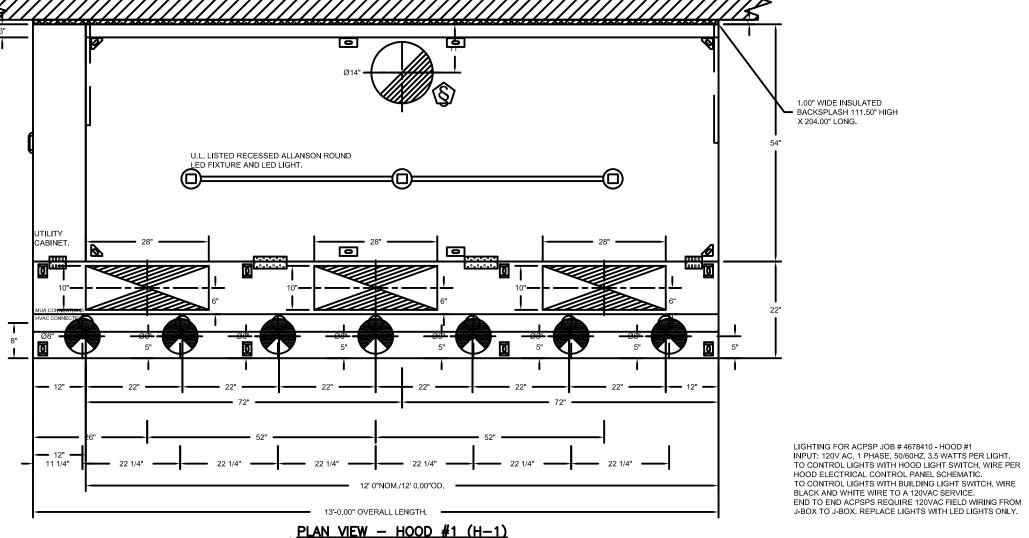


#### SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

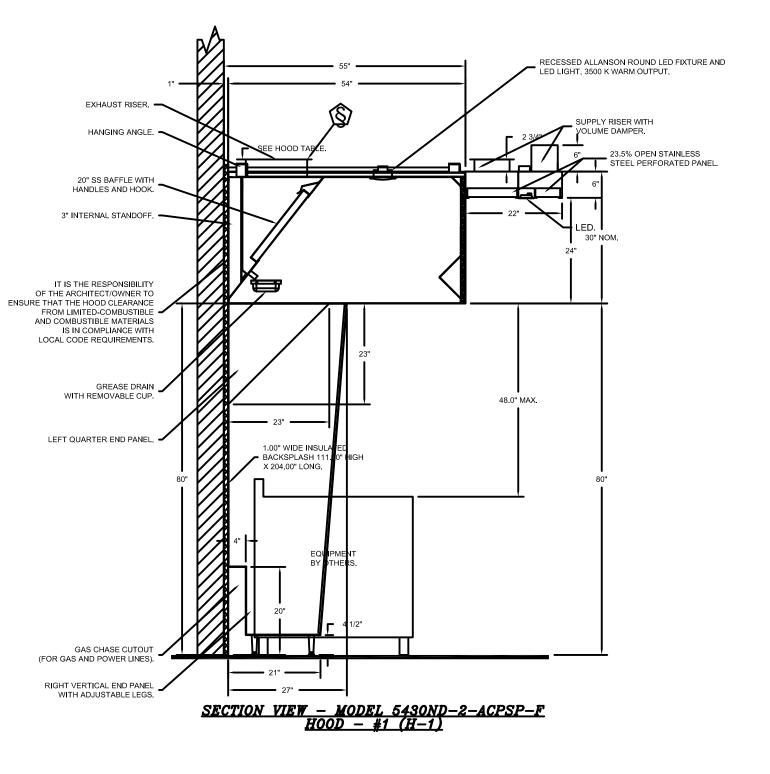
ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.



PLAN VIEW - HOOD #1 (H-1) 12' 0.00" LONG 5430ND-2-ACPSP-F

#### ACPSP SHIPS LOOSE FOR FIELD INSTALLATION



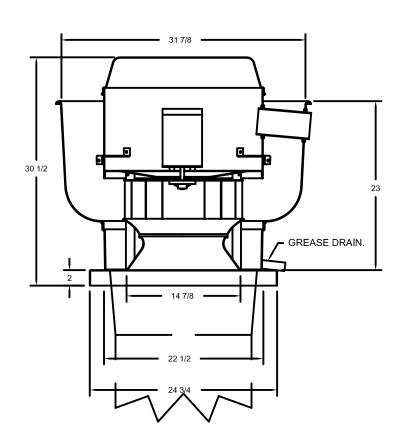


			MITTERS.
Casey's	•	CHEMI  Design with Purposes. Br forth 115th Street, Suite 300	
CASEY'S GENERAL MO-150 & ARBORIDGE LEE'S SUMMIT, MO 2023 - U4 - V.01	. STORE	PUBLISHED: 10/18/2023 REVISED ON:	CA0666  EXHAUST HOOD DETAILS
PROJECT NUMBER: 07164.057 DRAWN BY: CH	ECKED BY:		M-401

JEK

ANK

#### FAN #1 DU85HFA - EXHAUST FAN (EF-1)



- NEMA 3R SAFETY DISCONNECT SWITCH.

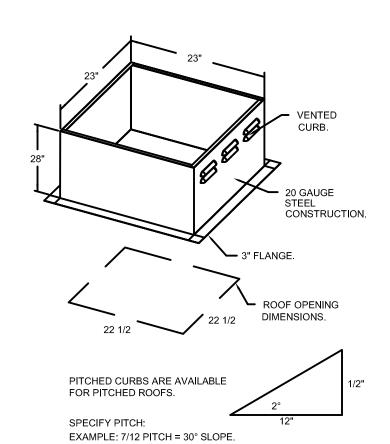
WOULD CAUSE UNSAFE OPERATION.

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - ROOF MOUNTED FANS. - RESTAURANT MODEL - UL705 AND UL762 AND ULC-S645 - VARIABLE SPEED CONTROL. - INTERNAL WIRING. - THERMAL OVERLOAD PROTECTION (SINGLE PHASE). - HIGH HEAT OPERATION 300°F (149°C). - GREASE CLASSIFICATION TESTING.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

GREASE BOX.
UPBLAST FAN WHEEL ACCESS PORT.
FAN BASE CERAMIC SEAL - INSTALLED AT
PLANT - FOR GREASE DUCTS.
HINGE KIT - SHIPS LOOSE FOR CURB
SUPPLIED BY OTHERS.
ECM WIRING PACKAGE - EXHAUST MODBUS CONTROL -MSC- (TELCO), CCW
ROTATION.
2 YEAR PARTS WARRANTY.



FAN #2 SIF11DD - EXHAUST FAN (EF-2)

1/2" DIA. THREADED ROD ONLY

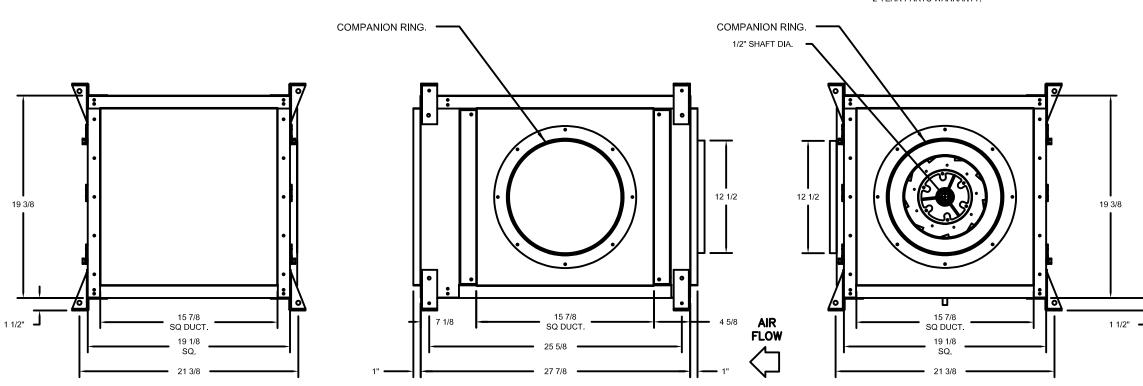
.560" DIA. MOUNTING HOLES.

USED WITH CEILING VIBRATION ISOLATORS. USED WITH FLOOR VIBRATION ISOLATORS.

UNIVERSAL MOUNTING BRACKET TOP VIEW CAN BE RELOCATED IN THE FIELD AS NEEDED.

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS). - TWO ACCESS DOORS FOR EASY ACCESS. - BACKWARD INCLINED NON-OVERLOADING WHEELS. - UL705 LISTING. - AMCA AIR & SOUND CERTIFIED. - THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

SIF - HORIZONTAL OVERHEAD MOUNT -PRE-INSTALLED MOUNTS (11-36), HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS. (HSA125).
SIF11 - INLET RING DUCT CONNECTION.
ECM WIRING PACKAGE - MANUAL OR
0-10VDC REFERENCE SPEED CONTROL
(TELCO MOTOR), CCW ROTATION. (TELCO MOTOR), CCW ROTATION.
SIF11 - SIDE DISCHARGE DOOR FOR SIF 11.
LEFT SIDE FROM INLET. OUTLET RING
DUCT CONNECTION.
2 YEAR PARTS WARRANTY.



- COMPANION RINGS USED WHEN ROUND DUCT BY OTHER. - COMPANION RINGS ARE INSTALLED ON THE INTAKE AND/OR DISCHARGE SIDES.
- WHEN COMPANION RINGS ARE USED TOTAL LENGTH INCREASES BY 1/2" FRONT, 1 1/2" REAR OR 2" TOTAL. EXHAUST FAN INFORMATION - JOB#4678410

	FAN UNIT NO	TAG	QTY	FAN UNIT MODEL#	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	внр	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
	1	EF-1	1	DU85HFA	CAPTIVEAIRE	1800	1.000	1341	TEAO-ECM	0.750	0.4670	1	208	5.2	570 FPM	99	15.3
	2	EF-2	1	SIF11DD	CAPTIVEAIRE	400	0.500	1114	TEAO-ECM	0.500	0.1170	1	115	5.6		148	5.9
7	7017	BUCE	ית מו						-							,	

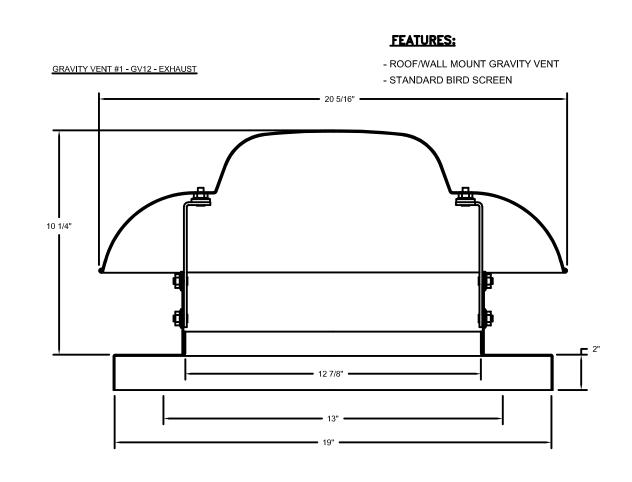
CONDENSER DETAILS MAX FUSE SIZE MIN WIRE SIZE ONDENSER FAN UNIT MODEL# VOLTAGE FREQUENCY MCA PHASE RLA TONNAGE

<u>MUA FAN INFORMATION - JOB#4678410</u> FAN UNIT MODEL# A1-D.250-16Z-MPU 16Z-1-MOD A1-D.250

<u> COILS - JOB#4678410</u> COOLING CFM TOTAL SENSIBLE CAPACITY ENTERING DB ENTERING WB LEAVING DB TEMP TEMP LEAVING WB TEMP ENTERING FLUID TEMP LEAVING FLUID FLUID FLOW
TEMP RATE PERCENT GLYCOL ENTERING DB LEAVING DB TEMP ENTERING LEAVING FLUID FLUID TEMP FLUID FLOW RATE PERCENT GLYCOL STEAM PRESSURE TOTAL CAPACITY SENSIBLE LATENT CAPACITY CAPACITY

GAS FIRED MAKE-UP AIR UNIT(S) INPUT OUTPUT MBTUs MBTUs BURNER TEMP RISE REQUIRED INPUT GAS PRESSURE GAS TYPE EFFICIENCY(% NATURAL MAU 110-200 100-185 55-100°F 7 IN. W.C. - 14 IN. W.C.

5	IVIAU	110-20	100-103	33-1001	7 IIV. W.O 14 IIV. W.O.	NATORAL 32								
	<u>OPTIO</u>	NS												
FAN UNIT NO	TAG	QTY			DESCRIP	TION								
		1	GREASE BOX.											
		1	UPBLAST FAN	WHEEL ACCES	SS PORT.									
1	EF-1	1	FAN BASE CEI	RAMIC SEAL - II	INSTALLED AT PLANT - FOR GREA	ASE DUCTS.								
'		1	HINGE KIT - SI	HIPS LOOSE FO	OR CURB SUPPLIED BY OTHERS.									
		1	ECM WIRING F	PACKAGE - EXH	HAUST - MODBUS CONTROL -MSC	C- (TELCO), CCW ROTATION.								
		1	2 YEAR PARTS	YEAR PARTS WARRANTY.										
		1	SIF - HORIZON	SIF - HORIZONTAL OVERHEAD MOUNT - PRE-INSTALLED MOUNTS (11-36).										
		1		NGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH UARE INLINE FANS. (HSA125).										
	EF-2	1	SIF11 - INLET	RING DUCT CO	NNECTION.									
2		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR) CCW ROTATION.											
		1	SIF11 - SIDE D CONNECTION		OOR FOR SIF 11. LEFT SIDE FROM	INLET. OUTLET RING DUCT								
	Ì	1	2 YEAR PARTS	S WARRANTY.										
		1	MOTORIZED B	ACKDRAFT DA	AMPER FOR A1-D HOUSING. MEET	rs amca class 1a rating.								
		1	LOW FIRE STA	ART.										
		1	INLET PRESSU	JRE GAUGE, 0-	-35".									
		1	MANIFOLD PR	ESSURE GAUG	GE, -5 TO 15" WC.									
		1	EXTENDED PO	OWER DROP.										
		1	TO 1,800 CFM	ON SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 DF/EH MUA (1,100) 1,800 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED OF PROPER OPERATION.										
		1	DOWNTURN P	LENUM FOR SI	IZE 1 DX COIL MODULE.									
3	MAU	1	SINGLE POINT	MPU CONNEC	CTION, 1 CONDENSER.									
		1	FREEZESTAT	(10).										
		1	CLOGGED FIL	CLOGGED FILTER SWITCH WITH NOTIFICATION ON HMI.										
		1	CASLINK BUIL	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.										
		1		CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE AND J BOX.										
		1	ECM WIRING F MOTOR).	PACKAGE-SUPF	PLY - PWM SIGNAL FROM ECPMO	)3 PREWIRE (3 - PHASE ZIEHL								
		1	TOTAL CFM M	ONITORING FC	OR MUA UNITS.									
	Ì	1	2 YEAR PARTS	S WARRANTY.										



\*\*\*Nominal Values Only\*\*\*

FAN ACCESSORIES SUPPLY GRAVITY MOTORIZED WALI DAMPER MOUNT DISCHARGE DAMPER

<u>CUF</u>	CURB ASSEMBLIES								
NO	ON FAN	TAG	WEIGHT	ITEM	SIZE				
1	# 1	EF-1	45 LBS	CURB	23.000"W X 23.000"L X 28.000"H 0.500:12.000 PITCH VENTED.				
3	#3	MAU	178 LBS	CURB	21.000"W X 131.000"L X 20.000"H				



			Million
**		SCHE	MMER
Case	y's		rpose. Build with Confidence.
CASEY'S GENE MO-150 & ARBORI LEE'S SUMMIT, MO 2023 - U4 - V.0	DGE DR	PUBLISHED: 10/18/20 REVISED ON:	DRAWING INFORMATION:  EXHAUST  HOOD  DETAILS
PROJECT NUMBER: 07164.057 DRAWN BY: ANK	CHECKED BY:  JFK		M-402

DUCT DETAILS

M-403

PROJECT NUMBER: 07164.057

ANK

JEK

TAG	PART#	CFM	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1417DWLT-2R-S	1800	-0.007	22.79	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 17" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P2	DW1490DWASY-2R-S	1800	-0.1215	33.30	1683.79	1	DOUBLE WALL DUCT - 14" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHE
P3	DW1402DWOFFSETASY-2R-S	1800	-0.003	12.99	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT RISER & 2 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P4	DW1423DWLT-2R-S	1800	-0.0095	30.75	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT, 23" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P5	DW1447DWAJD-2R-S	1800	-0.0095	93.18	1683.79		DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P6	DW1822SADKIT			7.25		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 18" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1822SAD, & HARDWARE BAG 4.
P7	DW1402DWOFFSETASY-2R-S	1800	-0.003	12.99	1683.79	1	DOUBLE WALL DUCT - 14" INNER DUCT RISER & 2 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P8	DW1415DWASY-2R-S	1800	-0.0414	15.00	1683.79	1	DOUBLE WALL DUCT - 14" INNER 15 DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHE
P9	DW14DWTEASY-2R-S		-0.0158	41.37		1	DOUBLE WALL DUCT - 14" INNER TEE DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P10	DW1402DWOFFSETASY-2R-S			12.99		1	DOUBLE WALL DUCT - 14" INNER DUCT RISER & 2 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P11	DW1411DWLT-2R-S			14.89		1	DOUBLE WALL DUCT - 14" INNER DUCT, 11" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P12	DW1447DWAJD-2R-S			93.18		1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P13	DW1822SADKIT			7.25		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 18" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1822SAD, & HARDWARE BAG 4.
P14	DW1402DWOFFSETASY-2R-S			12.99		1	DOUBLE WALL DUCT - 14" INNER DUCT RISER & 2 DEGREE OFFSET - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
P15	DW1490DWASY-2R-S			33.30		1	DOUBLE WALL DUCT - 14" INNER 90 DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHE
P16	DW1447DWAJD-2R-S			93.18		1	DOUBLE WALL ADJUSTABLE DUCT - 14" INNER DUCT - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEE TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P17	10318FLOSUPASY			20.38		1	DUCT - VENT - CHIMNEY - 18" SHELL - SUPPORT PLATE ASSEMBLY - 26.250" SQUARE USED ON 22.250" THROUGH PENETRATIONS - HORIZONTAL AND VERTICAL - INCLUDES HARDWARE.
P18 ASSEMBLED W/P19	DW1435DWLTTP-2R-S			48.06		1	DOUBLE WALL DUCT - 14" INNER DUCT, 35" LONG - 2 LAYERS REDUCED CLEARANCE - 18" STAINLESS STEEL OUTER SHELL - USED WITH TRANSITION PLATE.
P19 ASSEMBLED W/P18	DW2314TP			8.49		1	DUCT TO CURB TRANSITION, 23" CURB TO 14" DUCT, 16 GA ALUMINIZED. USED ON BDU15, DU75 & 85.
P20	DW1822SADKIT			7.25		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 18" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1822SAD, & HARDWARE BAG 4.
P21	DW1822SADKIT			7.25		1	DUCT - HORIZONTAL SADDLE SUPPORT KIT, USED WITH 18" OD - INCLUDES UNI-STRUT CUT TO LENGTH, DW1822SAD, & HARDWARE BAG 4.
P22	DW14DWACCDOORCOV-2R-S			22.25		1	DOUBLE WALL DUCT - 14" INNER ACCESS DOOR & 18" ACCESS DOOR COVER WITH CLAMPS - 2 LAYERS REDUCE CLEARANCE - 18" STAINLESS STEEL OUTER SHELL.
	3M-2000PLUS			0.80		5	DUCT - 3M FIRE BARRIER 2000 PLUS SILICONE - USED AS SEALANT TO SEAL DUCT JOINTS.
	DW14DWCLASY-2R-S			7.21		9	DUCT - 14" DUCT - 18" DOUBLE "V" CLAMP - 2R INSULATION & SINGLE "V" CLAMP INCLUDED - REDUCED CLEARANCE.
TOTAL WEIGHT				719.97			

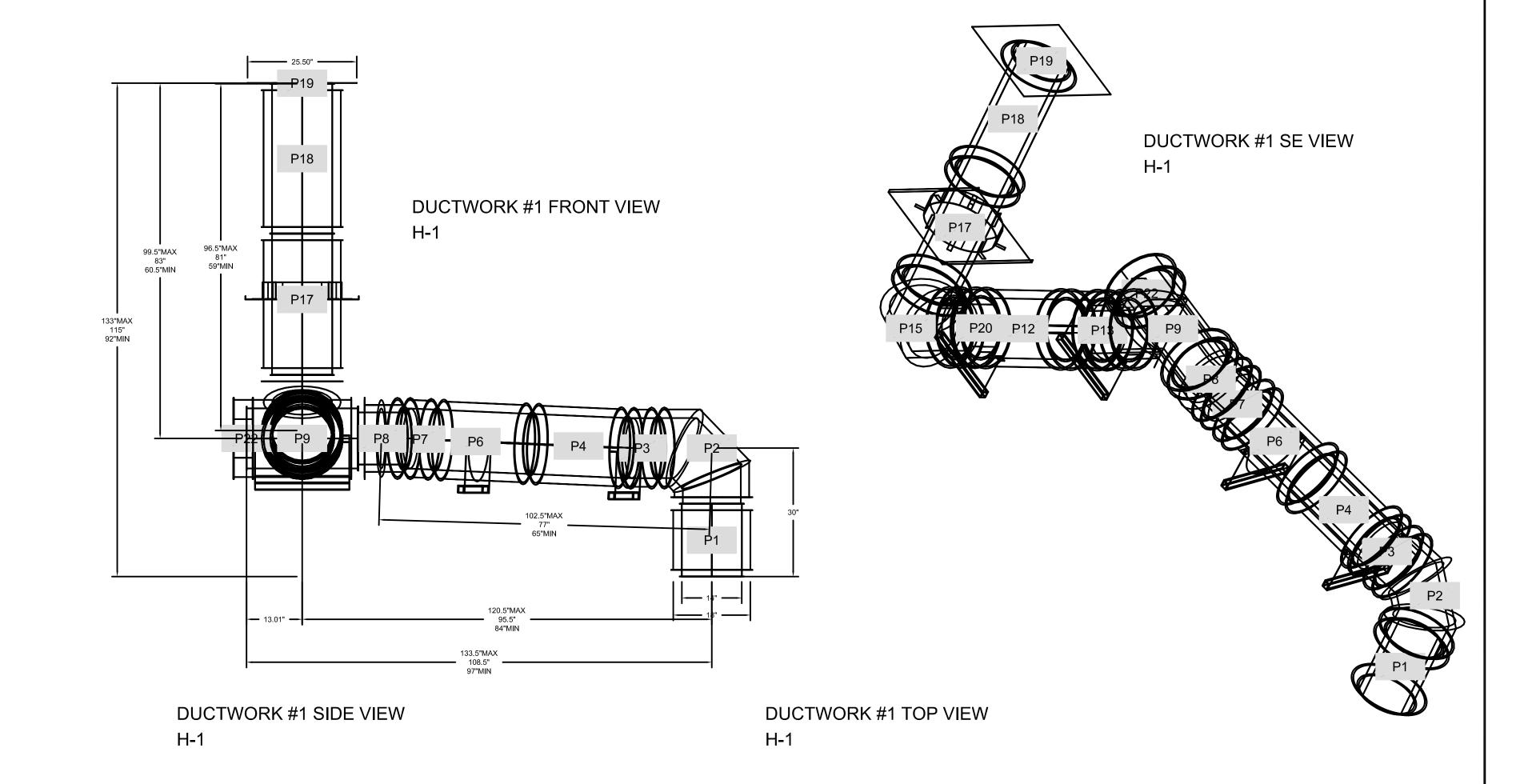
#### DOUBLE WALL FACTORY BUILT DUCTWORK

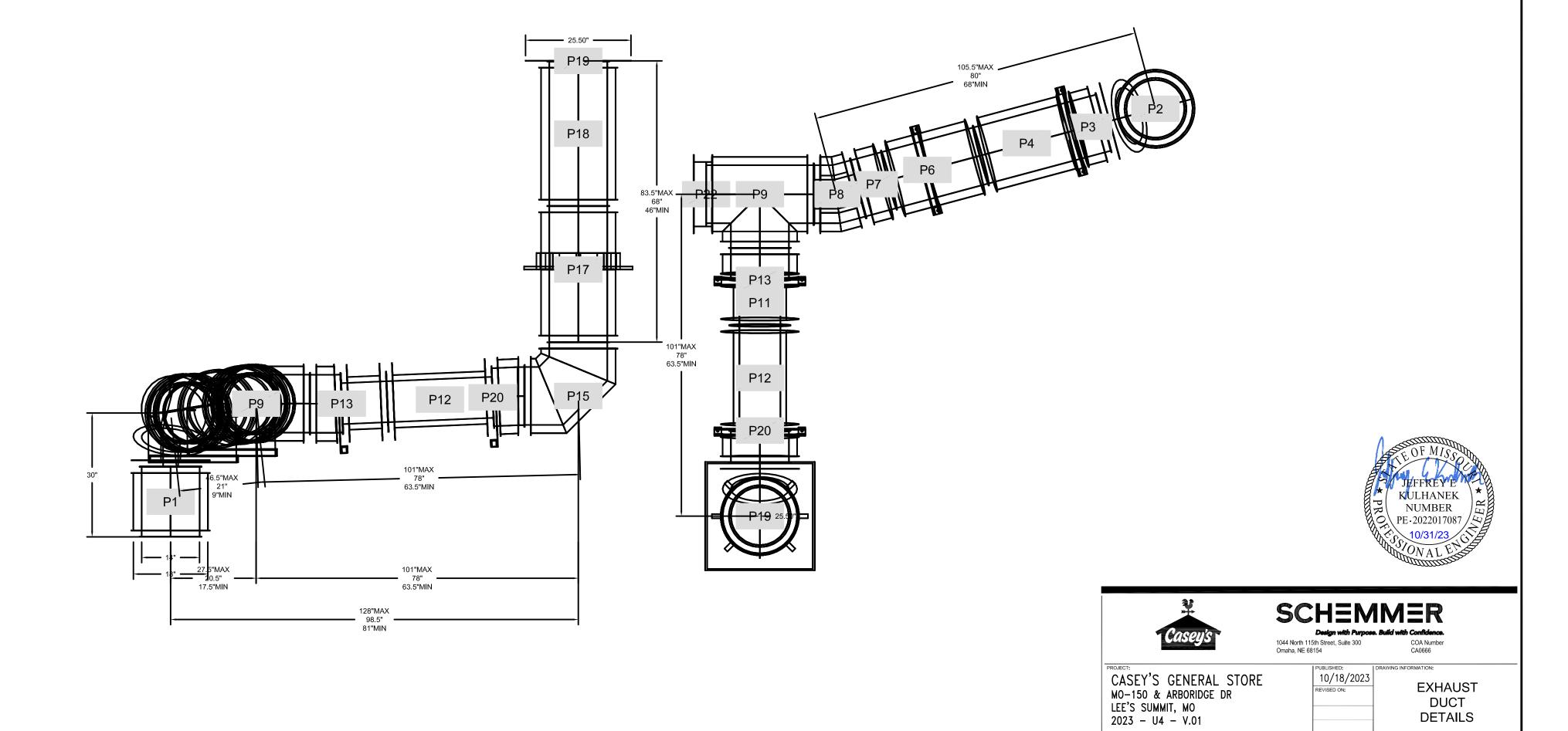
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

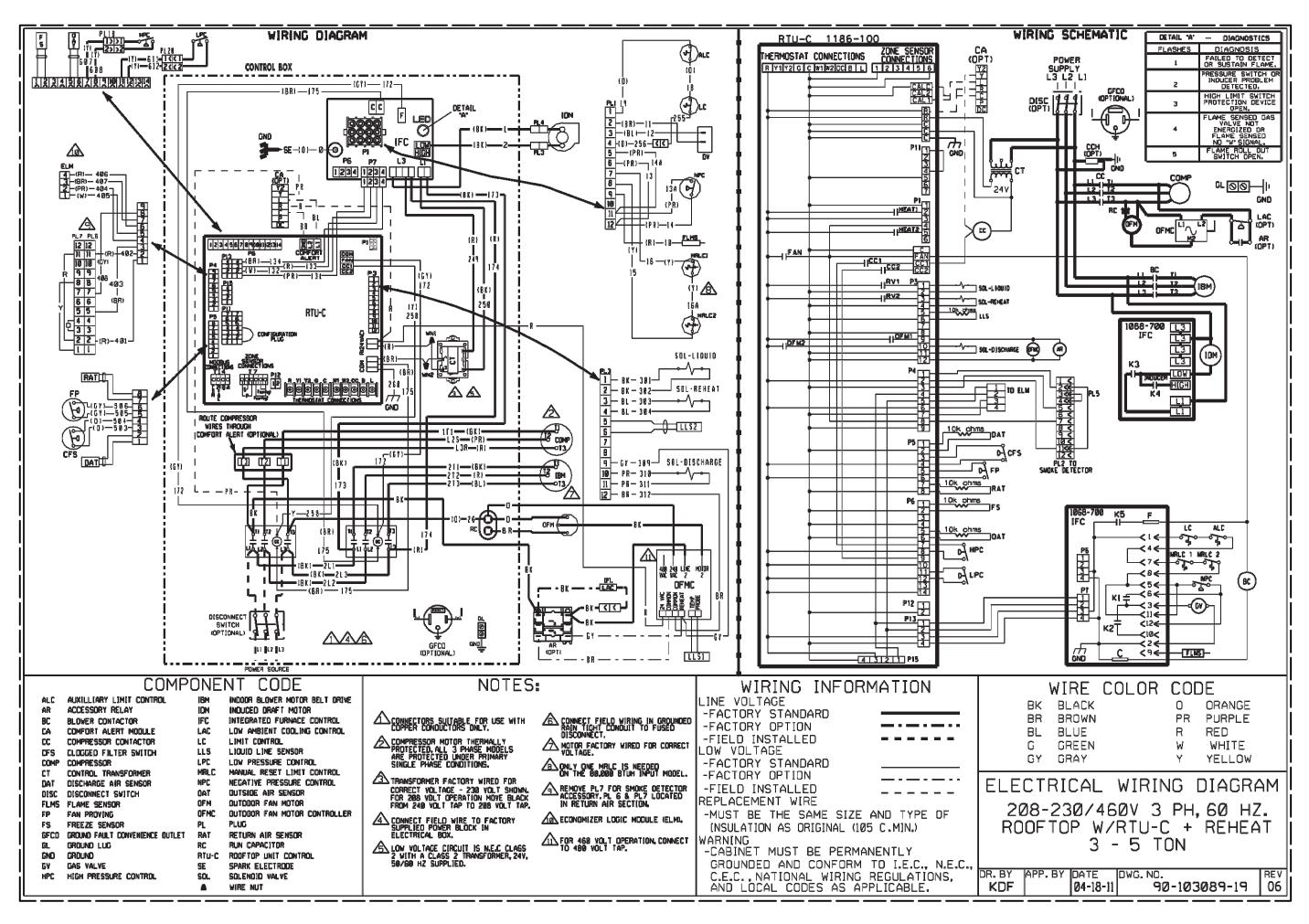
HOR	IZONTAL
DUCT DIAMETER	SUPPORT SPACING (FT)
5"	7'
6"	7'
7"	7'
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'
26"	5'
28"	5'
30"	5'
32"	5'
34"	5'
36"	5'

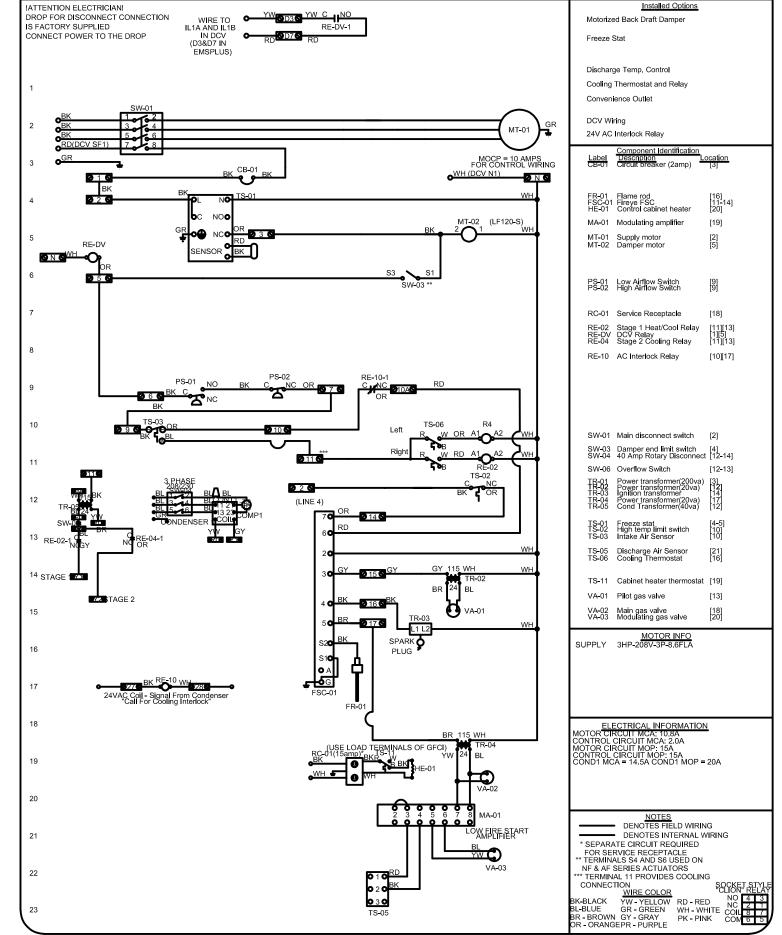
	VERTICAL						
TYPE	WALL SUPPORT (FT)	CURB SUPPORT (FT)	FLOOR SUPPORT (FT)				
2R & 2R HT (5"-16")	20'	24'	24'				
2R (18")	18'	24'	24'				
3R & 3Z (5"-24")	10'	24'	24'				
3Z (26" -36")	10'	20'	20'				

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES. CONSULT WITH CAPTIVEAIRE FOR PROPER LEAK TESTING METHODS.





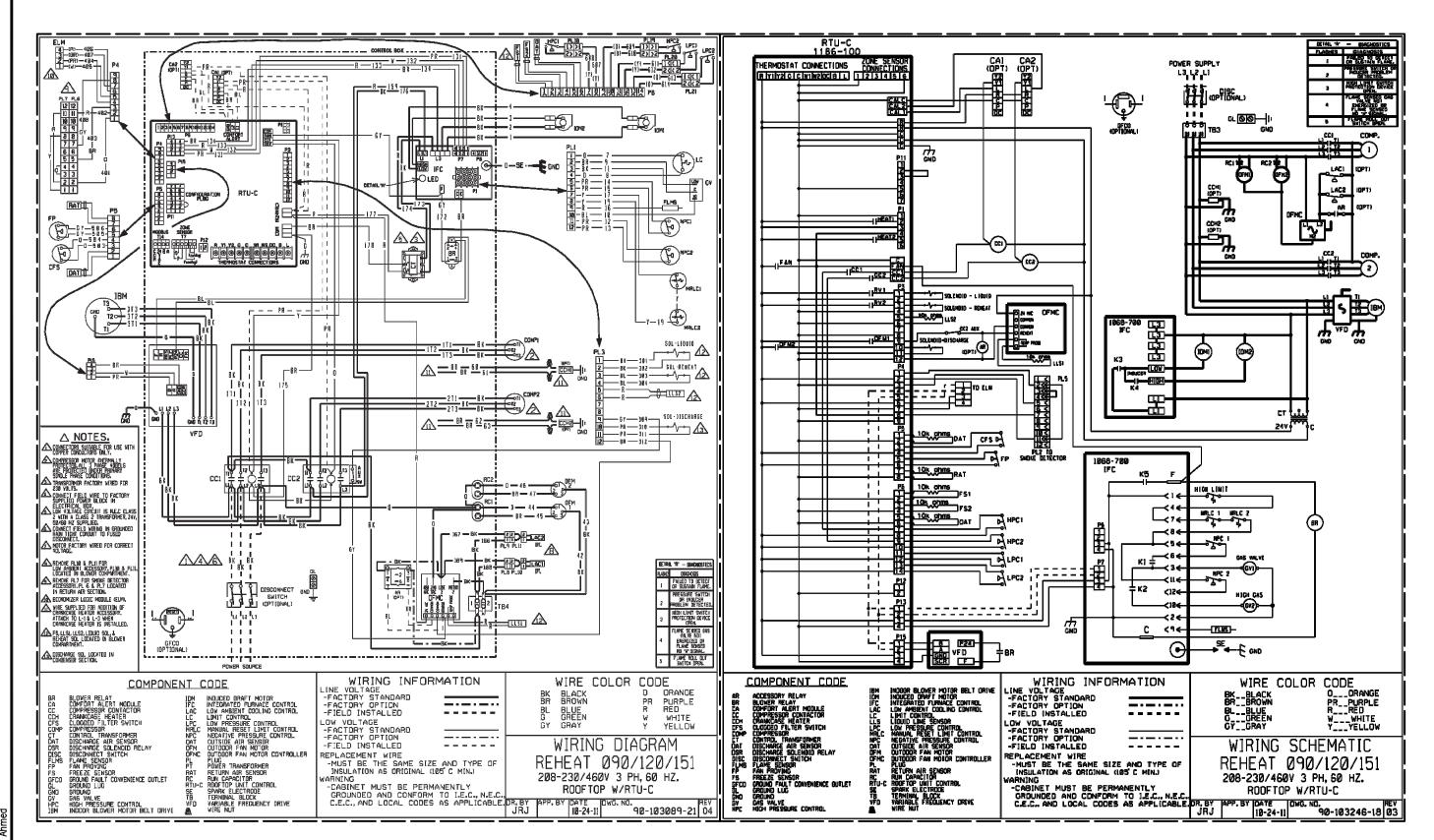






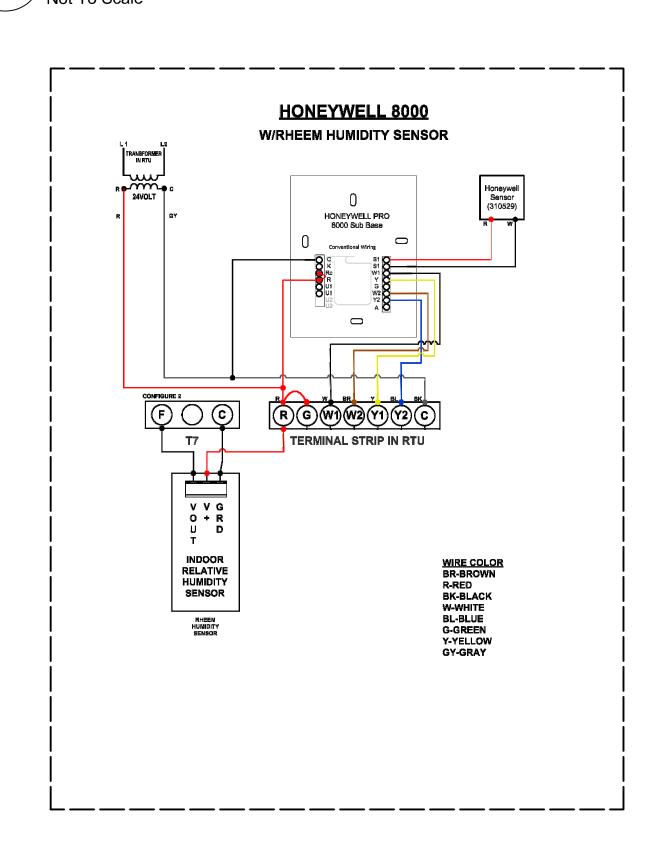
RTU Wiring Diaram 7 1/2 Ton

Not To Scale



MAU Kitchen Wiring Diagram

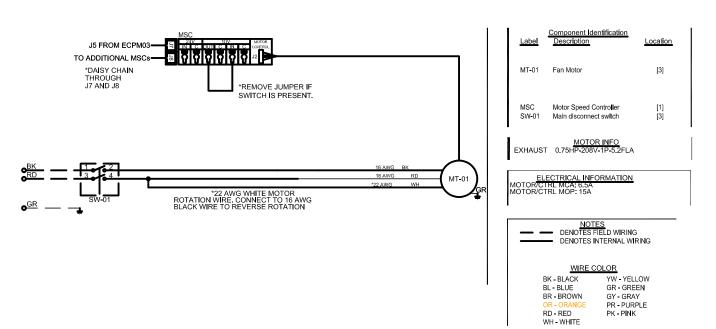
Not To Scale



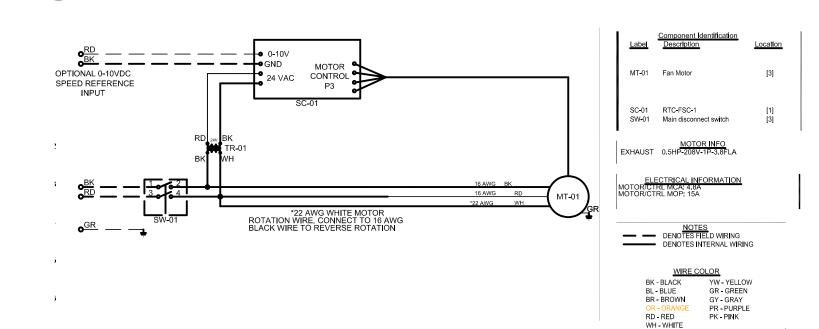
# 4 RTU-1 Sales Area Humidistat Wiring Diagram Not To Scale

## EXHAUST FAN SCHEDULES

XH	AUS <sup>-</sup>	Γ FAN INFORMATION										
FAN UNIT NO.	TAG	FAN UNIT MODEL#	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1	EF-1	DU85HFA	1800	1.000	1341	0.750	0.4670	1	208	5.2	98	15.3
2	EF-2	SIF11DD	400	0.500	1114	0.500	0.1170	1	115	5.6	144	5.9



12' Hood Exhaust Fan Wiring



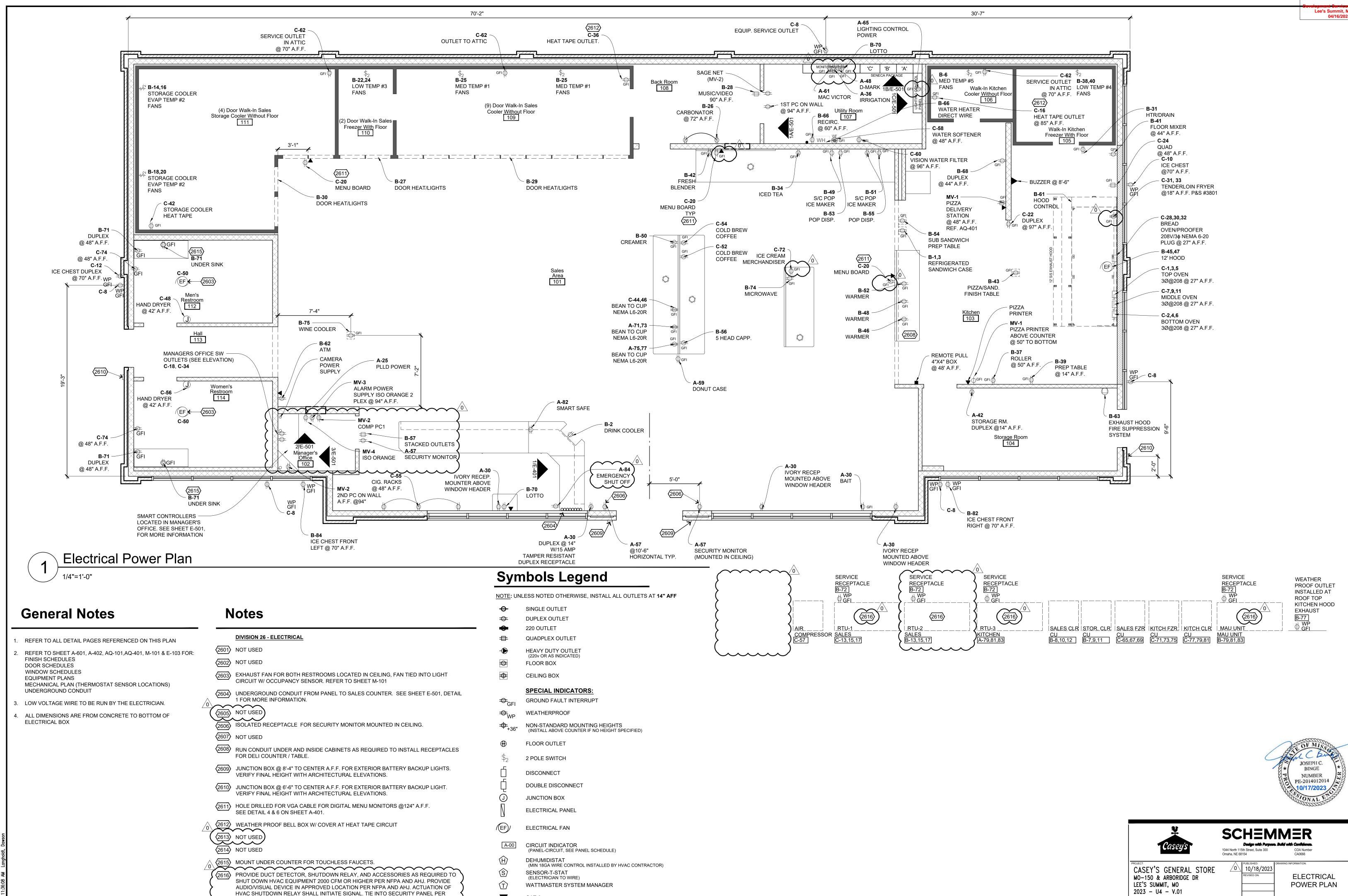
6 Restroom Exhaust Fan Wiring



	conto	SC		IMER  Build with Confidence.
Gar		1044 North 11 Omaha, NE 6	5th Street, Suite 300 8154	COA Number CA0666
CASEY'S GE MO-150 & ARB LEE'S SUMMIT, 2023 - U4 -	MO		PUBLISHED: 10/18/2023 REVISED ON:	COMFORT COOLING WIRING
PROJECT NUMBER: 07164.057 DRAWN BY: ANK			M-601	

E-101

PROJECT NUMBER: 07164.057



OWNER'S REQUIREMENTS.

BUZZER





PER SECTION 1008.2 AND 1008.3, 2018 IBC:

PER SECTION 1204.3, 2018 IBC: LIGHTING SHALL BE PROVIDED THAT IS ADEQUATE TO PROVIDE LIGHT LEVELS AS INDICATED IN THE LATEST ILLUMINATING ENGINEERING SOCIETY (IES) STANDARD OR AT A MINIMUM ILLUMINATION OF 10 FOOT CANDLES AT 30 INCHES ABOVE THE FLOOR LEVEL.

LESS THAN 1 FOOT CANDLE AT THE FLOOR LEVEL ALONG THE EGRESS PATHWAY. EMERGENCY EGRESS LIGHT SHALL EXTEND TO THE EXTERIOR OF THE BUILDING AND SHALL OPERATE FOR A MINIMUM OF 90 MINUTES WITH BATTERY BACKUP.

THE MEANS OF EMERGENCY EGRESS LIGHTING SHALL NOT BE

PER SECTION 505.5.2, 2009 IEEC: TOTAL INTERIOR POWER FOR LIGHTING SHALL BE LIMITED TO 1.5 W/SF FOR RETAIL ESTABLISHMENTS. ALLOWED WATTS = 5,994 PROPOSED WATTS = 4,774

#### **General Construction Notes**

- 1. ALL LINE VOLTAGE WIRING MUST BE IN CONDUIT
- 2. ELECTRICAL TO MEET STATE & LOCAL CODE
- 3. ALL ELECTRICAL CONDUIT PENETRATIONS THROUGH THE WALK-IN COOLER/FREEZER CABINET ARE TO BE SEALED WITH ALUMINUM SILICONE
- 4. WIRING IN CONDUITS AND JUNCTION BOXES ARE TO BE SEALED BOTH INSIDE WITH THUMB GUM OR EQUAL SEALANT. FOR AIR AND WATER TIGHT CONNECTIONS
- 5. SEE SHEETS E-700-702 FOR SPECIFIC ELECTRICAL FIXTURE DETAILS.
- 6. EXIT SIGNS CONNECT TO LOCAL LIGHT CIRCUIT THAT'S AVAILABLE.
- '. CEILING REFLECTANCES = 80% WALL REFLECTANCES = 50% FLOOR REFLECTANCES = 20% CALCULATIONS TAKEN AT WORKPLANE (2.5' A.F.F.)

## Symbols Legend

PILOT SWITCH SUPPLIED BY ELECTRICIAN

MOTION SENSOR, MANAGERS OFFICE, BACK ROOM, RESTROOMS, AND STORAGE ROOM..

## **Keyed Construction Notes**

#### **DIVISION 16 - ELECTRICAL**

2601 SIGNAGE PULL BOX: ELECTRICIAN TO SUPPLY PULL BOX ON FRONT BUMP OUT WALL ABOVE FINISHED CEILING ALONG W/ PULL WIRES TO EXTERIOR SIGN LOCATION AND ELECTRICAL WIRING BACK TO CORRECT CIRCUITS ON ELECTRICAL PANEL LABEL WHICH TRANSFORMER CONTROLS WHICH CHANNEL LETTER. FINAL CONNECTION BY ELECTRICIAN

(2602) NOT USED

2603 NOT USED

(2605) EXTERIOR WALL MOUNTED SECURITY LIGHTING. REFERENCE ELEVATION PAGES.

(2606) LIGHT SWITCHING DETAIL LOCATED IN MANAGER'S OFFICE. REF

2607 NOT USED

(2608) WALL MOUNTED CHANNEL LETTERS (CASEY'S GENERAL STORE)

WALL MOUNTED SECURITY LIGHT, EXTERIOR [LIGHT FIXTURE W/BATTERY BACKUP FOR EGRESS LIGHTING]

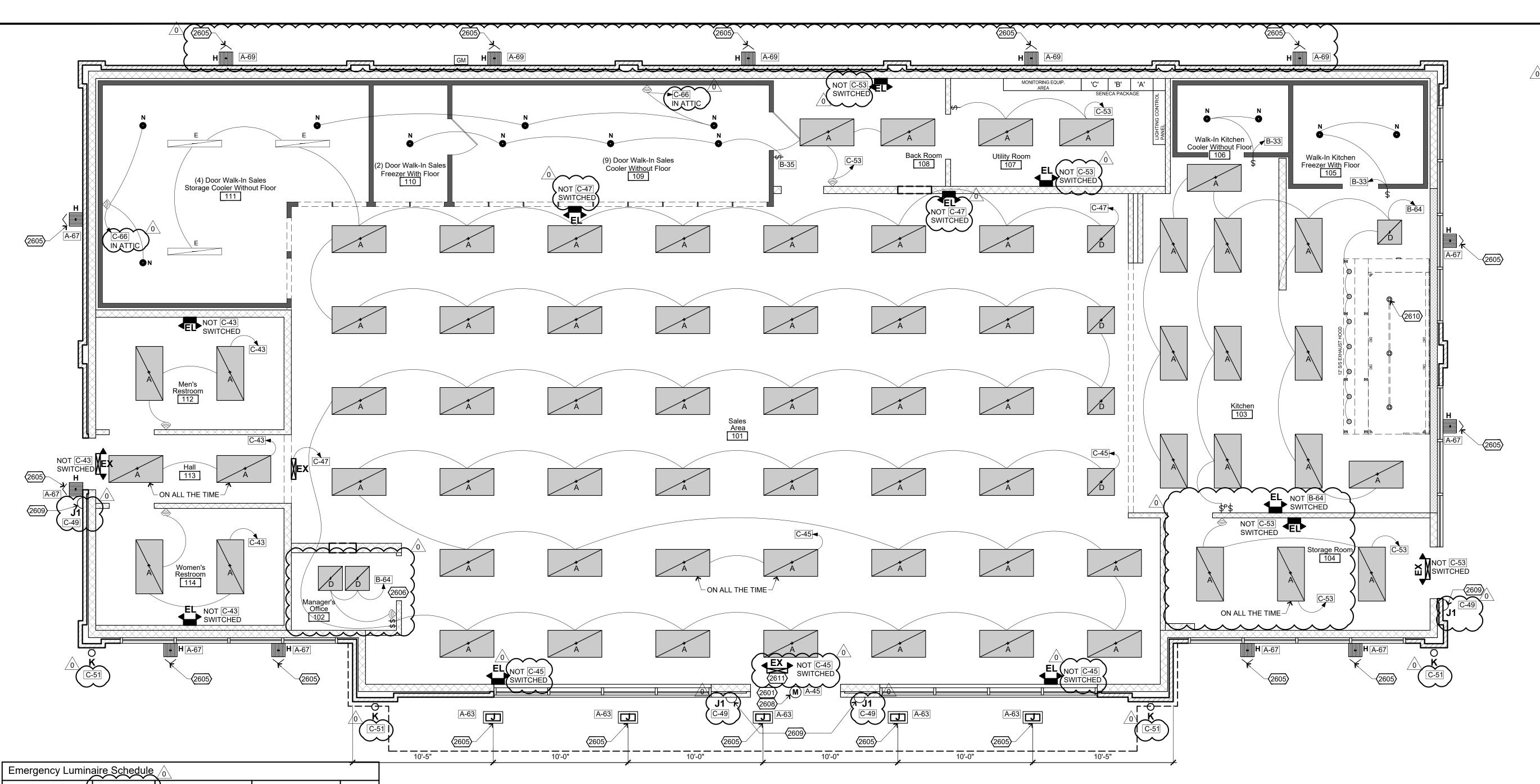
2610) SEE SHEET M-401 FOR SPECIFIC ELECTRICAL FIXTURE DETAILS (2611) CEILING MOUNTED EXIT SIGN, CENTERED IN CEILING TILE. USE NECESSARY MOUNTING HARDWARE AS REQUIRED.





	Offiaria, NE 00134
PROJECT:  CASEY'S GENERAL STORE  MO-150 & ARBORIDGE DR  LEE'S SUMMIT, MO  2023 - U4 - V.01	PUBLISHED: 10/18/2023 REVISED ON:
PROJECT NUMBER:	

**ELECTRICAL** LIGHTING PLAN E-102



<u></u>								
Emergency Luminaire Schedule 0								
Symbol	Qty	Manufacturer	Description	Notes				
EX	1	Lightalarms	QLX	2				
EX	3	Cree	LCAC-2SQLED	2				
<b>▲</b> EL <b>→</b>	10	Lightalarms	LCAB-2SQLED	3				
● N	13	PUCK BASE FIXT ABOVE CEILING	URE w/LED	1				

**EMERGENCY LIGHT** 

Luminaire Schedule

ALL ABOVE CEILING LIGHTS TO BE PLACED ON MASTER LIGHTED PILOT SWITCH LOCATED NEAR ELECTRICAL PANELS

2) INSTALL JUNCTION BOX ABOVE CEILING WHERE EXIT SIGNS ARE LOCATED. EMERGENCY EXIT SIGN TO BE INSTALLED AT 91" A.F.F. TO BOTTOM OF SIGN.

3 JUNCTION BOX CENTER AT RESTROOM 8'- 2" A.F.F. & SALES AREA JUNCTION BOX CENTER 10'-4" A.F.F.

		$\sim$	<b>\</b> 0\			$\overbrace{\hspace{1cm}}^{0\backslash}$		/0
ymbol	Label		Arrangement	Lumens	LLF	( Total Watts )	Manufacturer	Description
	А	66	SINGLE	4000	1.000	2640	CREE, INC.	ZR24MT-40L-40K-S 2'x4' LED TROFFER (INTERIOR)
<b>*</b>	В	0	SINGLE	4000	1.000	(0)	CREE, INC.	ZR14MT-40L-40K-S 1'x4' LED TROFFER (INTERIOR)
•	C5	0	SINGLE	2090	1.000	0	KASON	11808000000 LED COOLER/FREEZER LIGHTIING FIXTURE
	E	3	SINGLE	3000	1.000	(117)	KASON	1810LX 48" LED FIXTURE (INTERIOR - COOLER)
	D	7	SINGLE	3279	1.000	224	CREE, INC.	(ZR22MT-32L-40K 2'x2' LED TROFFER (INTERIOR))
	Н	14	SINGLE	7519	1.040	1428	BETALED, A DIVISION OF RUUD LIGHTING	SEC-EDG-3M-WM LED WALL MOUNTED SECURITY LIGHT (EXTERIOR)
	J	5	SINGLE	3755	1.040	365	BETALED, A DIVISION OF RUUD LIGHTING	CAN-227-SL-RM-03 LED RECESSED SOFFIT LIGHT (EXTERIOR)
D	J1	4					CREE, INC.	LED WALL MOUNTED LIGHT [LIGHT FIXTURES W/BATTERY BACKUP FOR EGRESS LIGHTING] CSNDBCT
Q	K	4					FC LIGHTING	6" ROUND UP/DOWN WALL MOUNTED DIE-CAST ALUMINUM CYLINDER
	М	1					PERSONA, INC.	CHANNEL LETTERS (CASEY'S GENERAL STORE) (WALL MOUNTED)

Electrical Lighting Plan

Lee's Summit, N 04/16/202

NOTE: ALL SPARE/FUTURE CONDUITS ARE TO BE LABELED TO WHERE THEY GO BOTH ENDS.

NOTE: ARMAFLEX ALL CONDUITS UP THRU FLOOR ALL ARE REQUIRED TO BE SEALED AROUND THE CONDUIT AT THE FLOOR LINE.

#### UNDERGROUND TELEPHONE SERVICE ENTRANCE AT D-MARK BOX

1-2"-VERIFY SIZE WITH TELEPHONE COMPANY

1-2" CONDUIT FROM D-MARK BOX TO FRONT COUNTER (LOTTO PHONE LINE)

A 3-WIRE SEPARATE CIRCUIT TO PROVIDE 117 (110-124 VOLTS AND A CURRENT UP TO A MAXIMUM OF 15 amp. IS REQUIRED. THREE SEPARATE WIRES (HOT, NEUTRAL, AND GROUND) MUST RUN THROUGH THE CONDUIT BETWEEN THE DUPLEX OUTLET AND THE TERMINAL AND FUSE BOX. IT IS NOT SUFFICIENT TO USE A METAL CONDUIT AS THE THIRD WIRE! THE DUPLEX OUTLET PROVIDES ONLY TWO

### MANAGER'S OFFICE AREA: (TANK MONITORING EQUIPMENT)

2 - 1 1/4" TO VR S-BOX

2 - 3/4" ONE TO PANEL & ONE TO SENECA BOX

#### MAIN ELECTRICAL PANEL ROOM: (SEE SHEETS 4/E-501, 5/E-501)

1 - 1" CONDUIT W/SEAL-OFF (PER) DISPENSER

1 - 3/4" CONDUIT W/SEAL-OFF (PER) SUBMERSIBLE PUMP (POWER)

2 - 1" CONDUIT W/SEAL-OFF FOR CANOPY (VERIFY CIRCUITS REQUIRED)

2 - 1" CONDUIT TO FRONT COUNTER FOR MISC. EQUIP.

1 - 3/4" CONDUIT TO FRONT COUNTER FOR INTERCOM.

1 - 2" CONDUIT FOR TELEPHONE (U.G.) STUBBED OUT

1 - 1" CONDUIT FOR SIGN

2 - 3/4" CONDUIT TO FRONT WALL FOR POWER OUTLET UNDER THE WINDOWS

1 - 1" CONDUIT W/SEAL OFF FROM SECURITY PANEL TO TOP OF CANOPY (LOW VOLTAGE) [WIRE TO BE 20 GAUGE - 2 CONDUCTOR - SHEILDED]

1 - 1" W.SEAL OFF (PER) SUBMERSIBLE (PROBE, INTERSTICAL, FLOAT AND PLLD) (LOW VOLTAGE)

## "USE STRANDED WIRE ONLY"

#### NOTES:

1.) ALL BLDG. & CANOPY WIRING MUST BE IN EMT ELECTRICAL CONDUIT

2.) PAGE QR-602, QR-603 & QR-604 FOR REFRIGERATION AND HAVAC WIRING

3.) REFRIGERATION COMPRESSORS LOCATED ON RACK SUSPENDED ABOVE SALES COOLER.

4.) HEIGHTS OF DUPLEXS TO BOTTOM.

5.) KITCHEN FREEZER COMPRESSOR LOCATED ON RACK SUSPENDED ABOVE SALES COOLER.

6.) ALL WIRING TO & FROM CLASSIFIED AREAS SHALL BE INSTALLED IN ACCORDANCE

WITH THE N.E.C.

7.) EXHAUST HOOD TO BE ON WALL SWITCHES WITH APPROPRIATE HOOD LIGHTS FIXTURES. SWITCHES TO BE LIGHTED PILOT TYPE AND LABELED.

8.) ALL KITCHEN OUTLETS TO BE WHITE WITH STAINLESS STEEL COVERS.

MATCH OUTLETS & COVERS PER ROOM WALL FINISHES. USE WHITE OUTLETS WITH WHITE COVERS ON WHITE FRP.

9.) THE REMOTE PULL REQUIRES TO BE RECESSED IN WALL WITH A

4 x 4 SQUARE BOX @48" TO CENTER A.F.F. SEE DETAIL ON AQ-101 FOR SCREWS POSITION.

10.) MEASUREMENTS FROM STUD WALLS.

11.) ALL UNDERGROUND MEASUREMENTS FROM INSIDE SHEETING LEDGE.

12.) ALL RIGID CONDUIT TO BE GALVANIZED STEEL

13.) ALL ELECTRICAL CONDUIT PENETRATIONS THROUGH THE WALK-IN COOLER/FREEZER CABINET ARE TO BE SEALED WITH DUCT SEAL POLYWATER FST FOAM 250. WIRING IN CONDUITS AND INTERIOR JUNCTION BOXES ARE TO BE SEALED WITH QUICK SEAL OR EQUAL SEALANT. FOR AIR AND WATER

TIGHT CONNECTIONS. 14.) WIRING FOR CANOPY IS TO BE IN EMT ELECTRICAL CONDUIT, INSTALL A GFI OUTLET W/WEATHER PROOF COVER ON TOP OF CANOPY.

15.) ALL CONDENSING UNITS AND COMPRESSOR RACK REQUIRE A DISCONNECT.

16.) INTERCOM SPEAKERS TO BE NUMBERED SAME AS THE ISLAND NUMBERS.

17.) HAVACR EQUIPMENT REQUIRE DISCONNECTS WITHIN 6' OF THE UNITS

18.) ALL NEUTRALS WIRES ARE TO BE WHITE COLOR.

19.) ELECTRICAL CONTRACTOR IS TO MAKE ALL FINAL CONNECTIONS TO D-MARK BOX.

20.) TELEPHONE JACKS ARE TO BE SUPPLIED BY ELECTRICAL CONTRACTOR.

21.) EMERGENCY SWITCH FOR PETROLEUM EQUIPMENT DISCONNECTS ALL FUELING RELATED SYSTEMS USING SENECA PANEL CONTROLS WHICH INCLUDES SHUTDOWN OF ALL SUBMERSIBLE PUMPS & ALL DISPENSERS(BOTH HOT & NEUTRAL CONDUCTORS) & PLLD FUNCTIONS OF THE VEEDER ROOT TLS-450. EMERGENCY SWITCH ALSO DISCONNECTS THE DATA DISTRIBUTION BOX & ALLIED NEX GEN BOX (BOTH HOT &

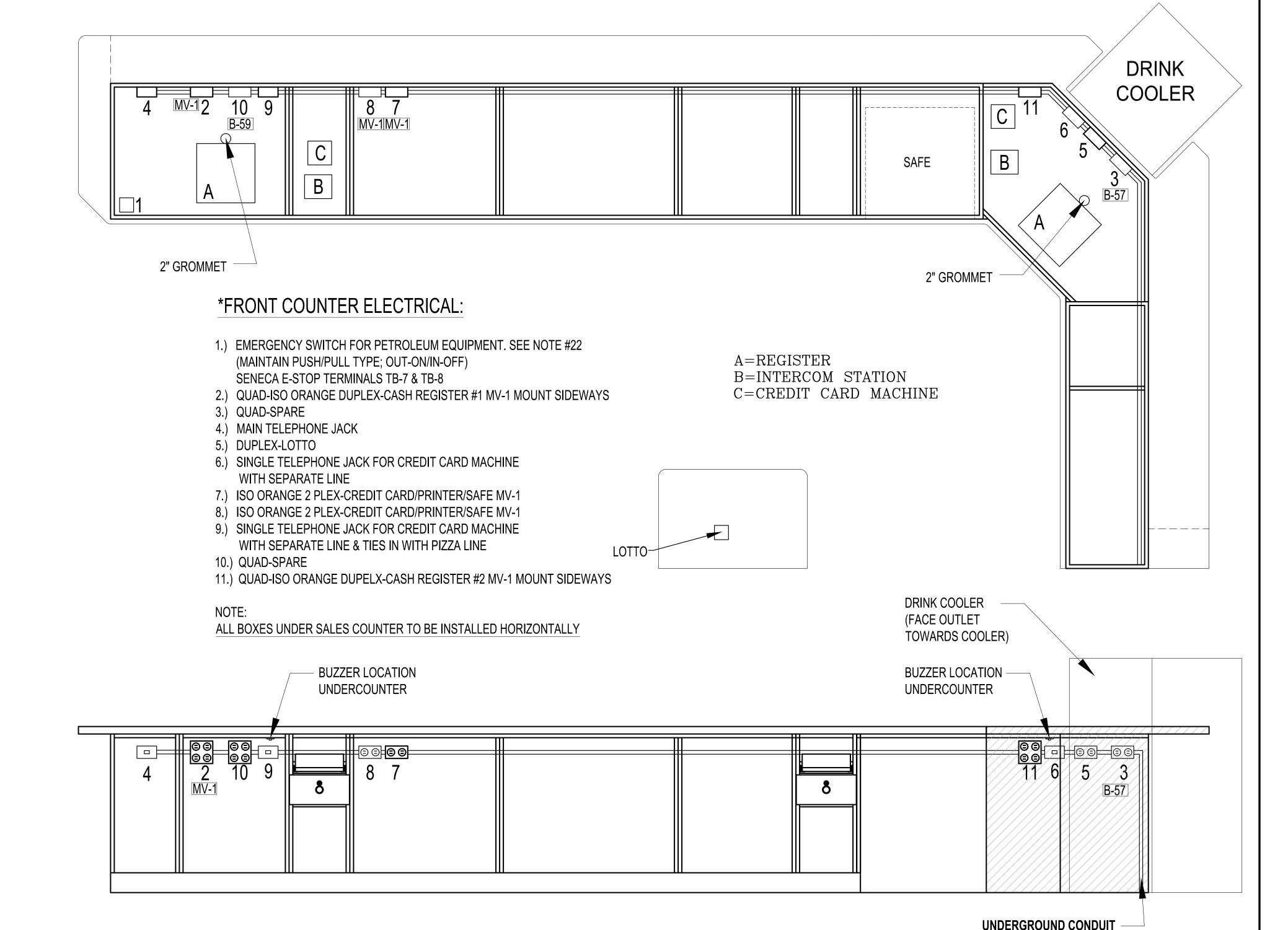
NEUTRAL CONDUCTORS) THROUGH THE ISO ORANGE OUTLETS ON MAC VICTOR BOX.

## "NO FLEX CONDUIT IN WALLS"

"NO! CORE CLAD WIRE ALLOWED"

SCH-40 PVC, INTERIOR UNDER SLAB SCH-80 PVC, EXTERIOR UNDER SLAB WITH LAST 10' @ EACH END CONNECTION GALV. RIGID

MC ONLY ALLOWED FOR LIGHTS 6' MAX WHIPS (STRANDED WIRE)



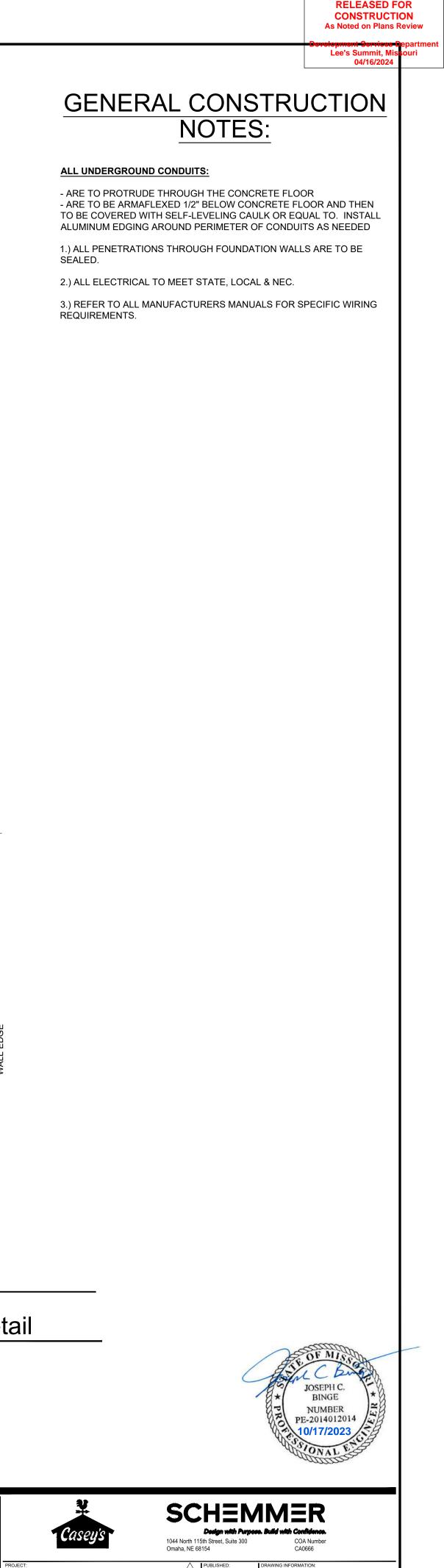
## Front Counter Electrical Detail

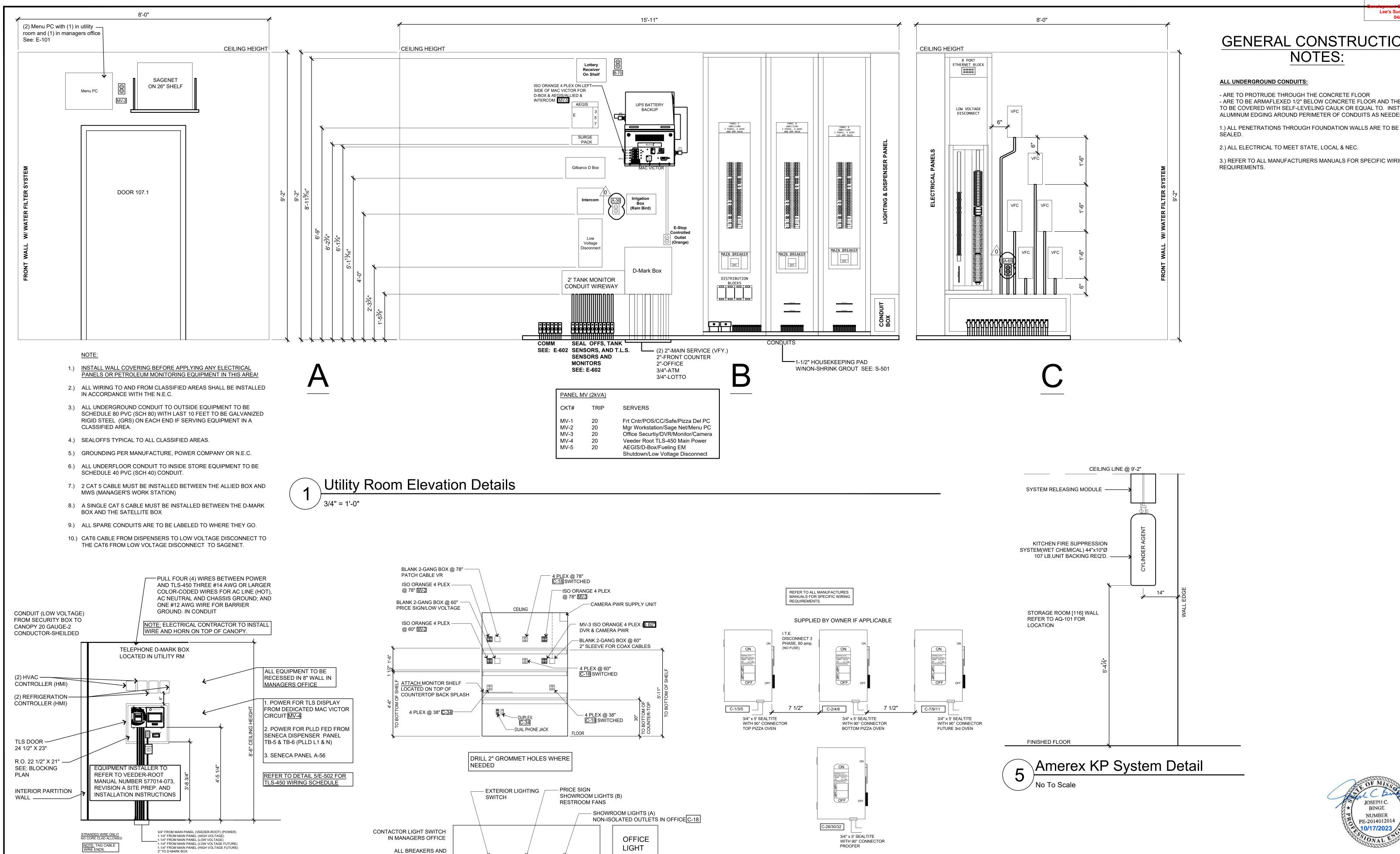
Scale: 1"=1'



Case	'e	. 111	MMER Purpose, Build with Confidence.
Caseg		1044 North 115th Street, Suite Omaha, NE 68154	2 300 COA Number CA0666
PROJECT:  CASEY'S GENER  MO-150 & ARBORID  LEE'S SUMMIT, MO  2023 - U4 - V.01		PUBLISHED: 10/18/ REVISED ON:	SALES COUNTER ENLARGED PLAN & DETAILS
PROJECT NUMBER: 07164.057  DRAWN BY:	CHECKED BY:		E-401

**SEE E-103 FOR LOCATION** 





MANAGERS OFFICE

WALL ELEV.

Tank Monitoring Detail

Managers Office Desk Switch Detail

LC 7

LIGHTING PANEL CONTACTORS

LC 8

LC 1,2,3

B-64

MOTION SWITCH

SWITCHES TO BE LABELED

LETTERS-LOGO-FRONT SOFFIT

LC1-CHANNEL

LC2-CANOPY LIGHT

LC3-AREA LIGHTS

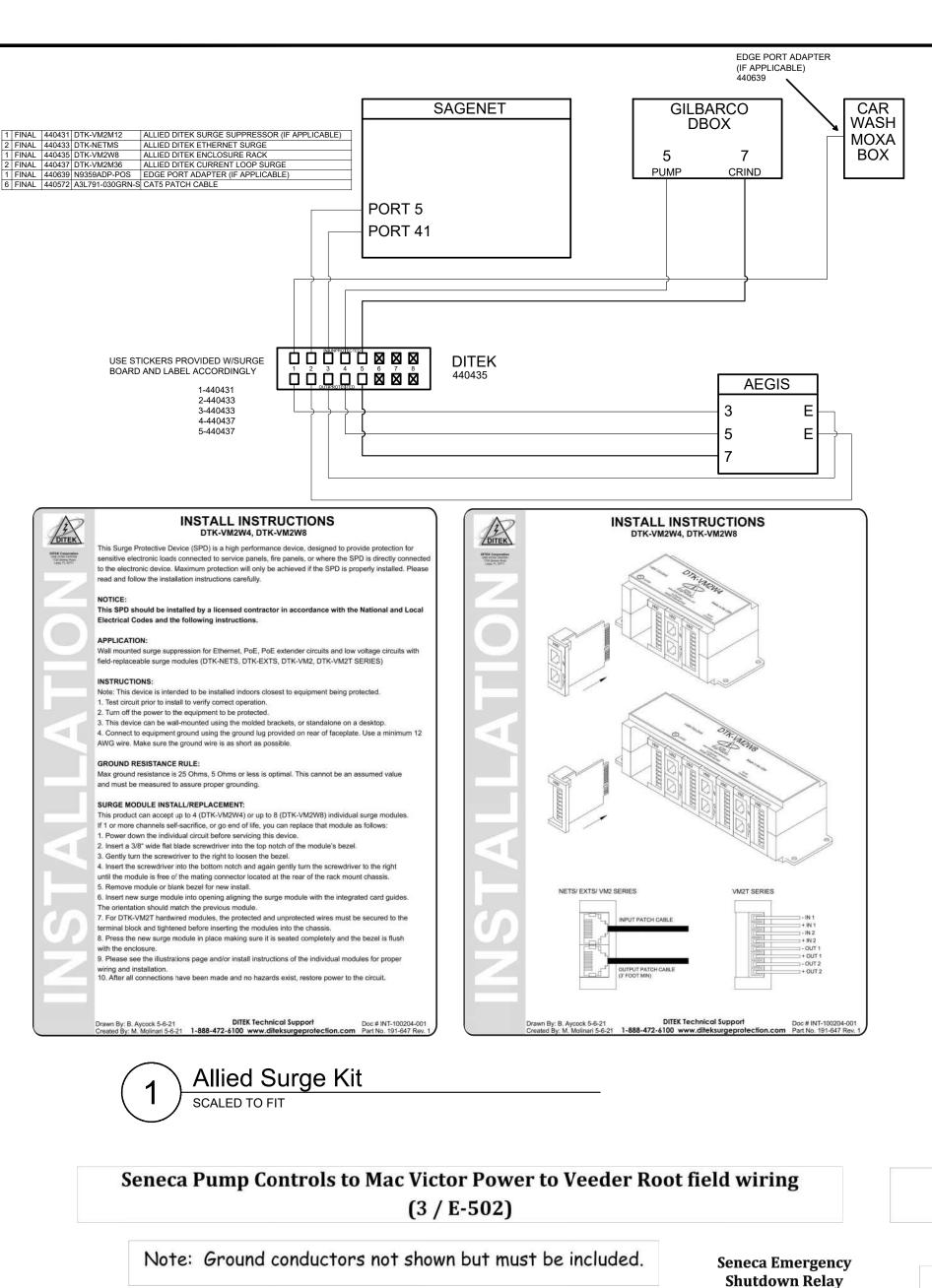
**Disconnect Detail** NO SCALE

CASEY'S GENERAL STORE 10/18/2023 **ELECTRICAL PANEL** MO-150 & ARBORIDGE DR **DETAILS AND** LEE'S SUMMIT, MO DIAGRAMS 2023 - U4 - V.01

E-501

PROJECT NUMBER:

07164.057



Seneca Dispenser Panel terminal strips.

(See diagrams for additional control wiring for

Dispensers and Submersible Pumps)

**Emergency Switch (N/C)** 

(located at front counter)

P1 PR L1 PO

Main

Power

MV-4L

21 22 22 23 23

**Veeder Root TLS-450** 

Mag VFC 1-4

(hooks)

PLLD Pump Control

(Typical 1 of 4)

**Mac Victor Power** 

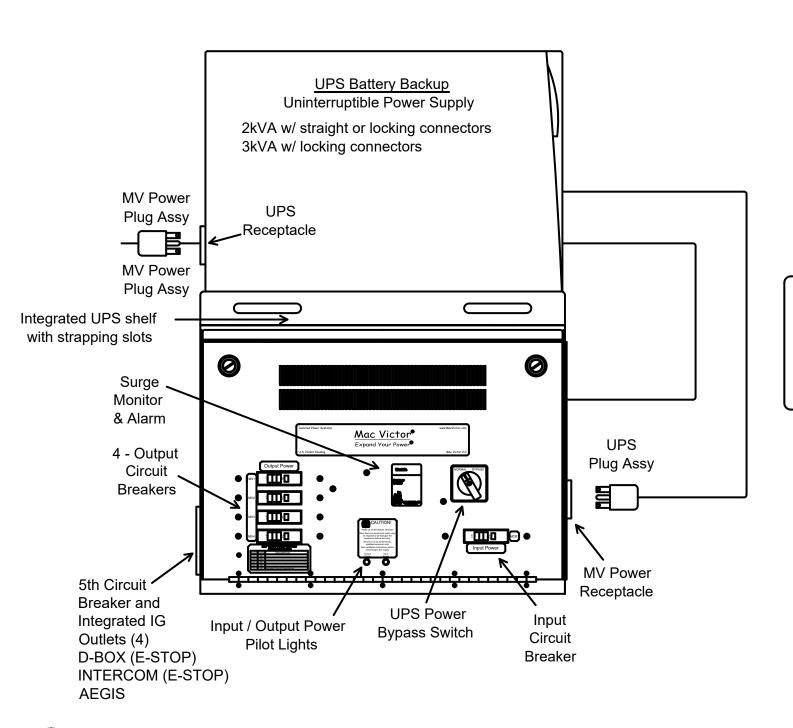
**MVP-2KL-IG-ES** 

Mac Victor EM terminal strip

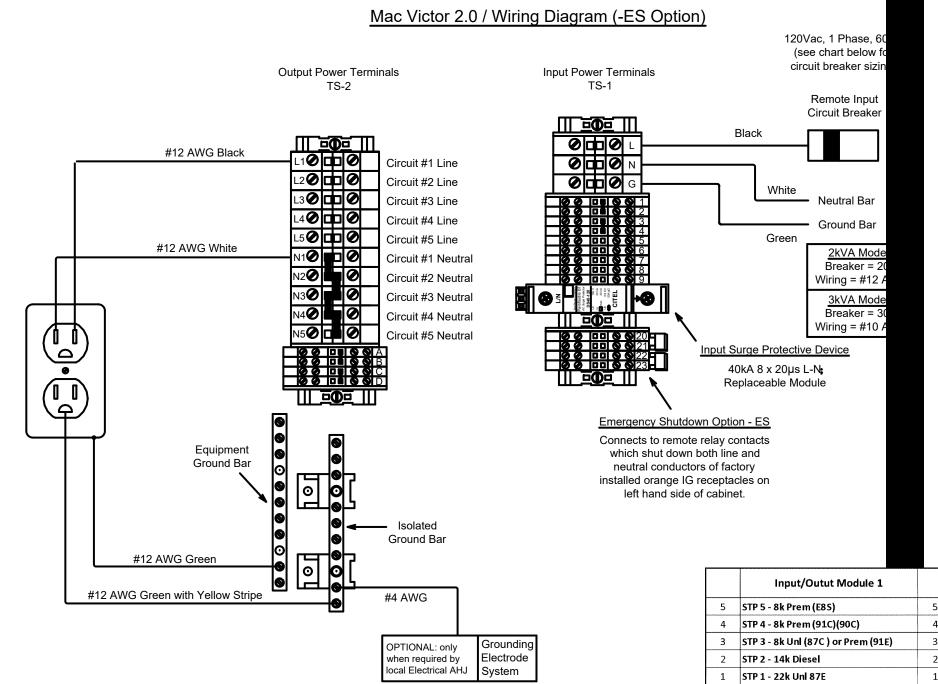
(TS-1 right hand side).

jumpers when wiring

Remove factory installed



Mac Victor Component/Wiring Diagram & Schedule



WARNING: RISK OF ELECTRICAL SHOCK AND PERSONAL INJURY.

Remote Input Circuit Breaker wiring must be run in separate conduit from all output wiring

Replace the Input SPD module if the front panel surge monitor goes into alarm condition

· All output wiring must be run in dedicated conduit or MC cable and not routed with any

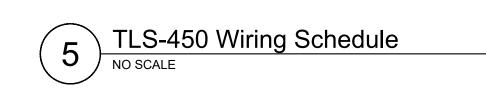
Dashed lines indicate field wiring

other equipment wiring to avoid induced voltages.

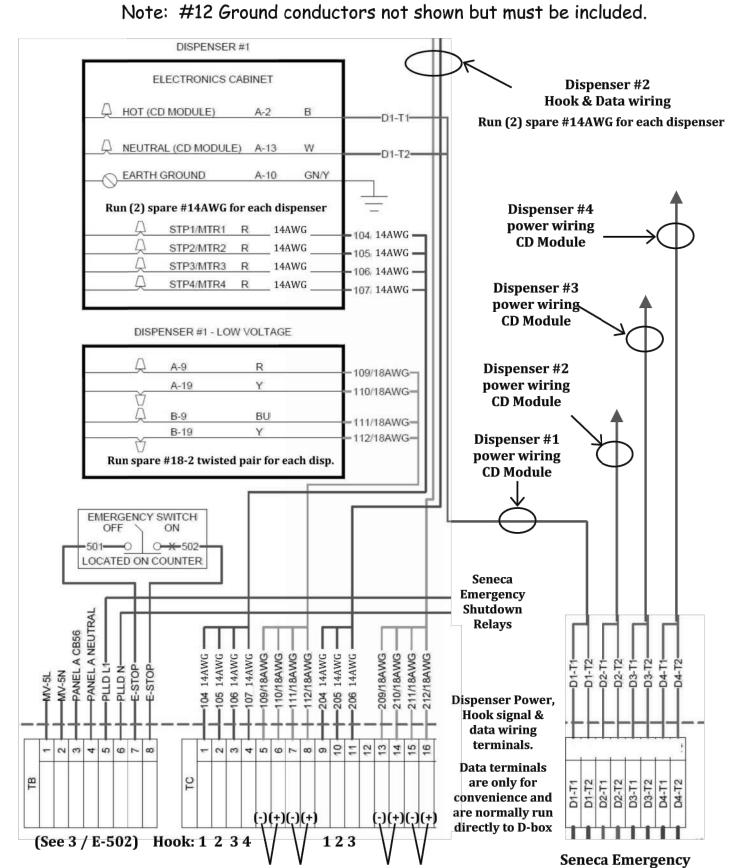
Mac Victor - Panel MV (2kVA) Casey's General Store Equipment Ground Bus: Y Voltage: 120Vac, 1PH, 3W Isolated Ground Bus: Poles: 5 Main Bus: 20A Main Circuit Breaker: 20A Mounting: surface Maximum capacity: 2000VA UPS Input Connector: 5-20P Subfeed from: Breaker A-67 (20A) Branch Circuit: #12L, #12N, #12G UPS Output Connector: 5-20R Serves MV-1 Front Counter Registers (2) 20 #12L, #12N, #12G, #12IG / IG outlets Credit Card reader / Safe Pizza Delivery PC MV-2 Manager Work Station PC's #12L, #12N, #12G, #12IG / IG outlets Office Monitor / Sage Net Menu Board PC driver MV-3 Security Box / DVR / Monitor Camera Box MV-4 Tank Monitor (TLS-450) hard wired through disconnect switch 20 Factory wired IG outlets / left hand side D-Box & Intercom Wired to emergency shutdown circuit Total Calculated Load : 1920 VA NOTES: Part Numbers: Mac Victor 2.0 = MVP-2KL-IG-ES / 2kVA UPS = MV-GT-2000T All branch circuit receptacles must be Isolated Ground (IG) type and orange colored to identify critical circuit... All branch circuits are 4 wire home runs (Line, Neutral, Ground, Isolated Ground) with #12AWG conductors. All branch circuit wiring must be dedicated, isolated circuits which are not shared with other equipment wiring. Do not share Neutral conductors with other circuits that are not on Panel MV. The daisy chain wiring configuration for multiple IG receptacles on a single branch circuit is acceptable. Input/Outut Module 2 Sensor Modules

Spare Truck Stop DEF 16 Dispenser Sump 8 Spare Truck Stop DEF/Diesel Tank 15 Spare 15 Dispenser Sump 7 Spare Truck Stop Large Diesel Tank | 14 | Spare 14 Dispenser Sump 6 Spare Truck Stop Large Diesel Tank 13 Spare 13 Dispenser Sump S 12 Dispenser Sump 4 11 DLLD 6 - 22k Unl 87E Dispenser Sump 3 10 DLLD S - 8k Prem (E85 10 Dispenser Sump 2 9 DLLD 4 - 8k Prem (91C) 9 Dispenser Sump 1 8 Tank Sump 6 - If Applicable 8 DLLD 3 - 8k Unl (87C) or Prem (91E) 7 DLLD 2 - 14k Diesel 7 Tank Sump 5 6 Tank Sump 4 6 DLLD 1 - 22k Unl 87E 5 **Probe S - 8k Prem (E85)** 5 Tank Sump 3 4 Probe 4 - 8k Prem (91C) 4 Tank Sump 2 3 Probe 3 - 8k Unl (87C) or Prem (91E) 3 Tank Sump 1 2 14k/8k/8k Interstitial 2 Probe 2 - 14k Diesel 1 Probe 1 - 22k Unl 87E ExpansionBox Required when more than 32 sensors are used - Truck Stop Situation

Schedule in TLS is required to be filled out by the Contractor (ELEC OR PETRO) that Terminates is Responsible Contact Construction Supervisor for Questions if differenct wiring conditions are required.



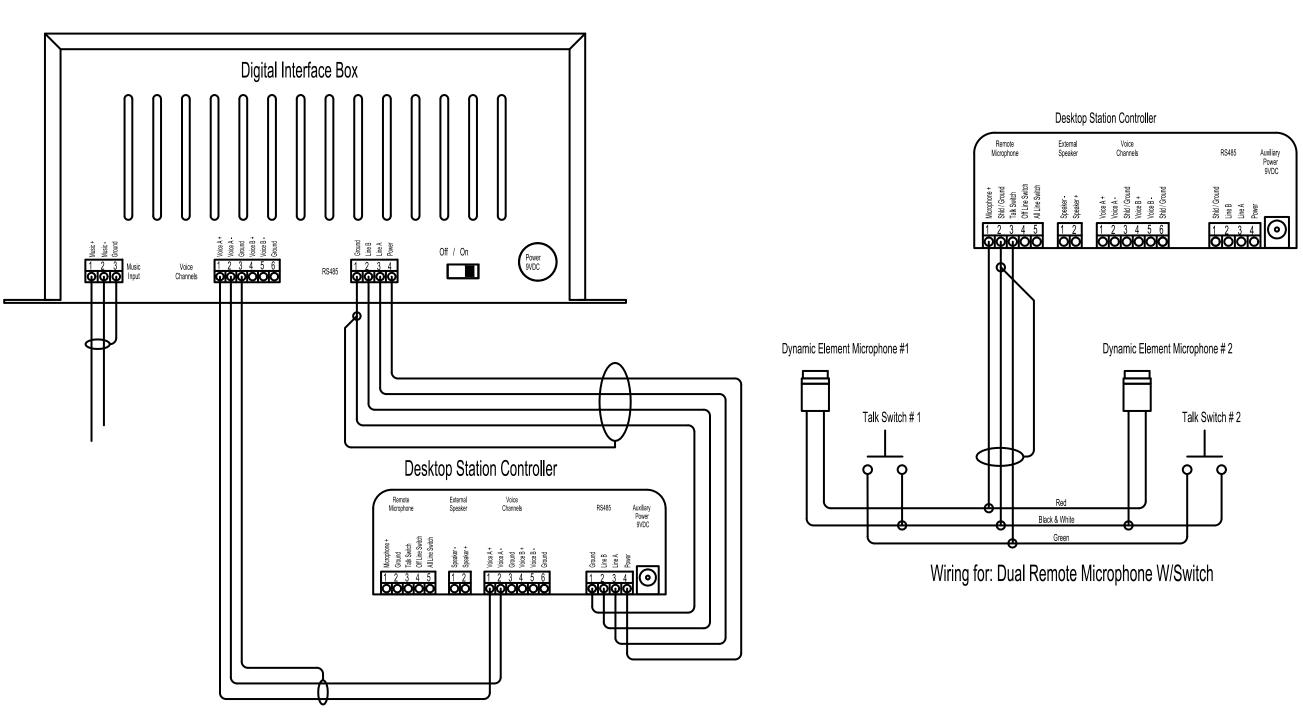
Seneca Pump Controls to Dispenser Power & Hook signals & Data (3A / E-502)





**Shutdown Relays** 

DATA: D-box terminals (TB1-P1)(TB2-P5) (TB1-P2)(TB2-P6)



Note: Wire only "Voice Channel A" when using one station selector.

Wire both "Voice Channels A & B" when using multiple station selectors.

Depending on distance use twisted pair, 14-22 AWG audio cable.

ESCO Intercom System Wiring Detail
NO SCALE

## GENERAL CONSTRUCTION NOTES:

ALL UNERGROUND CONDUITS ARE THAT PROTUDE THROUGH THE CONCRETE FLOOR ARE TO BE ARMAFLEXED TRIM ARMAFLEXED 1/2" BELOW CONCRETE FLOOR AND THEN TO BE COVERED WITH SELF-LEVELING CAULK OR EQUAL TO. INSTALL ALUMINUM EDGING AROUND PERIMETER OF CONDUITS AS NEEDED

1.) ALL PENTRATIONS THROUGH FOUNDATION WALLS ARE TO BE SEALED.

2.) ALL ELECTRICAL TO MEET STATE, LOCAL & NEC

3.) REFER TO ALL MANUFACTURES MANUALS FOR SPECIFIC WIRING REQUIREMENTS

DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.

Caseys Cas	ey's	Casey's
CASEY'S CONSTF One Convenience Blvd., P.O. Box 30		
2023 "U4" STYLE STORE V.01 FLAT ROOF	PUBLISHED: 03/15/23 REVISED ON:	ELECTRICAL EQUIPMENT DETAILS
/// INBY: CHECKED BY:		E-502

3 Input Power/EM Shutdown Wiring

Mac Victor terminal strip

(TS-2 left hand side)

Mac Victor factory installed

ISO orange outlets.

For EM shutdown of D-box

& Allied AEGIS units

(both Line & Neutral)

Seneca "hook" term

TC - wire 801,2,3,4

— A-56

---- A-Neutral

Panel A - Breaker 56

MV-5L

MV-5N

(PLLD Power)

Allied

AEGIS

Box

Data Distribution

(D-box)

							EL	EC.	TRIC	CAL:	PAN	NEL	Α							
DLTAGE:	: 208Y120						22	5 AM	P MAI	N CIRC	CUIT B	REAK	ER							FEED: SEE SCHEDUL
HASE: 30	Ø WIRE: 4						(	SERI	IES R	ATED 6	65,000	A.I.C	.)							MOUNTING: SURFAC
	DESCRIPTION	WIRE SIZE	NOTES (	A	VA B	С	BRK AMP	-	28.00	BUSS	8 8		BRKR AMP	Α	VA B	С	NOTES	LTG	WIRE SIZE	DESCRIPTION
	SUBMERSIBLE PUMP #1	#12		804	804	804	20		1 3 5	•		2 4 3	20	804	804	804				SUBMERSIBLE PUMP #5
	SUBMERSIBLE PUMP #2	#12		804	804	804	20	3	7 9	•	1	8	20	804	804	804			#12	SUBMERSIBLE PUMP #6
	SUBMERSIBLE PUMP #3	#12		804	804		20	1	13		1 1	4 6	20	416	416				#12	CANOPY LIGHTS
		70000		804		804		1	17 19		2	8 2	20	416		416			#12	CANOPY LIGHTS
	SUBMERSIBLE PUMP #4	#12			804	804		2	21 23	•	• 2	2 2	57000		416	416			*2570500000	CANOPY LIGHTS
	PLLD POWER			180	000		20		25			6 1	15	840						DISPENSER 6 (IF USED)
	PYLON & CANOPY RECEP	#12			360		20		27	1	-	8 1	100			4000				BLANK-DISP 6 SW NEUTRAL
	BLANK-DISP 1 SW NEUTRAL	11.4.3		2.12				_	29	$\Box$		0 1	20	6.15		1620		_		GENERAL POWER REC FRNT WALL
	DISPENSER 1			840	4000		15		31			2 1	15	840				-		DISPENSER 7 (IF USED)
	PYLON SIGN	#12			1080		20		33	•		4 1	-					$\perp$		BLANK-DISP 7 SW NEUTRAL
	BLANK-DISP 2 SW NEUTRAL	100							35		_	6 1	20			360		$\perp$		IRRIGATION
	DISPENSER 2	2000000		840			15		37			8 1	15	840						DISPENSER 8 (IF USED)
	DIGITAL PRICE SIGN	#12			240		20		39	•	$\overline{}$	0 1								BLANK-DISP 8 SW NEUTRAL
	BLANK-DISP 3 SW NEUTRAL							_	11			2 1	20			360				CUSTODIAN ROOM OULET
	DISPENSER 3			840			15	_	13			4 1	15	840						DISPENSER 9 (IF USED)
	CHANNEL LETTERS / LOGO	#12			1020		20		15	•		6 1								BLANK-DISP 9 SW NEUTRAL
	BLANK-DISP 4 SW NEUTRAL								17		$\rightarrow$	8 1	20			360				D-MARK TELEPHONE BOX
	DISPENSER 4	#14		840			15	1 4	19			0 1	15	840					115011111111111111111111111111111111111	DISPENSER 10 (IF USED)
	SPACE								51	•	5	2 1								BLANK-DISP 10 SW NEUTRAL
	BLANK-DISP 5 SW NEUTRAL								53			4 2	20			312			#12	AREA LIGHTS
	DISPENSER 5			840			15		55			6 6	20	312					#12	AREA EIGITIO
	FRONT WALL MONITORS				360		20	1 5	57	•	5	8	20		312				#12	AREA LIGHTS
	SHOW ROOM/DONUT CASE REC	THE STREET				1620	20	1 5	59		• 6	0 2	20			312			#12	AREA EIGITIS
	MAC VICTOR UPS	#10		1920			30	1 6	31		(	2 2	20	312					#12	AREA LIGHTS
	SOFFITT LIGHTS	#12			630		20	1 6	53	•	1 6	4 2	20		312				#12	AREA EIGITIO
	LIGHTING CONTROL POWER	#12				180	15	1 6	35			6 2	20			312			#12	AREA LIGHTS
	SECURITY LIGHTS #1			696			20	1 6	67		E	8 2	20	312				$\downarrow$		
	SECURITY LIGHTS #2	#12			696		20	1 6	69	•	7	0								SPACE
	BEAN TO CUP COFFEE	#12				1760	20	2 7	71		• > 7	2								SPACE
	BEAN 10 COL COLLE	#12		1760			20	- 7	73		7	4		_ ^						SPACE
	BEAN TO CUP COFFEE	#12			1760		20	2 7	75	•	7	6			$\sim$			u		SPACE
	BEAN TO COLLECT	#12				1760	20	7	77		• 7	'8								SPACE
				4078				7	79			10								SPACE
	RTU-3 KITCHEN	#6			4078		45		31	•			15		360					SMART SAFE
						4078		8	33		• 8	4 1	15			180			#14	E STOP
	BUS A: 23626 BUS B: 16864 BUS C: 18870			16050	13440	12614	]	•	V	'A TOT	AL			7576	3424	6256				
TOTAL VA	: 59360		A	MPS =	165										REVISION	ON NO.				2022-U4-V.02 - MAY 10, 2022

PANEL A	
NQ MB PANEL (INT, BOX, FRT)	
NQ PANELBOARD	
CONSISTING OF	
208Y/120 VAC 3PH 4W 60 HZ	SCCR:22K
MAIN: 225A LA BREAKER	
INCOMING CONDUCTOR(S):	(1) 3/0 - 350 kcmil
BUS: COPPER	SILVER/TIN PLATING
GROUND BAR	
TYPE 1	62"H X 20"W X 5.75"D
INCOMING: TOP	SURFACE HINGED
BOX CAT#: MH62BE	FRONT CAT #: NC62SHF
REF. DRAWING: PBA 707HR	
BRANCHES:	

OLTAGE: 208Y120							40	0 AM	P MA	AIN C	IRCU	IT BRE	AK	ER							FEED: SEE SCHE
IASE: 3Ø WIRE: 4								SERI	ES F	RATE	D 65,	000 A.	I.C.	)							MOUNTING: SUR
DECORPICTION	WIRE	NOTEO	υ		VA		BRK	R C	KT	BU	ISS	CKT	В	RKR		VA		NOTEO	O	WIRE	DECODIDEION
DESCRIPTION	SIZE	NOTES		Α	В	С	AMP	P N	0.	CO	NN	NO.	Р	AMP	Α	В	С	NOTES	Ľ	SIZE	DESCRIPTION
REFRIGERATED SANDWICH CASE	#12			1650			20	2	1	•	Ш	2	1	20	360					#12	DRINK COOLER
REPRIGERATED SANDWICH CASE	#12				1650		20	4	3			(4	1.	T.					Ť		ŠPAČE
SPACE									5		•	6	1	20			216		hightharpoonset	#12	KITCHEN COOLER EVAP. FANS
				2064	)				7	•		8			2088						
STORAGE COOLER CU	#10				2064		30	3 9	9		•	10	_	30		2088				#10	SALES COOLER CU
			$\perp$			2064			1		<u> </u>	12	1				2088				
0A1 F0 PT1 #0			1	5280					3	•	Ш	14	2	20	1581	1501				#12	STORAGE COOLER EVAPORATOR
SALES RTU #2	#4		-		5280	5000	60		5			16	_			1581	4504	7	$\vdash$	7	
SPACE			++		-	5280			7	+	<b>⊢</b>	18	2	20	4504		1581			#12	STORAGE COOLER EVAPORATOR
SPACE			+					_	9	•		20			1581	1581			$\vdash$		
SPACE			++					2	3			22	2	20		1001	1581			#12	SALES FREEZER EVAPORATOR
SALES COOLER EVAP FANS	#12		+	648			20	1 2		$\perp$	H	26	1	20	780		1301			#12	CARBONATOR
SALES FRZ DOOR HEAT&LIGHTS	33/33/33		++	040	480		20	1 2		T	Н	28		20	700	1080	1		$\vdash$	#12	MUSIC & VIDEO
SALES COOLER DOOR LIGHTS			+		400	684	20	1 2		++	Н	30		20		1000	550		$\vdash$	#12	STOR. COOLER DOOR LIGHT & HEAT
KITCHEN FRZ DR HTR & DRAIN			+	690	-	001	20	1 3			Н	32		20			000		$\vdash$	1112	SPACE
KIT FRZ/COOLER SERV LIGHTS			+		480		20	1 3		H	Н	34	_	20		1788			$\vdash$	#12	ICED TEA GFI
SALES COOL/FRZR. SVL LIGHTS			+			480	20	100	5	+		36	Ť	-		11.00	7		$\vdash$		SPACE
DOUGH ROLLER			+	1056	*		20	1 3		•	Н	38	1		1581				$\vdash$	"40	CASA (SAA SE) CONTROL
PIZZA PREP TABLE GFI			++		1020		20		9		•	40	2	20		1581				#12	KITCHEN FREEZER EVAPORATOR
FLOOR MIXER	#12					1680	20	1 4		+		42	1	20			1840		$\vdash$	#12	FRESH BLENDER
PIZZA FINISH TABLE GFI	#12			350			15	1 4	3	•	iti	44									SPACE
12 FT HOOD	#12				600		20	2 4	5	111	•	46	1	20		1440				#12	WARMERS GFI
						600	20	4	7		•	48	1	20			1440			#12	WARMERS GFI
S/C POP ICE MAKER				1840		,	20	1 4	9	• 1		50	1	20	336					#12	CREAMER GFI
S/C POP ICE MAKER					1840		20	1 5			•	52	1	20		1440	2	g		#12	WARMERS GFI
GFI POP DISP DPLX			$\perp$			420	20		3		•	54	1	20			1020			#12	SUB SANDWICH PREP TABLE GFI
GFI POP DISP DPLX	9000000		$\perp$	420			20	115	5	•	Ш	56		20	1800					#12	CAPPUCCINO #1 GFI
FRONT COUNTER 4 PLEX#1	#12		$\perp$		900		20	1 5		111	•	58	_						$\perp$		SPACE
FRONT COUNTER 4 PLEX #2			+			900	20		9	$\perp$	<b></b>	60	1.						┡		SPACE
EX HOOD CONTROL	33 3500		+	180	400		20		1	•	Ш	62	-		720	400			$\vdash$		ATM ISO RECEPTACLE
HOOD EXTINGUISHER SPACE	#14		+		180		15			++1		64	1			480	100		$\vdash$	#12	KITCHEN/OFFICE LIGHTS
SPACE			++						57	++	H	66	_	20	1800		120		$\vdash$	#12	WATER HEATER KITCHEN DUPLEX/TABLE TOP MIXER
SPACE			+++						9		Н	70	_	20	1000	180	b		$\vdash$	#12	LOTTO PWR ISOLATED DPLX
RESTROOM GFCI REC	#12		+			360	20	1 7				72		_		100	540	X	$\vdash$	#12	MAU/RTU SERV. RECEPT
SPACE	#12		++		Ş	300	20		3	$\bot$		74	_	_	1500		340		+	#12	MICROWAVE GFI
WINE CASE (HUSSMANN GSVM)	#12		++		1035		15		5			76	_	20	1000				+	1112	SPACE
HOOD EXHAUST SERV REC			+		1000	180	20		7			78							+		SPACE
			+	2735		,,,,			9	•	Н	80							$\vdash$		SPACE
MAU UNIT	#10		1 -		2735		30			1	•	82	1	20		720			$\vdash$	#12	OUTSIDE ICE CHEST FRONT RIGHT
CONSIDERATION SOCIONARIA						3735	3.31.63	8	3	$\top$	١,	84	1	20			720			#12	OUTSIDE ICE CHEST FRONT LEFT
												- //-									•
				16913	18264	16383				VA T	OTAL	_			14127	13959	11696				
ATTS: BUS A: 31040			.,	-			1111		1,4-1,5			270		,	22						
BUS B: 32223																					
BUS C: 28079																					
OTAL VA: 91342			AME	PS =	254											REVISION	ON NO.	1			2022-U4-V.02 - JUNE 29, 2022

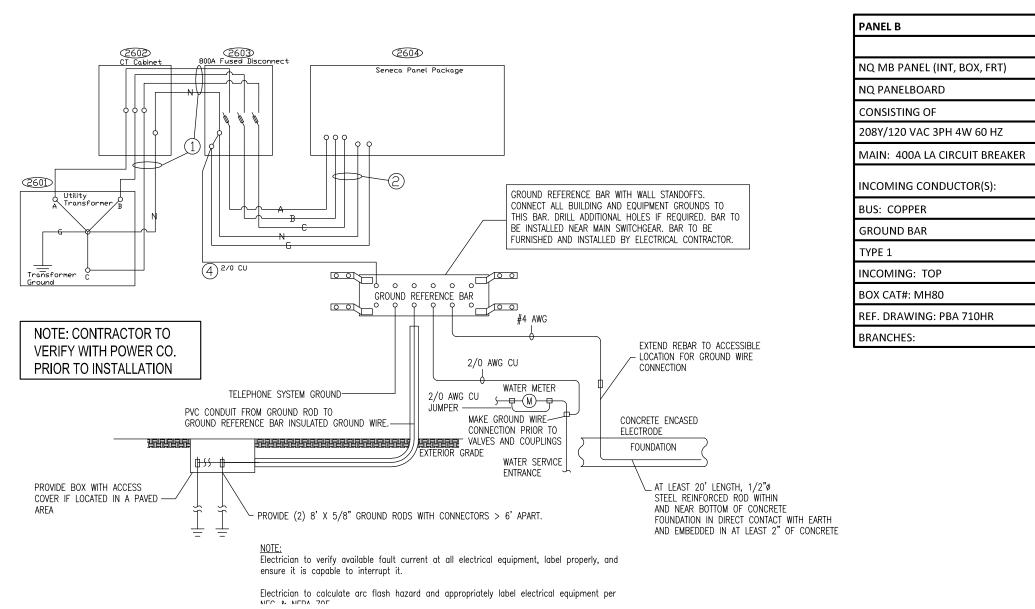
**ELECTRICAL: PANEL B** 

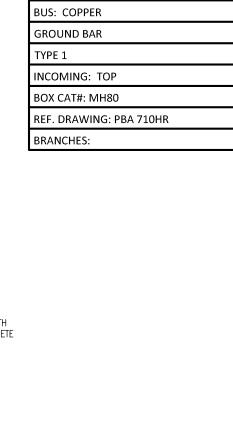
									ECTR	ICA	L. I	AIN		C							
OLTAGE: 208	3Y120							400	AMP M	AIN C	IRCL	IIT BF	EAK	ER							FEED: SEE SCHEDULE
HASE: 3Ø	WIRE: 4					8			SERIES	RATE	D 65			,							MOUNTING: SURFACE
	DESCRIPTION	WIRE	NOTES	G		VA	1	4 10 14 10 4 CA 1 14	R CKT	В	JSS	74.75.00		BRKR		VA		NOTES	O	WIRE	DESCRIPTION
	BEGGRIF HON	SIZE	NOTES	그	Α	В	С	AMP	P NO.	C	NNC	NO	). P	AMP	Α	В	С	10120	LTG	SIZE	BEGGINI HON
					3600			177700	1	•		2	-	035200	3600					Water	
	TOP PIZZA OVEN	#8		8		3600		40	3 3	$\perp$	•	4	// // //	40		3600				#8	BOTTOM PIZZA OVEN
		16		_			3600		5			• 6	_				3600				ALUTAINE DI DA DEACOT
	MIDDLE DIZZA OVENI	40		3	3600	2000		40	7	•		8		20	720	700					OUTSIDE BLDG RECEPT
	MIDDLE PIZZA OVEN	#8				3600	3600	40	3 9	+	•	10		20	-	720	720		+	1000 STREET	OUTSIDE ICE CHEST LEET
				+	5280		3600		11	$\perp$		12	_	20			720		+	#12	OUTSIDE ICE CHEST LEFT SPACE
	SALES RTU #1	#4			5260	5280		60		1		16	_	20		360			+	#12	KIT FREEZER HEAT/OUTLET
	SALLS KIS #1	""				3200	5280	"	17	++	1	18		20		300	720		+	#12	MNGR OFFICE SW OUTLETS
	SPACE	-		+-		-	3200		19	$\perp$		20	_	20	1080		120		+	#12	DIGITAL MENU MONITORS
	SPACE	. 12	<u> </u>	+					21	+		22	_	20	1000	360					DUPLEX KITCHEN (PEST)
	SPACE		8						23	+	Η,	24		20		- 000	525				KITCHEN QUAD OUTLET GEL
	SPACE			-		-	S		25	•		(20			$\sim$			$\sim$			SPACE
	SPACE								27	++	•	21			<b>→</b>	2400	$\overline{}$		4	$\sim$	
	SPACE								29	$\pm$	١,	30	- 2	30			2400			#10	BREAD OVEN/PROOFER
<b>***</b>	TENDEDI OIN EDVED OF	#40		$\overline{}$	1730	$\sim$	$\sim$		31	•		32			2400			4			
	TENDERLOIN FRYER GFI	#10			V20014240.0000	1730		30	33	11	•	34	_	20		720				#12	DUPLEX MANAGER'S OFFICE
	SPACE	$\sim$			$\sim$				35	$\top$		36	3 1	20			720			#12	HEAT TAPE OUTLET SALES FRZ
	SPACE								37	•		38	3								SPACE
	SPACE								39		•	40									SPACE
	SPACE								41			42	2 1	20			468			#12	STORAGE COOLER HEAT TAPE
	BATH RM.BACK RM LIGHTS				240			20	1 43	•		44		20	1760					#12	BEAN TO CUP
	CEILING LIGHTS 1 & 2					720		20	1 45	$\perp$	•	46	_			1760				RIAM MARK	PL-040402180400004940004494000
~~~	CEILING LIGHTS 3 & 4	#12			$\sim$		720	20	$\rightarrow$			48		20			1596			2015077875771	MENS HAND DRYER
	EXTÉRIOR LIGHTS				500			20	1 49	•		50	_	20	468						BATH EXHAUST FAN
	EXTERIOR LIGHTS			$\rightarrow$		500		20	1 51		•	52	_	20		1800	4000			#12	COLD BREW COFFEE #1
	CUSTODIAN LIGHTS	100000000000000000000000000000000000000			700		225	20	1 53	$\perp$	'	54	7 10	20	4500		1800				COLD BREW COFFEE #2
	CIGARETTE RACK			+-	720	400			1 55	_		56			1596	700			+	ALIAN ACCU	WOMENS HAND DRYER
	AIR COMPRESSOR SPACE	#12		+		468	-	20	1 57	++	•	58	_	20	-	720	000		-		WATER SUITER OUTLET
	SPACE		30 17	-					59	+	1	60	_	20	220		900				WATER FILTER/GP OUTLET
	SPACE			-			S .		61	1	$\vdash$	62	_	20	230	-			-	#12	ATTIC OUTLET SPACE
	OF AGE	-		+-		-	3603		65	++		66	_	20	-		230		+	#12	ATTIC LIGHTS
	SALES FREEZER CU	#10		8	3603		3003	30		$\perp$	H	68	_	20			250		+	#12	SPACE
	CALLO ERLELLER GO				5005	3603			69	+		70									SPACE
			22	+-		0000	3490		71	++	1	72					449			#12	ICE CREAM MERCHANDISER
	KITCHEN FREEZER CU	#10		3	3490			20	3 73	•		74	_	20	360					200200000000000000000000000000000000000	PAPER TOWEL DISPENSERS
				- 8		3490			75		•	70	$\sim$	M	~~	$\sim$			$ \uparrow $		SPACE
			2.				1802		77	+	Η,	78			^ ^						SPACE A A A A A A A
	KITCHEN COOLER CU	#12		- 5	1802		33333333	15	3 79	•		80									SPACE
						1802			81		•	82	2						T		SPACE
	SPACE								83	$\top$		84	1								SPACE
/ATTS: BUS BUS BUS	B: 37233	1			24565	24793	22320		[	VA 1	ГОТА	9		I	12214	12440	14128				
500																					

PANEL C	
NQ MB PANEL (INT, BOX, FRT)	
NQ PANELBOARD	
CONSISTING OF	
208Y/120 VAC 3PH 4W 60 HZ	SCCR:22K
MAIN: 400A LA CIRCUIT BREAKER	ULSE SERIES RATED
INCOMING CONDUCTOR(S):	(1) #1-600 kcmil or (2)#1-250 kcmil
BUS: COPPER	SILVER/TIN PLATING
GROUND BAR	
TYPE 1	80"H X 20"W X 5.75"D
INCOMING: TOP	SURFACE HINGED
BOX CAT#: MH80	FRONT CAT #: NC80VSHR
REF. DRAWING: PBA 710HR	



ELECTRICAL LOAD C	CALCULATIONS	3	NEC
BUILDING NAME: CA	SEY'S GENER	AL	REFERENCE
LIGHTING:	INTERIOR	7,347 VA	TABLE 220.12
	EXTERIOR	8,192 VA	TABLE 220.14 (f)
RECEPTACLES:		04 000 \/A	220.14 (f) &
TOTAL		21,220 VA	TABLE 220.44
FOOD SERVICE EQUIPME	NT	96,726 VA	TABLE 220.56
HVAC SYSTEMS		48,720 VA	NAMEPLATE DAT
FUEL EQUIPMENT (PUMPS	S, ETC.)	20,508 VA	NAMEPLATE DAT
REFRIGERATION SYSTEM	IS	41,560 VA	NAMEPLATE DAT
FUTURE		10,800 VA	
TOTAL BUILDING LO	AD		
265,806 VA/360 V = 738 A		255,073 VA	
800 AMPS AT 120/208 VOL 3 PHASE, 4-WIRE	.TS		





## **General Notes**

Not To Scale

2601 Contractor shall verify if service is to be overhead or underground.

2602 48" X 48" hinged door NEMA 3R cabinet with power distribution blocks

2603 IF REQUIRED Heavy duty fused NEMA 3R safety switch 800 Amp 120/208 Volt 3 phase. If required by NEC or the Local Utility.

2604 Pre-assembled and UL listed Panel Package

Electrical System & Grounding Detail

(2) 4" Conduit (4) 600 KCMIL CU/conduit

(2) 4" Conduit (4) 600 KCMIL CU/Conduit (1) 1/0 CU Ground/Conduit

Connect 2604 to ground reference bar with appropriate sized conductor and ensure panels N-G are bonded.

Connect 2604 to ground reference bar with appropriate sized conductor and ensure disconnect N-G are bonded.

As a	E OF MISS	A. C.
*	JOSEPH C. BINGE	F* 8
	NUMBER PE-2014012014 10/17/2023	NEER
000	STONAL EN	
	40000	

SCCR:22K

ULSE SERIES RATED

SILVER/TIN PLATING

80"H X 20"W X 5.75"D

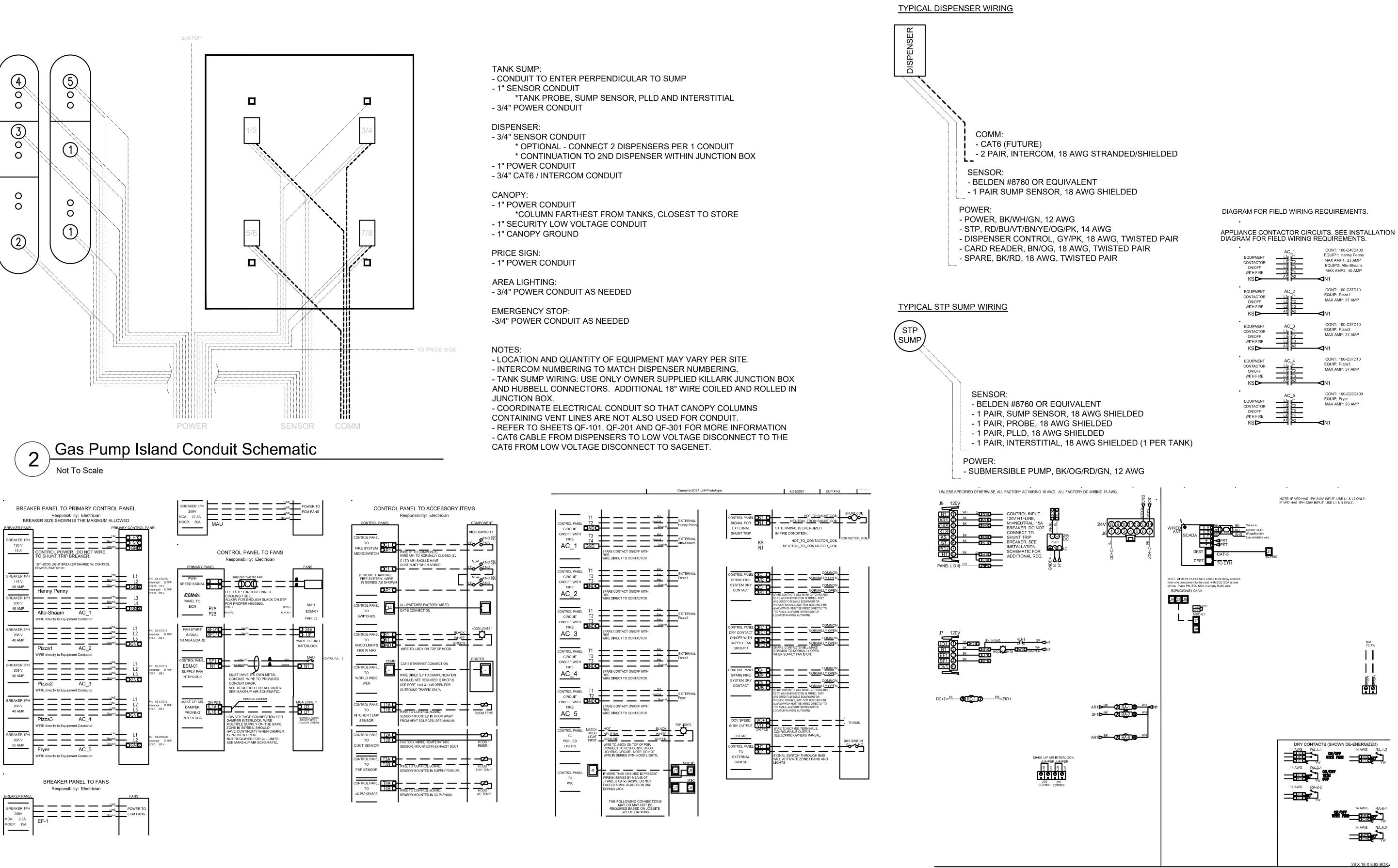
FRONT CAT #: NC80VSHR

SURFACE HINGED

(1) #1-600 kcmil or (2)#1-250

			Million
<b>C</b> assens	•	•	rpose. Build with Confidence.
		1044 North 115th Street, Suite 300 Omaha, NE 68154	CA0666
CASEY'S GENERA		0 PUBLISHED: 10/18/20 REVISED ON:	23 PANEL SCHEDULES
MO-150 & ARBORIDGI LEE'S SUMMIT, MO	E DR		& SERVICE
2023 - U4 - V.01 PROJECT NUMBER:			DETAILS
07164.057			E-601
DRAWN BY:	CHECKED BY:		

Lee's Summit, N

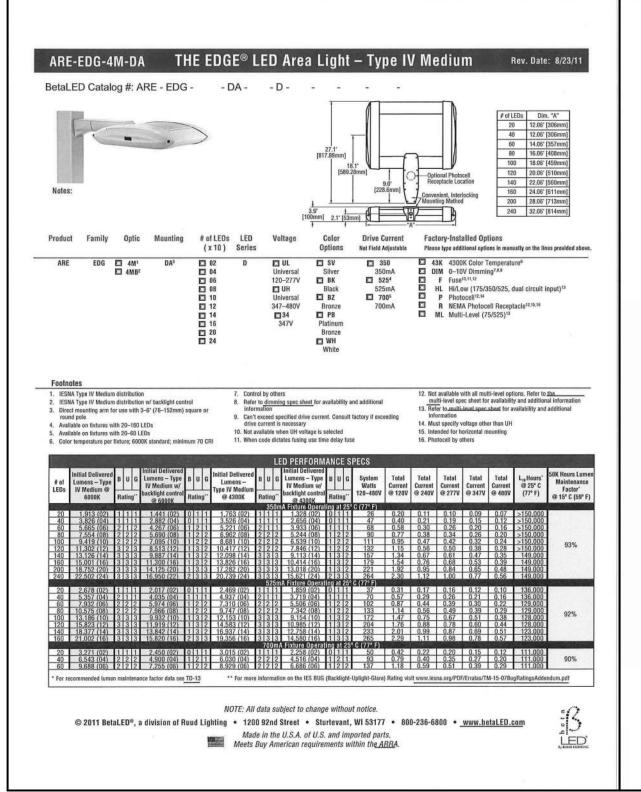


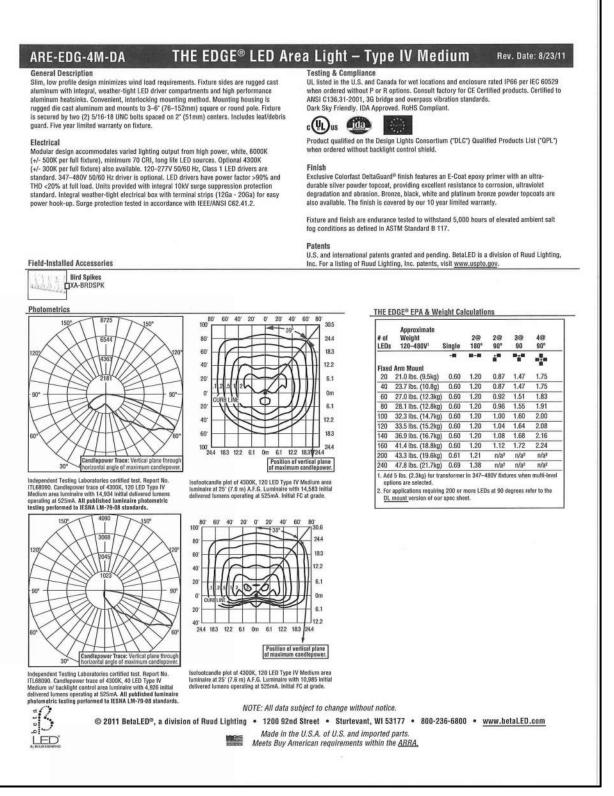
Captiveaire Control Panel Diagram - Hood Extinguisher Contactor / HVAC Control Schematic

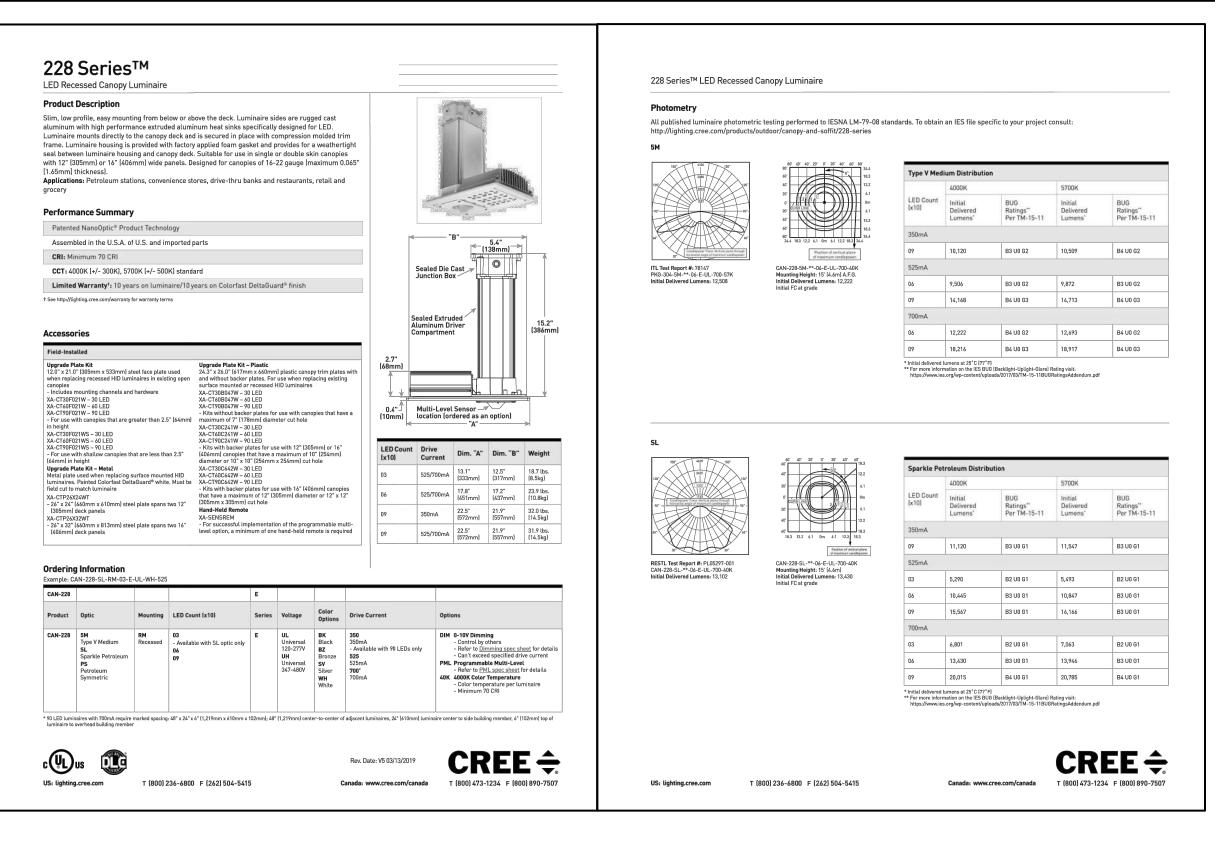
Not To Scale

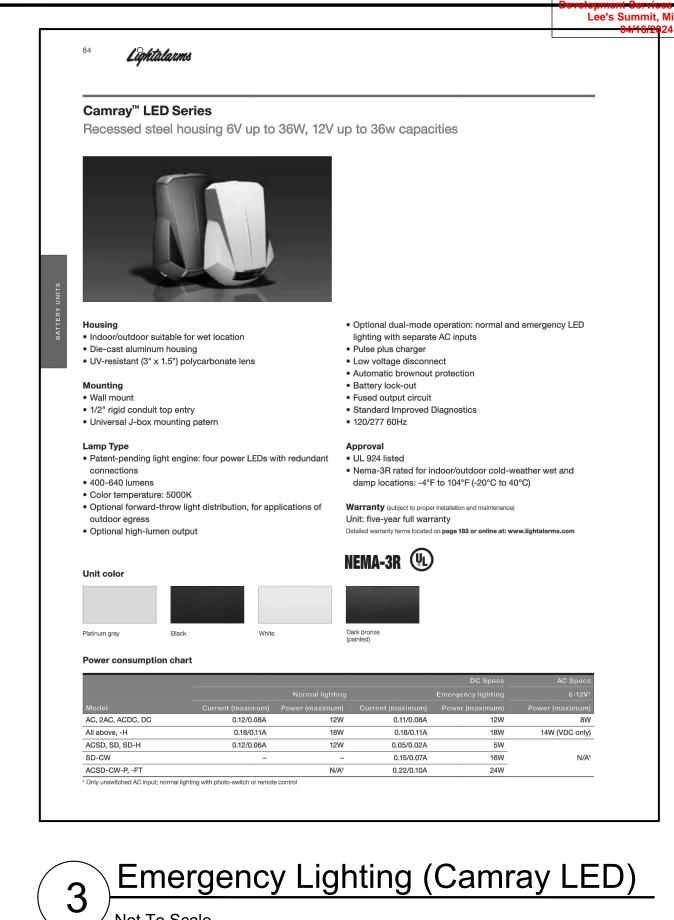


¥	SCHEM	MER
Cacava	Design with Purpose.	Build with Confidence.
cuseys	1044 North 115th Street, Suite 300 Omaha, NE 68154	COA Number CA0666
CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	PUBLISHED: 10/18/2023 REVISED ON:	ELECTRICAL SCHEDULES & SCHEMATICS
PROJECT NUMBER: 07164.057		F-602







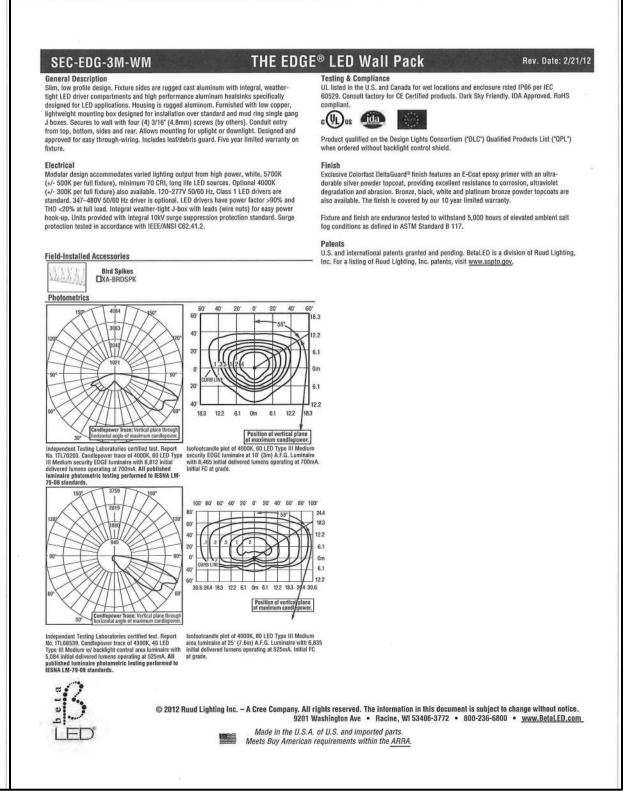


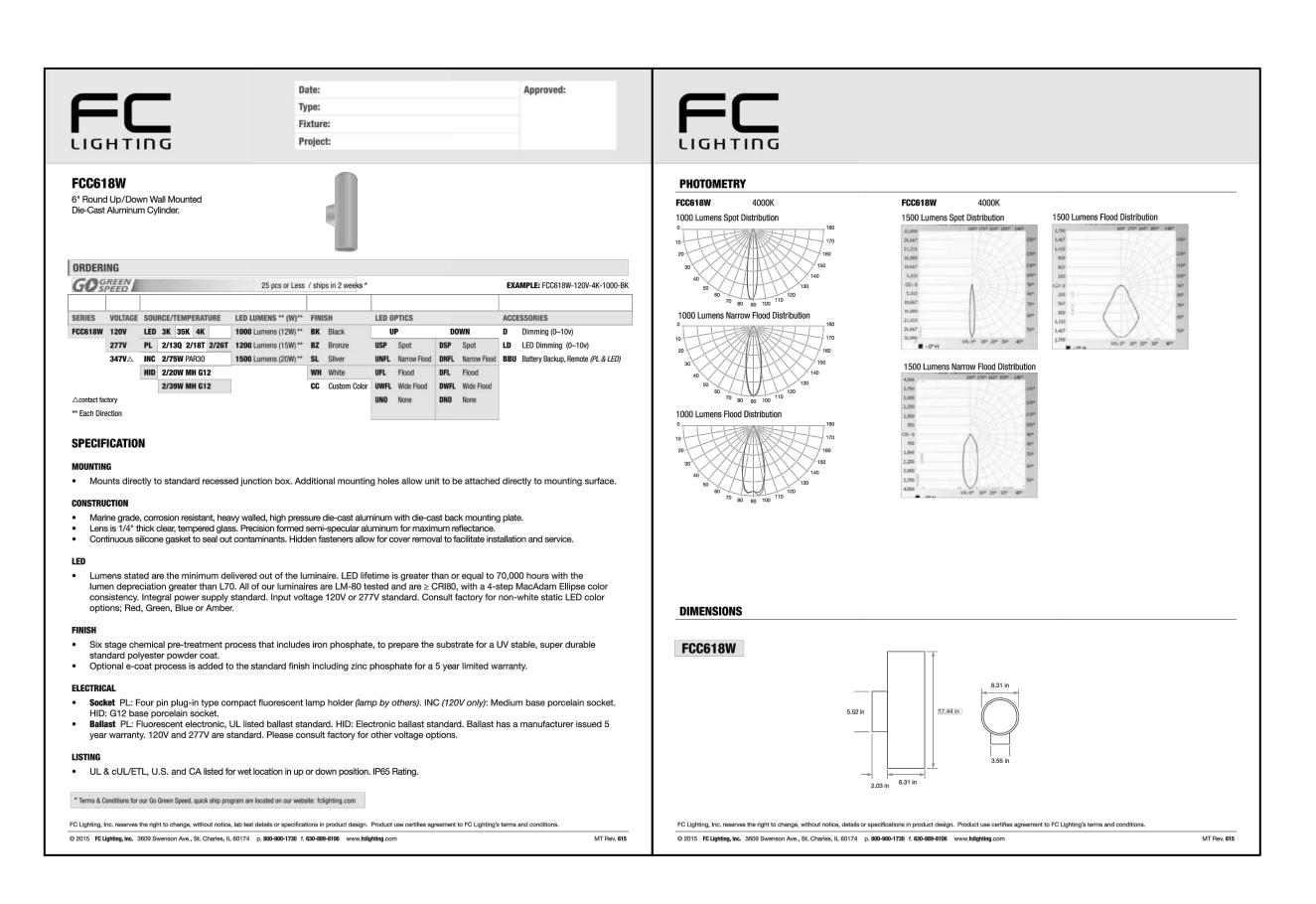
Beta LED Area Light

CREE 228 Series LED Recessed Soffit Light

THE EDGE® LED Wall Pack Rev. Date: 2/21/12 BetaLED Catalog #: SEC - EDG - - WM - - D - - - -Color Drive Current Factory-Installed Options
Options Not Field Adjustable Please type additional options in manually on the Ilnes pr SV 350mA
Silver 350mA
(standard) 525\*
BK 525mA
Black 700\*
BZ 700mA
Bronze
PB
Platinum
Bronze
WH
White IESNA Type III Medium distribution
 IESNA Type III Medium distribution w/ backlight control
 Wall mount Refer to <u>dimming spec sheet</u> for availability and additional information Must specify voltage other than UL or UH 13. Refer to multi-level spec sheet for availability and additional information 4. Available on fixtures with 20-80 LEDs 10. When code dictates fusing use time delay fuse U G Lumens - Type III B U G System Total Total Total Total Total Ly, Hours - Maintenance Watts Current Current Current Current Current Garrent © 2012 Ruud Lighting Inc. – A Cree Company. All rights reserved. The information in this document is subject to change without notice.

9201 Washington Ave • Racine, WI 53406-3772 • 800-236-6800 • www.BetaLED.com Made in the U.S.A. of U.S. and imported parts. Meets Buy American requirements within the ARRA



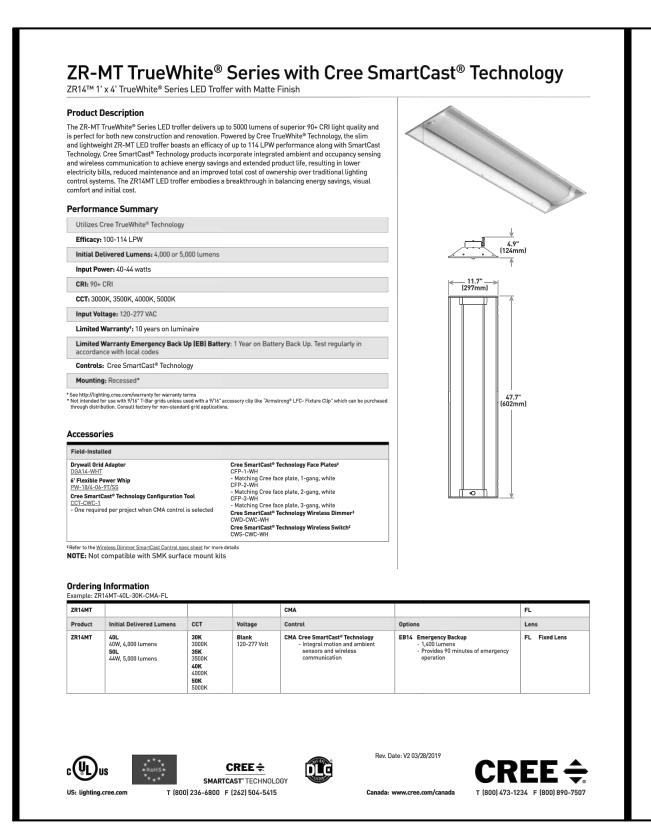


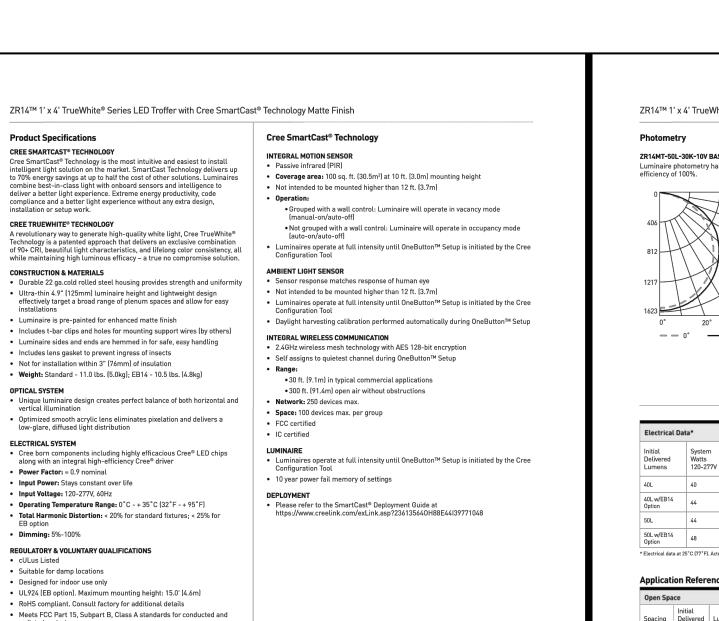


1044 North 115th Street, Suite 300 CASEY'S GENERAL STORE 10/18/2023 MANUFACTURER MO-150 & ARBORIDGE DR **EXTERIOR LIGHTING** LEE'S SUMMIT, MO CUT SHEETS 2023 - U4 - V.01 PROJECT NUMBER: E-700 07164.057

Beta LED Wall Pack

5 "K" - FC Up/Down Light





CREE 🕏

DLC qualified. Please refer to www.designlights.org/QPL for most

T (800) 236-6800 F (262) 504-5415

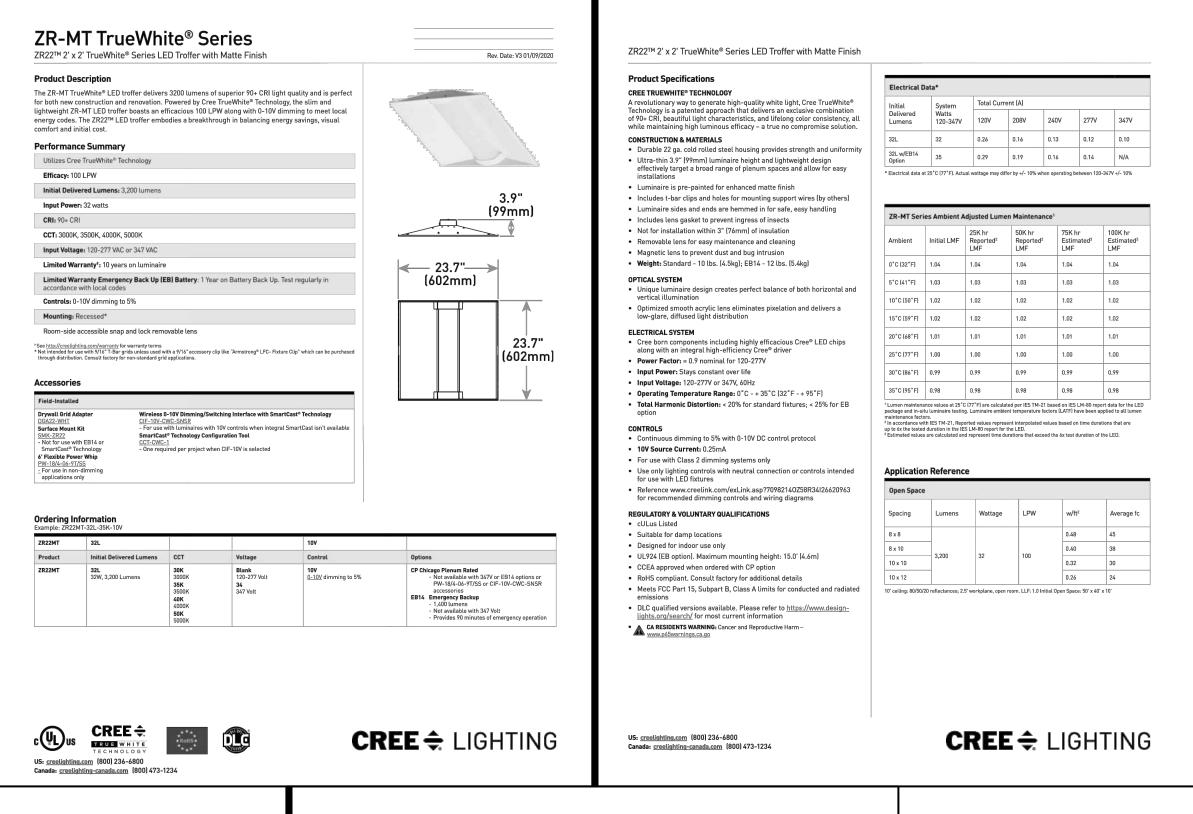
CA RESIDENTS WARNING: Cancer and Reproductive Harm-www.p65warnings.ca.gov

US: lighting.cree.com

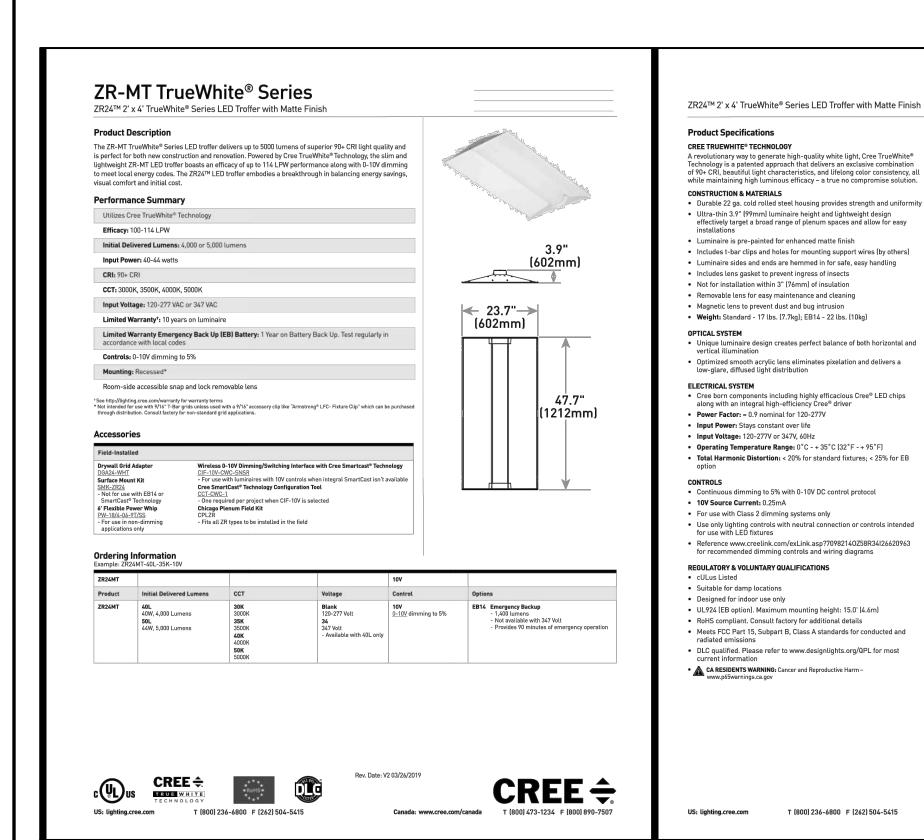
		JAIL Ita® C	ariac I ED	Froffe	r witl	h Cree	Smart	Cast® Te	echno	logy	Matte F	ınish					
ZR14™ 1	l' x 4' True	wille- 3	Delles LLD	110116									-				
Photom	etry																
7R14MT-5	01 -30K-10V	BASED ON	DTC REPORT	TEST	#: PL1:	3432-00	11Δ										
Luminaire	photometry		conducted in					79-08. IESI	NA LM	-79-08	B specifie	s the en	tire lumina	ire as the	source re:	sulting in a	luminaire
efficiency	or 100%.																
0	1	I				Utilizatio	on –		Ave	erage	Luminan	ce Table	(cd/m²)	Zonal	Lumen Su	immary	9.5
		1	DC.	nal Cav	10 Me	tnoa					_	ntal Angl	_	Zone	Lumens	% Lamp	
406			7 70 -	-	70	50	30	10	<u>_e</u>	L	0°	45°	90°	0-30	1,249	N/A	26.5%
	TX	$\mathbb{X}$	<b>↓</b> ⊢	-	119	119	119	119	LAng	45°	9,796	10,440	10,844	0-40	2,052 3,668	N/A N/A	43.6% 77.9%
812	$\prod \setminus $	V	50° 1	-	109	104	99	95	Vertical Angle	65°	8,736	10,133	10,566	0-90	4,708	N/A	100%
	14		2		79	90	83	77	>	75°	7,461	9,029	8,708	0-180	4,708	N/A	100%
1217	T	$^{\times}$	3	_	70	79	71	64		85°	5,229	5,662	4,618				
1,00	1		4		32	70	61	54	Refere	ence http	o://lighting.cr	ee.com/pro	ducts/indoor/t	roffers/zr-serie	es for detailed	d photometric d	ata
1623 0°	20	ı° \_	5 6	-	75 59	62 56	53	46									
_	— 0° ·	90°	7	-	54	51	42	36									
			8	1	50	46	38	32									
			9	] :	56	42	34	28									
			10	!	52	39	31	26									
						39 eflectance:		26									
								26									
															W		
Electrica	ol Data*		Effect						ZR-MT	ſ Serie	es Ambier	nt Adjust	ed Lumen				
Initial	System	" <u> </u>							ZR-MT		Initial	25 Pr	5K hr rojected²	50K hr Projected	75M		100K hr Calculated <sup>3</sup>
		"	Effect	ive Floor		eflectance:						25 Pr	5K hr	50K hr	75H	culated3	
Initial Delivered	Systen Watts	"	al Current (A)	ive Floor	Cavity Re	oflectance:	20%			nt	Initial	25 Pr	5K hr rojected² MF	50K hr Projected	75M	culated <sup>3</sup> F	Calculated <sup>3</sup>
Initial Delivered Lumens 40L 40L w/EB1	Systen Watts 120-27	77V 120	al Current (A) 208 2 0.15	BV	Cavity Re	v	20%		Ambier	nt 'F)	Initial LMF	25 Pr Li	5K hr rojected² MF	50K hr Projected LMF	75kd² Cal	culated <sup>3</sup> F	Calculated <sup>3</sup> LMF
Initial Delivered Lumens 40L	Systen Watts 120-27	77V 120	al Current (A)  OV 208  2 0.15  6 0.21	BV	240°	v V	277V 0.15		Ambier 0°C (32°	ht 'Fl	Initial LMF	25 Pr Li	5K hr rojected <sup>2</sup> MF 04	50K hr Projected LMF	75k Cal LM	culated <sup>3</sup> F	Calculated <sup>3</sup> LMF
Initial Delivered Lumens  40L  40L w/EB1 Option  50L	Systen Watts 120-27 40 44 44	0.3 0.3	Effect  al Current (A)  V 208  2 0.15  6 0.21	W	240° 0.17 0.19	offectance:	277V 0.15 0.17		Ambier 0°C (32° 5°C (41°	nt 'F) 'F)	Initial LMF 1.04	25 Pr Lit 1.0 1.0	5K hr rojected <sup>2</sup> MF 04	50K hr Projected LMF 1.04	75M Cal LM 1.04	culated <sup>3</sup> F 4 3	Calculated <sup>3</sup> LMF 1.04
Initial Delivered Lumens  40L  40L w/EB1 Option  50L  50L w/EB1 Option	System Watts 120-27 40 44 44 44 44 48	0.3 0.3 0.3 0.3	Effect  al Current (A)  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080	BV	240\\ 0.17\\ 0.19\\ 0.20	V	277V 0.15 0.17 0.16 0.18		Ambier 0°C (32° 5°C (41° 10°C (50	nt 'F) 'F) 'F) '°F)	Initial LMF  1.04  1.03  1.02	25 Pr Lt 10 10 10 10 10 10 10 10 10 10 10 10 10	5K hr rojected <sup>2</sup> MF 04 03 02	50K hr Projected LMF 1.04 1.03 1.02	75k Cat LM 1.04 1.03 1.02	culated <sup>3</sup> F 4 3	Calculated <sup>3</sup> LMF  1.04  1.03  1.02  1.02
Initial Delivered Lumens  40L  40L w/EB1 Option  50L  50L w/EB1 Option	System Watts 120-27 40 44 44 44 44 48	0.3 0.3 0.3 0.3	Effect  al Current (A)  V 208  2 0.15  6 0.21	BV	240\\ 0.17\\ 0.19\\ 0.20	V	277V 0.15 0.17 0.16 0.18		Ambier 0°C (32° 5°C (41° 10°C (50 15°C (59 20°C (68	nt 'F) 'F) '°F) '°F)	Initial LMF  1.04  1.03  1.02  1.02  1.01	25 Pr LH 10 10 10 10 10 10 10 10 10 10 10 10 10	5K hr rojected² MF 04 03 02 02	50K hr Projected LMF 1.04 1.03 1.02 1.02	75M Cal LM 1.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	culated <sup>3</sup> F 4 3 2	Calculated <sup>3</sup> LMF  1.04  1.03  1.02  1.01
Initial Delivered Lumens 40L 40L w/EB1. Option 50L 50Lw/EB1. Option Electrical da	System Watts 120-27 40 44 44 44 48 ta at 25°C (77°F)	0.3 0.3 0.3 0.3 0.3 0.3	Effect  al Current (A)  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080	BV	240\\ 0.17\\ 0.19\\ 0.20	V	277V 0.15 0.17 0.16 0.18		Ambier 0°C (32° 5°C (41° 10°C (50	nt 'F) 'F) '°F) '°F)	Initial LMF  1.04  1.03  1.02	25 Pr LH 10 10 10 10 10 10 10 10 10 10 10 10 10	5K hr rojected <sup>2</sup> MF 04 03 02	50K hr Projected LMF 1.04 1.03 1.02	75k Cat LM 1.04 1.03 1.02	culated <sup>3</sup> F 4 3 2	Calculated <sup>3</sup> LMF  1.04  1.03  1.02  1.02
Initial Delivered Lumens  40L  40L w/EB1 Option  50L  50L w/EB1 Option Electrical da	System Watts 120-27 40 44 44 44 48 ta at 25°C [77°F]	0.3 0.3 0.3 0.3 0.3 0.3	Effect  al Current (A)  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080	BV	240\\ 0.17\\ 0.19\\ 0.20	V	277V 0.15 0.17 0.16 0.18		Ambier 0°C (32° 5°C (41° 10°C (50 15°C (59 20°C (68	nt 'F) 'F) '°F) '°F) '°F)	Initial LMF  1.04  1.03  1.02  1.02  1.01	25 Pr LH 10 10 10 10 10 10 10 10 10 10 10 10 10	5K hr rojected² MF 04 03 02 02 02	50K hr Projected LMF 1.04 1.03 1.02 1.02	75M Cal LM 1.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	culated <sup>3</sup> F 4 3 2 1	Calculated <sup>3</sup> LMF  1.04  1.03  1.02  1.01
Initial Delivered Lumens 40L 40L w/EB1. Option 50L 50Lw/EB1. Option Electrical da	System Watts 120-27 40 44 44 44 48 ta at 25°C [77°F]	0.3 0.3 0.3 0.3 0.3 0.3	Effect  al Current (A)  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080	VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	240\\ 0.17\\ 0.19\\ 0.20\\ 0.20\\ 0.19	V V	277V 0.15 0.17 0.16 0.18	+/-10%	Ambier 0°C (32° 5°C (41° 10°C (50 15°C (59 20°C (68	nt 'F) 'F) '*F) '*F) '*F) '*F)	1.04 1.03 1.02 1.02 1.01	25 Pr Lt 10 10 10 10 10 10 10 10 10 10 10 10 10	5K hr rojected² MF 004 003 002 002 001	50K hr Projected LMF 1.04 1.03 1.02 1.02 1.01	75k Cal LM 1.04 1.03 1.02 1.02 1.01	culated <sup>3</sup> F 4 3 2 2 1 1 7	Calculated <sup>3</sup> LMF  1.04  1.03  1.02  1.02  1.01  1.00
Initial Delivered Lumens  40L  40L w/EB1 Option  50L  50L w/EB1 Option Electrical da	System Watts 120-27 40 44 44 44 44 45 46 48 ta at 25°C (77°F)	0.3 0.3 0.3 0.3 0.3 0.3	Effect  al Current (A)  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080  2080	BV	240\\ 0.17\\ 0.19\\ 0.20	V V	277V 0.15 0.17 0.16 0.18	+/- 10% 2 2 3 5 6 6 6 11 11 12 12 12 12 12 12 12 12 12 12 12	Ambier 0°C (32° 5°C (41° 10°C (50 15°C (59 20°C (68 25°C (77 30°C (86 35°C (95	rFl rFl rFl rFl rFl rFFl rFFl rFFl rFFl	Initial LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98	25 Pr Lt 1 1 1 1 1 1 1 1	SK hr rojected² MF  04  03  02  02  01  00  99  98  loculated per TI Alfel have head.	50K hr Projected LMF 1.04 1.03 1.02 1.02 1.02 1.01 1.00 0.99 0.98	1.04 1.04 1.05 1.05 1.06 1.06 1.07 1.07 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	Culated <sup>3</sup> F 4 3 2 2 1 1 7 3 3 and in-situ lumining enance factors.	Calculated <sup>3</sup> LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  haire testing.
Initial Delivered Lumens  40L  40L w/E81 Option  50L  50L w/E81 Option  Electrical da  Applicat Open Spa	System   Watts   120-27   40   44   44   44   44   48   48   47   47	120 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.	al Current (A)  208  2 0.11  6 0.21  6 0.22  e may differ by +/-	VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	240\\ 0.17\\ 0.19\\ 0.20\\ 0.20\\ 0.19	V V	277V 0.15 0.17 0.16 0.18	*/- 10% 2	Ambier 0°C (32° 0°C (41° 10°C (50° 115°C (59° 220°C (68° 25°C (77° 130°C (86° 10°C (95° 10°C (95°) (95° 10°C (95°) (95° 10°C (95°) (95° 10°C (95°) (95°) (95° 10°C (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°) (95°)	nt  F]  F]  F)  F)  F)  F)  F)  F)  F)  F)	Initial LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  ce values at it temperatur its the IESNA TSM-XSI the IESNA	25 Pr Lt 1 1 1 1 1 1 1 1	SK hr rojected² MF  04  03  02  02  01  00  99  98  loculated per TI Alfel have head.	50K hr Projected LMF 1.04 1.03 1.02 1.02 1.02 1.01 1.00 0.99 0.98	1.04 1.04 1.05 1.05 1.06 1.06 1.07 1.07 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	Culated <sup>3</sup> F 4 3 2 2 1 1 7 3 3 and in-situ lumining enance factors.	Calculated <sup>3</sup> LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98
Initial Delivered Lumens  40L  40L  40L  40L  40L  40L  40L  40	System Watts 120-27 40 44 44 44 48 ta at 25°C (77°F) sion Reference Initial Delivered Lumens	0.3 0.3 0.3 0.3 0.4 Catual wattag	at Current (A)  2 0.15  6 0.21  6 0.22  9 0.25  Wattage	We Floor vive Floor vi	240\\ 0.17 \\ 0.19 \\ 0.20 \\ v \/	V V	277V 0.15 0.17 0.16 0.18 Average	+/- 10% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Ambier 0°C (32° 10°C (41° 10°C (50° 115°C (59° 20°C (68° 25°C (77° 30°C (86° 11 accord; the accord; th	nt  F]	Initial LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  1.00  0.99  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	25 Pr L1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	SK hr rojected² MF  04  03  02  01  00  09  99  98  sticulated per TI AIF have beet ceted Values re total test durat lalated Values R	50K hr Projecter LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  4-21 based on applied to all present interpresent in	75H Cal LM 1.04 1.05 1.06 1.06 1.07 1.07 1.07 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	culated <sup>3</sup> F 4 3 2 2 1 1 7 3 and in-situ luminenance factors assed on time du ouder testing (it under	Calculated³ LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  naire testing.  urations that are DUT) i.e. the
Initial Delivered Lumens  40L  40L w/EB1- Option  50L  Applicat  Open Sp.  Spacing  8 x 8	System Watts 120-27 40 44 44 44 48 ta at 25°C (77°F) sion Reference Initial Delivered Lumens 40L	0.3 0.3 0.3 0.3 0.4 Actual wattag	at Current (A)  2 0.15 6 0.21 6 0.22 9 0.25 Wattage	LPW	240\\ 0.17\\ 0.19\\ 0.20\\ 0.06\\ \ 0.6\\	V V V V V V V V V V V V V V V V V V V	277V 0.15 0.17 0.16 0.18 Average 57	+/- 10% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Ambier 0°C (32° 10°C (41° 10°C (50° 115°C (59° 20°C (68° 25°C (77° 30°C (86° 11 accord; the accord; th	nt  F]	Initial LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  1.00  0.99  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	25 Pr L1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	SK hr rojected² MF  04  03  02  01  00  09  99  98  sticulated per TI AIF have beet ceted Values re total test durat lalated Values R	50K hr Projecter LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  4-21 based on applied to all present interpresent in	1.04 1.05 1.06 1.06 1.07 1.07 1.07 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	culated <sup>3</sup> F 4 3 2 2 1 1 7 3 and in-situ luminenance factors rasaed on time of under testing (ii)	Calculated³ LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  naire testing.  urations that are DUT) i.e. the
Initial Delivered Lumens  40L  40L w/E81 Option  50L  50L w/E81 Option  Electrical da  Applicat Open Spa	System Watts 120-27 40 44 44 44 44 45 46 48 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40	0.3 0.3 0.3 0.3 0.4 Actual wattag	at Current (A)  2 0.15 6 0.21 6 0.22 9 0.22 Wattage  40 44	IVV  P  1  1  3  LPW  100  114	240\\ 0.17 \\ 0.19 \\ 0.20 \\ 0.19 \\ 0.20 \\ 0.6 \\ 0.7	V V V	277V 0.15 0.17 0.16 0.18 Average 57 71	+/- 10% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Ambier 0°C (32° 10°C (41° 10°C (50° 115°C (59° 20°C (68° 25°C (77° 30°C (86° 11 accord; the accord; th	nt  F]	Initial LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  1.00  0.99  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	25 Pr L1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	SK hr rojected² MF  04  03  02  01  00  09  99  98  sticulated per TI AIF have beet ceted Values re total test durat lalated Values R	50K hr Projecter LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  4-21 based on applied to all present interpresent in	1.04 1.05 1.06 1.06 1.07 1.07 1.07 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	culated <sup>3</sup> F 4 3 2 2 1 1 7 3 and in-situ luminenance factors assed on time du ouder testing (it under	Calculated³ LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  naire testing.  urations that are DUT) i.e. the
Initial Delivered Lumens  40L  40L w/EB1- Option  50L  Applicat  Open Sp.  Spacing  8 x 8  8 x 10	System Watts 120-27 40 4 44 44 44 48 ta et 25°C (77°F) sion Refer 6 ace Initial Delivered Lumens 40L 50L 40L	0.3 0.3 0.3 0.3 0.3 . Actual wattagence Lumens 4,000 4,000	at Current (A)  2 0.15 6 0.21 6 0.29 9 0.22 Wattage  40 44 40	LPW 100 114 100 100 100 100 100 100 100 100	240\\ 0.17	V V V V V V V V V V V V V V V V V V V	277V 0.15 0.17 0.16 0.18 Average 57 71 47	+/- 10% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Ambier 0°C (32° 10°C (41° 10°C (50° 115°C (59° 20°C (68° 25°C (77° 30°C (86° 11 accord; the accord; th	nt  F]	Initial LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  1.00  0.99  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	25 Pr L1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	SK hr rojected² MF  04  03  02  01  00  09  99  98  sticulated per TI AIF have beet ceted Values re total test durat lalated Values R	50K hr Projecter LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  4-21 based on applied to all present interpresent in	1.04 1.05 1.06 1.06 1.07 1.07 1.07 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	culated <sup>3</sup> F 4 3 2 2 1 1 7 3 and in-situ luminenance factors assed on time du ouder testing (it under	Calculated³ LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  naire testing.  urations that are DUT) i.e. the
Initial Delivered Lumens  40L  40L w/EB1- Option  50L  Applicat  Open Sp.  Spacing  8 x 8	System Watts 120-27 40 4 44 44 44 48 ta at 25°C (77°F) see Initial Delivered Lumens 40L 50L 40L	0.3 0.3 0.3 0.3 0.3 0.4 0.4 0.0 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	at Current (A)  2 0.15  2 0.15  6 0.21  6 0.21  9 0.22  white by +/	LPW 100 114 100 114	240\\ 0.17 \\ 0.19 \\ 0.20 \\ 0.20 \\ 0.20 \\ 0.20 \\ 0.20 \\ 0.30 \\ 0.40 \\ 0.50 \\ 0.50 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\ 0.60 \\	V V V V V V V V V V V V V V V V V V V	277V 0.15 0.17 0.16 0.18 0.18 Average 57 71 47 59	+/- 10% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Ambier 0°C (32° 10°C (41° 10°C (50° 115°C (59° 20°C (68° 25°C (77° 30°C (86° 11 accord; the accord; th	nt  F]	Initial LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  1.00  0.99  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	25 Pr L1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	SK hr rojected² MF  04  03  02  01  00  09  99  98  sticulated per TI AIF have beet ceted Values re total test durat lalated Values R	50K hr Projecter LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  4-21 based on applied to all present interpresent in	1.04 1.05 1.06 1.06 1.07 1.07 1.07 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	culated <sup>3</sup> F 4 3 2 2 1 1 7 3 and in-situ luminenance factors assed on time du ouder testing (it under	Calculated³ LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  naire testing.  urations that are DUT) i.e. the
Initial Delivered Lumens  40L  40L w/EB1- Option  50L  Applicat  Open Sp.  Spacing  8 x 8  8 x 10	System Watts 120-27 40 4 44 44 48 ta at 25°C (77°F) soc Initial Delivered Lumens 40L 50L 40L 40L	0.3 0.3 0.3 0.3 0.3 0.4 0.0 0.3 0.0 0.3 0.3 0.3 0.3 0.0 0.3 0.3	at Current (A)  2 00.15  2 0.15  6 0.21  6 0.21  9 0.22  white by +/	PW LPW 100 114 100 114 100 100 114 100 100 100	2400 0.17 0.19 0.20 0.7  0.6 0.6 0.4	V V V V V V V V V V V V V V V V V V V	277V 0.15 0.17 0.16 0.18 0.18 0.19 47 71 47 59 38	+/- 10% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Ambier 0°C (32° 10°C (41° 10°C (50° 115°C (59° 20°C (68° 25°C (77° 30°C (86° 11 accord; the accord; th	nt  F]	Initial LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  1.00  0.99  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00  1.00	25 Pr L1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	SK hr rojected² MF  04  03  02  01  00  09  99  98  sticulated per TI AIF have beet ceted Values re total test durat lalated Values R	50K hr Projecter LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  4-21 based on applied to all present interpresent in	1.04 1.05 1.06 1.06 1.07 1.07 1.07 1.08 1.09 1.09 1.09 1.09 1.09 1.09 1.09 1.09	culated <sup>3</sup> F 4 3 2 2 1 1 7 3 and in-situ luminenance factors assed on time du ouder testing (it under	Calculated³ LMF  1.04  1.03  1.02  1.02  1.01  1.00  0.99  0.98  naire testing.  urations that are DUT) i.e. the

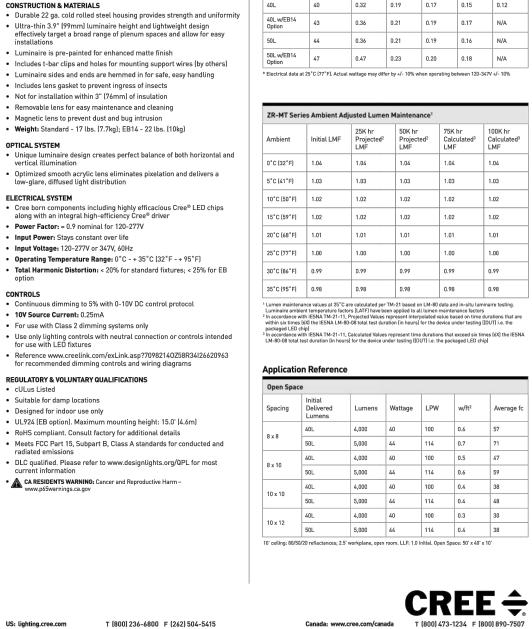
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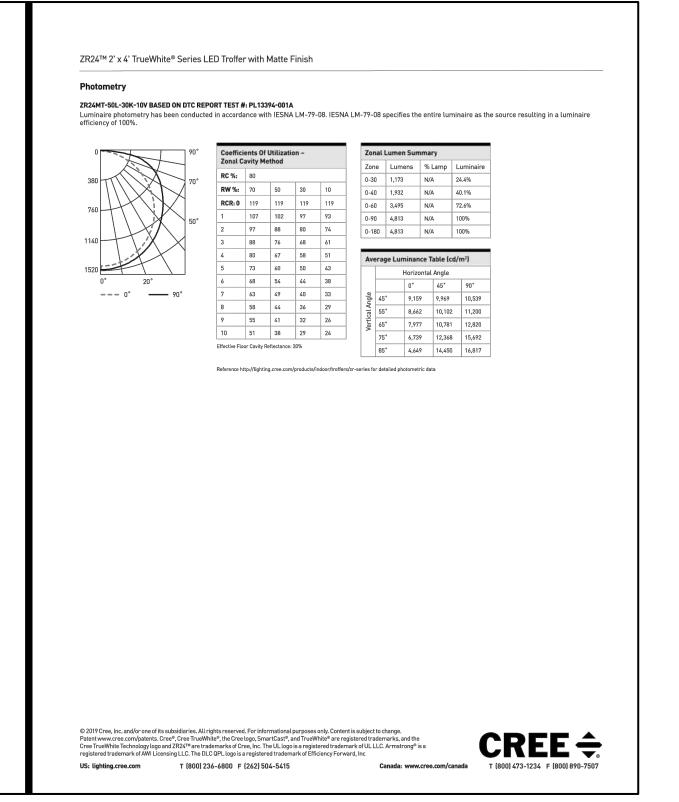


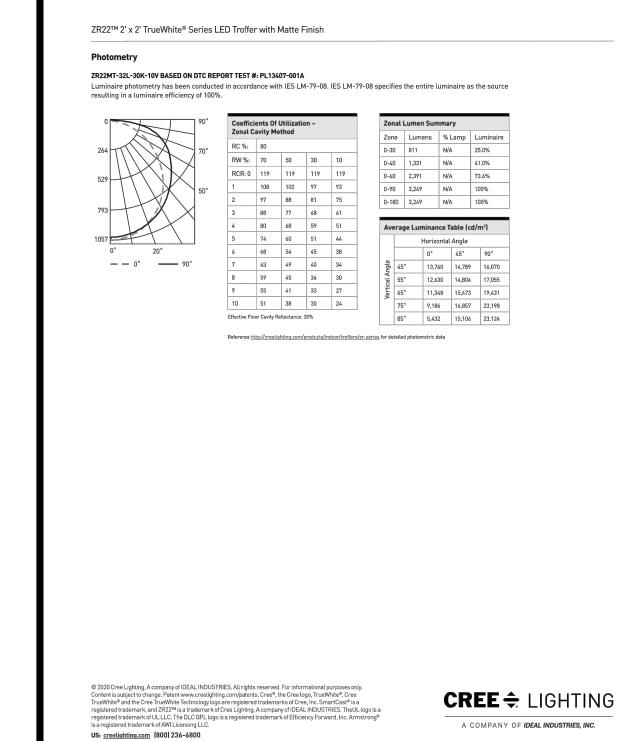




Electrical Data\*

| System | Watts | 120-347V | 120V | 208V | 240V | 277V | 347V |

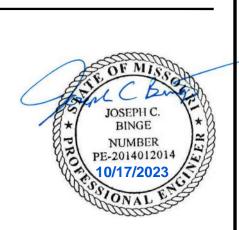




Beta CREE 2x2 LED Recessed Troffer

Canada: creelighting-canada.com (800) 473-1234

Not To Scale

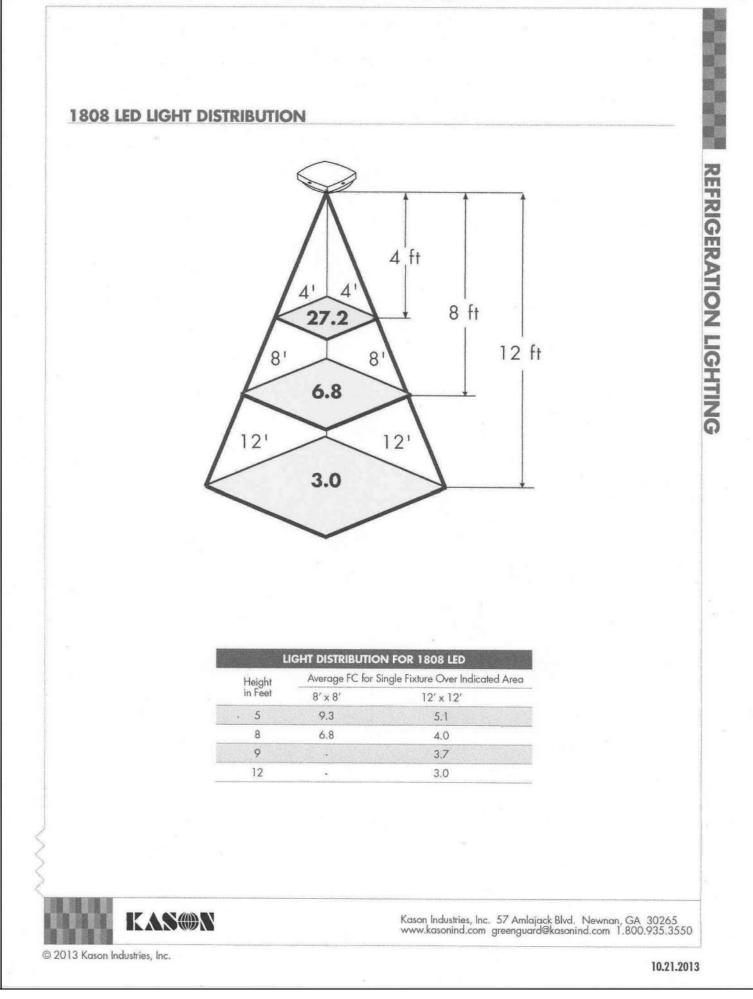


SCHEMMER 1044 North 115th Street, Suite 300 CASEY'S GENERAL STORE 10/18/2023 MANUFACTURER MO-150 & ARBORIDGE DR **INTERIOR LIGHTING** LEE'S SUMMIT, MO CUT SHEETS 2023 - U4 - V.01 PROJECT NUMBER: E-701 07164.057



✓ Not To Scale







# 2 Kason 1810LX LED Fixture





#### • Frame, faceplate, backplate and canopy are made

of thermoplastic 6 inch exit lettering legend, available in red or green

#### Mounting Surface mount

- Universal model includes (2) faceplates, (1) backplate and (1) canopy
- Canopy included for ceiling mount applications / end mount Backplate features universal knockouts for a standard 4 inch junction box used in wall mount applications

#### Finishes Finished in mist-white

#### Chevrons

Faceplate includes two field-selectable, snap-in/out chevron indicators

#### Power consumption chart

120/277VAC, 60Hz, 0.048A

## Accessories (Order as a separate item)

Wire Guard (heads in any position) wall mount WG10-L Replacement battery LCAC Replacement battery LCAC-2SQLEDR & LCAC-2SQLEDRID 022435-L

#### Exit legend LEDs

Red or green long-life Light Emitting Diodes (LED) illumination

## Remote Capacity/combination units

LCAC-2SQLEDR and LCAC-2SQLEDRID feature a 3.6V Ni-Cd battery with two 1W LED heads attached as well as 3W of remote capacity for ELF612D/LED or LCARDSQLED

#### Lamp head source

 3.6V-1W LED head • Lamp heads are fully adjustable to top or side with no

tools required Total 200 lumens, LED CCT 6000K

#### Self-Diagnostics

Combination models available with or without Improved Diagnostics

 Listed to UL 924 Standards UL listed for Damp location 50°F to 104°F (10°C to 40°C) Meets NFPA101 (Life Safety Code), NFPA 70 NEC

#### Warranty (subject to proper installation and maintenance)

Three-year full warranty Detailed warranty terms located on page 182 or online at: www.lightalarms.com

#### Photometric performance

Center-to-center spacing

#### Quick™ QLX & QLXN Series

Economical, thermoplastic LED exit signs



## UV stabilized thermoplastic body

 6 inch EXIT lettering legend, available in red or green Field selectable chevrons

#### Mounting Surface mount

 Canopy included for end or ceiling mount applications Universal J-Box mounting

#### Finishes Mist white

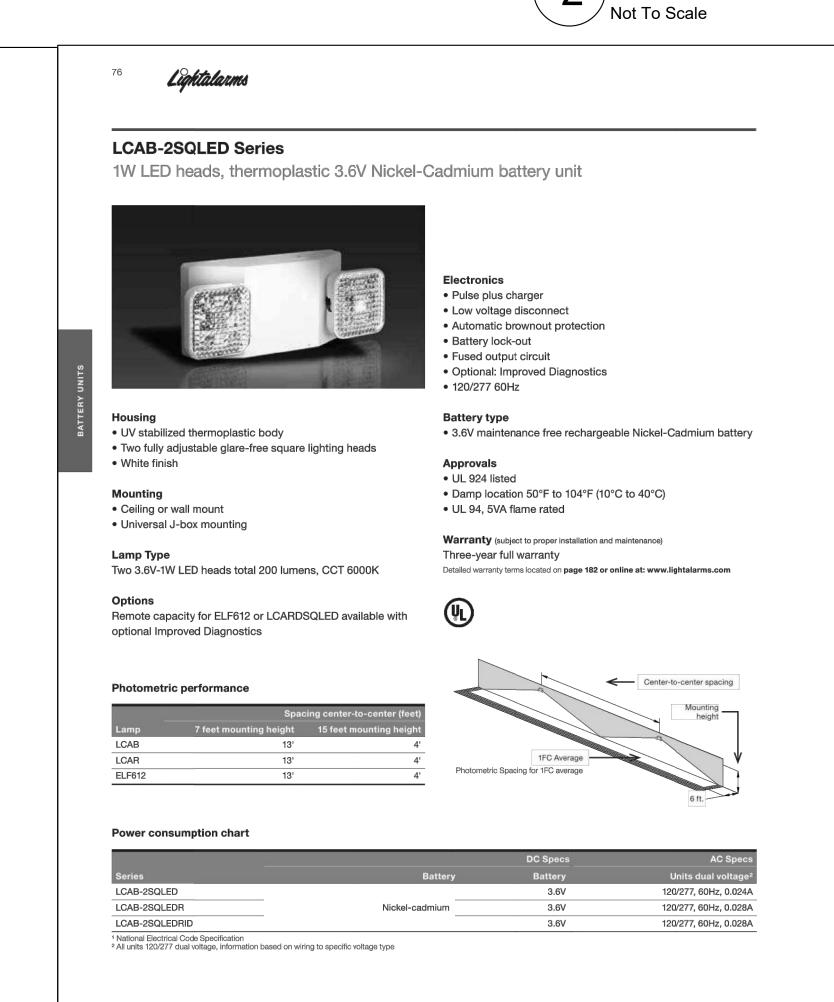
• 120/277 60Hz

#### UL 924 listed Damp location 50°F to 104°F (10°C to 40°C) • UL 94, 5VA flame rated

Warranty (subject to proper installation and maintenance) Three-year full warranty Detailed warranty terms located on page 182 or online at: www.lightalarms.com

## id UL

Optional Improved Diagnostics



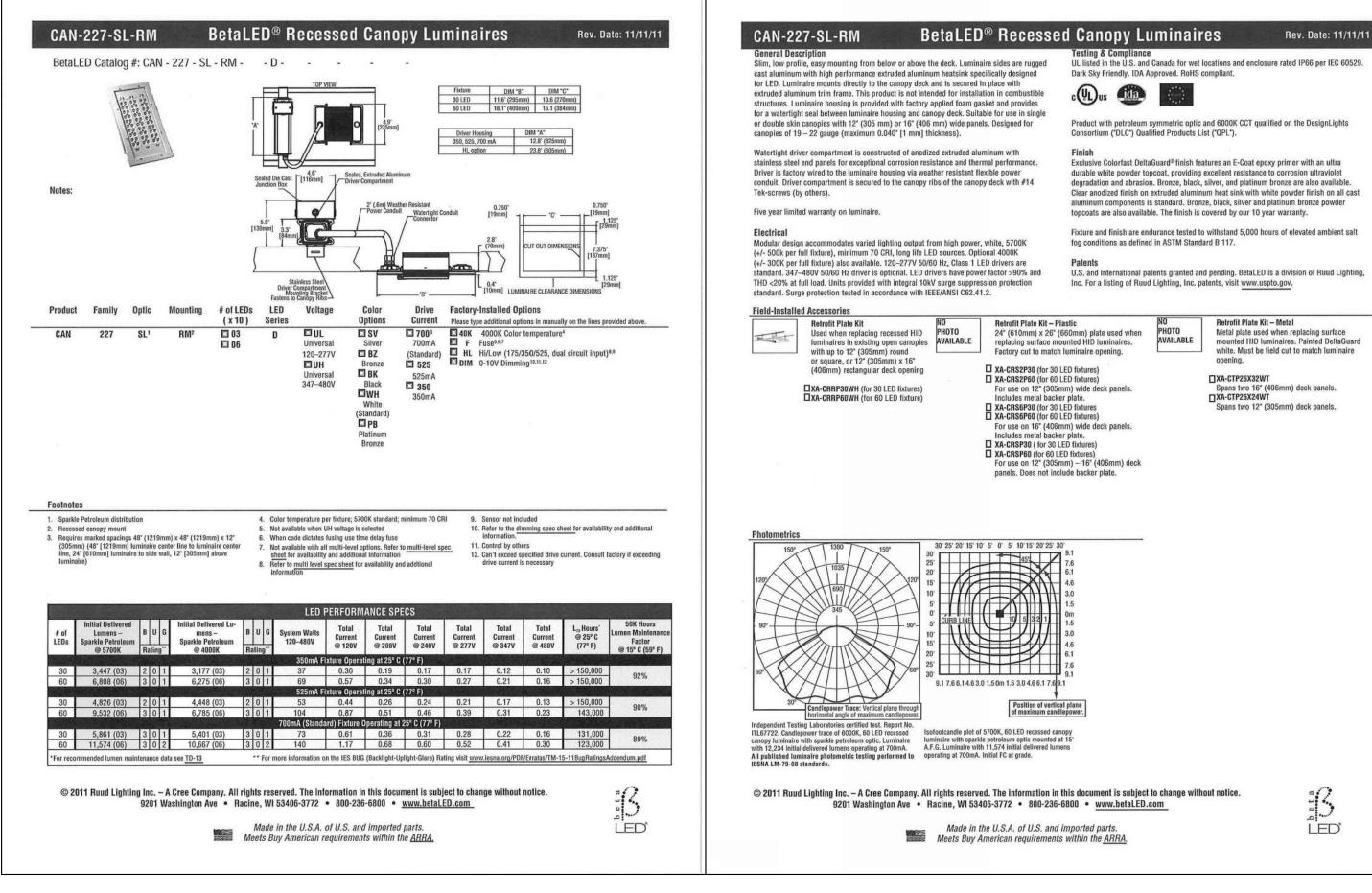


Ca	sey's	SCHEI  Design with Pu  1044 North 115th Street, Suite 300 Omaha, NE 68154	rpose. Build with Confidence.
CASEY'S GE 10-150 & ARB EE'S SUMMIT, I 023 - U4 - Y	MO	0 PUBLISHED: 10/18/20 REVISED ON:	DRAWING INFORMATION:  MANUFACTURER INTERIOR LIGHTING CUT SHEETS
NECT NUMBER: 17164.057 WN BY:	CHECKED BY:		E-702

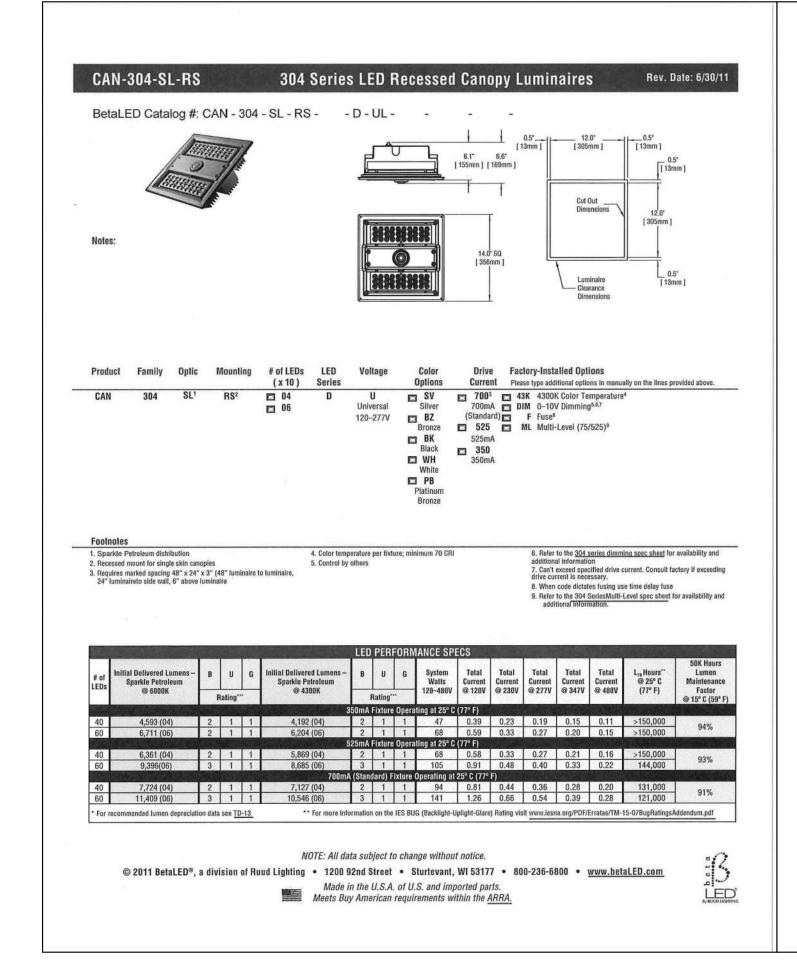
3 Exit Sign & Emergency Lighting

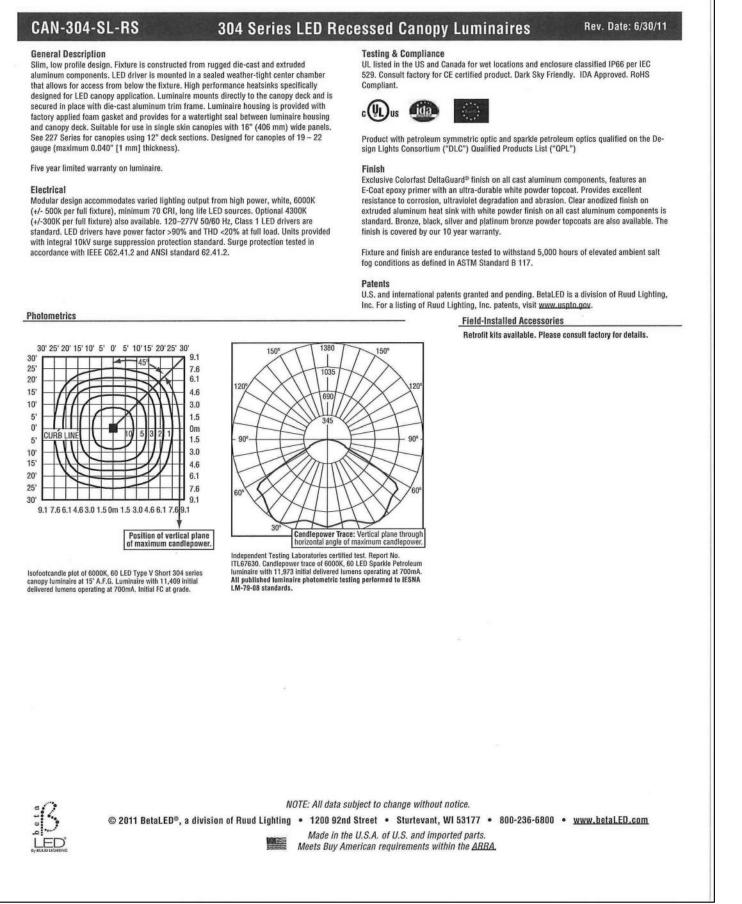
Not To Scale











Rev. Date: 11/11/11

Retrofit Plate Kit – Metal

□XA-CTP26X32WT

AVAILABLE

Metal plate used when replacing surface

Spans two 16" (406mm) deck panels.

XA-CTP26X24WT

Spans two 12\* (305mm) deck panels.

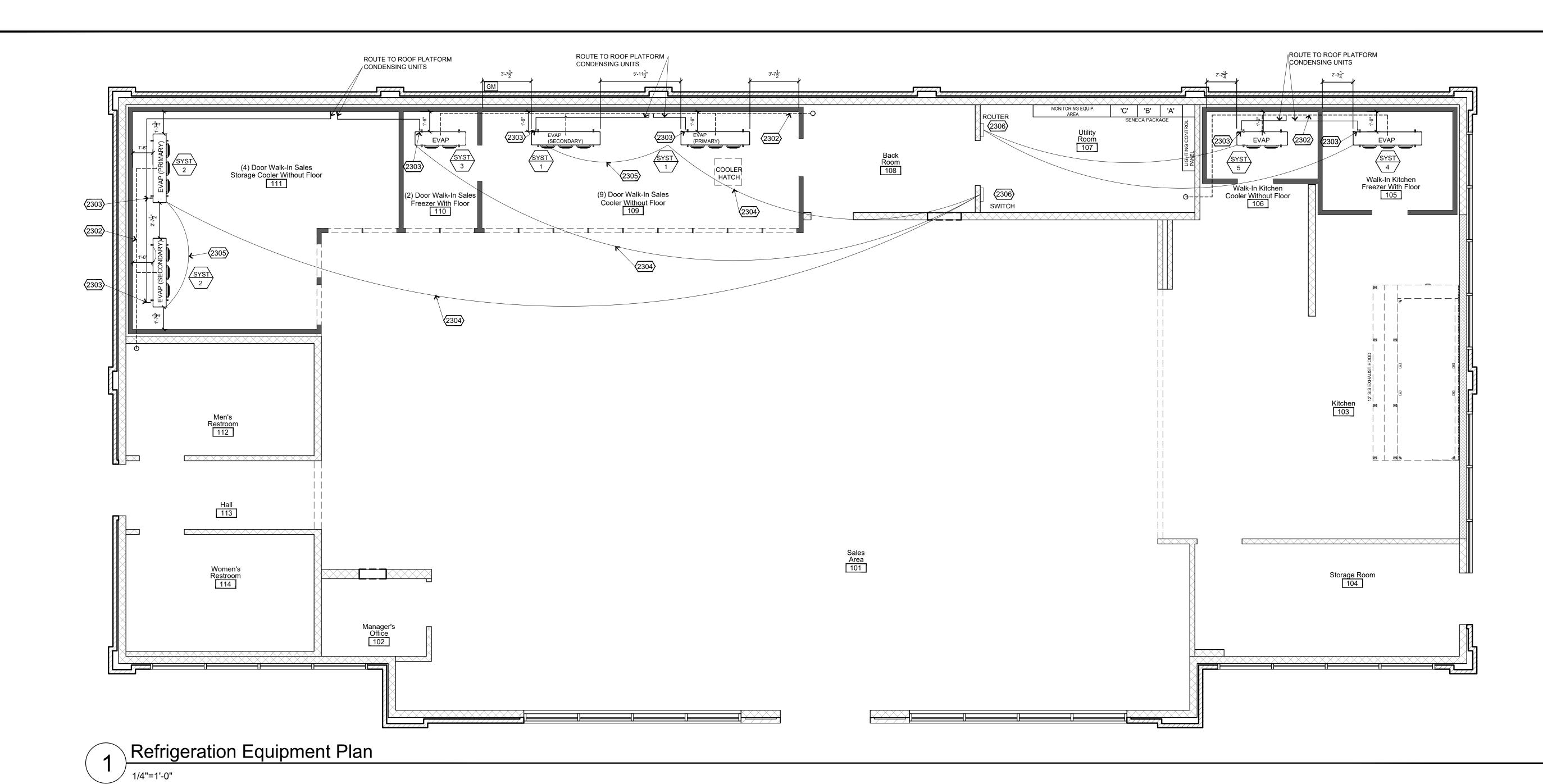
LED

mounted HID luminaires. Painted DeltaGuard white. Must be field cut to match luminaire



Cacava	SCHEN	1MER so. Build with Confidence.
Caseys	1044 North 115th Street, Suite 300 Omaha, NE 68154	COA Number CA0666
CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	PUBLISHED: 10/18/2023 REVISED ON:	MANUFACTUREF CANOPY LIGHTING CUT SHEETS
PROJECT NUMBER: 07164.057		F 703
DRAWN BY: CHECKED BY:		L-/UJ





### **General Construction Notes**

- 1 COOLER EVAPORATOR COILS TO BE 18" FROM BACK WALL & CENTERED IN COOLER. SALES FREEZER EVAPORATOR COILS TO BE 18" FROM BACK WALL & CENTERED IN FREEZER.
- ALL SUCTION LINE RISERS REQUIRE OIL TRAP BEFORE VERTICAL RISE.
   ALL PENETRATIONS THRU COOLER/FREEZERS BOXES TO BE SEALED INSIDE/OUTSIDE AND AIR TIGHT. INSIDE OF CONDUITS TO BE SEALED WITH POLYWATER FST-250 FOAM SEALANT.
- 4 ALL EVAPORATOR DRAINS TO HAVE TRAP OUTSIDE OF WALK-IN.
  5 ALL SUCTION LINES TO BE FULLY INSULATED FROM EVAPORATOR TO
- 6 DRAIN LINES IN WALLS TO BE INSULATED (NO TRAPS INSIDE INTERIOR WALLS)
- 7 ALL COPPER PIPING TO BE SECURED BY PROVIDED CLAMP OR HANGER
- 8 BRASS UNIONS TO BE WITH-IN 6" OF EVAPORATOR PAN
- 9 PIPING CURBS TO BE SEALED WATER TIGHT
   10 ALL PENETRATIONS THRU PIPING CURBS TO BE SEALED WATER TIGHT
   11 ALL CONDENSATION DRAIN LINES TO BE 7/8" ACR PIPE OR EQUAL
   12. TECHNICIANS SHOULD BE FAMILIAR WITH ALL INFORMATION INCLUDED
- THE HEATCRAFT QUICK RESPONSE CONTROLLER I&O MANUAL.

  13. All FREEZER/COOLER WALK-INS WITH SINGLE EVAPORATOR TO BE

IN THE HEATCRAFT BEACON II SMART CONTROLLER I&O MANUAL AND

- 14. WALK-INS EVAPORATOR DIMENSIONS ARE FOR ROUGH-IN PURPOSES.
  MIN. CHANGE AS FIELD CONDITIONS REQUIRE
- MIN. CHANGE AS FIELD CONDITIONS REQUIRE

  15. DO NOT OPERATE COOLER/FREEZER GLASS DOOR LIGHTS UNTIL THE
- REFRIGERATION SYSTEM HAS GONE THROUGH START-UP

  16. CONDENSING UNIT ARE TO BE PROPERLY SECURED TO CONDENSING
- 17. CONTROL WIRING (FIELD WIRING) TO BE SHIELDED CABLE. GROUND CABLE ONE END.

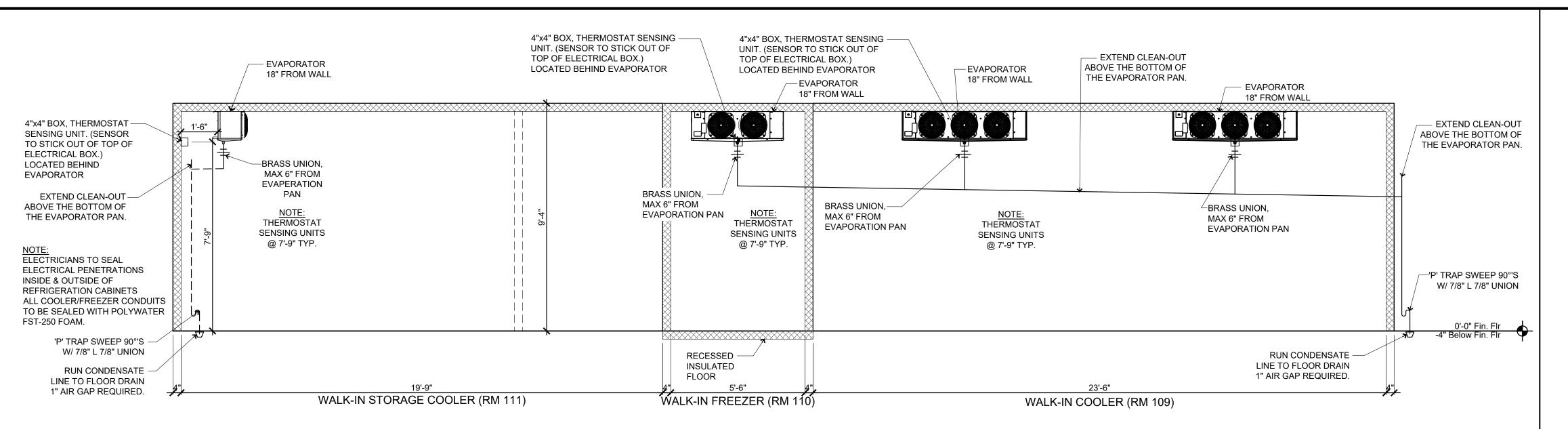
## **Keyed Construction Notes**

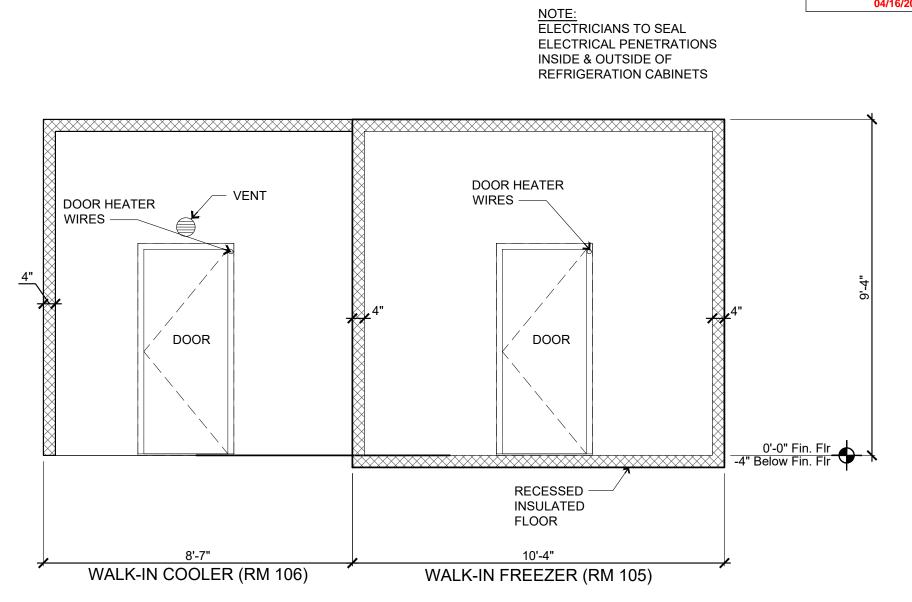
- CONDENSING UNITS LOCATED ON ROOF. COMPRESSOR RACK LOCATED UNDER ROOF TRUSSES.
- (2302) ROUTE CONDENSATE LINES TO FLOOR DRAINS, RE: PLUMBING DRAWINGS
- (2303) OIL TRAP ON ALL SUCTION RISERS
- RUN ELECTRICAL WIRING (SHIELDED CABLE) BETWEEN SWITH BOX AND EVAPORATORS. CAT 5 CABLE
- 2305 18-2 SHIELDED CABLE
- (2306) ROUTER & SWITCH BOX TO BE LOCATED IN UTILITY ROOM

										REFRIG	ERATIO	N EQUIPM	IENT SC	HEDULE	- CONDI	ENSING	UNITS- R	-449A (	7-2020 F	REGULA	TIONS)																	
														2022-U4-	V.02-Refrig	geration Sch	edule																					
Origional Design	n Date: May 12, 2022	By: Idm	Revisio	n Number: 0	Revision Date: N/A		By: N/A																															
ystem Number	Equipment Location	Box Temperatu	ıre Box Are	a Doors Box Lo	ad Equipment Type	Equipment Model Numbe	er Unit 5tyle Quanti	ty Fan Qty		Compre	essor Data		Refri	gerant	Oil C	Charge	<u> </u>		Line	5izes					····			Electrical	l Data (eacl	1)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Dimension	ıs	Weight
			I.D.	Glass +		Climate Control	Numbe	ar		Copeland	S5T	Capacity	Туре	Weight	Туре	Amount						***************************************	***			Conden	ing Unit		<del></del>	Evapora				tal				
			FT²	Pass BTUH			Cabinet of Unit	Each	I I	5 - Scroll (	Coil Temp			pounds		ounces	Lic Main	uid Branch	5u Main	ction Branch		on Riser Branch	Volts	Phase	Cycle	Comp RLA		Fans A/RLA To			<del></del>	ctric Defrost) FLA Watts	··· ΙΛΛΙΔ Ι	МОР	Width inches			Net Weight pounds
				i i i i i i i i i i i i i i i i i i i			-		1 11 11 11 11 11 11 11 11 11 11 11 11 1	i- neimeuc	Z LINE LOSS	100 PAIND.					iviaiii	Brancii	IVIAIII	Branch	Walti	Brancii				NLA	TLA TL	AJNLATIO	tairtA	ype	rtA ITOLAI	TLA Watts		<del> </del>	mules	munes	mules	pourus
5ystem # 1	5ales Cooler	34° F			Condensing Unit - (CU)	CCH0035MCACZ	C3 1	1	3.5 ZS	S26KAE - (S)	22°F	31,370	R-449A	20	POE		1/2	1/2	1 1/8	7/8	1 1/8	7/8	208-230	3	60	13.9	3.5						21	30	43 7/8	30 1/2	29 1/4	300
5ystem # 2	Storage Cooler	31° F			Condensing Unit - (CU)	CCH0030MCACZ	C3 1	1		521KAE - (S)	19°F	24,110	R-449A	20	POE		1/2	1/2	1 1/8	7/8	1 1/8	7/8	208-230	3	60	13.7	3.5						21	30		30 1/4		297
5ystem #3	5ales Freezer	-12° F			Condensing Unit - (CU)	CCH0035LCACZ	C2 1	2	3.5 ZF	F11K4E - (S)	-24°F	10,900	R-449A	14	POE		3/8		7/8		7/8		208-230	3	60	12.2	2						20	25	39 1/8	28 5/16	19 3/4	232
5ystem #4	Kitchen Freezer	0° F			Condensing Unit - (CU)	CCH0035LCACZ	C2 1	2	3.5 ZF	F11K4E - (S)	-12°F	13,610	R-449A	14	POE		3/8		7/8		7/8		208-230	3	60	12.2	2						20	25	39 1/8	28 5/16	19 3/4	232
5ystem # 5	Kitchen Cooler	36° F			Condensing Unit - (CU)	CCH0010MCACZ	C1 1	1	1.0 ZS	S09KAE - (S)	24°F	9,350	R-449A	14	POE		3/8		7/8		5/8		208-230	3	60	7.2	0.5						15	15	25 1/8	28 1/2	19 3/4	179
5ystem #1	5ales Cooler	34° F	204	9 24,40	) Evaporator	CEL0155A56AMA	2	3					R-449A										115	1	60			2.7	5.4	Air					61 1/2	15 3/8	17 11/16	67
	Storage Cooler	31° F	274	3+1 19,50		CEL0130B56EMA	2	3					R-449A										208-230	1	60			1.5	3	E	13.7 15.	.2 3150	† · · · · · ·		61 1/2			
	5ales Freezer	-12° F	48	2 9,700	······	CEL0100B56EEA	1	2					R-449A				<u> </u>						208-230	1	60			1.1	1.1	E	9.1	2100	<del>                                     </del>				17 11/16	
5ystem #4	Kitchen Freezer	0° F	71	11,00		CEL0155B56EEA	1	3			······································		R-449A		<b></b>								208-230	1	60			1.5	1.5	Е	13.7	3150						
5ystem #5	Kitchen Cooler	36° F	42	8,900	Evaporator	CEL0095A56AMA	1	2					R-449A										115	1	60			1.8	1.8	Air					45 1/2		17 11/16	

Casey's	Casey's	Casey's
	Y'S CONSTRUCTIC Blvd., P.O. Box 3001, Anke	ON DIVISION eny, la. 50021 515-965-6100
2021 "O6"- STYLE (FLAT / BRICK & S	-	REFRIGERATION EQUIPMENT PLAN
DRAWING INFORMATION:  CONSTRUCTION DIVISION  DRAWN BY:  JIM VILMAIN  CHECKED BY	:	QR-101

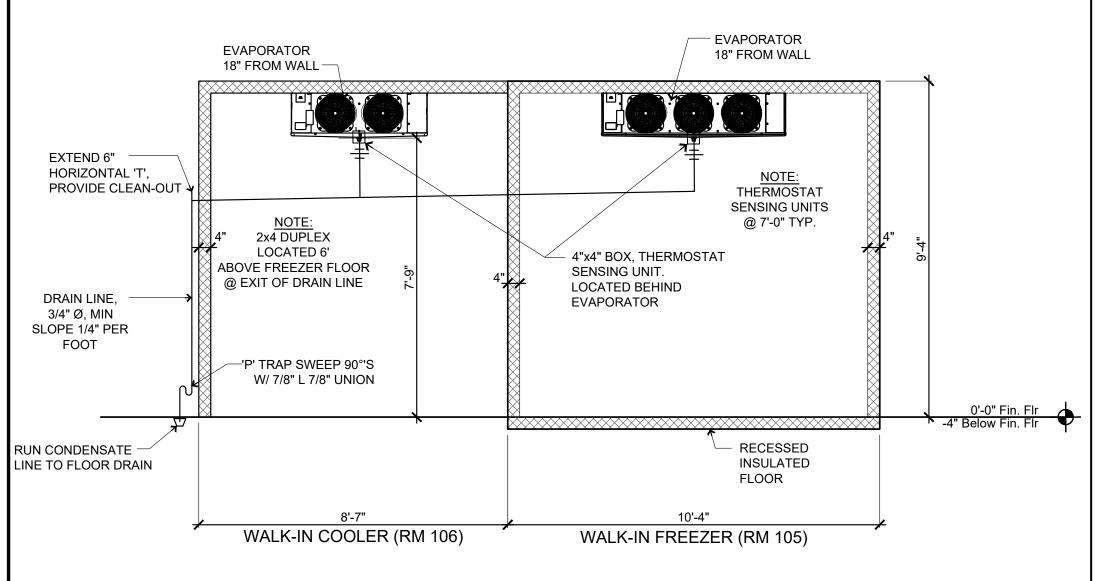
Lee's Summit, Mi 04/16/2024





1 INTERIOR ELEVATION @ WALK-IN SALES COOLER/FREEZER
QR-401 Scale: 3/8" = 1'-0"

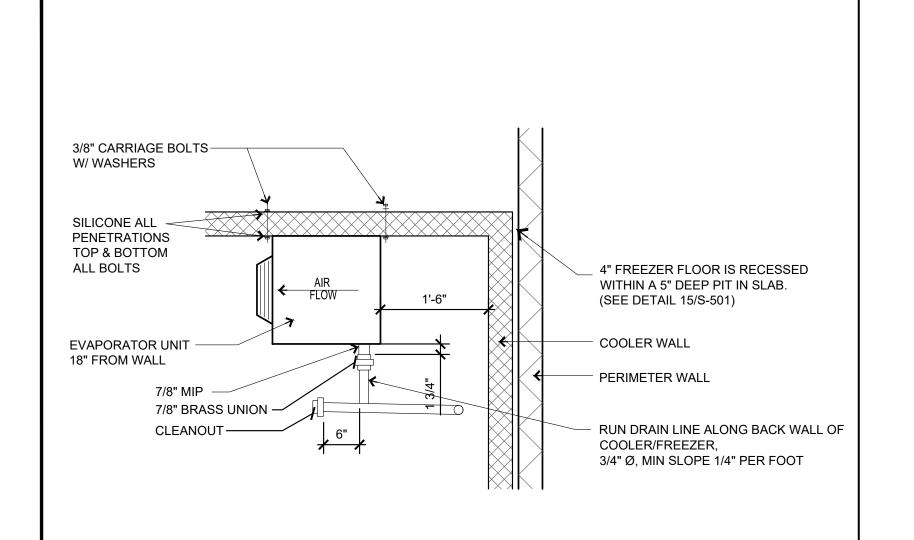
2 END ELEVATION KITCHEN & FREEZER
QR-401 Scale: 3/8" = 1'-0"

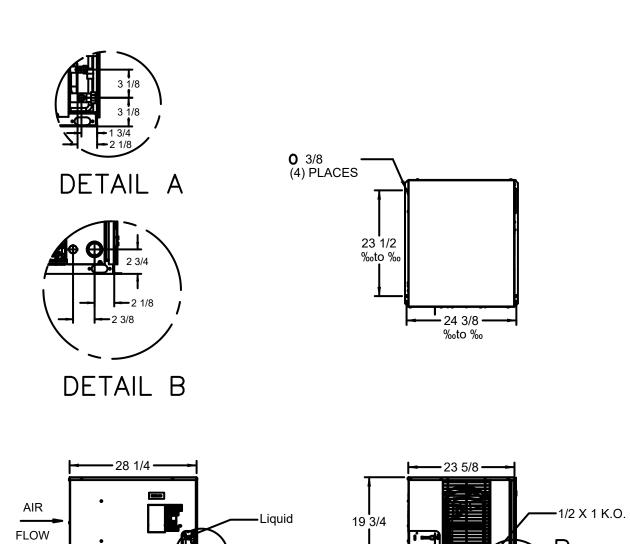


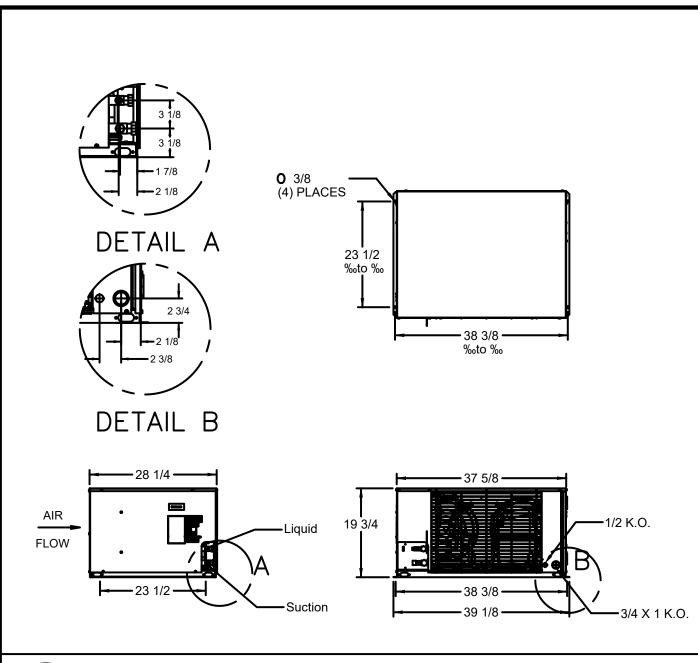
3 INTERIOR ELEVATION @ KITCHEN FREEZER/COOLER OR-401 Scale: 3/8" = 1'-0"

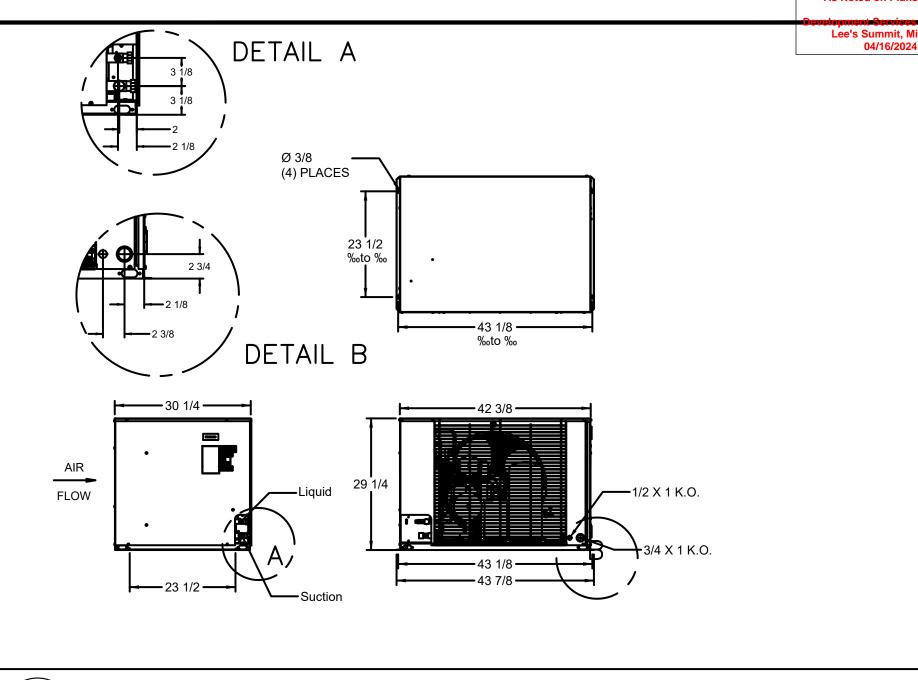
Casey's	Cas	sey's	Casey's
One Con	CASEY'S CONST venience Blvd., P.O. Box		
	STYLE STORE ICK & STONE)	PUBLISHED: 06/18/21 REVISED ON:	REFRIGERATION WALK-INS INTERIOR ELEVATIONS
DRAWING INFORMATION: CONSTRUCTION DI DRAWN BY: JIM VILMAIN	VISION CHECKED BY:		QR-401









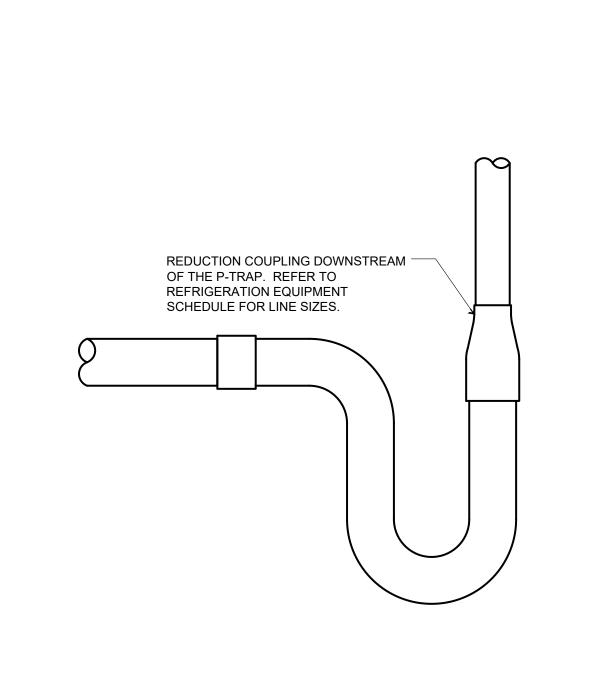


1 EVAPORATOR DETAIL
QR-501 Scale: 3/8" = 1'-0"

2 CU CABINET STYLE DIAGRAM-C1
QR-501 Scale: NTS

3 CU CABINET STYLE DIAGRAM-C2
QR-501 Scale: NTS

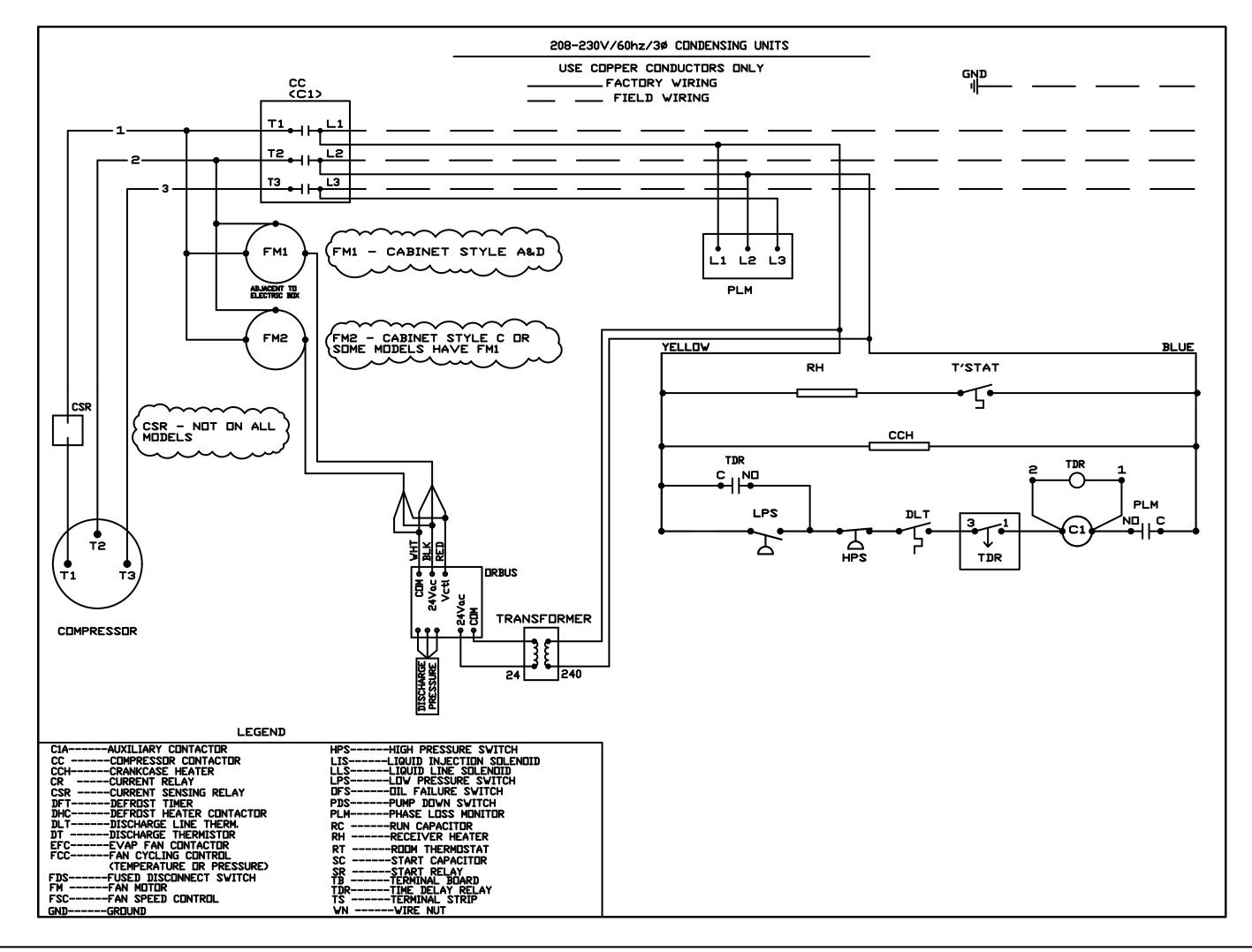
4 CU CABINET STYLE DIAGRAM-C3
QR-501 Scale: NTS

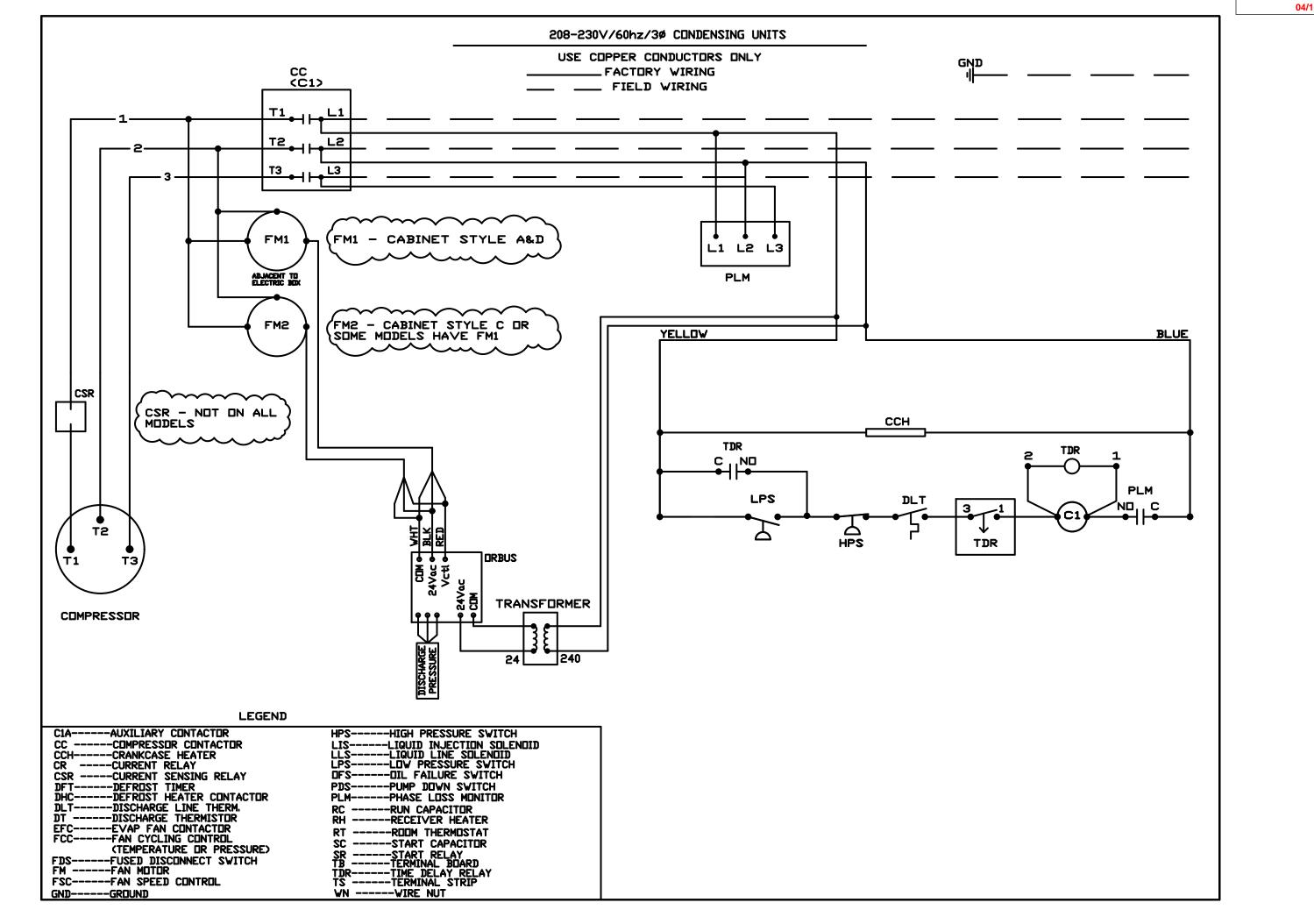


			PROGR	RAMMING		
PARAMETER	CODE	SALES COOLER	STORAGE COOLER	SALES FREEZER	KITCHEN FREEZER	KITCHEN COOLER
DEFROST TYPE	DEFTP	AIR	ELE	ELE	ELE	AIR
REFRIGERANT	REFTYP	449	449	449	449	449
BOX TEMP	ВОХТМР	34°	31°	-12°	0°	36°
SUPERHEAT	SUPRHT	12°	12°	12°	12°	12°
SMART DEFROST	SMTDEF	OFF	OFF	OFF	OFF	OFF
DEFROST START TIMES	DEF ST	6/12/6/12		LEAVE FACTORY T 8 DEFROST PERIODS	the St. State of the State of	6/12/6/12
DEFROST FAIL SAFE TIME	DEF SAF	60 MIN	60 MIN	LEAVE FACTORY FACTORY RES	LEAVE FACTORY SET TO 60 MIN	60 MIN
DEFROST END TEMP	DEFTMP	45°	55°	55°	55°	45°
ALARM HIGH TEMP	ALR HI	45°	45°	5°	10°	45°
ALARM LOW TEMP	ALR LO	30°	27°	-16°	-4°	30°
ALARM TIME	ALRMIN	45 MIN	45 MIN	45 MIN	45 MIN	45 MIN
TEMP UNITS	°F/°C	°F	°F	°F	°F	°F
CLOCK SETTING	12/24H	12H	12H	12H	12H	12H
TEST MODE	TEST	OFF	OFF	OFF	OFF	OFF
SERVICE MODE	SERVIC	OFF	OFF	OFF	OFF	OFF

5 P-TRAP - REDUCED RISER DETAIL
QR-501 Scale: NTS

Casey's Ca	sey's	Casey's
CASEY'S CONS One Convenience Blvd., P.O. Box		
2021 "O6"- STYLE STORE (FLAT / BRICK & STONE)	PUBLISHED: 06/18/21 REVISED ON:	REFRIGERATION DETAILS AND SCHEDULES
DRAWING INFORMATION:  CONSTRUCTION DIVISION  DRAWN BY:  CHECKED BY:		OR-501





1 CU WIRING DIAGRAM - HEATCRAFT - LOW AMBIENT
QR-601 Scale: NTS

2 CU WIRING DIAGRAM - HEATCRAFT - STANDARD QR-601 Scale: NTS

Case	y's ·	Casey's	Casey's
One C		ONSTRUCTION I D. Box 3001, Ankeny, I	<b>DIVISION</b> a. 50021 515-965-6100
	'- STYLE STOR RICK & STONE		REFRIGERATION WIRING SCHEMATIC
DRAWING INFORMATION:  CONSTRUCTION  DRAWN BY:	DIVISION CHECKED BY:		QR-601
JIM VILMAIN			1 ~



EXPANSION VALVE

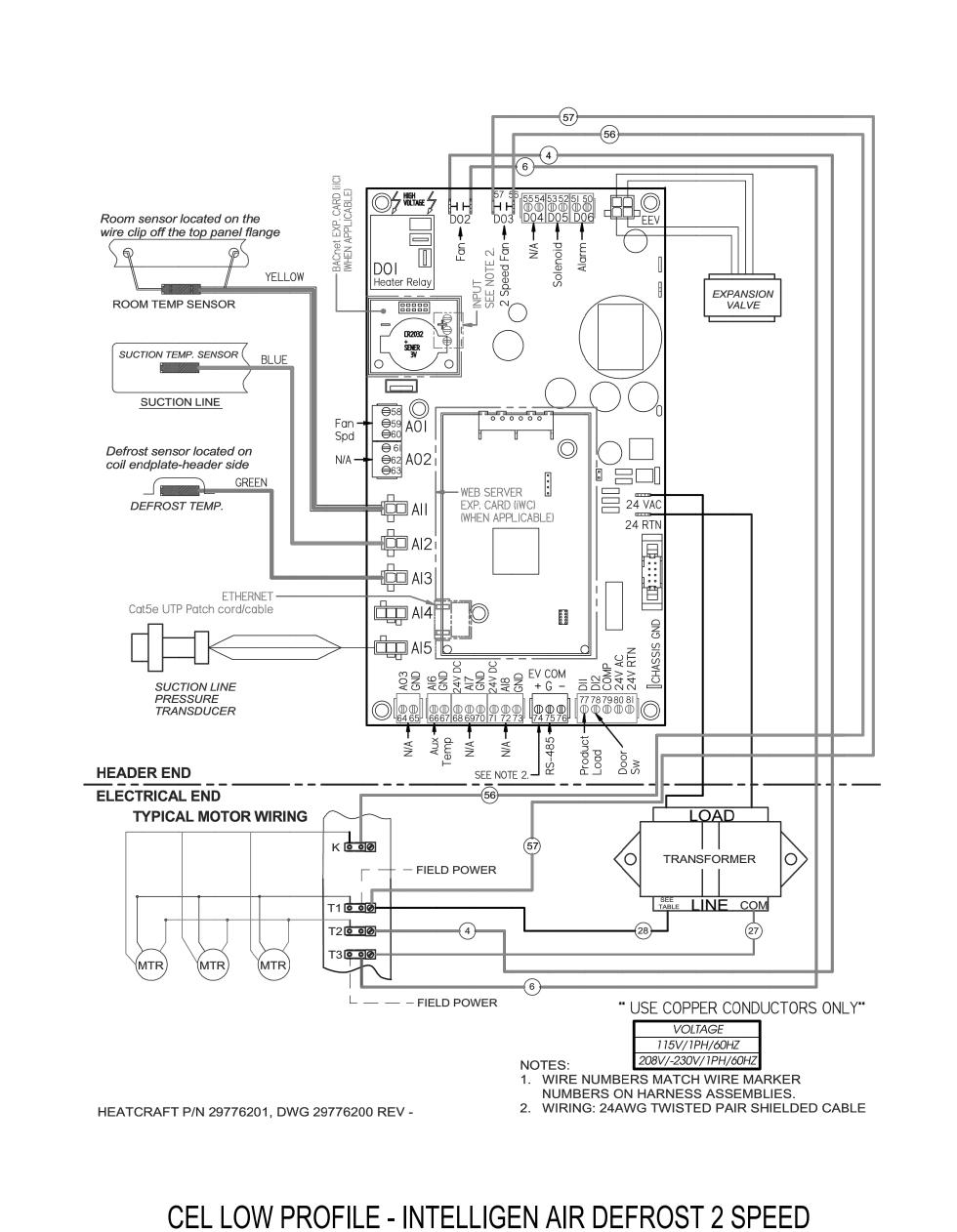
LOAD

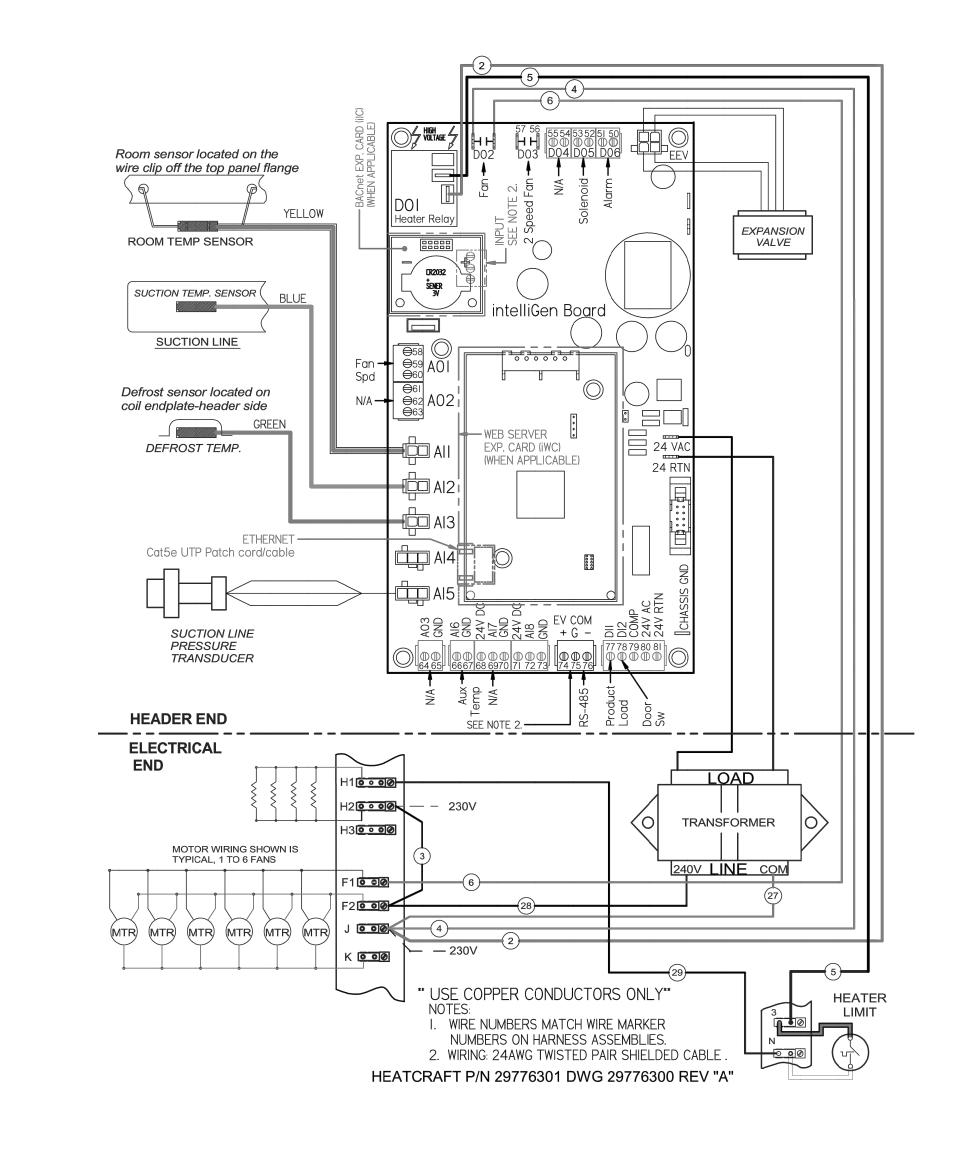
TRANSFORMER

240V LINE COM

**HEATER** LIMIT

Lee's Summit, M 04/16/2024





CEL LOW PROFILE - INTELLIGEN AIR DEFROST 1 SPEED

SALES FREEZER & KITCHEN FREEZER

H3**000** 

K 000-

- WEB SERVER

EXP. CARD (iWC)

(WHEN APPLICABLE)

USE COPPER CONDUCTORS ONLY\*\*

NUMBERS ON HARNESS ASSEMBLIES.

HEATCRAFT P/N 29776401 DWG 29776400 REV "A"

WIRING: 24AWG TWISTED PAIR SHIELDED CABLE

Room sensor located on the

ROOM TEMP SENSOR

SUCTION TEMP. SENSOR (

SUCTION LINE

Defrost sensor located on

coil endplate-header side

Cat5e UTP Patch cord/cable

SUCTION LINE

TRANSDUCER

MOTOR WIRING SHOWN IS

PRESSURE

**HEADER END** 

**ELECTRICAL** 

**END** 

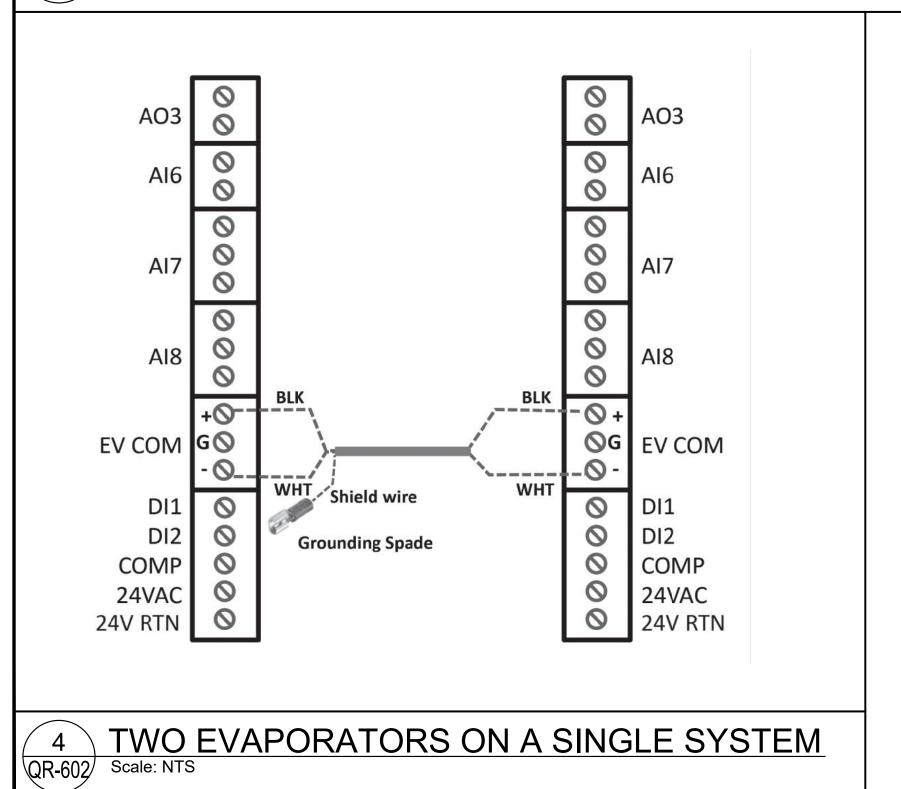
3 SALES
QR-602 Scale: NTS

DEFROST TEMP.

wire clip off the top panel flange

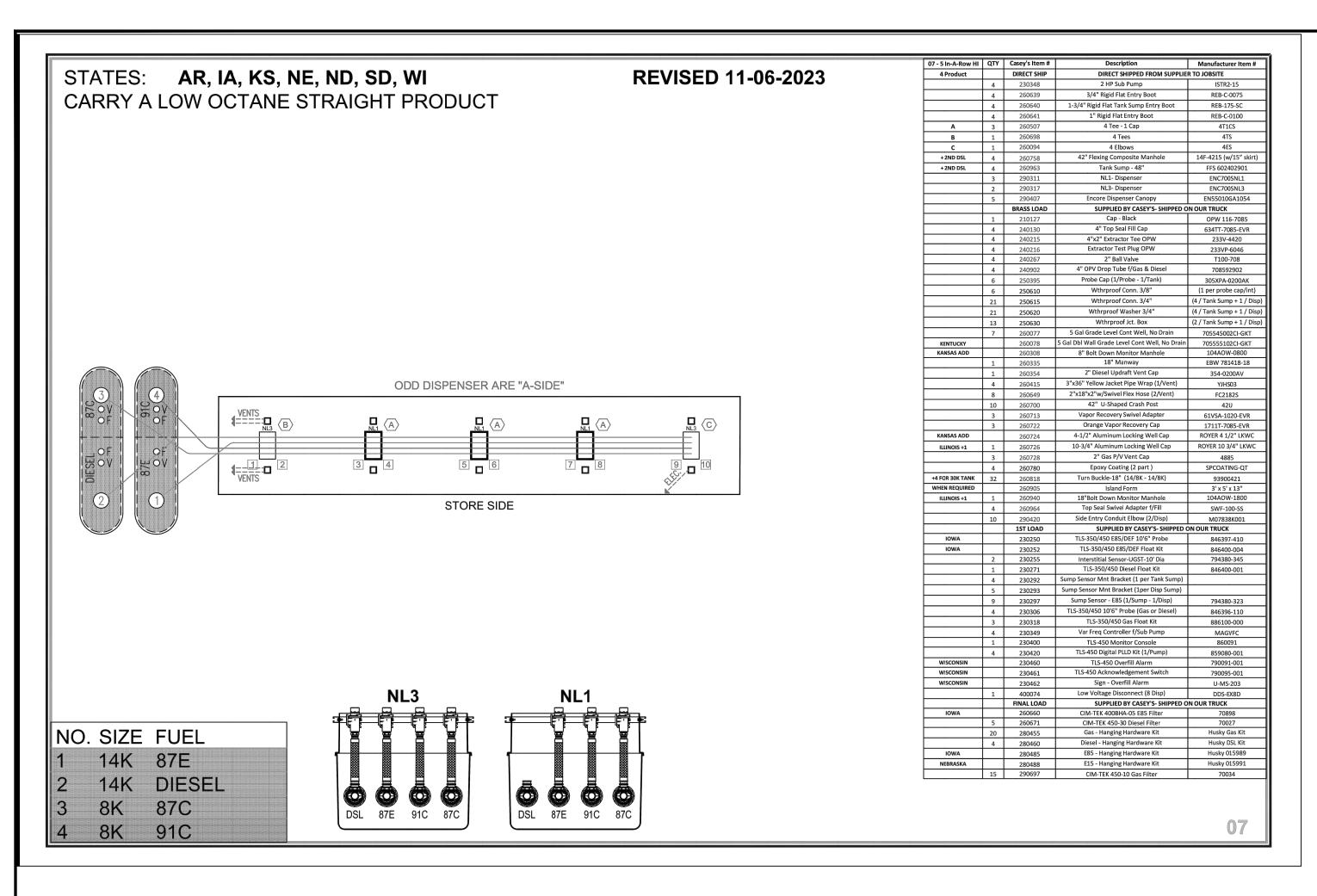
CEL LOW PROFILE - INTELLIGEN ELECTRIC DEFROST 2 SPEED

SALES COOLER & KITCHEN COOLER QR-602 Scale: NTS

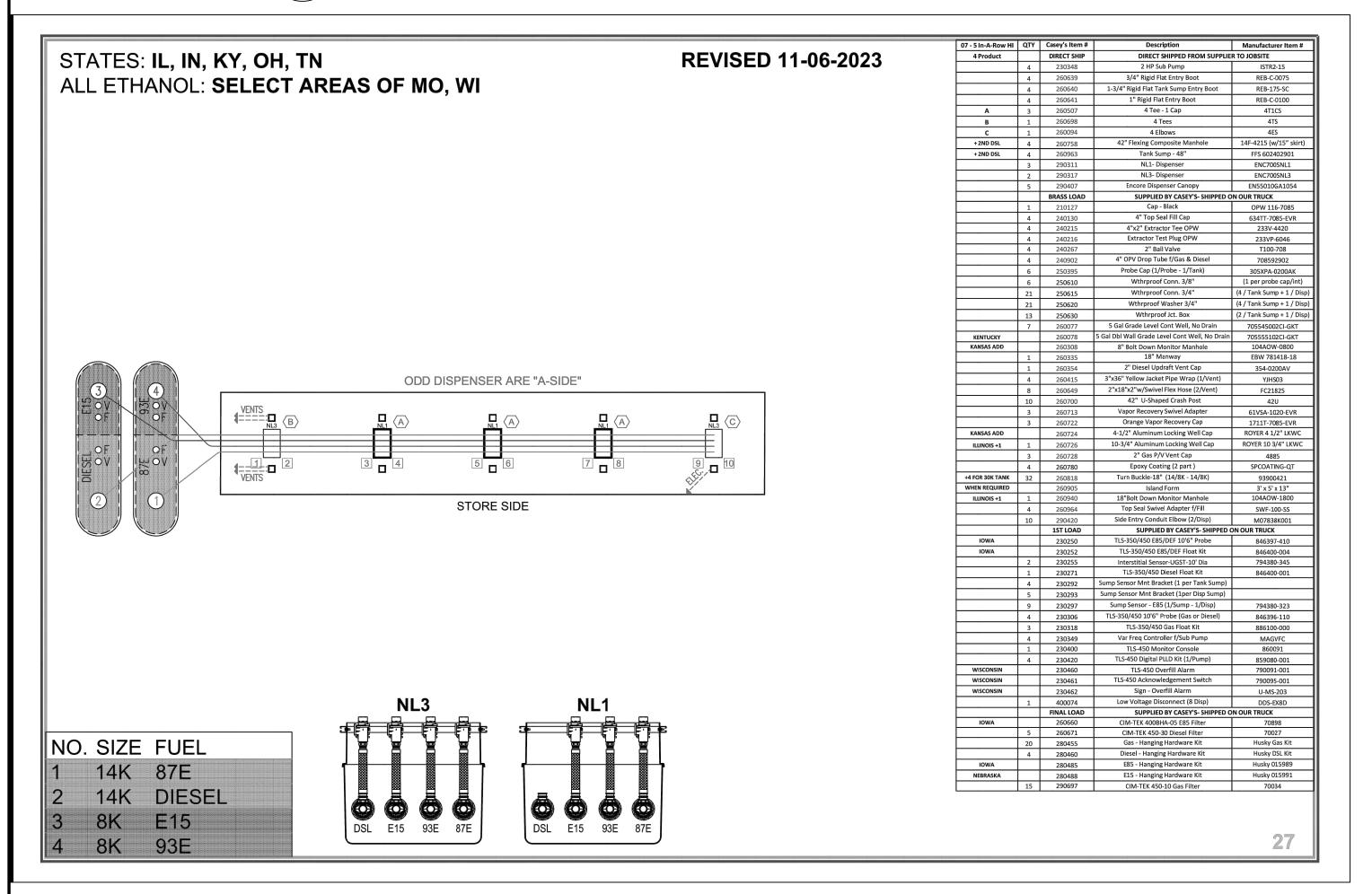


2 STORAGE COOLER OR-602 Scale: NTS

Cas	ey's	aseys	Casey's
One (	CASEY'S COI Convenience Blvd., P.O.	NSTRUCTION [ Box 3001, Ankeny, I	_
	"- STYLE STORE BRICK & STONE)		REFRIGERATION WIRING SCHEMATIC
DRAWING INFORMATION:  CONSTRUCTION  DRAWN BY:  JIM VILMAIN	I DIVISION  CHECKED BY:		QR-602



# Fuel Piping Layout Plan (Low States)



## **Equipment Note**

DUE TO EQUIPMENT SHORTAGES, THE FOLLOWING ALTERNATE ITEMS MAY BE SUBSTITUTED FOR TYPICAL PARTS:

#240902 DROP TUBE

ALT #240410 OPW 71SO-410CT #24092 DROP TUBE

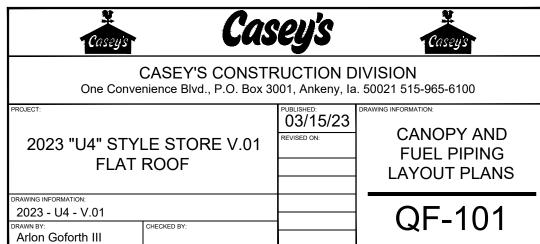
ALT #240412 OPW 71SOM-412CT-E85

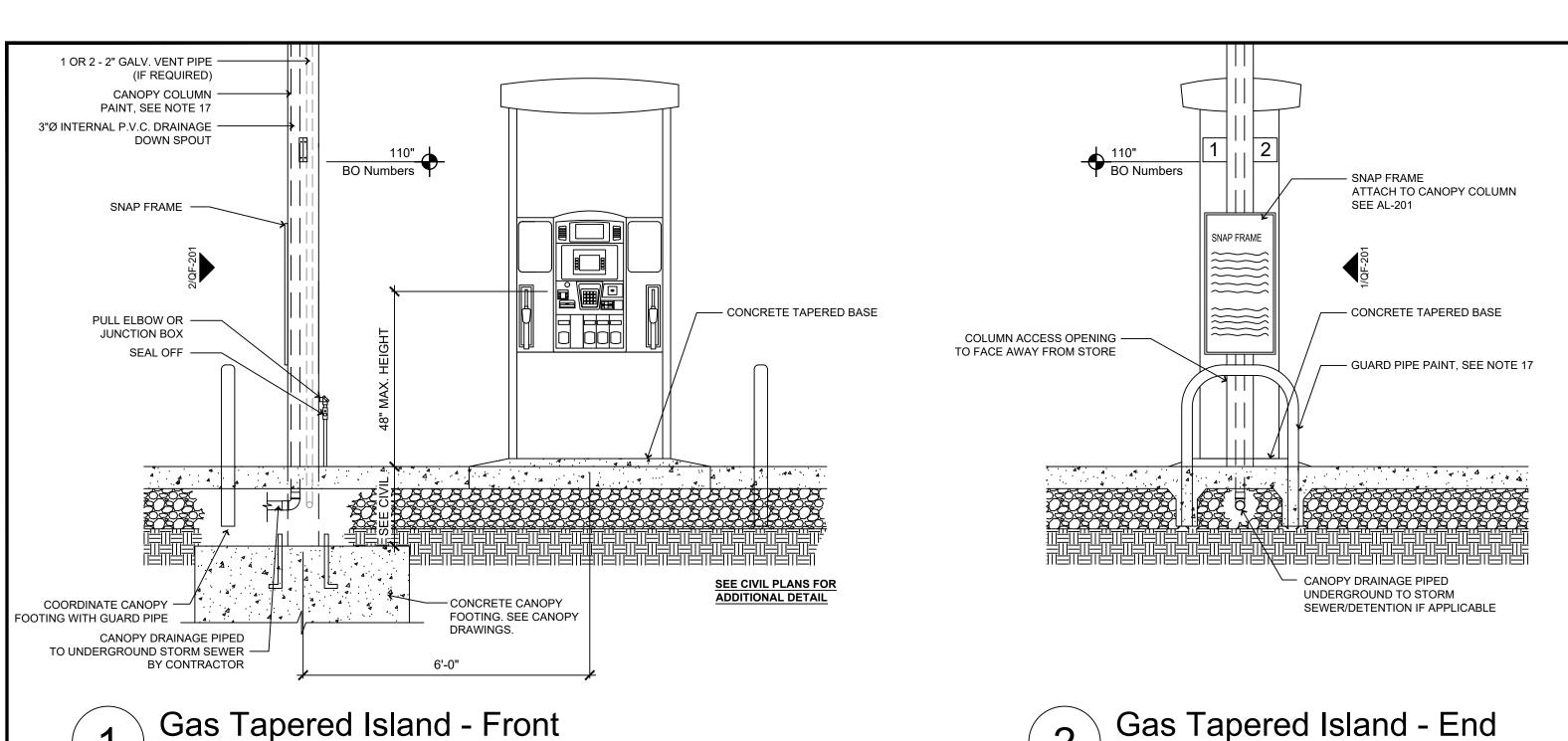
#260075 SPILL BUCKET ALT #260882 OPW 1C3101D

## **General Notes**

- 1. REFER TO ALL DETAIL PAGES REFERENCED ON THIS PLAN
- 2. FOR RELATED INFORMATION SEE THE FOLLOWING SHEETS: C-SHEETS FOR SITE CIVIL INFORMATION AL-SHEETS SITE LAYOUT AND LOCATION OF DISPENSERS / TANKS
- 3. THIS PLAN LAYOUT PROVIDES GENERAL REFERENCE AND RELATIONAL INFORMATION PERTAINING TO THE FUEL DISPENSER ISLANDS AND CANOPY
- 4. FOR LOCATING THESE FACILITIES ON THE SITE REFER TO THE SITE PLAN DRAWINGS CONTAINED IN THIS SET OF DOCUMENTS
- 5. FOR EXACT DESIGN AND LAYOUT OF CANOPY REFER TO SHOP DRAWINGS PROVIDED BY CANOPY MANUFACTURER
- 6. FOR ADDITIONAL SPECIFICATION INFORMATION REGARDING ACCESSORY
- ELEMENTS REFER TO THE CASEY'S SPECIFICATION MANUAL 7. PETROLEUM CONTRACTOR TO SUPPLY ALL APT, FIBERGLASS, BLACK,

GALVANIZED AND STAINLESS STEEL PIPING AND FITTINGS DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.





- ISLAND FORM

PAINT, SEE NOTE 17

SEE CIVIL PLANS FOR ADDITIONAL DETAIL

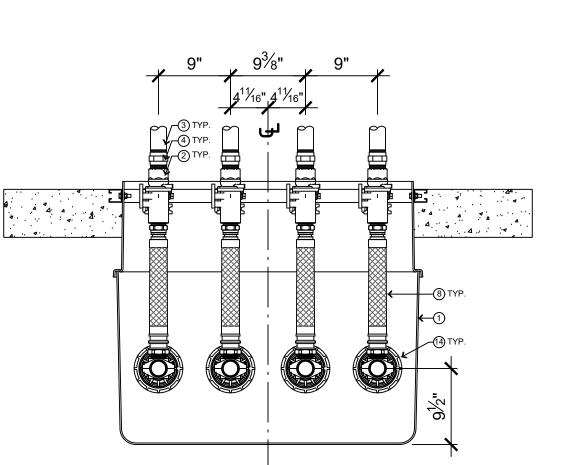
COLUMN ACCESS OPENING -

TO FACE AWAY FROM STORE

FOOTING. SEE CANOPY

6'-0"

Gas Metal Form Island - Front



# NL1 - Containment Sump Details

## **General Notes**

4. VERIFY QUANTITY OF ITEMS PER SITE

- 1. REFER TO ALL DETAIL PAGES REFERENCED ON THIS PLAN
- 2. FOR RELATED INFORMATION SEE THE FOLLOWING SHEETS: C-SHEETS FOR SITE CIVIL INFORMATION
- AL-SHEETS FOR SITE LAYOUT AND LOCATION OF DISPENSERS / TANKS
- 3. CONTRACTOR IS TO REFER TO THE ARNING CANOPY PLANS FOR MORE
- INFORMATION.
- 5. AIR & SOAP TEST TANKS PER MANUFACTURER'S SPECIFICATIONS BEFORE
- INSTALLATION.
- 6. 18" MIN. BURIAL BETWEEN PIPING AND FINISHED SURFACE.
- 7. SLOPE ALL PIPING BACK TO TANK 1/8" PER FOOT MIN.
- 8. AIR & SOAP TEST ALL PRIMARY PRODUCT PIPING, MIN. 12 HR. AFTER INSTALLATION HAS BEEN COMPLETED AT 60 P.S.I. (RECOMMEND LEAVING SOME PRESSURE ON DURING CONST.)
- 9. 2" GALVANIZED VENT PIPES W/90° GALVANIZED ELBOW AND FLEX AT BASE ATTACHED TO STRUT RACK AND PROTECTED WITH BOLLARDS. EXTENDING 12' ABOVE GRADE. (IF REQUIRED, ROUTE VENT PIPES INSIDE OF CANOPY COLUMNS EXTENDING 5' ABOVE CANOPY DECK. MAXIMUM 2 PER COLUMN.)
- 10. AIR & SOAP TEST ALL VENT PIPING, MIN. 12 HR. AFTER INSTALLATION HAS BEEN COMPLETED AT 5 P.S.I. (PRECAUTION IF NOT ISOLATING LINE FROM
- 11. PETROLEUM CONTRACTOR TO SUPPLY ALL APT, FIBERGLASS, BLACK, GALVANIZED AND STAINLESS STEEL PIPING AND FITTINGS.
- 12. PIPE THREAD SEALANT TO BE GASOILA E-SEAL OR EQUIVALENT.

Sump Electrical Detail

13. SHEAR POINT OF EBW 662 EMERGENCY VALVES TO BE FLUSH W/TOP OF

## **General Notes Continued**

- 14. 250# LB. UNIONS REQUIRED AT DISPENSERS AND SUBMERSIBLES. (CONTRACTOR SUPPLIED)
- 15. APPLY SIKAGARD 62 PROTECTIVE COATING ON ALL EXPOSED METAL IN CONJUNCTION W/PETROLEUM, (TANKS, PIPING, RISER PIPES, DISPENSER
- 16. TAPERED CONCRETE ISLAND IS DEFAULT CHOICE. METAL ISLAND FORMS TO BE USED ONLY WHEN REQUIRED BY LOCAL JURISDICTION.
- 17. CONTRACTOR TO CLEAN & PAINT 2 COATS (BRONZE) ON ISLAND FORMS, GUARD PIPES, DOWN SPOUTS AND CANOPY COLUMNS. CONTRACTOR SUPPLIED PAINT TO BE SHERWIN WILLIAMS SHER KEM F75TC1 LOW GLOSS. 1 GALLON PAINT FORMULA - CASEY'S BRONZE:
  - B1 6 OZ AND 48 32NDS R2 2 32NDS
  - Y3 13 32NDS
  - W1 24 32NDS G2 1 32ND

ABOVE BOTTOM OF SUMP.

SUMPS, ETC.) UNDERGROUND.

- 18. HYDROSTATIC LIQUID TESTING REQUIRED ON DISPENSER SUMPS AND TANK SUMPS.
- 19. FINAL TIGHTNESS TESTING REQUIRED ON TANKS & PIPING (PERFORMED
- 20. SUMP SENSOR TO BE INSTALLED SITTING ON THE BOTTOM OF THE SUMP INSIDE 2" FIBERGLASS PIPE (CONTRACTOR SUPPLIED) ATTACHED TO THE SUMP WITH A 2" CHANNEL PIPE CLAMP. FIBERGLASS PIPE INSTALLED 1/2"
- 21. CONTRACTOR TO INSTALL PETROLEUM HANGING HARDWARE IN THE FOLLOWING ORDER: DISPENSER, SHORT (WHIP) HOSE, BREAKAWAY, LONG HOSE, SWIVEL, NOZZLE.
- 22. TANK SUMPS & DISPENSER SUMPS TO BE CLEANED & DRIED PRIOR TO FINAL INSPECTION.
- 23. TANKS CONTAINING PRODUCT TO HAVE MONITORING AND LOGGING OF LEVELS THROUGHOUT CONSTRUCTION.
- 24. SNAP FRAME BRACKET KITS WILL BE SUPPLIED BY OWNER (IF APPLICABLE).
- 25. FOLLOW ALL MANUFACTURER SPECIFICATIONS.
- 26. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 30, NFPA 30A, NFPA 70, STATE AND LOCAL REGULATIONS

## **Keyed Construction Notes**

- 1) DISPENSER CONTAINMENT SUMP
- (2) 1-1/2" EBW 662 EMERGENCY VALVE
- (3) 11" RISER PIPE (4) 1-1/2" UNION 250#
- (5) STABILIZER BAR
- (16) 2" FIBERGLASS PIPE (6) MOUNTING PLATE (17) 1" RIGID CONDUIT
- (7) DISPENSER ANCHOR BOLT
- (19) 3/4" RIGID CONDUIT (8) FLEX CONNECTOR
- (9) 2" S/S 90° ELBOW (20) 3/4" SEAL-OFF (10) 2" S/S TEE
  - (21) 3/4" EXPLOSION PROOF JUNCTION BOX

(12) REMOVABLE APT SECONDARY TEST BOOT

(13) 1-3/4" APT FLEXIBLE DOUBLEWALL PIPE

(14) APT 1-3/4" RIGID ENTRY BOOT

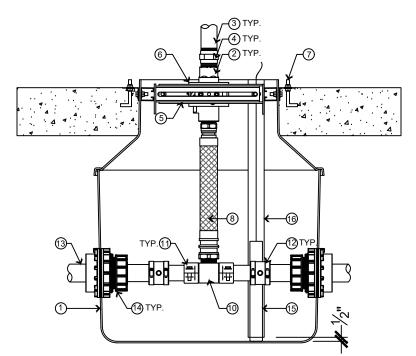
(15) VR SUMP SENSOR

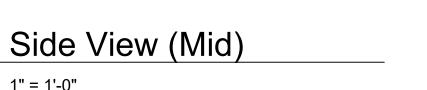
(18) 1" SEAL-OFF

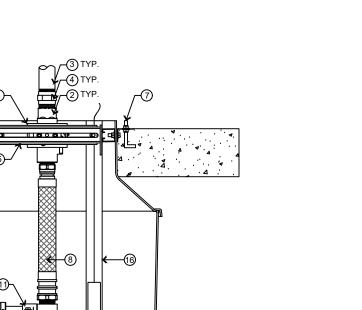
## **Sump Notes**

- 1. ALL A-SIDES ARE TOWARDS THE STORE, TANK #1 PIPING IS ALWAYS TO THE RIGHT.
- 2. FOLLOW MANUFACTURERS INSTRUCTIONS, SPECIFICATIONS. 3. PIPE ALL PRODUCTS THROUGH ALL SUMPS. PLUG TEES AT SUMPS
- THAT DO NOT USE ALL PRODUCTS 4. RIGID CONDUITS TO BE RUN ON OUTSIDE OF PUMP BOX. DO NOT
- PENETRATE PUMP BOX WITH CONDUIT
- 5. CONTRACTOR TO NOTE PIPING LINE LENGTH FOR VEEDER-ROOT PROGRAMMING.



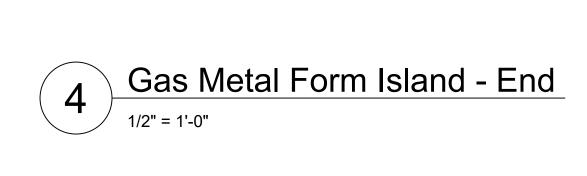






SUMP SENSOR □

INTERCOM ⊑ POWER ⊊



SNAP FRAME

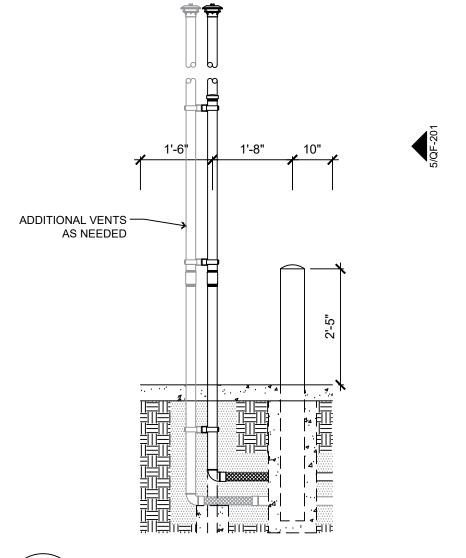
SEE AL-201

UNDERGROUND TO STORM

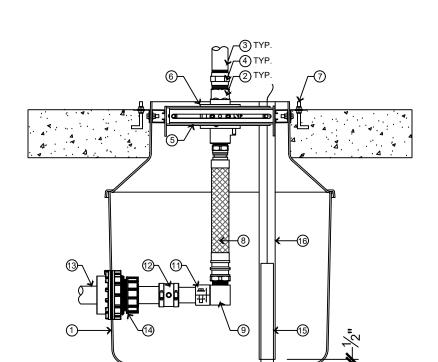
SEWER/DETENTION IF APPLICABLE

ATTACH TO CANOPY COLUMN

—— GUARD PIPE PAINT, SEE NOTE 17

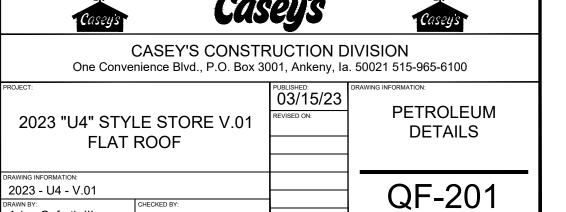


Tank Vent Detail - End



Side View (End)

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## 2 INCH PIPE SUPPORT -2 INCH 300# COUPLING — BOLLARD CONCRETE IN -SONOTUBE PLACED 1 000 1 000 1 000 1 000 1 DURING BACKFILL



1 OR 2 - 2" GALV. VENT PIPE -

3"Ø INTERNAL P.V.C. DRAINAGE

(IF REQUIRED)

DOWN SPOUT

SNAP FRAME

PULL ELBOW OR -

JUNCTION BOX

COORDINATE CANOPY —

OOTING WITH GUARD PIPE

SEAL OFF

CANOPY DRAINAGE PIPED

2 INCH CAP -

BY CONTRACTOR

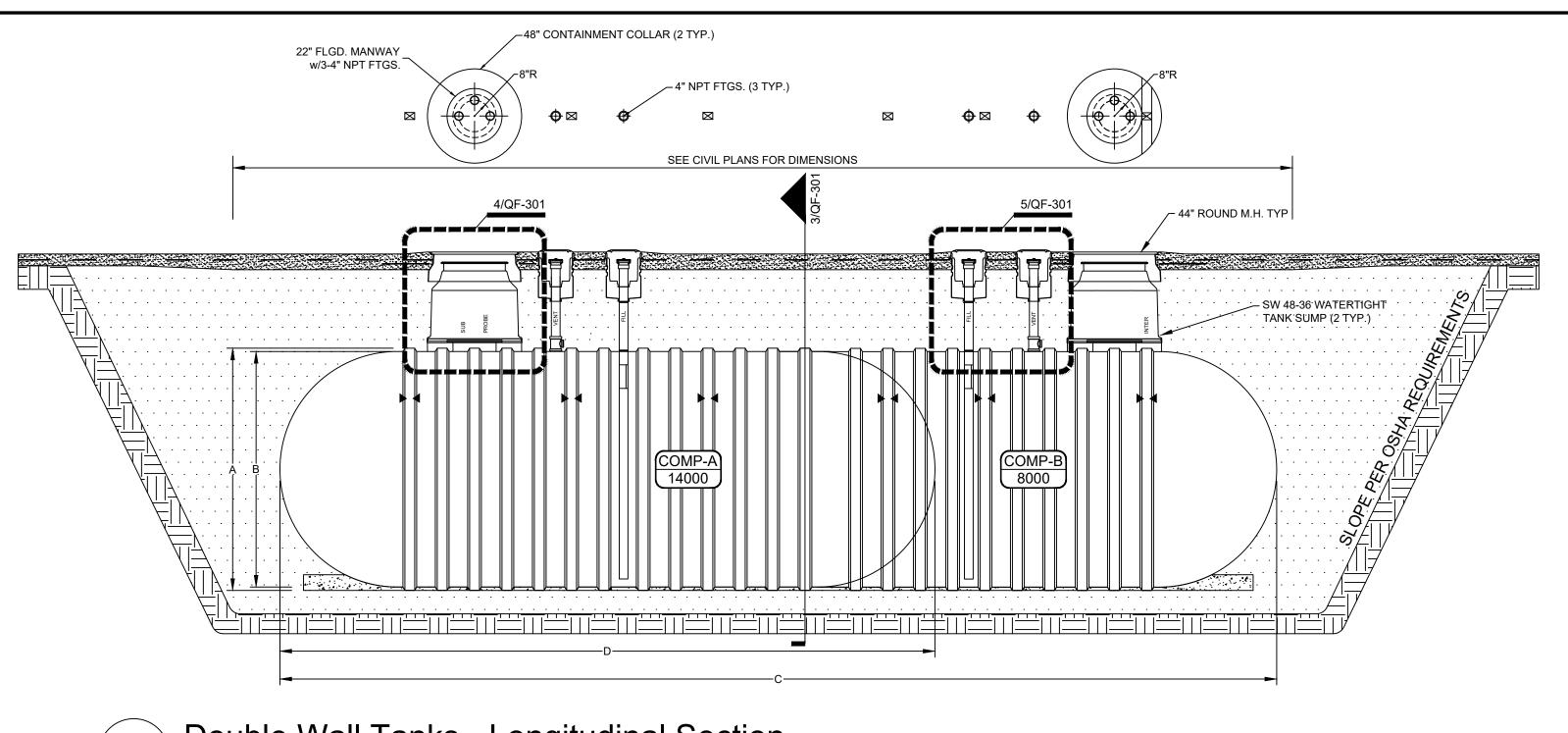
2" GALV. VENT PIPE

TO UNDERGROUND STORM SEWER

BO Numbers

**CANOPY COLUMN** PAINT, SEE NOTE 17

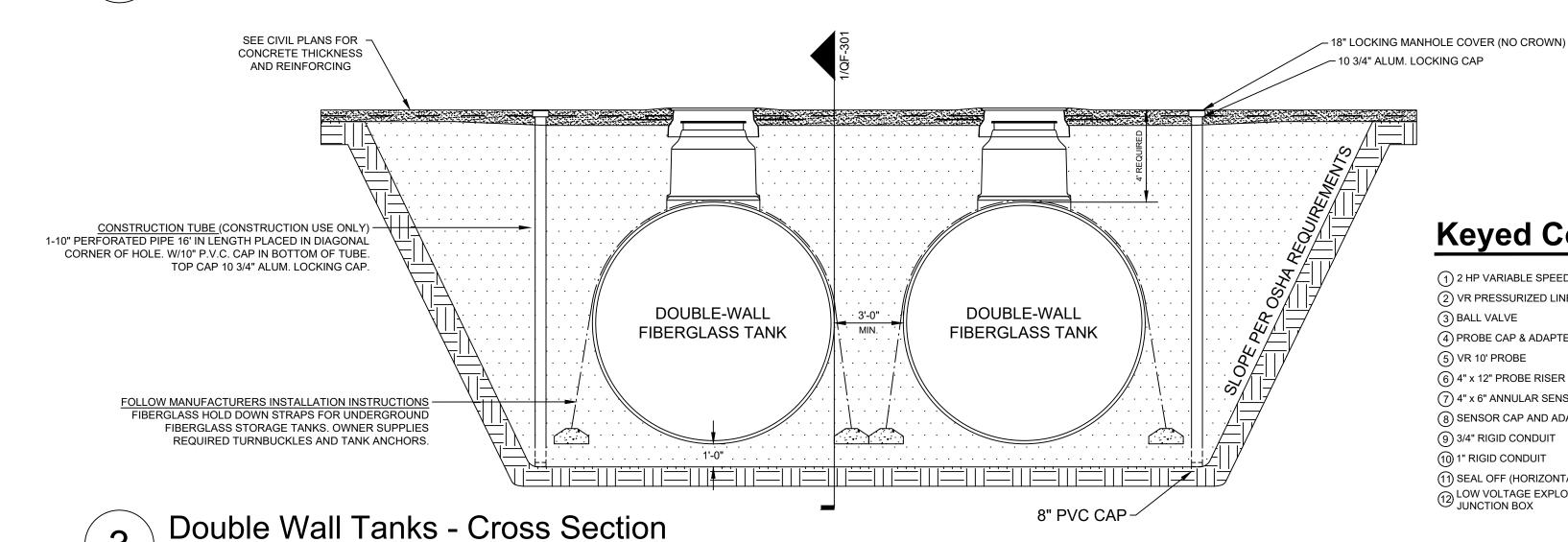




Double Wall Tanks - Longitudinal Section

-48" CONTAINMENT COLLAR (2 TYP.) 22" FLGD. MANWAY w/3-4" NPT FTGS. 4" NPT FTGS. (3 TYP.) SEE CIVIL PLANS FOR DIMENSIONS - 44" ROUND M.H. TYP - SW 48-36 WATERTIGHT TANK SUMP (2 TYP.) COMP-A COMP-B 8000 14000 

Double Wall Tanks - Longitudinal Section



**Tank Dimensions** CSI XERXES ZCL

A 10' - 6" 10' - 4" 10' - 5½"

B 10' - 0" 10' - 0" 10' - 1"

D 27' - 10" 26' - 11 \frac{1}{4}" 26' - 1"

C  $42' - 4\frac{1}{4}''$   $40' - 8\frac{1}{4}''$   $39' - 9\frac{5}{8}''$ 

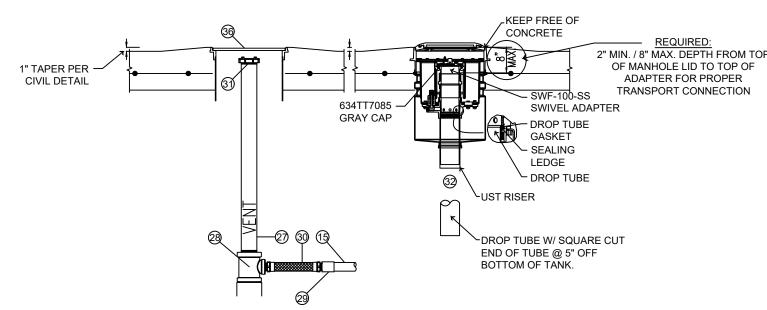
1 MIN. 18" ADDITIONAL WIRE COILED & ROLLED IN JUNCTION BOX DO NOT CUT PROBE WIRE MARK EACH END FROM EACH TANK

2 SUMP SENSOR TO BE MOUNTED AT LOWEST AREA OF SUMP

Petroleum UGST Detail

KEEP FREE OF OF MANHOLE LID TO TOP OF 1" TAPER PER -ADAPTER FOR PROPER CIVIL DETAIL TRANSPORT CONNECTION ORANGE CAP 1611AV1620 -<sup>∟</sup> DROP TUBE DROP TUBE W/ SQUARE CUT END OF TUBE @ 5" OFF BOTTOM OF TANK.

Gasoline Fill Containment Detail



Diesel Fill Containment Detail

**Tank Dimensions** CSI XERXES ZCL A 10' - 6" 10' - 4" 10' - 5<sup>1</sup>/<sub>2</sub>" B 10' - 0" 10' - 0" 10' - 1" C  $42' - 4\frac{1}{4}''$   $40' - 8\frac{1}{4}''$   $39' - 9\frac{5}{8}''$ 

D 27' - 10" 26' - 11 ½" 26' - 1"

ALL PIPING TRENCH MEASUREMENTS ARE MIN 0 0 0 0

FOLLOW ALL MANUFACTURES SPECIFICATIONS FOR PRODUCT PIPING (A.P.T. ADVANCED POLYMER TECHNOLOGY) AND VENT PIPING (N.O.V. FIBERGLASS) ALL ARTIFICIAL PIPING SUPPORTS TO BE REMOVED BEFORE FINAL BACKFILL

Petroleum Pipe Trench Detail

JIM VILMAIN

## **Keyed Construction Notes**

1) 2 HP VARIABLE SPEED STP (2) VR PRESSURIZED LINE LEAK DETECTOR (14) VR SUMP SENSOR (3) BALL VALVE (4) PROBE CAP & ADAPTER (5) VR 10' PROBE (6) 4" x 12" PROBE RISER

(7) 4" x 6" ANNULAR SENSOR RISER (8) SENSOR CAP AND ADAPTER (9) 3/4" RIGID CONDUIT (10) 1" RIGID CONDUIT (11) SEAL OFF (HORIZONTAL REQUIRED) LOW VOLTAGE EXPLOSION PROOF U JUNCTION BOX

(13) 3/4" EXPLOSION PROOF FLEX ECF 224 (25) FIELD BONDED JOINT (15) 2" FIBERGLASS PIPE (16) 2" UNION 250# (17) APT MALE SWIVEL FITTING MS-XP (18) APT SECONDARY TEST BOOT (19) APT 3/4" RIGID ENTRY BOOT (20) 1 3/4" APT FLEXIBLE DOUBLEWALL PIPE (21) APT 1 3/4" RIGID ENTRY BOOT 22) 2" GALVANIZED 90° ELBOW

(23) 2"x2 1/2" GALVANIZED NIPPLE

(24) 48" TURBINE ENCLOSURE

(26) 48" COLLAR MANUFACTURER INSTALLED (27) 4" x 32" VENT RISER (28) 4" X 2" VENT EXTRACTOR TEE (29) 2" NPT BELL FEMALE (30) 2" x 18" FLEX (31) OPW 116 CAP - BLACK (32) EBW DEFENDER OPV & DROP TUBE (33) 2" STRUT PIPE CLAMP (34) 2 HOLE STRUT 90 BRACKET (35) 1/2" X 3" BOLT W/FENDER WASHER

(36) 18" MANWAY

DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.

,			
One Co	CASEY'S CONST		
	- STYLE STORE RICK & STONE)	PUBLISHED: 06/18/21 REVISED ON:	PETROLEUM TANK SECTIONS & DETAILS
DRAWING INFORMATION:  CONSTRUCTION  DRAWN BY:	DIVISION CHECKED BY:		QF-301

## Soil & Fill Material

Fuel Fill Identification

REGULAR E0 GASOLINE (ALL WHITE, BLACK "0")

MIDGRADE E0 GASOLINE (ALL BLUE, BLACK "0")

PREMIUM E0 GASOLINE (ALL RED, BLACK "0")

**REGULAR E10 GASOLINE** 

(ALL WHITE)

MIDGRADE E10 GASOLINE (ALL BLUE)

PREMIUM E10 GASOLINE

(ALL RED)

(ALL COPPER, BLACK "E15")

(ALL COPPER, BLACK "E85")

ON-ROAD DIESEL < 5% BIO

(ALL YELLOW)

ON-ROAD DIESEL > 5% BIO

(XX=% BIOMASS)

VAPOR RECOVERY

(ALL ORANGE)

**VENT ACCESS** 

(FACTORY BLACK)

\*PAINT TO EXTEND PAST LID ON TO CONCRET \*CONTACT CONSTRUCTION SUPERVISOR FOR

IDENTIFICATION OF ADDITIONAL PRODUCTS

**General Notes** 

DISPENSERS / TANKS

STEEL PIPING AND FITTINGS

FRANKLIN YELLOW JACKETS

9. ALL ELECTRICAL CONNECTIONS AND

WATER-TIGHT, AND FOLLOWING ALL MANUFACTURER SPECIFICATIONS 10. TANK TAGS ARE TO PROVIDE: TANK SIZE,

CONTAINMENT SUMPS

OSHA REGULATIONS

PRODUCT & OCTANE

REQUIRED

1. REFER TO ALL DETAIL PAGES REFERENCED ON

C-SHEETS FOR SITE CIVIL INFORMATION

3. REQUIRED - ISOPROPYLENE TO BE USED FOR

REMOVAL OF WATER AFTER TANK INSTALL 4. PETROLEUM CONTRACTOR TO SUPPLY ALL APT, FIBERGLASS, BLACK, GALVANIZED AND STAINLESS

5. FIBERGLASS VENT PIPING TO HAVE FLEX

6. SUMP SENSORS AND INTERSTITIAL SENSORS

Y. HYDROSTATIC TESTING IS REQUIRED ON ALL

8. CONTRACTOR SHALL COMPLY WITH APPLICABLE

COMPONENTS ARE TO BE CLASS 1-DIVISION 1,

2. FOR RELATED INFO. SEE THE FOLLOWING SHEETS:

AL-SHEETS FOR SITE LAYOUT AND LOCATION OF

CONNECTORS AT EACH END, TO BE WRAPPED W/

ON-ROAD DIESEL > 5% BIO
(ALL YELLOW, BLACK "BXX")
(XX=% RIOMASS)

COPPER

COPPER

**CRUSHINGS**: TO BE WASHED STONE OR GRAVEL W/ANGULAR PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2" IS REQUIRED

**GRAVEL**: A CLEAN NATURALLY ROUNDED AGGREGATE W/ A MIX OF PARTICLE SIZES NOT LESS THAN 1/8" OR MORE

STONE NATURALLY CRUSHING ROUNDED

NOTE: ALL BACKFILL MATERIALS MUST MEET ASTM C-33 PARAGRAPH 91 FOR QUALITY & SOUNDNESS. BACKFILL SHOULD HAVE PARTICLE SIZES WITH NO MORE THAN 5%.PASSING THROUGH A #8 SIEVE.

THAN 3/4" IS REQUIRED

1/4" = 1'-0"

### Lee's Summit, N

- **General Notes**
- 2 FOR RELATED INFORMATION SEE THE FOLLOWING SHEETS: C-SHEETS FOR SITE CIVIL INFORMATION AL-SHEETS FOR LAYOUT AND LOCATION OF DISPENSERS / TANKS E-SHEETS FOR ELECTRICAL INFORMATION
- 3 PULL TWO EXTRA WIRES TO PUMP JUNCTION BOX AS SHOWN

1 REFER TO ALL DETAIL PAGES REFERENCED ON THIS PLAN

- 4 ONLY FIELD WIRING CONNECTIONS ARE SHOWN IN THE JUNCTION BOXES. CAP ALL UNUSED WIRES
- 5 INSTALL GROUND WIRE AS SHOWN
- 6 SEPARATE BREAKER PER SUBMERSIBLE PUMP
- 7 PROVIDE BARRIER OR ADEQUATE SPACE BETWEEN COMMUNICATION WIRING AND POWER WIRING WHEREVER BOTH ARE PRESENT
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- 9 CAT 6 WIRE FROM DISPENSER TO LOW VOLTAGE DISCONNECT. "NOTICE" CAT 6 REQUIREMENTS: 23 AWG CAT 6 UTP, PLENUM RATED, SUNLIGHT, OIL AND GAS RESISTANT, SUITABLE FOR WET LOCATIONS, GAS/VAPOR TIGHT FEP JACKET

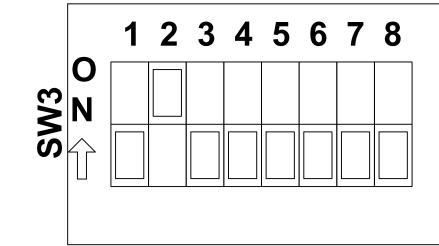
#### USE STRANDED WIRE AND COLORS AS SHOWN ONLY!!

#### WARNING!

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## Mag VFC

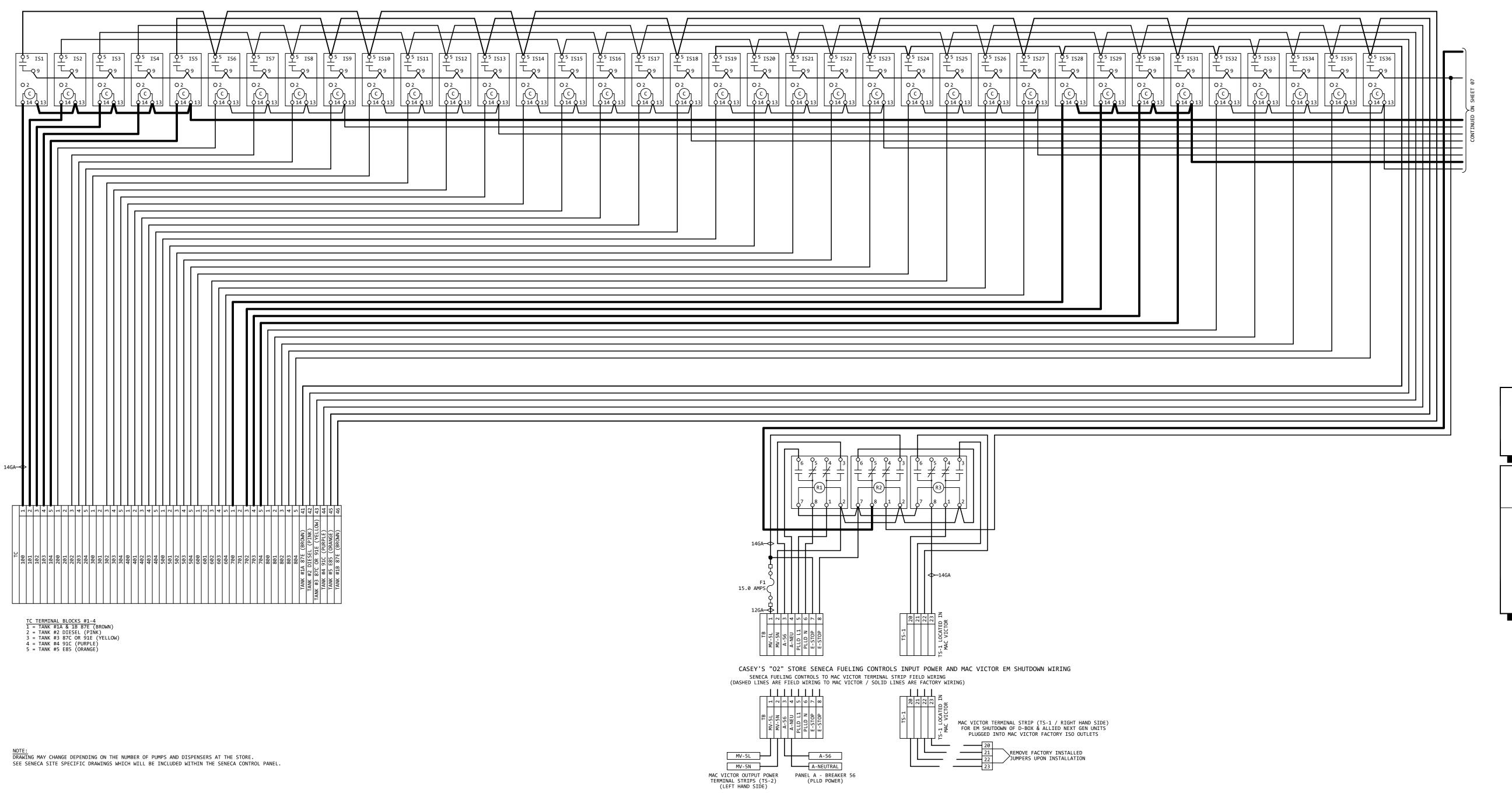
JIM VILMAIN



THE DIESEL APPLICATION ALL SWITCHES ARE OFF. THE GASOLINE APPLICATION SWITCH #2 IS ON, ALL OTHERS ARE OFF.

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CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100 PETROLEUM 2021 "O6"- STYLE STORE SYSTEM WIRING (FLAT / BRICK & STONE) DIAGRAM CONSTRUCTION DIVISION QF-601



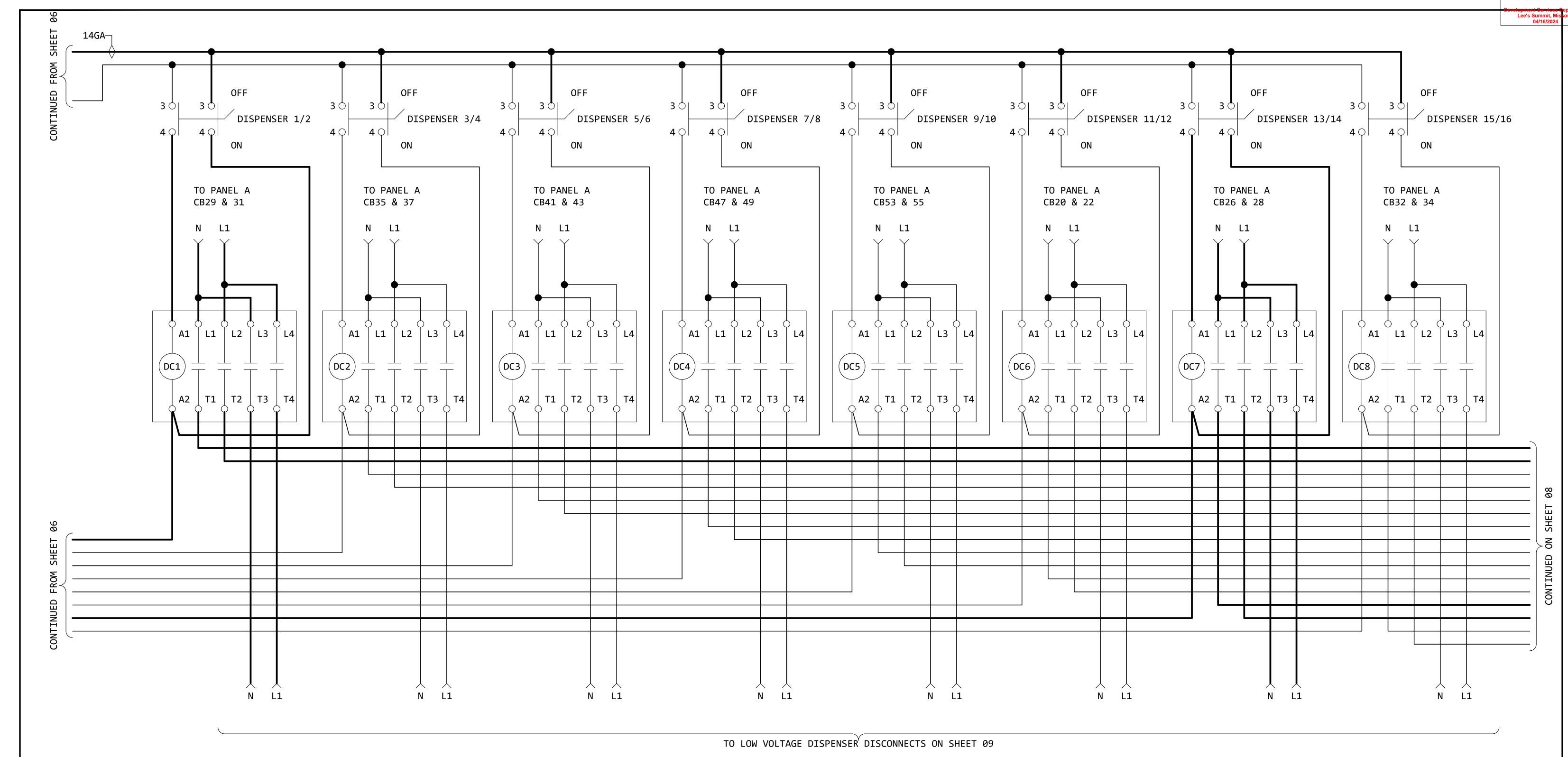
## Lighting & Pump Control Panel Wiring

#### Fueling Controls overview and Emergency Shutdown sequence of operation

Seneca Dispenser Panel - provides dispenser power & hook isolation protection, dispenser & submersible pump maintenance isolation switches, and emergency shutdown for all dispensers, submersible pumps, and the Veeder Root PLLD (pressurized line leak detection) power. See E-502 (3 & 3A) and Seneca shop drawings for site specific wiring terminations.

Mac Victor Power - provides battery backup and power protection for Veeder Root electronics for continuous monitoring even during power failures. Provides battery backup and power protection for Gilbarco D-box and Allied NexGen devices during normal operation and also disconnects both of these data devices during emergency shutdown events. Provides battery backup for Seneca emergency shutdown relays to prevent utility power failure disturbances from shutting down critical devices unnecessarily. See E-502 (2 & 3) for specific Mac Victor wiring

**Emergency Shutdown** – when Emergency Switch is activated at the front counter, the relays inside the Seneca Dispenser Panel disconnect all dispenser power, Veeder Root PLLD power, and all submersible pump power. In addition, relays inside the Seneca Dispenser Panel disconnect all power to both the Gilbarco D-box and Allied NexGen data boxes through wiring inside the Mac Victor Power box. See E-502 (3) for specific wiring terminations.



#### NOTE:

DRAWING MAY CHANGE DEPENDING ON THE NUMBER OF PUMPS AND DISPENSERS AT THE STORE.

SEE SENECA SITE SPECIFIC DRAWINGS WHICH WILL BE INCLUDED WITHIN THE SENECA CONTROL PANEL.



Lighting & Pump Control Panel Wiring

No Scale

Fueling Controls overview and Emergency Shutdown sequence of operation

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  GAS/VAPOR TIGHT FEP JACKET

## USE STRANDED WIRE AND COLORS AS SHOWN ONLY!!

## WARNING!

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FAILURE DURING INSTALLATION AND SERVICE
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JIM VILMAIN

CASEY'S CONSTRUCTION DIVISION
One Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100

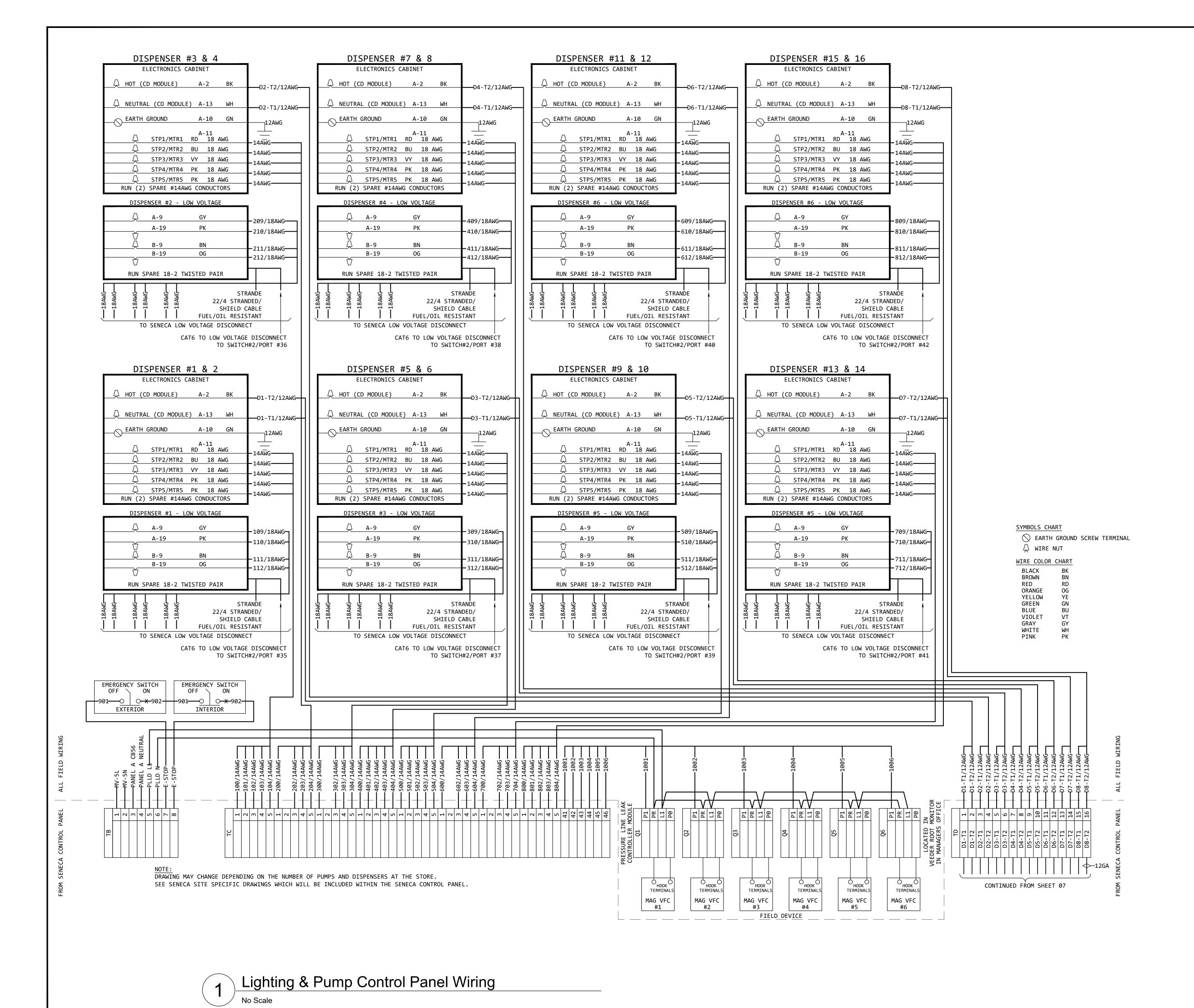
2021 "O6"- STYLE STORE (FLAT / BRICK & STONE)

AWING INFORMATION:
CONSTRUCTION DIVISION
ANN BY:
CHECKED BY:

COMMISSING DIAGRAM

PETROLEUM SYSTEM WIRING DIAGRAM

QF-602



USE STRANDED WIRE AND COLORS AS SHOWN ONLY!

#### **WARNING!**

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  SUNLIGHT, OIL AND GAS RESISTANT, SUITABLE FOR WET LOCATIONS
  GAS/VAPOR TIGHT FEP JACKET

MTW, UL APPROVED GASOLINE AND OIL RESISTANT

10 CAT 6 WIRE FROM LOW VOLTAGE DISCONNECT TO ETHERNET SWITCH #2 PORTS# 35-48 AS NEEDED

#### Fueling Controls overview and Emergency Shutdown sequence of operation

<u>Seneca Dispenser Panel</u> – provides dispenser power & hook isolation protection, dispenser & submersible pump maintenance isolation switches, and emergency shutdown for all dispensers, submersible pumps, and the Veeder Root PLLD (pressurized line leak detection) power. See E-502 (3 & 3A) and Seneca shop drawings for site specific wiring terminations.

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One Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100

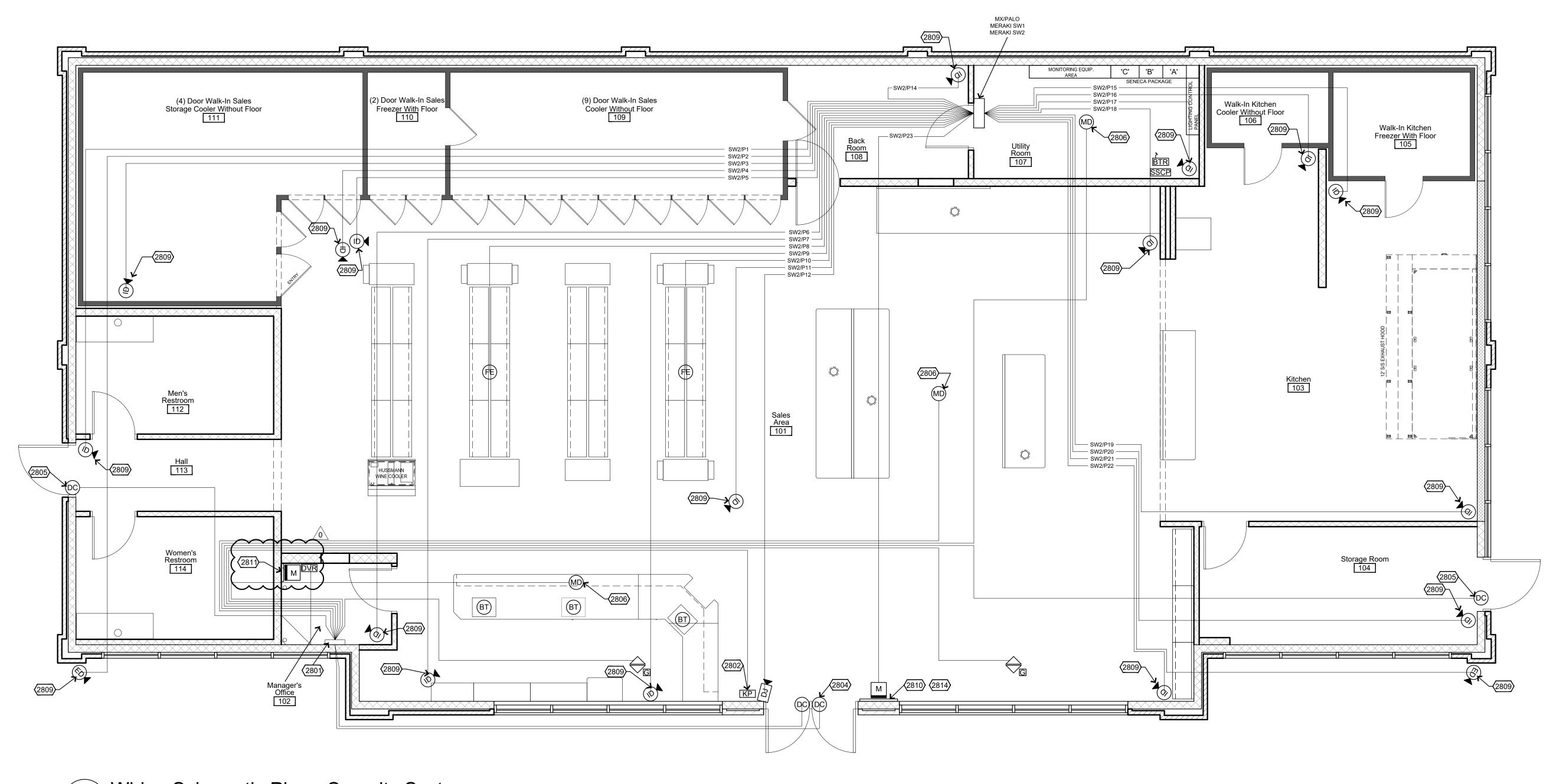
2021 "O6"- STYLE STORE
(FLAT / BRICK & STONE)

CONSTRUCTION DIVISION

JIM VILMAIN

PETROLEUM SYSTEM WIRING DIAGRAM

QF-603



# Wiring Schematic Plan - Security System

## **Equipment Schedule**

DESCRIPTION:	MODEL No.:	PART No.:	QUANITY
DVR	CBE-2HD1610-36TB-8IP	450194	1 EACH
FISHEYE CAMERAS	VX-6M-360-IAW	450188	2 EACH
DOOR JAMB CAMERA MOUNTED ON MULLION OF DOOR FACING INSIDE THE STORE @ 5'-0" HIGH	XNB-H6461D	450185	1 EACH
IP CAMERA	CBE-28OVD-5MP	450183	18 EACH
OUTDOOR WALL MOUNT	CBE-OVD-WM-CAP	450181	2 EACH
SECURITY BATTERY		450105	1 EACH
BOSCH ALARM PANEL KIT	B4512-C-921C	450357	1 EACH
BOSCH MOTION	DS9360	450356	3 EACH
BILL TRAP	EN1249-INOVONICS	450179	3 EACH
BILL TRAP RECEIVER	EN4204R-INOVONICS	450178	1 EACH
CONTACT (DOOR)	SM-216Q1BR	450130	4 EACH
GLASS BREAK	FG-1625	450150	2 EACH
A DEMCO LARGE SIREN		402500	1 EACH
MONITOR BRACKET-22"		450216	1 EACH
MONITOR-24" HDMI		450225	1 EACH
32" MONITOR		450233	1 EACH
32" MONITOR BRACKET		450423	1 EACH

## **General Construction Notes**

- 1 ALARM WIRING TO BE 22/4 AWG STRANDED & SHIELDED, CLASS A WIRING WITH RESISTORS IN PANEL
- 2 DO NOT RUN WIRE CLOSE TO LIGHTS, (MIN OF 5' AWAY) 3 MOTION, KEYPAD, BILL TRAP RECEIVER, DOOR CONTACTS, AND GLASS BREAKS ARE 22/4 AWG STRANDED AND SHIELDED (RED, BLACK, GREEN,
- 4 CUT EACH YELLOW CAT6 WIRE AT FLOOR LEVEL. SERVICE LOOP ABOVE

## Symbol Legend

- VIDEO RECORDER
- FISH EYE CAMERA
- DJ DOOR JAMB CAMERA
- ID IP CAMERA
- ED◀ IP CAMERA & OUTDOOR WALL MOUNT
- BOSCH ALARM PANEL
- BOSCH KEYPAD 22/4 AWG STRANDED AND SHIELDED
- BILL TRAP WIRELESS TRANSMITTER

BILL TRAP RECIEVER - 22/4 AWG STRANDED AND SHIELDED

MOTION DETECTOR - 22/4 AWG STRANDED AND SHIELDED

- DOOR CONTACTS 22/4 AWG STRANDED AND SHIELDED
- GLASS BREAKS 22/4 AWG STRANDED AND SHIELDED
- MONITOR 32" & 22"

## **Specifications**

WIRE: 22 GAUGE, 4 CONDUCTOR, STRANDED & SHIELDED COPPER WIRE 2 P.I.R. & GLASS BREAK SENSORS: 2-WIRES POWER 2-WIRES CONTACTS

3 DOOR CONTACTS: 4-WIRE CLASS "A" LOOP WITH RESISTORS AT THE

4 YELLOW CAT 6 PLENUM WIRE TO ALL CAMERAS WITH A 10'-0" SERVICE

## LOOP TO ALL CAMERA LOCATIONS.

**ALARM ZONE LAYOUT WITH TERMINAL #:** 

- ZONE #1 BILL TRAP 8+9 ZONE #2 GLASS BREAK SENSORS 10+11 ZONE #3 FRONT DOOR (ENTRANCE) 12+13 ZONE #4 BACK DOOR (EXIT) 13+14
- ZONE #5 MOTION 15+16 ZONE #6 16+17 BACKROOM MOTION
- ZONE #7 SIDE DOOR (EXIT) 18+19 ZONE #8 SPARE ZONE 19+20 (OPEN-NOT BEING USED)

### Division 28 - Electronic Safety and Security

(2801) BOSCH B4512 PANEL : MOUNT IN OFFICE @ 76" AFF ABOVE CEILING

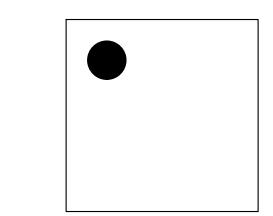
**Keyed Construction Notes** 

- OPENING OF DOOR
- (2803) TYP. ASC25 GLASS BREAK SENSOR, MOUNT TO TILE. 4 WIRE, USE RED, GREEN, BLACK & WHITE
- WIRE, USE GREEN & WHITE
- (2805) TYP. DOOR CONTACT, MOUNT FLUSH WITH INSIDE OF DOOR & HEADER FRAME, PLACE A SPACER BEHIND MAGNET. TWO WIRE, USE GREEN AND WHITE. DO NOT CUT MAGNETIC WEATHER STRIP. SEE DETAIL THIS PAGE (2814) OPTIONAL DIESEL MONITOR. VERIFY DIESEL OPTION WITH AL-101 SITE
- (2806) TYP. BOSCH 360° MOTION DETECTOR, CEILING MOUNTED. 4 WIRE, USE RED, GREEN, BLACK & WHITE
- (2809) SECURITY CAMERA, MOUNTED BELOW CEILING LINE. CAMERA NUMBER AS NOTED. COORDINATE WITH OWNERS. (CONTRACTOR TO MOUNT 4"x4" BRACKET @ 12' A.F.F.)

TYP. 6128 KEYPAD INSIDE OF BLDG. @56" HEIGHT AND 10" FROM ROUGH (2811) CAMERA SYSTEM LOCATED IN MANAGER OFFICE DVR, 16 CHANNEL RECORDER CAMERA #1 TO PORT #1; CAMERA 2 TO PORT #2 AND 22" MONITOR MOUNTED ON WALL. DVR LOCATED ON MIDDLE SHELF IN MANAGERS OFFICE, BOTH CAMERA CABLES NEED TO HAVE 5 FEET

2810 32" SECURITY MONITOR

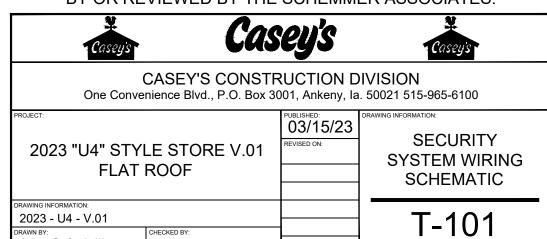
- TYP. DOOR CONTACT, MOUNTED 4" OVER FROM CENTER JAMB 2-1/2" IN FROM DOOR GLASS & 1-1/2" IN FROM DOOR TO BLOCK ON FRAME. TWO WIRE, USE GREEN & WHITE
  - OPTIONAL DIESEL CAMERA. VERIFY DIESEL OPTION WITH AL-101 SITE



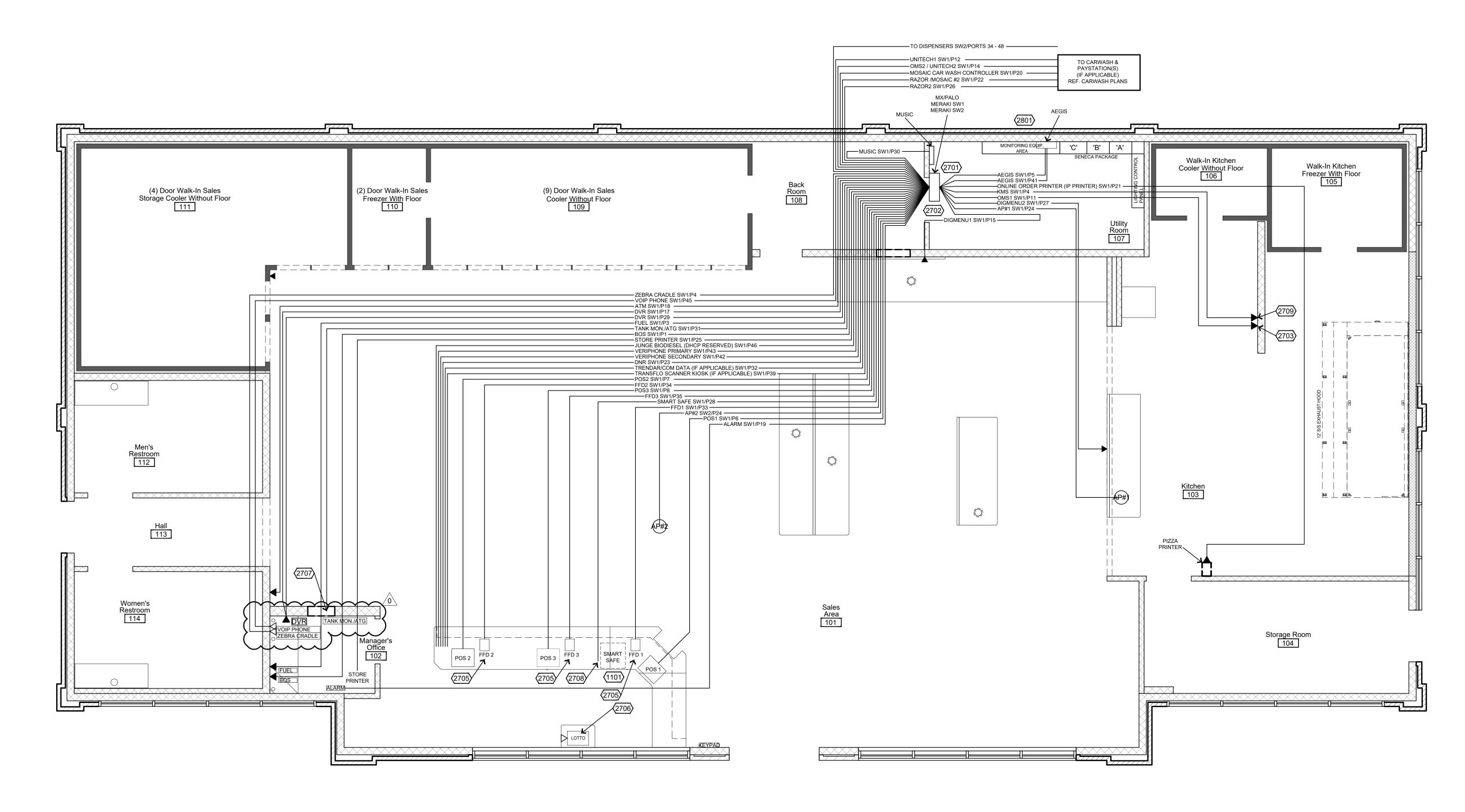
PLACE ALL CAMERAS IN CORNERS OF CEILING TILE, NOT IN THE CENTER

## NOTE:

\*ELECTRICAL CONTRACTOR TO RUN ALL POWER AND VIDEO WIRING \*ELECTRICAL CONTRACTOR TO TERMINATE ALL POWER WIRING AND ALL ALARM DEVICES. \*CBE INSTALLS ALL CAMERAS. \*CBE WILL TERMINATE ALL VIDEO CAT 6e WIRING.



blepment Services Departr Lee's Summit Missouri 04/16/2024



# Wiring Schematice Plan - Phone/Data 1/4"=1'-0"

## Keyed Construction Notes Key

#### detion notes — Reyea construction

Division 11 - Specialties

(1101) UNDERCOUNTER SAFE

#### **Division 27- Communications**

- (2701) ELECTRICIAN TO PROVIDE KEYSTONE
- 2702 SAGENET TO PULL ALL CABLING
- PIZZA DELIVERY STATION: MOUNT PHONE JACK @ 60"AFF. SECOND & THIRD JACKS FOR CREDIT CARD & CORDLESS PHONE. CAT 6e WIRE. SEE SHEETS E-101 & AQ-401.
- CREDIT CARD MACHINE: PULL WIRE THRU PVC CONDUIT BENEATH SLAB FROM SAGENET
- 2706 LOTTO MACHINE: SERVICE SET UP BY CASEY'S SCHEDULE
- TANK MONITOR/ATG WIRING TO DROP INTO WALL CAVITY TO BENEATH VEEDER ROOT
- (2708) INSTALL JACK FOR SMARTSAFE WIRING ONTO CABINET PARTITION
- (2709) KMS CABLING TO HAVE 20'-0" COIL TO BE LEFT ABOVE CEILING

## **Keyed Construction Notes**

Division 28 - Electronic Safety and Security

(2801) COORDINATE SERVICE ENTRANCE UNDERGROUND INSTALLATION.

## **Phone Line Notes**

 $\underline{\text{\# OF PHONE LINE PER STORE:}}$ 

STORES NOT OFFERING PIZZA DELIVERY - 2 LINES STORES OFFERING PIZZA DELIVERY - 3 LINES (ALL NEED OUTLETS)

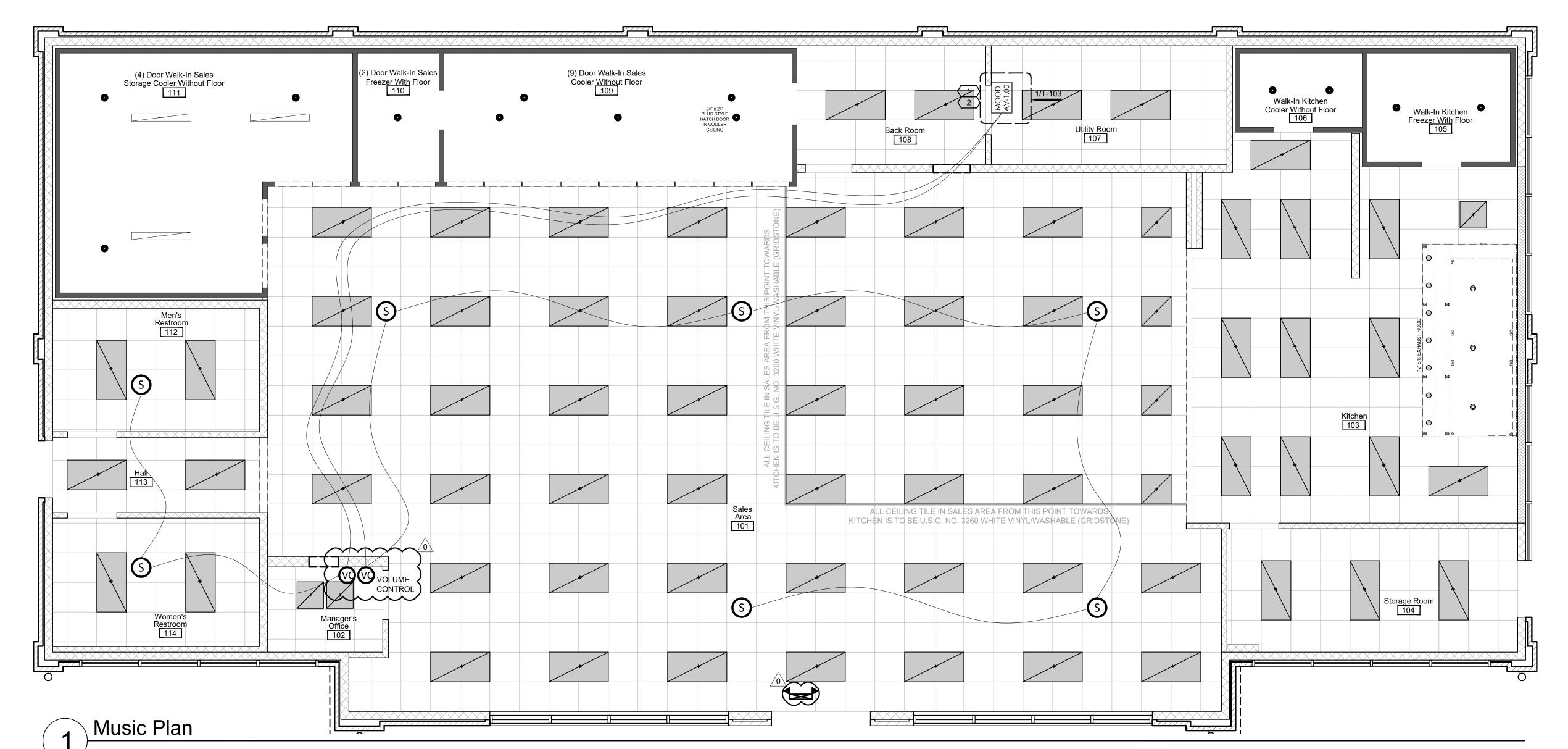
PHONE 1 PHONE BASE - MANAGER'S OFFICE

PHONE 2 PIZZA - PIZZA CARRYOUT NUMBER. LOCATED ON END OF KITCHEN DIVIDER WALL. LOCATE @ 60"A.F.F. IN STORES WITH DELIVERY.

PHONE 3 OUTLET ONLY - PIZZA WALL JACK (HUNTLINE NUMBER)

Cases	s Cas	sey's	Caseys
One Co	CASEY'S CONSTI		
	TYLE STORE V.01 AT ROOF	PUBLISHED: 03/15/23 REVISED ON:	COMMUNICATIONS WIRING SCHEMATIC & DETAILS
AWING INFORMATION: 2023 - U4 - V.01 AWN BY: Arlon Goforth III	CHECKED BY:		T-102





#### Notes

SPEC NO. C70 08.18.14, pg. 1/1

MOOD:

Volume

No. C70-3015

MOOD:

No. C70-3014

Model No's. C70-3014 or C70-3015

- (1) DUPLEX 110V/15a "CLEAN" POWER CIRCUIT AND NETWORK ACCESS AT HEADEND/AMPLIFIER LOCATION.
- (1) 1" CONDUIT STUB-UP WITH PULL STRING TO OPEN CEILING ABOVE FROM HEADEND/AMPLIFIER LOCATION FOR 18/2 SPEAKER WIRE RUNS FROM VOLUME CONTROLS/SPEAKERS TO AMP.

STRING SHALL BE REQUIRED.

(2) SINGLE GANG JUNCTION BOXES FOR THE (2) VOLUME CONTROLS. EACH SINGLE GANG JUNCTION BOX SHALL REQUIRES A 3/4" CONDUIT STUB-UP WITH PULL STRING FOR EACH VC FOR 18/2 SPEAKER WIRE FROM THE AMPLIFIER AND OUT TO THE SPEAKERS. - IF A SMALL INTERCONNECTION BETWEEN THE SINGLE GANG JUNCTION

BOXES CAN BE PROVIDED, THEN ONLY (1) 3/4" CONDUIT WITH PULL

AUDIO AND VIDEO EQUIPMENT LEGEND								
SYMBOL	DESCRIPTION	notes: provided by owner	NOTES:	TAP SETTING				
<b>③</b>	MOOD XD521TWH CEILING SPEAKER		SPEAKER.	5 WATTS				
0	LOWELL VOLUME CONTROL 46" AFF							

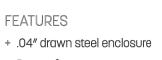
NER'S ELECTRICAL CONTRACTOR TO PROVIDE (1) 15A/120v POWER DEDICATED .EX OUTLETS.

## MOOD:SYSTEMS

400D SPEAKERS & SUB WOOFER he Mood XD Series flush-mount speakers are tuned to deliver ptimum low and high frequencies for a truly precise and balanced oundstage. The XD design ensures extended yet accurate bass esponse, smooth mid-range response and extended highrequency response to create a lifelike musical experience.



Mood XDA521T speakers are 9.25"



Easy installation, new and retrofit

Bass reflex ABS baffle

· 70/100 volt transformer

Tile Support Included

Paintable grille

8 Ohms Thru

P/N: C10-2917

INTERPRET GEOMETRIC TOLERANCING FEE MATERIAL 16 GA CRS

C10-2917

PROPRIETARY AND CONFIDENTIAL



UL1480 and 2043 listed fo and XD6202T	r following models: XDA521T,	XD6202T/F-6.5" (165mm) polypropylene cone woofer, 1" silk dome tweeter	XD8201T-SUB -8" polypropylene cone woofer, 1.5" coil on Nomex former	
SPECIFICATIONS	XDA521T	XD6202T/F	XD8021T-SUB	
FREQUENCY RESPONSE	80 Hz-18 kHz	65 Hz-25kHz	40 Hz-200 kHz	
POWER HANDLING	20 watts RMS	140 watts continuous 70 watts continuous pink noise	200 watts continuous 100 watts continuous pink noise	
SENSITIVITY	88 dB	89 dB SPL 1W 1m	92 dB SPL 1W 1m	
NOMINAL IMPEDANCE	8 ohms	8 omhs	8 omhs	
NOMINAL COVERAGE	110°	110°	180°	
70 VOLT WATTAGE TAPS	.625,1.25,2.5,5,10	60W, 30W, 15W, 7.5W, 3.8W 8 ohms direct	60W, 30W, 15W, 7.5W, 3.8W, 1.9W 8 ohms direct	
100 VOLT WATTAGE TAPS	1.25,2.5,5,10	60W, 30W, 15W, 7.5W, 3.8W 8 ohms direct	60W, 30W, 15W, 7.5W, 3.8W, 1.9W 8 ohms direct	
LF DRIVER	5.25" PP cone, butyl rubber surround			
HF DRIVER	.5" sealed ferrofluid soft dome, NeFeB magnet			
DIMENSIONS	9.25" diameter x 7" deep	10.2" Diameter x 8" Deep	15" Diameter x 12" Deep	
WEIGHT	5.21 lbs.	9.8 lbs.	15.5 lbs.	
COLORS	White and Black	White and Black	White Only	
CUTOUT SIZE	9.11 in	8.8 in	13.4 in	

Volume Control Specifications Scale: N/A

**LOWELL Manufacturing Company** 

Mood Media Model No's. C70-3014 (stainless steel) and C70-3015 (white) are ETL Listed, compact, easy-to-install controls that provide

precise level adjustment of single or multiple speaker lines. Each

control mounts within a single gang E.O. box with minimum depth requirement of 2.125 inches and includes easy-connect, phoenix

style, plug-in screw termination strips for prewire convenience with

• Standard (one piece) wall plate in stainless steel or white plastic.

The volume control shall be Mood Model No. \_\_\_\_\_ by Lowell Manufacturing Co. with a power rating of 25 watts and attenuation of 3dB per step. It shall be ETL Listed and shall mount in an E.O.

box with minimum inside dimensions of 1.875 in.W x 2.688 in.H x 2.125 in.D. It shall include a standard style wall plate with \_\_\_\_\_

Model No's. C70-3014 or C70-3015 (33dB total)

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wire capacity up to 14-gauge. Attenuation is 3dB per step.

2.125 in. depth fits standard E.O. boxes

 25W power rating 3dB per step attenuation

A & E Specifications

(stainless steel, white) finish.

Mounts all E.O. boxes noted:

Lowell P1X surface box

(minimum opening size 1.875 in.W x 2.685 in.H x 2.125 in.D)

 4"Sq x 2.125"D with raised mud ring (RACO 232, 235 or equiv.) • 1-gang handy box 2.125"D (RACO 670, 671, 678 or equiv.)

Wiring and Schematic:

Models: C70-3014, C70-3015

DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.

CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100 03/15/23 2023 "U4" STYLE STORE V.01 MUSIC PLAN **FLAT ROOF** 2023 - U4 - V.01 T-103 Arlon Goforth III

Shelf Detail ✓ Scale: N/A

0 0 0

DESCRIPTION

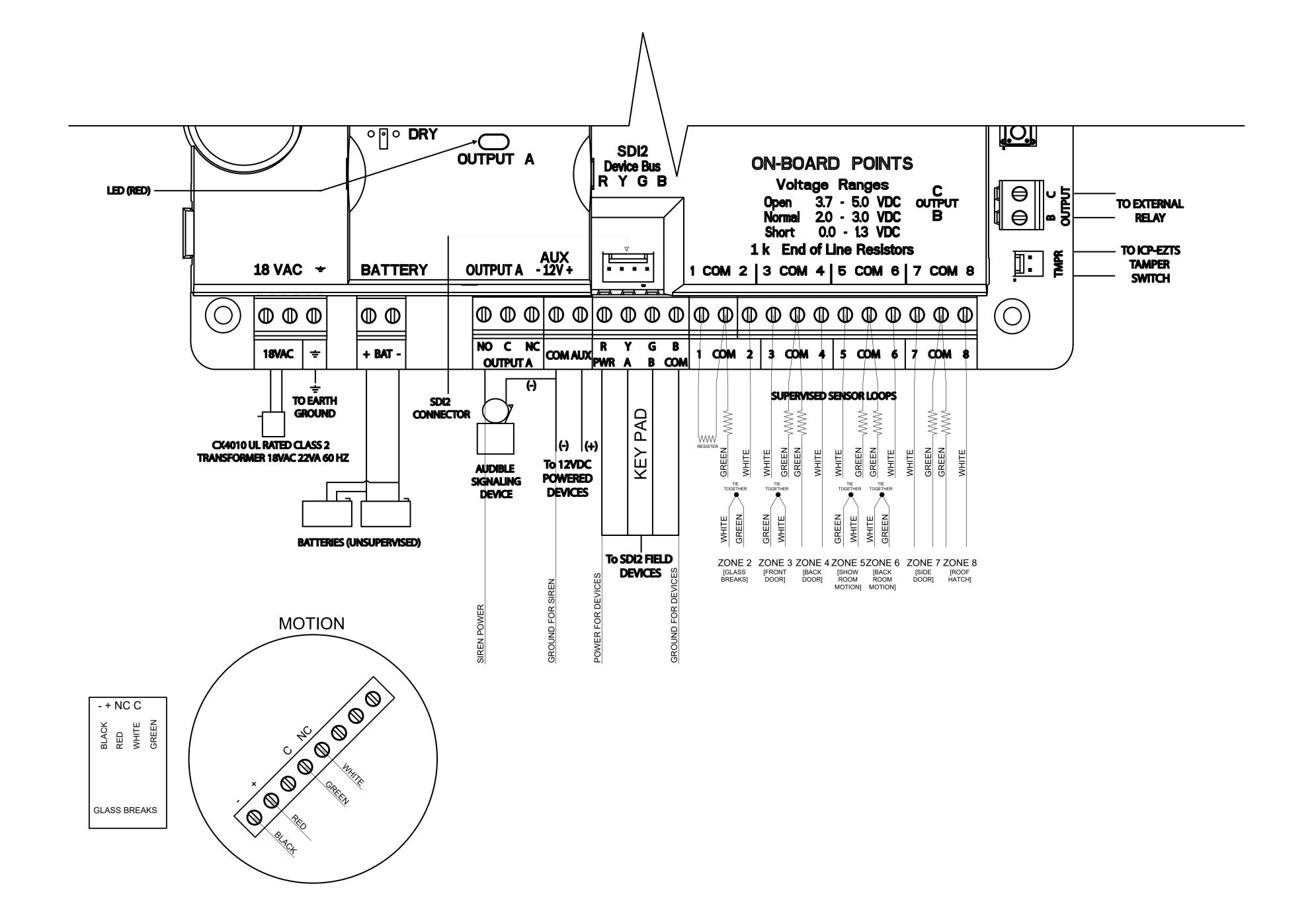
Speakers & Sub Woofer Specifications <sup>/</sup> Scale: N/A

## **General Construction Notes**

- 1. USE 4300 TRANSFORMER INTERFACE IN PLACE OF 1321 WHEN POWER LINE CARRIER DEVICES ARE BEING USED (SEE INSTRUCTIONS FOR CONNECTIONS)
- 2. USE 22 GUAGE WIRE [STRANDED & SHIELDED] WITH THESE COLORS BELOW REQUIRED

USE GREEN WIRE FOR LOW USE WHITE WIRE FOR HI USE RED WIRE HOT WIRE WHEN NEEDED USE BLACK WIRE FOR GROUND DO NOT USE THE GROUND CABLE IN WIRE

- 3. MAXIMUM LOOP RESISTANCE: (EACH ZONE) 300 OHMS (PLUS EOLR) RESPONSE, ZONES 1-8: 10, 350, OR 700 MSEC (PROGRAMMABLE)
- 4. THIS DEVICE COMPLIES WITH PART 15 OF FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEIVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.
- 5. COMPLIES WITH FCC RULES, PART 68. FCC REGISTRATION NO. AC398U-68192-AL-E RINGER EQUIVALENCE: 0.7B.
- 6. FOR COMPLETE INFORMATION SEE INSTRUCTIONS N7526V4
- 7. THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 74 (NATIONAL FIRE PROTECTION ASSOC., BATTERYMARCH PARK, QUINCY, MA 02269). PRINTED INFORMATION DESCRIBING PROPER INSTALLATION, OPERATION, TESTING, MAINTENANCE, EVACUTION PLANNING AND REPAIR SERVICE IS TO BE PROVIDED WITH THIS EQUIPMENT.
- 8. GROUND PANEL ONLY DO NOT USE GROUND WIRES FOR DEVICES IN PANEL



Security Wiring Schematic and Details

Diagram - Not To Scale

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