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)

SECURITY SYSTEM WIRING SCHEMATIC

T-601 SECURITY WIRING SCHEMATIC & DETAILS

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

ARCHITECT

Voice: 515.381.5732

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 Voice: 402.493.4800, Fax: 402.493.7951

ELECTRICAL ENGINEER

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

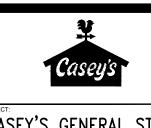


Casey's General **Store Site**





Not all roads shown.



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

G-001

COVER

SHEET INDEX &

CONTACT INFO

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

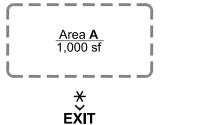
3. In the event of an additional robbery where the Police Department's recommendations have not been implemented from a previous robbery, grounds may exist for revocation of the business license.

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

SOUTH STREET

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

Code Plan Legend



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

Code Plan Keyed Notes

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

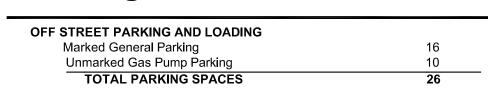
JURISDICTION:

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



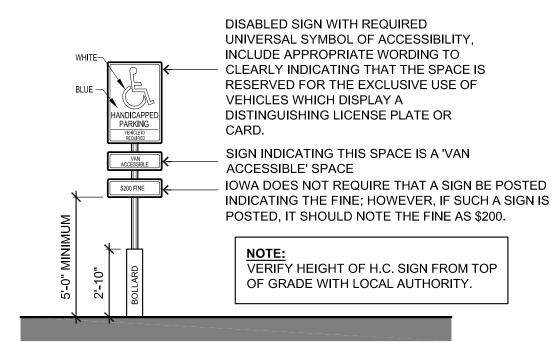
REQUIRED HANDICAP PARKING [ADAAG] 1: 25 Required Parking Spaces (Van Accessible)

PROVIDED HANDICAP PARKING =1 (VAN ACCESSIBLE) LOADING BERTH

SIGNAGE REQUIREMENTS

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

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



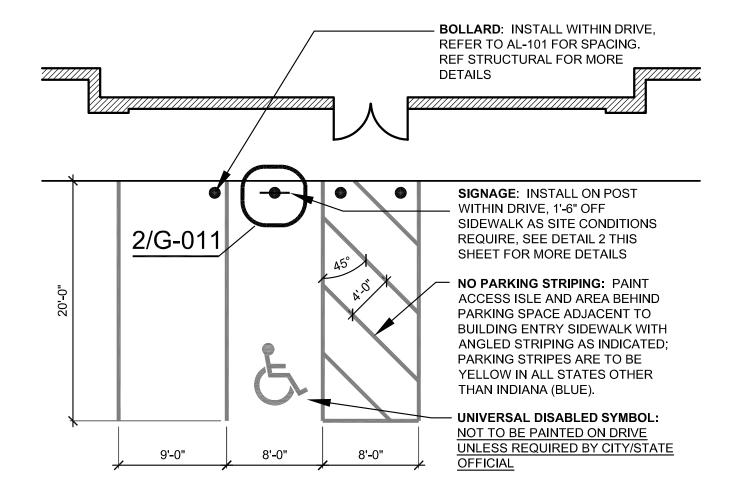
Disabled Parking Signage

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)

Retail Sales & Fuel Dispensing Group M - Mercantile

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
	4 / 401	4.4051
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

Fire Resistive Requirements (*Table 601*)

that require separation.

		1113	
Structural Frame		0	
Bearing Walls	Exterior	0	
	Interior	0	
Non-bearing Walls	Exterior	Table 602	
	Interior	0	
Floor Construction		0	
Roof Construction		0	

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 cf	92

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	PROVIDED
MENS (31 Occupants) Water Closets Lavatories	1 / 500 1 / 750	1	1
Urinal WOMENS (31 Occupants)	17730	0	1
Water Closets Lavatories	1 / 500 1 / 750	1 1	2
OTHER FIXTURES Drinking Fountain	17700	1	0*
Service Sink		1	1

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

Fire Protection (IFC)

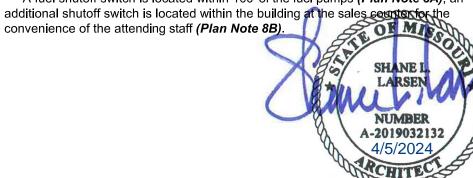
Portable Fire Extinguishers (Section 906)

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).





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 SLL

07164.057

G-011

VERIFY ALL SIGNAGE WITH SIGN PERMITS

Canopy										
					Dimensions					
Sign #	Sign	Туре	Location	Illumination	Bottom	Тор	Width	Height	Area Ft ²	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

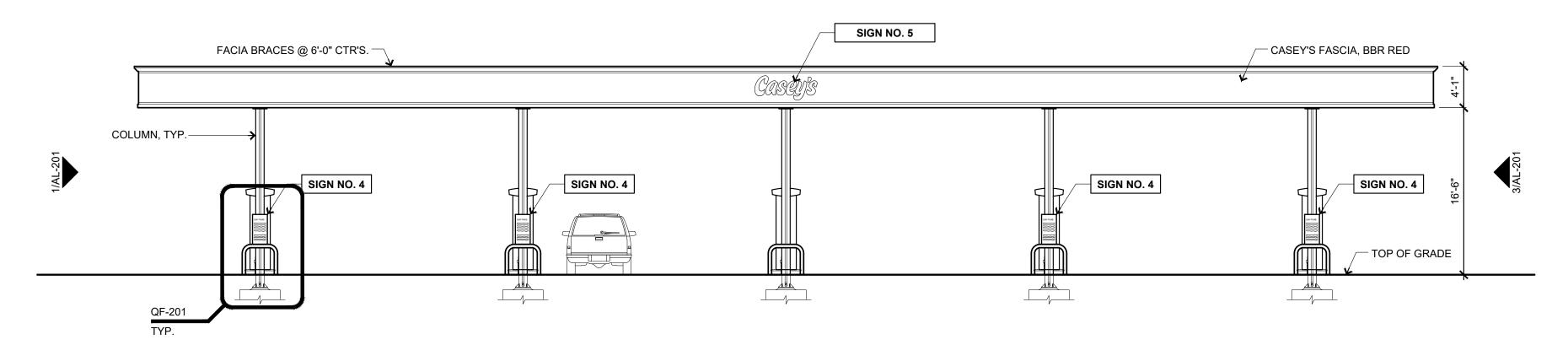
1. RELATED SHEETS: FOR ADDITIONAL INFORMATION NOT DIRECTLY REFERENCED, SEE THE FOLLOWING SHEETS:

Sign Packet FOR SIGNAGE SCHEDULE AND NOTES

G-001 FOR GENERAL PROJECT NOTES AL-101 FOR GENERAL SITE PLAN

CASEY'S FASCIA, BBR RED

- 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.

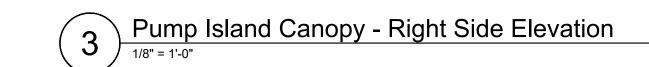


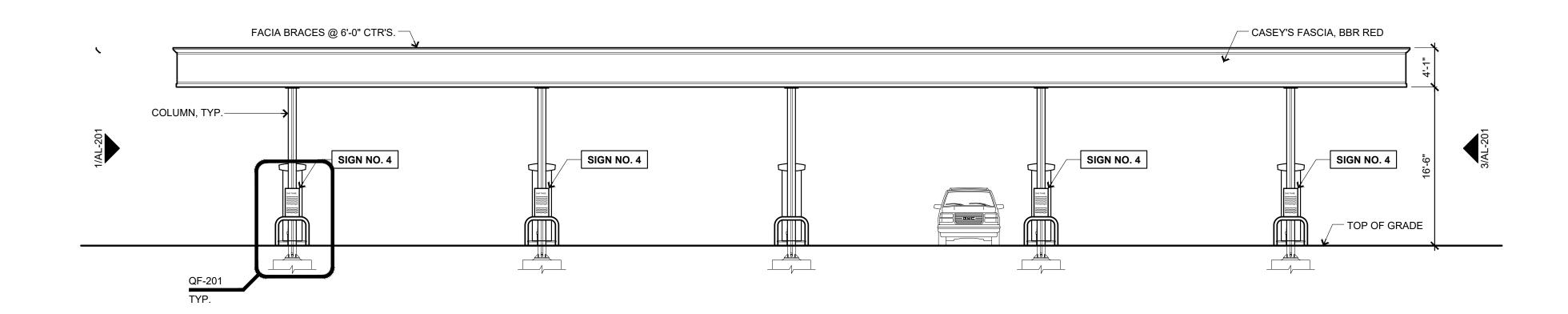
COLUMN, TYP.-SIGN NO. 4 SIGN NO. 4 STORE SIDE STREET SIDE

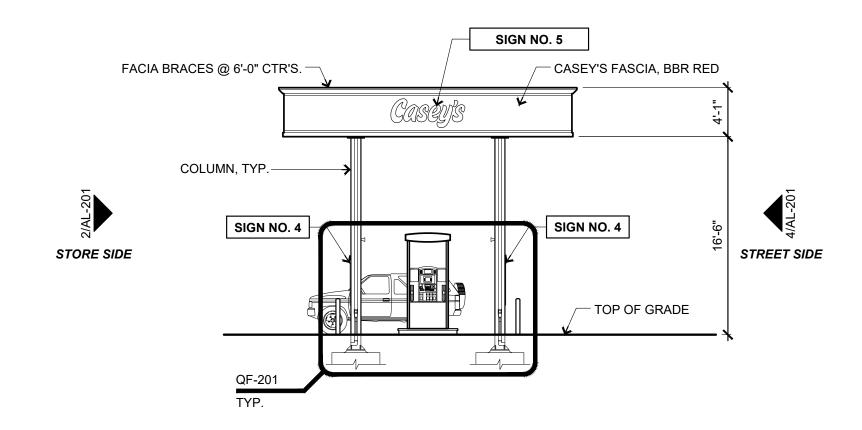
FACIA BRACES @ 6'-0" CTR'S. -

Pump Island Canopy - (Street Side)

1/8" = 1'-0"







Pump Island Canopy - Left Side Elevation

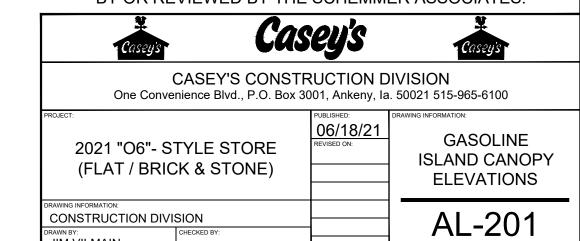
Pump Island Canopy - (Store Side) QF-201 (5) (6) **TOK** (3) 6 10 (3) 6 **50K** 3 6 10 (3) **6 ► ► 3** 5 2 6 (6)**→•○k** (3) 6 **→ 10 k** 3 5 4 Canopy Layout Plan

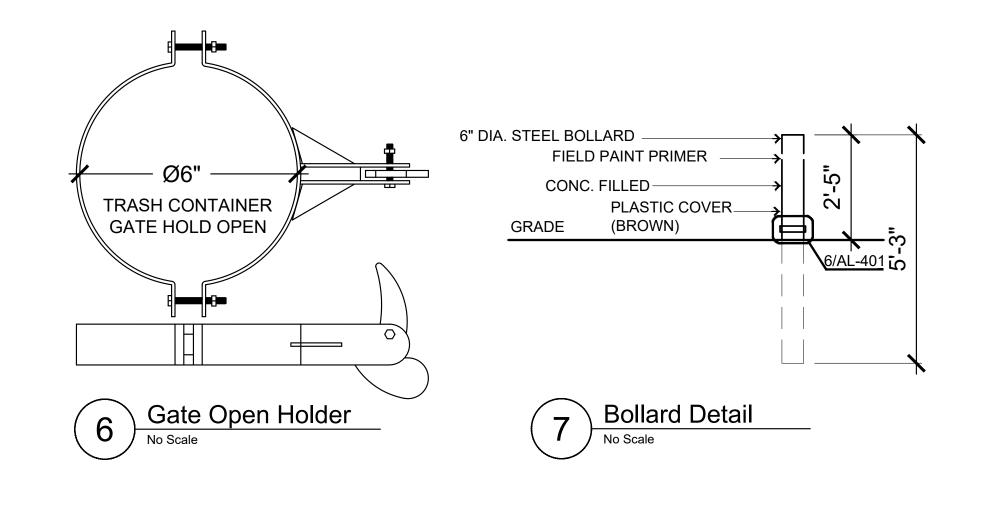
Keyed Canopy Layout Plan Notes

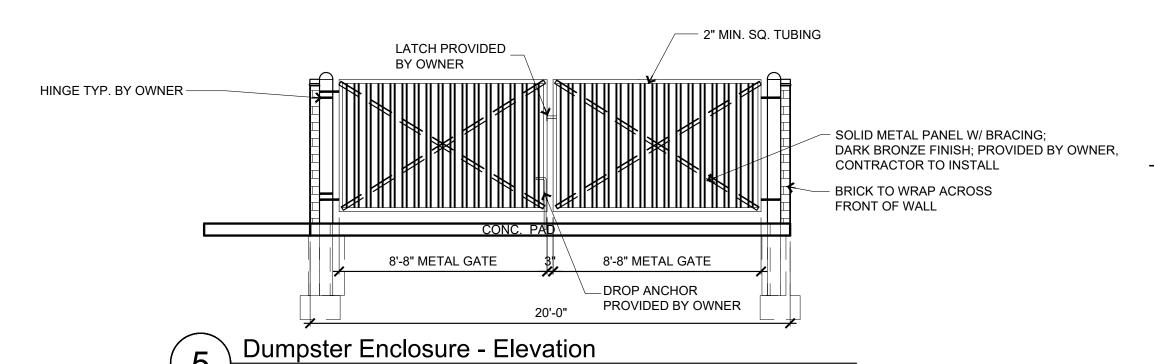
1 FUEL ISLANDS

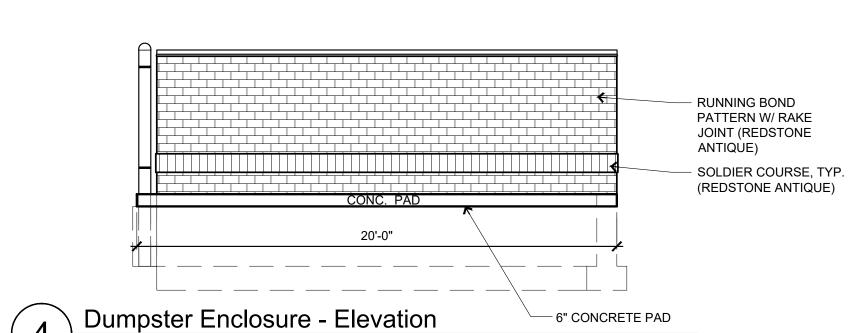
- 2 FUEL DISPENSERS: SUPPLIED BY OWNER
- (3) CANOPY COLUMN: SUPPLIED BY CANOPY MFG.
- 4 EDGE OF CANOPY: ABOVE
- 5 STEEL GUARD PIPE: SET INTO CONC SLAB AS INDICATED IN DETAIL ELEVATIONS (2 PER ISLAND)
- 6 INTERNAL DOWNSPOUTS: ROUTE THROUGH COLUMNS AND UNDERGROUND TO STORM SEWER OR DETENTION IF APPLICABLE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

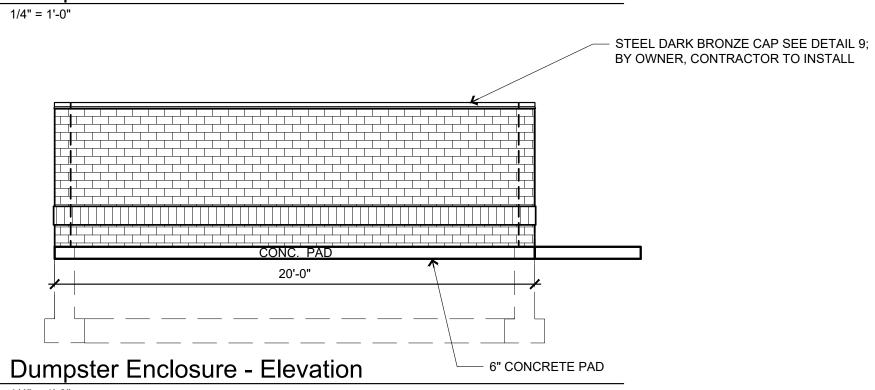
DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.

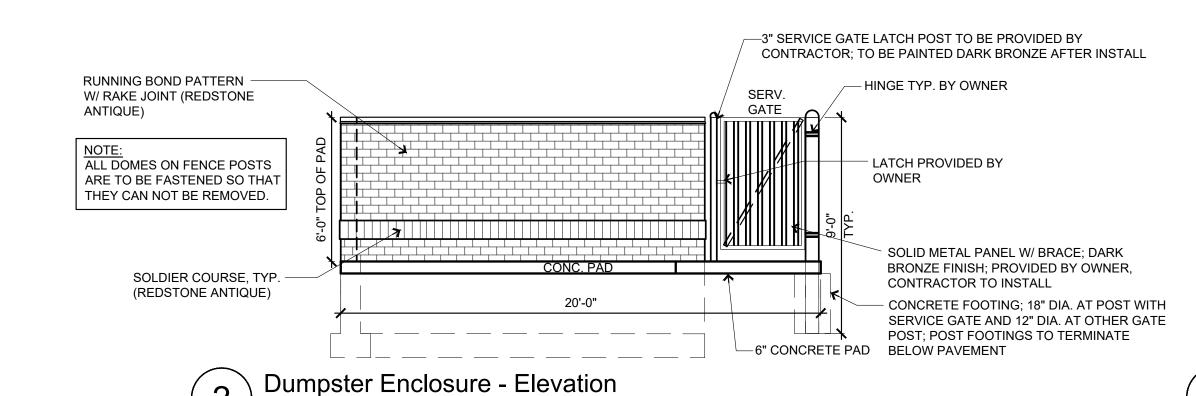


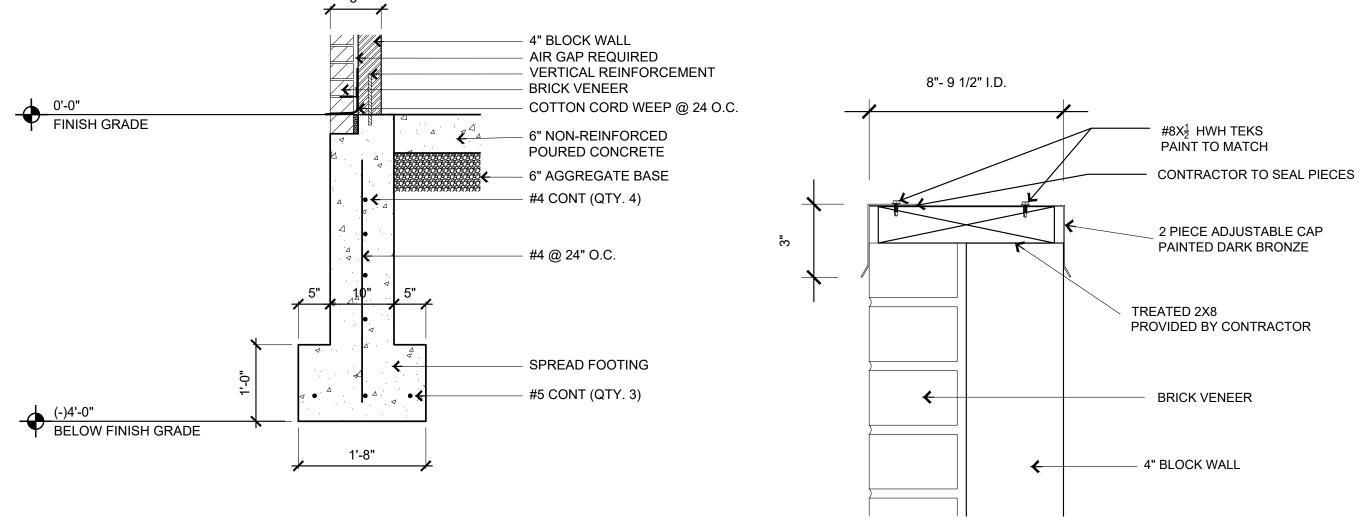


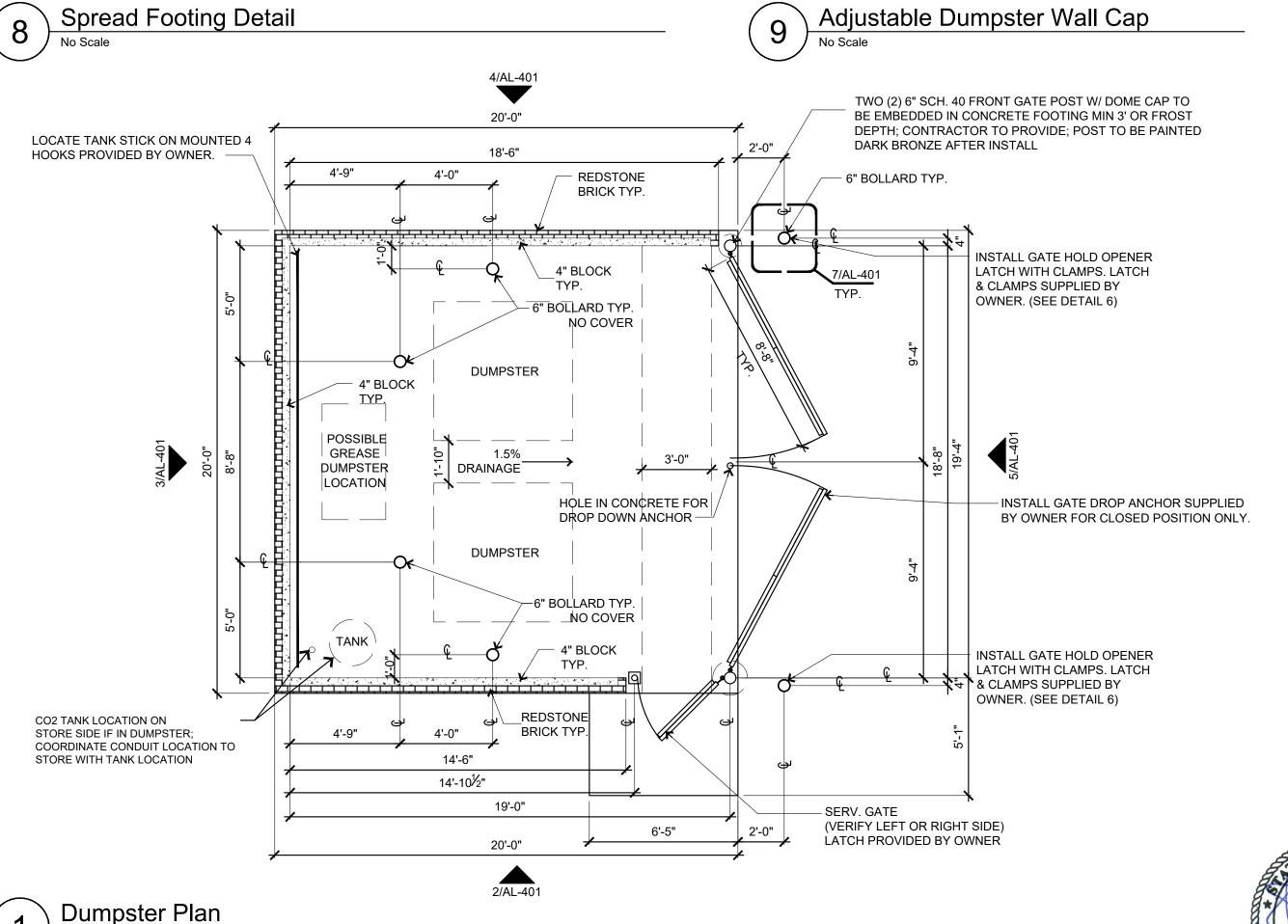












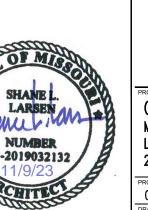
General Notes

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

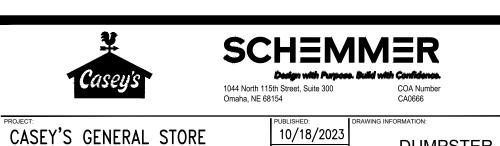
G-001 FOR GENERAL PROJECT NOTES AL101 FOR GENERAL SITE PLAN

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



JLN



PROJECT:

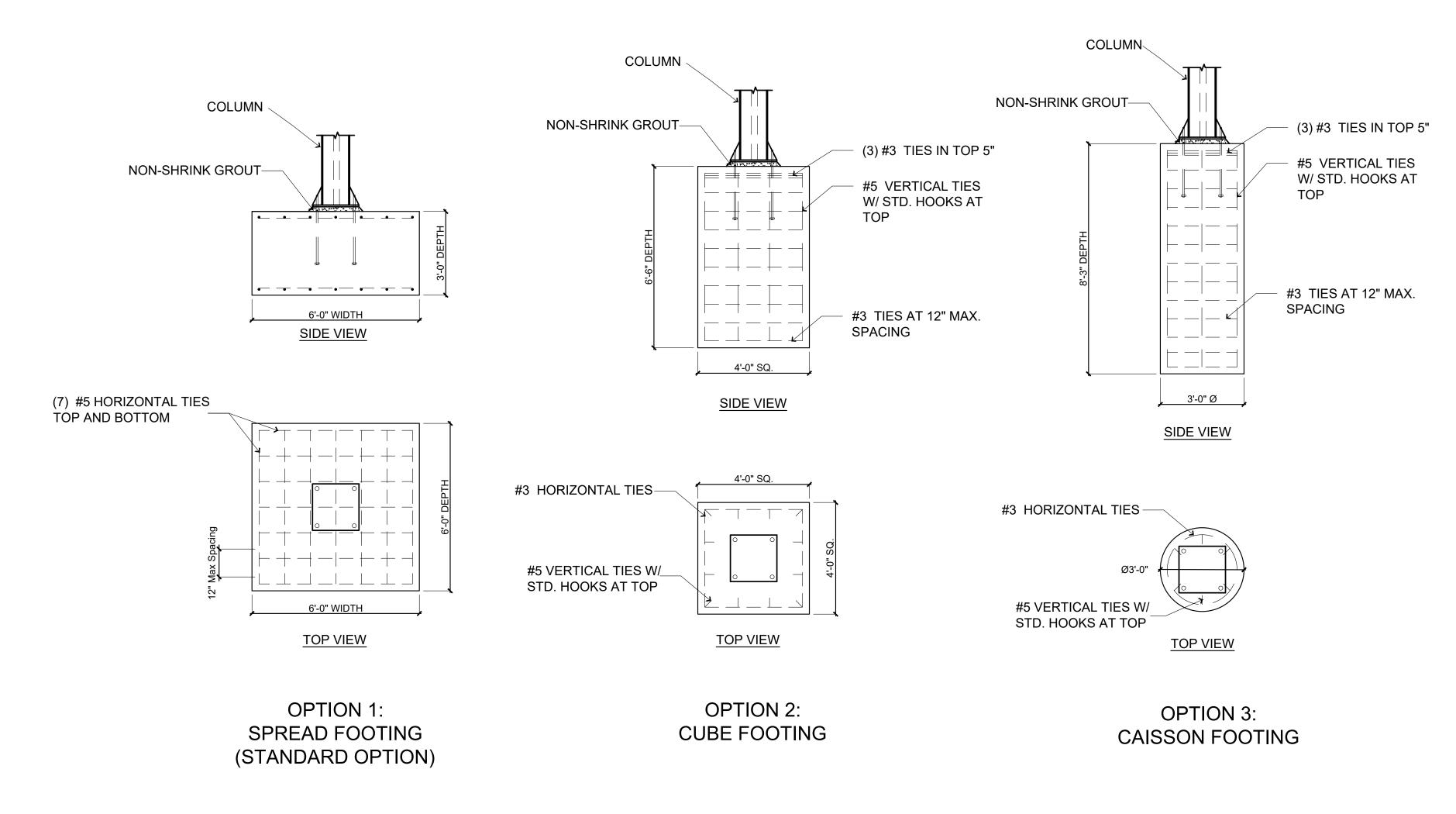
CASEY'S GENERAL STORE
M0-150 & ARBORIDGE DR
LEE'S SUMMIT, M0
2023 - U4 - V.01

PROJECT NUMBER:
07164.057
DRAWN BY:
CHECKED BY:

PUBLISHED:
10/18/2023
REVISED ON:

DVANVING INFORMATION:
DVANVING INFORMATION:
AL-401

54057_CAD\Arch\03_AL-401.dw



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

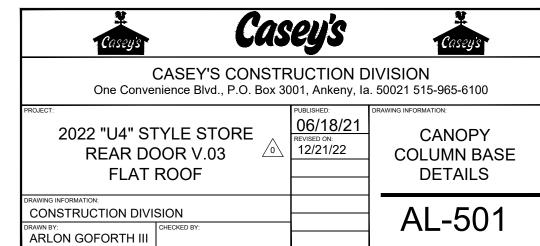
Construction Notes

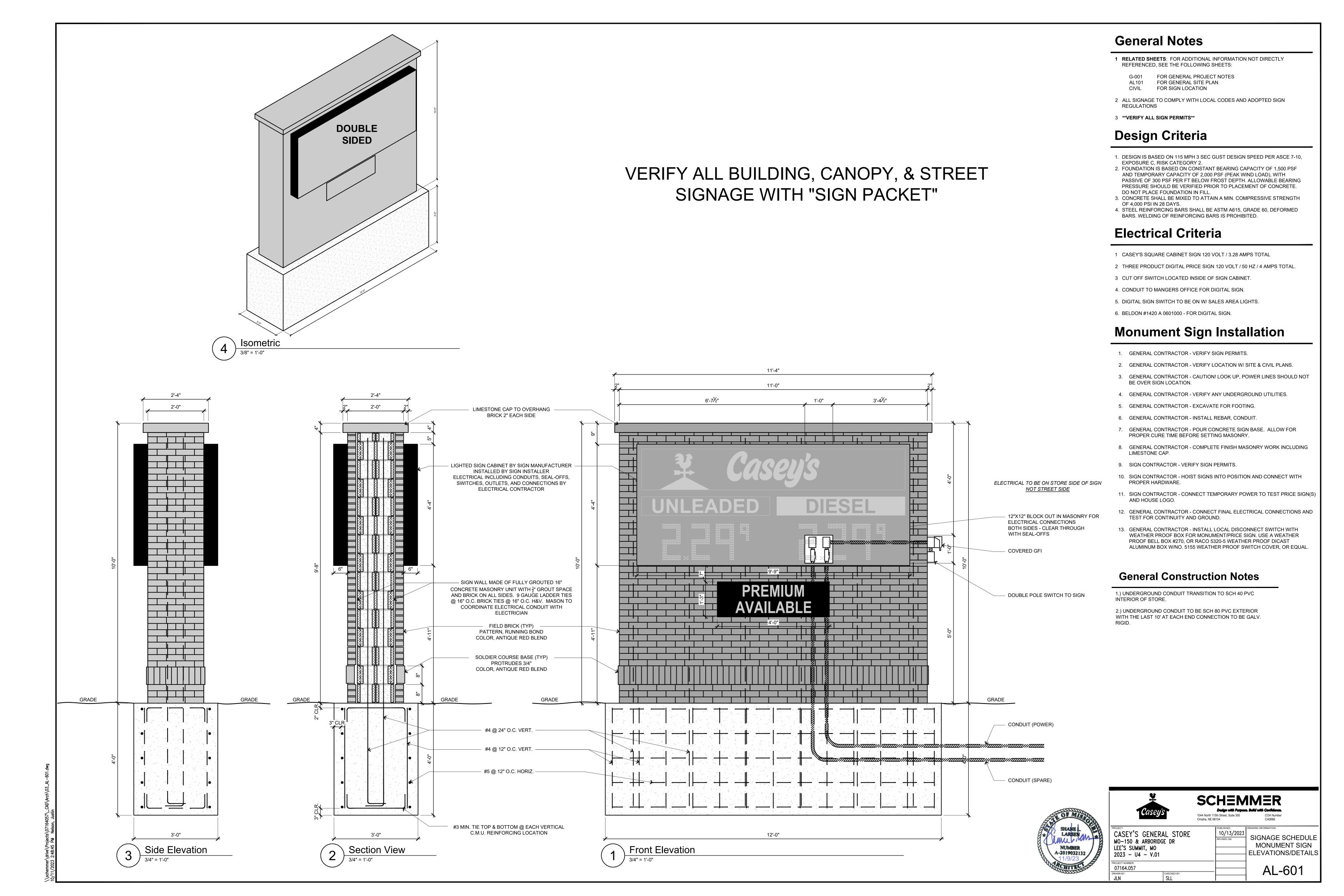
1) FOOTING HEIGHT TO BE VERIFIED.

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.





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)
- 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

(608) OFFICE COUNTER AND WALL SHELF, GRAPHITE TWILL COLOR; SEE A-402, DETAIL 3.

- WITH EQUIPMENT. FIRE RESISTANT BLOCKING TO BE USED IN KITCHEN HOOD AREA. RESTROOM PARTITION BACKING. ENTIRE 16" STUD CAVITY IS TO BE SHEATHED WITH
- RECESSED BRACING & 1/2" PLYWOOD.
- (609B) 3/4" PLYWOOD BACKING FOR MONITORS.

INSTALLATION OF LADDER BRACKET.

- SECURITY LIGHT BRACKET (BACKING NOT REQUIRED). (INSTALL BRACKET TO SHEETING 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)

(609F) LADDER BRACKET: PROVIDE 2X6 WOOD BLOCKING BEHIND SHEATHING FOR

- EXTERIOR SIGNAGE: PROVIDE 2x6 WOOD BLOCKING BEHIND SHEATHING FOR INSTALLATION OF ILLUMINATED SIGNAGE, COORDINATE WITH SIGNAGE SHOP DRAWINGS
- 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

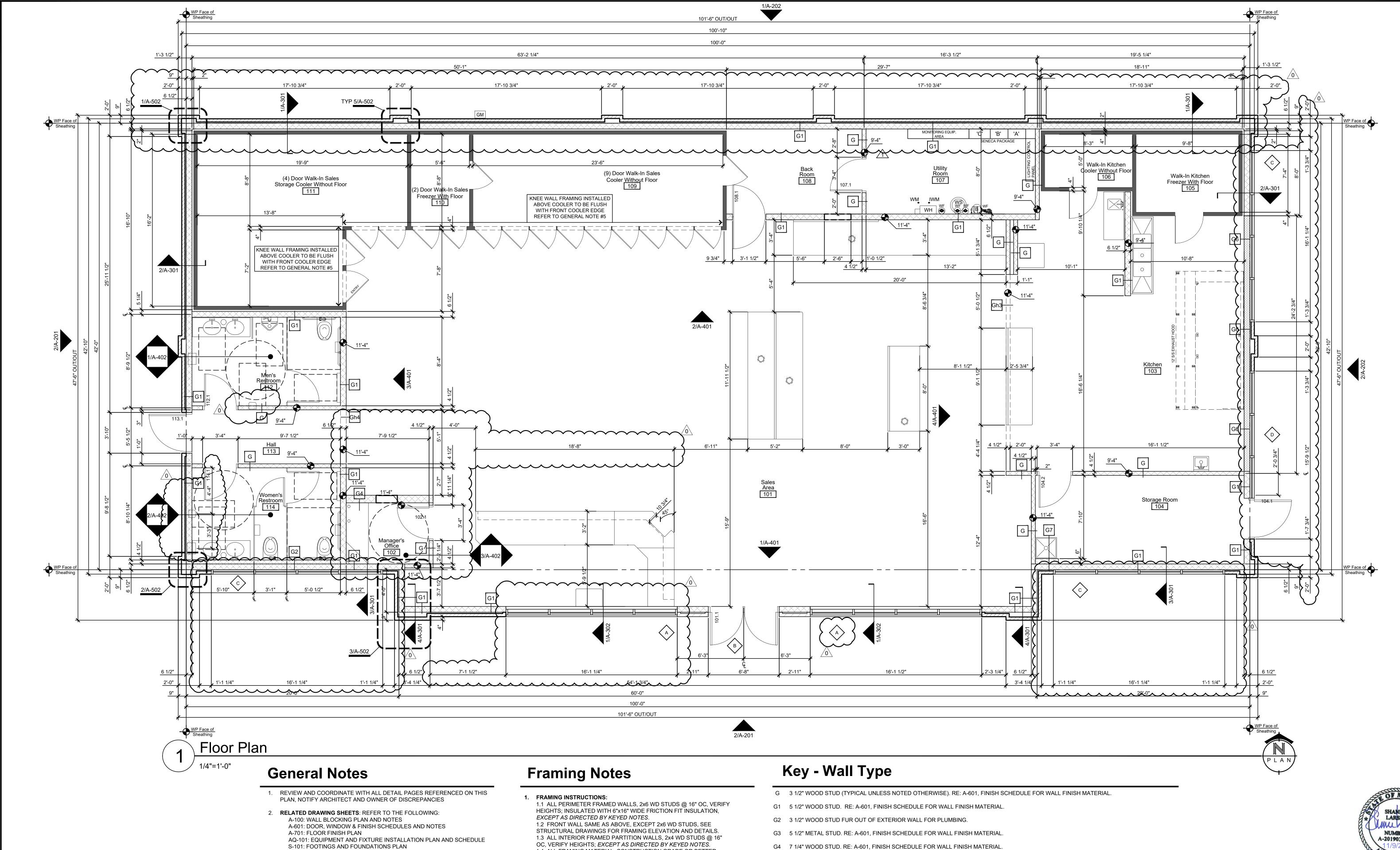
- (2501) RECESSED VEEDER ROOT TANK MONITOR SYSTEM.
- (2601) **ELECTRICAL SERVICE ENTRANCE**: COORDINATE ELECTRICAL DRAWINGS.
- (2602) **ELECTRICAL PANELS:** SEE ELECTRICAL DRAWINGS.
- **DIVISION 27 COMMUNICATIONS** PHONE: INSTALL PHONE JACK IN CASEWORK @ FRONT COUNTER AND IN
 - **DIVISION 28 ELECTRONIC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

WALL @ MANAGER'S OFFICE

DIVISION 26 - ELECTRICAL



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



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.

S-102: FIRST FLOOR BEARING WALL AND SHEAR WALL FRAMING

P-101: COORDINATE WITH UNDER SLAB SANITARY WORK

P-102: COORDINATE WITH UNDER SLAB PLUMBING WORK

WINDOW FRAME ELEVATIONS - REFER TO PLAN SHEET A-601, DETAIL 1

B 7. DOOR TYPES - REFER TO PLAN SHEET A-601, DETAIL 2

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.
- 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.

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PROJECT: CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	0 PUBLISHED: 10/13/2023 REVISED ON:	PLOOR PLAN

A-101

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CEILING FINISHES SCHEDULE

(4) Door Walk-In Sales

Storage Cooler Without Floor

N N

ROOM	HEIGHT	2' x 2' CEILING PANELS W/1HR. FIRE RA	TED GRID (WHITE)	APPROVED	REMARKS AND COMMENTS	
SALES AREA, 101	10'-10"	U.S.G. NO. 2115 WHITE	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 10)			Х
MANAGERS OFFICE, 102	8'-6"	U.S.G. NO. 2115 WHITE	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 10)			Х
KITCHEN, 103	9'-2"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 5)	USDA		Х
STORAGE, 104	9'-2"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 5)	USDA		Χ
WALK-IN FREEZER, 105					NO CEILING HEIGHT IN WALK-IN FREEZER	
WALK-IN COOLER, 106					NO CEILING HEIGHT IN WALK-IN COOLER	
UTILITY ROOM, 107	9'-2"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)				Χ
BACK ROOM, 108	9'-2"	U.S.G. N0.3260 WHITE VINYL/WASHABLE (SHEETROCK LAY IN)				Χ
SALES AREA COOLER, 109					NO CEILING HEIGHT IN WALK-IN FREEZER	
SALES AREA FREEZER, 110					NO CEILING HEIGHT IN WALK-IN FREEZER	
SALES STORAGE COOLER, 111					NO CEILING HEIGHT IN WALK-IN FREEZER	
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		Χ
HALL, 113	8'-6"	U.S.G. NO. 2115 WHITE	(CLASS "A" FLAME SPREAD: 25, SMOKE DEVELOPED: 10)			X
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		X

2) Door Walk-In Sales_l

Freezer With Floor

24" x 24" PLUG STYLE HATCH DOOR IN COOLER CEILING

(9) Door Walk-In Sales

Cooler Without Floor

Room 108

ALL CEILING TILE IN SALES AREA FROM THIS POINT TOWARDS

KITCHEN IS TO BE U.S.G. NO. \$260 WHITE VINYL/WASHABLE (GRIDSTONE)

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)
- 2. 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

| 'C' | 'B' | 'A'

⟨601⟩ →

Utility Room 107

4. NOTE THAT WASHABLE CEILING TILE IS TO BE USED ABOVE THE COFFEE BAR AND ANY FOOD PREP AREA AS WELL.

Walk-In Kitchen

Freezer With Floor

0

0

(901)

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

- 601 PARTITION HEADER, SEE PLAN A-101 FOR LOCATION AND CONSTRUCTION
 - **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' DIFFUSER LOCATION TYP.

2'x2' PERFORATED DIFFUSER TYP.



2'x2' RETURN AIR DIFFUSER TYP.

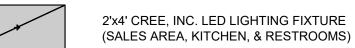
RESTROOM EXHAUST FAN



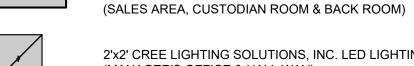
2'X2' DIFFUSER WITH DIVERTER INSTALLED



3-1/2" SLOTTED DIFFUSER TYP. 36" LONG AT FRONT DOOR, 48" LONG IN FRONT OF KITCHEN MENU MONITORS. (LEAVE 2-2' EXTRA CROSS TEE'S FOR SLOTTED DIFFUSERS)



12"x48" CREE LED LIGHTING FIXTURE



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



ELECTRALED, INC. LED LIGHTING FIXTURE (SALES AREA & KITCHEN COOLERS/FREEZERS)





7'-5" Finished Casing OVERHEAD PARTITION BULKHEADS: NOMINAL 2x4 FRAMING, ALIGN WITH ADJACENT PARTITIONS OR AS DIMENSIONED, U.N.O.



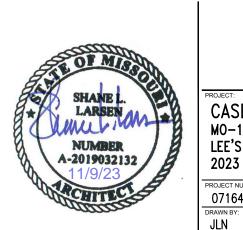
CEILING SPEAKER





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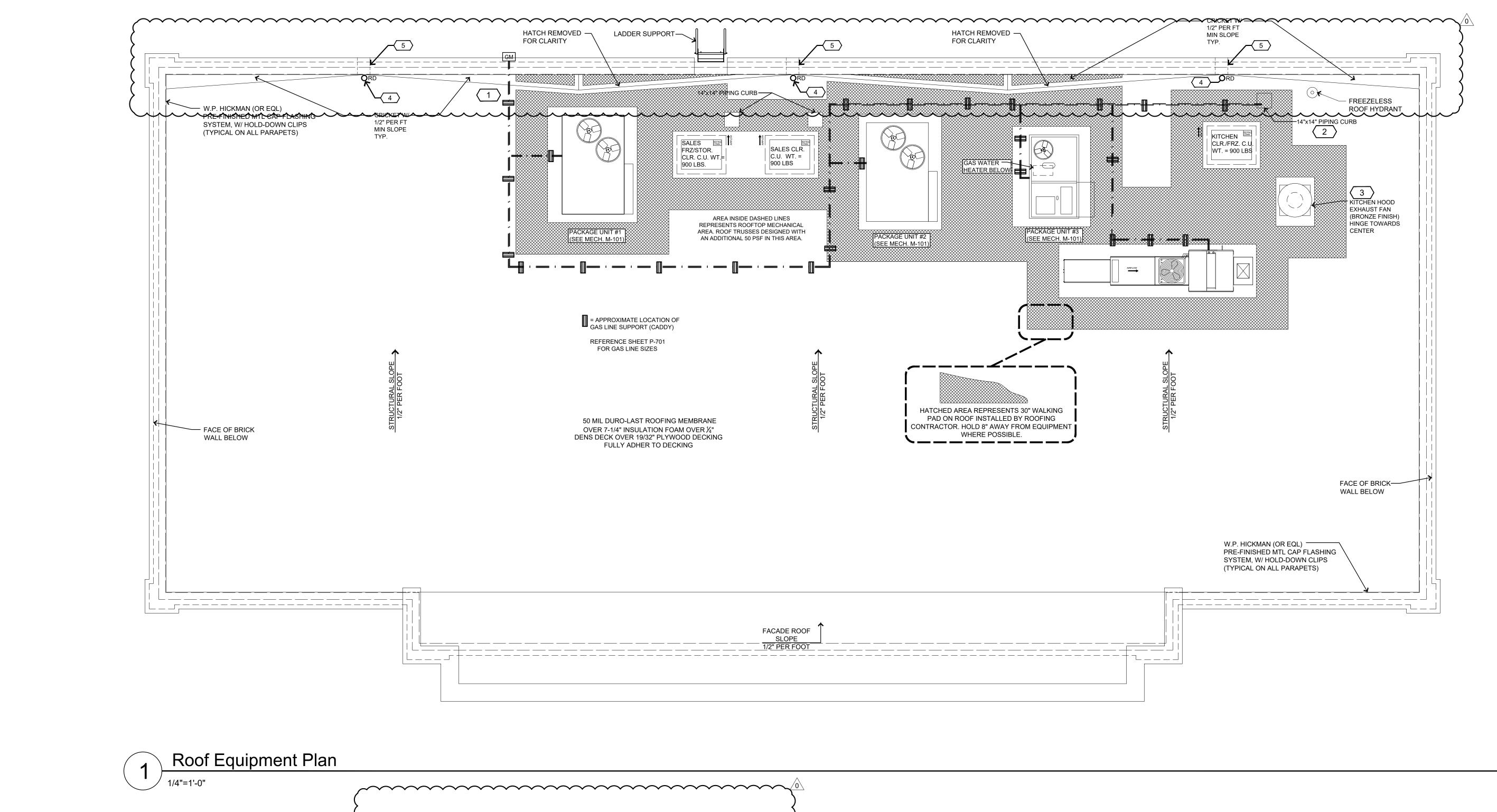
1044 North 115th Street, Suite 300

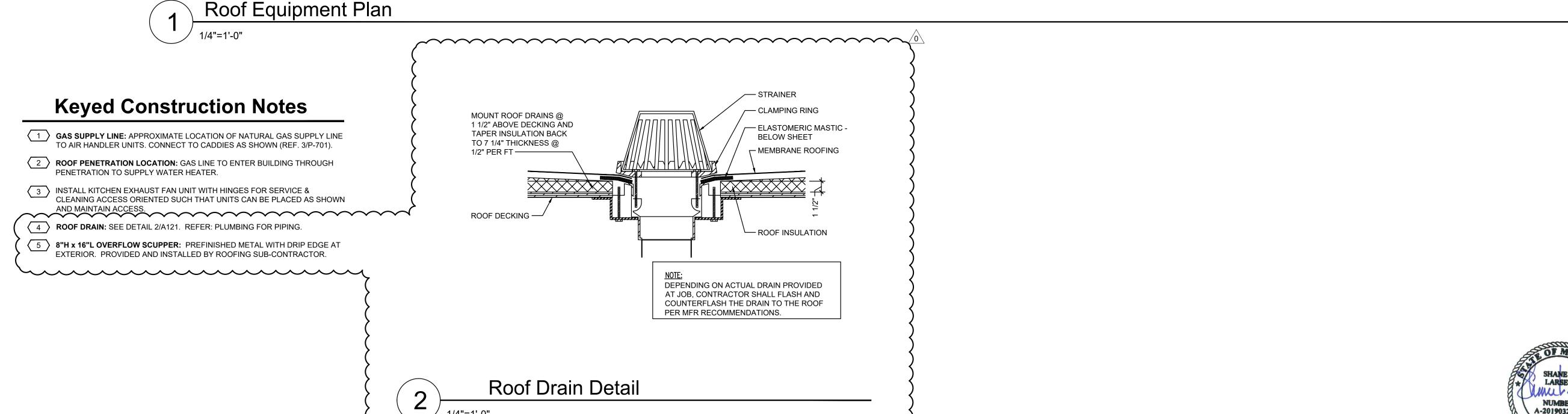
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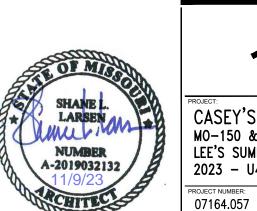
CASEY'S GENERAL STORE 0 10/13/2023 MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01 07164.057

CEILING PLAN A-111



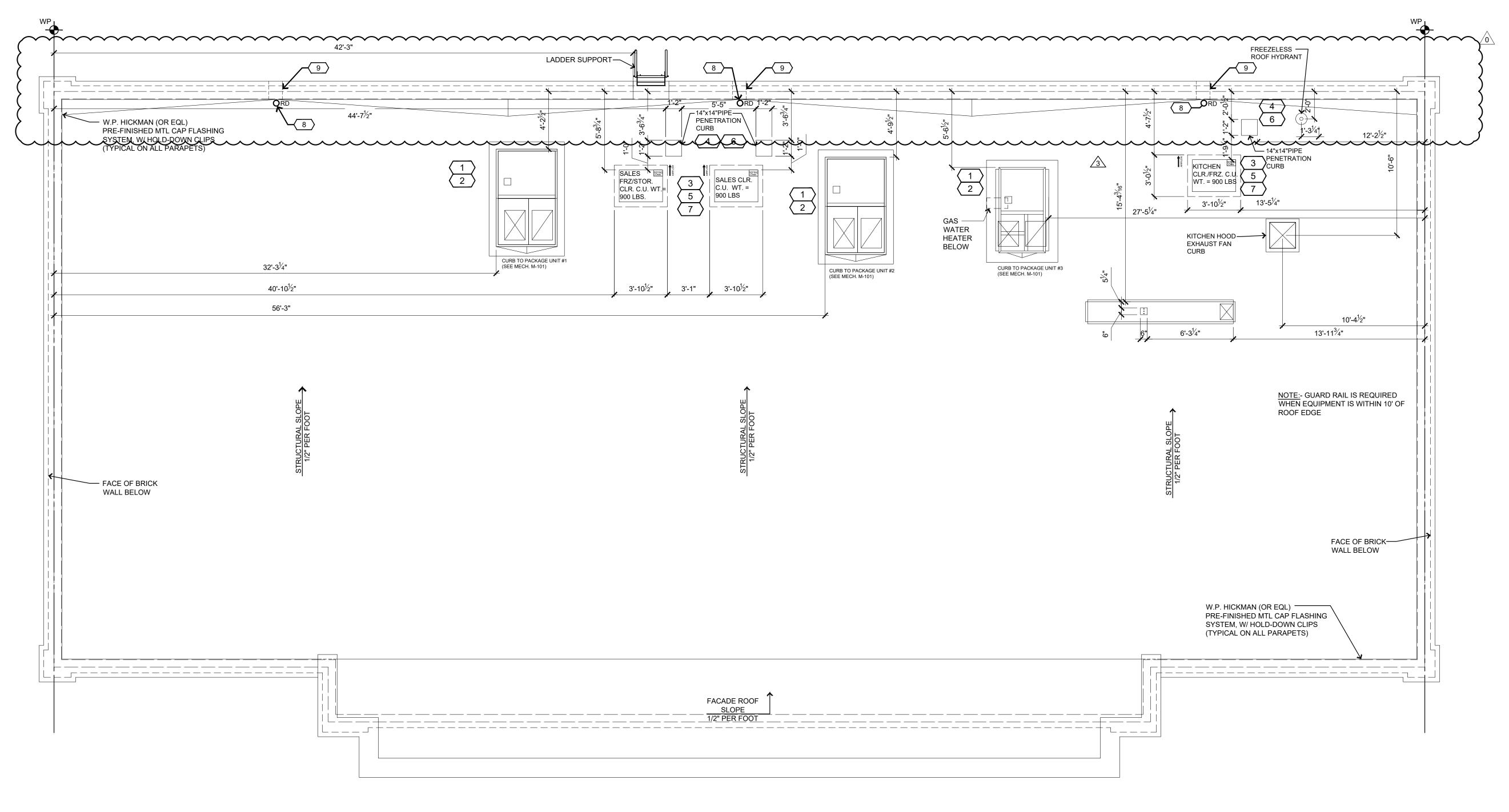






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SEY'S GENERAL STORE -150 & ARBORIDGE DR 'S SUMMIT, MO	0 PUBLISHED: 10/13/2023 REVISED ON:	ROOF EQUIPMENT

A-121

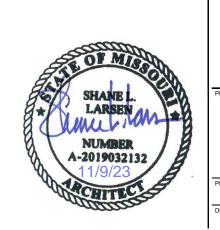




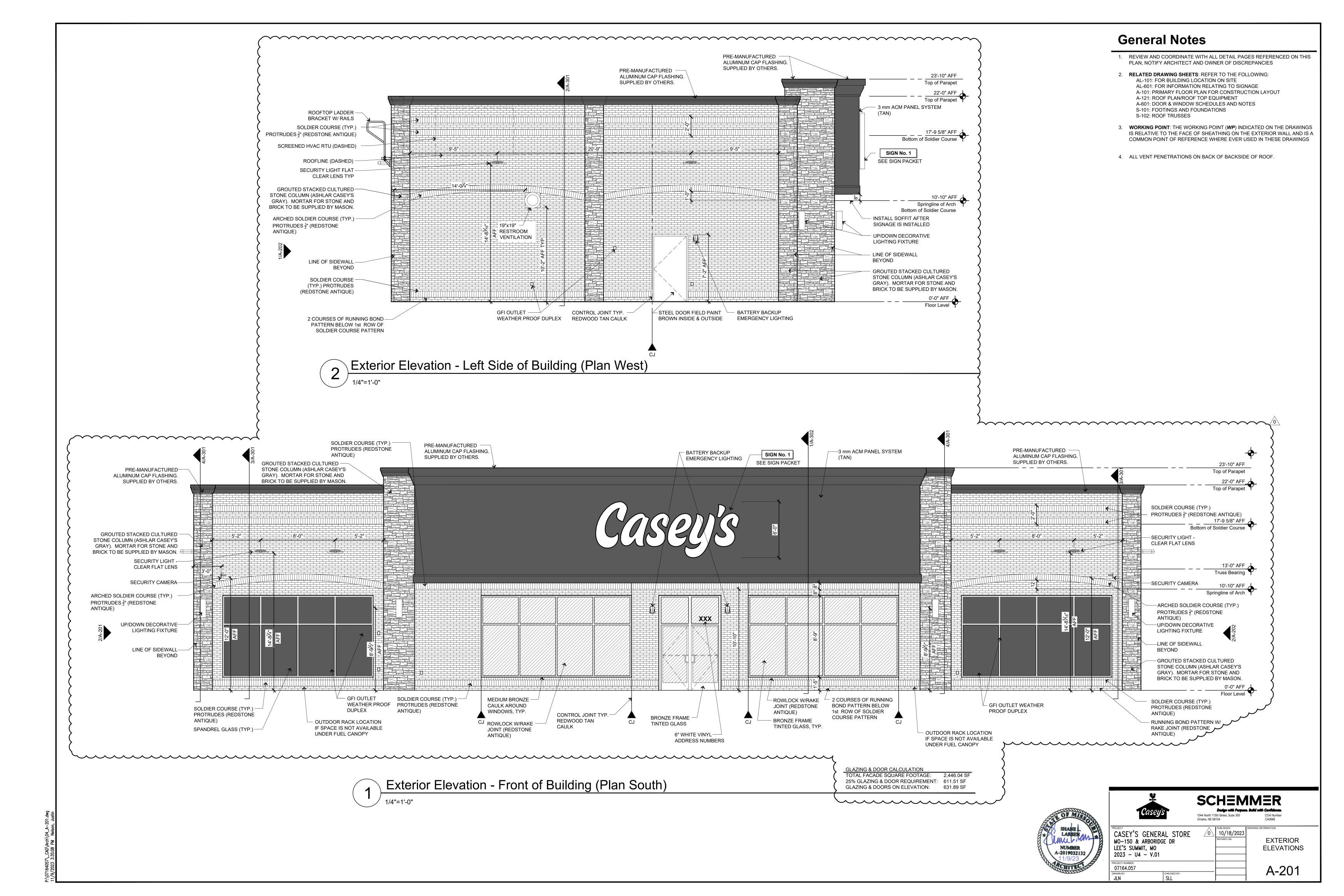


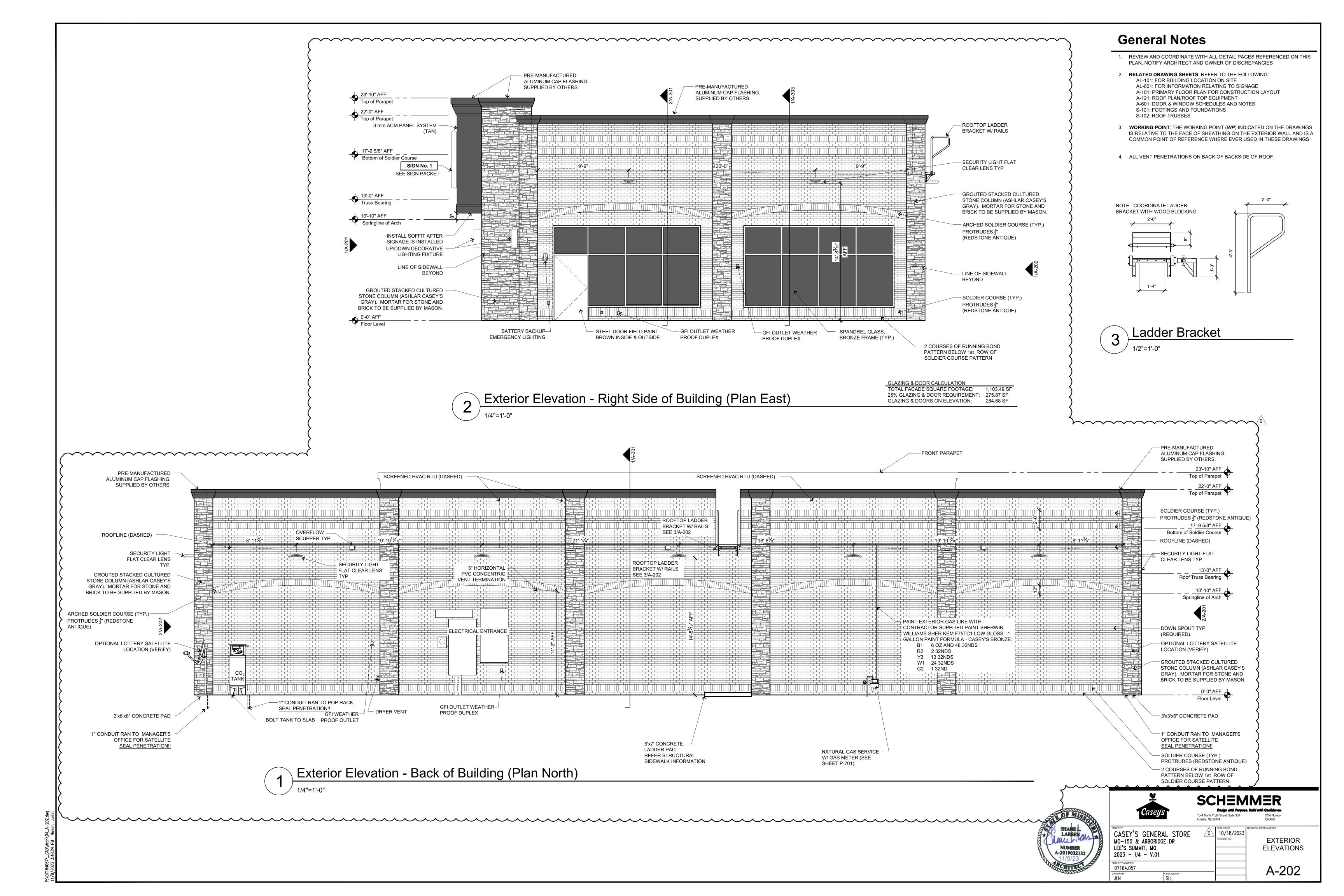
Keyed Construction Notes

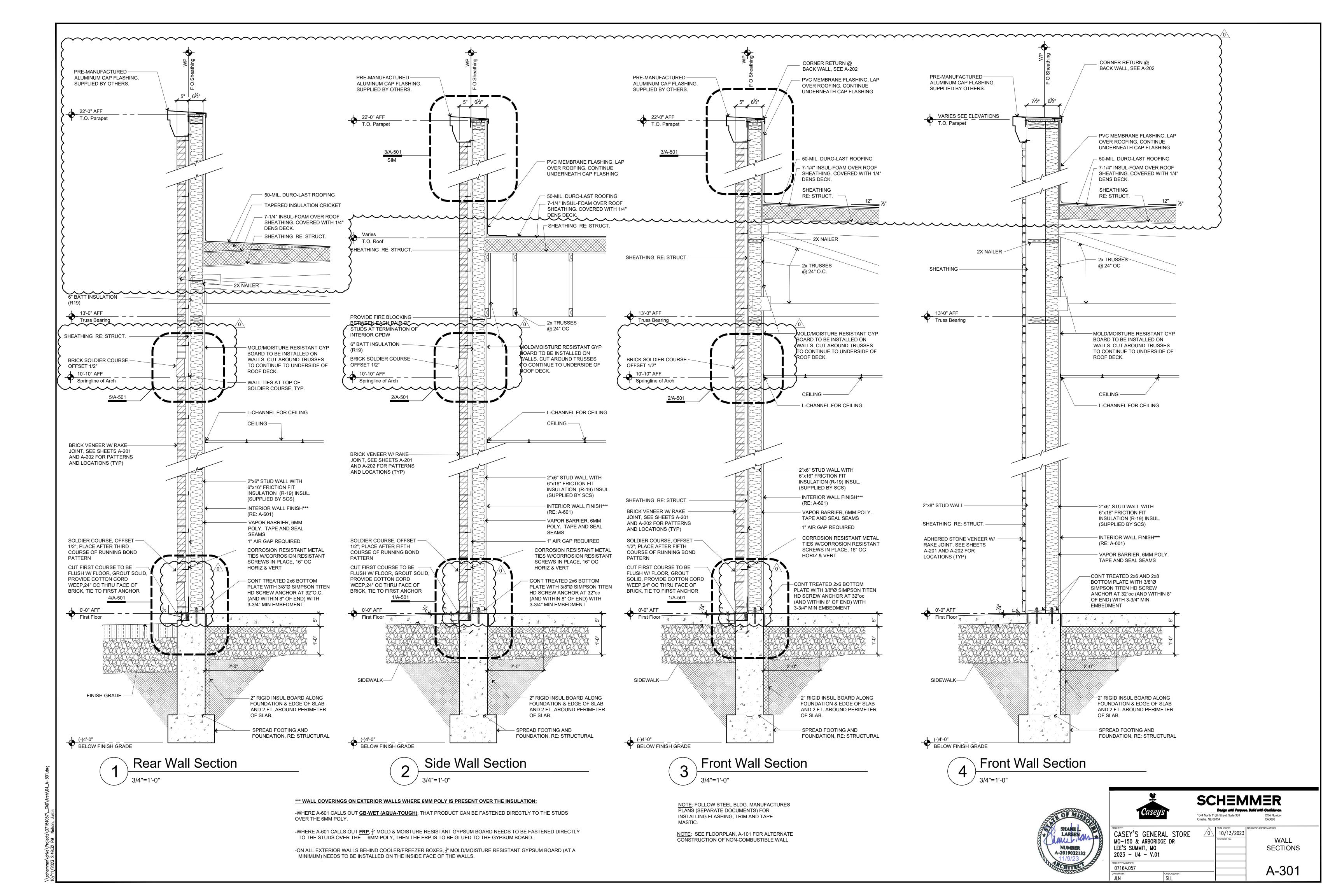
- CONDENSATION LINES: HVAC CONTRACTOR TO SUPPLY & INSTALL 1" PVC DRAIN LINES TO DIVERT CONDENSATION FROM AIR HANDLER UNITS ACROSS FLAT ROOF WHERE THE WATER WILL IN TURN FLOW TO THE GUTTER SYSTEM
- RTU CURB HEIGHT: CURB HEIGHT TO BE A MINIMUM OF 8" FROM TOP OF THE RUBBER ROOF TO TOP OF THE CURB.
- 46.5"x36.5"x24" 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
- 7 DOLT UNITE TO DA GUO AND CONDENSED DAILO
- 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.

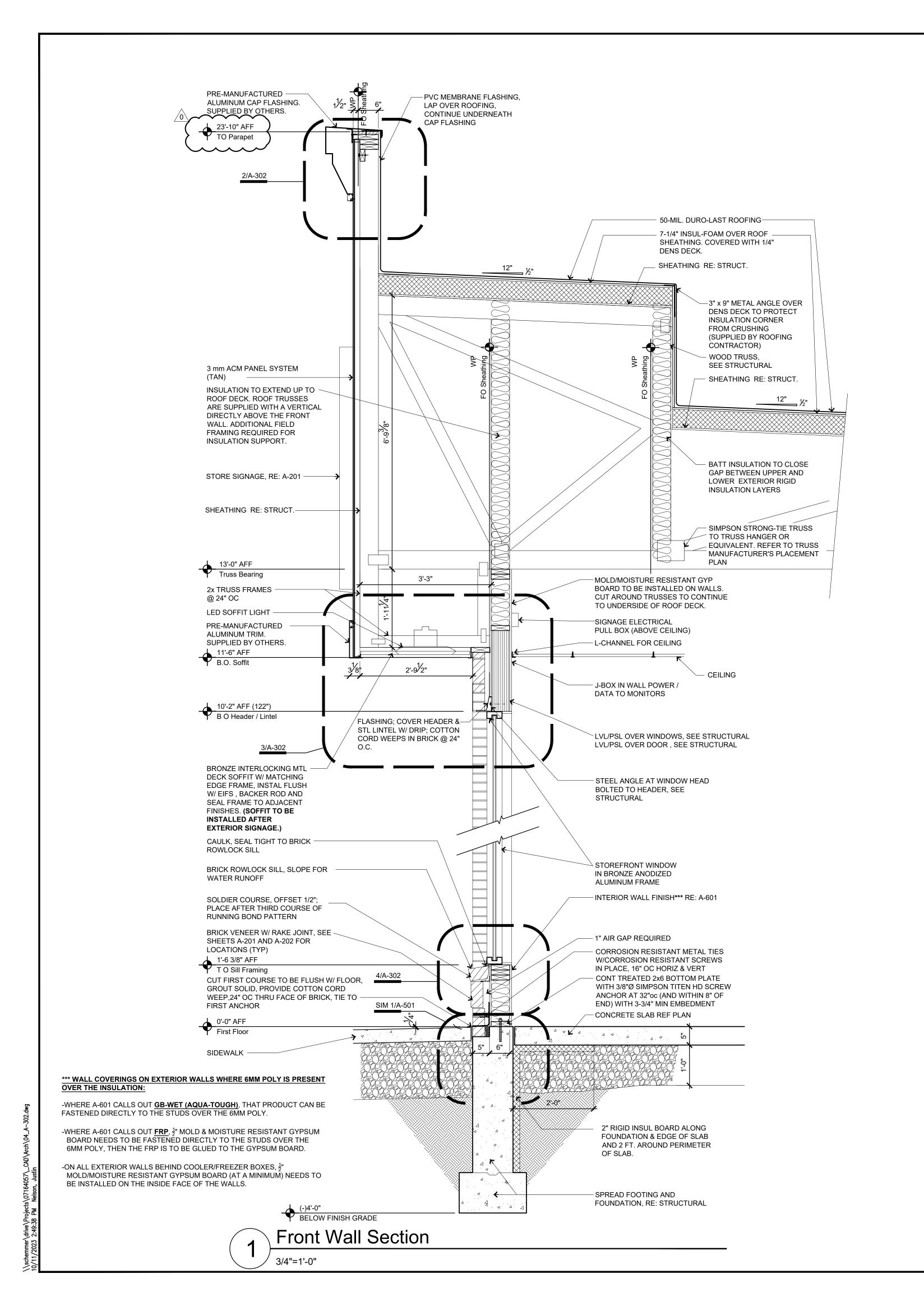


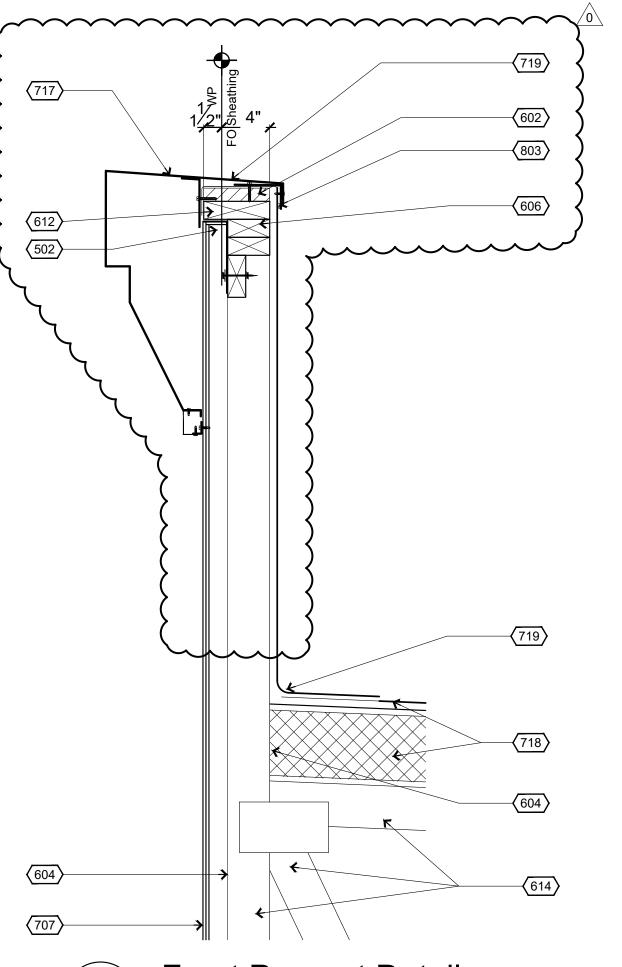
Casey's	SCHEM 1044 North 115th Street, Suite 300 Omaha, NE 68154	D. Build with Confidence. COA Number CA0666
CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	0 PUBLISHED: 10/13/2023 REVISED ON:	ROOF CURB PLAN
OJECT NUMBER: 07164.057 AWN BY: CHECKED BY: II N C11		A-122





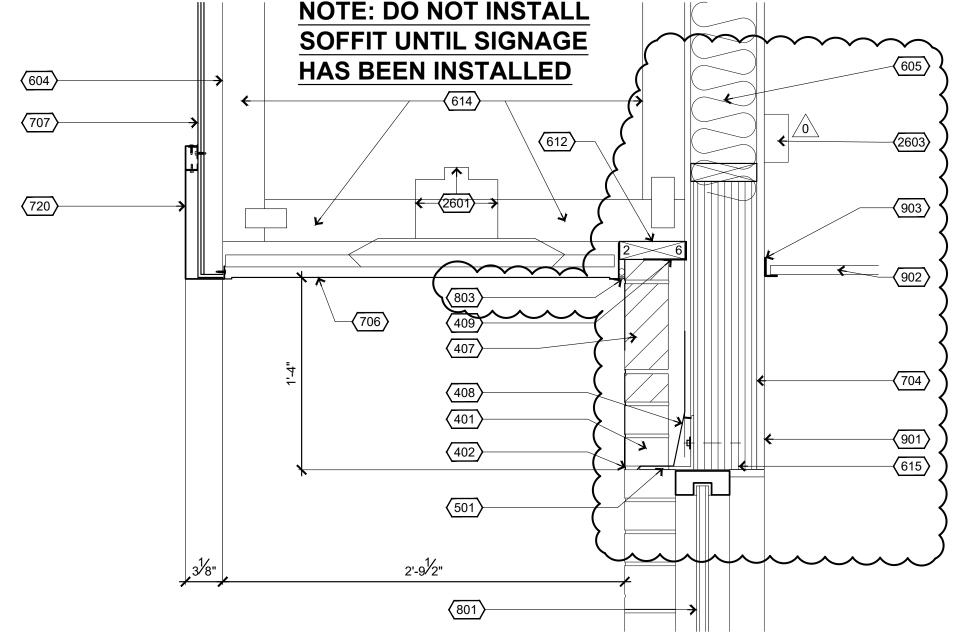






Front Parapet Detail

1 1/2"=1'-0"



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"
- 409 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 $\overline{\overline{}}$ **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





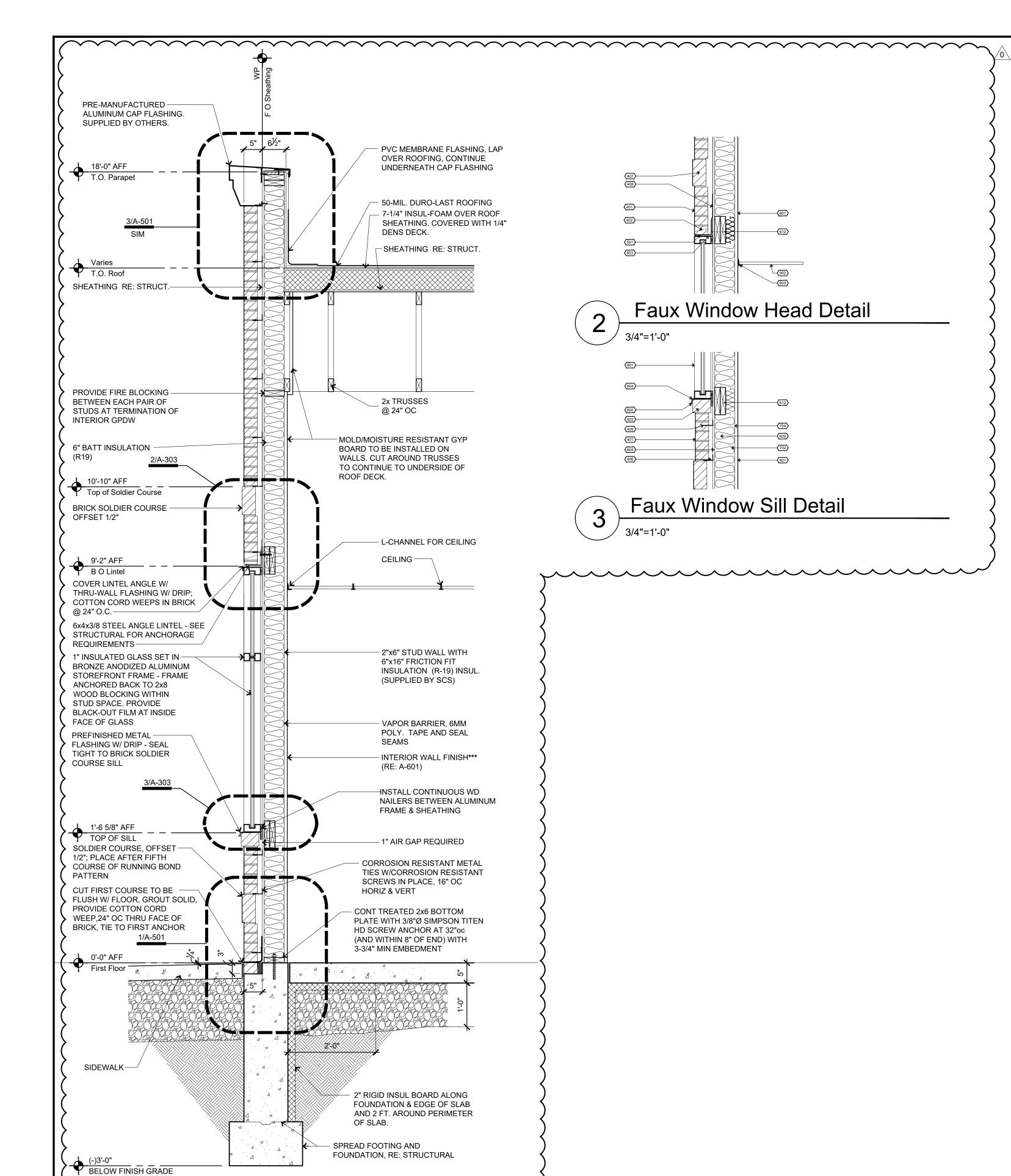
JLN

1044 North 115th Street, Suite 300

10/13/2023 WALL SECTIONS

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

A-302



Side Wall Faux Window Section

*** 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.

-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, ¹/₂" MOLD/MOISTURE RESISTANT GYPSUM BOARD (AT A

3/4"=1'-0"

OVER THE 6MM POLY.

Keyed Construction Notes

DIVISION 4 - MASONRY

SET MIN 24" OC

 $\sqrt{401}$ FACE BRICK: COLOR AS INDICATED ON ELEVATIONS, RUNNING BOND

PATTERN (TYP) W/ RAKE JOINTS

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

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)

THRU-WALL FLASHING: 'FLASH-VENT' BY YORK MFG OR EQUAL; ASPHALT FREE COPPER W/ NON-WOVEN FABRIC DRAINAGE MAT, 3 OZ, EXTEND

MASONRY ANCHORS (SEE NOTE 405) SET IN BED OF MORTAR ON TOP OF BRICK SOLDIER COURSE

DIVISION 5 - METALS

BEYOND MASONRY FACE 1/2"

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

 $\overline{\langle 612 \rangle}$ DBL 2x8 BLOCKING FOR FULL LENGTH OF WINDOW OPENING.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

\$\frac{702}{BATT INSULATION: FRICTION FIT INSULATION 5 1/2" R-24

VAPOR BARRIER (6 MIL): INSTALL VAPOR BARRIER BETWEEN STUDS AND INTERIOR WALL MATERIAL.

 $\overline{\langle 717 \rangle}$ 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.

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

PROJECT:

CASEY'S GENERA
MO-150 & ARBORIDO



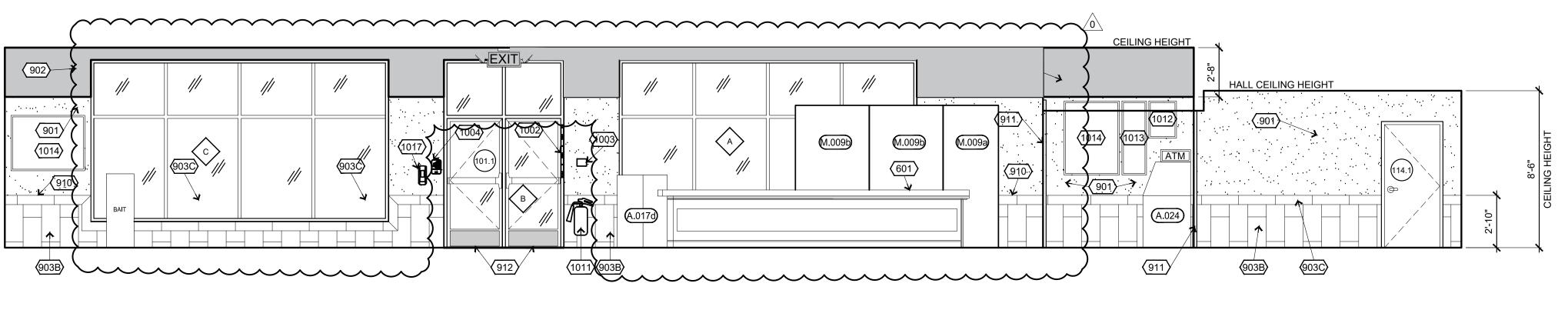
WALL SECTIONS

A-303

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

PROJECT NUMBER:
07164.057
DRAWN BY:
JLN

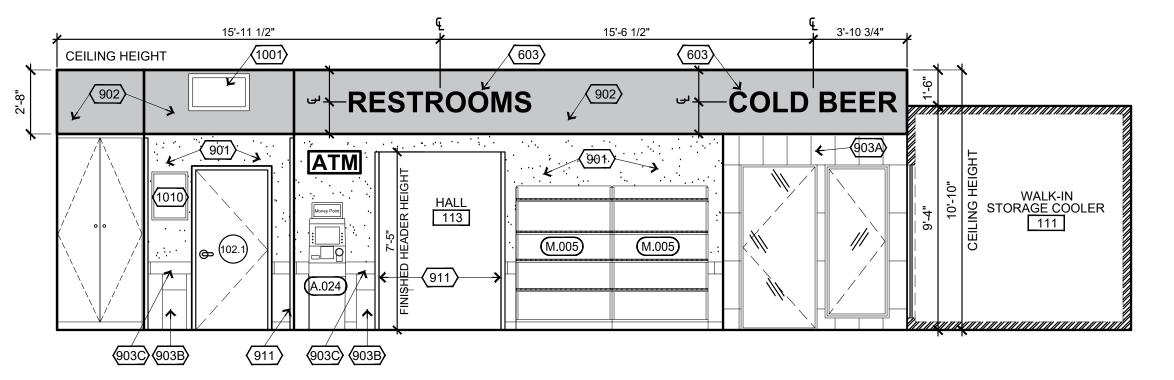
CHECKED BY:
SLL



Retail Floor 101, Plan South

CEILING HEIGHT 902 Casey's HERE FOR LEE'S SUMMIT -DRÍNKS (1000) **←** 903A (601) TYP. 903C \ 903B

Retail Floor 101, Plan North

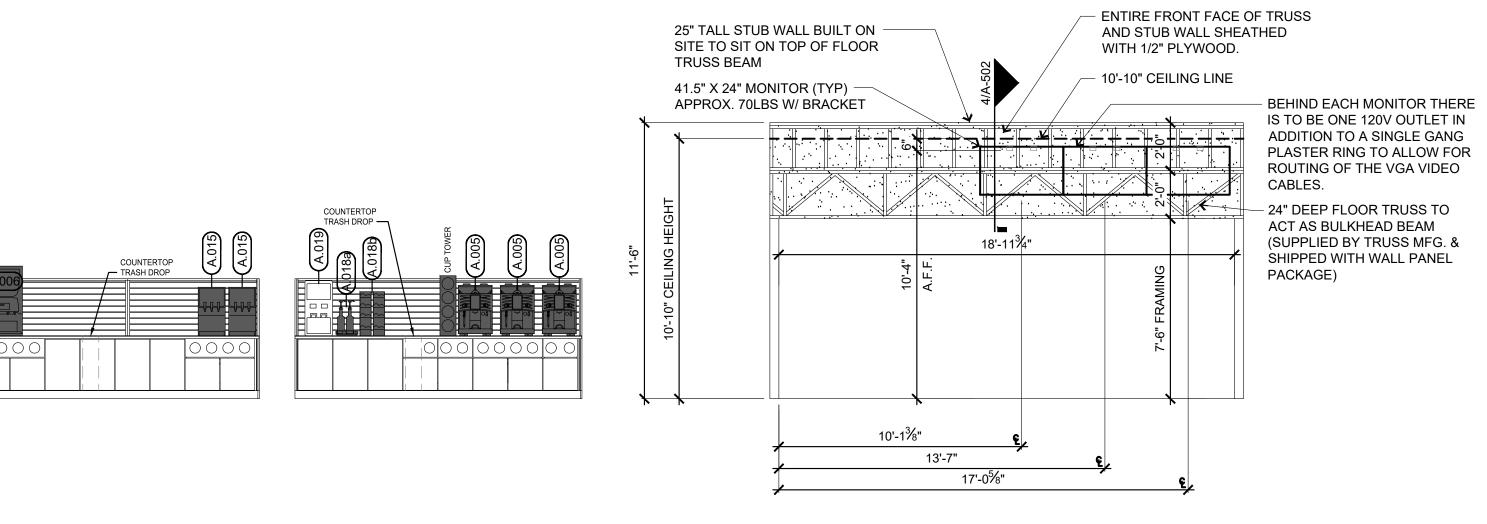


Casey's KITCHEN 902 KITCHEN 903C ||||||-≱--||| (BEYOND) M.005 (M.005)(M.005) 903C 903B

Retail Floor 101, Plan West

Retail Floor 101, Plan East

1/4" = 1'-0"



Retail Floor 101, Hot Beverage Island Elevs.

Retail Floor 101, Plan East - Floor Type Truss



 Excellent for steel substrates **INDUSTRY STANDARDS & APPROVALS** ISO 13007: Classification R2 LEED Points Contribution LEED Points MR Credit 5, Regional Materials*.... ... Up to 2 points IEQ Credit 4.1, Low-Emitting

LIMITATIONS

Materials - Adhesives & Sealants IEQ Credit 4.3, Low-Emitting Materials – Flooring Systems * Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all

• Do not use on exterior walls as a full continuous building facade.

applications. It may be necessary to back-butter tiles in order to reach these requirements. (Refer to ANSI A108.5 specifications and TCA Handbook guidelines.) With pressure, apply a coat by using the trowel's flat side **SUITABLE SUBSTRATES** to key mortar into substrate. Apply additional mortar, combing it in a single direction with the trowel's notched side.

> Spread only as much mortar as can be tiled before product skins over. Open time can vary with jobsite 5. Tile and stone must be dry before setting into the mortan Place the tiles firmly into the wet mortar. Push the tiles back and forth in a direction perpendicular to trowel

lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between Properly prepared existing ceramic and porcelain tile, mortar, tile and substrate by periodically lifting a few tiles cement terrazzo, epoxy terrazzo, quarry tile and pavers to check for acceptable coverage. (interior and dry conditions only) Remove excess mortar from the joint areas so that at Properly prepared steel least 2/3 of the tile depth is available for grouting (see Consult MAPEI's Technical Services Department for ANSI A108.10 guidelines)

CONTROL JOINTS

document for tile and stone installation systems at Clean tools and tile while mortar is fresh

Protect from traffic for 24 hours. Protect from heavy

10/13/2023 07164.057

(1016) EMERGENCY PULL STATION MOUNT 48" TO CENTER OF OCTAGON BOX. (1201) OWNER SUPPLIED TABLE & CHAIRS.

Material Safety Data Sheet (MSDS) for details. Parts A and B are packaged to exact quantity ratios for proper test material for possible staining and discoloration. 1. Pour all material out of the Part B liquid container into the Part A container. To improve flowability and texture allow time for Part B material to flow completely out of the container. Always mix complete units. Do not add . The temperature of the tilework, substrate and ambient temperature must be between 60°F and 90°F (16°C and 32°C) while spreading. 1044 North 115th Street, Suite 300 Using a low-speed mixing drill (at about 300 rpm), mix This temperature should be maintained until Planicrete W has hardened thoroughly until a homogenous paste consistency is obtained. Avoid prolonged mixing. Do not use over dimensionally unstable substrates such as hardwood 3. Use mixture within 1 hour. flooring, oriented strand board (OSB), or substrates containing asbestos. CASEY'S GENERAL STORE See "Suitable Substrates" section below. PRODUCT APPLICATION Do not use when hydrostatic or severe moisture conditions exist. MO-150 & ARBORIDGE DR 1. Choose a typical notched trowel (see chart below) with LEE'S SUMMIT, MO Do not use for installations subject to prolonged water immersion. sufficient depth to achieve > 80% mortar contact to both 2023 - U4 - V.01 Do not use for the installation of white, light-colored or translucent marble,

NOTE: REFER TO SHEET AQ-101 FOR ADDITIONAL EQUIPMENT

DIVISION 6 - WOOD, PLASTICS, AND COMPOSITES

(601) PRE-ASSEMBLED CASEWORK WITH 1-1/2" T. CORIAN SOLID SURFACE

General Notes

 $\langle 602 \rangle$ 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

INDENTIFICATION.

(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.

B. CERAMIC TILE (WAINSCOTTING - IRONCRAFT IC13 CHARCOAL GRAY 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.

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.

(1017) WALL MOUNTED HAND SANITIZER. 48" TO CENTER A.F.F.

DIVISION 12 - FURNISHINGS

Do not install directly over waterproofing, crack-isolation and sound-reduction membranes.

 Concrete (cured at least 28 days) Masonry cement block, brick, cement mortar beds and Cement backer units (CBU) – see manufacturer's installation guidelines

 Gypsum wallboard and plaster – interior walls in dry APA and CANPLY Group 1 exterior-grade plywood (interior, residential and light commercial in dry conditions only)

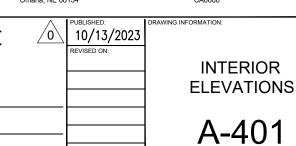
installation recommendations regarding substrates and conditions not listed. **SURFACE PREPARATION**

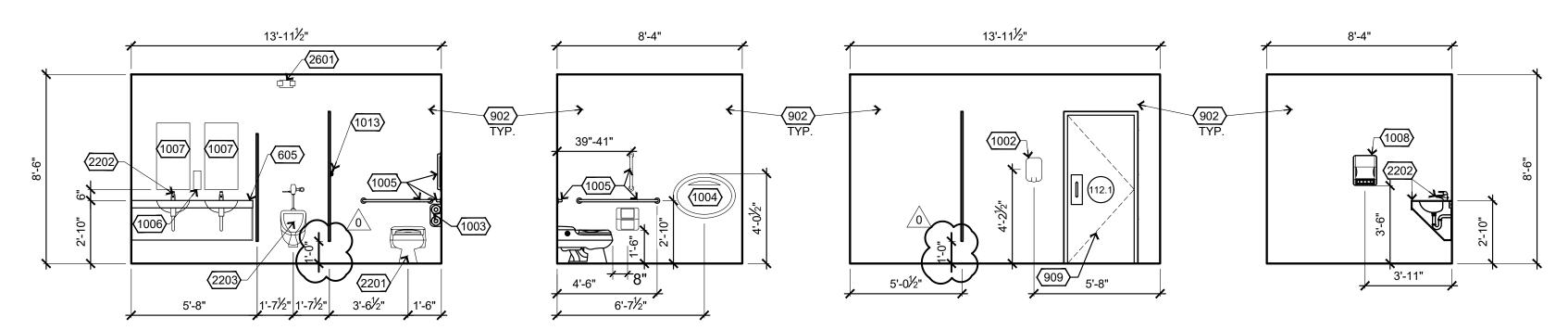
Provide for expansion and control joints as specified per All substrates should be structurally sound, stable, dry,
 TCNA Detail EJ171, or TTMAC Specification Guide 09 30 00, clean and free of any substance or condition that may Detail 301MJ. Do not cover expansion joints with mortar. reduce or prevent proper adhesion. See MAPEI's "Surface Preparation Requirements"

www.mapei.com. Note: Choose all appropriate safety equipment before use. See

MAPEI

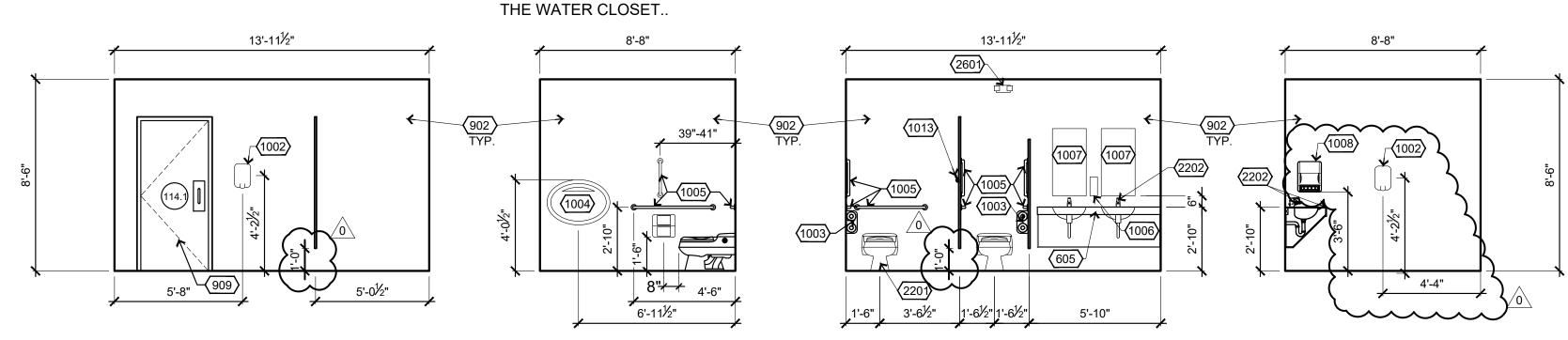
95% for exterior installations, commercial floor and wet





Men's Restroom 112

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

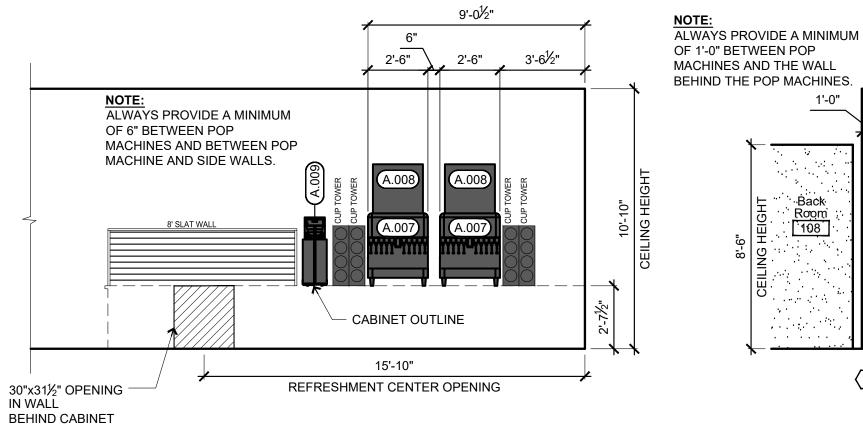


Women's Restroom 114

1/4" = 1'-0"

902

Manager's Office 102



ALWAYS PROVIDE A MINIMUM

Refreshment Center 101.1

General Notes

NOTE: REFER TO SHEET AQ-101 FOR ADDITIONAL EQUIPMENT

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.
- 602 1 1/2" T. CORIAN SOLID SURFACE WALL CAP.
- $\overline{\left\langle 603\right\rangle}$ 24" W. WOOD COUNTERTOP WITH PLAM FINISH AND ANCHORED WITH METAL
- (604) WOOD SHELF WITH PLAM FINISH.SUPPORTED ON 1x3 WOOD WALL CLIPS.
- (605) NEW SOLID SURFACE ONE PIECE COUNTERTOP WITH INTEGRAL BOWL. SUPPLIED BY OWNER. CTOP HEIGHT = 34" A.F.F..

DIVISION 8 - OPENINGS

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

- 901 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.
- $\overline{\left\langle 909\right\rangle }$ 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"
- DOUBLE 9" TOILET PAPER HOLDER: WALL MOUNTED 32" TO TOP, 8" IN FRONT OF WATER CLOSET TO CENTER OF DISPENSER.
- 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 SHOWN IN ELEVATION.
- 5000 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.
- (1013) COAT HOOK ON BATHROOM PARTITION DOOR. MOUNT 48" A.F.F.

DIVISION 12 - FURNISHINGS

(1202) 2-DRAWER METAL FILE CABINET SUPPLIED BY OWNER.

- 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,

DIVISION 25 - INTEGRATED AUTOMATION

(2501) 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.

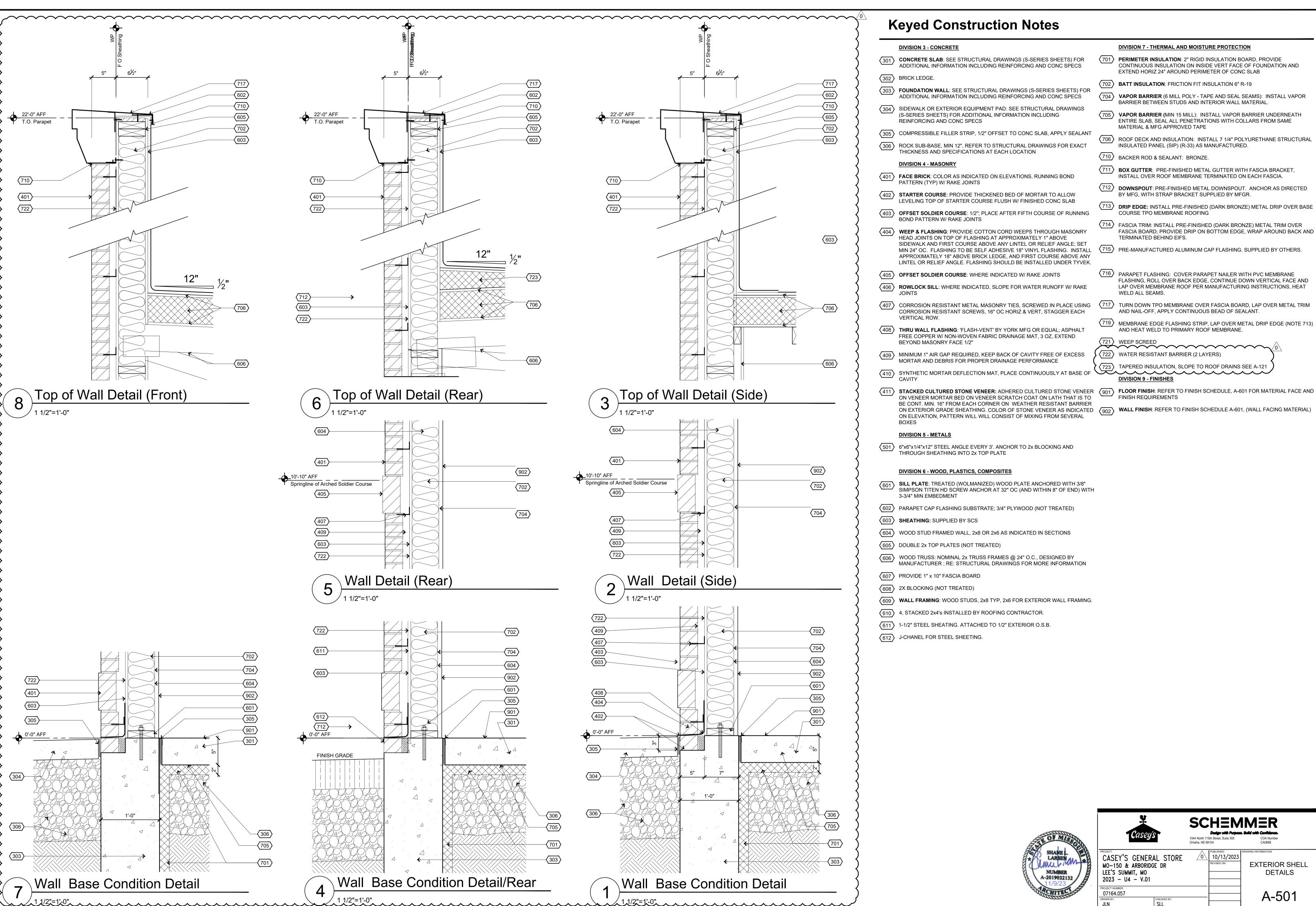




CASEY'S GENERAL STORE /0 10/13/2023 MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01 07164.057

INTERIOR **ELEVATIONS**

A-402



DIVISION 7 - THERMAL AND MOISTURE PROTECTION

(701) **PERIMETER INSULATION**: 2" RIGID INSULATION BOARD, PROVIDE CONTINUOUS INSULATION ON INSIDE VERT FACE OF FOUNDATION AND EXTEND HORIZ 24" AROUND PERIMETER OF CONC SLAB

704 VAPOR BARRIER (6 MILL POLY - TAPE AND SEAL SEAMS): INSTALL VAPOR

705 VAPOR BARRIER (MIN 15 MILL): INSTALL VAPOR BARRIER UNDERNEATH ENTIRE SLAB, SEAL ALL PENETRATIONS WITH COLLARS FROM SAME

INSULATED PANEL (SIP) (R-33) AS MANUFACTURED.

(711) BOX GUTTER: PRE-FINISHED METAL GUTTER WITH FASCIA BRACKET, INSTALL OVER ROOF MEMBRANE TERMINATED ON EACH FASCIA.

DOWNSPOUT: PRE-FINISHED METAL DOWNSPOUT. ANCHOR AS DIRECTED

713 DRIP EDGE: INSTALL PRE-FINISHED (DARK BRONZE) METAL DRIP OVER BASE COURSE TPO MEMBRANE ROOFING

(714) FASCIA TRIM: INSTALL PRE-FINISHED (DARK BRONZE) METAL TRIM OVER FASCIA BOARD; PROVIDE DRIP ON BOTTOM EDGE, WRAP AROUND BACK AND

715 PRE-MANUFACTURED ALUMINUM CAP FLASHING. SUPPLIED BY OTHERS.

(716) 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

AND NAIL-OFF, APPLY CONTINUOUS BEAD OF SEALANT.

(719) MEMBRANE EDGE FLASHING STRIP, LAP OVER METAL DRIP EDGE (NOTE 713) AND HEAT WELD TO PRIMARY ROOF MEMBRANE.

(722) WATER RESISTANT BARRIER (2 LAYERS)

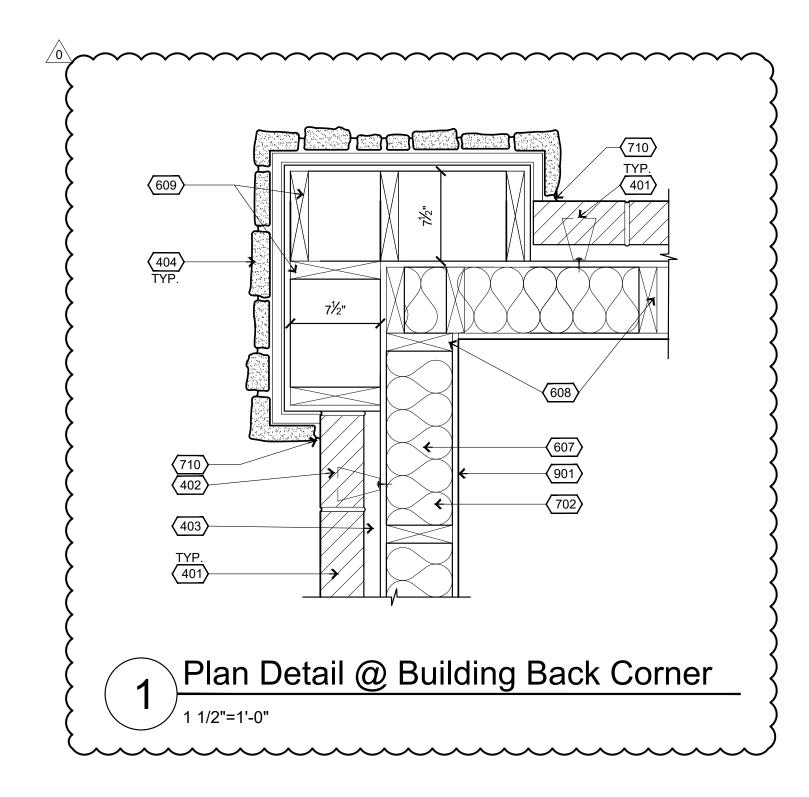
723 TAPERED INSULATION, SLOPE TO ROOF DRAINS SEE A-121

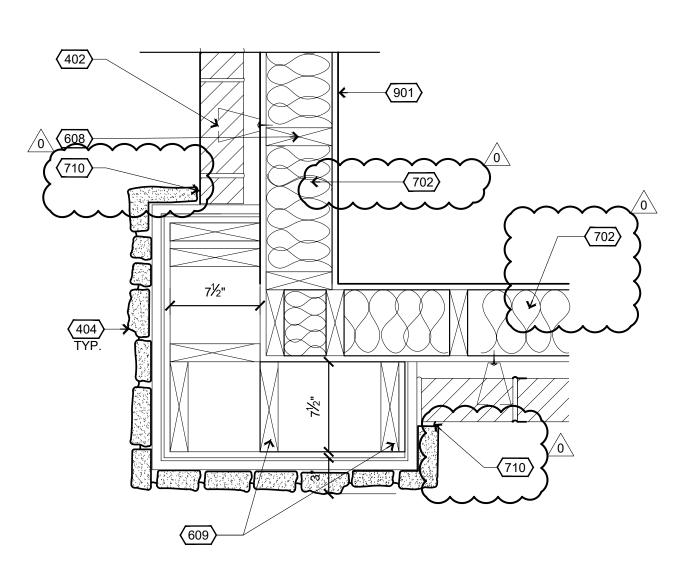


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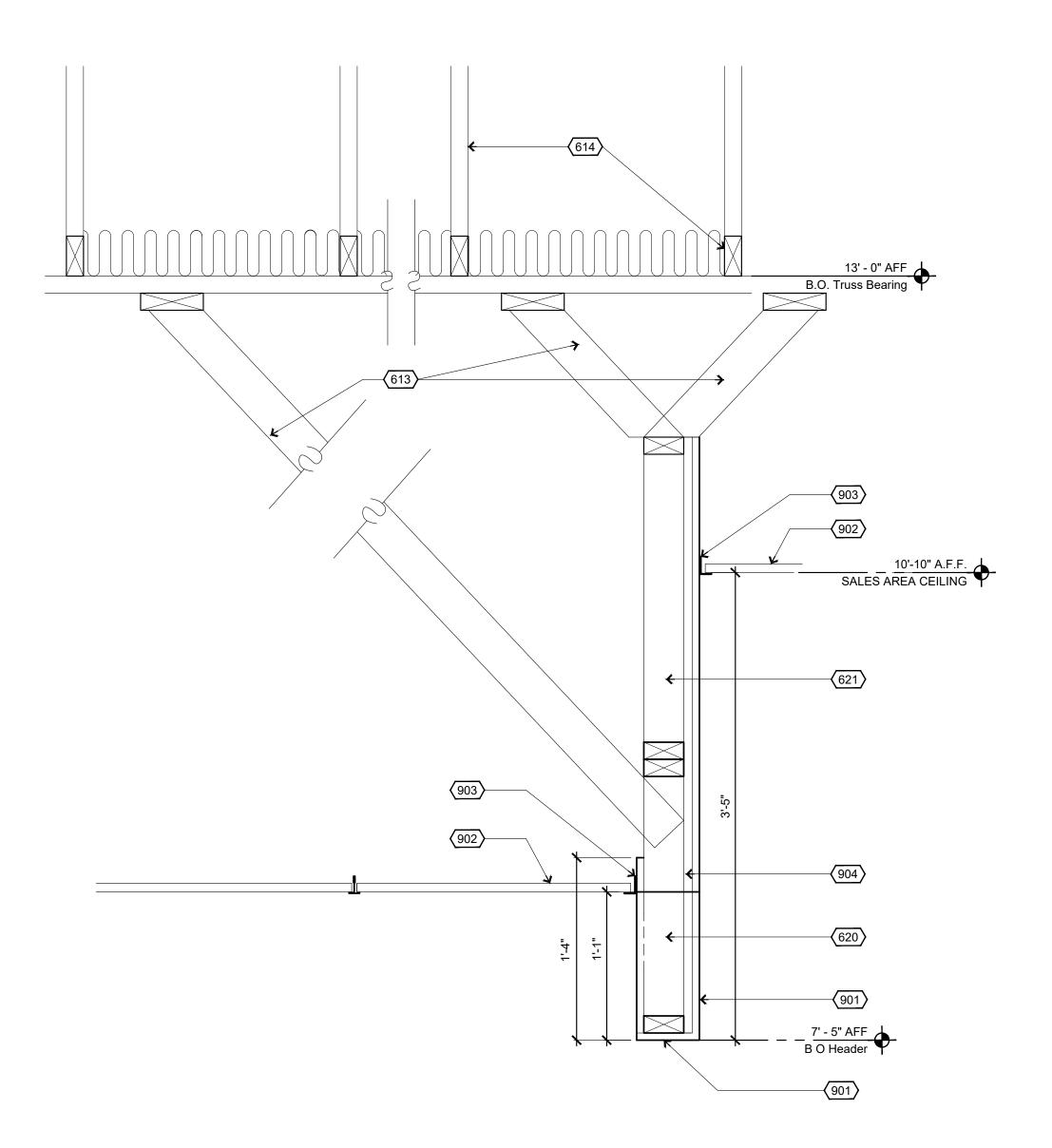
EXTERIOR SHELL DETAILS

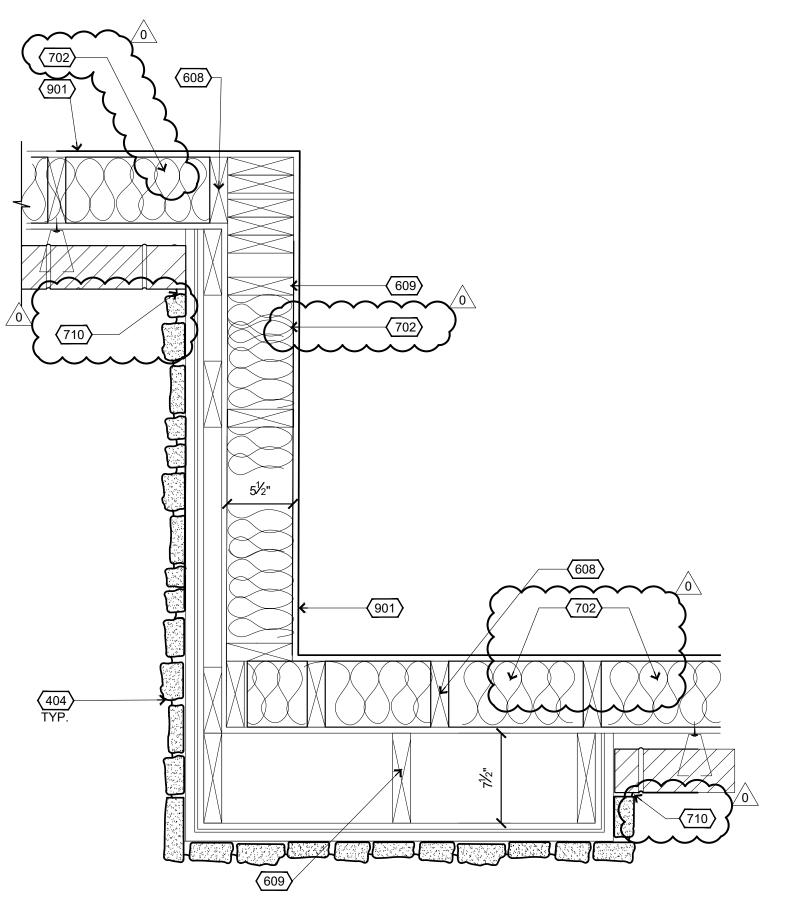
A-501



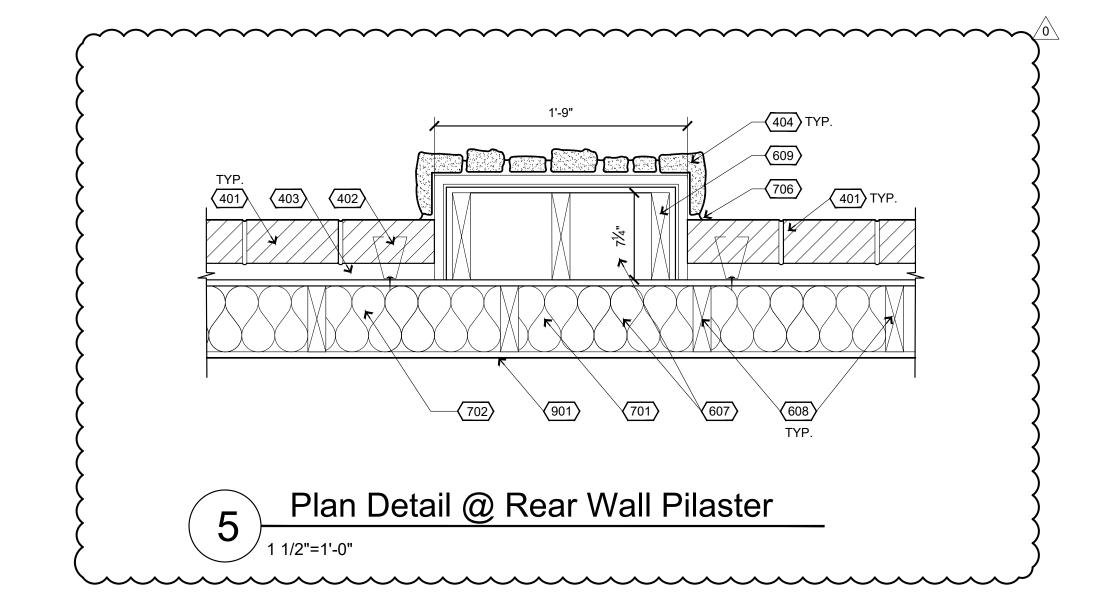


Plan Detail @ Building Corner





Plan Detail @ Building Bump Out



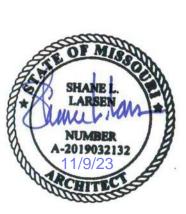
Keyed Construction Notes

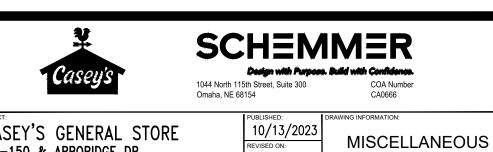
DIVISION 4 - MASONRY

- 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

Kitchen Bulkhead Detail 1 1/2"=1'-0"

Door Schedule FRAME ROUGH OPENING DOOR **HARDWARE** Thick' Type Material Type [W.] Material Finish Components Key Side NOTES Finish 101.1 (FRONT) 6'-8" PR 3'-0" x 7'-0" ALUMINUM FACTORY [4 1/2"] | ALUMINUM **FACTORY** OP, C, PH, S $\langle 5 \rangle \langle 7 \rangle$ 3'-0" x 6'-8" (3068) | 1 3/4" | A | SC WOOD 102.1 (MANAGERS OFFICE) 3'-4" LH 1 [4 5/8"] | STEEL BREAK DOWN SH, LS, WS, K PLAM **FACTORY** 104.1 (EXTERIOR STORAGE ROOM) 3'-10" 3'-6" x 7'-0" (3670) 1 3/4" | B | STEEL PAINT H/BB, CL, K, MWS, LI PAINT LH | 1 [10 1/4"] | HOLLOW METAL 104.2 (STORAGE ROOM) 3'-0" x 6'-8" (3068) 1 3/4" A SC WOOD FACTORY SH, LS, WS, K 3'-4" PLAM RH 1 [4 1/2"] | STEEL BREAK DOWN 107.1 (UTILITY ROOM) 3'-4" 3'-0" x 6'-8" (3068) 1 3/4" SC WOOD FACTORY SH, LS, WS, K PLAM LH | 1 [4 1/2"] | STEEL BREAK DOWN 108.1 (BACK ROOM) 3'-4" 3'-0" x 6'-8" (3068) 1" ABS PLASTIC FACTORY 1 [6 1/2"] STEEL BREAK DOWN ACTORY HARDWARE BY DOOR SUPPLIER 112.1 (MEN'S RESTROOM) 3'-4" 3'-0" x 6'-8" (3068) 1 3/4" SC WOOD PP, CL, K, WS, FS PLAM LH 1 [4 3/4"] STEEL BREAK DOWN **FACTORY** 113.1 (END-EXTERIOR) 3'-10" 3'-6" x 7'-0" (3670) 1 3/4" | B | STEEL RH | 1 [10 1/4"] | HOLLOW METAL PAINT H/BB, CL, PB, K, MWS 114.1 (WOMEN'S RESTROOM) 3'-4" 3'-0" x 6'-8" (3068) 1 3/4" A SC WOOD RH 1 [4 3/4"] STEEL BREAK DOWN ACTORY PP, CL, K, WS, FS

Room Finish Schedule

4 FIBERGLASS REINFORCED PLASTIC (FRP) CARE AND PROCEDURE

BOARD (OSB) AND IS NFS AND USDA APPROVED.

4.3 ACCLIMATE TO ROOM TEMPERATURE AND HUMIDITY.

CAPS, AND OUTSIDE CORNERS.

LAY FLAT AGAINST WALL PANEL

SMOOTH, LEVEL, STRAIGHT AND PLUMB.

MOLDINGS.

APPLY TOO.

COVERINGS.

4.1 PANELS SHALL BE STORED ON A FLAT DRY SOLID SURFACE.

4.2 LAY HORIZONTAL AT LEAST 24 HOURS PRIOR TO INSTALLATION.

4.4 ALLOW MINIMUM 1/8" EXPANSION GAP BETWEEN PANELS AND

4.6 APPLY SILICONE SEALANT BETWEEN MOLDINGS AND PANEL.

4.5 VINYL MOLDINGS AVAILABLE; INSIDE CORNER, DIVIDER STRIPS, END

4.7 PROPER ADHESIVE REQUIRED ON ALL SUB-SURFACES THAT PANELS

4.8 INSURE THAT ALL WALL SURFACES AND STUDS ARE CLEAN, DRY,

4.9 ALL SUB-SURFACES JOINTS TO BE STAGGERED JOINTS W/FRP

4.10 NOTICE: DIVIDER MOLDINGS NEED TO BE TRIMMED 3 FT. ABOVE

4.11 ALL MOLDINGS NEED TO BE TRIMMED TO ALLOW CEILING CHANNEL

AT AREAS OF EQUIPMENT OR SERVICE DOORS.

APPLICATION/INSTALLATION SPECIFICATIONS.)

DEVELOPED 450 OR LESS. GLASBORD-P.

10 SAW CUTS TO BE CLEANED AND READY FOR FILL.

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.

9 CLASS "C" FIRE RATED, FLAME SPREAD 200 OR LESS, SMOKE

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

CEILING WIRE SUPPORTS: DO NOT INSTALL CEILING WIRE SUPPORT

FLOOR BASE, SINKS, TRIM, BACK SPLASHED AND ANY OTHER ITEMS TO

CONTRACTOR TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND

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

	NO.	NAME		FL	OOF	۲			ВА	SE			WA	ALLS	3					GENERAL REMARKS
													FIN	NSH			MA	TEF	RIAL	
-		ALL WALLS	SV	CT1	VCT	sc	NONE	NOTES	RB	CT2	NONE	NOTES	Д	FRP	CT2	NONE	GB-WET	OSB	NOTES	
1 [101	Sales Area		•					•				•		•		•			
1 [102	Manager's Office		•					•					•				•	₩3>	
7 [103	Kitchen			•				•					•				•	⟨W3⟩	1
7 [104	Storage		•					•					•					⟨W3⟩	
7 F	105	Walk-In Freezer With Manufactured Floor						F2				(B1)				•				
7 [106	Walk-In Cooler Without Manufactured Floor	•								•	(B1)				•				
7 [107	Utility Room		•					•					•			•	•	₩3 >	
1 [108	Back Room		•					•					•			•	•	⟨W3⟩	
1 [109	Walk-In Cooler Without Manufactured Floor	•								•	(B1)				•			₩1 >	
1 [110	Walk-In Freezer With Manufactured Floor						(F2)			•	(B1)				•			₩1 >	
1 [111	Walk-In Stor. Cooler Without Mnfctrd Floor	•									(B1)				•			₩1 >	
	112	Men's Restroom		•						•		-		•				•	₩4 >	
1	113	Hall		•						•			•		•		•		₩4 >	
	114	Women's Restroom		•						•				•				•	₩4 >	
1																				

General Door Schedule Notes

- SEE SHEET A-101 FOR FLOOR PLAN AND DOOR LOCATIONS
- BRONZE CAULK APPLIED TO ALL EXTERIOR DOORS
- 3. 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.

Frame Types

- 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)
- 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".
- MATERIAL SUPPLIED AND SHIPPED BY CASEY'S ON FIRST LOAD:

2.5 CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ALL REMAINING

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

- 3.1 5-ROLLS ARMSTRONG (S-153) SCRIBING FELT PAPER 36" x 50 YARDS
- 3.2 6-ROLLS NATURAL (CP083) CREPE MASKING TAPE 1-1/2" x 60 YARDS

Room Finish Schedule Notes

(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

- (WIT) 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
- PROVIDE GYP-BOARD (GREEN) INTERIOR PANELS FOR TILE BACKING & PAINT

1 NON-COMBUSTIBLE WALL: INSTALL STEEL STUDS WITH 5/8" GYP-BOARD

Crack Isolation Specification

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

Floors

- PANELS. CONTRACTOR TO FINISH ALL JOINTS AND MAKE ALL FIELD CUTS ACCORDING TO MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS

General Remarks

(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

Glazing Key - All Windows

THE #3 SURFACE.

●●● 1" BRONZE TINTED INSULATED TEMPERED

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

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.

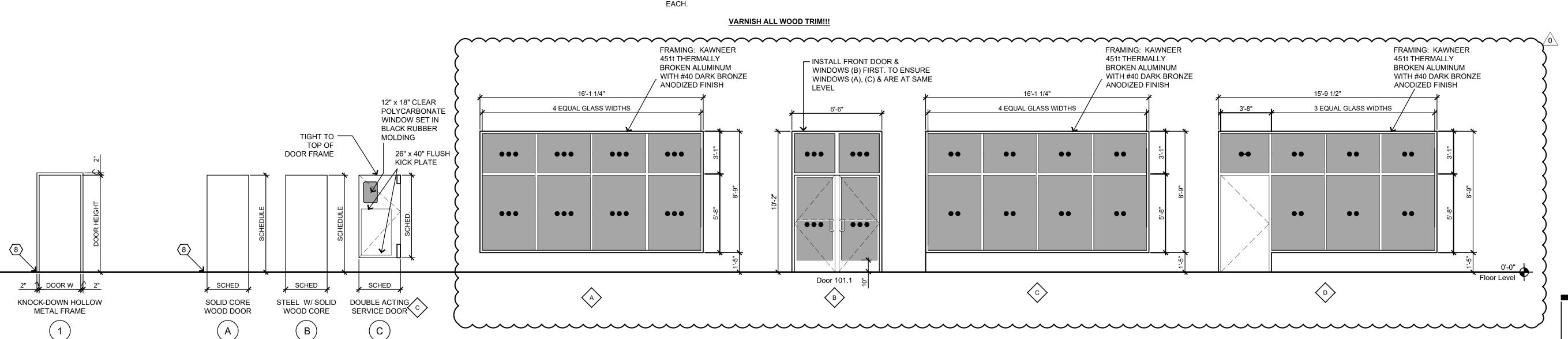
OSB: KEMLITE LAMINATED FRP TO 1/2" OSB SUBSTRATE (KEMPLY), INSTALL AND FINISH PER MANUFACTURERS WRITTEN INSTRUCTIONS; SEE FRP WALL FINISH FOR MORE INFORMATION.





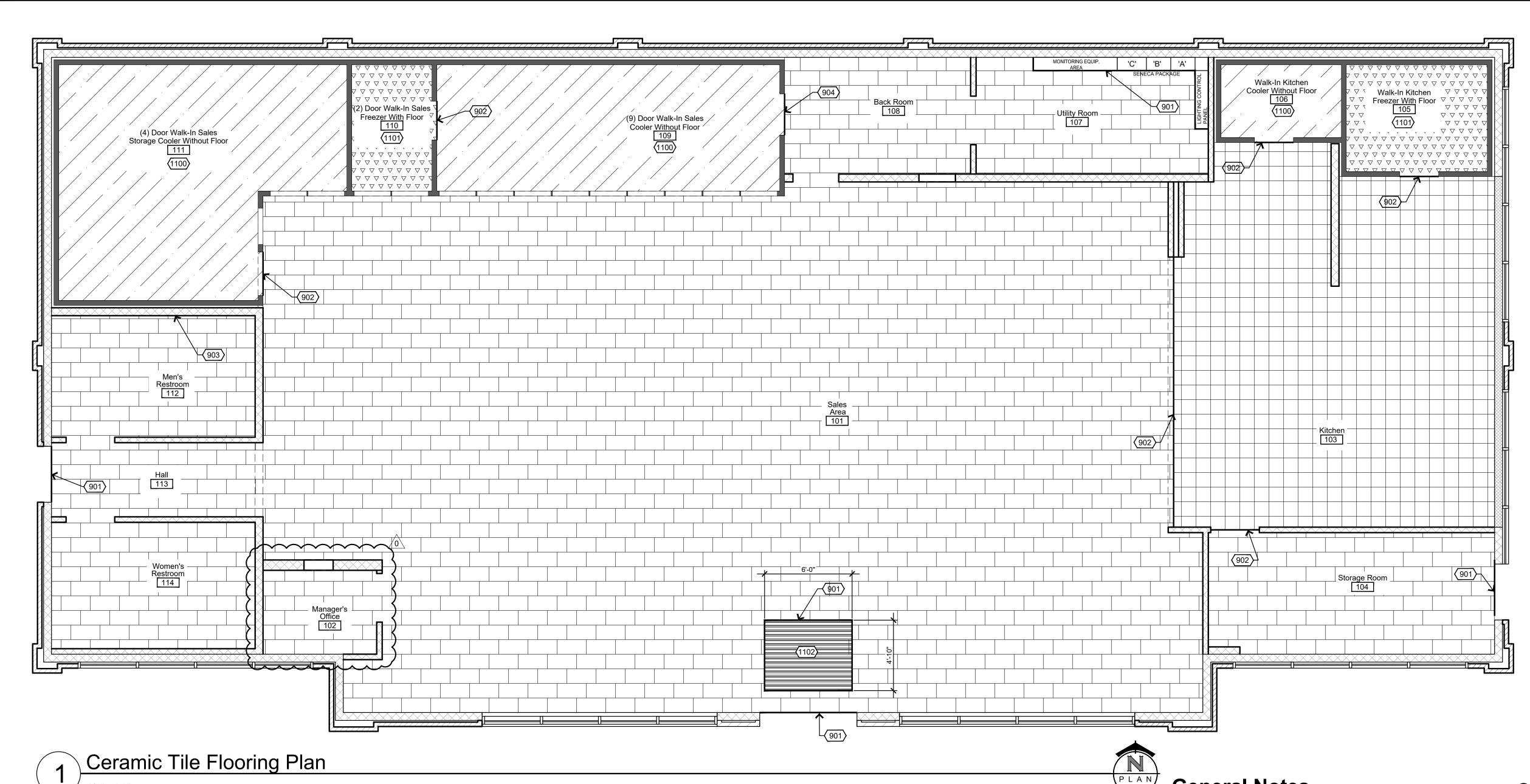
1044 North 115th Street, Suite 300

10/13/2023 CASEY'S GENERAL STORE DOOR. WINDOW & MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO **ROOM FINISH** 2023 - U4 - V.01 SCHEDULES PROJECT NUMBER 07164.057 A-601 JLN



Window Frame Elevations

GLASS WITH LOW-E COATING ON THE #3 SURFACE. ● 1" BRONZE TINTED INSULATED TEMPERED SPANDREL GLASS WITH LOW-E COATING ON





FEATURES AND BENEFITS

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

Mapelastic HPG and Mapelastic Smart for specific uses:

WHERE TO USE

Mapelastic Smart for specific limitations.

LIMITATIONS

Compatible with MAPEI's Mapelastic, Mapelastic 315, Mapelastic HPG and

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

Mapelastic Smart waterproofing membranes and Mapeband™ accessories

Fully compatible with MAPEI mortars and grouts for complete system protection

See MAPEI's individual Technical Data Sheets (TDSs) for Mapelastic, Mapelastic 315.

See MAPEI's individual TDSs for Mapelastic, Mapelastic 315, Mapelastic HPG and

mechanically cleaned and prepared by diamond-cup grinding or other engineer-approved methods to obtain the International Concrete Repair Institute (ICRI)

oncrete surface profile (CSP) of #2. When concrete requires more mechanical

preparation, the profile will typically increase. In such cases, the surface can

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

preparation instructions. For other details, see MAPEI's "Surface Preparation

Requirements document for tile and stone installation systems at www.maper.

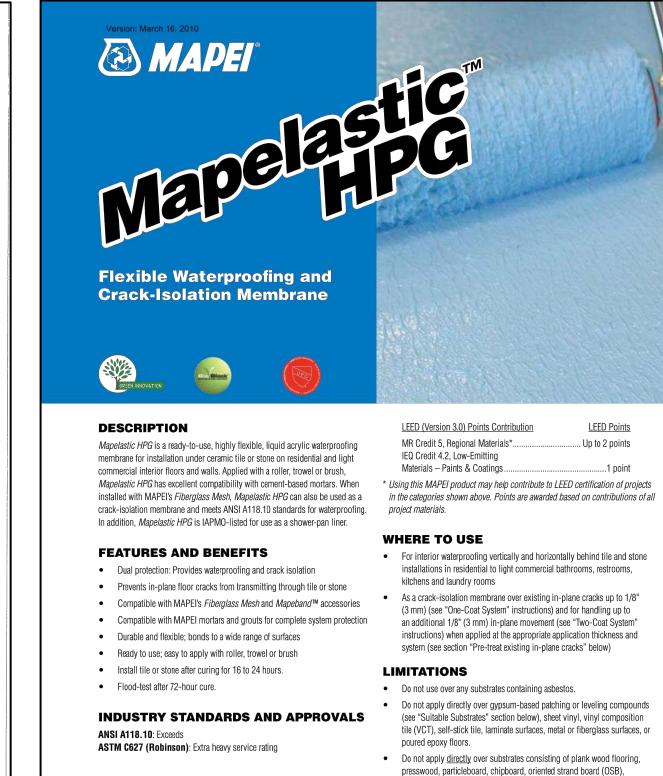
See TDSs of individual waterproofing products for other important surface

See MAPE's individual TDSs for Mapelastic, Mapelastic 315, Mapelastic HPG and

PRODUCT APPLICATION

Mapelastic Smart for specific application instructions.







SURFACE PREPARATION: MUST BE CLEANED OF ALL DUST & DEBRIS, AND MAPELASTIC/FIBERGLASS MESH FULL COVERAGE ON CRACKS AND STRIPPED OF ANY SEALERS, WAXES; OR OTHER BOND BREAKERS. SAWCUTS EXCEPT BACKROOM AND UTILITY ROOM. JUST TREAT SAW CUTS IN

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

THESE AREAS.

SUPPLIED BY OWNER.

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

5. CERAMIC TILE. TILE SUPPLIED BY CASEY'S GENERAL STORES. ORDERED

AND INSTALLED BY FLOORING CONTRACTOR. TILE SPECIFICATIONS

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

AROUND CONDUIT CHASE AND THE ENTRY MAT.

AGAINST THRESHOLD TYP. SEALANT AS REQ'D.

Finish Materials Legend

(1101) FREEZER PACKAGES WITH MANUFACTURER METAL FLOOR.

4'-10"x6'-0" RECESSED ENTRY WAY MAT TO BE INSTALLED 6" FROM

901 USE SCHLUTER AE 100 FOR ALL EXTERIOR DOORS, ELECTRICAL ROOM

902 USE SCHLUTER AEU 100 FOR ALL INTERIOR ENTRY WAYS. BUTT TIGHT

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

CERAMIC TILE: 12" x 24" DAL-TILE #SA07 (META DARK GRAY). THIN SET

THRESHOLD OF FRONT ENTRY DOORS. RECESSED INTO FLOOR TILE.

6. MAPCI EPOXY GROUT TO BE USED ON THE MEN'S RESTROOM FLOOR

4. FILL SAW CUTS WITH SELF LEVELING CAULK BEFORE

AND THE URINAL WALL. MAPCI EPOXY KIT #9999623831

Construction Notes

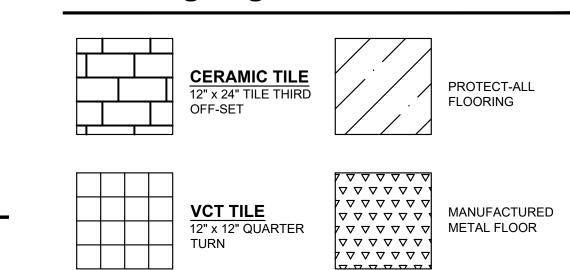
DIVISION 11 - EQUIPMENT

DIVISION 9 - FINISHES

Floors

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

MAPELASTIC/FIBERGLASS MESH IS INSTALLED.



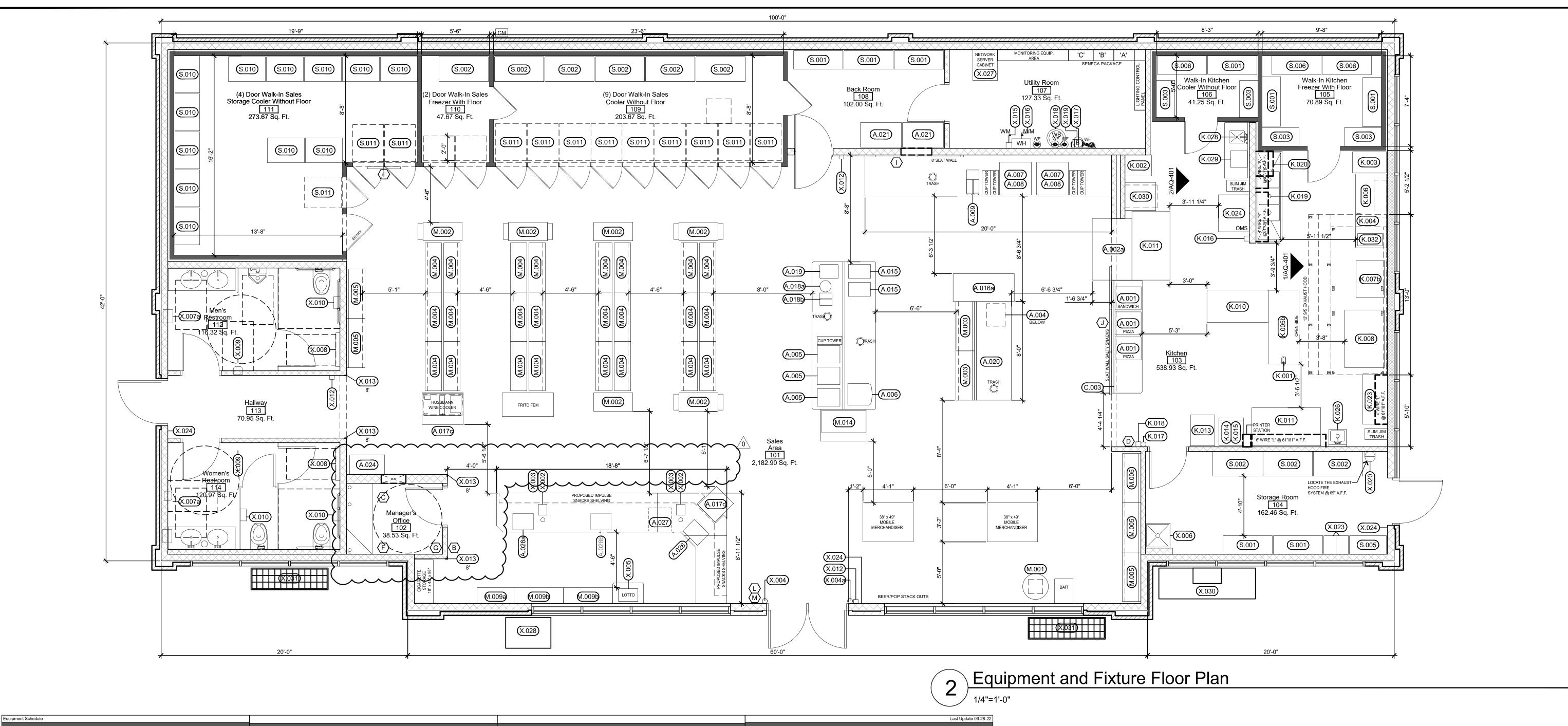


*	SCHEM	MER
Caconie	Design with Purpose. But	
CHIEGO	1044 North 115th Street, Suite 300	COA Number
	Omaha, NE 68154	CA0666
ASFY'S GENERAL STORE	0 PUBLISHED: DRAW 10/13/2023	VING INFORMATION:

INSTALLATION, ON CRACK ISOLATION BARRIER, SEE SPECIFICATION. 1/4" GROUT JOINTS. GROUT: #47 (CHARCOAL) CASEY'S GENERAL STURE MO-150 & ARBORIDGE DR VCT TILE AND GLUE SUPPLIED BY CASEY'S LEE'S SUMMIT, MO 2023 - U4 - V.01 **VINYL TILE: ARMSTRONG TILE.** PRODUCT CODE ARM 51908 PEWTER. 12"x12" 07164.057

JLN

CERAMIC TILE FLOORING PLAN A-701

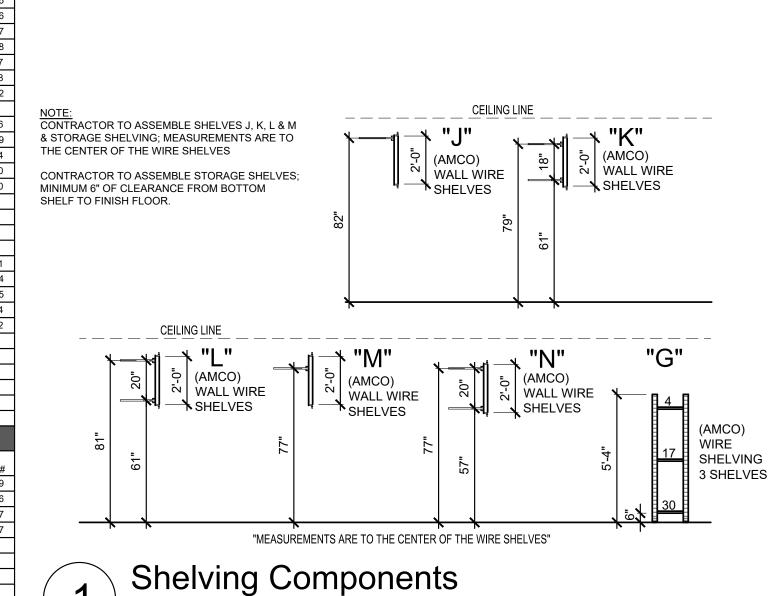


X - OTHER APPLIANCE K - KITCHEN M - MERCHANDISING PART # NOTE DESCRIPTION MANUFACTURE MODEL NUMBER CGS MANUFACTURE | MODEL NUMBER NOTE DESCRIPTION MANUFACTURE MODEL NUMBER NOTE DESCRIPTION NOTE DESCRIPTION MANUFACTURE MODEL NUMBER 0773 K.001 MANUAL CAN OPENER 801000 M.001 SUNGLASS SPINNER A.001 | SELF-SERVE PIZZA WARMERS X.002 MICROPHONE / INTERCOM .001a SELF-SERVE SANDWICH WARMERS 00774 K.002 TRAY RACK / BREAD RACK 601703 M.002 3' END CAP NEWAGE 6301 LOZIER A.002 SUB/PREP CASE Q3-SP-6R M.003 16"X48"X48" SHELVING X.003 CREDIT CARD MACHINE 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 640700 M.008b 4'x63.5" CIGARETTE RACK CHAERER 30107 K.006 6' STAINLESS STEEL LH FRYER TABLE JOHN BOOS CGS--DA72-OS-DL 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 A 36" X 48" VERTICAL GNG-HPRO-4 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" VERTICAL 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 ARC-XL-30400 A.028a CASH REGISTER #2 K.029 MANUAL VEGETABLE SLICER 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

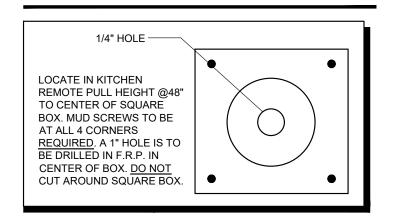
ZERO ZONE RVZC30

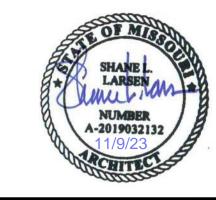
31 2 DOOR FREEZER

K.033 STAINLESS STEEL TENDR. FRYER CART VOLRATH 97125

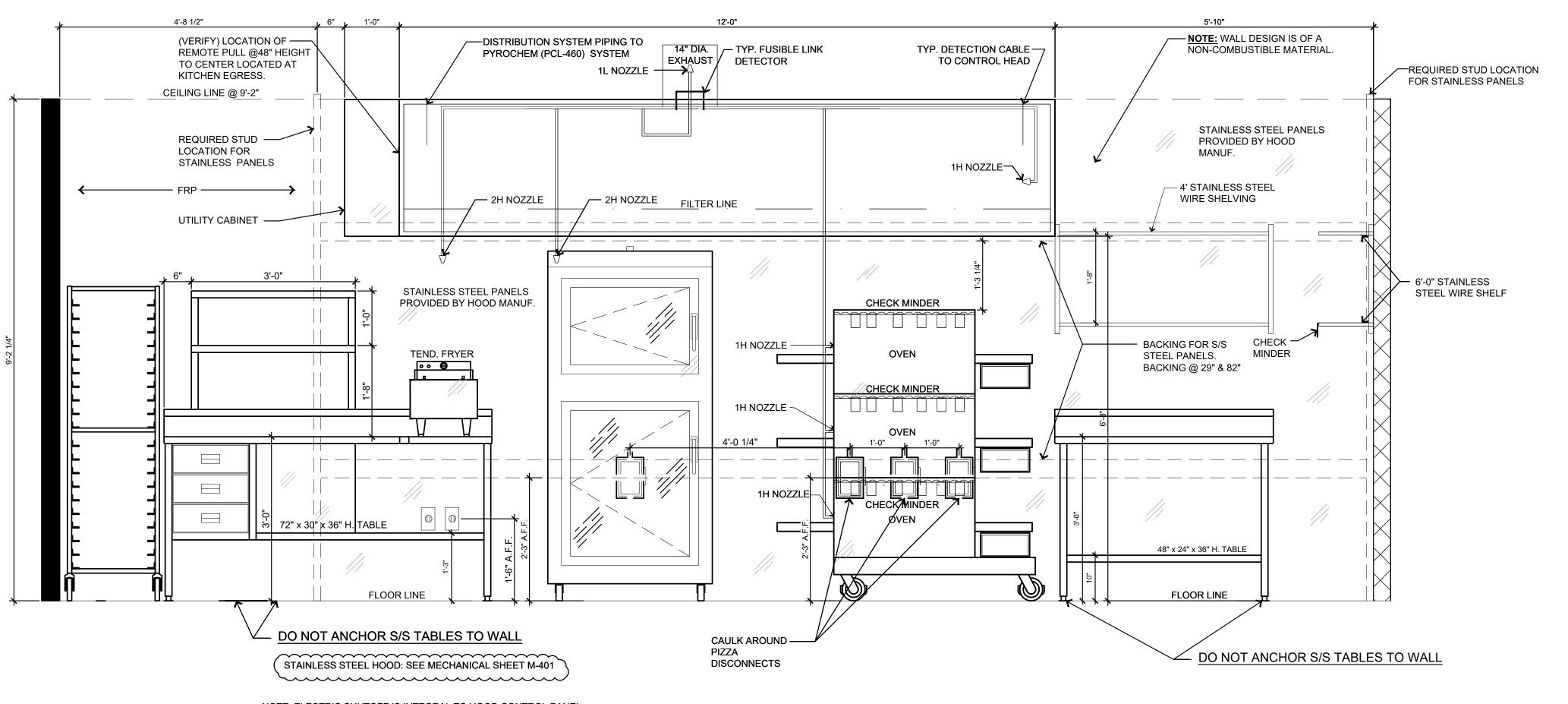












NOTE: ELECTRIC SHUTOFF IS INTEGRAL TO HOOD CONTROL PANEL 4.6 - GALLON EXHAUST FIRE SYSTEM COMPLIANT

- 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.

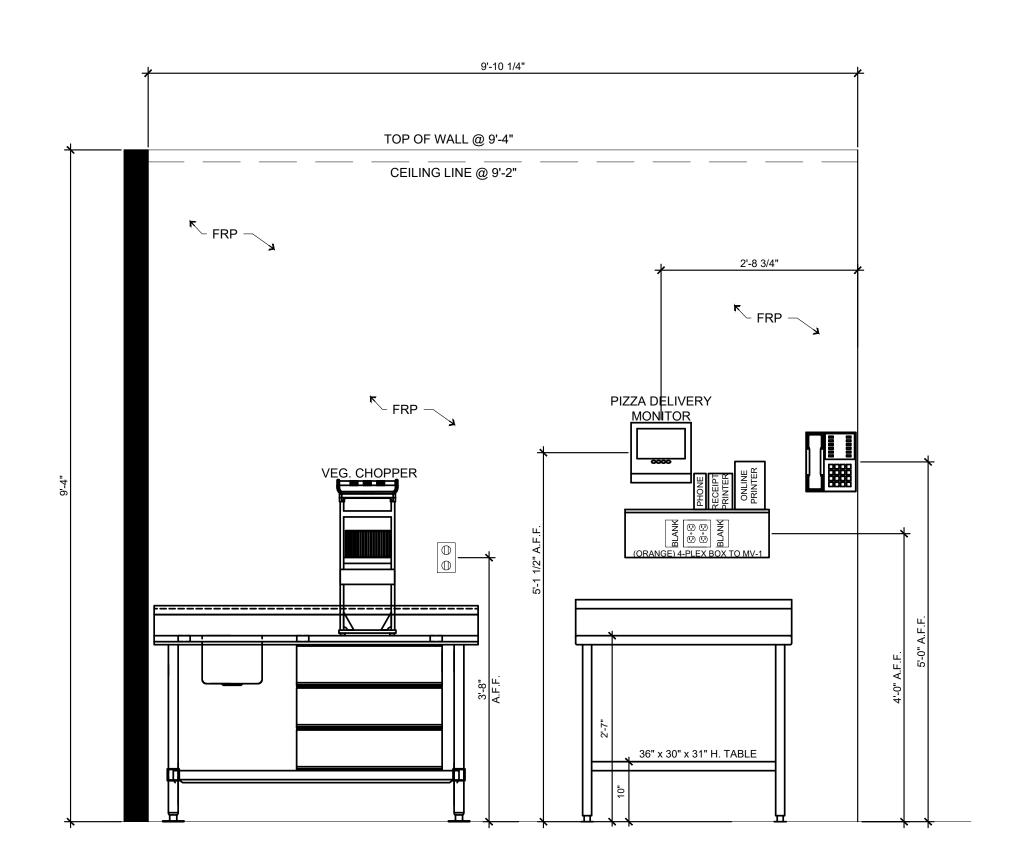
 3.) REMOTE MANUAL RELEASE ASSEMBLY TO BE MOUNTED @48" IN COMPLIANCE WITH N.F.P.A. 17-A 2017 EDITION. OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

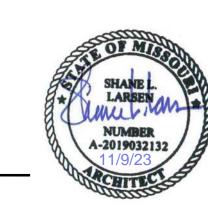
CONTRACTOR NOTE:
ROLLER IN KITCHEN IS TO BE BOLTED TO
S/S TABLE. SET ROLLER AS FAR BACK AS
POSSIBLE AND ANCHOR UP THRU LEGS.

 $(1)^{\frac{1}{2}}$

Kitchen Wall Elevation

3/4"=1'-0'





<u>3</u>	SCHEMI	M=R
Casey's	Design with Purpose. Au 1044 North 115th Street, Suite 300 Omaha, NE 68154	
JECT:	PUBLISHED: DRAW	WING INFORMATION:

PROJECT:

CASEY'S GENERAL STORE

MO-150 & ARBORIDGE DR

LEE'S SUMMIT, MO

2023 - U4 - V.01

PROJECT NUMBER:

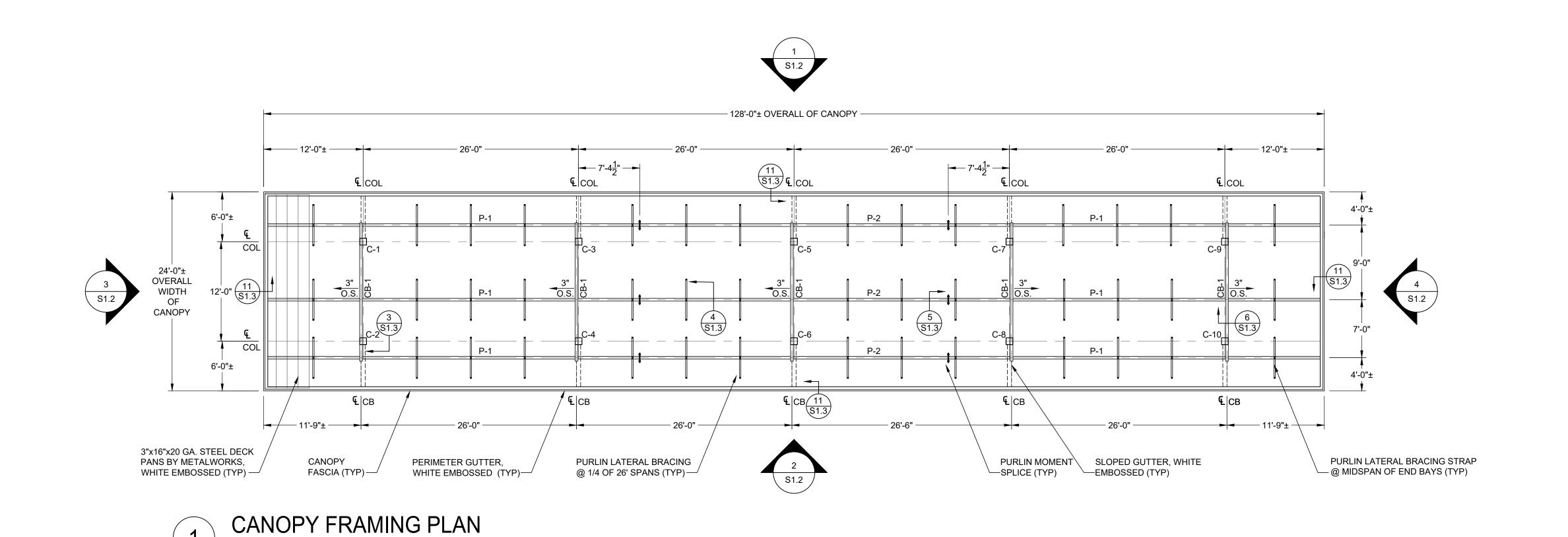
07164.057

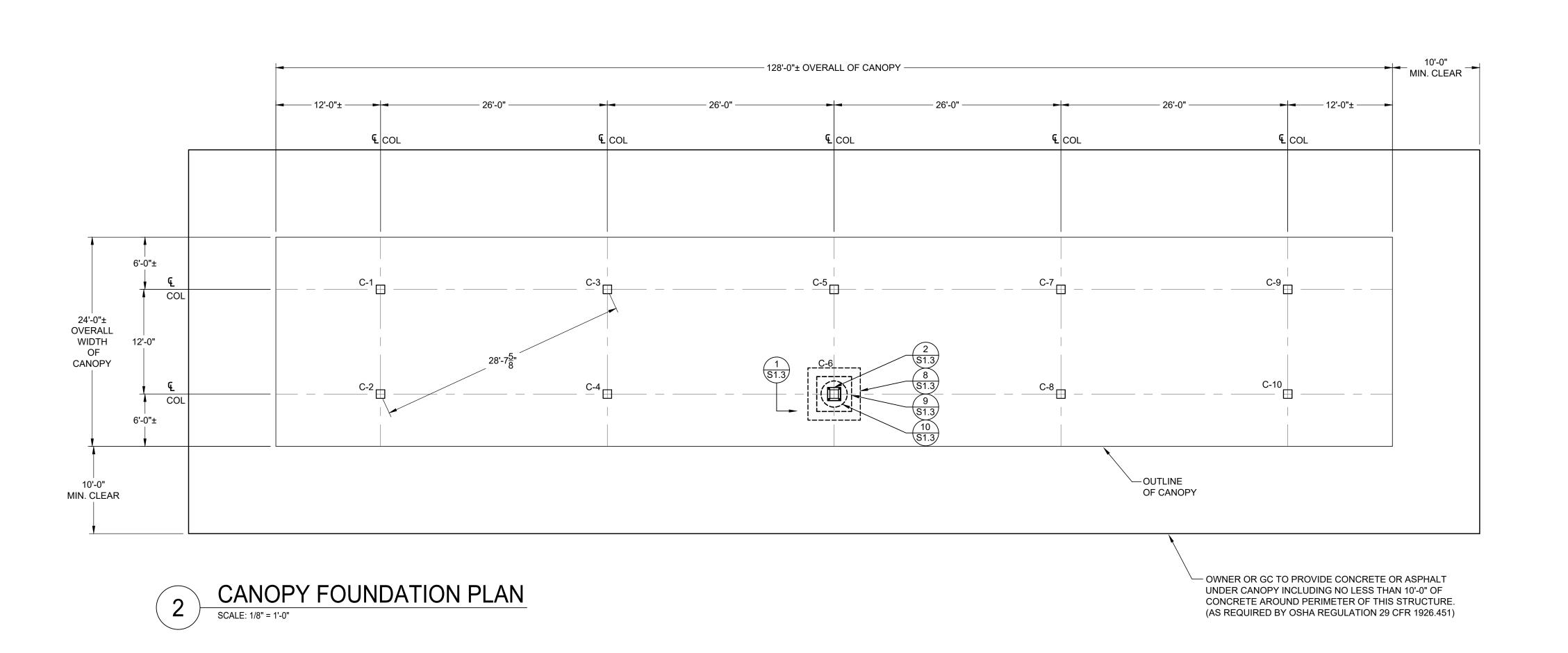
KITCHEN WALL
INTERIOR
ELEVATION

AQ-401

2 Kitchen Wall Elevation

mmer\drive\Projects\07164057_CAD\Arch\05_AQ-4





	ВУ							
	DATE							
PART#	SIZE	QUANTITY						
C-1	10"x10"x1/4"	1						
C-2	10"x10"x1/4"	1	NO.					
C-3	10"x10"x1/4"	1	DESCRIPTION					
C-4	10"x10"x1/4"	1	SR.					
C-5	10"x10"x1/4"	1]ES					
C-6	10"x10"x1/4"	1						
C-7	10"x10"x1/4"	1						
C-8	10"x10"x1/4"	1	REV			<u> </u>		
C-9	10"x10"x1/4"	1		022	MS	/FK		5
C-10	10"x10"x1/4"	1	AS NOTED	08/02/2022	G. WILLIAMS	SC/SH/FK		19367-00
CB-1	W8X10#	5	AS	08/(₹	SC		9
P-1	W10X12#	6			(G)			
P-2	3			'N BY	D BY		# UN	
OUEET NOTEO					Z	ŒD		Ž

SHEET NOTES

ALL CONDUITS INSIDE COLUMNS WILL REQUIRE A 3"X5" INSPECTION HOLE TO BE SHOP CUT AND LOCATED WITH ITS CENTERLINE AT THE TOP OF THE SEAL OFF. ALL COLUMNS, WITH OR WITHOUT CONDUITS, WILL HAVE A STANDARD ARNING COVERPLATE INSTALLED AT THE SAME ELEVATION. TOUCH-UP PRIMER AT THE INSPECTION HOLE OPENING AFTER SHOP CUTS HAVE BEEN COMPLETED.



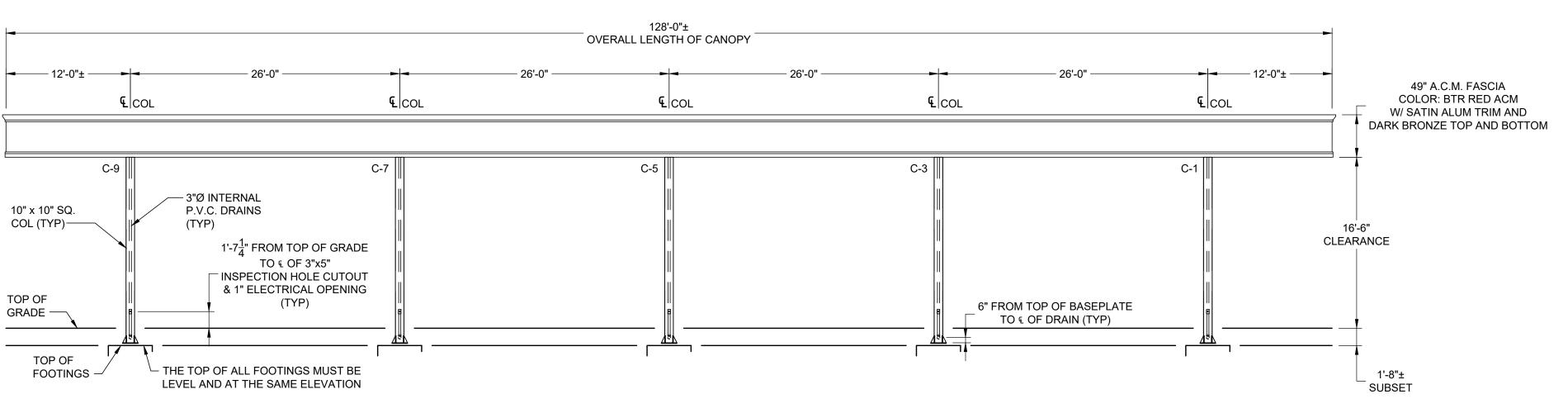




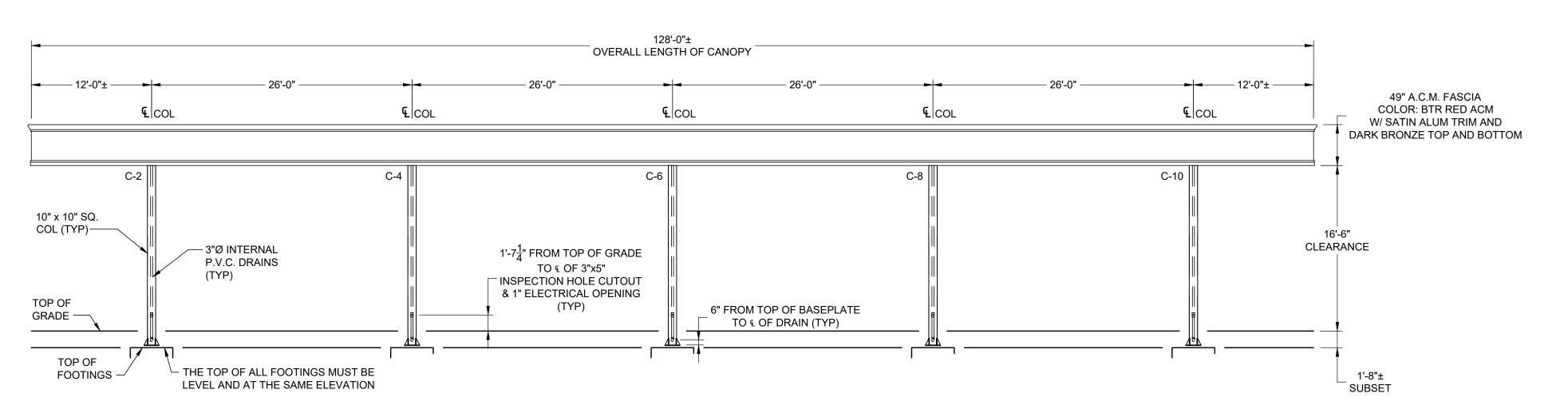


FRAMING & FOUNDATION PLAN

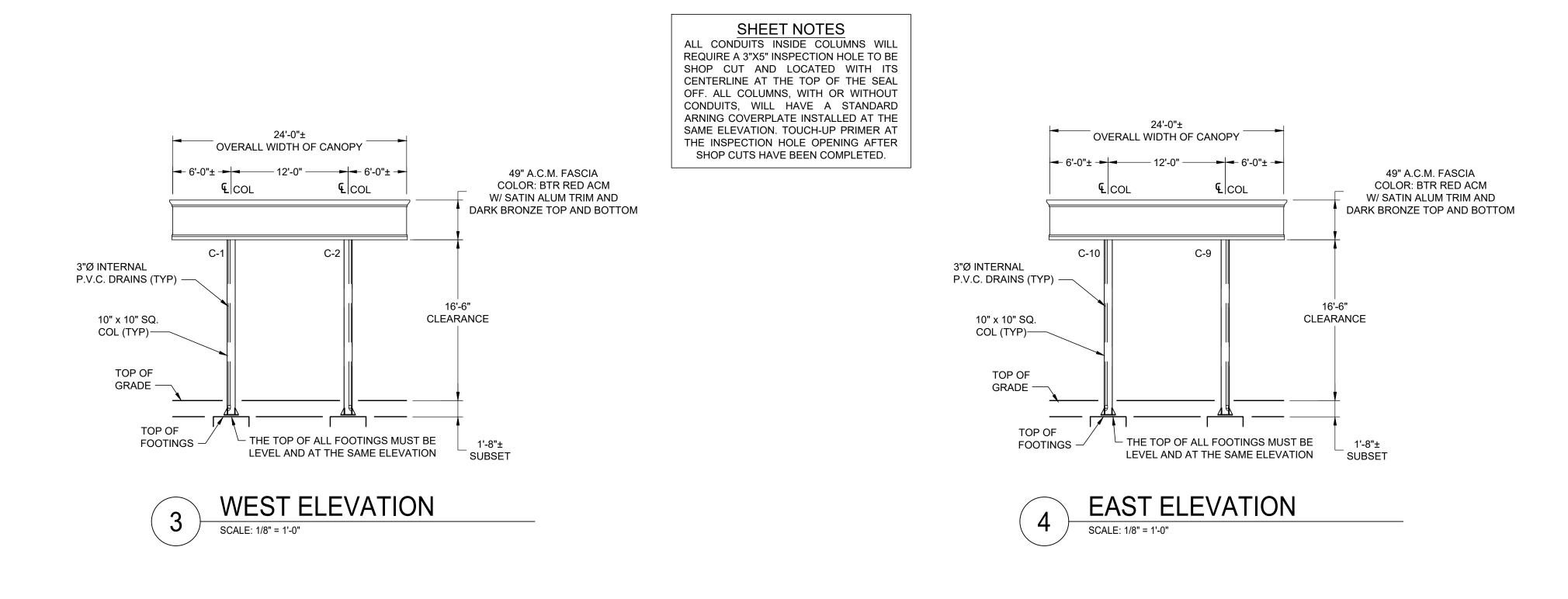
COLUMNS WITH VENT LINES WILL REQUIRE RED INSPECTION HOLE COVERS



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

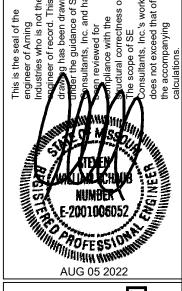


2 SOUTH ELEVATION SCALE: 1/8" = 1'-0"



 SCALE
 AS NOTED
 REV
 DESCRIPTION
 DATE
 B

 DATE
 08/02/2022
 ARNILIAMS
 ARNING # 19367-DO
 AR





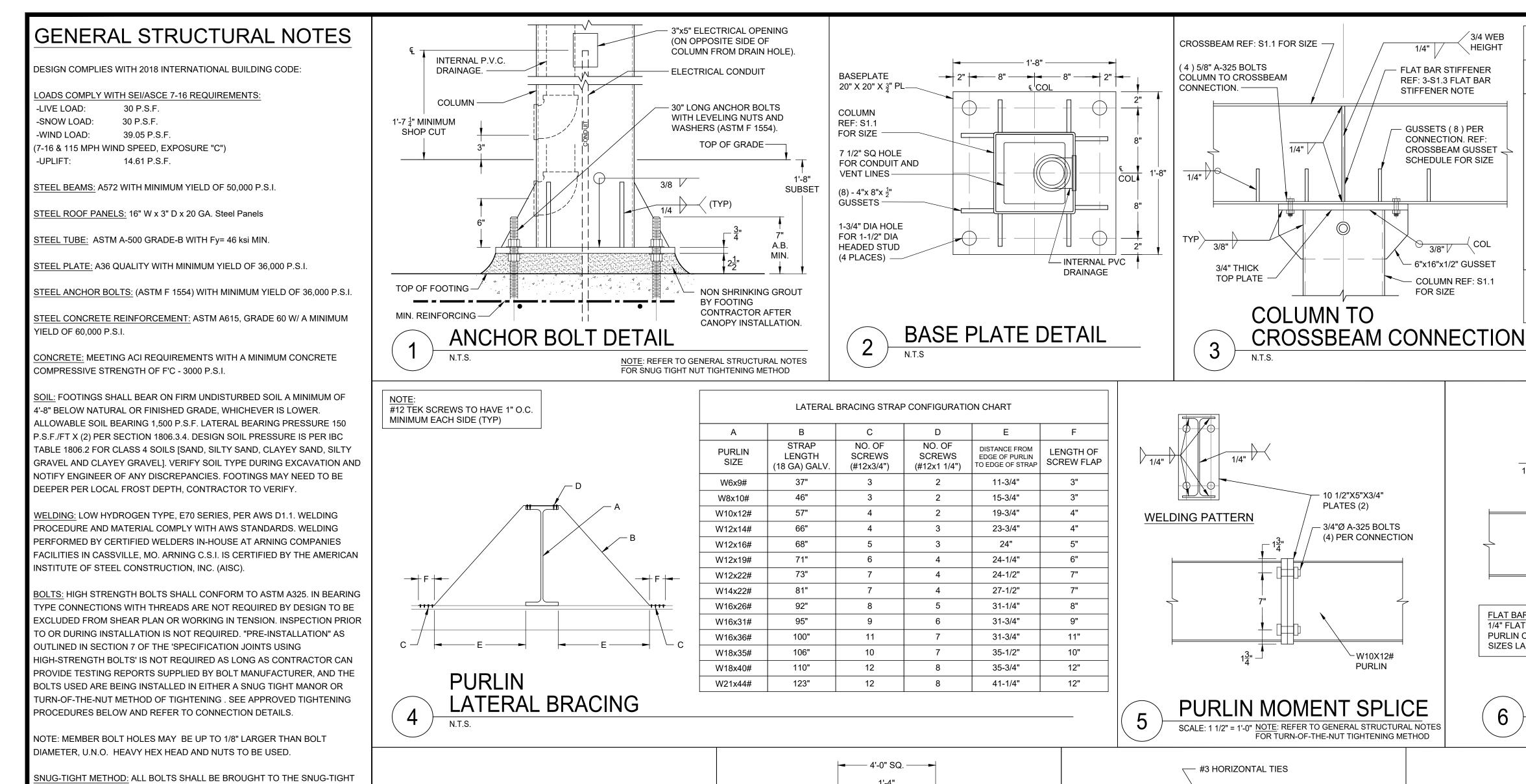


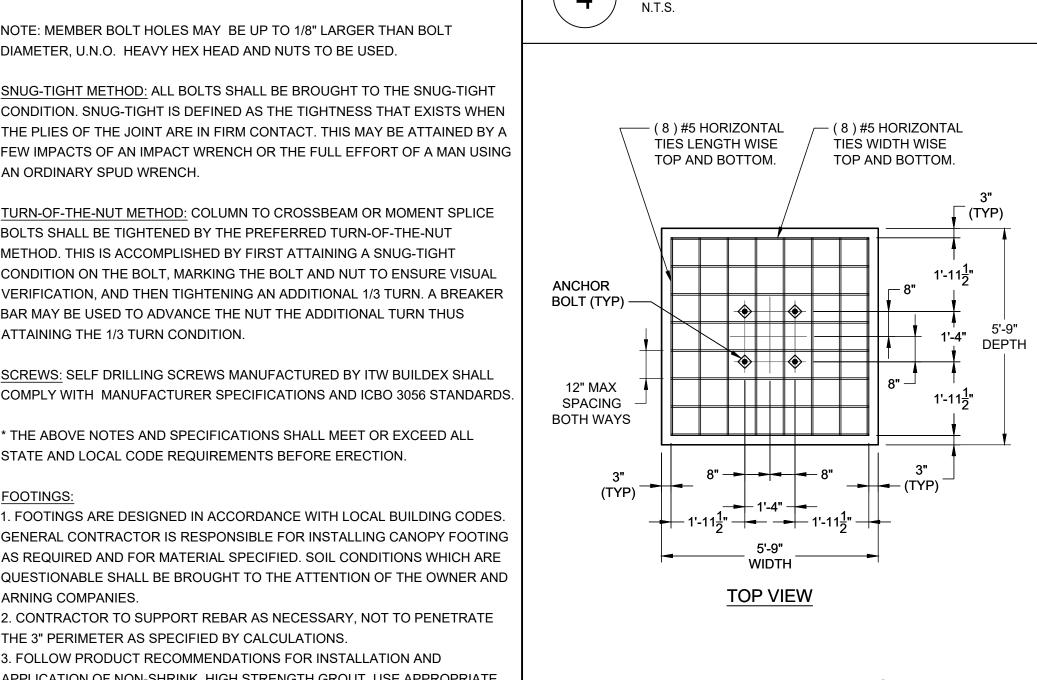
BOB SELBY CASEY'S GENERAL STORES 3305 SE DELAWARE AVE ANKENY, IA 50021

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

CANOPY ELEVATIONS

19367 S1.2





CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN

THE PLIES OF THE JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY heta

TURN-OF-THE-NUT METHOD: COLUMN TO CROSSBEAM OR MOMENT SPLICE

CONDITION ON THE BOLT, MARKING THE BOLT AND NUT TO ENSURE VISUAL

VERIFICATION, AND THEN TIGHTENING AN ADDITIONAL 1/3 TURN. A BREAKER

SCREWS: SELF DRILLING SCREWS MANUFACTURED BY ITW BUILDEX SHALL

 $^{\scriptscriptstyle\mathsf{t}}$ THE ABOVE NOTES AND SPECIFICATIONS SHALL MEET OR EXCEED ALL

FOOTINGS ARE DESIGNED IN ACCORDANCE WITH LOCAL BUILDING CODES.

AS REQUIRED AND FOR MATERIAL SPECIFIED. SOIL CONDITIONS WHICH ARE

QUESTIONABLE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND

2. CONTRACTOR TO SUPPORT REBAR AS NECESSARY, NOT TO PENETRATE

APPLICATION OF NON-SHRINK, HIGH STRENGTH GROUT. USE APPROPRIATE

3. FOLLOW PRODUCT RECOMMENDATIONS FOR INSTALLATION AND

PSI GROUT STRENGTH TO ACHIEVE NEEDED APPLICATION DEPTH.

STATE AND LOCAL CODE REQUIREMENTS BEFORE ERECTION.

THE 3" PERIMETER AS SPECIFIED BY CALCULATIONS.

BOLTS SHALL BE TIGHTENED BY THE PREFERRED TURN-OF-THE-NUT

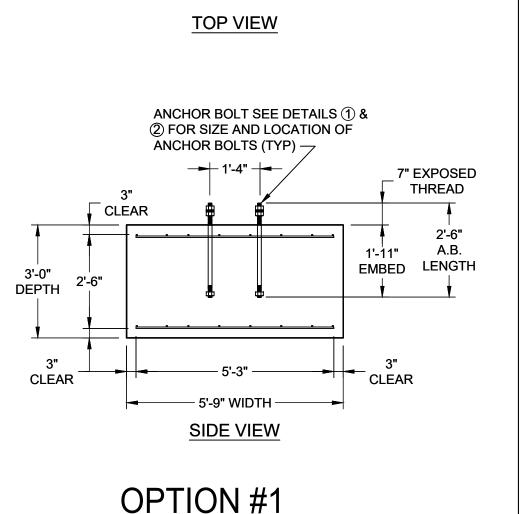
METHOD. THIS IS ACCOMPLISHED BY FIRST ATTAINING A SNUG-TIGHT

BAR MAY BE USED TO ADVANCE THE NUT THE ADDITIONAL TURN THUS

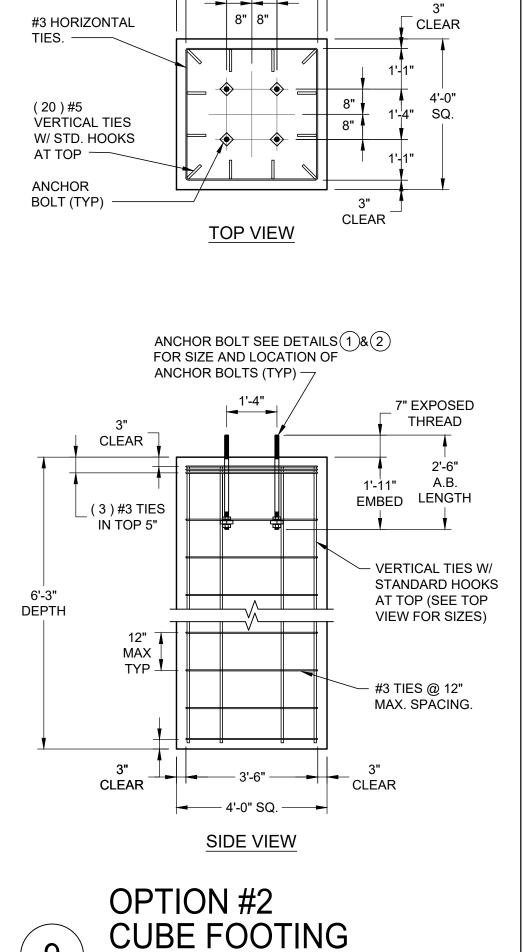
AN ORDINARY SPUD WRENCH.

ATTAINING THE 1/3 TURN CONDITION.

ARNING COMPANIES.

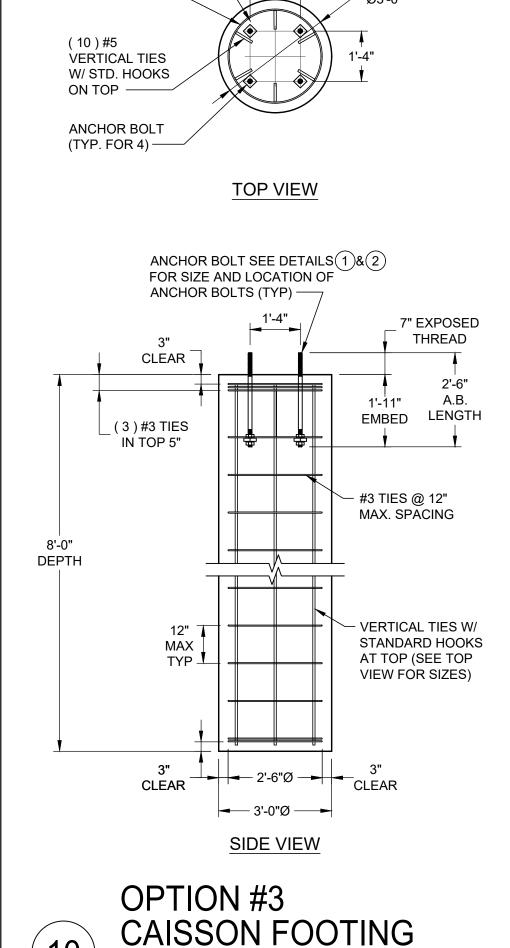


SPREAD FOOTING



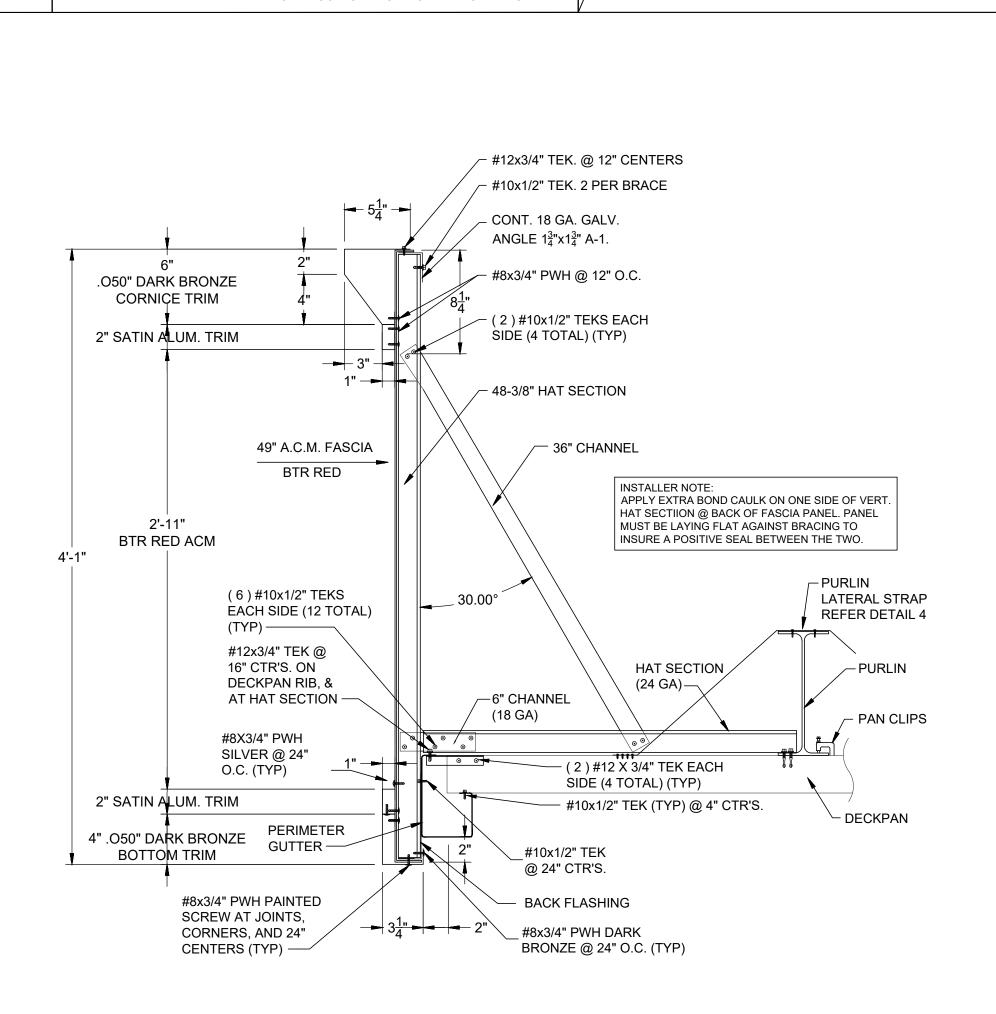
1'-4"

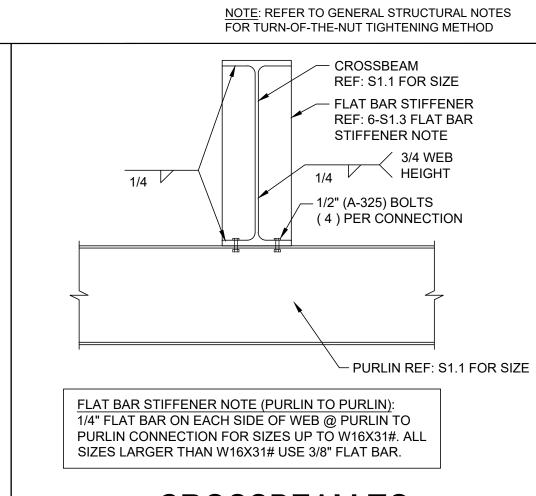
CLEAR



#3 HORIZONTAL

TIES. -





CROSSBEAM GUSSET SCHEDULE

3" X 1-3/4" X 1/4" GUSSET

W6x9#

W8x10#

W10x12#

W12x14#

W12x16#

W12x19#

FLAT BAR STIFFENER NOTE (COL TO CB):

1/4" FLAT BAR ON EACH SIDE OF WEB @ COL. TO

CROSSBEAM CONNECTION FOR WEIGHTS UP TO 31#.

ALL SIZES HEAVIER THAN 31# TO USE 3/8" FLAT BAR.

4" X 2-1/2" X 1/4" GUSSET

W14x22#

W16x26#

W16x31#

W16x36#

W18x35#

W18x40#

W18x50#

W21x44#

W24x55#

W24x62#

/ 3/4 WEB

HEIGHT

FLAT BAR STIFFENER

REF: 3-S1.3 FLAT BAR

GUSSETS (8) PER

CONNECTION. REF:

CROSSBEAM GUSSET

SCHEDULE FOR SIZE

6"x16"x1/2" GUSSET

- COLUMN REF: S1.1

STIFFENER NOTE

CROSSBEAM TO

FASCIA SECTION

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

IOTE: REFER TO GENERAL STRUCTURAL NOTES OR SNUG TIGHT NUT TIGHTENING METHOD

NOT IN USE

TYPICAL CONSTRUCTION **DETAILS & NOTES**

19367

S1.3

GENERAL STRUCTURAL NOTES

Governing Building Code:

Design Loads:

Gravity:

Roof Live Load	20 ps
Ground Snow Load, Pg.	20 ps
Roof Snow Load, Pf (Includes Rain on Snow)	25 ps
Exposure Factor, Ce Importance Factor, Is Thermal Factor, Ce	1.0
Importance Factor, Is	1.0
Thermal Factor, Ce	

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:

.+0.18, -0.18

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

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

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.

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-prequalified or unauthorized welds will not be accepted.

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.

Seisiii

Internal Pressure Coefficient.

Seismic Importance Factor	1.0
Mapped Spectral Response Acceleration, Ss	0.100
Mapped Spectral Response Acceleration, S1	0.068
Site Class	D
Spectral Response Coefficient, SDS	
Spectral Response Coefficient, SD1	
Seismic Design Category	
Basic Seismic Force Resisting System	
Response Modification Factor, R	
Analysis Procedure	

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.
- 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.
- 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
- drawings.
 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:

- 1. 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	nt	Air
	<u>Strength</u>	<u>Ratio</u>	<u>Slump</u>	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.
- 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.
- 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:

- 1. Materials shall comply with the following:
- a. Reinforcing steel, all bars, shall be ASTM A615, Grade 60.
- Detail bars in accordance with the "Manual of Standard Practice for Detailing Reinforced Structures" ACI
 and "Ruilding Code Reinforced Congrets" ACI 218
- 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.

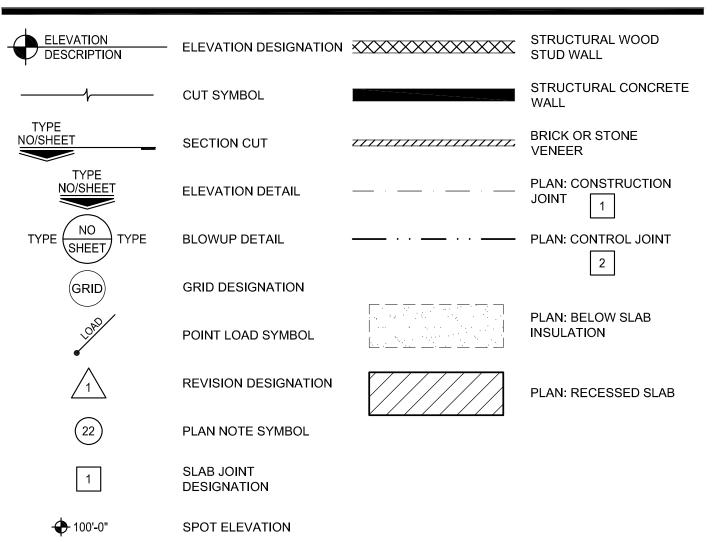
Anchors:

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

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

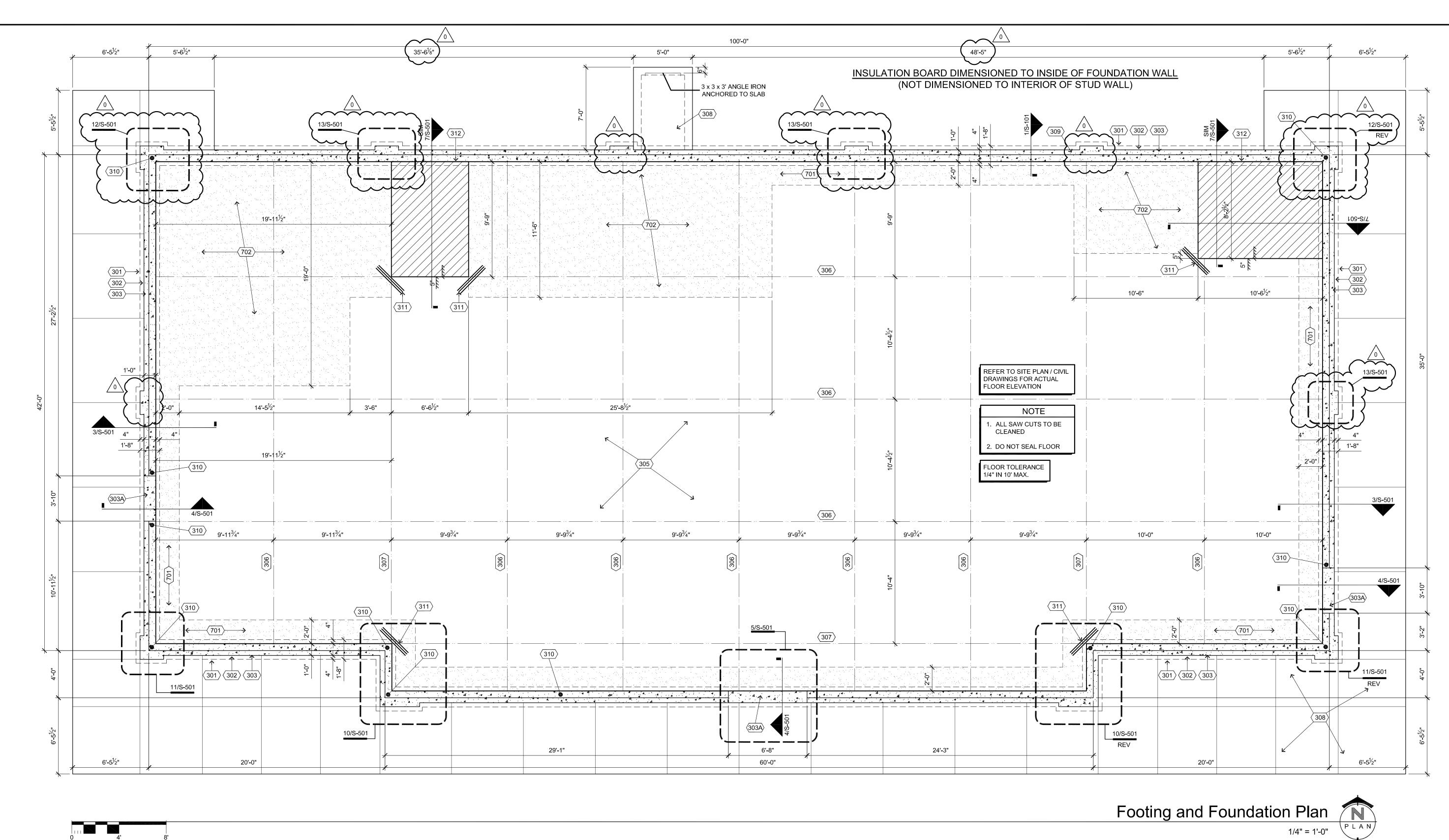
	SPECIAL I	NSPEC	TION	S
SCOPE OF	INCOFCTION TACK	INSPECTION	FREQUENCY	BUILDING CODE
WORK	INSPECTION TASK	CONTINUOUS	PERIODIC	REFERENCE
	VERIFY CAPACITY OF BEARING MAT'LS		Х	TABLE 1704.7.1
	VERIFY EXCAV. PROPER DEPTH & ABLE TO REACH PROPER MAT'LS		Х	TABLE 1704.7.2
SOILS	CLASSIFICATION & TESTING OF CONTROLLED 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	X		TABLE 1704.4.3.
CONCRETE	VERIFICATION OF REQ'D MIX		X	TABLE 1704.4.4.
CONCRETE	CONCRETE SAMPLING	X		TABLE 1704.4.5.
	CONCRETE PLACEMENT	X		TABLE 1704.4.6.
	CURING TEMPERATURE & TECHNIQUES		Х	TABLE 1704.4.7.
WOOD TRUSSES	TEMPORARY INSTALLATION RESTRAINT/BRACING AND PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING.		Х	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.



Caseys	Design with Purpose Street, Suite 300	D. 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: 1/24/2024	GENERAL STRUCTURAL NOTES & REQUIREMENTS
PROJECT NUMBER: 07164.057 DRAWN BY: KMW CHECKED BY: JJH		S-001

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- 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
- P-102: SUPPLY PLUMBING PLAN E-103: UNDERGROUND CONDUIT PLAN

END OF CONTROL JOINT TERMINATIONS

- **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
- 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

Construction Notes

DIVISION 3 - CONCRETE

- (301) SPREAD FOOTING: 1'-8" REINFORCED CONCRETE FOOTING (TYPICAL); SEE (308) SIDEWALK: REINFORCED CONCRETE WALK WITH TURN-DOWN EDGES 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.

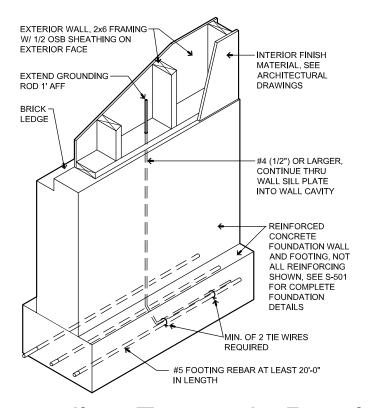
- CONCRETE SLAB: 5" REINFORCED CONCRETE SLAB OVER 6" BED OF CRUSHED ROCK, POUR SLAB TO FOUNDATION EDGE AND LEVEL WITH TOP OF FOUNDATION, ALLOWABLE TOLERANCE 1/4" IN 10' MAX; (CONTRACTOR WILL BE BACK BILLED FOR LABOR & MATERIAL IF 1/4" IN 10' MAX IS NOT **ACHIEVED)**;REINFORCE SLAB WITH 6x6-W2.1xW2.1 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)

- 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 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





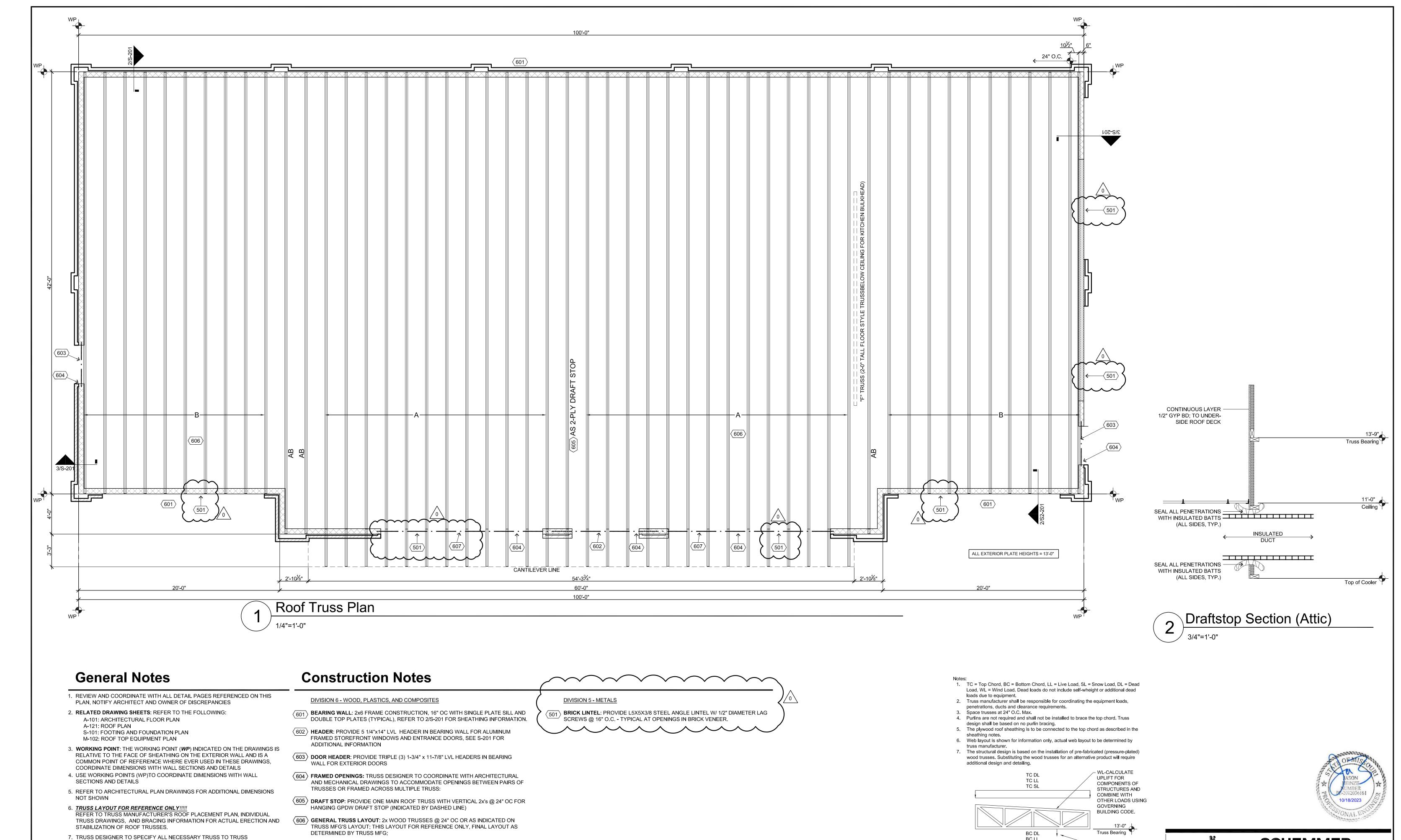


Grounding Electrode Detail

No Scale

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

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



BC LL

Truss Profile

DESIGN LOADS IN PSF

TRUSSES LOADS

TC DL

- REF MECHANICAL

FOR ADDITIONAL

1044 North 115th Street, Suite 300

<u>|</u> 10/18/2023

ROOF TRUSS PLAN

S-102

Omaha, NE 68154

JJH

CASEY'S GENERAL STORE

MO-150 & ARBORIDGE DR

LEE'S SUMMIT, MO

2023 - U4 - V.01

KMW

PROJECT NUMBER:

07164.057

MECHANICAL

LOADS.

9. PROVIDE 1'x1' BOX-OUT FOR ALL ADJUSTABLE FLOOR DRAINS

'FLAT' MECHANICAL PLATFORM.

CONNECTORS ALONG WITH TRUSS TO WALL CONNECTIONS

8. TRUSS DESIGNER TO INCLUDE ALL CONNECTION DETAILS RELATED TO

SETTING THE TRUSSES AND ATTACHING ROOF DECKING,1/2" SHEATHING

TYPICAL ON SLOPED ROOF SECTION, MINIMUM 5/8" RATED SHEATHING ON

(607) **HEADER**: PROVIDE 5-1/4" x 18" LVL/PSL 2.0E HEADER IN BEARING WALL FOR

DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING

COORDINATE INSTALLATION, RE: MECHANICAL DRAWINGS

INSTALLATION, RE: MECHANICAL DRAWINGS

INFORMATION

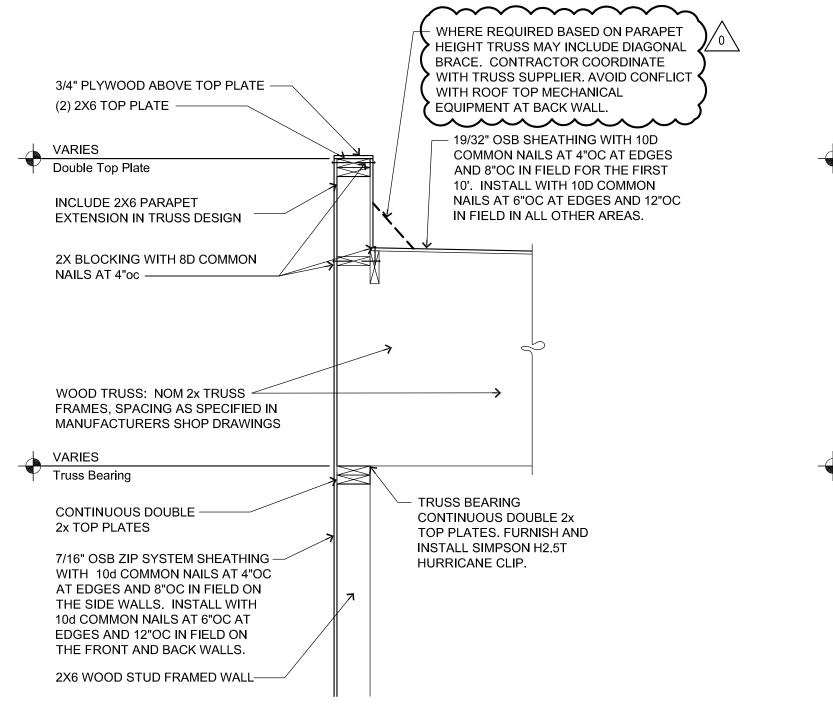
ALUMINUM FRAMED STOREFRONT WINDOW. SEE S-201 FOR ADDITIONAL

 $\langle 2301 \rangle$ SUSPENDED EQUIPMENT LOAD: TRUSS DESIGNER TO ALLOW FOR EQUIPMENT

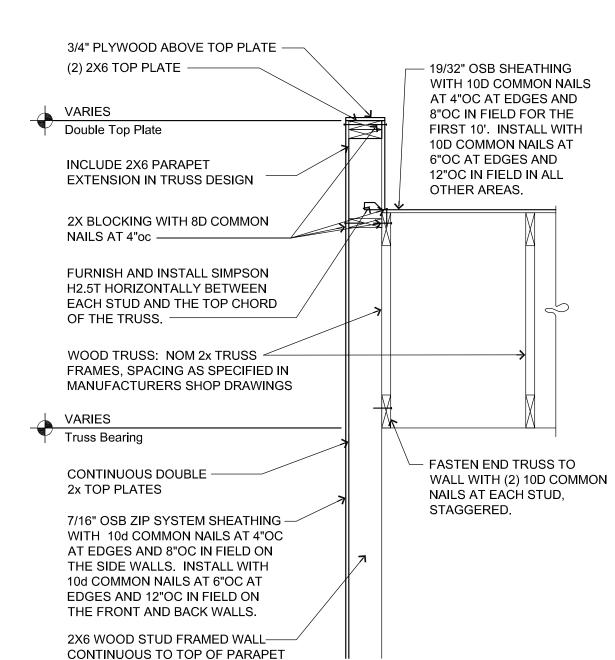
LOADS SUSPENDED FROM TRUSSES, CONTRACTOR TO COORDINATE

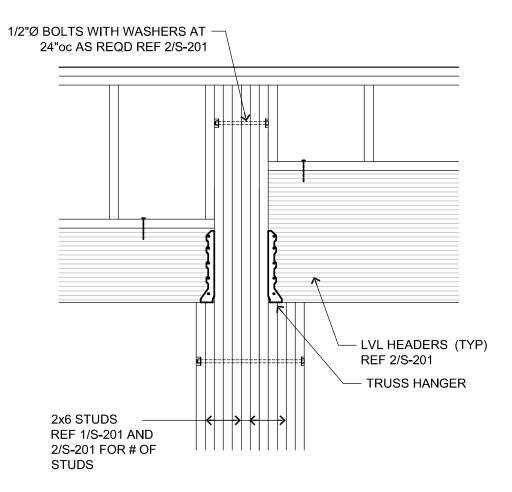
(2302) ROOFTOP EQUIPMENT LOADS: TRUSS DESIGNER TO ALLOW FOR ROOF TOP

LOADS FROM MECHANICAL EQUIPMENT SET ON ROOF, CONTRACTOR TO



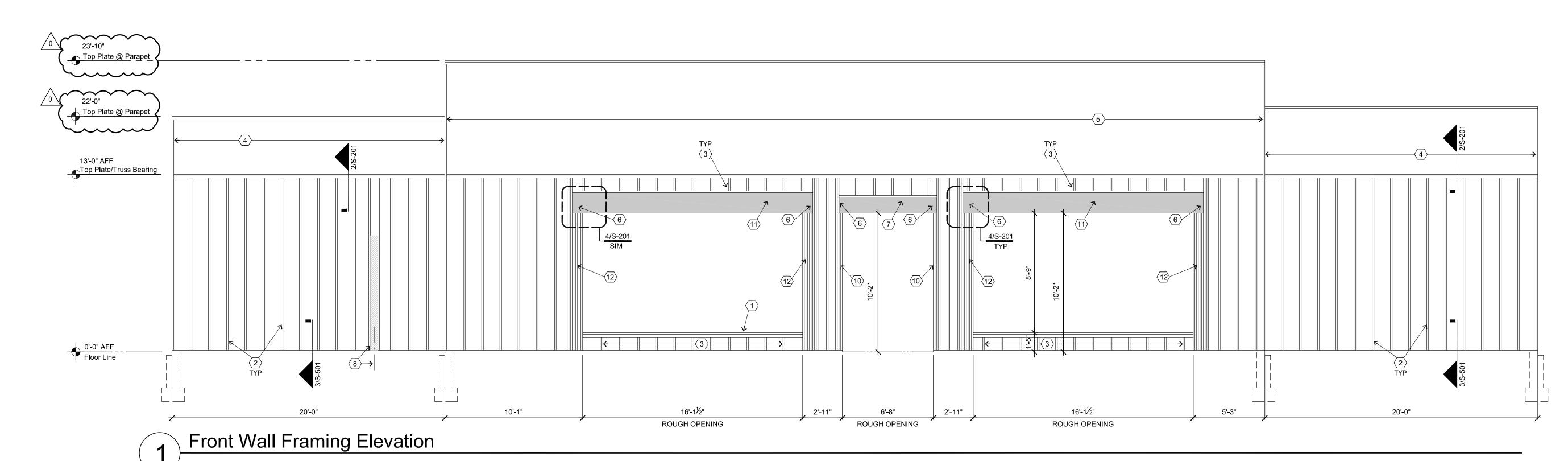
Truss Bearing On Wall











(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
- 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 HANGER WITH MAXIMUM NAILING PER SIMPSON (22-16D INTO FACE, 8-16D INTO IOIST)
- 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.
- (5) JACK STUDS AND (2) FULL HEIGHT STUDS
- (2) JACK STUDS AND (2) FULL HEIGHT STUDS

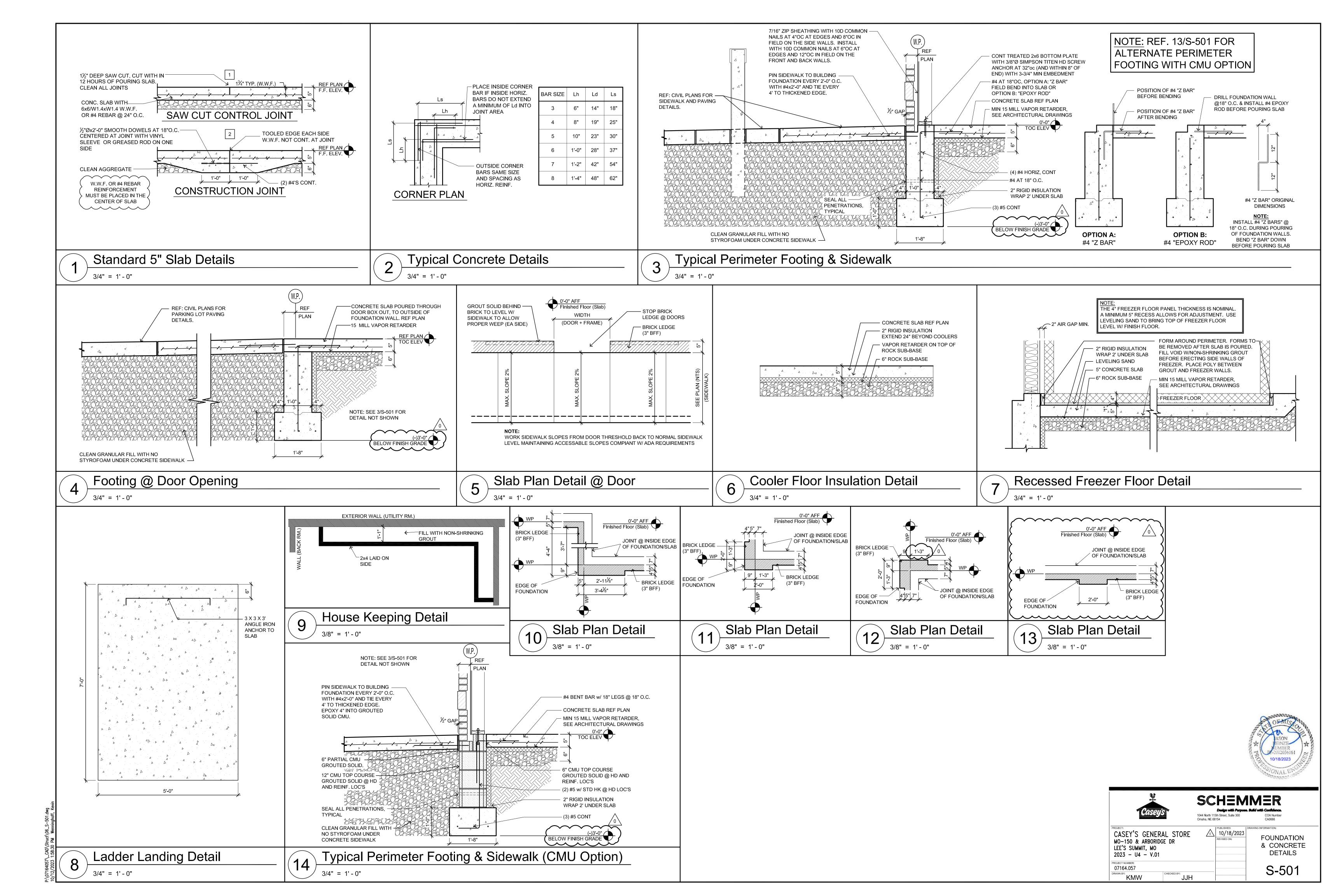
General Construction Notes

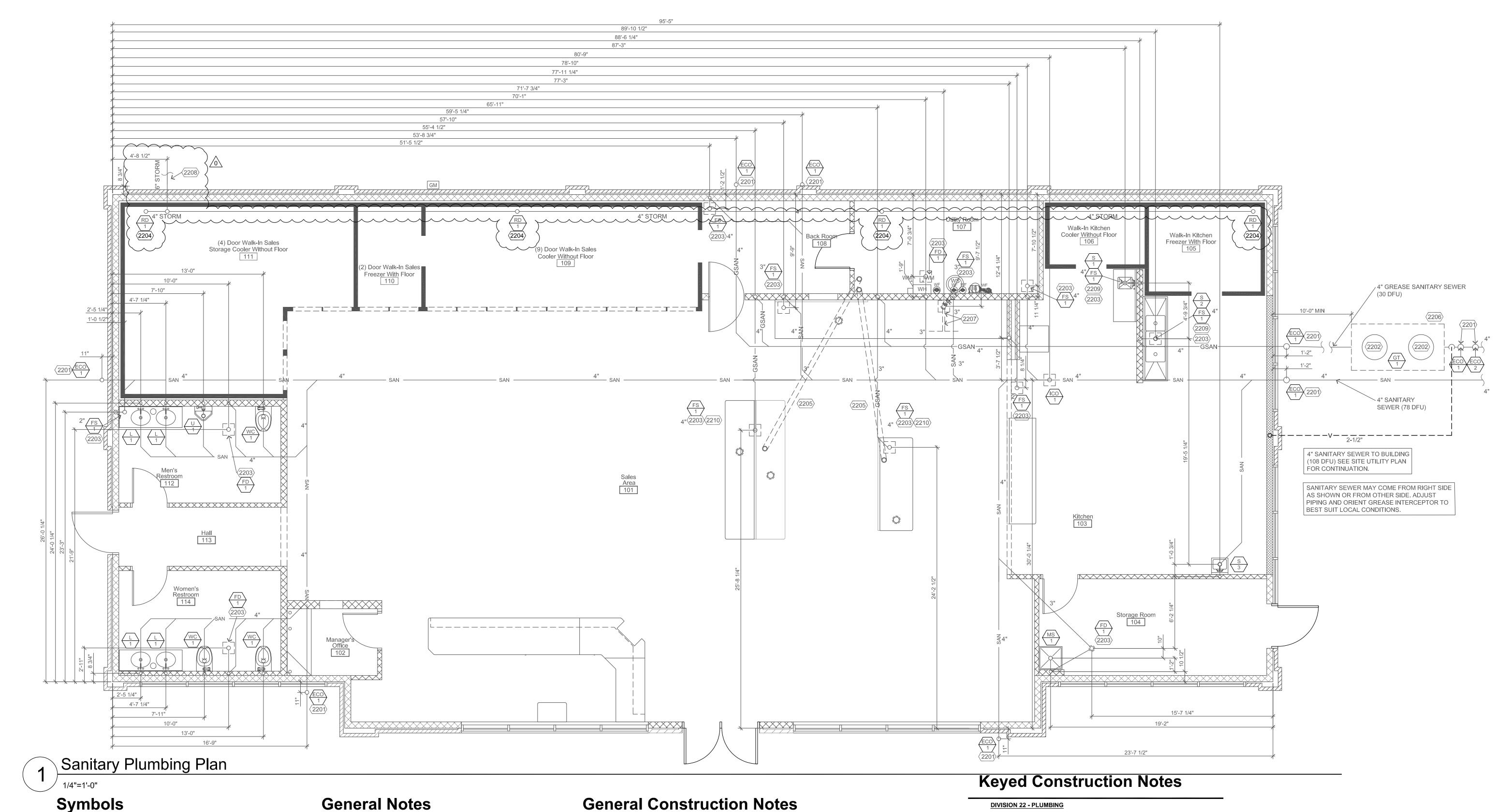
- INSULATE PARTITION SPACES BEFORE ATTACHING EXTERIOR SUB-SIDING.
- 2. INSULATE CORNERS BEFORE APPLYING EXTERIOR SUB-SIDING.
- 3. FRONT EAVE STRUT TO BE INSULATED.
- 4. VERIFY ROUGH OPENING OF DOOR AND WINDOWS SHOWN ON ELEVATION 1/A-601.
- 5. CONTRACTOR TO SUPPLY AND INSTALL 30 MIL VINYL SEAL FLASHING AT ALL LINTELS. PAINT LINTELS PRIOR TO INSTALLATION.
- 6. 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)



			A CONAL STATE
3 *			
<u>+</u>	SC	KHEN	IMER
Casens		Design with Purpos	e. Build with Confidence.
Guotgo	1044 North 11 Omaha, NE 68	5th Street, Suite 300 3154	COA Number CA0666
PROJECT:	· ^	PUBLISHED:	DRAWING INFORMATION:
CASEY'S GENERAL STO	ORF 😽	10/18/2023 REVISED ON:	EDONE MALL
MO-150 & ARBORIDGE DR		KEVISED ON.	FRONT WALL
LEE'S SUMMIT, MO			FRAMING
2023 - U4 - V.01			AND DETAILS
PROJECT NUMBER:			
07164.057			S-201
CHECKED BY:	JJH		U-201





Symbols

GREASE SANITARY SEWER SANITARY SEWER PLUMBING VENT

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

- 1. ALL PLUMBING MATERIALS AND INSTALLATION TO MEET STATE AND LOCAL CODES AND REGULATIONS
- 2. ALL DRAINS AND FIXTURES TO BE VENTED

SIZES AND LOCATIONS SUPPORTS

- 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
- 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.

- 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 (2203) 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).



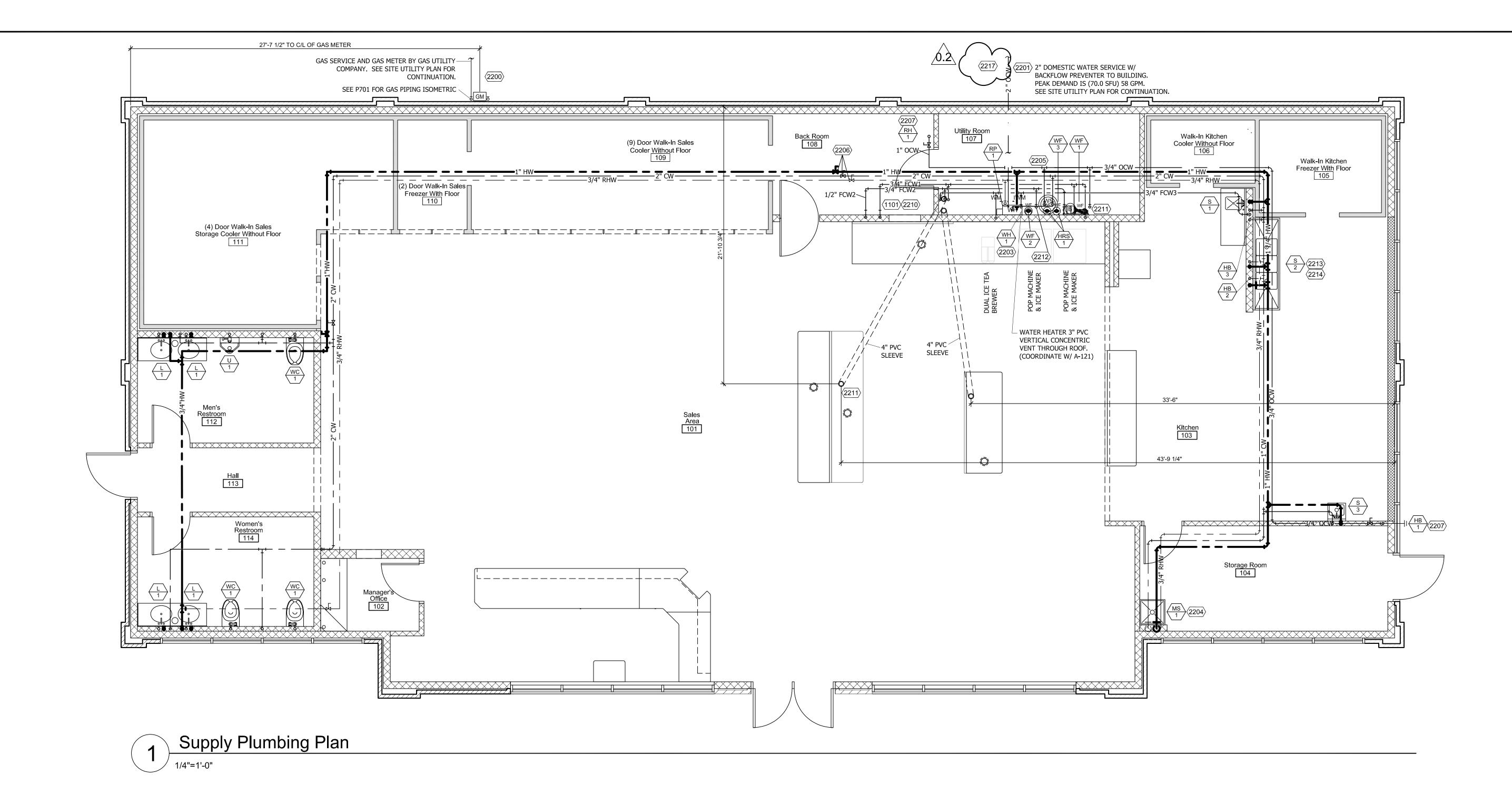


JEK

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 FCW3—HOT BEVERAGES & VEG. SINK (PEX) OCW OUTSIDE COLD WATER LINE ———— HW ———— HOT WATER LINE

RHW RECIRCULATED HOT WATER LINE

General Notes

REFER TO THE FOLLOWING SHEETS FOR RELATED INFORMATION

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

- 1. 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

(1101) CARBONATOR: PER CASEY'S EQUIP SPEC, W/ BACK FLOW PREVENTER, 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

- (2200) GAS SERVICE MAIN 2.5" BLACK SCHEDULE 40 (THREADED & COUPLED)SCREWED PIPE AND 150# BLACK MALLEABLE IRON FITTINGS. VERIFY WITH LOCAL, STATE AUTHORITY.
- (2201) 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
- 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
- (2211) **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
- (2213) WATER SUPPLY LINES TO INCLUDE UNIONS AFTER BALL VALVE TO TRIPLE SINK FAUCET.
- $\langle 2214
 angle$ no plumbing allowed under triple sink drain boards.
- (2217) CONTRACTOR TO PROVIDE PRESSURE REDUCING VALVE AT WATER SERVICE



3	SC	HEN	IMER
Casey's		th Street, Suite 300	D. 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: 04/05/2024	SUPPLY PLUMBING PLAN
PROJECT NUMBER: 07164.057			P-102

General Water Filter Notes

FINISH GRADE ---

BUILDING DRAIN OR -

SEWER MATERIAL AND SIZE AS SPECIFIED

Cleanout Detail

√ Not To Scale

- 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

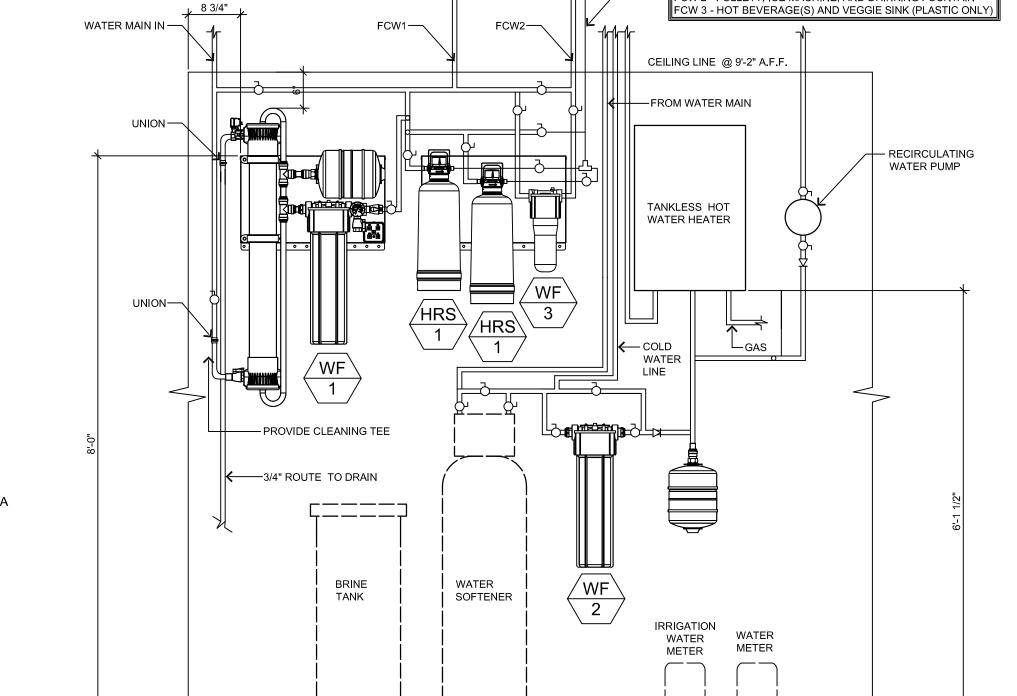
(101) WOOD STUD WALL. SEE A-101, FOR WALL TYPE AND LAYOUT, A-601 FOR FINISH. PROVIDE BLOCKING FOR SINK.

DIVISION 06 - WOOD, PLASTICS AND COMPOSITES

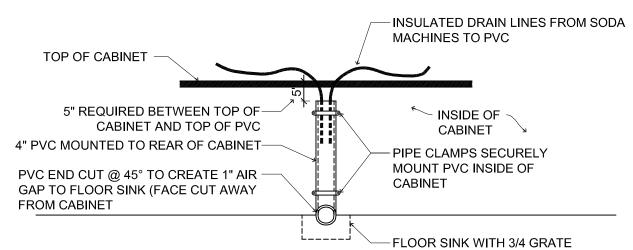
- (601) SWANSTONE SOLID SURFACE COUNTERTOP WITH INTEGRAL BOWL, INCLUDE 4" H. BACKSPLASH AGAINST WALLS AND 7" APRON AND FRONT AND OPEN SIDE. COLOR SELECTED BY OWNER.
- SWANSTONE SOLID SURFACE ANGLED BRACE ANCHORED TO CONCEALED BLOCKING IN WALL. COLOR SELECTED BY OWNER.
- $\langle 603 \rangle$ 2X WOOD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

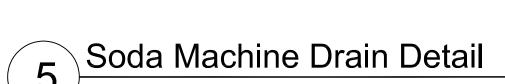
DIVISION 22 - PLUMBING

(2201) FAUCET SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR. (2202) COOLER CONDENSATE LINE. INDIRECT DRAIN TO BELL HUB W/AIR GAP LOCATED UNDER SINK.



FCW 2 - FOLLETT, ICE MACHINE, AND DRINKING FOUNTAIN



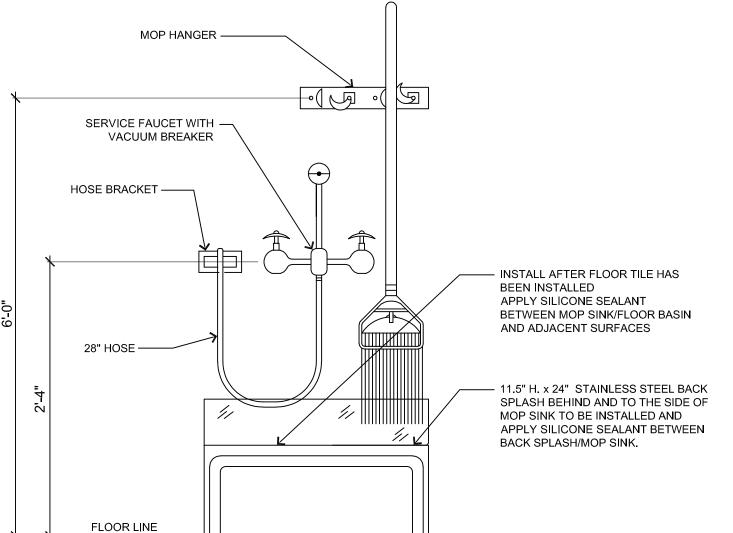




- GRADE CHRISTY BOX COVER

- CHRISTY BOX

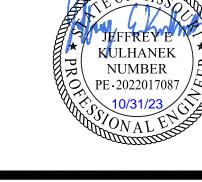
- LONG SWEEP 1/4 BEND OR COMBINATION "Y" & 1/8 BEND. (USE REDUCING TYPE WHERE



Sink Support Detail

Not Used

								PL	UMBIN	G FIXTURE SCHEDULE
ITEM	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.
FP 1	FLOOR PIPE	3"	2"		_	5		_		2" P-TRAP BELOW FLOOR WITH 2"x4" BELL. INSTALL BELL AFTER CABINET IS NET. (IN CABINETS)
FS 1	FLOOR SINK	2" 3"	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.
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.
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.
$\frac{\text{HB}}{3}$	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"	_	_		ı		HRS-200 W/ METER & HRS-200 HARDNESS REDUCTION SYSTEM. ALL PIPING & VALVES AFTER HRS FILTERS MUST BE NON-METALLIC.
(ICO)	INTERIOR CLEANOUT	_	_		_	_		_		WADE, 4" PVC ADJUSTABLE HOUSING. ROUND, FLUSH FITTING BRASS CAP.
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
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
 $\stackrel{RD}{\stackrel{}{D}}$	ROOF DRAIN	4"	_		_	_		_		ZURN Z100 OR EQUAL. PROVIDE WITH CAST IRON DOME AND UNDERDECK CLAMP.
RP 1	RECIRC. PUMP	-	_		-	-		-		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
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 41½" 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.
$\frac{S}{3}$	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
$\left\langle \begin{array}{c} U \\ 1 \end{array} \right\rangle$	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	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.
WF 3	WATER FILTER		_	3/4"		_		_		SI-LX SCALE INHIBITOR SYSTEM TO SERVICE ICE MACHINE.
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.



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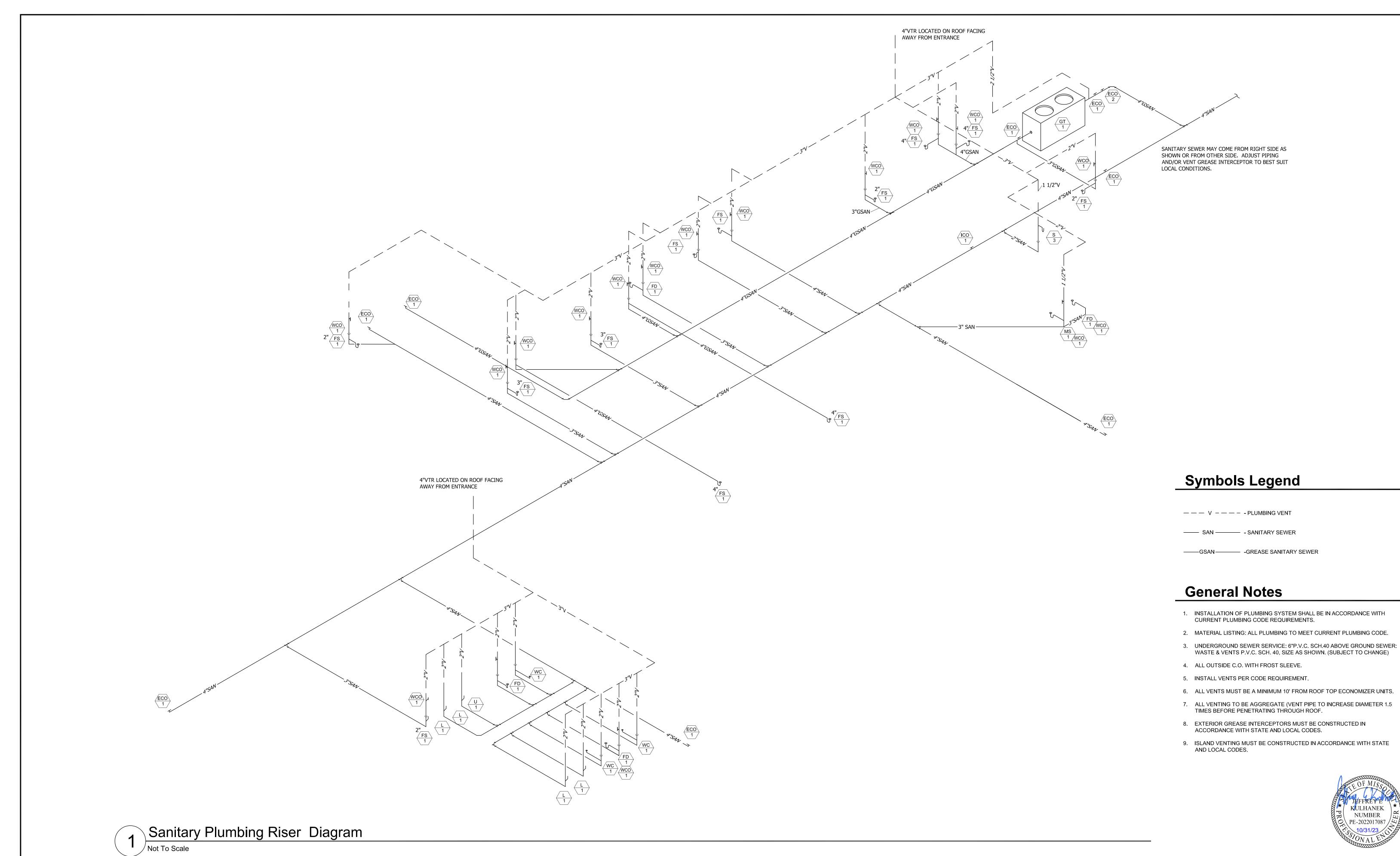
PROJECT NUMBER:

CAPPUCCINO, SELF SERVE FOUNTAIN DRINK MACHINE, COFFEE, ICE COFFEE, FROZEN CARBONATED BEVERAGE, ICE TEA

10/18/2023
10/11/2023
PLUMBING DETAILS CASEY'S GENERAL STORE
MO-150 & ARBORIDGE DR
LEE'S SUMMIT, MO & SCHEDULE 2023 - U4 - V.01 07164.057 P-501

Mop Sink Detail

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Casey's

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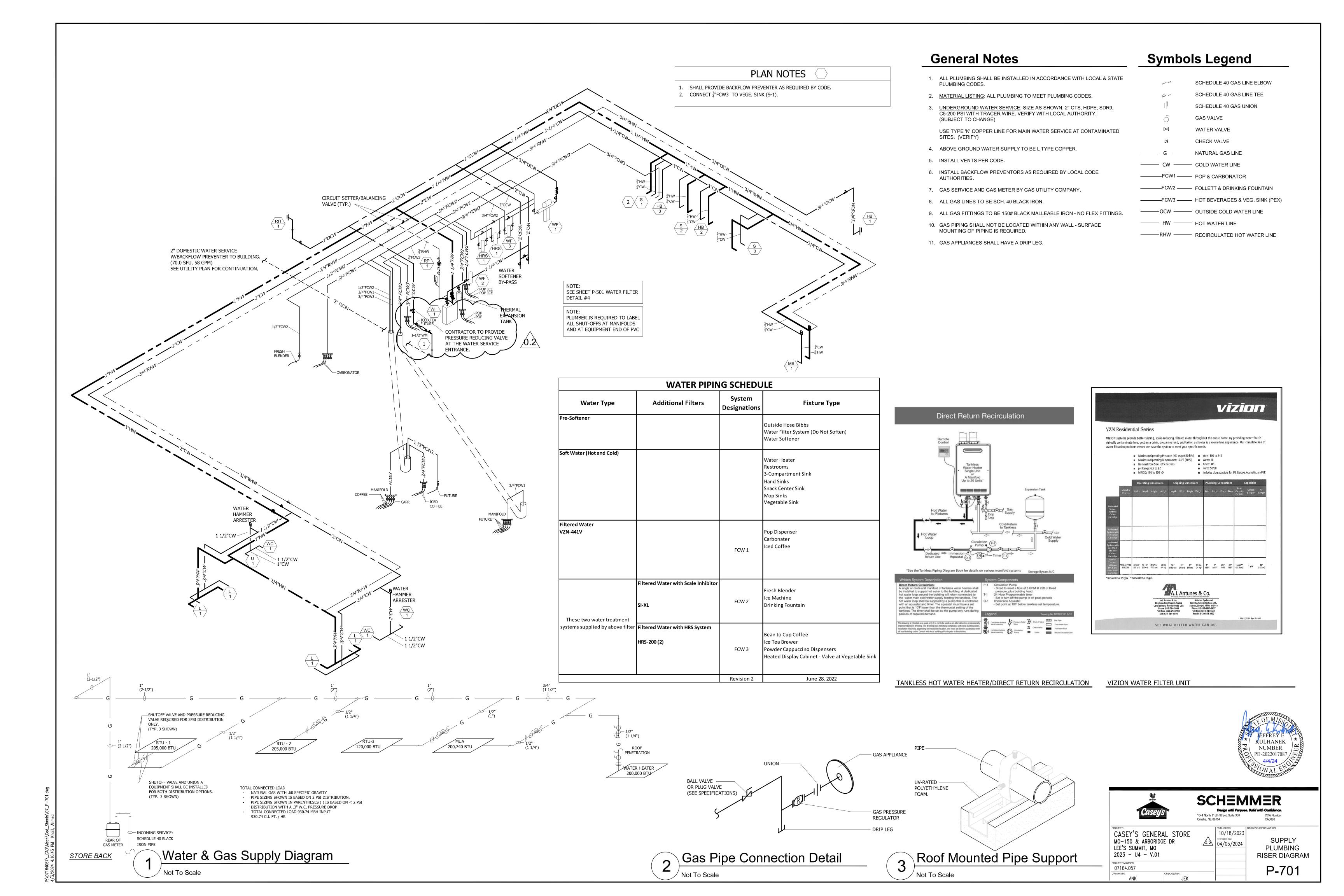
CASEY'S GENERAL STORE
MO-150 & ARBORIDGE DR
LEE'S SUMMIT, MO
2023 - U4 - V.01

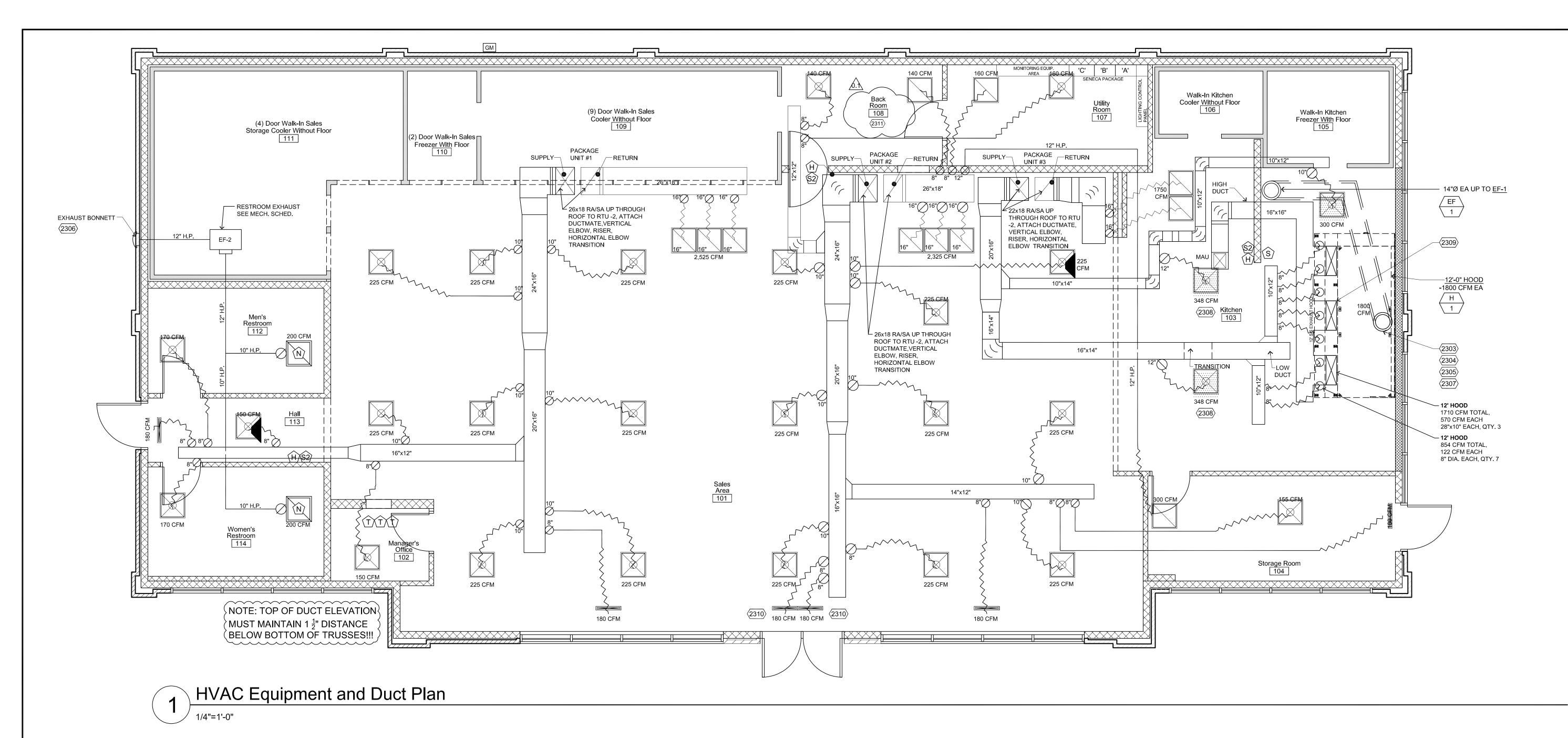
PROJECT NUMBER:
07164.057

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PUBLISHED: 10/18/2023
REVISED ON: SANITARY PLUMBING RISER DIAGRAM

P-601





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 (2307) EXHAUST DUCT PROVIDED BY HOOD MANUFACTURER PER MANUFACTURERS SPECS. (NOT INCLUDED IN THESE (2308) ALL DIFFUSERS WITHIN 10'-0" OF AN EXHAUST HOOD SHALL BE A
- 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 LENS ymbols 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

Keyed Construction Notes

	-
DIVISION 23 - HEATING, VENTILATING AND AIR CONDITIONING	i
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- (2303) HOOD LIGHTING TO BE CONNECTED INTO APPROPRIATE WALL
- $\langle 2304 \rangle$ 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.
- (2306) EXHAUST FAN THRU EXTERIOR WALL SEE M-401 FOR SCHEDULE
- PERFORATED STYLE DIFFUSER. (2309) MAU DUCT TO HOOD MUST ENTER HOOD ABOVE SUPPLY AIR TO
- (2310) 2' SLOTLINEAR 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.

		· · · · · · ·		
	\boxtimes	2'x2' DIFFUSER LOCATION TYP.	Î	HVAC THERMOSTAT - 72" A.F.F.
		2'X2' PERFORATED DIFFUSER TYP.	P	DRYER EXHAUST
3'		2'x2' RETURN AIR DIFFUSER TYP.	N	VENTILATION EXHAUST
J		RESTROOM EXHAUST FAN / 10" HARD PIPE	Ô	HVAC DOAS COMBO STAT - 60" A.F.F.
		SLOTTED DIFFUSER TYP. (LEAVE 2-2' EXTRA CROSS TEE'S FOR SLOTTED DIFFUSERS)	Ĥ	HVAC HUMIDISTAT - 60" A.F.F.
		,	<u>(\$)</u>	SENSOR -60" A.F.F.
D	\boxtimes	2'x2' DIFFUSER WITH DIVERTER INSTALLED		*ALL HEIGHTS LISTED ARE FROM BOTTOM

© RHEEM - 72" A.F.F.

chen Exhaust Hood Notes	Ø	DAMPER (ALL SUPPLY AND RETURN LINES TO HAVE DAMPERS)	61	HOOD
SEY'S HVAC/R SUPERVISOR AND ENGINEERING IN APPROVED RMAT.		2'x2' DIFFUSER WITH DIVERTER INSTALLED		*ALL HEIGHT ARE FROM B OF UNITS U.N
NSTRUCTION DOCUMENTS. FIELD REPORTS SHALL ICATE DEFICIENCIES PREVENTING PROPER TESTING, JUSTING AND BALANCING OF SYSTEM AND EQUIPMENT TO HIEVE SPECIFIED PERFORMANCE. FURNISH REPORTS TO		2-2' EXTRA CROSS TEE'S FOR SLOTTED DIFFUSERS)	(\$)	60" A.F.F. SENSOR -60"
NSTRUCTION DOCUMENTS FIELD REPORTS SHALL	><	SLOTTED DIFFUSER TYP. (LEAVE	(H)	HVAC HUMID
NSTRUCTION DOCUMENTS. FIELD REPORTS SHALL	\sim	SLOTTED DIFFUSER TYP. (LEAVE	$\langle H \rangle$	

Kitchen Exhaust Hood Notes

TURNING VANES MANUFACTURER: CAPTIVEAIRE: TYPE 1, UL APPROVED 12' EXHAUST HOOD. ----- HARD PIPE DUCT

√√√ FLEX DUCT

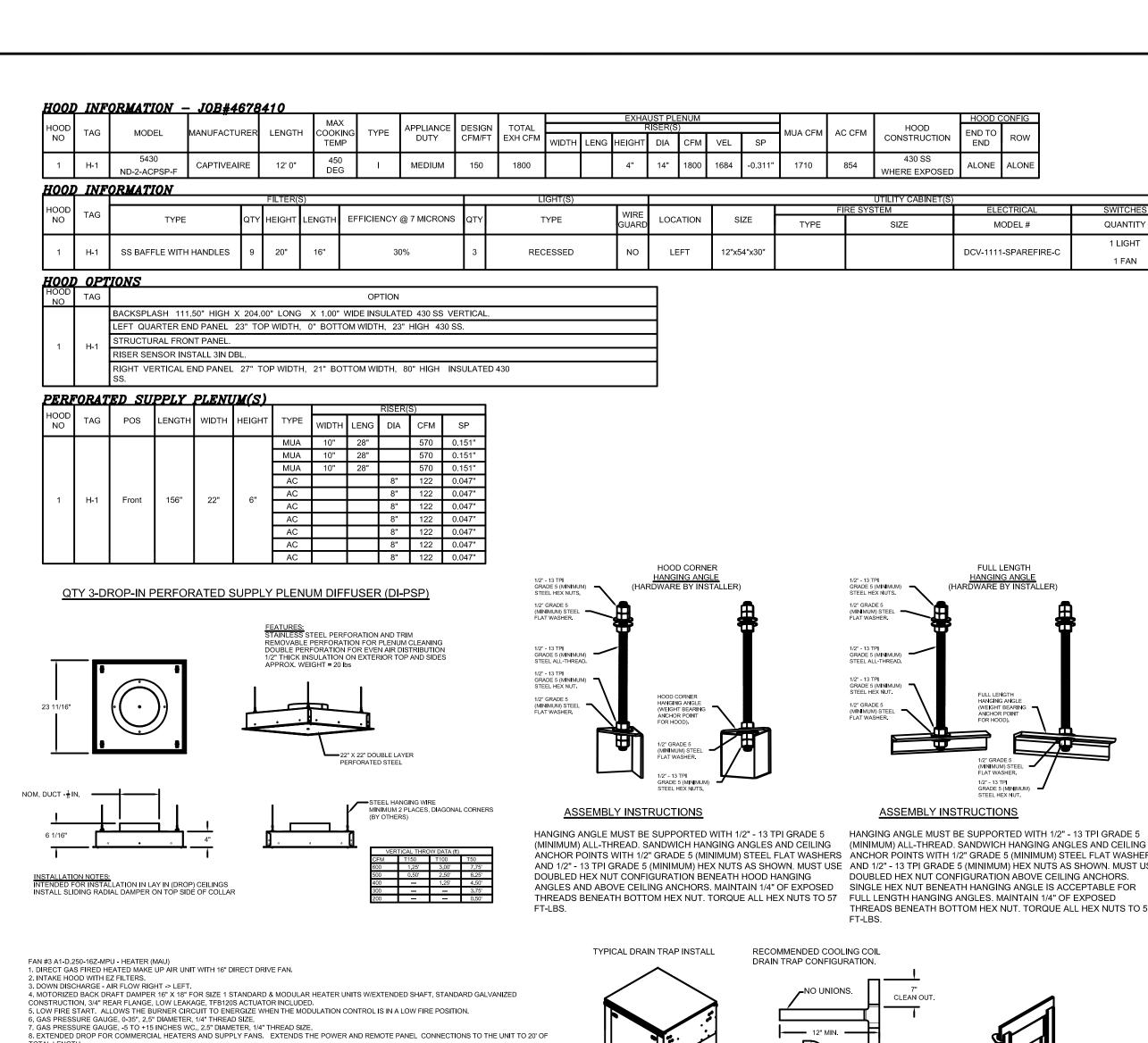
						U4 (2021) GAS -	HVAC P	ACKAG	SE UNI	IT SCHEDULE											
					500		Blower			SEER 1	Cooling Cap	acity		Heating Ca	apacity				Elect	rical		Operating Weight
Unit Name	Manufacturer and Model Number	Equipment Notes	Unit CFM OS	SA CFM	ESP	HP	BHP or Watts	RPM	EER	IEER ²	Nominal Tons	MBH	Heat Source	Input		Output		olts Ph	FLA/RLA	MCA	MOP	LBS
						пг	BHP OF Walls	KPIVI		IEEK	Nominal Tons	IVIDIT	Gas or Electric	MBH k	(W	MBH	KW	JILS PI	Amps	Amps	Amps	(less curbs)
Package Unit #1	Rheem - RGEDZT090ACG20BDALK3	Sales Area	2800		0.7	3.0	1280.100	786	11	14.6²	7.5	98.5	Natural	205		166.1	208	3- 23 0 3	.ø	44	60	1185
Package Unit #2	Rheem - RGEDZT090ACG20BDALK3	Sales Area	3200		0.7	3.0	1280.100	786	11	14.6^{2}	7.5	98.5	Natural	205		166.1	208	3-230	Ø	44	60	1185
Package Unit #3	Rheem - RGECZR060ACU12BDALH3	Kitchen Area	1850		0.8	1.0	1105.700	1063	11.2	14 ¹	5	63.5	Natural	120		97.2	208	3-230	Ø	34	45	583
MAU	CaptiveAire - A1-D.250-15D-MPU	One Unit	1710		0.4	3.0	1.060	1939					Natural	200.74		184.7						1256
	A/C Condensing Unit	One offic								14 ¹	3	36.0					208	3-230	Ø	22.8	30	

		U4 (2021) GAS - AIR BA	LANCE SO	CHEDULE					
		Supply Air	Return Air	Outside Air	Exha	ust Air	Air Bala	ance	
Unit Name	Unit Description	Manufacturer and Model Number	051.4	051.4	051.4	CFM	CFM	CFM	CFM
			CFM	CFM	CFM	Morning *	Typical	Morning *	Typical
B 1 11 11 11			2000	0-0-	4				
Package Unit#1		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		
Totals			9560	7200	2360	2200	2200	160	160

E	XHAUST H	00[OPER	OITA	N SUMN	//ARY								
	Equipment		Cooking Equipment Status											
Equipment Name	Description		Off	Warm-up and Cool-down		Normal Operation								
		CFM	Percent	CFM	Percent	CFM	Percent							
Exhaust Hood 1 Make-up Air Unit	12 Foot Hood MAU	0	0 0	360 0	20 0	1440 to 1800 1370 to 1710	80 to 100 80 to 100							

JEFFREYE KULHANEK NUMBER	
73 - 1 - 1 - 2	7

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Caconte	SCHEM Design with Purpose.	MER 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: 01/24/2024	MECHANICAL PLAN
PROJECT NUMBER: 07164.057		N ₁ -101



9.3 TON, SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 DF/EH MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE, R410A REFRIGERANT, AND REFRIGERANT PIPING. (1,100 TO 1,800 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLI. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL =

14. CASLINK BUILDING MONITORING SYSTEM COMMUNICATIONS MODULE. REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR 3G CELLULAR

17. TOTAL CFM MONITORING FOR MUA UNITS. USES +/- 15 PRESSURE TRANSDUCER, RIVET NUTS, 1/4" AIRFLOW TUBING AND PUSH TO CONNECT FITTINGS.
18. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE

DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.

CURB OUTER WALL

10. DOWNTURN PLENUM FOR SIZE 1 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS.

SERVICE. INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CATS CABLE, AND 1 FT OF SHIELDED TWISTED PAIR.

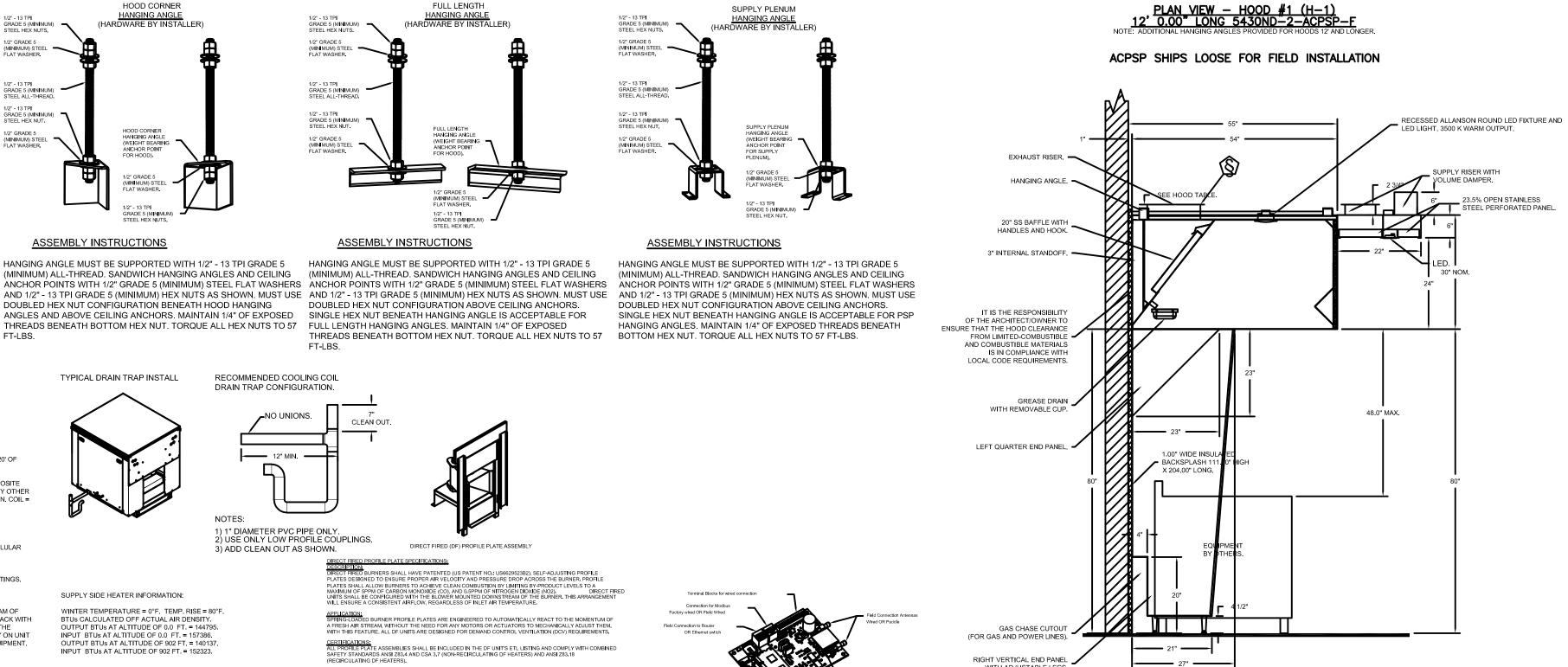
15. GFCI 15 AMP CONVENIENCE OUTLET FOR HEATER ENCLOSURE. POWER SUPPLY BY OTHERS - INCLUDES RECEPTACLE AND J BOX.

16. ECM WIRING PACKAGE FOR ZIEHL SUPPLY MOTORS WITH PWM SIGNAL FROM ECPM03 PREWIRE.

SINGLE POINT MPU CONNECTION, 1 CONDENSER

SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

12. FREEZESTAT WITH 10' SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.
13. CLOGGED FILTER SWITCH WITH NOTIFICATION ON HMI.



U.L. LISTED RECESSED ALLANSON ROUND

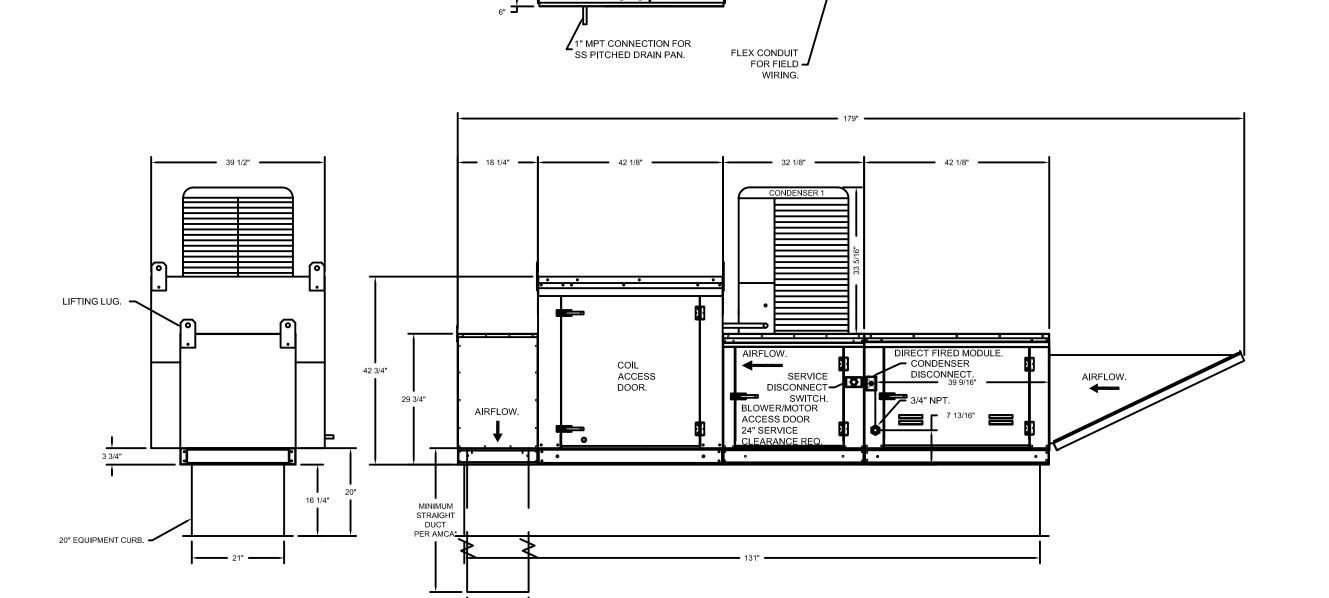
12' 0"NOM./12' 0.00"OD. ---

D FIXTURE AND LED LIGHT.

QUANTITY

1 LIGHT

SUPPLY PLENUM



COOLING MODULE.

1) 1" DIAMETER PVC PIPE ONLY. 2) USE ONLY LOW PROFILE COUPLINGS.

AIRFLOW.

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORTATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

3) ADD CLEAN OUT AS SHOWN.

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 0°F TEMP RISE = 80°F BTUs CALCULATED OFF ACTUAL AIR DENSITY.

OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 144795.

INPUT BTUS AT ALTITUDE OF 0.0 FT. = 157386. OUTPUT BTUS AT ALTITUDE OF 902 FT. = 140137

INPUT BTUs AT ALTITUDE OF 902 FT. = 152323.



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.

SECTION VIEW - MODEL 5430ND-2-ACPSP-F HOOD - #1 (H-1)

1.00" WIDE INSULATED BACKSPLASH 111.50" HIGH X 204.00" LONG.

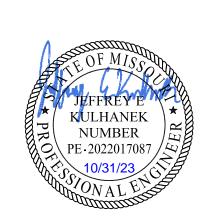
LIGHTING FOR ACPSP JOB # 4678410 - HOOD #1 INPUT: 120V AC, 1 PHASE, 50/60HZ, 3.5 WATTS PER LIGHT. TO CONTROL LIGHTS WITH HOOD LIGHT SWITCH, WIRE PER HOOD ELECTRICAL CONTROL PANEL SCHEMATIC.
TO CONTROL LIGHTS WITH BUILDING LIGHT SWITCH, WIRE

END TO END ACPSPS REQUIRE 120VAC FIELD WIRING FROM J-BOX TO J-BOX. REPLACE LIGHTS WITH LED LIGHTS ONLY.

BLACK AND WHITE WIRE TO A 120VAC SERVICE.

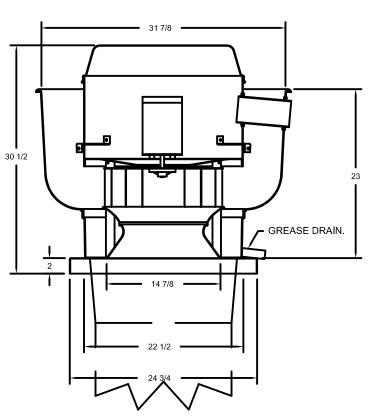
ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, 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.



Pacan	a-	SC		IMER Build with Confidence.
Guneg	9	1044 North 11 Omaha, NE 68	5th Street, Suite 300 3154	COA Number CA0666
CASEY'S GENER MO-150 & ARBORID LEE'S SUMMIT, MO 2023 - U4 - V.01			PUBLISHED: 10/18/2023 REVISED ON:	EXHAUST HOOD DETAILS
PROJECT NUMBER: 07164.057 DRAWN BY:	CHECKED BY:			M-401
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FAN #1 DU85HFA - EXHAUST FAN (EF-1)



- 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. - NEMA 3R SAFETY DISCONNECT SWITCH.

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 WOULD CAUSE UNSAFE OPERATION.

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.

STEEL CONSTRUCTION. ROOF OPENING DIMENSIONS. PITCHED CURBS ARE AVAILABLE

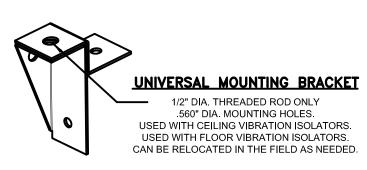
FOR PITCHED ROOFS.

EXAMPLE: 7/12 PITCH = 30° SLOPE.

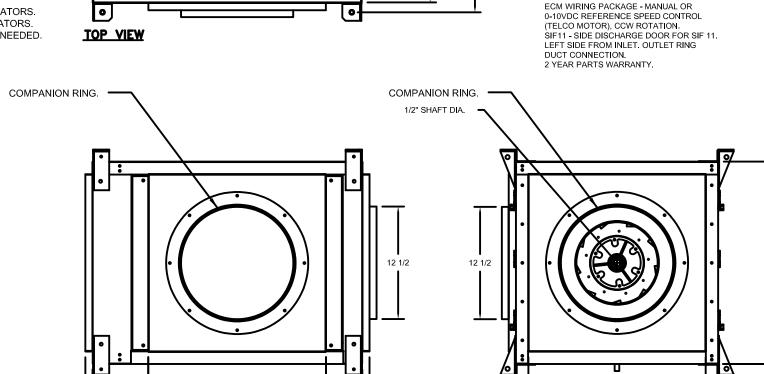
SPECIFY PITCH:

- 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.



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



FLOW

- 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
																_

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

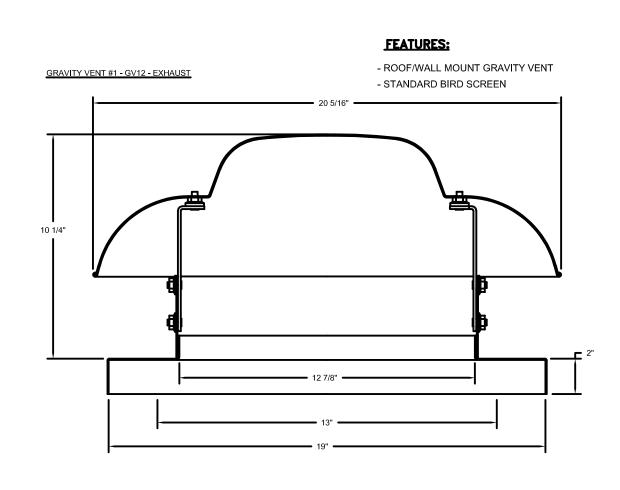
MUA FAN INFORMATION - JOB#4678410

MUA	FAIV .	IIVF U	RMAIIUN — JUD#40/04/(
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL#	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	ВНР	PHASE	VOLT	FLA	MCA	МОСР	WEIGHT (LBS)	SONES
3	MAU	1	A1-D.250-16Z-MPU	16Z-1-MOD	A1-D.250	1100	1710	0.400	1959	ODP-ECM	2.500	0.8940	3	208	5.7	21.8A	30A	1052	19.5

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

GAS FIRED MAKE-UP AIR UNIT(S) INPUT OUTPUT MBTUs MBTUs BURNER TEMP RISE REQUIRED INPUT GAS PRESSURE GAS TYPE EFFICIENCY(% 3 MAU 110-200 100-185 55-100°F 7 IN. W.C. - 14 IN. W.C. NATURAL

3	MAU	110-20	00 100-185	55-100°F	7 IN. W.C 14 IN. W.C.	NATURAL 92							
AN	<u>OPTIO</u>	NS	_										
FAN UNIT NO	TAG	QTY			DESCRIPTIO	N							
		1	GREASE BOX.										
		1	UPBLAST FAN	WHEEL ACCESS	S PORT.								
1	EF-1	1	FAN BASE CEI	RAMIC SEAL - IN	STALLED AT PLANT - FOR GREASE	DUCTS.							
•		1			R CURB SUPPLIED BY OTHERS.								
	1	1	ECM WIRING F	PACKAGE - EXH	- EXHAUST - MODBUS CONTROL -MSC- (TELCO), CCW ROTATION.								
		1	2 YEAR PARTS										
		1	SIF - HORIZON	ITAL OVERHEAD	MOUNT - PRE-INSTALLED MOUNT:	S (11-36).							
		HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS. (HSA125).											
		1	SIF11 - INLET	RING DUCT CON	INECTION.								
2	EF-2	EF-2 1 ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.											
		1	SIF11 - SIDE D CONNECTION		R FOR SIF 11. LEFT SIDE FROM INL	LET. OUTLET RING DUCT							
	İ	1	2 YEAR PARTS	S WARRANTY.									
		1	MOTORIZED B	ACKDRAFT DAM	IPER FOR A1-D HOUSING. MEETS A	AMCA CLASS 1A RATING.							
		1	LOW FIRE STA	LOW FIRE START.									
		1	INLET PRESSU	JRE GAUGE, 0-3	5".								
		1	MANIFOLD PR	ESSURE GAUGE	E, -5 TO 15" WC.								
		1	EXTENDED PO	WER DROP.									
		1	3 TON SINGLE CIRCUIT MODULAR PACKAGED COOLING OPTION FOR SIZE 1 DF/EH MUA (1,100 TO 1,800 CFM), 208V/230V, 3 PHASE. COOLING THERMOSTAT OR PROGRAMMABLE STAT REQUIRED FOR PROPER OPERATION.										
		1	DOWNTURN P	LENUM FOR SIZ	E 1 DX COIL MODULE.								
3	MAU	1	SINGLE POINT	MPU CONNECT	ION, 1 CONDENSER.								
		1	FREEZESTAT	(10).									
		1	CLOGGED FIL	TER SWITCH WI	TH NOTIFICATION ON HMI.								
		1	CASLINK BUIL	DING MONITORI	NG SYSTEM - INTERNET OR CELLU	ILAR CONNECTION REQUIRED.							
		1	CONVENIENCI RECEPTACLE	`), 15 AMP - REQUIRES SEPARATE 1	20V CONNECTION. INCLUDES							
		1	ECM WIRING F MOTOR).	ECM WIRING PACKAGE-SUPPLY - PWM SIGNAL FROM ECPMO3 PREWIRE (3 - PHASE ZIEHL									
		1	TOTAL CFM M	ONITORING FOR	R MUA UNITS.								
	İ	1	2 YEAR PARTS	S WARRANTY.									



Nominal Values Only

FAN ACCESSORIES SUPPLY **EXHAUST** GRAVITY MOTORIZED WALI DAMPER MOUNT DISCHARGE DAMPER

<u>CUF</u>	CURB ASSEMBLIES										
NO	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 0.500:12.000 PITCH ALONG WIDTH, RIGHT INSULATED 16 GAUGE.						



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		SCHEM	
Case	ey's T	Design with Purpos 1044 North 115th Street, Suite 300 Omaha, NE 68154	ce. Build with Confidence. COA Number CA0666
CASEY'S GENE MO-150 & ARBOR LEE'S SUMMIT, MO 2023 - U4 - V.0	RIDGE DR	PUBLISHED: 10/18/2023 REVISED ON:	EXHAUST HOOD DETAILS
PROJECT NUMBER: 07164.057			M-402
DRAWN BY:	CHECKED BY:		

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DIICTWORK 41 PARTS - JOR44678410 DOUBLE WALL H-1

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 SHEL
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	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.
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 SHEL
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 SHEL
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 NEED 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 REDUCED 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			

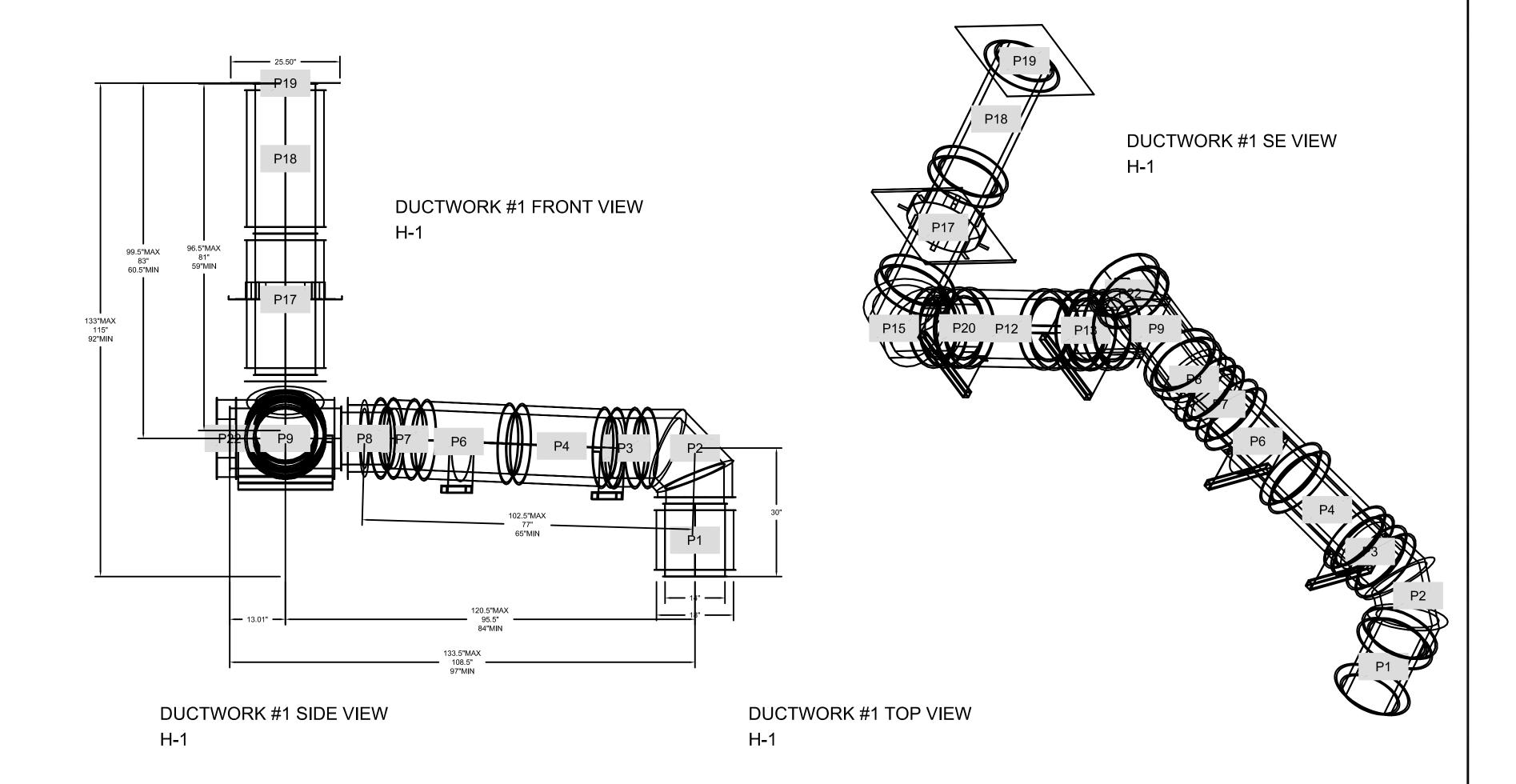
DOUBLE WALL FACTORY BUILT DUCTWORK

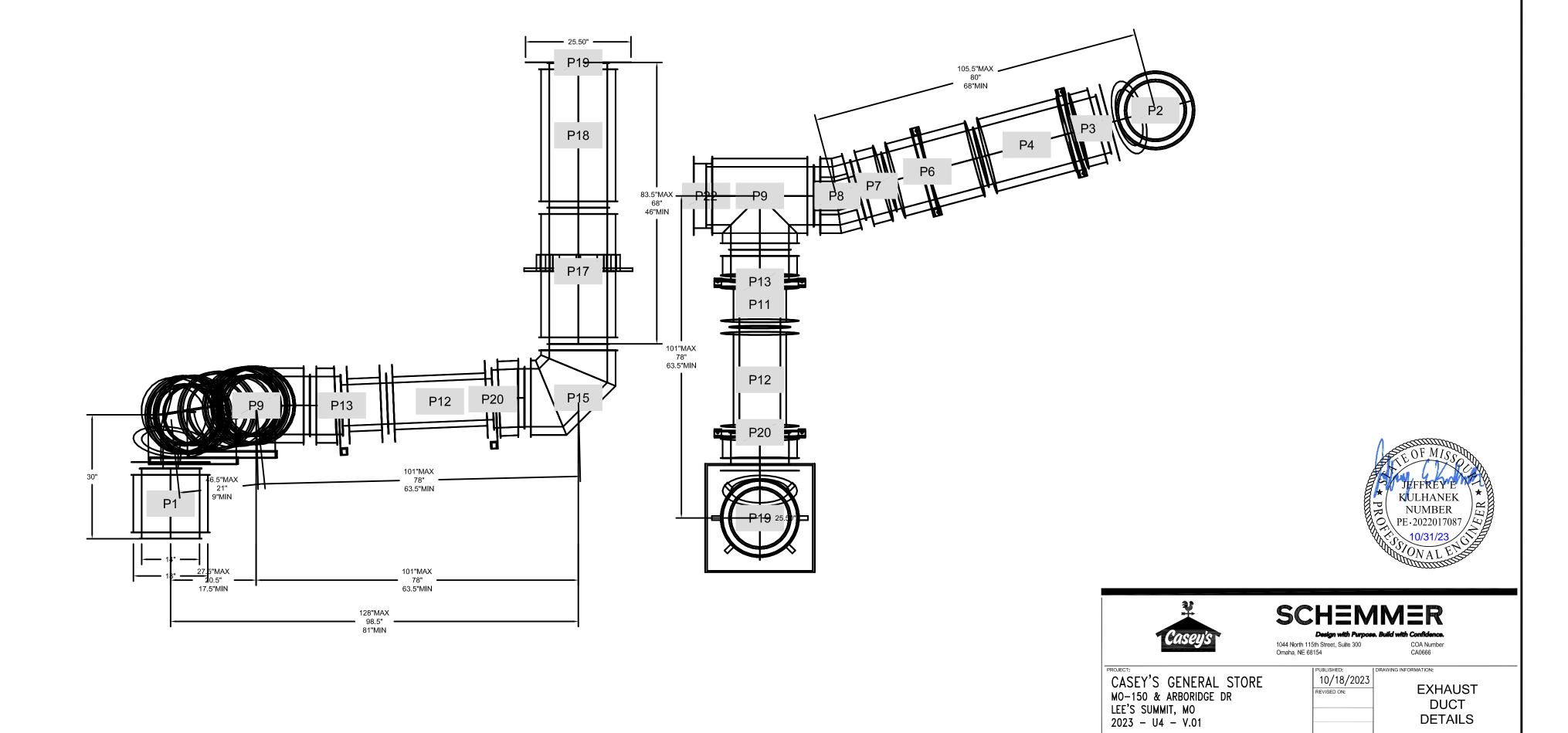
- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.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

HORIZONTAL							
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.





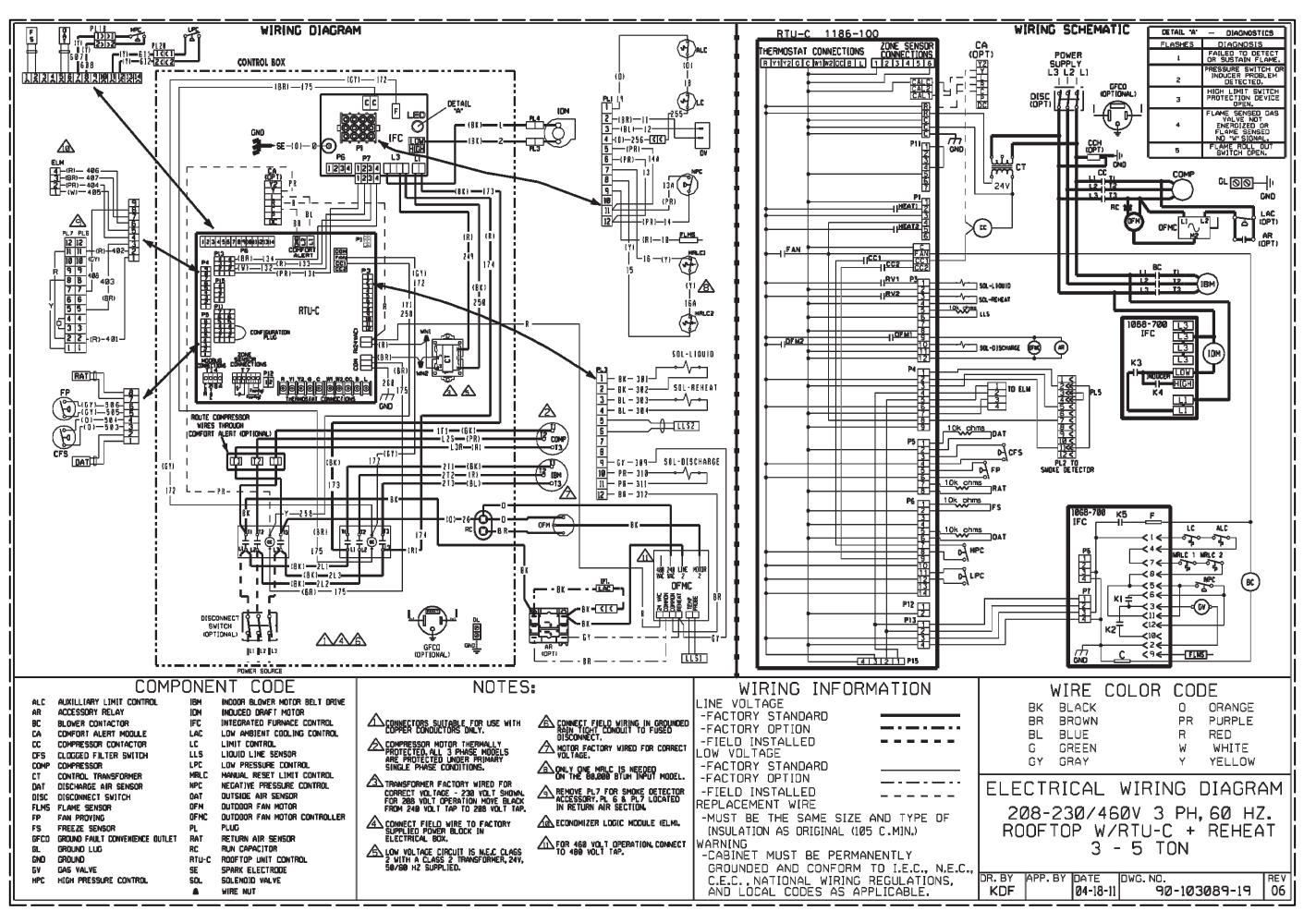
DUCT DETAILS

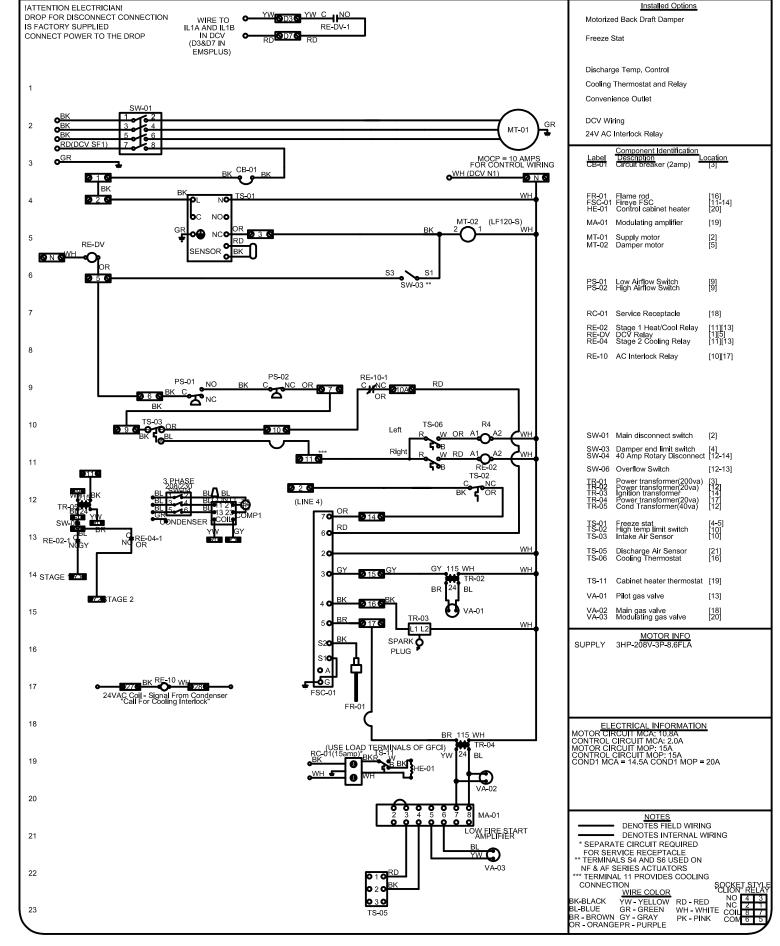
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PROJECT NUMBER: 07164.057

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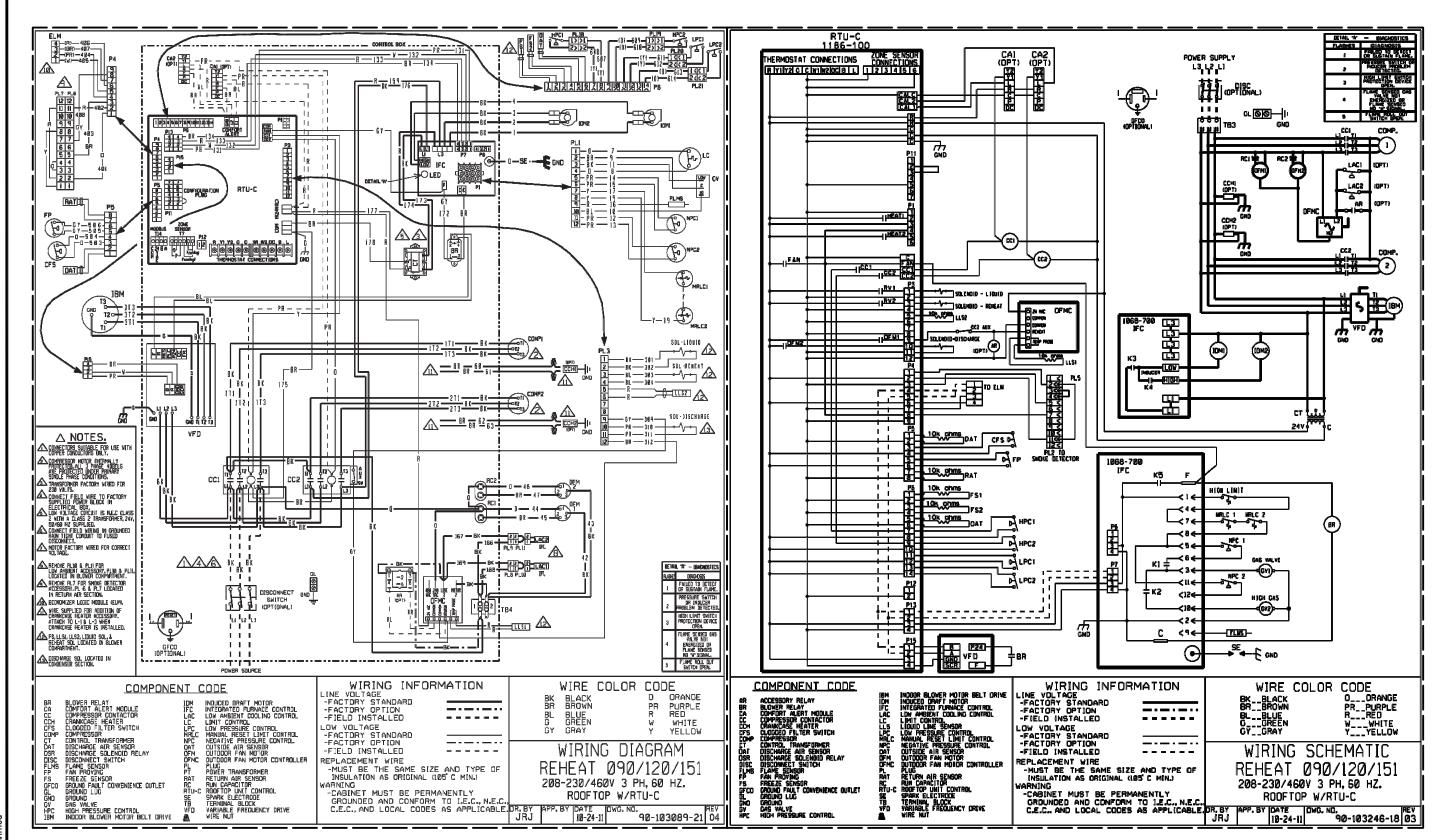


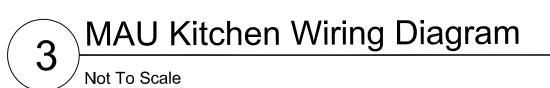


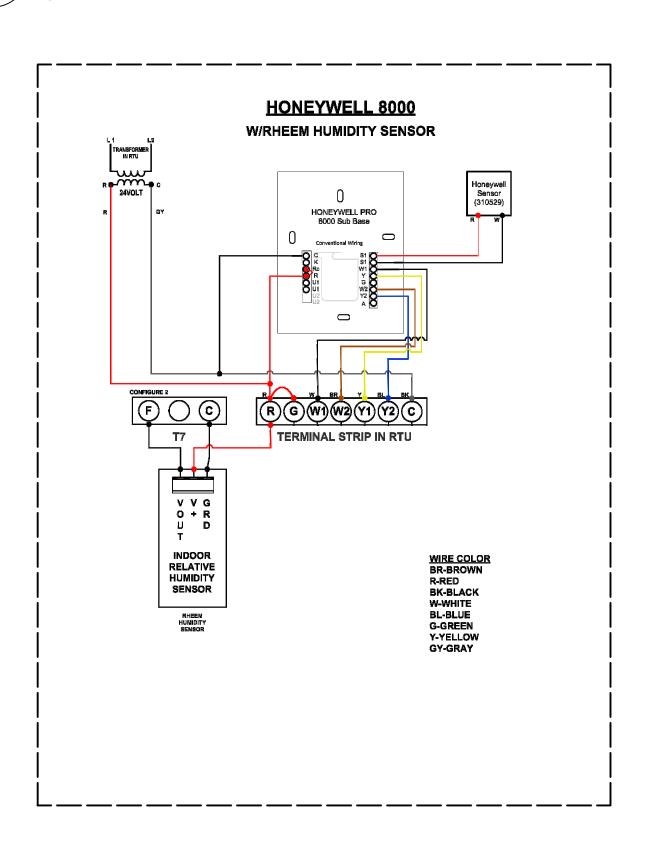


RTU Wiring Diaram 7 1/2 Ton

Not To Scale



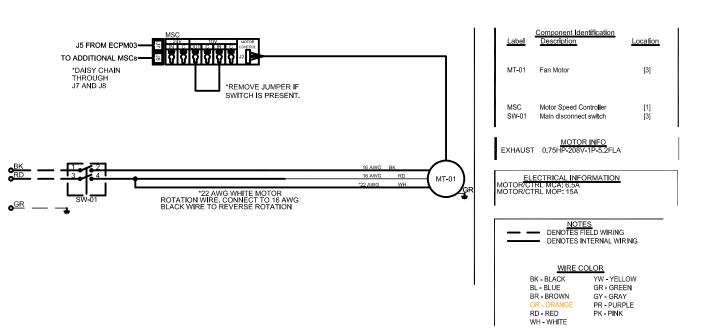




4 RTU-1 Sales Area Humidistat Wiring Diagram Not To Scale

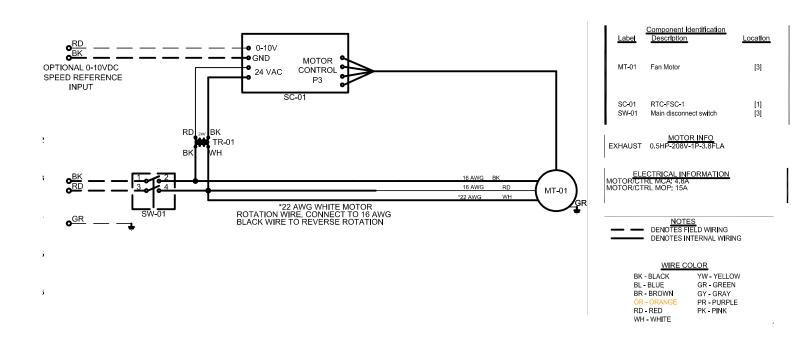
EXHAUST FAN SCHEDULES

EXH	AUS ⁻	T 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

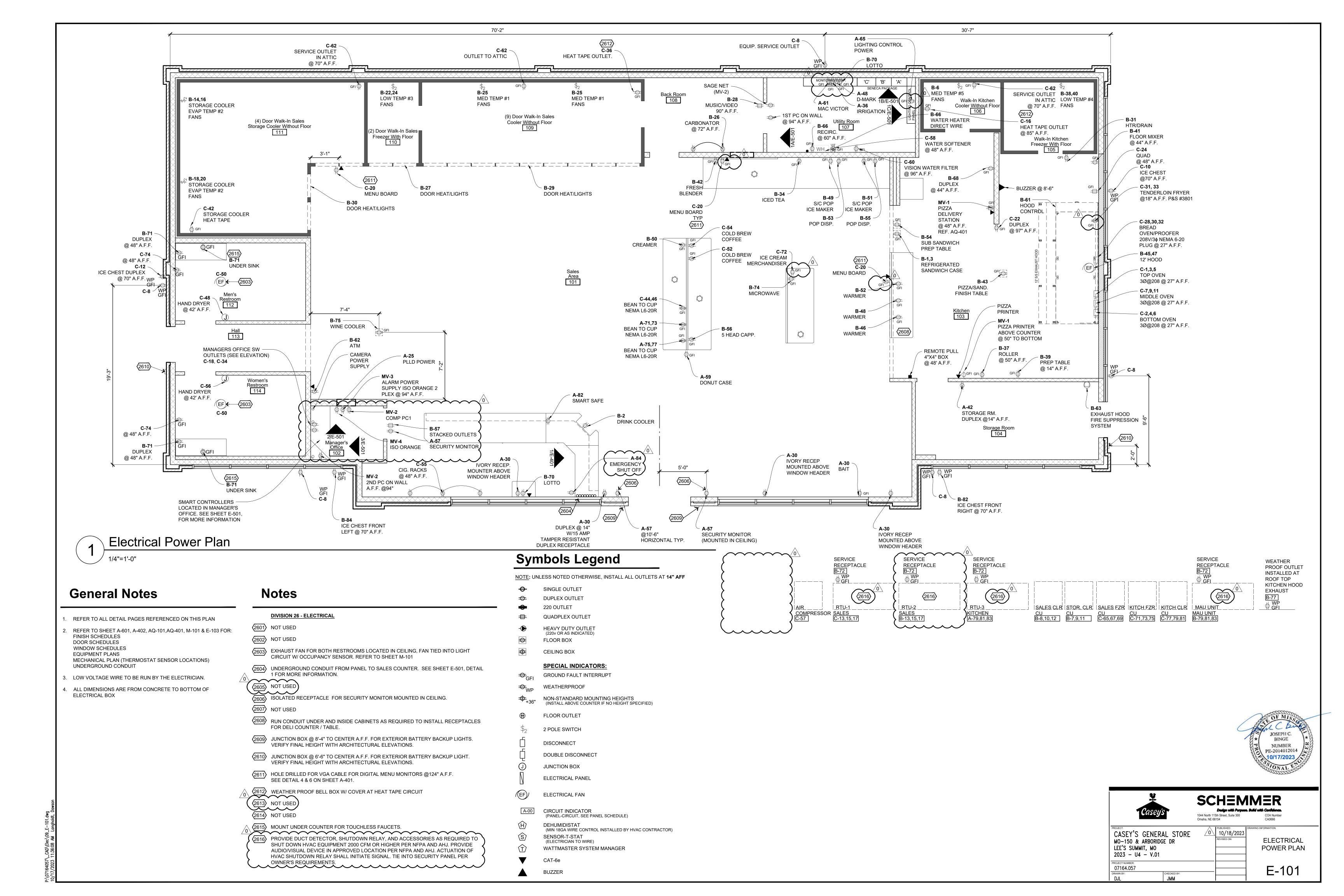
Not To Scale

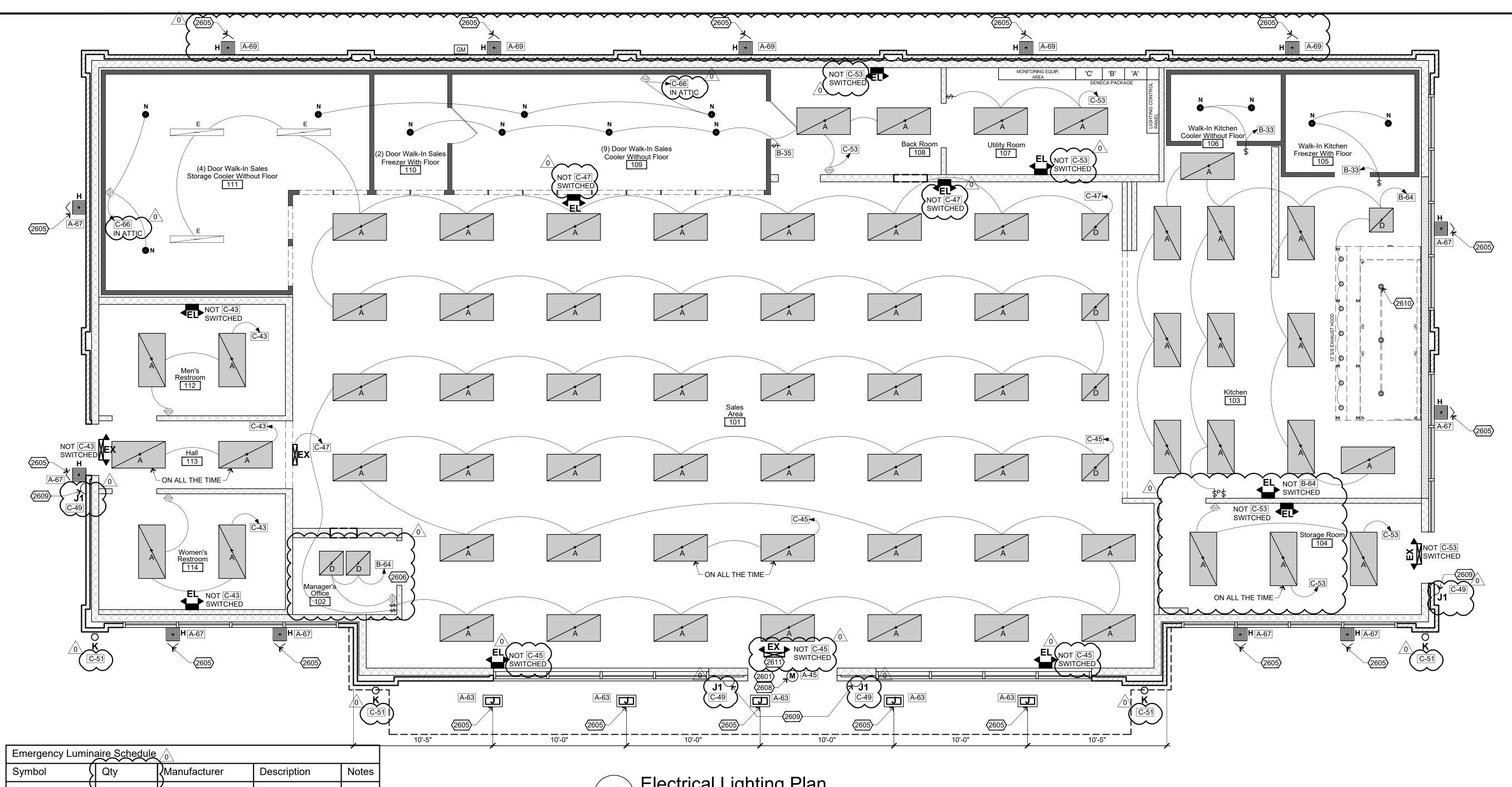


Restroom Exhaust Fan Wiring



**		SC		1MER
Caseys		1044 North 1 Omaha, NE	15th Street, Suite 300	COA Number CA0666
CASEY'S GENERA MO-150 & ARBORIDGE LEE'S SUMMIT, MO 2023 - U4 - V.01			PUBLISHED: 10/18/2023 REVISED ON:	COMFORT COOLING WIRING
PROJECT NUMBER: 07164.057				M-601
DRAWN BY: ANK	CHECKED BY: JEK			100-100 1





Emergency Luminaire Schedule 0									
Symbol	Qty	Manufacturer	Description	Notes					
EX >	1	Lightalarms	QLX	2					
EX	3	Cree	LCAC-2SQLED	2					
▲ EL ▶	10	Lightalarms	LCAB-2SQLED	3					
● N	13	PUCK BASE FIXT ABOVE CEILING	1						

EMERGENCY LIGHT

- 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.

1	Electrical Lighting Plan
	1/4"=1'-0"

Lighting Code Requirements

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.

PER SECTION 1008.2 AND 1008.3, 2018 IBC: THE MEANS OF EMERGENCY EGRESS LIGHTING SHALL NOT BE 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.

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.



	10
	PROJECT: CASEY'S G
	MO-150 & AF LEE'S SUMMIT,
	2023 - U4 -
i l	

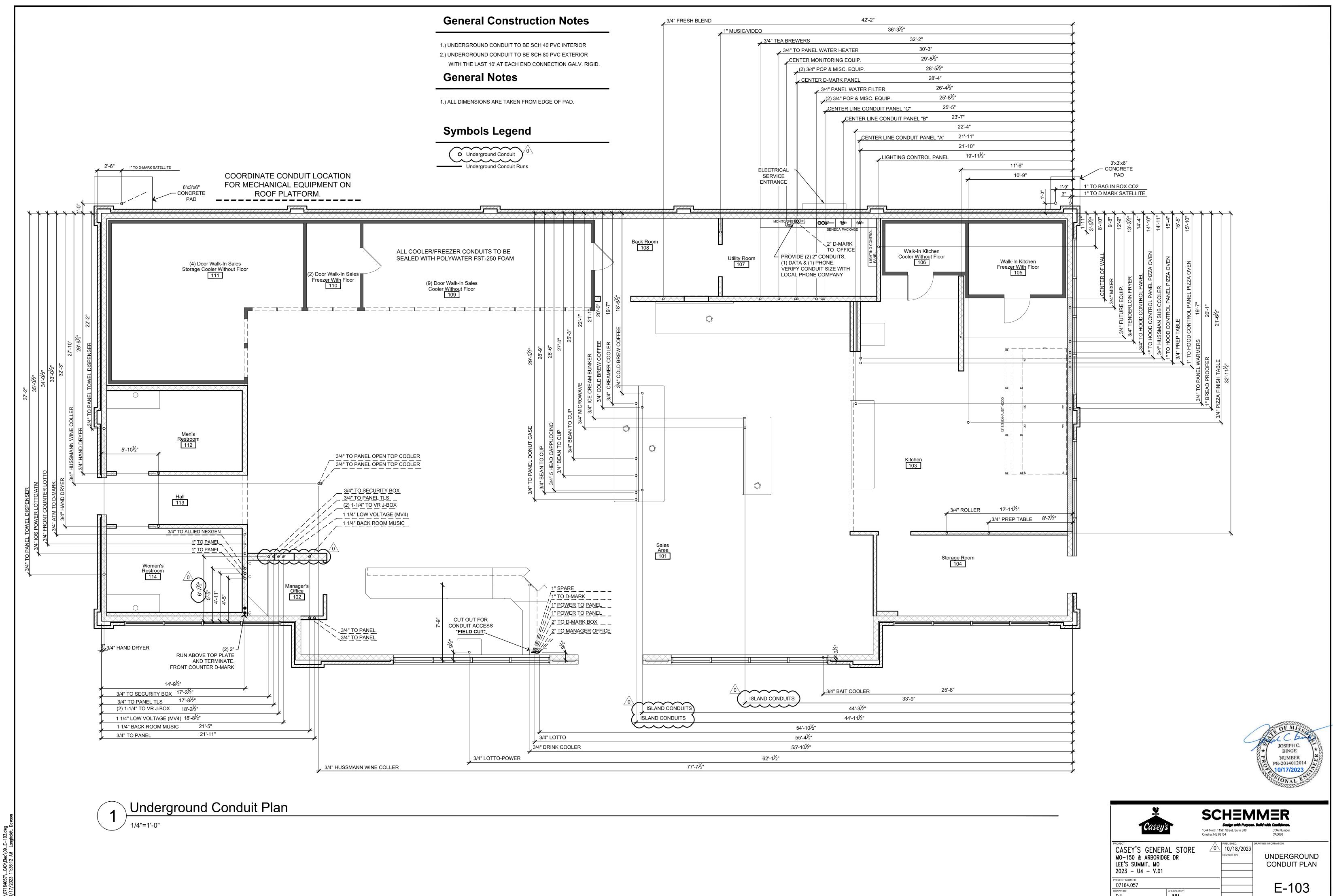
07164.057

1044 North 115th Street, Suite 300

GENERAL STORE <u>/0</u> 10/18/2023 ELECTRICAL ARBORIDGE DR LIGHTING PLAN IT, MO - V.01

E-102

uminaire Sch	edule	0					
ymbol	Label	Qty 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)
→	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
0	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)



UNDERGROUND ROUGH IN MEASUREMENTS ARE FROM INSIDE SHEETING/BRICK LEDGE (PAD SIZE) UNLESS NOTED.

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.
THE CIRCUIT MUST GO DIRECTLY TO THE AC DISTRIBUTION PANEL (FUSE BOX) AND HAVE ITS OWN SEPARATE CIRCUIT BREAKER OR FUSE.
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 OUTLETS FOR CONNECTING THE EQUIPMENT.

MANAGER'S OFFICE AREA: (TANK MONITORING EQUIPMENT)

(SEE SHEET 5/E-501)

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 <u>TO FRONT COUNTER</u> 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

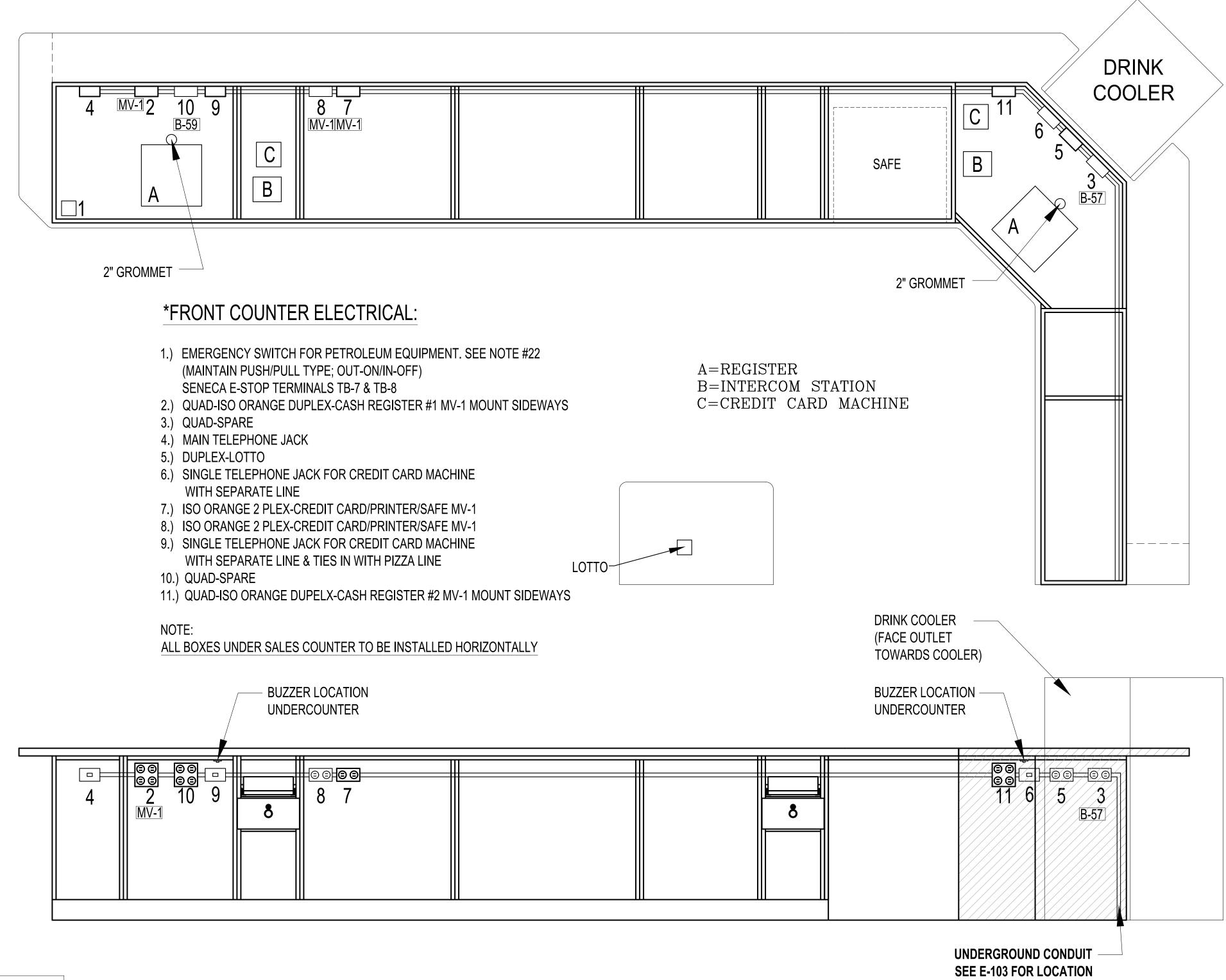
DISCONNECTS THE DATA DISTRIBUTION BOX & ALLIED NEX GEN BOX (BOTH HOT & NEUTRAL CONDUCTORS) THROUGH THE ISO ORANGE OUTLETS ON MAC VICTOR BOX.

"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)

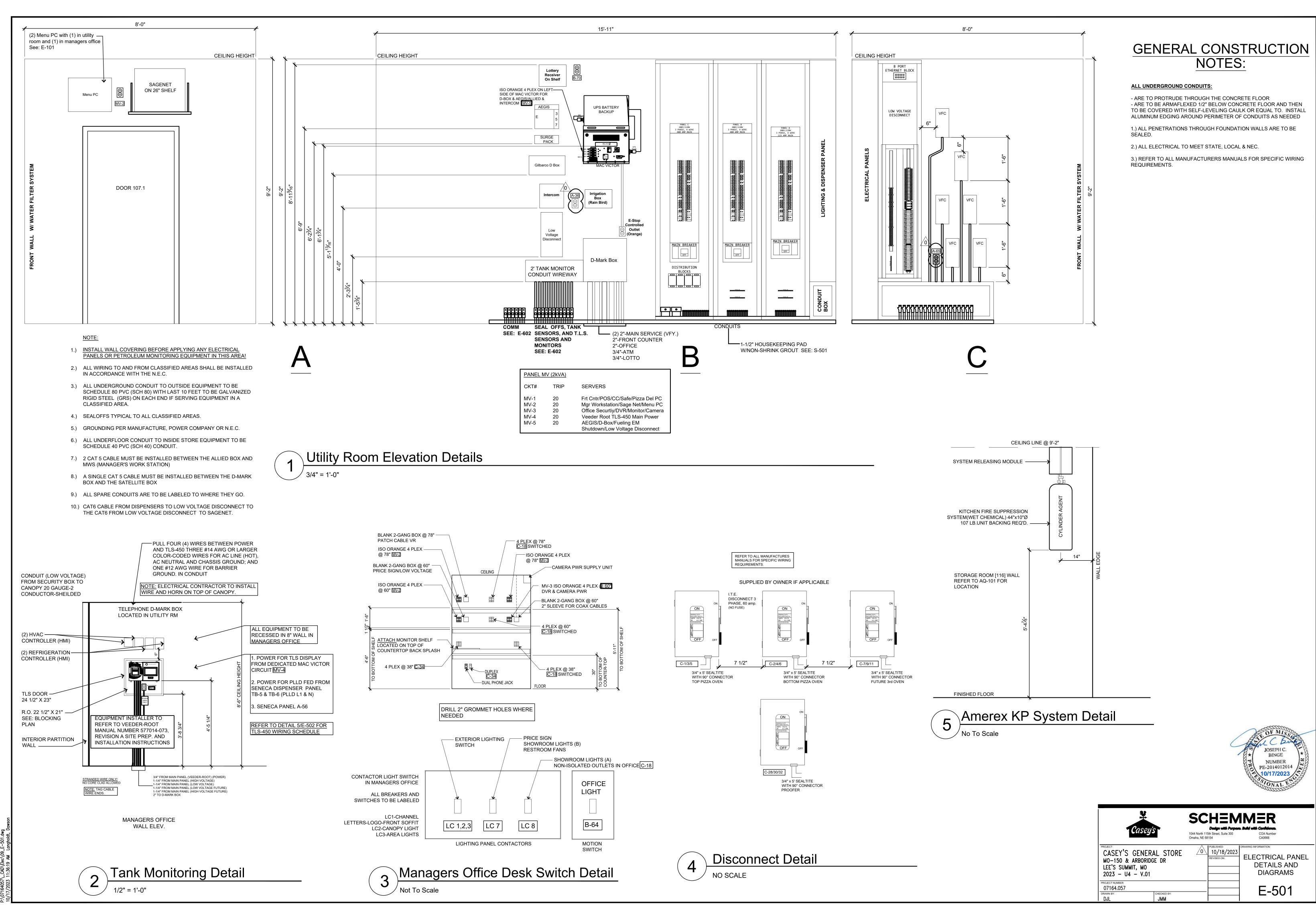


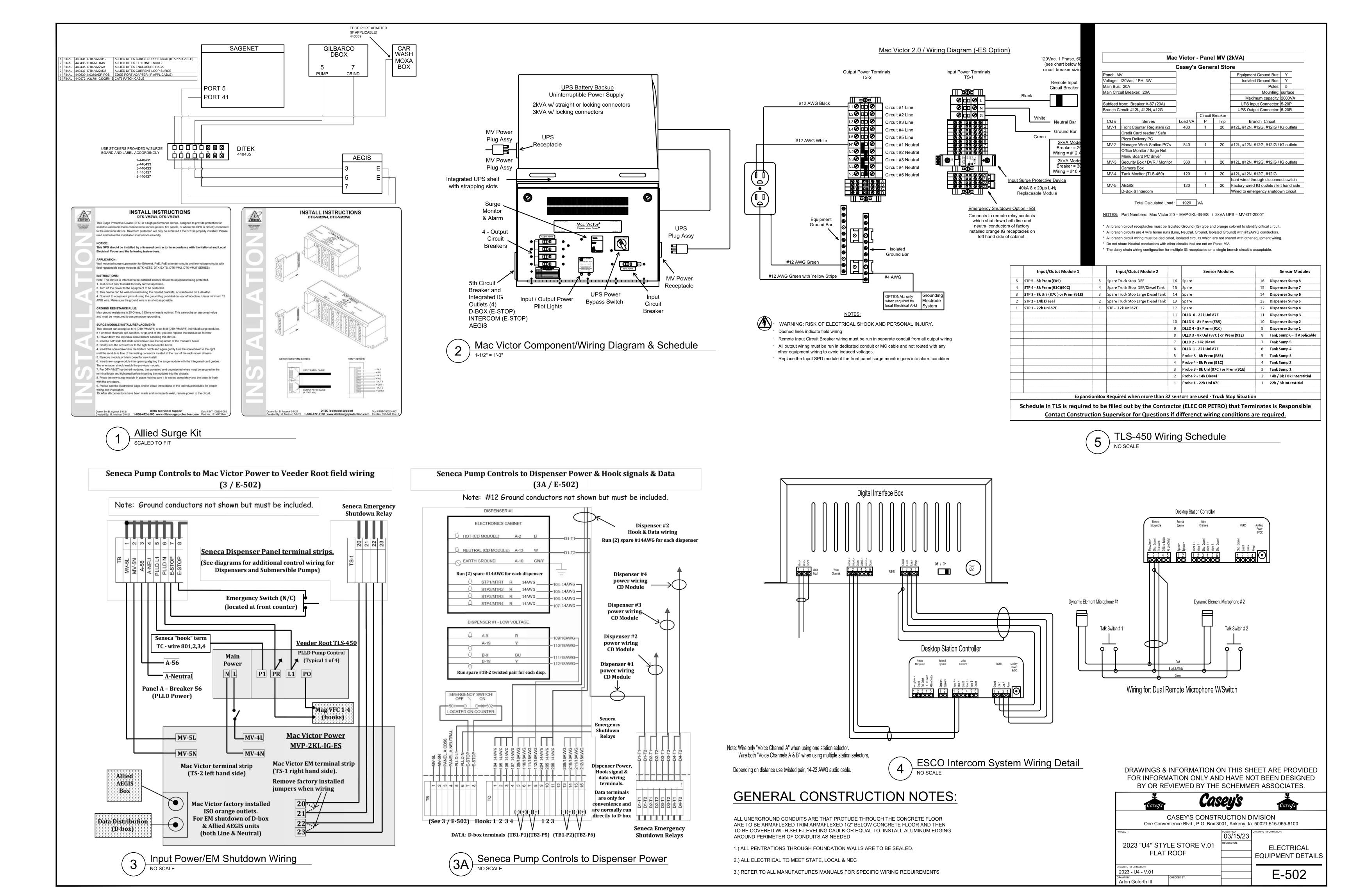
Front Counter Electrical Detail

Scale: 1"=1'



Casa	10	SCHEMMER Design with Purpose. Build with Confidence.					
Cuses		1044 North 119 Omaha, NE 68	5th Street, Suite 300 1154	COA Number CA0666			
CASEY'S GENE MO-150 & ARBORII LEE'S SUMMIT, MO 2023 - U4 - V.01	OGE DR	Ó	PUBLISHED: 10/18/2023 REVISED ON:	SALES COUNTER ENLARGED PLAN & DETAILS			
PROJECT NUMBER: 07164.057 DRAWN BY: D.JL	CHECKED BY:			E-401			





							EL	EC.	TRI	CAL	: P	ANE	LA	1							
TAGE: 208	Y120						22	5 AMF	Р МА	IN CIR	CUI	TBREA	KEF	R							FEED: SEE SCHEDUL
IASE: 3Ø	WIRE: 4		s 5:									000 A.I.							20	S	MOUNTING: SURFAC
	DESCRIPTION	WIRE SIZE	NOTES		VA B	С	BRK AMP	R C	28.00	BUS CON		CKT NO.	BR P		Α	VA B	С	NOTES	LTG	WIRE SIZE	DESCRIPTION
	SUBMERSIBLE PUMP #1	#12		804	804	804	20		1 3 5	•	•	4 6	3	20	804	804	804			#12	SUBMERSIBLE PUMP #5
	SUBMERSIBLE PUMP #2	#12		804	804	804	20		7 9	•		8 10 12	3	20	804	804	804			#12	SUBMERSIBLE PUMP #6
	SUBMERSIBLE PUMP #3	#12		804	804		20	3 1	5	•		14 16	2	20	416	416				#12	CANOPY LIGHTS
	CURMEROID E DUMP #4	#40		804		804	-00	1	9	•	İ	18	2	20	416	110	416			#12	CANOPY LIGHTS
	SUBMERSIBLE PUMP #4				804	804		2	21		•	22		20		416	416	ź		***********	CANOPY LIGHTS
	PLLD POWER			180			20		25		\prod	26	1	15	840					The second second	DISPENSER 6 (IF USED)
	PYLON & CANOPY RECEP	#12			360		20		27	•		28	1								BLANK-DISP 6 SW NEUTRAL
	BLANK-DISP 1 SW NEUTRAL								29	Ш	1 +	30		20			1620		_	1 11 11 11 11 11	GENERAL POWER REC FRNT WALL
	DISPENSER 1	#14		840			15	_	31		Ш	32	1	15	840				\perp	#14	DISPENSER 7 (IF USED)
	PYLON SIGN	#12			1080		20		33	•	Ш	34	1								BLANK-DISP 7 SW NEUTRAL
	BLANK-DISP 2 SW NEUTRAL	:							35		•	36		20			360				IRRIGATION
	DISPENSER 2	#14		840	"		15	1 3	37			38	1	15	840					#14	DISPENSER 8 (IF USED)
	DIGITAL PRICE SIGN	#12			240		20	1 3	39	•	П	40	1								BLANK-DISP 8 SW NEUTRAL
	BLANK-DISP 3 SW NEUTRAL							1 4	11		•	42	1	20			360				CUSTODIAN ROOM OULET
	DISPENSER 3	#14		840			15	1 4	3	• I		44	1	15	840					#14	DISPENSER 9 (IF USED)
	CHANNEL LETTERS / LOGO	#12			1020		20	1 4	15	•	\Box	46	1								BLANK-DISP 9 SW NEUTRAL
	BLANK-DISP 4 SW NEUTRAL							1 4	7	HH	1	48	1	20			360			#12	D-MARK TELEPHONE BOX
	DISPENSER 4	#14		840			15		19	 	$^{+}$	50	0.0	15	840				+		DISPENSER 10 (IF USED)
	SPACE	10-07-00-0		A. Tarataka			7,5.0%	111	51	1	+	52	1	1150553	ATIONS:				+		BLANK-DISP 10 SW NEUTRAL
	BLANK-DISP 5 SW NEUTRAL								3	+++	1	54		10/10/1			312		+		
	DISPENSER 5	#14	-	840			15		55		H	56	2	20	312					#12	AREA LIGHTS
	FRONT WALL MONITORS	#12			360		20	1 5	7	1	H	58			OIL	312			+	2000	
	SHOW ROOM/DONUT CASE REC			-	000	1620	20		9	HF	++	60	2	20		012	312			#12	AREA LIGHTS
	MAC VICTOR UPS	100 CONTRACTOR	 	1920		1020	30		31		H	62	+	\rightarrow	312		012		+		
	SOFFITT LIGHTS	Articles Francis		1920	630		20	_	33		++-	64	2	20	312	312				#12	AREA LIGHTS
	LIGHTING CONTROL POWER				030	180	15		35	HĪ	Н		+	\rightarrow		312	312		+		
	SECURITY LIGHTS #1		-	606		100				Н	H	66	2	20	212		312				AREA LIGHTS
	SECURITY LIGHTS #1			696	coc		20		7		₩	- Y	\Rightarrow	\rightarrow	312		\sim		4	\sim	SPACE
	SECORITI LIGHTS #2	#12		-	696	4700	20		9	HĪ	+	70	+	\rightarrow					+		
	BEAN TO CUP COFFEE	#12		4700		1760	20	/	11		۱ţ	72	_	-					+		SPACE
	With Middle College and Middle College and			1760	4700				3		++	74	\rightarrow	\rightarrow	$\overline{}$		\smile	~~	4	\sim	SPACE SPACE
	BEAN TO CUP COFFEE	#12			1760	4700	20		75	1	Н	76	_	\rightarrow					+		
				4070		1760			7	Ш	1	78	\rightarrow	\rightarrow					\perp		SPACE
				4078	4070				9		+	80	_			200			1		SPACE
	RTU-3 KITCHEN	#6			4078	4070	45		31	1	Н	82	_	15		360	400		+	T ALC: HOOSE	SMART SAFE
-						4078		8	33		•	84	1	15			180		\perp	#14	E STOP
												_		-							
				16050	13440	12614			_\	VA TO	TAL			L	7576	3424	6256				
ATTS: BUS									71169					_							
BUS																					
BUS	C: 18870																				
OTAL VA:				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 #: NC62SHR
REF. DRAWING: PBA 707HR	
BRANCHES:	

OLTAGE: 208Y120					—							IT BRE	-1000000	-/22.00							FEED: SEE SCHEI
ASE: 3Ø WIRE: 4	T		_							and the second		000 A		*			L		_		MOUNTING: SURF
DESCRIPTION	WIRE	NOTES	<u>1</u> 9		VA	-		RC			JSS		_	RKR		VA		NOTES	16	WIRE	DESCRIPTION
	SIZE		1-	А	В	С	AMP	P N	0.	1 1	NN	_	-	AMP	A 200	В	С		1		DDINK COOLED
REFRIGERATED SANDWICH CASE	#12			1650	1650		20	2 —	2	•	$\vdash \vdash \vdash$	2	1	20	360				\leftarrow	#12	DRINK COOLER SPACE
SPACE			+-		1650			-	3 5	++	•	6	*	20			216		\leftarrow	\#12	KITCHEN COOLER EVAP. FANS
SFACE	-		+	2064	\vdash				7	+	┤┤┇	8	+	20	2088		210		\vdash	#12	KITCHEN COOLER EVAP. FAINS
STORAGE COOLER CO	#10			2004	2064		30	3	9		┰	10	13	30	2000	2088				#10	SALES COOLER CU
0.0.0.02 000220.	1				2001	2064	"	ı —	1	++	H	12	_	"		2000	2088				07.1220 00 02211 00
	1		1	5280		2001		_	3	• 1	Н	14			1581		2000		\vdash		
SALES RTU #	2 #4				5280		60		5		•	16	12	20		1581				#12	STORAGE COOLER EVAPORATOR
						5280			7	\top	1	18	2	20		1	1581		\top	#10	STORAGE COOLER EVAPORATOR
SPACE								1	9	•	Ш	20	72	20	1581					#12	STORAGE COOLER EVAPORATOR
SPACE								2	21		•	22	2	20		1581				#12	SALES FREEZER EVAPORATOR
SPACE	1								23			24		20			1581			#12	CONTROL CONTRO
SALES COOLER EVAP FANS	2 00000			648			20		25	• 1		26	1	20	780					#12	CARBONATOR
SALES FRZ DOOR HEAT&LIGHTS	0.1. 576 6.55				480		20		27		•	28	_	20		1080				#12	MUSIC & VIDEO
SALES COOLER DOOR LIGHTS						684	20		9	\perp	<u> </u>	30		20			550			#12	STOR. COOLER DOOR LIGHT & HEAT
KITCHEN FRZ DR HTR & DRAII				690			20		31	•	Ш	32	_	L					\perp		SPACE
KIT FRZ/COOLER SERV LIGHTS	25 000			\vdash	480	100	20		3		•	34	1	20		1788			\vdash	#12	
SALES COOL/FRZR. SVL LIGHTS DOUGH ROLLEF			+	1050	-	480	20		35	++	1	36	1	-	4504				_		SPACE
PIZZA PREP TABLE GF		-	+	1056	1000		20		37	•	\vdash	38	_ /	20	1581	1581				#12	KITCHEN FREEZER EVAPORATOR
FLOOR MIXER			-	 	1020	1680	20	-	1	++-	•	40	_	20		1561	1840		\vdash	#12	FRESH BLENDER
PIZZA FINISH TABLE GF			-	350		1000	15		3			44	+	20			1040		\vdash	#12	SPACE
	T SMIROUS		-	330	600				15	1	╁┼┼	46	1	20		1440		7	\vdash	#12	WARMERS GFI
12 FT HOOI	#12				000	600	20		7	++	H	48	-	20		1440	1440		\vdash	1.00	WARMERS GFI
S/C POP ICE MAKER	R #12		+	1840		000	20		9		H	50		20	336		1110		+	#12	CREAMER GFI
S/C POP ICE MAKER			1	10.10	1840		20	1 5			•	52	1	20		1440			\vdash	#12	WARMERS GFI
GFI POP DISP DPL	1		\top	\vdash		420	20		3	+	 	54	1	20			1020	<u> </u>	\vdash	#12	SUB SANDWICH PREP TABLE GFI
GFI POP DISP DPL	K #12		1	420			20		55	•	\Box	56	1	20	1800				\vdash	#12	CAPPUCCINO #1 GFI
FRONT COUNTER 4 PLEX#	1 #12				900		20	1 5	7		•	58							\top		SPACE
FRONT COUNTER 4 PLEX#						900	20	1 5	9		•	60							Т		SPACE
EX HOOD CONTRO				180			20		31	• 1		62	1	20	720					#12	
HOOD EXTINGUISHER					180		15		3		•	64	1	20		480					KITCHEN/OFFICE LIGHTS
SPACE	2.1							-	55		 •	66	_	20			120				WATER HEATER
SPACE			4						67	•	Ш	68	_	20	1800						KITCHEN DUPLEX/TABLE TOP MIXER
SPACE									9	11	• 11	70	_	20		180			┡	N	LOTTO PWR ISOLATED DPLX
RESTROOM GFCI REG	25 305N		1	\perp	igsquare	360	20			\perp		72	_	20	1500		540		\perp		MAU/RTU SERV. RECEPT
SPACE			-		4005		45		3	•	\sqcup	74		20	1500				\vdash	#12	MICROWAVE GFI
WINE CASE (HUSSMANN GSVM HOOD EXHAUST SERV REC			_		1035	400	15		5		•	76		-					\vdash		SPACE
HOOD EXHAUST SERV REC	#12		-	2735	 	180	20		7 9	+	┤┤┇	78 80		-		-			\vdash		SPACE SPACE
MAU UNI	r #10			2/33	2735		30	3 8		1	\vdash	82		20		720			\vdash	#12	OUTSIDE ICE CHEST FRONT RIGHT
WAO ON	" "10				2/33	3735	30		3	++	Н	84		20		120	720		+		OUTSIDE ICE CHEST FRONT LEFT
				16913	18264		l			VA T	OTAL				14127	13959					
ATTS: BUS A: 3104							4/1														
BUS B: 3222	3																				
BUS C: 2807	Э																				
14-																The state of the s					
OTAL VA: 9134	2		ΔΙ	MPS =	254											DEV/ISI	ON NO.	1			2022-U4-V.02 - JUNE 29, 2022

ELECTRICAL: PANEL B

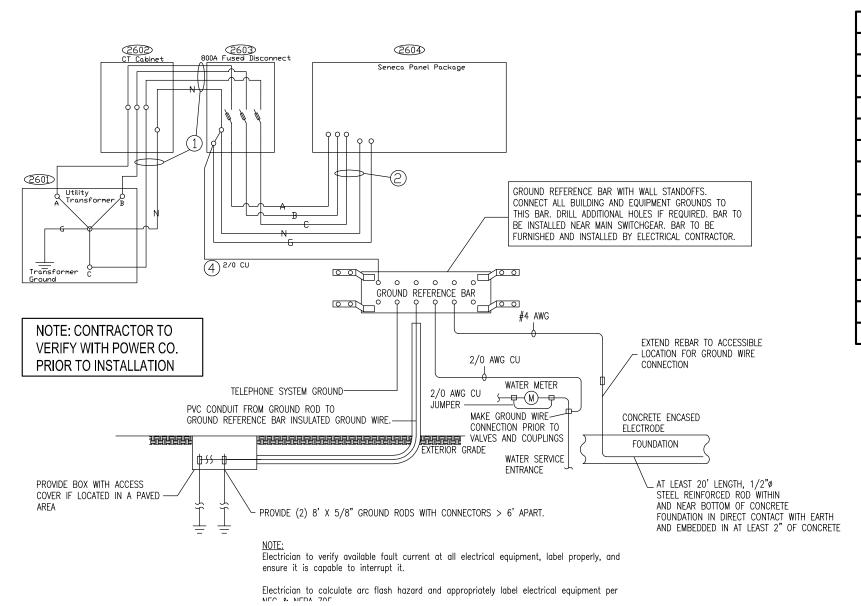
								ELI	ECT	RIC	AL	: P/	ANE	LC	C							
VOLTAGE: 208	Y120							400	AMP	MAII	N CIR	CUIT	BRE	AKE	R							FEED: SEE SCHEDUL
PHASE: 3Ø	WIRE: 4							(SERIE	S RA	TED	65,00	00 A.I	.C.)								MOUNTING: SURFAC
		WIRE		'n		VA		BRK	R CK	T	BUS	s	CKT	BR	RKR		VA			(n	WIRE	
	DESCRIPTION	SIZE	NOTES	ဦ	Α	В	С	AMP	P NO		CON		NO.	Р	AMP	Α	В	С	NOTES	LTG	SIZE	DESCRIPTION
	= =		A -		3600				1	•	Τī	П	2			3600						_ =
	TOP PIZZA OVEN	#8				3600		40	3 3	\top	1		4	3	40		3600				#8	BOTTOM PIZZA OVEN
							3600		5	\top		•	6					3600			1	
					3600				7	1			8	1	20	720					#12	OUTSIDE BLDG RECEPT
	MIDDLE PIZZA OVEN	#8				3600	-1	40	3 9		•		10	1	20		720		Ö	8	#12	OUTSIDE ICE CHEST RIGHT
			51				3600		11			•	12	1	20			720			#12	OUTSIDE ICE CHEST LEFT
					5280				13	_			14									SPACE
	SALES RTU #1	#4				5280		60	3 15		•		16	1	20		360				#12	KIT FREEZER HEAT/OUTLET
							5280		17	\rightarrow		•	18	1	20			720			#12	MNGR OFFICE SW OUTLETS
	SPACE								19	•			20	1	20	1080						DIGITAL MENU MONITORS
	SPACE		8						21	\rightarrow	•		22	1	20		360					DUPLEX KITCHEN (PEST)
	SPACE								23			•	24	1	20	\sim		525		\downarrow	#12	KITCHEN QUAD OUTLET GFL
	SPACE			1					25				26							<u> </u>		SPACE
	SPACE								27	\rightarrow	•		28		\smile		2400					
	SPACE					~~			29			•	30	3	30			2400			#10	BREAD OVEN/PROOFER
	TENDERLOIN FRYER GFI	#10	V V		1730	· ·	· ·	30	2 31				32			2400			9			
		π10	_ ^			1730			2 33	1	•		34	1	20		720				77.00-07.00-06.1	DUPLEX MANAGER'S OFFICE
	SPACE)		35			•	36	1	20			720			#12	HEAT TAPE OUTLET SALES FRZ
	SPACE								37	1			38									SPACE
	SPACE						8		39		•		40									SPACE
	SPACE								41	\Box		•	42	1	20			468			#12	STORAGE COOLER HEAT TAPE
	BATH RM.BACK RM LIGHTS	#12			240			20	1 43	•			44	2	20	1760					#12	BEAN TO CUP
	CEILING LIGHTS 1 & 2	#12				720		20	1 45		•		46	-	20		1760				π12	BEAN TO COP
	CEILING LIGHTS 3 & 4						720	20	1 47			•	48	1	20			1596			#12	MENS HAND DRYER
·	EXTÉRIOR LÌGHTS	#12		ľ	500	Ť		20	1 49	7			50	1	20	468					#12	BATH EXHAUST FAN
	EXTERIOR LIGHTS	#12				500		20	1 51	71	•		52	1	20		1800					COLD BREW COFFEE #1
	CUSTODIAN LIGHTS	100000000000000000000000000000000000000		\bigcap			225	20	1 53			•	54	1	20			1800			C.C	COLD BREW COFFEE #2
	CIGARETTE RACK	#12			720		T.	20	1 55	•			56	1	20	1596			Ĭ		#12	WOMENS HAND DRYER
	AIR COMPRESSOR	#12				468		20	1 57		•	П	58	1	20		720				#12	WATER SOFTNER
	SPACE		3						59			•	60	1	20			900			#12	WATER FILTER/GP OUTLET
	SPACE								61	1		П	62	1	20	230					#12	ATTIC OUTLET
	SPACE								63		•		64									SPACE
							3603		65			•	66	1	20			230			#12	ATTIC LIGHTS
	SALES FREEZER CU	#10			3603			30	3 67	1			68									SPACE
						3603			69		•		70	1								SPACE
			24				3490		71			•	72	1				449			#12	ICE CREAM MERCHANDISER
	KITCHEN FREEZER CU	#10			3490			20	3 73	1			74	1	20	360				\mathcal{I}	#12	PAPER TOWEL DISPENSERS
						3490			75		•	$\prod 7$	76	П				Ť	<u> </u>	1	Ť	SPACE
			2.				1802		77	\Box		1	78									SPACE
	KITCHEN COOLER CU	#12			1802			15	3 79	•		П	80									SPACE
						1802	437		81		•		82									SPACE
	SPACE								83	П		•	84									SPACE
WATTS: BUS	A: 36779		91	-	24565	24793	22320			V	A TO	TAL				12214	12440	14128	l			
BUS																						
BUS																						
ВОЗ	5																					
TOTAL VA:	110460				IPS =	307											REVISI					2022-U4-V.02 - MAY 10, 2022

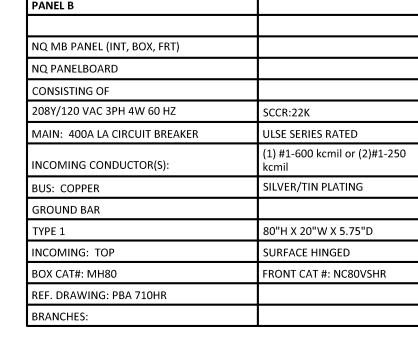
PANEL C	
NQ MB PANEL (INT, BOX, FRT)	
NQ PANELBOARD	
CONSISTING OF	
208Y/120 VAC 3PH 4W 60 HZ	SCCR:22K
MAIN: 400A LA CIRCUIT BREAKER	ULSE SERIES RATED
INCOMING CONDUCTOR(S):	(1) #1-600 kcmil or (2)#1-25 kcmil
BUS: COPPER	SILVER/TIN PLATING
GROUND BAR	
TYPE 1	80"H X 20"W X 5.75"D
INCOMING: TOP	SURFACE HINGED
BOX CAT#: MH80	FRONT CAT #: NC80VSHR
REF. DRAWING: PBA 710HR	

2 Electrical Panel Schedules

Not To Scale

ELECTRICAL LOAD CALC	ULATIONS	3	NEC
BUILDING NAME: CASEY	RAL	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 EQUIPMENT		96,726 VA	TABLE 220.56
HVAC SYSTEMS		48,720 VA	NAMEPLATE DATA
FUEL EQUIPMENT (PUMPS, ETC	C.)	20,508 VA	NAMEPLATE DATA
REFRIGERATION SYSTEMS		41,560 VA	NAMEPLATE DATA
FUTURE		10,800 VA	
TOTAL BUILDING LOAD			
265,806 VA/360 V = 738 A		255,073 VA	
800 AMPS AT 120/208 VOLTS 3 PHASE, 4-WIRE			





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

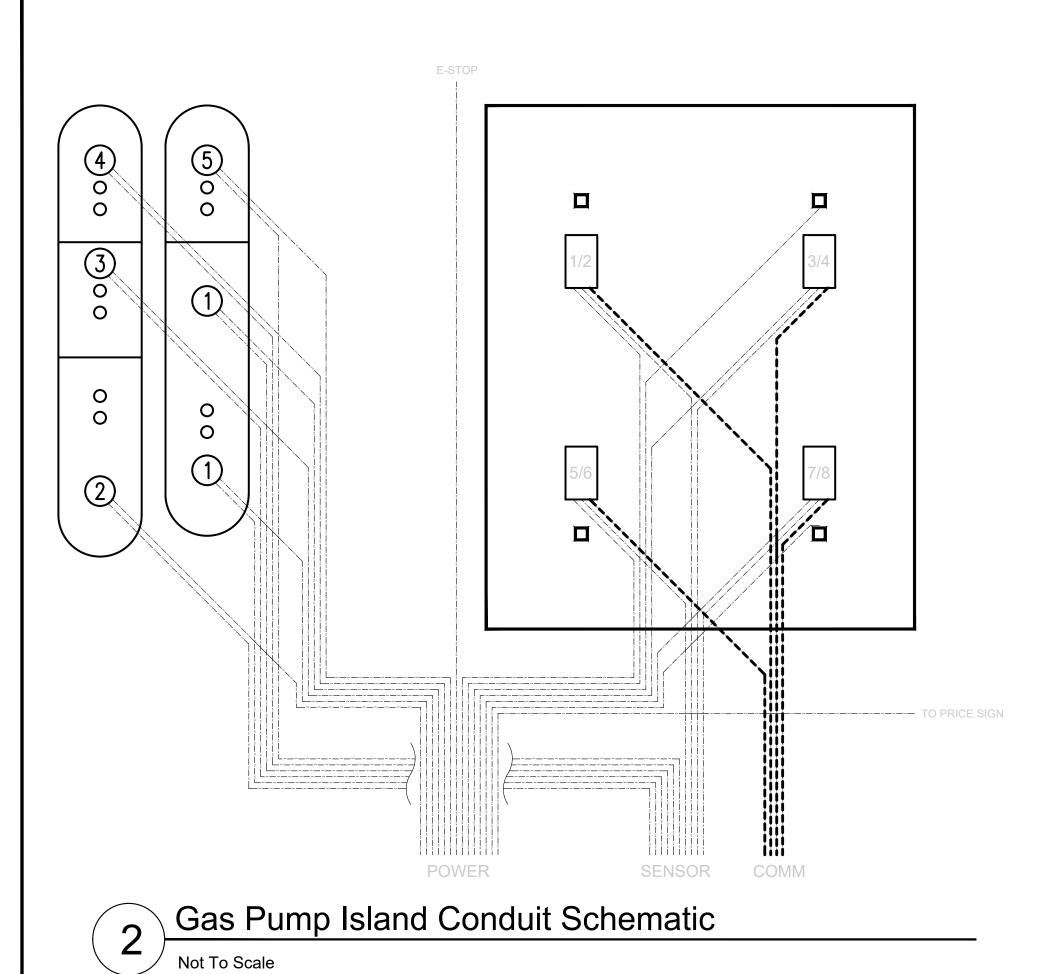
Connect 2604 to ground reference bar with appropriate sized conductor and ensure panels N-G are bonded.

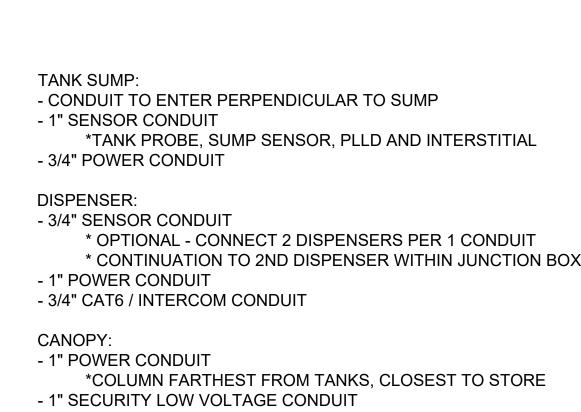
Connect 2604 to ground reference bar with appropriate sized conductor and ensure disconnect N-G are bonded.

OF MISSON
JOSEPH C. BINGE
NUMBER PE-2014012014
STONAL ELECT

Ca	isey's	SCHEN Poeign with Purpor 1044 North 115th Street, Suite 300 Omaha. NE 68154	AMER DOES. Build with Confidence. COA Number CA0666
CASEY'S GE MO-150 & AR LEE'S SUMMIT, 2023 - U4 -	MO	PUBLISHED: 10/18/2023 REVISED ON:	PANEL SCHEDULES & SERVICE DETAILS
PROJECT NUMBER: 07164.057 DRAWN BY:	CHECKED BY:		E-601

.07164057_CAD\Elec\09_E-601.dwg /17/2023 11:45:46 AM Langholdt, Dawson





- 1" CANOPY GROUND
PRICE SIGN:
- 1" POWER CONDUIT

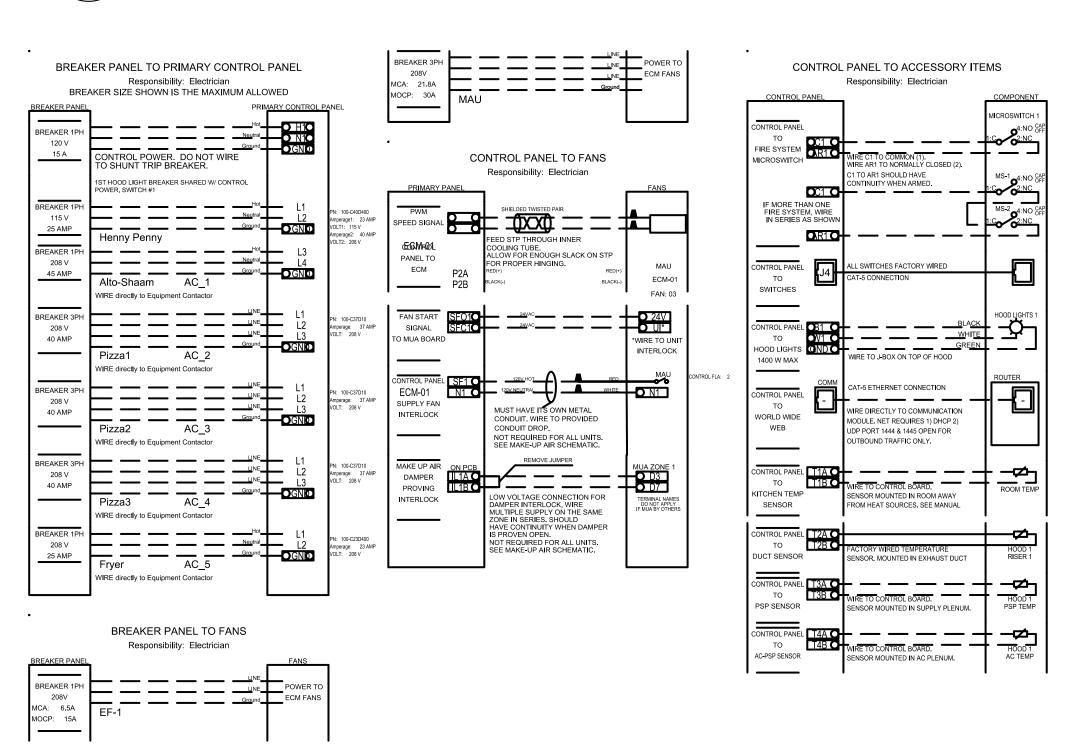
AREA LIGHTING: - 3/4" POWER CONDUIT AS NEEDED

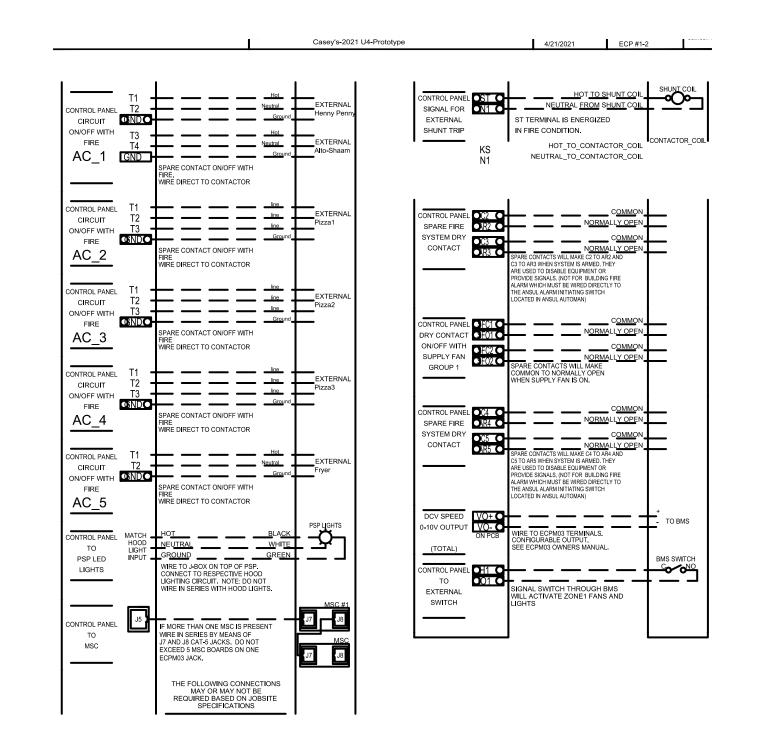
EMERGENCY STOP:
-3/4" POWER CONDUIT AS NEEDED

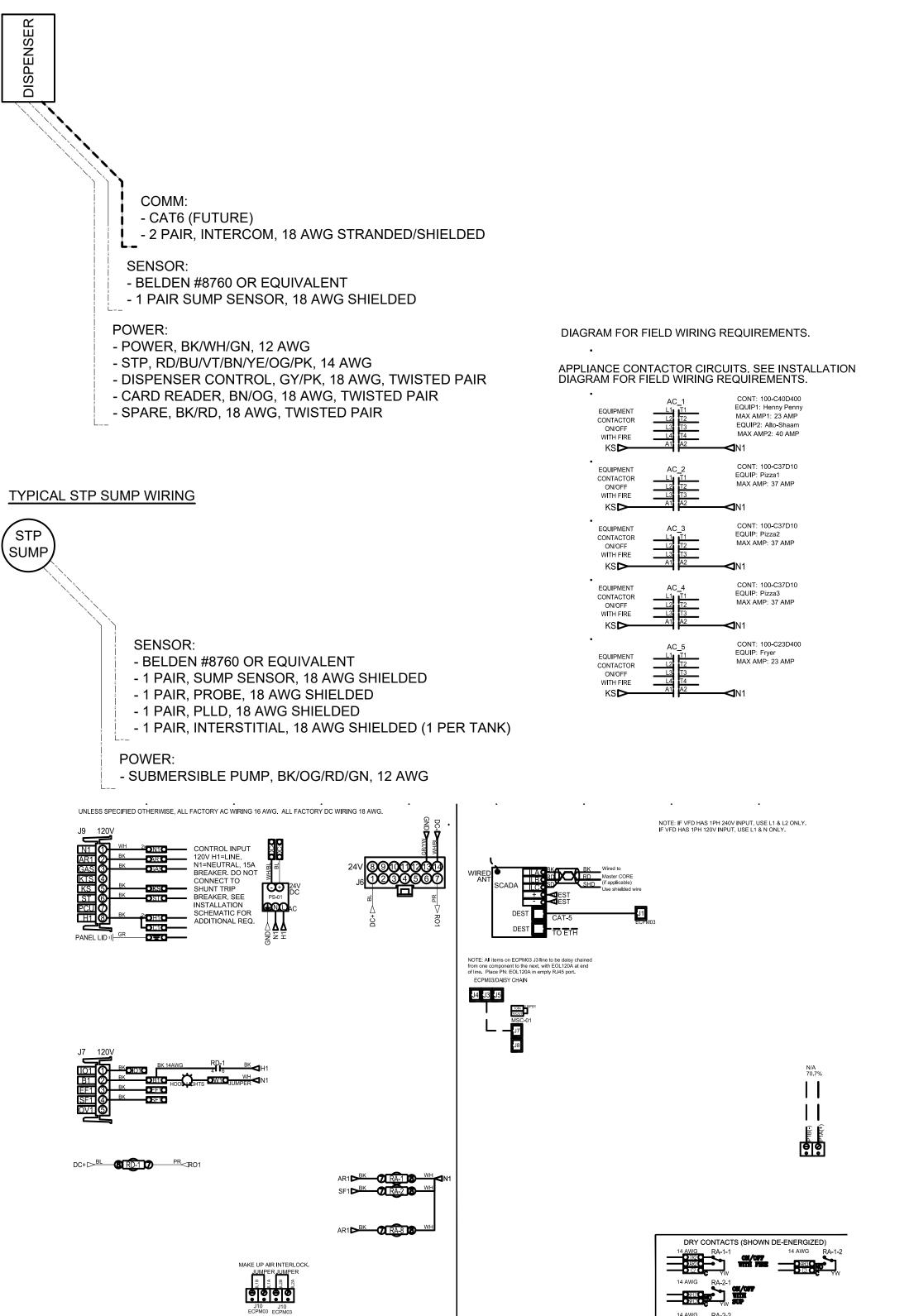
NOTES:
- LOCATION AND QUANTITY OF EQUIPMENT MAY VARY PER SITE.
- INTERCOM NUMBERING TO MATCH DISPENSER NUMBERING.
- TANK SUMP WIRING: USE ONLY OWNER SUPPLIED KILLARK JUNCTION BOX AND HUBBELL CONNECTORS. ADDITIONAL 18" WIRE COILED AND ROLLED IN JUNCTION BOX.
- COORDINATE ELECTRICAL CONDUIT SO THAT CANOPY COLUMNS CONTAINING VENT LINES ARE NOT ALSO USED FOR CONDUIT.
- REFER TO SHEETS QF-101, QF-201 AND QF-301 FOR MORE INFORMATION

- CAT6 CABLE FROM DISPENSERS TO LOW VOLTAGE DISCONNECT TO THE

CAT6 FROM LOW VOLTAGE DISCONNECT TO SAGENET.







TYPICAL DISPENSER WIRING

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

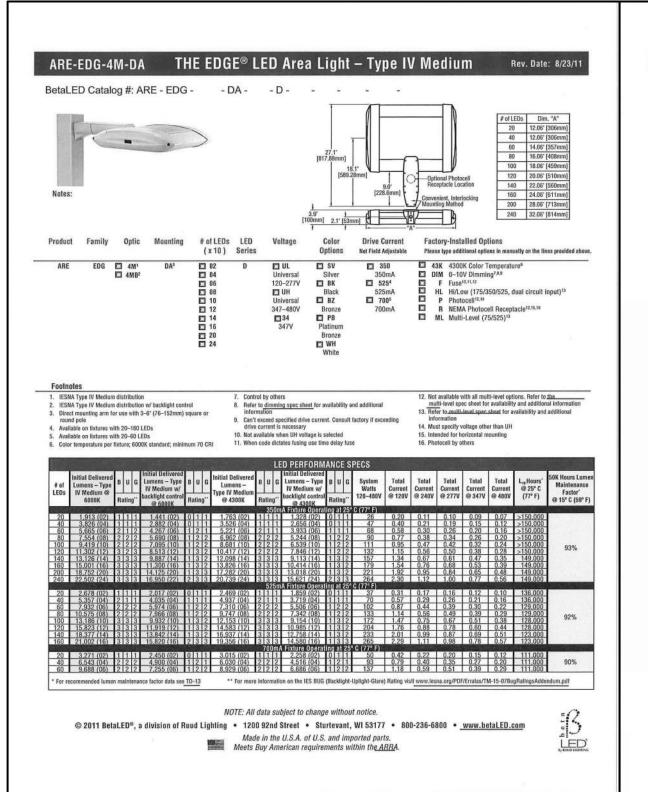
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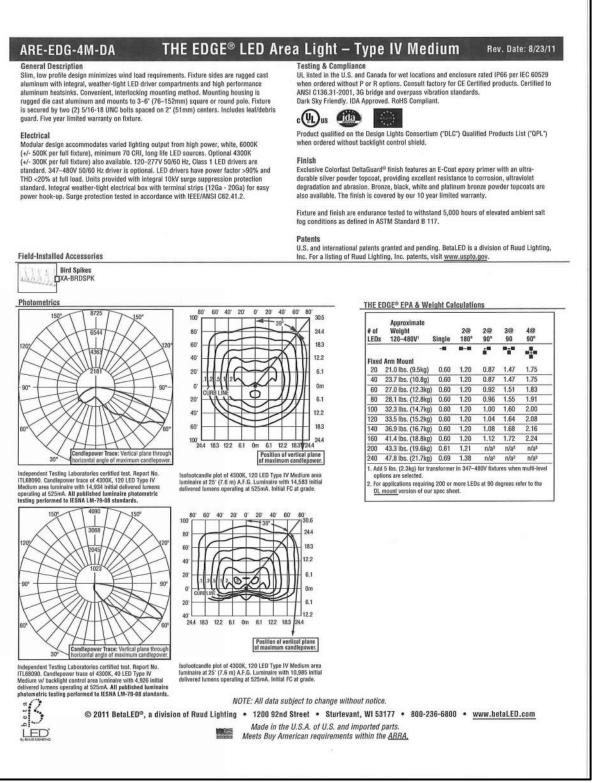


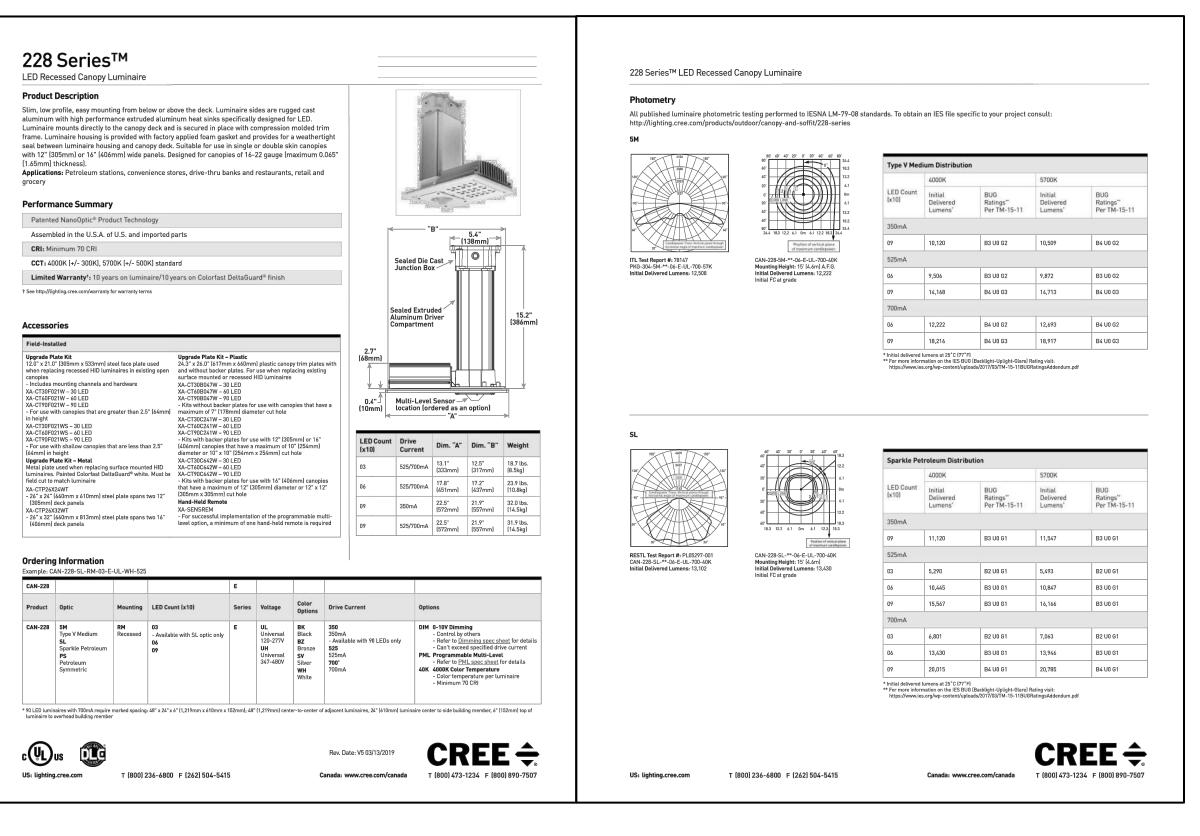
**	SCHEM	IM≣R
Casey's	1044 North 115th Street, Suite 300 Omaha, NE 68154	. Build with Confidence. COA Number CA0666
CASEY'S GENERAL STORE MO-150 & ARBORIDGE DR LEE'S SUMMIT, MO 2023 - U4 - V.01	0 PUBLISHED: 10/18/2023 REVISED ON:	ELECTRICAL SCHEDULES & SCHEMATICS
PROJECT NUMBER: 07164.057 DRAWN BY: CHECKED BY:		E-602

28 X 18 X 8.62 BOX

07464057\ CAN\Flac\00 F_603 dwg



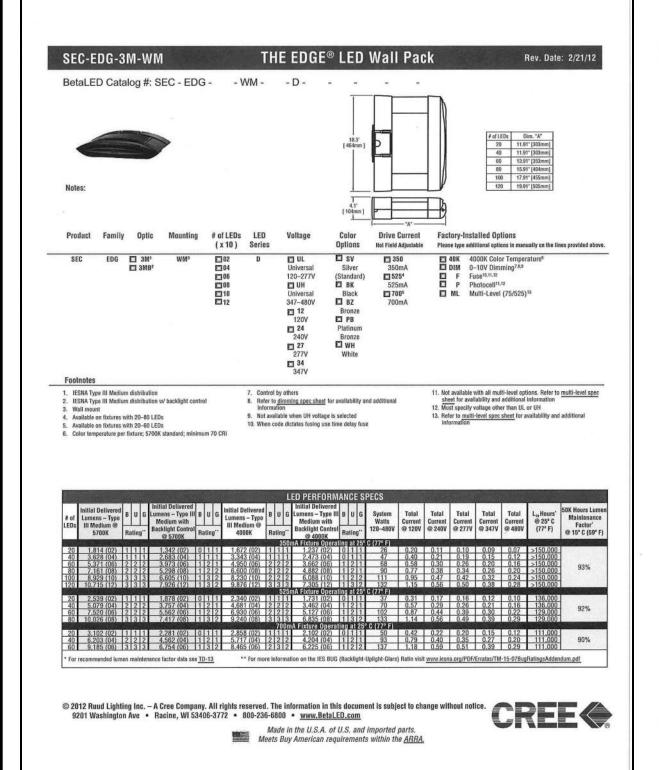


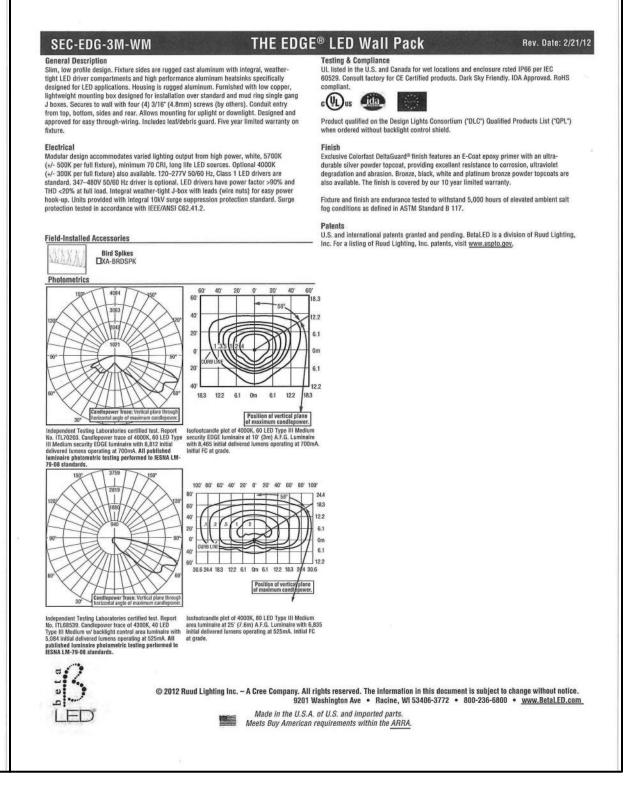


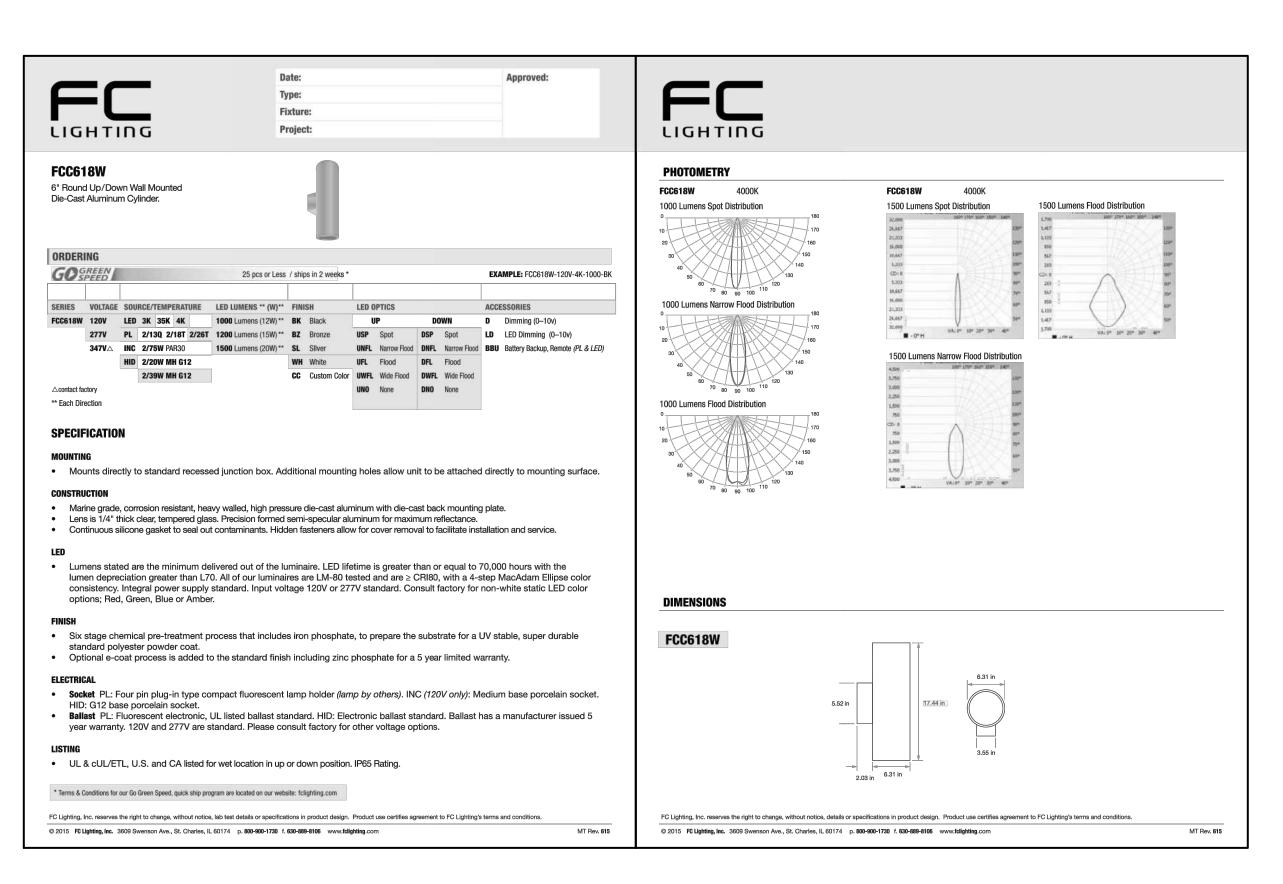


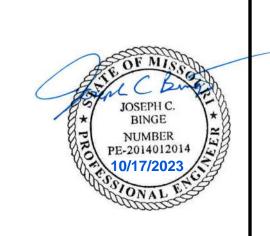


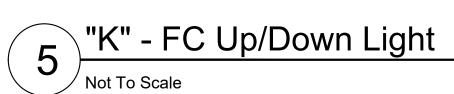


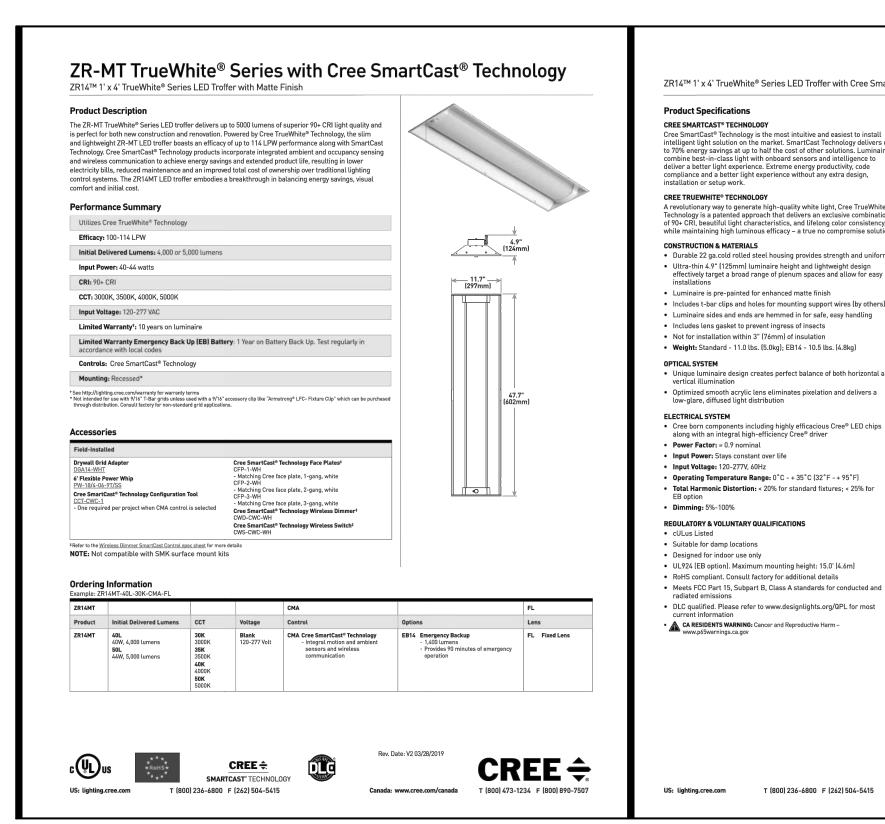


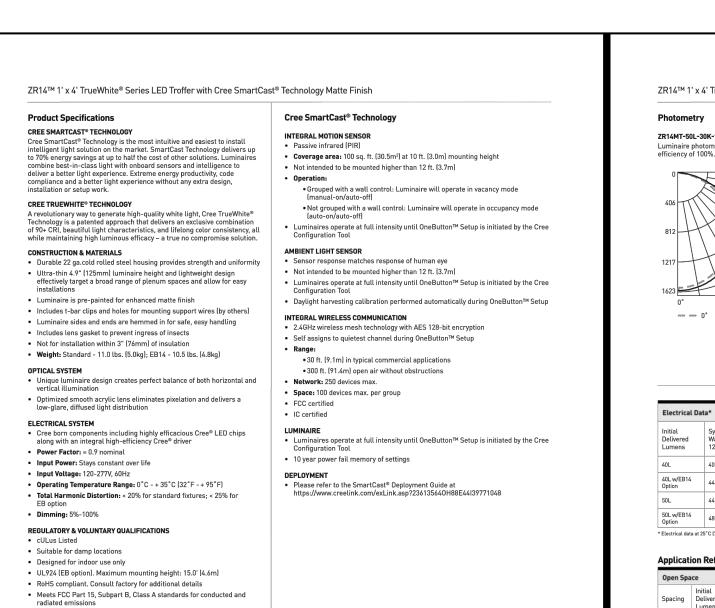




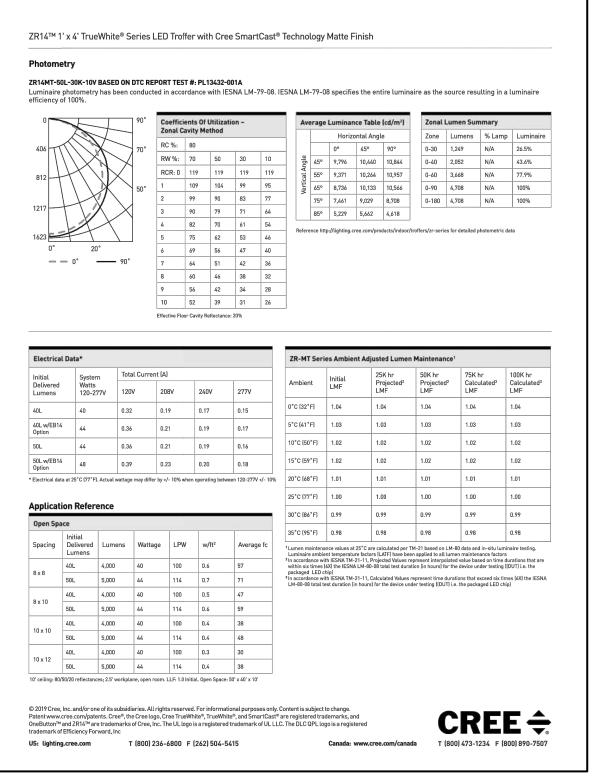


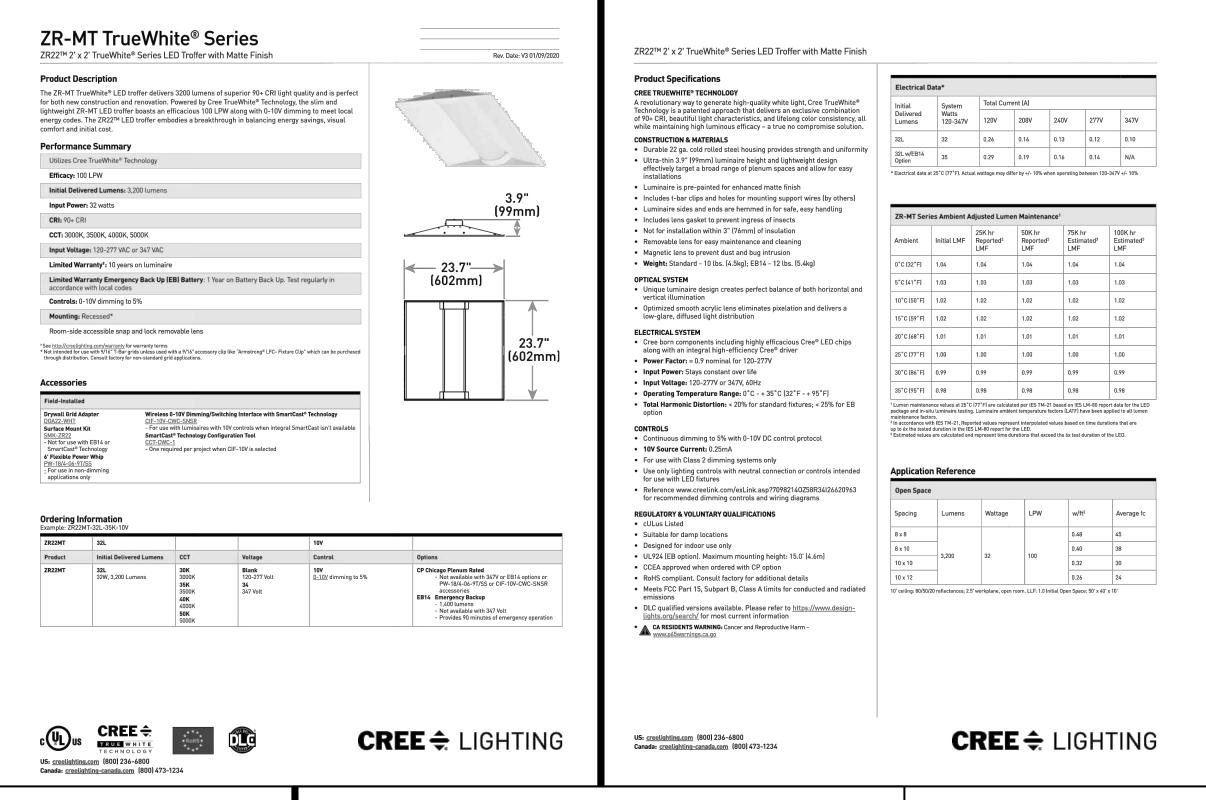






T (800) 236-6800 F (262) 504-5415

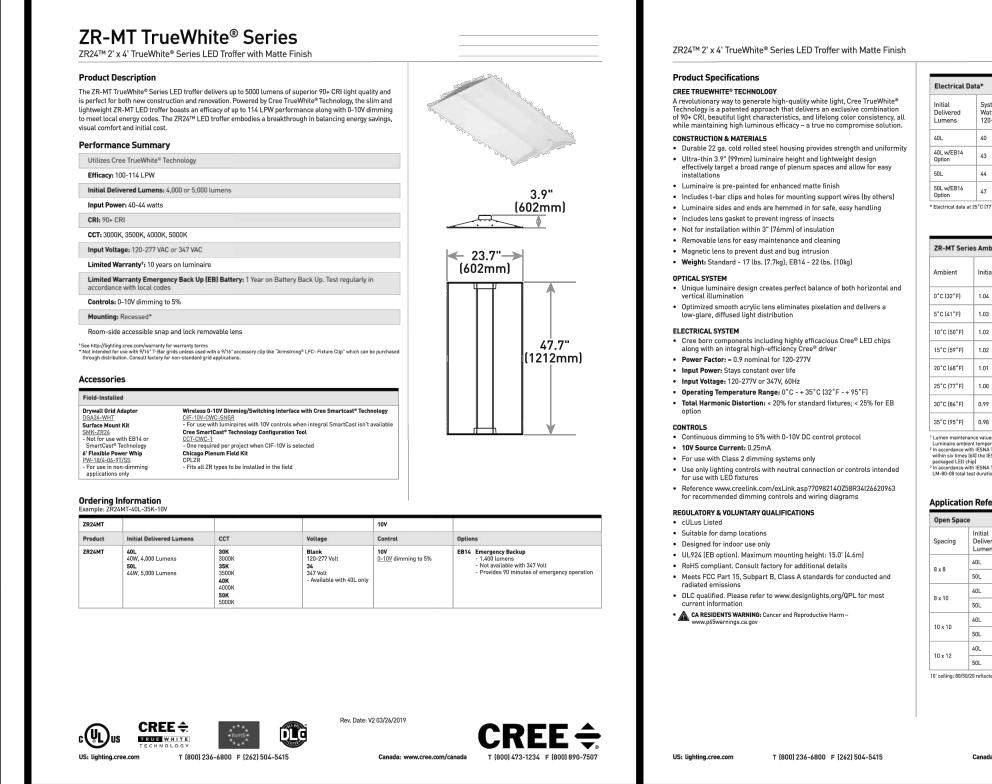


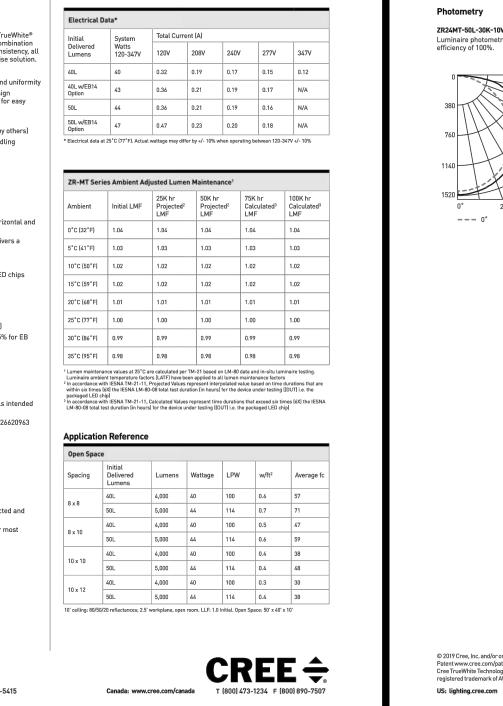




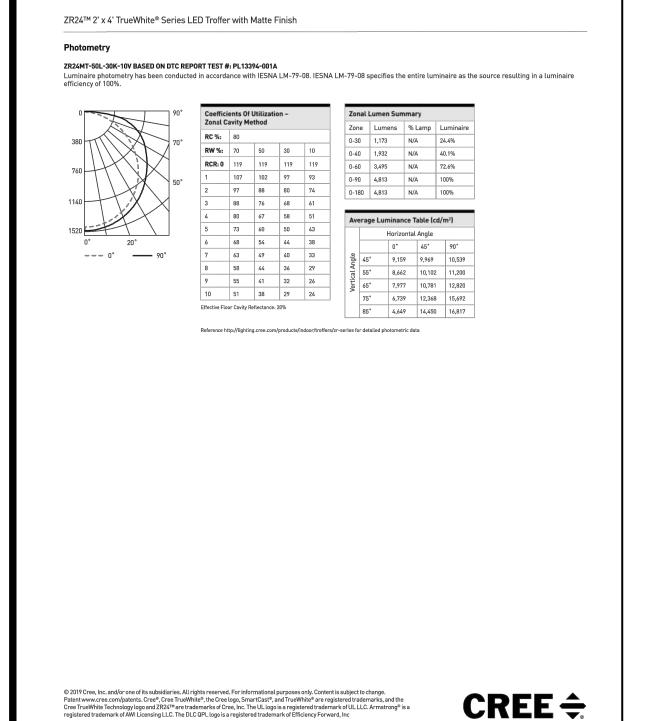
Beta CREE 1x4 LED Recessed Troffer

Not To Scale

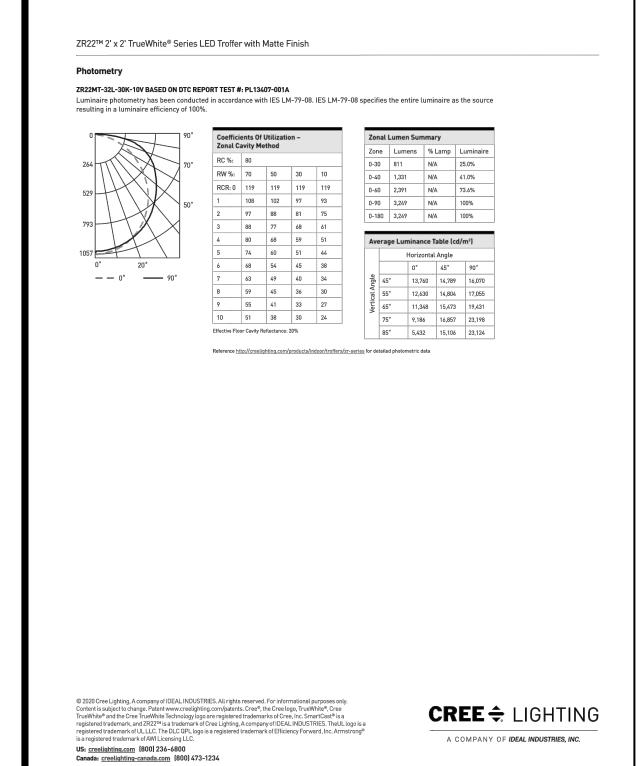




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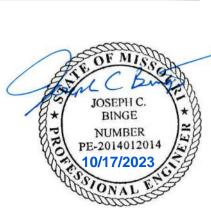


T (800) 236-6800 F (262) 504-5415



Beta CREE 2x2 LED Recessed Troffer

Not To Scale

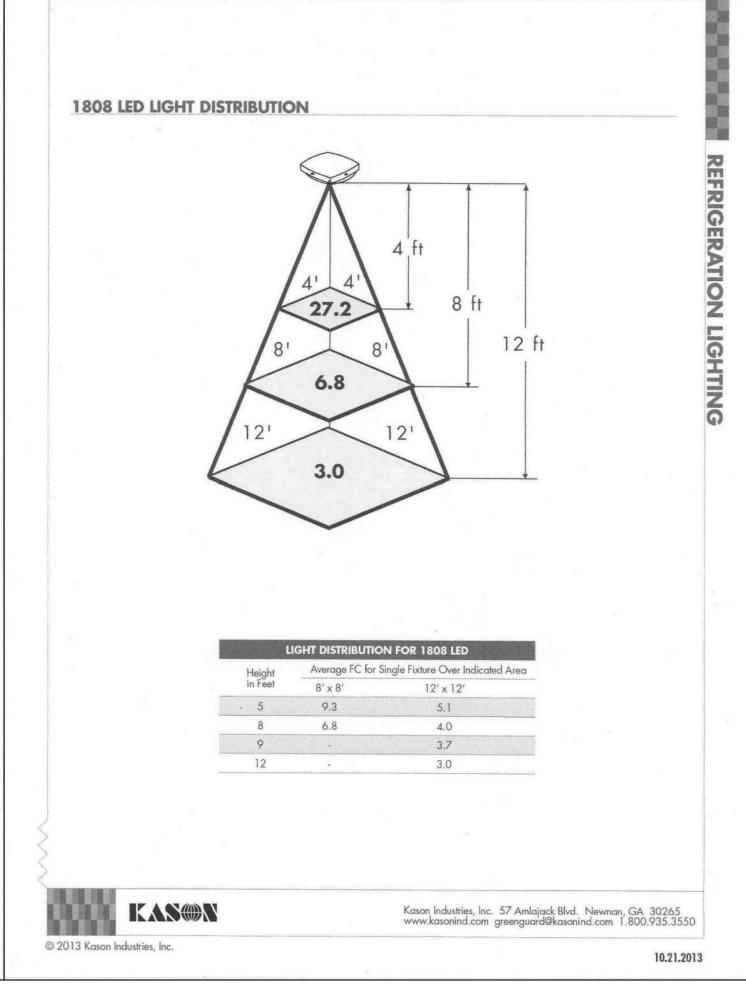


SCHEMMER 1044 North 115th Street, Suite 300 CASEY'S GENERAL STORE 10/18/2023 MANUFACTURER MO-150 & ARBORIDGE DR **INTERIOR LIGHTING** LEE'S SUMMIT, MO CUT SHEETS 2023 - U4 - V.01 PROJECT NUMBER: E-701 07164.057

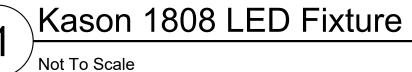
Beta CREE 2x4 LED Recessed Troffer

✓ Not To Scale











Square Head LED LCAC-2SQLED Series LED Exit and heads thermoplastic combination unit



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

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

Damp location 50°F to 104°F (10°C to 40°C)

id UL

UL 94, 5VA flame rated

Optional Improved Diagnostics

• 120/277 60Hz

UL 924 listed

LCAB-2SQLED Series

1W LED heads, thermoplastic 3.6V Nickel-Cadmium battery unit



Low voltage disconnect Automatic brownout protection Battery lock-out

Pulse plus charger

• Fused output circuit

• 120/277 60Hz

Battery type

Approvals

UL 924 listed

UL 94, 5VA flame rated

Three-year full warranty

• Optional: Improved Diagnostics

Damp location 50°F to 104°F (10°C to 40°C)

Warranty (subject to proper installation and maintenance)

UV stabilized thermoplastic body • Two fully adjustable glare-free square lighting heads White finish

Mounting Ceiling or wall mount

Universal J-box mounting

Lamp Type

Two 3.6V-1W LED heads total 200 lumens, CCT 6000K

Remote capacity for ELF612 or LCARDSQLED available with

optional Improved Diagnostics

Photometric performance

Center-to-center spacing Photometric Spacing for 1FC average

Detailed warranty terms located on page 182 or online at: www.lightalarms.com

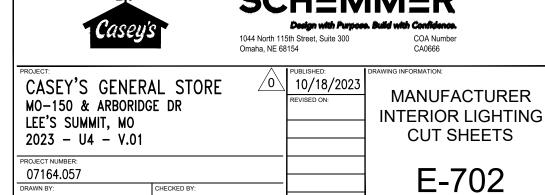
3.6V maintenance free rechargeable Nickel-Cadmium battery

Not To Scale

Power consumption chart

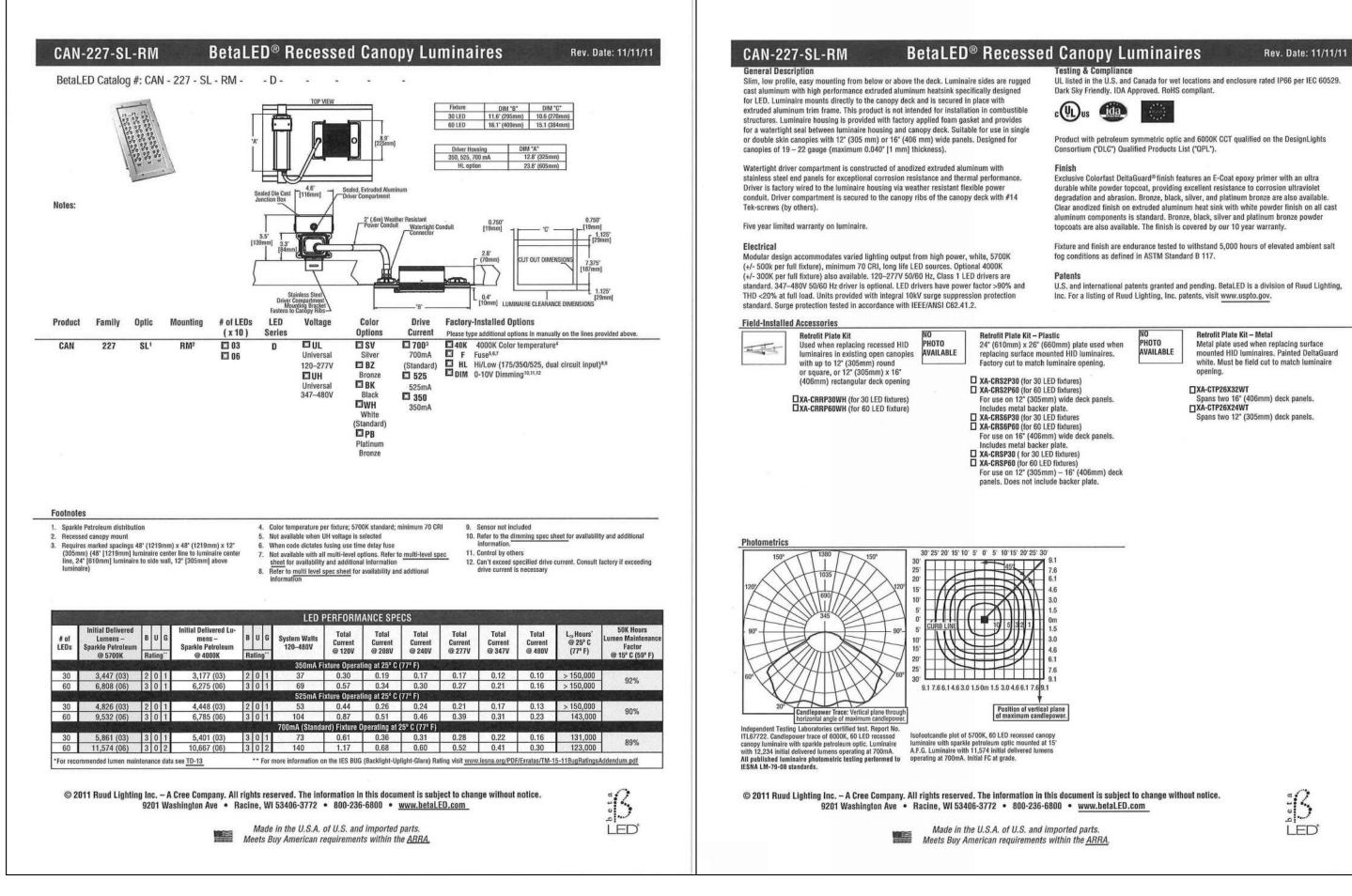
		DC Specs	AC Specs
Series	Battery	Battery	Units dual voltage ²
LCAB-2SQLED		3.6V	120/277, 60Hz, 0.024A
LCAB-2SQLEDR	Nickel-cadmium	3.6V	120/277, 60Hz, 0.028A
LCAB-2SQLEDRID		3.6V	120/277, 60Hz, 0.028A



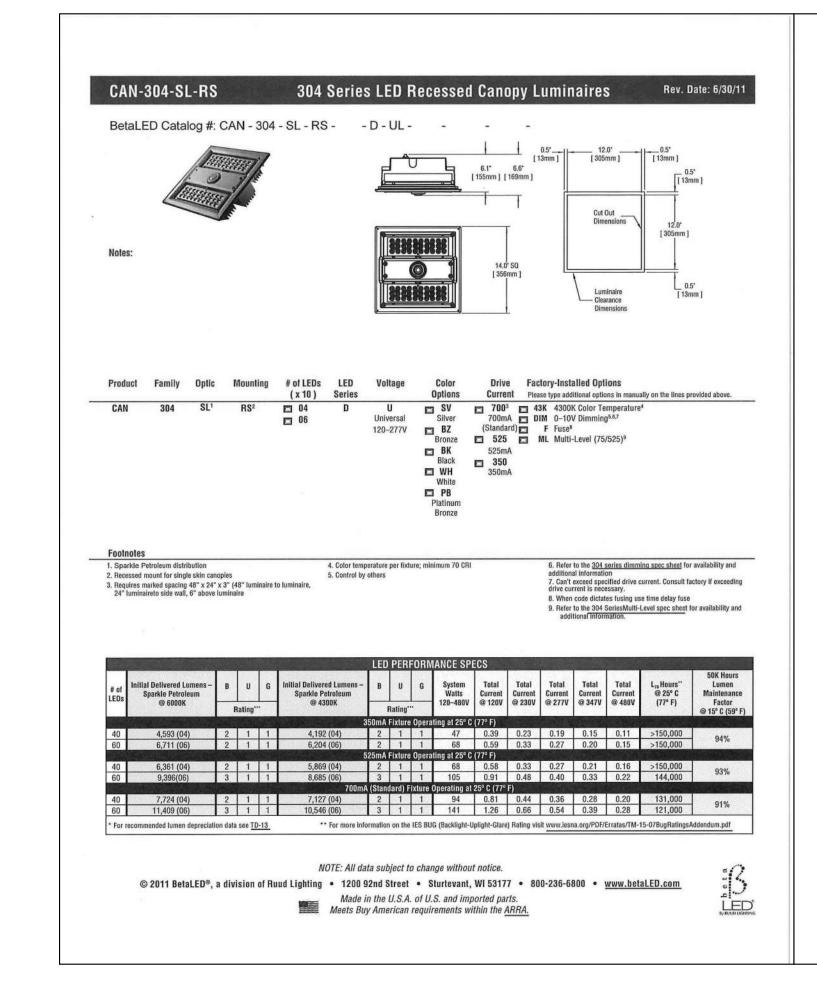


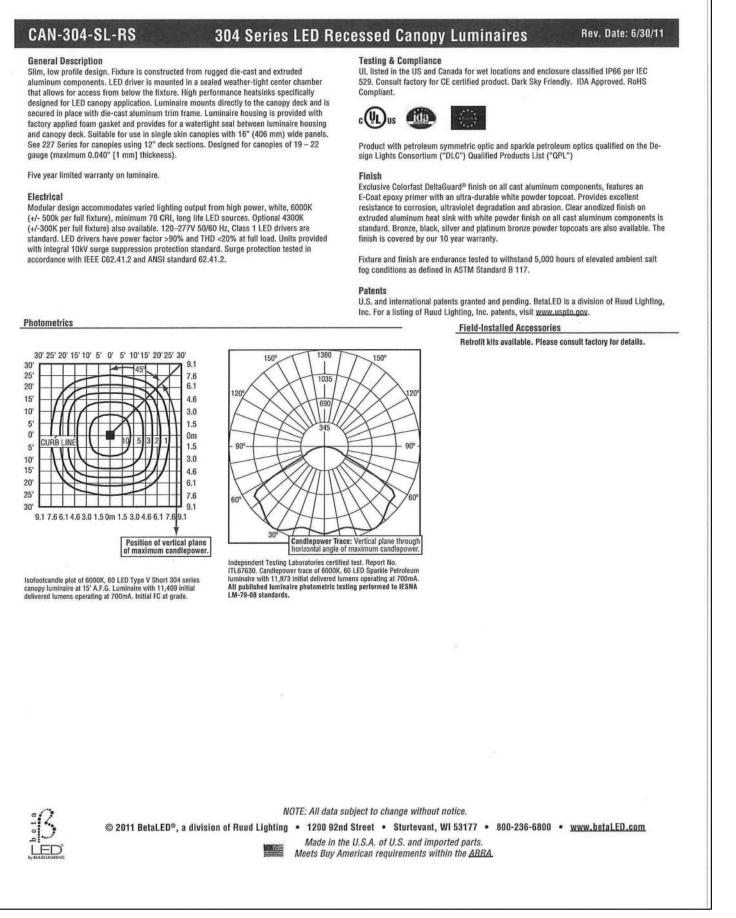
3 Exit Sign & Emergency Lighting

Not To Scale







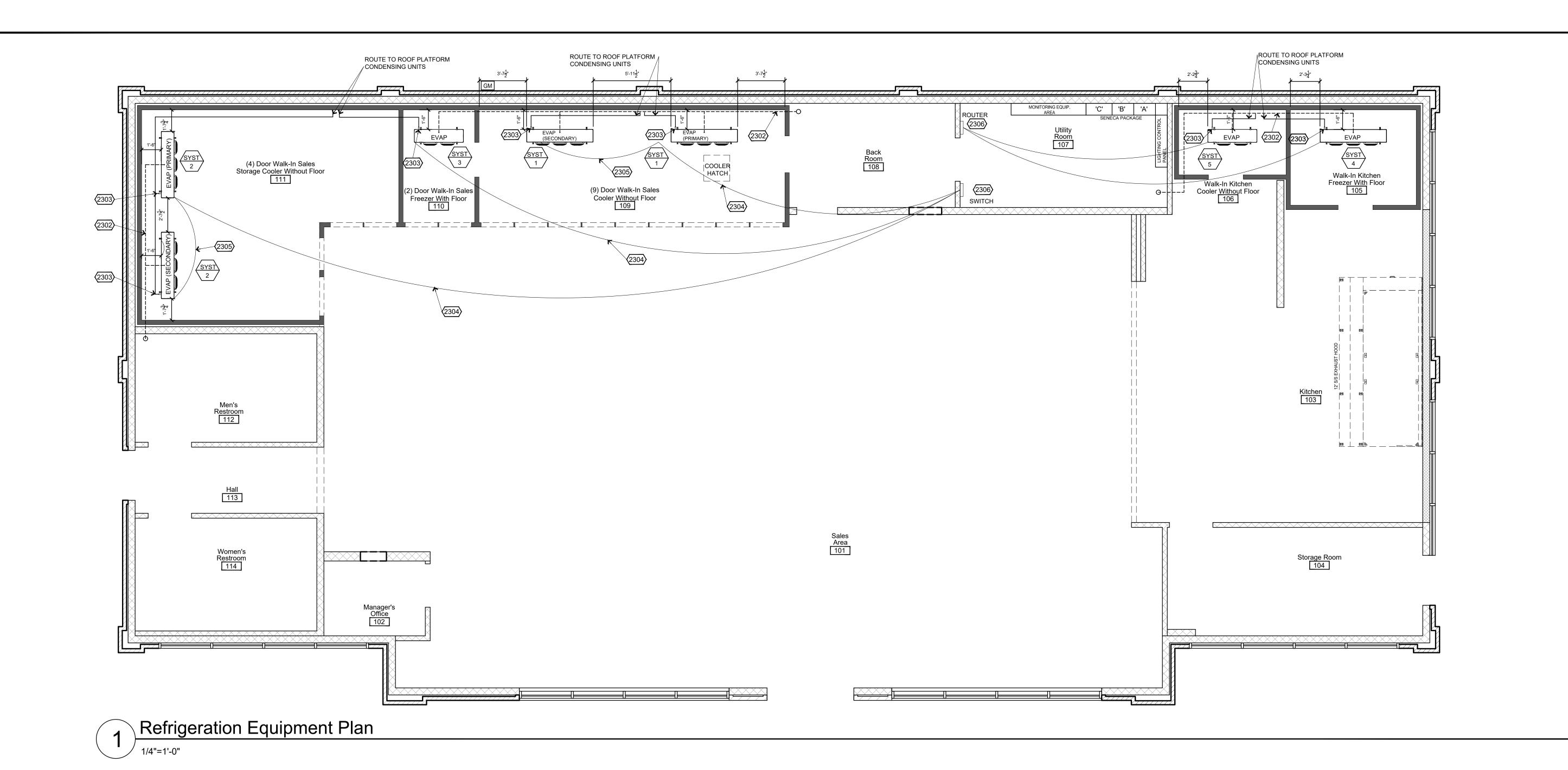


LED



1044 North 115th Street, Suite 300 Omaha, NE 68154 CASEY'S GENERAL STORE 10/18/2023 MANUFACTURER MO-150 & ARBORIDGE DR **CANOPY LIGHTING** LEE'S SUMMIT, MO CUT SHEETS 2023 - U4 - V.01 PROJECT NUMBER: E-703 07164.057

Recessed Beta LED Canopy Fixture 304



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
- DRAIN LINES IN WALLS TO BE INSULATED (NO TRAPS INSIDE INTERIOR WALLS)
 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
- 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 IN THE HEATCRAFT BEACON II SMART CONTROLLER I&O MANUAL AND
- THE HEATCRAFT QUICK RESPONSE CONTROLLER I&O MANUAL.

 13. All FREEZER/COOLER WALK-INS WITH SINGLE EVAPORATOR TO BE
- 14. WALK-INS EVAPORATOR DIMENSIONS ARE FOR ROUGH-IN PURPOSES.
- 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
- UNIT STAND

 17. CONTROL WIRING (FIELD WIRING) TO BE SHIELDED CABLE. GROUND CABLE ONE END.

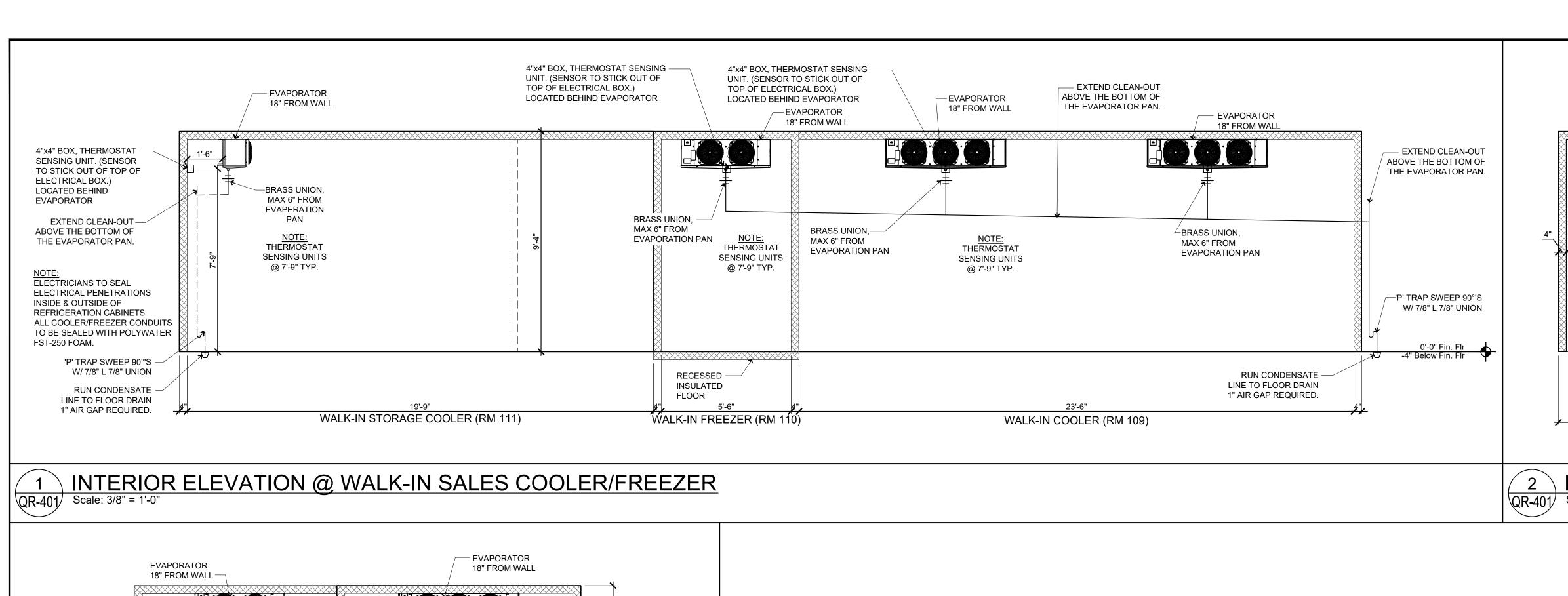
Keyed Construction Notes

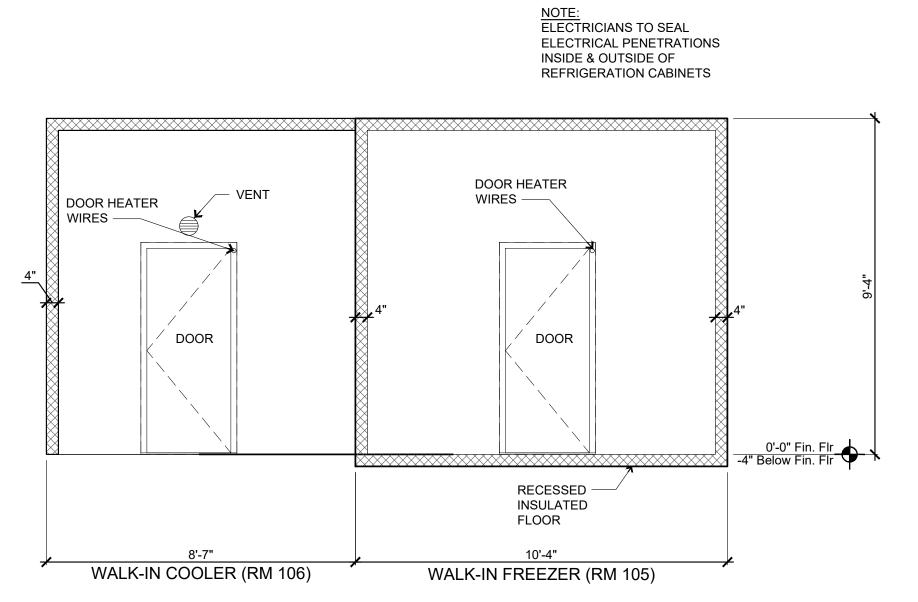
- CONDENSING UNITS LOCATED ON ROOF. COMPRESSOR RACK LOCATED UNDER ROOF TRUSSES.
- (2302) ROUTE CONDENSATE LINES TO FLOOR DRAINS, RE: PLUMBING DRAWINGS
- (2303) OIL TRAP ON ALL SUCTION RISERS
- RUN ELECTRICAL WIRING (SHIELDED CABLE) BETWEEN SWITH BOX AND EVAPORATORS. CAT 5 CABLE
- 2305 18-2 SHIELDED CABLE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

															2022-U4-V	/.02-Refrige	eration Sche	edule																			
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ional Design Date: May 12, 2	022 В	By: ldm	Revision	Number: 0	Re	Revision Date: N/A		By: N/A																													
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em Number Equipment l	ocation B	Box Temperature	Box Area	Doors B	ox Load	Equipment Type	Equipment Model Numbe	er Unit 5tyle Qua	ntity Fan	Qty	Cor	pressor Data		Refrig	gerant	Oil C				Line 5iz	es							Electrical	Data (each)						Dimen:	sions	Wei
			I.D.	Glass +			Climate Control	Nu	mber		Copeland	S5T	Capacity	Туре	Weight	Туре	Amount								İ		densing Unit	ļ		vaporator			Total				
			FT ²	Pass	BTUH			Cabinet	Jnits Ea	ach Hi	P 5 - Scroll	Coil Temp.	- BTUH	1	pounds		ounces	Liquid		5uction	···	5uction Ri		Volts	hase	Cycle Cor	np Fans	Fans	Defro		ers - (Electric		MCA	M()P		oth Height	Net W
				Thru							H - Hermeti	2° Line Loss	s 100 °F Amb	_	pounds		- Currees	Main B	ranch	Main I	Branch	Main B	ranch			RL	A FLA	FLA/RLA To	tal FLA Typ	e FLA	Total FLA	Watts		inche	es inch	nes inches	pou
tem #1 5ales Cooler		34° F				Condensing Unit - (CU)	CCH0035MCACZ	C3	1	1 3.5	5 ZS26KAE - (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			1/2 29 1/4	
tem # 2 Storage Cooler		31° F				Condensing Unit - (CU)	CCH0030MCACZ	C3	1	1 3.6	0 Z521KAE - (S) 19°F	24,110	R-449A	20	POE			1/2	1 1/8				208-230	3	60 13	7 3.5						21			1/4 29 1/4	
tem #3 5ales Freezer		-12° F				Condensing Unit - (CU)	CCH0035LCACZ	C2	1	2 3.	5 ZF11K4E - (S	-24°F	10,900	R-449A	14	POE		3/8		7/8		7/8		208-230	3	60 12							20	25 39 1	/8 28 5	5/16 19 3/4	23
tem #4 Kitchen Freezer		0° F				Condensing Unit - (CU)	CCH0035LCACZ	C2	1	2 3.	5 ZF11K4E - (S	-12°F	13,610	R-449A	14	POE		3/8		7/8		7/8		208-230	3	60 12	2 2					$\overline{}$	20	25 39 1,	/8 28 5	5/16 19 3/4	2
stem # 5 Kitchen Cooler		36° F				Condensing Unit - (CU)	CCH0010MCACZ	C1	1	1 1.0	0 ZS09KAE - (S) 24°F	9,350	R-449A	14	POE		3/8		7/8		5/8		208-230	3	60 7.	. 0.5					$\overline{}$	15	15 25 1,	<u>/8 28 1</u>	1/2 19 3/4	17
						···																										\longrightarrow			—		
stem #1 5ales Cooler		34° F	204		24,400	Evaporator	CEL0155A56AMA		2	3				R-449A										115	1	60		2.7	5.4 Air							3/8 17 11/16	
tem # 2 Storage Cooler		31° F	274	·	19,500	Evaporator	CEL0130B56EMA		2	3				R-449A										208-230	1	60		1.5	3 E	13.7		3150				3/8 17 11/16	
stem # 3 5ales Freezer		-12° F	48		9,700	Evaporator	CEL0100B56EEA		1	2				R-449A										208-230	1	60		1.1	1.1 E	9.1		2100				3/8 17 11/16	
stem #4 Kitchen Freezer		0° F	71		11,000	Evaporator	CEL0155B56EEA		1	3				R-449A										208-230	1	60		1.5	1.5 E	13.7		3150		61 1/	2 15 ?	3/8 17 11/16	<u> 7</u> 5
stem #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 15 🛭	3/8 17 11/16	ز

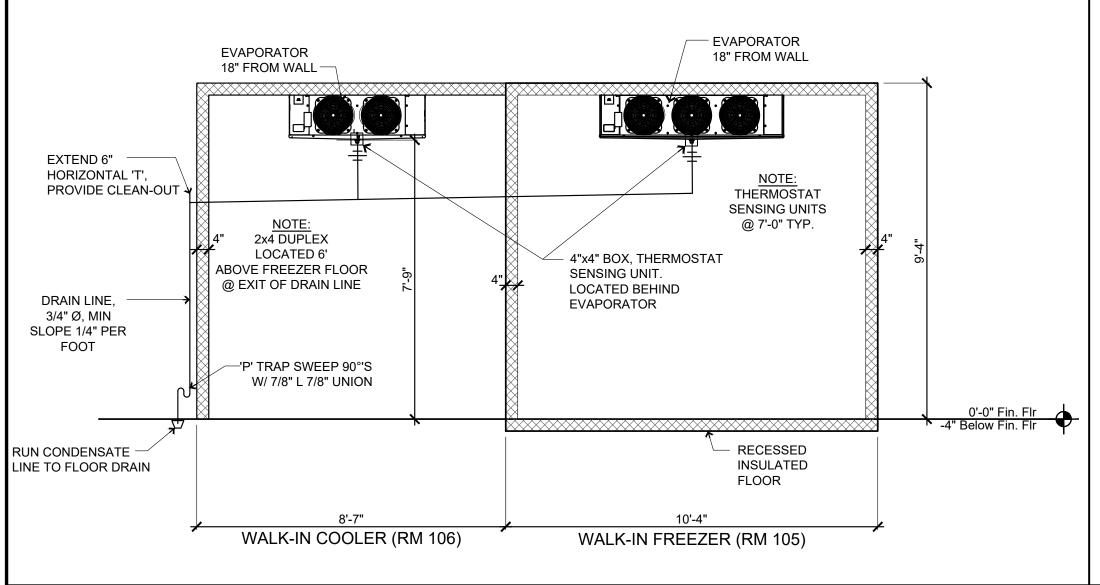
DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.

Case	ys Co	asey's	Casey's
One C	CASEY'S CONsonvenience Blvd., P.O. B		
	'- STYLE STORE RICK & STONE)	PUBLISHED: 06/18/21 REVISED ON:	REFRIGERATION EQUIPMENT PLAN
DRAWING INFORMATION: CONSTRUCTION DRAWN BY: JIM VILMAIN	DIVISION CHECKED BY:		QR-101





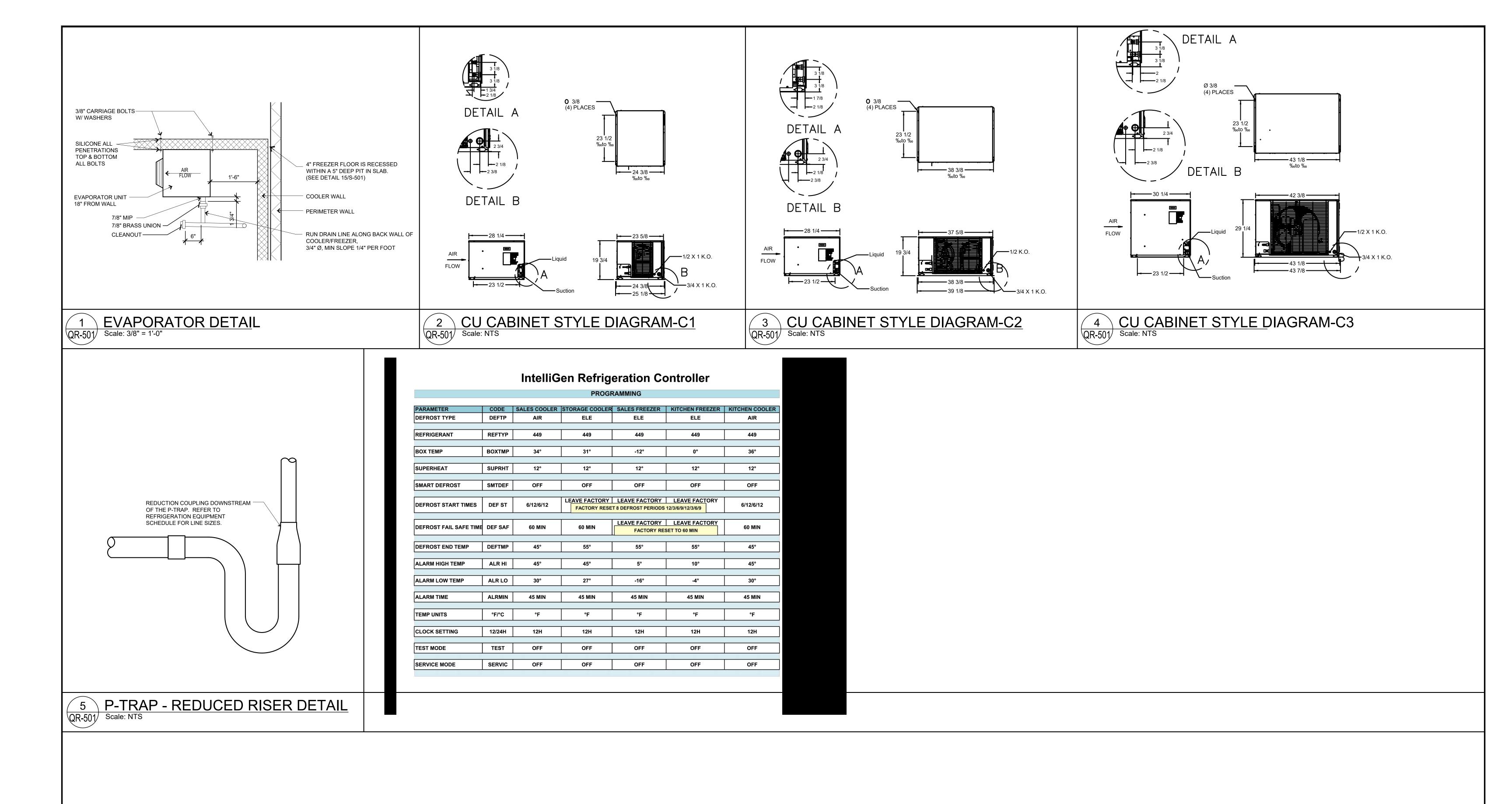
2 END ELEVATION KITCHEN & FREEZER
QR-401 Scale: 3/8" = 1'-0"



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

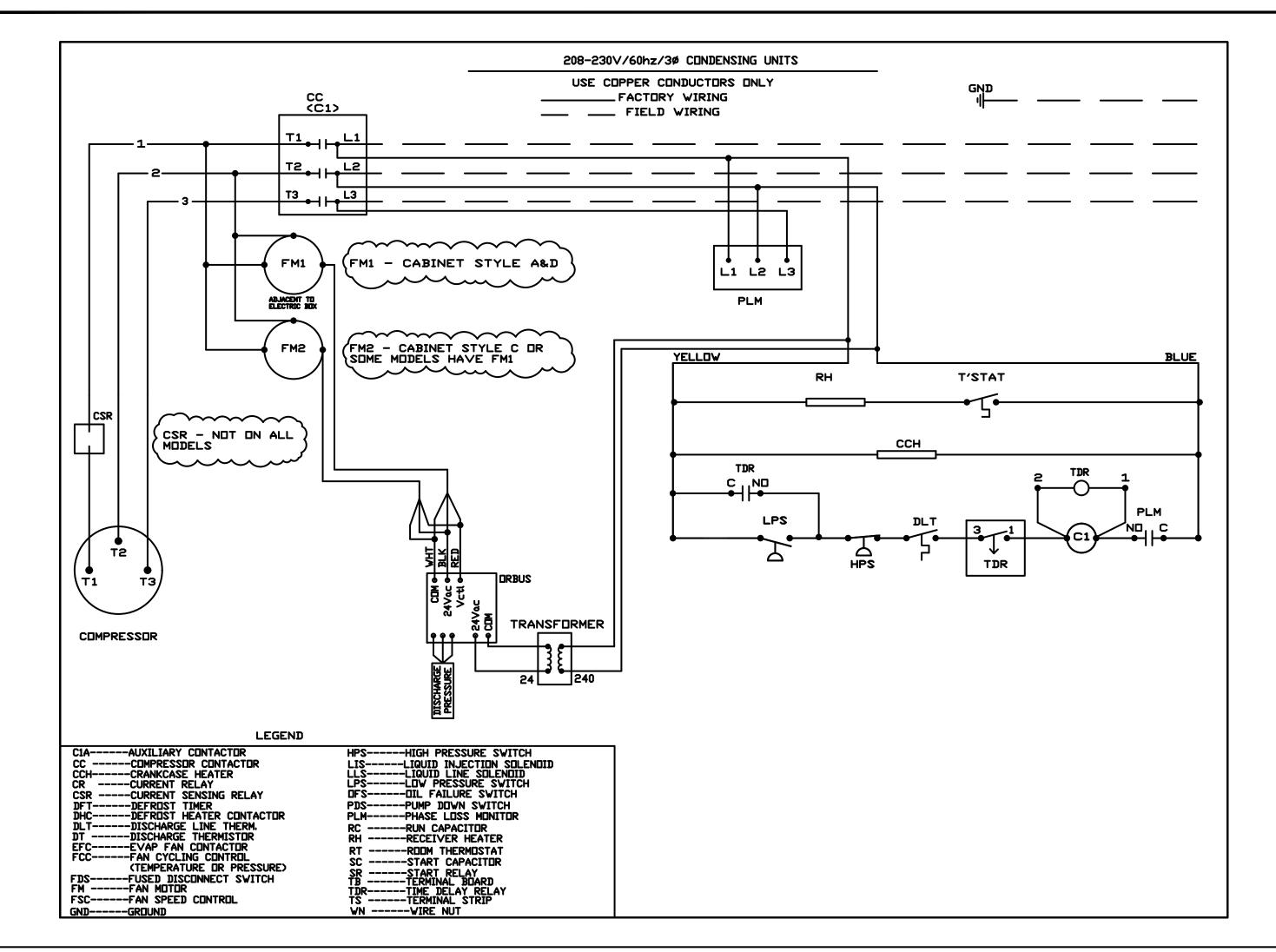
DRAWINGS & INFORMATION ON THIS SHEET ARE PROVIDED FOR INFORMATION ONLY AND HAVE NOT BEEN DESIGNED BY OR REVIEWED BY THE SCHEMMER ASSOCIATES.

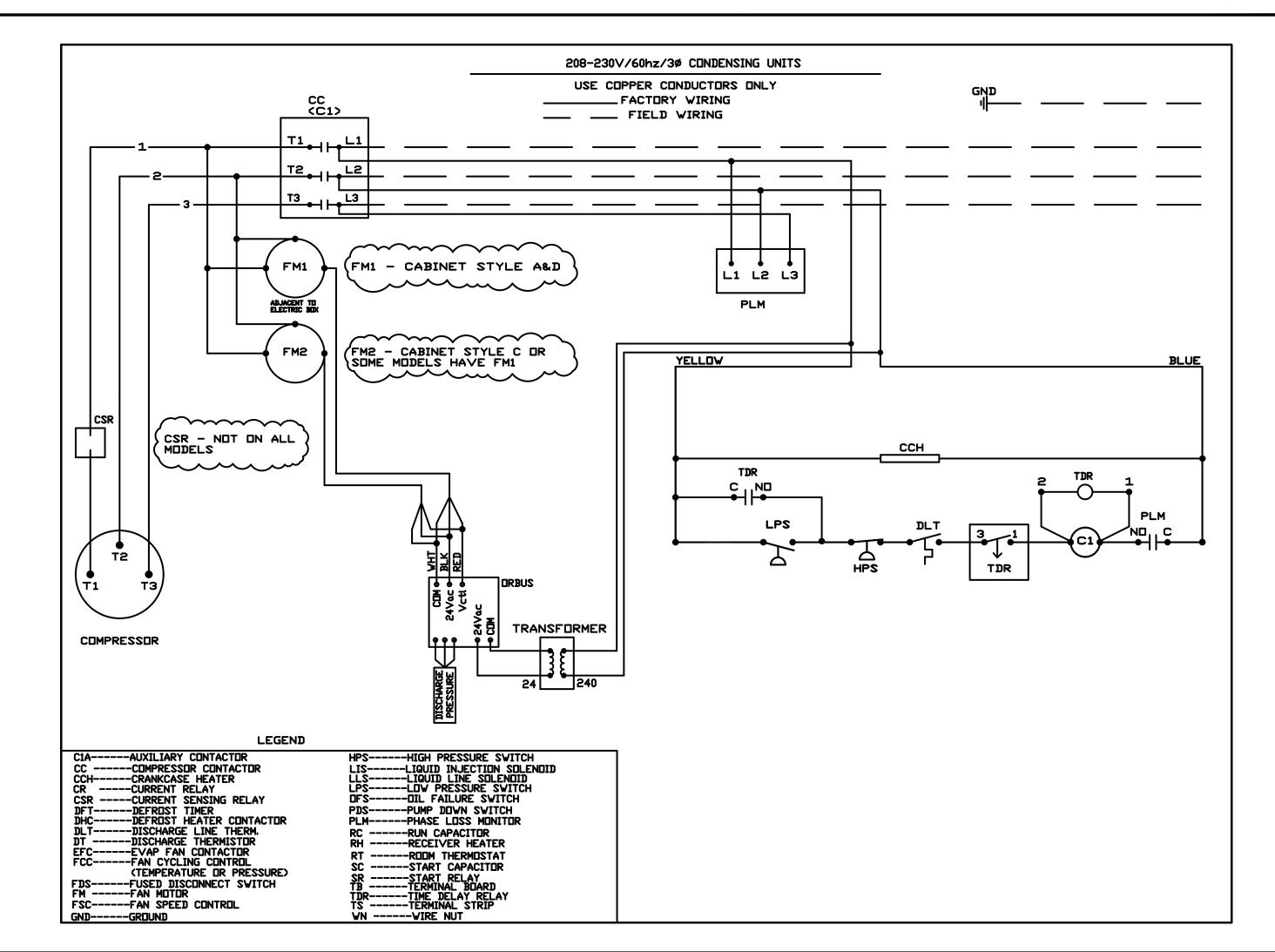
Caseys Cas	sey's	Casey's
CASEY'S CONST One Convenience Blvd., P.O. Box 3		_
2021 "O6"- STYLE STORE (FLAT / BRICK & STONE)	PUBLISHED: 06/18/21 REVISED ON:	REFRIGERATION WALK-INS INTERIOR ELEVATIONS
DRAWING INFORMATION: CONSTRUCTION DIVISION DRAWN BY: JIM VII MAIN		QR-401



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 CONSTR nience Blvd., P.O. Box 30		
2021 "O6"- ST (FLAT / BRIC	_	PUBLISHED: 06/18/21 REVISED ON:	REFRIGERATION DETAILS AND SCHEDULES
DRAWING INFORMATION: CONSTRUCTION DIVIS DRAWN BY: JIM VILMAIN	CHECKED BY:		QR-501



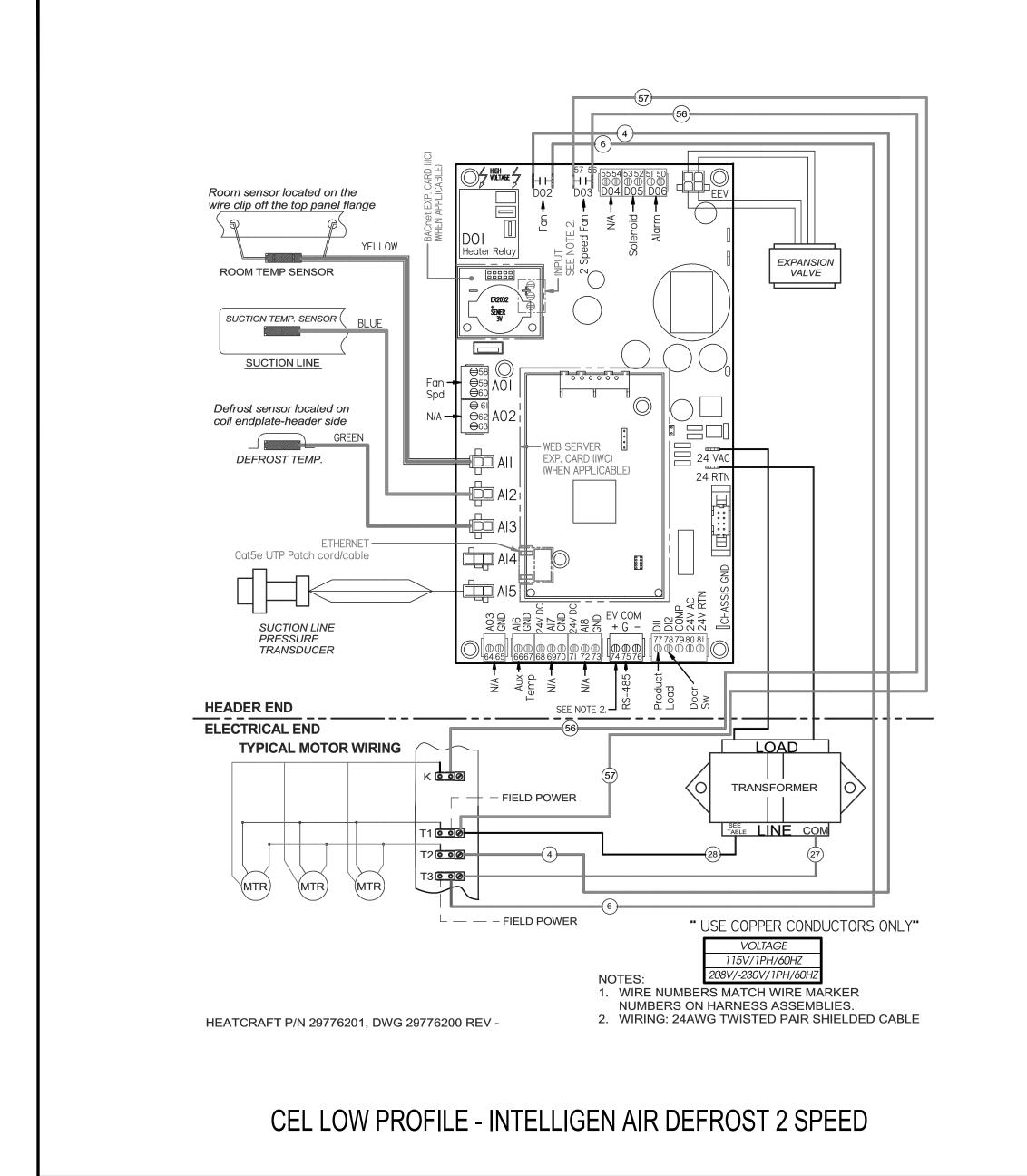


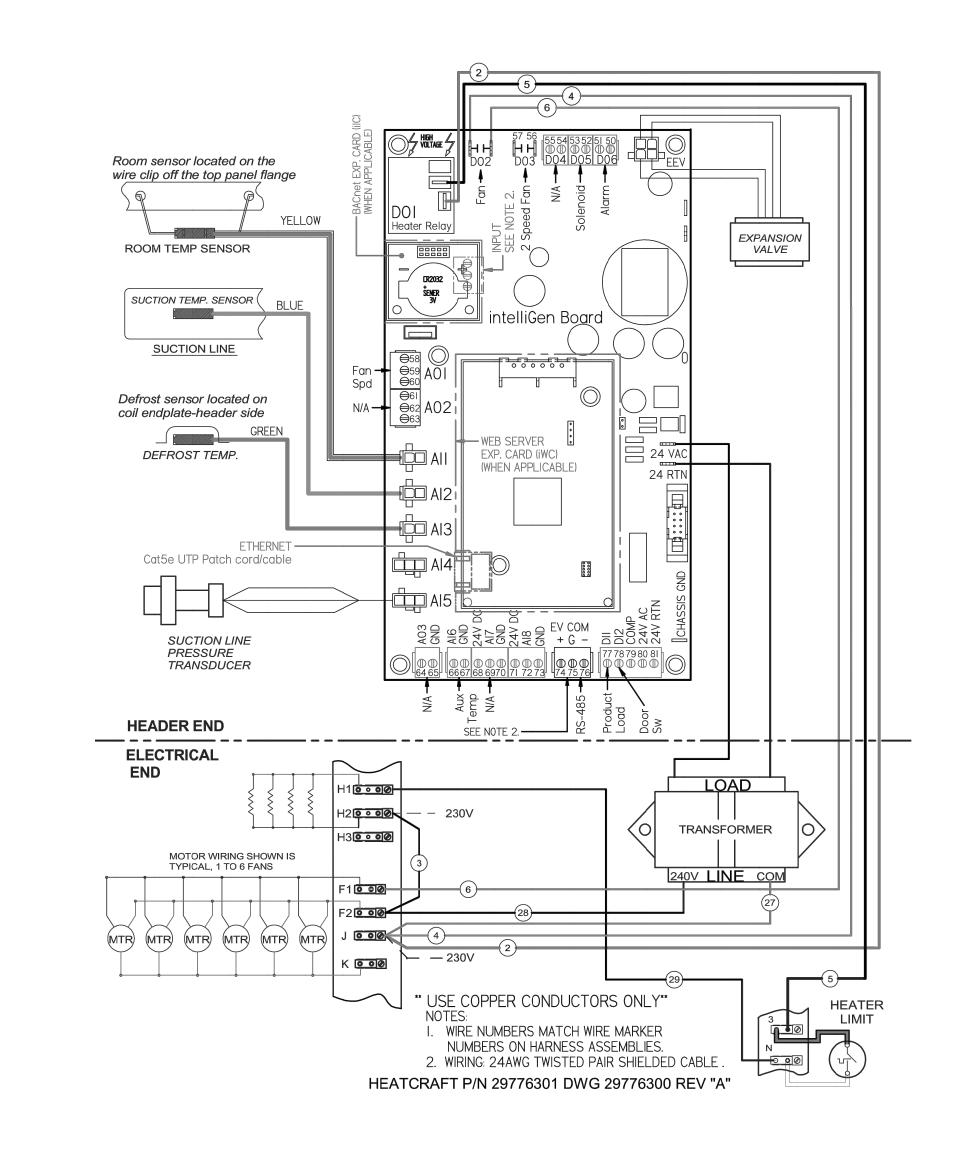
1 CU WIRING DIAGRAM - HEATCRAFT - LOW AMBIENT
OR-601/ Scale: NTS

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

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Casey	er Ca	sey's	Caseys
One Co	CASEY'S CONS		_
	STYLE STORE RICK & STONE)	PUBLISHED: 06/18/21 REVISED ON:	REFRIGERATION WIRING SCHEMATIC
DRAWING INFORMATION: CONSTRUCTION D DRAWN BY:	DIVISION CHECKED BY:		QR-601



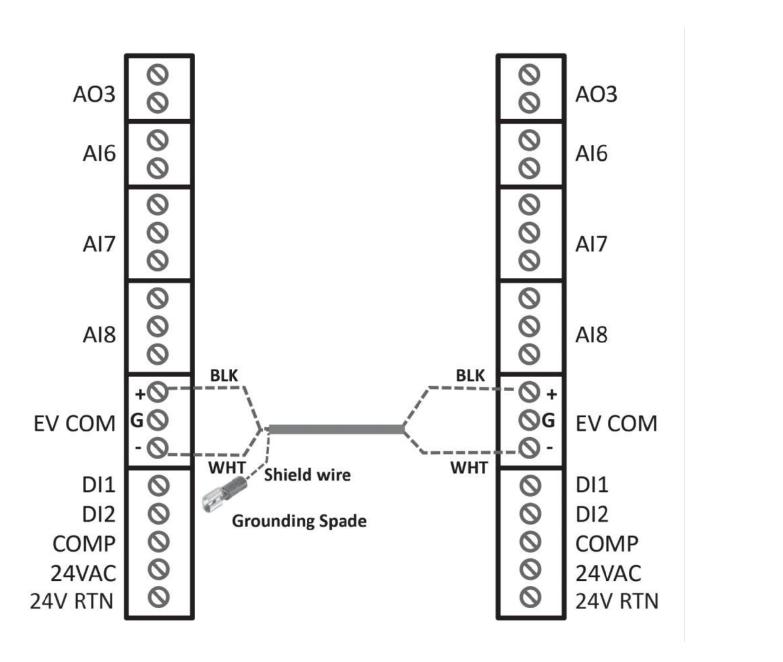


- WEB SERVER DEFROST TEMP. EXP. CARD (iWC) (WHEN APPLICABLE) Cat5e UTP Patch cord/cable SUCTION LINE PRESSURE TRANSDUCER **HEADER END ELECTRICAL END** LOAD TRANSFORMER H3**000** MOTOR WIRING SHOWN IS 240V LINE COM K 000-USE COPPER CONDUCTORS ONLY** **HEATER** LIMIT NUMBERS ON HARNESS ASSEMBLIES. WIRING: 24AWG TWISTED PAIR SHIELDED CABLE HEATCRAFT P/N 29776401 DWG 29776400 REV "A"

CEL LOW PROFILE - INTELLIGEN AIR DEFROST 1 SPEED

CEL LOW PROFILE - INTELLIGEN ELECTRIC DEFROST 2 SPEED

1 SALES COOLER & KITCHEN COOLER QR-602 Scale: NTS



- N 1

2 STORAGE COOLER
QR-602 Scale: NTS

3 SALES FREEZER & KITCHEN FREEZER
QR-602 Scale: NTS

Room sensor located on the

ROOM TEMP SENSOR

SUCTION TEMP. SENSOR (

SUCTION LINE

Defrost sensor located on

coil endplate-header side

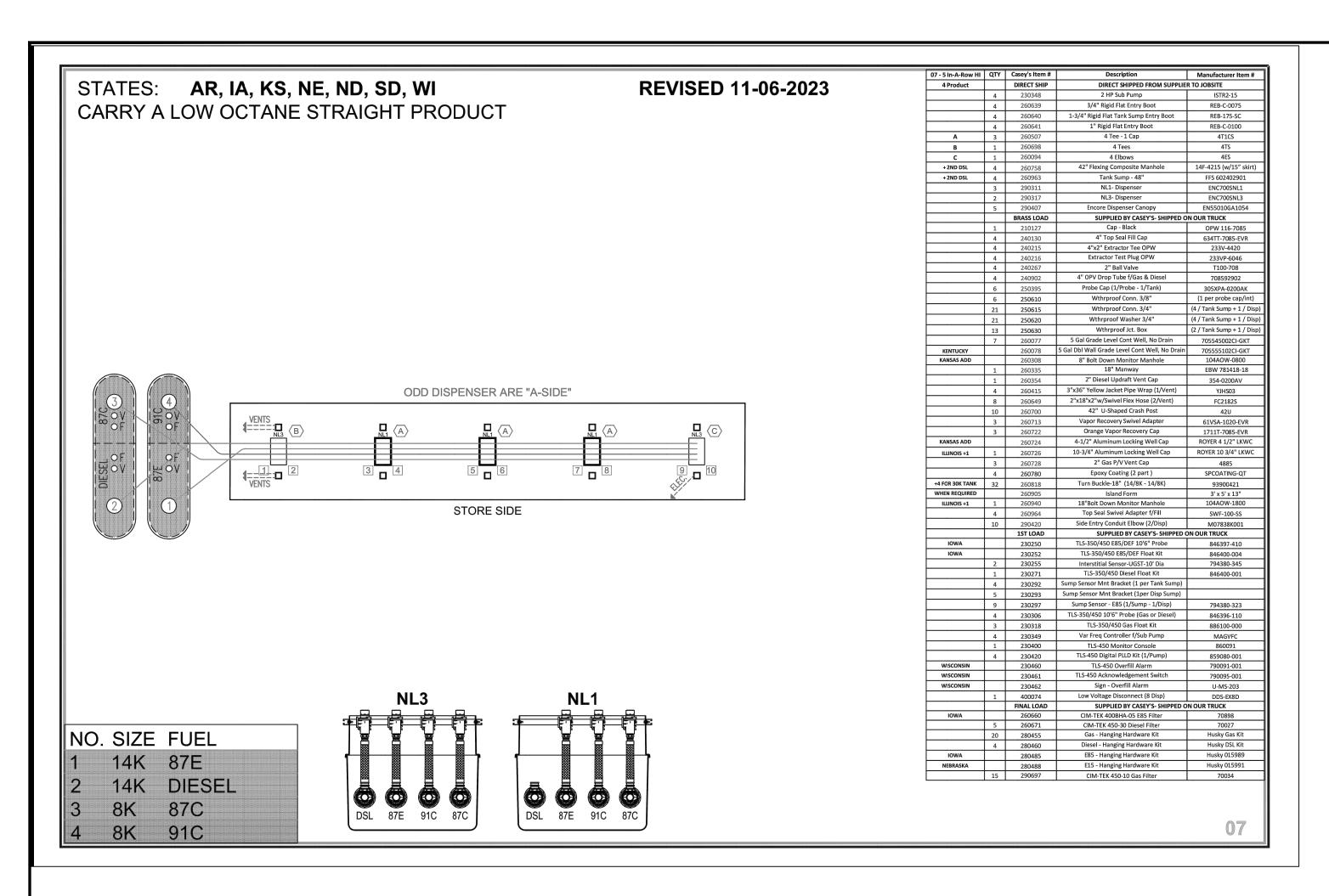
wire clip off the top panel flange

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

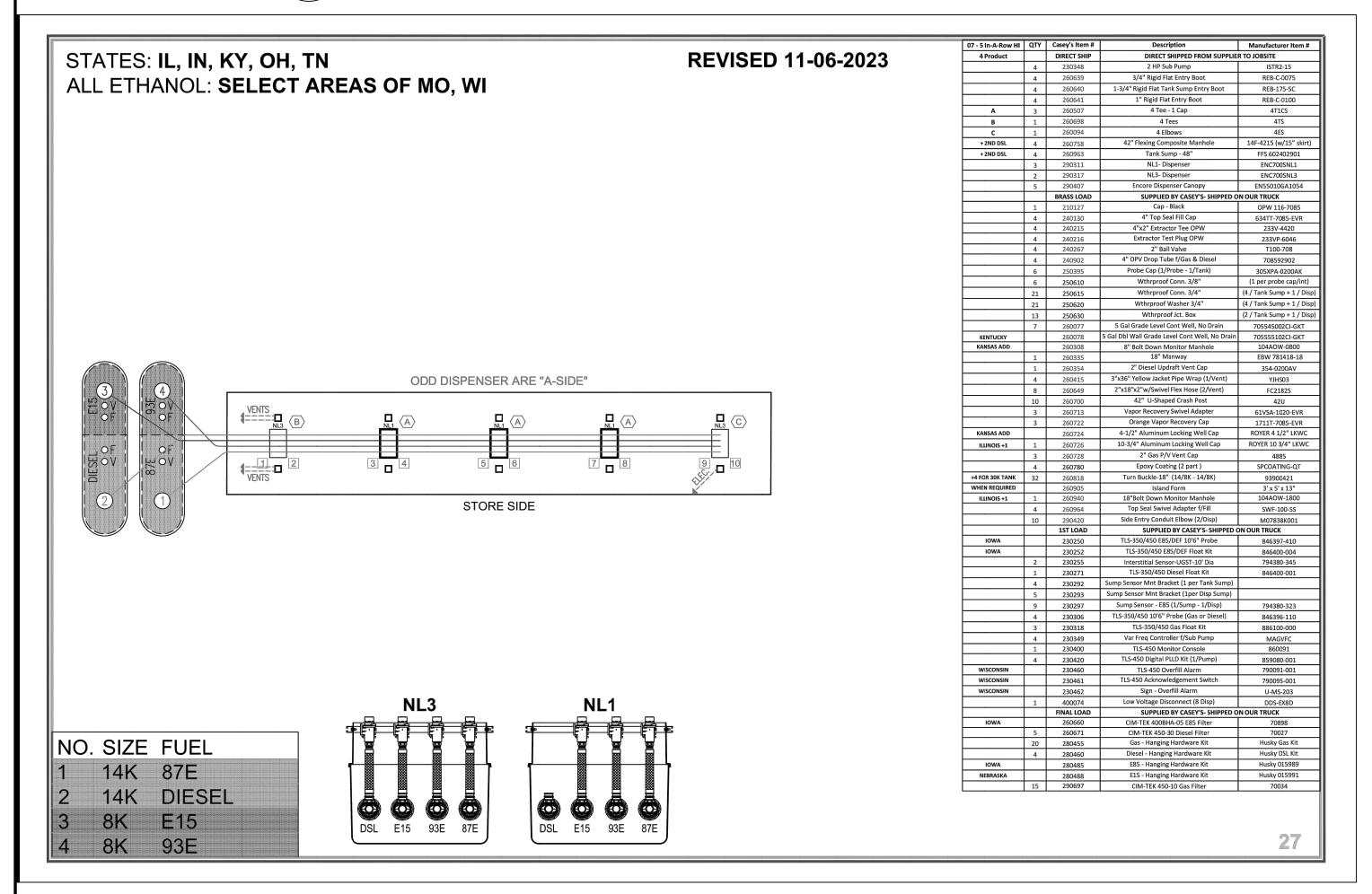
EXPANSION VALVE

Caseys	Cas	seys	Casey's
One Conv	CASEY'S CONST		_
	STYLE STORE CK & STONE)	PUBLISHED: 06/18/21 REVISED ON:	REFRIGERATION WIRING SCHEMATIC
VING INFORMATION: ONSTRUCTION DIV VIN BY: M VILMAIN	/ISION CHECKED BY:		QR-602

4 TWO EVAPORATORS ON A SINGLE SYSTEM
QR-602 Scale: NTS



Fuel Piping Layout Plan (Low States)



Equipment Note

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

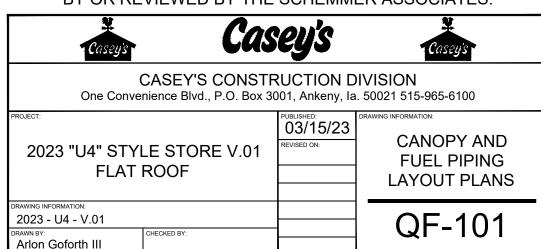
#240902 DROP TUBE ALT #240410 OPW 71SO-410CT

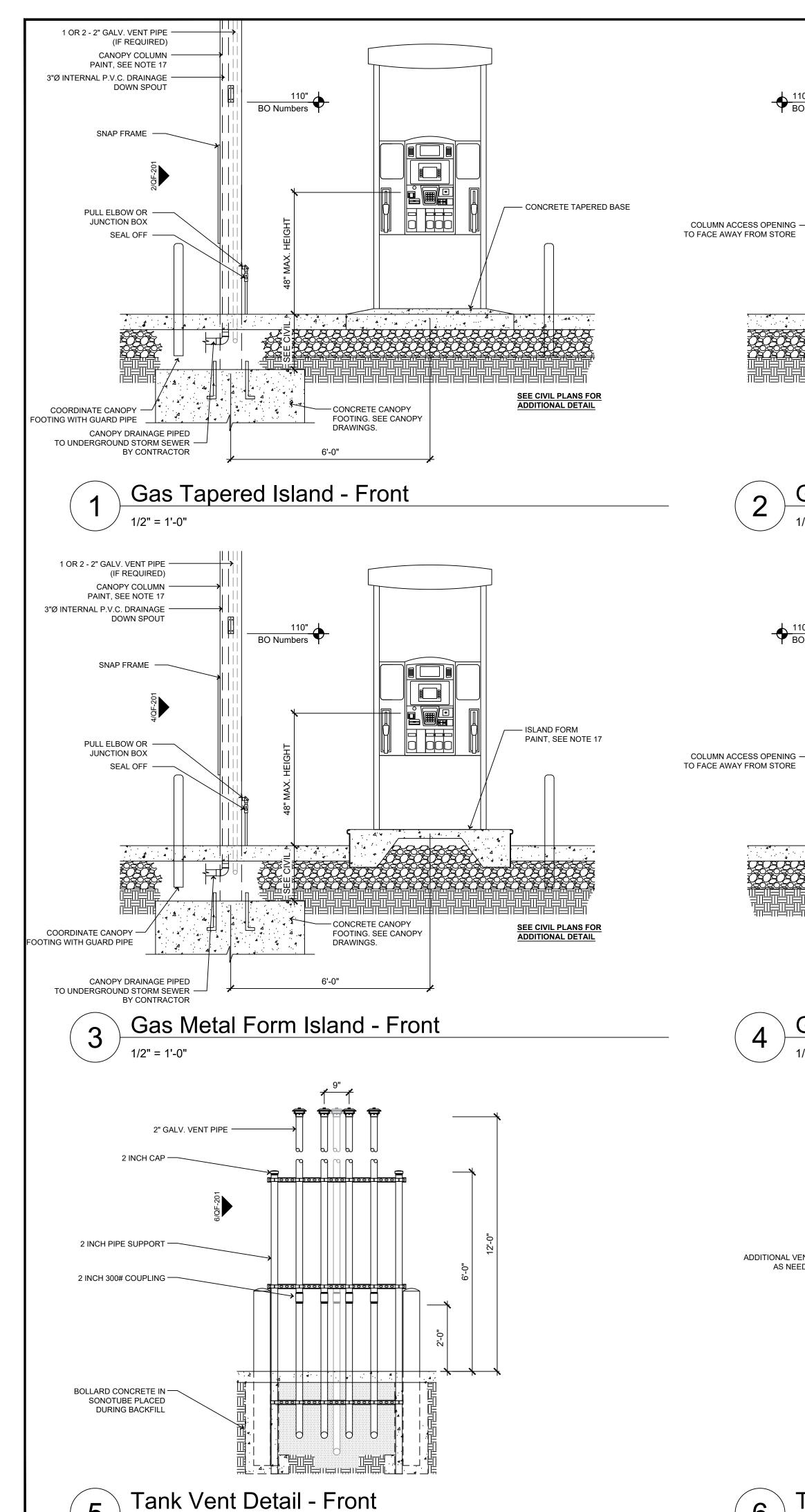
#24092 DROP TUBE ALT #240412 OPW 71SOM-412CT-E85

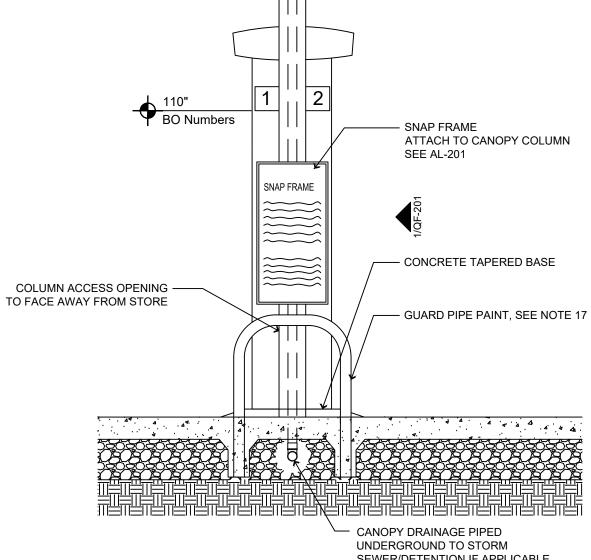
#260075 SPILL BUCKET ALT #260882 OPW 1C3101D

General Notes

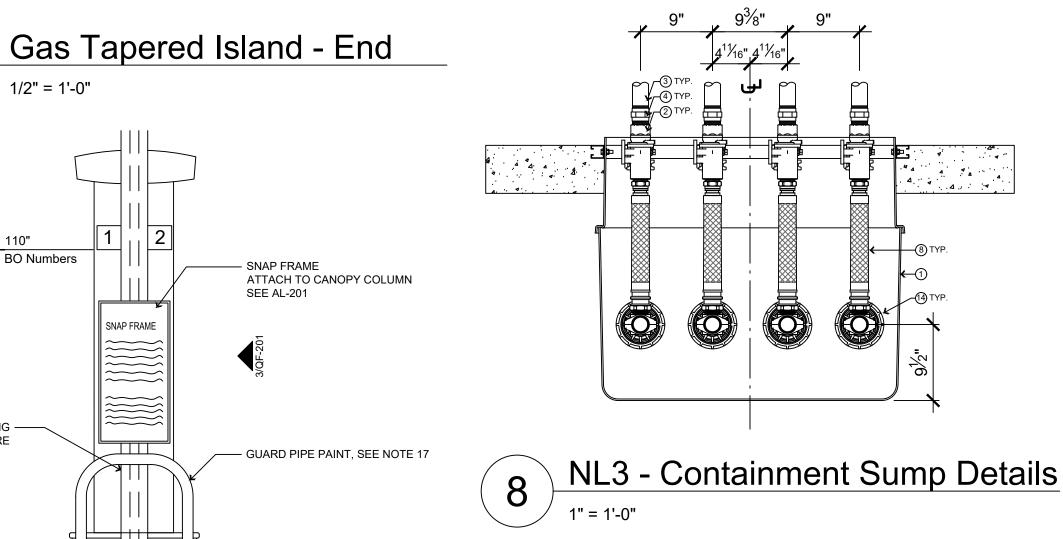
- 1. REFER TO ALL DETAIL PAGES REFERENCED ON THIS PLAN
- 2. FOR RELATED INFORMATION SEE THE FOLLOWING SHEETS: C-SHEETS FOR SITE CIVIL INFORMATION AL-SHEETS SITE LAYOUT AND LOCATION OF DISPENSERS / TANKS
- 3. THIS PLAN LAYOUT PROVIDES GENERAL REFERENCE AND RELATIONAL INFORMATION PERTAINING TO THE FUEL 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.







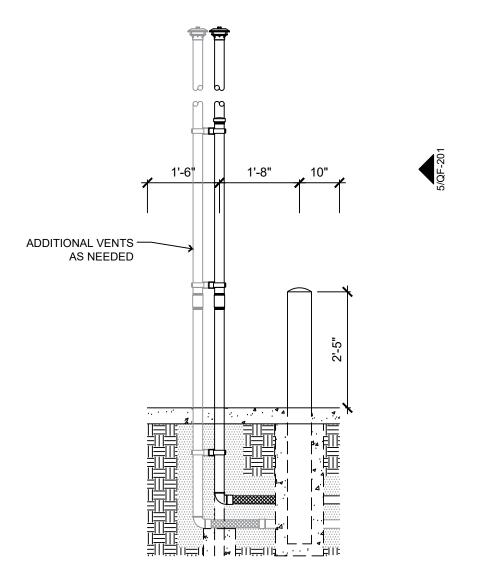
NL1 - Containment Sump Details



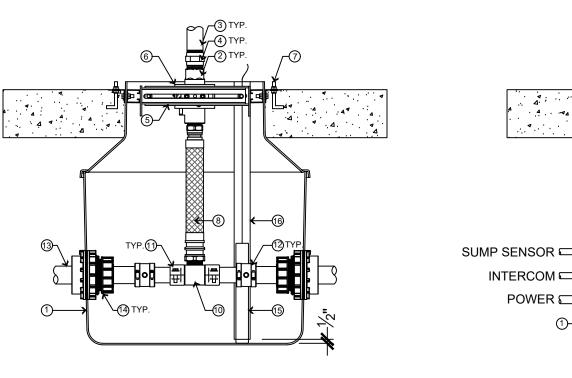
Gas Metal Form Island - End

UNDERGROUND TO STORM

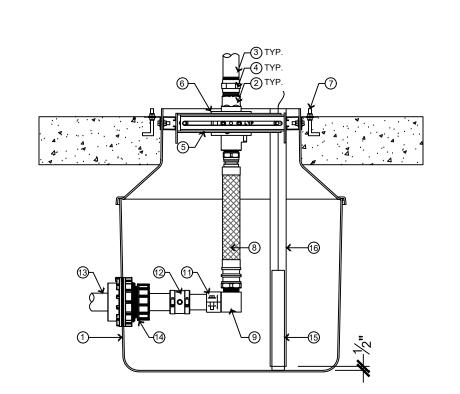
SEWER/DETENTION IF APPLICABLE











Side View (End)

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 FOR SITE LAYOUT AND LOCATION OF DISPENSERS / TANKS
- 3. CONTRACTOR IS TO REFER TO THE ARNING CANOPY PLANS FOR MORE INFORMATION.
- 4. VERIFY QUANTITY OF ITEMS PER SITE
- 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.
- 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

SUMPS, ETC.) UNDERGROUND.

- Y3 13 32NDS
- W1 24 32NDS G2 1 32ND

ABOVE BOTTOM OF SUMP.

- 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

(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 (16) 2" FIBERGLASS PIPE

(19) 3/4" RIGID CONDUIT

(18) 1" SEAL-OFF

(20) 3/4" SEAL-OFF

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
- (6) MOUNTING PLATE (17) 1" RIGID CONDUIT (7) DISPENSER ANCHOR BOLT
- (8) FLEX CONNECTOR
- (9) 2" S/S 90° ELBOW (10) 2" S/S TEE
 - (21) 3/4" EXPLOSION PROOF JUNCTION BOX

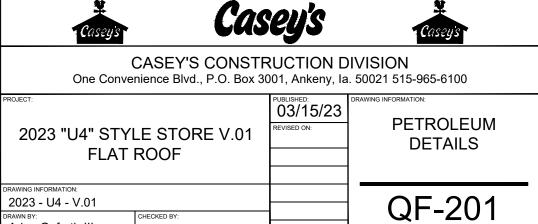
Sump Notes

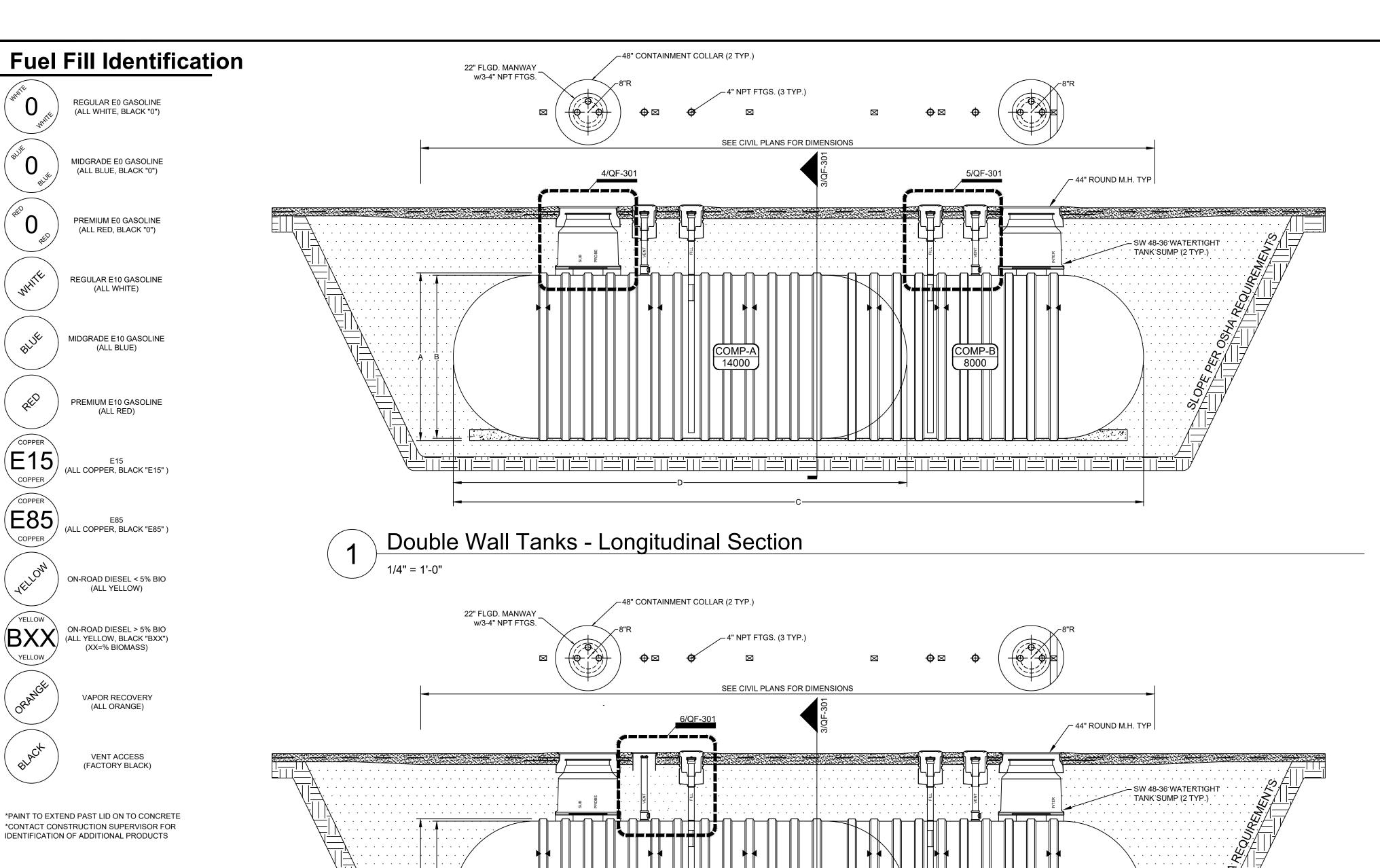
PROGRAMMING.

- 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

Sump Electrical Detail

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Double Wall Tanks - Longitudinal Section

SEE CIVIL PLANS FOR

CONCRETE THICKNESS

AND REINFORCING

CONSTRUCTION TUBE (CONSTRUCTION USE ONLY)

TOP CAP 10 3/4" ALUM. LOCKING CAP.

FIBERGLASS HOLD DOWN STRAPS FOR UNDERGROUND

FIBERGLASS STORAGE TANKS. OWNER SUPPLIES

REQUIRED TURNBUCKLES AND TANK ANCHORS.

Double Wall Tanks - Cross Section

1-10" PERFORATED PIPE 16' IN LENGTH PLACED IN DIAGONAL CORNER OF HOLE. W/10" P.V.C. CAP IN BOTTOM OF TUBE.

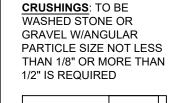
1/4" = 1'-0"

General Notes

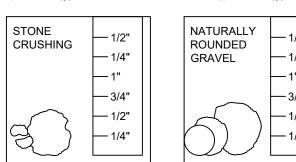
- 1. REFER TO ALL DETAIL PAGES REFERENCED ON THIS PLAN
- 2. FOR RELATED INFO. SEE THE FOLLOWING SHEETS: C-SHEETS FOR SITE CIVIL INFORMATION AL-SHEETS FOR SITE LAYOUT AND LOCATION OF DISPENSERS / TANKS
- 3. REQUIRED ISOPROPYLENE TO BE USED FOR REMOVAL OF WATER AFTER TANK INSTALL 4. PETROLEUM CONTRACTOR TO SUPPLY ALL APT,
- FIBERGLASS, BLACK, GALVANIZED AND STAINLESS STEEL PIPING AND FITTINGS 5. FIBERGLASS VENT PIPING TO HAVE FLEX
- CONNECTORS AT EACH END, TO BE WRAPPED W/ FRANKLIN YELLOW JACKETS
- 6. SUMP SENSORS AND INTERSTITIAL SENSORS REQUIRED
- Y. HYDROSTATIC TESTING IS REQUIRED ON ALL CONTAINMENT SUMPS
- 8. CONTRACTOR SHALL COMPLY WITH APPLICABLE
- OSHA REGULATIONS 9. ALL ELECTRICAL CONNECTIONS AND COMPONENTS ARE TO BE CLASS 1-DIVISION 1,
- MANUFACTURER SPECIFICATIONS 10. TANK TAGS ARE TO PROVIDE: TANK SIZE, PRODUCT & OCTANE

WATER-TIGHT, AND FOLLOWING ALL

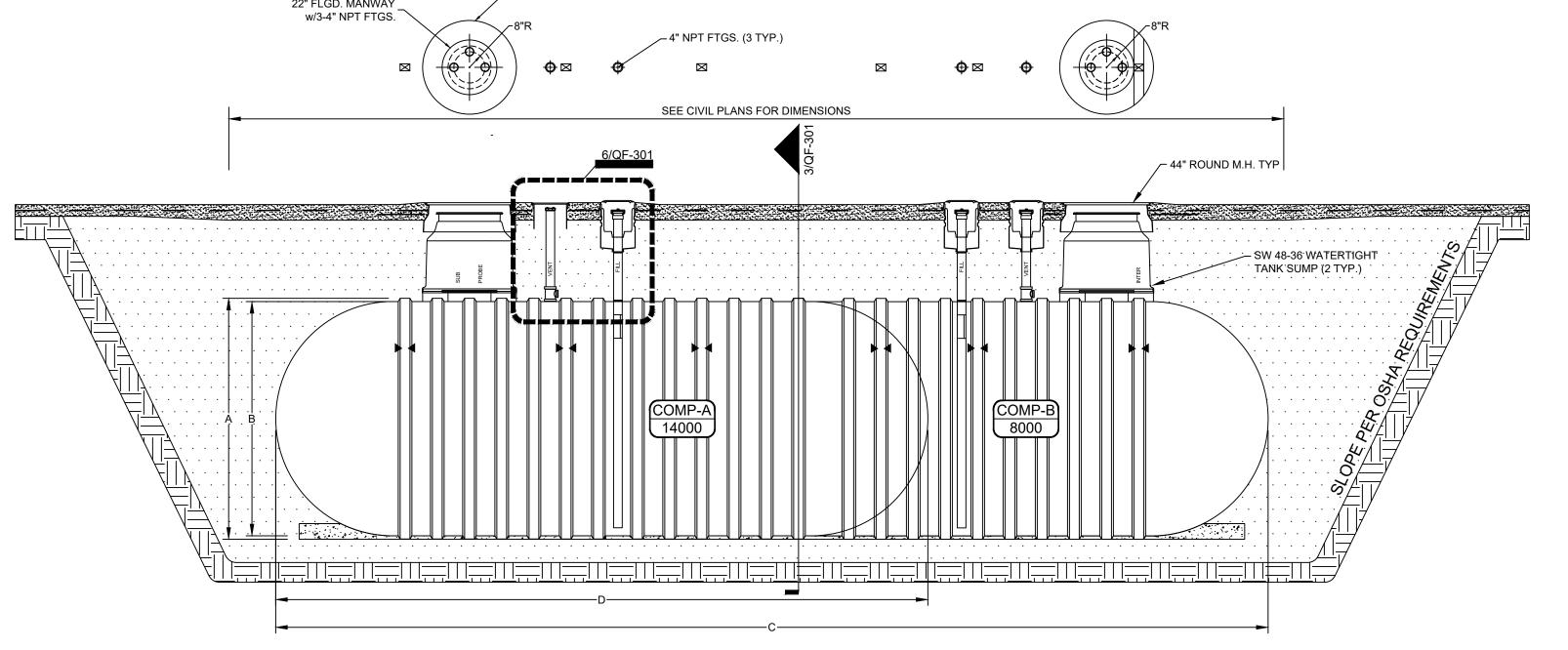
Soil & Fill Material



GRAVEL: A CLEAN NATURALLY ROUNDED AGGREGATE W/ A MIX OF PARTICLE SIZES NOT LESS THAN 1/8" OR MORE THAN 3/4" IS REQUIRED



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.



DOUBLE-WALL

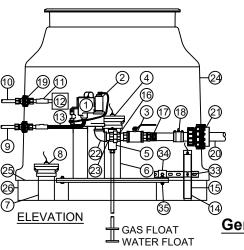
FIBERGLASS TANK

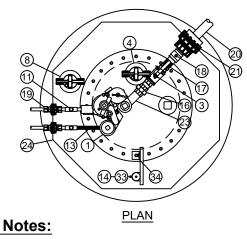
DOUBLE-WALL

FIBERGLASS TANK

8" PVC CAP-

· 3'-0" ·



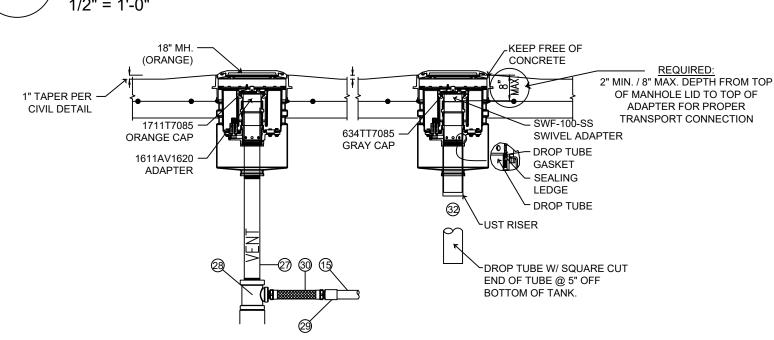


1 MIN. 18" ADDITIONAL WIRE COILED & ROLLED IN JUNCTION BOX DO NOT CUT PROBE WIRE MARK EACH END FROM EACH TANK

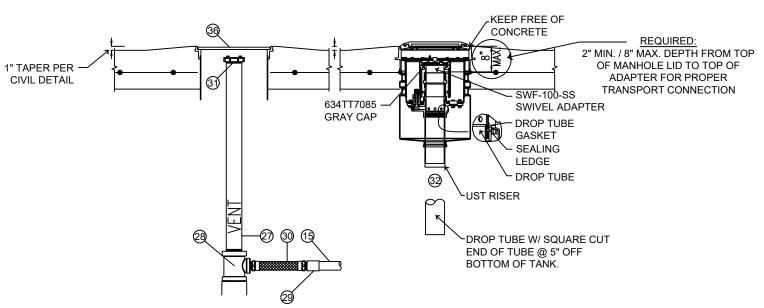
2 SUMP SENSOR TO BE MOUNTED AT LOWEST AREA OF SUMP

Petroleum UGST Detail

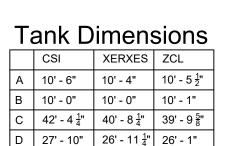
Tank Dimensions CSI XERXES ZCL A 10' - 6" 10' - 4" 10' - 5½" B 10'-0" 10'-0" 10'-1" C $42' - 4\frac{1}{4}''$ $40' - 8\frac{1}{4}''$ $39' - 9\frac{5}{8}''$ D 27' - 10" 26' - 11 ¹/₄" 26' - 1"

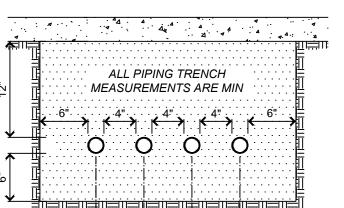


Gasoline Fill Containment Detail



Diesel Fill Containment Detail





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

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

18" LOCKING MANHOLE COVER (NO CROWN)

~ 10 3/4" ALUM. LOCKING CAP

(13) 3/4" EXPLOSION PROOF FLEX ECF 224 (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 (35) 1/2" X 3" BOLT W/FENDER WASHER (24) 48" TURBINE ENCLOSURE (36) 18" MANWAY

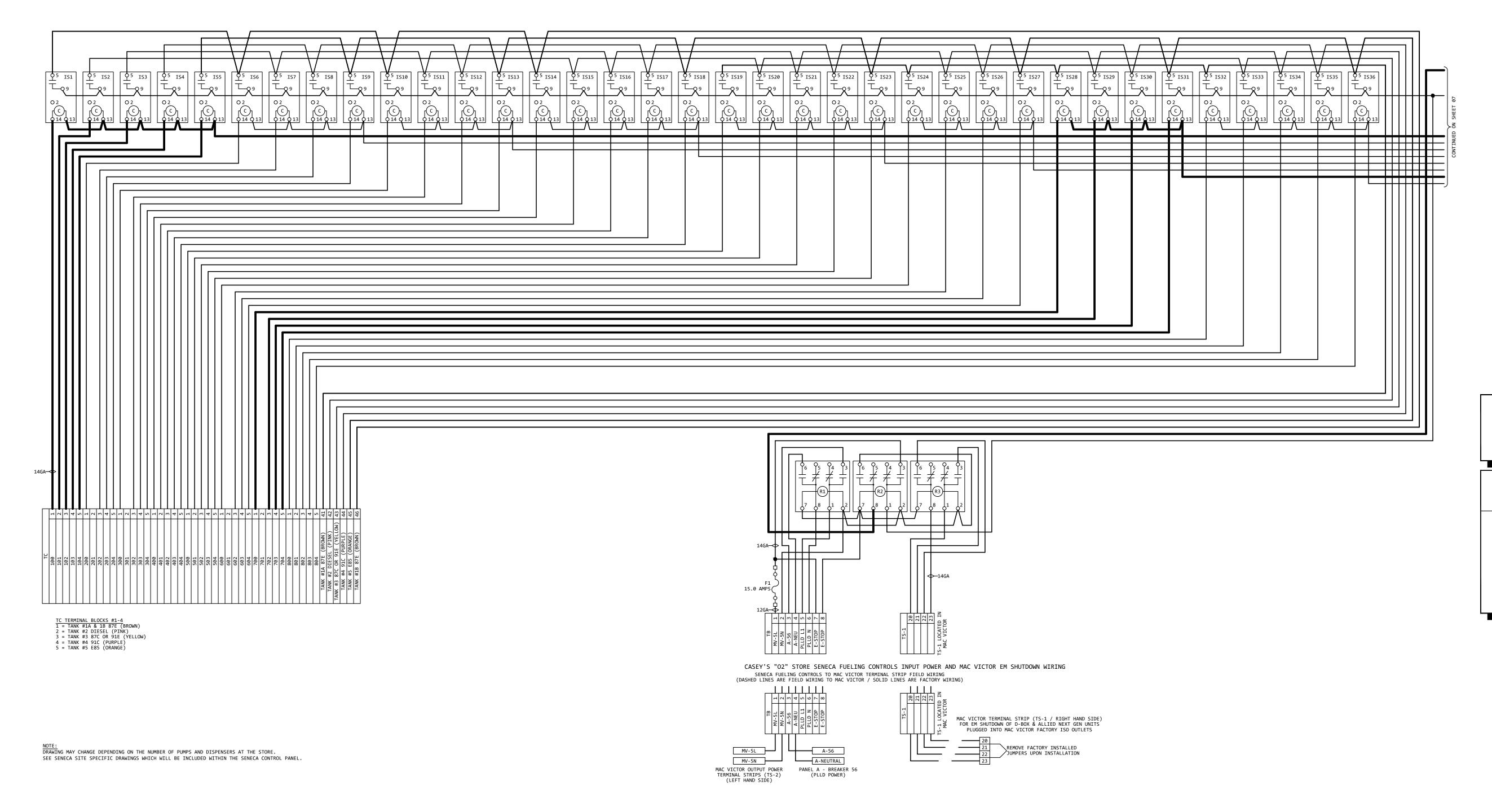
(25) FIELD BONDED JOINT (26) 48" COLLAR MANUFACTURER INSTALLED (27) 4" x 32" VENT RISER (28) 4" X 2" VENT EXTRACTOR TEE (29) 2" NPT BELL FEMALE (30) 2" x 18" FLEX (31) OPW 116 CAP - BLACK (32) EBW DEFENDER OPV & DROP TUBE 33) 2" STRUT PIPE CLAMP (34) 2 HOLE STRUT 90 BRACKET

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CASEY'S C One Convenience Blvd., P.	ONSTRUCTION E .O. Box 3001, Ankeny, la	_
2021 "O6"- STYLE STOF (FLAT / BRICK & STON		PETROLEUM TANK SECTIONS & DETAILS
DRAWING INFORMATION:		

CONSTRUCTION DIVISION

QF-301



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.

<u>Mac Victor Power</u> - 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.

General Notes

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- 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

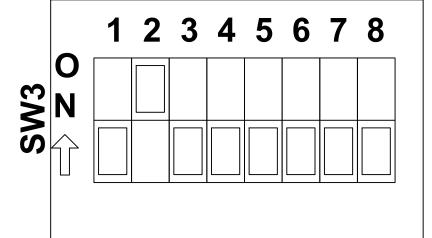
USE STRANDED WIRE AND COLORS AS SHOWN ONLY!!

WARNING!

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- 2 USE ONLY FACTORY SUPPLIED KNOCK OUTS ON VEEDER-ROOT MONITOR **DO NOT " FIELD DRILL "**

Mag VFC

JIM VILMAIN



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

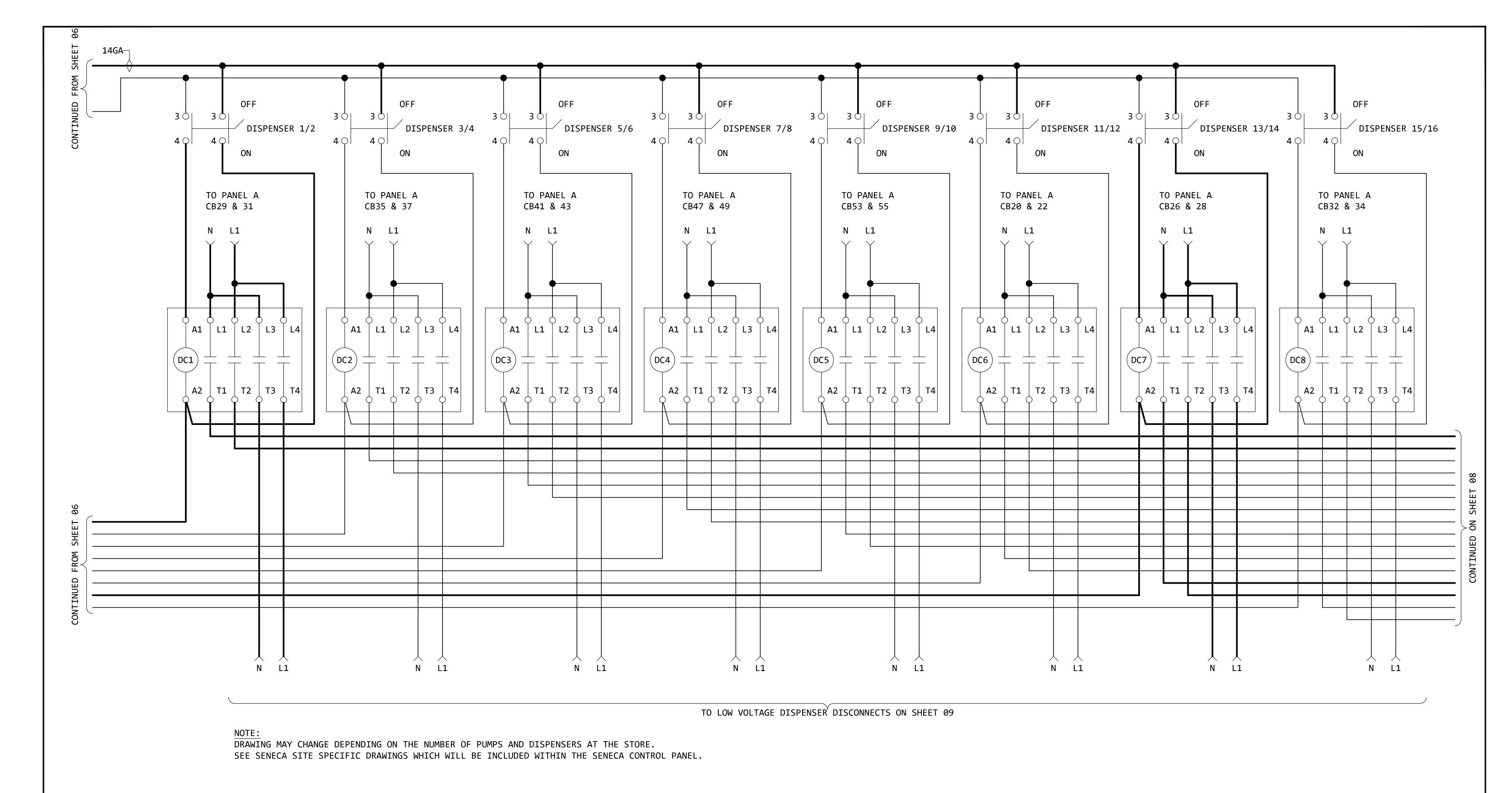
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Casey's	Casey's	Caseys
	ED BY THE SCHEMMER	_

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

No Scale

Fueling Controls overview and Emergency Shutdown sequence of operation

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USE STRANDED WIRE AND COLORS AS SHOWN ONLY !!

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FAILURE DURING INSTALLATION AND SERVICE
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	CASEY'S CONSTRUCTION DIV

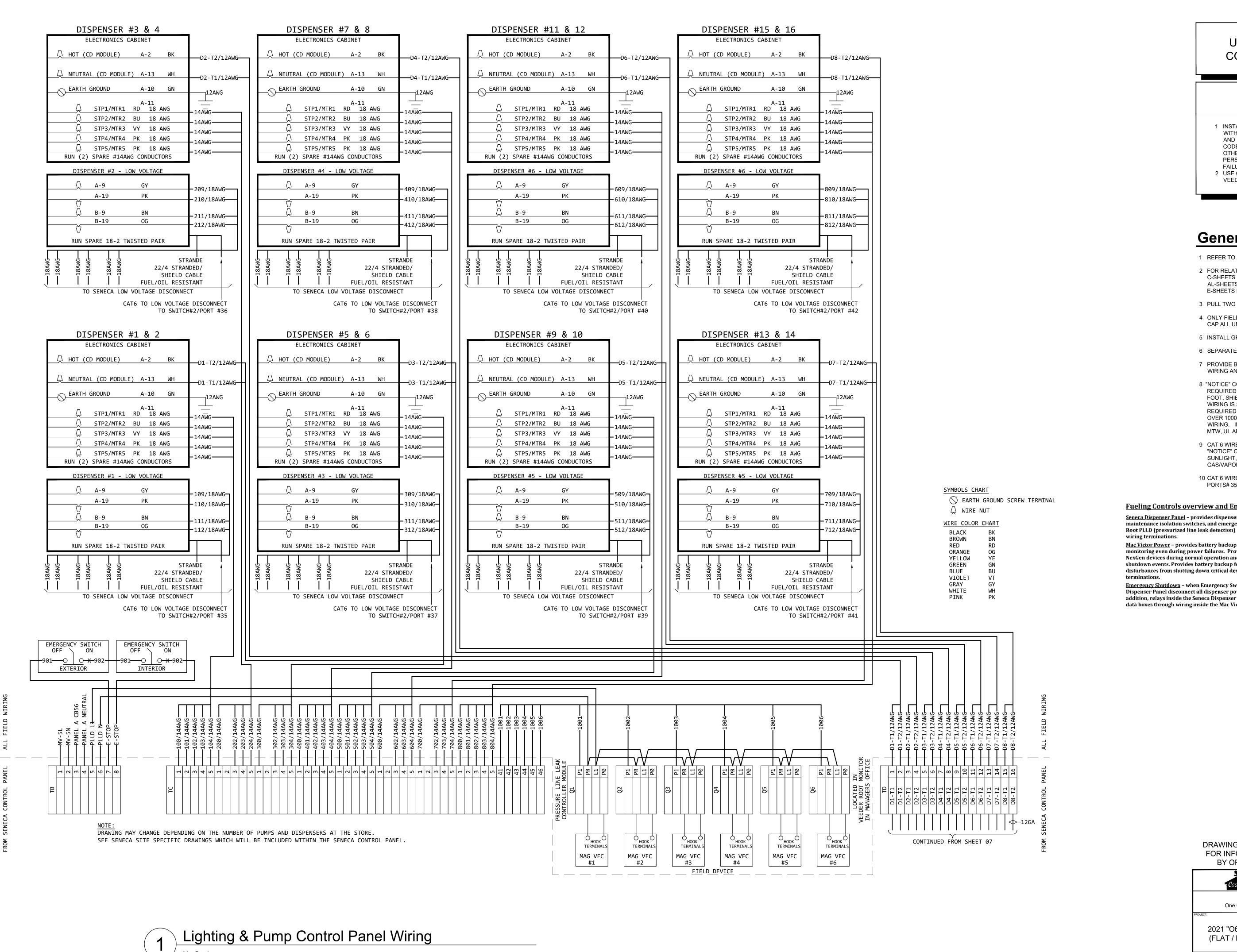
Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100			
	PUBLISHED:	DRAWING INFORMATION:	
6"- STYLE STORE	06/18/21 REVISED ON:	PETROLEUM	
BRICK & STONE)		SYSTEM WIRING	
DINION & STONE)		DIAGRAM	

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

AWING INFORMATION:
CONSTRUCTION DIVISION
AWN BY:
DIM VILMAIN

REVISED ON:
PETROLEUM SYSTEM WIRING DIAGRAM

OF -602



USE STRANDED WIRE AND COLORS AS SHOWN ONLY!

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- 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

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

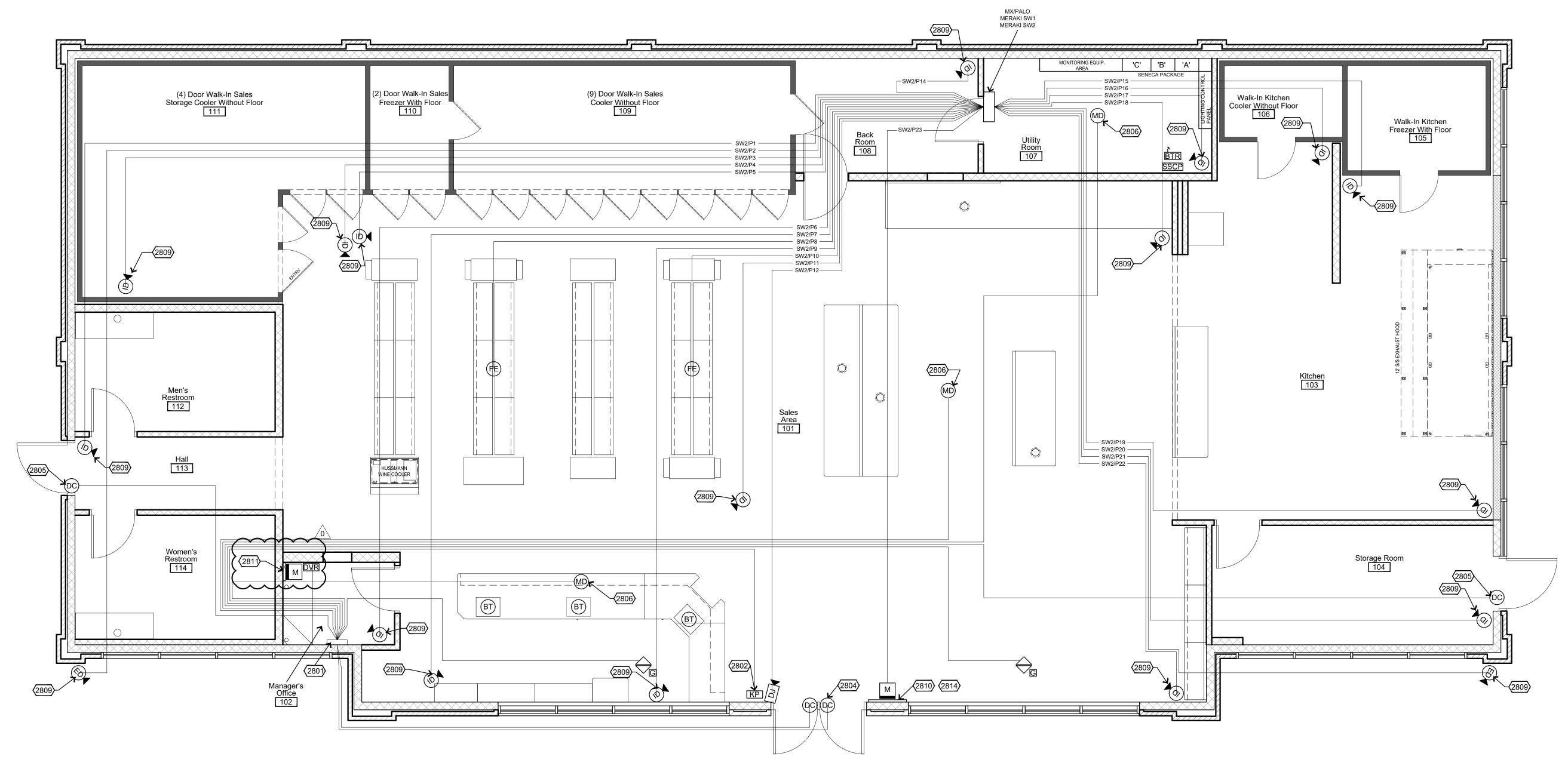
2021 "O6"- STYLE STORE (FLAT / BRICK & STONE) PETROLEUM SYSTEM WIRING DIAGRAM

DRAWING INFORMATION:

CONSTRUCTION DIVISION

DRAWN BY:

CHECKED BY:



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
- DOOR CONTACTS 22/4 AWG STRANDED AND SHIELDED

MOTION DETECTOR - 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 #:

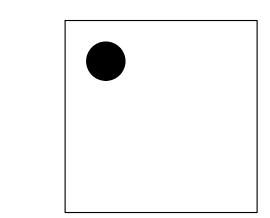
ZONE #1 BILL TRAP 8+9 ZONE #2 GLASS BREAK SENSORS 10+11 ZONE #3 FRONT DOOR (ENTRANCE) 12+13 ZONE #4 BACK DOOR (EXIT) 13+14 ZONE #5 MOTION 15+16 ZONE #6 16+17 BACKROOM MOTION ZONE #7 SIDE DOOR (EXIT) 18+19 ZONE #8 SPARE ZONE 19+20 (OPEN-NOT BEING USED)

Keyed Construction Notes

Division 28 - Electronic Safety and Security

- (2801) BOSCH B4512 PANEL : MOUNT IN OFFICE @ 76" AFF ABOVE CEILING
- TYP. 6128 KEYPAD INSIDE OF BLDG. @56" HEIGHT AND 10" FROM ROUGH (2811) CAMERA SYSTEM LOCATED IN MANAGER OFFICE DVR, 16 CHANNEL OPENING OF DOOR
- (2803) TYP. ASC25 GLASS BREAK SENSOR, MOUNT TO TILE. 4 WIRE, USE RED, GREEN, BLACK & WHITE
- 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 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.)

- 2810 32" SECURITY MONITOR 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
- OPTIONAL DIESEL CAMERA. VERIFY DIESEL OPTION WITH AL-101 SITE

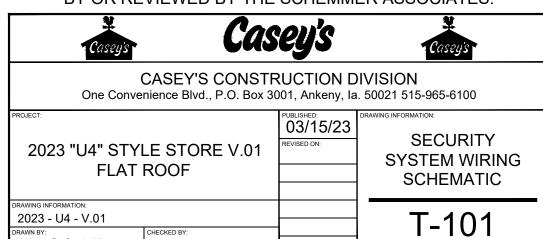


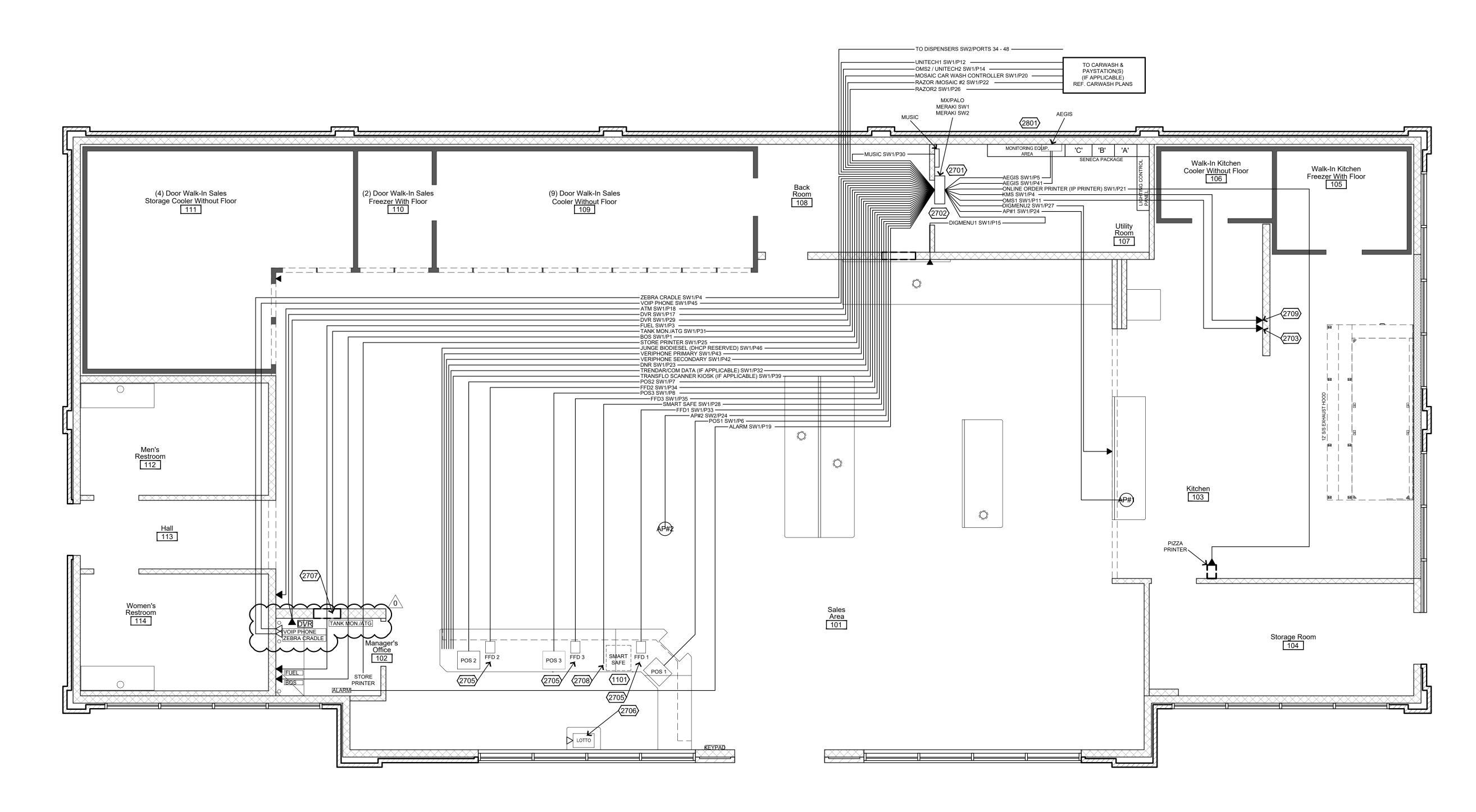
PLACE ALL CAMERAS IN CORNERS OF CEILING TILE, NOT IN THE CENTER

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.

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Wiring Schematice Plan - Phone/Data

Keyed Construction Notes

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

OF PHONE LINE PER STORE:

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

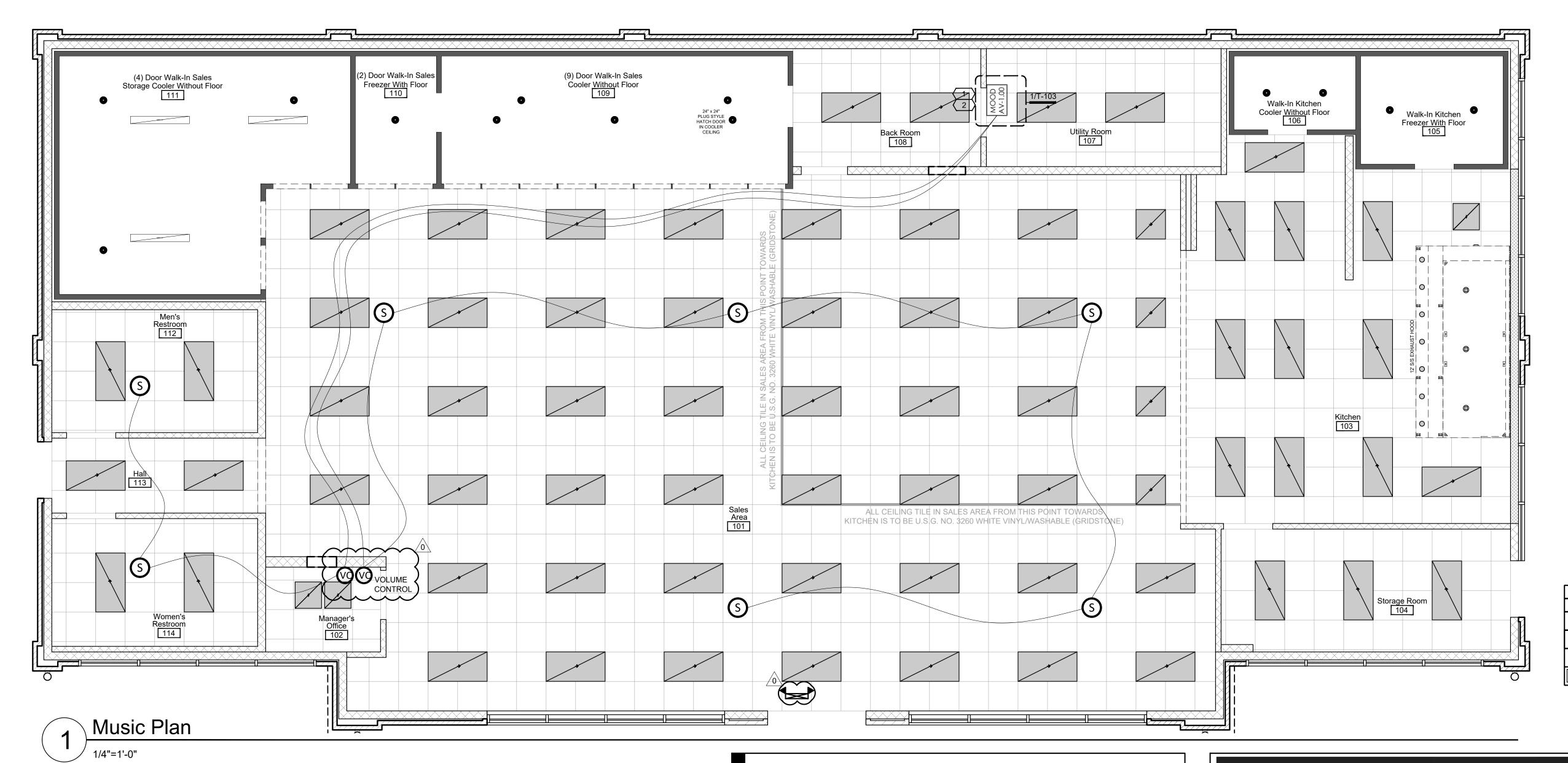
PHONE 1 PHONE BASE - MANAGER'S OFFICE

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)

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	S CONSTRUCTION rd., P.O. Box 3001, Ankeny,	
2023 "U4" STYLE STO FLAT ROOF	PUBLISHED: 03/15/23 REVISED ON:	3 COMMUNICATIONS WIRING SCHEMATIC & DETAILS
2023 - U4 - V.01 AWN BY: CHECKED BY:		T-102



Notes

- (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.
- (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

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

STRING SHALL BE REQUIRED.

AUDIO AND VIDEO EQUIPMENT LEGEND DESCRIPTION NOTES: PROVIDED BY OWNER

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

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"



- ABS baffle Paintable grille
- Easy installation, new and retrofit 70/100 volt transformer

P/N: C10-2917

INTERPRET GEOMETRIC TOLERANCING FEE MATERIAL 16 GA CRS

C10-2917

PROPRIETARY AND CONFIDENTIAL

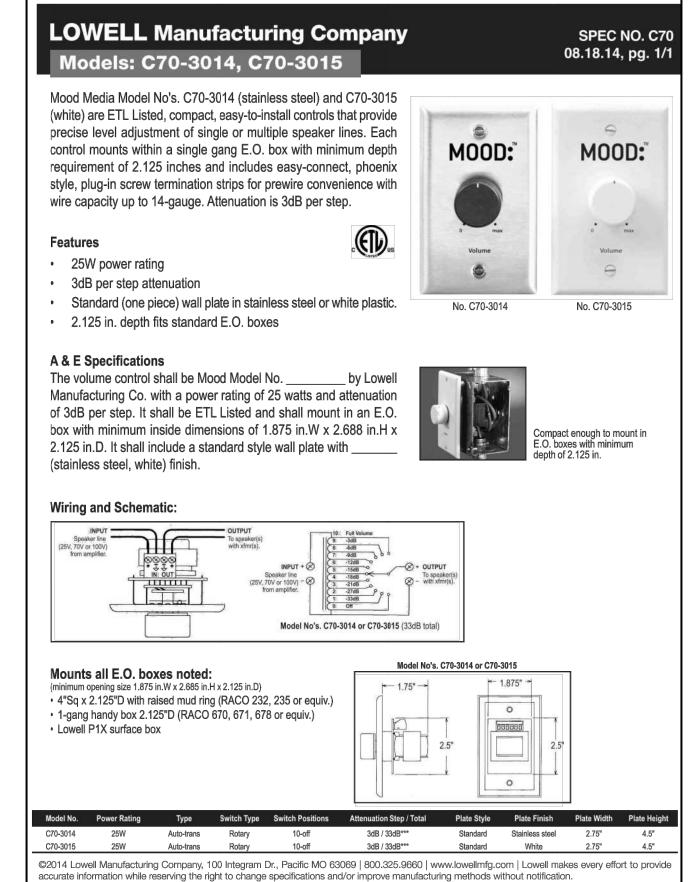
8 Ohms Thru Tile Support Included UL1480 and 2043 listed for following models: XDA521T,



XD6202T/F-6.5" (165mm) XD8201T-SUB -8" polypropylene

and XD6202T		polypropylene cone woofer, 1" silk dome tweeter	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	8 11 in	88 in	13.4 in

Speakers & Sub Woofer Specifications [/] Scale: N/A



Volume Control Specifications

Scale: N/A

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

Casey's	Cas	sey's	Casey's
	CASEY'S CONST		
	LE STORE V.01 ROOF	PUBLISHED: 03/15/23 REVISED ON:	MUSIC PLAN
DRAWING INFORMATION: 2023 - U4 - V.01 DRAWING: O of out the UI	CHECKED BY:		T-103

Arlon Goforth III

2 Shelf Detail ✓ Scale: N/A

0 0 0

DESCRIPTION

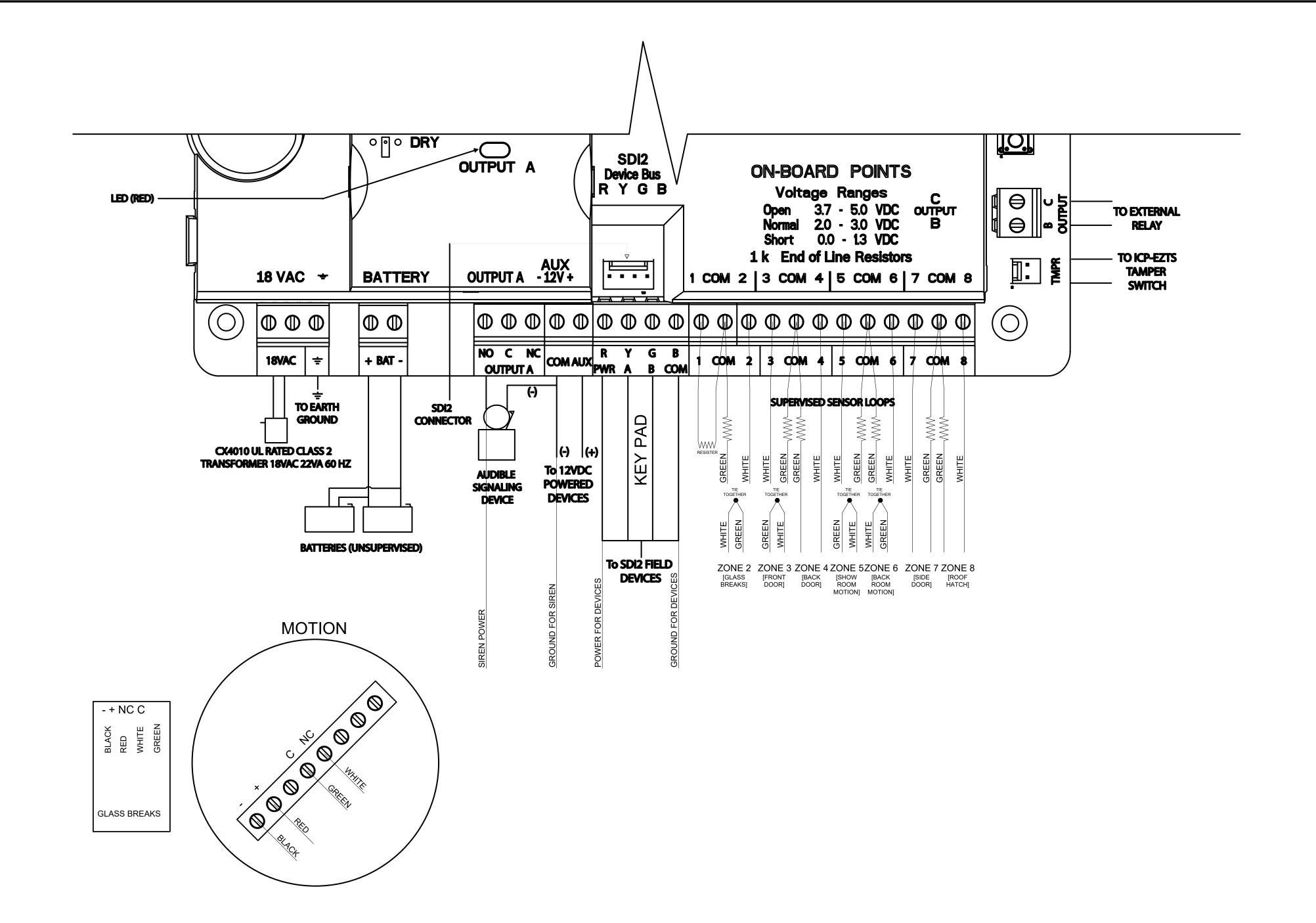
General Construction Notes

- 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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Caseys Cas	sey's	Casey's
CASEY'S CONSTRUCTION DIVISION One Convenience Blvd., P.O. Box 3001, Ankeny, Ia. 50021 515-965-6100		
2023 "U4" STYLE STORE V.01 FLAT ROOF	PUBLISHED: 03/15/23 REVISED ON:	SECURITY WIRING SCHEMATIC & DETAILS
DRAWING INFORMATION: 2023 - U4 - V.01 DRAWN BY: Arlon Goforth III		T-601