

NEW CONSTRUCTION FOR:

PATEL LIQUOR STORE

NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

ARCHITECT:

KEYES ARCHITECTS AND ASSOCIATES
4717 PRESTON HIGHWAY
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ARCHITECT: CHARLES J. KEYES III

GENERAL CONTRACTOR:

BCD INC.
1962 FILIATREAU LN
BARDSTOWN, KY 40004
PH: (502) 348-2305
CONTACT: JASON HARROD
EMAIL: JHARROD@BARDSTOWN.COM



PROJECT INFORMATION

APPLICABLE BUILDING CODES
BUILDING CODE KY BUILDING CODE 2018
ACCESSIBILITY CODE ANSI 117.1
ENERGY CODE ASHRAE 90.1 2010

USE AND OCCUPANCY: MERCANTILE, GROUP - M

CONSTRUCTION TYPE: V-B

BUILDING INFORMATION

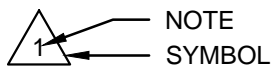
NEW BUILDING SIZE: 4,996 S.F.

FIRE SUPPRESSION: NOT SPRINKLERED

OCCUPANCY ALLOWANCE

FUNCTION OF SPACE	ALLOWANCE	AREA	OCCUPANCY
MERCANTILE	60 GROSS	4996	83
TOTAL OCCUPANCY ALLOWANCE:			83

REVISIONS:



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SP1.02	Specifications

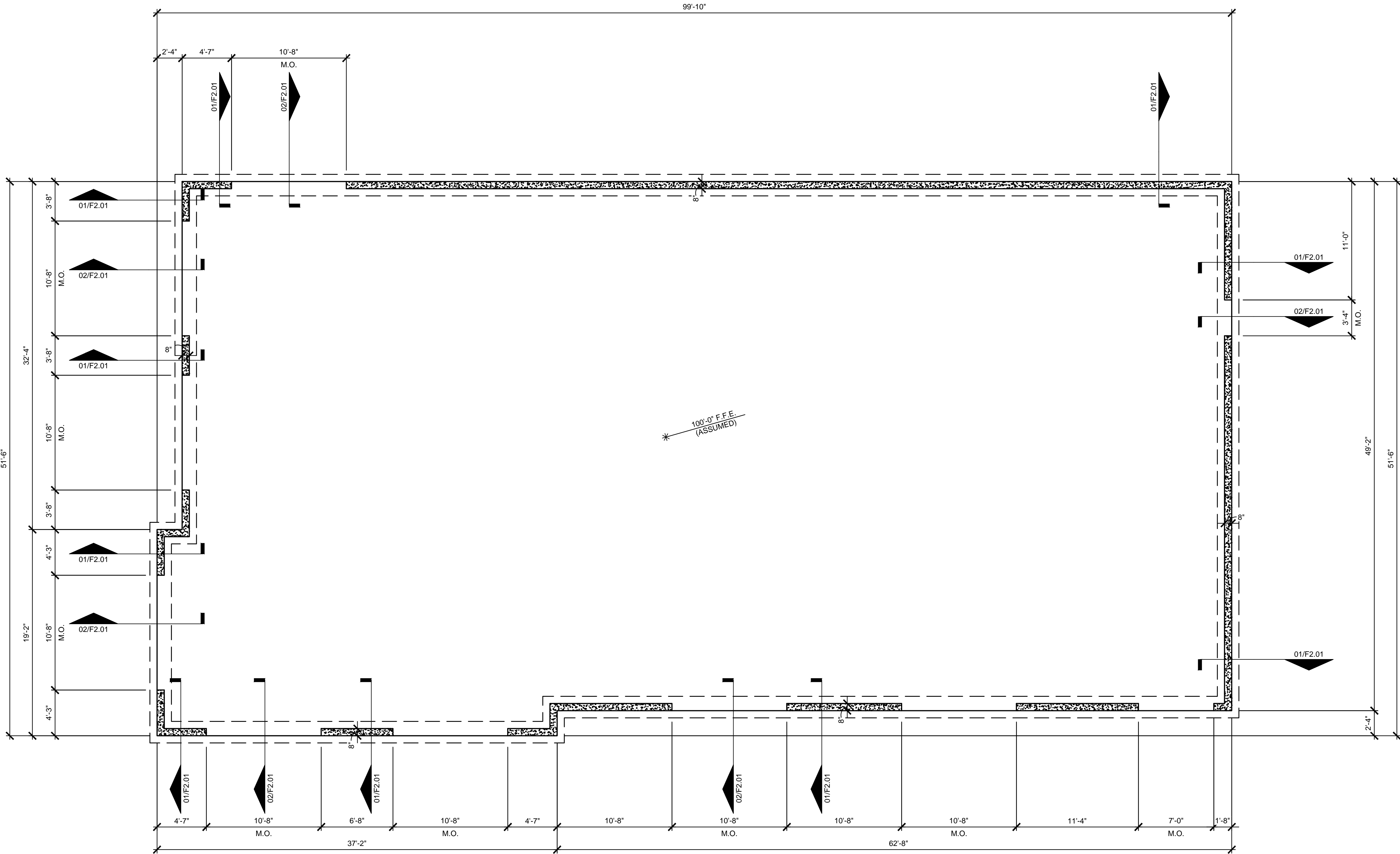
PROJECT: PATEL LIQUOR STORE - FILE: F1.01 Foundation Plan.dwg - DATE: Dec 02, 2021 1:56PM - BY:GARRETT HAMM



01

FOUNDATION PLAN

SCALE: 3/16" = 1'-0"



FOUNDATION NOTES

- 1) ALL CONCRETE TO BE 4,000 P.S.I.
- 2) BUILDING FOUNDATIONS ARE DESIGNED FOR 2,000 P.S.F. SOIL BEARING CAPACITY. VERIFY BEFORE CONSTRUCTION.
- 3) FLOOR SLAB TO BE POURED THRU AT ALL DOORWAYS, SLOPE 2% TO OUTSIDE
- 4) FOOTING TO REST ON UNDISTURBED SOIL.

PROJECT NO:

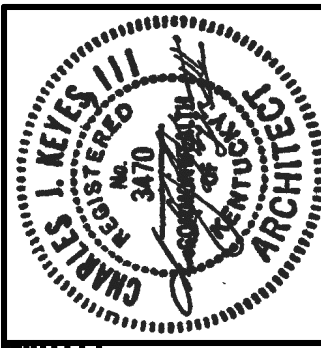
21-4188

DRAWN BY:

GRH/

DATE:

2021-12-02



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NOTE: GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL SUB TRADES AND REQUIREMENTS BY OWNER

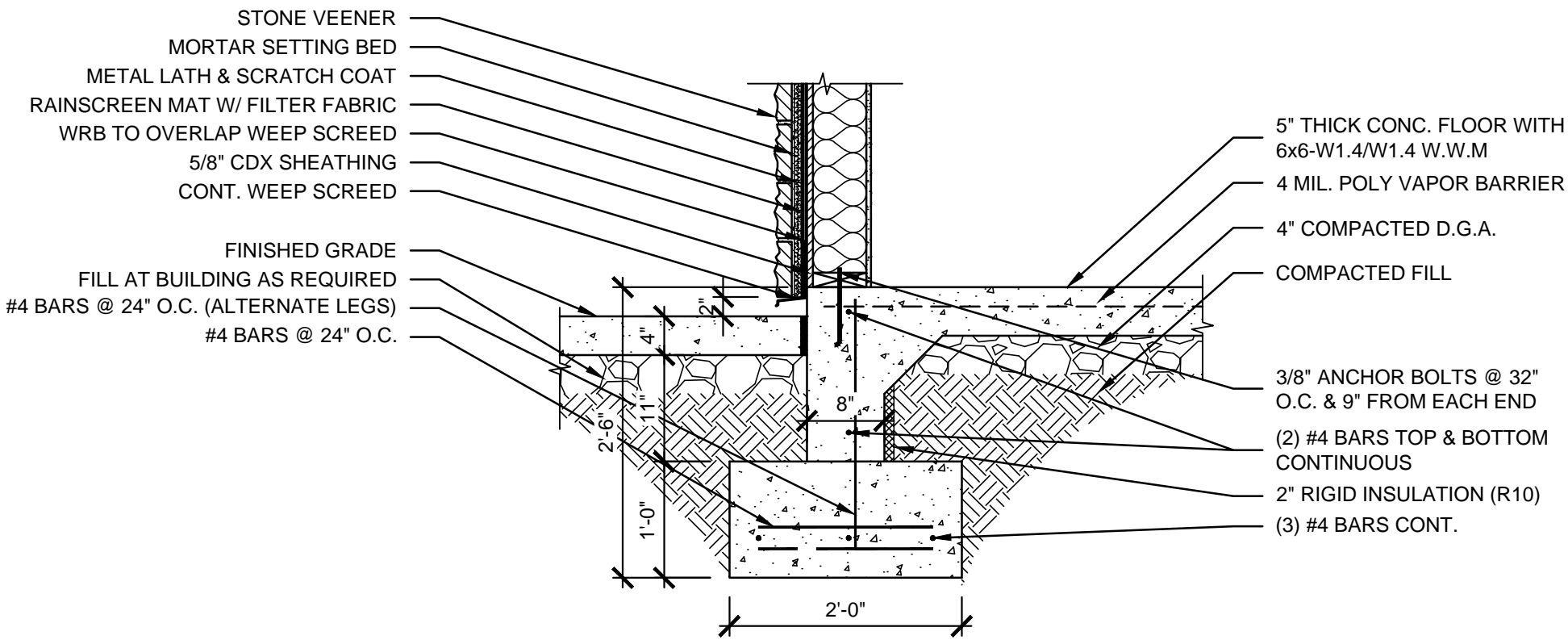
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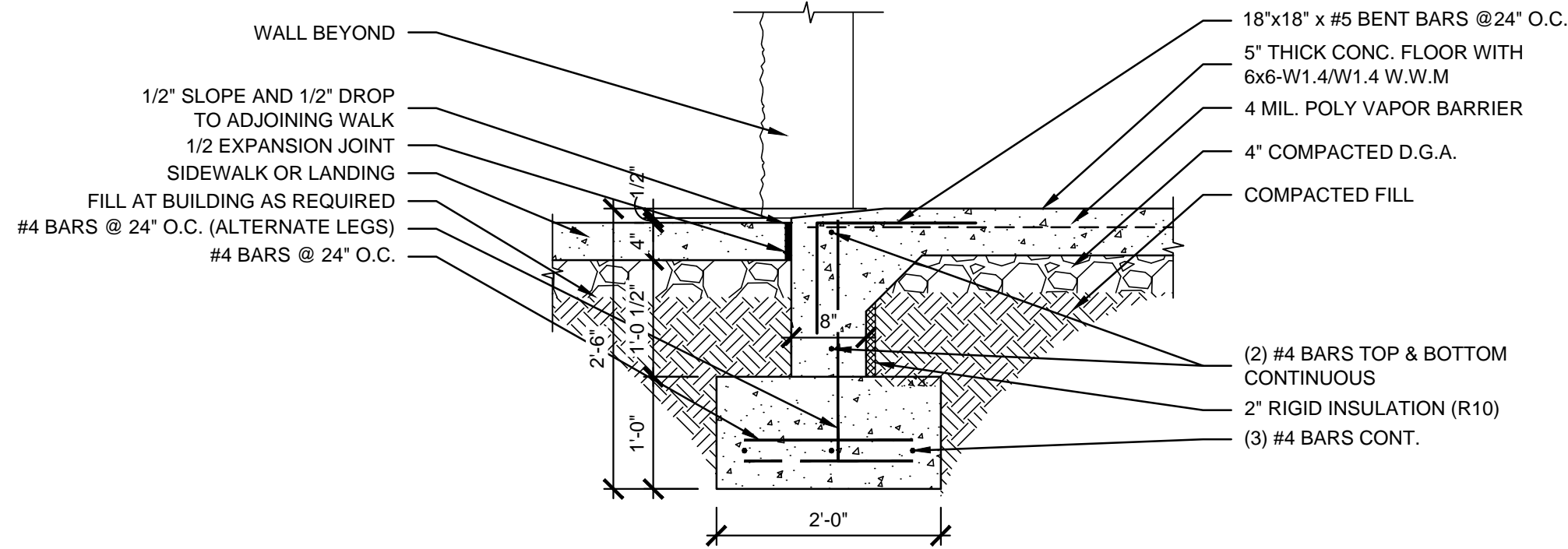
FOUNDATION PLAN

F1.01

PROJECT: PATEL LIQUOR STORE - FILE: F2.01 Foundation Details.dwg - DATE: Dec 02, 2021 1:56PM - BY: GARRETT HAMM



01 TYPICAL FOUNDATION SECTION
SCALE: 3/4" = 1'-0"



02 FOUNDATION THUR DOOR
SCALE: 3/4" = 1'-0"

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FOUNDATION DETAILS

F2.01

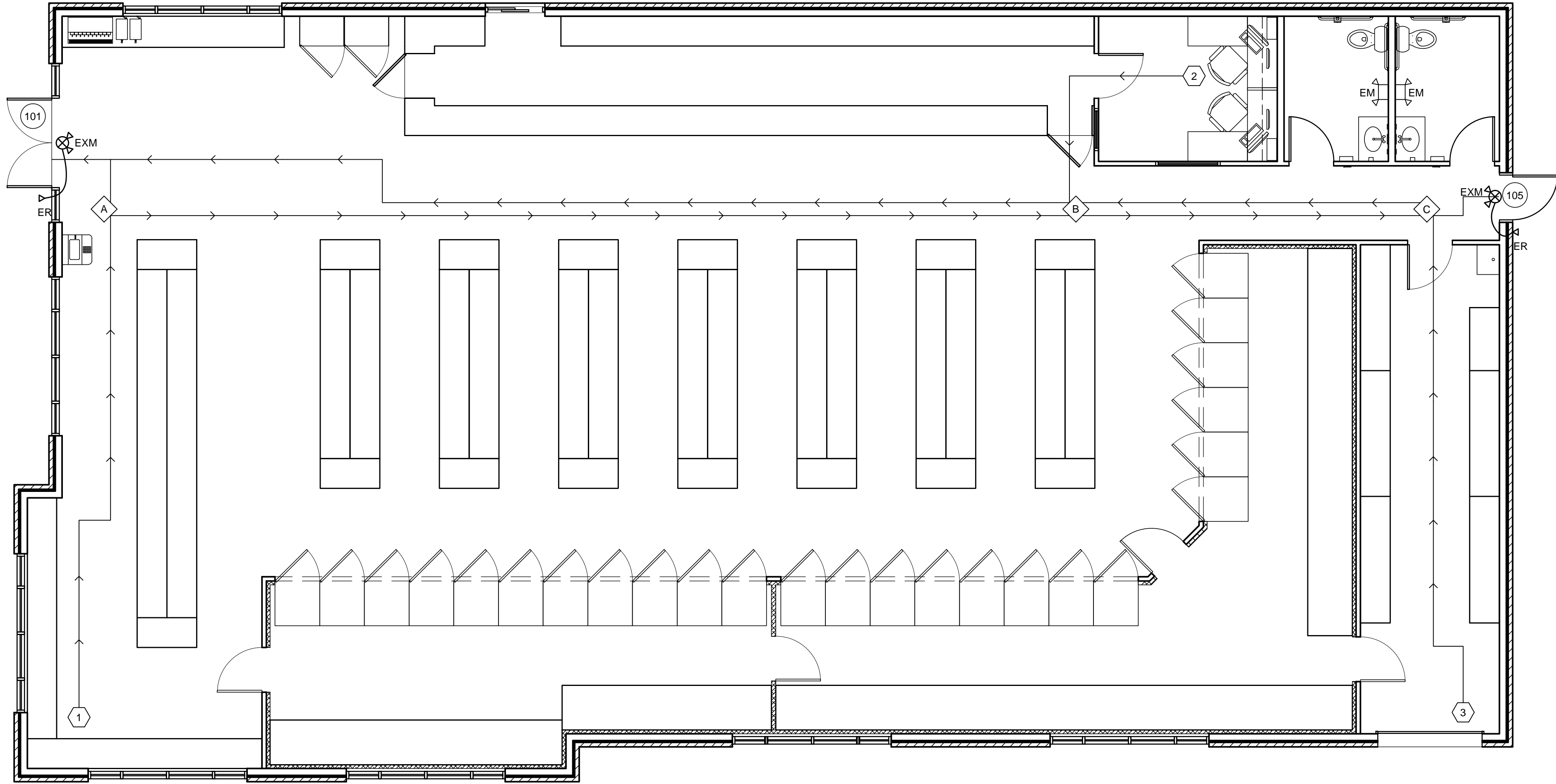
PROJECT: PATEL LIQUOR STORE - FILE: LS1.01 Life Safety Plan.dwg - DATE: Dec 02, 2021 1:56PM - BY: GARRETT HAMM



01

LIFE SAFETY PLAN

SCALE: 3/16" = 1'-0"



CODE ANALYSIS

CATEGORY	CODE REFERENCE	REQUIREMENT/DESIGNATION	PROVIDED
CONSTRUCTION TYPE	TABLE 506.2		V-B
OCCUPANCY GROUPS	TABLE 304.1		MERCANTILE, GROUP - M
OCCUPANCY LOAD	TABLE 1004.1.2	MERCANTILE TOTAL OCCUPANTS	60 OCCUPANTS 60 OCCUPANTS
ALLOWABLE AREA	TABLE 506.2	36,000 S.F.	4,996 S.F.
EXIT CALCULATIONS	SECTION 1006.3.2	COMMON PATH OF EGRESS TRAVEL GROUP	75 FT
	SECTION 1017 TABLE 1017.2	EXIT ACCESS TRAVEL DISTANCE	250 FT

EMERGENCY LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MODEL#	BULBS
ER ▽	EMERGENCY REMOTE HEAD	LITHONIA #ELA-NX-H0606	INCLUDED
EM ⌏	EMERGENCY LIGHT W/ BATTERY PACK REMOTE HEAD WHERE SHOWN	LITHONIA #6ELM2P	INCLUDED
EXM ⌏	COMBINATION EXIT/EMERGENCY FIXTURE W/ BATTERY PACK	LITHONIA #LHQM-S-W-1-R-120/277-HO	INCLUDED

NOTE: EXIT EMERGENCY LIGHTING IS ON AN 'NL' CIRCUIT

LIFE SAFETY PATHWAYS

			TOTAL TRAVEL DISTANCE	
LOCATION	COMMON PATH		DOOR NUMBER	
			EXIT 101	EXIT 105
1	A	34'-0"	40'-0"	130'-0"
2	B	51'-0"	87'-3"	51'-0"
3	C	35'-6"	132'-0"	41'-0"

PATHWAY KEY PLAN:

→	: TRAVEL PATH W/ DIRECTION OF FLOW
⬡	: TRAVEL PATH STARTING LOCATION, WHERE "#" = LOCATION COLUMN IN THIS TABLE.
⬠	: COMMON PATH LOCATION, WHERE "#" = LOCATION COLUMN IN THIS TABLE.
⬢	: EXIT DOOR LOCATION, WHERE "#" = DOOR IN THIS TABLE AND IN DOOR FINISH SCHEDULE.

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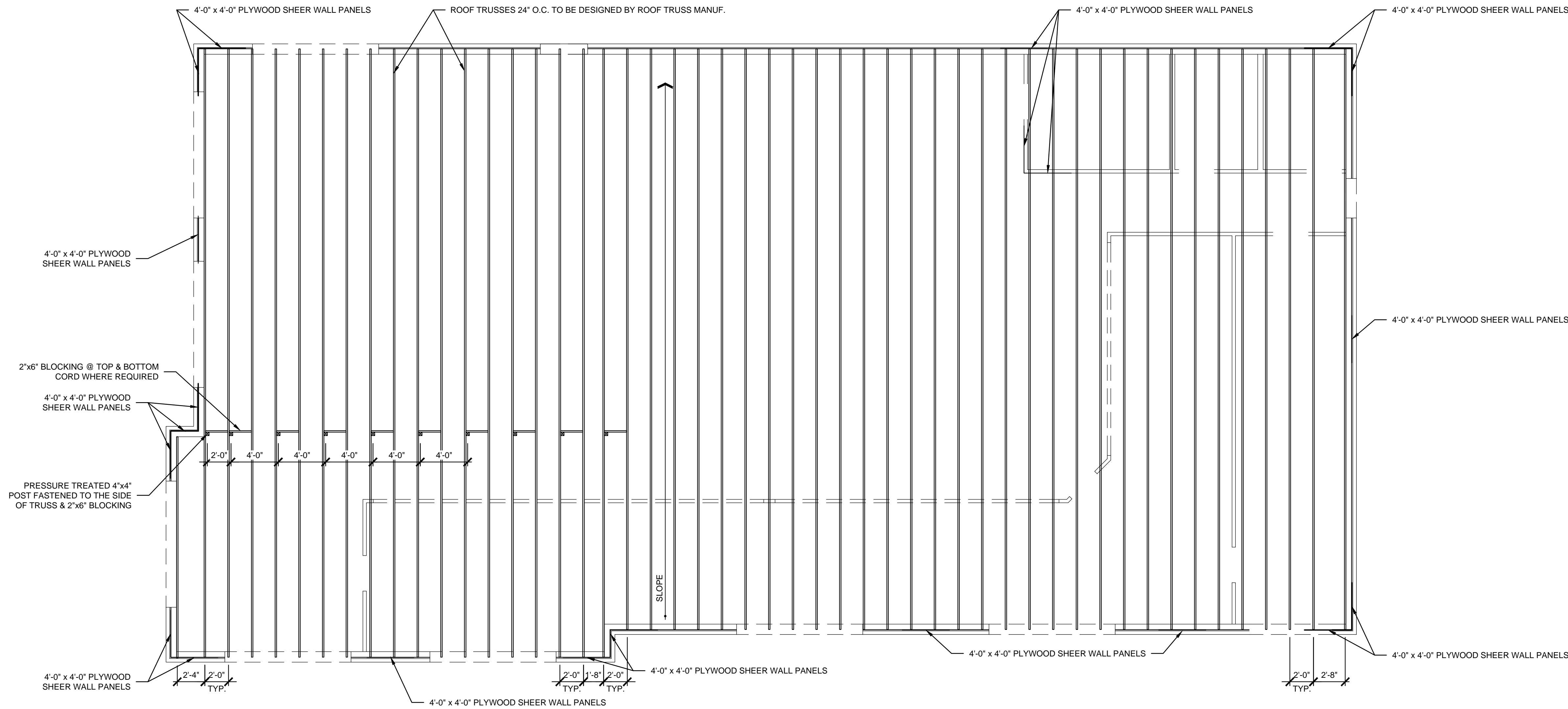
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LIFE SAFETY PLAN

LS1.01

PROJECT: PATEL LIQUOR STORE - FILE: S1.01 Roof Structural Plan.dwg - DATE: Dec 02, 2021 1:56PM - BY: GARRETT HAMM

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01

ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"



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ROOF STRUCTURAL PLAN

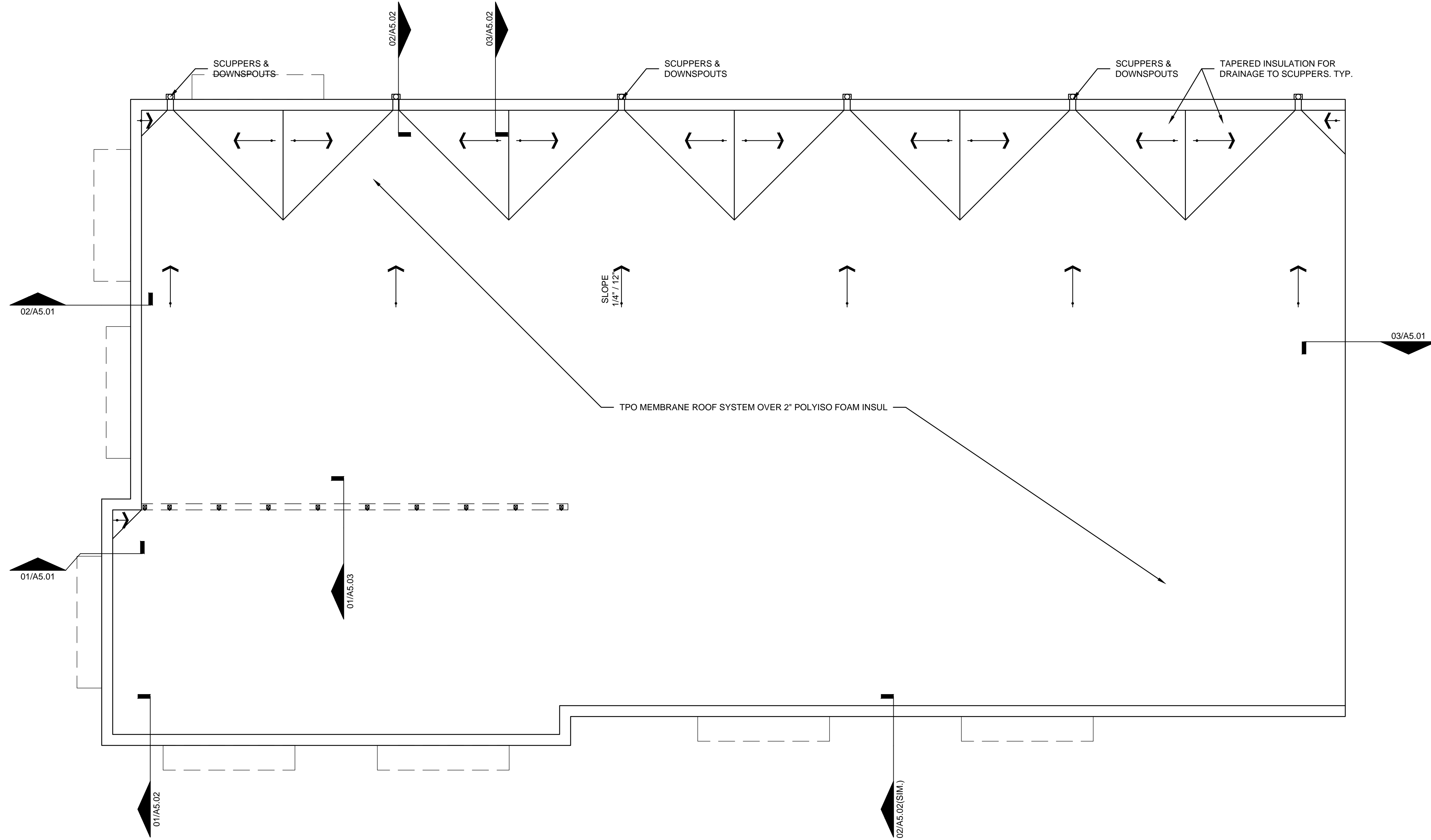
S1.01

PROJECT: PATEL LIQUOR STORE - FILE: S1.02 Roof Plan.dwg - DATE: Dec 02, 2021 1:56PM - BY:GARRETT HAMM



01

ROOF PLAN
SCALE: 3/16" = 1'-0"



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ROOF PLAN

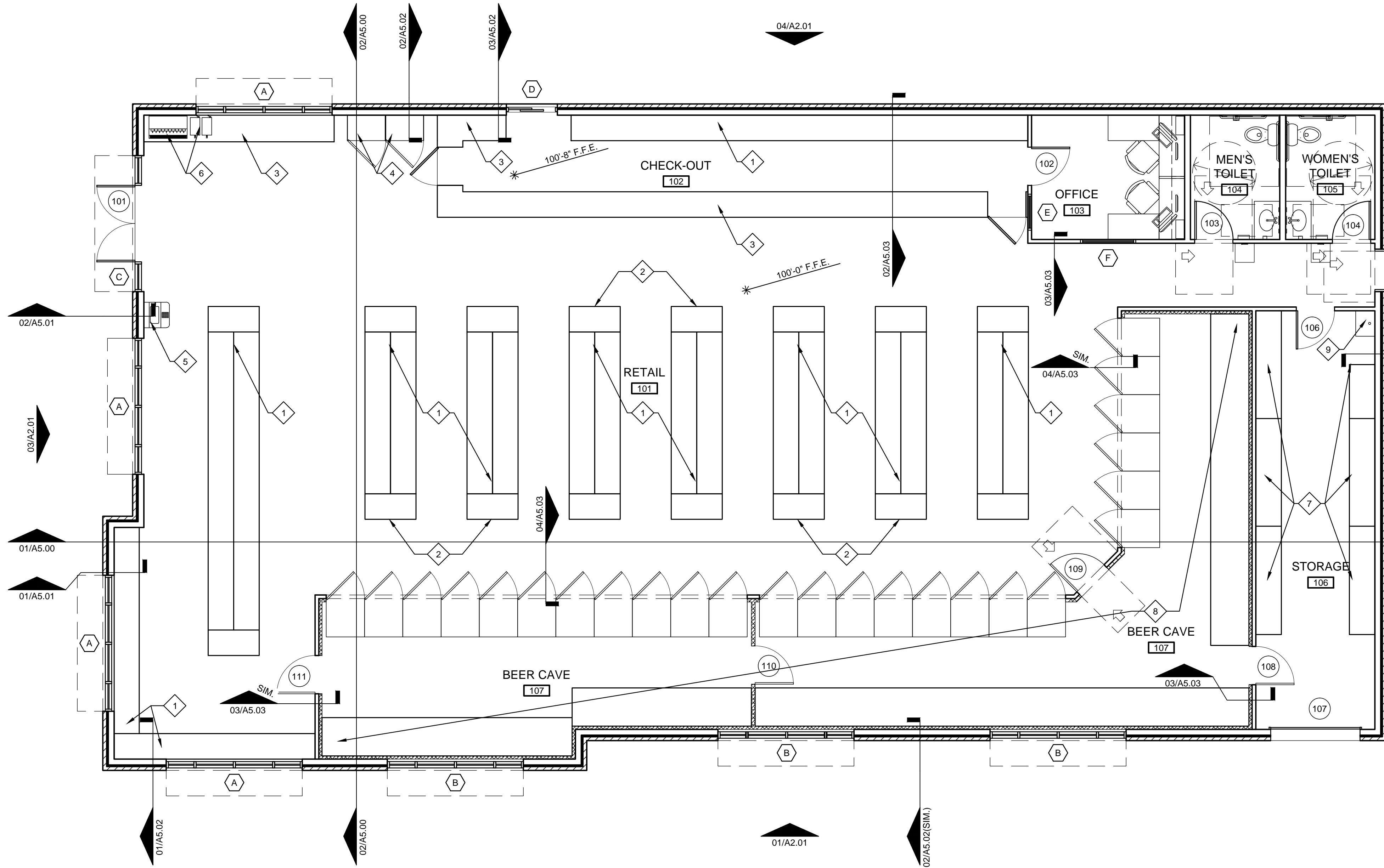
S1.02



01

FLOOR PLAN

SCALE: 3/16" = 1'-0"



SHEET NOTES:

1	SALES SHELVING BY TENANT.
2	END CAP SHELVING BY TENANT.
3	SALES COUNTER CASEWORK.
4	MINI COOLERS.
5	ATM BY TENANT.
6	MISC. DRINK STATION ITEMS BY TENANT.
7	STORAGE RACKS BY TENANT.
8	BEER COOLER BY TENANT. GC TO COORDINATE.
9	MOP SINK

ROOM FINISH SCHEDULE

RM #	ROOM NAME	FLOOR	BASE	WALLS	CEILING MTL	CEILING HGT	REMARKS
101	RETAIL FLOOR	POLISHED CONC.	VINYL	PAINTED GYP.	ACT. TILE	10'-0" A.F.F.	
102	CHECK-OUT	POLISHED CONC.	VINYL	PAINTED GYP.	ACT. TILE	10'-0" A.F.F.	
103	OFFICE	POLISHED CONC.	VINYL	PAINTED GYP.	ACT. TILE	10'-0" A.F.F.	
104	MEN'S TOILET	POLISHED CONC.	VINYL	PAINTED GYP.	ACT. TILE	10'-0" A.F.F.	
105	WOMEN'S TOILET	POLISHED CONC.	VINYL	PAINTED GYP.	ACT. TILE	10'-0" A.F.F.	
106	STORAGE	POLISHED CONC.	VINYL	PAINTED GYP.	ACT. TILE	10'-0" A.F.F.	
107	BEER CAVE	POLISHED CONC.	BY MANUF.	BY MANUF.	BY MANUF.	BY MANUF.	

DOOR SCHEDULE

NUMBER	SIZE	FIRE	MATERIAL	FRAME	HARDWARE	DETAILS	REMARKS
101	PR. 3'-0"x7'-0"	-	ALUM/GLAZ	ALUM.	1	01,02,03,04/A6.01	1
102	3'-0"x7'-0"	-	H.M.	H.M.	2	09,10/A6.01	
103	3'-0"x7'-0"	-	H.M.	H.M.	3	09,10/A6.01	
104	3'-0"x7'-0"	-	H.M.	H.M.	3	09,10/A6.01	
105	3'-0"x7'-0"	-	H.M.	H.M.	4	05,06,07,08/A6.01	
106	3'-0"x7'-0"	-	H.M.	H.M.	5	09,10/A6.01	
107	7'-0"x9'-0"	-	STEEL	STEEL	6	11,12/A6.01, 01/A6.02	
108	3'-0"x7'-0"	-	BY MANUF.	BY MANUF.	6	-	
109	3'-0"x7'-0"	-	BY MANUF.	BY MANUF.	6	-	
110	3'-0"x7'-0"	-	BY MANUF.	BY MANUF.	6	-	
111	3'-0"x7'-0"	-	BY MANUF.	BY MANUF.	6	-	

DOOR HARDWARE SCHEDULE

*NRP = NON-REMOVABLE PIN

- 2 PR. PIVOTS
2 PR. PUSH/PULLS
1 DEADBOLT (THUMB TURN INSIDE)
1 PR. FLUSH BOLTS
2 CLOSERS
1 WEATHERSTRIP SET
1 THRESHOLD
- 1-1/2 PR. HINGES
1 OFFICE SET
1 WALL STOP
- 1-1/2 PR. HINGES
1 PRIVACY SET
1 HINGE STOP

- 1 1/2 PR. HINGES (NRP)
1 PANIC DEVICE W/ PUBLIC ACCESS FEATURE
1 VERTICAL BAR
1 CLOSER W/ HOLD OPEN
1 WEATHERSTRIP SET
1 THRESHOLD
- 1-1/2 PR. HINGES
1 STOREROOM SET
1 HINGE STOP
- HARDWARE BY MANUFACTURER

DOOR SCHEDULE REMARKS

- DOOR PART OF ALUMINUM STOREFRONT SYSTEM (SEE SPECIFICATIONS)

WINDOW SCHEDULE

LETTER	SIZE	SILL HEIGHT	GLAZING	FRAME	DETAILS	REMARKS
A	10'-8"x8'-10"	0'-0"	TINTED/LOW-E	ALUM.	01,02,03,04/A6.03	
B	10'-8"x8'-10"	0'-0"	OPAQUE	ALUM.	01,02,03,04/A6.03	
C	10'-8"x8'-10"	0'-0"	TINTED/LOW-E	ALUM.	01,02,03,04/A6.03 01,02,03,04/A6.01	1
D	4'-0"x3'-6"	3'-6" A.F.F.	TINTED/LOW-E	H.M.	05,06,07,08/A6.03	2
E	2'-10"x3'-8"	3'-6" A.F.F.	CLEAR	H.M.	09,10,11/A6.03	3
F	4'-4"x3'-8"	3'-6" A.F.F.	CLEAR	H.M.	09,10,11/A6.03	

WINDOW SCHEDULE REMARKS

- PART OF THE STOREFRONT SYSTEM, SEE DOOR SCHEDULE.
- DRIVE-THRU WINDOW
- VERIFY FINAL SIZE & SILL HEIGHT AFTER COORDINATING W/ CHECK-OUT CASEWORK MANUF.

NOTE: ALL DIMENSIONS ARE TO FACE OF STUD

NOTE: GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL SUB TRADES AND REQUIREMENTS BY OWNER

NOTE: ELECTRICAL, HVAC AND PLUMBING TO BE RELOCATED PER FEDERAL, STATE AND LOCAL CODES. GENERAL CONTRACTOR TO COORDINATE.

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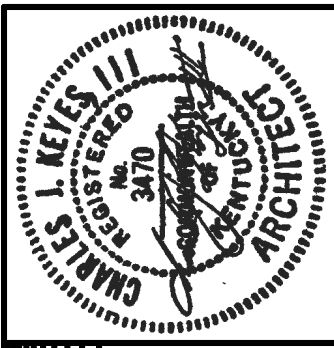
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FLOOR PLAN

A1.01



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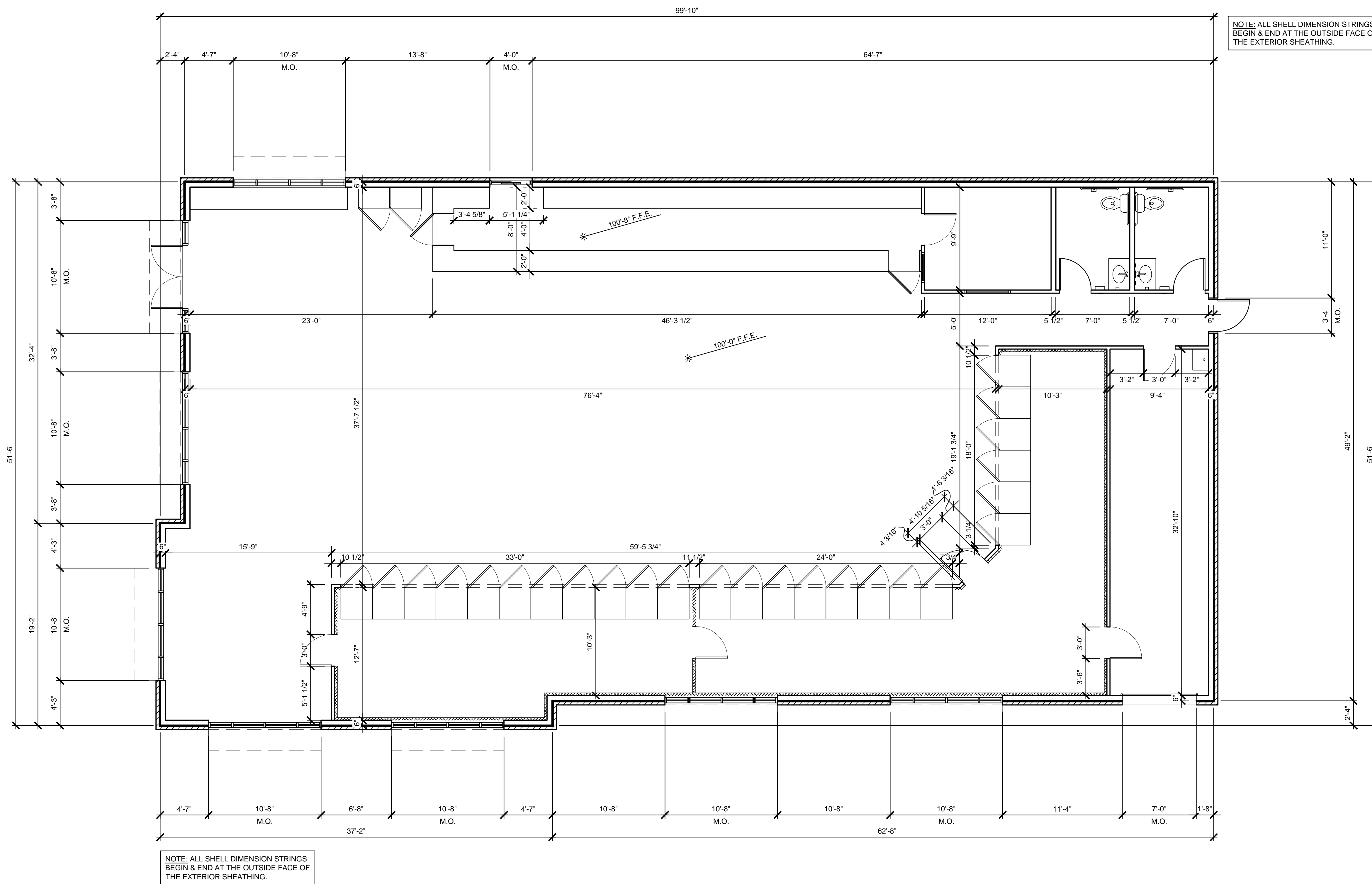
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DIMENSION FLOOR PLAN

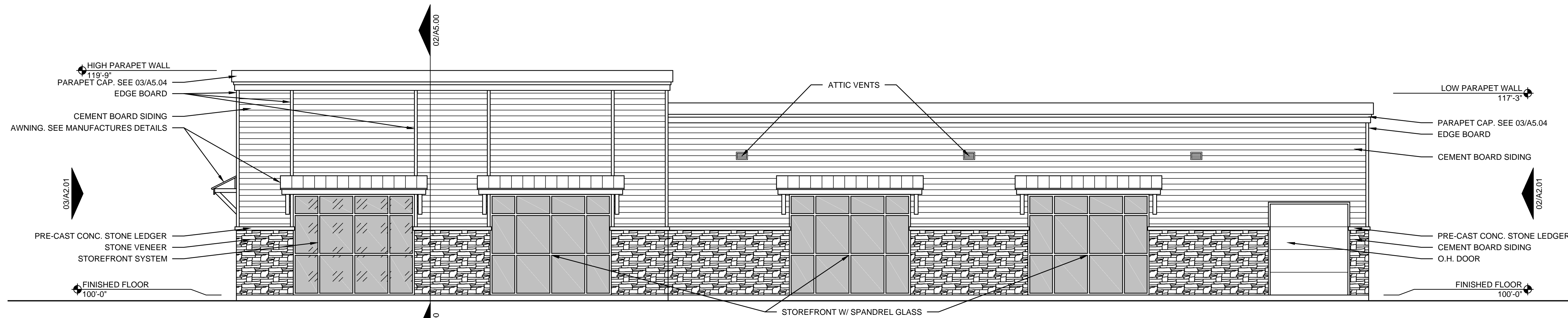
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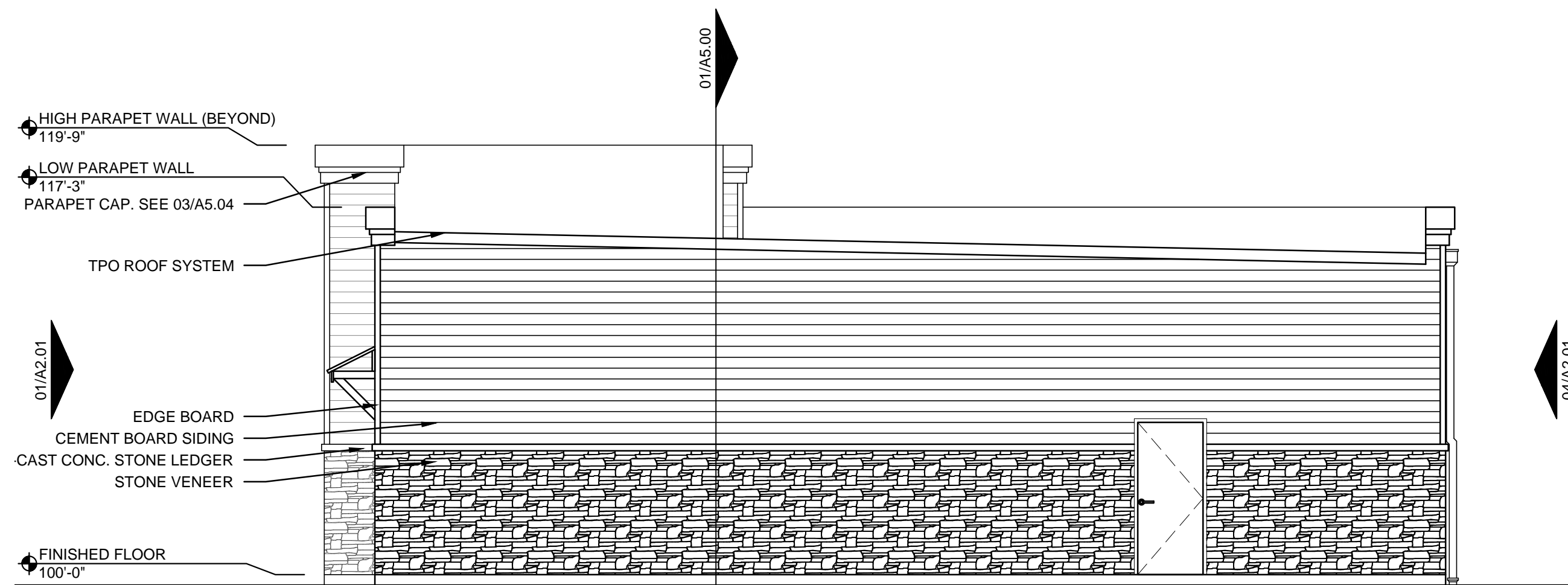
 **01** **DIMENSION FLOOR PLAN**
SCALE: 3/16" = 1'-0"

PROJECT: PATEL LIQUOR STORE - FILE: A1.02 Dimension Floor Plan.dwg - DATE: Dec 02, 2021 1:57PM - BY:GARRETT HAMM

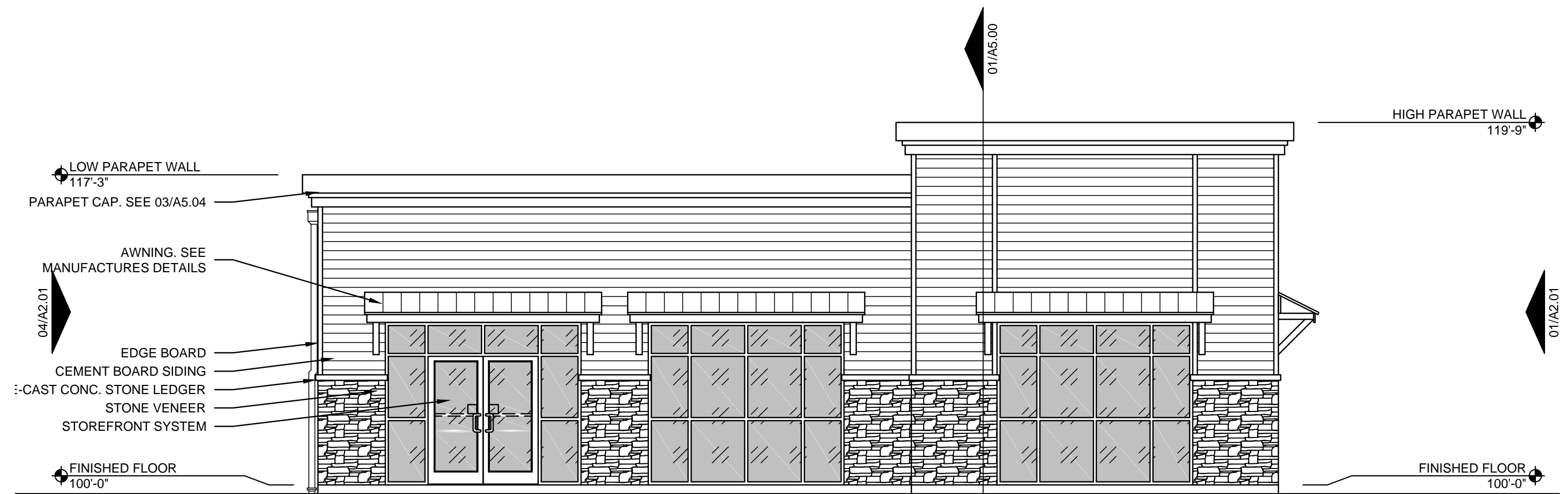
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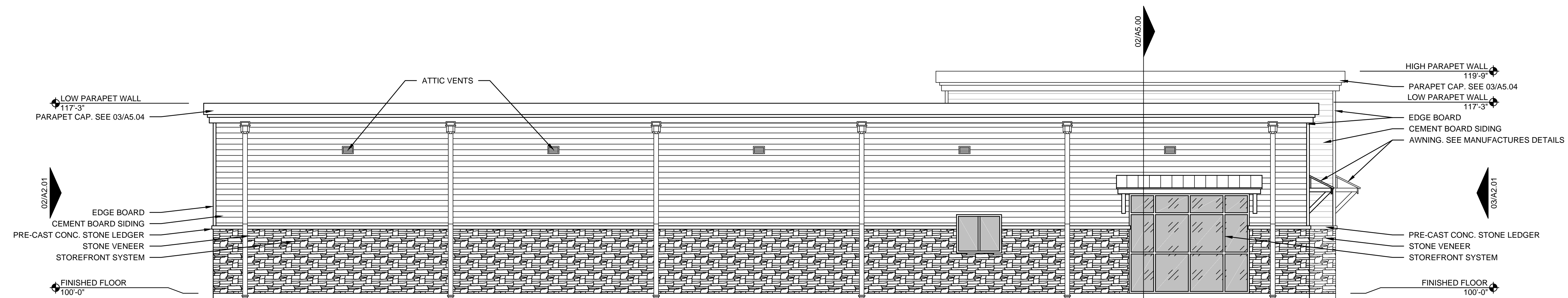
01 NORTH ELEVATION
SCALE: 3/16" = 1'-0"



02 WEST ELEVATION
SCALE: 3/16" = 1'-0"



03 EAST ELEVATION
SCALE: 3/16" = 1'-0"



04 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



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EXTERIOR ELEVATIONS

A2.01

PROJECT: PATEL LIQUOR STORE - FILE: A3.01 Commercial ADA-Ansi Guidelines.dwg - DATE: Dec 02, 2021 1:57PM - BY:GARRETT HAMM

REQUIRED DOOR ACCESSIBLE CLEAR FLOOR SPACE

FRONT APPROACH

HINGE APPROACH

LATCH APPROACH

01 TOILET 104 & 105
SCALE: 1/2" = 1'-0"

RESTROOM ACCESSORIES SCHEDULE

	ITEM (SEE NOTE 2)	MODEL #	SUPPLIER	BACKUP SUPPORT (SEE NOTE 3)
1A	GRAB BAR 42"	SEE SPECS.	SEE SPECS. FOR RECOMMENDED MANUFACTURERS	MOUNTED PER MANUFACTURER'S RECOMMENDATIONS
1B	GRAB BAR 36"	SEE SPECS.		
1C	GRAB BAR 24" (18" MIN)	SEE SPECS.		
2	TOILET TISSUE DISPENSER, DOUBLE, SURFACE MOUNTED (SEE NOTE 4)	SEE SPECS.	SEE SPECS. FOR RECOMMENDED MANUFACTURERS	MOUNTED PER MANUFACTURER'S RECOMMENDATIONS

	ITEM (SEE NOTE 2)	MODEL #	SUPPLIER	BACKUP SUPPORT (SEE NOTE 3)
4	TOWEL DISPENSER & WASTE RECEPTACLE, INDIVIDUAL RECESSED (OPTIONAL)	SEE SPECS.	SEE SPECS. FOR RECOMMENDED MANUFACTURERS	MOUNTED PER MANUFACTURER'S RECOMMENDATIONS
5	MIRROR, CHANNEL FRAME	SEE SPECS.	SEE SPECS. FOR RECOMMENDED MANUFACTURERS	MOUNTED PER MANUFACTURER'S RECOMMENDATIONS
6	SOAP DISPENSER, WALL-MOUNTED	SEE SPECS.	SEE SPECS. FOR RECOMMENDED MANUFACTURERS	MOUNTED PER MANUFACTURER'S RECOMMENDATIONS

02 TYPICAL ACCESSIBLE RESTROOM DETAILS
SCALE: 1/2" = 1'-0"

REQUIRED ACCESSIBLE CLEAR FLOOR SPACE

TYPICAL CLEAR FLOOR SPACES

1	TURNAROUND / TURNING CIRCLE: 60" DIAMETER CLEAR FLOOR SPACE (TYP.)
2	EQUIPMENT / FIXTURE: 30"x48" CLEAR FLOOR SPACE
3	TOILET WITHOUT 9" TOE CLEARANCE: 66"x66" CLEAR FLOOR SPACE
4	ACCESSIBLE SIGNAGE - SEE DETAIL 04/A3.01 FOR MORE INFORMATION

MEETS THE STRICTEST INTERPRETATION OF BOTH THE ANSI 117.1 AND 2010 FEDERAL ADA STANDARDS FOR ACCESSIBLE DESIGN

NOTE:
NOT ALL ITEMS LISTED ON THIS SHEET WILL APPLY TO THIS PROJECT. IF THERE ARE ANY QUESTIONS OR COMMENTS CONTACT KEYES ARCHITECTS AND ASSOCIATES.

03 LAVATORY DETAIL
SCALE: 1" = 1'-0"

04 DOOR SIGN / DOOR DETAIL
SCALE: 3/8" = 1'-0"

03A3.01

PROJECT NO: 21-4188
DRAWN BY: GRH/
DATE: 2021-12-02

03 LAVATORY DETAIL
SCALE: 1" = 1'-0"

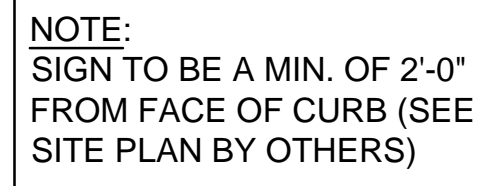
04 DOOR SIGN / DOOR DETAIL
SCALE: 3/8" = 1'-0"

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COMMERCIAL ADA-ANSI GUIDELINES
A3.01



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

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

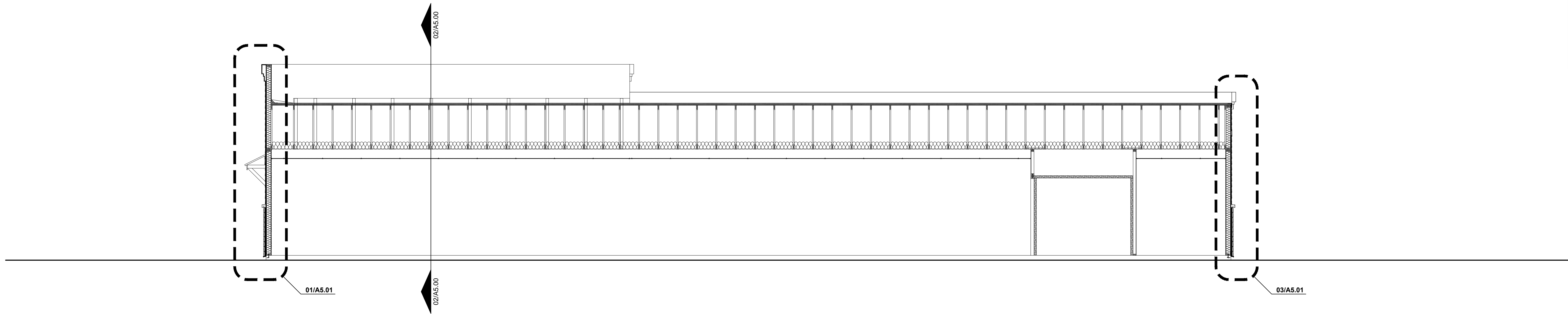
NOTE:

1. USE PAINT WHICH CONTRASTS WITH BACKGROUND
2. THIS SIGN TO BE FURNISHED AND INSTALLED BY G.C.

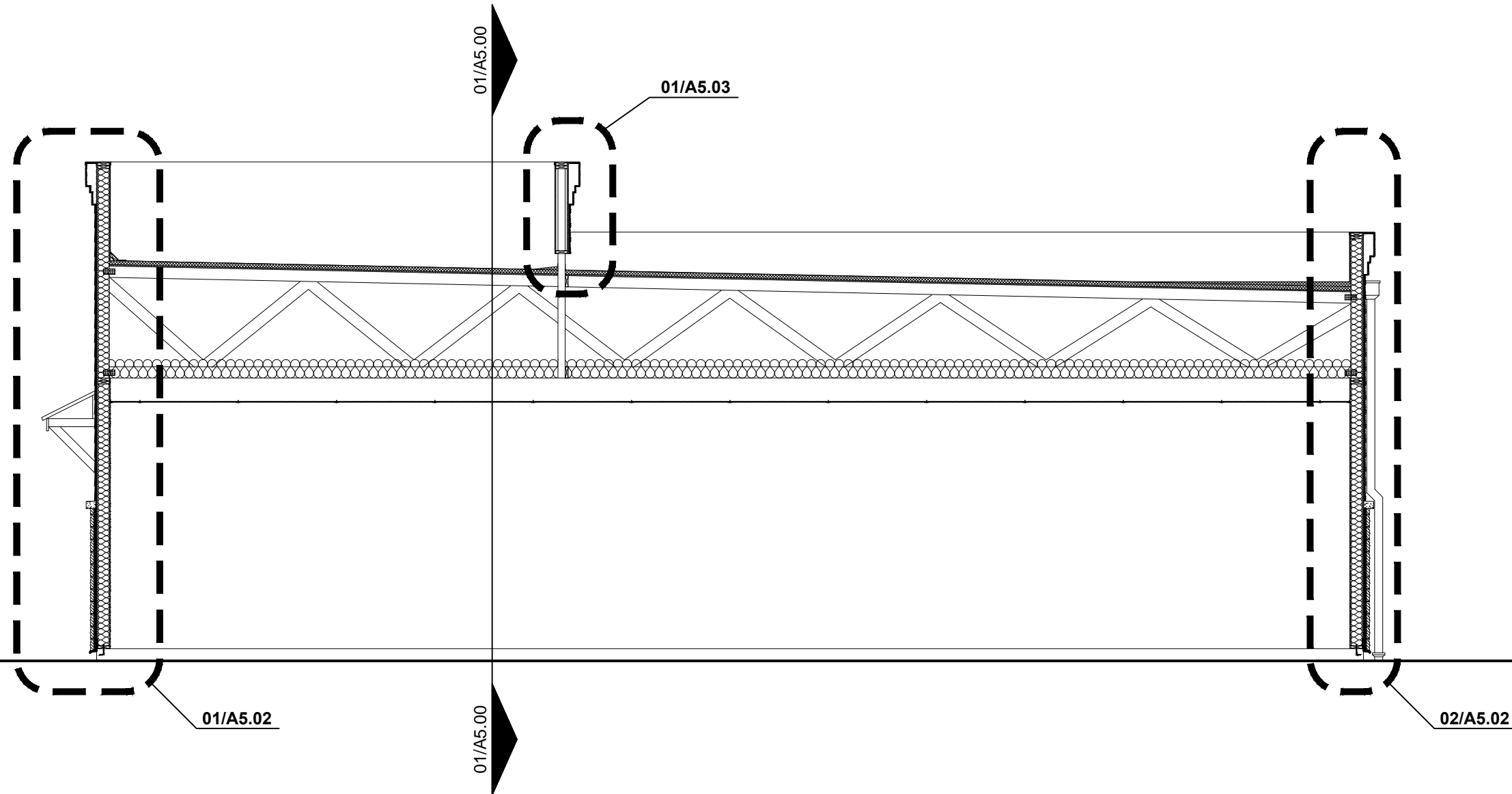
PARKING SPACES	
TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	2 PERCENT OF TOTAL
1001 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000

SCALE: NTS

PROJECT: PATEL LIQUOR STORE - FILE: A5.00 Building Sections.dwg - DATE: Dec 02, 2021 1:57PM - BY: GARRETT HAMM



01 BUILDING SECTION
SCALE: 3/16" = 1'-0"



02 BUILDING SECTION
SCALE: 3/16" = 1'-0"

PROJECT NO:
21-4188
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DATE:
2021-12-02



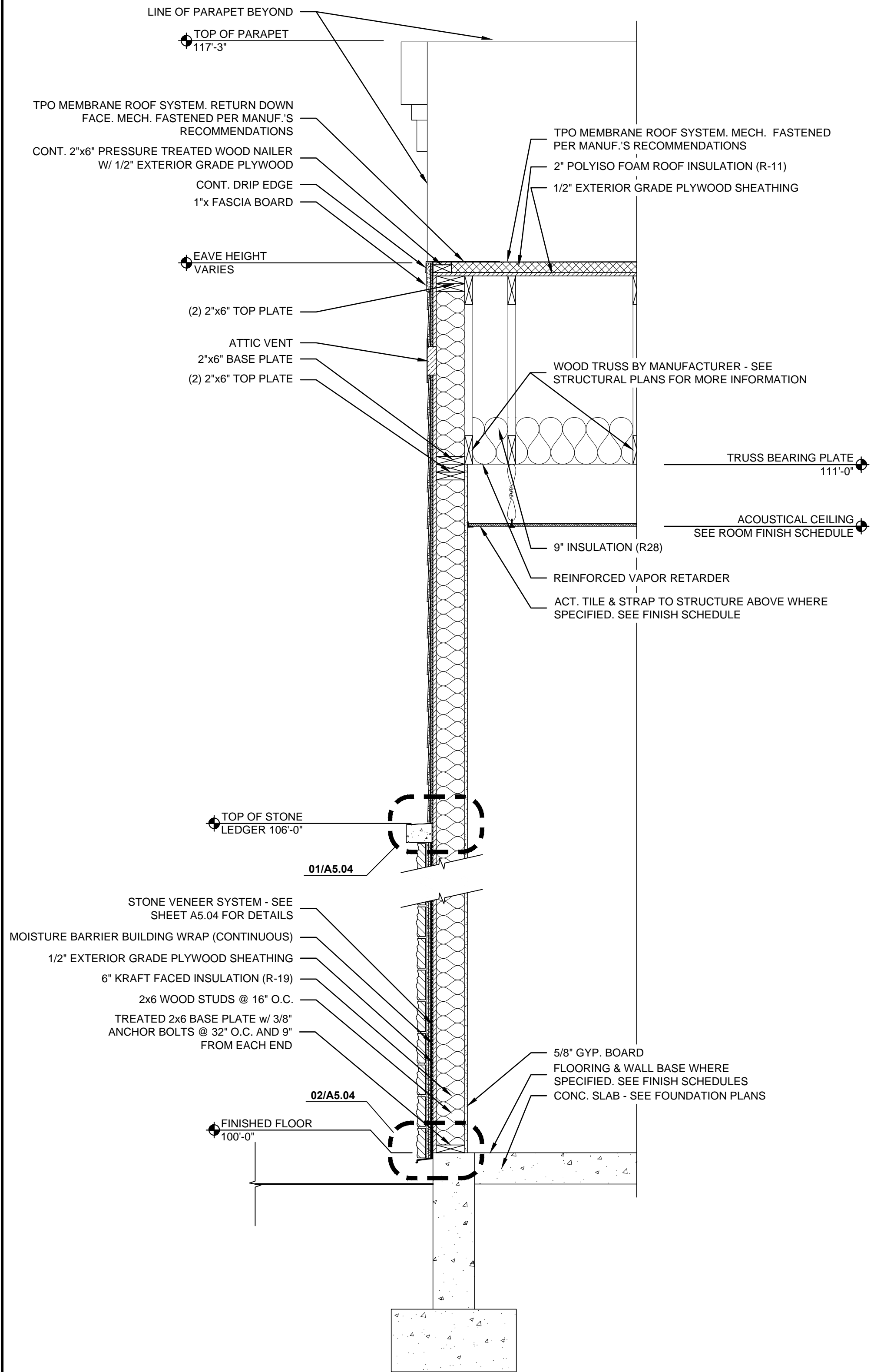
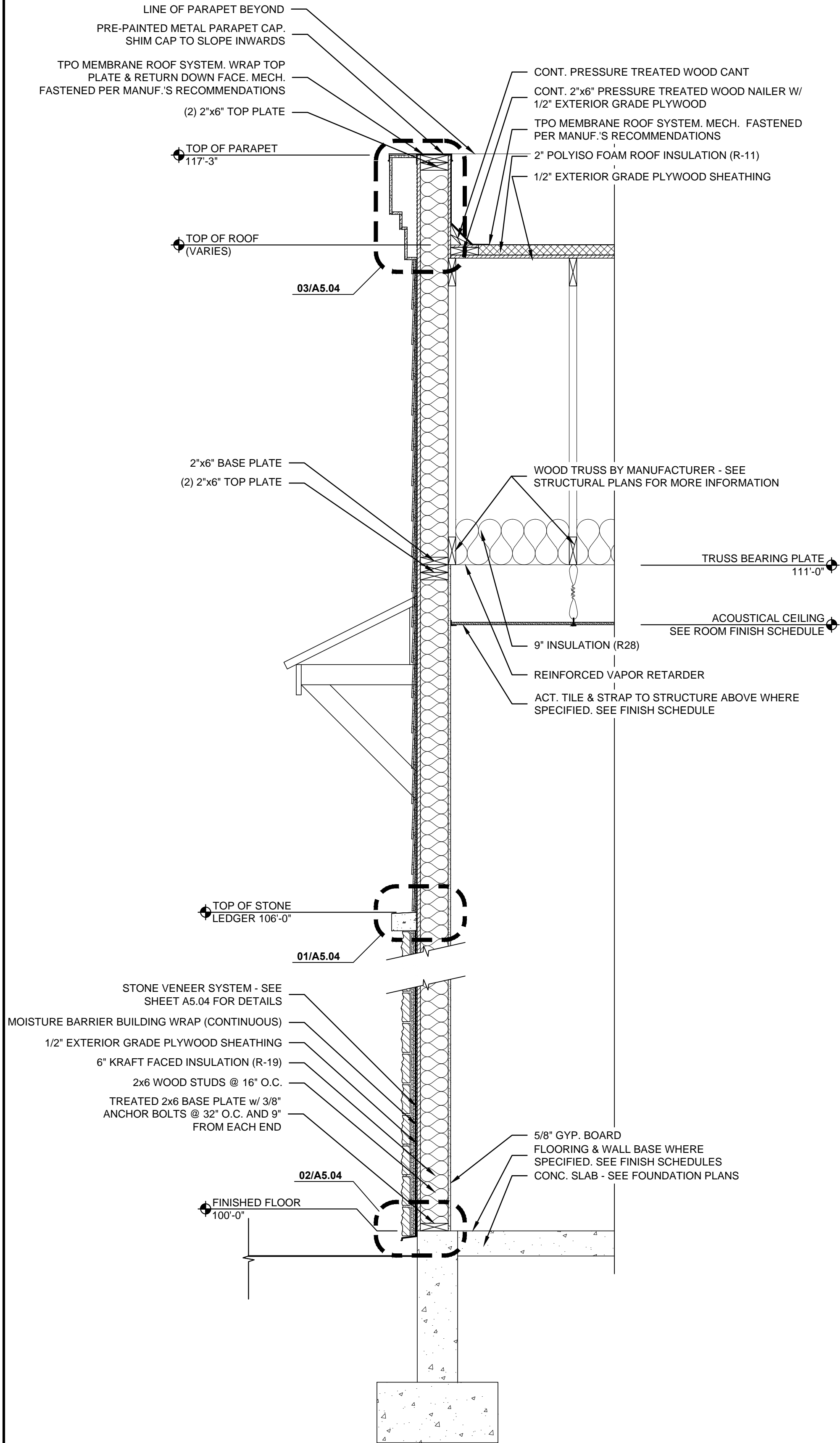
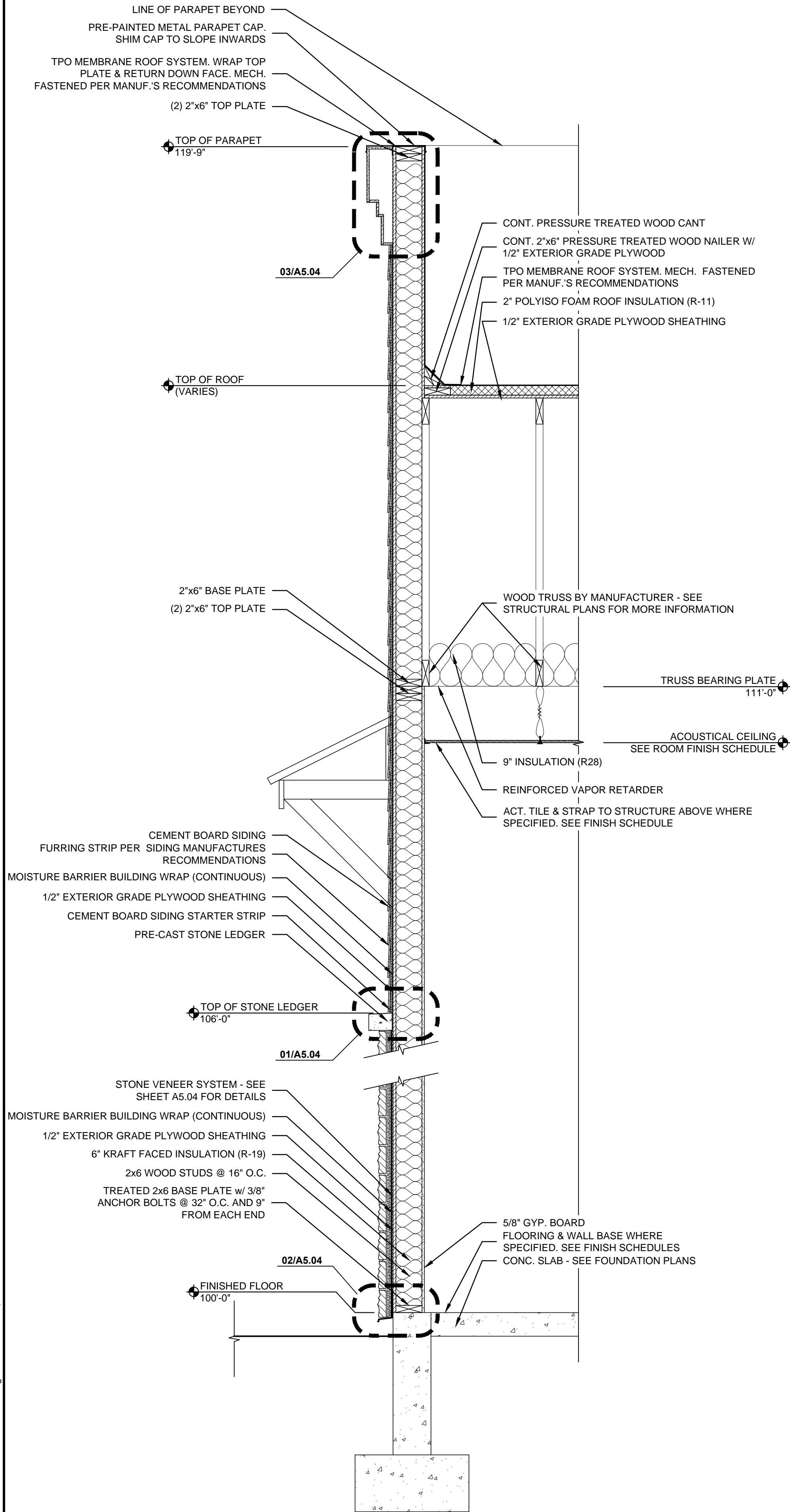
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LOUISVILLE, KENTUCKY 40213 (502) 636-5113

NEW CONSTRUCTION FOR:
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NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

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BUILDING SECTIONS
A5.00

PROJECT: PATEL LIQUOR STORE - FILE: A5.01 Wall Sections.dwg - DATE: Dec 02, 2021 1:56PM - BY: GARRETT HAMM



PROJECT NO:
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NEW CONSTRUCTION FOR:

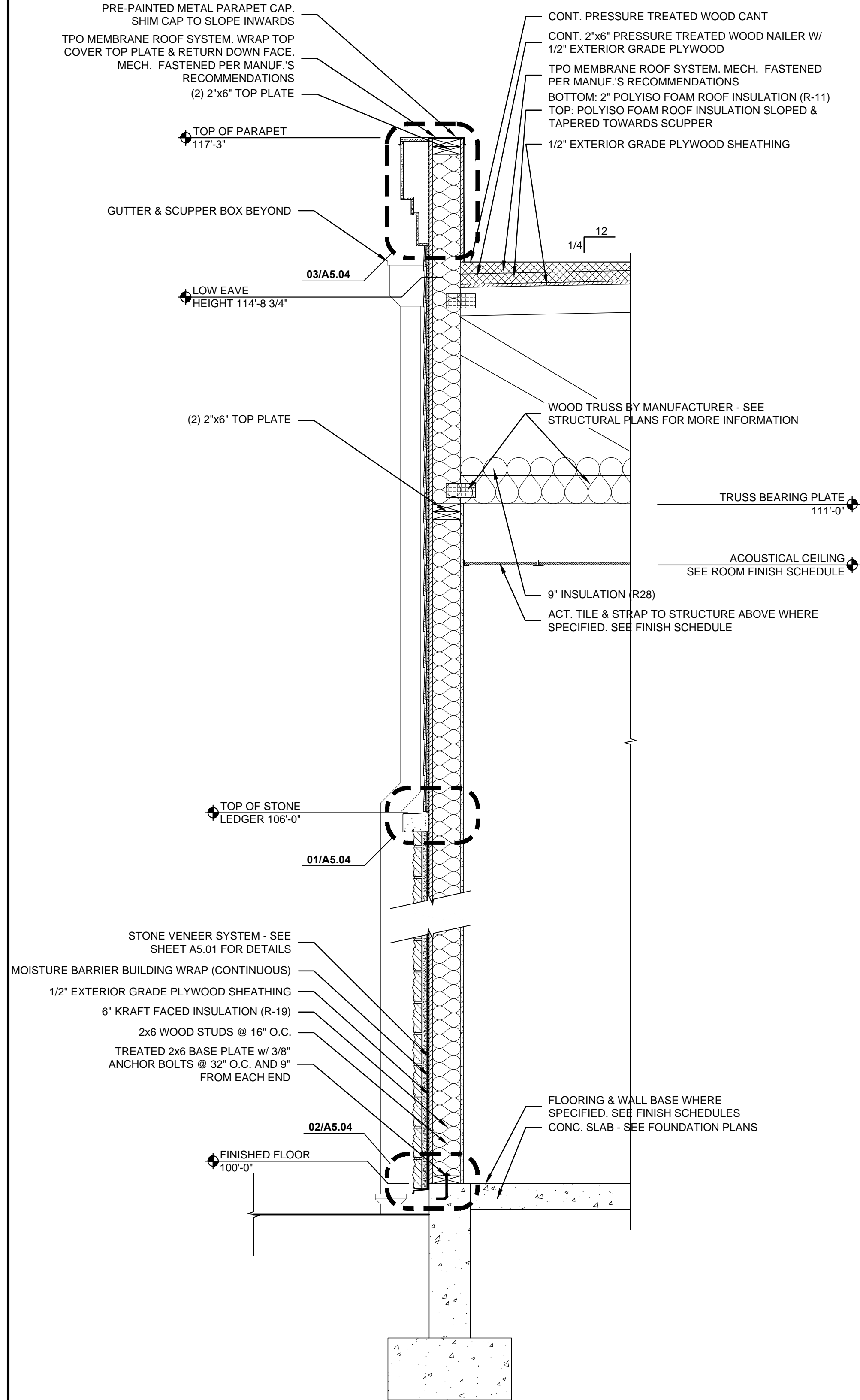
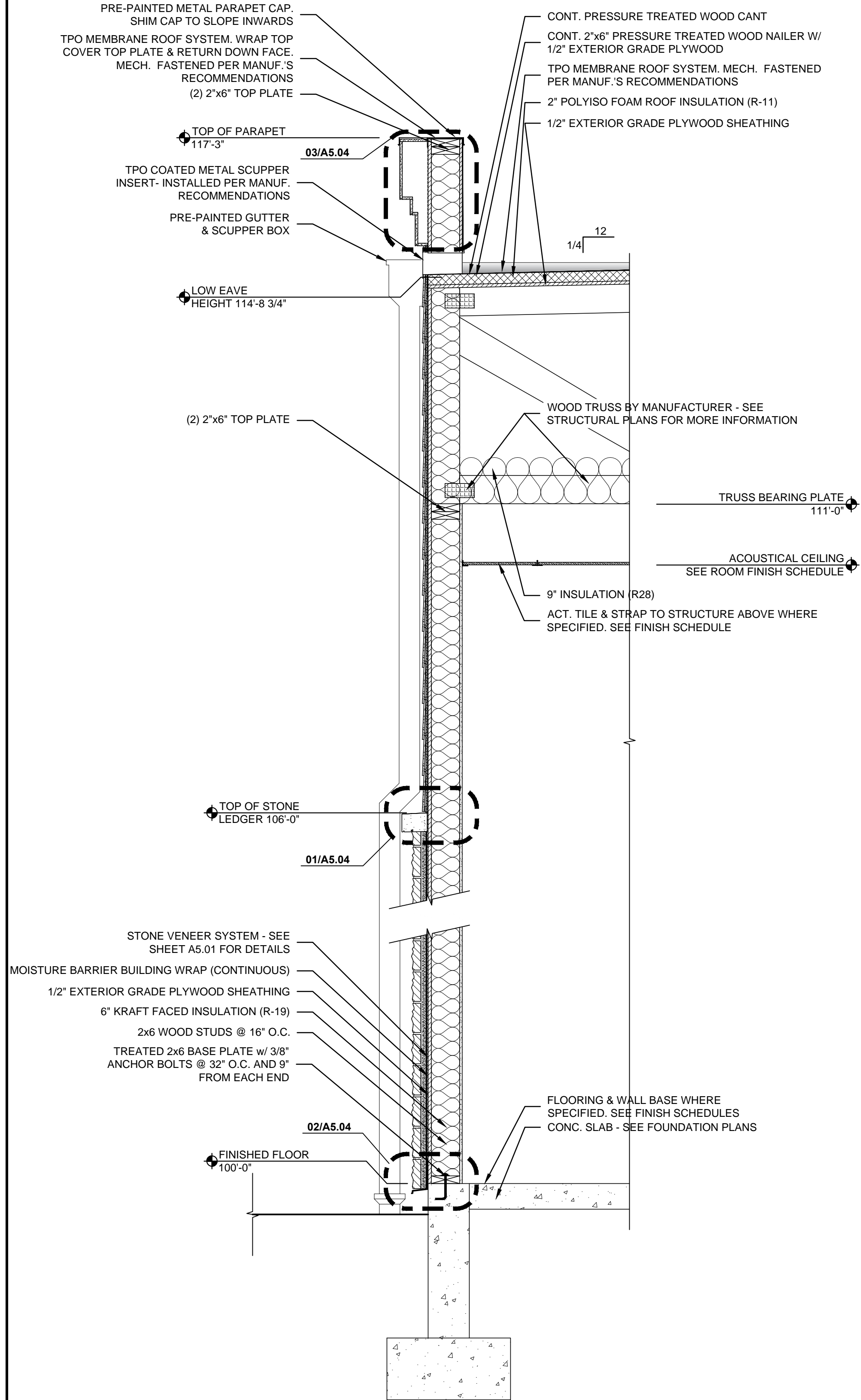
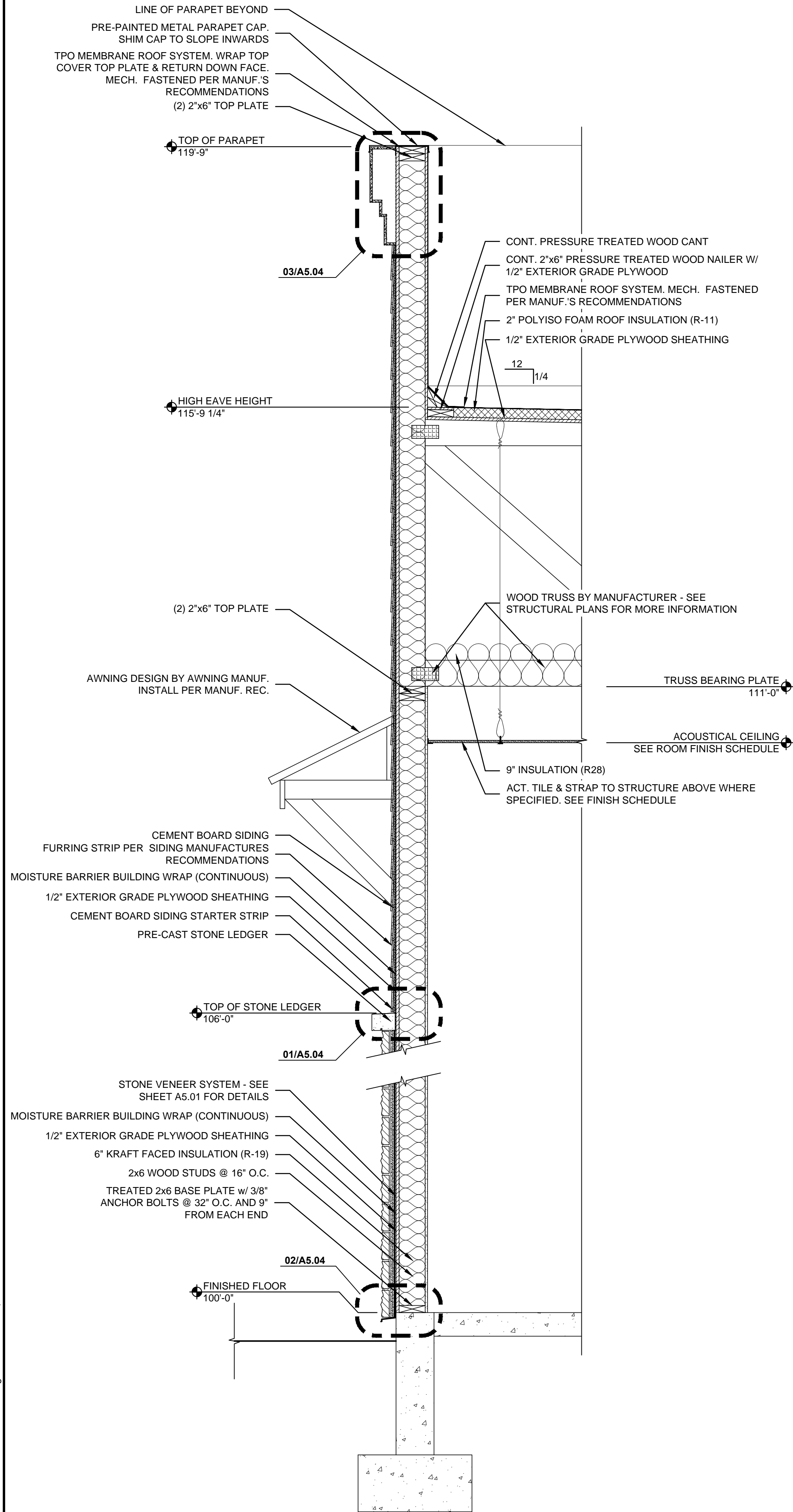
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WALL SECTIONS

A5.01

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PROJECT: PATEL LIQUOR STORE - FILE: A5.02 Wall Sections.dwg - DATE: Dec 02, 2021 1:56PM - BY: GARRETT HAMM



PROJECT NO:
21-4188
DRAWN BY:
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DATE:
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NEW CONSTRUCTION FOR:

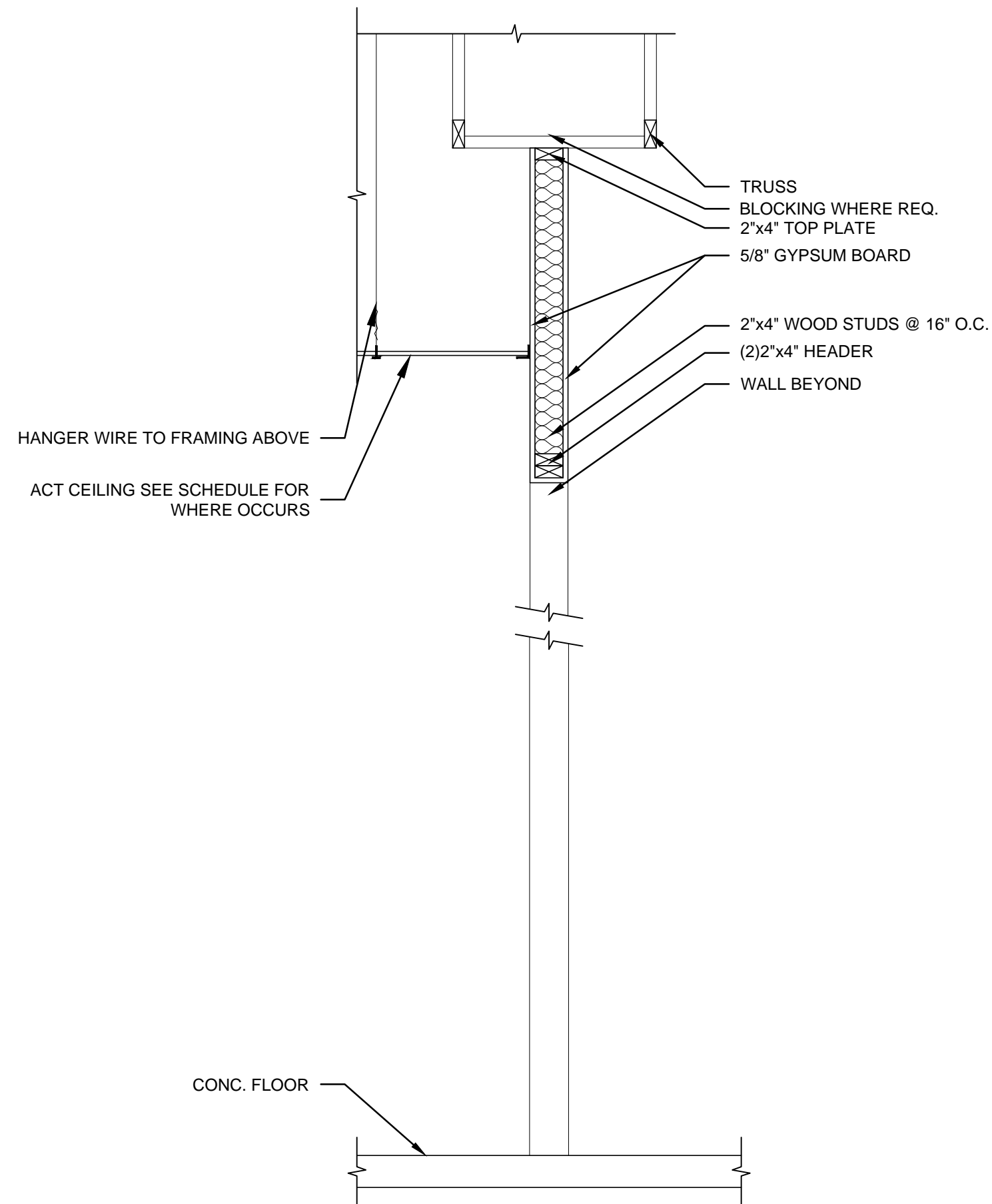
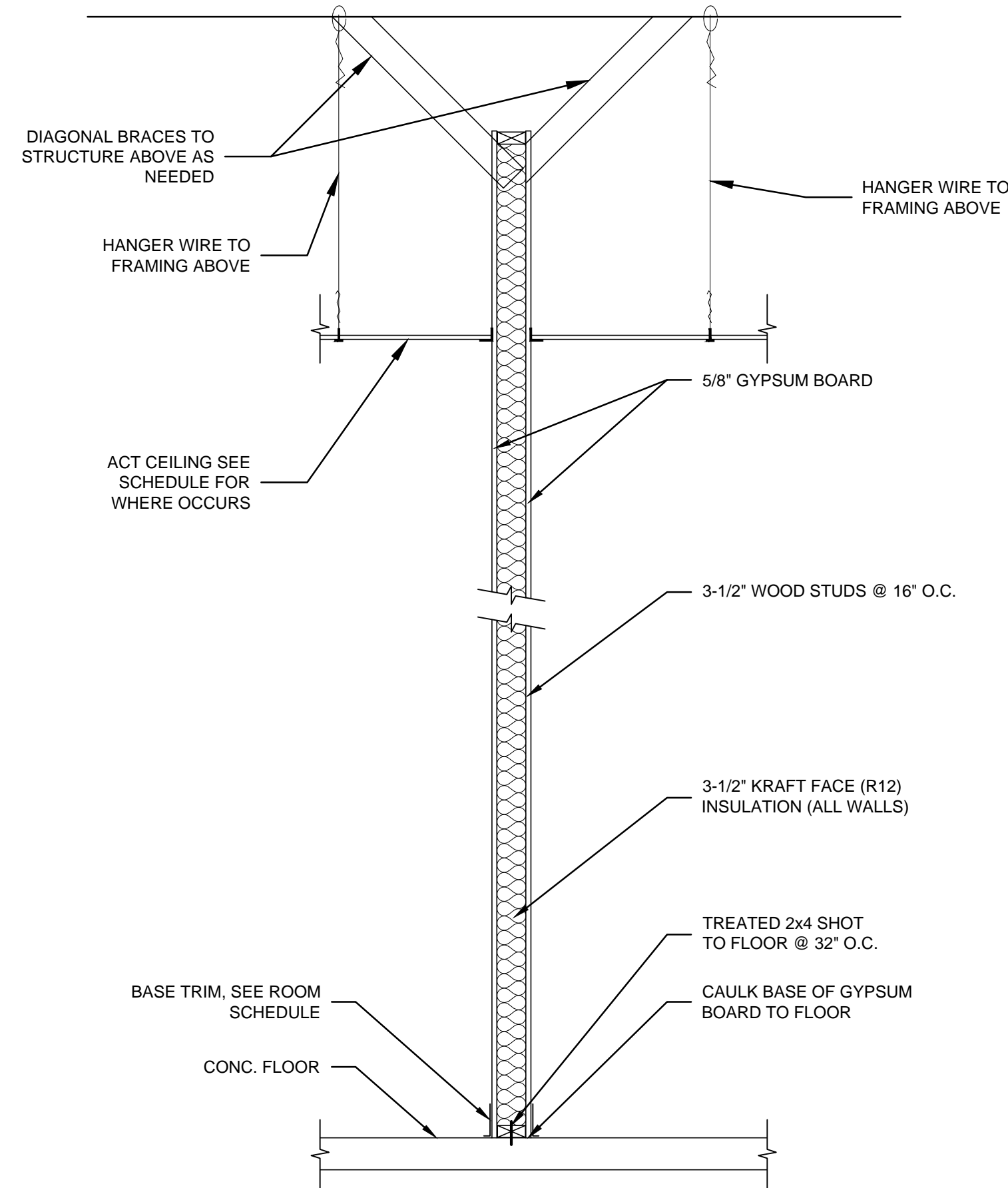
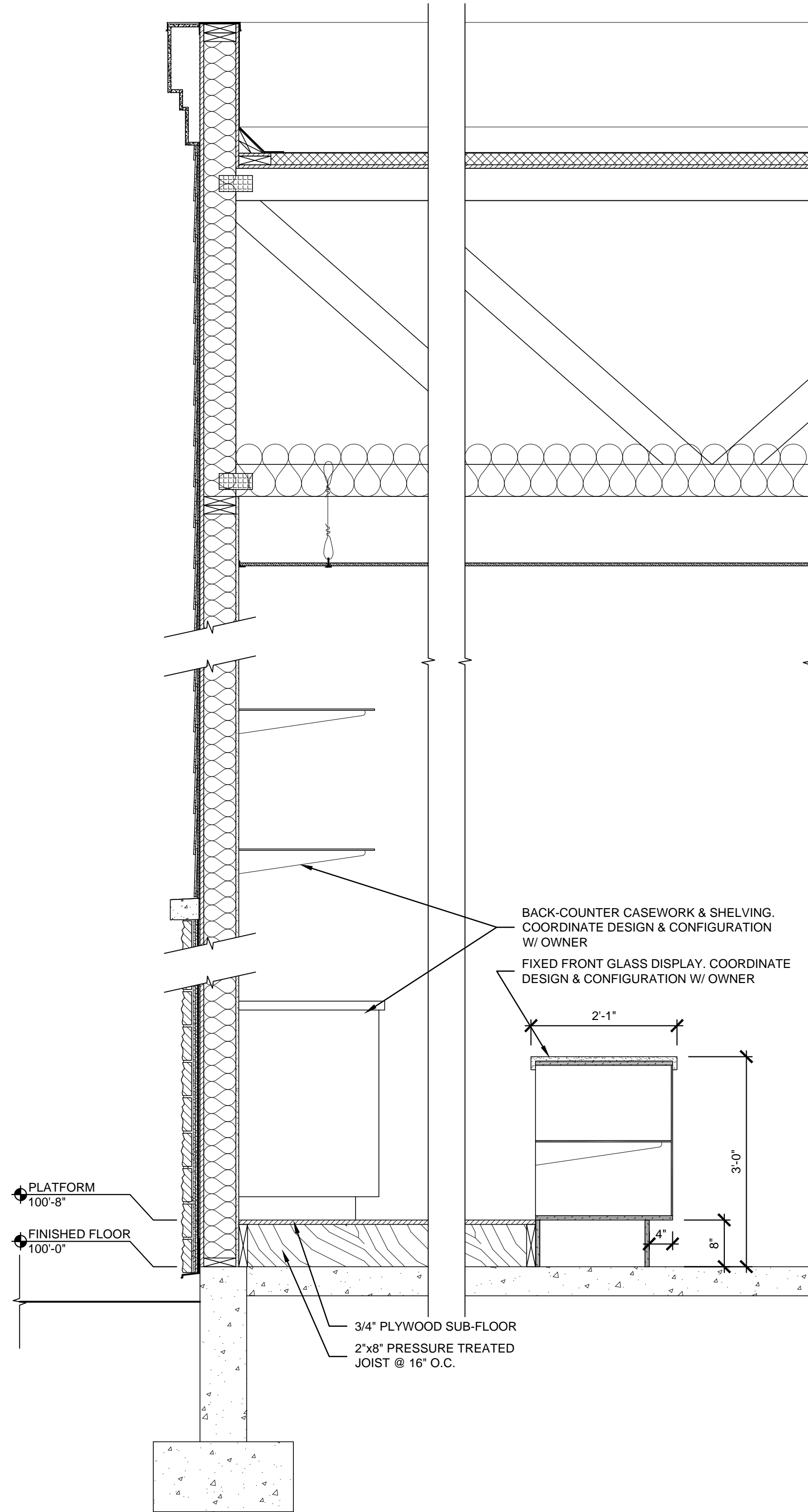
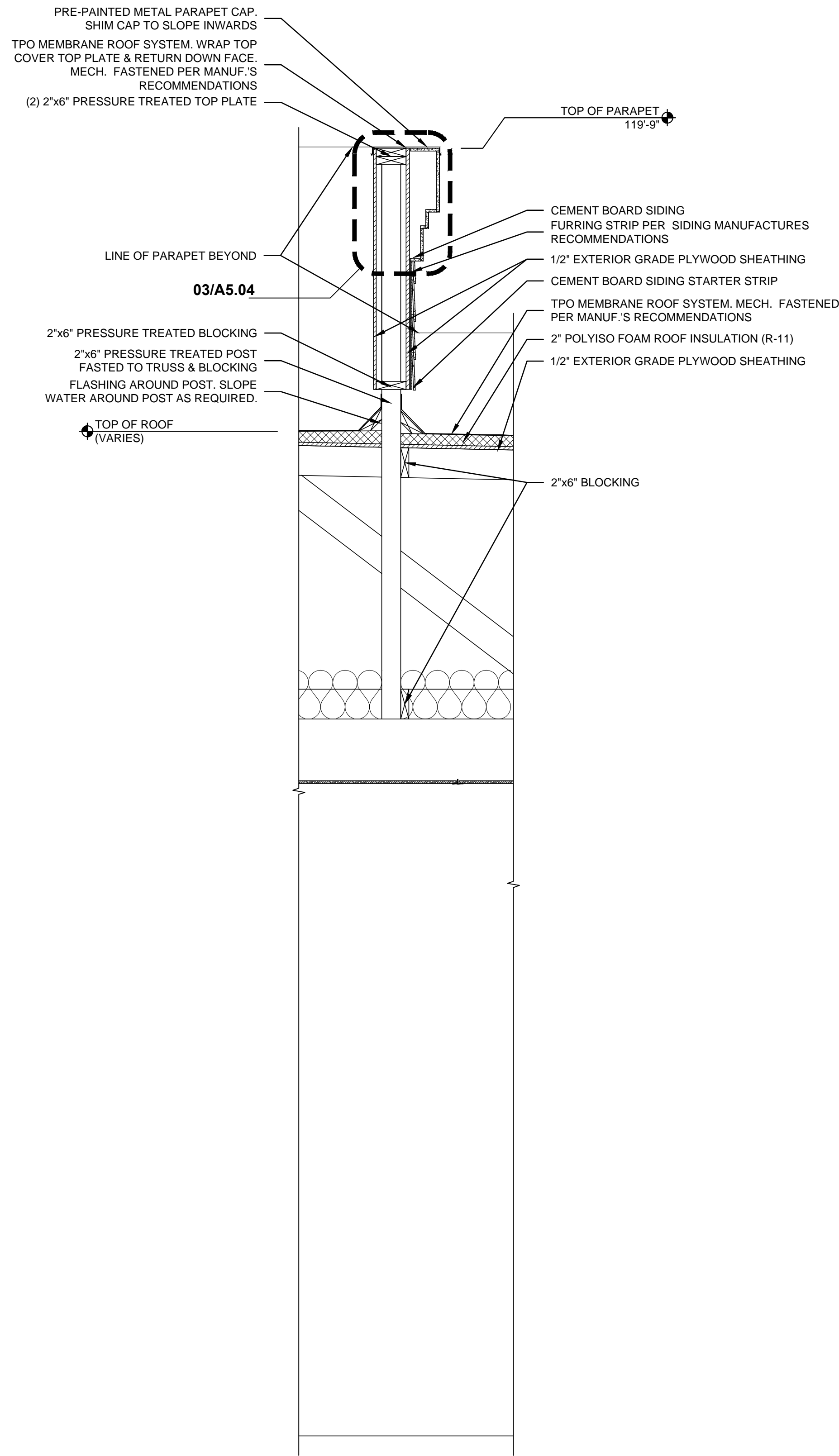
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WALL SECTIONS

A5.02

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PROJECT: PATEL LIQUOR STORE - FILE: A5.03 Wall Sections.dwg - DATE: Dec 02, 2021 1:58PM - BY: GARRETT HAMM



PROJECT NO:
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DATE:
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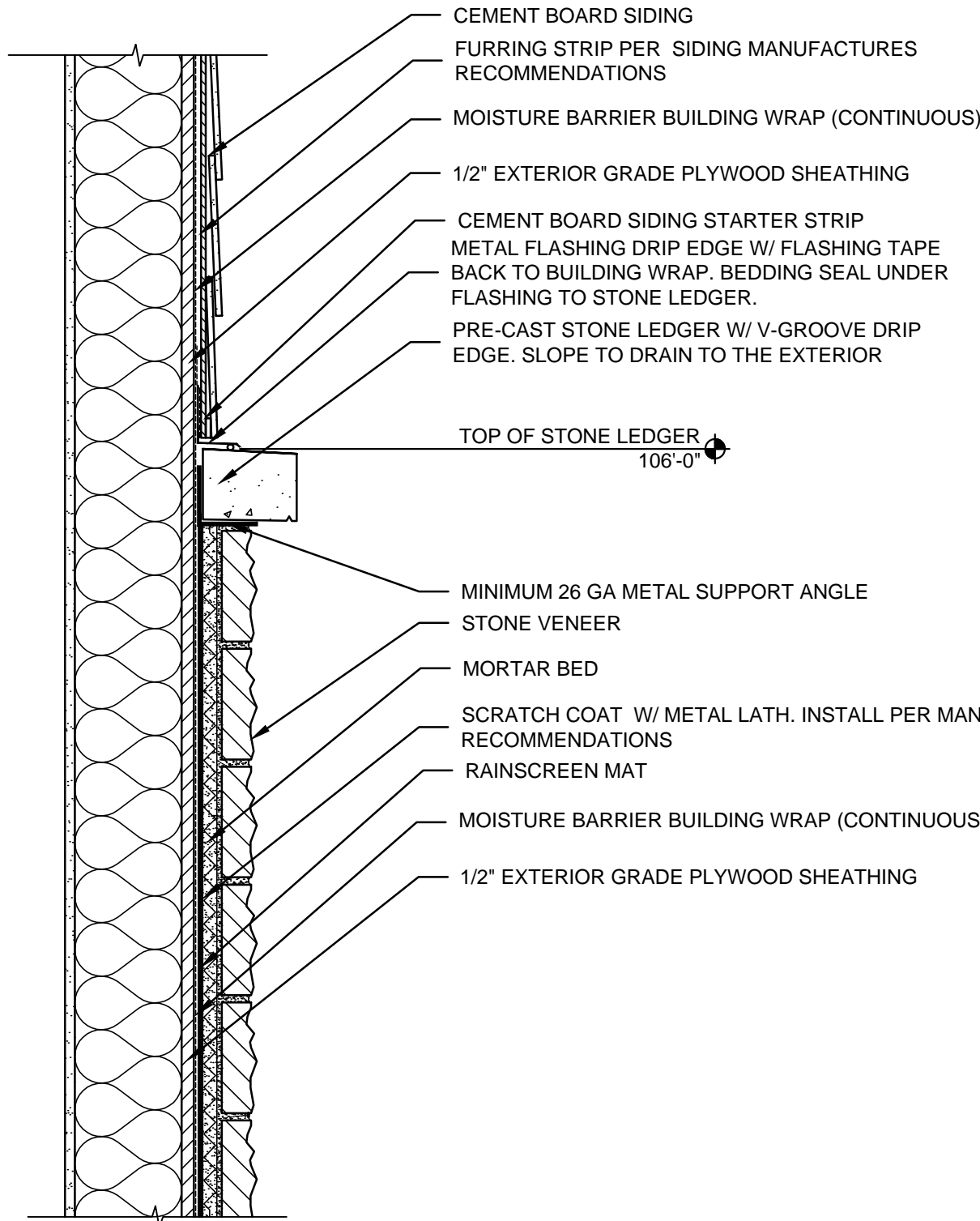
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NEW CONSTRUCTION FOR:
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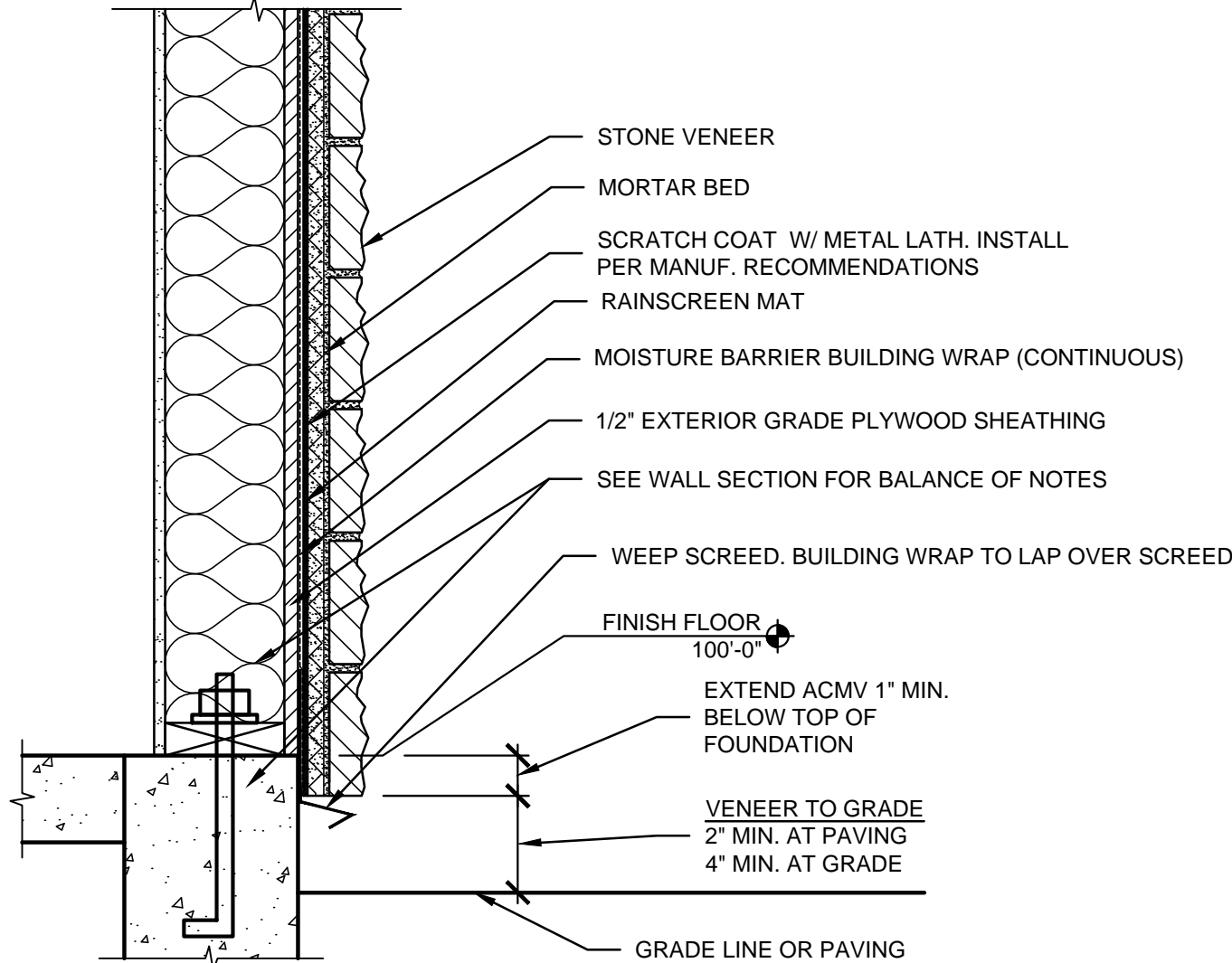
WALL SECTIONS

A5.03

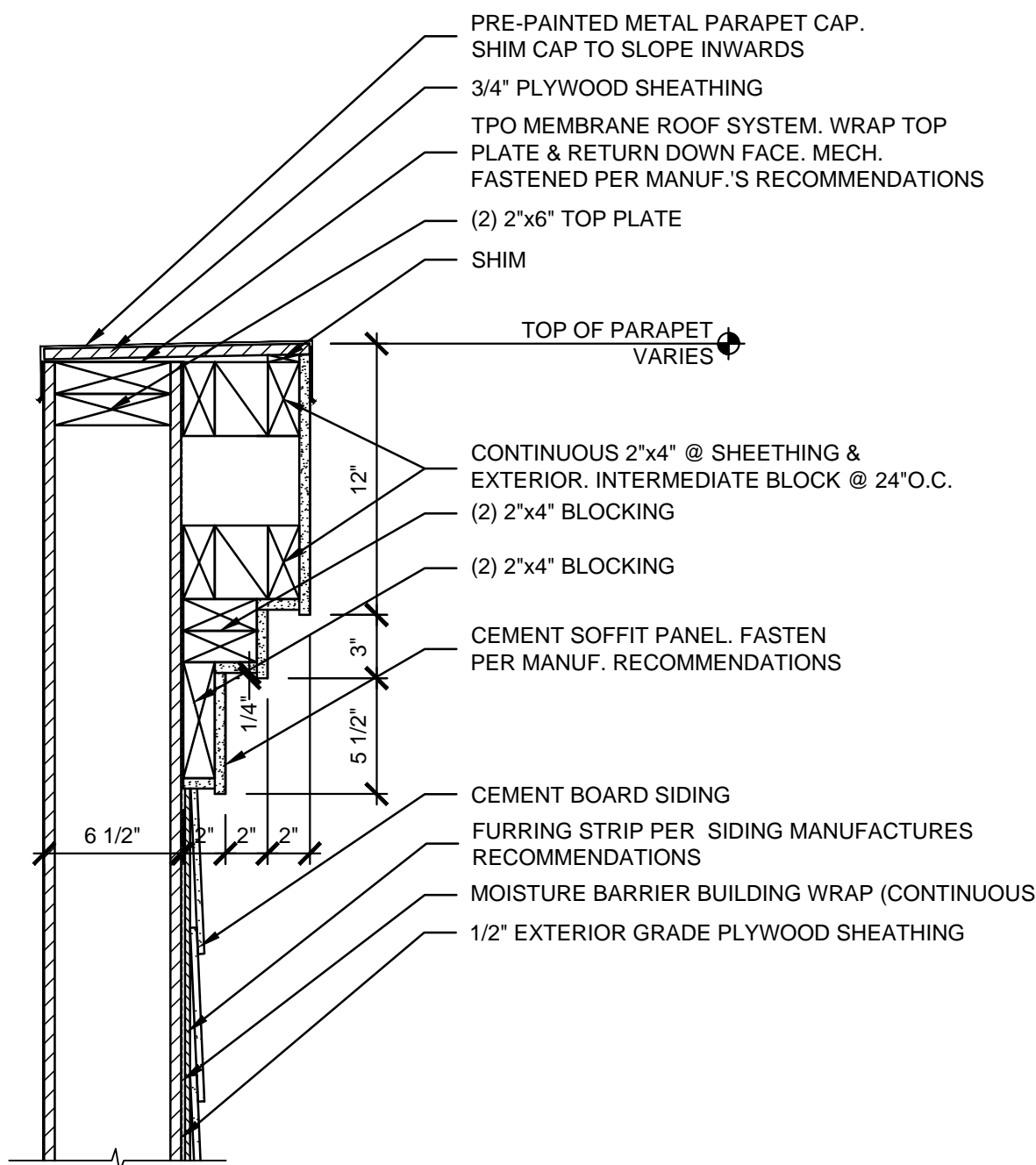
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01 STONE VENEER @ SIDING
SCALE: 1 1/2" = 1'-0"



02 STONE VENEER @ GRADE
SCALE: 1 1/2" = 1'-0"



03 PARAPET CAP DETAIL
SCALE: 1 1/2" = 1'-0"

PROJECT NO:
21-4188
DRAWN BY:
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DATE:
2021-12-02



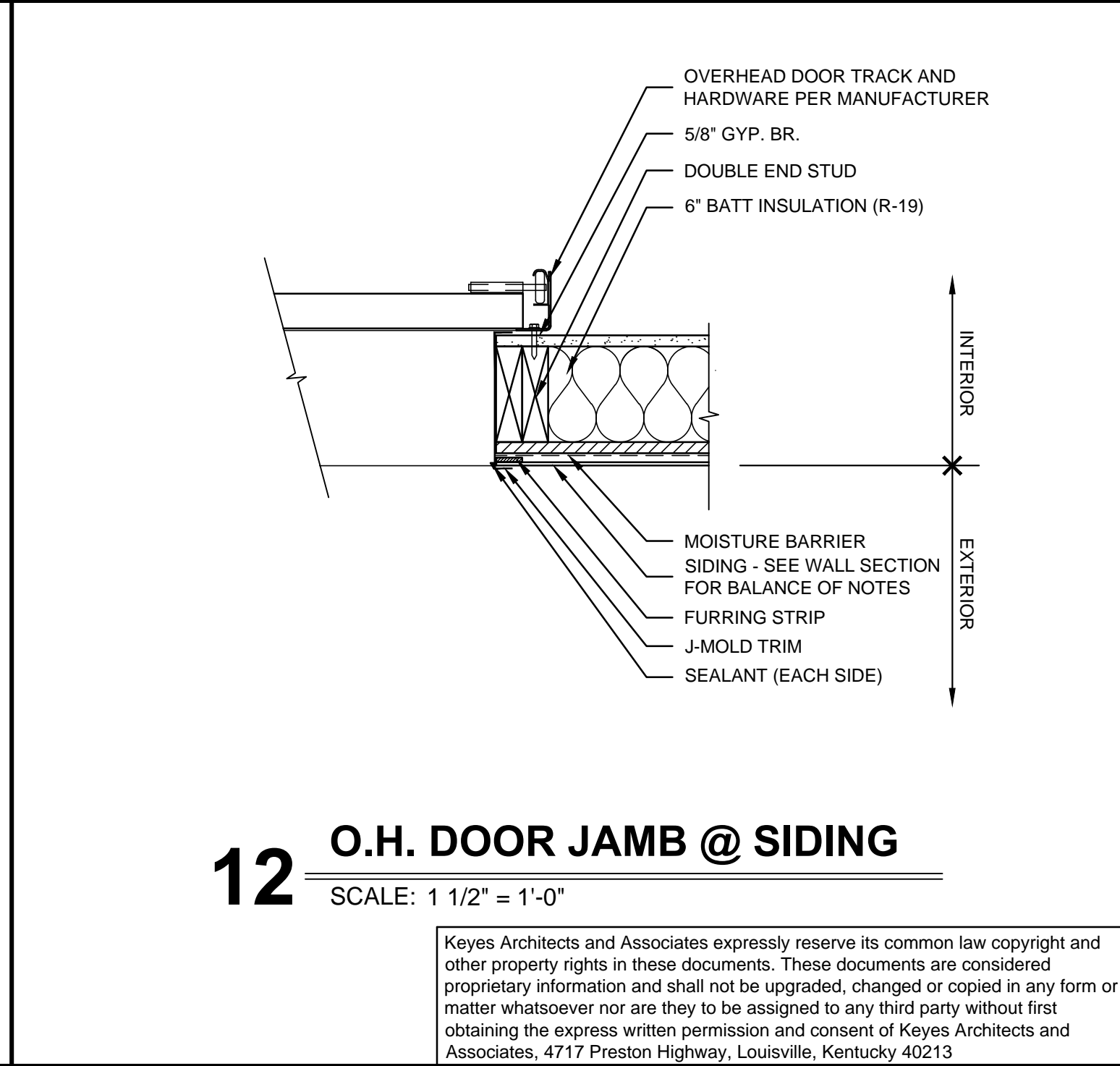
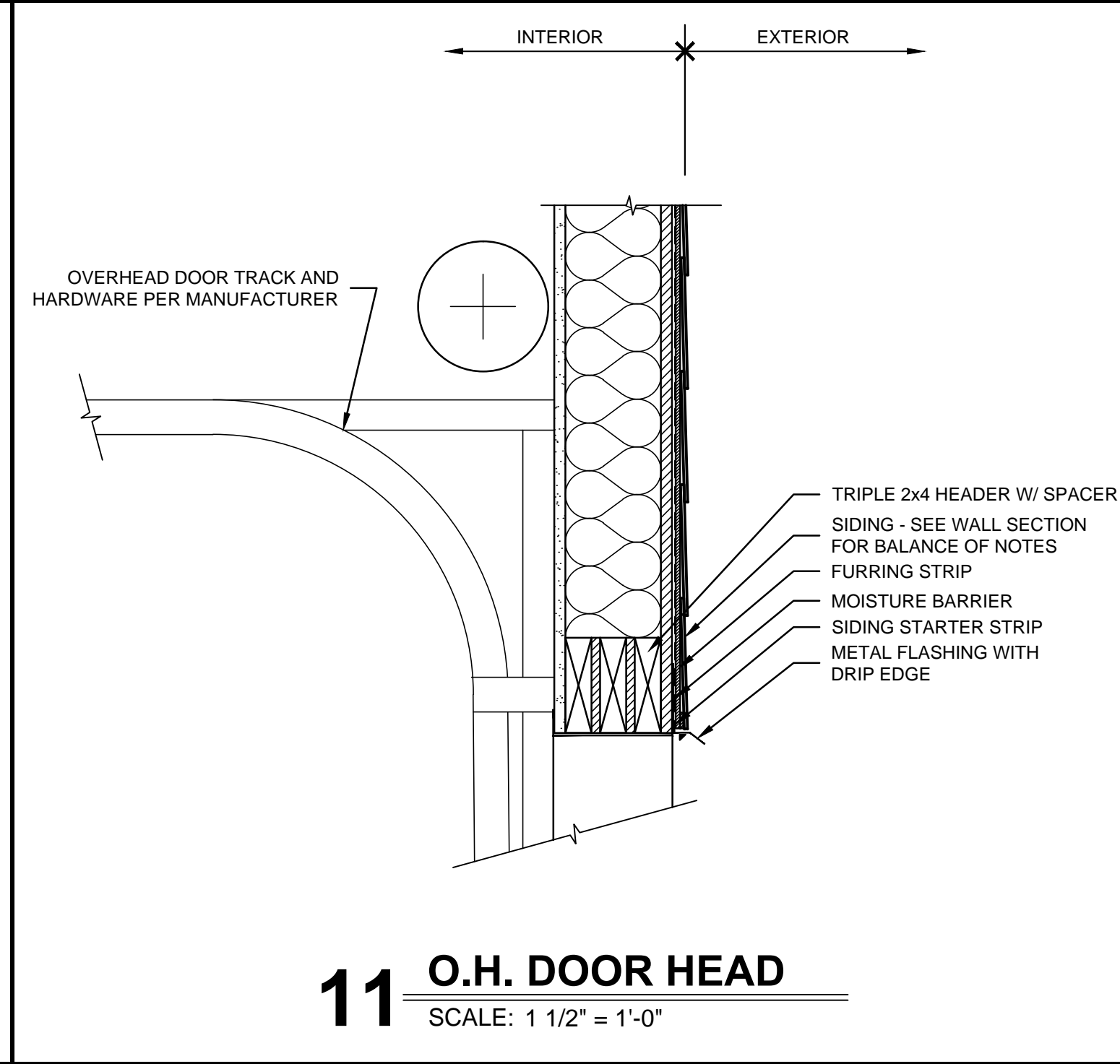
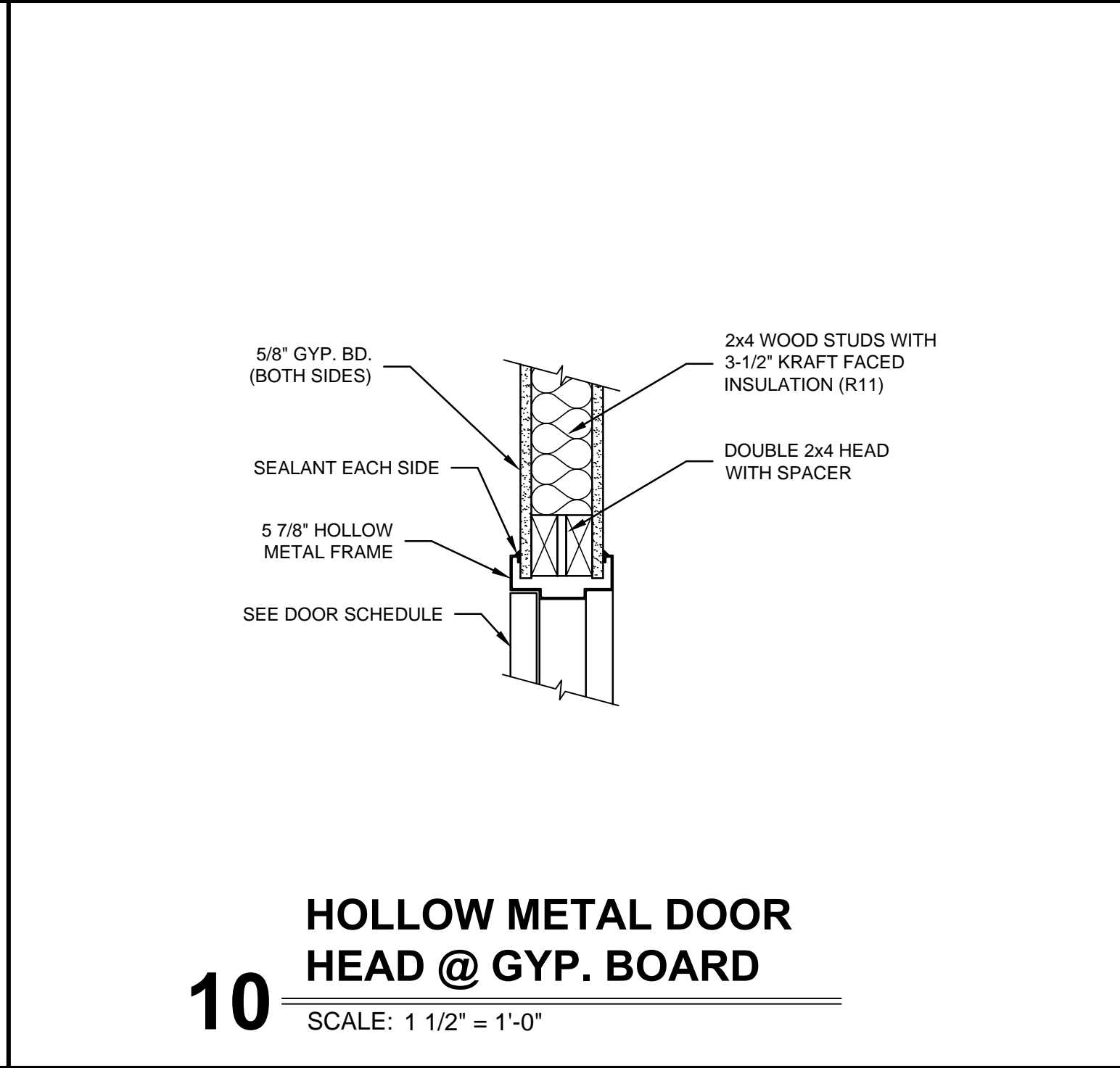
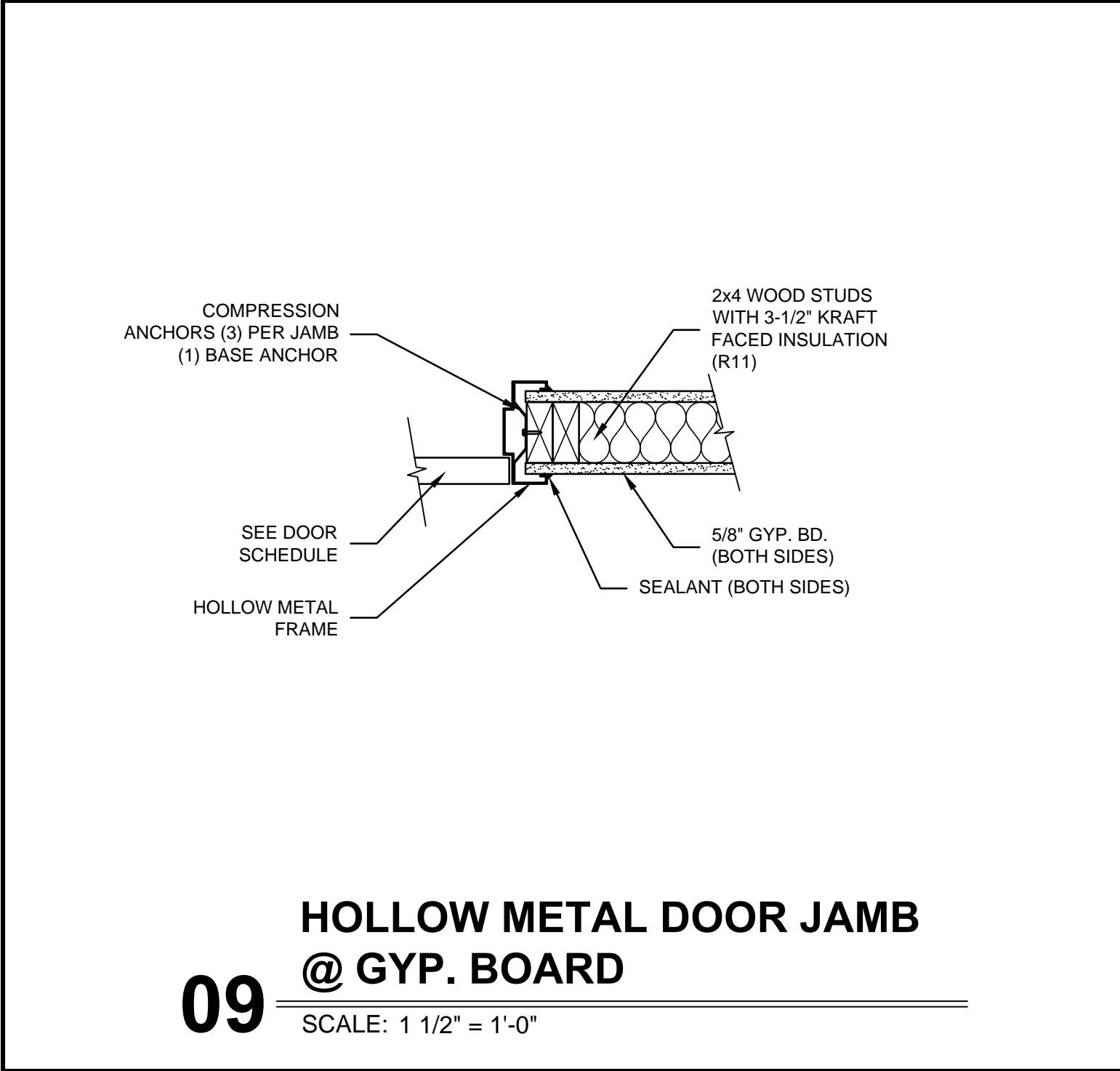
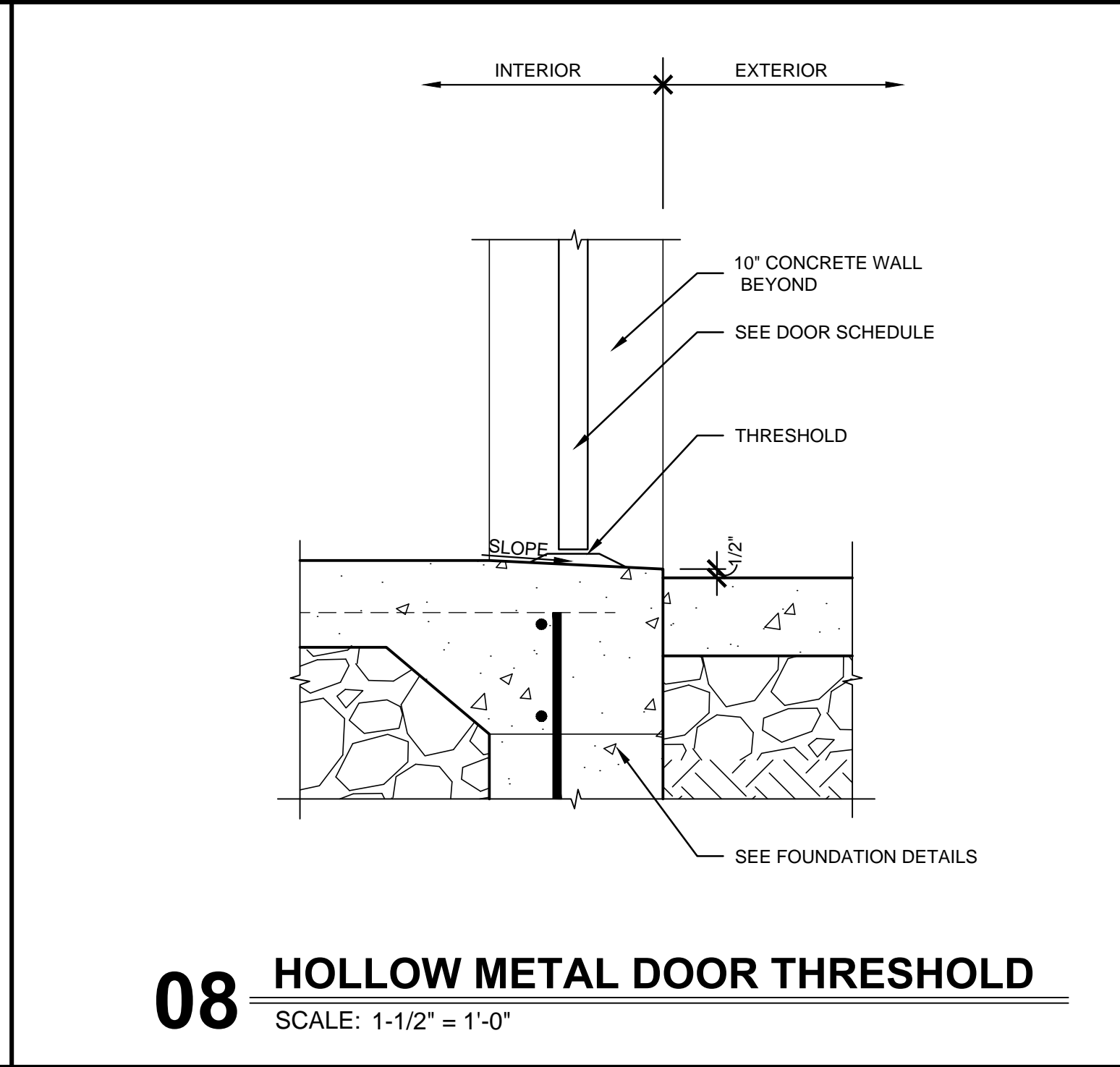
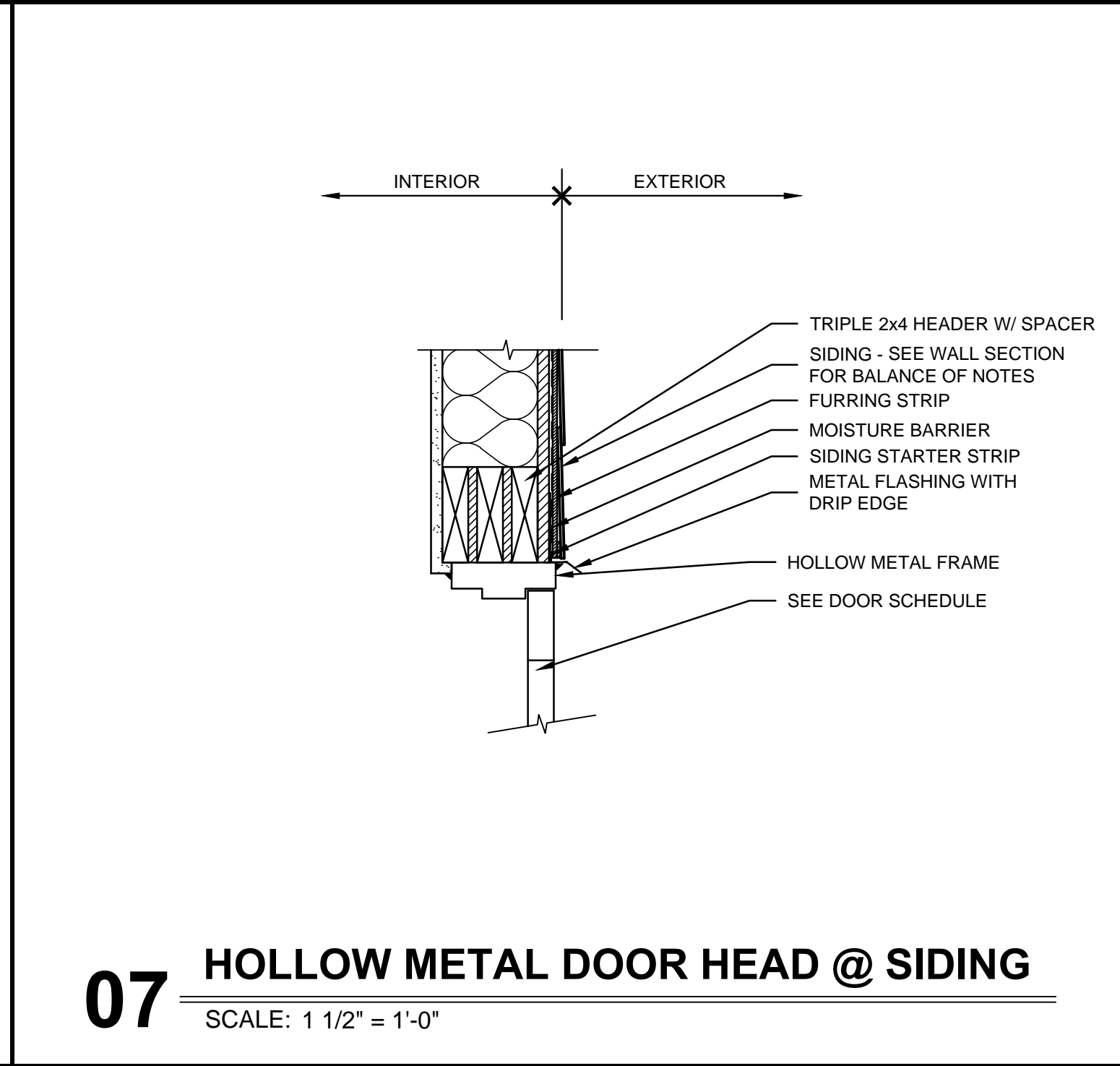
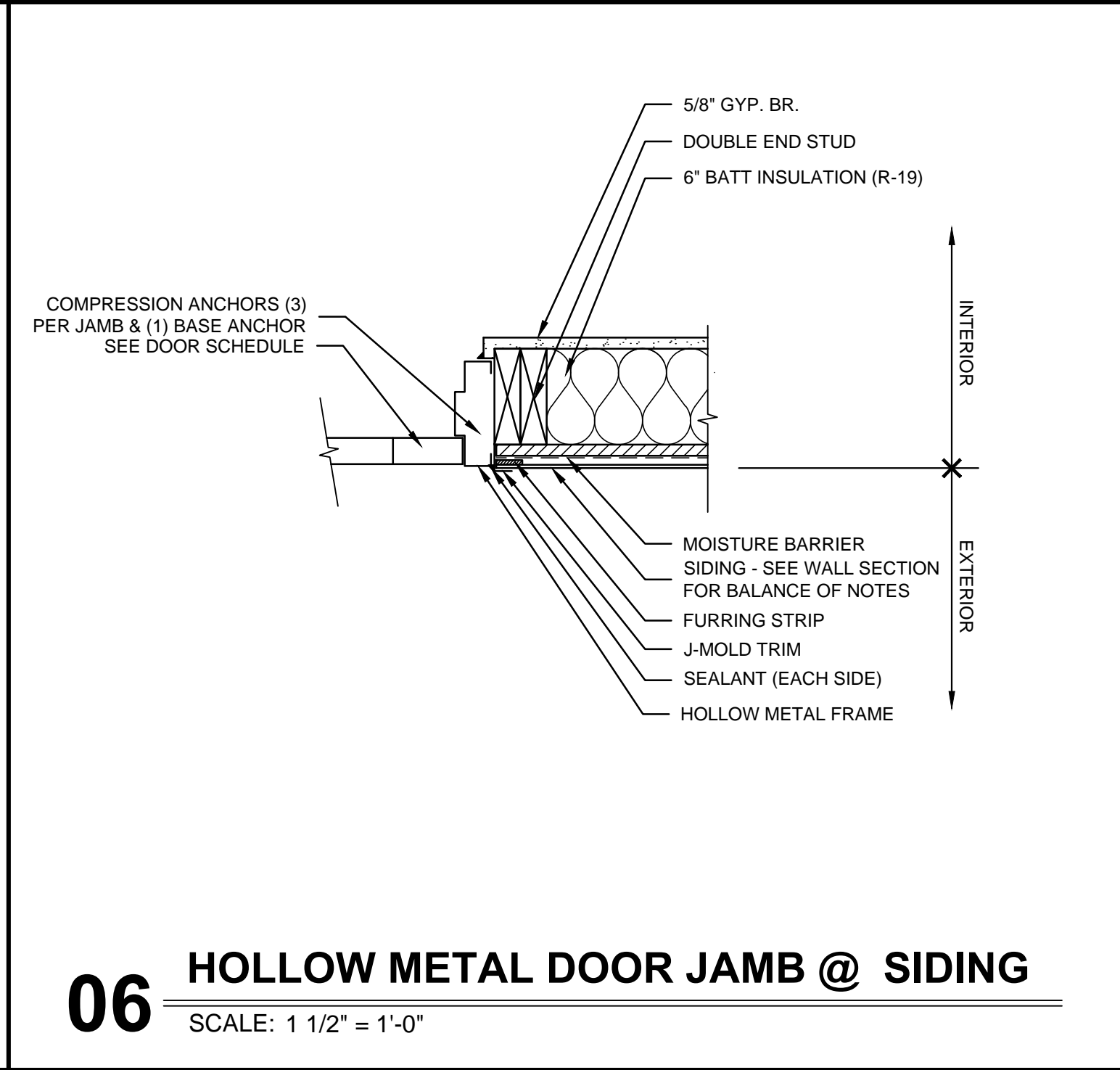
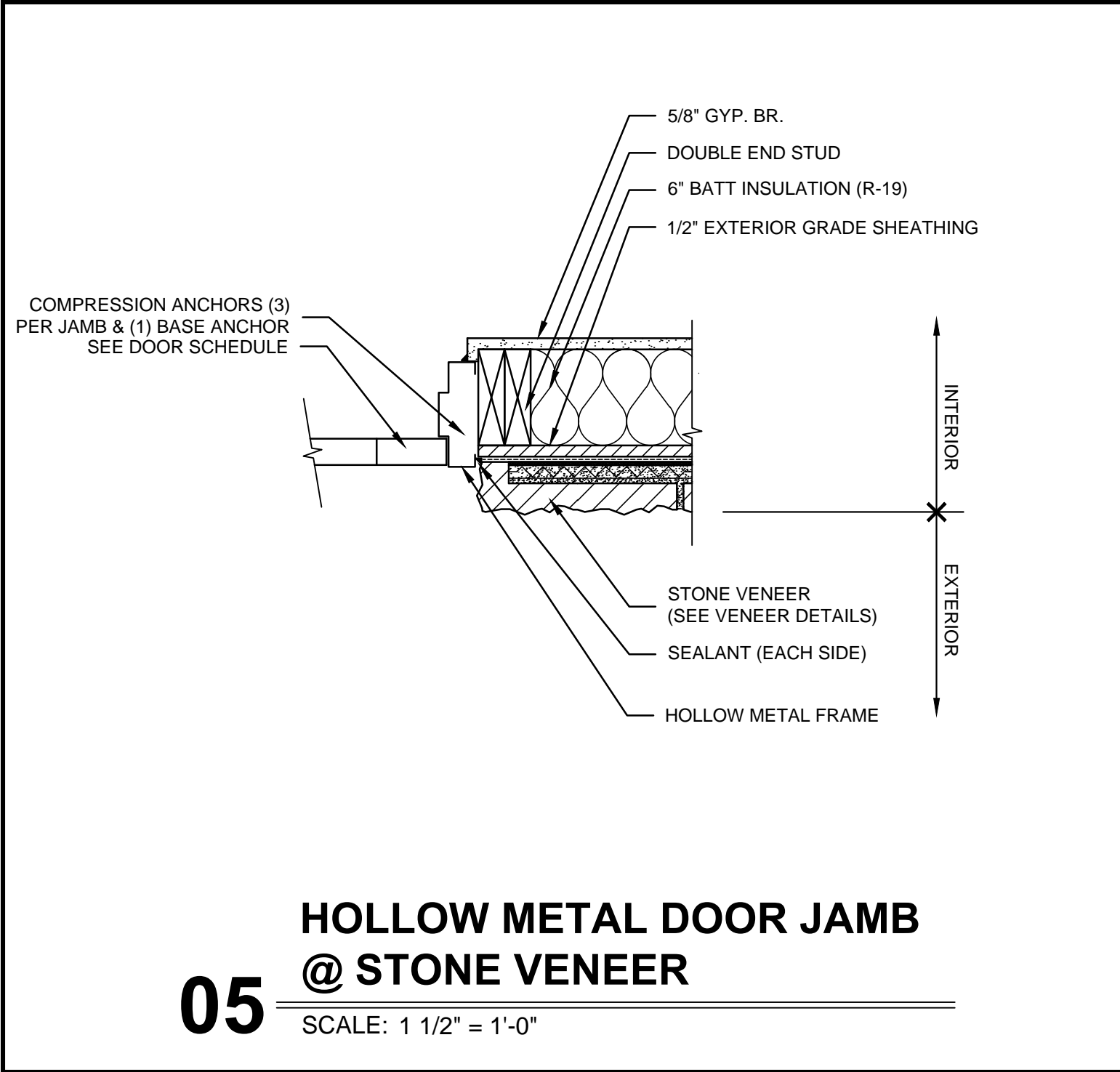
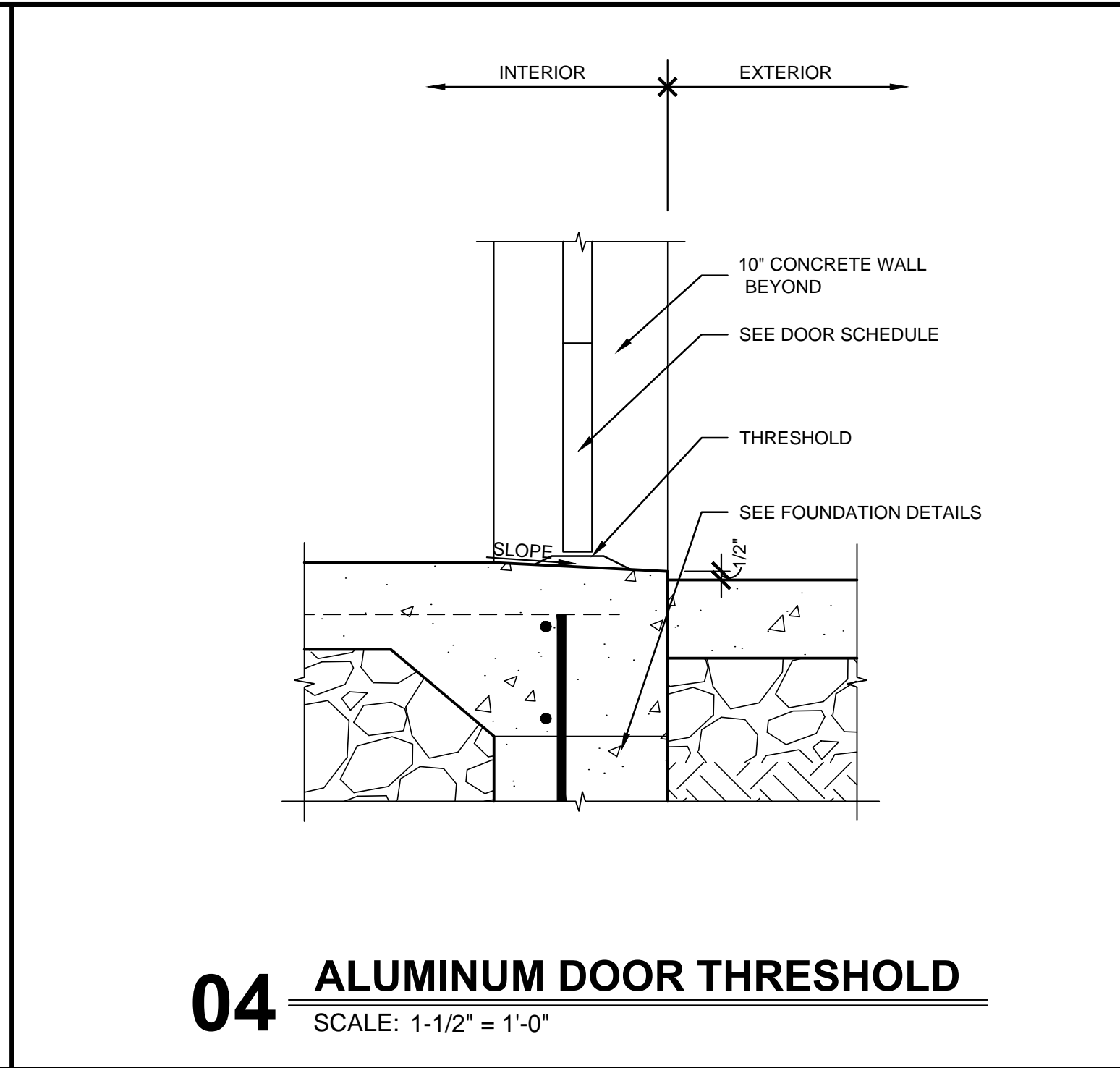
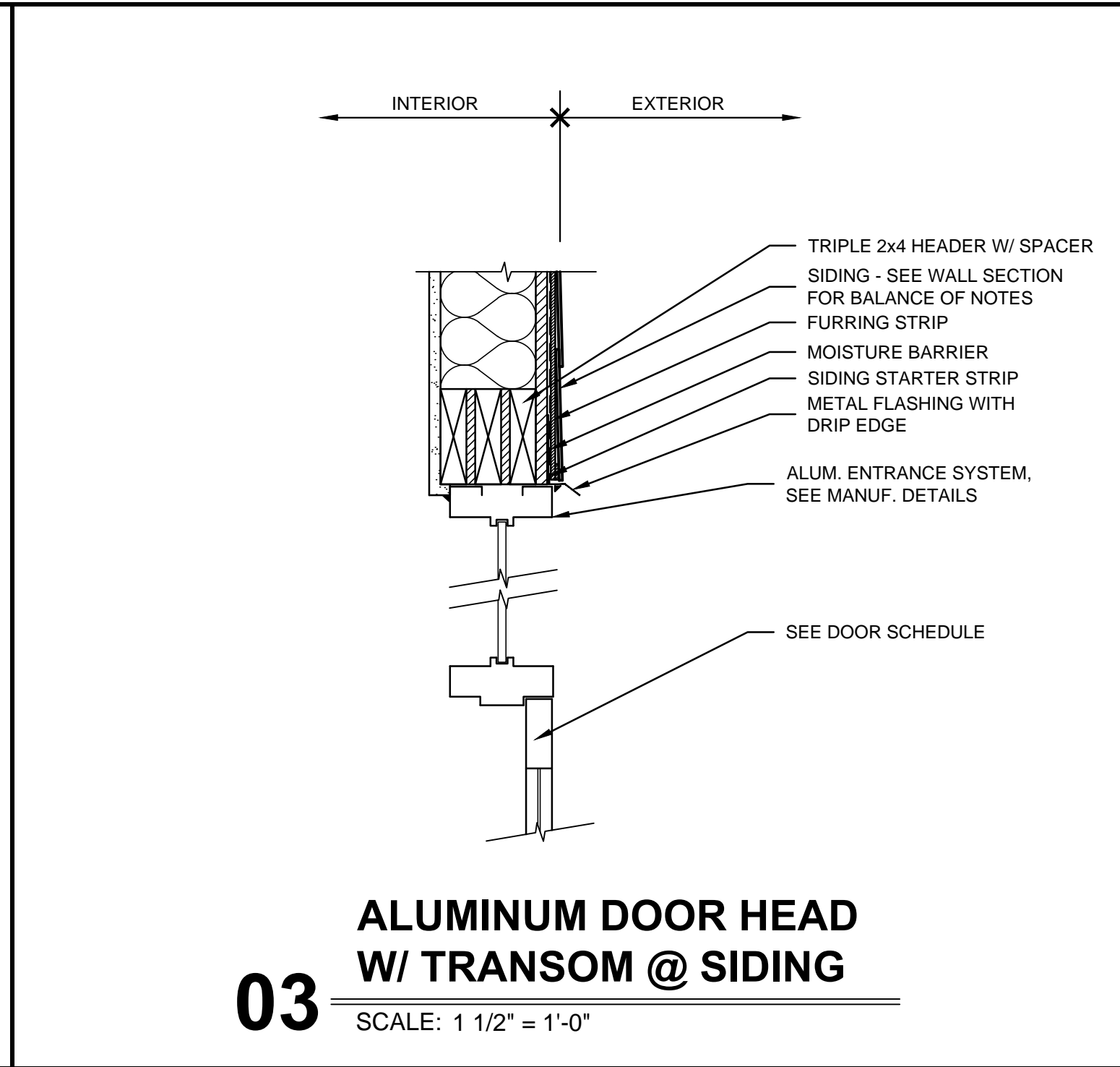
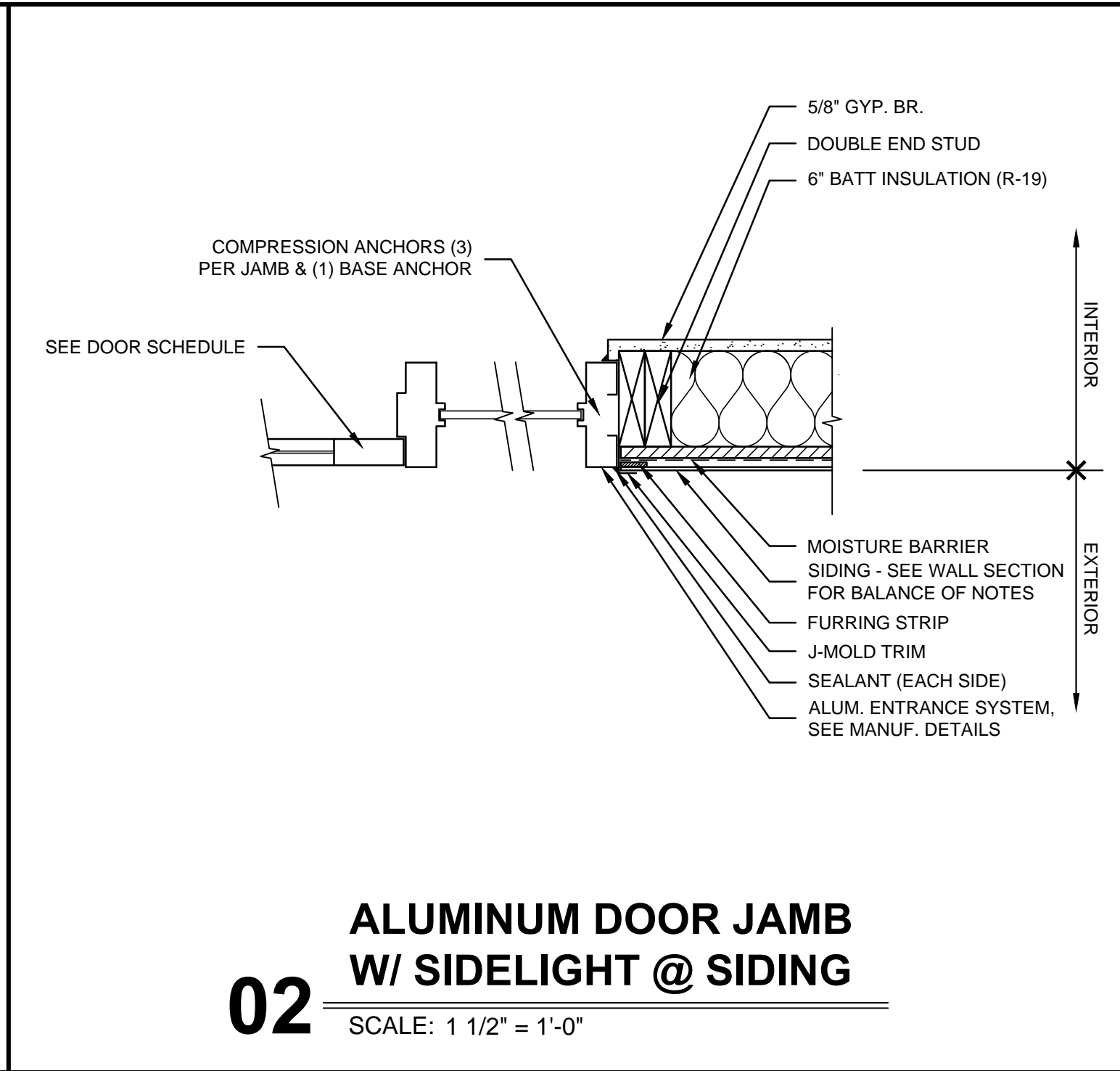
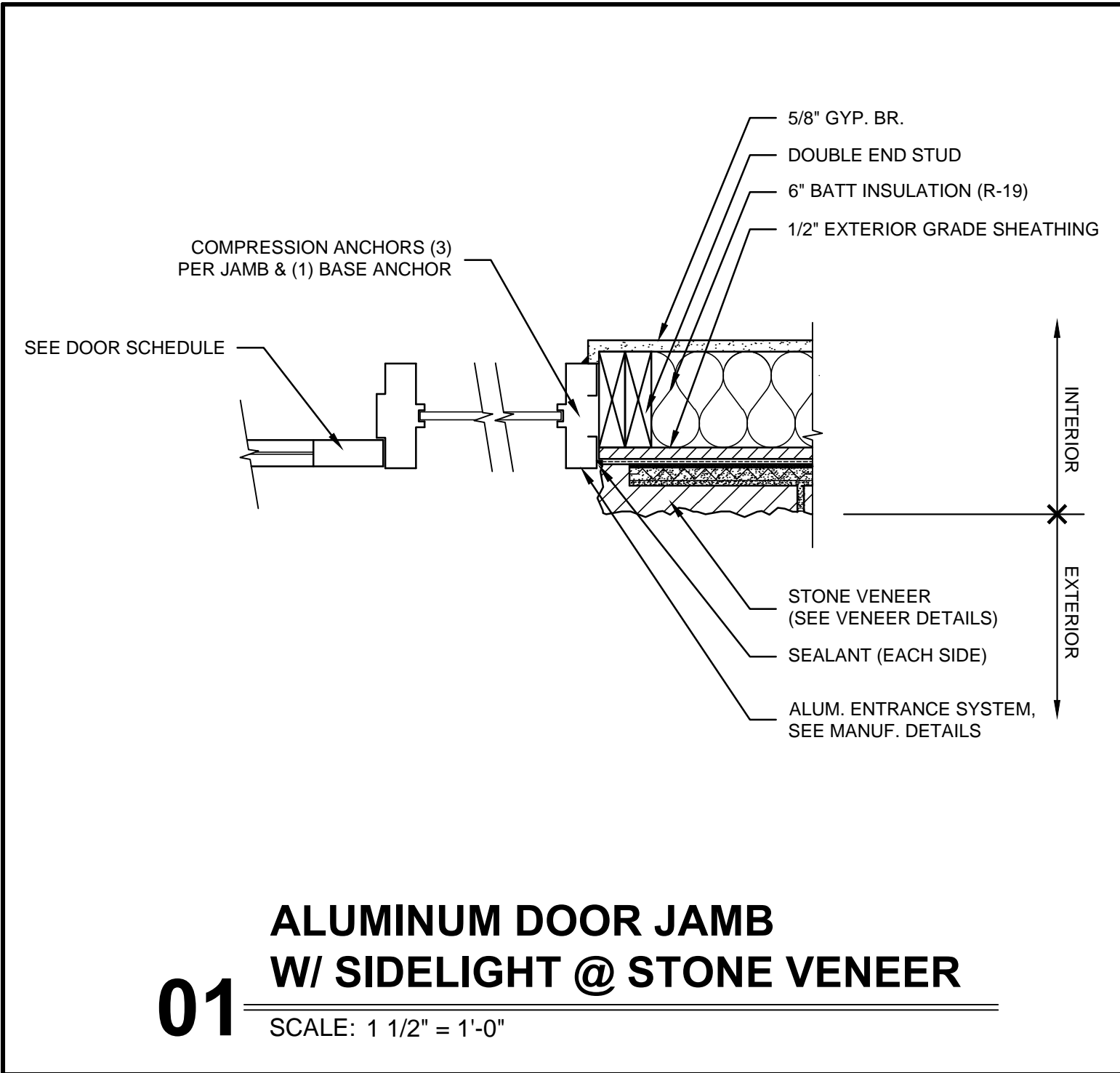
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NEW CONSTRUCTION FOR:
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WALL DETAILS
A5.04

PROJECT: PATEL LIQUOR STORE - FILE: A6.01 Door Details.dwg - DATE: Dec.02, 2021 1:58PM - BY:GARRETT HAMM



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PROJECT NO:
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DATE:
2021-12-02

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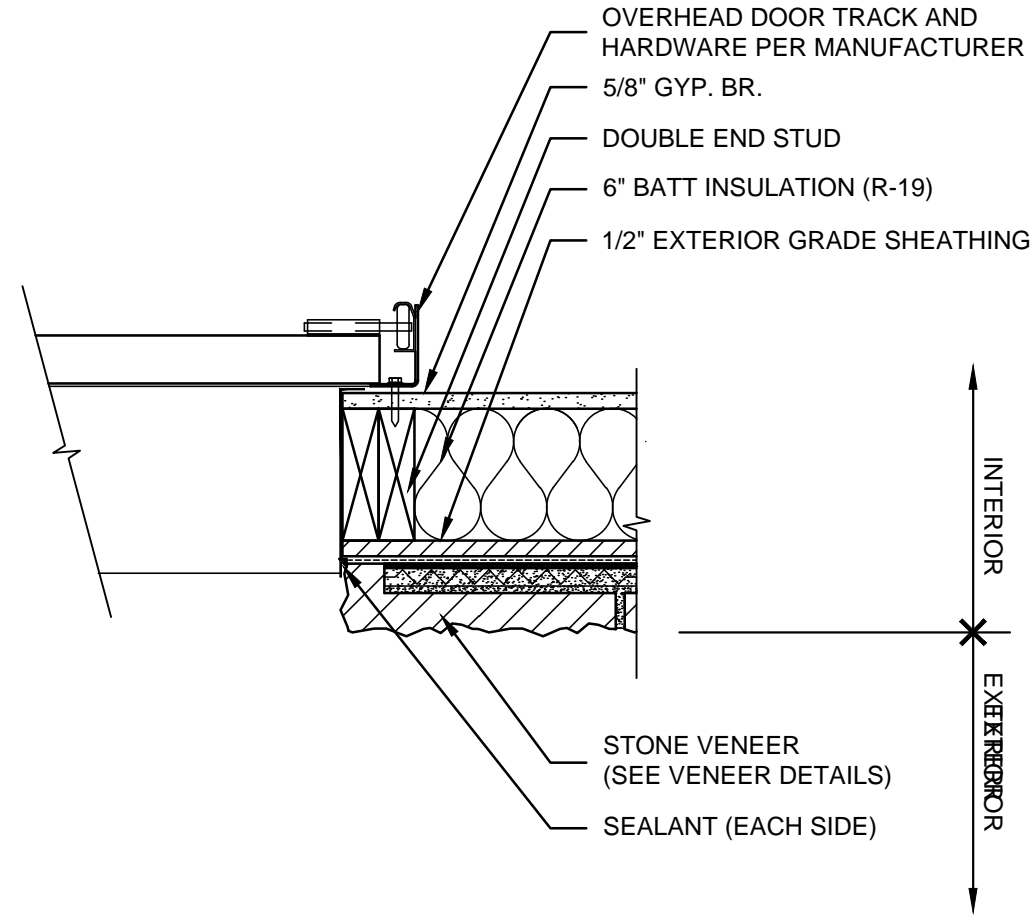
NEW CONSTRUCTION FOR:

PATEL LIQUOR STORE
NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

DOOR DETAILS

A6.01

PROJECT: PATEL LIQUOR STORE - FILE: A6.02 Door Details.dwg - DATE: Dec.02, 2021 1:58PM - BY:GARRETT HAMM



01 O.H. DOOR JAMB @ STONE VENEER
SCALE: 1 1/2" = 1'-0"

PROJECT NO:
21-4188
DRAWN BY:
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DATE:
2021-12-02



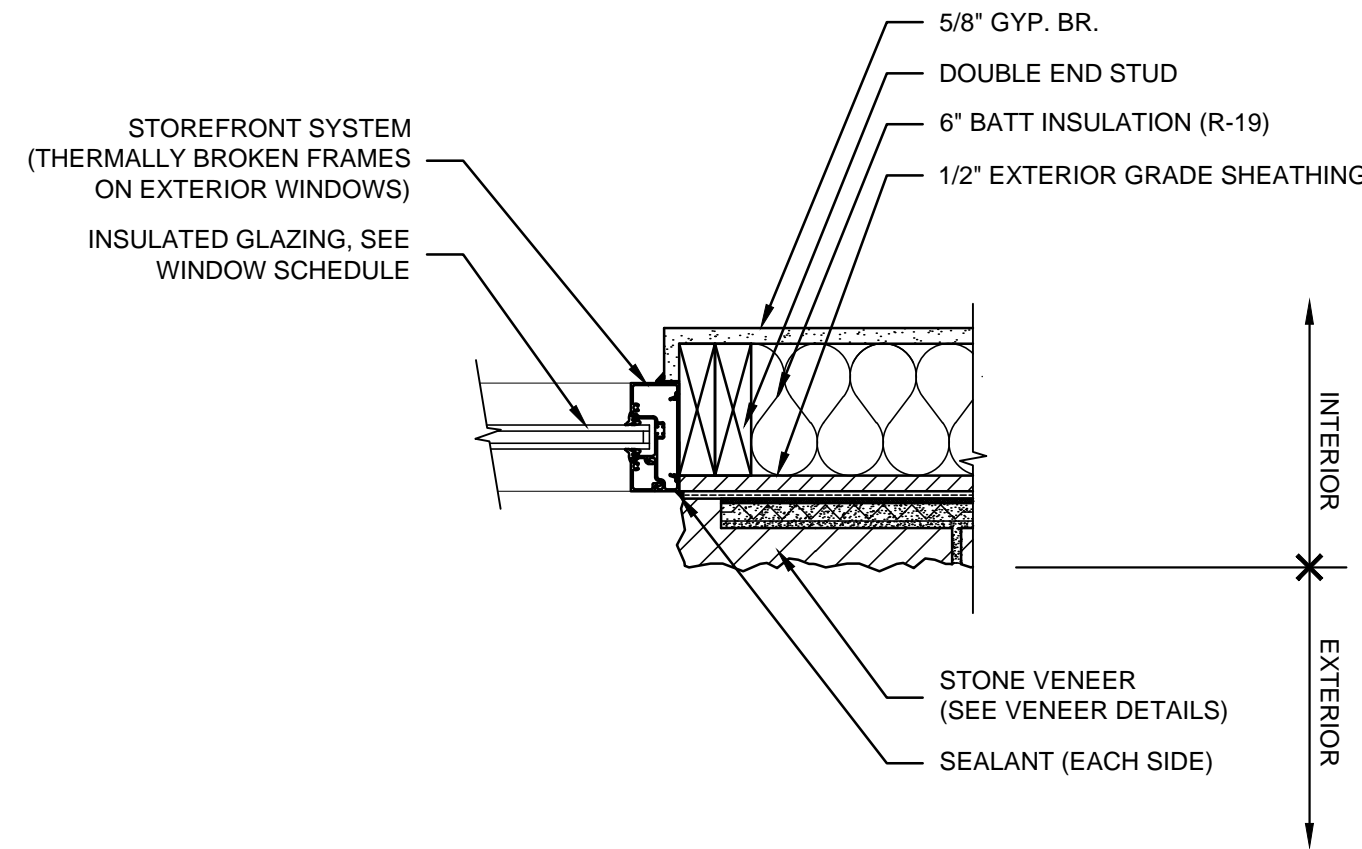
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NEW CONSTRUCTION FOR:
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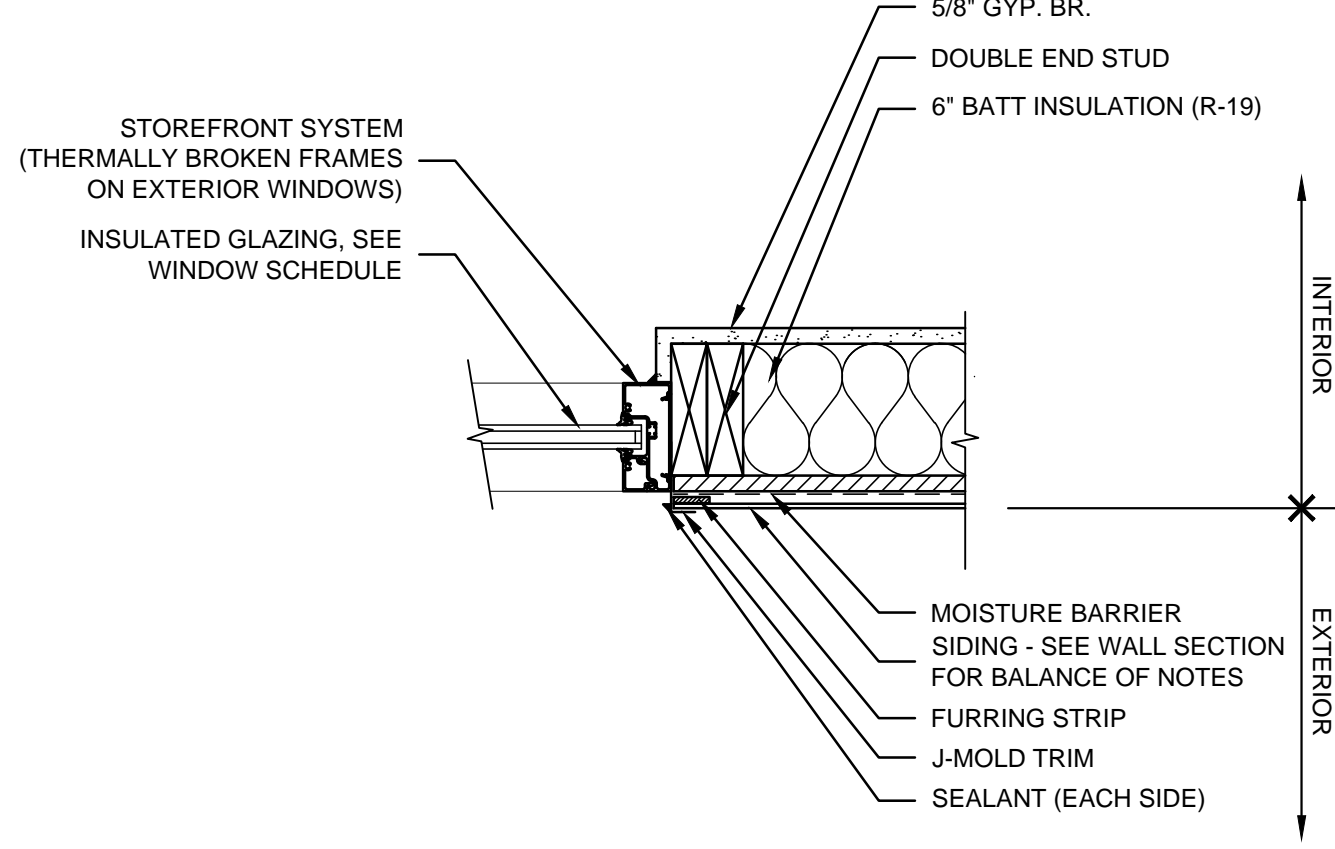
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DOOR DETAILS
A6.02

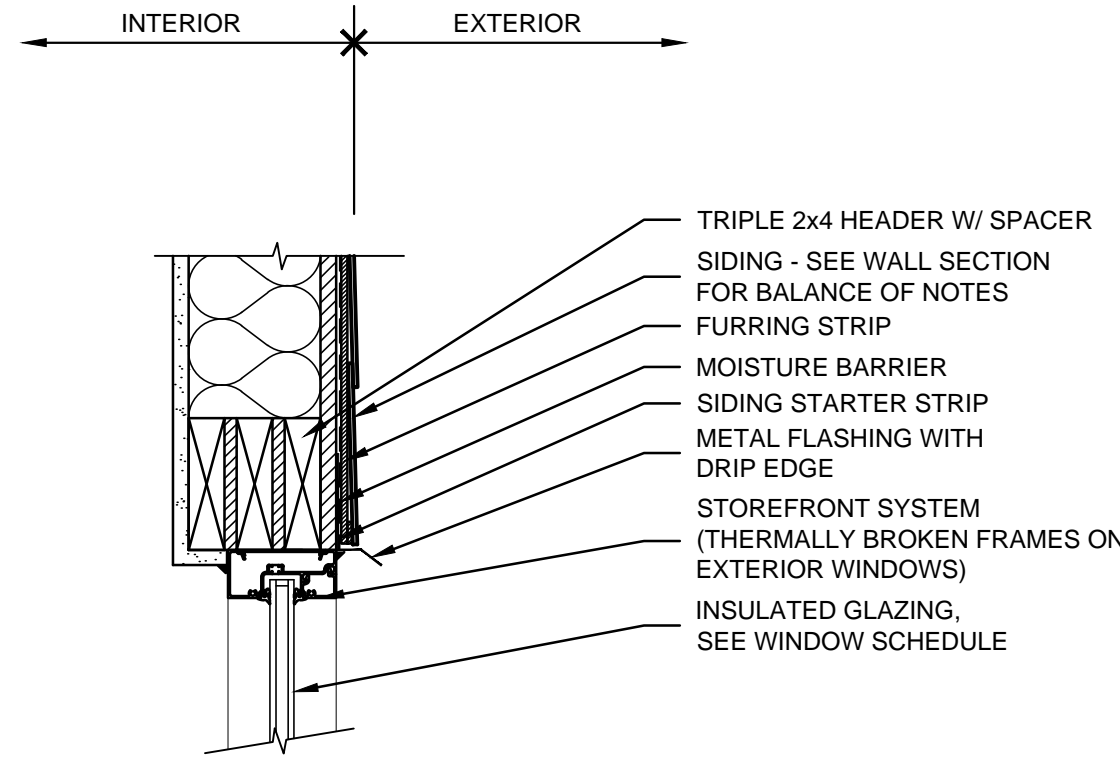
PROJECT: PATEL LIQUOR STORE - FILE: A6.03 Window Details.dwg - DATE: Dec 02, 2021 1:58PM - BY: GARRETT HAMM



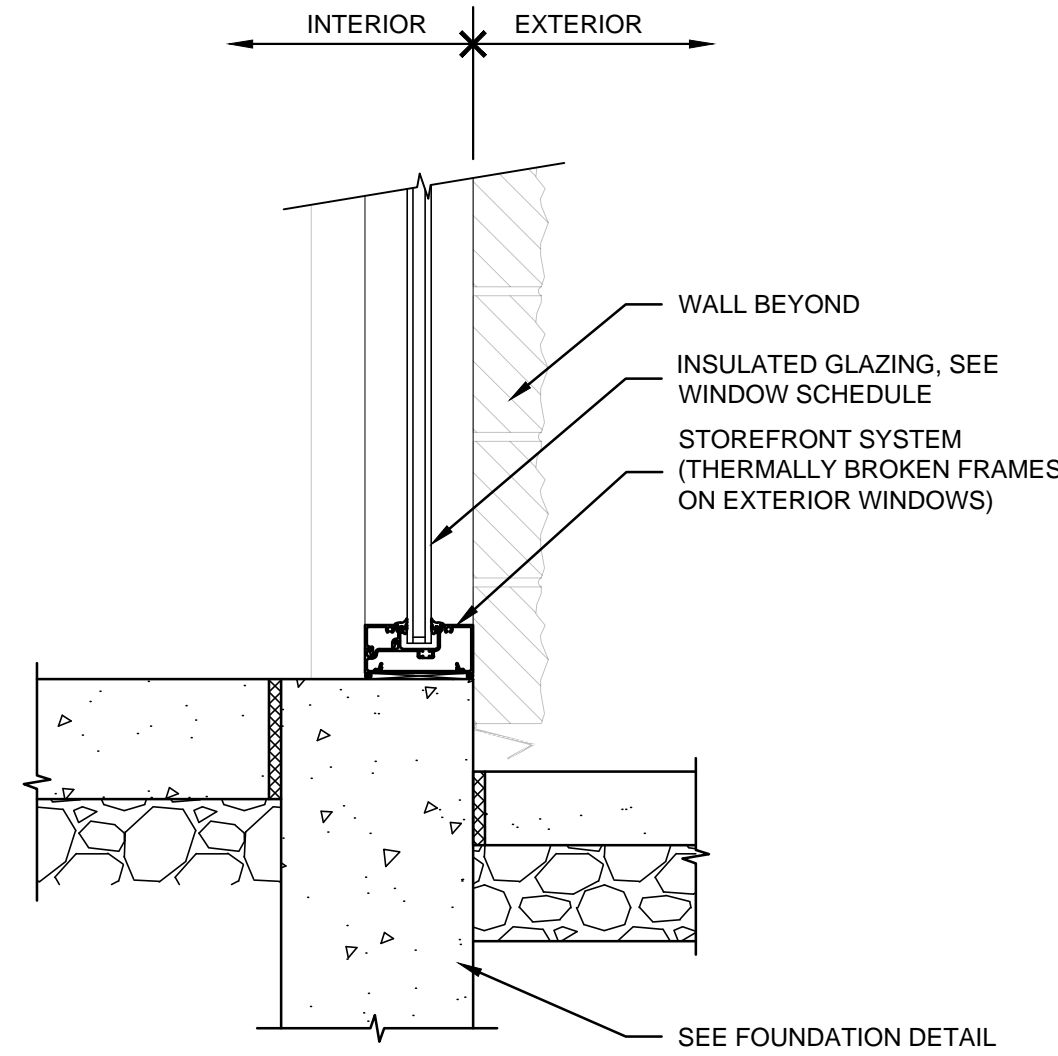
01 STOREFRONT JAMB @ STONE VENEER
SCALE: 1 1/2" = 1'-0"



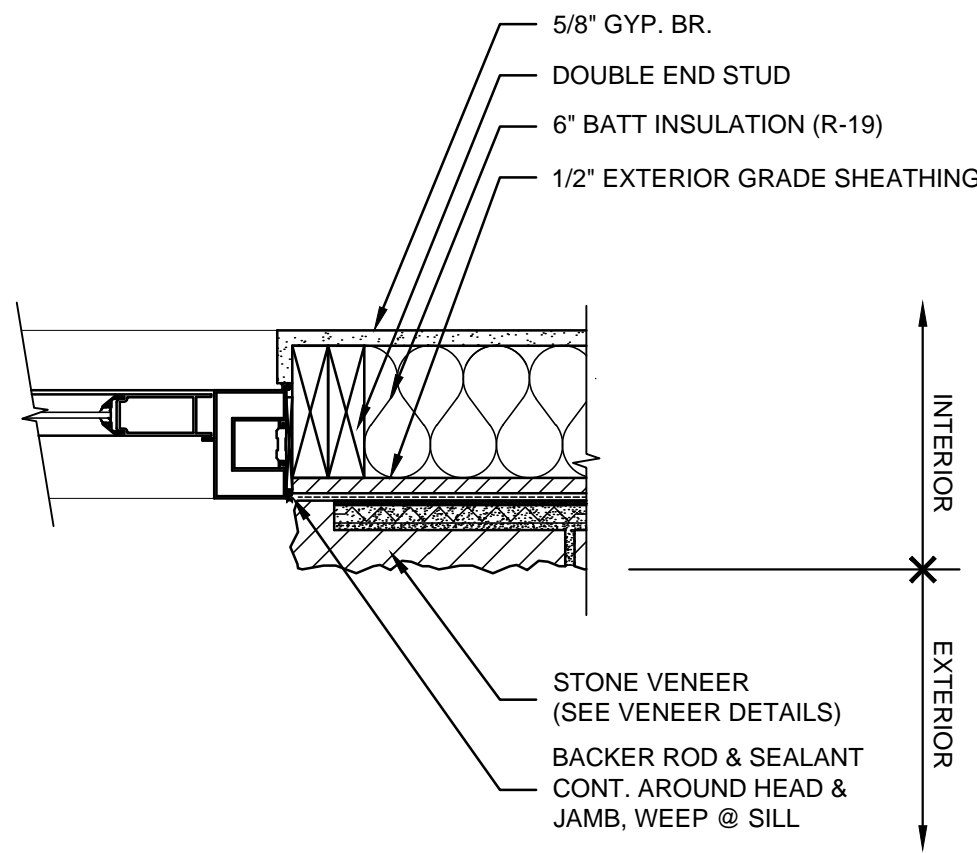
02 STOREFRONT JAMB @ SIDING
SCALE: 1 1/2" = 1'-0"



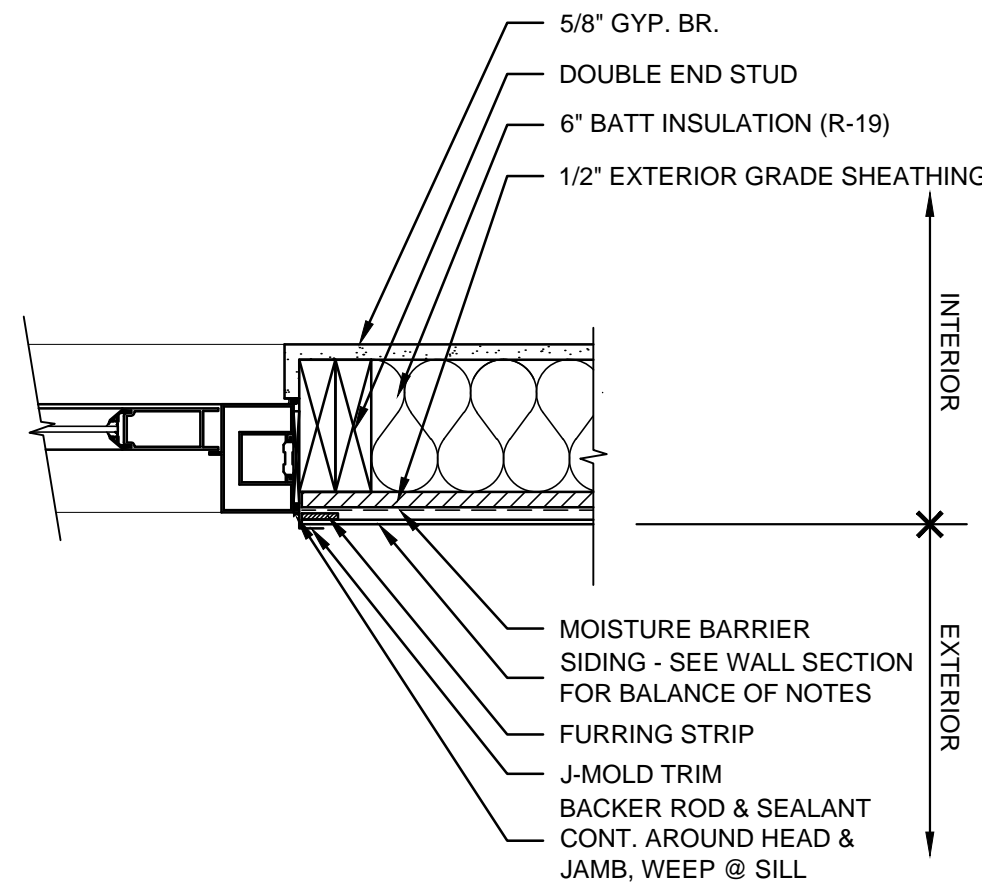
03 STOREFRONT HEAD @ SIDING
SCALE: 1 1/2" = 1'-0"



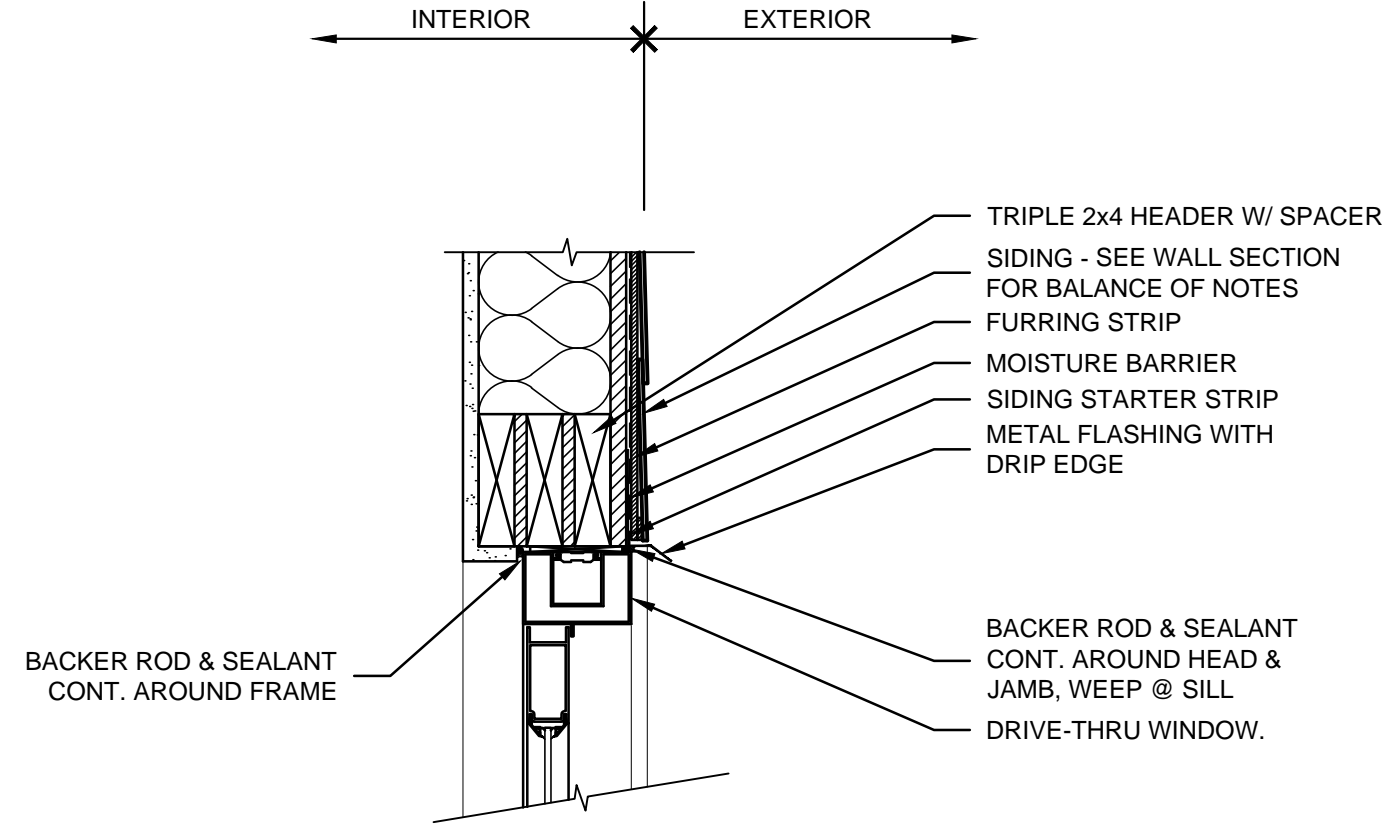
04 STOREFRONT SILL
SCALE: 1 1/2" = 1'-0"



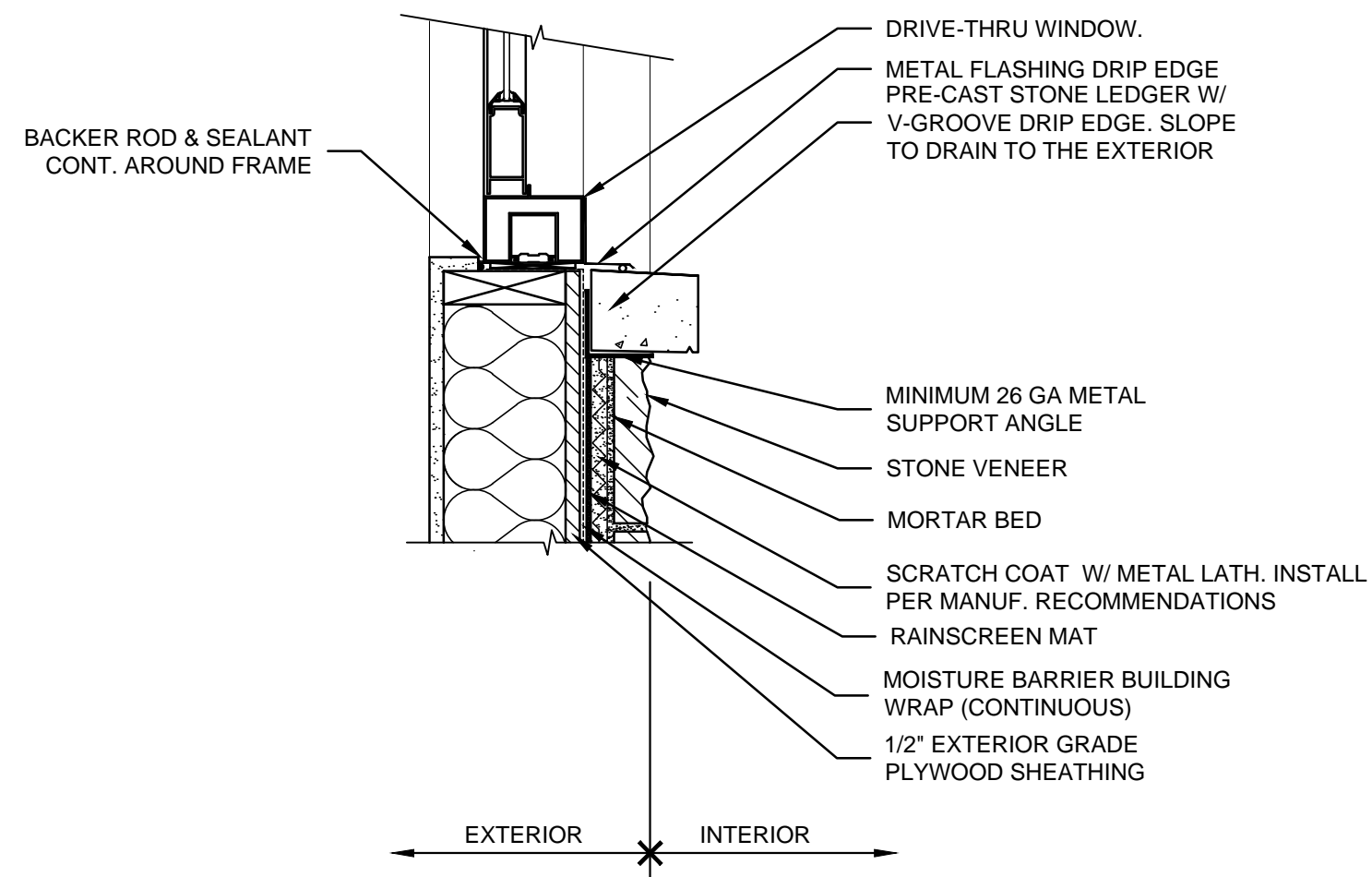
05 DRIVE-THRU WINDOW JAMB @ STONE VENEER
SCALE: 1 1/2" = 1'-0"



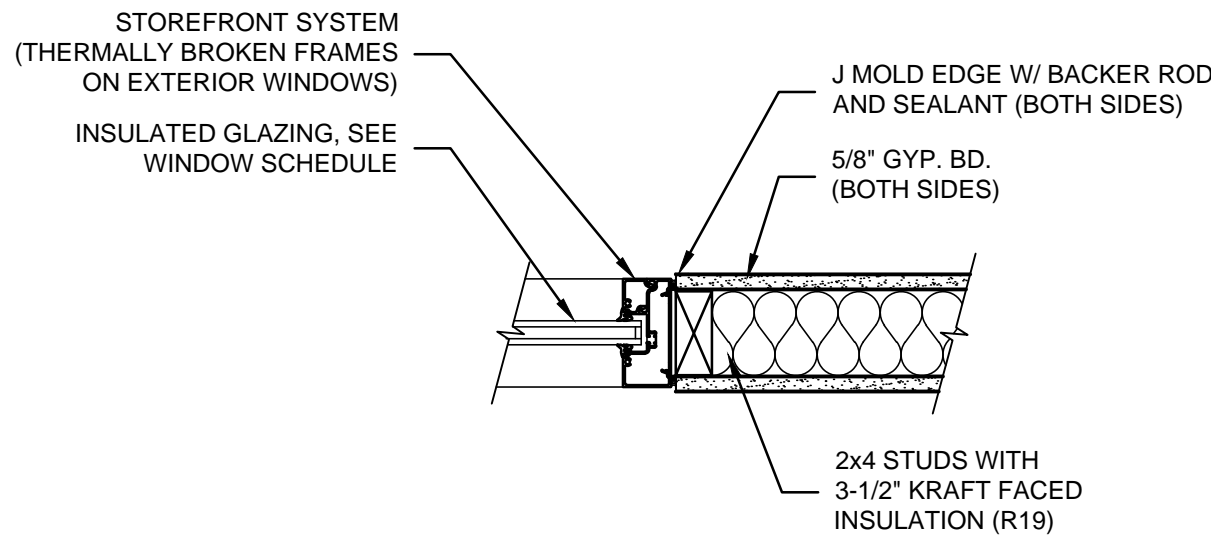
06 DRIVE-THRU WINDOW JAMB @ SIDING
SCALE: 1 1/2" = 1'-0"



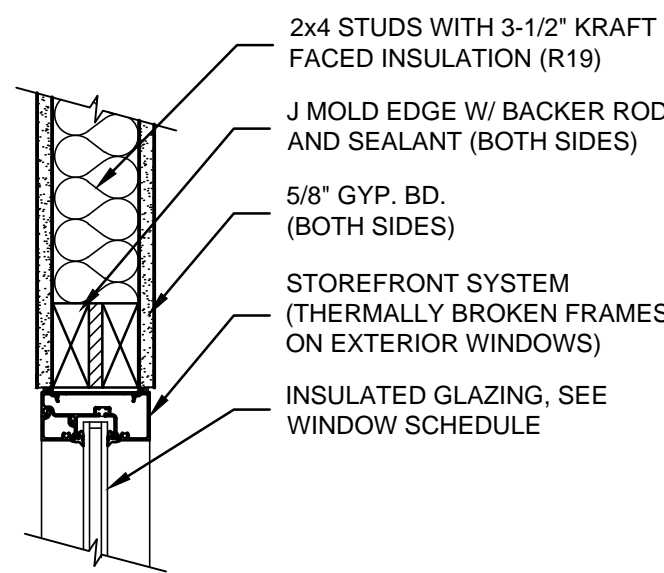
07 DRIVE-THRU WINDOW HEAD @ SIDING
SCALE: 1 1/2" = 1'-0"



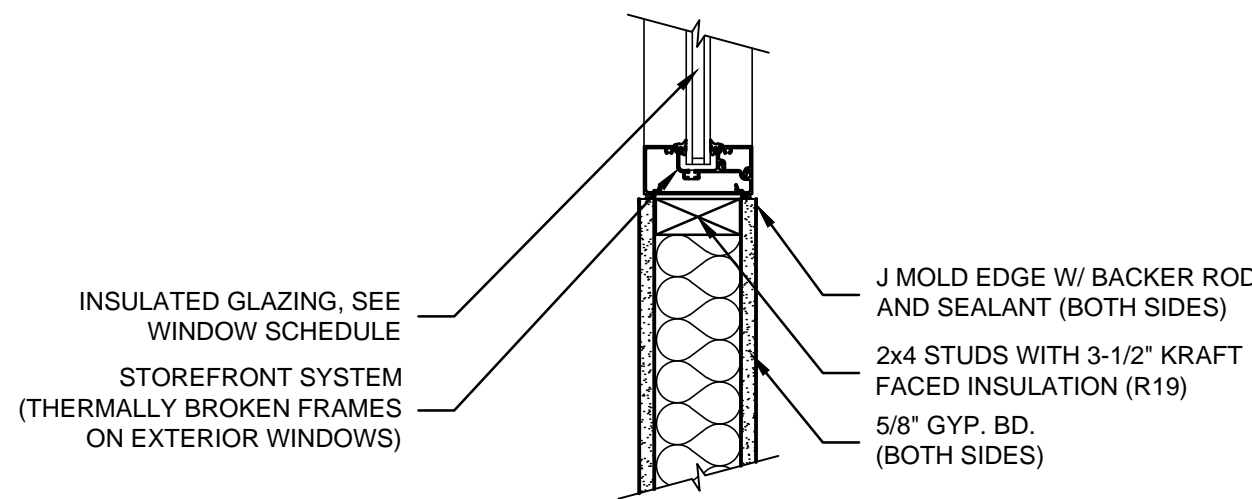
08 DRIVE-THRU WINDOW SILL @ STONE VENEER
SCALE: 1 1/2" = 1'-0"



09 ALUMINUM WINDOW JAMB @ GYP. BOARD
SCALE: 1 1/2" = 1'-0"

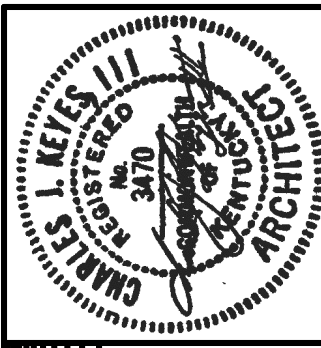


10 ALUMINUM WINDOW HEAD @ GYP. BOARD
SCALE: 1 1/2" = 1'-0"



11 ALUMINUM WINDOW SILL @ GYP. BOARD
SCALE: 1 1/2" = 1'-0"

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NEW CONSTRUCTION FOR:

PATEL LIQUOR STORE
NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

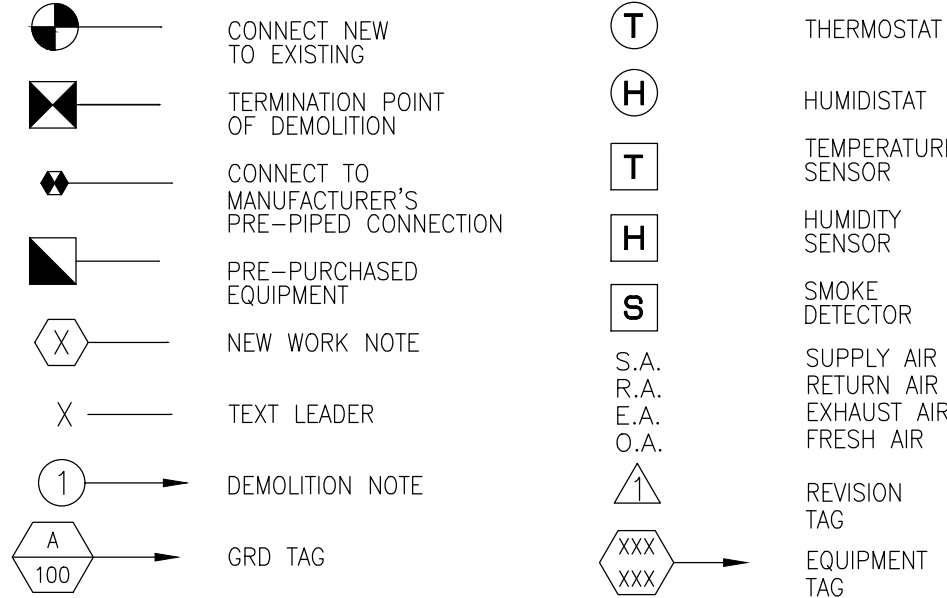
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WINDOW DETAILS

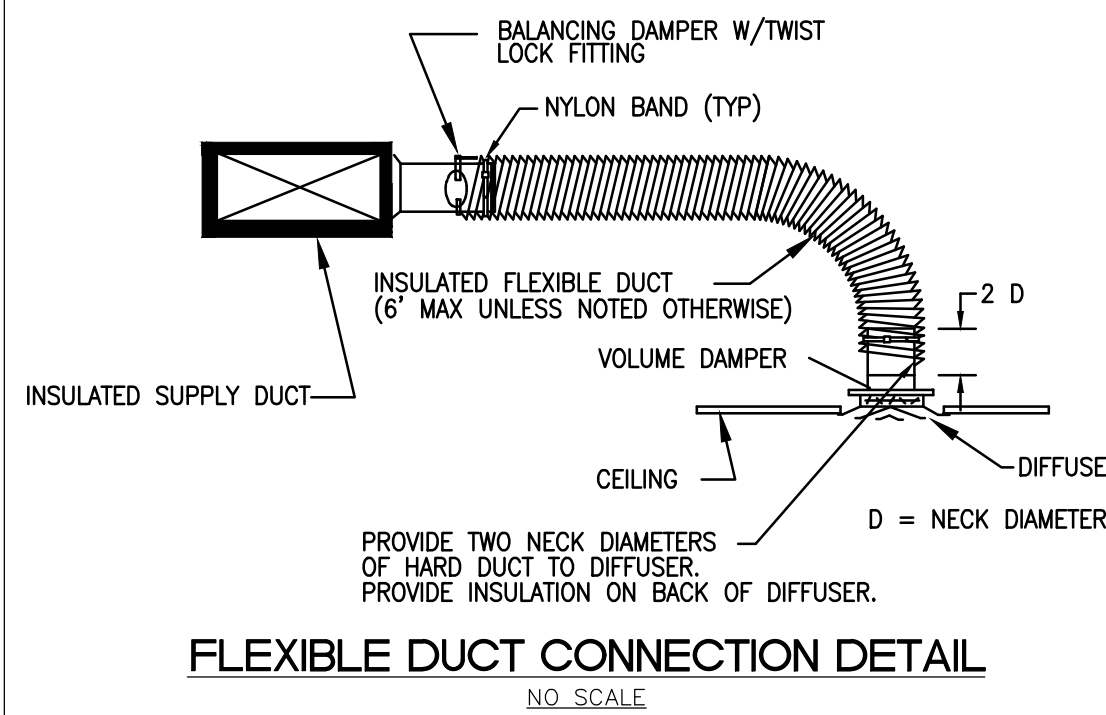
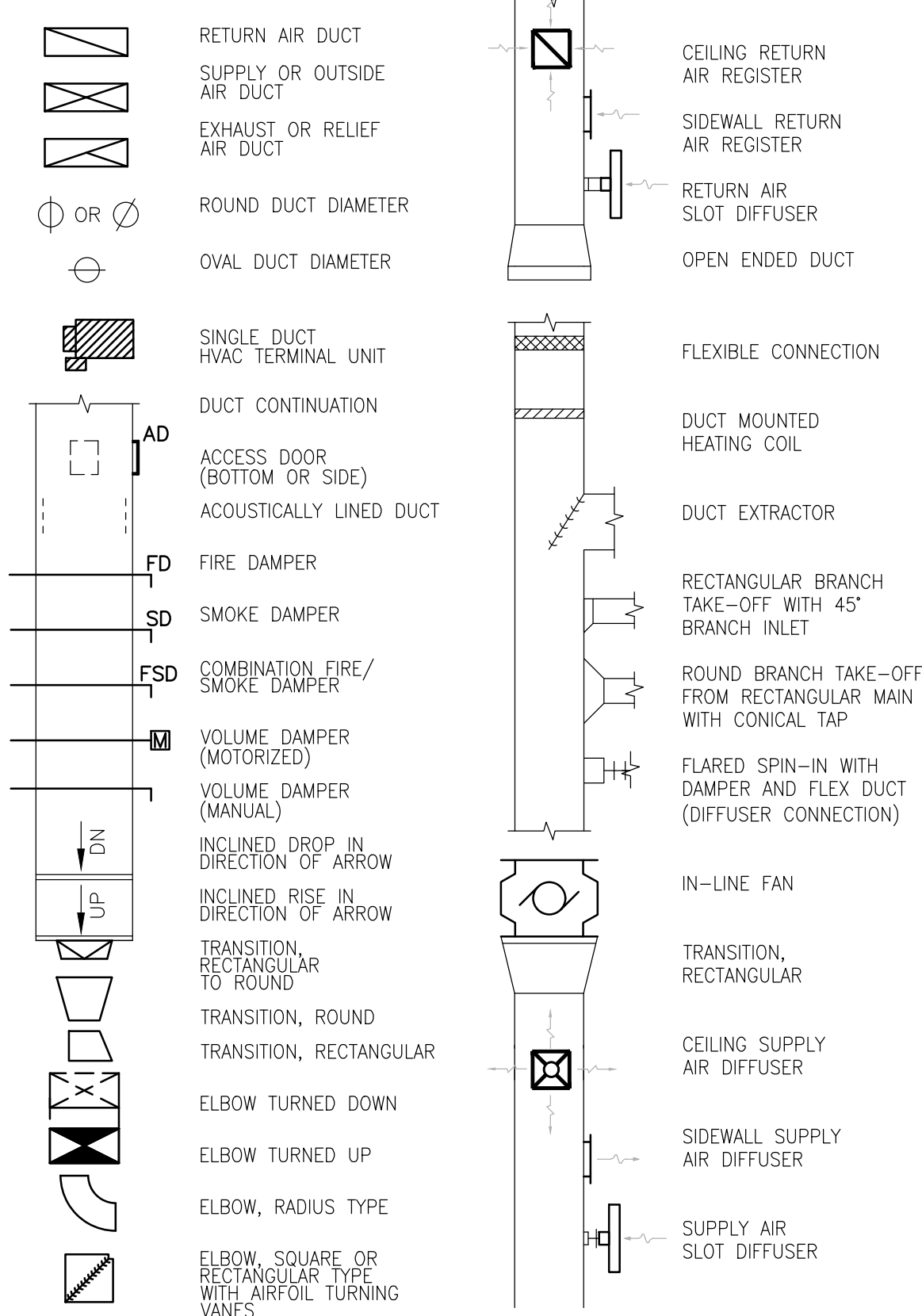
A6.03

SYMBOLS

GENERAL SYMBOLS



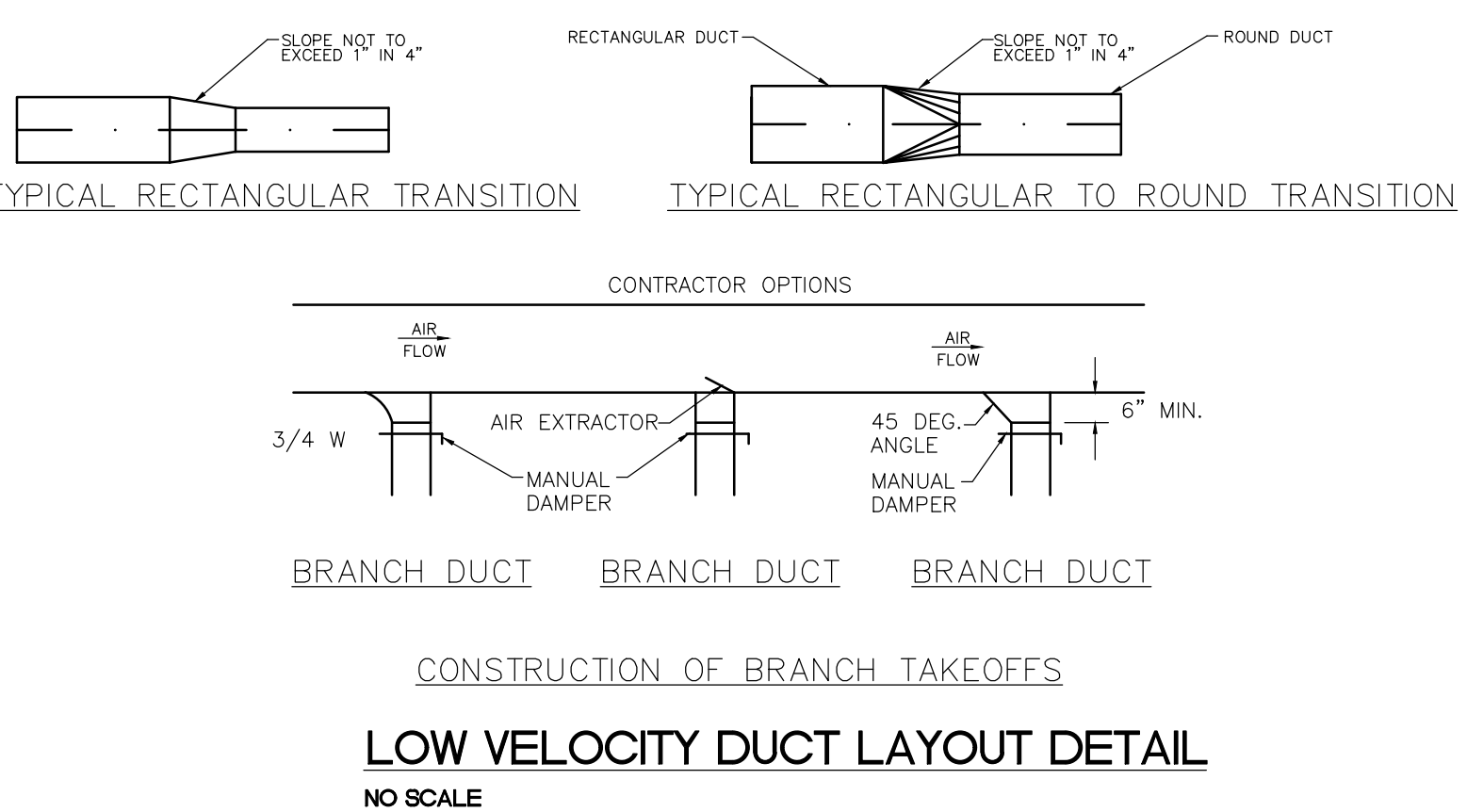
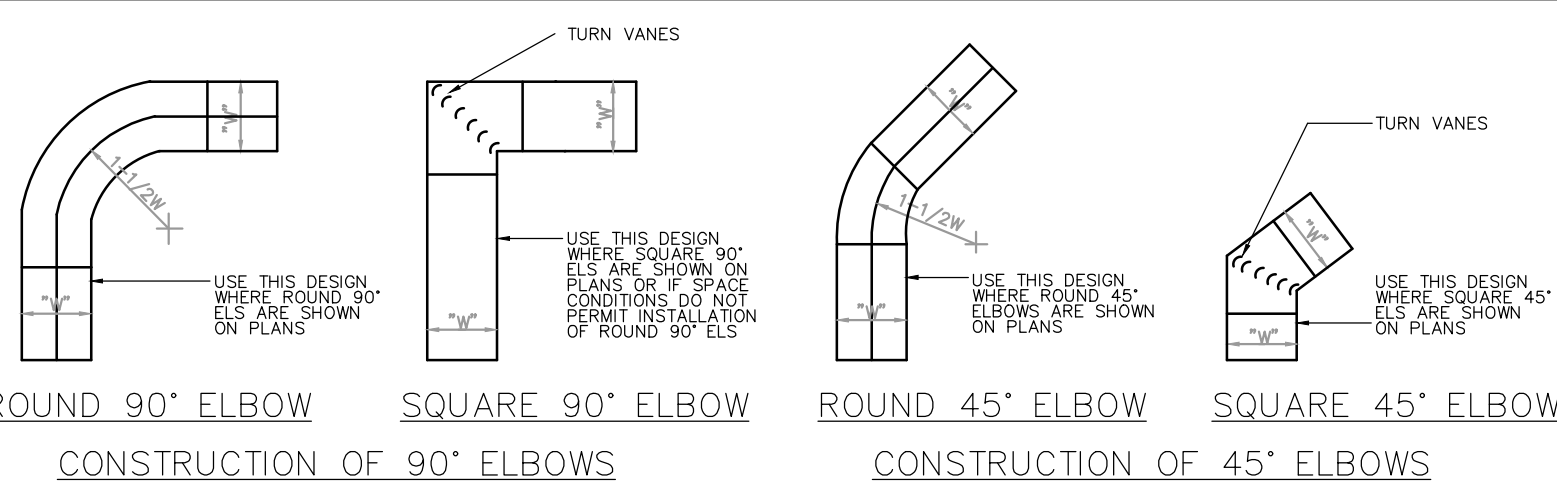
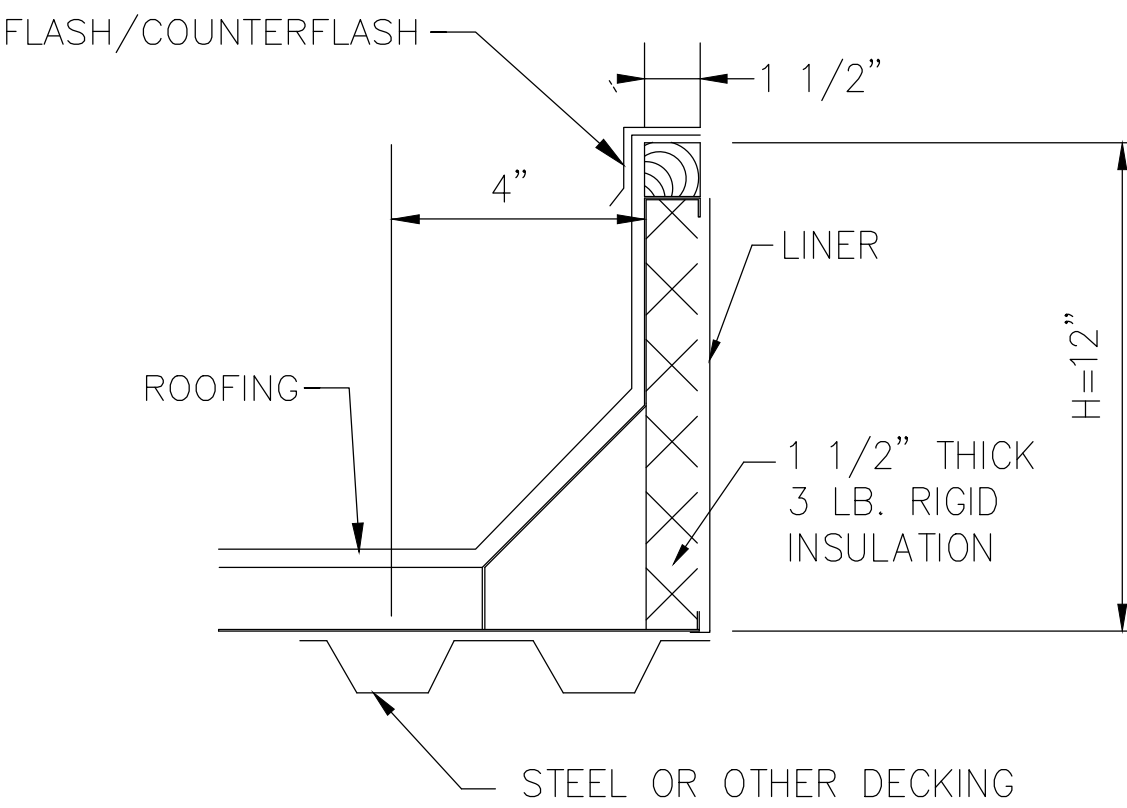
DUCTWORK SYMBOLS



MECHANICAL ABBREVIATION LEGEND

ABV	AT	CC	GENERAL CONTRACTOR
AC	ABOVE	GV	GATE VALVE
AD	AIR CONDITIONING	GLV	GLOBE VALVE
AFF	ACCESS DOOR	HP	HORSEPOWER
AHU	ABOVE FINISHED FLOOR	HWR	HOT WATER RETURN
AS	AIR HANDLING UNIT	HWS	HOT WATER SUPPLY
AS	AIR SEPARATOR	HPCR	HIGH PRESSURE CONDENSATE RETURN
AC	AIR COMPRESSOR	HPS	HIGH PRESSURE STEAM (60 PSIG & UP)
B	BOILER	HVAC	HEATING, VENTILATING & AIR CONDITIONING UNIT
BTU	BRITISH THERMAL UNIT	IE	INVERT ELEVATION
BUDG	BUILDING	LVR	LOUVER
CRR	CEILING RETURN REGISTER	LWT	LEAVING WATER TEMPERATURE
CSR	CEILING SUPPLY REGISTER	LOC	LOCATION
CW	CHILLED WATER	MW	MAKE-UP WATER
CWR	CHILLED WATER RETURN	MAX	MAXIMUM
CWS	CHILLED WATER SUPPLY	MC	MECHANICAL CONTRACTOR
CH	CHILLER	MPCR	MEDIUM PRESSURE CONDENSATE RETURN
CP	CIRCULATING PUMP	MPS	MEDIUM PRESSURE STEAM (16 PSIG THRU 59 PSIG)
CO	CLEAN OUT	MIN	MINIMUM
CD	CONDENSATE DRAIN LINE	OA	OUT SIDE AIR DUCT
CPD	CONDENSATE PUMP DISCHARGE	PC	PLUMBING CONTRACTOR
CONN	CONNECT	PME	PLUMBING/MECHANICAL/ELECTRICAL
CONT	CONTINUATION	PD/FT	PRESSURE DROP (FEET OF WATER)
CT	COOLING TOWER	PRV	PRESSURE REDUCING VALVE
CFM	CUBIC FEET PER MINUTE	REF	REFERENCE
DN	DOWN	RHC	REHEAT COIL
DRWG	DRAWING	RL	REFRIGERANT LIQUID
EC	ELECTRICAL CONTRACTOR	RS	REFRIGERANT SUCTION
ELEV	ELEVATION	RA	RETURN AIR DUCT
EWT	ENTERING WATER TEMPERATURE	RA	RETURN AIR FAN
ET	EXPANSION TANK	RTU	ROOF TOP UNIT
EA	EXHAUST AIR DUCT	SA	SUPPLY AIR DUCT
EF	EXHAUST FAN	SAF	SUPPLY AIR FAN
EXIST	EXISTING	SD	SPLIT DAMPER
EXT	EXTEND	SP	STATIC PRESSURE
FC	FAN COIL UNIT	T	THERMOSTAT
FT	FEET	UH	UNIT HEATER
FD	FIRE DAMPER	W	WITH
FLR	FLOOR		

NOTE: ALL SYMBOLS MAY NOT APPLY



HVAC EQUIPMENT SCHEDULE

UNIT #	BRAND	MODEL #	TONAGE	VOLTAGE	PHASE	HEATING INPUT	CFM	OUTSIDE AIR	HxWxL	WIGHT	MCA	M/F	ACCESSORIES
RTU-1	TRANE	YSC072H3RHA	6	208/230	3PH	120,000	2400	350	41X53X89	900 LBS	35	50	ALL
RTU-2	TRANE	YSC072H3RHA	6	208/230	3PH	120,000	2400	350	41X53X89	900 LBS	35	50	ALL

REMARKS:
1. NON-FUSED DISCONNECT
2. POWERED GFCI OUTLET
3. THROUGH BASE GAS/ELECTRIC
4. MANUAL OUTSIDE AIR DAMPER
5. 0-100% FRESH AIR ECONOMIZER WITH COMPARATIVE ENTHALPY
6. 0-100% LOW LEAK ECONOMIZER WITH COMPARATIVE ENTHALPY
7. RETURN AIR SMOKE DETECTOR
8. T-STAT TO BE 7 DAY PROGRAMMABLE STAT WITH STANDER LOCKING COVER

EXHAUST FAN SCHEDULE

UNIT #	BRAND	MODEL #	VOLTAGE	PHASE	CFM	ESP	DRIVE	WATTS / H.P.	REMARKS
EF-1	BROAN	L-150	120	1PH	150	.25	DIRECT	100 WATTS	ALL
EF-2	BROAN	L-150	120	1PH	150	.25	DIRECT	100 WATTS	ALL

REMARKS:
1. VIBRATION ISOLATORS
2. FLEXIBLE DUCT CONNECTION AT INLET AND/OR OUTLET
3. INSULATED CABINET
4. BACK-DRAFT DAMPER

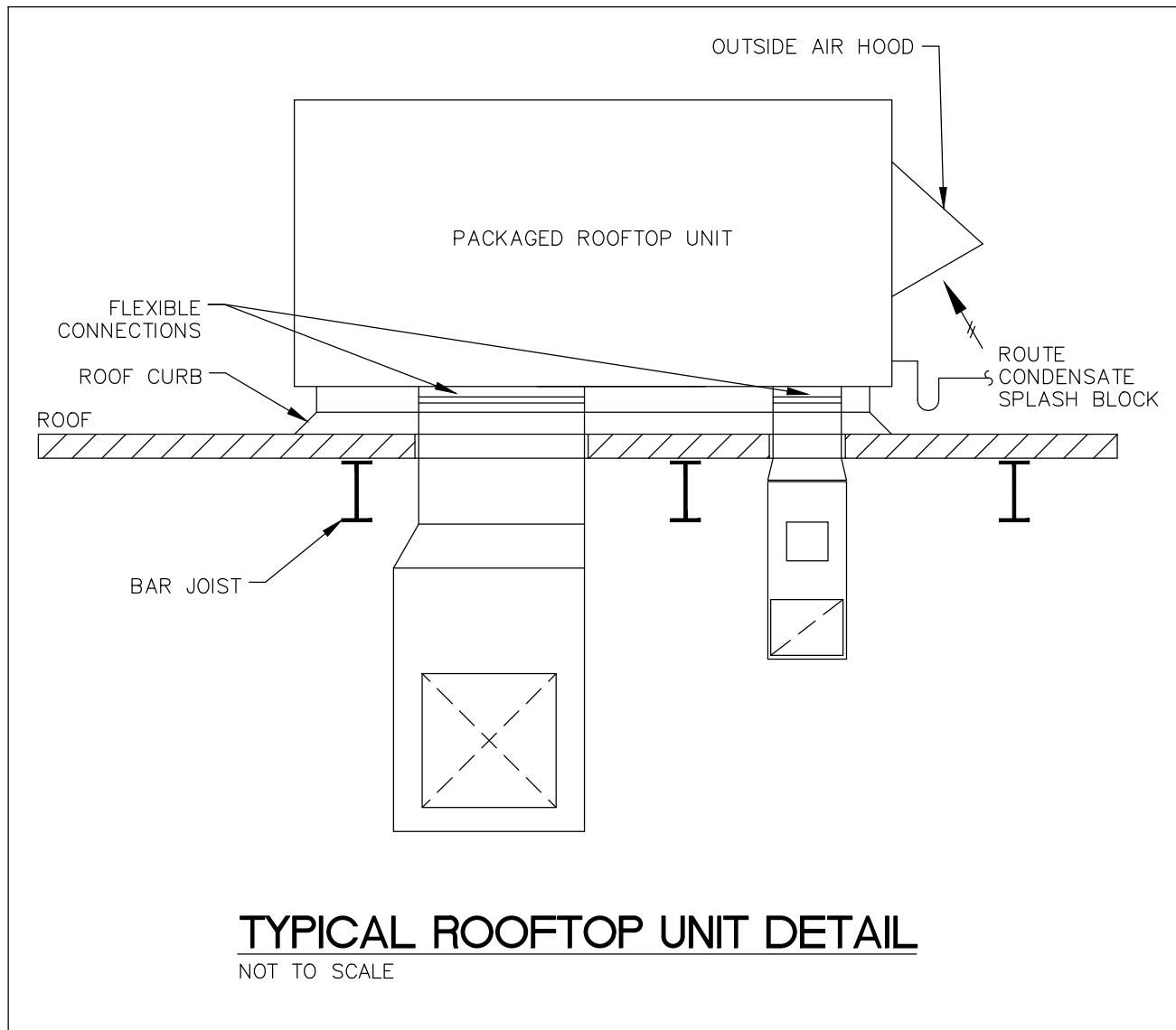
DIFFUSER, GRILLES, AND REGISTERS SCHEDULE

TAG	BRAND	MODEL #	DEFLECTION	VELOCITY	MAX. CFM	NC RATING	NECK SIZE	MAX. PD. IN WG.	ACCESSORIES
S-1	HART & COOLEY	FPD	4-WAY	500	300	<20	10"	.012	ALL
S-2	HART & COOLEY	FPD	4-WAY	500	100	<20	8"	.012	ALL
R-1	HART & COOLEY	FPD	4-WAY	500	600	<20	-	.012	ALL
R-2	HART & COOLEY	FPD	4-WAY	500	200	<20	10"	.012	ALL

ACCESSORIES:
1. WHITE BAKED ENAMEL FINISH
2. SILVER BAKED ENAMEL
3. LOUVER FACE
4. OPPOSED BLADE DAMPER
5. STEEL CONSTRUCTION

AIR BALANCE SCHEDULE CFM (OFFICE)

ITEM	OA	RA	SA	EA	PRESSURE
RTU-1	+350	-2150	+2400	---	+350
RTU-2	+350	-2150	+2400	---	+350
EF-1	---	---	---	-150	-150
EF-2	---	---	---	-150	-150
TOTAL	+700	-4300	+4800	-300	+400



PROJECT NO:

21-4188

DRAWN BY:

JMK

DATE:

12-02-2021

JMK DESIGN & DRAFTING, LLC
172 KEVIN PLACE
MOUNT WASHINGTON, KY 40047
PHONE: 502.387.9049



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4717 PRESTON HIGHWAY
LOUISVILLE, KENTUCKY 40213
(502) 636-5113

NEW CONSTRUCTION FOR:

PATEL LIQUOR STORE

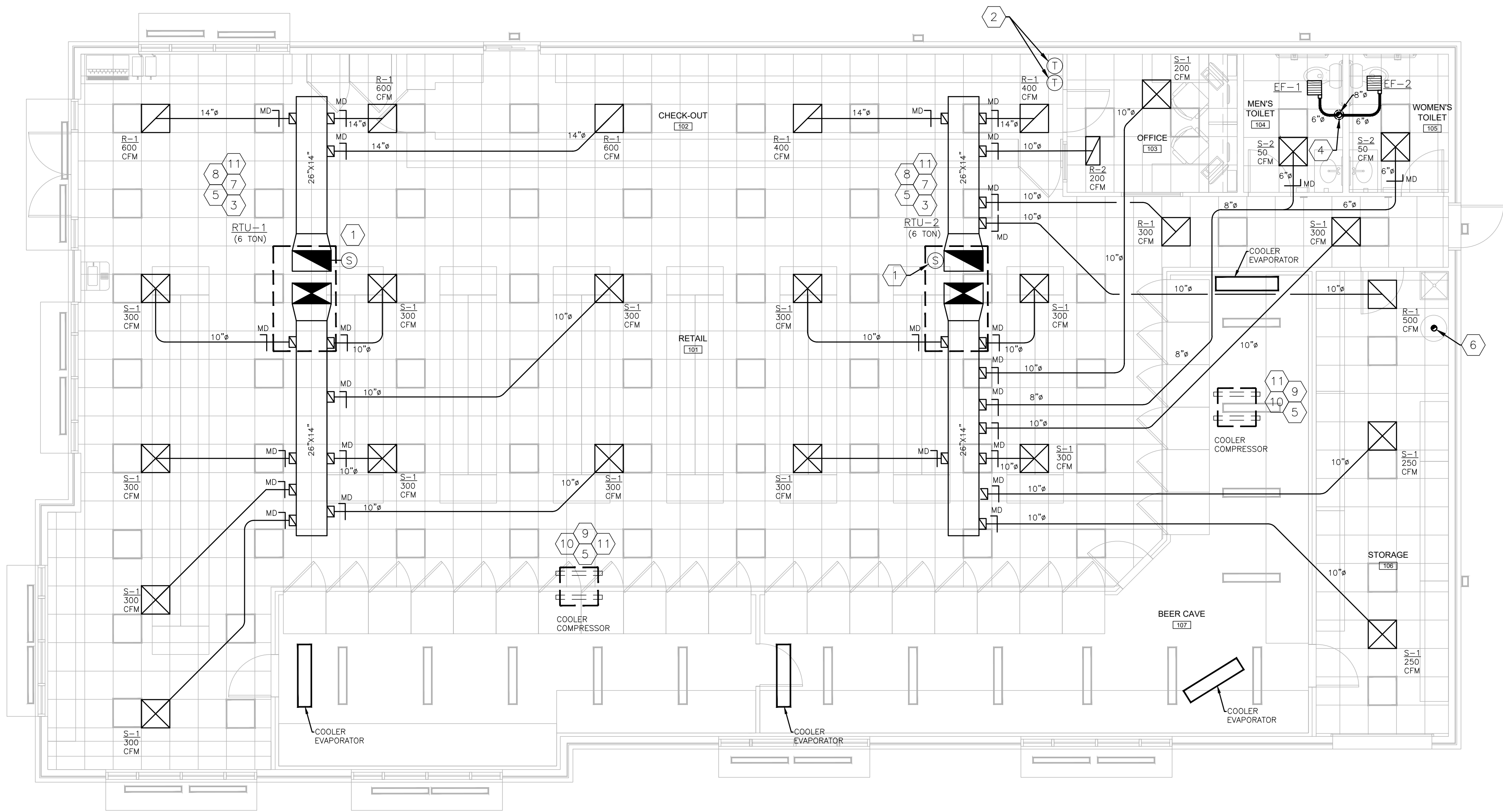
NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

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MECHANICAL
SCHEDULE AND
DETAILS

M0.1

PROJECT: ##### - FILE: 21-KEYES-004-M101.dwg - DATE: Dec 02, 2021 8:7AM - BY: JAMIE KILNER



MECHANICAL FLOOR PLAN

SCALE: 3/16"=1'-0"

MECHANICAL KEY NOTES:

1. DUCT SMOKE DETECTOR, REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION.
2. AREA T-STAT TO BE MOUNTED ON WALL 48" ABOVE FINISHED FLOOR.
3. ROOFTOP INTAKE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY EXHAUST OR PLUMBING VENTS (TYPICAL).
4. EXHAUST DUCT THRU ROOF AND CONNECT TO HOOD PER MANUFACTURER'S RECOMMENDATIONS.
5. ROOFTOP TO BE A MINIMUM OF 10'-0" AWAY FROM EDGE OF BUILDING. IF ROOFTOP IS PLACED WITHIN 10'-0" THEN MAINTENANCE RAILS WILL NEED TO BE INSTALLED PER INTERNATIONAL MECHANICAL CODE.
6. VENT UP THRU ROOF AND TERMINATE. GC TO COORDINATE WITH LAND LANDLORD.
7. M.C. SHALL EXTEND ROOFTOP DRAIN TO ROOF AND SPILL. VERIFY EXACT ROUTING ON SITE.
8. M.C. SHALL REFER TO TYPICAL ROOFTOP UNIT DETAIL ON SHEET M0.1 FOR DUCTWORK INSTALLATION.
9. CONDENSING UNIT ON ROOF FOR BEER COOLER. UNIT TO BE PLACED ON 4"x4" TRADED WOOD. COORDINATE WITH GC FOR MOUNTING ON ROOF.
10. MC CONTRACTOR SHALL INSTALL COMPRESSOR AND EVAPORATOR AND MAKE FINAL CONNECTIONS.
11. DASHED LINES INDICATES EQUIPMENT TO BE PLACED ON ROOF.

PROJECT NO:

21-4188

DRAWN BY:

JMK

DATE:

12-02-2021

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NEW CONSTRUCTION FOR:
PATEL LIQUOR STORE

NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

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MECHANICAL FLOOR PLAN

M1.1

SECTION 15885
SEQUENCE OF OPERATION

PART 1 - GENERAL

1.01 DESCRIPTION

- A. THE HEATING AND COOLING OF THE SPACE IS ACCOMPLISHED BY (1) GAS/ELECTRIC ROOFTOP UNIT.
PART 2 - CONTROL
A. THE ROOFTOP UNIT SHALL BE CONTROLLED BY A 7-DAY PROGRAMMABLE THERMOSTAT WITH CLEAR LOCKABLE COVER SAME MAKE AS AIR CONDITIONING SYSTEM COMPONENTS.

END OF SECTION.

SECTION 15890
TESTING, ADJUSTING AND BALANCING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. A BALANCED HVAC SYSTEM REPORT SHALL BE SUBMITTED TO THE ENGINEER OR RECORD PRIOR TO COMMISSIONING AND FINAL ACCEPTANCE. BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERTIFIED AND SHALL SUBMIT A COPY OF CERTIFICATION WITH THE BALANCE REPORT.

1.02 WORK BY TAB AGENCY

- A. THE WORK INCLUDED IN THE REMAINDER OF THIS SECTION CONSISTS OF FURNISHING LABOR, INSTRUMENTS, AND TOOLS REQUIRED IN TESTING, ADJUSTING AND BALANCING THE HVAC SYSTEMS, AS DESCRIBED IN THESE SPECIFICATIONS OR SHOWN ON ACCOMPANYING DRAWINGS. SERVICES SHALL INCLUDE CHECKING EQUIPMENT PERFORMANCE, TAKING THE SPECIFIED MEASUREMENTS, AND RECORDING AND REPORTING THE RESULTS. THIS WORK SHALL BE PERFORMED BY THE TAB AGENCY.
B. THE ITEMS REQUIRING TESTING, ADJUSTING, AND BALANCING INCLUDE THE FOLLOWING:
1. AIR SYSTEMS:
a. SUPPLY FANS
b. EXHAUST FANS
c. ZONE BRANCH AND MAIN DUCTS
d. DIFFUSERS, REGISTERS AND GRILLES
e. COILS (AIR TEMPERATURES)

1.03 REPORTS:

- A. FINAL TAB REPORT - THE TAB AGENCY SHALL SUBMIT THE FINAL TAB REPORT FOR REVIEW BY THE ENGINEER. ALL OUTLETS, DEVICES, HVAC EQUIPMENT, ETC., SHALL BE IDENTIFIED, ALONG WITH A NUMBERING SYSTEM CORRESPONDING TO REPORT UNIT IDENTIFICATION. THE TAB AGENCY SHALL SUBMIT A "NATIONAL PROJECT PERFORMANCE GUARANTY" ASSURING THAT THE PROJECT SYSTEMS WERE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND NATIONAL STANDARDS.
B. SUBMIT 3 COPIES OF THE FINAL TAB REPORT.

1.04 DEFICIENCIES:

- A. ANY DEFICIENCIES IN THE INSTALLATION OR PERFORMANCE OF A SYSTEM OR COMPONENT OBSERVED BY THE TAB AGENCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND CONTRACTOR.
B. THE WORK NECESSARY TO CORRECT ITEMS ON THE DEFICIENCY LISTING SHALL BE PERFORMED AND VERIFIED BY THE AFFECTED CONTRACTOR BEFORE THE TAB AGENCY RETURNS TO RETEST. UNRESOLVED DEFICIENCIES SHALL BE NOTED IN THE FINAL REPORT.
C. THE SPECIFIC SYSTEM SHALL BE REVIEWED AND INSPECTED FOR CONFORMANCE TO DESIGN DOCUMENTS. TESTING, ADJUSTING AND BALANCING ON EACH IDENTIFIED SYSTEM SHALL BE PERFORMED. THE ACCURACY OF MEASUREMENTS SHALL BE IN ACCORDANCE WITH NATIONAL STANDARDS. ADJUSTMENT TOLERANCES SHALL BE + OR - 10% UNLESS OTHERWISE STATED.

PART 2 - SYSTEM REPORT & TESTING

2.01 DUCT PRESSURE TESTING

- A. DUCTWORK AIR LEAKAGE TESTING SHALL BE PERFORMED BY THE TAB AGENCY.
B. THE DUCTWORK/SHEETMETAL SUBCONTRACTOR SHALL PROMPTLY CORRECT ANY RELATED PROBLEMS DISCOVERED BY THE LEAKAGE TESTS.
C. ALL COSTS ASSOCIATED WITH RETESTING AND/OR DELAYS OR OTHER PROBLEMS WHICH IMPEDE THE TAB AGENCY FROM PERFORMING SUCH TESTING SHALL BE PAID BY THE CONTRACTOR AND ANY SUBCONTRACTOR(S) FOR DUCTWORK.

2.02 AIR SYSTEMS

- A. THE TAB AGENCY SHALL VERIFY THAT ALL DUCTWORK, DAMPERS, GRILLES, REGISTERS, AND DIFFUSERS HAVE BEEN INSTALLED PER DESIGN AND SET IN THE FULL OPEN POSITION. THE TAB AGENCY SHALL PERFORM THE FOLLOWING TAB PROCEDURES IN ACCORDANCE WITH THE NATIONAL STANDARDS:
1. SUPPLY FANS:
a. FAN SPEEDS - TEST AND ADJUST FAN RPM TO ACHIEVE MAXIMUM OR DESIGN CFM. CONFIRM PROPER ROTATION DIRECTION.
b. CURRENT AND VOLTAGE - TEST AND RECORD MOTOR VOLTAGE AND AMPERAGE, AND COMPARE DATA WITH THE NAMEPLATE LIMITS TO ENSURE FAN MOTOR IS NOT IN OR ABOVE THE SERVICE FACTOR.
c. PITOT-TUBE TRAVERSE - PERFORM A PITOT-TUBE TRAVERSE OF MAIN SUPPLY AND RETURN DUCTS, AS APPLICABLE, TO OBTAIN TOTAL CFM.
d. OUTSIDE AIR - TEST AND ADJUST THE OUTSIDE AIR ON APPLICABLE EQUIPMENT USING A PITOT-TUBE TRAVERSE. IF A TRAVERSE IS NOT PRACTICAL, USE THE MIXED-AIR TEMPERATURE METHOD IF THE INSIDE AND OUTSIDE TEMPERATURE DIFFERENCE IS AT LEAST 20 DEGREES FAHRENHEIT OR USE THE DIFFERENCE BETWEEN PITOT-TUBE TRAVERSES OF THE SUPPLY AND RETURN AIR DUCTS.
e. STATIC PRESSURE - TEST AND RECORD SYSTEM STATIC PROFILE OF EACH SUPPLY FAN.
2. EXHAUST FANS:
a. FAN SPEEDS - TEST AND ADJUST FAN RPM TO ACHIEVE MAXIMUM AND DESIGN CFM. CONFIRM PROPER ROTATION DIRECTION.
b. CURRENT AND VOLTAGE - TEST AND RECORD MOTOR VOLTAGE AND AMPERAGE, AND COMPARE DATA WITH THE NAMEPLATE LIMITS TO ENSURE MOTOR IS NOT IN OR ABOVE THE SERVICE FACTOR.
c. PITOT-TUBE TRAVERSE - PERFORM A PITOT-TUBE TRAVERSE OF MAIN EXHAUST DUCTS TO OBTAIN TOTAL CFM.
3. ZONE, BRANCH AND MAIN DUCTS:
a. ADJUST DUCTS TO WITHIN DESIGN CFM REQUIREMENTS. AS APPLICABLE, AT LEAST ONE ZONE BALANCING DAMPER SHALL BE COMPLETELY OPEN. MULTI-DIFFUSER BRANCH DUCTS SHALL HAVE AT LEAST ONE OUTLET OR INLET VOLUME DAMPER COMPLETELY OPEN.
4. DIFFUSERS, REGISTERS AND GRILLES:
a. TOLERANCES - TEST, ADJUST, AND BALANCE EACH DIFFUSER, GRILLE, AND REGISTER TO WITHIN 10% OF DESIGN REQUIREMENTS. MINIMIZE DRAFTS.
b. IDENTIFICATION - IDENTIFY THE TYPE, LOCATION, AND SIZE OF EACH GRILLE, DIFFUSER, AND REGISTER. THIS INFORMATION SHALL BE RECORDED ON AIR OUTLET DATA SHEETS.
5. COILS:
B. AIR TEMPERATURE - ONCE AIR FLOWS ARE SET TO ACCEPTABLE LIMITS, TAKE WET BULB AND DRY BULB AIR TEMPERATURES ON THE ENTERING AND LEAVING SIDE OF EACH COOLING COIL. DRY-BULB TEMPERATURE SHALL BE TAKEN ON THE ENTERING AND LEAVING SIDE OF EACH HEATING COIL.

END OF SECTION

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12-02-2021

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NEW CONSTRUCTION FOR:

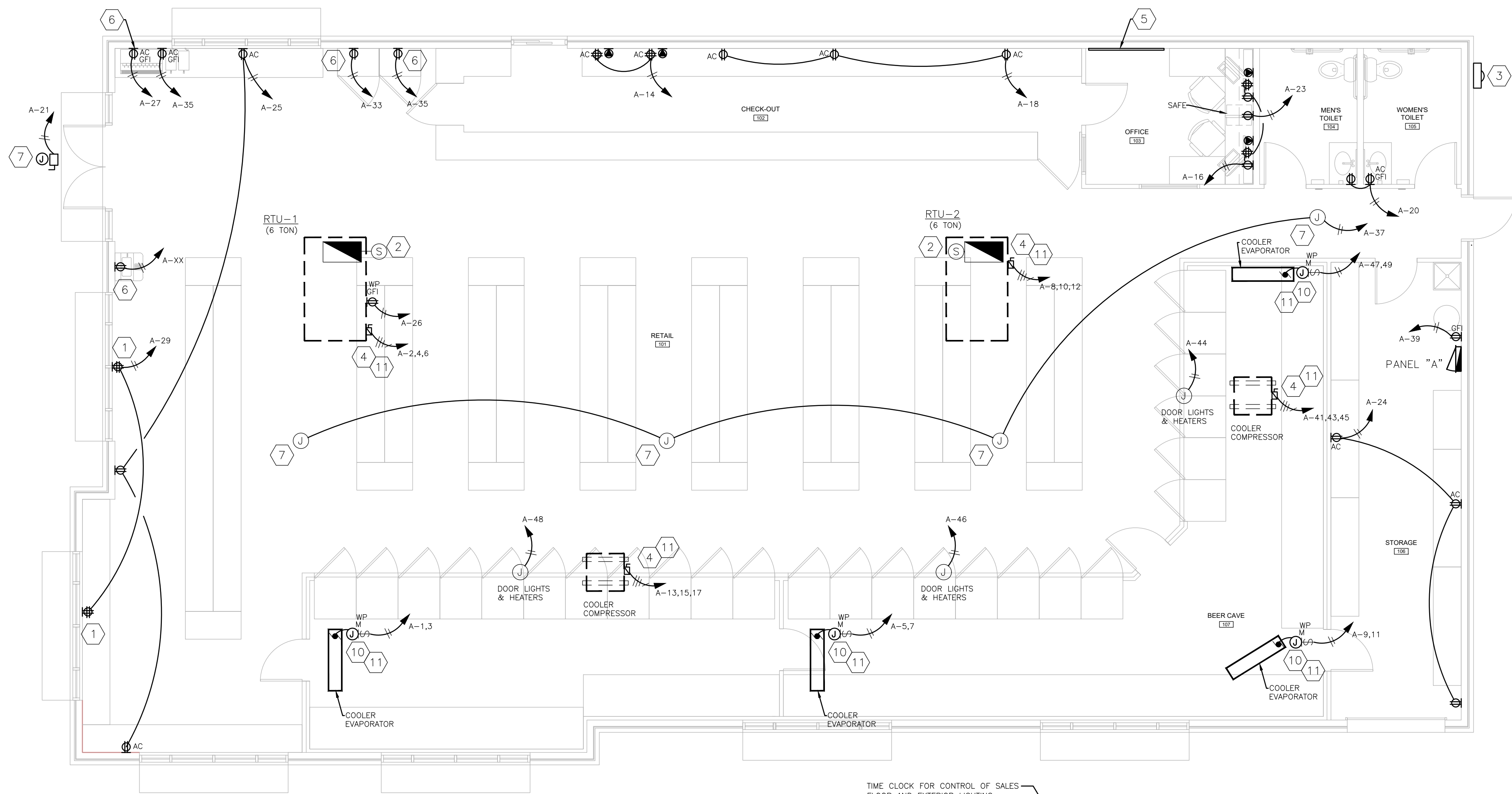
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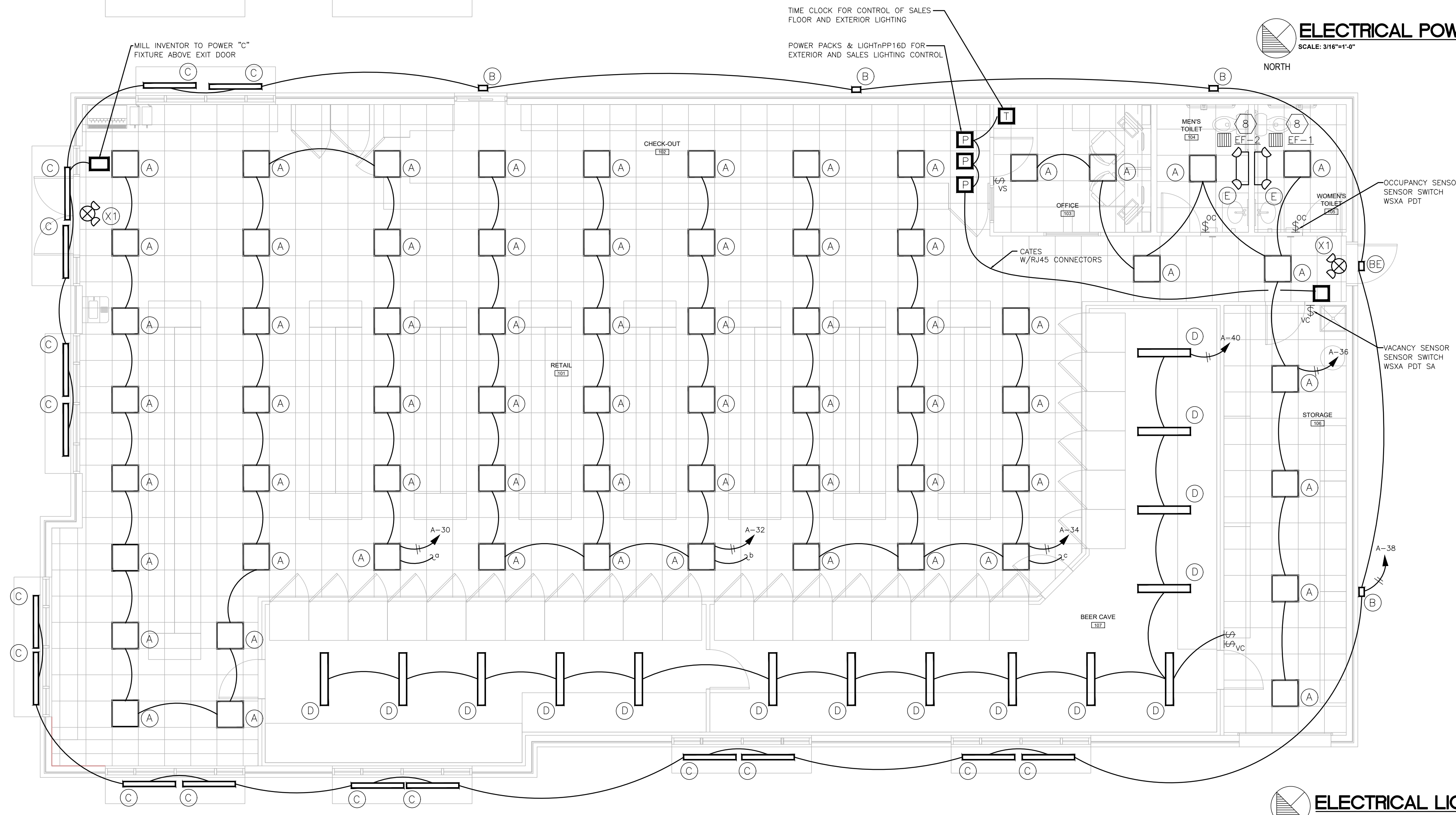
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MECHANICAL
SPECIFICATIONS

M2.2



ELECTRICAL POWER PLAN
SCALE: 3/16"=1'-0"
NORTH



ELECTRICAL LIGHTING PLAN
SCALE: 3/16"=1'-0"
NORTH

ELECTRICAL KEY NOTES:

1. RECEPTACLE TO BE INSTALLED HIGH ON WALL ABOVE WINDOW FOR WINDOW SIGNS. COORDINATE EXACT LOCATION WITH GC.
2. ELECTRICAL SHALL PROVIDE AND INSTALL SMOKE DETECTOR IN RETURN AIR DUCT AS SHOWN AND INTERLOCK WITH SUPPLY FAN TO SHUTOFF FAN UPON SMOKE DETECTION.
3. INDICATES NEW 200 AMP 3 PH METER.
4. 3 POLE, 60AMP, 250VOLT, NEMA 3R DISCONNECT SWITCH FUSED PER UNIT NAMEPLATE. FINAL CONNECTION WITH SEAL-TITE
5. PROVIDE LOW VOLTAGE BOARD PER OWNER SPECIFICATIONS.
6. EC TO PROVIDE AND INSTALL A DEDICATED CIRCUIT.
7. JUNCTION BOX IN CEILING SPACE FOR DISPLAY SIGNS ETC. EC TO COORDINATE WITH GENERAL CONTRACTOR FOR EXACT LOCATION.
8. EXHAUST FAN TO BE INTERLOCKED WITH LIGHT SWITCH.
9. 2P, 30AMP, 240V NEMA 3R FUSIBLE DISCONNECT SWITCH FOR CONNECTION TO COOLER COMPRESSOR.
10. JUNCTION BOX WITH MOTOR RATED TOGGLE SWITCH IN WEATHER PROOF ENCLOSURE, FOR CONNECTION TO EVAPORATOR.
11. MOUNT TO UNIT.

LOW VOLTAGE CABLING NOTES

- A. EC TO INSTALL ONE CAT 6 CABLE TO EACH DATA LOCATION FROM LOW VOLTAGE BOARD. TERMINATION ON EACH END BY OTHERS.
- B. EC TO INSTALL ONE CAT 6 CABLE TO EACH CCTV LOCATION FROM LOW VOLTAGE BORD. TERMINATION ON EACH END BY OTHERS.
- C. EC TO INSTALL ONE RGB AND ONE CAT 6 FROM DMARC TO LOW VOLTAGE BORD. TERMINATION ON EACH END BY OTHERS.
- D. ELEVATION OF CCTV TO BE VEERED ON SITE.

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ELECTRICAL POWER
AND LIGHTING PLANS

E1.1

ELECTRICAL SPECIFICATIONS

SCOPE OF WORK

- A. Work includes furnishing all labor, materials, equipment, tools, transportation, superintendence and services required to construct and completely install a fully operative electrical system as specified herein and as elsewhere required.
- B. Contractor is advised to visit and to acquaint himself with the working conditions. Contractor shall accept conditions at the site as they exist on the bid date.
- C. Materials and equipment shall be new unless indicated otherwise. Material shall bear U.L. label where such standards have been established and listed by U.L. Materials and equipment shall conform with the latest issues of applicable technical standards.
- D. Contractor shall cooperate with trades to obtain the most practical arrangement of work failure of the contractor to make known his needs and to determine the requirements of others shall not be cause of additional compensation to correct interference.
- E. Review the drawings and specifications of all trades, particularly those sections describing electrically operated equipment and become familiar with work called upon in those sections. At the conclusion of the work, be responsible for the proper wiring and functioning of all electrically operated equipment furnished and or installed under this contract.
- F. Contractor shall clean all equipment and conduit systems and test complete electrical systems for grounds and short circuits before final acceptance in accordance with NEC requirements. All test equipment shall be furnished by the contractor.
- G. Contractor shall guarantee all labor and materials entering into contract for a period of one (1) year from date of acceptance.
- H. Contractor shall provide necessary cutting and patching to install and finish work, correct all faulty work and repair installations that do not comply with code and practice. Patching shall be done by craftsmen skilled in their work. All openings shall be filled and matched to conform with fire regulations.
- I. All work shall be governed by the latest edition of the National Electrical Code (NEC) supplements and all state and local codes.
- J. Unless specifically stated otherwise, references to any device in the specifications or on the drawings by name, manufacturer or catalog number shall be interpreted as establishing a standard of quality and shall not be construed as limiting competition. However, any substitutions for equipment specified by manufacturer shall be submitted to engineer for approval prior to bid.
- K. Equipment and accessories not specifically described or identified by catalog number shall be designed in accordance with applicable standards.
- L. Provide workmanship that is "first class" neatly and accurately performed by mechanics experience in their trade.
- M. The contractor shall obtain and pay for all permits and inspections from legally authorized agencies governing the work and be responsible for all notice to the inspection authorities. Furnish the owner with all certificates of inspections.
- N. Scale of the drawings is approximate. Exact locations, elevations and dimensions shall be governed by field conditions.
- O. Contractor shall furnish a temporary service for the use of all trades during construction as required by the general contractor. Remove all temporary equipment as permanent services become available.
- P. All outlets, fixtures and equipment shall be fully connected to proper sources of power supply and left ready to use.
- Q. Sequence, coordinate and integrate installations of electrical materials and equipment for efficient flow of the work.
- R. No work of any kind shall be covered up before it has been examined and approved.
- S. Arrange for chases, slots and openings in other building components to allow for electrical installations.

ELECTRICAL SUBMITTALS:

Submital of shop drawings, product data and samples will be accepted only when submitted by the contractor. Place a permanent label of title block on each submital for identification. Indicate the name of the entity that prepared each submital on the label of title block. Include the following information on the label for processing and recording action taken. Provide seven (7) hard copies or electronic copies of the submittals are acceptable.

Project Name.
Date.
Name and Address of Contractor.
Name and Address of SubContractor.
Name and Address of Supplier.
Name of Manufacturer.

OPERATION AND MAINTENANCE DATA:

Maintenance Manuals: Organize operating and maintenance data into suitable sets of manageable size. Bind properly indexed data in individual heavy-duty 2-inch, 3-ring vinyl-covered binders, with pocket folders for folded sheet information. Mark appropriate identification on front and spine of each binder.

Provide the following information for all equipment:

Copy of Product Data and Shop Drawing submittals. Copy of manufacturer's warranties.

Description of function, normal operating characteristics and limitations, performance cures, engineering data and tests, and complete nomenclature and commercial numbers of all replaceable parts.

Manufacturer's printed operating procedures to include start-up, break-in, routine and normal operating instructions; regulation, control, stopping, shut-down and emergency instructions.

Maintenance procedures for routine preventative maintenance and troubleshooting; disassembly, repair, and reassembly; aligning and adjusting instructions. Servicing instructions and lubrication charts and schedules.

Record Drawings:

Maintain a clean, undamaged set of blue line white-prints of Contract Drawings and Shop Drawings. Mark the set to show the actual installation where the installation varies substantially from the Work as originally shown. Mark whichever drawing is most capable of showing conditions fully and accurately; where Shop Drawings are used, record a cross-reference at the corresponding location on the Contract Drawings. Give particular attention to concealed elements that would be difficult to measure and record at a later date.

Mark record sets with red erasable pencil; use other colors to distinguish between variations in separate categories of the Work.

Mark new information that is important to the Owner, but was not shown on Contract Drawings or Shop Drawings.

Note related Change Order number where applicable.

Organize record drawing sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates and other identification on the cover of each set.

Mark Drawings to indicate revisions to the work, including sizes and locations of both exterior and interior work; including locations of units requiring periodic maintenance or repair; actual equipment locations, dimensioned to column lines; concealed equipment, dimensioned to column lines; Change Orders.

SERVICES AND DISTRIBUTION:

- A. Electric service will be 120/208 volts, 3 phase 4 wire.
- B. Furnish and install circuit breaker lighting and power panelboards as indicated in the panelboard schedule and where shown on the plans. Subject to compliance with requirements, provide panelboard products of one of the following:

General Electric Company.
Square D Company.
Westinghouse Electric Corporation.
- C. Panelboards shall be a dead-lock safety type, surface or recessed mounted as shown, equipped with thermal-magnetic molded case circuit breakers with frame and trip ratings as shown on the schedule.
- D. Circuit breakers shall be quick-make, quick-break, thermal-magnetic, trip indicating and have common trip on all multi-pole breakers. Branch circuit breakers feeding convenience outlets shall have sensitive instantaneous trip settings of not more than 10 times the trip rating of breaker to prevent repeated arcing shorts resulting from frayed appliance cords.
- E. Connections to the bus shall be bolt-on.
- F. Bus bar connections to the branch circuit breakers shall be the "distributed phase" or "phase sequence" trip.
- G. Terminals for feeder conductors to the panelboard mains and neutral shall be U.L. listed as suitable for the type of conductor specified. Terminals for branch circuit wiring, both breaker and neutral, shall be U.L. listed as connectors shall be of the full compression type.
- H. Panelboard circuit numbering shall be such that starting at the top, odd numbers shall be used in sequence down the left-hand side and even numbers shall be used in sequence down the right-hand side.
- I. The panelboard bus assembly shall be enclosed in a steel cabinet. The size of the wiring gutters and gauge of steel shall be in accordance with NEMA Standard Publication No. PB-1971 and U.L. Standards No. 67 for panelboards. Cabinet shall be fabricated from galvanized steel or equivalent rust-resistant steel. Fronts shall include doors and have flush, brushed stainless steel, cylinder tumbler-type locks with catches and spring loaded door pulls. The flush lock shall not protrude beyond the front door. All panelboard locks shall be keyed alike. Fronts shall have adjustable indicating trip clamps which shall be concealed when the doors are closed. Doors shall be mounted by completely concealed steel hinges. Fronts shall not be removable with door in the located position. A circuit directory frame and type written card with a clear plastic covering shall be provided on the inside of the door. The directory card shall provide a space at least 1/4" high X 3" long or equivalent for each circuit. Provide copper busing for all panel assemblies.
- Fronts shall be of code gauge, full finished steel with rust-inhibiting primer factory finished enamel paint.
- J. Contractor to obtain maximum Fault Current Available from the utility. Calculate the fault current available at the panel. Panel to be braced to exceed maximum available fault current and circuit breakers are to be capable of interrupting fault current available.
- K. Disconnect switches shall be general duty, NEMA Type 1 for indoor service and NEMA Type 3R for outdoor service, suitable for padlocking, number of poles, ratings, fuses (if required) shall be as indicated on the drawings, ITE or equivalent.
- L. FUSES: Except as otherwise indicated, provide fuses of types, sizes and ratings and electrical characteristics indicated, which comply with manufacturer's standard design, materials and construction in accordance with published product information and with industry standards and configurations.
- Class R: Provide U.L. listed Class R dual-element, time-delay fuses rated at 250 volts as required. Busman LPN-R or LPS-R LOW-PEAK Dual-element or equivalent.
- Class J: Provide U.L. listed and C.S.A. certified Class J current-limiting dual-element fuses rated at 600 volts in switchboard distribution sections.

CONDUIT AND WIRE:

- A. All wiring (power, lighting, telephone, thermostat, etc.) shall be installed in conduit. Electrical Contractor shall be responsible for all conduit work.
- B. Install wiring concealed in conduit. Conduit shall be 3/4" minimum type EMT and shall be installed in compliance with NEC. Exposed and above accessible ceiling conduits shall be run parallel and perpendicular to building lines. Swab clean all conduit before pulling cable.
- C. All conduit couplings and connections shall be set screw type and made to ensure positive grounding continuity. Make connections to equipment subject to vibration with 18 inches of flexible watertight conduit with watertight fittings. Provide for support and securing of all conduit and equipment. Connections to recessed lighting fixtures shall be made with six (6) feet of flexible conduit from a box within two (2) feet of the fixture.
- D. All cable shall be new wire of recent manufacture and in accordance with the latest standards of IPCEA and NEMA as a minimum.
- E. All lighting and branch circuit wiring shall be solid copper conductor, 600V insulation, 75 Degrees C, temperature rating, type THW or THWN, not less than #12AWG.
- F. All wire serving as feeds to distribution panelboards or integral horsepower motors shall be stranded copper conductor, 600V insulation, 75 Degrees C, maximum temperature rating, THW or THWN, not less than #10 AWG.
- G. All wiring from outlet boxes to lighting fixtures shall be in accordance with NEC requirements.
- H. Splice wire only in accessible boxes.
- I. Fixture whips to be flexible metal conduit 1/2" minimum size with compression connectors with insulated throats. Whips not to exceed 6'. Fixture whips to be supported from building structure.
- J. Seal around conduits where it passes through walls and floors to prevent passage of air. Where conduit passes through fire walls and floors, seal with 3M brand fire barrier putty 303 or equal.
- K. Compression fittings only for EMT connectors and couplings with insulated throats.
- M. Utilize the following conductor insulation color codes for this project.
- 208/120
A Black
B Red
C Blue
Neutral White
Ground Green

DEVICES:

- A. Convenience receptacles shall be mounted 18" above finished floor (A.F.F.) to bottom unless noted otherwise, switches and pushbuttons shall be 42" A.F.F. to bottom unless specified otherwise on the drawings.
- B. Install all devices parallel and perpendicular to adjacent wall and ceiling, flush with surrounding surfaces and free from all obstructions. Reworking of equipment installed improperly shall be at the contractor's expense.
- C. Switches, boxes, etc., shall be NEMA Type 1 construction for indoor applications and NEMA Type 3R construction for outdoor applications.

- D. Switches shall meet NEMA standards, be ivory and equal to Hubbell #1221, 20 amperes, single pole, 125/277V. Multi-pole or special switching shall be as noted on the drawings.
- E. Receptacles shall meet NEMA standards, be ivory, 125 volt, 20 amperes, duplex, grounded Hubbell #5252. Special receptacles shall be as noted on the drawings.
- F. Matching nylon cover plates shall be provided for all receptacles and switches. Also furnish and install cover plates for all telephone, outlet boxes, and wall outlets.

LIGHTING FIXTURES:

Contractor shall be responsible for verifying fixtures- model numbers, quantity and location between lighting fixture schedule and floor plans.

General: Provide lighting fixtures of sizes, types and ratings indicated, complete with, but not necessarily limited to, housings, lamps, lamp holders, reflectors, ballasts, starters and wiring.

Lenses shall be as specified in the fixture schedule.

INSTALLATION OF LIGHTING FIXTURES:

Install lighting fixtures at locations and heights as indicated, in accordance with fixture manufacturer's written instructions, applicable requirements of NEC, NECA's "Standard of Installation", NEMA Standards, and with recognized industry practices to ensure that lighting fixtures fulfill requirements.

Coordinate with other electrical work as appropriate to properly interface installation of interior lighting fixtures with other work.

EC to fasten fixtures securely directly to building structural system. Light trappers shall be supported at each corner of fixture by wires of same gauge as hanger wire for ceiling grid. Attach earthquake clips to grid as recommended by light manufacturer. Use screws if required by manufacturer. Attach the wire to the steel structure or expansion bolts in the slab above. Lights shall not be supported in anyway by lay-in ceiling.

Fixture locations shall be at approximate locations as shown on the drawings free from all obstructions. Clean all lighting equipment after lighting installation and general construction is complete. Repair any fixtures damaged during constructions.

Provide necessary mounting frames, supports and related items required to properly install fixtures. Support fixtures independently of piping and ductwork. Make modifications to the structure as required to install fixtures. Any modifications to the structure shall not impair the structural integrity of the building.

EQUIPMENT CONNECTIONS

- A. All devices and equipment shall be solidly grounded in accordance with NEC requirements.
- B. All solid conductor wires may be terminated under screw heads. Stranded wires may be terminated by using push-in clamp type connectors furnished with devices or terminated with compression type terminal lugs. Set screw type terminations are not permitted.
- C. No motors are to be supplied under this contract unless items requiring a motor are furnished by this contractor. The contractor shall furnish all starters for all motors requiring a starter. The contractor shall connect all power equipment if & where shown on plans unless other-wise specified & assure owner the motors are in good running order.

TELEPHONE

- A. All telephone cable shall be run in conduit. Contractor shall install a minimum 1" conduit from each telephone set location to the telephone board or to accessible ceiling space or to tray as indicated.

FIRE ALARM SYSTEM

- A. Electrical contractor to supply and install all indicated devices shown. Field verify with existing fire alarm manufacture exact requirements to have a complete and fully operational fire alarm system.
- B. Provide and install required cabling to match existing, except all new cabling shall meet applicable national, state and local code requirements regardless of existing.
- C. System shall be capable to call out to an owner approved fire alarm monitoring agency. The electrical contractor shall coordinate with the owner to provide a dedicated phone line for the fire alarm monitoring system.

IDENTIFY RACEWAYS OF CERTAIN SYSTEMS WITH COLOR BANDING:

Band exposed or accessible raceways of the following systems for identification. Bands shall be pretensioned, snap-around colored plastic sleeves, colored adhesive marking tape, or a combination of the two. Make each color band 2 inches wide, completely encircling conduit and place adjacent bands of two-color markings in contact, side by side. Install bands at changes in direction, at penetrations of walls and floors and at 40 foot maximum intervals in straight runs. Apply the following colors:

Fire Alarm System: Red
Telephone System: Green

Identify Junction, Pull and Connection Boxes:

Label Power and Lighting Circuit Boxes with black marker pen to indicate system voltage and identify of contained circuits (function and circuit number).

Spray Paint Fire Alarm Telephone Boxes color indicated above and label system identification with black marker pen.

END OF SECTION

SPECIFICATION NOTES

- WHERE PERMITTED BY CODE AND LOCAL AUTHORITY MC CABLE IS ACCEPTABLE FOR THIS PROJECT.

PROJECT NO:

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NEW CONSTRUCTION FOR:

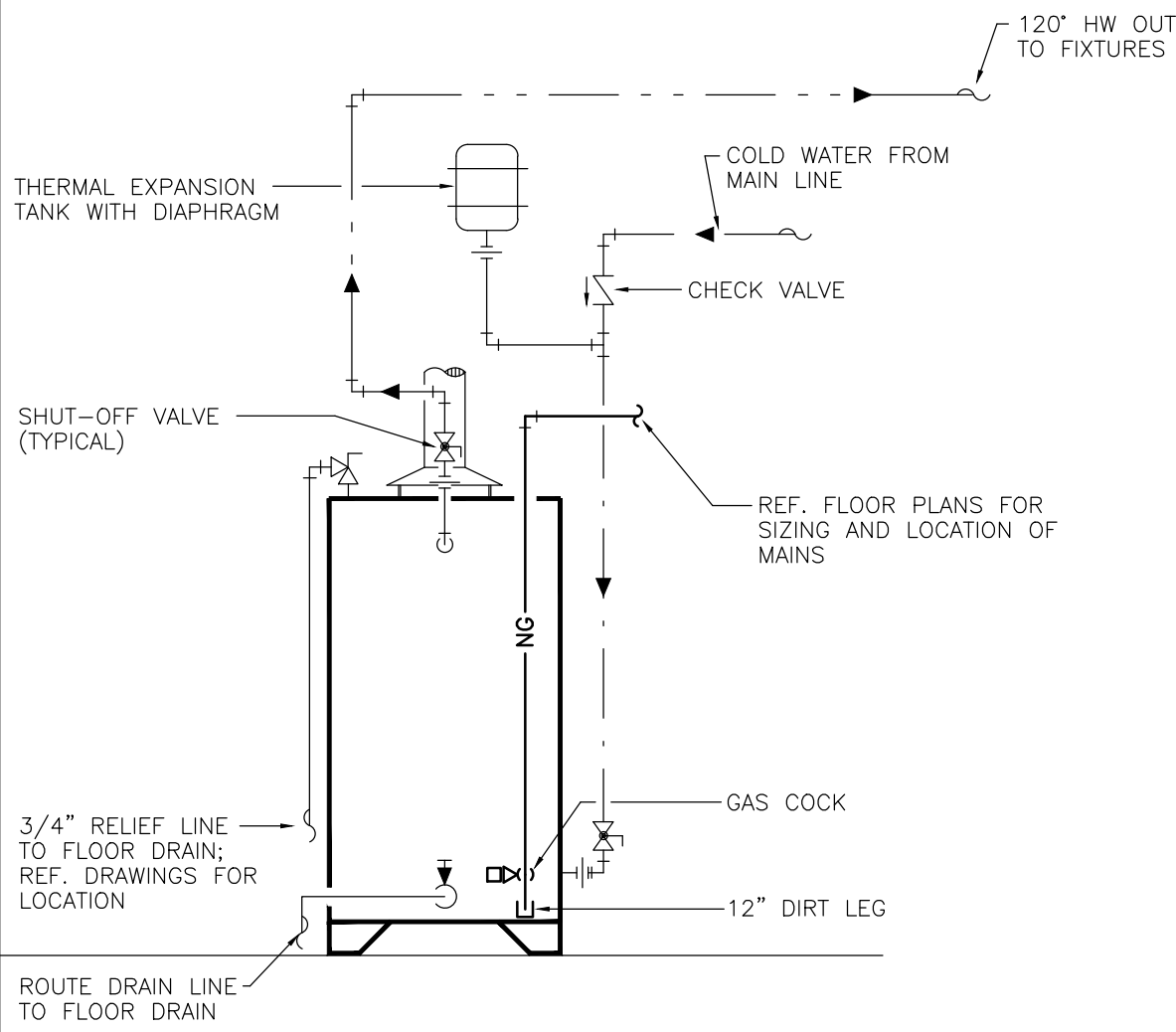
PATEL LIQUOR STORE

NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

ELECTRICAL
SPECIFICATIONS

E2.1

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GAS WATER HEATER DETAIL
NO SCALE

- GENERAL NOTES:**
- EQUIPMENT ROUGH-IN ITEMS & INDICATED LOCATIONS FOR ALL CONNECTIONS ARE APPROXIMATE & BASED ON INFORMATION OBTAINED FROM ARCHITECTURAL PLANS, VENDOR & MANUFACTURER INFORMATION OBTAINED DURING DESIGN. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS, ROUGH-INS, CONNECTIONS, & LOCATIONS OF ACTUAL MANUFACTURER'S EQUIPMENT PROVIDED. EQUIPMENT PROVIDED MAY DEVIATE FROM THAT OF BASIS OF DESIGN AND THEREFORE ENGINEER/ARCHITECT SHALL BE NOTIFIED IMMEDIATELY (PRIOR TO CONSTRUCTION/ROUGH-IN) OF ANY SUCH DEVIATIONS FROM WHAT IS INDICATED OR IMPLIED BY THE CONSTRUCTION DOCUMENTS. FAILURE OF CONTRACTOR TO VERIFY LOCATION/ROUGH-IN, ETC. REQUIREMENTS WITH EQUIPMENT SHALL PLACE SUCH RESPONSIBILITY ON THE CONTRACTOR AND ALL NECESSARY REMEDIES INCLUDING REMOVAL, RELOCATION, REPLACEMENT, ETC. SHALL BE BORN BY THE CONTRACTOR.
 - CONTRACTOR SHALL NOT DEVIATE FROM CONSTRUCTION DOCUMENTS WITHOUT APPROVAL. REQUEST TO DEVIATE FROM DRAWINGS SHALL BE PERFORMED PER PROJECT FRONT END REQUIREMENTS & AT A MINIMUM SHALL CONSIST OF WRITTEN REQUEST WITH REASON FOR DEVIATION & PROPOSED CHANGE, INCLUDING ALL COST, LABOR, MATERIALS, ETC. IMPACT ON PROJECT. ANY CHANGES MADE WITHOUT THE ENGINEER'S REVIEW AND APPROVAL WITH EXPRESS WRITTEN CONSENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE PURPOSE AND INTENT OF ALL DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
 - EACH CONTRACTOR, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT. COMPLY WITH SPECIFICATIONS AND AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
 - SCALE FROM DRAWINGS AT YOUR OWN RISK. PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
 - DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO BID DATE.
 - DEVIATIONS IN SIZE, CAPACITY, FIT, AND FINISH OF EQUIPMENT FROM THAT SPECIFIED HEREIN MAY REQUIRE ALTERATIONS OF THE DESIGN. DESIGN CHANGES OR CONSTRUCTION PROVISIONS REQUIRED TO ACCOMMODATE ALTERNATIVE EQUIPMENT SELECTIONS WILL BE THE RESPONSIBILITY OF THE PURCHASER. FURTHERMORE ANY DEVIATIONS MUST BE APPROVED.
 - PROVIDE A COMPLETE SCHEDULE OF SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION. CONSULT WITH OWNER TO OBTAIN WRITTEN APPROVAL FOR SHUTDOWN OF EXISTING SYSTEMS OR UTILITIES. CRITICAL SYSTEMS SHALL BE MAINTAINED IN OPERATIONAL STATUS AT ALL TIMES UNLESS A SUITABLE SUBSTITUTE SYSTEM IS PROVIDED FOR TEMPORARY SERVICE AND APPROVED.
 - COORDINATE WORK WITH OTHER BUILDING FEATURES AND AVOID INTERFERENCES WITH PIPING, DUCTWORK, EQUIPMENT, PLUMBING, AND MECHANICAL COMPONENTS. REFER TO ALL DOCUMENTS PERTAINING TO THE PROJECT FOR COORDINATION WITH OTHER TRADES TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER ELECTRICAL SERVICE CHARACTERISTICS, AND PROPER SERVICE CLEARANCES.
 - VIBRATING, OSCILLATING AND OTHER NOISE PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SYSTEMS AND SURROUNDING STRUCTURE IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE REPLACED OR REPAIRED AT MECHANICAL CONTRACTOR'S EXPENSE. FINAL APPROVAL OF THE INSTALLATION SHALL BE THAT OF THE ENGINEER.
 - ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, AND ACCESSORIES MAY NOT BE INDICATED ON THE DRAWINGS, BUT SHALL BE PROVIDED AS REQUIRED TO COMPLETE INSTALLATION. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
 - WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A MANNER THAT WILL NOT VOID OR DIMINISH THE WARRANTY OF THE MATERIAL PENETRATED. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING OR MATERIAL INSTALLER.
 - WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, SLEEVES SHALL BE COMPLETELY SEALED WITH FIRE STOP MATERIAL THAT IS U.L. LISTED. MAINTAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR.
 - VALVES, BALANCING DAMPERS, AND MECHANICAL EQUIPMENT SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS PANEL SHALL BE PLACED UNDER THE ITEM TO ALLOW FOR MAINTENANCE AND ADJUSTMENT.
 - EQUIPMENT SHALL BE 60 HZ UNLESS OTHERWISE INDICATED.
 - CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH DRAINING AND FILLING PIPING SYSTEMS AS REQUIRED TO INSTALL THEIR NEW WORK.
 - EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE RE-USED IN THE NEW WORK, EXCEPT WHERE RELOCATION OR RE-USE IS INDICATED.

PLUMBING FIXTURE AND ACCESSORIES SCHEDULE

TAG	FIXTURE TYPE	DESCRIPTION
HC	WATER CLOSET	AMERICAN STANDARD 221AA.104 FLOOR SET, ELONGATED BOWL, 1.28 GPF, TANK TYPE AMERICAN STANDARD OPEN FRONT SEAT MODEL 5901.100 TO COMPLY WITH ADA REQUIREMENTS.
LAV	LAVATORY	AMERICAN STANDARD 0355.012 WALL MOUNTED LAVATORY WITH HANGERS, SINGLE CONTROL, CENTERSET MODEL 7385.003 4" CENTER SET, BELOW DECK MIXING VALVE, CHROME PLATED SUPPLIES, STOPS AND 1-1/2" P-TRAP. PROVIDE TRAP AND SUPPLY WRAP TO COMPLY WITH ADA REQUIREMENTS.
MS	MOP SINK	PROFLO PFM2424 PREFABRICATED MOP SINK, AMERICAN STANDARD 8344.212 EXPOSED YOKE WALL - MOUNTED UTILITY FAUCET.
FD	FLOOR DRAIN	ROOM AREA FLOOR DRAIN, WATTS - FD-320-Y-4-7, 4" OUTLET, MEMBRANE CLAMP WITH ADJUSTABLE COLLAR, DIAMETER NICKEL BRONZE STRAINER WITH TRAP PRIMER CONNECTION.
TP	TRAP PRIMER	PROFLO MODEL PPR500 AUTOMATICALLY ACTIVATES WITH A PRESSURE DROP OF 10 PSIG, OPERATING RANG IS 20 TO 80 PSIG
CO	CLEANOUT	ZURN MODEL C01 ADJUSTABLE FLOOR CLEANOUT.
FPWH	FREEZE PROOF WALL HYDRANT	WATTS HY-725 NON-FREEZE WALL HYDRANT WITH NB BOX AND INTEGRAL VACUUM BREAKER
BFP	BACKFLOW PREVENTER	WATTS MODEL 3LF009, 1" BACFLOW PREVENTER WITH AIR GAP AND STRAINER
TV	TEMPERING VALVE	POWERS LF480 HYDROGUARD SERIES, ROUGH BRASS FINISH, LOW LEAD COMPLIANT WITH CHECK STOPS TO SUPPLY TEMPERED WATER SET AT 110°F.

EXPANSION TANK SCHEDULE

MARK	ET
MANUFACTURER	AMTROL
MODEL NO.	ST-5
TANK VOLUME (GAL.)	2.0
DIAMETER X HEIGHT (IN.)	8"X13"
SYSTEM CONNECTION	3/4"
REMARKS	1,2

- REMARKS:
- DESIGN OPERATING TEMPERATURE = 140° (MAX.)
 - DESIGN OPERATING PRESSURE = 150 PSIG (MAX.)

WATER HEATER SCHEDULE

MARK	WH
MANUFACTURER	STATE
MODEL NO.	SH50 76NE
STORAGE (GAL.)	50
RECOVERY (GPH)	95
BTU	76,000
EFFICIENCY	80%
VOLT/PH/HZ	208/3ø/60
REMARKS	ALL

- REMARKS:
- RECOVERY RATE BASED ON 100° TEMPERATURE RISE.
 - PROVIDE FACTORY MOUNTED T&P RELIEF VALVE.
 - ENERGY EFFICIENCY TO MEET OR EXCEED ASHRAE 90.1 RATINGS.

PLUMBING ABBREVIATION LEGEND

1CS	ONE COMPARTMENT SINK	GI	GREASE INTERCEPTOR
3CS	THREE COMPARTMENT SINK	GRS	SANITARY GREASE
@	AT	HB	HOSE BIBB
ABV	ABOVE	HD	HUB DRAIN
C/HC	WATER CLOSET/ADA WATER CLOSET	HW	HOT WATER
CLG	CEILING	HWH	HOT WATER HEATER
CO	CLEANOUT	IE	INVERT ELEVATION
COND	CONDENSATE	IM	ICE MACHINE
CONN	CONNECT/CONNECTION	IM	ICE MACHINE CONNECTION
CONT	CONTINUATION	I.W.	INDIRECT WASTE
CP	CIRCULATING PUMP	L/HL	LAVATORY/ADA LAVATORY
CW	COLD WATER	MC	MECHANICAL CONTRACTOR
CWE	EXISTING COLD WATER	NG	NATURAL GAS
DISP	DISPOSAL	PC	PLUMBING CONTRACTOR
DN	DOWN	PME	PLUMBING/MECHANICAL/ELECTRICAL
DRWG	DRAWING	RD	ROOF DRAIN
D.W.	DIRECT WASTE	REF	REFER/REFERENCE
EA	EACH	SAN	SANITARY WASTE
EC	ELECTRICAL CONTRACTOR	S	SINK
ESAN	EXISTING SANITARY WASTE	SP	SUMP PUMP
EX	EXISTING	T&P	TEMPERATURE AND PRESSURE
EXT	EXTEND	TW	TEMPERED WATER
FCO	FLOOR CLEANOUT	UR	URINAL
FD	FLOOR DRAIN	V	VENT
FFD	FUNNEL FLOOR DRAIN	VTR	VENT THROUGH ROOF
FIXT	FIXTURE	W/	WITH
FL	FLOOR	WM	WATER METER
FS	FLOOR SINK	YCO	YARD CLEANOUT
GC	GENERAL CONTRACTOR		

NOTE: ALL ABBREVIATIONS MAY NOT APPLY

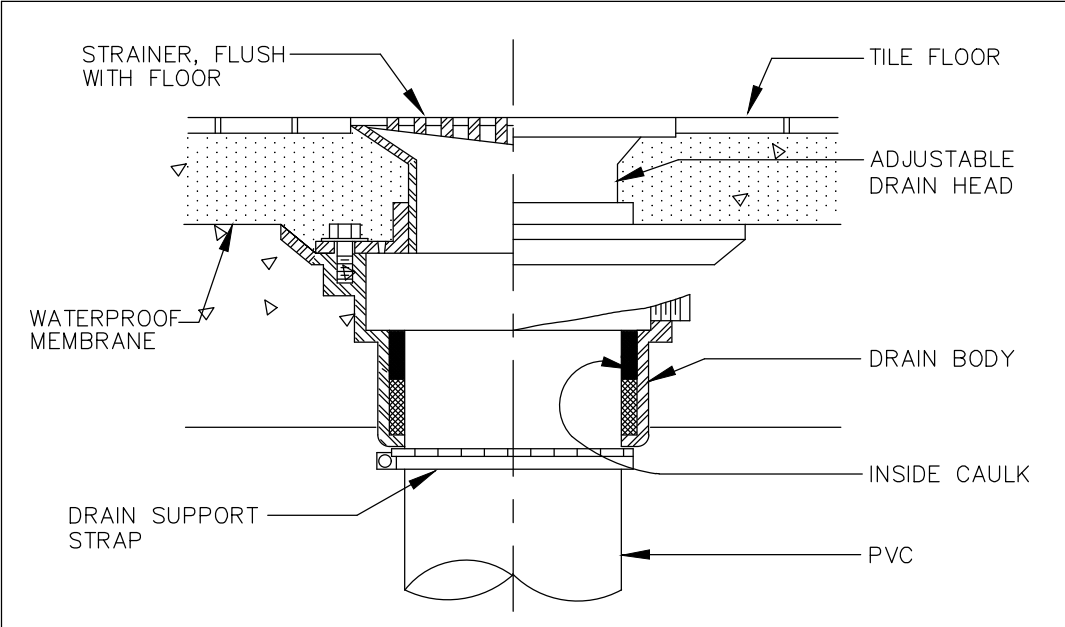
PLUMBING ROUGH-IN SCHEDULE

TAG	FIXTURE	HW CONN.	CW CONN.	WASTE CONN.	VENT CONN.
HC	ADA WATER CLOSET	-	1/2"	4"	2"
HL	ADA LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"
MS	MOP SINK	3/4"	3/4"	1-1/2"	1-1/2"

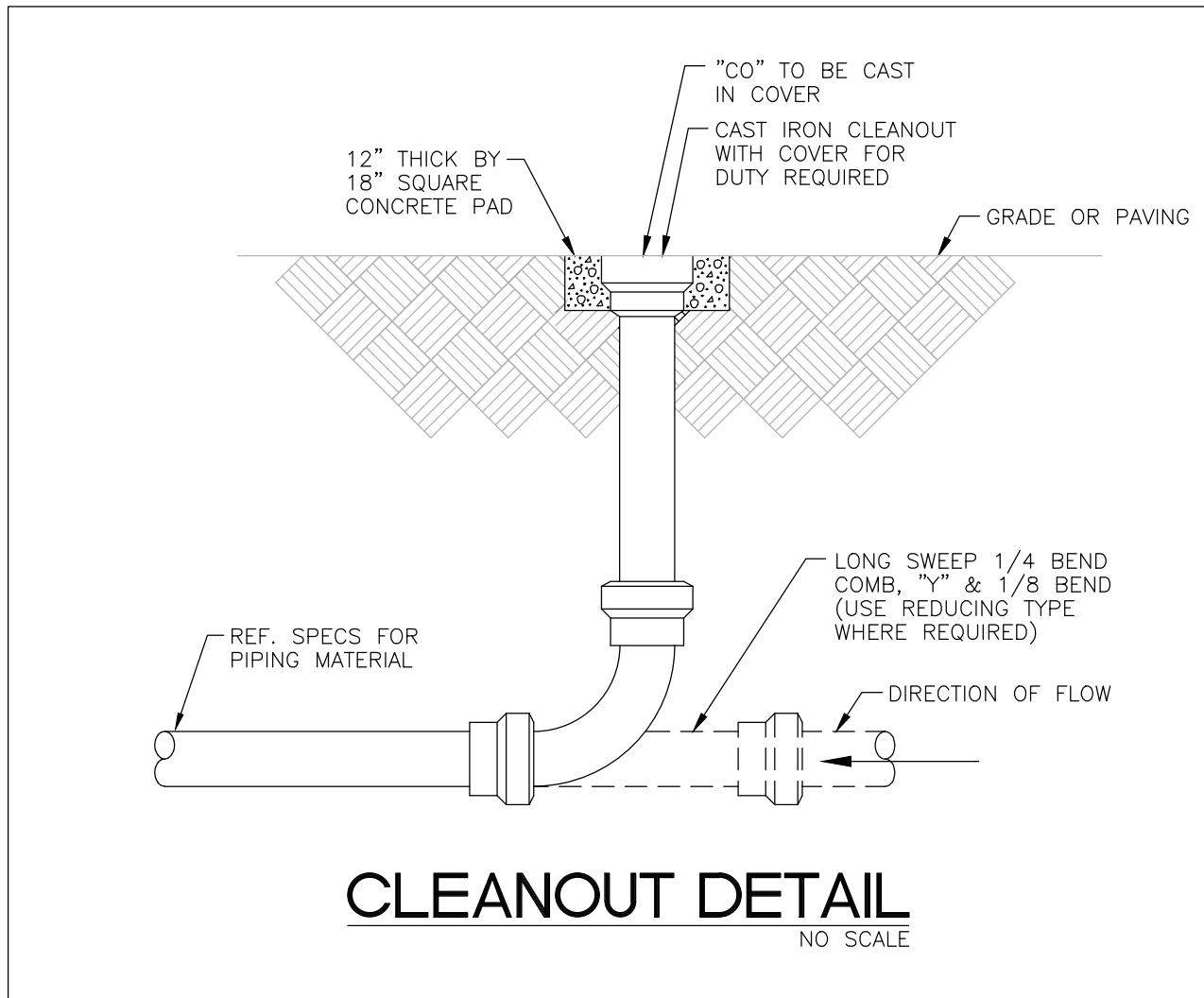
PLUMBING SYMBOLS LEGEND

--- --	VENT	ED	FLOOR DRAIN
--- --	SANITARY WASTE/STORM PIPING	CO	CLEANOUT (CO)
--- --	PIPING UP	BV	BALL VALVE
--- --	PIPING DOWN	GV	GATE VALVE
--- --	--- --	GV	GAS COCK VALVE
--- --	--- --	GV	GATE VALVE IN RISER
--- --	--- --	WH	WALL HYDRANT
--- --	--- --	HB	HOSE BIBB
--- --	--- --	+	FIXTURE STOP/WASTE CONNECTION
--- --	--- --	+	T & P RELIEF VALVE
--- --	--- --	+	CHECK VALVE
--- --	--- --	+	DOUBLE CHECK VALVE
--- --	--- --	+	CONNECT NEW TO EXISTING
--- --	--- --	+	PRE PURCHASED
--- --	--- --	+	TERMINATION POINT OF DEMOLITION

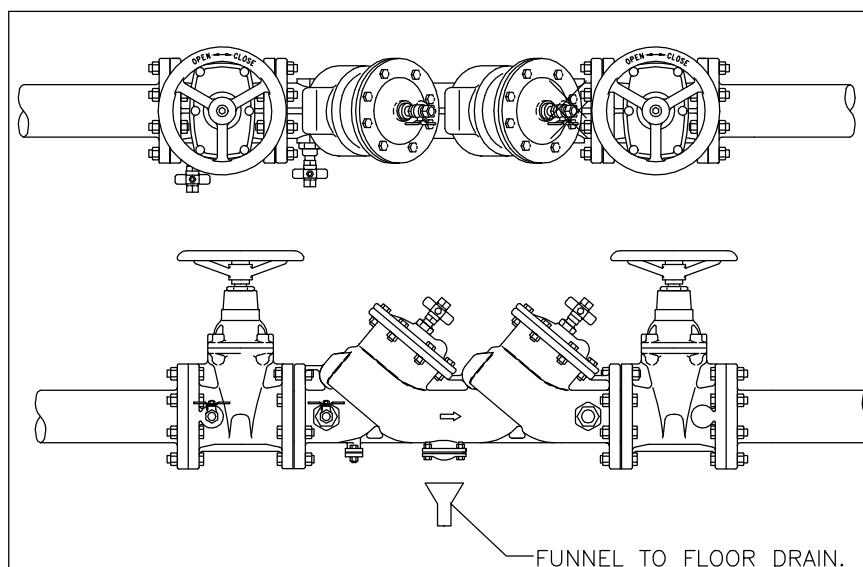
NOTE: ALL SYMBOLS MAY NOT APPLY



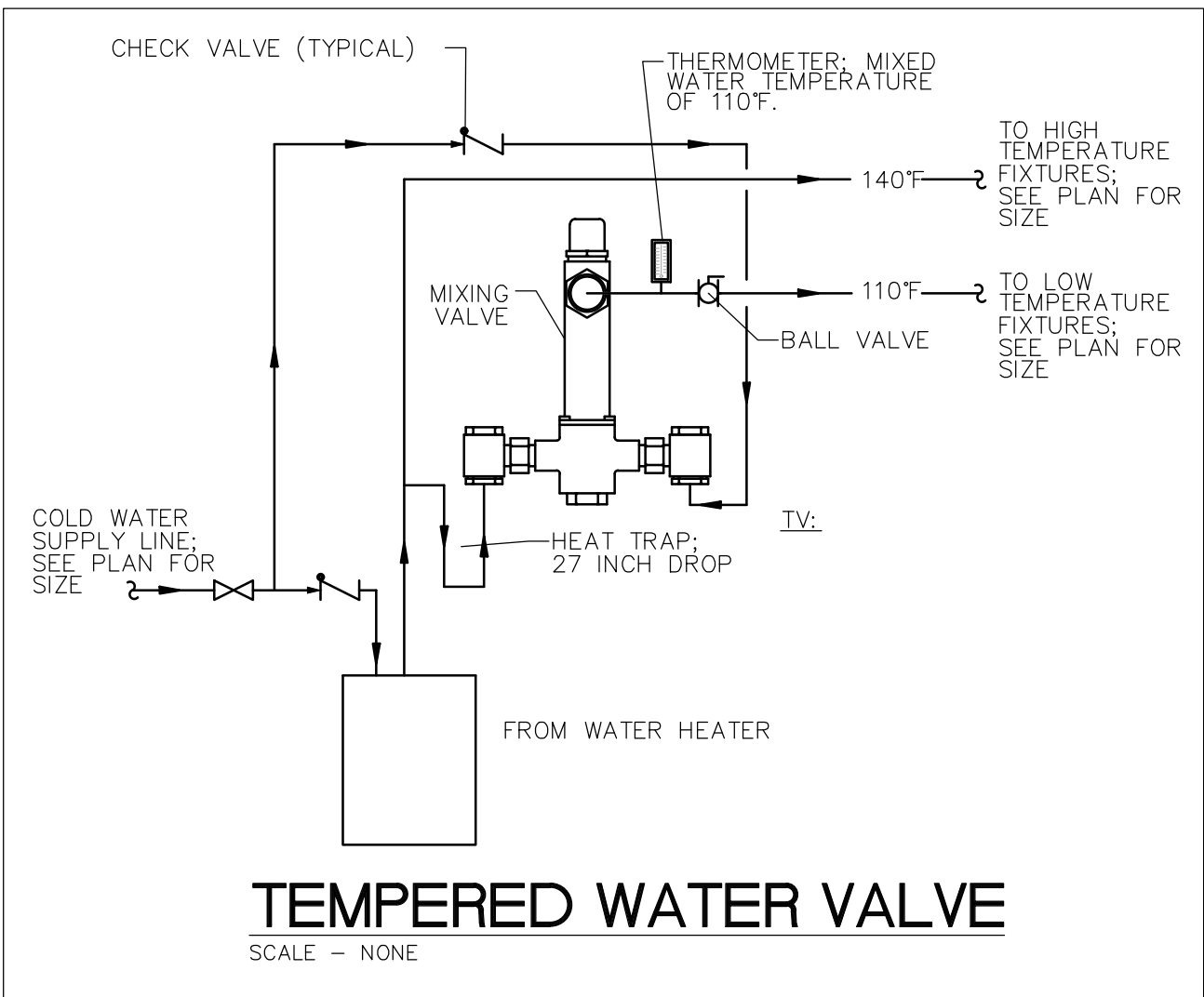
FLOOR DRAIN DETAIL
SCALE - NONE



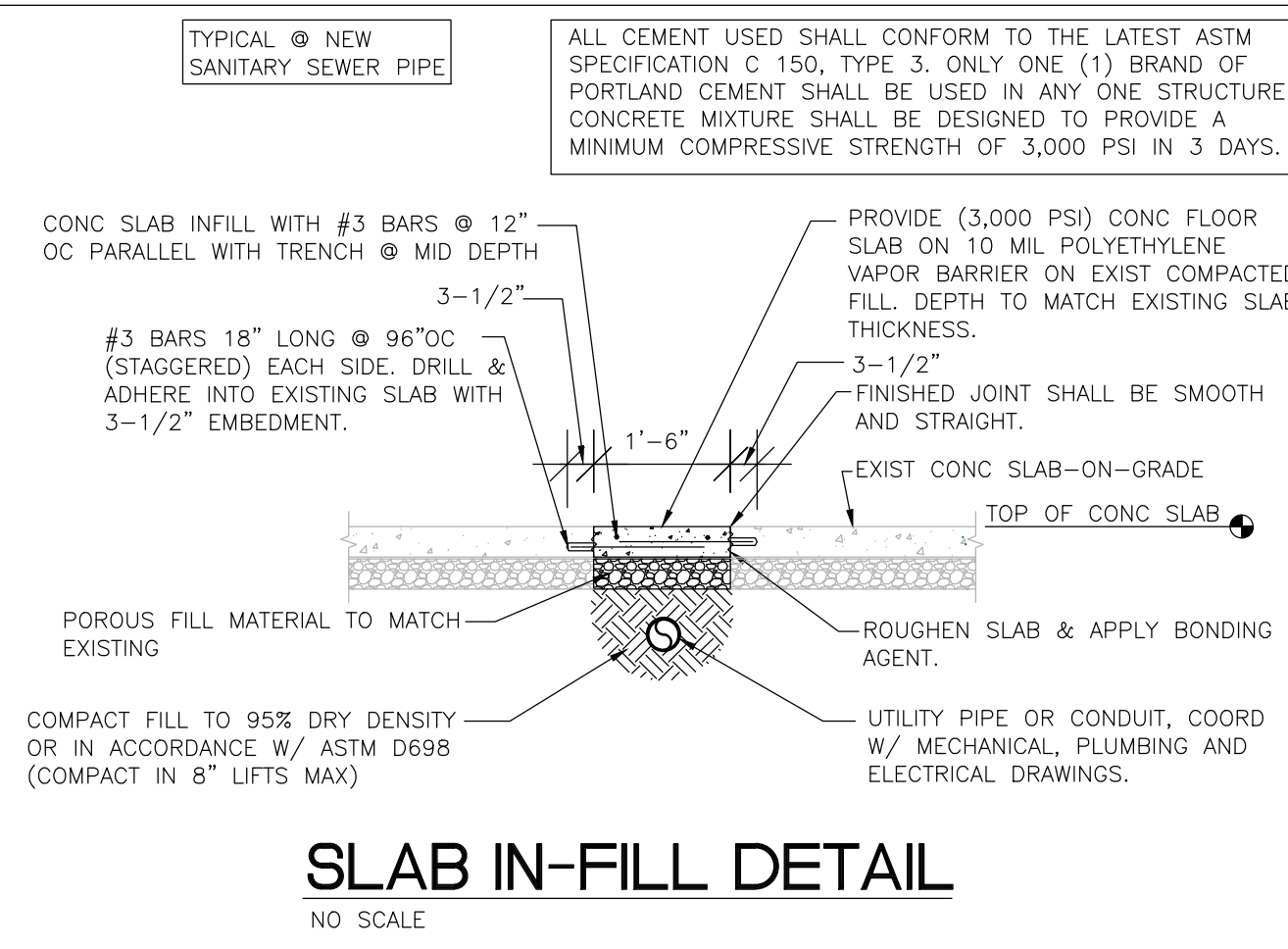
CLEANOUT DETAIL
NO SCALE



BACKFLOW PREVENTOR
NO SCALE



TEMPERED WATER VALVE
SCALE - NONE



SLAB IN-FILL DETAIL
NO SCALE

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PROJECT NO:
21-4188
DRAWN BY:
JMK
DATE:
12-02-2021

JMK DESIGN & DRAFTING, LLC
172 KEVIN PLACE
MOUNT WASHINGTON, KY 40047
PHONE: 502.387.9049

JMK
Design & Drafting, LLC

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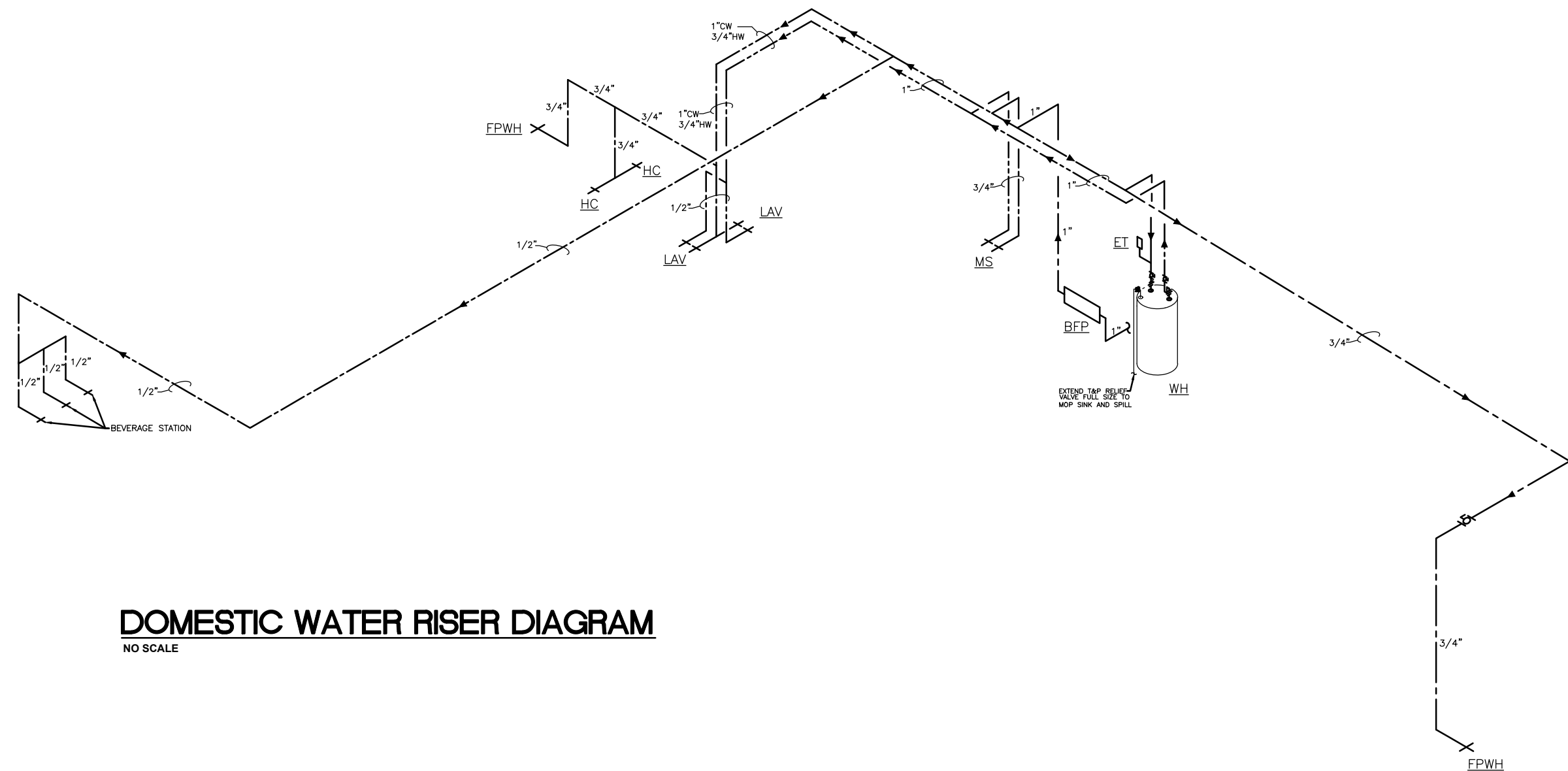
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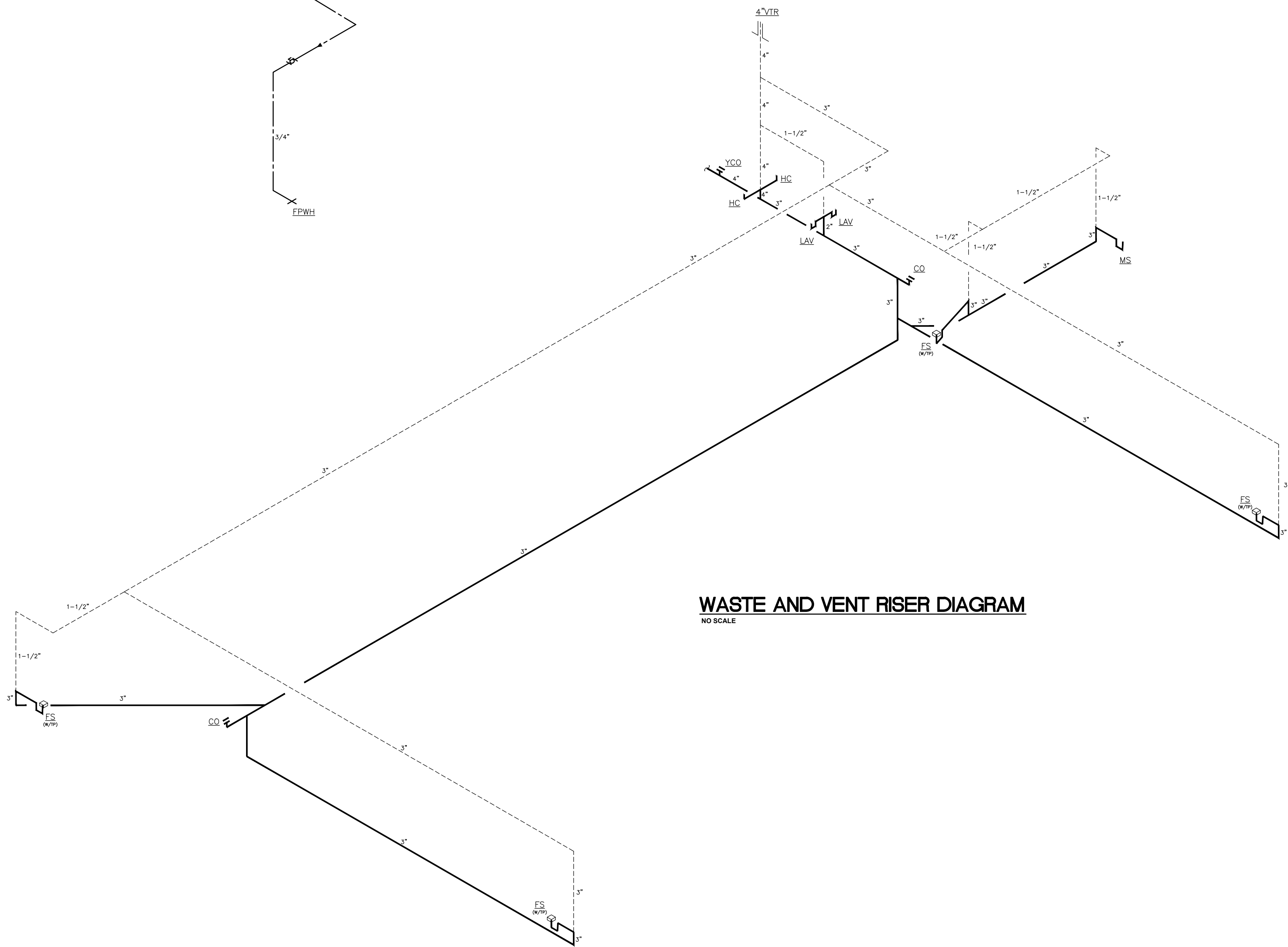
PLUMBING DETAILS

P0.1

PROJECT: ##### - FILE: 21-KEYES-004-P001.dwg - DATE: Dec 02, 2021 8:16AM - BY: JAMIE KILNER



DOMESTIC WATER RISER DIAGRAM
NO SCALE



WASTE AND VENT RISER DIAGRAM
NO SCALE

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NEW CONSTRUCTION FOR:

PATEL LIQUOR STORE

NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

DOMESTIC WATER
RISER

P0.2



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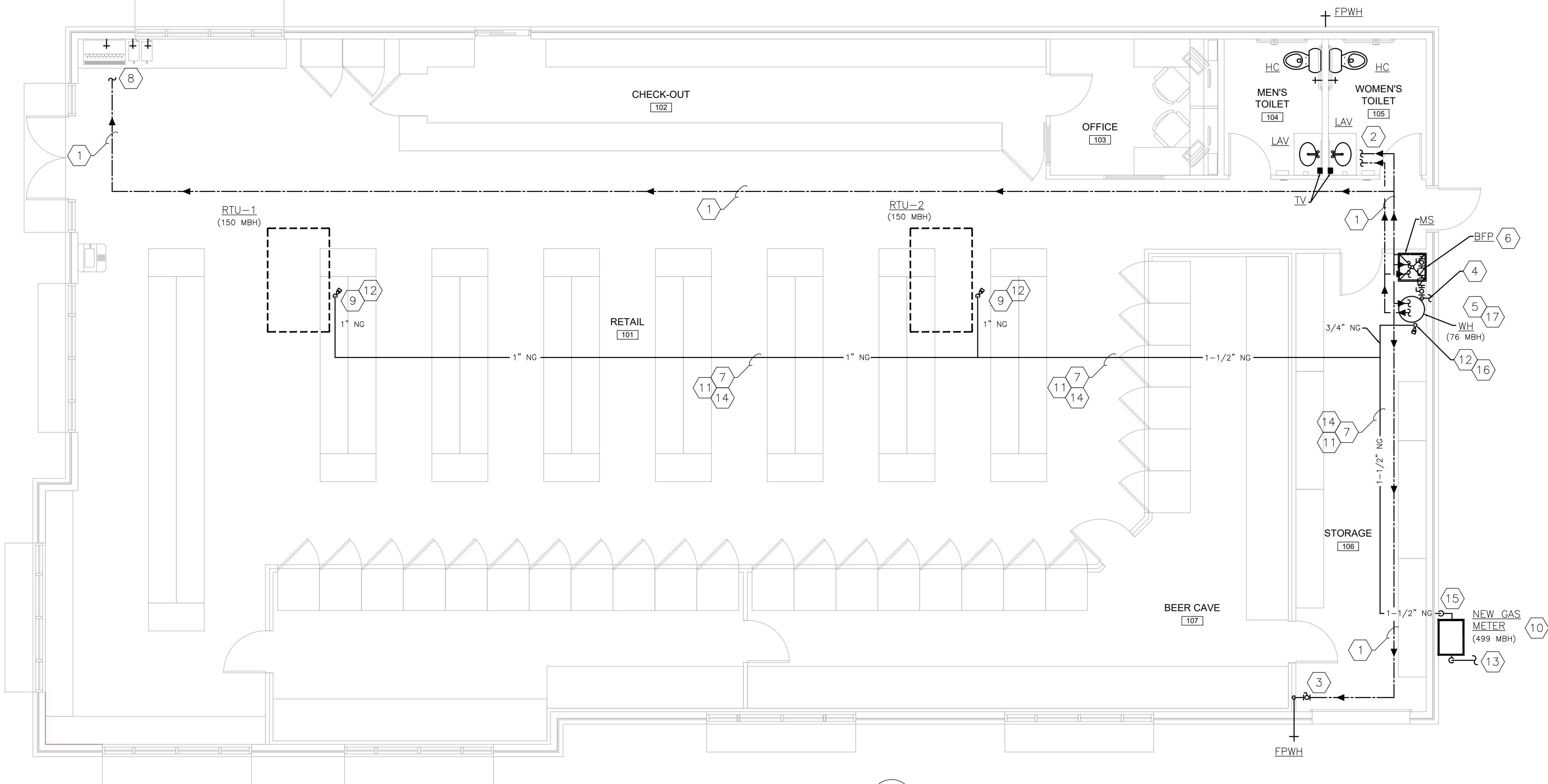
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12-02-2021

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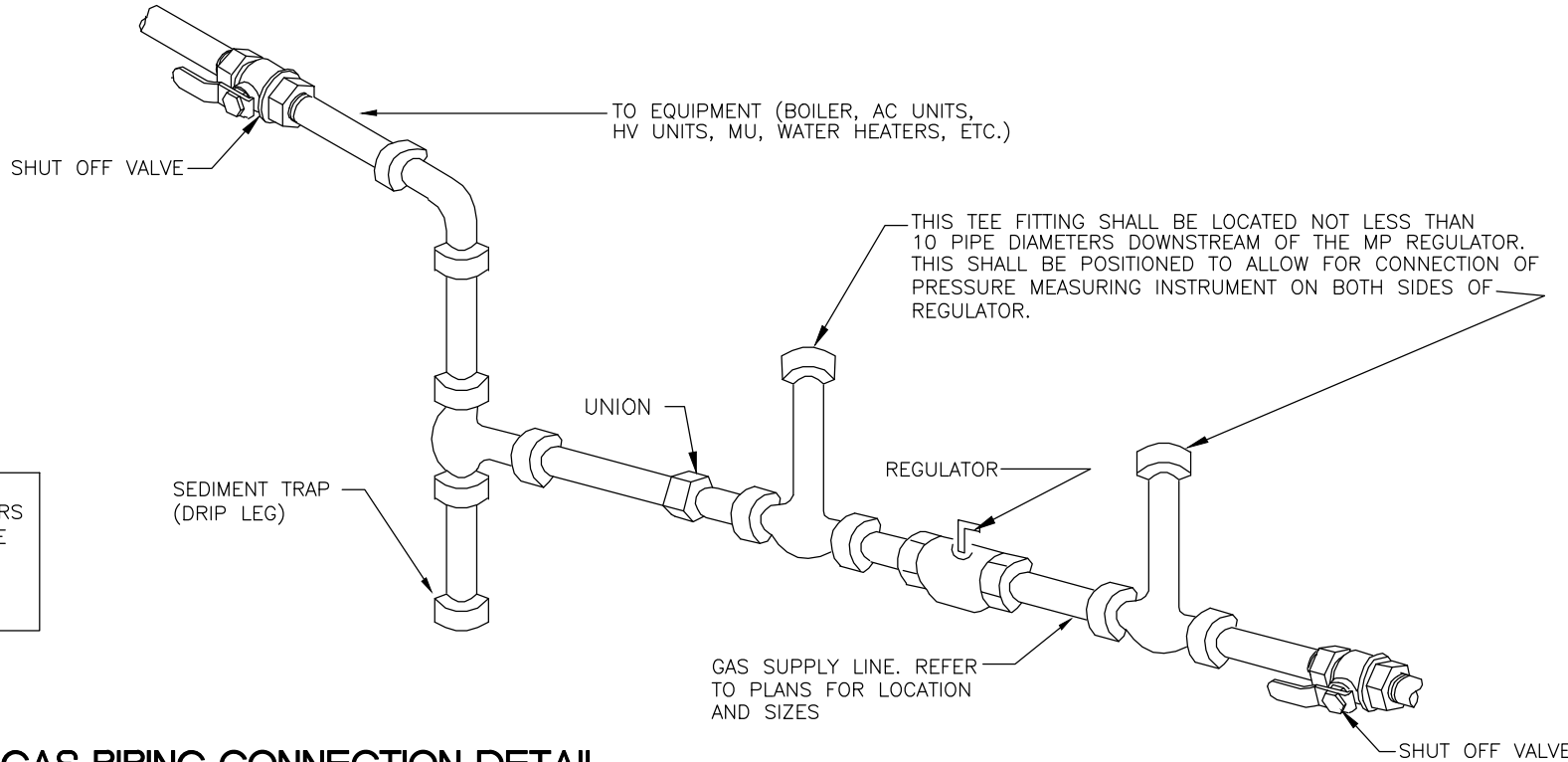


DOMESTIC WATER AND NATURAL GAS FLOOR PLAN

SCALE: 3/16"=1'-0"

THERE IS EXISTING GAS CURRENTLY ON THIS ROOF. P.C. SHALL REUSE THIS GAS PIPING PROVIDED IT IS IN GOOD WORKING CONDITION AND IS EQUAL TO THAT IS REQUIRED BY THESE DRAWINGS. VERIFY IN FIELD PRIOR TO BIDDING.

IF MEDIUM OR GREATER PRESSURE EXISTS AND PRESSURE REGULATORS ARE REQUIRED, THE P.C. SHALL SUPPLY AND INSTALL A VENT TO THE EXTERIOR OR A VENT LIMITING DEVICE FOR ALL MEDIUM PRESSURE REGULATORS LOCATED WITHIN THIS SPACE. V.I.F.



TYPICAL GAS PIPING CONNECTION DETAIL
FOR THE INSTALLATION OF PRESSURE REGULATORS
NO SCALE

PLUMBING KEY NOTES:

1. REFER TO RISER DIAGRAMS FOR ALL PIPE SIZES. (TYPICAL)
2. CW/HW LINES DOWN IN WALL AND CONNECT TO FIXTURE.
3. SHUT-OFF VALVES IN AN ACCESSIBLE LOCATION.
4. EXTEND NEW 1" CW TO EXISTING WATER AND CONNECT.
5. REFER TO DOMESTIC WATER RISER DIAGRAM ON SHEET P.02 AND GAS WATER HEATER DETAIL ON SHEET P.01 FOR CONNECTION TO WATER HEATER.
6. NEW 1" WATER SERVICE AND BACKFLOW PREVENTER P.C. TO COORDINATE WITH G.C. FOR EXACT LOCATION PRIOR TO BEGINNING OF WORK.
7. P.C. TO ROUTE GAS PIPING HIGH IN CEILING SPACE.
8. 1/2" CW LINE DOWN IN WALL AND CONNECT TO BEVERAGE STATION.
9. GAS PIPING UP THRU ROOF CURB AND CONNECT TO ROOFTOP EQUIPMENT.
10. GAS METER FURNISHED AND INSTALLED BY LG&E/KU.
11. GAS PIPING IS SIZED BASED UPON GAS PRESSURE LESS THAN 2PSI WITH 0.5" C.W. PRESSURE DROP AND 150'-0" OF TOTAL PIPE LINK AFTER NATURAL GAS REGULATOR.
12. P.C. SHALL INSTALL GAS SHUT-OFF WITH A 6" DIRT LEG.
13. EXTEND NEW GAS LINE TO CONNECT ON SITE. PC TO VERIFY EXACT LOCATION ON SITE. COORDINATE WITH SITE PLAN.
14. PLUMBING CONTRACTOR SHALL COORDINATE ROUTING OF GAS PIPING WITH MECHANICAL CONTRACTOR AND MECHANICAL DRAWINGS TO AVOID CONFLICT.
15. ALL EXPOSED GAS PIPING TO BE PAINTED WITH TWO COATS OF "TRUSTOLEUM" PAINT. COLOR TO BE SELECTED BY OWNER.
16. 3/4" GAS DOWN TO WH AND CONNECT. GAS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
17. EXTEND T&P RELIEF VALVE DISCHARGE FULL SIZE TO MOP SINK AND SPILL.

GAS LOADS SCHEDULE

MARK	GAS LOADS (MBH)
RTU-1	120
RTU-2	120
TLWH	76
TOTAL:	316

PROJECT NO:
21-4188
DRAWN BY:
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DATE:
12-02-2021

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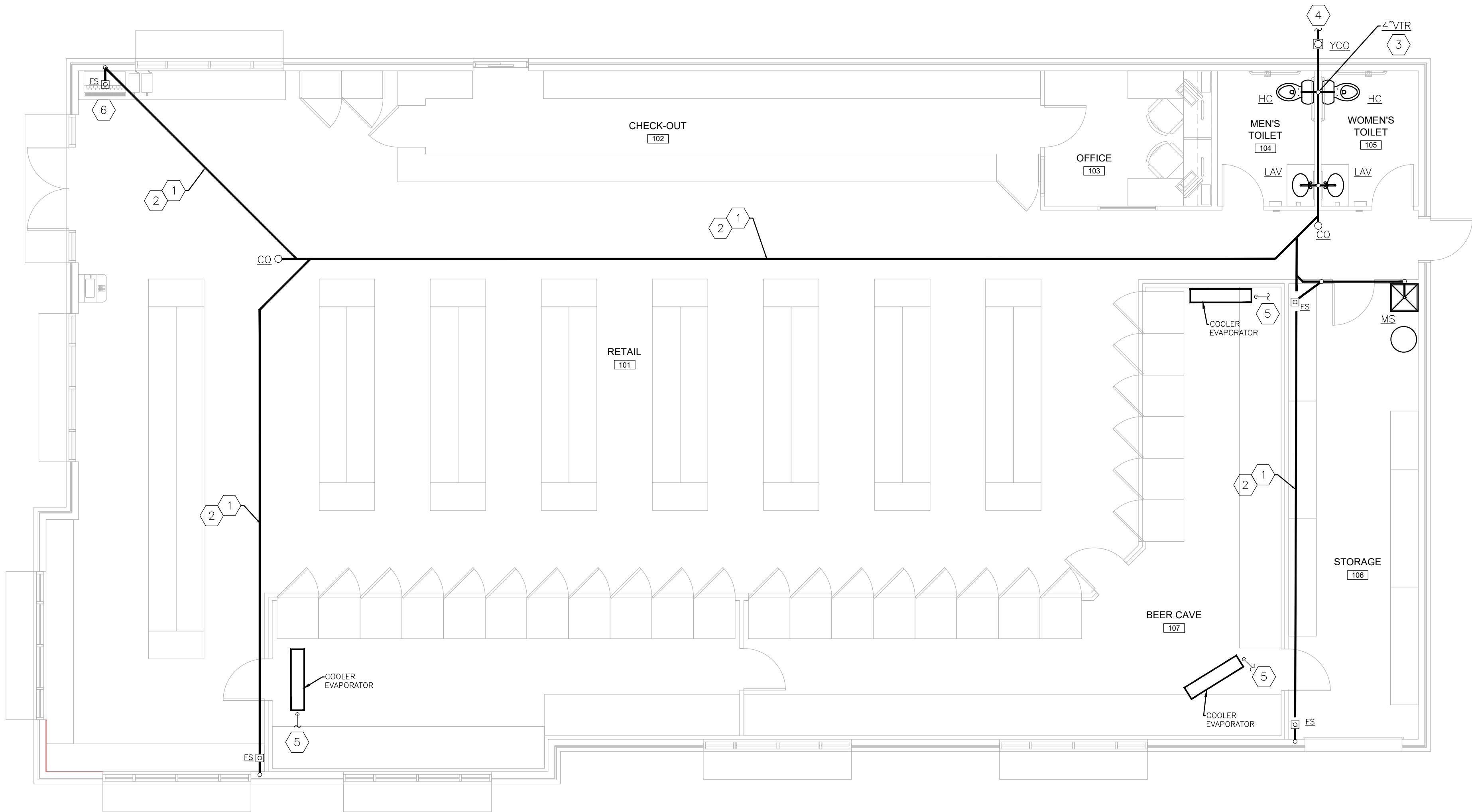
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NEW CONSTRUCTION FOR:
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PLUMBING DOMESTIC
WATER AND GAS PLANS
P1.1

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SANITARY SEWER FLOOR PLAN

SCALE: 3/16"=1'-0"

PLUMBING KEY NOTES:

1. REFER TO RISER DIAGRAMS FOR ALL PIPE SIZES. (TYPICAL)
2. PC SHALL COORDINATE CUTTING, BACKFILLING AND PATCHING EXISTING FLOOR AFTER UNDER GROUND PIPING IS INSTALLED WITH G.C.
3. PC SHALL COORDINATE WITH GENERAL CONTRACTOR TO USE THE LANDLORD ROOFING CONTRACTOR FOR VTR.
4. EXTEND NEW WASTE LINE AND CONNECT TO EXISTING. VERIFY EXACT LOCATION ON SITE AND INVERT ELEVATION OF EXISTING AND FLOW DIRECTION OF WASTE PIPING.
5. EXTEND CONDENSATE DRAIN FROM COOLER TO FLOOR SINK SPILL. COORDINATE LOCATION OF DRAIN CONNECTION WITH COOLER SUPPLIER AND OR GC.
6. EXTEND BEVERAGE DRAIN TO FLOOR SINK AND SPILL. COORDINATE LOCATION OF DRAIN ON SITE.

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NEW CONSTRUCTION FOR:
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PLUMBING SEWER
PLANS

P1.2

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GENERAL NOTES AND SPECIFICATIONS

01000 GENERAL

- A. These drawings and specifications are for general guidance, with the understanding that the Owner will negotiate directly with a contractor for proper execution of work to assure completeness and code compliance.
- B. All contractors are to guarantee their work for a minimum of one year from date of acceptance and turnover of a completed project. Longer guarantees are required where specified elsewhere in these documents .
- C. Contractor to verify the information contained in these plans in field (V.I.F.) and immediately notify the Architect of any discrepancies.
- D. The Contractor shall carefully study and compare these contract documents and shall at once report and discovered items to the Owner and Architect any errors, inconsistency , or omissions that cannot be resolved by standard industry practices. Do not proceed with work until clarifications have been made by the Architect and notification has been given to proceed .
- E. Keyes Architects & Associates has a set number of drawing sets that we have guaranteed the owner / client by contract. These documents are the owner's / client's to use as they see fit but it was intended for their use to create additional documents and for permitting purposes. In addition, Keyes will supply at no additional charge a PDF set of the supplied paper set of drawings to the owner / client. Any additional sets beyond the sets supplied will be considered extras and will be billed accordingly by Keyes Architects & Associates current rates table. It is the responsibility of the General Contractor to acquire this PDF set from the owner for the purposes of making additional sets and to pay for all needed construction sets.
- F. Before bidding, General Contractor and all Subcontractors are responsible for obtaining all bid documents including but not limited to construction documents and specifications. Contractor is responsible for reviewing other trades work that directly affects their trade, to ensure that no conflict is present. Should a conflict arise as a result of design difference with other trades, subcontractor should use industry standard practices to bid and create a product to accomplish the design intent of the construction documents and include it as part of their bid. Then the General Contractor shall be notified of the intended changes in order that these changes can be discussed with the architect and coordinated with other trades that are affected.
- G. Where drawings do not specifically show how work is to be executed, the subcontractor responsible for the work will be responsible for figuring out and bidding an acceptable industry standard method of completing the work.
- H. Where plans and specifications conflict, specifications shall supersede plans. Where plans and details conflict, the more detailed (larger scaled) item will take precedence. If it is unclear as to the intent of the work due to the conflict, notify the Architect immediately before proceeding.
- I. Contractors are not to scale the plans for missing or unclear information. Where plans are unclear, verify with architect before proceeding .
- J. Contractor's bids are to be complete and to include all material, labor , and facilities required to complete the work shown on drawings and specified herein.
- K. All Subcontractor questions concerning bidding, the drawings, or site visits shall be directed to the General Contractor.
- L. All Subcontractors shall obtain any specific permits and code review for their trade. General Contractor will obtain overall construction permit.
- M. The Owners may have other contractors, workers and suppliers engaged on this project. Verify exact limits of responsibility during bidding and coordinate with all work being conducted under other contracts.
- N. Payment of Monthly Draws for work completed to date is based upon receipt of lien releases and site inspections. Items listed as complete on the draw but not completed to the owner's and architect's satisfaction, must be completed or removed from the draw before payment will be made. All outstanding invoices for this project from all subcontractors and suppliers will be paid and a lien release issued from the general contractor in charge before payment will be made.
- O. Final Payment of all portions of this project is based upon receipt of lien releases, warranties and maintenance/operations manuals for all items.
- P. For all sections in these documents where multiple colors, finishes, and/or material choices occur and where the owner can only make these choices after the contract has been awarded , this contract is to include the most restrictive and/or expensive of the choices given so the owner can make a choice at a later time without change orders. Should the owner make a choice that is less expensive than what were bid, then the owner is to be credited back the difference between what was specified and what was selected .
- Q. Value engineered items and/or approved equals are to be submitted as part of the bid package for approval by the owner and architect. Due to limited bidding time, owner and architect cannot/will not review products during bidding for equality or equivalency to these documents. Owner and architect will approve these items as part of the bid review and may ask for proof of product equality, product specification and clarification, resubmittal of original items, or other requirements as a condition of acceptance of any and all bids. Items not listed on bid forms and submitted as part of bid package are assumed to be as specified in these documents and any item not meeting these documents can be asked to be replaced or a change order applied to the project in the amount of the difference of the original item specified at the owner's and architect's discretion.

02000 SITE-WORK/FOUNDATIONS

- A. Perform all excavations, backfilling and grading, as well as paving, required to complete work shown. Contractors shall take this data and submit in their bid any changes necessary for completion of the project. Provide positive drainage throughout the site from the parking areas and away from the building.
- B. Protect against damage to any lawns, shrubs, trees, roads, walks, signs, underground tanks , etc., and other work that is to remain in place.
- C. Materials to be excavated are assumed to be earth or other materials that can be removed by power shovel or other normal excavating equipment, but not requiring the use of explosives or drills. If other conditions are encountered within the limits of the excavation, notify Architect immediately.
- D. All building and column footings shall bear directly on undisturbed soil, unless specifically designed otherwise herein to bear on other subsurface.
- E. Assumed bearing capacity as indicated by Owner is 2,000 lbs. s.f., unless otherwise note on the plans or by Geotechnical reporting. If this bearing capacity is not encountered at the depth shown on drawings, the site contractor shall notify the general contractor. The general contractor, architect, engineer, and other parties will then establish an additional volume of excavation.
- F. Building slab areas, drives, walks and parking areas that require undercutting or fill are to be backfilled with lean clay or granular fill, uniformly compacted to at least 95% standard proctor (ASTM D698). Periodic field density testing to be performed during construction if required and paid for by the Owner.
- G. General Contractor to include additional cost breakout in their initial bid for either the trench excavation or mass excavation of rock if it is determined to be necessary. Bids are to include all markup, overhead, disposal , and grading at lower areas of this site.
- H. Furnish and install all site items as shown on the drawings or list herein .
- I. Furnish and install sod within 3' of all concrete walks and building areas. Seed and straw all other disturbed earth areas.

- J. Contractor to include all erosion control measures necessary. Erosion control measures are to follow those policies, standards and practices as set forth by the civil plan and/or all federal, state, and local requirements. The contractor will be responsible for maintaining all erosion control measures and maintaining all documentation as required. Any penalties occurred as a result of failure to maintain these controls shall be the responsibility of the contractor and the owner shall bare no responsibility for these penalties unless there is documented proof that these penalties were as a result of neglect from the owner or his representatives.
- K. If a landscaping plan has not been provided as part of these documents and a cost determination cannot be made, an allowance of \$10,000.00 is to be included in the bid to furnish and install landscaping as to be determined by the owner.
- L. All existing excavated material that cannot be used as fill will be wasted on site in areas as directed by owner. The material will be spread, compacted, smoothed and disced. The excavated material will then be seed and straw as indicated above.
- M. Foundation excavation
- Follow OSHA and local requirements for determining the angle of repose. No angle of repose can be assumed when soil is under adverse moisture conditions. Use forms where concrete surfaces are shown vertical or steeper than the angle of repose.
 - Cut earth neatly for grade beams and footings, excavate by hand if necessary, to remove all loose material and disturbed earth.
 - Replace disturbed earth and over-excavated locations with fill concrete.
 - Keep excavations constantly shored and dewatered.
 - Pour footings only after excavations have been individually inspected and approved.
 - After inspection and approval, place concrete promptly before any change in excavation conditions occur.
- N. Trenching and backfilling for drain pipes
- Commence from low point so excavation and pipe can be kept drained at all times.
 - Width to be sufficient to make joints and compact backfill under pipe.
 - Final excavation to be done by hand so pipe rests continuously on solid earth except where backfilled with cement stabilized sand.
 - After placing pipe, immediately place some backfill to hold the pipe; compact sufficient backfill under the pipe to hold it securely against any possible movement: do not cover until inspected.

02741 ASPHALT PAVING

- A. If paving details are not specified on the site plan, then new paved areas shall have a minimum 6" thick DGA with a minimum 2" layer of asphalt binder course and 1" layer of asphalt surface course rolled separately. All new paving heights to be adjusted as required in order to match the existing pavement height.
- B. Existing paved areas to be repaved, shall have all damaged areas removed and then be reconstructed to match the above. Install minimum 1" thick topping over existing paved areas to remain.
- C. All paving shall conform to State Highway specifications for material and installation.
- D. If Paving is anticipated in winter, the surface coat may have to wait until spring. Cost of paving to be completed may be held by the owner (if necessary) until final completion.

03000 CONCRETE

- A. Concrete to be dimensions shown on drawings and reinforced as detailed.
- B. Concrete shall develop a minimum compressive strength of 4000 psi at 28 days.
- C. Contractor to make (3) concrete cylinder samples for every 150 cubic yards (or fraction thereof) of concrete placed per day. Concrete cylinders are to follow the practices set forth in ASTM C31 for Standard Practice for Making and Curing Concrete Test Specimens in the Field and ASTM C172 for Standard Practices for Sampling Freshly Mixed Concrete. Samples are to be taken from the middle of a truck load and not the beginning or ending portions. All cylinders are to be labeled, dated and stored on site in the same environment as the concrete placed. Owner, architect or construction manager may call for testing of these samples at any time. Owner will pay for testing as needed.
- D. Interior floor slabs are to receive smooth trowel finish.
- E. Exterior concrete drives, walks and stoops are to be light broom finished in the direction of water flow, unless noted otherwise.
- F. Concrete Curing and Sealing Compounds are to be surface applied solvent which cures, seals, hardens, and dustproofs.
- Unfinished Exposed Interior Concrete Floors are to receive "Intraseal" by Comspc or approved equal. Verify existing conditions before starting work. Apply product per manufacturer's requirements and recommendations.
 - All other concrete slabs to receive "Cure 'N Seal" by Sakrete, "Seal Cure-25" by W. R. Meadows or approved equal. Verify existing conditions before starting work. Apply product per manufacturer's requirements and recommendations. Before starting work, verify that selected cure and seal product is compatible with the anticipated finished floor and sub finishes.
- G. All concrete floors are to have a vapor retarder installed before the concrete is placed. Vapor retarder is to be as specified in the latest ASTM E 1745 and have the following properties: a minimum of 0.03 permeability, 5lb puncture resistance, and 45.0 lb./in tensile strength. Retarder to be installed per manufacturer's recommendations and specifications.
- H. Materials and construction methods shall conform to the latest requirements of ACI 318-83.
- I. All exposed 90-degree edges of vertical and horizontal corners of concrete shall have tooled edges, unless indicated otherwise.
- J. Reinforcing steel shall be A615-83 Grade 60. Contractor may use Fibermesh equivalent reinforcing in 4" slabs on grade, but elevated slabs must have wire reinforcing as shown.
- K. Welding of or to reinforcing bars without prior approval of engineer is prohibited except where specified on the drawings.
- L. All reinforcing bars are to be supported in the form and spaced with wire bars supports meeting the requirements of the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315-latest edition).
- M. All detailing, fabrication and erection of reinforcing bars, unless otherwise noted, must follow the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315-latest edition).
- N. Concrete walks shall have molded expansion joint material as shown. Final joint layout to be approved by Owner.
- O. Control joints (C.J.) shall be saw-cut a minimum of 1/4 of slab thickness and with a maximum spacing as shown on the drawings.
- P. Isolation joints (I.J.) if required shall receive 1/2" thick expansion joint filler extending from bottom of slab to 1/2" below top of slab and the top 1/2" filled with Polyurethane joint sealant, unless otherwise noted.
- Q. Construction joints (Const. J.), if required, shall be formed using "Key-Loc Joint System" manufactured

by Form-A-Key.

- R. All dimensions and grades shall be verified in the field (V.I.F.) by the contractor and any discrepancies or interferences shall be reported to the Architect before proceeding with affected work.
- S. Where shown, all junctions of walls, piers and floors to have 1/2" wide expansion joints, filled with elastic expansion joint material.
- T. Exposed foundation walls to have rubbed finish. Any honeycombing that occurs that is less than 4" in diameter is to be filled and finished with a non-expanding grout. Contact the architect immediately for any honeycombing that is 4" or greater in diameter, for review of the concrete and resolution of the issue.
- U. Concrete Contractor to place all exterior equipment pads unless otherwise directed during bidding. Coordinate final size, details and locations with the applicable sub-trades.

04000 MASONRY

- A. Masonry subcontractor to be responsible for water-tightness of his work.
- B. Workmanship, including joint reinforcement and cold weather installation shall comply with National Masonry Associations applicable recommendations.
- C. Masonry contractor to brush clean final surfaces and prepare exterior faces for paint or sealer as called out.
- D. Provide control joints as indicated on elevations, with backer rod and paintable elastomeric caulk.

04700 SIMULATED MASONRY - MANUFACTURED STONE

- A. Manufactured lightweight stone veneer to be installed over moisture barrier approved for stucco type installations, with metal lath and fasteners as required by manufacturer's specifications.
- B. Moisture barrier is to be Tyvek Stucco Wrap by DuPont or approved equal.
- C. Metal lath to meet ASTM C847, 18ga. woven wire or approved equal.
- D. Mortar and grout to be type S mortar meeting ASTM C270 standards, with additional bonding agents as per manufacturer's specifications.
- E. Stone is to be by Coronado Stone, Eldorado Stone or approved equal. Style and color is to be selected by owner from a standard line of products. Provide samples for owner to choose from.
- F. Before installation of product, the mason is to supply a sample wall for owner's approval.

05000 METALS

- A. Provide structural and miscellaneous metal items as shown on drawings, and as required to complete the project.
- B. Furnish shop drawings to satisfy local code requirements, fabricate materials and install all metal work as needed. This shall include structural steel and miscellaneous steel items.
- C. Take field measurements prior to fabrication. Subcontractor shall be responsible for the accuracy of all such measurements and the precise fitting and assembly of the finished products.
- D. Use materials of size and thickness indicated or, if not indicated, as required to develop the maximum loads in the member. Weld corners and seams continuously, complying with AWS recommendations. Provide for anchorage of type shown, coordinated with supporting structure. Fabricate and space anchoring devices to provide adequate support for intended use.
- E. Clean and Shop paint miscellaneous metal work, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded unless otherwise indicated.
- F. Furnish bent or otherwise custom fabricated, plates, anchors, hangers, dowels and other miscellaneous steel shapes as required.
- G. Provide loose bearing and leveling plates for steel items bearing on masonry, concrete construction, or other portions of the structure as indicated.
- H. Provide miscellaneous steel elements, framing and supports that are not a part of structural steel framework, as required to complete work.
- I. Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications to in-place construction; including, threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws and other connectors as required.
- J. Provide A-325 bolts as shown on the plans or as required to develop the maximum capacity of the connection shown.
- K. Perform cutting, drilling and fitting required for installation of miscellaneous metal fabrications.
- L. Field Welding shall comply with AWS Code for procedures of manual shielded metal-arc welding, appearance and quality of welds made, and methods used in correcting welding work.
- M. Touch-Up Painting immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material used for shop painting. Apply by brush or spray to provide a minimum dry film thickness of 2.0 mils.

N. Miscellaneous Items:

- Zinc-coated fasteners for exterior use or where built into exterior walls. Select fasteners for the type, grade and class required.

06000 CARPENTRY

- A. All wood in contact with concrete or masonry or to be exposed on the exterior to be pressure treated against decay and insects.
- B. Carpenter shall furnish all necessary blocking and grounds for all tops, cabinetry items, handrails, casework and other miscellaneous items as needed.
- C. Provide small areas of wood framing where shown for shelves or equipment by owner.
- D. Carpenter to furnish & install all moldings, trim work and finish hardware (at windows, doors, handrails, and platform areas). Also, shelving, brackets, rods and hangers as shown. Exposed wood trim and moldings to be paint grade spruce or fir, (finger joints allowed).
- E. Furnish and install all rough & finish carpentry including rough hardware, form work indicated and required to complete the project.
- F. Wood framing is to follow good practice and code requirements for fire blocking and wood blocking. Verify fire blocking requirements with the building inspector before completing the frame work.
- G. Provide bridging at all exterior walls and interior load bearing walls, at midpoint of walls for walls up to 9'-4" high, at 1/3 points for walls 9' - 12' high, and at 1/4 points for walls up to 13'-4" high. The bridging shall be 2 x 6 or 2 x 4 as appropriate, matching the studs used in the remainder of the wall.
- H. Framing contractor is responsible for bracing required to resist seismic, wind, and live loads specified and required by I.B.C. Provide let-in and G.W.B. bracing as noted on Sheet Set.
- I. Remove all wood including form lumber, scrap lumber, shavings, and sawdust in contact with the ground. Leave no wood buried in any fill.
- J. All lumber and plywood shall be graded and marked in accordance with the latest grading rules of the

- Manufacturer's Association having jurisdiction. Plywood decking shall be tongue and groove or to be blocked at all joints, and to be glued to all supporting members.
- K. All materials shall be delivered and stored to insure proper protection from damage. All material shall be well seasoned.
- L. Framing lumber to be stress graded lumber (1250 f. Minimum) #2 yellow pine or approved equal of other species of the following minimum unit strengths in #s per SQ. IN: FB = 1,200; H = 105; C (perpendicular) = 390; (compression parallel to grain) C= 900; and E = 1,760,000.
- M. Studs & Plates to be furnish and install as specified, detailed and required. Materials shall be straight and without defects that will impair the strength or alignment. Double studs at openings, triple at corners.
- N. Double top plates to have (2) 16d through at each stud through plate. Secure upper member of top plate with (2) 10d at each end and 16d at 16" o.c. staggered. Double members secured with 16d at 12" o.c. staggered.
- O. Exterior O.S.B. sheathing to be nailed to studs at 12" o.c. staggered.
- P. Install all joists with crown up. Double jousts at openings, unless noted to be greater. Double members secured with 16 d at 6" on center, staggered. Laps over supports secured with a minimum of (4) 10d, (3) 20d through header into joists ends. Block solidly at plywood joints.
- Q. Header beams for openings in wood framed walls are to be double members with 1/2" plywood between as follows: (2) 2 x 4's for openings 30" wide or smaller, (2) 2 x 6's from 30" up to 48" wide, (2) 2 x 8's from 48" up to 72" wide, and (2) 2 x 10's from 72" up to 96" wide. Framing for openings wider than 96" must be coordinated with the architects.
- R. On exterior framing use galvanized, electroplated 16d nails. Interior nails are to be common coated 16d nails unless otherwise notes.

06175 PRE-ENGINEERED WOOD TRUSSES AND PRE-ENGINEERED JOISTS

- A. Before bidding, supplier / designer of the trusses and joists is responsible for obtaining all bid documents including but not limited to construction documents and specifications. Supplier / designer is responsible for coordinating final design of this product with all other trades, including but not limited to all roof top loads, spacing for ductwork and other miscellaneous design loads. Should a conflict arise as a result of design difference with other trades, this designer should use industry standard practices to bid and create a product to accomplish the design intent of the construction documents and as part of this bid, then notify General Contractor of the intended changes.
- B. Trusses or pre-engineered joists are to be of profile shown on building sections and details.
- C. Number of panels points, member sizing, grade, and species as designed by the truss manufacturer.
- D. The design is to be the responsibility of the manufacturer, who is responsible for meeting all requirements of I.B.C. This includes the truss girders required at spans as shown on Sheet Set.
- E. The scissors trusses shall be designed with a pinned connection at one end of the trusses and a roller connection at the other end support condition.
- F. Proper installation and anchoring of all members and anchoring of the trusses for adequate strength are the responsibility of the framing contractor. Anchoring to be an appropriate strap or tie as recommended by manufacturer, and federal, state and local code requirements. System to be by Simpson Strong-Tie or equal.
- G. Design of all trusses and joists are to be based on maximum deflection of L/360.
- H. Bearing web members of floor trusses are to be designed to carry the axial load of the stud wall above.
- I. The manufacturer is to provide shop drawings and structural calculations stamped by a state registered structural engineer of the state work to be performed in, before fabricating the trusses.
- J. Design of trusses and handling and erection of trusses, including temporary and permanent bracing, is to follow the latest edition of the specifications of the Truss Plate Institute. Refer to Section 1000 item B of these specifications with regards to inconsistencies.
- K. Design is to include sizing and spacing of bracing members.
- L. Trusses are to be designed to the following minimum loads:
- (NOTE: Greater snow loads required at valleys, roof level changes, etc. per I.B.C. Code requirements supersedes these loads.)

Roof Trusses

Wind Load	15 psf
Snow Load	20 psf plus snow load build-up at valleys and roof level changes per I.B.C. plus roof top equipment as directed by the Contractor.
Top Chord D.L.	10 psf
Bottom Chord D.L.	5 psf
Uplift	12 psf (9 in excess of D.L.)

06410 WOOD CASEWORK

- A. Furnish and install a complete system for cabinets and casework following the standards set forth by AWI and millwork best practices.
- B. Cabinets to be oak finish MDF board with overlay doors, wire pulls and fully adjustable plywood shelves, by "Merillat" or approved equal.
- C. Tops to be square edge, plastic laminate covered with 4" splash at all walls, scribe fit. Colors to be selected by owner from standard lines.
- D. Provide elevations and shop drawings for review by owner.

07000 MOISTURE PROTECTION

- A. Insulation:
- Roll glass fiber insulation to be thickness and type shown on drawings for specific uses, to be "Fiberglass" or "Celotex".
 - Rigid below grade insulation at foundation and basement walls to be extruded, expanded polystyrene 2" thick (R-value: 5), unless otherwise noted on the plans.
- B. Caulking:
- Use Sherwin Williams 950A siliconized acrylic latex caulk, GE Silicone II or approved equal. Color to match surrounding area being caulked. Caulk all exterior joints and both sides of all door and window frames.
 - All Equipment, Mechanical, Plumbing and Electrical Contractors shall supply all flashings and curbs for roof or wall penetrations to the General Contractor. General Contractor shall install and flash all building penetrations as part of their bid project.
 - All exterior basement walls to receive exterior rubberized asphaltic damp proofing system. Acceptable systems to be by Hydrotech, Hydro-Shur, Grace, Mar-Flex or approved equal. Entire system to be installed per manufacturers recommendations.
 - Where called out on the drawings, fire caulk to meet all ASTM requirements for fire and smoke barrier. Product to be 3M Fire Barrier Sealant CP 25WB+ or approved equal .

PROJECT NO: 21-4188
DRAWN BY: GRH/
DATE: 2021-12-02



KEYES ARCHITECTS & ASSOCIATES
4717 PRESTON HIGHWAY
LOUISVILLE, KENTUCKY 40213 (502) 656-5113

PATEL LIQUOR STORE

NEW CONSTRUCTION FOR:

NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

PROJECT: PATEL LIQUOR STORE - FILE: SP1.03 Specifications.dwg - DATE: Dec 02, 2021 1:59PM - BY:GARRETT HAMM

C. All exterior masonry to receive stain or sealer and paint as per finishes in section 9.000.

07222 POLYISOCYANURATE ROOF INSULATION

A. Contractor shall field verify all conditions and submit shop drawings for all details and materials before ordering roof insulation.

B. Comply with manufacturer's recommendations for handling, storage and protection during installation.

C. Install roof insulation according to the manufacturer's details and recommendations for system, installation guide, and contract drawings details.

D. For tapered roof insulation indicating location of roof drains, cants and tapered edge strips. Verify roof drain locations with mechanical trades.

E. Do not allow insulation materials to become wet or soiled and do not install insulation on roof deck when water of any type is present. Do not install insulation or roofing materials when substrate is damp or wet or when proper adhesive temperature cannot be maintained.

F. Examine roof deck for suitability to receive insulation. Verify that substrate is dry, clean, and free of foreign material that will damage insulation installation and that the deck is structurally sound to support installers, materials, and equipment without damaging or deforming work.

G. Attach product using mechanical fasteners per manufacturer recommended when possible. Adhesives are to be used per manufacturer's recommendations only when mechanical fasteners are not possible.

H. Rigid roof system to be FlintBoard ISO by CertainTeed, InsulBase Polyiso by Carlisle Syntec Systems, H-Shield by Hunter, or an approved equal. Thickness of roof panels to be as shown on drawings.

I. Tapered rigid roof systems to be FlintBoard ISO-T by CertainTeed, InsulBase Tapered Polyiso by Carlisle Syntec Systems, Tapered H-Shield by Hunter, or an approved equal. Thickness and slope of roof panels to be as shown on drawings.

07250 WEATHER BARRIER - VAPOR BARRIER

A. Building vapor barrier to be commercial grade weather barrier Tyvek CommercialWrap by DuPont or approved equal.

B. All joints are to be lapped minimum 3" and taped as specified by manufacturer.

C. All penetrations are to be taped around entire perimeter.

D. Tape to be 3" wide Tyvek Tape for commercial applications by DuPont or approved equal.

E. Barrier to be anchored in wood with 1" plastic caps fasteners with min 5/8" penetration.

F. Barrier to be anchored in metal with 1-5/8" rust resistant screw with 2" plastic cap.

07260 REINFORCED VAPOR RETARDER

A. Reinforced vapor retarders for suspended insulation applications are to be Griffolyn Type-65 by Reef Industries or Approved Equal.

B. Retarder to be installed on the underside of all roof trusses or floor joists where exposed to the elements above and conditioned below.

C. Retarder only required when insulation is not suspended by Gypsum Board or other approved vapor retarder.

D. All joints are to be lapped minimum 3" and taped as specified by manufacturer.

E. All penetrations are to be taped around entire perimeter.

F. Tape to be 3" wide Griffolyn Fab Tape for commercial applications by DuPont or approved equal.

G. Barrier to be anchored in wood with 1" plastic caps fasteners with min 5/8" penetration.

07540 TPO SINGLE-PLY ROOFING SYSTEM

A. Contractors shall field verify all conditions and submit shop drawings for all details and material before ordering the roof components.

B. System to be Firestone ULTRAPLY TPO Single-Ply Mechanically Fastened Roof System, or approved equal.

C. System and application shall exceed all State Building Codes, local ordinances and these construction documents.

D. Provide written 10 year Manufacturer's and Installer's Warranties/Guarantees from the date of the owner's written final acceptance of the installation.

E. Install additional blocking and nailers as required, Grade #2 or better lumber, pressure treated for fire and rot resistance with a salt-based preservative (Wolmanized). Creosote and asphaltic-based preservatives are not acceptable.

F. System to be installed over Polyisocyanurate Roof Insulation, Dimensionally stable and manufactured for the purpose of roof insulation, compatible with deck structure and substrate.

G. Install with manufacturer recommended adhesives and mechanical fasteners.

H. Install roof membrane according to the manufacturer's details for system, installation guide and contract drawing details.

I. Install flashing as required by the manufacturer's details and contract drawing details.

08000 DOORS AND WINDOWS

A. Doors, frames, windows and glazing to be as shown on drawings. Finish hardware to comply with building code.

B. All door and window glazing to conform to section 08800 Glazing.

C. Egress doors shall be able to be opened from inside without a key or special knowledge.

D. All exterior outward swinging hinged doors are to have Non-Removable Pin (NRP) hinges, unless otherwise specified on the drawings.

E. Hollow metal frames shall be standard profile, 16ga. shop primed. Three (3) anchors each side, one (1) at head. Use wrap around frames at Gypsum board partitions.

F. Hollow metal doors shall be flush, 18 GA., 1 3/4" thick, exterior doors to be insulated with rigid bd. insulation. Head of doors to be solid and flush. Doors to be shop primed.

G. Finish hardware shall be medium grade commercial products by Stanley, Schlage, Von Duprin, Yale or an approved equal. Finish to be selected by owner. U.L. rated and Handicapped accessible hardware as required. See door schedule.

H. Exterior clad windows to be fixed, double hung or double casement units as shown on plans. Windows to be by Anderson, Pella, Marvin, or approved equal. All units to have clear insulated glazing with Low-E coating. Install per manufacturer's instructions and recommendations.

08380 SECTIONAL OVERHEAD DOOR SYSTEM

A. Sectional overhead doors (upward acting) to be by Crawford, Overhead Door, or approved equal. Install door per manufacturer's instructions and recommendations.

B. Door to have an electronic operated with chain hoist backup.

C. Operator to be medium duty, commercial grade, 3/4 h.p motor, unless otherwise noted on the plans. See door schedule for final sizes.

D. Provide (1) wired 3-button (open, close and stop) controller station to be located by owner.

E. Panels to be insulated section, 2" compressed fiberglass blanket, 24 GA galvanized front and back panels. Use standard stiles and rails.

F. Tracks to be 2" galvanized steel with standard hardware.

G. Verify lift clearance before ordering.

H. Provide neoprene or vinyl weather stripping on entire perimeter.

I. Door to have electrically controlled photo eye that stops and reverses if senses an obstruction.

J. All doors and accessories not galvanized shall be factory primed. Interior and exterior door paint shall be selected later.

K. Glazing to as specified on construction documents, where listed and to conform to section 08800 Glazing.

08410 ALUMINUM STOREFRONT SYSTEM

A. Exterior frame are to be thermally broken aluminum frames.

B. Frames to be black, bronze, white or clear anodized (as selected by owner).

C. Aluminum storefront system to be "Kawneer 451T" or approved equal.

D. Glazing contractor shall be responsible to securely anchor units to framing or masonry as needed to transfer loads to the building.

E. All glazing to conform to section 08800 Glazing.

08800 GLAZING

A. Unless specified herein, all glazing is per door and window schedules located on the construction documents.

B. All glazing to comply with safety glazing laws. Installer to verify requirements before ordering and installing all glazing.

C. All insulated glazing units, Low-E finishing and glaze tinting are to carry a minimum of a 10 year warranty from date of acceptance of project.

D. Where glazing is specified to be Low-E and Tinted, glazing is to be tempered as per glazing types below.

E. All glazing to follow Standard Specifications for ASTM C 1036, ASTM C 1048 and ASTM E 774.

F. Glazing to be by PPG, LOF, Guardian Industries, Ford Glass, Hordis Brothers Inc., or equal. Provide all tinted and Low-E glass from the same manufacturer for the entire project.

G. Glazing:

- Exterior glazing to be 1", double layer insulated glazing.
- Interior glazing to be 1/4", single layer.

H. Glazing Types:

- Annealed: Clear float glass conforming to ASTM C 1036, Type I, Class 1, quality q3.
- Tempered: As specified for clear annealed except fully tempered to conform to ASTM C 1048, Kind FT.

I. Glazing Finish Types:

- Obscure: Conforming to ASTM C 1036, Type II, Class I, Form 3, Finish 1, pattern p3 "hammered" texture glass.
- Low-E: PPG "Sungate 500(2)" or equal, clear float glass with transparent reflective coating on inboard (No. 2) surface, conforming to glass type.
- Low-E Tinted: PPG "Sungate 1000(2)" or equal, tinted float glass with transparent reflective coating on inboard (No. 2) surface, conforming to tempered glass type.
- Spandrel: Tempered spandrel glass conforming to DD-G-1403, Grade B, Style II, color as shown or selected by owner.

J. Tint Finish Types - Glare reducing float glass to be: PPG "Solargray", gray color, PPG "Solarbronze", bronze color, or equal.

K. Configuration to be per Window Schedule located in the Construction Documents.

L. Glazing materials and accessories shall be fully compatible with the materials and finishes with which they are in contact. Neoprene and EPDM materials shall not come in contact with silicone sealant materials. Silicone rubber spacers, setting and edge blocks and gaskets shall be either Type I (designed to prevent adhesion) or Type II (designed for adhesion) as per glazing system manufacturer's recommendations for each condition of use.

09000 FINISHES

A. All finishes shall be as called for and specified on drawings.

B. Inspection of finished surfaces for blemishes and defect at the end of the project shall follow the generally accepted standard - PDCA (P1-09) Industry Standards for reviewing finished surfaces. "Viewing and inspection of finished surfaces shall be at a distance of thirty-nine (39) inches from the surface under finished lighting or natural lighting without the use of any optic magnifications or enhanced lighting. Any blemishes or defects detected at this range shall be removed or repaired and patched to match the surrounding."

C. Gypsum Board:

- All gypsum board to be 5/8" thick and installed per U.S. Gypsum association standards and best industry practices.
- Use mold / moisture-resistant gypsum board ("Green" Board or equal) in all toilet rooms and within 4'-0" of all plumbing fixtures such as sinks, drinking fountains, washing machines or any other equipment not listed here in.

3. Where indicated on plans all fire rated assemblies are to use 5/8" Type "X" gypsum board, installed per details and best industry practices.

4. Furnish and install metal or plastic corner bead at all outside corners and "J" mold at all exposed edges.

5. Control Joints: All walls are to follow the latest ASTM C840-08 and GA-216 as it pertains to control joint placement. Unless shown on the plans differently, all walls and ceilings greater than (30) linear feet in any direction are to have a control joint every 30'-0" O.C. All control joints are to receive a metal or plastic control joint strip, installed per manufacturer's recommendations.

D. Vinyl base to be 4" high, 1/8" thick by Tarkett, Roppe, or approved equal. Use coved at vinyl floor tile and coveless at carpet. Stairs shall receive Vinyl treads and backs, treads shall have replaceable slip resistant strip at nosing. Colors as selected by Owner from standard architectural line. Installed per manufacturer's instructions.

E. Floor transitions shall be vinyl as recommended for the specific material transitions. Material shall be by Tarkett, Roppe or approved equal selected from full architectural color lines.

F. Coating Schedule:

1. Surfaces not to be painted are floor coverings, items with factory applied final finish, concealed ducts, pipes and conduit, acoustical ceiling tiles, items with pre-finished surfaces, aluminum windows and door frames, and all items called not to be painted on plans.

2. Surfaces to be painted:

Note: consult with Owner for final colors and finishes.

a) Exposed interior Drywall:

1st coat: Latex Wall Primer.
2nd coat: Latex eggshell or Alkyd based enamel as called for.
3rd coat: Latex eggshell or Alkyd based enamel as called for.

b) Interior Drywall Ceilings:

1st coat: Latex Wall Primer
2nd coat: Alkyd Flat Ceiling Paint

c) Interior Metal:

1st coat: Metal Primer
2nd coat: Semi-Gloss Alkyd Enamel
3rd coat: Semi-Gloss Alkyd Enamel

d) Exterior Metal:

1st coat: Metal Primer
2nd coat: Semi-Gloss Alkyd Enamel
3rd coat: Semi-Gloss Alkyd Enamel

e) Asphalt Striping:

Install 4" wide Bright White stripes at all shown parking spaces.
Install 4" wide Safety Yellow stripes at Handicapped parking and loading areas.
Directional arrows where shown, to be Safety Yellow.
All Striping and marking to be straight, perpendicular and uniform.

09511 ACOUSTICAL CEILING TILES

A. Ceiling grids to be standard 2'x2' by Donn, Armstrong, or approved equal.

B. Ceiling tiles to be 2'x2' vinyl faced square edge, standard fissured square edge, or standard fissured tegular panels by Armstrong, U.S.G., or approved equal.

C. Wet areas such as kitchens, restrooms, and wash rooms are to receive a smooth texture 2'x4' washable, scratch resistant, and anti-microbial acoustical tile. Tile to be Kitchen Zone - 672 by Armstrong or approved equal.

D. Grid and panels are to be white unless otherwise noted on the finish schedule.

10000 SPECIALTIES

A. Storage shelving, where shown on drawings shall be plastic coated wire systems by ClosetMaid, Schulte, K&V, or approved equal. Each location shall have a fully adjustable track system with a minimum of six shelves. Final styles of the supplied shelves to be selected (Some areas may receive only a rod and shelf).

B. Fire extinguisher and cabinets to be by owner as required by code and by the fire inspector.

C. Toilet accessories: The following list of new items shall be furnished and installed:

- (2) Fixed standard mirror(s) 24"x36" - Bobrick B-165 B 2436
- (2) 18" vertical grab bar(s) - Bobrick B-6806x18
- (2) 36" horizontal grab bar(s) - Bobrick B-6806x36
- (2) 42" horizontal grab bar(s) - Bobrick B-6806x42
- (2) Toilet paper holder(s) - Bobrick B-2888
- (2) Paper towel dispenser(s) - Bobrick B-262
- (2) Wall mounted soap dispenser(s) - Bobrick B-5050

11000 EQUIPMENT

A. General contractor to install all equipment so listed on drawings, verify and coordinate requirements with suppliers during bidding.

B. Owner to supply and install all equipment not required or listed herein. See equipment schedules.

12000 FURNISHINGS

A. Owner to furnish and install all furnishings not required or listed herein.

SPECIAL NOTE:

A. Final detailed layout of Plumbing, Mechanical, Fire Suppression and Electrical systems are by separate Engineers or installers, it is the responsibility of the owner and General Contractor to coordinate all work with affected other trades to assure completeness and code compliance.

B. It is the responsibility of the General Contractor and the Mechanical, Electrical, and Plumbing Contractors to ensure that all parts of their work is to be accessible as per Federal ADAAG Guidelines and all State / Local Guidelines. This includes but is not limited to Electrical Controls such as Thermostats or Lighting Controls, Light Switches, Outlet Plugs, Hand Dryers, and Faucet Controls. If there are concerns about how to determine reach ranges, equipment clearance or other accessibility items, contact the architect immediately before work begins for guidance.

END OF SPECIFICATIONS

ABBREVIATIONS

These are abbreviations used on the plans and in these specifications. Not all items may be use and are for reference only.

ACT - Acoustical Ceiling Tile
AFF - Above Finished Floor
CJ - Control Joint
E.I.F.S. - Exterior Insulation and Finish System
FRP - Fiberglass Reinforced Panels
Gyp. Bd. - Gypsum Board
I.B.C. - International Building Code
MAX - Maximum
MIN - Minimum
NRP - Non-Removable Pin
O.C. - On Center
VCT - Vinyl Composite Tile
VET - Vinyl Enhanced Tile
V.I.F. - Verify In Field

PROJECT NO:
21-4188

DRAWN BY:

GRH/

DATE:

2021-12-02



KEYES ARCHITECTS & ASSOCIATES
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NEW CONSTRUCTION FOR:

PATEL LIQUOR STORE

NORTH THIRD STREET
BARDSTOWN, KENTUCKY 40004

SPECIFICATIONS

SP1.02