

110 GRILL
PORTSMOUTH, NH



99 HANOVER STREET | PORSTMOUTH, NH | 03801

CODE REVIEW

INTERIOR FIT-UP

TENANT FIT-UP

GENERAL BUILDING LIMITATIONS FOR THE STATE OF NEW HAMPSHIRE AS PER REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC 2015).

THIS PORTION OF THE ANALYSIS IS FOR FIT UP OF A NEW 6,032 SF TENANT SPACE. THE INTENDED USE GROUP FOR THIS TENANT SPACE WILL BE ASSEMBLY USE (RESTAURANT).

AREA:
6,991 SF

OCCUPANCY:
ASSEMBLY (RESTAURANT) - A2

CHAPTER 10 - MEANS OF EGRESS

TABLE 1004.1.2 - MAX. FLOOR AREA PER OCCUPANT

EGRESS OCCUPANCY - INTERIOR SQUARE FOOT CALCS

Assembly - Unconcentrated	15 NSF / OCC
Assembly - Booth Seating	2 LF / OCC
Kitchen Commercial	200 GSF / OCC

Non-Fixed Table Seating	2,098 / 15 NSF	= 139 Occupants
Booths	120 LFT / 2 LF	= 60 Occupants
Kitchen	1,605 GSF / 200 GSF	= 8 Occupants
Back Bar	254 GSF / 200 GSF	= 2 Occupants
TOTAL		= 209 Occupants

PLUMBING - FACILITIES REQUIRED (PER GENDER)

TOILETS	OCCUPANCY	REQUIRED	PROVIDED	OCC. ACCOMMODATED
Men (1/75)	120 Men	2	3	150
Women (1/75)	120 Women	2	4	300
LAVS				
1/200		1 (Per Gender)	2 (Per Gender)	400

1005 MEANS OF EGRESS SIZING

1005.1-GENERAL

ALL PORTIONS OF THE MEANS OF EGRESS SHALL BE SIZED IN ACCORDANCE WITH THIS SECTION.

EXCEPTION: AISLES AND AISLE ACCESSWAYS IN ROOMS OR SPACES USED FOR ASSEMBLY PURPOSES COMPLYING WITH SECTION 1029.

1005.3.2-OTHER EGRESS COMPONENTS

THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH A COMPONENT BY A MEANS OF EGRESS FACTOR OF 0.2 INCHES PER OCCUPANT.

1007.1.1 - EXIT AND EXIT ACCESS DOORWAY CONFIGURATION

1/3RD DIAGONAL (W/ SPRINKLER)

1010.1.1 - SIZE OF DOORS

32" MINIMUM CLEAR REQUIRED / DOOR

1017 EXIT ACCESS TRAVEL DISTANCE

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE - 250'-0" (W/ SPRINKLER SYSTEM)

1018.0 - AISLES

1018.2 - AISLES IN ASSEMBLY SPACES:

AISLES AND AISLE ACCESSWAYS SERVING A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES SHALL COMPLY WITH SECTION 1028.

1029 ASSEMBLY

1029.1-GENERAL

A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT CONTAIN SEATS, TABLES, DISPLAYS, EQUIPMENT OR OTHER MATERIAL SHALL COMPLY WITH THIS SECTION.

1029.6.1.4-WITHOUT SMOKE PROTECTION

LEVEL AISLES SHALL HAVE NOT LESS THAN 0.2 INCHES OF CLEAR AISLE PER OCCUPANT SERVED

1029.8-COMMON PATH OF EGRESS TRAVEL

THE COMMON PATH OF TRAVEL SHALL NOT EXCEED 30 FEET FROM ANY SEAT TO A POINT WHERE AN OCCUPANT HAS A CHOICE OF TWO PATHS OF EGRESS TRAVEL TO TWO EXITS

EXCEPTION 1: FOR AREAS SERVING LESS THAN 50 OCCUPANTS, THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED 75 FEET.

(NFPA 101 12.2.5.1.2 - A COMMON PATH OF TRAVEL SHALL BE PERMITTED FOR THE FIRST 20 FT FROM ANY POINT WHERE THE COMMON PATH SERVES ANY NUMBER OF OCCUPANTS, AND FOR THE FIRST 75 FT FROM ANY POINT WHERE THE COMMON PATH SERVES NOT MORE THAN 50 OCCUPANTS)

1029.9.1-MINIMUM AISLE WIDTH

THE MINIMUM CLEAR WIDTH FOR AISLES SHALL COMPLY WITH ONE OF THE FOLLOWING

4. 42 INCHES FOR LEVEL AISLES HAVING SEATING ON BOTH SIDES
- EXCEPTION 1: 36 INCHES WHERE THE AISLE SERVES LESS THAN 50 SEATS.
- EXCEPTION 2: 30 INCHES WHERE THE AISLE DOES NOT SERVE MORE THAN 14 SEATS
5. 36 INCHES FOR LEVEL AISLES HAVING SEATING ON ONLY ONE SIDE

1029.9.5-DEAD END AISLES

EACH END OF AN AISLE SHALL BE CONTINUOUS TO A CROSS AISLE

EXCEPTION 1: DEAD END AISLE SHALL BE NOT GREATER THAN 20 FEET IN LENGTH.

1029.12-AISLE ACCESSWAYS

AISLE ACCESSWAYS FOR SEATING AT TABLES SHALL COMPLY WITH 1029.12.1

1029.12.1 - SEATING AT TABLES

WHERE SEATING IS LOCATED AT A TABLE OR COUNTER ADJACENT TO AN AISLE OR AISLE ACCESSWAY, THE MEASUREMENT OF REQUIRED CLEAR WIDTH OF THE AISLE OR AISLE ACCESSWAY SHALL BE MADE TO A LINE 19 INCHES AWAY FROM AND PARALLEL TO THE EDGE OF THE TABLE OR COUNTER.

1029.12.1.1 - AISLE ACCESSWAY CAPACITY & WIDTH FOR SEATING AT TABLES

AISLE ACCESSWAY SHALL NOT HAVE LESS THAN 12 INCHES OF WIDTH PLUS 1/2 INCH OF WIDTH FOR EACH ADDITIONAL FOOT, OR FRACTION THEREOF, BEYOND 12 FEET OF AISLE ACCESSWAY LENGTH MEASURED FROM THE CENTER OF THE SEAT FARTHEST FROM AN AISLE.

1101-ACCESSIBILITY

1101.2-DESIGN

BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH MA AAB 521 CMR AND ICC A117.1

(2010 ADA STANDARDS FOR ACCESSIBLE DESIGN SHALL ALSO BE MET.)

DESIGN TEAM

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LOCUS PLAN



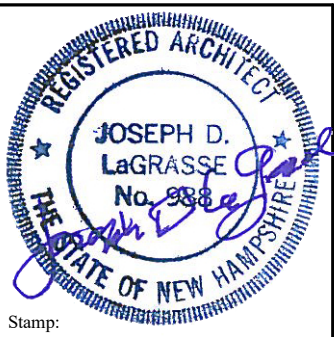
SHEET LIST

SHEET NUMBER	SHEET NAME	DATE ISSUED	DATE REVISED	NOTES
01 GENERAL				
G000	COVER SHEET	06/17/2020		
G001	SYMBOLS LEGEND, ABBREVIATIONS & GENERAL NOTES	06/17/2020		
04 ARCHITECTURAL DEMOLITION				
D100	DEMOLITION PLAN	04/27/2020		
D200	DEMO ELEVATIONS	04/27/2020		
05 ARCHITECTURAL				
A100	EGRESS PLAN	06/17/2020		
A101	CONSTRUCTION PLAN	06/17/2020	06/25/2020	REV-1
A110	ENLARGED PLANS I	06/17/2020		
A111	ENLARGED PLANS II	06/17/2020	06/25/2020	REV-1
A112	ENLARGED PLANS III	06/17/2020	06/25/2020	REV-1
A113	ENLARGED PLANS IV	06/17/2020	06/25/2020	REV-1
A120	REFLECTED CEILING PLANS	06/17/2020		
A121	INTERIOR FINISH PLAN	-	06/25/2020	REV-1
A122	INTERIOR FURNITURE PLAN	-	06/25/2020	REV-1
A300	EXTERIOR ELEVATIONS	07/08/20	07/13/2020	REV-2
A320	EXTERIOR WALL SECTIONS	07/09/20	07/13/2020	REV-2
A420	INTERIOR ELEVATIONS I	06/17/2020	06/25/2020	REV-1
A421	INTERIOR ELEVATIONS II	06/17/2020	07/13/2020	REV-2
A500	DETAILS I	06/17/2020		
A501	DETAILS II	06/17/2020	06/25/2020	REV-1
A502	DETAILS III	06/17/2020		
A600	SCHEDULES & DIAGRAMS I	06/17/2020		
A601	SCHEDULES & DIAGRAMS II	06/17/2020		
06 FOODSERVICE				
FS-1	FOODSERVICE EQUIPMENT PLAN	05/28/2020		
FS-2	FOODSERVICE EQUIPMENT SCHEDULE	05/28/2020		



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COVER SHEET

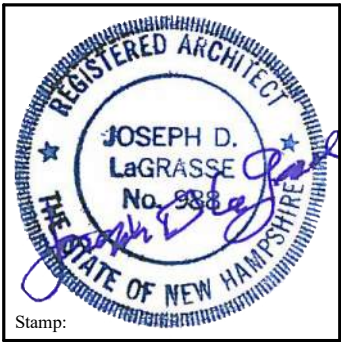
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Revisions	
Date	06/17/2020
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Job No.	2196
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G000



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SYMBOLS LEGEND,
 ABBREVIATIONS &
 GENERAL NOTES

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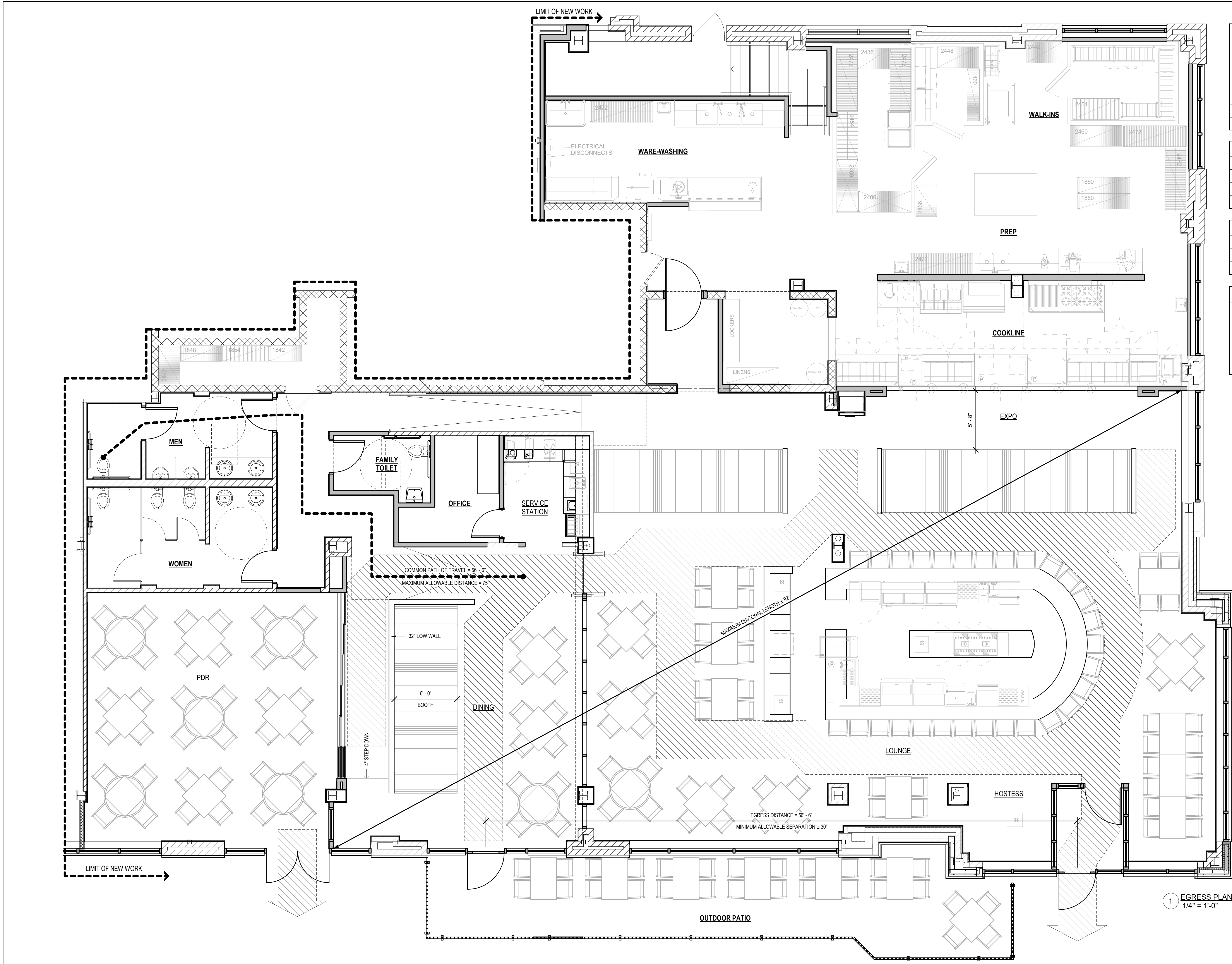
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	VANITY LIGHT		EXHAUST FAN / LIGHT		2x4' FLORESCENT LIGHT FIXTURE		EMERGENCY LIGHT w/ ILLUMINATED SIGN		SPECIAL RECEPTACLE		CEILING MOUNTED ILLUMINATED EXIT SIGN w/ DIRECTION		LIGHT SWITCH		COLUMN LINE		EXISTING WINDOW TO REMAIN		EXISTING WALLS
	4' INDIRECT LINEAR PENDANT		FIRE EXTINGUISHER		2x2' FLORESCENT LIGHT FIXTURE		FIRE ALARM PULL STATION		TELEPHONE / DATA		WALL MOUNTED ILLUMINATED EXIT SIGN		3-WAY SWITCH		SOFFIT / CEILING CHANGE OR CABINETS ABOVE		WINDOW TO BE DEMOLISHED		WALLS TO BE DEMOLISHED
	WIRING		CEILING MOUNT SURFACE LIGHT		8' INDIRECT LINEAR PENDANT		FIRE ALARM PULL STATION w/ HORN		TELEPHONE / DATA EXISTING		DUPLEX RECEPTACLE		LIGHT SWITCH w/ DIMMER		ENLARGED PLAN		WINDOW & WINDOW NUMBER		NEW WALLS
	ACOUSTICAL CEILING TILE GRID		SMOKE DETECTOR		6" RECESSED LIGHT FIXTURE		FIRE ALARM PULL STATION w/ HORN & STROBE		TELEPHONE / DATA TO BE REMOVED		EXISTING RECEPTACLE		DUPLEX RECEPTACLE ON EMERGENCY BRANCH		REVISION CLOUD & NUMBER		BUILDING SECTION NUMBER AND SHEET		EXISTING DOOR TO REMAIN
	CEILING MARK MATERIAL / HEIGHT		HEAT DETECTOR		6" RECESSED WALL WASH LIGHT FIXTURE		FIRE ALARM HORN & STROBE		THERMOSTAT		RECEPTACLE TO BE REMOVED		208v RECEPTACLE		FLOOR DRAIN		BUILDING ELEVATION MARK ELEVATION# / SHEET#		DOORS TO BE DEMOLISHED
	SUPPLY AIR		CARBON MONOXIDE DETECTOR		WALL MOUNTED ILLUMINATED EXIT SIGN w/ DIRECTION		FIRE ALARM STROBE		ELECTRIC PANEL		QUAD RECEPTACLE		GROUND FAULT RECEPTACLE		RAIN WATER LEADER		DETAIL / SECTION MARK SECTION # / SHEET #		DOOR & DOOR NUMBER
	RETURN AIR		SPRINKLER HEAD		EMERGENCY LIGHT		FIRE ALARM REMOTE INDICATOR		CEILING MOUNTED ILLUMINATED EXIT SIGN		DUPLEX RECEPTACLE w/ ONE CONTROLLED BY SWITCH		WATERPROOF RECEPTACLE		SPOT ELEVATION		INTERIOR ELEVATIONS SHEET# / ELEV #		

@	And	BSMT	BASEMENT	D	DEPTH OR DEEP	FA	FIRE ALARM	HDCP	HANDICAP	M	MIDDLE	PART	PARTITION	S	SINK/SUPPLY FAN	T	TEMPERED	WC	WALL COVERING
Al	At	BTWN	BETWEEN	DEMO	DEMOLITION	FBR	FACE BRICK	HDR	HEADER	MATL	MATERIAL	PC	PRECAST CONCRETE	SCHED	SCHEDULE	T	TOP	WD	WOOD
#	Pound/ Number	BUR	BUILT-UP ROOFING	DEPT	DEPARTMENT	FD	FLOOR DRAIN	HDW	HDWARE	MAX	MAXIMUM	PL	PLATE	SD	SMOKE DAMPER	T&B	TOP AND BOTTOM	WDW	WINDOW
°	Degree			DF	DRINKING FOUNTAIN	FDN	FOUNDATION	HGT	HEIGHT	MC	MEDICINE CABINET	PL	PROPERTY LINE	SECT	SECTION	TDR	TRENCH DRAIN	WH	WALL HYDRANT
<	ANGLE	C	CHANNEL	DIA	DIAMETER	FIN	FIRE EXTINGUISHER	HM	HOLLOW METAL	MECH	MECHANICAL	PLAM	PLASTIC LAMINATE	SH	SQUARE FOOT	TEL	TELEPHONE	WHCH	WHEELCHAIR
ABV	ABOVE	CAB	CABIN	DIAG	DIAGONAL	FINISH	FINISH	HORI	HORIZONTAL	MEMB	MEMBRANE	PLMBG	PLUMBING	SHMP	TEMPERATURE	TEMP	TEMPERATURE	WHTR	WATER HEATER
ACT	ACOUSTICAL CEILING TILE	CANTL	CANTILEVER	DIFF	DIFFUSER	FIXT	FIXTURE	MEZZ	MEZZANINE	PLW	PLYWOOD	SHIT	SHEET	TH	TONGUE & GROOVE	TH	TONGUE	WP	WATERPROOF
ADDL	ADDITIONAL	CAP	CAPACITY	DIM	DIMENSION	FL	FLOOR	HR	HANDRAIL	MFR	MANUFACTURER	PNL	PANEL	SHGT	SHEATHING	THRES	THRESHOLD	WS	WEATHERSTRIP
ADJ	ADJACENT	CAT	CATEGORY	DISP	DISPENSER	FLASH	FLASHING	HT	HEIGHT	MH	MANHOLE	PAIR	SIMILAR	SIM	SIMILAR	TO	TOP OF	WSCOT	WAINSCOT
ADJ	ADJACENT	CCTV	CLOSED CIRCUIT TELEVISION	DIST	DISTRIBUTION	FLEX	FLEXIBLE	HTR	HEATER	MIN	MINIMUM	PRELIM	PRELIMINARY	SM	SURFACE MOUNTED	TO	TOP OF WALL	WT	WEIGHT
AFF	ABOVE FINISH FLOOR	COR	CORNER GUARD	DIV	DIVISION	FLUOR	FLUORESCENT	HVAC	HEATER VENTILATING, & AIR CONDITIONING	MIR	MIRROR	PRIM	PRIMARY	SLAB	SLAB ON GRADE	TOW	TOILET PAPER HOLDER	WW	WOOD WINDOW
AHU	AIR HANDLING UNIT Mech.	CL	CENTER LINE	DN	DOWN	FACE	FACE OF	FOS	FACE OF STUD	MISC	MISCELLANEOUS	PROJ	PROJECTION	PT	PIPE	TH	TREAD	WWF	WELDED WIRE FABRIC
ALT	ALTERNATE	CL	CENTER LINE	DR	DOOR	FOS	FACE OF STUD	HW	HOT WATER	MO	MASONRY OPENING	PAINT	POLYVINYL CHLORIDE	MONO	MONOLITHIC	PVC	POLYVINYL CHLORIDE	TRANSF	TRANSFORMER
ALUM	ALUMINUM	CLG	CEILING	DWG	DRAWING	FP	FIRE PROOFING	HWD	HARDWOOD	MTL	METAL	QUARRY TILE	QUARRY TILE	MTL	METAL	QUARRY TILE	QUARRY TILE	TRANSF	TRANSFORMER
ANUN	ANUNCIATOR	CLR	CLEAR	EA	EACH	FT	FOOT/FEET	IC	INTERCOM	INSUL	INSULATION	INT	INTERIOR	IN	INCH	INCH	INCH	INCH	INCH
APC	ARCHITECTURAL PRECAST	COL	COLUMN	EJ	EXPANSION JOINT	EL	ELEVATION	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR
APROX	APPROXIMATE	COMB	COMBINATION-ED	EJ	EXPANSION JOINT	EL	ELEVATION	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR
ARCH	ARCHITECTURAL/ architect	CONF	CONFERENCE	ELEC	ELECTRICAL	GA	GAUGE	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR	INT	INTERIOR
AUTO	AUTOMATIC	CONV	CONNECTION-ED-ION	GB	GALVANIZED	GB	GRAB BAR	JAN	JANITOR	NO	NOT APPLICABLE	NO	NOT APPLICABLE	NO	NOT APPLICABLE	NO	NOT APPLICABLE	NO	NOT APPLICABLE
BD	BOARD	CONSTR	CONSTRUCTION	ENCL	ENCLOSURE	ENTR	ENTRANCE	GEN	GENERAL CONTRACTOR	GEN	GENERAL	GLASS	GLASS	GRD	GRADE	GRD	GRADE	GRD	GRADE
BFE	BOTTOM FOOTING ELEVATION	COORD	COORDINATE	EQU	EQUAL	EQUIP	EQUIPMENT	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER
BIT	BITUMINOUS	COORD	COORDINATE	EQU	EQUAL	EQUIP	EQUIPMENT	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER
BLDG	BUILDING	CORR	CORROSION	EQ	EQUAL	EQUIP	EQUIPMENT	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER	EW	ELECTRIC WATER COOLER
BLKG	BLOCKING	CPT	CARPET	EXF	EXHAUST FAN	EXC	EXCAVATE-ED-IION	HT	HEIGHT/HIGH	HD	HOSE BIB	LOC	LOCATION OR LOCATE	LOW	LOW POINT	LOW	LOW POINT	LOW	LOW POINT
BLW	BELOW	CR	CHAIR RAIL	EXF	EXHAUST FAN	EXC	EXCAVATE-ED-IION	HT	HEIGHT/HIGH	HD	HOSE BIB	LOC	LOCATION OR LOCATE	LOW	LOW POINT	LOW	LOW POINT	LOW	LOW POINT
BM	BEAM	CT	CERAMIC TILE	EXF	EXHAUST FAN	EXC	EXCAVATE-ED-IION	HT	HEIGHT/HIGH	HD	HOSE BIB	LOC	LOCATION OR LOCATE	LOW	LOW POINT	LOW	LOW POINT	LOW	LOW POINT
BO	BOTTOM OF	CTR	CENTER	EXH	EXHAUST HOOD	EXH	EXHAUST HOOD	HD	HOSE BIB	LOC	LOCATION OR LOCATE	LOW	LOW POINT	LOW	LOW POINT	LOW	LOW POINT	LOW	LOW POINT
BO	BOTTOM OF FUTURE	CAB	CABINET UNIT HEATER	EXP	EXPANSION	EXT	EXTERIOR	EXT	EXTERIOR	EXT	EXTERIOR	EXT	EXTERIOR	EXT					



SEATING CAPACITY	
BAR & LOUNGE:	126
- BAR TOP (28)	
- HIGH TOP (98)	
RESTAURANT:	80
- TABLE SEATS (24)	
- FUNCTION ROOM (36)	
TOTAL INTERIOR SEATING:	186
OUTDOOR PATIO SEATS:	28
TOTAL SEATING CAPACITY:	214

OCCUPANCY	
TOTAL SEATING CAPACITY:	214
WAIT STAFF (NOT SEATED):	15
KITCHEN/BAR STAFF:	10
TOTAL OCCUPANCY:	239

ACCESSIBLE SEATING	
5%, NOT LESS THAN 1	
INTERIOR:	10 SEATS
PATIO:	2 SEATS

EGRESS LEGEND	
	3'-8" PRIMARY EGRESS PATH
	SECONDARY AISLE ACCESSWAY

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

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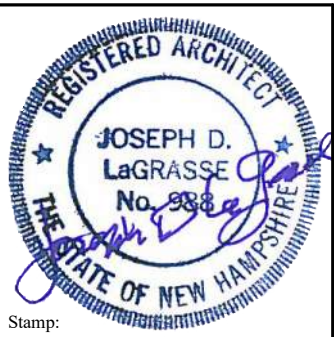
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EGRESS PLAN

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CONSTRUCTION PLAN

Prepared for:

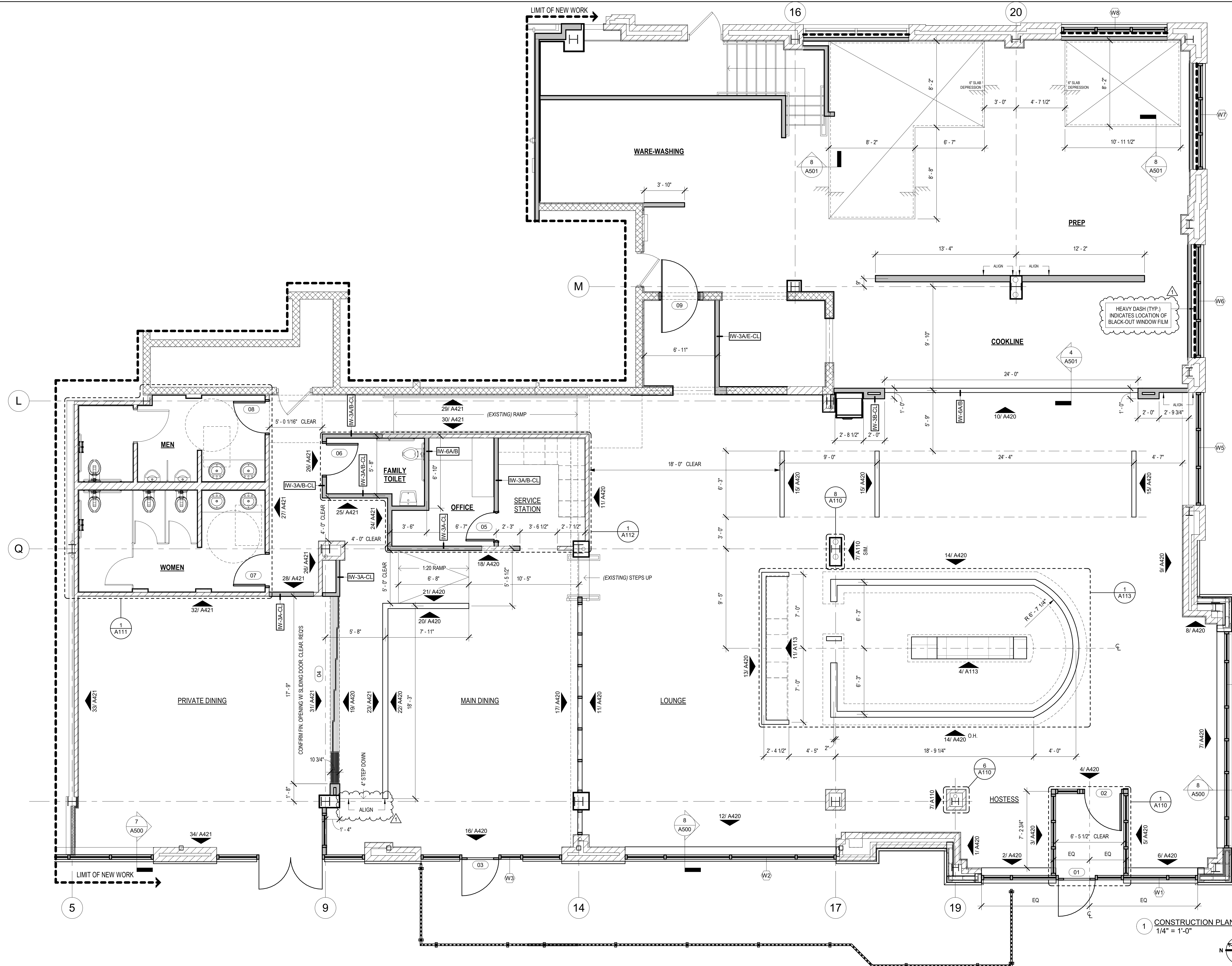
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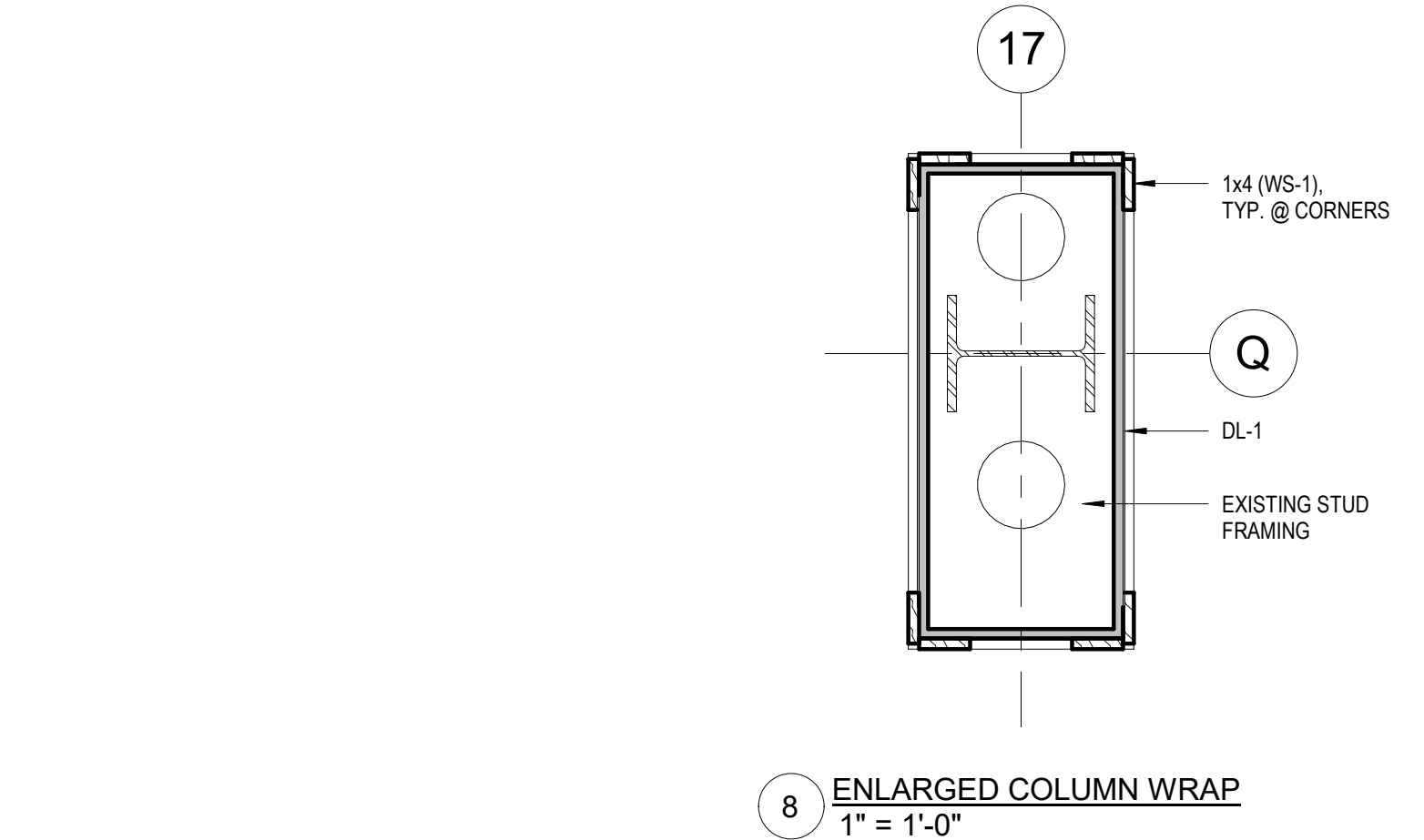
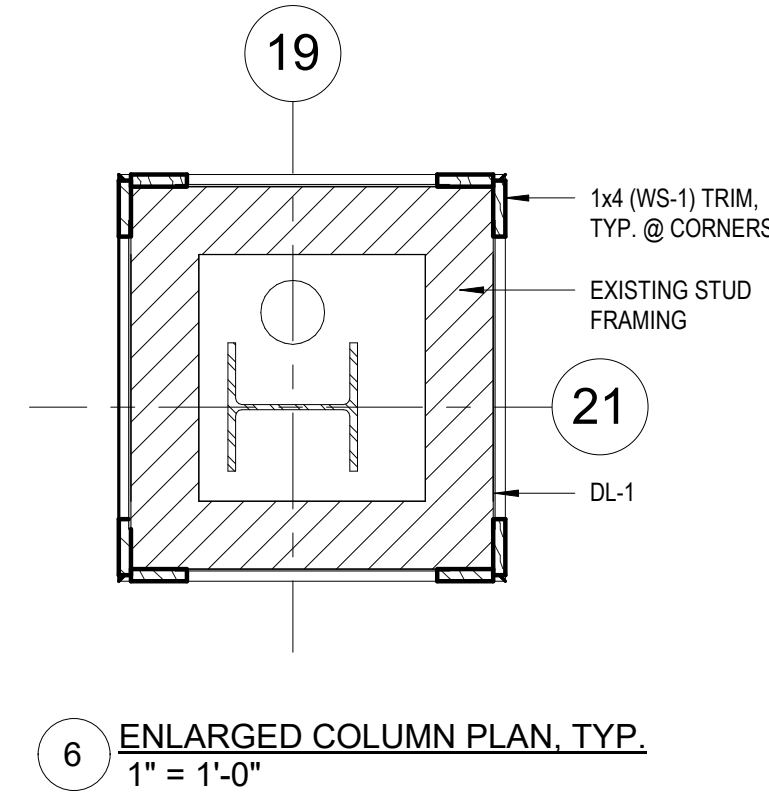
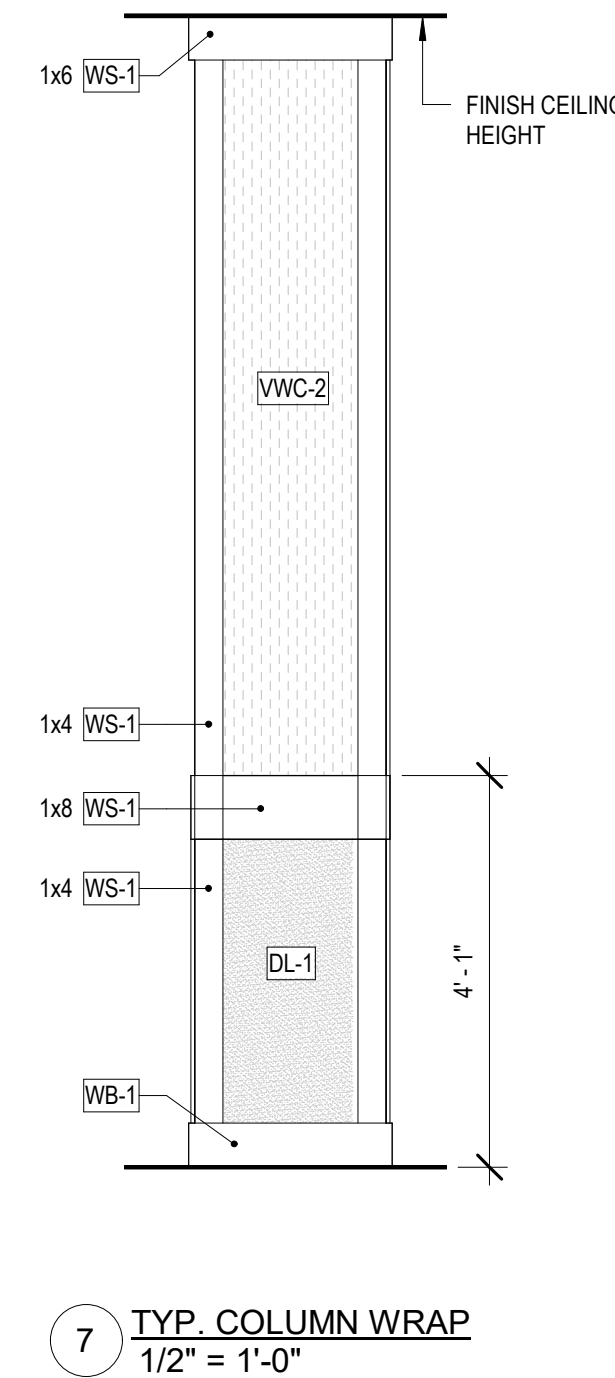
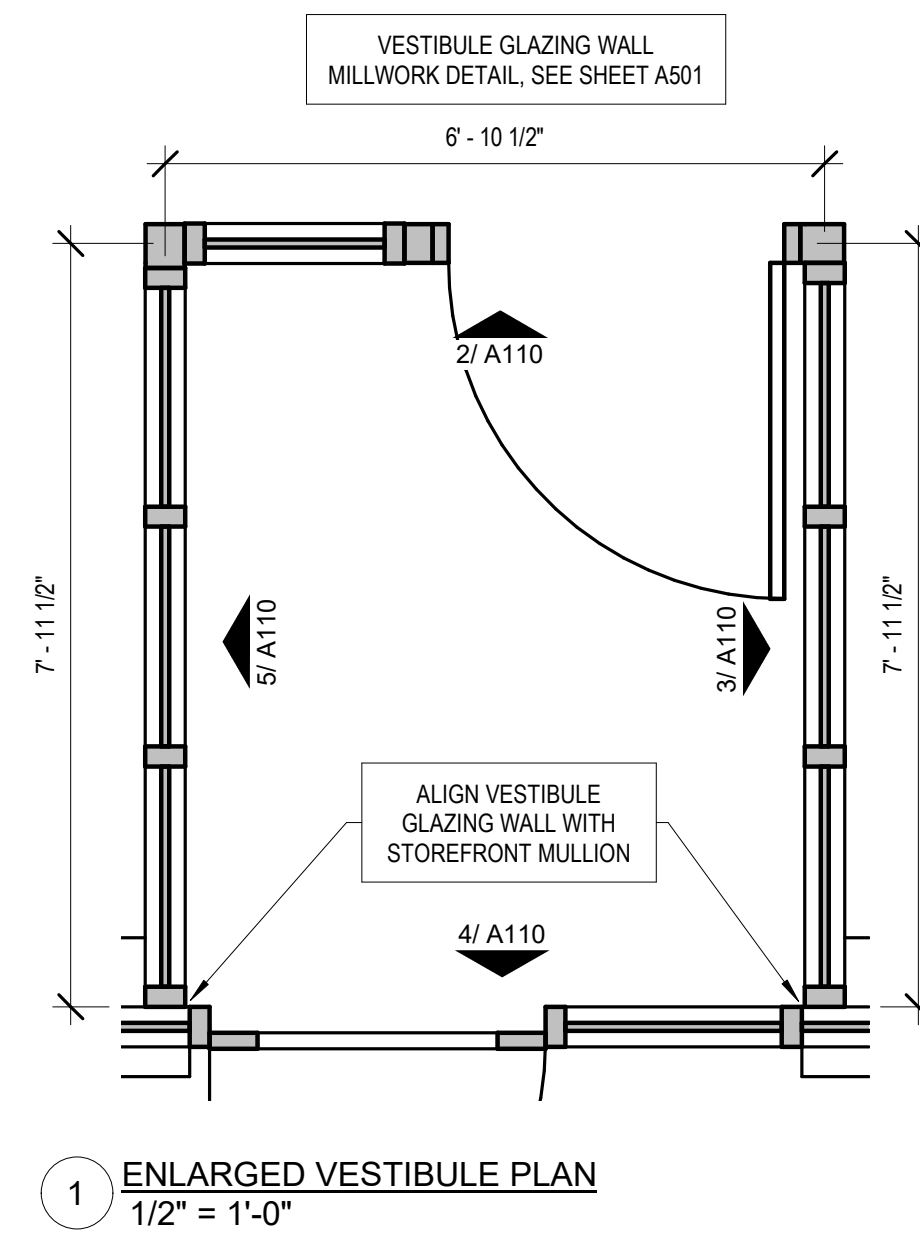
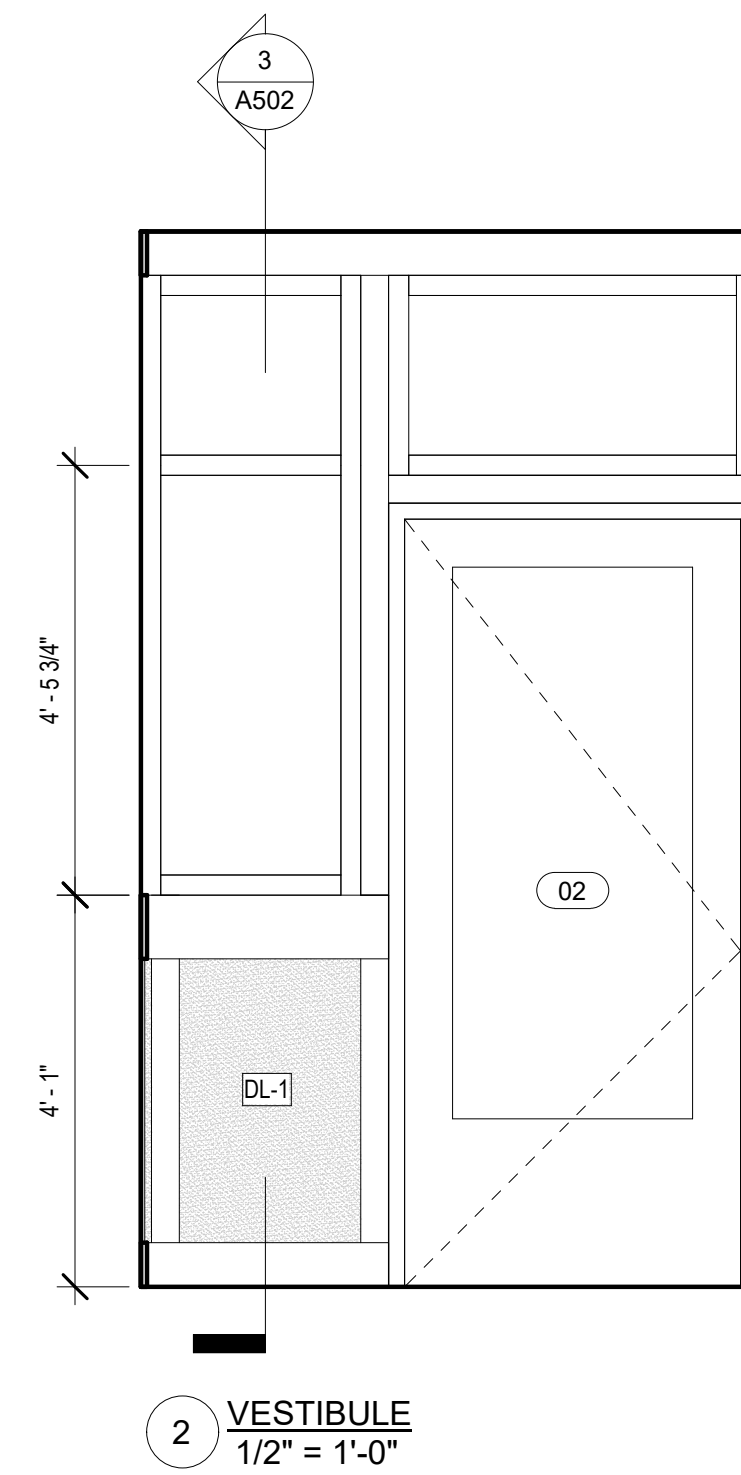
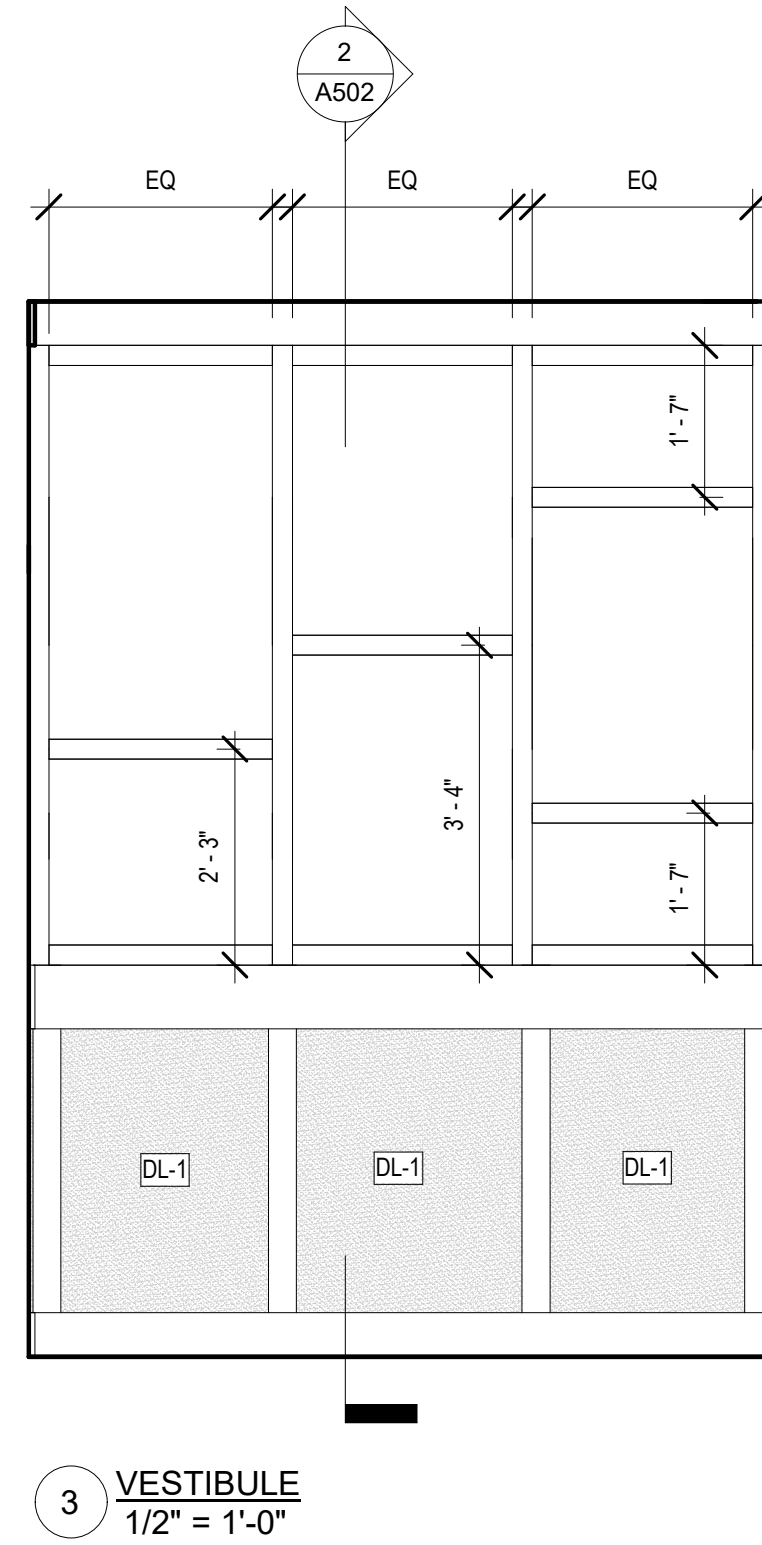
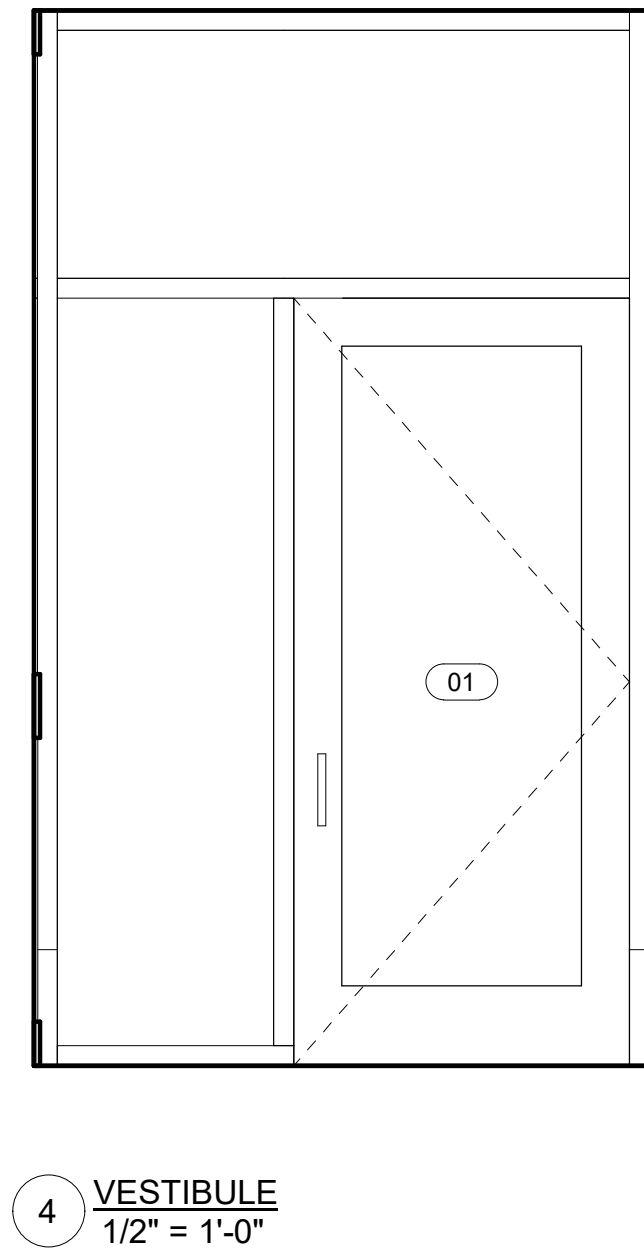
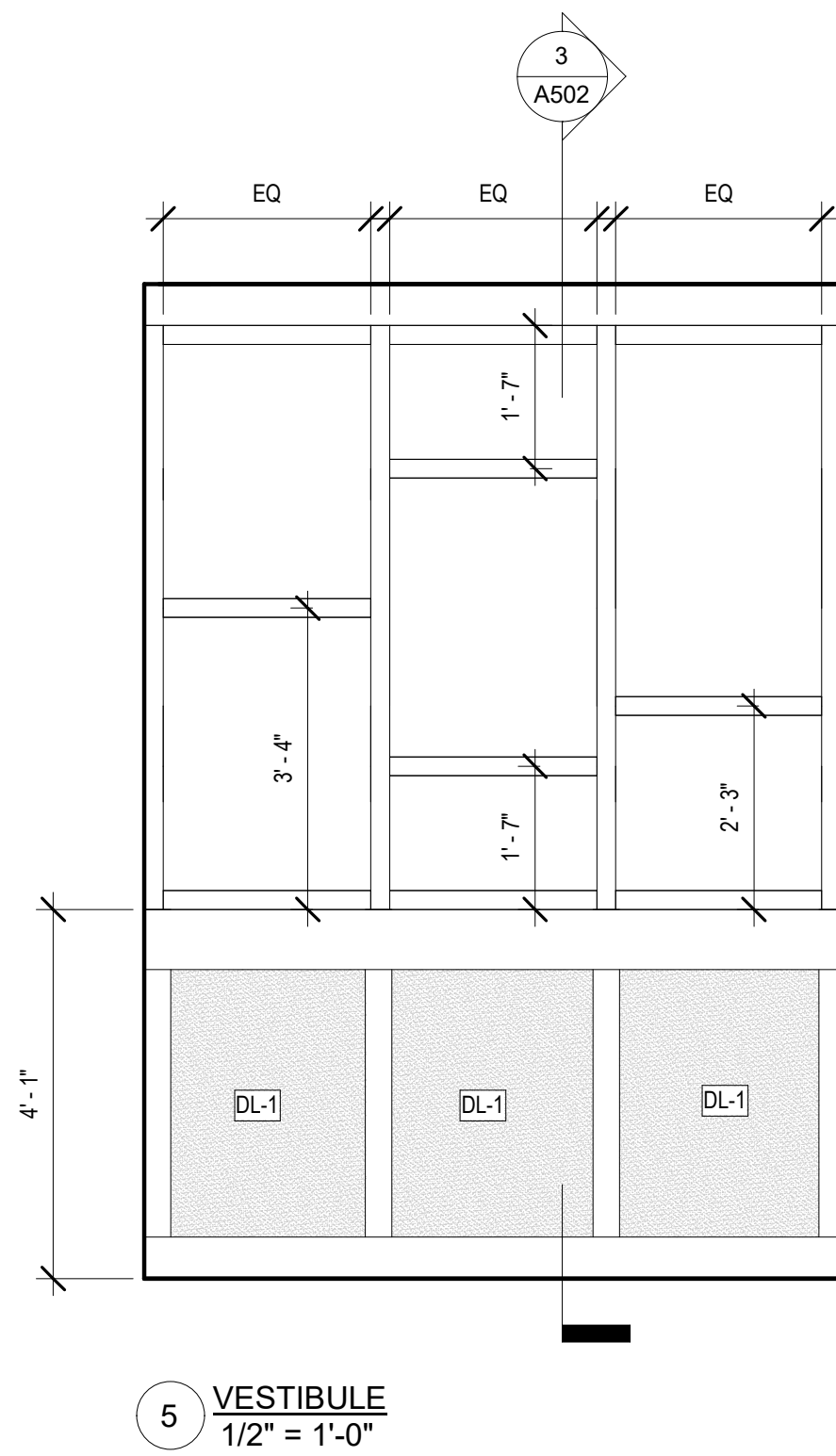
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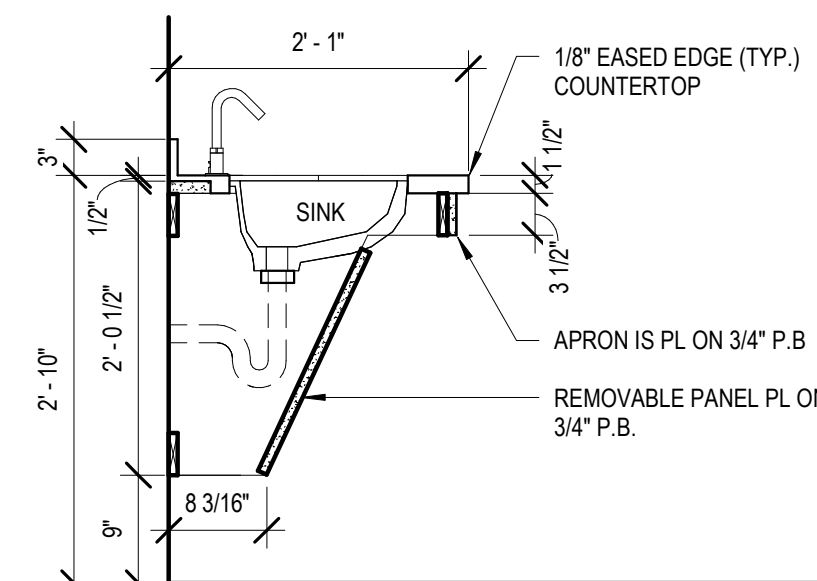
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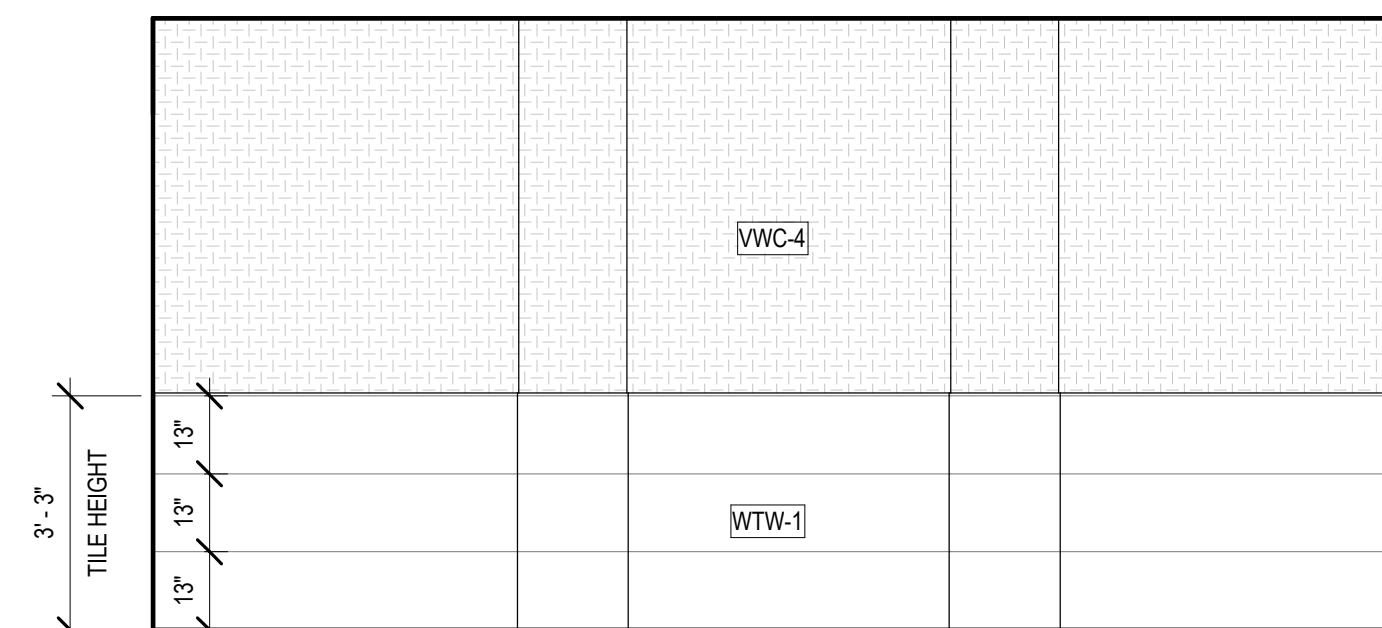


ITEM	DESCRIPTION	SPECIFICATION
WASH BASINS	SOLID SURFACE, COUNTER, DOUBLE LAV & 3" BACKSPLASH W/ INTEGRAL BASINS	SEE A600 FINISH MATERIALS
TOILET TISSUE DISPENSER	SURFACE MOUNT, DOUBLE-ROLL W/ HOODS	BOBRICK (B-69997)
PAPER TOWEL DISPENSER	RECESSED	BOBRICK (B-359)
GRAB BARS	(2) 42" ACCESSIBLE STALL	
SANITARY DISPOSAL	PARTITION MOUNTED (LOCATE TOWARD BACK WALL)	BOBRICK (B-4358)
MIRROR	BY OWNER	
BABY CHANGING STATION	HORIZONTAL WALL MOUNTED	KOALA KARE PRODUCTS KB200 SELF-CLOSING

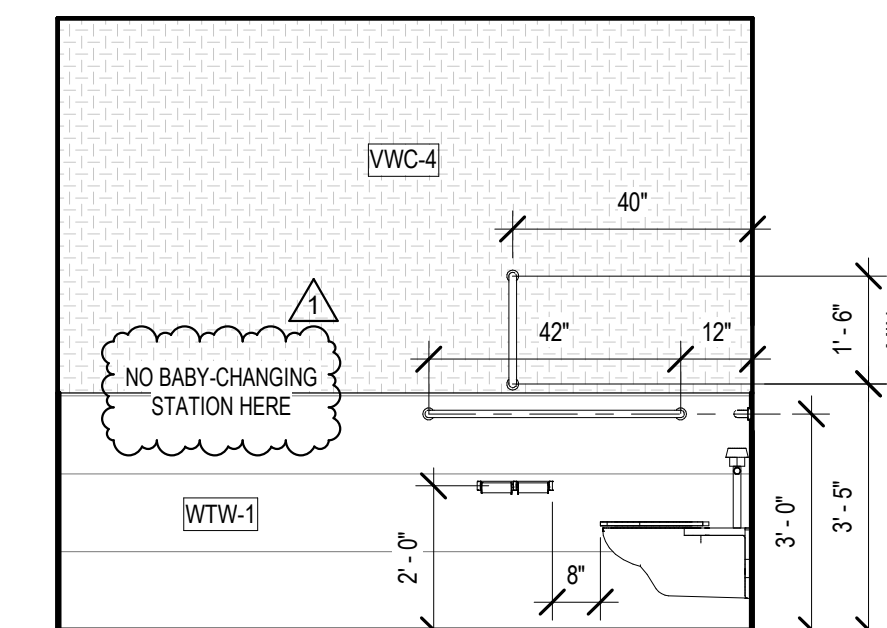
NOTE: CONTRACTOR TO PROVIDE BLOCKING AS REQ'D FOR ALL ACCESSORIES



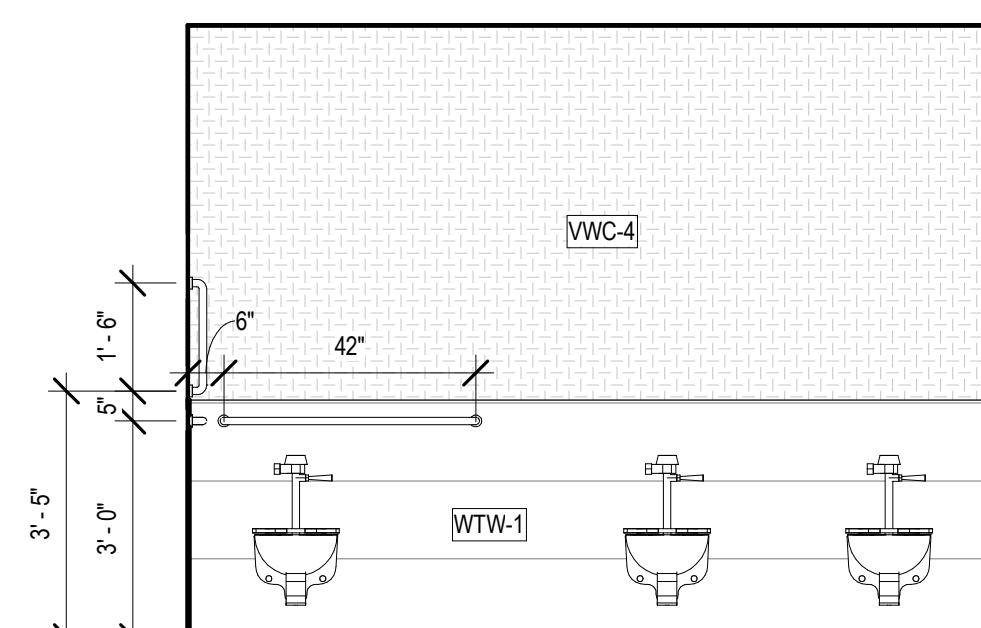
20 ADA SINK DETAIL
3/4" = 1'-0"



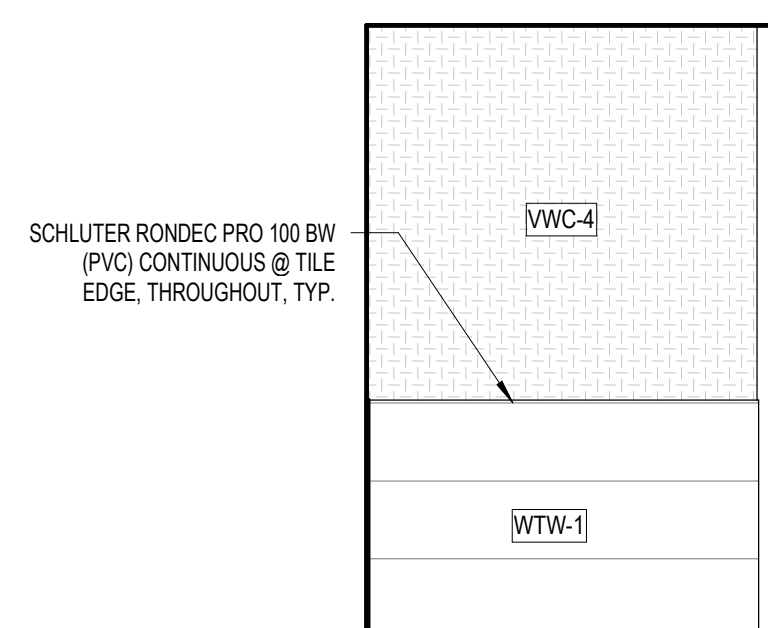
19 WOMEN'S ROOM
3/8" = 1'-0"



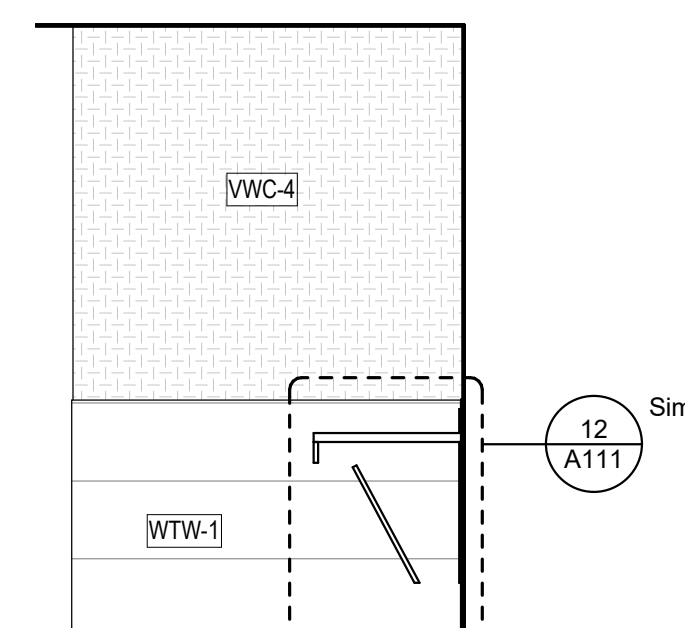
18 WOMEN'S ROOM
3/8" = 1'-0"



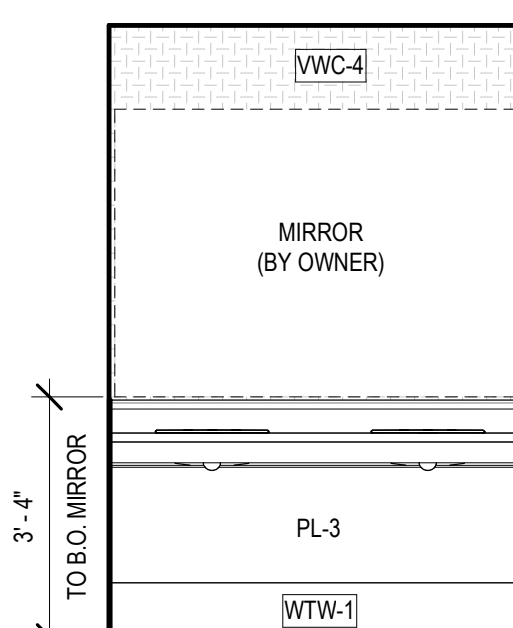
17 WOMEN'S ROOM
3/8" = 1'-0"



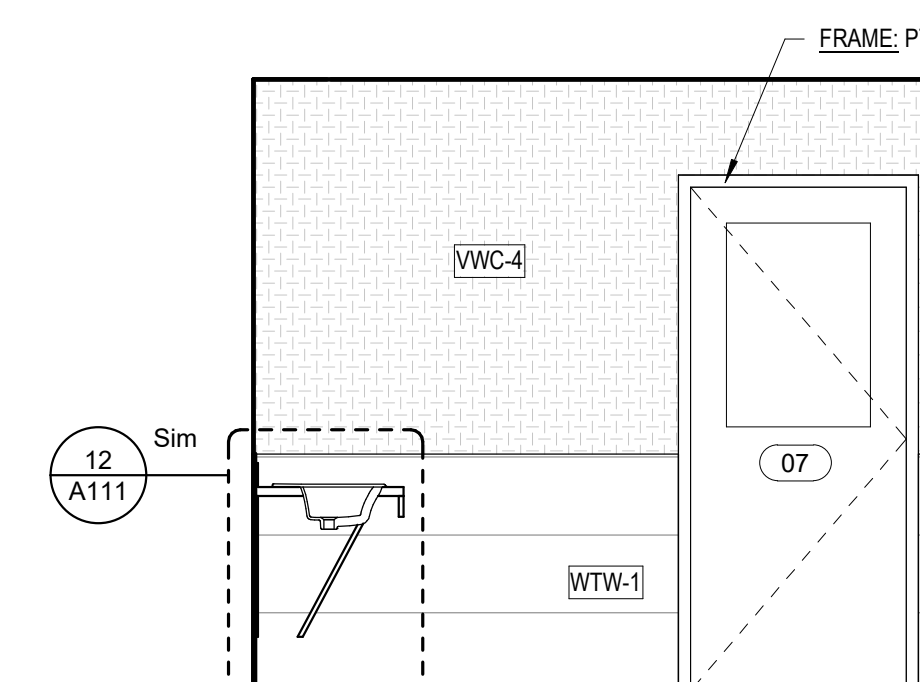
16 WOMEN'S ROOM
3/8" = 1'-0"



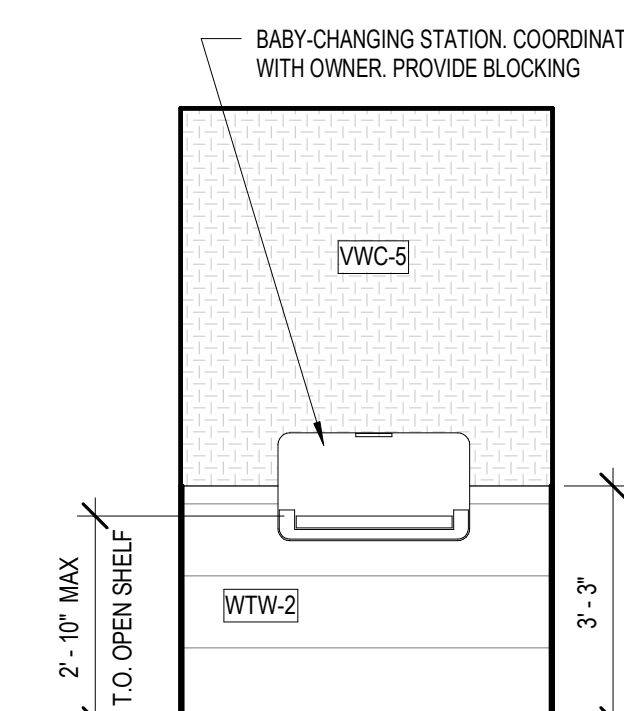
15 WOMEN'S ROOM
3/8" = 1'-0"



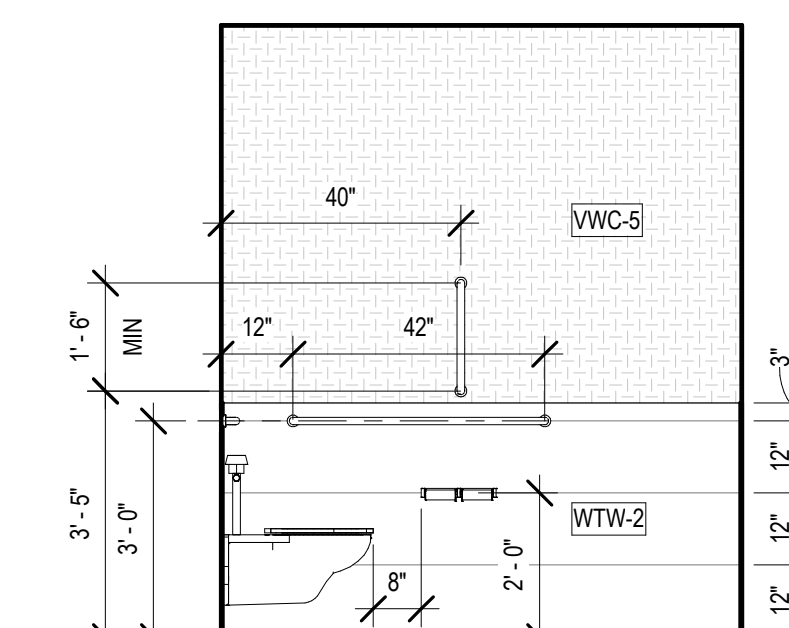
14 WOMEN'S ROOM
3/8" = 1'-0"



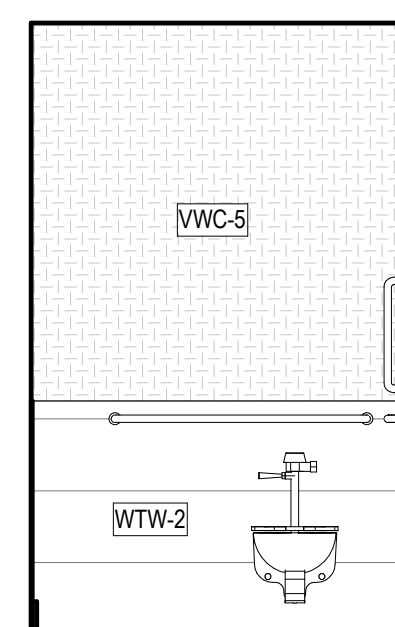
13 WOMEN'S ROOM
3/8" = 1'-0"



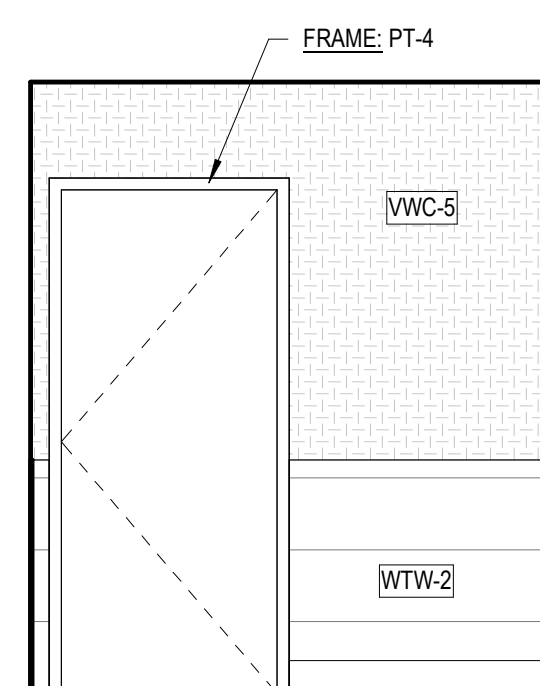
12 MEN'S ROOM
3/8" = 1'-0"



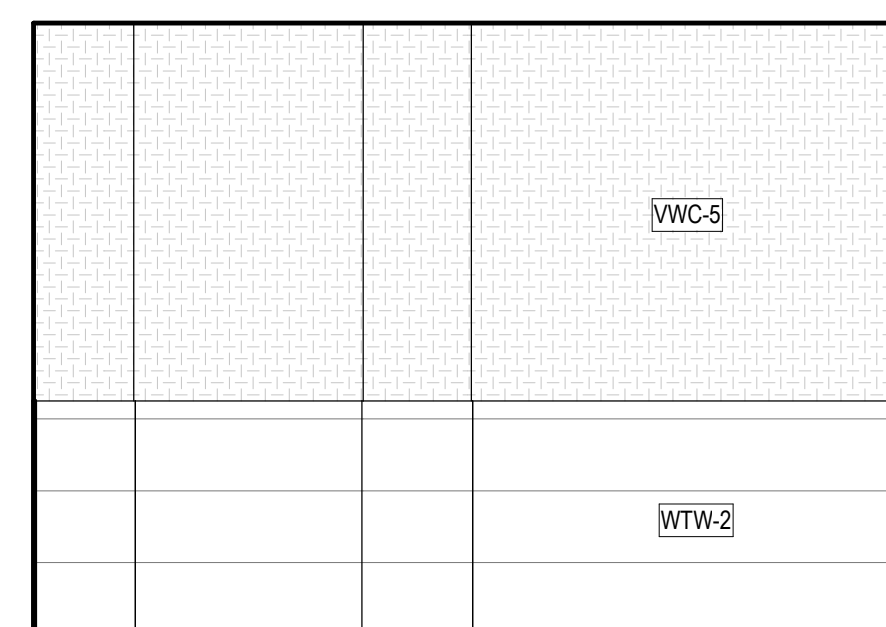
11 MEN'S ROOM
3/8" = 1'-0"



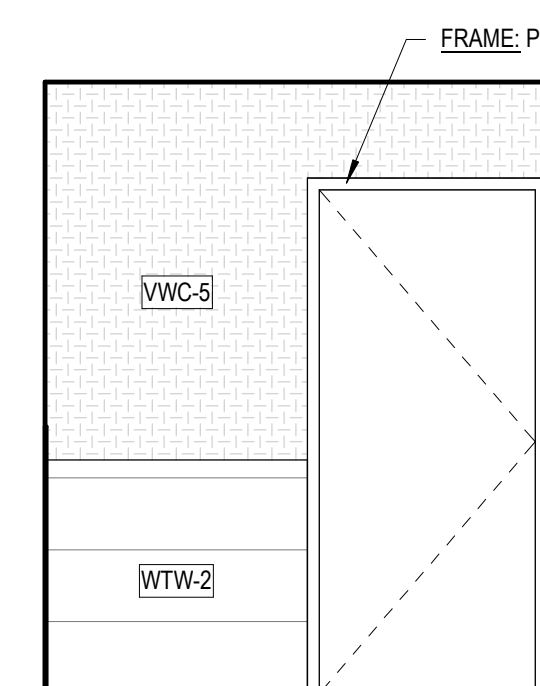
10 MEN'S ROOM
3/8" = 1'-0"



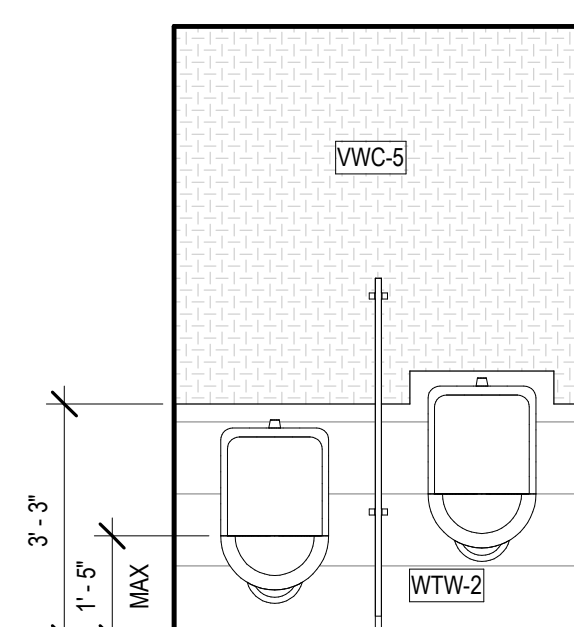
9 MEN'S ROOM
3/8" = 1'-0"



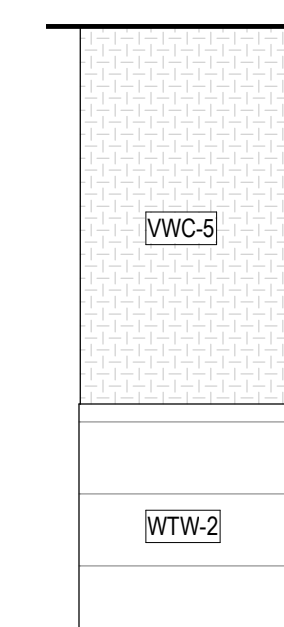
8 MEN'S ROOM
3/8" = 1'-0"



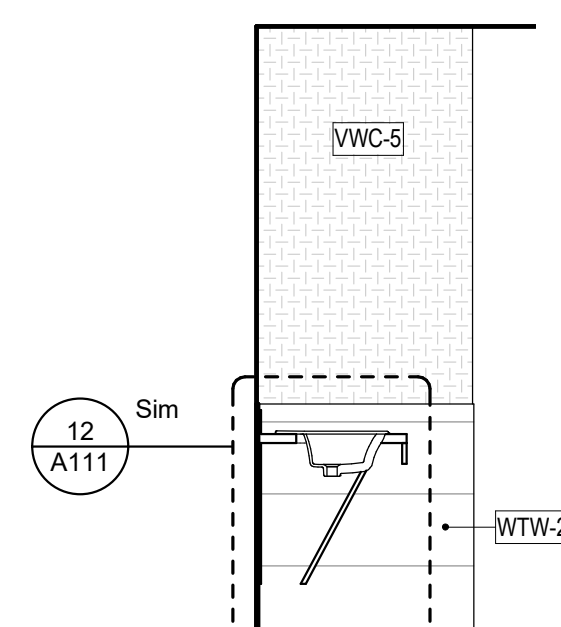
7 MEN'S ROOM
3/8" = 1'-0"



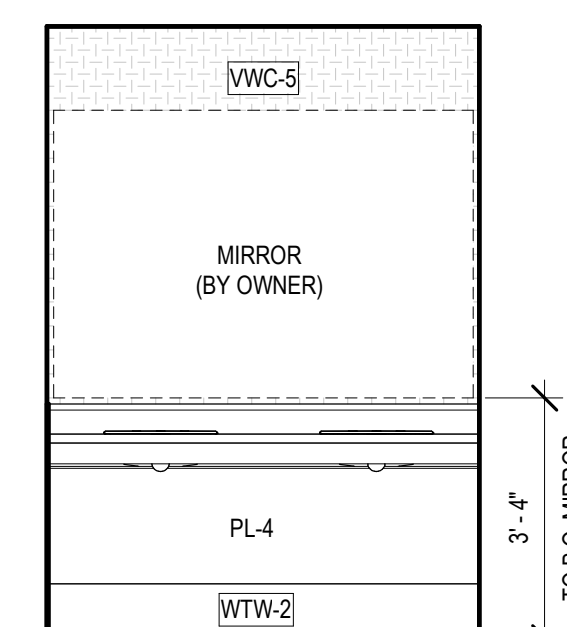
6 MEN'S ROOM
3/8" = 1'-0"



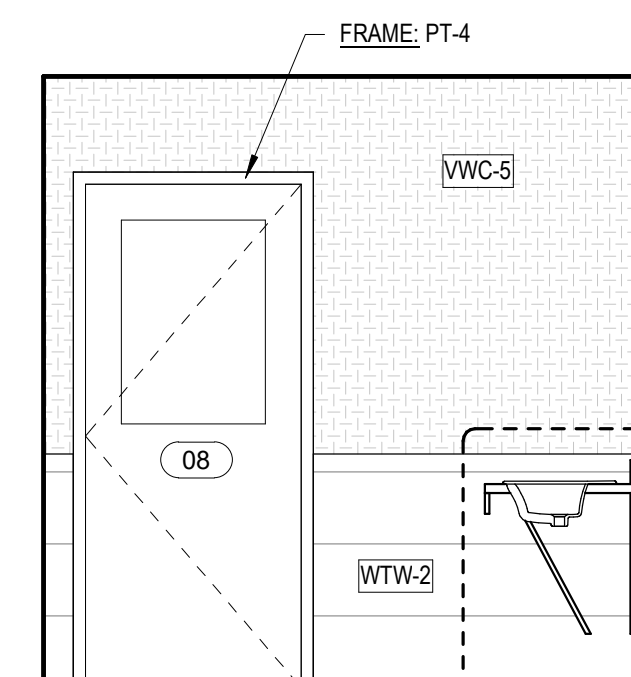
5 MEN'S ROOM
3/8" = 1'-0"



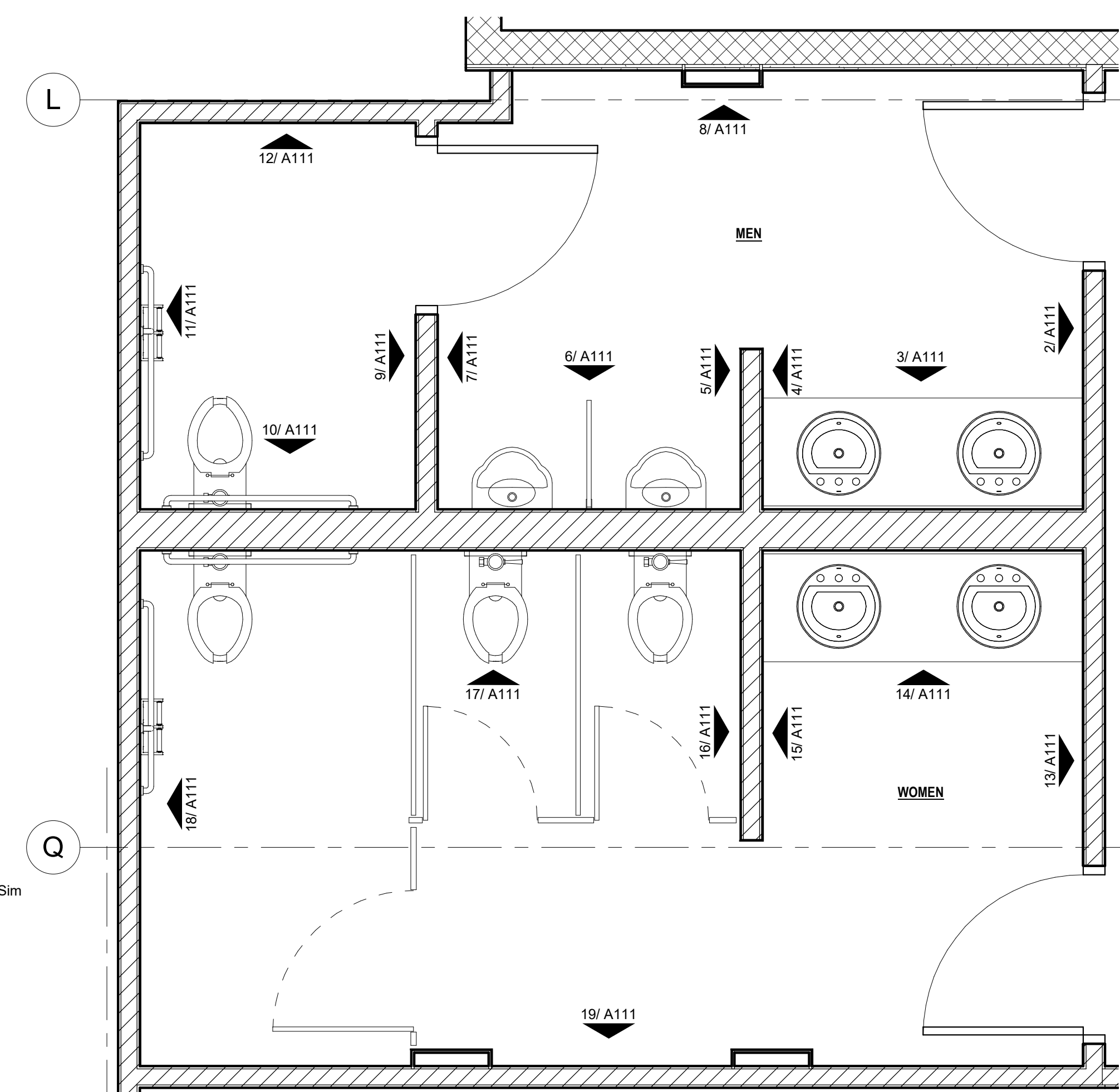
4 MEN'S ROOM
3/8" = 1'-0"



3 MEN'S ROOM
3/8" = 1'-0"

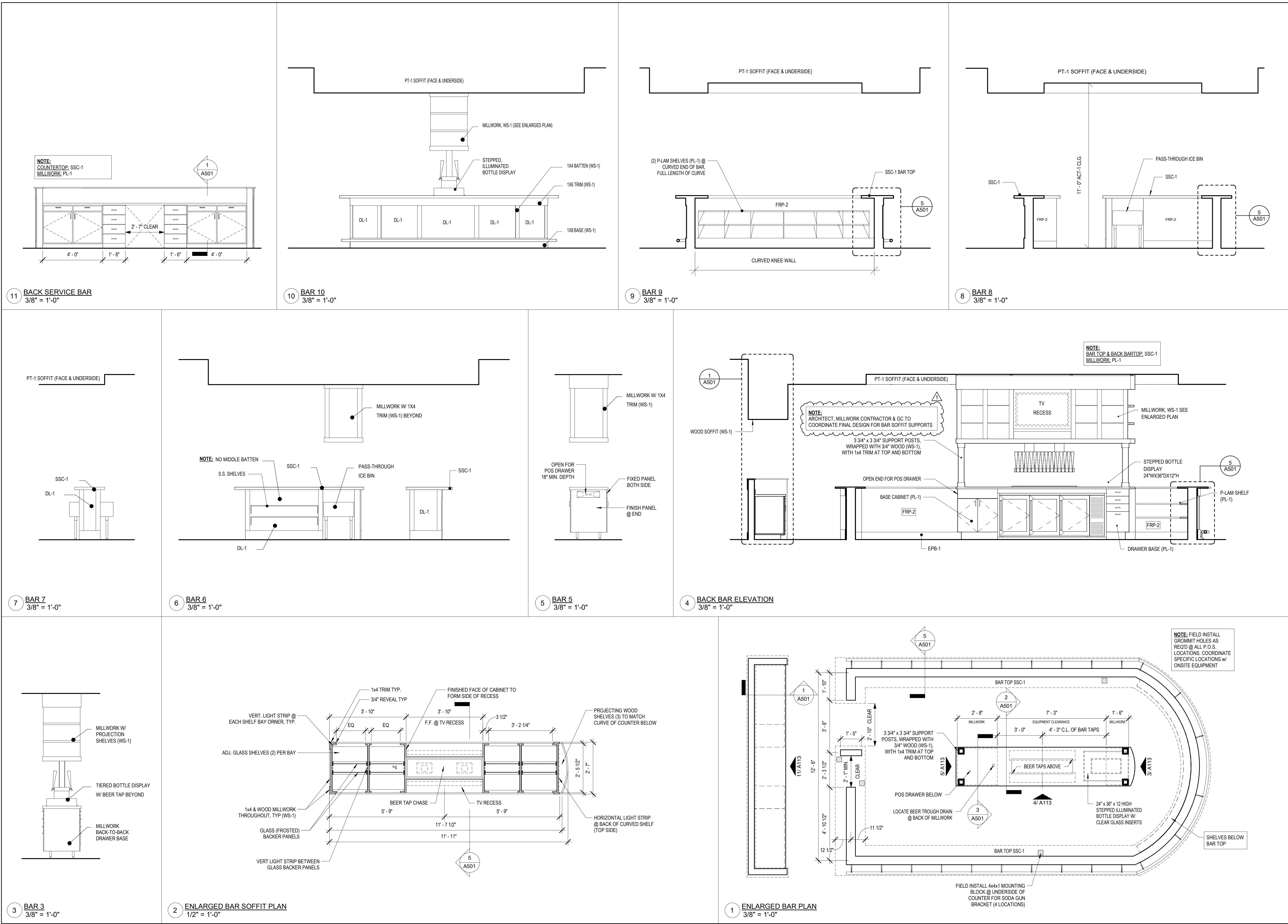


2 MEN'S ROOM
3/8" = 1'-0"



1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"





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No. 0050
STATE OF NEW HAMPSHIRE
Stamp:

**110 GRILL
PORTSMOUTH, NH**
99 HANOVER STREET, PORTSMOUTH, NH

ENLARGED PLANS IV

Prepared for:
Location:
Approver:
Title:

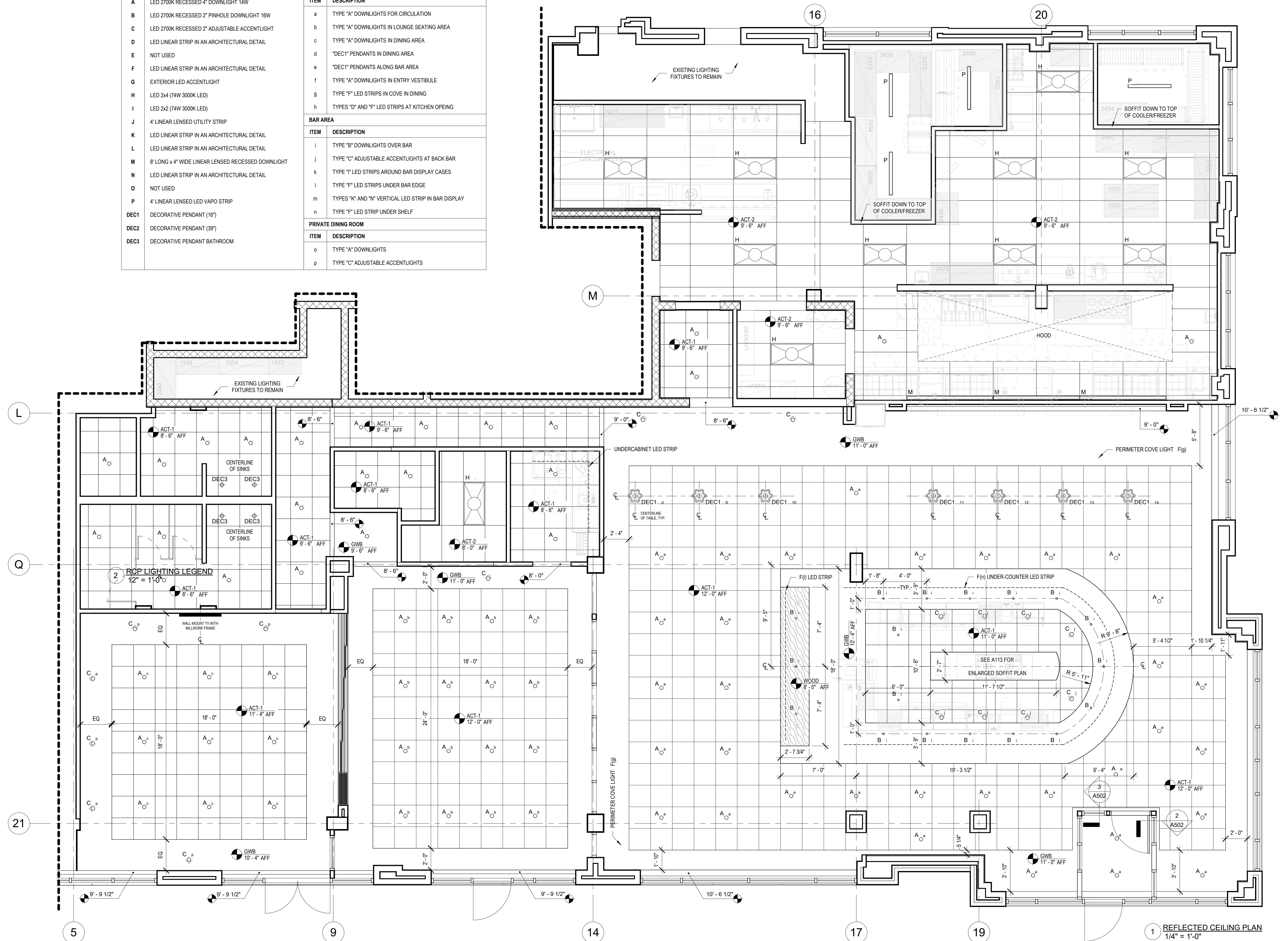
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Mark	Date	Revisions
1	06/25/2020	
	06/17/2020	

Scale:
Job No: 2196
Sheet No:

A113

LIGHTING FIXTURE LEGEND		CONTROL ZONES LEGEND	
ITEM	DESCRIPTION	DINING AREA	
A	LED 2700K RECESSED 4" DOWNLIGHT 14W	ITEM	DESCRIPTION
B	LED 2700K RECESSED 2" PINHOLE DOWNLIGHT 16W	a	TYPE "A" DOWNLIGHTS FOR CIRCULATION
C	LED 2700K RECESSED 2" ADJUSTABLE ACCENTLIGHT	b	TYPE "A" DOWNLIGHTS IN LOUNGE SEATING AREA
D	LED LINEAR STRIP IN AN ARCHITECTURAL DETAIL	c	TYPE "A" DOWNLIGHTS IN DINING AREA
E	NOT USED	d	"DEC1" PENDANTS IN DINING AREA
F	LED LINEAR STRIP IN AN ARCHITECTURAL DETAIL	e	"DEC1" PENDANTS ALONG BAR AREA
G	EXTERIOR LED ACCENTLIGHT	f	TYPE "A" DOWNLIGHTS IN ENTRY VESTIBULE
H	LED 2x4 (74W 3000K LED)	g	TYPE "F" LED STRIPS IN COVE IN DINING
I	LED 2x2 (74W 3000K LED)	h	TYPES "D" AND "F" LED STRIPS AT KITCHEN OPEING
J	4" LINEAR LENSED UTILITY STRIP	BAR AREA	
K	LED LINEAR STRIP IN AN ARCHITECTURAL DETAIL	ITEM	DESCRIPTION
L	LED LINEAR STRIP IN AN ARCHITECTURAL DETAIL	i	TYPE "B" DOWNLIGHTS OVER BAR
M	8" LONG x 4" WIDE LINEAR LENSED RECESSED DOWNLIGHT	j	TYPE "C" ADJUSTABLE ACCENTLIGHTS AT BACK BAR
N	LED LINEAR STRIP IN AN ARCHITECTURAL DETAIL	k	TYPE "T" LED STRIPS AROUND BAR DISPLAY CASES
O	NOT USED	l	TYPE "T" LED STRIPS UNDER BAR EDGE
P	4" LINEAR LENSED LED VAPO STRIP	m	TYPES "K" AND "N" VERTICAL LED STRIP IN BAR DISPLAY
DEC1	DECORATIVE PENDANT (16")	n	TYPE "F" LED STRIP UNDER SHELF
DEC2	DECORATIVE PENDANT (39")	PRIVATE DINING ROOM	
DEC3	DECORATIVE PENDANT BATHROOM	ITEM	DESCRIPTION
		o	TYPE "A" DOWNLIGHTS
		p	TYPE "C" ADJUSTABLE ACCENTLIGHTS

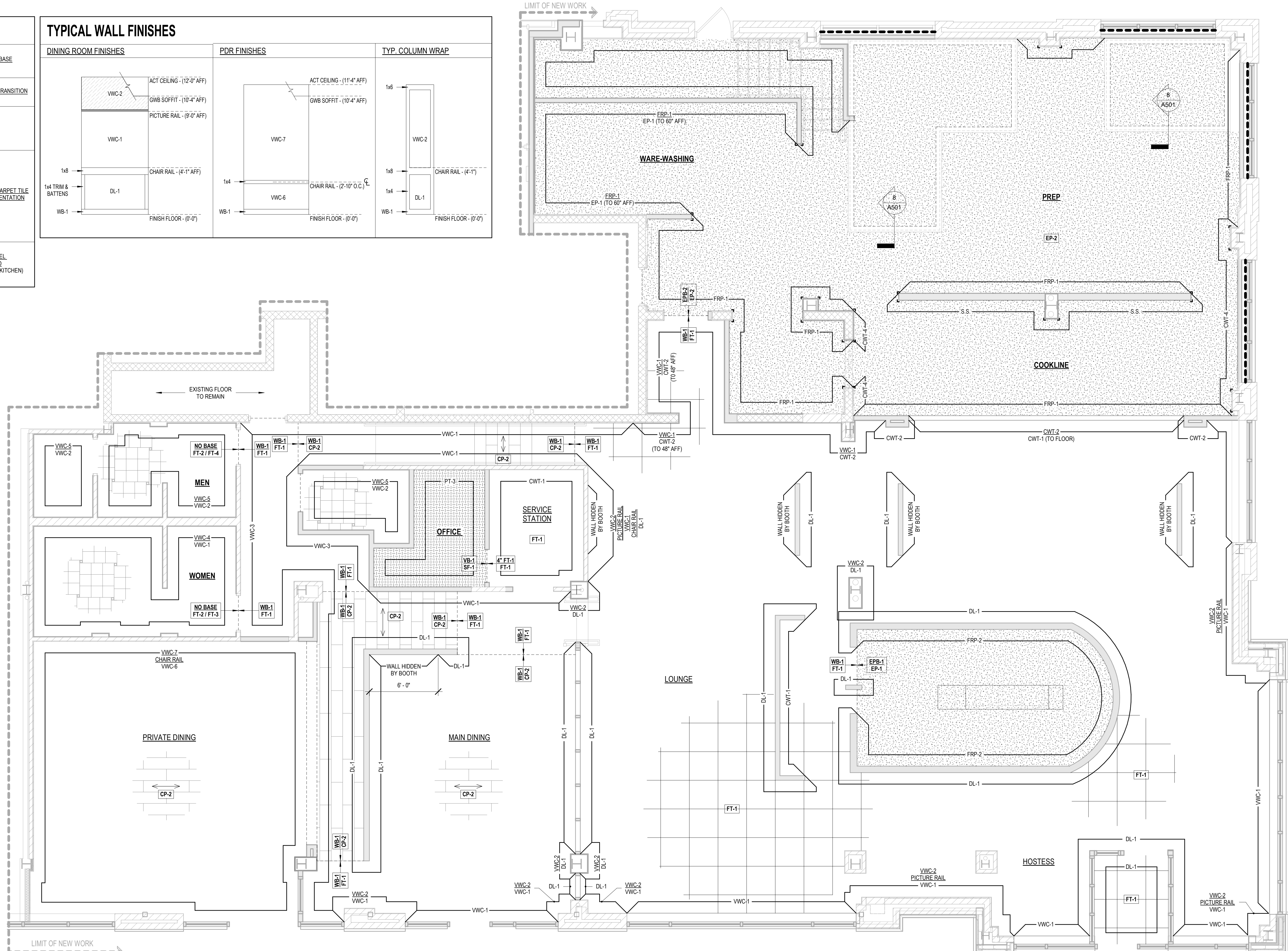


FINISH LEGEND

WB-1 FT-1	WALL BASE FLOOR MATERIAL
	FLOOR FINISH TRANSITION
PT-1 PT-2	WALL FINISHES
	FLOOR TILE & CARPET TILE PATTERN & ORIENTATION
	STAINLESS STEEL CORNER GUARD (THROUGHOUT KITCHEN)

TYPICAL WALL FINISHES

DINING ROOM FINISHES	PDR FINISHES	TYP. COLUMN WRAP

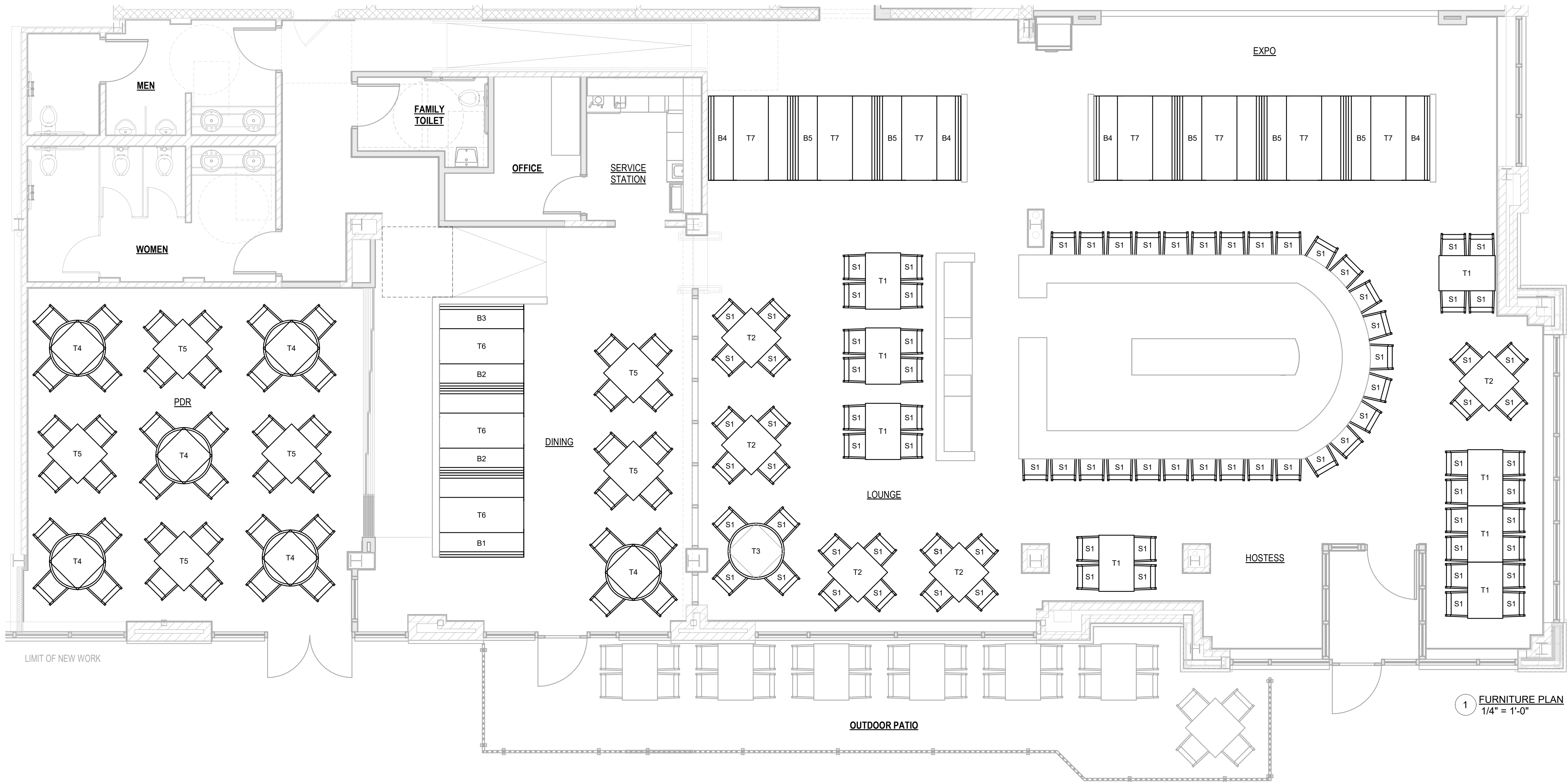


NOTE:
NO CARPET IN VESTIBULE. THROW-DOWN
AREA MAT TO BE PURCHASED BY OWNER.

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

FURNITURE SCHEDULE								
Tag	Count	Description	Table Top	Seat Crown	Booth Back	Manufacturer	Fabric - Seat	Fabric - Back
BOOTH								
B1	1	Booth Bench - Single		Seat - 19"	Back - 42"		Canter - Ancho	Fuse - Pimento
B2	2	Booth Bench - Double		Seat - 19"	Back - 42"		Canter - Ancho	Fuse - Pimento
B3	1	Booth Bench - Double		Seat - 18"	Back - 42"		Canter - Ancho	Fuse - Pimento
B4	4	Booth Bench - Single		Seat - 31"	Back - 51"		Canter - Ancho	Axis - Energy
B5	5	Booth Bench - Double		Seat - 31"	Back - 51"		Canter - Ancho	Axis - Energy
CHAIR								
C1	48	Dining Chair		Seat - 18"		Bernhardt Design	Canter - Ancho	Fuse - Pimento
STOOL								
S1	84	Bar & Lounge Stool		Seat - 30"		Bernhardt Design	Canter - Ancho	Axis - Energy
TABLE								
T1	8	High Top Table	Top - 42"					
T2	5	High Top Table	Top - 42"					
T3	1	Flip Top Table	Top - 42"					
T4	6	Flip Top Table	Top - 30"					
T5	7	Low Top Table	Top - 30"					
T6	3	Low Top Table	Top - 30"					
T7	7	High Top Table	Top - 42"					

TABLES				BANQUETTE/BOOTHS		
HIGH TOPS				HIGH BOOTHS		HIGH BOOTHS
T1	T2	T3	T7	B1	B2	B3
LOW TOPS				LOW BOOTHS		LOW BOOTHS
T4	T5	T6		B4	B5	
						EXPO BOOTHS: B4, B5
						MAIN DINING: B1, B2, B3



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

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REGISTERED ARCHITECT
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No. 2583
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INTERIOR FURNITURE
PLAN

Prepared for:

Location: Approver

title

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1 06/25/2020

Mark Date

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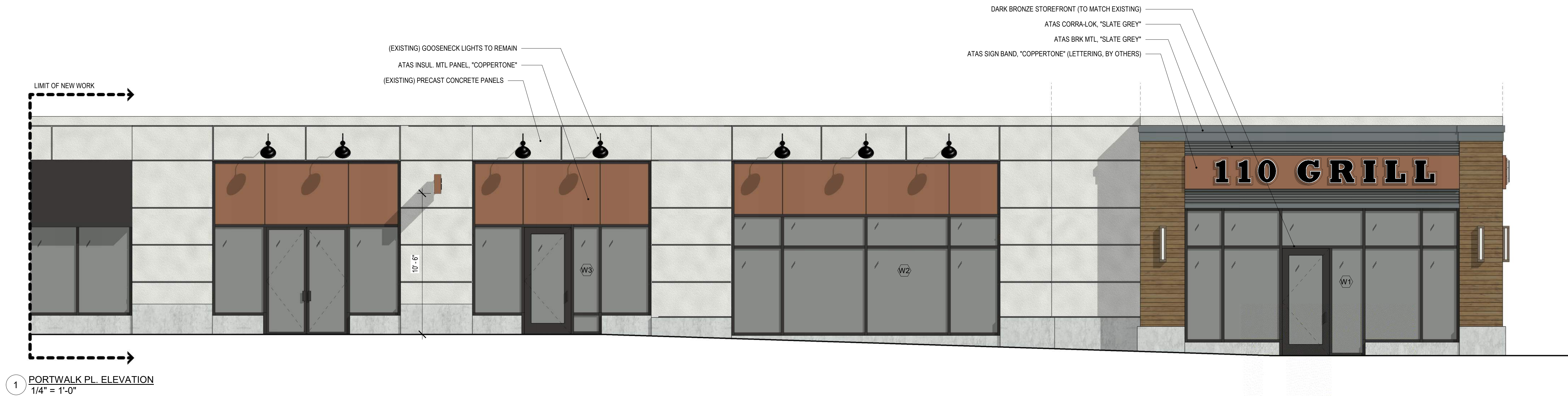
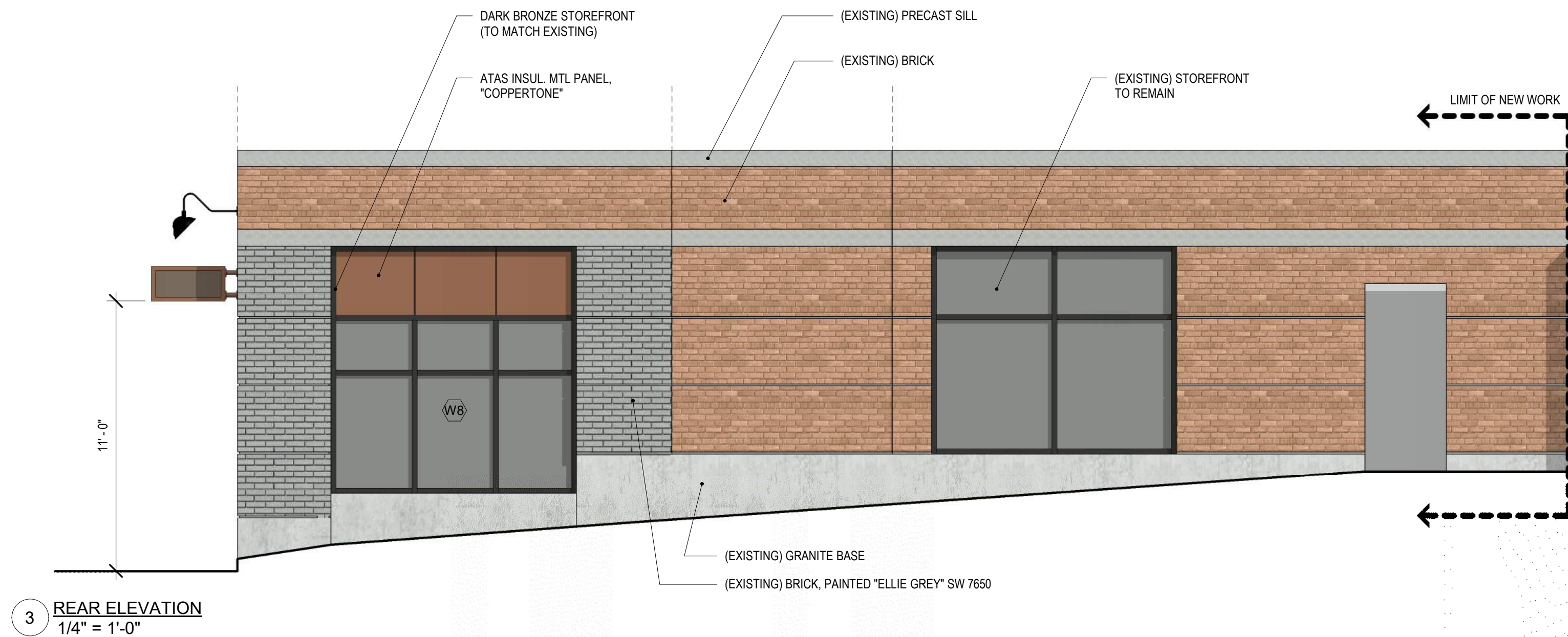
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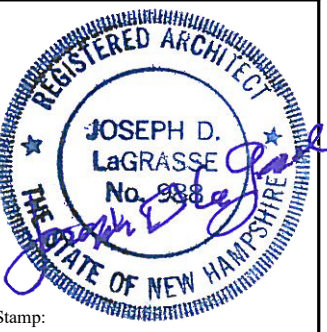
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Job No. 2196

Sheet No.

A122





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EXTERIOR WALL SECTIONS

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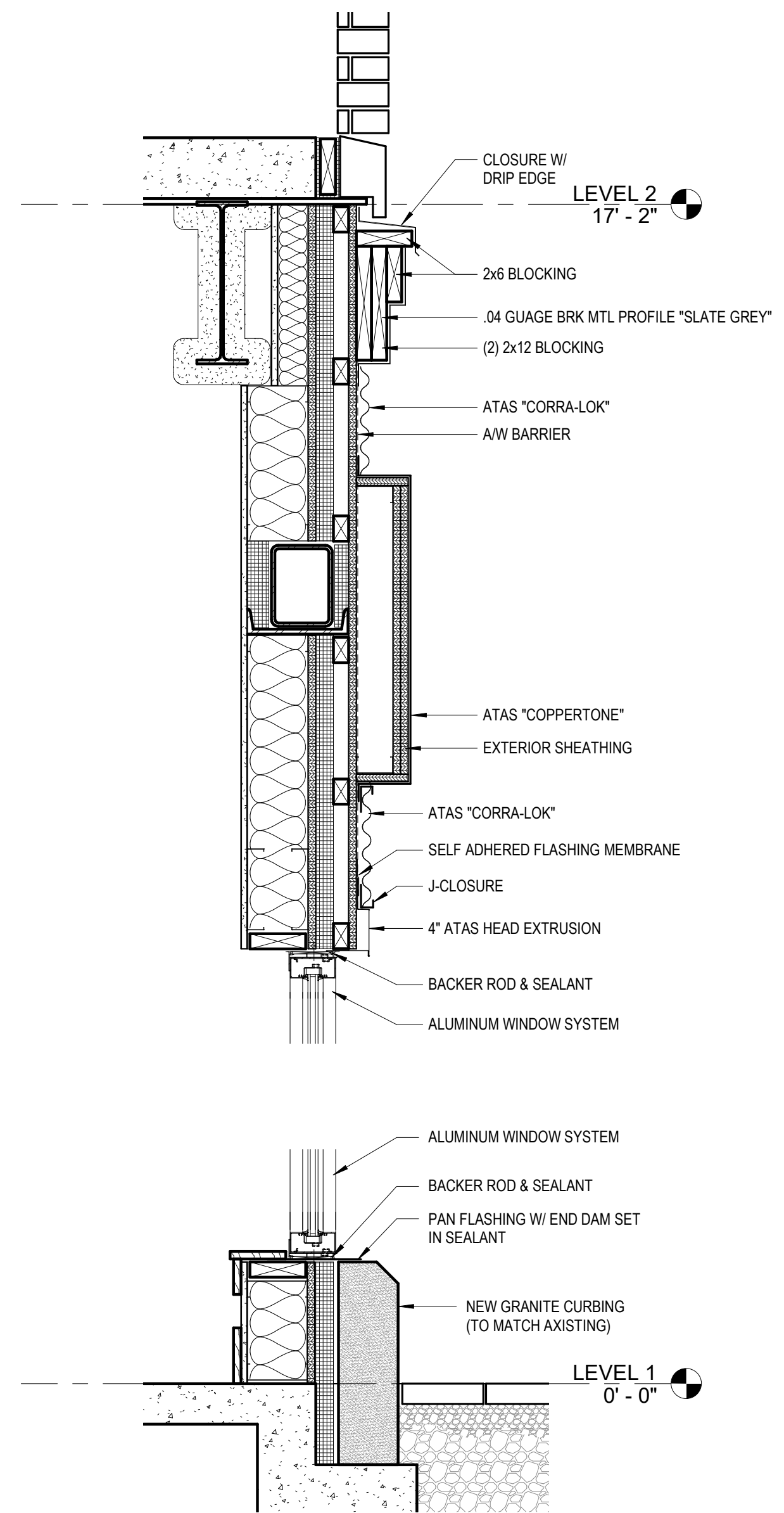
7/13/2020
Date

Revisions
07/09/20

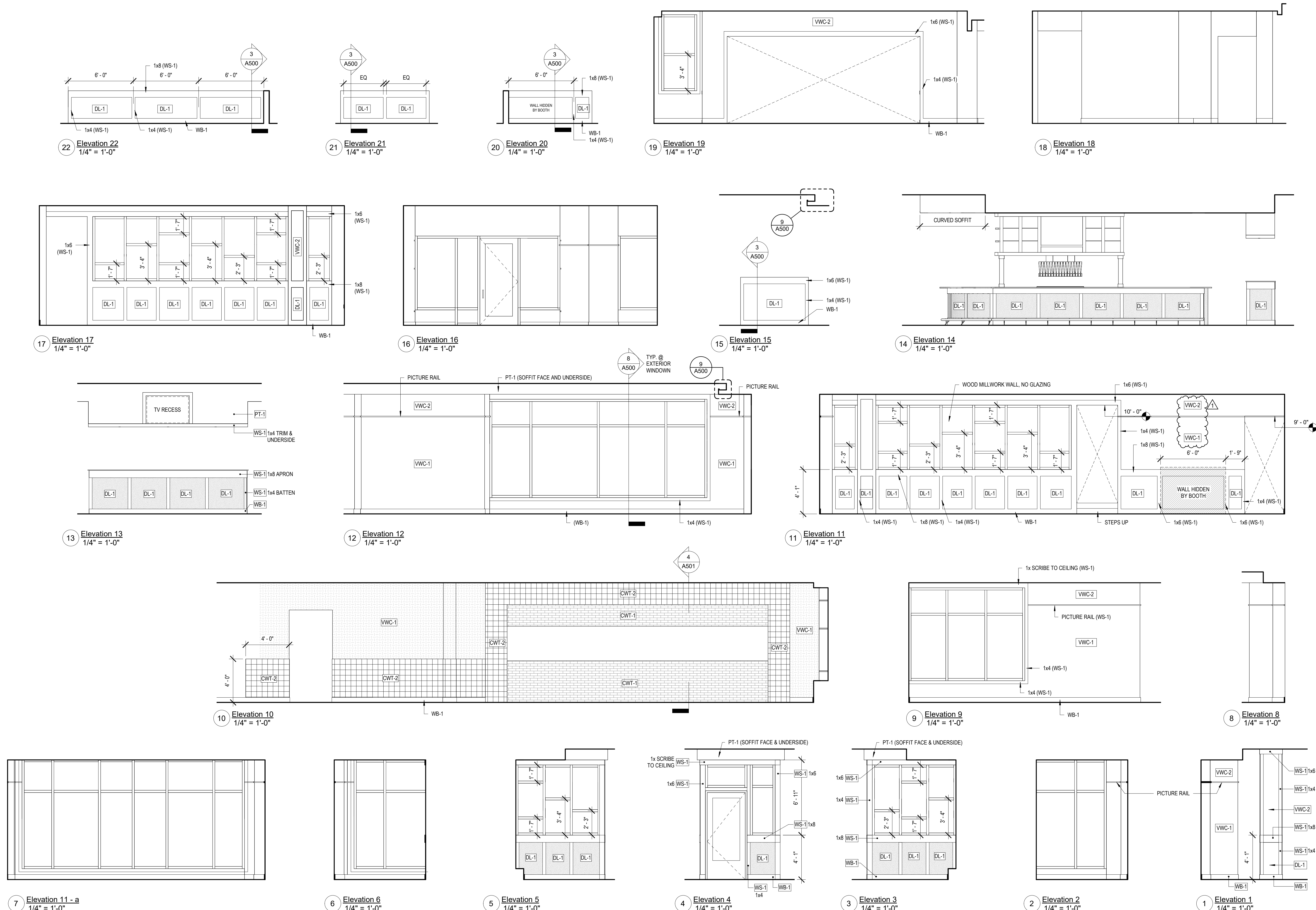
1" = 1'-0"
2196

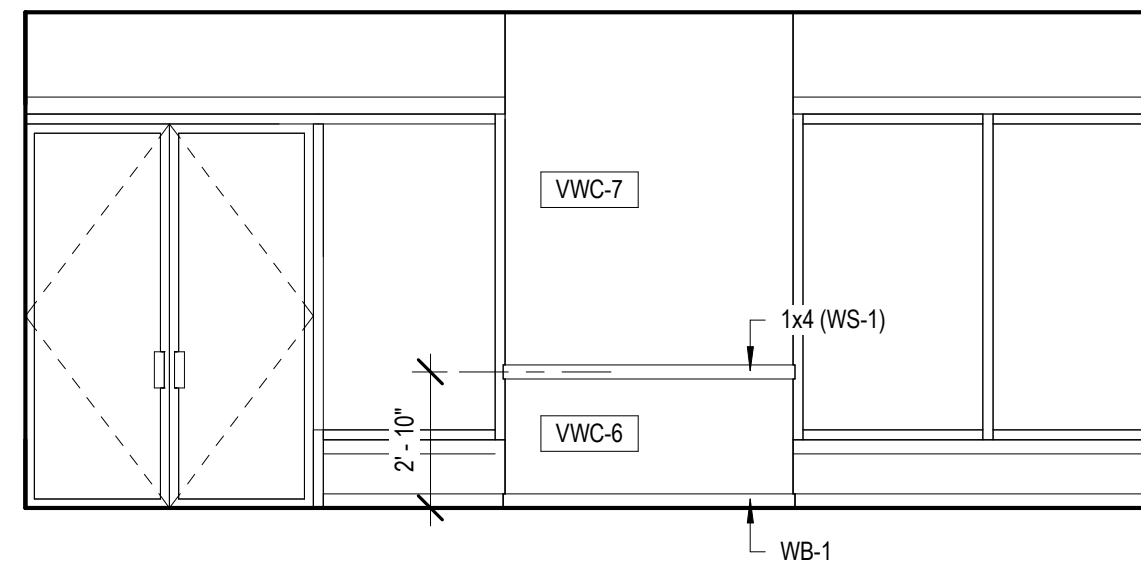
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A320

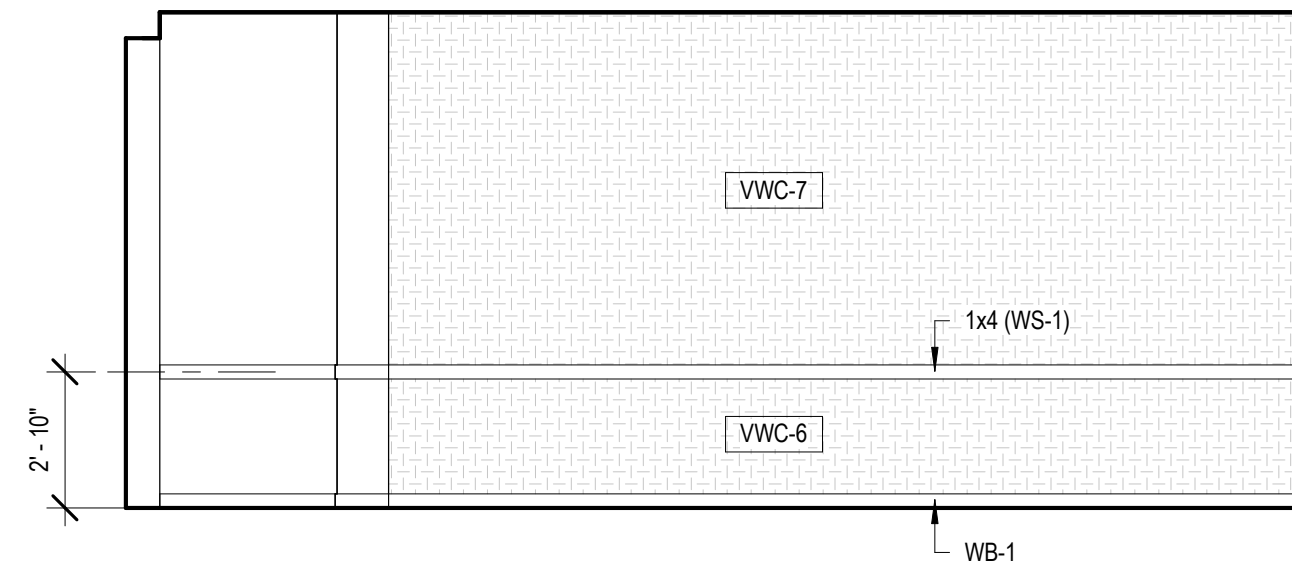


1 TYP. SECTION @ EXTERIOR WALL
1" = 1'-0"

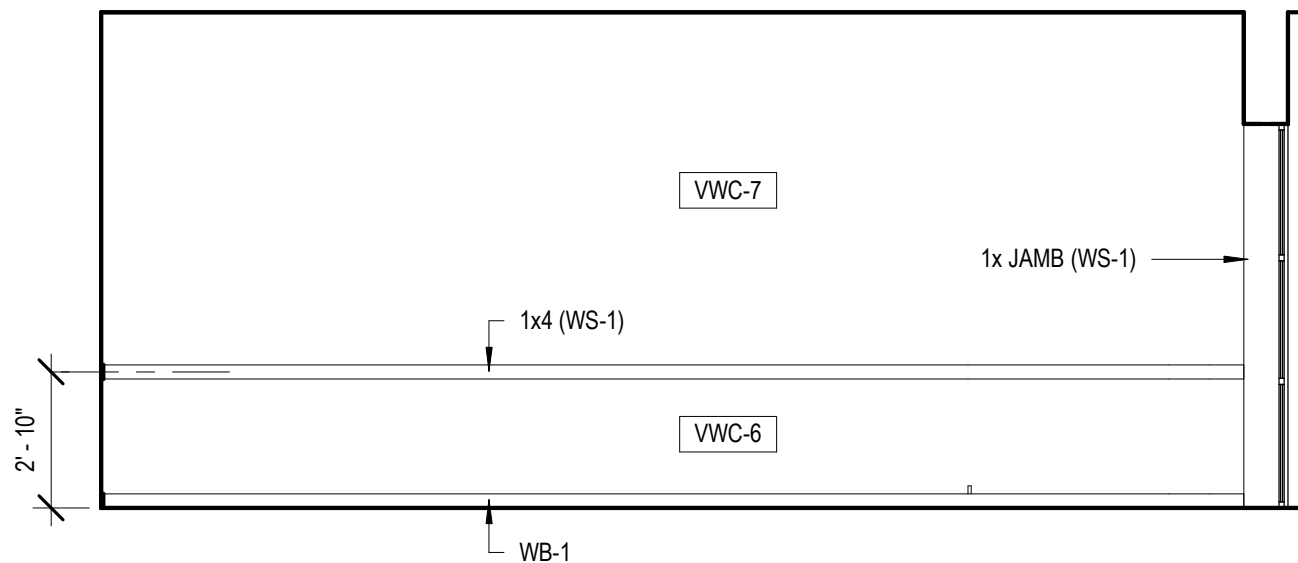




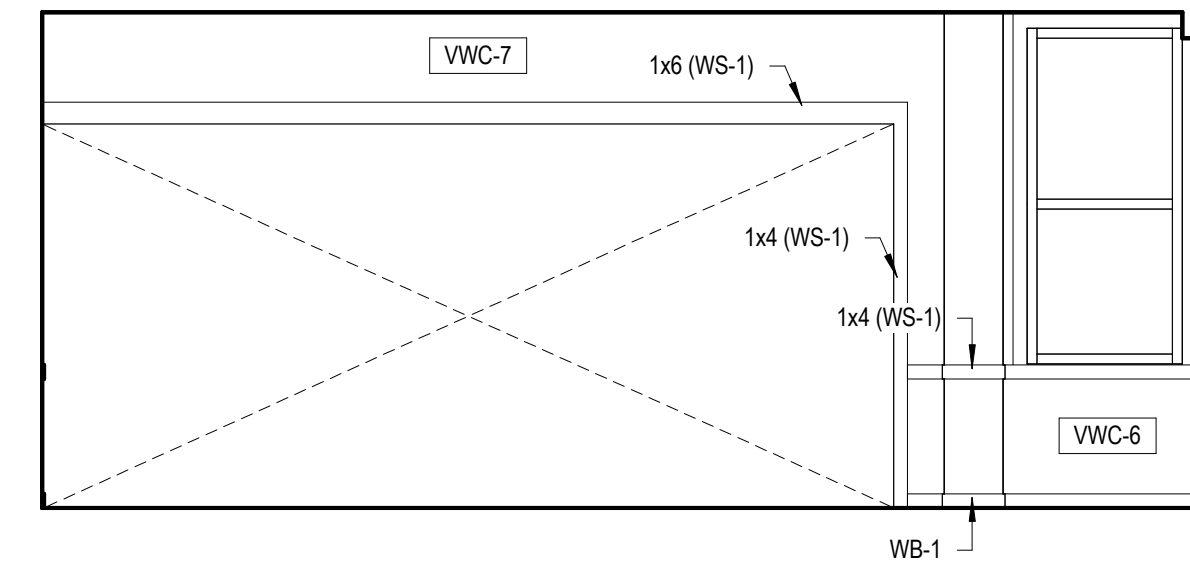
34 PRIVATE DINING ROOM
1/4" = 1'-0"



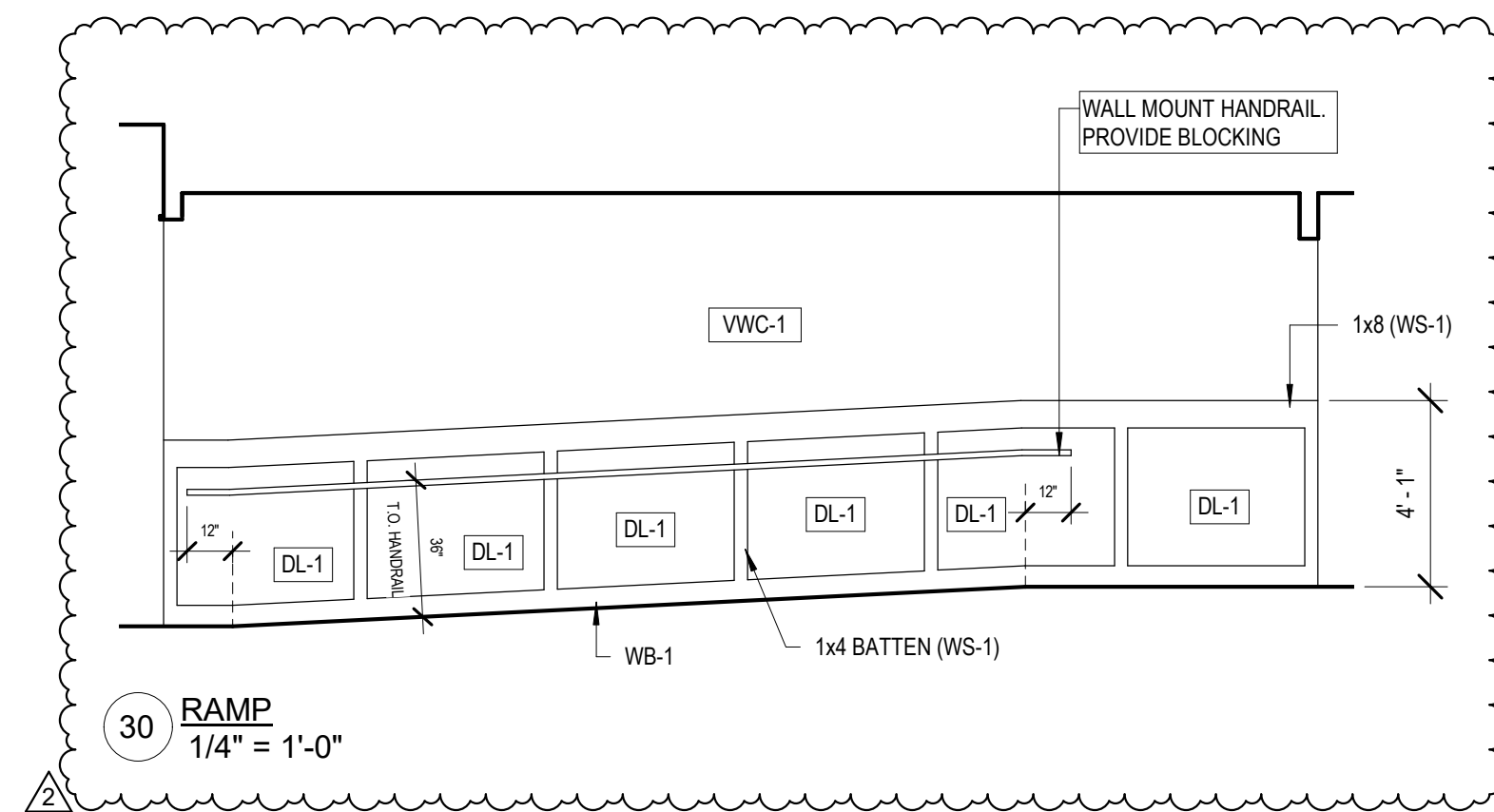
33 PRIVATE DINING ROOM
1/4" = 1'-0"



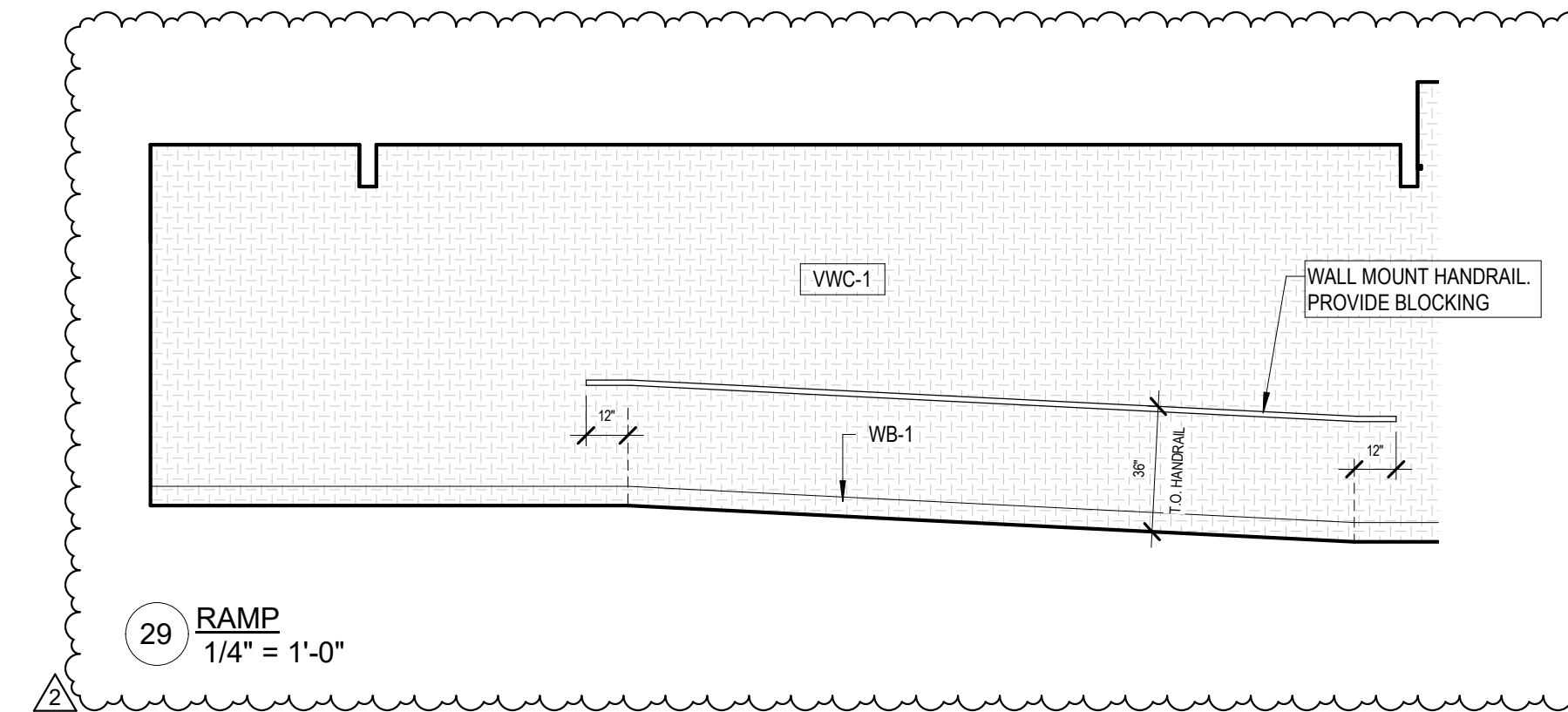
32 PRIVATE DINING ROOM
1/4" = 1'-0"



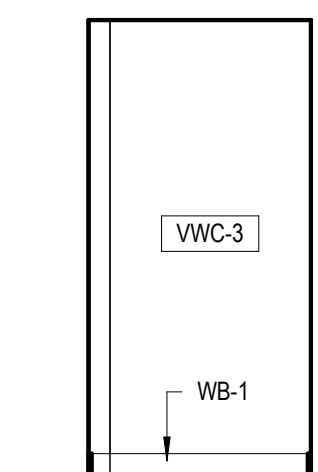
31 PRIVATE DINING ROOM
1/4" = 1'-0"



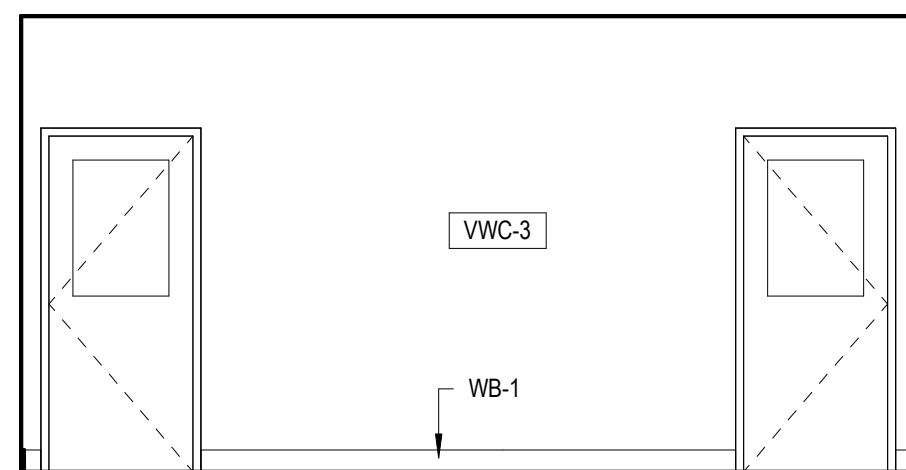
30 RAMP
1/4" = 1'-0"



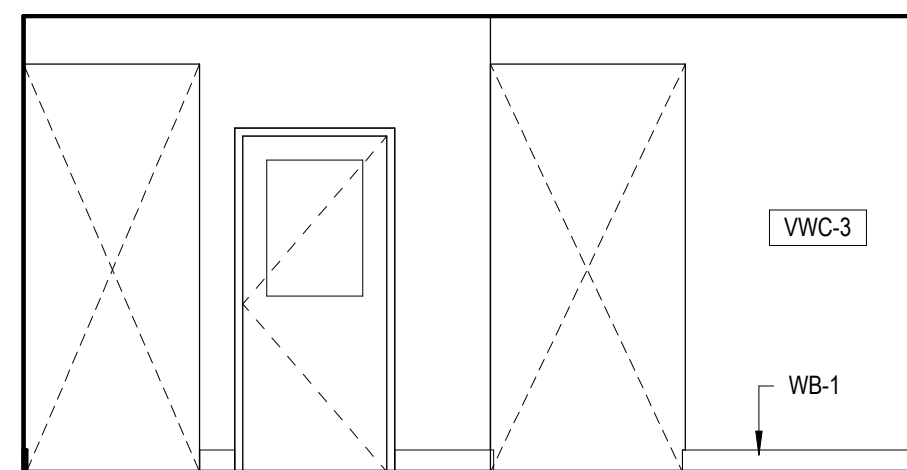
29 RAMP
1/4" = 1'-0"



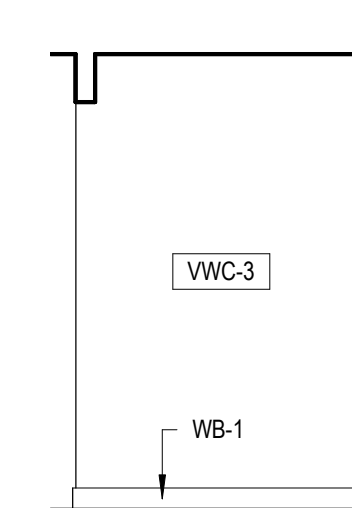
28 Elevation 28
1/4" = 1'-0"



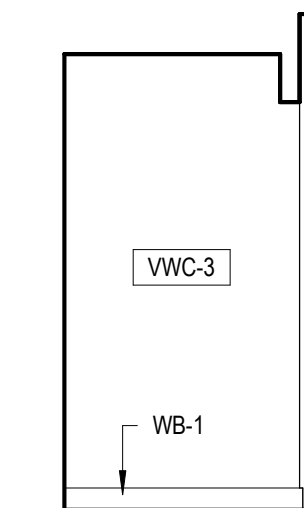
27 Elevation 27
1/4" = 1'-0"



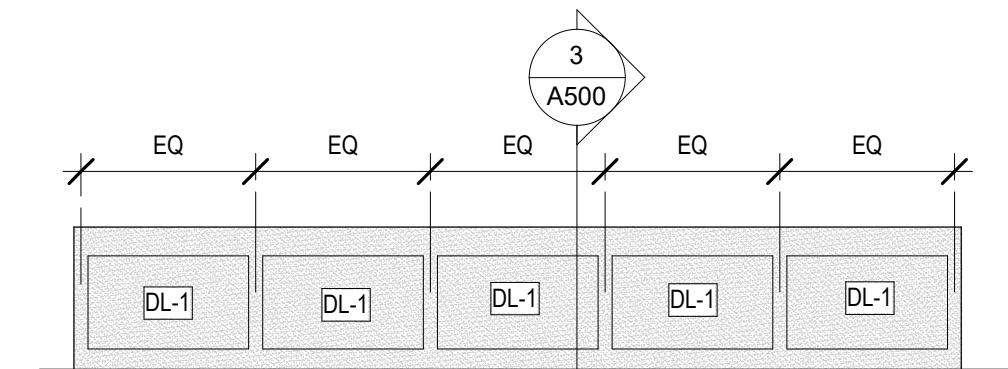
26 Elevation 26
1/4" = 1'-0"



25 Elevation 25
1/4" = 1'-0"



24 Elevation 24
1/4" = 1'-0"



23 Elevation 23
1/4" = 1'-0"



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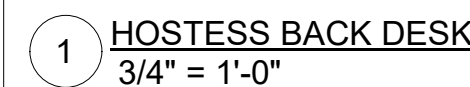
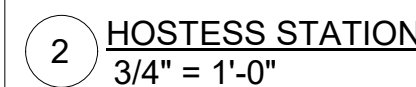
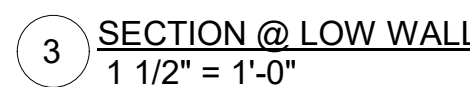
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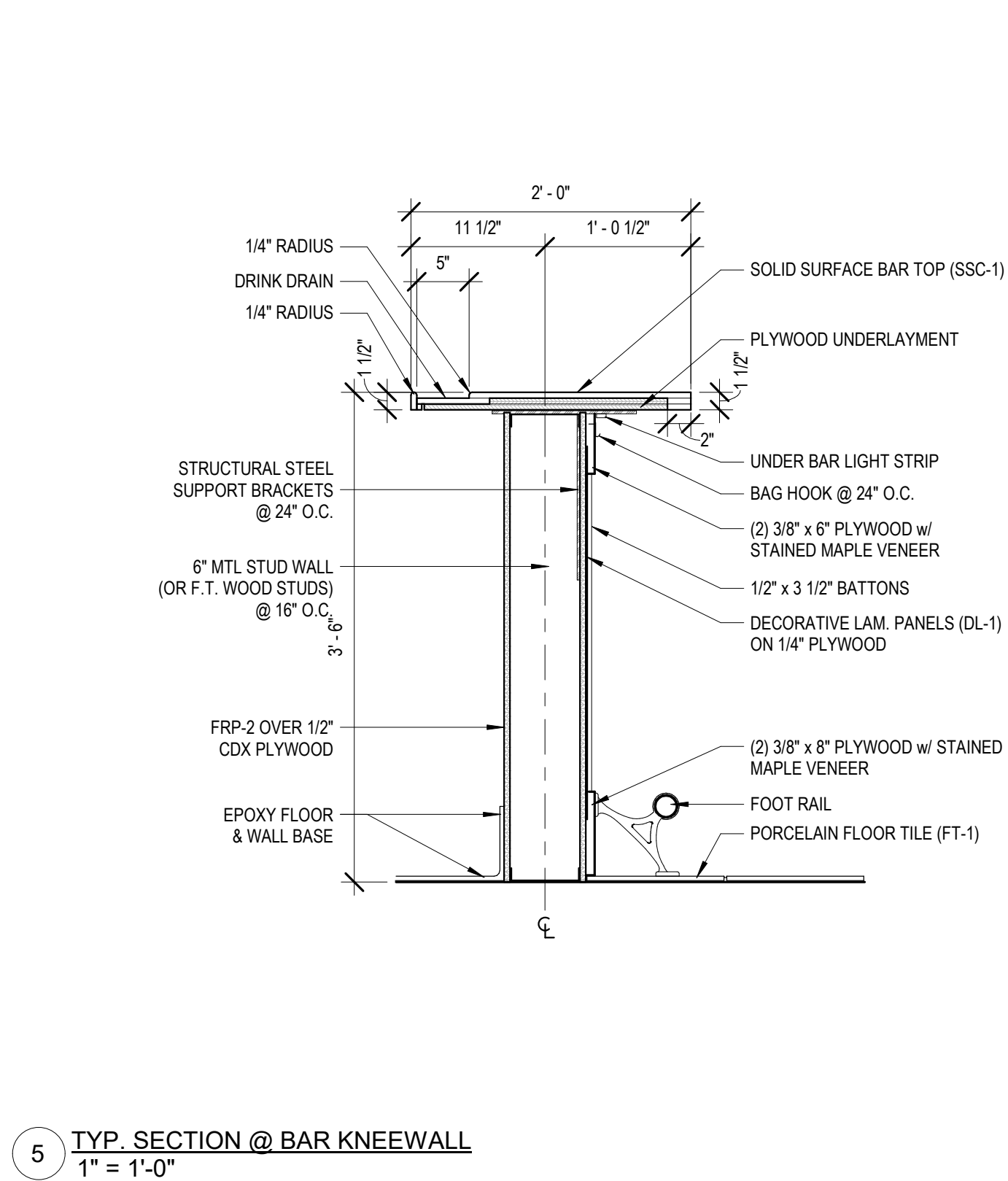
prepared for:
location: Approver

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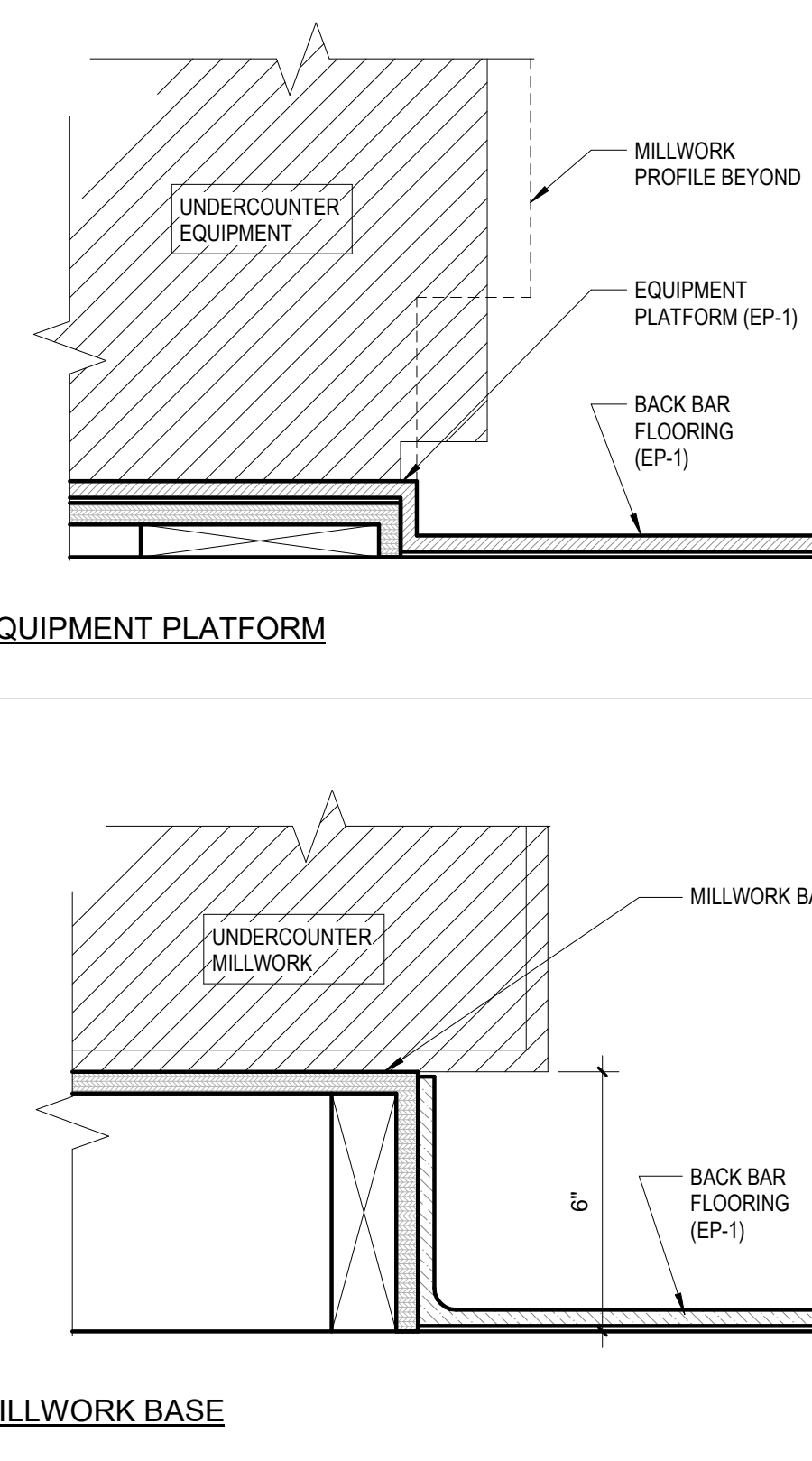
Mark	Date
Revisions	
Date	06/17/2020
Scale	
Job No.	2196
Sheet No.	

A500



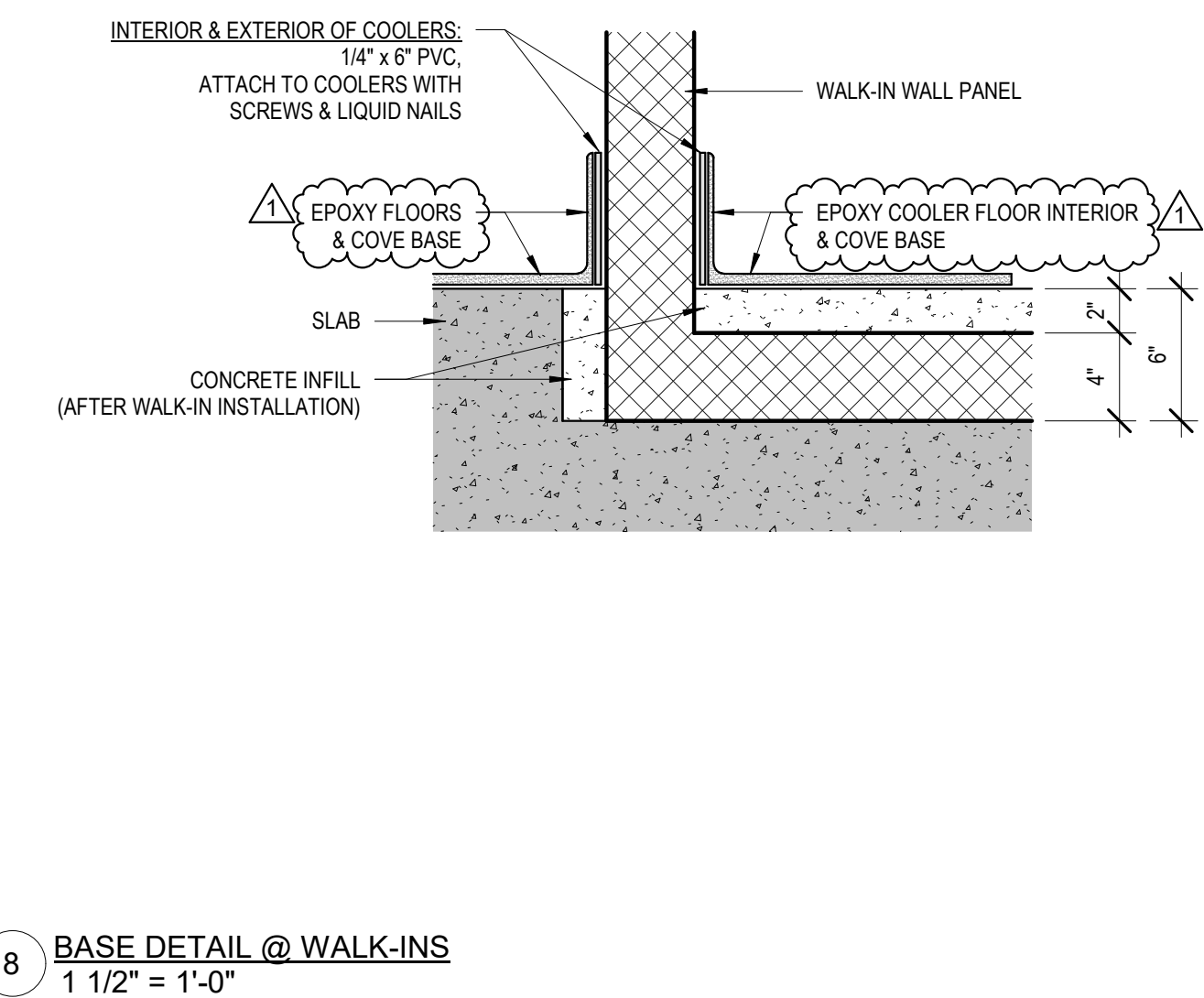


5 TYP. SECTION @ BAR KNEEWALL
1" = 1'-0"

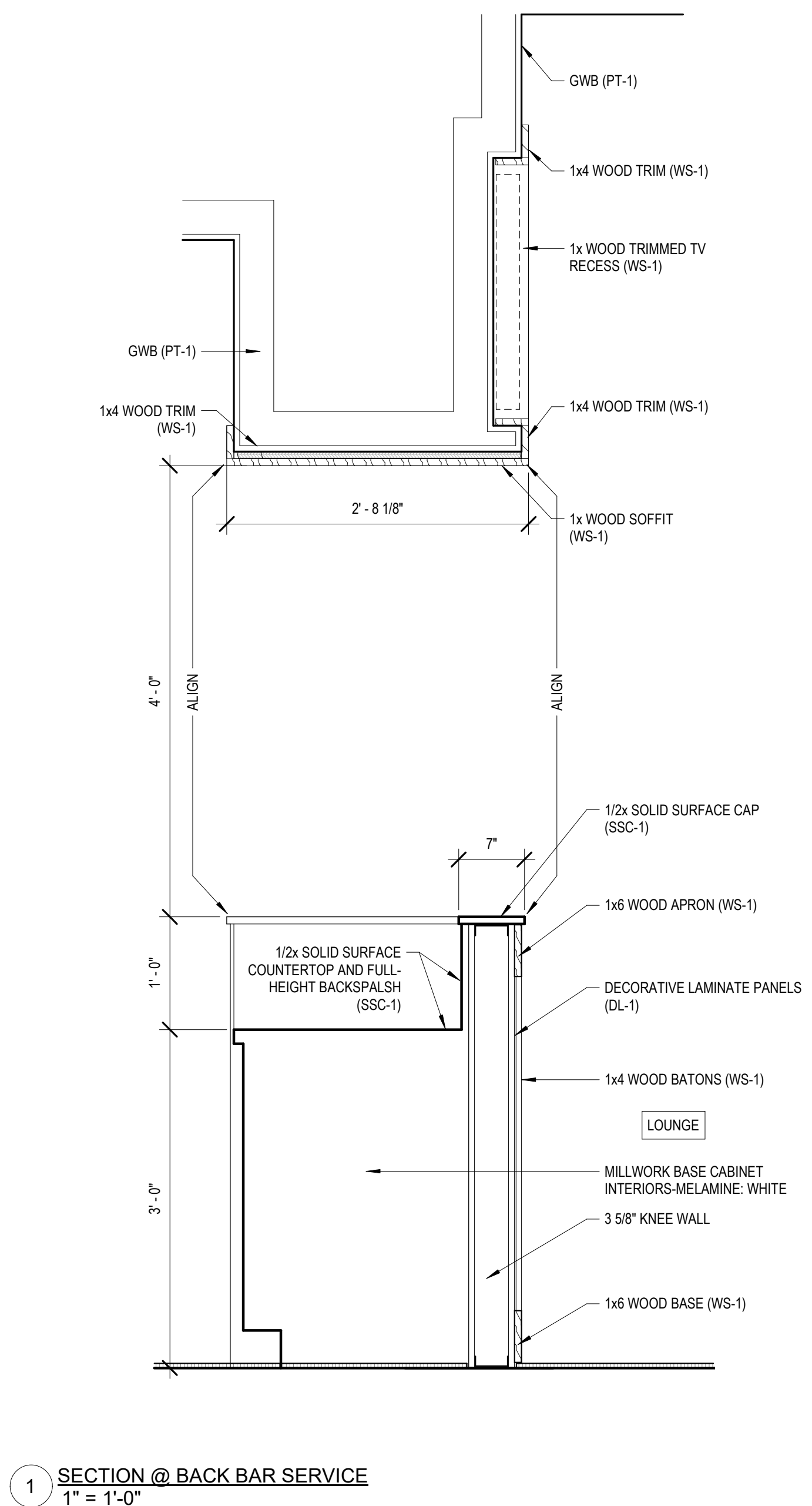


7 DETAIL @ EQUIPMENT PLATFORM
3" = 1'-0"

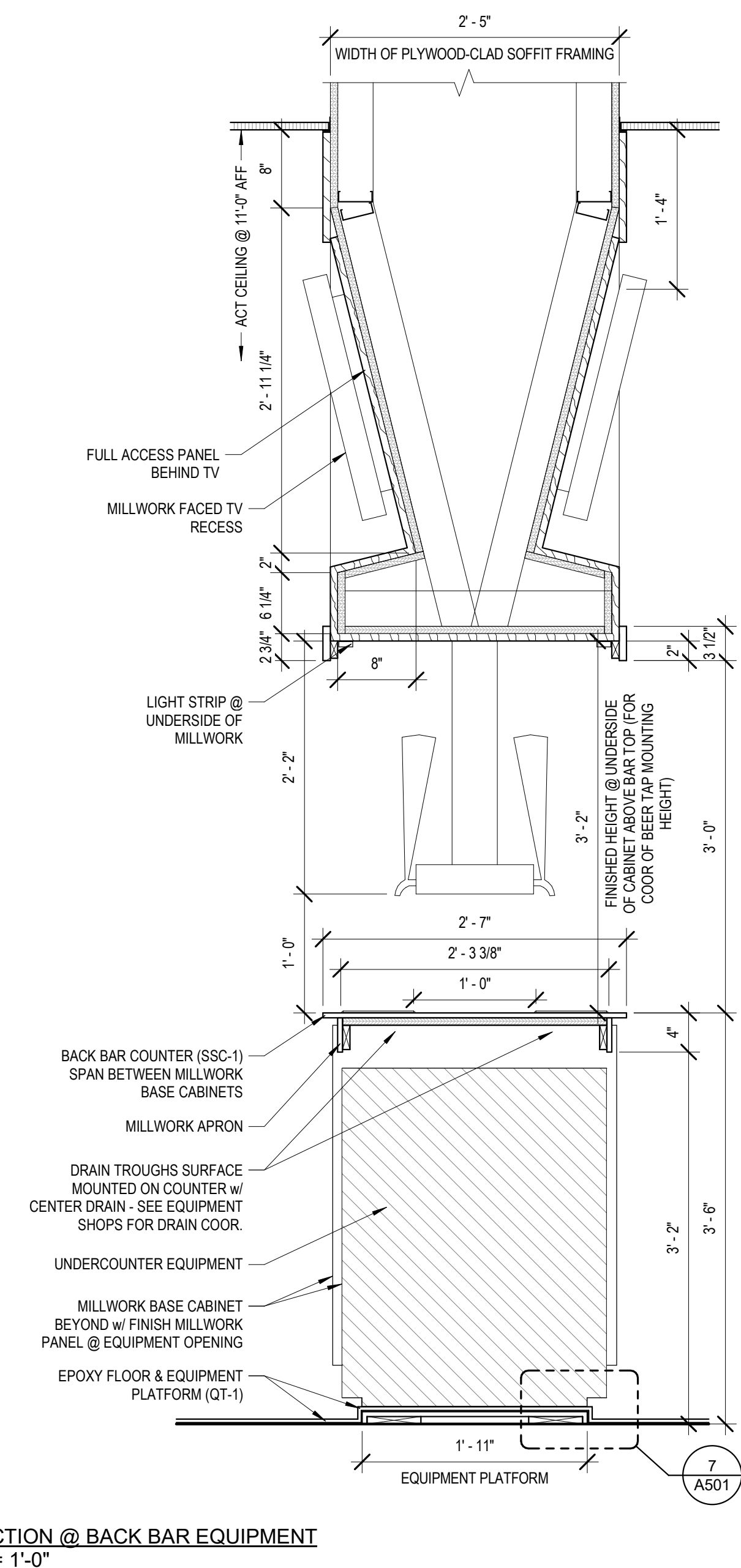
6 DETAIL @ MILLWORK BASE
3" = 1'-0"



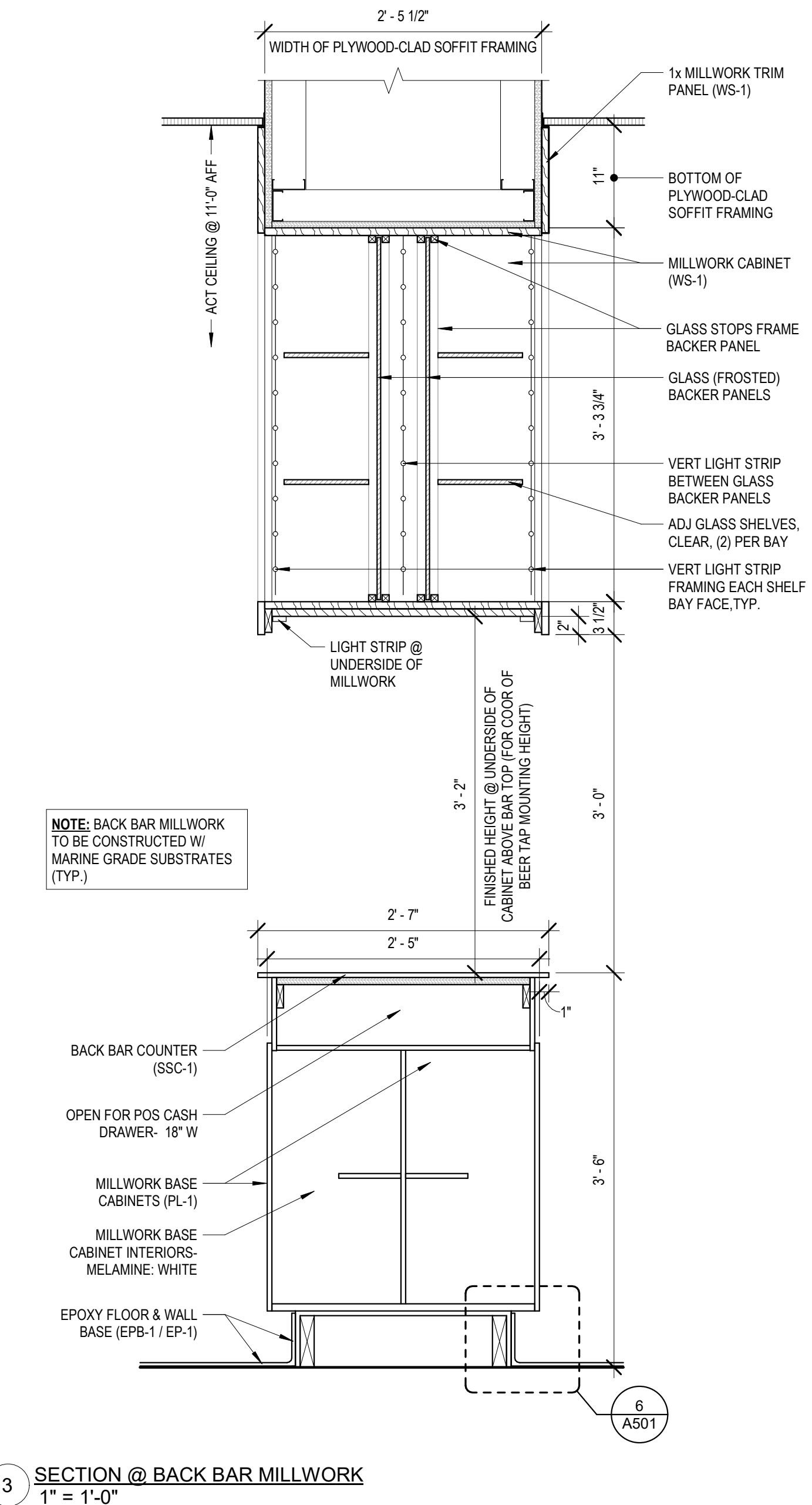
8 BASE DETAIL @ WALK-INS
1 1/2" = 1'-0"



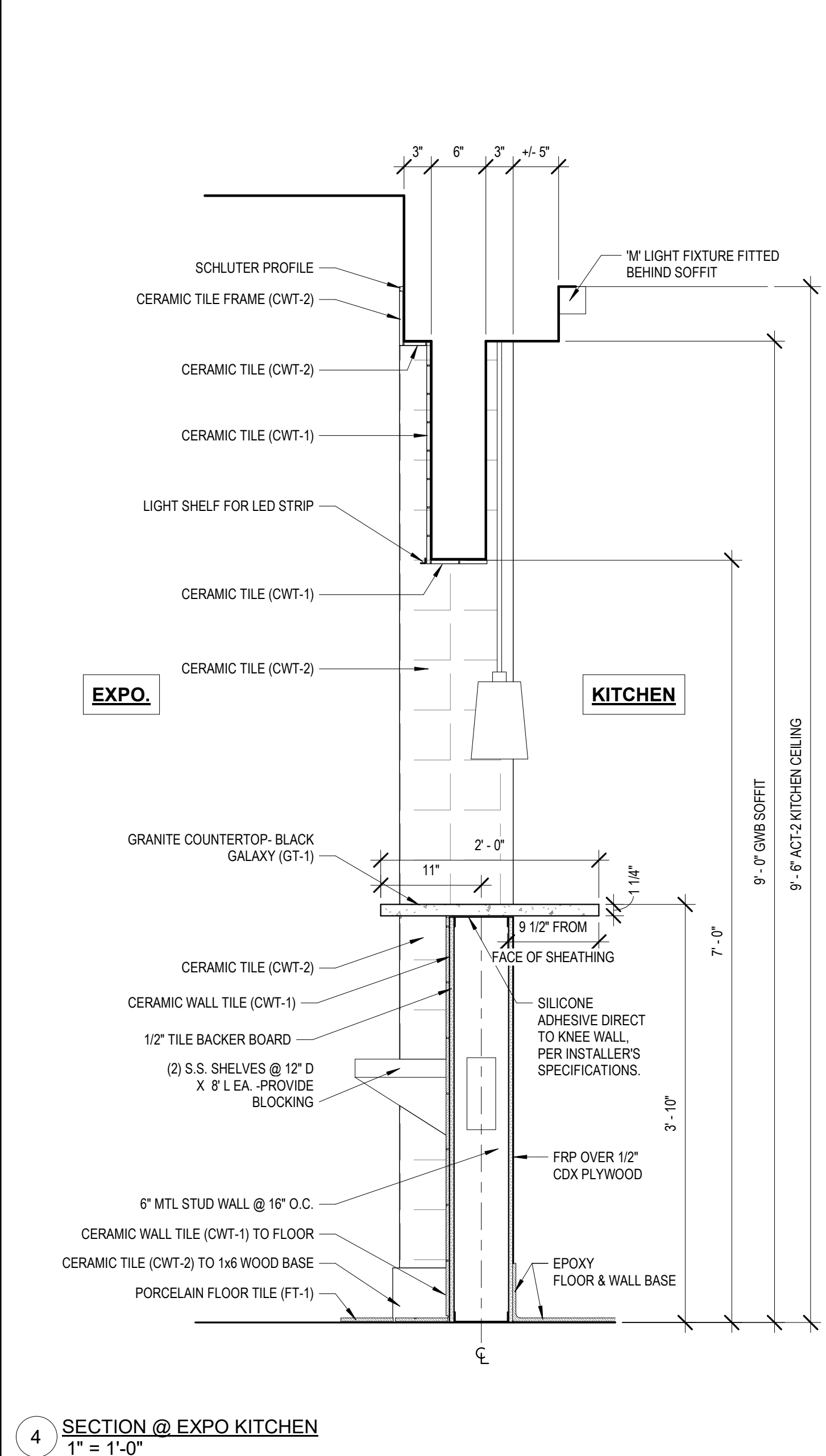
1 SECTION @ BACK BAR SERVICE
1" = 1'-0"



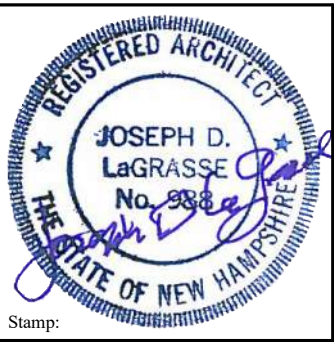
2 SECTION @ BACK BAR EQUIPMENT
1" = 1'-0"



3 SECTION @ BACK BAR MILLWORK
1" = 1'-0"



4 SECTION @ EXPO KITCHEN
1" = 1'-0"



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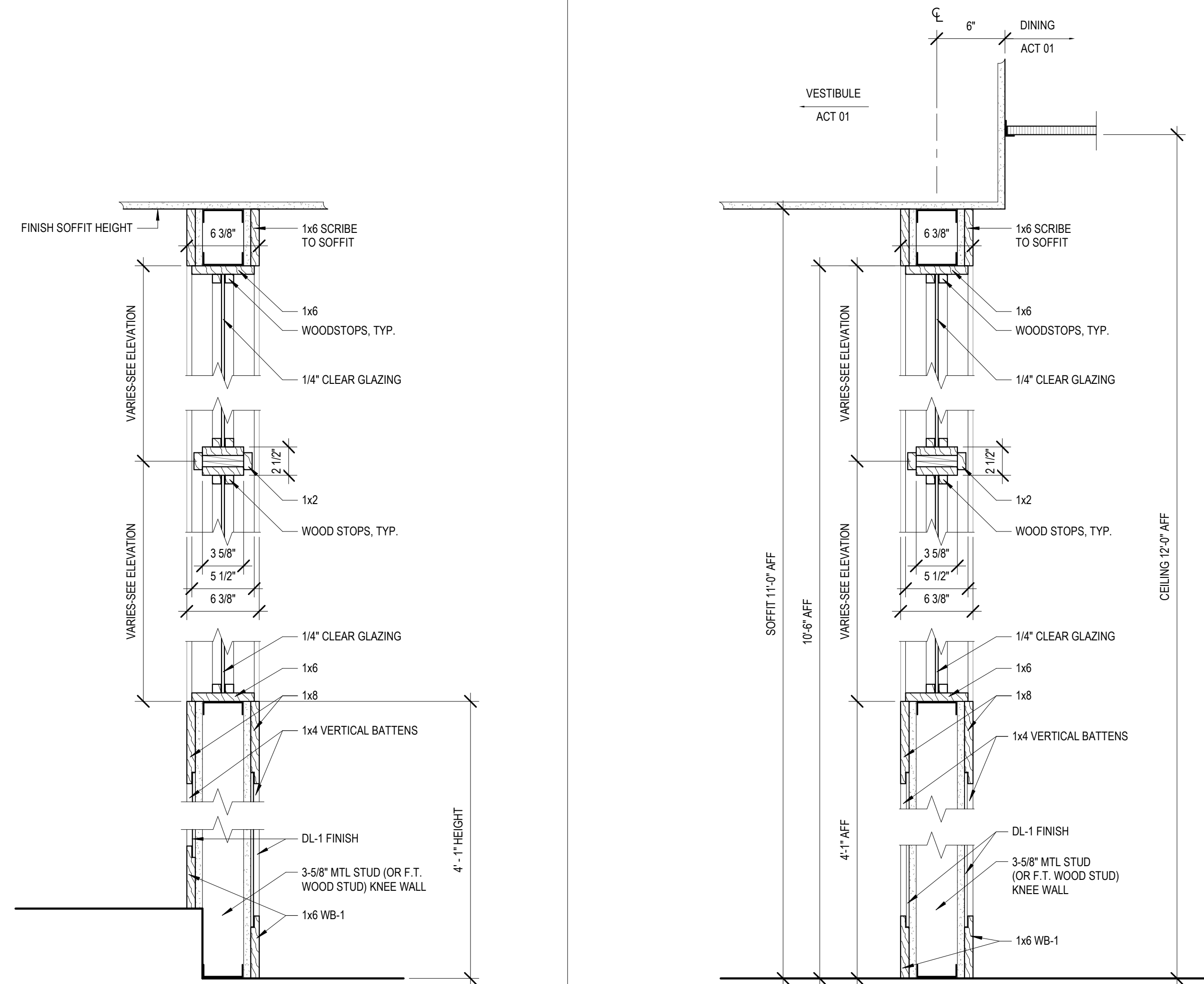
DETAILS III

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Location: Approver
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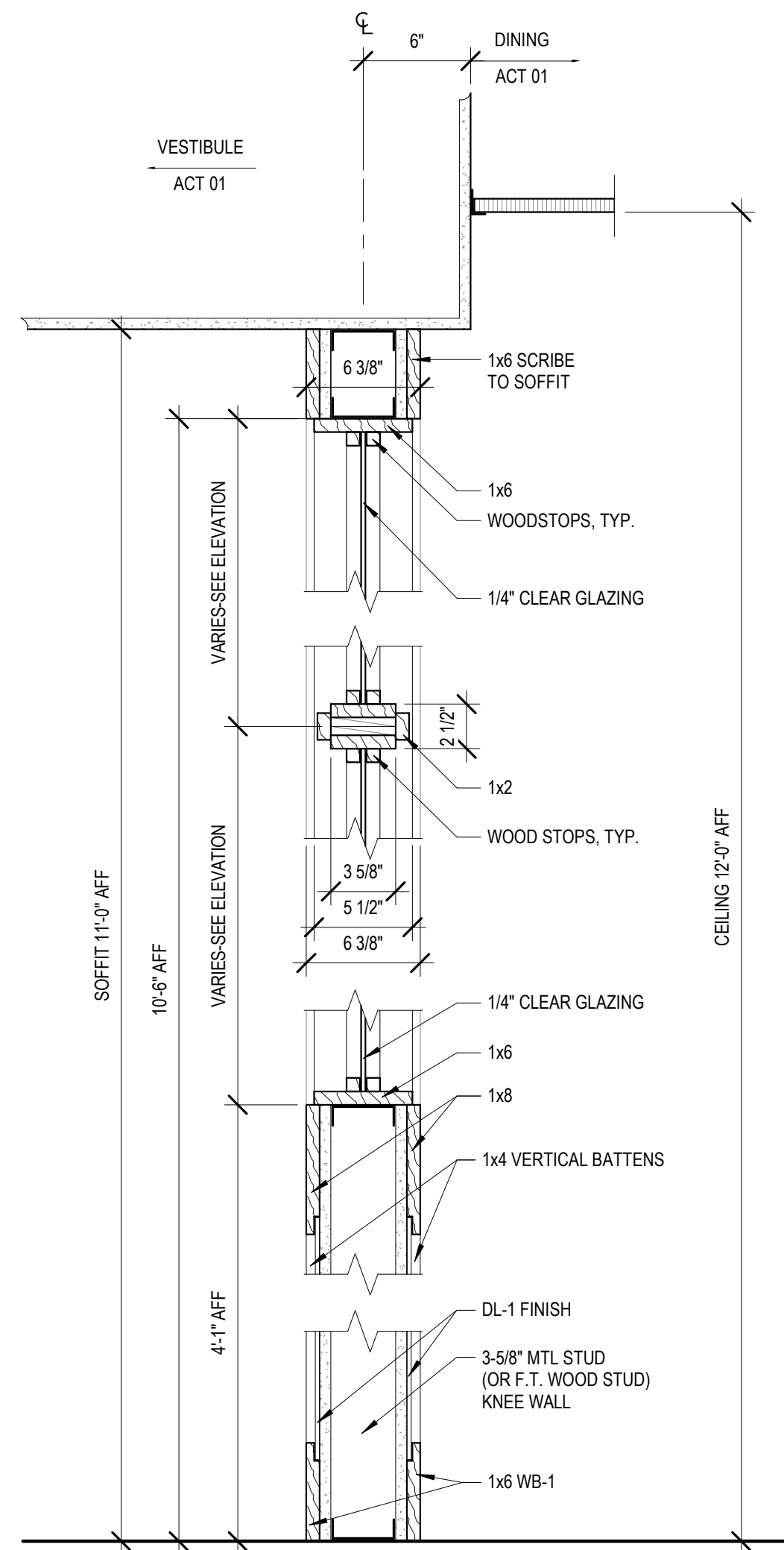
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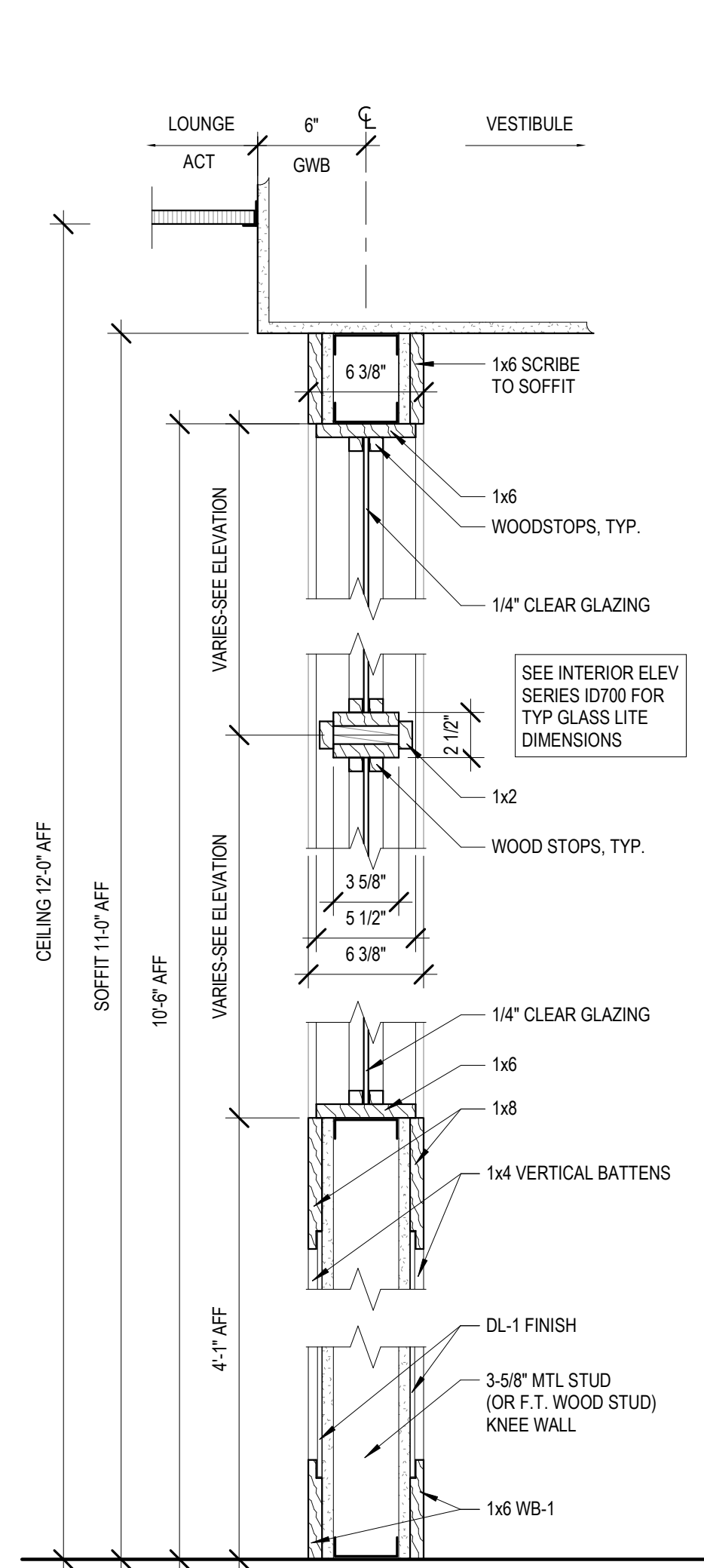
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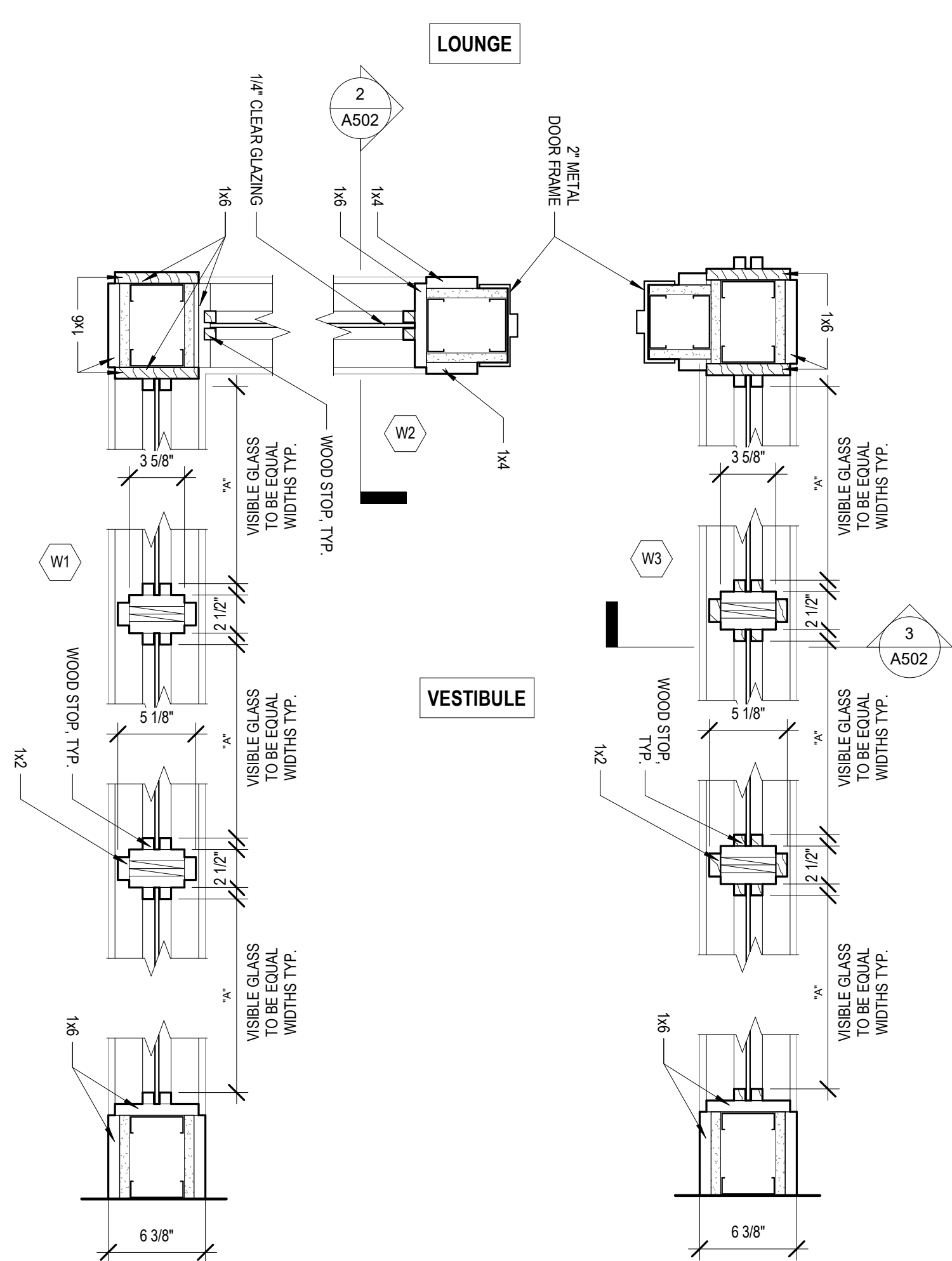
4 INT. GLAZED PARTITION & SOFFIT 3
1 1/2" = 1'-0"



3 INT. GLAZED PARTITION & SOFFIT 2
1 1/2" = 1'-0"



2 INT. GLAZED PARTITION & SOFFIT 1
1 1/2" = 1'-0"



1 GLAZING WALL DETAIL @ W1, W2, W3
1 1/2" = 1'-0"

ROOM FINISH LEGEND									
CEILING									
ITEM	DESCRIPTION	SPECIFICATION							
ACT-1 PUBLIC AREAS	ACT HOLD-DOWN CLIPS TO BE INSTALLED @ VESTIBULE	USG FROST PANEL, 2x2 EDGE-FL COLOR: TAUPE 107 USG-CENTRICITE EXT GRID, COLOR: TAUPE 107							
ACT-2 BACK OF HOUSE	ACT	USG SHEETROCK CLIMA PLUS 1270 GR09-ARMSTRONG PRELUDE XL 7300 15/16 OR KEM-LITE-GLASSBOARD CEILING PANEL 2x4 WHITE SMOOTH w/ SURFASAL							
WD-1 BACK BAR SOFFIT	1x WOOD -STAINED	MATCH SHERWIN WILLIAMS SW 3119 BURNISHED WALNUT							
WALL FINISHES									
ITEM	DESCRIPTION	SPECIFICATION							
VWC-1 LOUNGE, DINING	VINYL WALL COVERING	LAMARK WALLCOVERING TAILORED SILK L2-TS-13 REGENCY		ALT LAMARK WALLCOVERING LYRIC L2-LY-09 CABARET					
VWC-2 LOUNGE, DINING	VINYL WALL COVERING	LAMARK WALLCOVERING SOVELLE L2-NV-43 GRANITE							
VWC-3 HALL & VESTIBULE	VINYL WALL COVERING	LAMARK WALLCOVERING WIRED L2-W1-09 COPPER							
VWC-4 W ROOM	VINYL WALL COVERING	LAMARK WALLCOVERING CODE R2-CA-43 NETWORK							
VWC-5 M ROOM	VINYL WALL COVERING	LAMARK WALLCOVERING CODE R2-CA-28 VIRTUAL							
VWC-6 FOR WAINSCOT	VINYL WALL COVERING	LAMARK WALLCOVERING BELVEDERE LV-EL-03 PASHA							
VWC-7 FOR UPPER WALL	VINYL WALL COVERING	LAMARK WALLCOVERING CARTON R2-CA-17 CHAMPAGNE							
WTW-1 W ROOM	WALL TILE WAINSCOT	GROUT: 44 BRIGHT WHITE WHITER THAN	PORCELANOSA TILE WALL MACARE BLANCO GLOSS V14100011 13"x20" w/ SCHLUTER- RONDEC PRO 100 BW (PVC) CONTINUOUS @ TILE EDGE						
WTW-2 M ROOM	WALL TILE WAINSCOT	GROUT: 52 TOASTED ALMOND	DALTILE COLORBODY PORCELAIN KIDONA SLK P321 RICE PAPER 12"x24" w/ BULLNOSE, TRIM 3"x12"						
CWT-1 DIPPO KITCHEN, SERVICE	CERAMIC WALL TILE	GROUT: 17 MARBLE BEIGE	DALTILE RITTENHOUSE SQUARE MATTE ELEMENTAL TAN 0766 3"x6"		NOTE: SCHLUTER STRIP TO BE USED AT ALL OUTSIDE CORNERS & EDGES				
CWT-2 EXPO KITCHEN	CERAMIC WALL TILE	GROUT: 46 QUARRY RED	AMERICAN OLEAN WALL TILE BRIGHT Q074 CHILI PEPPER 6"x6"		NOTE: SCHLUTER STRIP TO BE USED AT ALL OUTSIDE CORNERS & EDGES				
CWT-4 KITCHEN	CERAMIC WALL TILE	GROUT: 90 LIGHT PEWTER	AMERICAN OLEAN WALL TILE BRIGHT 0025 ICE WHITE 3" x 6"						
CWT-5 WALL INT. WAINSCOT (NOT USED)	CERAMIC WALL TILE	GROUT: 90 LIGHT PEWTER	DALTILE IMAGICA VISION 095, 8" x 48"						
FRP-1 KITCHEN	FIBERGLASS REINFORCED PANELS	4x8 PANELS, STIPPLED WHITE CLASS-A							
FRP-2 BACK OF KNEW WALL	FIBER-REINFORCED PLASTIC	4x8 PANELS, STIPPLED BLACK CLASS-A							
PT-1 SOFFITS (FACE & UNDERSIDE)	PAINT	SHERWIN WILLIAMS SW 7549 STUDIO TAUPE SATIN FINISH							
PT-2 KITCHEN DOOR FRAMES	PAINT	SHERWIN WILLIAMS SW 7550 RESORT FAN SEMI-GLOSS							
PT-3 OFFICE WALLS	PAINT	SHERWIN WILLIAMS SW 7102 WHITE FLOUR SATIN FINISH							
PT-4 INTERIOR DOOR FRAMES (EXCLUDING KITCHEN)	PAINT	SHERWIN WILLIAMS SW 7075 SEAL-SKIN SEMI-GLOSS							
PT-5 ACT MATCH	PAINT	SHERWIN WILLIAMS SW 7549 STUDIO TAUPE FLAT FINISH							
PT-6 SOFFIT COVE	PAINT	CEILING WHITE							
WALL BASE									
ITEM	DESCRIPTION	SPECIFICATION							
WB-1	1x6 WOOD -STAINED	MATCH SHERWIN WILLIAMS SW 3119 BURNISHED WALNUT							
FT-1 SERVICE	PORCELAIN TILE	GROUT: 35 MOCHA	STONEPEAK PLANE COPPER PLANE-HONED-30"x30" CUT TO 4" (SEE ELEVATIONS)		GROUT COLORS BASED ON LATICRETE OPTIONS				
QT-1 BACK BAR	QUARRY TILE	GROUT: 35 MOCHA	METROPOLITAN CERAMICS QUARRYBASICS 108 CHESTNUT BROWN B&B						
QT-2 KITCHEN, WALKINS, STAFF	QUARRY TILE	GROUT: 35 MOCHA	METROPOLITAN CERAMICS QUARRYBASICS 107 BOULEVARD B&B						
VB-1 EQUIP PLATFORM	VINYL BASE	JOHNSONITE WALL BASE 86 FAIRN							
EPB-1 BACK BAR	6" EPOXY BASE	STONEHARD STONGLAD URSTONKOTE HT4 CHARCOAL							
EPB-2 B.O.H.	6" EPOXY BASE	STONEHARD STONGLAD URSTONKOTE HT4 MUSHROOM							
MISC FINISHES									
ITEM	DESCRIPTION	SPECIFICATION							
SSC-1 MAIN BAR TOP & BAR ISLAND TOP	SOLID SURFACE COUNTER	AVONITE K3-850 NEW CALDRON HIGH GLOSS POLISH							
SSC-2, SILLS & CAPS	SOLID SURFACE COUNTER	AVONITE, K3-845 GOLDMINE HIGH GLOSS POLISH							
SSC-3 SERVICE COUNTERS	SOLID SURFACE COUNTER	CORIAN CANYON							
SSC-4 W ROOM COUNTER	SOLID SURFACE COUNTER	CORIAN VENARO WHITE w/ WHITE UNDERMOUNT SINK BASINS, 3" BACKSPLASH							
SSC-5 M ROOM COUNTER	SOLID SURFACE COUNTER	CORIAN SAGEBRUSH w/ WHITE UNDERMOUNT SINK BASINS, 3" BACKSPLASH							
DL-1 WAINSCOT, BAR KNEE WALL	DECORATIVE LAMINATE	ADVANCED TECHNOLOGY MIRROR-EX STRUCTURES N562 ANTIQUE BRONZE							
GT-1 EXPO COUNTER	GRANITE	FIRST CLASS MARBLE & GRANITE, INC. GRANITE, POLISHED BLACK GALAXY, 1 1/4" THICKNESS, EASED EDGES							
EP-2 DISH ROOM WALLS TO 48" AFF	EPOXY WALL SYSTEM (TO BE CONFIRMED)	STONEHARD STONGLAD URSTONKOTE MUSHROOM							
PL-1 BACKBAR MILLWORK	PLASTIC LAMINATE	WILSONART 4846-60 MCCRORY ZEPHYR							
PL-2 SERVICE AREA MILLWORK	PLASTIC LAMINATE	WILSONART 4796-60 BURNISHED CHESTNUT							
PL-3 W ROOM TOILET PARTITIONS	PLASTIC LAMINATE	WILSONART 4878-38 FEWTER MESH							
PL-4 M ROOM TOILET PARTITIONS	PLASTIC LAMINATE	FORMICA P LAM 5212-58 WHEAT STRAND							
PL-5 SERVICE AREA SHELVES/BACKER BD	PLASTIC LAMINATE	WILSONART: 4861K-07 GOLD ALCHEMY [STANDARDS & BRACKETS] TITANIUM or ALUMINUM							
PL-6 OFFICE MILLWORK	PLASTIC LAMINATE	WILSONART: 4943-38 CLASSIC LINEN [STANDARDS & BRACKETS] WHITE							
WS-1 WOOD TRIM THROUGHOUT	TYPICAL WOOD STAIN	MATCH SHERWIN WILLIAMS SW 3119 BURNISHED WALNUT							
ML CAMPBELL PRODUCTS-WOOD (MAPLE) SAINED TO 153X *FIRST COAT SPRAY ON TONER, MICROTON W52 M802 DARK WALNUT, APPLIED WITH A "HEAVY SPRAY" *SECOND COAT WIPE ON STAIN, WOODSINGL II AMERICAN WALNUT, "SCUB" IN, THEN WIPE QUICKLY" *TOP COATS-ML CAMPBELL CLEAR LACQUER, SATIN, APPLIED AS NECESSARY									
FLOOR FINISHES									
ITEM	DESCRIPTION	SPECIFICATION							
CP-1 VESTIBULE	WALK-OFF MAT	J+J INVISION RUNWAY (7000) 1415VP PASS							
CP-2 LOUNGE FOR	CARPET	J+J FLOORING GROUP SMOULDER GRASS COMBUST - 12"x48" ASHLAR ORIENTATION							
FT-1	PORCELAIN TILE	GROUT: 35 MOCHA	STONEPEAK PLANE COPPER PLANE-HONED-30"x30"						
FT-2 FIELD MW TOILET	PORCELAIN TILE	GROUT: 35 MOCHA	CROSSVILLE NOTORIOUS NTR05 UNPOLISHED UPS 12x12						
FT-3 ACCENT W TOILET	PORCELAIN TILE	GROUT: 35 MOCHA	DALTILE VERANDA DECO D P513 3x3 CORNER		OR DECO P512 3x3 CORNER				
FT-4 ACCENT M TOILET	PORCELAIN TILE	GROUT: 35 MOCHA	DALTILE VERANDA DECO E P514 3x3 CORNER						
QT-1 BACK BAR	QUARRY TILE	GROUT: 35 MOCHA	METROPOLITAN CERAMICS QUARRYBASICS 108 CHESTNUT BROWN B&B						
QT-2 KITCHEN, WALKINS, STAFF	QUARRY TILE	GROUT: 35 MOCHA	METROPOLITAN CERAMICS QUARRYBASICS 107 BOULEVARD B&B						
SF-1 OFFICE	SHEET FLOORING	ARMSTRONG CONNECTION CORLON 8812 LIMESTONE							
EP-1 BACK BAR	EPOXY FLOORING	STONEHARD STONGLAD URSTONKOTE HT4 CHARCOAL							
EP-2 B.O.H.	EPOXY FLOORING & WALL SYSTEM	STONEHARD STONGLAD URSTONKOTE HT4 MUSHROOM							

DOOR SCHEDULE									
TAG	FROM	TO	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	HARDWARE	FRAME TYPE
01	EXTERIOR	VESTIBULE	3' - 6"	8' - 0"		STOREFRONT	AL/GL	8	STOREFRONT
02	VESTIBULE	LOUNGE	3' - 6"	8' - 0"	0' - 1 3/4"	A	WD/GL	1	HM
03	MAIN DINING	EXTERIOR	3' - 6"	8' - 0"		STOREFRONT	AL/GL	7	STOREFRONT
04	MAIN DINING	PRIVATE DINING	17' - 9"	8' - 0"		B	WD/GL		
05	SERVICE	OFFICE	2' - 8"	7' - 0"	0' - 1 3/4"	F	HM	2	HM
06	HALL	FAMILY TOILET	3' - 0"	7' - 0"	0' - 1 3/4"	D	WD/GL	3	HM
07	HALL	WOMEN'S TOILET	3' - 0"	7' - 0"	0' - 1 3/4"	D	WD/GL	3	HM
08	HALL	MEN'S TOILET	3' - 0"	7' - 0"	0' - 1 3/4"	D	WD/GL	3	HM
09	LOUNGE	KITCHEN	3' - 6"	7' - 0"	0' - 1"	C	MANUF.		

DOOR TYPES LEGEND		
	TYPE A WOOD/GLASS	
	TYPE B SLIDING DOOR CO. ROOM DIVIDERS (5) PANEL (ALL OPERABLE) (5) CHANNEL TRACK SYSTEM WALNUT FRAME, CLEAR GLASS, TRIO PANEL INSERT, FLUSH INDENT HANDLES, WHEEL LOCKS	
	TYPE C ELIASON SCP-3 DOUBLE-ACTING STAINLESS STEEL FINISH 20" ROUND WINDOW - CLEAR	
	TYPE D WOOD DOOR RIBBED FROSTED GLASS	
	TYPE E HOLLOW METAL DOOR (NOT USED)	
	TYPE F HOLLOW METAL DOOR 12" WINDOW - CLEAR	
	TYPE G HOLLOW METAL DOOR SOLID (NOT USED)	
	STOREFRONT TO MATCH EXISTING	

DOOR HARDWARE	
NOTES: -ALL WOOD DOORS TO BE FLUSH, SOLID CORE, STAIN GRADE U.N.O. FINISH TO BE WS-1 -ALL DOOR HARDWARE SHALL BE OF ACCESSIBLE TYPE.	
1. PASSAGE: PULL HANDLE - ROCKWOOD OVALTEK RM240 16", PUSH PLATE - RM1020, 1 1/2 PAIR HINGES, CLOSER, SILENCER, FINISH OF US32D- SATIN CHROMIUM PLATED. 2. OFFICE: (ALWAYS LOCKED FROM OUTSIDE) 1 1/2 PAIR HINGES, CYLINDER LOCK & LEVER HAND SET, WALLSTOP, FINISH OF US32D- SATIN CHROMIUM PLATED, CLOSER. 3. RESTROOMS: PULL HANDLE - ROCKWOOD OVALTEK RM2410 16", PUSH PLATE- RM1020 , 1 1/2 PAIR HINGES, CLOSER, SILENCER, FINISH OF US32D- SATIN CHROMIUM PLATED. 4. STORAGE: (ALWAYS LOCKED FROM OUTSIDE) 1 1/2 PAIR HINGES, CYLINDER LOCK & LEVER HAND SET, WALL STOP, FINISH OF US32D- SATIN CHROMIUM PLATED. 5. TOILET: (PRIVACY FUNCTION) 1 1/2 PAIR HINGES, CLOSER, CYLINDER LOCK & LEVER HAND SET, DOOR SILENCERS, WALL STOP, COAT HOOK FINISH OF US32D- SATIN CHROMIUM PLATED.	
EXISTING EXTERIOR DOORS: 6. EXTERIOR SERVICE DOOR: (ALWAYS LOCKED FROM EXT) DOOR BELL, PEEP HOLE, 1.5 PAIR BALL BEARING HINGES (STAINLESS STEEL), PANIC EGRESS HARDWARE, HEAVY-DUTY CLOSER (TOP JAMB MOUNTED) w/ HOLD-OPEN OPTION, WEATHER STRIPPING (NEOPRENE BULB TYPE - JAMB AND HEAD, NYLON BRUSH TYPE AT SILL), ALUMINUM THRESHOLD, CLOSER. 7. RESTAURANT PATIO DOOR: POWER OPERATOR KAWNEER 12" ARCHITECTS CLASSIC PULL HANDLE, INTERIOR HORIZONTAL MID-HEIGHT PUSH BAR, ADAMS RITE DEAD LATCH (W/ 'DOGGING' ACTION) AND LATCH PADDLE DEVICE, HEAVY-DUTY CLOSER (TOP JAMB MOUNTED) w/ HOLD-OPEN OPTION. 8. EXTERIOR RESTAURANT DOORS: KAWNEER 12" ARCHITECTS CLASSIC PULL HANDLE, INTERIOR HORIZONTAL MID-HEIGHT PUSH BAR, ADAMS RITE DEAD LATCH (W/ 'DOGGING' ACTION) AND LATCH PADDLE DEVICE, HEAVY-DUTY CLOSER (TOP JAMB MOUNTED) w/ HOLD-OPEN OPTION.	

NOTE:
EXISTING EXTERIOR STOREFRONT DOORS:
EXTERIOR DOOR POST-STOP, INCLUSION TO BE DETERMINED ON A SITE-SPECIFIC BASES

LEGEND/ SCHEDULE		WALL/ FLOOR TYPE DESIGNATION	
<div><div>IW-B4-8.0</div><div>DENOTES STUD SIZE (SEE SCHEDULE)</div><div>DENOTES HEIGHT OF WALL (SEE SCHEDULE)</div><div>DENOTES WALL/ FLOOR CONSTRUCTION TYPE (SEE SCHEDULE)</div><div>DENOTES WALL/ FLOOR DESIGNATION (SEE SCHEDULE)</div></div>		EW	EXTERIOR WALL
		IW	INTERIOR WALL
		DW	DEMISING WALL
		FC	FLOOR/ CEILING
		RC	ROOF/ CEILING
STUD SIZE SCHEDULE			
METAL STUDS		WOOD STUDS	
1	7/8" MTL CHANNEL	3/4" FURRING	
2	2-1/2" MTL STUDS	2x2 WOOD STUDS	
3	3-5/8" MTL STUDS	2x3 WOOD STUDS	
4	4" MTL STUDS	2x4 WOOD STUDS	
6	6" MTL STUDS	2x6 WOOD STUDS	
8	8" MTL STUDS	2x8 WOOD STUDS	
10	10" MTL STUDS	2x10 WOOD STUDS	
8.0	8 FEET - 0 INCHES		
CL	6" ABOVE CEILING		
UD	UNDERSIDE OF DECK		

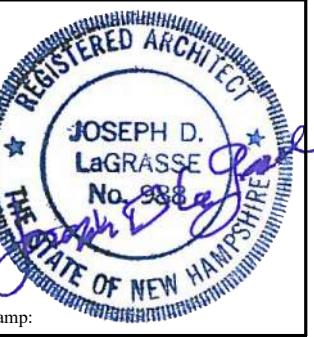
IW- INTERIOR WALL TYPES			
IW-A		TYPICAL INTERIOR WALL	
		-5/8" GWB -MTL STUDS @ 16" O.C. -5/8" GWB	
		RATING:	TEST # STC:
IW-B		TYPICAL INTERIOR WALL @ TILE	
		- 5/8" M.R. GWB - MTL STUDS @ 16" O.C. (BATT INSULATION @ TOILET ROOMS) - 5/8" M.R. GWB SEE FINISH PLAN FOR LOCATION & HEIGHT OF TILE WALL FINISH	
		RATING:	TEST # STC:
IW-C		TYPICAL LOW WALL	
		- 5/8" CDX PLYWOOD - MTL STUDS @ 16" O.C. - 5/8" CDX FT PLYWOOD	
		RATING:	TEST # STC:
IW-D		TYPICAL KITCHEN WALL (W/ TILE)	
		- MTL STUDS @ 16" O.C. EACH SIDE -(ABOVE) 5/8" MR GWB -(BELOW) 5/8" CEMENT BACKER BOARD BASE TO 24" AFF THROUGHOUT KITCHEN	
		RATING:	TEST # STC:
IW-E		KITCHEN WALL (W/ FRP)	
		- MTL STUDS @ 16" O.C. EACH SIDE -(ABOVE) 5/8" CDX FT PLYWOOD -(BELOW) 5/8" CEMENT BACKER BOARD BASE TO 24" AFF THROUGHOUT KITCHEN	
		RATING:	TEST # STC:
IW-F		KITCHEN WALL (COOKLINE WALL W/ FRP & STAINLESS)	
		- MTL STUDS @ 16" O.C. COOKSIDE: -STAINLESS STEEL -5/8" CEMENT BOARD -FIRE BLOCKING INSULATION PREP SIDE: -(ABOVE) 5/8" CDX FT PLYWOOD -(BELOW) 5/8" CEMENT BACKER BOARD BASE TO 24" AFF THROUGHOUT KITCHEN	
		RATING:	TEST # STC:
IW-G		DISHROOM WALL (FRP & EPOXY)	
		-EXISTING LOAD BEARING STUD WALL (ABOVE) -FRP -5/8" CDX FT PLYWOOD (BELOW) -EPOXY -5/8" CEMENT BOARD	
		RATING:	TEST # STC:

NOTES:

* ALL WOOD BLOCKING & MILLWORK STUDS / STRUCTURAL RIBS TO BE FIRE-TREATED WOOD.

FIRE-STOPPING:

MEP/SP CONTRACTORS ARE REQUIRED, IN COMPLIANCE W/ ALL APPLICABLE CODES, TO RESTORE THE FIRE RESISTENCE RATINGS OF FLOORS, WALLS, FLOOR/CEILING, ROOF/CEILING ASSEMBLIES OR FIRE-RESISTANCE-RATED DUCT ENCLOSURES WHEN AN OPENING IS MADE TO ACCOMMODATE PENETRATIONS FOR MECHANICAL, ELECTRICAL, PLUMBING, COMMUNICATION SYSTEMS AND VENTILATION DUCTS.



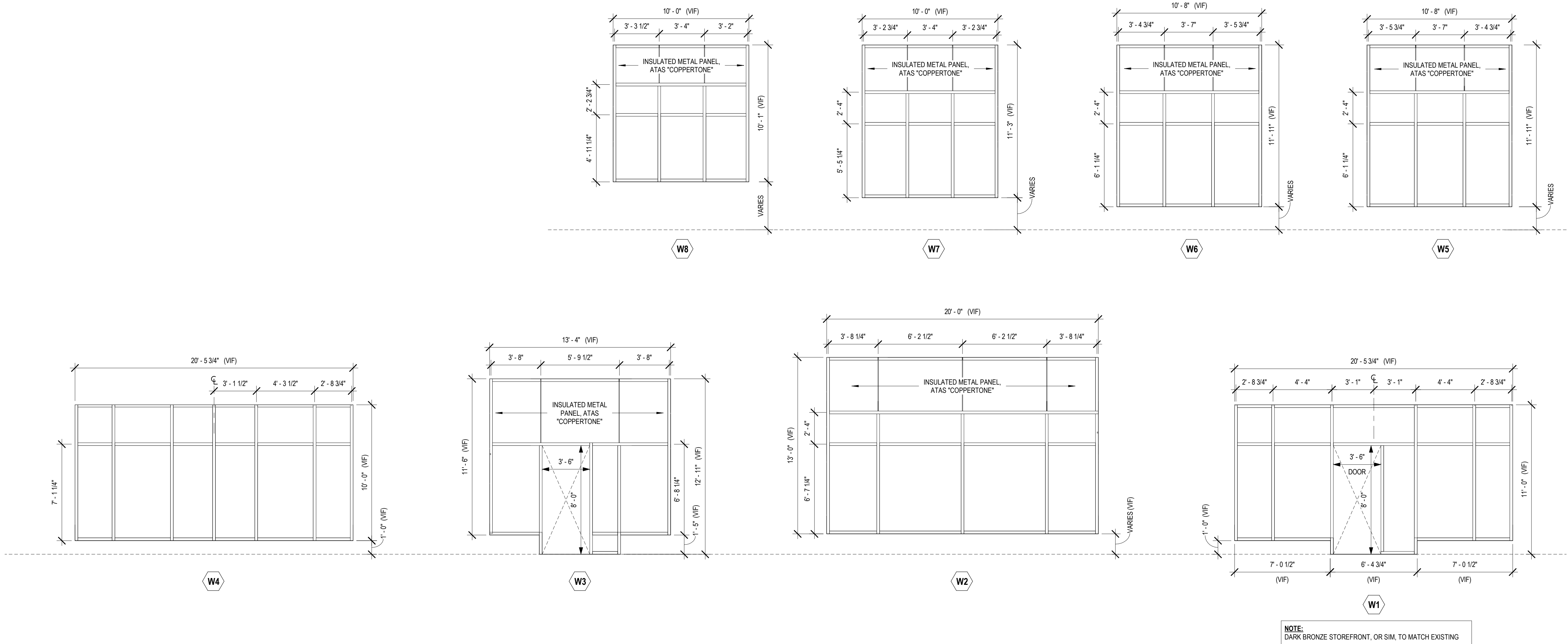
110 GRILL
PORTSMOUTH, NH
99 HANOVER STREET, PORTSMOUTH, NH

SCHEDULES & DIAGRAMS

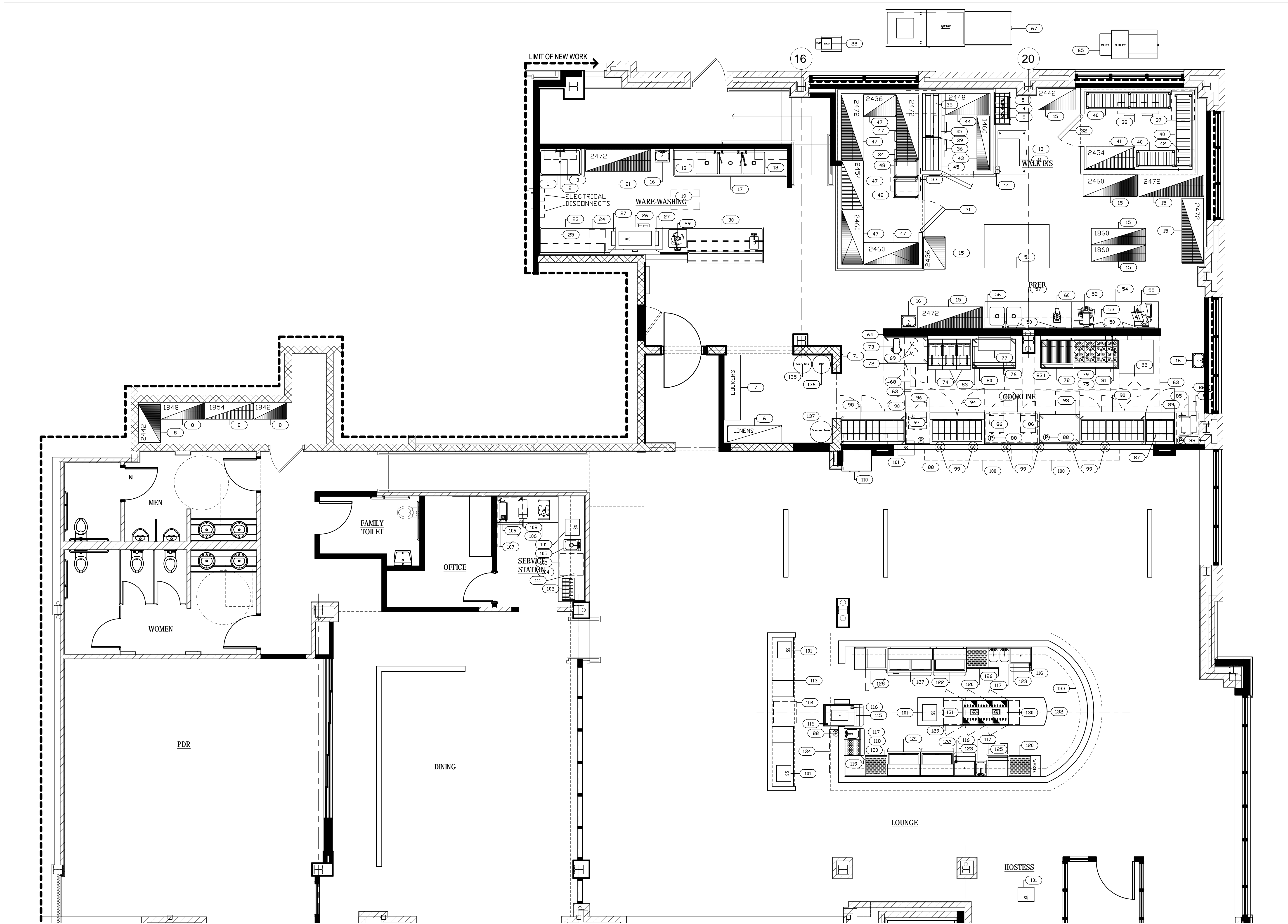
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ark	Date
Revisions	
e	06/17/2020
rk	1/4" = 1'-0"
No.	2196
et No.	

A601



FOODSERVICE EQUIPMENT PLAN



General Notes

1. These plans are provided for the purpose of indicating foodservice equipment locations and requirements only and are not to be construed by the general contractor or subcontractor as to relieve them from their responsibility of complying with all applicable local mechanical codes. Refer to architectural drawings, mechanical, and electrical drawings for the balance of work not in kitchen equipment contract.
2. It shall be the responsibility of the owner and/or his assigned coordinator to insure that the food service equipment contractor receives copies of all addendum and changes to architectural documents which are made prior to and during construction.
3. General Contractor shall provide the necessary wall backing for all wall mounted equipment (shelving, pot racks, ETC.), as indicated on foodservice equipment drawing.
4. 6" deep floor depression for walk-ins to be provided by the general contractor. Bottom of floor depression must be smooth and level (not rough).
5. Penetrations through ceilings, walls, and roof shall be made and sealed by general contractor.
6. Electrical contractor will do all rough ins + final connections. Furnish all trim, accessories, disconnects, switches, relays, etc. as required.
7. Plumbing contractor will do all rough ins + final connections. Furnish all trim, accessories, valves, pressure regulators, p-traps, grease traps, backflow devices, etc.
8. Kitchen Equipment Contractor will furnish + install the dishwasher fan + roof curb, main cooking hood, stainless steel wall panels, exhaust fan + roof curb, supply fan/heater + roof curb and electrical control panel for fans.
9. Kitchen Equipment Contractor will furnish + install kitchen exhaust grease duct, associated make up air duct, and dishwasher exhaust duct.

1.	Layout Changes	5/28
No.	Revision/Issue	Date

United Restaurant Equipment Co., Inc.
1 Executive Park Drive
North Billerica, MA 01862
Tel: 978-439-5500
Fax: 978-262-9999

Project:
110 Grill Portsmouth
103 Hanover St,
Portsmouth, NH 03801

Project 110 Portsmouth	Sheet
Issue Date 05/06/2020	FS-1
Scale 1/4" = 1'-0"	

FOODSERVICE EQUIPMENT PLAN

EQUIPMENT			PLUMBING					ELECTRICAL					Equipment Remarks		
ItemNo	Quantity	Category	Cold Water (in)	Hot Water (in)	Indirect Waste Size	Direct Waste Size	Gas Size (in)	Gas MBTU	Voltage	Phase	Amps	EC HEIGHT AFF		ConnectionType	NEMA
1	1	MOP SINK			VERIFY										BY OTHERS
2	1	MOP SINK FAUCET	1/2"	1/2"											G.C TO PROVIDE WALL BLOCKING + HANG
3	1	CHEM SHELF													
4	1	SODA BAG 'N BOX RACK													
5	2	SODA CARBONATOR	1/2"						115	1	4	72"	CORD & PLUG	5-15P	BY OTHERS
6	1	LINEN STORAGE													BY OTHERS
7	1	LOCKERS													BY OTHERS
8	LOT	SHELVING /LIQUOR STORAGE													
10	1	SPARE NUMBER													
11	1	ICE MAKER	3/8"	1/2"					208	1	14	76"	DIRECT		PLUMB THROUGH #14 FILTER
13	1	ICE BIN FOR ICE MACHINES			3/4"										
14	1	WATER FILTER FOR ICE MAKER	3/8"												BY OTHERS
15	LOT	DRY STORAGE													
16	3	HAND SINK W/ SPLASH GUARDS	1/2"	1/2"		1-1/2"									
17	1	3 COMPARTMENT SINK	(2) 1/2"	(2) 1/2"		(3) 1-1/2"									
18	2	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
19	1	GREASE TRAP				*									P.E. TO SIZE AND LOCATE. PROVIDED BY P.C.
20	1	SPARE NUMBER													
21	LOT	DISHROOM SHELVING													
23	1	CLEAN DISHTABLE													
24	1	BOOSTER HEATER		3/4"					208	3	125	12"	DIRECT		BY OTHERS.
25	1	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
26	1	DISHWASHER		3/4"	1-1/2"				208	3	49	60"	DIRECT		BY OTHERS - VERIFY SPECS. PLUMB THROUGH BOOSTER E-C TO PROVIDE AND INSTALL RELAY
27	2	VENT RISERS FOR DISHWASHER													
28	1	EXHAUST FAN FOR DISHWASHER (ROOF)							115	1	7	VIF	DIRECT		
29	1	DISPOSER	1/2"			2"			208	3	7	24"	DIRECT		E.C. TO WIRE DISPOSER + CONTROLS
30	1	SOILED DISHTABLE	(2) 1/2"	(2) 1/2"	*	1-1/2"									WASTE PRE-RINSE SINK THROUGH DISPOSER WASTE DUMP SINK THROUGH GREASE TRAP G.C. TO PROVIDE WALL BLOCKING
31	1	KEG COOLER							115	1	4	84"	DIRECT		
32	1	WALK-IN COOLER / FREEZER COMBO							115	1	4	84"	DIRECT		
33	1	KEG REFRIGERATOR CONDENSER (VIF)							208	3	8	VIF	DIRECT		
34	1	KEG REFRIGERATOR BLOWER COIL			3/4"				115	1	2	84"	DIRECT		P.C. TO PLUMB BLOWER DRAIN TO FLOOR DRAIN
35	1	FREEZER CONDENSER (VIF)							208	3	10	VIF"	DIRECT		
36	1	FREEZER BLOWER COIL			3/4"				208	1	10	84"	DIRECT		E.C. WIRE THROUGH DEFROST TIMER. P.C. TO PLUMB BLOWER DRAIN TO FLOOR DRAIN VERIFY FINAL LOCATION
37	1	REFRIGERATOR CONDENSER (VIF)							208	3	8	VIF"	DIRECT		
38	1	REFRIGERATOR BLOWER COIL			3/4"				115	1	2	84"	DIRECT		P.C. TO PLUMB BLOWER DRAIN TO FLOOR DRAIN
39	1	HEAT TAPE							115	1	4	72"	CORD & PLUG	5-15P	
40	3	KEG RACKS													
41	1	WIRE SHELVING													
42	1	DRAUGHT BEER SYSTEM							208	1	15	100"	DIRECT		
43	1	WIRE SHELVING													
44	1	WIRE SHELVING													
45	1	DUNNAGE RACK													
46	1	SPARE NUMBER													
47	LOT	COOLER SHELVING													
48	2	PAN RACK													
50	6	UTENSIL RACKS													G.C TO PROVIDE WALL BLOCKING + HANG
51	1	WORK TABLE													
52	1	MIXER							115	1	6	48"	CORD & PLUG	5-15P	
53	1	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
54	1	WORK TABLE													
55	1	FOOD SLICER							115	1	2	48"	CORD & PLUG	5-15P	
56	1	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
57	1	WORK TABLE W/ PREP SINKS	1/2"	1/2"	(2) 1-1/2"										
60	1	FOOD PROCESSOR							115	1	7	48"	CORD & PLUG	5-15P	
63	1	EXHAUST HOOD							115	1	5	100"	DIRECT		WIRE THROUGH #68 CONTROL PANEL.
64	1	STAINLESS STEEL WALL PANELS													
65	1	EXHAUST FAN (ROOF)							208	3	16	VIF	DIRECT		WIRE THROUGH #68 CONTROL PANEL.
67	1	SUPPLY FAN/HEATER (ROOF)					1"	325	208	3	10	VIF	DIRECT		WIRE THROUGH #68 CONTROL PANEL. VERIFY LOCATION SEE WIRING DIAGRAM. PROVIDE INTERNET CONNECTION.
68	1	CONTROL PANEL					*		*			100"			P.C. TO INSTALL GAS VALVE PROVIDED BY UNITED. E.C. TIE IN TO FIRE ALARM
69	1	FIRE SUPPRESSION SYSTEM				*									SUPPLIED BY P.C. PER CODE. E.C. TO INTERWIRE COMPONENTS
70	1	CARBON MONOXIDE DETECTION SYSTEM (NOT SHOWN)					*		*			VIF			

EQUIPMENT			PLUMBING					ELECTRICAL					Equipment Remarks		
Item No	Quantity	Category	Cold Water (in)	Hot Water (in)	Indirect Waste Size	Direct Waste Size	Gas Size(in)	Gas KBTU	Voltage	Phase	Amps	EC HEIGHT AFF		ConnectionType	NEMA
71	1	ROOM TEMPERATURE SENSOR							*			60"	DIRECT		WIRE THROUGH #68 CONTROL PANEL
72	1	WORKTOP FREEZER							115	1	7	24"	CORD & PLUG	5-15P	
73	1	MIXER KITCHEN AID							115	1	4	48"	CORD & PLUG	5-15P	BY OTHERS
74	1	FRYER BATTERY, GAS					1"	240	115	1	7+6	24"	CORD & PLUG	5-15P	UNITED TO SUPPLY GAS HOSE KIT. 2 115V CONNECTION. 7A FILTER + 6A CONTROLS. SHUNT AS REQUIRED
75	1	EQUIPMENT STAND, REFRIGERATED							115	1	11	24"	CORD & PLUG	5-15P	SHUNT AS REQUIRED
76	1	GRIDDLE				3/4"	120								UNITED TO SUPPLY GAS HOSE KIT
77	1	CHEESEMELTER, ELECTRIC							208	1	17	63"	DIRECT		SHUNT AS REQUIRED.
78	1	CHARBROILER				3/4"	120								UNITED TO SUPPLY GAS HOSE KIT
79	1	HOTPLATE				3/4"	240								UNITED TO SUPPLY GAS HOSE KIT
80	1	EQUIPMENT STAND, REFRIGERATED							115	1	6	24"	CORD & PLUG	5-15P	SHUNT AS REQUIRED
81	1	POT / KETTLE FILLER FAUCET	1/2"												
82	2	CONVECTION OVEN				3/4	45		115	1	8	38"	CORD & PLUG	5-15P	SHUNT AS REQUIRED. UNITED TO SUPPLY GAS HOSE KIT
83	1	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
83.1	1	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
84	1	WORK TABLE													
85	1	COUNTERTOP WARMER							115	1	10	48"	CORD & PLUG	5-15P	
86	3	MICROWAVE OVEN							208	1	17	24"	CORD & PLUG	6-20P	
87	1	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
88	5	TICKET PRINTER							115	1	2	24"	CORD & PLUG	5-15P	
89	1	MEGA TOP SANDWICH / SALAD PREP REF							115	1	4	24"	CORD & PLUG	5-15P	
90	2	MEGA TOP SANDWICH / SALAD PREP REF							115	1	6	24"	CORD & PLUG	5-15P	
91	1	SPARE NUMBER													
92	1	WORK TABLE													
93	1	REFRIGERATED WORK TOP							115	1	3	24"	CORD & PLUG	5-15P	
94	1	MEGA TOP SANDWICH PREPREF							115	1	6	24"	CORD & PLUG	5-15P	
95	1	SPARE NUMBER													
96	1	WORK TABLE													
97	1	MICROWAVE OVEN							115	1	18	24"	CORD & PLUG	5-20P	
98	1	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
99	6	HEAT LAMPS							115	1	3	96"	DIRECT		UNITED TO SUPPLY LAMPS + 2 EA. 8' TRACKS /W CONNECTOR 1 LIVE END
100	2	DISPLAY SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
101	6	POINT OF SALE SYSTEM							115	1	4	48"	CORD & PLUG	5-15P	DATA+POWER
102	1	SODA DISPENSER			3/4"				115	1	3	VIF	CORD & PLUG	5-15P	BY OTHERS
103	2	MILLWORK COUNTER													
104	3	GLASS DOLLY													BY OTHERS
105	2	DROP-IN SINK	1/2"	1/2"		1-1/2"									
106	1	ESPRESSO MACHINE	1/4"		1/2"				115	1	15	48"	CORD & PLUG	5-15P	BY OTHERS. FILTERED WATER. VERIFY REQUIREMENTS.
107	1	COFFEE BREWER	1/4"						120/ 220	1	15	48"	CORD & PLUG	5-15P	BY OTHERS. FILTERED WATER. VERIFY REQUIREMENTS.
108	1	ICED TEA BREWER	1/4"						115	1	14	48"	CORD & PLUG	5-15P	BY OTHERS. FILTERED WATER. VERIFY REQUIREMENTS.
109	1	UNDERCOUNTER REFRIGERATOR							115	1	2	24"	CORD & PLUG	5-15P	
110	1	BUILT-IN WARMING DRAWER							115	1	8	24"	CORD & PLUG	5-15P	
111	2	MILLWORK WALL SHELVES													BY OTHERS
112	1	SPARE NUMBER													
113	1	MILLWORK COUNTER													BY OTHERS
115	1	PASS-THRU ICE BIN			1/2"										
116	4	SODA GUN													BY OTHERS
117	3	DUMP SINK W/ SPLASH GUARDS	1/2"	1/2"	1-1/2"										
118	1	DRAINBOARD			1"										
119	1	CORNER ANGLE FILLER													
120	3	GLASS RACK			1"										
121	1	RED WINE COOLER							115	1	5	24"	CORD & PLUG	5-15P	
122	2	GLASS CHILLER							115	1	4	24"	CORD & PLUG	5-15P	
123	2	ICE BIN			1/2"										
124	1	SPARE NUMBER													
125	1	GLASSWASHER		1/2"	2"				115	1	16	24"	CORD & PLUG	5-20P	BY OTHERS
126	1	HAND SINK	1/2"	1/2"		1-1/2"									
127	1	BOTTLE COOLER							115	1	9	24"	CORD & PLUG	5-15P	
128	1	BACK BAR COOLER							115	1	4	24"	CORD & PLUG	5-15P	
129	1	ISLAND COOLER							115	1	7	24"	CORD & PLUG	5-15P	
130	1	BEER TOWER HEAD													
131	1	DRAIN TROUGH FOR DRAUGHT BEER			(2) 3/4"										P.C TO INSTALL DRAIN
132	1	MILLWORK BAR ISLAND													BY OTHERS
133	1	MILLWORK BAR													BY OTHERS
134	2	WALL SHELF													G.C TO PROVIDE WALL BLOCKING + HANG
135	1	BEER GAS							VERIFY						BY OTHERS VERIFY
136	1	CO2							VERIFY						BY OTHERS VERIFY
137	1	GREASE TANK							VERIFY						BY OTHERS VERIFY. P.C PROVIDE 3/4" STEEL LINE TO FRYERS

TRIFAB® VG (VERSAGLAZE®)
TRIFAB® VG 450, 451 & 451T (THERMAL) FRAMING SYSTEMS &
TRIFAB® 451UT (ULTRA THERMAL) FRAMING SYSTEM



Design + Performance

Versatility with Unmatched Fabrication Flexibility



Geisinger Professional Building
Jenkins Township, Pennsylvania
ARCHITECT
Mericle Commercial Real Estate Services
Wilkes-Barre, Pennsylvania
GLAZING CONTRACTOR
Sterling Glass, Inc., Scranton, Pennsylvania
PHOTOGRAPHER
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Trifab® VersaGlaze® is built on the proven and successful Trifab® platform – with all the versatility its name implies. There are enough framing system choices, fabrication methods, design options and performance levels to please the most discerning building owner, architect and installer. The 4.5" depth Trifab® VersaGlaze® Framing System family is available with non-thermal, thermal and ultra-thermal performance levels. The ultra-thermal Trifab® 451UT Framing System, is designed for the most demanding thermal performance and employs a dual Isolock® thermal break.

AESTHETICS

Trifab® VersaGlaze® Framing Systems offer designers a choice of front-, center-, back- or multi-plane glass applications. Structural silicone

glazing (SSG) and weatherseal glazing options further expand designers' choices, allowing for a greater range of possibilities for specific project requirements and architectural styles. All systems have a 4-1/2" frame depth; Trifab® VersaGlaze® 450 has 1-3/4" sightlines, while Trifab® VersaGlaze® 451/451T and Trifab® 451UT have 2" sightlines.

With seamless incorporation of Kawneer entrances or windows, including GLASSvent® visually frameless ventilators, Trifab® framing can be used on almost any project. These framing systems can also be packaged with Kawneer curtain walls and overhead glazing, thereby providing a full range of proven, and tested, quality products for the owner, architect and installer from a single-source supplier.

ECONOMY

Trifab® VersaGlaze® 450/451/451T/451UT Framing Systems offer a variety of fabrication choices to suit your project:

- **Screw Spline** – for economical continuous runs utilizing two-piece vertical members that provide the option to pre-assemble units with controlled shop labor costs and smaller field crews for handling and installation. (available for all systems)
- **Shear Block** – for punched openings or continuous runs using tubular moldings with shear block clips that provide tight joints for transporting large pre-assembled multi-lite units. (available for 450/451/451T systems)
- **Stick** – for fast, easy field fabrication. Field measurements and material cuts can be done when metal is on the jobsite. (available for 450/451/451T systems)
- **Pre-glazed** – The combination of screw spline construction with pre-glazing in the shop accelerates installation and reduces field labor time while minimizing disruption to the surrounding area or existing tenants. Making it an exceptional choice for new or retrofit applications, particularly in urban areas or where space is limited. (available for 451/451T/451UT framing)



Brighton Landing
Cambridge, Massachusetts
ARCHITECT
ADD Inc., Cambridge, Massachusetts
GLAZING CONTRACTOR
Ipswich Bay Glass Company, Inc., Rowley, Massachusetts
PHOTOGRAPHER
© Gordon Schenck, Jr.

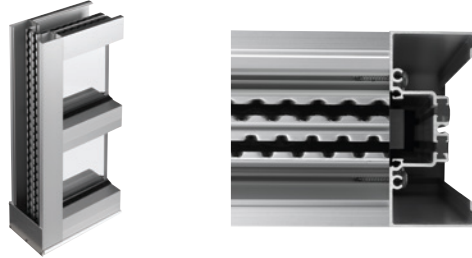
All systems can be flush glazed from either the inside or outside. The weatherseal option provides an alternative to SSG vertical mullions for Trifab® VersaGlaze® 450/451/451T. This ABS/ASA rigid polymer extrusion allows complete inside glazing and creates a flush glass appearance on the building exterior without the added labor of scaffolding or swing stages. Additionally, high-performance flashing options are engineered to eliminate perimeter sill fasteners and associated blind seals.

FOR THE FINISHING TOUCH

Architectural Class I anodized aluminum and painted finishes in fluoropolymer (AAMA 2605) and solvent-free powder coatings (AAMA 2604) offer a variety of color choices.

PERFORMANCE

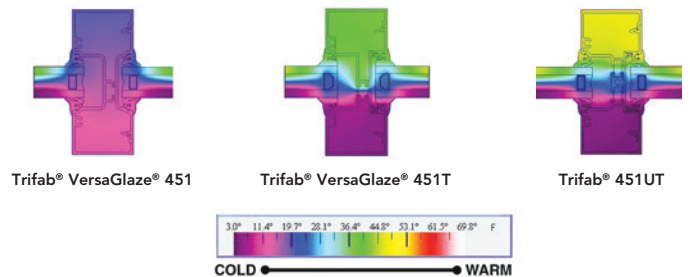
Kawneer's Isolock® thermal break technology creates a composite section, prevents dry shrinkage and is available on Trifab® VersaGlaze® 451T. For even greater thermal performance, a dual Isolock® thermal break is used on Trifab® 451UT.



Trifab® 451UT uses a dual Isolock® thermal break (right) and features a new high-performance sill design, which incorporates a screw-applied end dam (left), ensuring positive engagement and tight joints between the sill flashing and end dam.

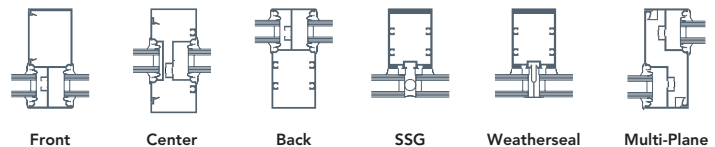
U-factor, CRF values and STC ratings for Trifab® framing systems vary depending upon the glass plane application. Project-specific U-factors can be determined for each individual project. (See the Kawneer Architectural Manual or Kawneer.com for additional information.)

Thermal simulations showing temperature variations from exterior/cold side to interior/warm side.



PERFORMANCE TEST STANDARDS

Air Infiltration	ASTM E283
Water	AAMA 501, ASTM E331
Structural	ASTM E330
Thermal	AAMA 1503
Thermal Break	AAMA 505, AAMA TIR-A8
Acoustical	AAMA 1801, ASTM E1425



Features

- Trifab® VG 451/451T is 4-1/2" (114.3) deep with a 2" (50.8) sightline
- Front, Center, Back or Multi-Plane glass applications
- Flush glazed from either the inside or outside
- Screw Spline, Shear Block, Stick or Continuous Head and Sill fabrication
- Screw Spline Pre-Glazed option
- SSG / Weatherseal option
- IsoLock® lanced and debridged thermal break option with Trifab® VG 451T
- Infill options up to 1-1/8" (28.6) thickness
- Permanodic® anodized finishes in seven choices
- Painted finishes in standard and custom choices

Optional Features

- Acoustical rating per AAMA 1801 and ASTM E 1425
- Project specific U-factors (See Thermal Charts)
- Integrates with Versoleil® SunShade Outrigger System and Horizontal Single Blade System
- Profit\$Maker® Plus die sets available

Product Applications

- Storefront, Ribbon Window, Punched Openings or Pre-Glazed
- Single-span
- Integrated entrance framing allowing Kawneer standard entrances or other specialty entrances to be incorporated
- Kawneer windows or GLASSvent® Windows for Storefront Framing are easily incorporated

For specific product applications,
consult your Kawneer representative.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
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Metric (SI) conversion figures are included throughout these details for reference. Numbers in parentheses () are millimeters unless otherwise noted.

The following metric (SI) units are found in these details:

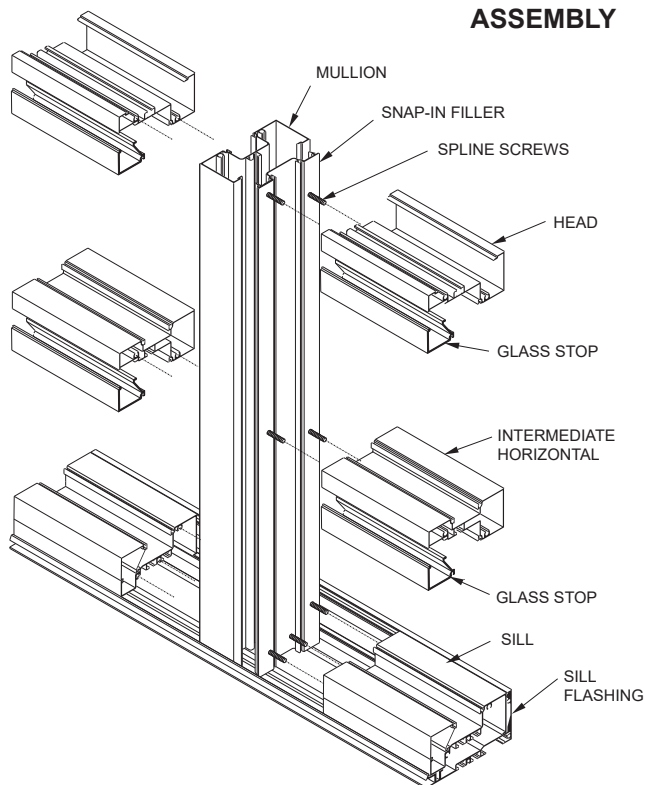
- m – meter
- cm – centimeter
- mm – millimeter
- s – second
- Pa – pascal
- MPa – megapascal

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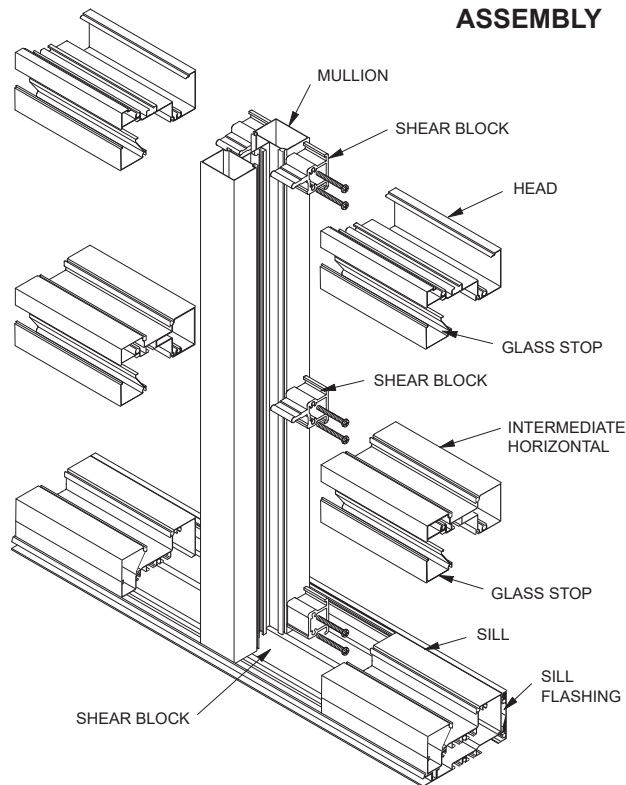
The split vertical in the **Screw Spline** system allows a frame to be installed from unitized assemblies. Screws are driven through the back of the verticals into splines extruded in the horizontal framing members. The individual units are then snapped together to form a complete frame.

SCREW SPLINE ASSEMBLY

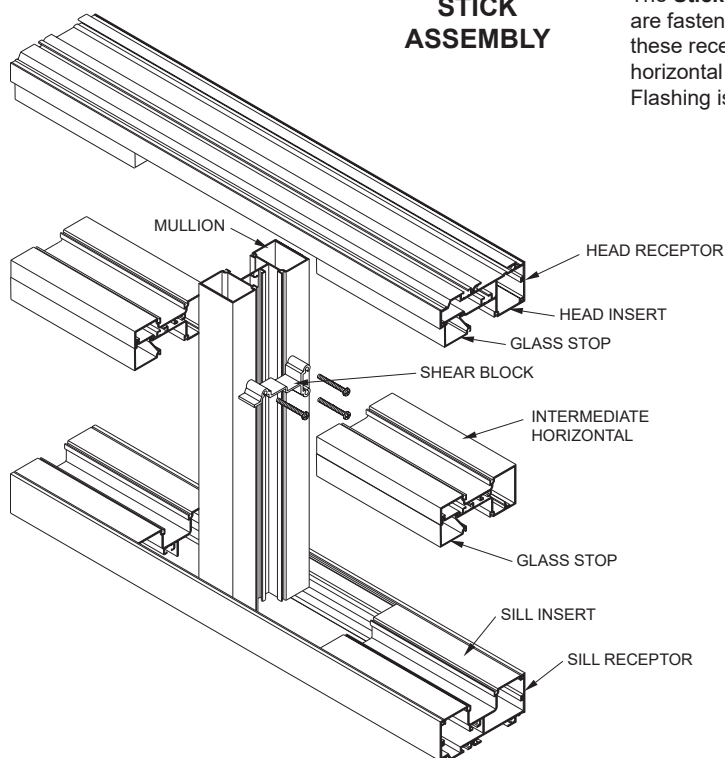


The **Shear Block** system of fabrication allows a frame to be pre-assembled as a single unit. Horizontals are attached to the verticals with shear blocks.

SHEAR BLOCK ASSEMBLY



STICK ASSEMBLY



The **Stick** system allows on-site construction. Head and sill receptors are fastened to the surround. Vertical mullions are then installed in these receptors and are held in place by snap-in inserts. Intermediate horizontal members are attached to the verticals with shear blocks. Flashing is not required.

NOTE:

If the end reaction of the mullion (mullion spacing (ft.) times height (ft.) times specified wind load (psf) divided by two) is more than 500 lbs., the optional mullion anchors must be used. (See page 16)

BASIC FRAMING DETAILS

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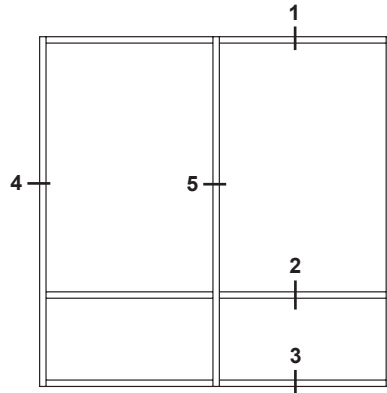
8225TL THERMAL WINDOW DETAILS.....25

LARGE MISSILE IMPACT 26-28

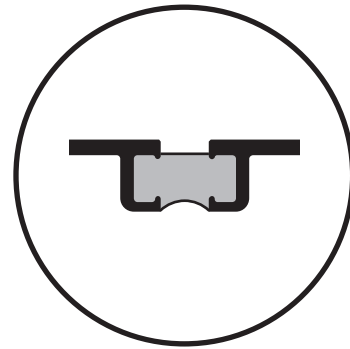
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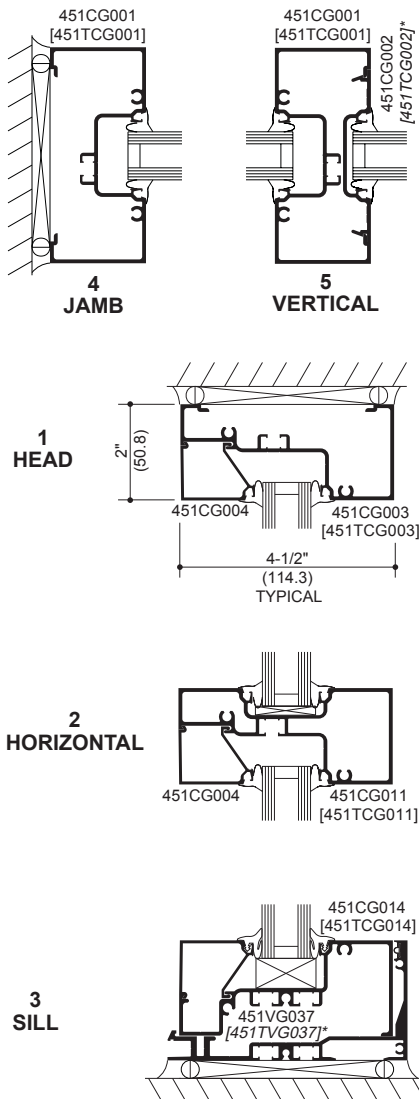


ELEVATION IS NUMBER KEYED TO DETAILS



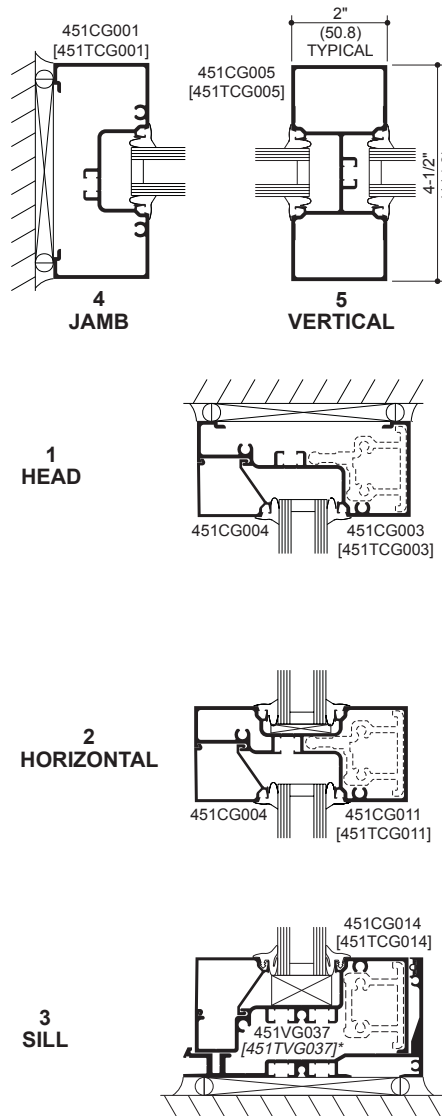
NUMBERS IN BRACKETS ARE THERMALLY BROKEN MEMBERS

SCREW SPLINE



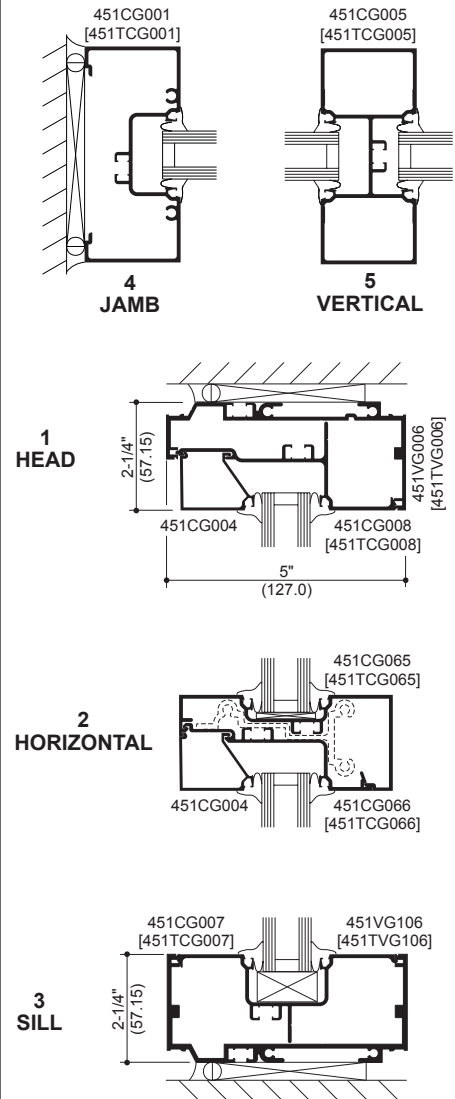
* HP Sill Flashing shown with optional gasket.

SHEAR BLOCK



* HP Sill Flashing shown with optional gasket.

STICK

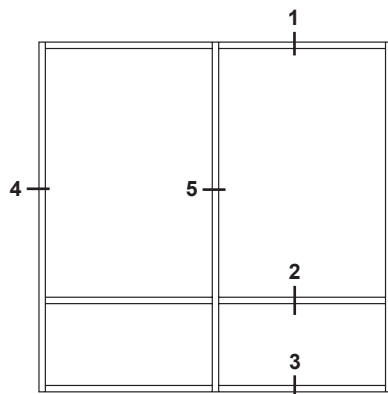


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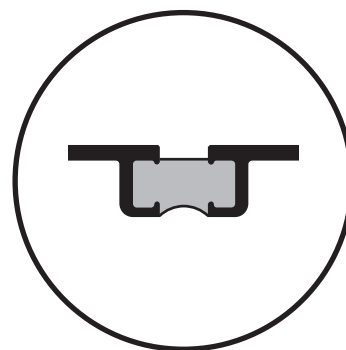
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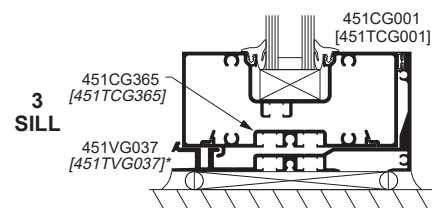
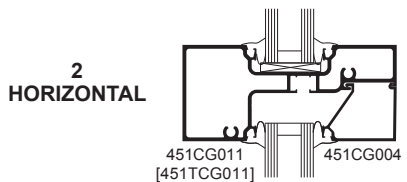
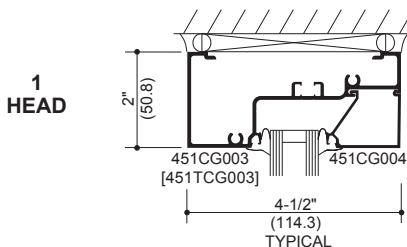
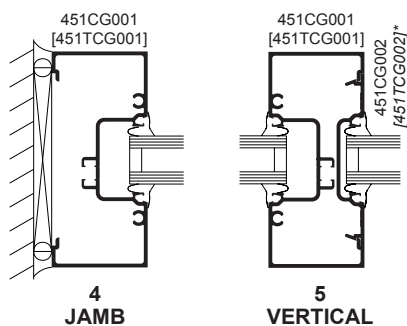


ELEVATION IS NUMBER KEYED TO DETAILS



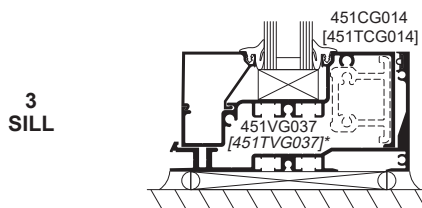
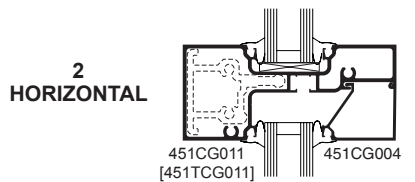
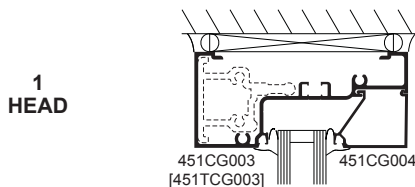
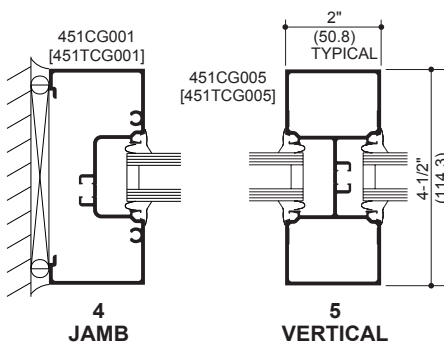
NUMBERS IN BRACKETS ARE THERMALLY BROKEN MEMBERS

SCREW SPLINE



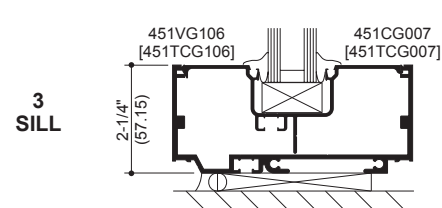
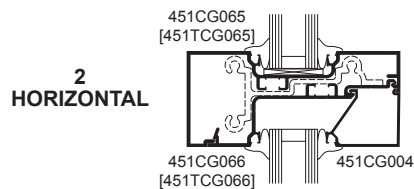
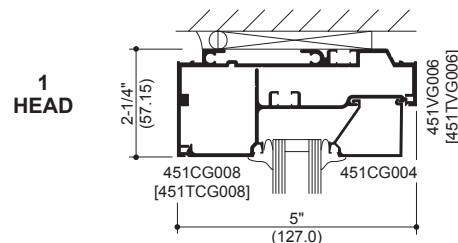
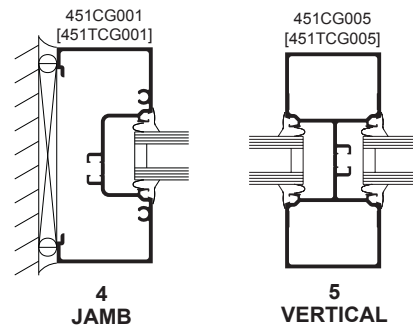
* HP Sill Flashing shown with optional gasket.

SHEAR BLOCK

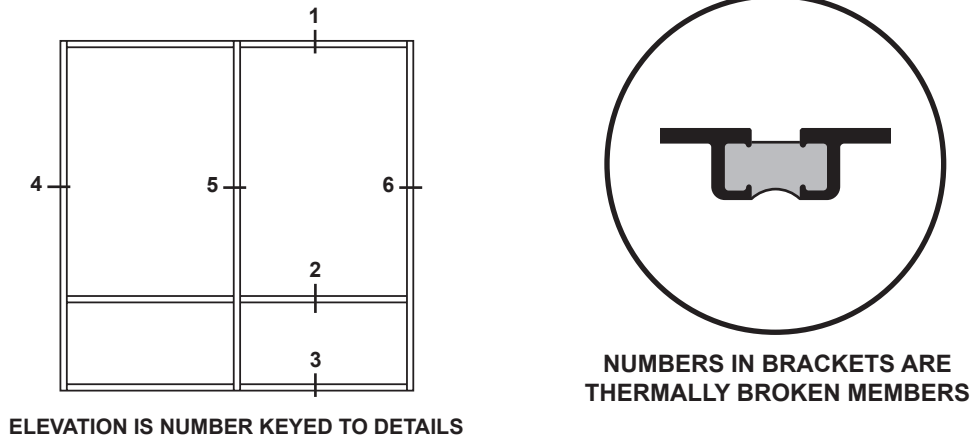


* HP Sill Flashing shown with optional gasket.

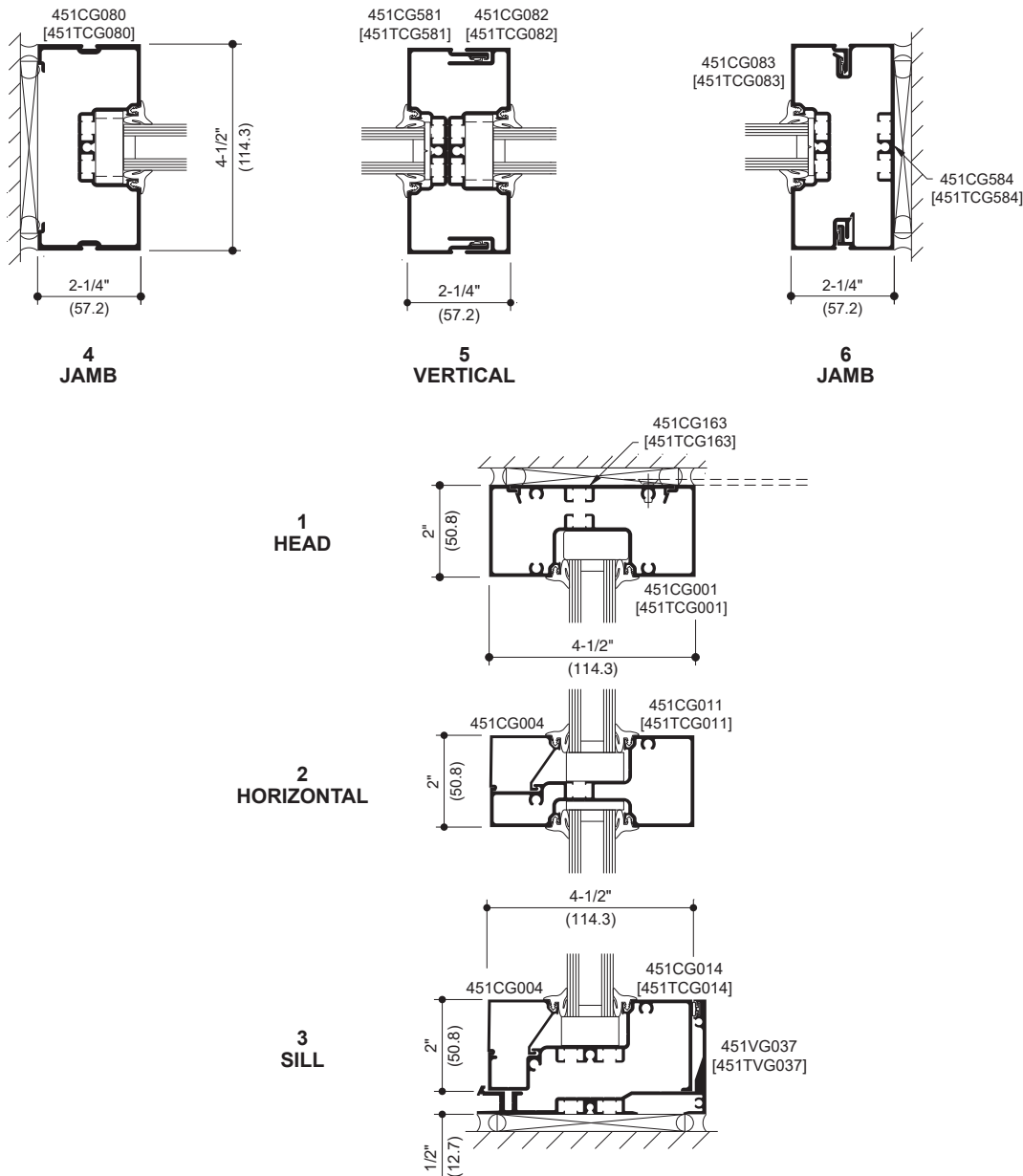
STICK



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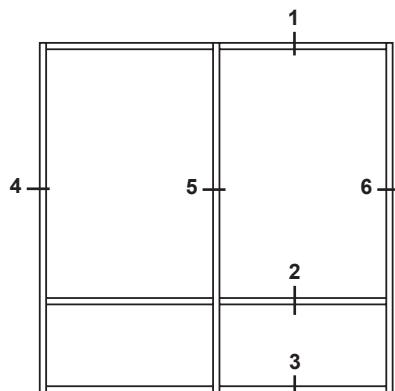


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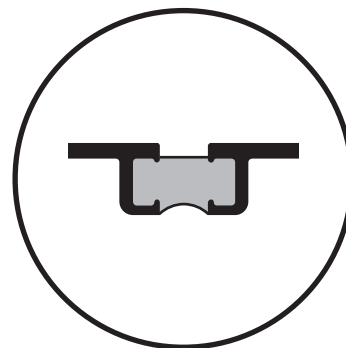


ADMC040EN

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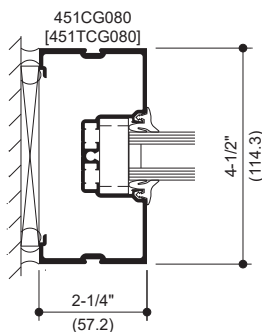


ELEVATION IS NUMBER KEYED TO DETAILS

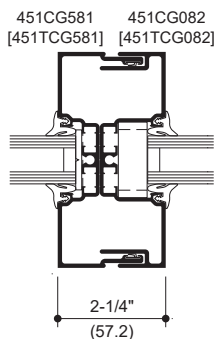


NUMBERS IN BRACKETS ARE THERMALLY BROKEN MEMBERS

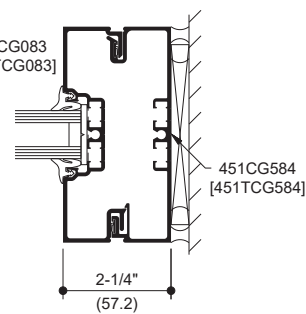
SCREW SPLINE



4
JAMB

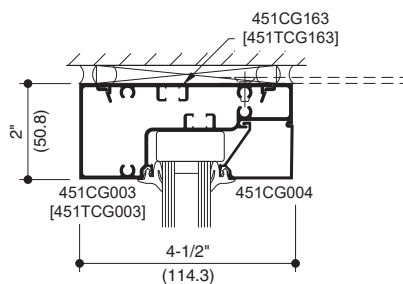


5
VERTICAL

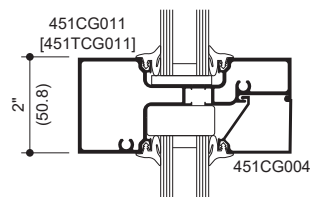


6
JAMB

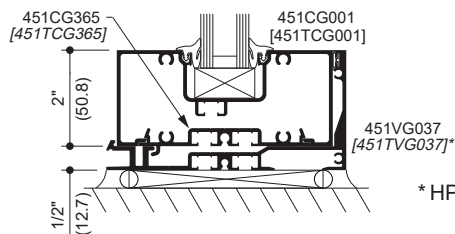
1
HEAD



2
HORIZONTAL



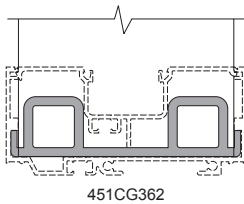
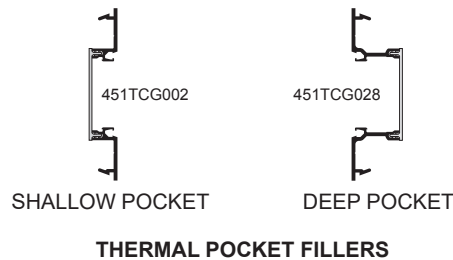
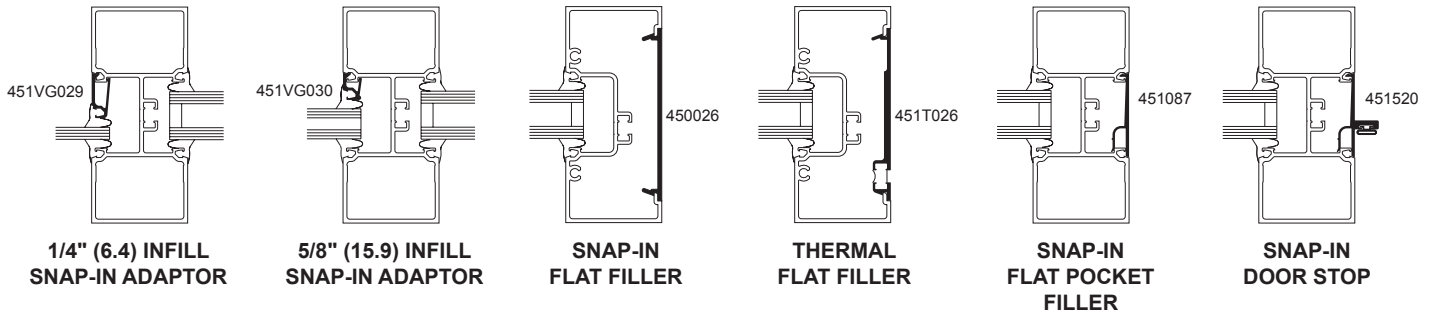
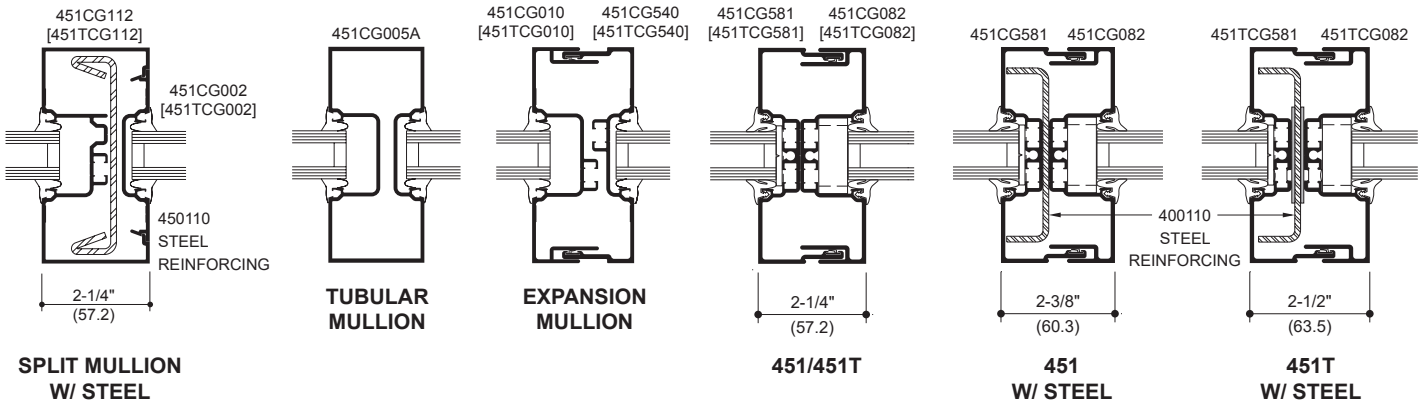
3
SILL



* HP Sill Flashing shown with optional gasket.

Additional information and CAD details are available at www.kawneer.com

PRE-GLAZED EXPANSION MULLIONS



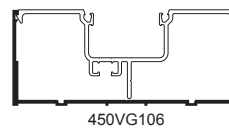
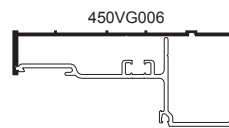
MULLION ANCHOR

NOTE:

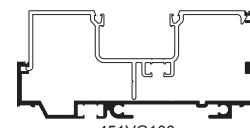
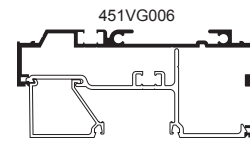
If the end reaction of the mullion (mullion spacing (ft.) times height (ft) times specified wind load (psf), divided by two) is more than 500 LBS., the optional mullion anchor must be used. Consult Application Engineering.

NOTE:

Mullion Anchor not used with Lightweight Receptor.



OPTIONAL LIGHTWEIGHT CAN RECEPTORS



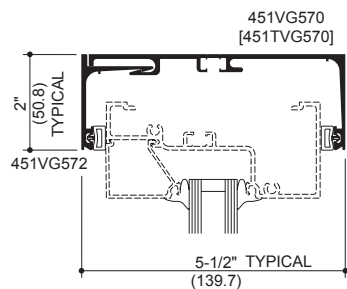
OPTIONAL UNEQUAL LEG CAN RECEPTORS

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

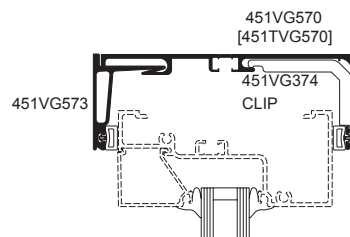
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

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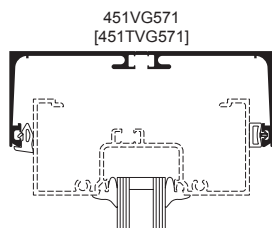
Additional information and CAD details are available at www.kawneer.com



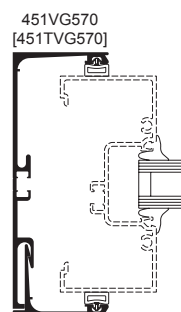
**STANDARD
HEAD
COMPENSATING RECEPTOR
(EXTERIOR INSTALLED)**



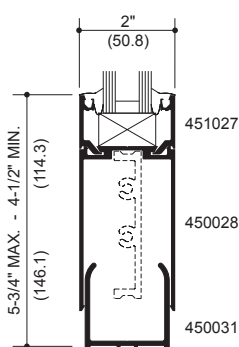
**HEAVY WEIGHT
HEAD
COMPENSATING RECEPTOR
(EXTERIOR INSTALLED)**



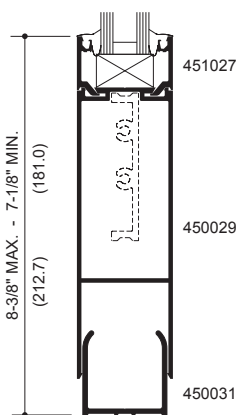
**ONE PIECE
HEAD
COMPENSATING RECEPTOR**



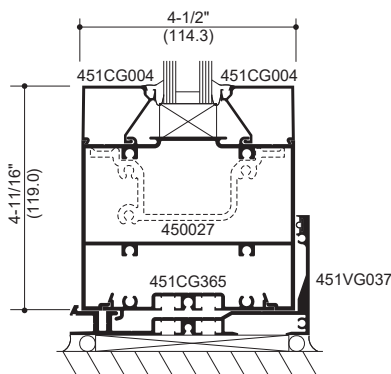
**JAMB
COMPENSATING RECEPTOR
(EXTERIOR INSTALLED)**



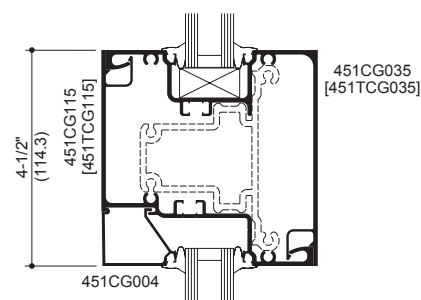
***NARROW
SIDELITE BASE**



***NARROW
SIDELITE BASE**



SIDELITE BASE



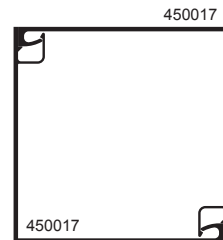
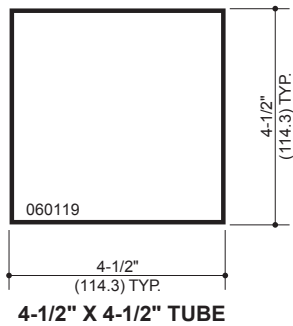
**4-1/2" (114.3) x 4-1/2" (114.3)
HORIZONTAL**

SIDELITE BASES ARE NON-THERMAL APPLICATIONS

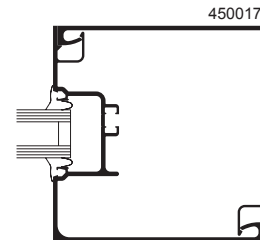
*NARROW SIDELITE BASES REQUIRE THE USE OF NON-THERMAL 2-PIECE VERTICALS ONLY.

NOTE: SIDELITE BASES SHOWN ARE FOR USE WITH SCREW SPLINE AND SHEAR BLOCK SYSTEMS ONLY.

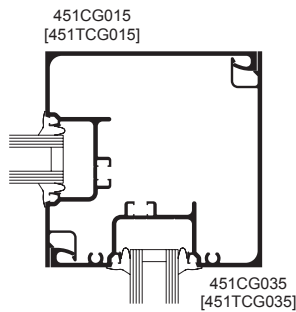
Additional information and CAD details are available at www.kawneer.com



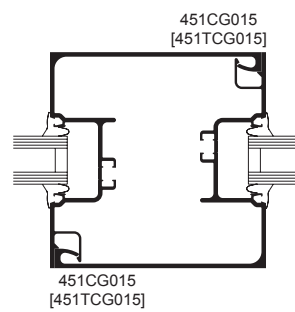
**TWO PIECE
NO POCKET CORNER**



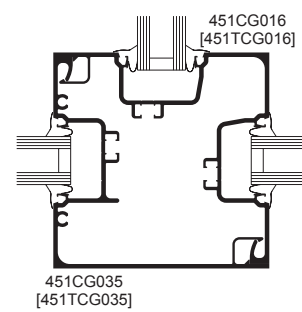
**ONE POCKET
CORNER**



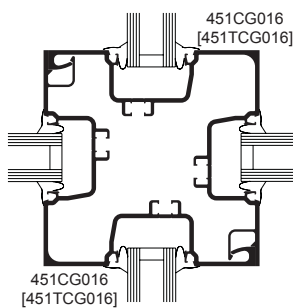
**TWO POCKET
90° CORNER**



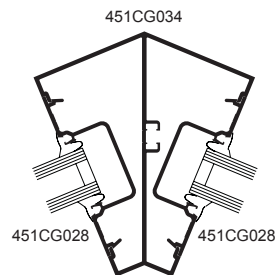
**TWO POCKET
CORNER POST**



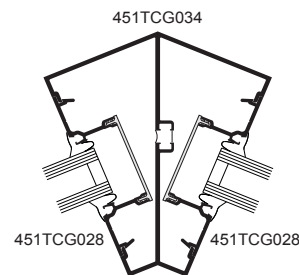
**THREE POCKET
90° CORNER**



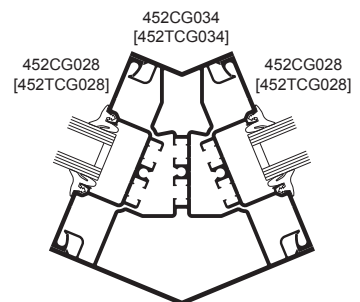
**FOUR POCKET
90° CORNER**



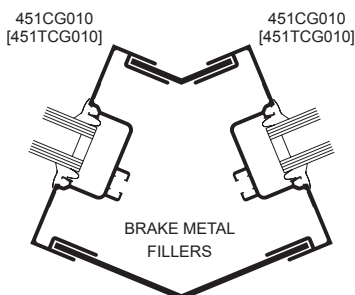
**135° CORNER
(NON-THERMAL)**



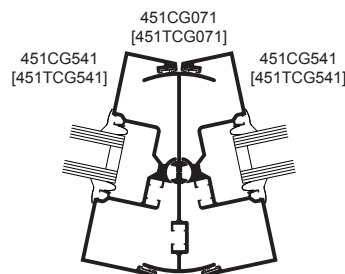
**135° CORNER
(THERMAL)**



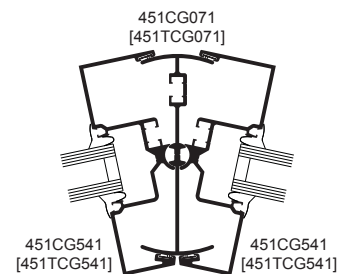
135° CORNER



**VARIABLE DEGREE
BRAKE METAL CORNER**



**155° TO 180° PIVOT MULLION
(OUTSIDE CORNER)**

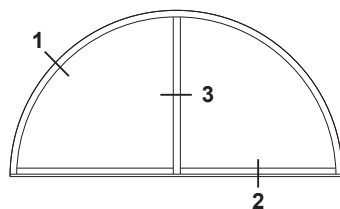


**155° TO 180° PIVOT MULLION
(INSIDE CORNER)**

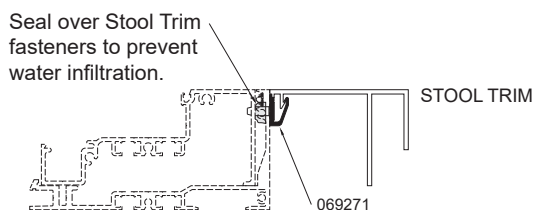
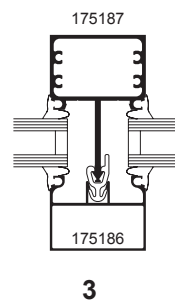
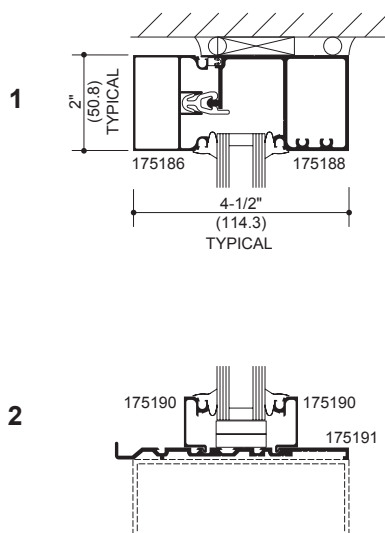
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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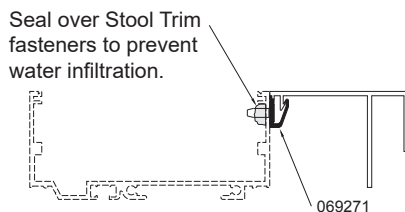
Additional information and CAD details are available at www.kawneer.com



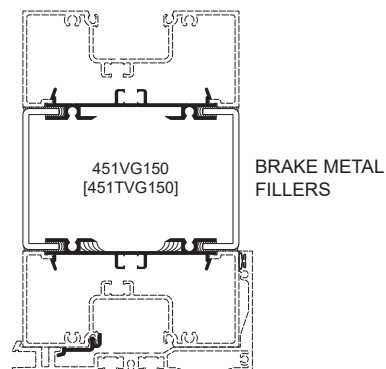
CURVING DETAILS
(Center Plane Only)



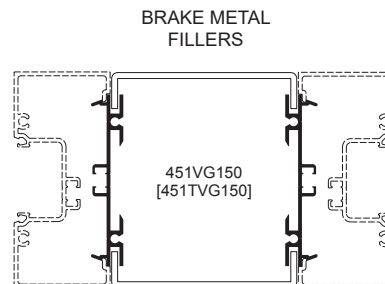
STOOL TRIM CLIP
WITH HIGH PERFORMANCE
FLASHING



STOOL TRIM CLIP
FOR STICK ASSEMBLY



BRAKE METAL
ADAPTOR AT HORIZONTAL



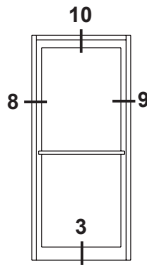
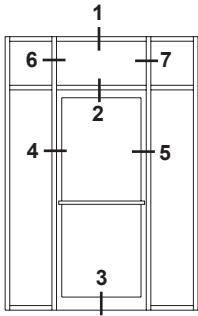
BRAKE METAL
ADAPTOR AT VERTICAL

Additional information and CAD details are available at www.kawneer.com

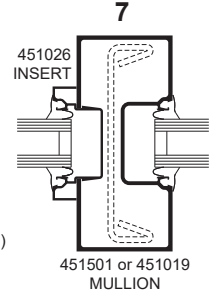
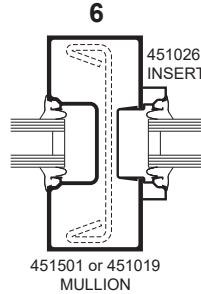
Trifab® VG 451 FRAMING INCORPORATING KAWNEER® “190” DOORS.

DOOR FRAMING NON-THERMAL ONLY

NOTE: OTHER TYPES OF KAWNEER DOORS MAY BE USED WITH THIS FRAMING SYSTEM.
SEE ENTRANCE DETAILS FOR ADDITIONAL INFORMATION.

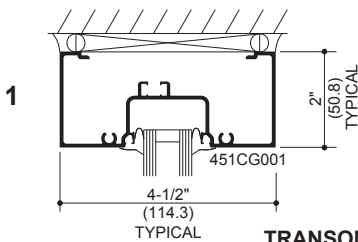


ELEVATIONS ARE NUMBER KEYED TO DETAILS

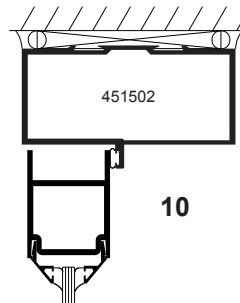
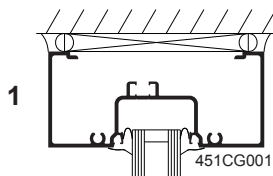


TRANSOM JAMBS

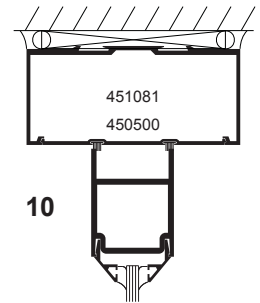
Transom area for both double or single acting doors with glass surround. Jamb above transom bar are routed out to accept glass holding insert with or without steel reinforcing.



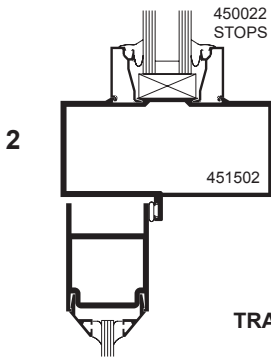
TRANSOM HEAD



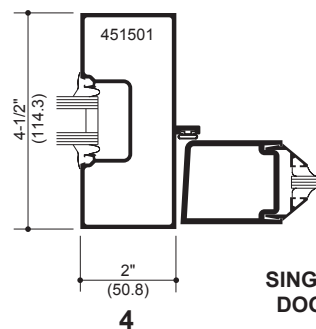
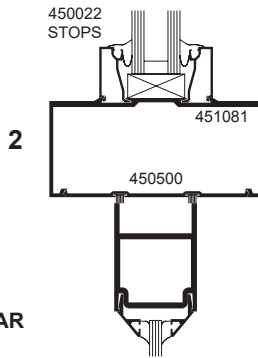
SINGLE ACTING
HEADER



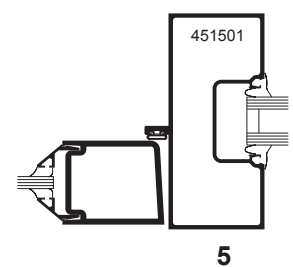
DOUBLE ACTING
HEADER



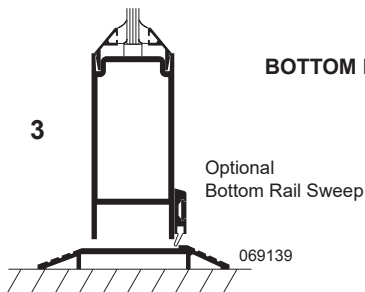
TRANSOM BAR



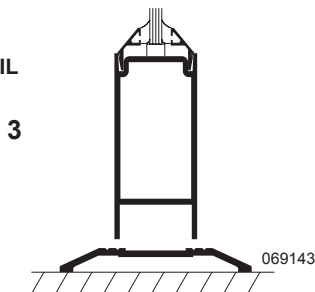
SINGLE ACTING
DOOR JAMBS



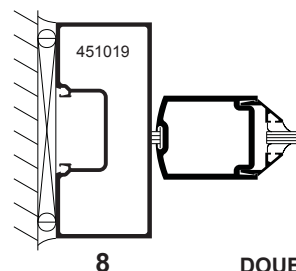
5



SINGLE ACTING

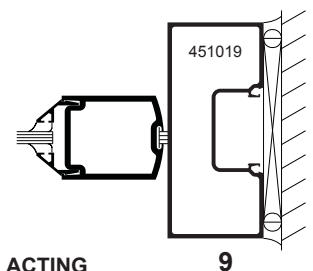


DOUBLE ACTING



8

DOUBLE ACTING
DOOR JAMBS



9

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

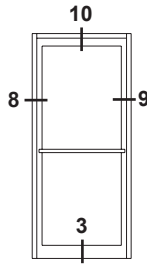
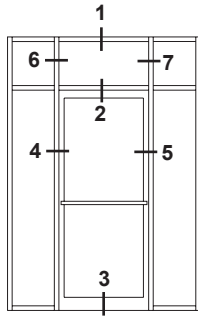
Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
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Additional information and CAD details are available at www.kawneer.com

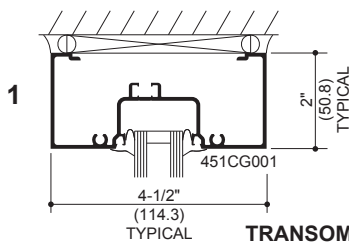
Trifab® VG 451 FRAMING INCORPORATING KAWNEER® "190" DOORS.

DOOR FRAMING NON-THERMAL ONLY

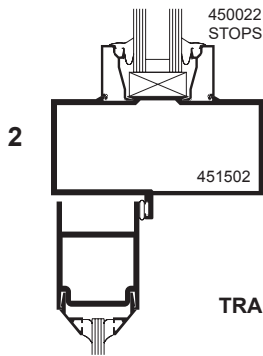
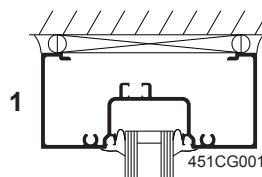
NOTE: OTHER TYPES OF KAWNEER DOORS MAY BE USED WITH THIS FRAMING SYSTEM.
SEE ENTRANCE DETAILS FOR ADDITIONAL INFORMATION.



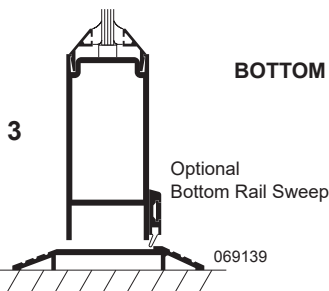
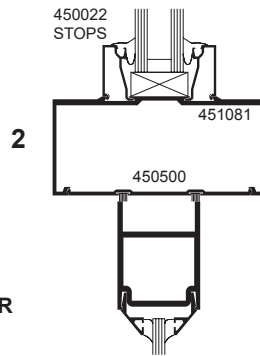
ELEVATIONS ARE NUMBER KEYED TO DETAILS



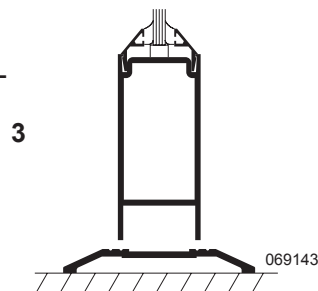
TRANSOM HEAD



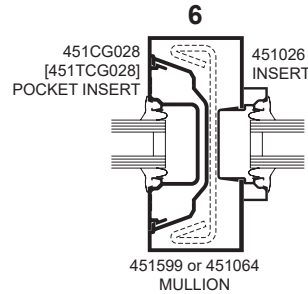
TRANSOM BAR



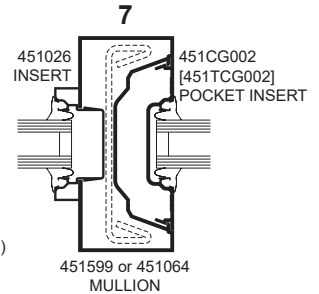
SINGLE ACTING



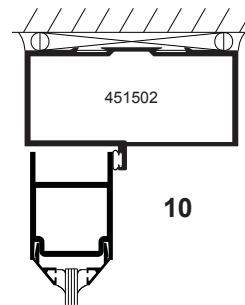
DOUBLE ACTING



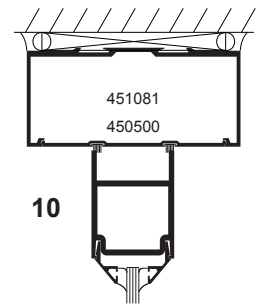
TRANSOM JAMBS



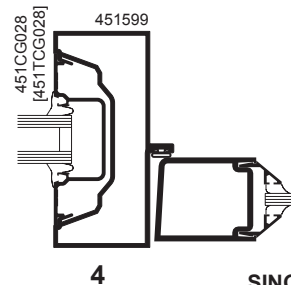
Transom area for both double or single acting doors with glass surround. Jamb above transom bar are routed out to accept glass holding insert with or without steel reinforcing.



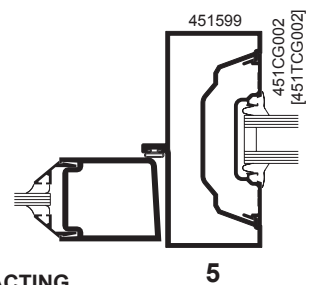
SINGLE ACTING
HEADER



DOUBLE ACTING
HEADER

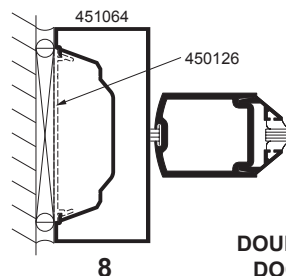


SINGLE ACTING
DOOR JAMBS

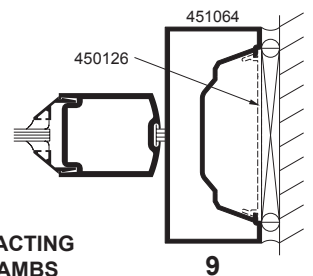


5

NOTE: Sidelite mullions must be oriented to provide at least one (1) deep vertical pocket per lite to facilitate glazing.



DOUBLE ACTING
DOOR JAMBS

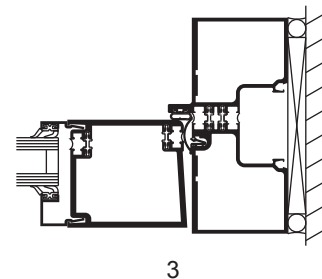
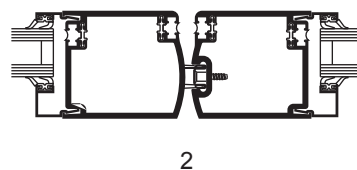
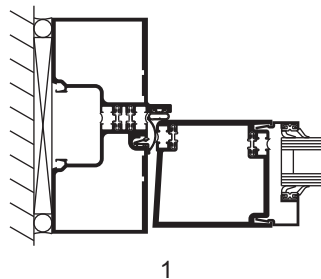
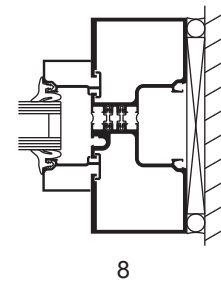
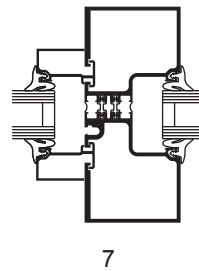
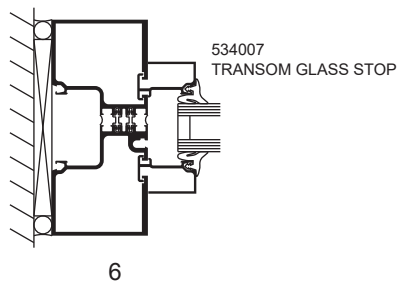
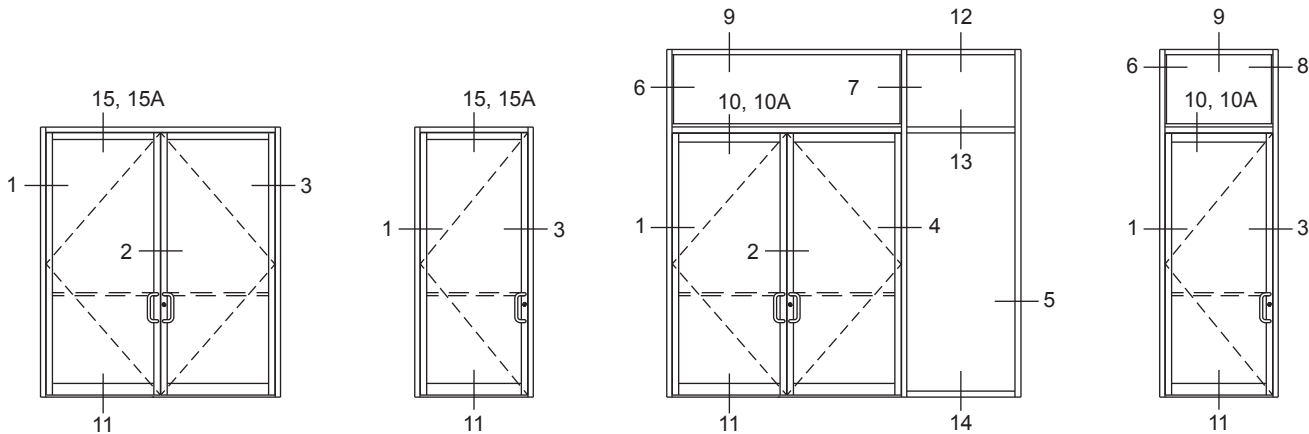


9

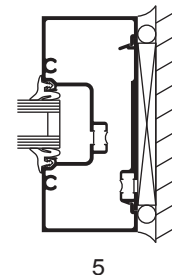
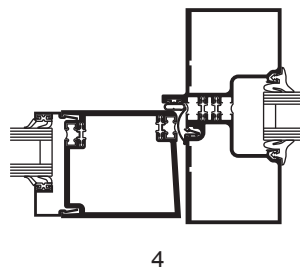
Additional information and CAD details are available at www.kawneer.com

NOTE:

1. SERIES 250T NARROW STILE DOORS ARE DETAILED, MEDIUM STILE 350T DOORS AND WIDE STILE 500T DOORS ALSO MAY BE USED.
2. TRIFAB® VG 451T CENTER, 2" x 4-1/2" (50.8 x 114.3) FRAMING IS DETAILED WITH THE DOORS FOR REFERENCE. OTHER KAWNEER FRAMING SERIES OR CURTAIN WALL SYSTEMS MAY BE USED.



SINGLE ACTING DOORS

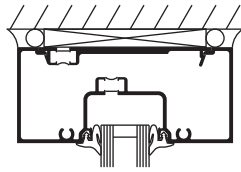


Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

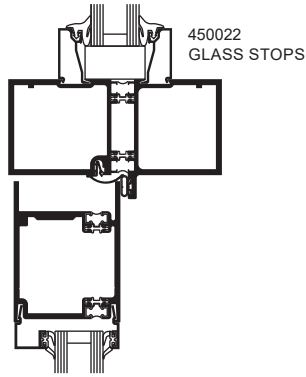
© 2018, Kawneer Company, Inc.

Additional information and CAD details are available at www.kawneer.com

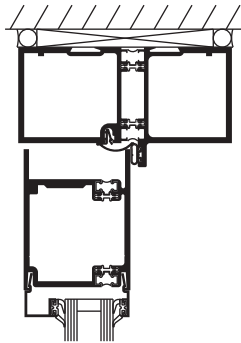


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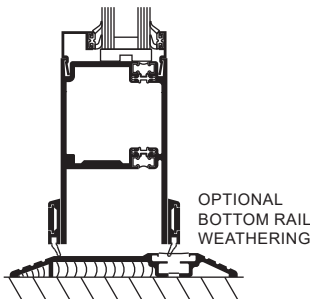
SINGLE ACTING DOORS



10

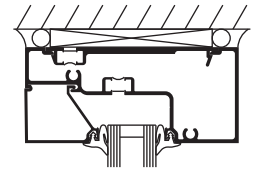


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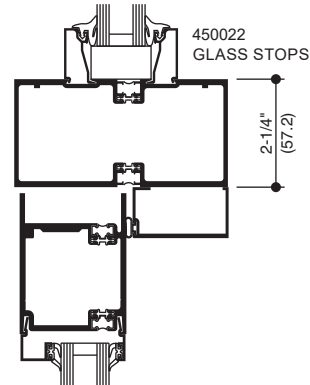
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SURFACE OVERHEAD CLOSER

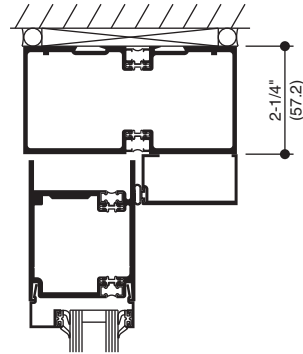


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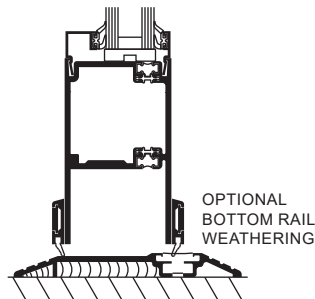
COC WITH SINGLE ACTING OFFSET ARM



10A

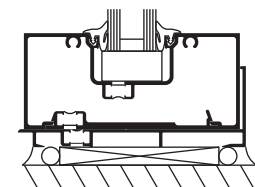


15A



11

CONSEALED OVERHEAD CLOSER



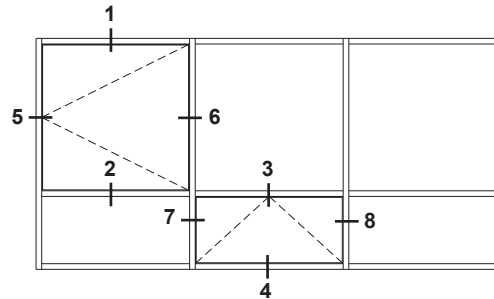
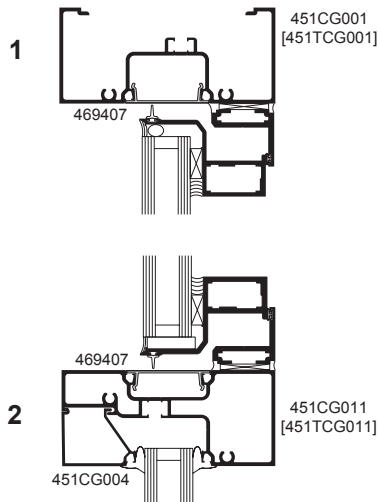
14

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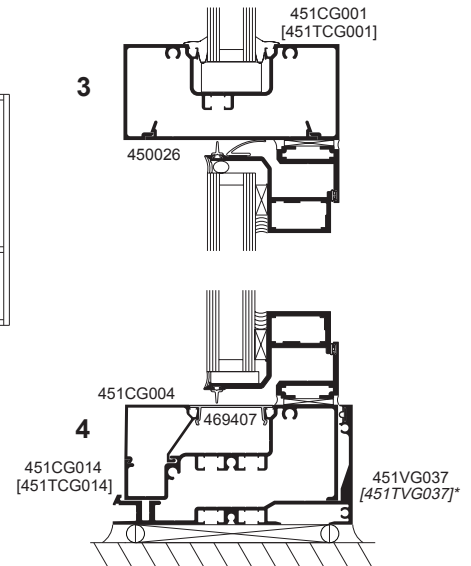
Additional information and CAD details are available at www.kawneer.com

OUTSWING CASEMENT VERTICAL SECTION

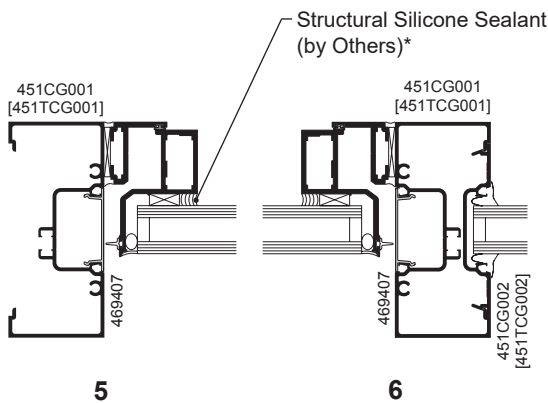


ELEVATION IS NUMBER KEYED TO DETAILS

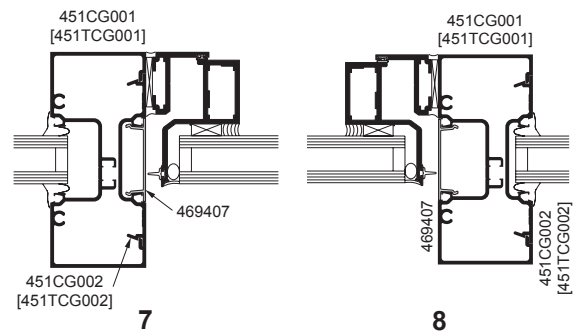
PROJECT-OUT VERTICAL SECTION



OUTSWING CASEMENT HORIZONTAL SECTION



PROJECT-OUT HORIZONTAL SECTION



NOTE: Black spacer is recommended when 1" (25.4) insulating glass is used.

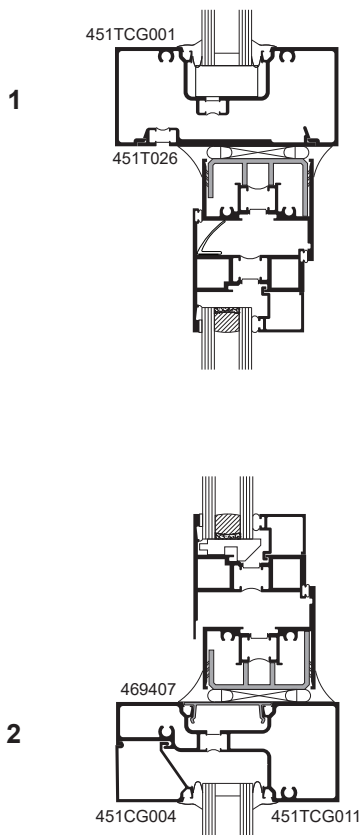
Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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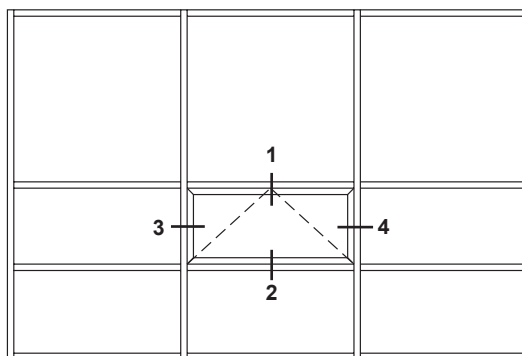
* **INSTALLER NOTE:** Installer is responsible for all required compatibility review and approvals with the Structural Silicone Manufacturer and the Insulating Glass Unit Manufacturer.

Additional information and CAD details are available at www.kawneer.com

PROJECT-OUT VERTICAL SECTION

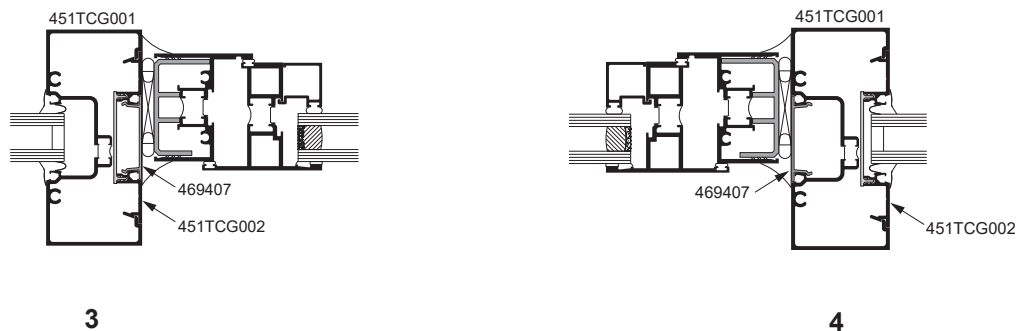


8225TL THERMAL WINDOWS SHOWN
NOTE: OTHER VENT TYPES CAN BE
 ACCOMMODATED, CONSULT YOUR KAWNEER
 REPRESENTATIVE FOR OTHER OPTIONS



ELEVATION IS NUMBER KEYED TO DETAILS

PROJECT-OUT HORIZONTAL SECTION



Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window, and curtain wall products, vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

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email

info@longboardproducts.com

web

longboardproducts.com

phone

1.800.604.0343

Siding Installation Guidelines

07 46 16 Longboard® Siding 4" V-Groove Planks

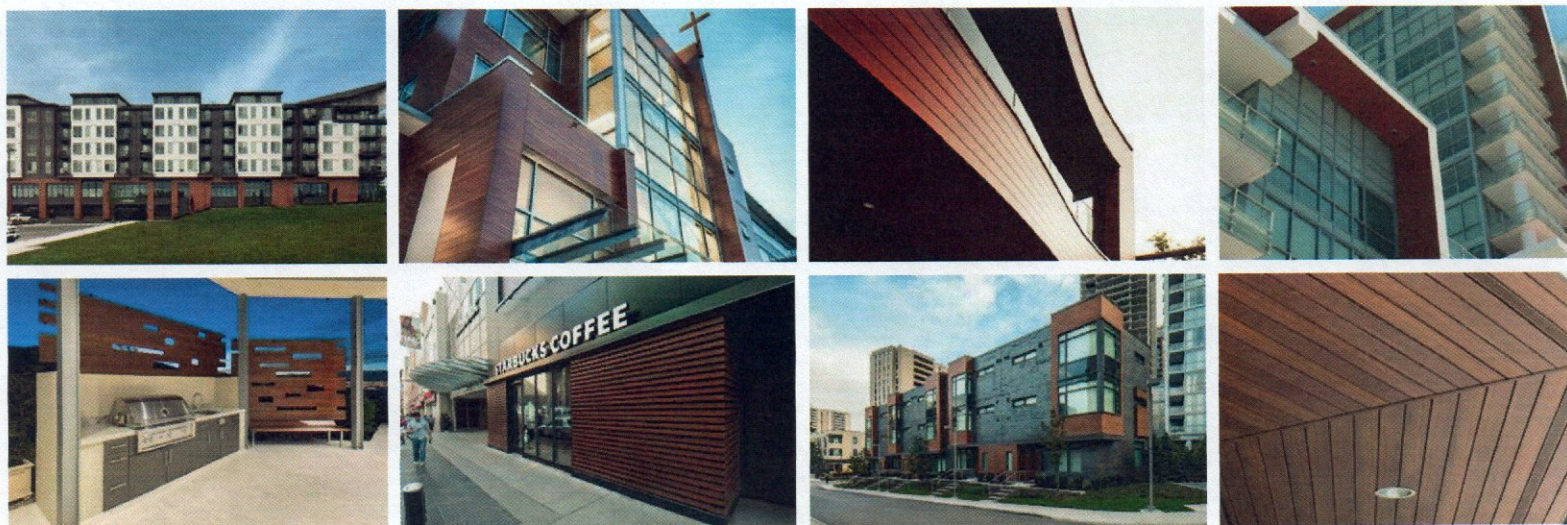
Product Specification Information:

07 46 16 Aluminum Siding

07 42 93 Linear Metal Soffits

09 54 23 Linear Metal Ceilings

07 00 00 Thermally Broken Sub-structure



■ INTRODUCTION

INSTALLATION GUIDELINES

NOTE: These instructions are prepared for persons experienced in the field of soffit and siding installation and assume a foundational working knowledge of the tools and application process. Longboard is a rear ventilated rain screen (RVRS) cladding system which meets the requirements of Part 9 of the building code, when installed according to these instructions. Typically Longboard® does not require traditional rainscreen, please check with the Authority Having Jurisdiction to verify local rainscreen requirements. It is highly recommended that Longboard be installed by an experienced professional.

This manual must be read in conjunction with project drawings and specifications, applicable building codes, and relevant compliance documents. The details in this manual provide guidance on how to comply with Longboard®'s installation requirements and need to be reviewed by all parties who are responsible for installing Longboard® products on a project. This manual is subject to periodic re-examination and revision. For information on the current status of these documents please check the Longboard® website, www.longboardproducts.com. The reader is responsible for ensuring that they are using the most up-to-date information.

BEST PRACTICES:

- Use appropriate PPE (personal protective equipment). The cutting of metal increases the risk of eye injury and hearing loss. **USE EYE AND HEARING PROTECTION.**
- Plan your install for best yield/finish appearance.
- With Longboard® woodgrains, understand the repeating pattern to ensure a satisfactory install.
- Do not install over pressure treated material without adequate barrier protection.
- Keep courses straight and level, and in line with adjacent walls. Throughout installation, check the panels' horizontal alignment every few rows to ensure the siding is installed straight and level on the wall and for panel alignment around corners and above doors and windows.
- Siding is only as straight and stable as its substrate. In re-siding: strapping or removal of original cladding may be necessary. Only install over a flat substrate or a suitable cladding sub-structure.
- A proper amount of care, as with any prefinished product, will result in a premium quality installation and a lifetime of maintenance free enjoyment.

KEEPING IT STRAIGHT AND LEVEL

- Keep in mind, siding is only as straight and stable as what lies under it.
- Throughout installation, check the panels' horizontal alignment every few rows to make sure the siding is hanging straight and level on the wall. Also check for panel alignment around corner posts and above doors and windows.



ATTENTION

UPON DELIVERY:

Check the delivery is complete and all materials have arrived in good condition. Inspect product prior to installation. Longboard® is not responsible for the installation of blemished or damaged product.

WATER-RESISTIVE BARRIER

WATER-RESISTIVE BARRIER

Prior to siding, make sure the water-resistive barrier is properly installed according to the manufacturers' instructions.

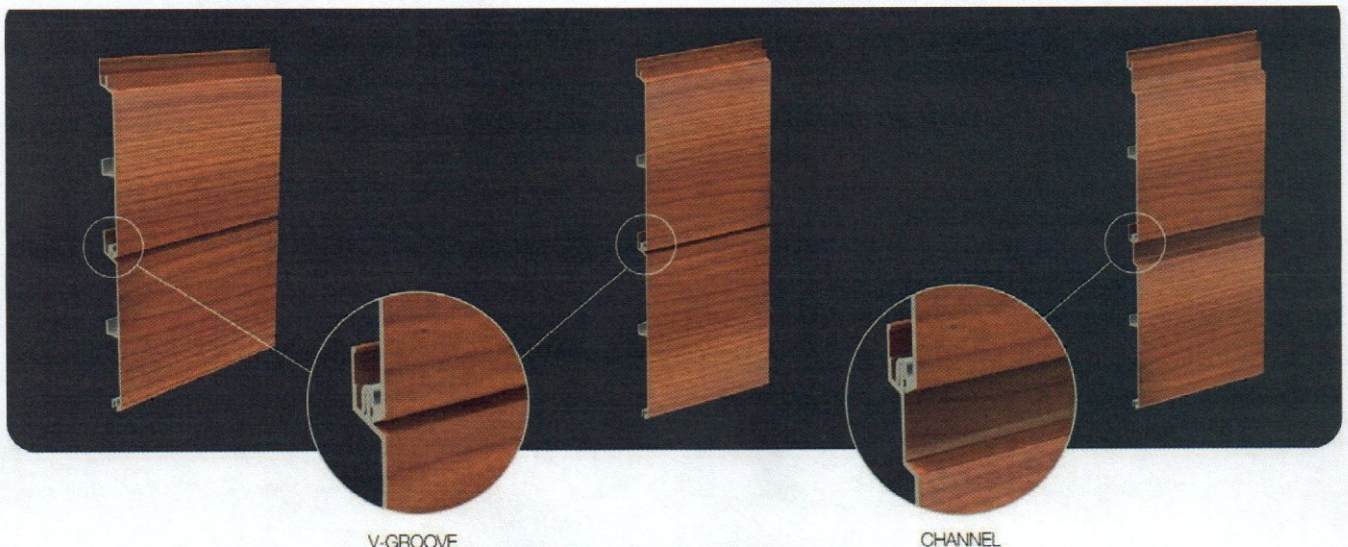
IBC Code Reference: "1403.2 Weather protection. Exterior walls shall provide the building with a weather resistant exterior wall envelope. The exterior wall envelope shall include flashing, as described in Section 1405.3. The exterior wall envelope shall be designed and constructed in such a manner as to prevent the accumulation of water within the wall assembly by providing a water-resistive barrier behind the exterior veneer, as described in Section 1404.2, and a means for draining water that enters the assembly to the exterior. Protection against condensation in the exterior wall assembly shall be provided in accordance with the International Energy Conservation Code.

Exceptions:

1. A weather-resistant exterior wall envelope shall not be required over concrete or masonry walls designed in accordance with Chapters 19 and 21, respectively.
2. Compliance with the requirements for a means of drainage, and the requirements of Sections 1404.2 and 1405.3, shall not be required for an exterior wall envelope that has been demonstrated through testing to resist wind-driven rain, including joints, penetrations and intersections with dissimilar materials, in accordance with ASTM E 331 under the following conditions..."

FLASHING

IBC Code Reference: "1405.3 Flashing. Flashing shall be installed in such a manner so as to prevent moisture from entering the wall or to redirect it to the exterior. Flashing shall be installed at the perimeters of exterior door and window assemblies, penetrations and terminations of exterior wall assemblies, exterior wall intersections with roofs, chimneys, porches, decks, balconies and similar projections and at built-in gutters and similar locations where moisture could enter the wall. Flashing with projecting flanges shall be installed on both sides and the ends of copings, under sills and continuously above projecting trim."

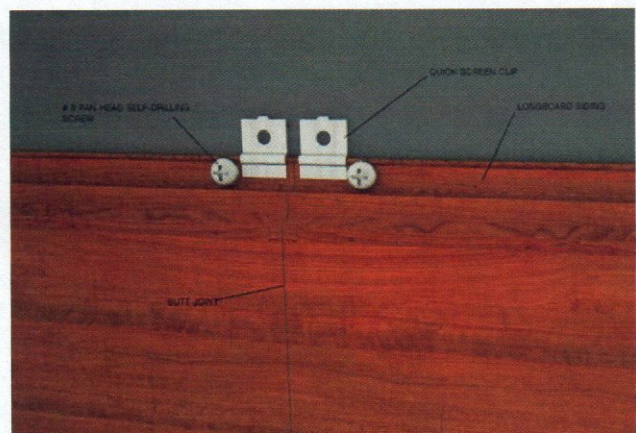
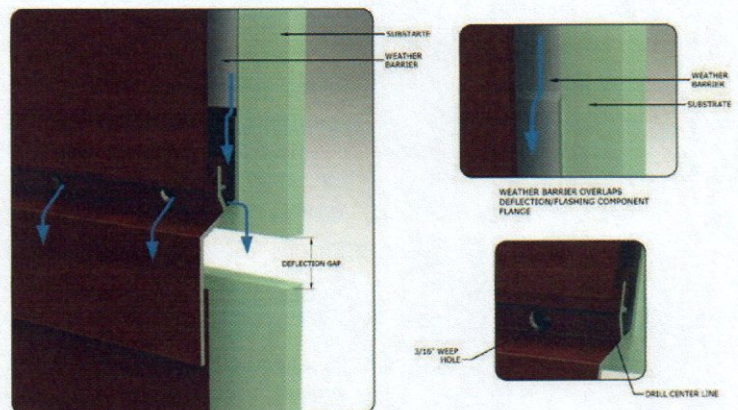


EXPANSION & CONTRACTION

EXPANSION/CONTRACTION & TRIMS:

- Longboard® is aluminum, and will expand and contract $\frac{1}{4}$ " every 24' in all directions when exposed to a temperature change of 30 degrees C (54 F).
- Lengthwise, each panel MUST terminate into a minimum of one trim.
- Typical trims used are: Starter Strip, J-Track around windows & doors, Corners, Finishing Cap/Finishing Base at the top of walls & underside of windows and Flat Cap/Base or U Cap/Base for expansion trims in the field.
- Install Longboard® 2 $\frac{1}{2}$ " Perforated Vent Strip where soffit venting is required, as per local code requirements.
- Longboard® perforated vent provides 84 inches of Net Vent Area per 12' stock length. 21 lineal ft. = 1 sq. ft. of NVA.
- It is imperative that Longboard® panels are cut to fit to the midpoint coverage of trim pieces. This will allow for both expansion and contraction without bottoming out or contracting out. Do not fasten Longboard panels and trims together as this will not allow for free movement.
- Perpendicular to the panels, Longboard® Siding & Soffit must be broken up using an expansion trim (Finishing Cap/Finishing Base or Flat Cap/Base or U Cap/Base) or through-wall flashing at every floor elevation or a maximum of 24' to accommodate expansion/contraction and floor compression.
- Horizontal/Compression Joints are required for multi-story installations locate joints at floor lines. Joints are flashed minimum $\frac{1}{2}$ " (12.7 mm) breaks. Do not caulk.
- Wood framed buildings of three or more floors require a compression joint or through-wall flashing at each floor.
- Steel framed buildings (including reinforced concrete core with LGMF exterior walls) of more than three floors (or 45 feet/14 m) require a compression joint every 25 feet (7.62) m at a floor line.
- Staggered butt-joints are acceptable, with only one butt-joint per row between two trims. Hard fasten each panel through the flange, with a self-tapping screw each side of the butt-joint. This will keep the butt-joint tight while allowing free movement of expansion/contraction via the Quick-Screen™ clips and into the pocket of the trims. Use touch-up pens (light & dark) to paint cut ends of exposed aluminum.

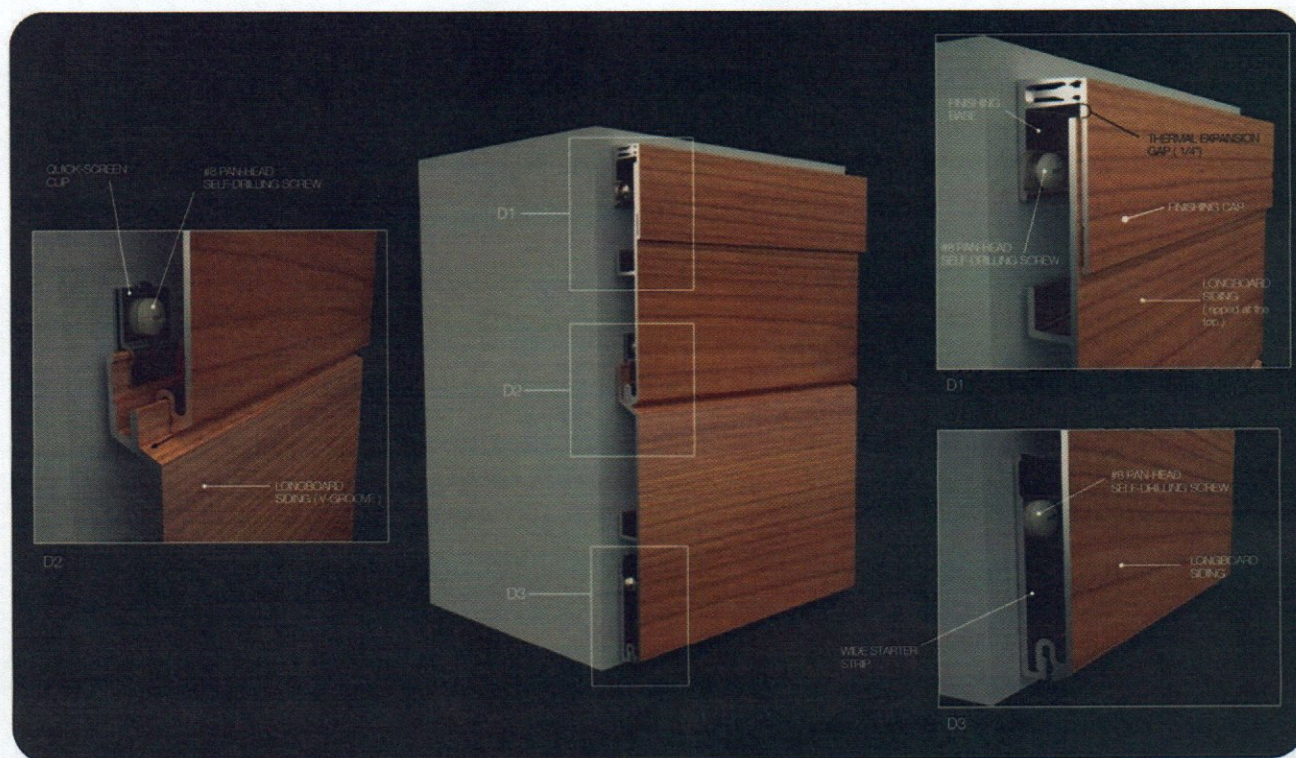
DEFLECTION/FLASHING COMPONENT - FLASHING FUNCTION



CUTTING

CUTTING & REPEAT PATTERNS:

- Cut Longboard® using standard wood cutting tools such as a miter saw & table saw with a carbide blade for non-ferrous metals. 60-80 tooth blades are recommended.
- Cut face up whenever possible: Longboard® is a prefinished material. A reasonable amount of care is critical to obtain the desired results and to prevent marring and scratching.
- All Longboard® Siding and Soffit panels & trims are produced a minimum of 1" longer than the spec'd length, allowing the trimming of taped ends on woodgrain colour installations. **Always cut off taped ends as trims will not cover the unfinished ends.**
- Use touch-up pens (light & dark) to paint cut ends of any visible aluminum.
- Longboard® woodgrains have a repeat pattern every 2'-4', depending on the species. Longboard® is delivered in boxes of 8 pcs of 6" profile or 12 pcs of 4" profile with sets of two pieces taped together at each end, for a total of 4 or 6 sets. Each set has a "piece A" and a "piece B" (from a wood pattern perspective) where these pieces are created from a different area of the pattern and are distinct from each other, however each will have the same repeat distance. To eliminate grain mirroring it is recommended to install a "piece A" then a "piece B" then an offset "piece A" then an offset "piece B" and continue mixing the pieces up the wall.

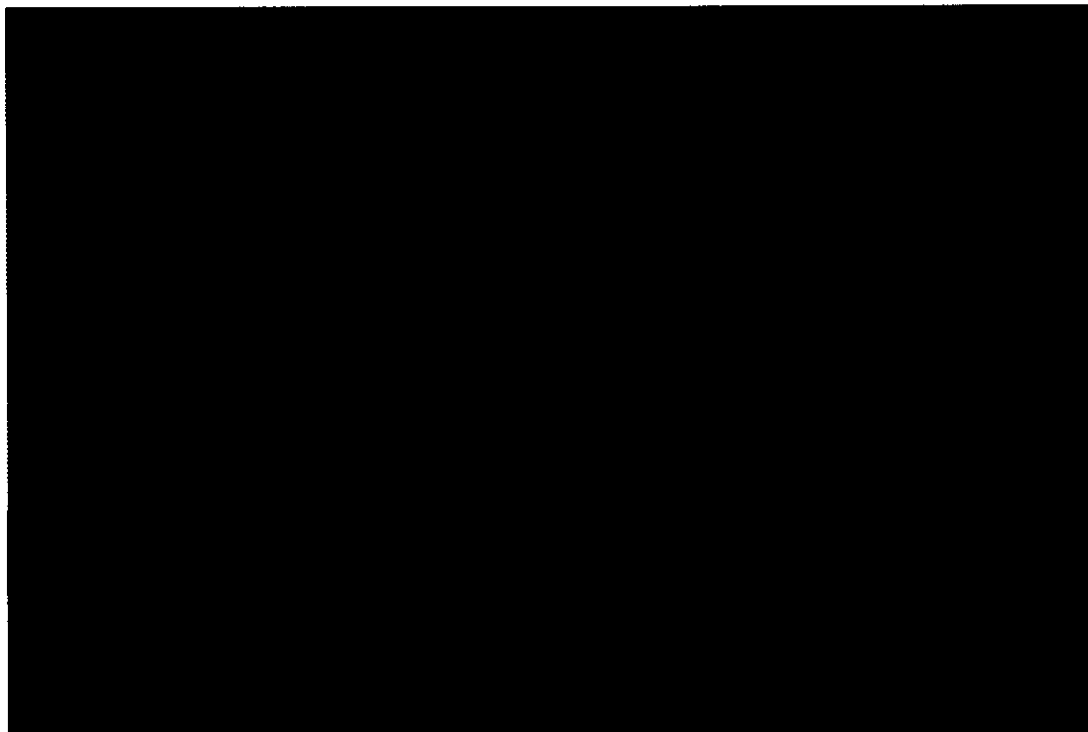


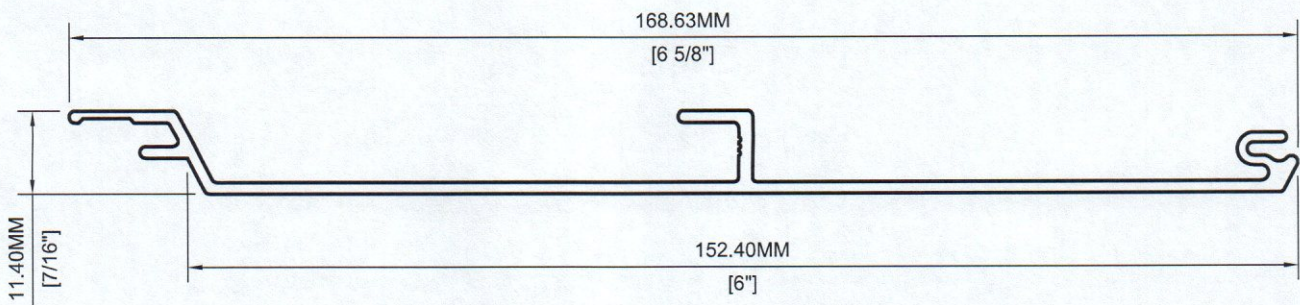
■ FASTENING

INSTALLING & FASTENING

INSTALLING & FASTENING:

- Install trims first, hard fastening with #8 self-drilling corrosion resistant exterior screws (supplied by others) directly through the flange. Use included Quick-Screen™ clips for Starter Strip and Finishing Base or any horizontal trim, to maintain the rear ventilation plane, but still hard fasten for attachment.
- Longboard® panels are installed using Quick-Screen™ clips @ 32" o.c. (standard requirement), included with each siding/soffit order. The clips create the rear ventilation plane and allow for thermal expansion/contraction. Secure tight using appropriate length, #8 corrosion resistant exterior screws (supplied by others) suitable for the application and climate. Screws allow the installer to "back off" the screw and shim tight to address any substrate discrepancies. It is good practice to install one hard fastener at the midpoint of each panel, through the flange, to prevent migration of the cladding.
- 1 Box of 4" V Groove Includes: 135 Clips
- 1 box of 6" V Groove or Channel Includes: 90 Clips
- Each 12' length of Vent Strip Includes: 5 Clips
- If less than 32" spacing is required, additional clips can be purchased through your dealer.
- Hard fasten any butt-joints (see expansion/contraction).
- Snap in any Finishing Cap, Flat Cap and/or U Cap to complete installation.






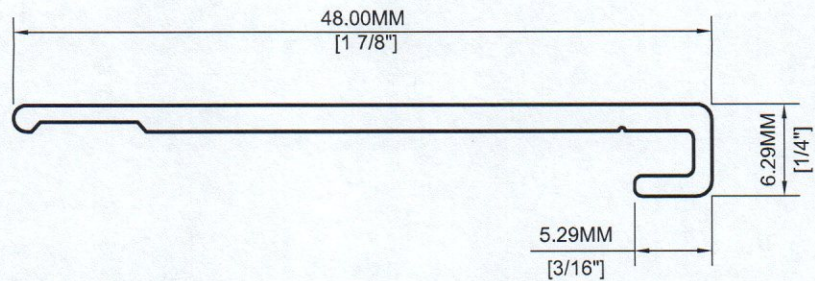
PROFILE DETAIL

These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.longboardproducts.com. You should obtain architectural, engineering or other technical advice to assess the suitability of these drawings to the requirements of your particular project.

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For complete installation instructions refer to the appropriate documentation at www.longboardsuppliers.com/installation

DRAWING #: 013	DRAWING TITLE: 6in V-GROOVE SIDING & SOFFIT PANEL	 LONGBOARD® <small>INSPIRING FACADES</small>
SCALE: 1:1		
DRAWN BY: AS REVISED BY:		



PROFILE DETAIL

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DRAWING #:

007

DRAWING TITLE:

WIDE STARTER STRIP

SCALE:

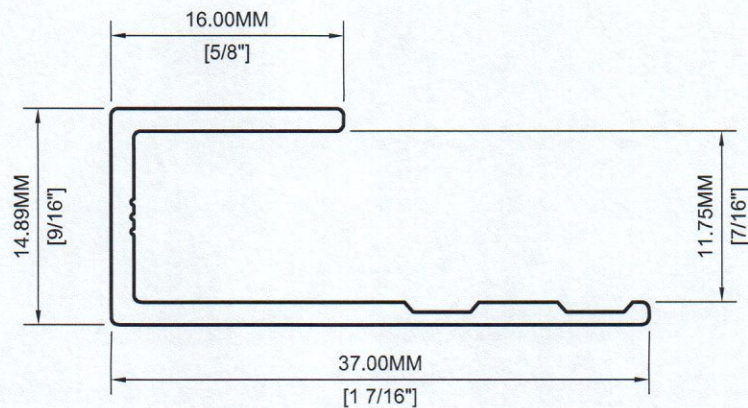
2:1

DRAWN BY:

AS

REVISED BY:

LONGBOARD®
INSPIRING FACADES



PROFILE DETAIL

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DRAWING #:

009

DRAWING TITLE:

J TRACK

SCALE:

2:1

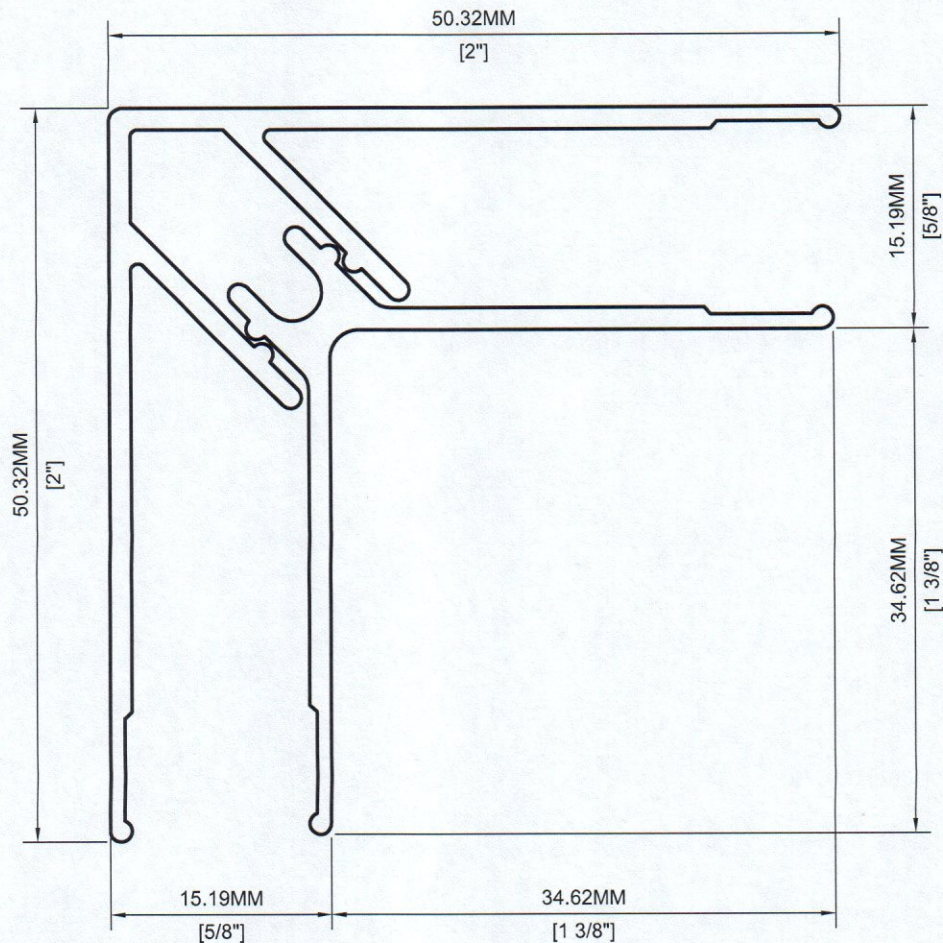
DRAWN BY:

AS

REVISED BY:



LONGBOARD®
INSPIRING FACADES



PROFILE DETAIL

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DRAWING #:

008

DRAWING TITLE:

INSIDE & OUTSIDE CORNER

SCALE:

2:1

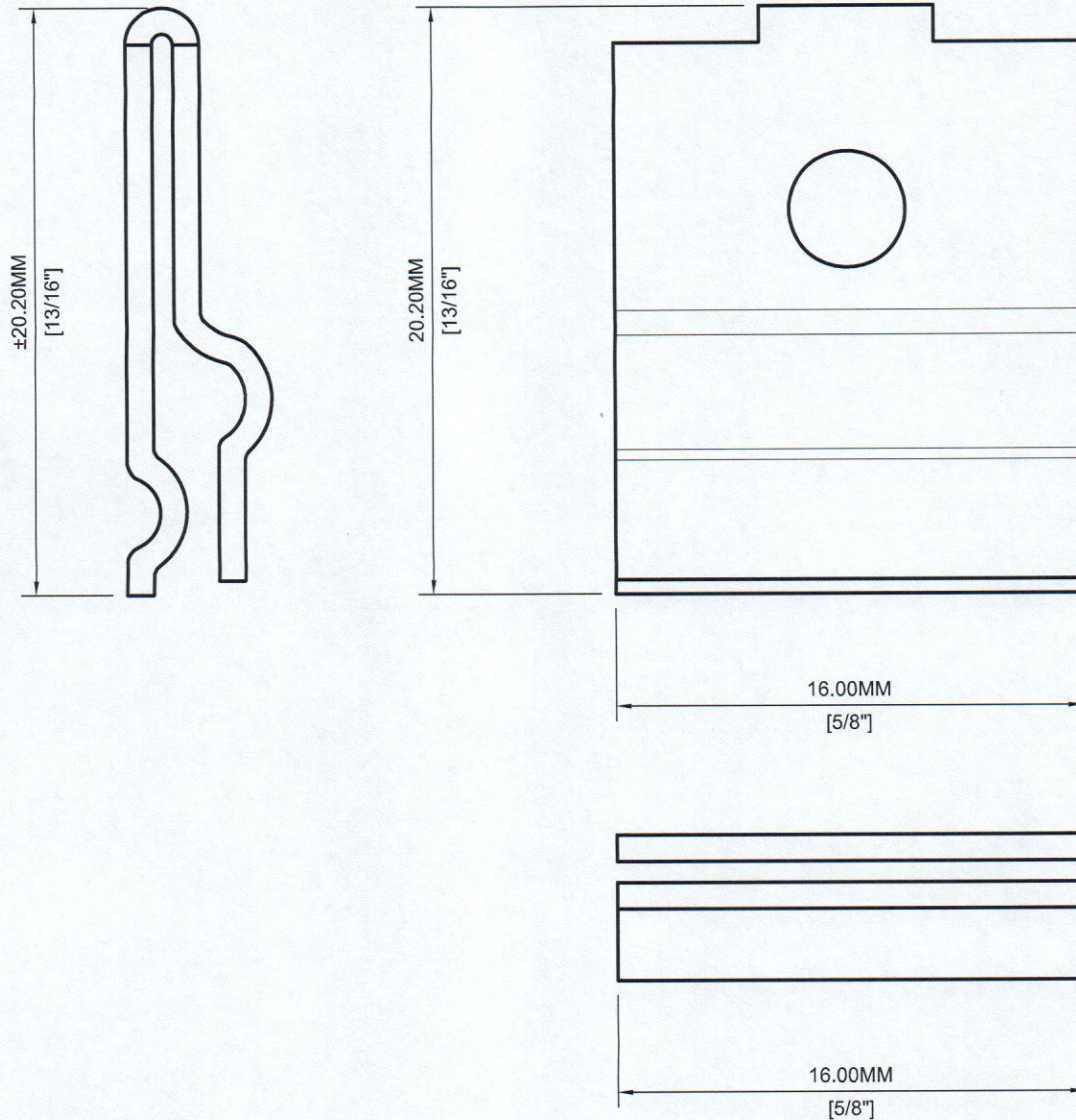
DRAWN BY:

AS

REVISED BY:



LONGBOARD®
INSPIRING FACADES



PROFILE DETAIL

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DRAWING #:

011

DRAWING TITLE:

QUICK SCREEN CLIP

SCALE:

4:1

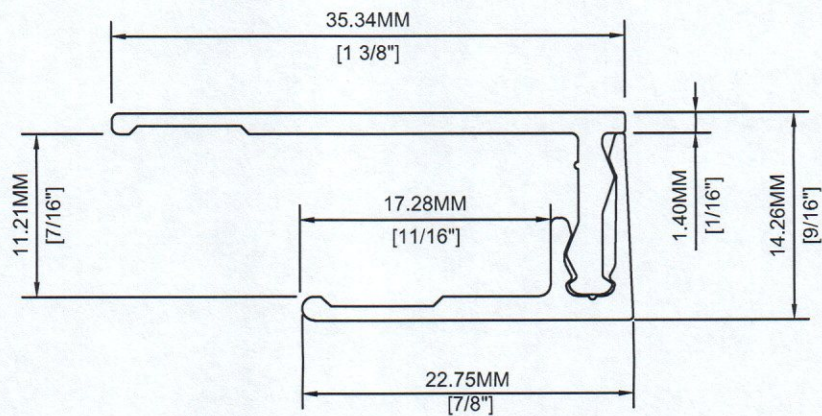
DRAWN BY:

AS

REVISED BY:



LONGBOARD®
INSPIRING FACADES



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For complete installation instructions refer to the appropriate documentation at www.longboardsuppliers.com/installation

DRAWING #:

012

DRAWING TITLE:

REVISED FINISHING CAP AND BASE
FEBRUARY 2019

SCALE:

2:1

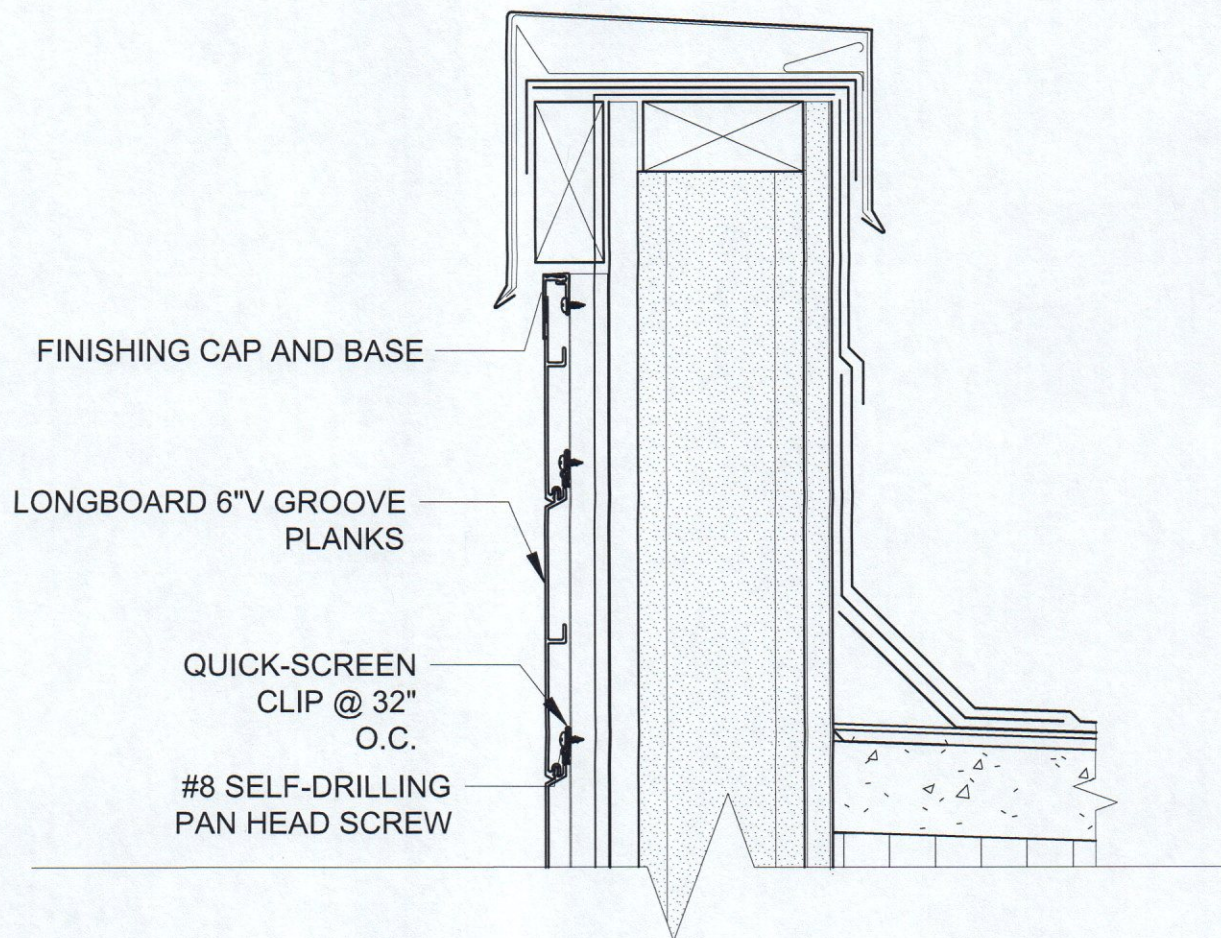
DRAWN BY:

SM

REVISED BY:

CD

LONGBOARD®
INSPIRING FACADES



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DRAWING #:

DRAWING TITLE:

SCALE:

DRAWN BY:

SM

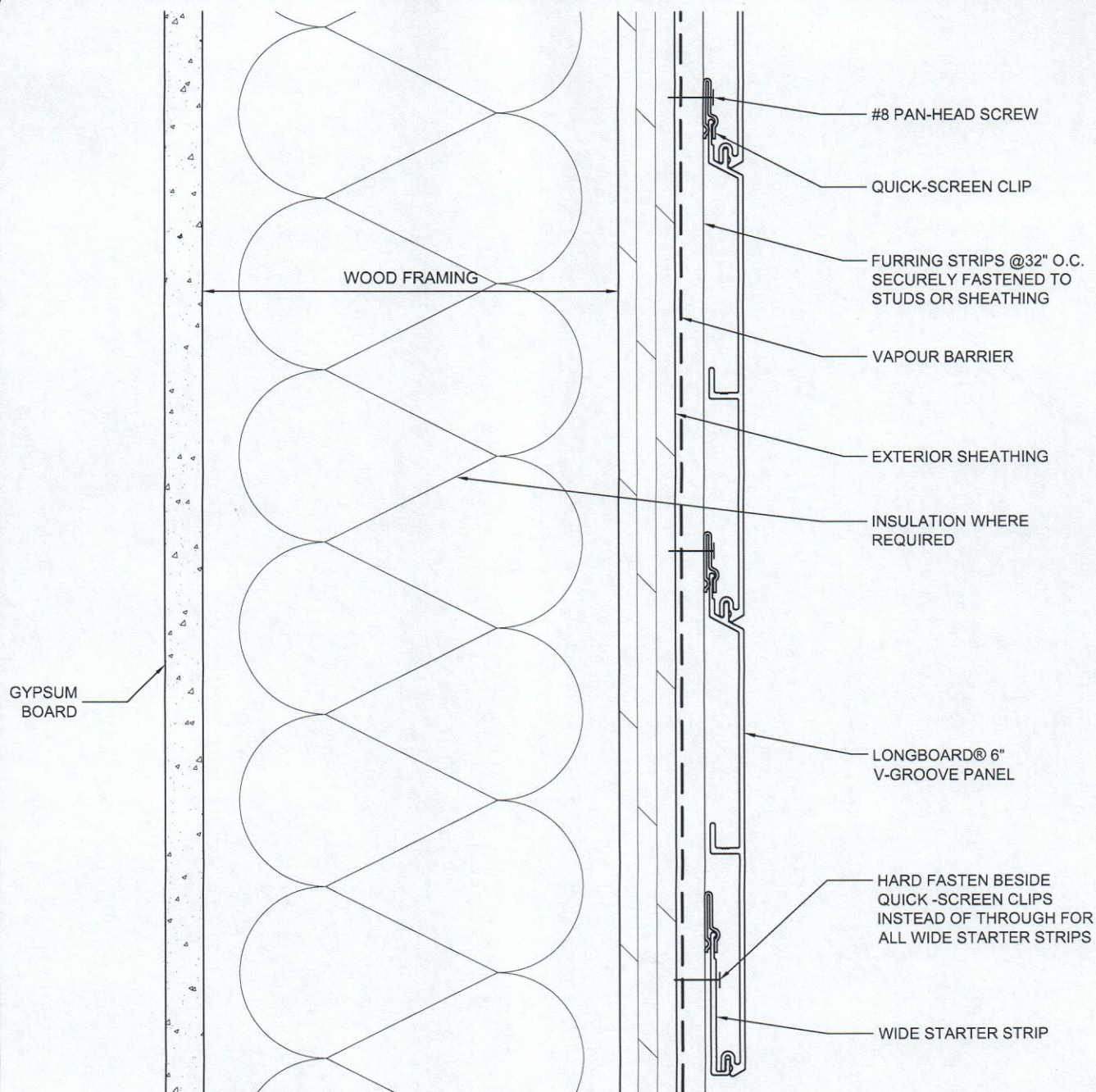
1:4

REVISED BY:

JH

SECTION DETAIL FOR LONGBOARD @
PARAPET

LONGBOARD®
INSPIRING FACADES



SECTION

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DRAWING #:

D-051

DRAWING TITLE:

**6" V-GROOVE PANEL
HORIZONTAL APPLICATION**

SCALE:

2:1

DRAWN BY:

AS

REVISED BY:



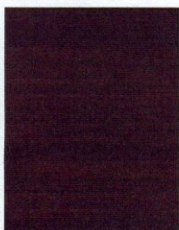
LONGBOARD®
INSPIRING FACADES



WOODGRAIN OPTIONS

Our woodgrain options are divided into four categories based on the consistency of the wood grain pattern.

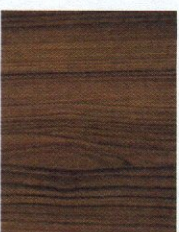
MODERATE



NATIONAL
MAHOGANY



DARK CHERRY



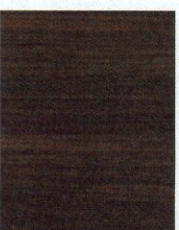
LIGHT CHERRY



WESTERN CEDAR



DARK NATIONAL
WALNUT



LIGHT NATIONAL
WALNUT

CONSIDERABLE

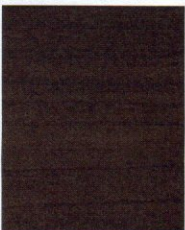
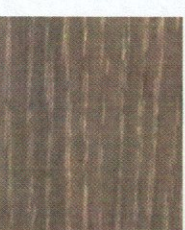


TABLE WALNUT

INTERIOR



WEATHERED GREY



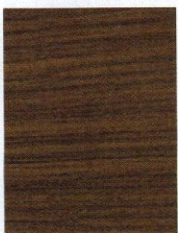
SAND DRIFT

Want to see the finishes in person? Request your samples today by emailing info@longboardproducts.com

WOODGRAIN OPTIONS

Our woodgrain options are divided into four categories based on the consistency of the wood grain pattern.

CONSISTENT



DARK ACACIA



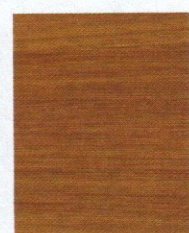
DARK BAMBOO



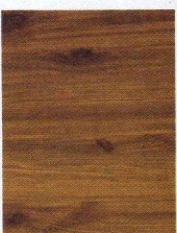
LIGHT BAMBOO



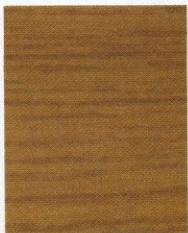
DARK FIR



LIGHT FIR



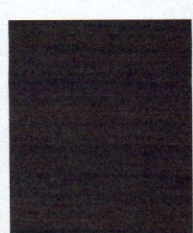
DARK KNOTTY PINE



LIGHT OAK



DARK WALNUT



ITALIAN ROSEWOOD



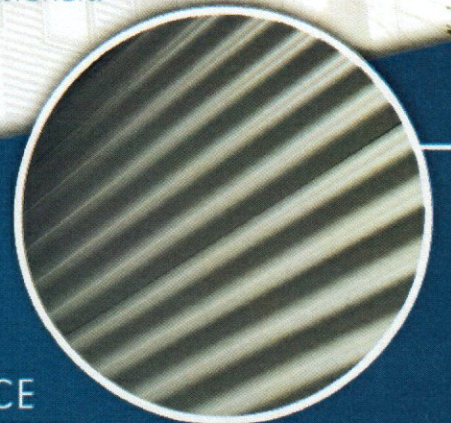
WHITE OAK



ATAS International, Inc.

Sustainable Building Envelope Technology

Achieve the sleek, architectural appearance of corrugated panels with no exposed fasteners.



MODERN CORRUGATED APPEARANCE

CORRA-LOK™

The corrugated panel upgrade: **Corra-Lok™**



Smooth

Finally, there is a panel with the beauty of a corrugated line without the unsightly fasteners!

Features

APPLICATION

- Wind-Lok® interlock increases strength of panel design
- Applications include commercial roofs, walls, mansards and equipment screens with a recommended minimum slope of 4:12
- Ease of installation
- Concealed fastener system
- Mix and match capabilities
- Custom extruded trim designs
- Horizontal or vertical installations
- Available with perforations

LONGEVITY

- Fire resistant – will not burn or support combustion
- May be an insurance advantage
- Will not warp, crack, rot or peel
- 30 Year Limited Warranty
- Resistant to high wind, torrential rain, heavy snow and ice loads
- High quality and time proven painting and pretreatment technologies
- PVDF Coating System

PERFORMANCE STANDARDS

- Tested in accordance with ASTM E 84 Flame Spread
- Easily integrated into drainage plane wall construction for energy performance



Specifications

Corra-Lok™ SKU: MFC160

Gauge

.032, .040", .050 aluminum
24, 22 ga. metallic coated steel
24, 22* ga. 55% Al-Zn alloy coated
steel with acrylic coating
16* oz. copper

Panel Width

16 5/8"

Panel Length

Cut to customer specifications with a minimum of 6'-0", maximum to transportation limitations and/or product and project design considerations

Panel Height

7/8"

Texture

Smooth, Embossed

Finish

Kynar 500® PVDF or Hylar 5000® PVDF

Colors

Choice of 31 standard colors

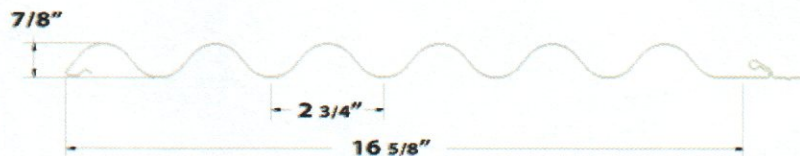
Anodized

Clear, Dark Bronze

Accessories

A complete line of trims available in matching colors, gauge, and finish or as specified

*Subject to minimum quantities and lead time. Inquire for availability.



Corra-Lok™ Design Advantages

Corra-Lok panels have a positive panel-to-panel interlock and can be combined with Metafor, Rigid Wall II, and the Multi-Purpose system for the ability to create interesting patterns and breaks. The fasteners are hidden by the adjacent panel.



Wind-Lok™

Integral lock and seam design guards against wind-driven rain and wind uplift. Positive locking feature makes it virtually impossible for panels to disengage.



1. PRODUCT NAME

CORRA-LOK™ MFC160

2. MANUFACTURER

ATAS INTERNATIONAL, INC.

Website: www.atas.com

Email: info@atas.com

Corporate Headquarters:

Allentown, PA 18106

Phone: (610) 395-8445

Fax: (610) 395-9342

Western Facility:

Mesa, AZ 85204

Phone: (480) 558-7210

Fax: (480) 558-7217

3. PRODUCT DESCRIPTION

Basic Uses:

Corra-Lok is a 16 5/8" wide by 7/8" deep structural panel that provides dramatic shadow lines with its 2 3/4" wide corrugations. Typical applications include walls, equipment screens, mansards and roofing. The system utilizes concealed fasteners to offer uninterrupted vertical or horizontal sight lines.

Composition & Materials:

Standard Offerings: Corra-Lok panels are roll-formed from .032 and .050 aluminum; 22 and 24 gauge metallic coated steel and 24 gauge 55% Al-Zn alloy coated steel with acrylic coating. Special Offerings: 22 gauge 55% Al-Zn alloy coated steel with acrylic coating; .040 aluminum; 16 oz. copper; .0197 classic & terne coated stainless steel may be specified, subject to minimum quantities and lead time.

Sizes:

Corra-Lok panels have a 16 5/8" wide nominal coverage. Panel lengths are cut to customer specifications, with a minimum of 6' and a maximum to transportation limitations and/or product and project design considerations.

Colors & Finishes:

A choice of over 30 stock colors is available in a Kynar 500® PVDF or Hylar 5000® PVDF finish. (Request color chart or chips). Custom colors available. An anodized finish is available in Clear Satin or Dark Bronze. Texture is smooth or embossed. Perforations are available.

4. TECHNICAL DATA

Kynar 500® PVDF or Hylar 5000® PVDF based finishes tested by paint supplier for:

- Dry Film Thickness: ASTM D 1005, ASTM D 1400, ASTM D 4138 or ASTM D 5796

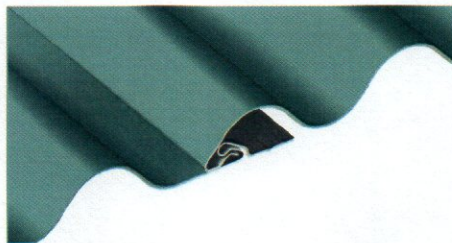
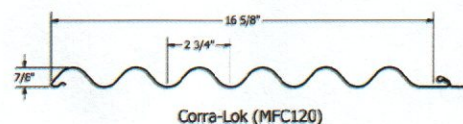
- Specular Gloss: ASTM D 523
- Pencil Hardness: ASTM D 3363
- T-Bend Flexibility: ASTM D 4145
- Mandrel Bend Flexibility: ASTM D 522
- Impact Resistance: ASTM D 2794
- Adhesion: ASTM D 3359
- Water Immersion Resistance: ASTM D 870
- Abrasion Resistance: ASTM D 968
- Acid Resistance: ASTM D 1308
- Acid Rain Resistance (Kesternich): ASTM G 87 or DIN 50018
- Salt Spray: ASTM B 117
- Cyclic Salt Spray: ASTM D 5894 and ASTM D 5487
- Humidity Resistance: ASTM D 2247
- Accelerated Weathering: ASTM D 822 and ASTM G 155, ASTM G 151 or ASTM G 153
- Color Retention, Florida Exposure: ASTM D 2244
- Chalking Resistance: ASTM D 4214
- Cleveland Condensing Cabinet: ASTM D 4585
- Cure Test, MEK Resistance: ASTM D 5402
- Alkali Resistance, Sodium Hydroxide: ASTM D 1308, Procedure 7.2
- Flame Spread Rating: ASTM E 84
- Organic coatings meet requirements of AAMA 2605 when applied to aluminum.

Panel testing/ratings:

- Galvanized Steel: ASTM A 653
- 55% Al-Zn alloy Coated Steel: ASTM A 792
- Aluminum: ASTM B 209
- Copper: ASTM B 370
- Coil Coating: ASTM A 755
- Field Tested and Approved.
- Load Tables available upon request.

5. INSTALLATION

Corra-Lok panels have a positive panel-to-panel interlock. Recommended minimum slope is 4:12. Installation manuals and hands-on training via seminars are available through ATAS. Visit www.atas.com for more information.



6. AVAILABILITY & COST

Availability:

Corra-Lok panels are available through ATAS product distributors. A complete line of related components and trim accessories is available to complete the wall system. In addition, a complete line of rainware and perimeter roof edge trims can be supplied by ATAS to complement the wall system. Flat sheet and/or coil stock is available in matching color for fabrication of related components by the installing contractor.

Cost:

Contact ATAS product distributors for current pricing.

7. WARRANTY

Products coated with a fluoropolymer, Kynar 500® PVDF or Hylar 5000® PVDF finish carry a limited warranty against chalking and fading.

8. MAINTENANCE

Corra-Lok panels are virtually maintenance free. Surface residue may be easily removed by conventional cleaning methods. For painted products, minor scratches should be touched up with a matching paint, available from the manufacturer.

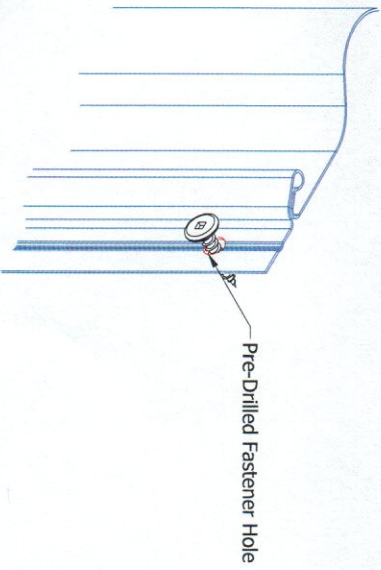
9. TECHNICAL SERVICES

Complete technical information and literature are available at www.atas.com. ATAS will assist with design ideas and shop drawings.

10. FILING SYSTEM


- www.atas.com
- Additional product information is available from the manufacturer upon request.



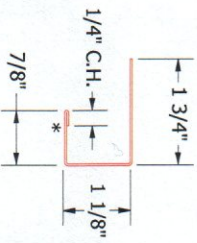
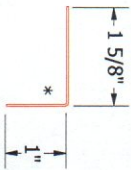
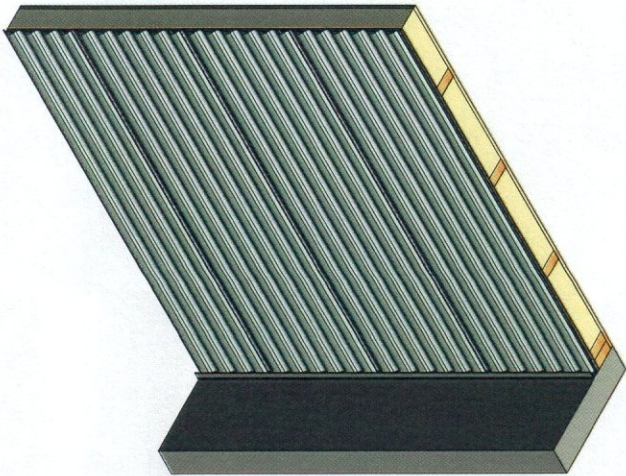
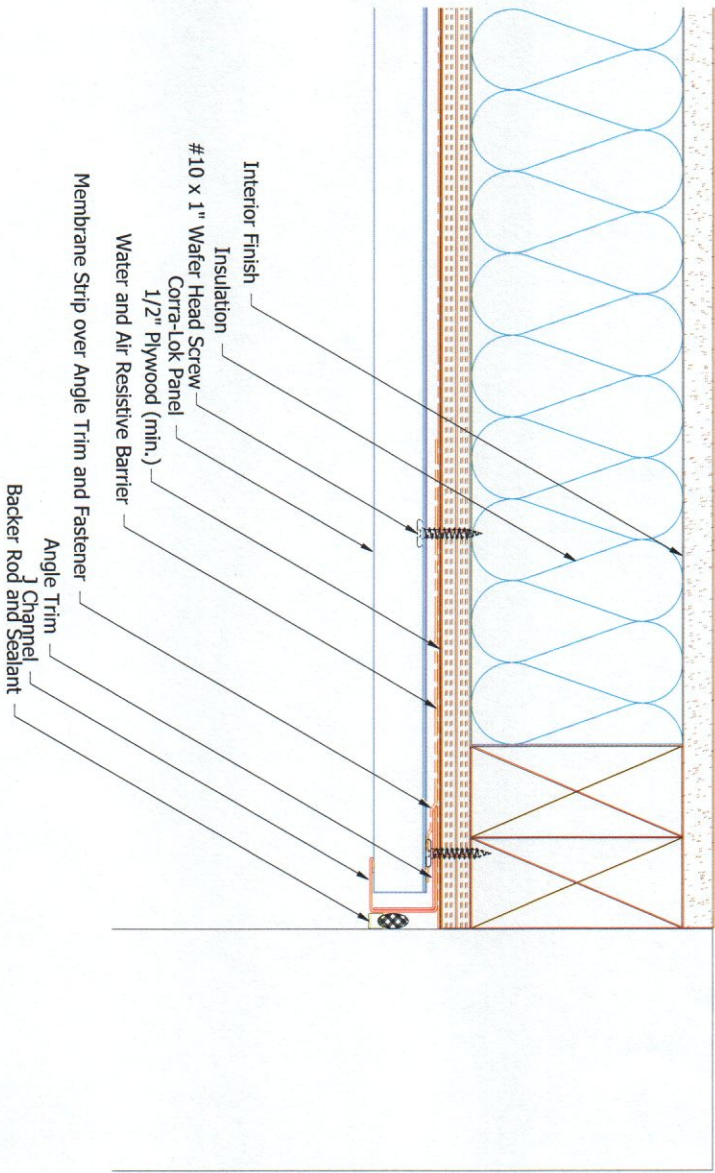


Pre-Drill Fastener Holes for Panels Greater than 20'-0" in Length

[illegible]

		ATLAS INTERNATIONAL, INC Alhambra PA 610-353-8845 Mesa AZ 480-558-7210	
TITLE		Corra-Lok Panel Detail	
DWG. NO.		DATE	
		6/22/2016	
SCALE		DATE	
		7/22/16	
SR. SIZE		SCALE	
B		X:X	

Horizontal Panel



MCA680 - Angle Trim

MCA118 - J Channel

REV.	DATE	DESCRIPTION OF REVISION	BY	APP



ATIS INTERNATIONAL, INC.
Allentown PA
610-395-8445
Hershey PA
480-558-7210

Corra-Lok Endwall Detail

DATE: 6/16/2016
BY: DMS
SCALE: X-X



ATAS International, Inc.


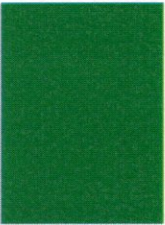

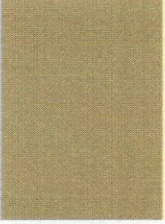

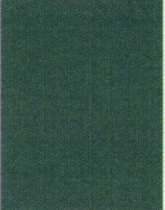
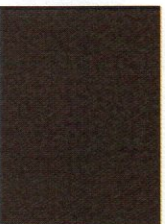
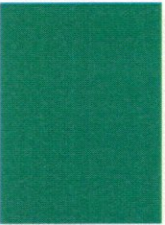


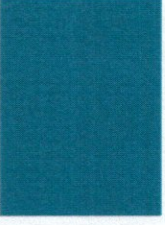
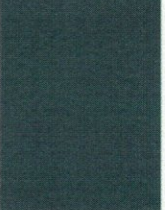
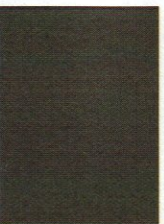
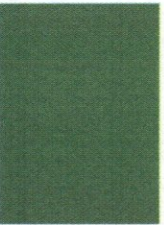

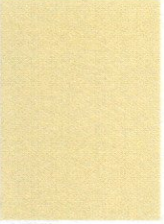

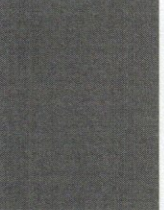

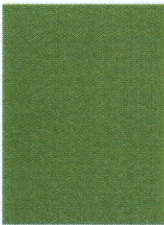

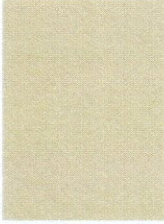


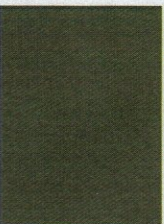

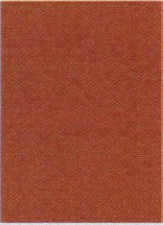
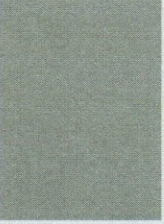

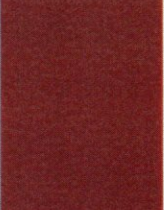
Sustainable Building Envelope Technology

Allentown, PA | Mesa, AZ | Maryville, TN
 800.468.1441 610.395.8445
info@atas.com www.atas.com



STANDARD COLORS (PVDF Finish)

PVDF resin based coatings provide high-performance durability for exterior and interior applications. These coatings are designed to resist fading, chalking, and abrasion. Meets the requirement of AAMA 2605-13 and AAMA 620-02.

	•	Black (02)		•	Forest Green (11)		•	Chocolate Brown (04)		•	Sierra Tan (09)		+	Sandstone (06)		•	Rocky Grey (16)
	+	Classic Bronze (01)		•	Teal (19)		•	Boysenberry (25)		•	Rawhide (15)		•	Regal Blue (18)		•	Charcoal Grey (62)
	+	Medium Bronze (03)		•	Hemlock Green (30)		•	Redwood (07)		•	Concord Cream (05)		•	Slate Blue (21)		▲	Slate Grey (20)
	•	Hartford Green (27)		•	Patina Green (12)		•	Mission Red (08)		•	Almond (36)		•	Siam Blue (14)		■	Dove Grey (13)
		Antique Patina (24)			Champagne (31)			Coppertone (23)		•	Titanium (35)		◆	Silversmith (28)		•	Brite Red (17)

PREMIUM FINISH | (PVDF Finish) PVDF resin based coatings, as noted above, with premium pigmentation to obtain metallic or deep color for desired aesthetics.

Stock Materials

ALL Standard & Premium
Finish Colors are available in:

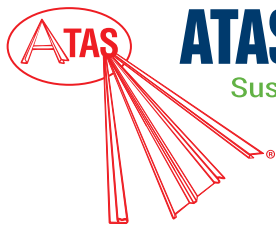
- 24 ga. steel
- .032 aluminum
- .040 aluminum

Additional Stock Materials

Availability Key:

- ◆ 22 ga. steel
- ▲ 22 ga. steel, .050 aluminum
- + 22 ga. steel, .050 & .063 aluminum
- .050 aluminum
- .050 & .063 aluminum

Please inquire for custom materials and colors



1. PRODUCT NAME

FLAT SHEET AND COIL

2. MANUFACTURER

ATAS INTERNATIONAL, INC.

Website: www.atas.com

Email: info@atas.com

Corporate Headquarters:

Allentown, PA 18106

Phone: (610) 395-8445

Western Facility:

Mesa, AZ 85204

3. PRODUCT DESCRIPTION

Aluminum or metallic coated steel with PVDF finish used to produce flat sheets and coils.

Aluminum alloy ASTM B 209 Alloy 3003 H14 or 3105 H24, or **Metallic coated steel** ASTM A 653 structural steel SS 50 (SS 37 for 48" width) with G90 coating or ASTM A 792 Structural Steel grade 50 (grade 37 for 48" width) with AZ50 coating. Materials are pretreated, primed and coated with a full strength 70% PVDF coating system, consisting of nominal 1.0 mil total dry film thickness (.2 mil primer with a .8 mil top coat). Reverse side is coated with a wash coat of .4 to .5 mil dry film thickness. Galvanized materials are pretreated with a high-performance zinc phosphate system.

Masking, a strippable polymer film, can be applied as a protective covering for handling during fabrication and installation of materials, if requested. The polymer masking must be removed immediately after installation and should not be exposed to continued periods of direct sunlight or extreme heat.

Basic Use: Architectural sheet metal applications in general building construction, such as metal roofing, metal walls, mansard applications, fascias, soffits, ceilings, storefronts, copings, gravel stops, specialty accent details, etc.

Materials:

Gauges Available:

Aluminum - .032, .040, .050, .063 and .080 thicknesses.

Metallic coated steel - 29, 24 and 22 gauge.

Sheet Sizes - Up to 60" width by length required.

Texture - Smooth and embossed available.

Limitations:

All ATAS materials are pre-finished and, therefore, care should be taken during fabrication and installation of materials. Fabrication and installation of materials should conform to standards established by the architectural sheet metal community. During the fabrication and/or forming of the materials, proper bend radii must be used. Minor scratches should be touched-up immediately, utilizing an air dry coating furnished by ATAS. For damage other than minor scratches, such as dents, deep abrasions, or scratches that have damaged base materials, the actual unit should be replaced. All metal shavings, chips, and dust must be removed from material immediately.

4. TECHNICAL DATA

Applicable Standards

Aluminum

Aluminum materials conform to ASTM B 209, alloy 3003 H14 or 3105 H14.

Painted aluminum conforms to performance requirements of AAMA 2605.

Finish: 70% PVDF

Color Name & Number		Steel Gauge			Aluminum			
		29	24	22	.032	.040	.050	.063
Classic Bronze	01		•	•	•	•	•	•
Black	02		•		•	•	•	
Medium Bronze	03		•	•	•	•	•	•
Chocolate Brown	04		•		•	•	•	
Concord Cream	05		•		•	•	•	
Sandstone	06		•	•	•	•	•	•
Redwood	07		•		•	•	•	
Mission Red	08		•		•	•	•	
Sierra Tan	09		•		•	•	•	
Ascot White	10		•		•	•	•	•
Forest Green	11		•		•	•	•	
Patina Green	12		•		•	•	•	
Dove Grey	13		•		•	•	•	•
Siam Blue	14		•		•	•	•	
Rawhide	15		•		•	•	•	
Rocky Grey	16		•		•	•	•	
Regal Blue	18		•		•	•	•	
Teal	19		•		•	•	•	
Slate Grey	20	•	•	•	•	•	•	
Slate Blue	21		•		•	•	•	
Boysenberry	25		•		•	•	•	
Bone White	26	•	•	•	•	•	•	•
Hartford Green	27		•		•	•	•	
Char Brown (Low Gloss)	29	•						
Hemlock Green	30		•		•	•	•	
Almond	36		•		•	•	•	
Charcoal Grey	62		•		•	•	•	
Acrylic Coated Galvalume®	97		•					
Mill Finish - Aluminum	99				•	•	•	•
Premium Finish								
Brite Red	17		•		•	•	•	
Coppertone	23		•		•	•	•	
Antique Patina	24		•		•	•	•	
Silversmith	28		•	•	•	•	•	
Champagne	31		•		•	•	•	
Titanium	35		•		•	•	•	
Clear Satin Anodized	70				•	•	•	
Dark Bronze Anodized	71				•	•	•	

• Available Material and Thickness

Non-stock colors and gauges are available with minimum quantities and longer lead time.

Visit ATAS' web site for specialty trend colors in gauges and widths not shown on this chart.

NOTE: Other standard colors may be available in .063 aluminum, .080 aluminum, 29 ga. metallic coated steel, and 22 ga. metallic coated steel; subject to minimum quantity, coating surcharge and longer lead time.

Metallic Coated Steel

Both Galvanized Steel and 55% Al-Zn alloy coated Steel meet general requirements of the construction industry. Galvanized Steel materials conform to ASTM A 653, with a G90 coating. 55% Al-Zn alloy coated Steel materials conform to ASTM A 792, with an AZ50 coating. Materials are structural steel grade 50 except for 29 ga. thickness and 48 inch wide sheets, which are grade 37.

PVDF Finish Coating shall meet the following performance criteria:

Property	Result-Aluminum	Result-Steel	Test Designation
60° Specular Gloss	25-40	25-40	ASTM D 523
Pencil Hardness	HB-2H	HB-2H	ASTM D 3363 NCCA 11-12
Flexibility: T-Bend Mandrel	2-T (1) No cracking	2-T (1) No cracking	ASTM D 4145, (NCCA 11-19) No cracking or tape removal of film ASTM D 522 180 bend around 1/8" mandrel
Adhesion: Impact Reverse Impact	Acceptable (2) Acceptable (2)	Acceptable (2) Acceptable (2)	ASTM D 3359, (NCCA 11-5) ASTM D 2794, (NCCA 11-6)
Abrasion: Falling Sand Transit	50 liters minimum No disfigurement	50 liters minimum No disfigurement	ASTM D 968 Method A
Acid Pollutants	No effect No effect <5 u. color change HunterΔE units	No effect No effect <5 u. color change Hunter ΔE units	ASTM D 1308, Proc. 6.2 10% Muriatic acid, 15 min. ASTM D 1308, Proc. 6.2 20% sulfuric acid, 18 hrs. AAMA 2605, TEST # 7.7.3.3 70% nitric acid vapors, 30 min.
Acid Rain Test	10 cycles minimum No color change	10 cycles minimum No color change	KESTERNICH Sulfur dioxide cyclic test
Accelerated Tests			
Weatherometer, 3000 hrs. exposure	Acceptable (3)	Acceptable (3)	ASTM D 822, G 155 Weatherometer
Dew Cycle Weatherometer, 500 hrs. exposure	Acceptable (3)	Acceptable (3)	ASTM D 3361
Humidity, 100% relative humidity @ 95°F.	Passes 3000 hrs. (4)	Passes 1500 hrs. (4)	ASTM D 2247
Salt Spray, 5 % sat fog @ 95°F.	Passes 3000 hrs. (5)	Passes 1000 hrs. (5)	ASTM B 117 (NCCA 111-2)
Cyclic Salt fog/UV Exposure Test	Passes 2016 hrs. (6)	Passes 2016 hrs. (6)	ASTM D 5894

Notes:

- (1) Flexible to point of metal rupture without rupture of coating.
- (2) No loss of adhesion between coating and substrate to point of metal rupture with 1/16" cross-hatch scribe pattern through coating to bare metal.
- (3) No objectionable chalking, color change or blistering.
- (4) No No. 8 size blisters.

- (5) Aluminum: none or few No. 8 size blisters, not more than 1/16" avg. creep or tape off scribe.
Metallic Coated Steel: none or few No. 8 size blisters, not more than 1/8" avg. creep or tape off scribe.
- (6) No blistering and no rating less than 5 per ASTM D 714; no rusting per ASTM D 610; Rating of 6, less than 1.5 mm creepage from scribe per ASTM D 1654.

5. INSTALLATION

Installation shall be in accordance with standards established by the Architectural Sheet Metal Community. Installer to comply with all manufacturer's installation instructions as per project requirements. Care should be taken during handling and fabrication of materials to prevent bending, twisting, abrasion, scratching, denting, etc. All cutting tools should be kept sharp, properly dressed and aligned. If protective masking is utilized, it must be removed immediately after installation.

6. AVAILABILITY AND COST

Availability: Normal orders for in stock items and colors are ready for shipment within a 48 to 72 hour period. Custom fabricated items are shipped within 7 to 10 working days. Requests for custom colors need longer lead time. Products are sold through Dealer/Distributor outlets.

Materials: Shipped F.O.B. ATAS Plant.

Cost: For specific cost and availability contact ATAS.

7. WARRANTY

Products coated with a fluoropolymer, 70% PVDF finish carry a limited warranty against chalking and fading. The product is to be used as it is intended.

8. MAINTENANCE

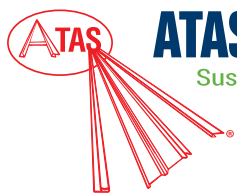
ATAS coated materials are non-staining and require limited maintenance. Any surface residue is easily removed with conventional cleaning solvents or detergents. For painted products, minor scratches should be touched up with an air dry touch-up coating of the same color. Conventional caulking compounds and sealants compatible with the ATAS finish are acceptable for use in conjunction with the ATAS coated materials.

9. TECHNICAL SERVICES

Complete technical information and literature are available at www.atas.com. ATAS will assist with design ideas and shop drawings.

10. FILING SYSTEM

- www.atas.com
- Additional product information is available from the manufacturer upon request.



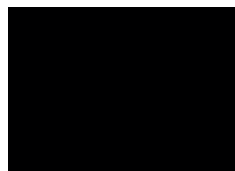
ATAS International, Inc.

Sustainable Building Envelope Technology

Allentown, PA | Mesa, AZ
800.468.1441
info@atas.com | www.atas.com



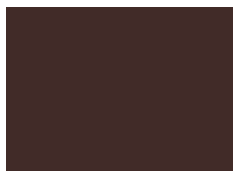
STOCK COLORS (70% PVDF Finish) | 70% PVDF resin based coatings provide high-performance durability for exterior and interior applications. These coatings are designed to resist fading, chalking, and abrasion. Meets the requirement of AAMA 2605-13 and AAMA 620-02.



Black (02)



Forest Green (11)



Chocolate Brown (04)



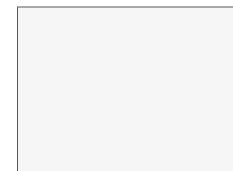
Sierra Tan (09)



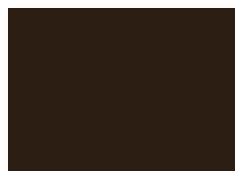
Sandstone (06)



Rocky Grey (16)



Ascot White (10)



Classic Bronze (01)



Teal (19)



Boysenberry (25)



Rawhide (15)



Regal Blue (18)



Charcoal Grey (62)



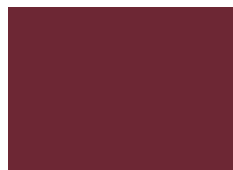
Bone White (26)



Medium Bronze (03)



Hemlock Green (30)



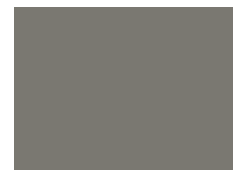
Redwood (07)



Concord Cream (05)



Slate Blue (21)



Slate Grey (20)



Hartford Green (27)



Patina Green (12)



Mission Red (08)



Almond (36)



Siam Blue (14)

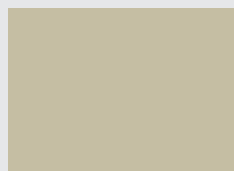


Dove Grey (13)

PREMIUM FINISH (70% PVDF Finish) | PVDF resin based coatings, as noted above, with premium pigmentation to obtain metallic or deep color for desired aesthetics.



Antique Patina (24)



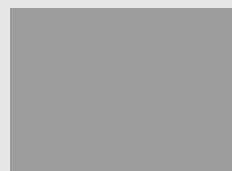
Champagne (31)



Coppertone (23)



Titanium (35)



Silversmith (28)



Brite Red (17)

Stock Materials

ALL Standard & Premium Finish Colors are available in:

- 24 ga. steel
- .032 aluminum
- .040 aluminum

Additional Stock Materials Availability

Key:

- ◆ 22 ga. steel
- ▲ 22 ga. steel, .050 aluminum
- ✦ 22 ga. steel, .050 & .063 aluminum
- .050 aluminum
- .050 & .063 aluminum

Please inquire for custom materials and colors.



A leading manufacturer of sustainable building envelope technology, ATAS utilizes cool pigment paint on many color offerings. Our products reflect infrared radiation, which results in cooler surface temperatures, and maximum fade resistance.

Many of the ATAS products meet the qualifications for potential LEED credits, CRRC ratings and ENERGY STAR certification. See ATAS website for specific SRI values and certifications.

70% PVDF finish carries a limited warranty against fading and chalking. ATAS coated materials are non-staining and virtually maintenance free. Any surface residue is easily removed with conventional cleaning solutions or detergents.

For complete selection of additional color offerings, visit www.atas.com/COLORS

For current SRI values and agency listings, refer to our Color and Material Reference Guide: www.atas.com/SRI

GALVALUME® is an internationally recognized trademark of BIEC International Inc., and some of its licensed producers. Stainless steel products provided by ROOFINOX®. Colors are as close to the actual colors as modern printing allows. Metal color chips available on request (this is a requirement for all premium colors), and should be used for final color selection. If you have requirements or preference for colors or finishes other than shown, contact ATAS. Color availability varies by material, gauge and profile. ATAS reserves the right to modify, eliminate and/or change its products without prior notification. All colors are produced under stringent guidelines and tolerances that are identified within the coated metal industry. Batch to batch variations may occur within these established industry tolerances. Care should be exercised by customer when mixing lots. Contact ATAS for more information.

LAMINATES*

ATAS International, Inc. offers five laminate patterns: four wood grain and one stacked stone. Our laminates are UV stable for exterior wall applications.



Cherry (81)



Oak (82)



Dark Teak (83)



Medium Teak (84)



Stacked Stone (85)

OXIDE SERIES*

Made to look like weathered steel with a rust-like appearance, you can combine the aesthetic appeal of aged metal with the advantages of brand new metal cladding with a 70% PVDF finish.



Copper Brown (42)



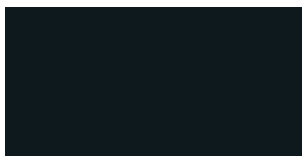
Tarnished Red (47)

NATURAL METALS

Due to their beauty, durability and time-proven performance, natural metals are a preferred material used in architecture. Natural metals will weather and patina naturally over time, adding character and aesthetic appeal to any building design. In addition to natural metals, ATAS offers Acrylic Coated Galvalume®, and anodized aluminum as standard available materials.



Clear Satin Anodized (70)



Dark Bronze Anodized (71)



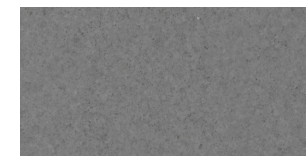
Acrylic Coated Galvalume® (97)



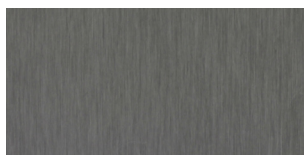
Copper (49)*



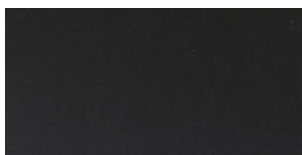
Classic Stainless Steel (40) *



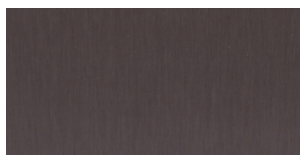
Terne Coated Stainless Steel (41)*



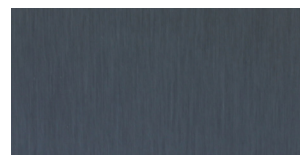
Grey Zinc (91)*



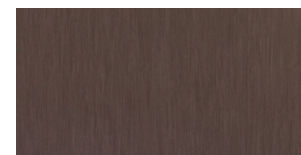
Dark Zinc (92) *



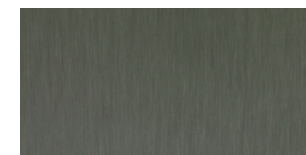
Brown Zinc (89) *



Blue Zinc (94)*



Red Zinc (95) *



Green Zinc (96) *

* Special material. Pricing and availability dependent upon project specifics. Color chips available upon request.

OW1305 – AVATAR™



Type:

Project:

VisaLighting.com/products/Avatar

Order Code:

OW1305

MODEL

A SOURCE

MVOLT

VOLTAGE

B FRAME

C ACCENT BAR AND END CAP

D OPTION(S)

Finishes

Fill in shaded boxes using information listed below



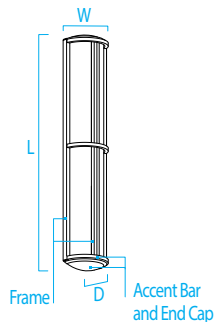
The options available in this series provide a variety of visual compositions; this rugged die-cast and extruded fixture stands up to the elements.

DIMENSIONS

Depth is measured from wall to front of fixture

L = Length D = Depth W = Width

L	36-1/8"	(918 mm)
D	4"	(102 mm)
W	7-1/4"	(184 mm)



A SOURCE (Select one) and VOLTAGE

MVOLT fixture accepts 120 through 277 input voltage
LED sources are 83CRI, within 3-step MacAdam and are dimmable 0-10V to 1%

LED Sources	CCT	Delivered Lumens	Power (Watts)	Voltage
• L30K-L	3000K	1600	19	MVOLT
• L35K-L	3500K			
• L40K-L	4000K	1700		
• L30K-H	3000K	2400	29	
• L35K-H	3500K			
• L40K-H	4000K	2500		

FINISHES (Select one B Frame Finish and one C Accent Bar and End Cap Finish)

See page 2 for color chart

Powder Coat Painted Finishes (Standard) for Frame or Accent Bar and End Cap

AG7038 Agate Grey	CVBL Cove Blue	GW9002 Grey White	PB1035 Pearl Beige
BMAT Bronze Matte	CW9001 Cream	HTHR Heather	RUST Rust
BRNZ Bronze	GLIM Glimmer	JB9005 Jet Black	SUNG Sungold
BSIL Blade Silver	GSIL Graphite Silver	OBRZ Old Bronze	TW9016 Traffic White

Metals (Premium) for Accent Bar and End Cap only

BSS Brushed Stainless Steel

PSS Polished Stainless Steel



D OPTIONS (Multiple Selections Allowed)

⚠ Option availability may be interdependent with Voltage, Source or Other Options

- HM** Horizontal mount (vertical is standard)
XPS Express 10 day shipping. Items marked with a bullet (•) are not available with XPS



ADA



XPS



ETL Listed

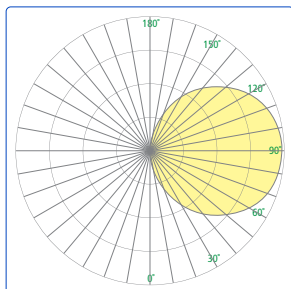


5 Year Warranty

OW1305 – AVATAR



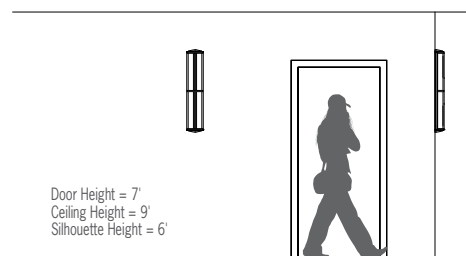
Photometrics



Technical Information

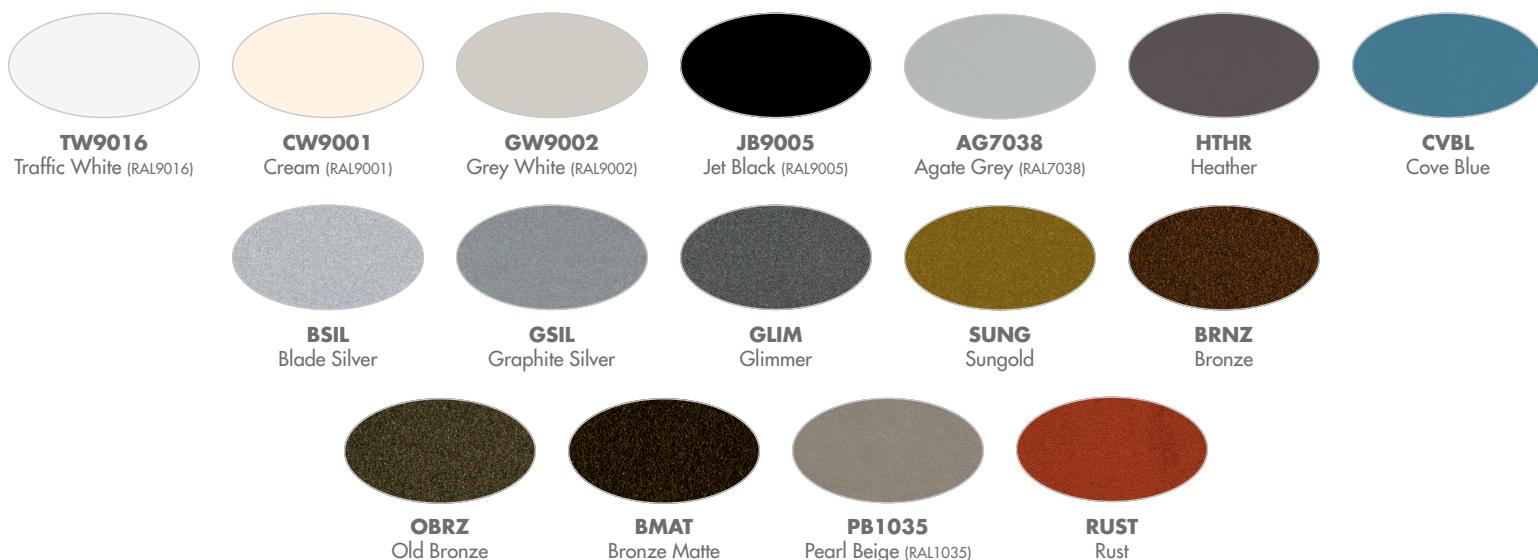
- Modular design for replacement of LED source and integral driver
- Vertical mounting standard (horizontal mounting optional)
- Mounts to standard electrical junction box (by others) and wall with provided hardware
- Removable cam-action hinged frame for ease of maintenance
- Extruded aluminum backplate and center accent, die-cast end caps. Solid metal or die cast accent.
- Sealed and gasketed construction
- High impact white acrylic diffuser
 - ♦ F1 rated, UV stable
 - ♦ UL-94 HB Flame Class rated
- No VOC powder coat paint or stainless steel finish
- ETL listed for wet location mounting 4' above grade

Relative Scale Drawing



Specify color code when ordering. For accurate color matching, individual paint and finish samples are [available upon request](#).
For additional information see VisaLighting.com/materials-finishes

Painted Finishes (Standard)



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HVAC ABBREVIATIONS

AFF	= ABOVE FINISHED FLOOR	LD	= LINEAR DIFFUSER
AMP	= AMPERE	LPC	= LOW PRESSURE CONDENSATE
APD	= AIR PRESSURE DROP	LPS	= LOW PRESSURE STEAM
ATC	= AUTOMATIC TEMPERATURE CONTROL	LRA	= LOCKED ROTOR AMPS
AV	= AIRVENT	LVG	= LEAVING
BTU	= BRITISH THERMAL UNIT	LWT	= LEAVING WATER TEMPERATURE
BTUH	= BTU PER HOUR	MBH	= THOUSAND BTUH
CFM	= CUBIC FEET PER MINUTE	NTS	= NOT TO SCALE
CO	= CLEAN OUT	OA	= OUTSIDE AIR
DB	= DRY BULB	PH	= PHASE (ELECTRICAL)
DEG	= DEGREE	R	= RETURN
DIA	= DIAMETER	RA	= RETURN AIR
DIFF	= DIFFERENCE OR DELTA	RG	= RETURN GRILLE
DN	= DOWN	RR	= RETURN AIR REGISTER
DW	= DISHWASHER	RLA	= RUNNING LOAD AMPS
EA	= EACH	RPM	= REVOLUTIONS PER MINUTE
EAT	= ENTERING AIR TEMPERATURE	SA	= SUPPLY AIR
ESP	= EXTERNAL STATIC PRESSURE	SD	= SUPPLY AIR DIFFUSER
EWI	= ENTERING WATER TEMPERATURE	SEN	= SENSIBLE
EXIST'G	= EXISTING	SP	= STATIC PRESSURE
F	= FAHRENHEIT	SR	= SUPPLY REGISTER
FC	= FLEXIBLE CONNECTOR	TA	= TRANSFER AIR
FPM	= FEET PER MINUTE	TR	= TRANSFER REGISTER
FPS	= FEET PER SECOND	TSP	= TOTAL STATIC PRESSURE
FT	= FEET	TYP	= TYPICAL
FTR	= FIN TUBE RADIATION	VAV	= VARIABLE AIR VOLUME TERMINAL UNIT
GA	= GAGE	VD	= MANUAL VOLUME DAMPER
HP	= HORSEPOWER	W	= WATT OR WIDE
HWR	= HOT WATER RETURN	WB	= WET BULB
HWS	= HOT WATER SUPPLY	WC	= WATER COLUMN
HZ	= FREQUENCY (CYCLES PER SECOND)	WG	= WATER GAUGE
IN	= INCH		
KH	= KITCHEN HOOD		
LAT	= LATENT OR LEAVING AIR TEMPERATURE		

HVAC LEGEND

	SUPPLY/OUTSIDE AIR DUCT UP		SUPPLY DIFFUSER (ARROWS INDICATE THROW DIRECTIONS)
	SUPPLY/OUTSIDE AIR DUCT DOWN		EXHAUST ON RETURN REGISTER
	RETURN/EXHAUST DUCT UP		STEAM TRAP
	RETURN/EXHAUST DUCT DOWN		GATE VALVE
	RECTANGULAR DUCT ELBOW WITH TURNING VANES		COMBINATION BALANCING/SHUT-OFF VALVE
	STANDARD BRANCH, SUPPLY OR RETURN, NO SPLITTER		TWO-WAY VALVE CONTROL VALVE
	DUCT TRANSITION		STRAINER
	RECTANGULAR TO ROUND DUCT TRANSITION		UNION
	MANUAL VOLUME DAMPER		HOSE END DRAIN VALVE
	FIRE DAMPER		MANUAL AIR VENT
	PIPE TURNING UP		CONNECT TO EXISTING
	PIPE TURNING DOWN		THERMOSTAT
	GLYCOL WATER SUPPLY		REMOTE SENSOR
	GLYCOL WATER RETURN		
	DRAIN PIPING		
	DIRECTION OF FLOW IN PIPE		
	CONCENTRIC REDUCER		

HVAC GENERAL NOTES

- ALL PIPING AND DUCTWORK SHOWN IS DIAGRAMMATIC ONLY. DETERMINE THE EXACT LOCATION IN THE FIELD.
- REFER TO ARCHITECTURAL DRAWINGS FOR NEW CONSTRUCTION DETAILS.
- REVIEW ALL DRAWINGS BEFORE STARTING WORK TO BECOME FAMILIAR WITH THE DETAILS OF CONSTRUCTION, AND COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS.
- OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES RELATED TO SAME.
- PROVIDE ALL NECESSARY PIPING, EQUIPMENT AND SUPPORTS AS WELL AS ANY ADDITIONAL EQUIPMENT, ETC. NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.
- PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.
- INSTALL ALL WORK IN ACCORDANCE WITH STATE AND LOCAL CODES.
- DO NOT SCALE THESE DRAWINGS. TAKE ALL MEASUREMENTS IN THE FIELD IN COORDINATION WITH ALL EQUIPMENT AS APPROVED AND WITH ALL OTHER TRADES.
- ALL DUCTWORK SHALL BE INSTALLED ON ACCORDANCE WITH THE LATEST EDITION OF SMACNA.
- ALL ROTATING EQUIPMENT SHALL HAVE FLEXIBLE PIPE ON DUCT CONNECTIONS AND APPROVED VIBRATION ISOLATORS.
- PROVIDE AIRTIGHT ACCESS DOOR FOR INSPECTION OF FIRE DAMPERS, FILTERS, COILS.
- CONTRACTOR SHALL VERIFY DUCT, PIPING AND EQUIPMENT LOCATIONS FOR INTERFERENCES BEFORE INSTALLATION.
- COORDINATE AIR OUTLET AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- PROVIDE VERTICAL SUPPORTS FOR PIPING AT THE MAXIMUM INTERVALS INDICATED IN THE SPECIFICATIONS.

HVAC SPECIFICATIONS

PART 1 - GENERAL

1.01 WORK INCLUDED:

- THE WORK UNDER THIS SECTION SHALL INCLUDE THE FURNISHING OF ALL MATERIALS, LABOR, EQUIPMENT AND SUPPLIES AND THE PERFORMANCE OF ALL OPERATIONS TO PROVIDE COMPLETE WORKING SYSTEMS AS INDICATED ON THE CONTRACT DRAWINGS.
 - FURNISH, SET UP AND MAINTAIN ALL DERRICKS, HOISTING MACHINERY, SCAFFOLDS, STAGING AND PLANKING AS REQUIRED FOR THE WORK.
- 1.02 CODES, ORDINANCES, AND PERMITS: INSTALLATION OF SYSTEMS AND EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE DONE IN STRICT ACCORDANCE WITH CONNECTICUT DEPARTMENT OF PUBLIC SAFETY CODES, CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION, 2018 CONNECTICUT STATE BUILDING CODE AND TOWN REGULATIONS HAVING JURISDICTION.
- 1.04 RECORD DRAWINGS: FURNISH UPON COMPLETION OF ALL WORK, RECORD DRAWINGS OF THE WORK OF THIS SECTION.
- 1.05 SHOP DRAWINGS: PROVIDE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL OF ALL EQUIPMENT, MATERIALS SPECIFIED AND AUTOMATIC TEMPERATURE CONTROLS.
- 1.06 OPERATING AND MAINTENANCE INSTRUCTIONS: FURNISH UPON COMPLETION OF ALL WORK, OPERATION AND MAINTENANCE DATA FOR ALL EQUIPMENT PROVIDED UNDER THIS SECTION.
- 1.07 CUTTING AND PATCHING: ALL CUTTING AND PATCHING NECESSARY FOR THE PROPER INSTALLATION OF WORK TO BE PERFORMED UNDER THIS SECTION AND SUBSECTIONS SHALL BE PERFORMED BY THE CONTRACTOR.
- 1.08 SEISMIC RESTRAINT REQUIREMENTS: ALL WORK INDICATED ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF THE 2018 CONNECTICUT STATE BUILDING CODE, AND REFERENCED REQUIREMENTS OF IMC AND NFPA.

PART 2 - PRODUCTS

2.01 SHEET METAL WORK

- CALVANIZED SHEET METAL - ALL SUPPLY, RETURN, OUTDOOR, AND EXHAUST (SA, RA, OA, EA)
 - ALL DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA. ALL DUCTWORK SHALL BE GALVANIZED STEEL, SEAL ALL LOW PRESSURE DUCT JOINTS (CLASS B). EXCESS SEALANT MUST BE REMOVED IMMEDIATELY TO PROVIDE A NEAT APPEARANCE.
 - ALL LOW PRESSURE DUCTS SHALL BE FABRICATED FOR 2 INCHES WATER GAUGE PRESSURE.
 - PROVIDE 2" THICK ACOUSTIC LINING FOR ALL RETURN AIR DUCTWORK.
- GREASE EXHAUST DUCT (KE)
 - INTERIOR DUCTWORK SHALL BE CONSTRUCTED OF MINIMUM 16 GAUGE BLACK STEEL OR 18 GAUGE STAINLESS STEEL. ALL EXTERNAL JOINTS AND SEAMS SHALL BE WELDED LIQUID-TIGHT. DUCT CONNECTION TO THE HOOD SHALL BE WELDED LIQUID-TIGHT.
 - PROVIDE HORIZONTAL CLEANOUTS IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS MINIMUM EVERY 12 FEET AND AT EACH CHANGE IN DIRECTION.
 - PROVIDE GREASE COLLECTOR AT BASE OF VERTICAL RISE TO ROOF EXHAUST FAN IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
 - DUCTWORK SHALL BE INSTALLED WITH A 1/4:12 (2X) SLOPE IF 75 FEET HORIZONTAL RUN OR LESS; 1:12 (8.3%) SLOPE IF OVER 75 FEET.
- GREASE DUCT TEST
 - PRIOR TO THE USE OR CONCEALMENT OF ANY PORTION OF A GREASE DUCT SYSTEM, A LEAKAGE TEST SHALL BE PERFORMED. DUCTS SHALL BE CONSIDERED TO BE CONCEALED WHERE INSTALLED IN SHAFTS OR COVERED BY COATINGS OR WRAPS THAT PREVENT THE DUCTWORK FROM BEING VISUALLY INSPECTED ON ALL SIDES. THE PERMIT HOLDER SHALL BE RESPONSIBLE TO PROVIDE THE NECESSARY EQUIPMENT AND PERFORM THE GREASE DUCT LEAKAGE TEST. A LIGHT TEST SHALL BE PERFORMED TO DETERMINE THAT ALL WELDED AND BRAZED JOINTS ARE LIQUID TIGHT.
 - A LIGHT TEST SHALL BE PERFORMED BY PASSING A LAMP HAVING A POWER RATING OF NOT LESS THAN 100 WATTS THROUGH THE ENTIRE SECTION OF DUCTWORK TO BE TESTED. THE LAMP SHALL BE OPEN SO AS TO EMIT LIGHT EQUALLY IN ALL DIRECTIONS PERPENDICULAR TO THE DUCT WALLS. A TEST SHALL BE PERFORMED FOR THE ENTIRE DUCT SYSTEM, INCLUDING THE HOOD-TO-DUCT CONNECTION. THE DUCT WORK SHALL BE PERMITTED TO BE TESTED IN SECTIONS, PROVIDED THAT EVERY JOINT IS TESTED. FOR LISTED FACTORY-BUILT GREASE DUCTS, THIS TEST SHALL BE LIMITED TO DUCT JOINTS ASSEMBLED IN THE FIELD AND SHALL EXCLUDE FACTORY WELDS.
- DISHWASHER EXHAUST DUCT (DE)
 - DUCTWORK SHALL BE CONSTRUCTED OF 18 GAUGE STAINLESS STEEL. ALL EXTERNAL JOINTS AND SEAMS SHALL BE WELDED LIQUID-TIGHT. DUCT CONNECTION TO THE HOOD SHALL BE WELDED LIQUID-TIGHT

2.02 DUCTWORK ACCESSORIES

- MANUAL VOLUME DAMPERS: MANUAL VOLUME DAMPERS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS AND AT EVERY BRANCH TAKE OFF FROM THE MAIN DUCT.
- FIRE DAMPERS: PROVIDE AND INSTALL FIRE DAMPERS AT ALL FIRE WALLS AND FLOORS, WHERE REQUIRED BY CODE AND AS INDICATED. FIRE DAMPER CONSTRUCTION AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE NFPA 90A, AND SHALL BE UL LABELED, TESTED AND INSPECTED IN ACCORDANCE WITH UL 555. AN ACCESS DOOR SHALL BE PROVIDED AT EACH DAMPER TO SERVICE AND INSPECT THE FUSIBLE LINK. PROVIDE FIRE DAMPERS IN EACH APARTMENT UNIT WHERE THE SUPPLY AIR DUCTWORK PENETRATES THE CEILING/FLOOR ASSEMBLY.
- FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET IN TOTAL LENGTH AND SHALL HAVE A MINIMUM INSULATING VALUE OF R-5.

2.03 ACOUSTIC LINING

- PROVIDE 2" THICK ACOUSTIC LINING ON ALL RETURN AIR DUCTWORK.
- PROVIDE 2" THICK ACOUSTIC LINING ON SUPPLY AIR DUCTWORK FOR 10' AFTER ROOFTOP UNITS.

2.04 AIR OUTLETS

PROVIDE ALL AIR OUTLETS AS SHOWN ON PLANS AND SPECIFIED UNDER THIS SECTION. COLORS SHALL BE SELECTED BY THE ARCHITECT.

- CEILING DIFFUSERS: SQUARE CONE DIFFUSER, FIXED AIR PATTERN (3 CONE) FURNISH AND INSTALL PRICE MODEL SCD STEEL CEILING DIFFUSERS OF SIZES AND MOUNTING TYPES DESIGNATED BY THE PLANS AND AIR DISTRIBUTION SCHEDULE. DIFFUSERS SHALL CONSIST OF A PRECISION FORMED BACK CONE OF ONE PIECE SEAMLESS CONSTRUCTION WHICH INCORPORATES A ROUND INLET COLLAR OF SUFFICIENT LENGTH FOR CONNECTING RIGID OR FLEXIBLE DUCT. THE DIFFUSER SHALL INTEGRATE WITH ALL DUCT SIZES SHOWN ON THE PLANS WITHOUT AFFECTING THE FACE SIZE AND APPEARANCE OF THE UNIT. AN INNER CONE ASSEMBLY SHALL CONSIST OF 3 CONES WHICH DROP BELOW THE CEILING PLANE TO ASSURE OPTIMAL VAV AIR DIFFUSION PERFORMANCE. THE INNER CONE ASSEMBLY SHALL BE COMPLETELY REMOVABLE FROM THE DIFFUSER FACE TO ALLOW FULL ACCESS TO ANY DAMPERS OR OTHER DUCTWORK COMPONENTS LOCATED NEAR THE DIFFUSER NECK. FINISH SHALL BE B12 WHITE POWDER COAT.
- CEILING DIFFUSERS (SD): FURNISH AND INSTALL PRICE MODEL SMD STEEL, ALD ALUMINUM DIRECTIONAL LOUVERED FACE DIFFUSERS OF THE SIZES AND MOUNTING TYPES SHOWN ON THE PLANS AND AIR DIS-TRIBUTION SCHEDULE. DIFFUSERS SHALL CONSIST OF AN OUTER FRAME ASSEMBLY, WHICH FACILITATES MOUNTING IN THE APPLICATION SHOWN, A COLLAR THAT ALLOWS CONNECTION TO THE SQUARE (OR RECTANGULAR) DUCT SIZE INDICATED SHALL BE AN INTEGRAL PART OF THE FRAME ASSEMBLY. AN INNER CORE ASSEMBLY CONSISTING OF FIXED LOUVERS CAPABLE OF PRODUCING THE AIR FLOW DISCHARGE PATTERN INDICATED ON THE PLANS SHALL BE FULLY REMOVABLE FROM THE INSTALLED DIFFUSER FRAME FOR ACCESS TO ANY DAMPERS OR OTHER DUCTWORK COMPONENTS LOCATED IN OR NEAR THE DIFFUSER NECK. THE INNER CORE ASSEMBLIES SHALL BE IDENTICALLY CON-STRUCTED SO THAT DIRECTIONAL CORE ASSEM-BLIES PROVIDING DIFFERENT AIR FLOW DISCHARGE PATTERNS MAY BE INTERCHANGED BETWEEN FRAMES, PROVIDED THE FRAME DUCT CON-NECTIONS ARE OF THE SAME SIZE. FINISH SHALL BE B12 WHITE POWDER COAT. PAINT FINISH SHALL PASS 500 HOURS OF SALT SPRAY EXPOSURE WITH NO MEASURABLE CREEP IN ACCORDANCE WITH ASTM D1654 AND 1000 HOURS WITH NO RUSTING OR BLISTERING AS PER ASTM D610 AND ASTM D714.
- RETURN/EXHAUST REGISTERS (RR,ER): FURNISH AND INSTALL PRICE MODEL 530 STEEL RETURN GRILLES OF THE SIZES AND MOUNTING TYPES INDICATED ON THE PLANS. GRILLES SHALL BE 45 DEGREE DEFLECTION FIXED LOUVER TYPE WITH BLADES SPACED 3/4" ON CENTER. THE BLADES SHALL RUN PARALLEL TO THE LONG DIMENSION OF THE GRILLE. THE GRILLE SHALL BE FINISHED IN B12 WHITE POWDER COAT.

2.05 INSULATION

- KITCHEN EXHAUST DUCTWORK
 - GREASE DUCT SHALL BE INSULATED WITH INSULATION THAT PROVIDES ZERO CLEARANCE AND 2-HR FIRE RATING; TYPICAL OF Fyre WRAP MAX 2.0.
- SUPPLY, RETURN, EXHAUST, AND OUTDOOR AIR DUCTWORK AND DISHWASHER EXHAUST DUCTWORK
 - INSULATE SUPPLY, RETURN, EXHAUST, OUTDOOR AIR DUCTWORK AND DISHWASHER EXHAUST DUCTWORK WITH 2" THICK FIBERGLASS DUCT WRAP WITH FOIL FACE. INSULATION VALUE SHALL BE A MINIMUM OF R-6.0.
- RETURN DUCTWORK
 - PROVIDE 2" THICK ACOUSTIC LINING ON ALL RETURN AIR DUCTWORK.
- REFRIGERANT PIPE
 - INSULATE REFRIGERANT PIPE WITH 1" WALL THICKNESS ELASTOMERIC PIPE INSULATION.

2.06 EQUIPMENT

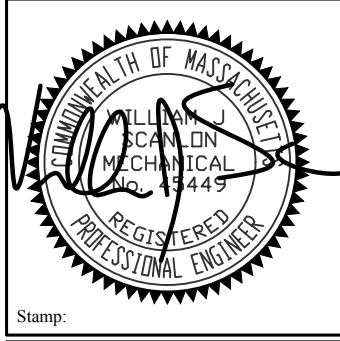
- PROVIDE ALL EQUIPMENT WITH ACCESSORIES AS SCHEDULED.

2.07 AUTOMATIC TEMPERATURE CONTROL

- PROVIDE CONTROL COMPONENTS AND LOW VOLTAGE WIRING FOR EACH SYSTEM AS REQUIRED FOR THE SEQUENCE OF OPERATION INDICATED. PROVIDE ALL CONTROL COMPONENTS FOR NEW SEQUENCES OF CONTROL INCLUDING REQUIRED INTERCONNECTING WIRING AND APPURTENANCES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
- PROVIDE AND INSTALL A CENTRAL CONTROLLER EQUAL TO TRANE TRACER SC TO COMMUNICATE WITH ALL TEMPERATURE SENSORS AND UNITARY CONTROLLERS. THE CONTROLLER SHALL BE AN OPEN PROTOCOL WITH BACNET AND LOWWORKS COMPATIBILITY.
- THE CONTROL SYSTEM SHALL BE WEB-ENABLED AND HAVE THE ABILITY TO VIEW THE SPACE TEMPERATURES AS WELL AS PROGRAM EACH ZONE TEMPERATURE AND SCHEDULE SEPARATELY FROM ANY DEVICE WITH A WEB BROWSER.
- PROVIDE AND INSTALL A SPACE MOUNTED SENSOR FOR EACH ZONE AS INDICATED ON THE PLANS. THE SPACE SENSORS SHALL HAVE THE ABILITY TO BE HARD-WIRED OR WIRELESS.

PART 3 - EXECUTION

- 3.01 GENERAL: INSTALL ALL ITEMS SPECIFIED UNDER PART 2 - PRODUCTS, ACCORDING TO THE APPLICABLE MANUFACTURER'S RECOMMENDATIONS AND SHOP DRAWINGS, THE DETAILS SHOWN ON THE DRAWINGS AND AS SPECIFIED UNDER THIS SECTION. PROVIDE ALL REQUIRED HANGERS AND SUPPORTS.



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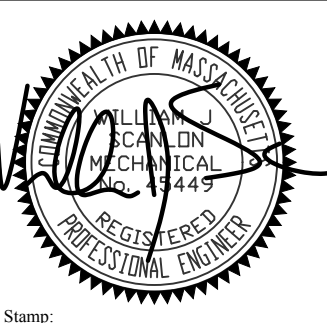
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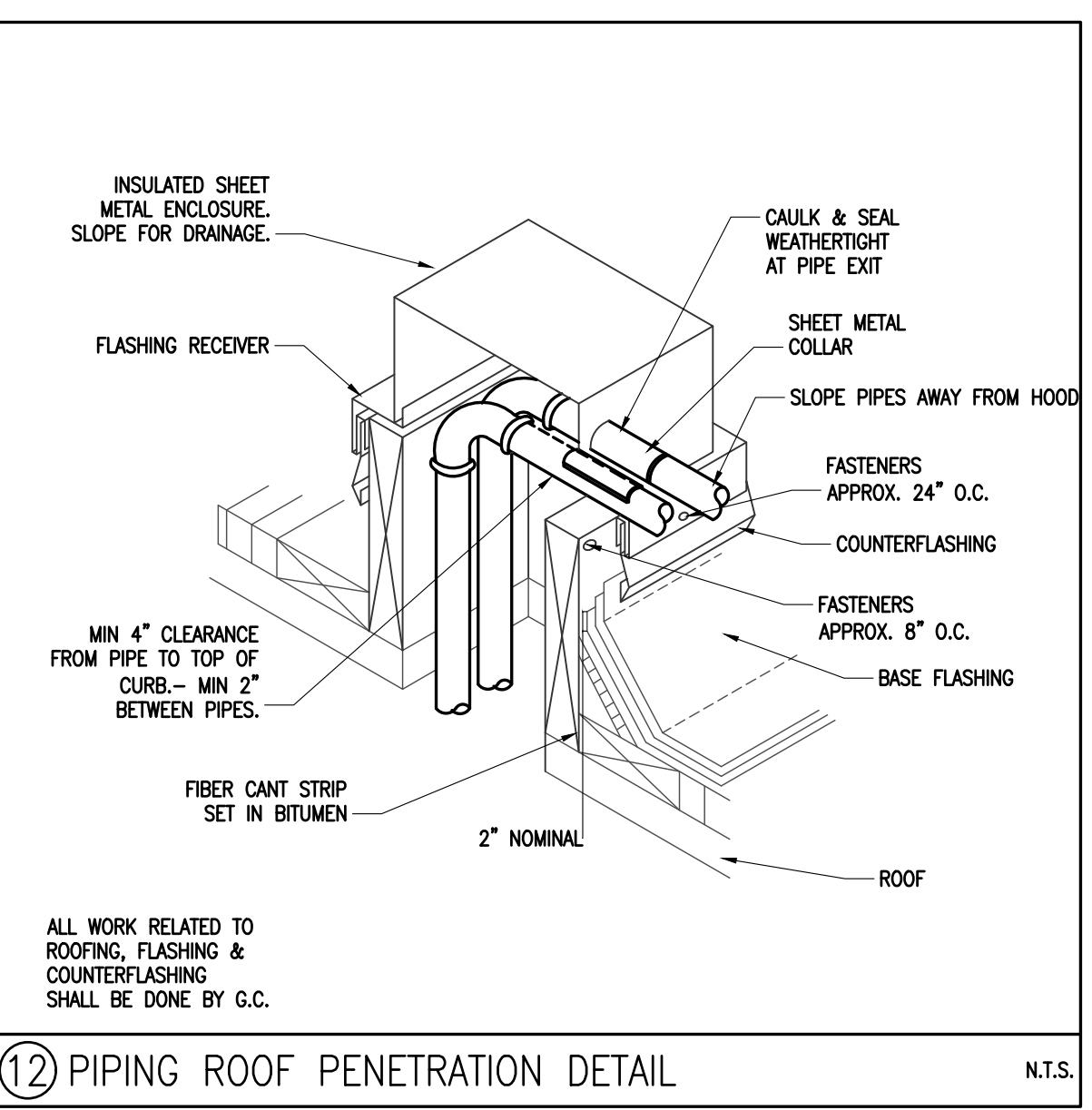
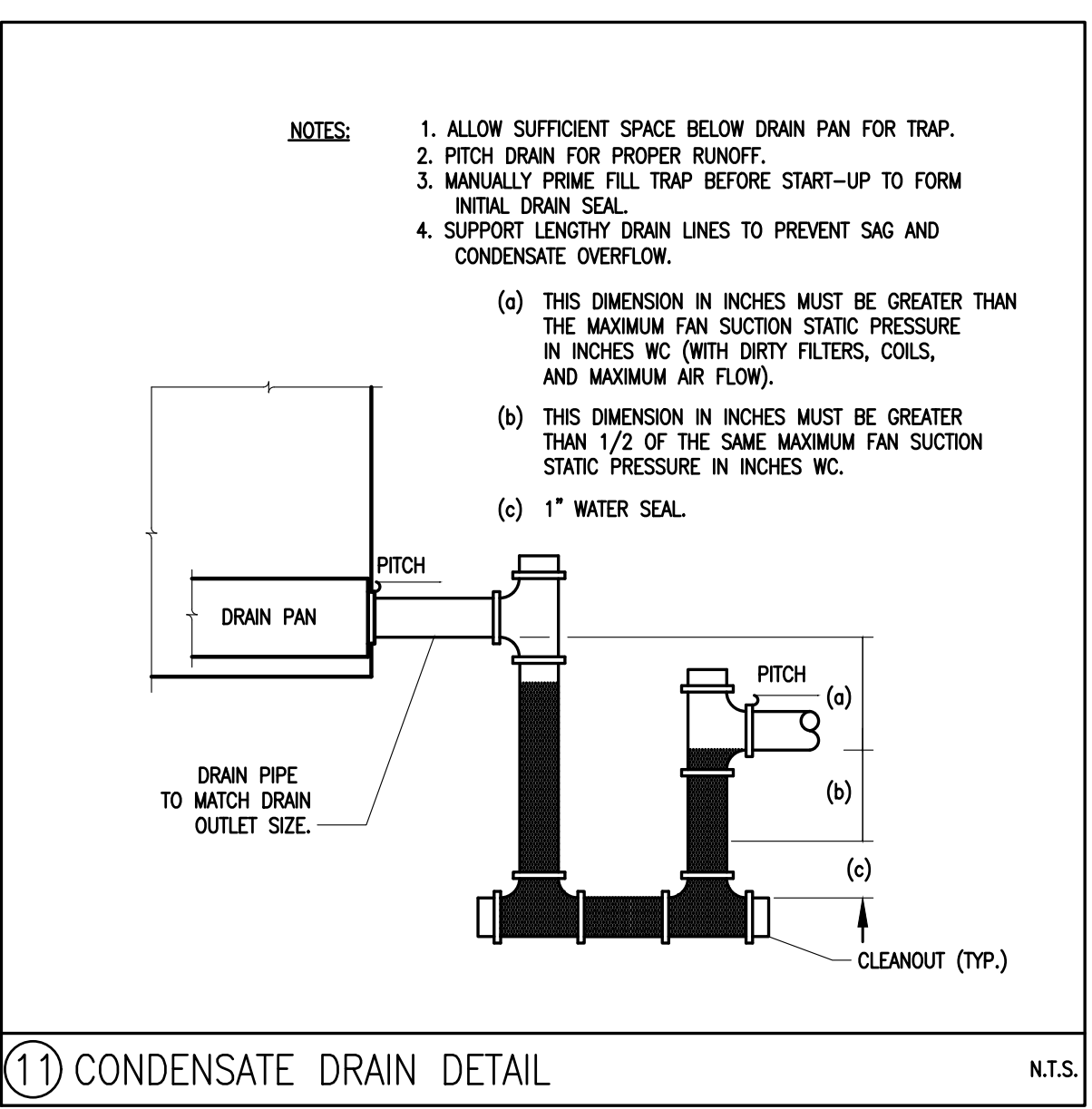
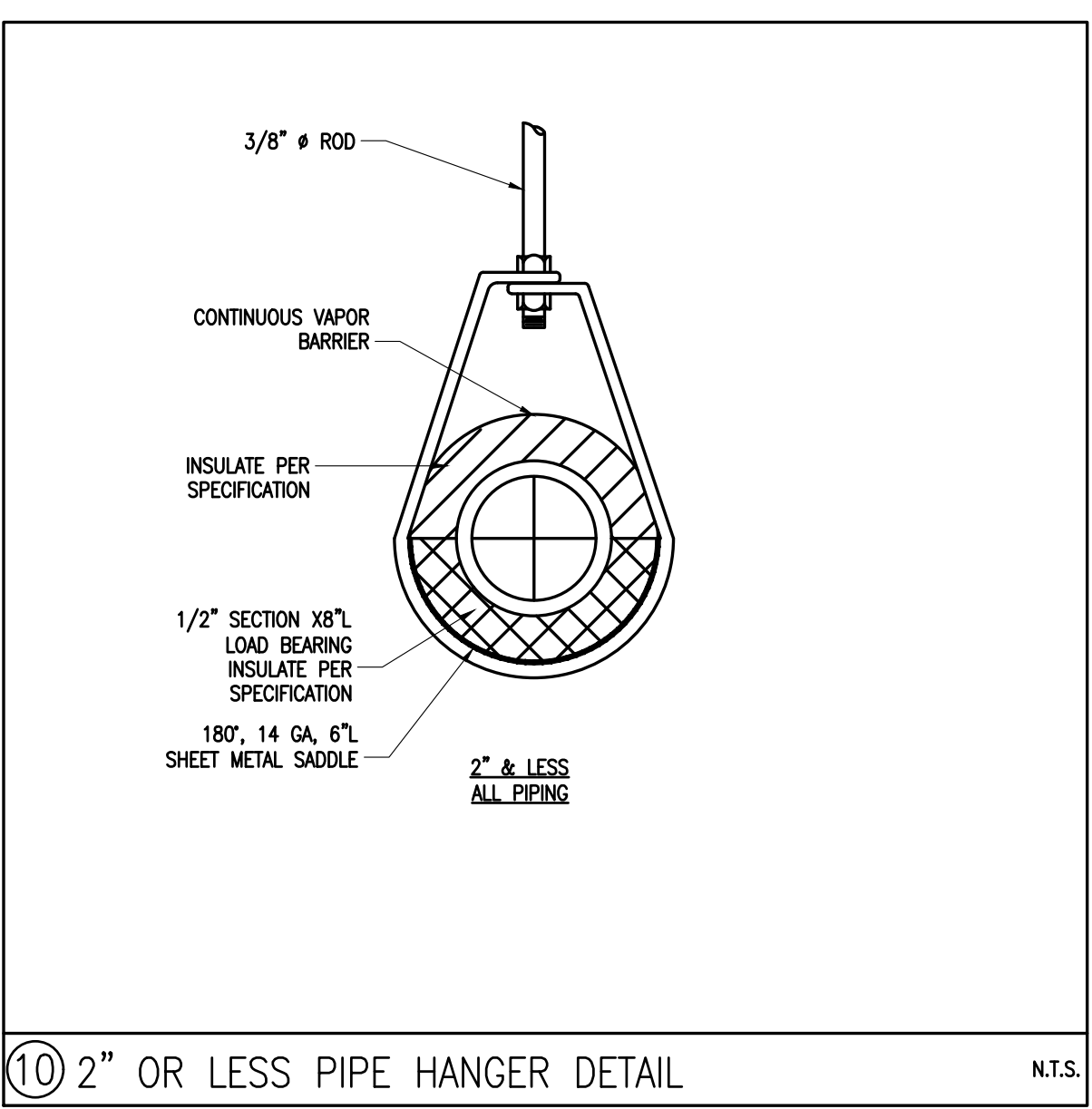
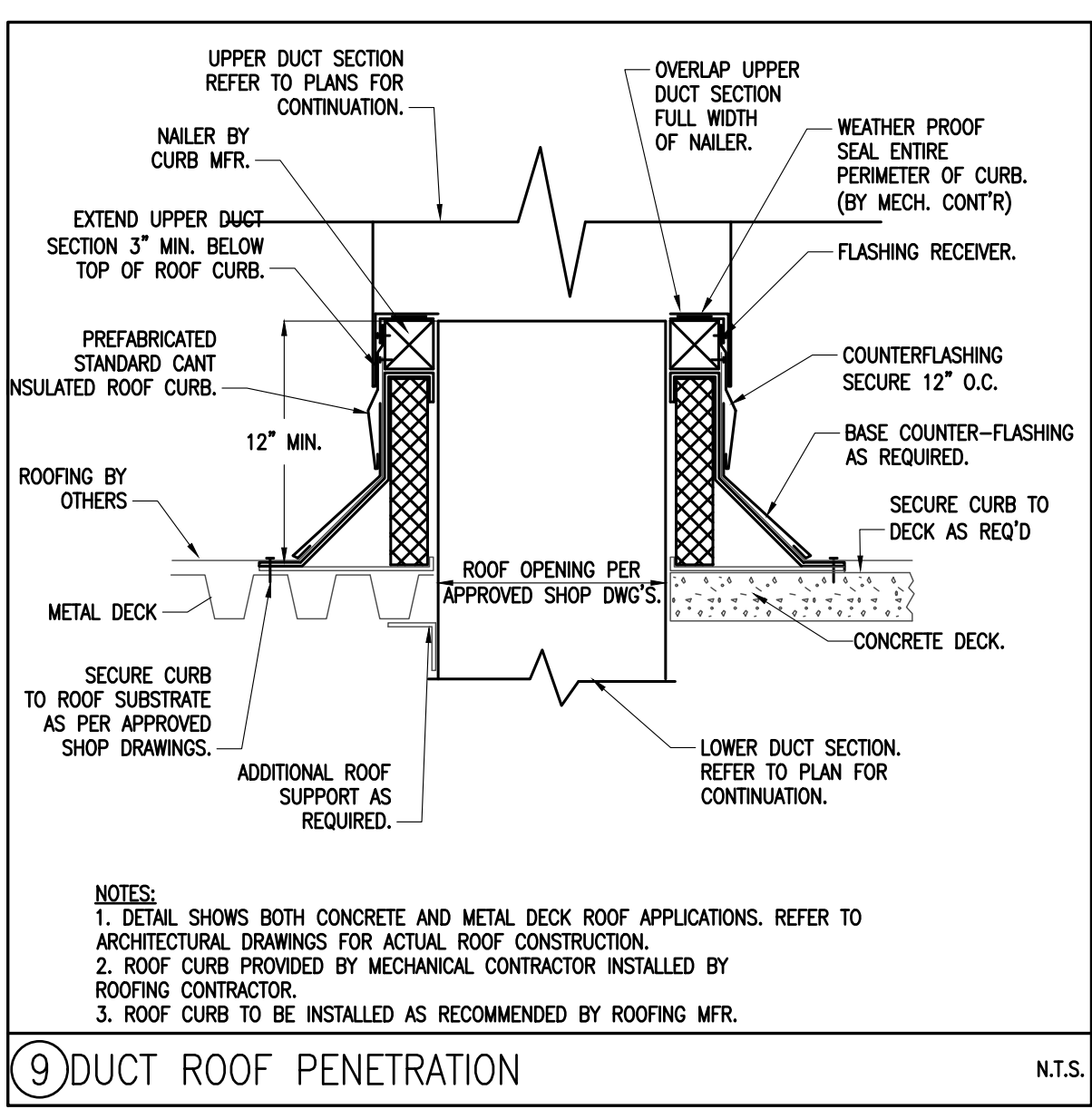
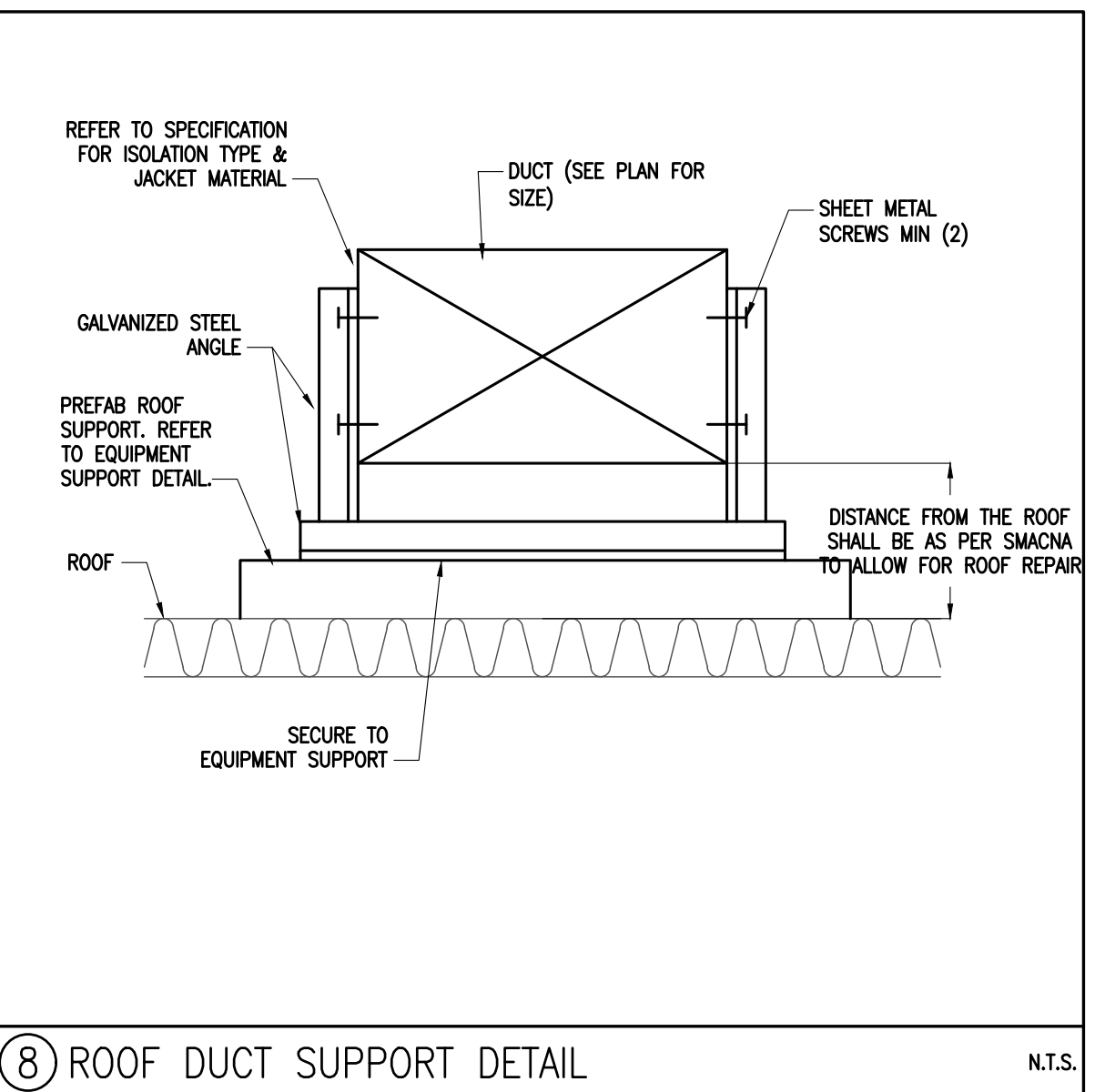
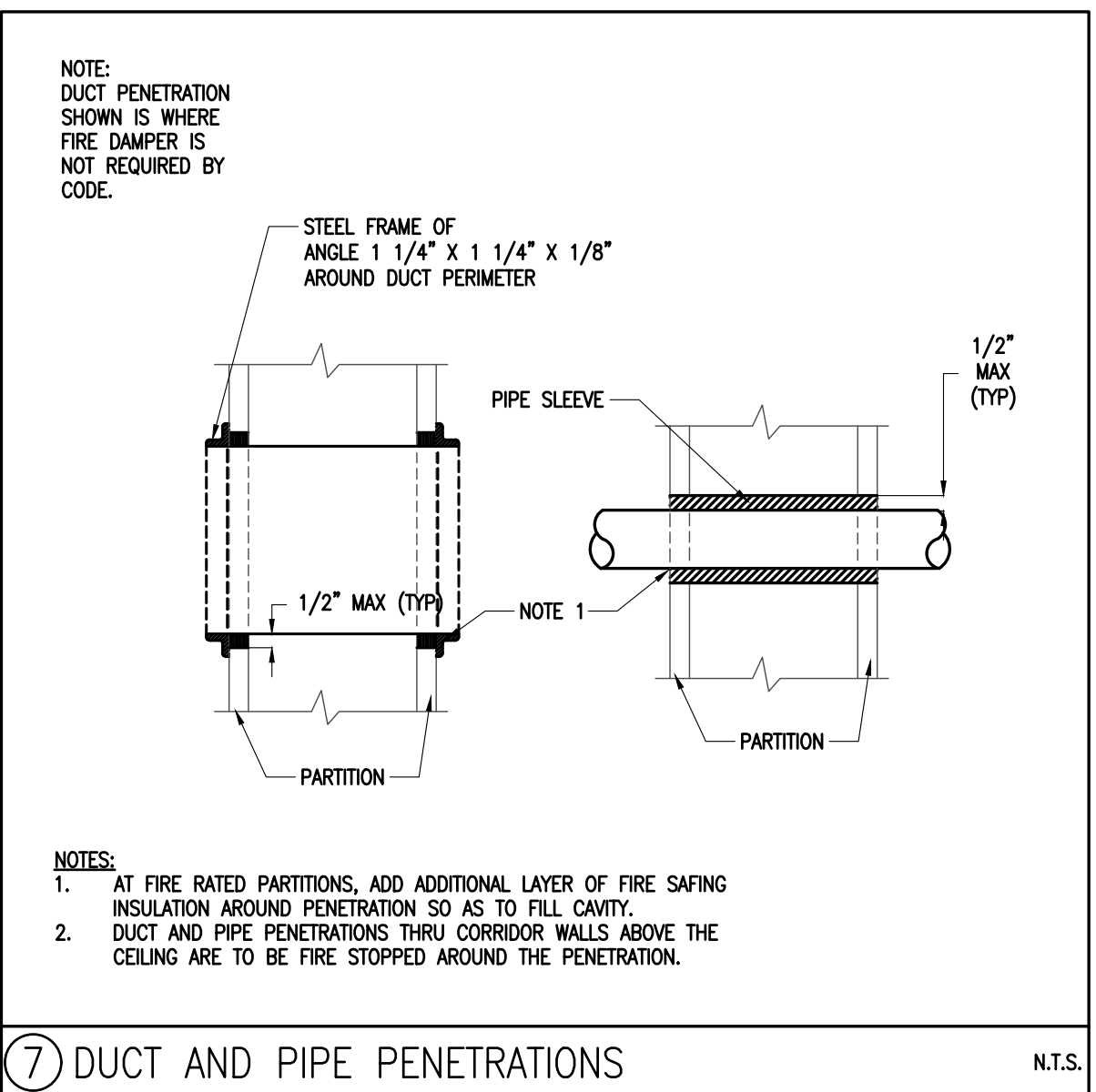
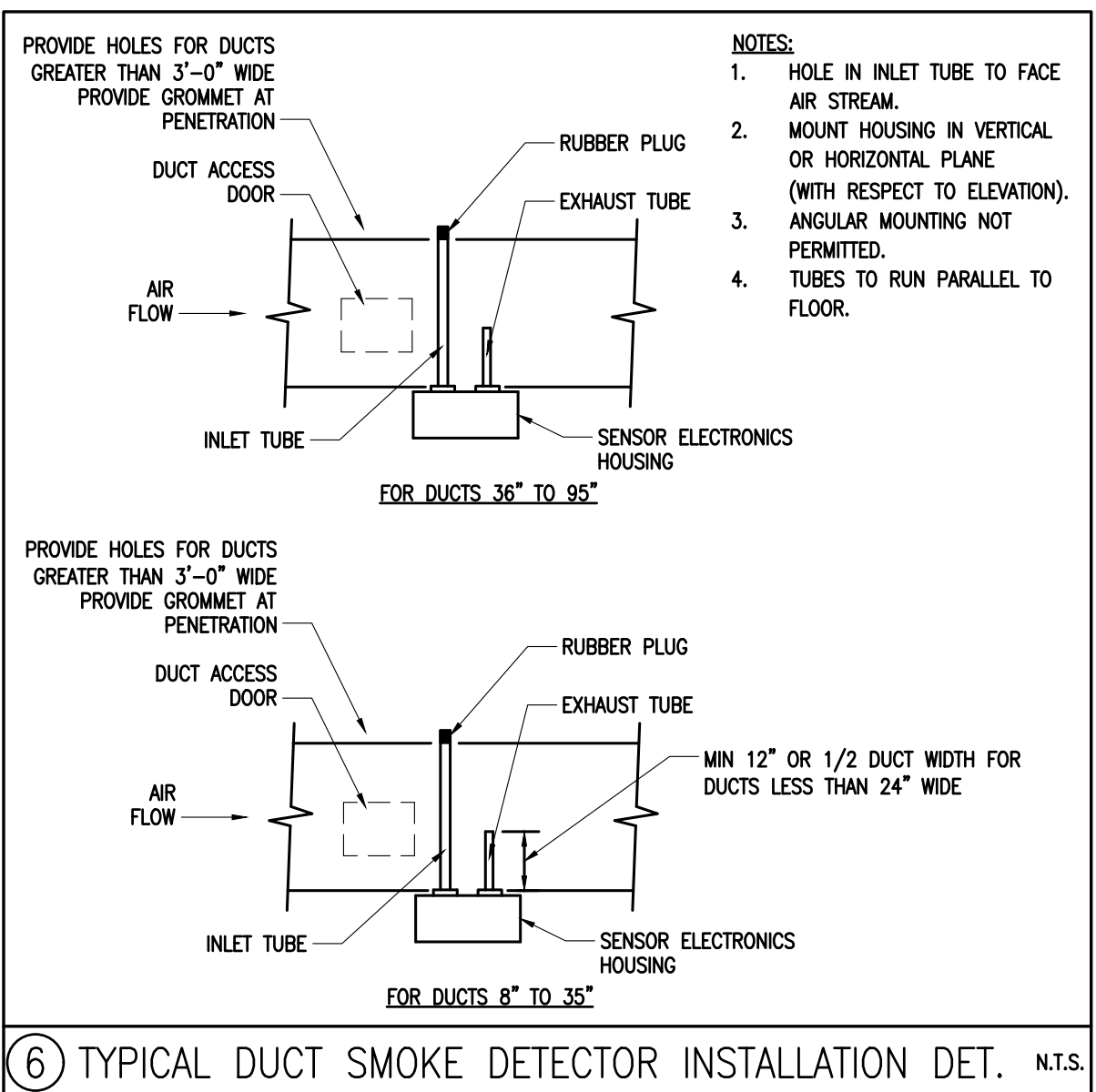
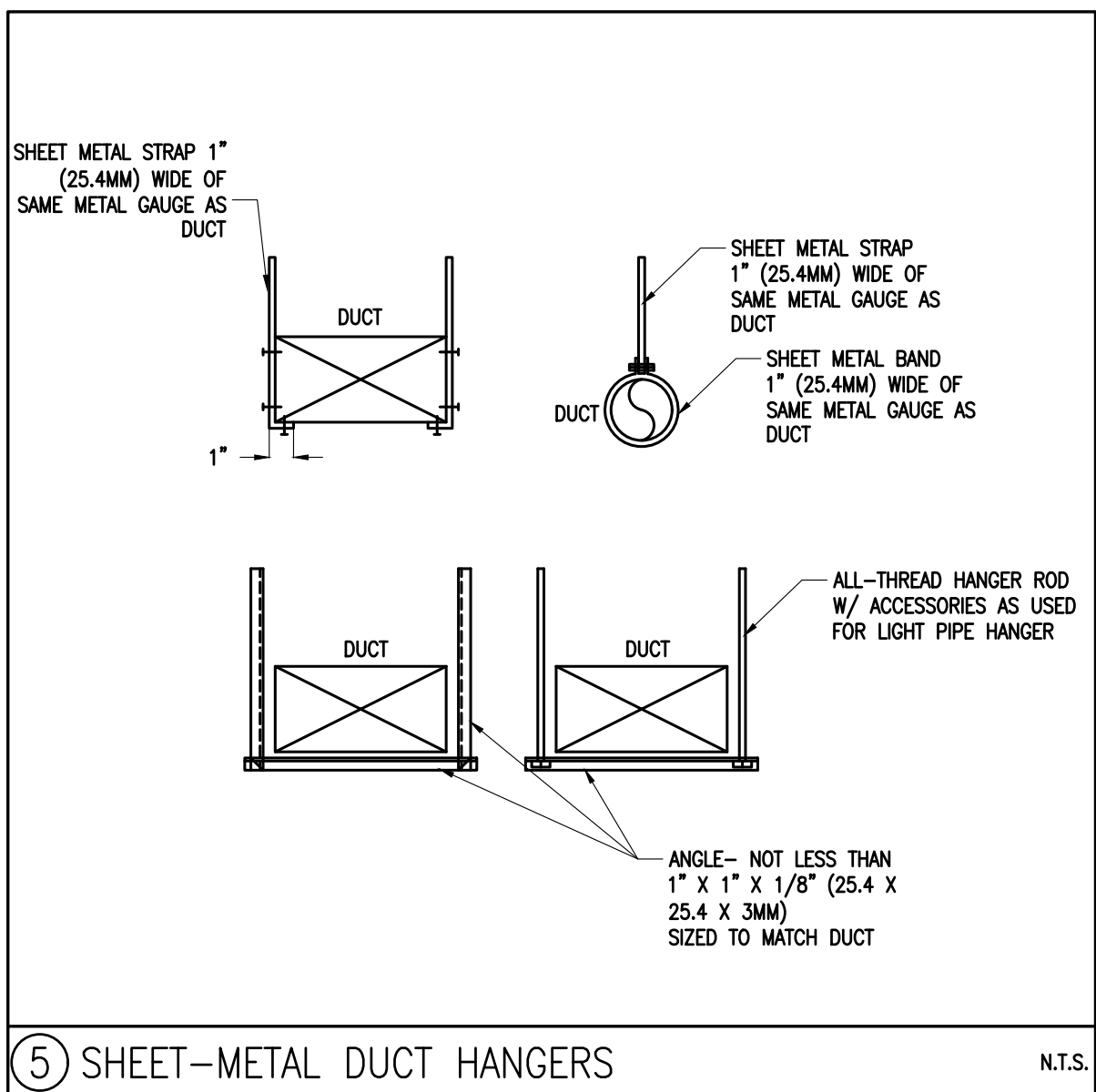
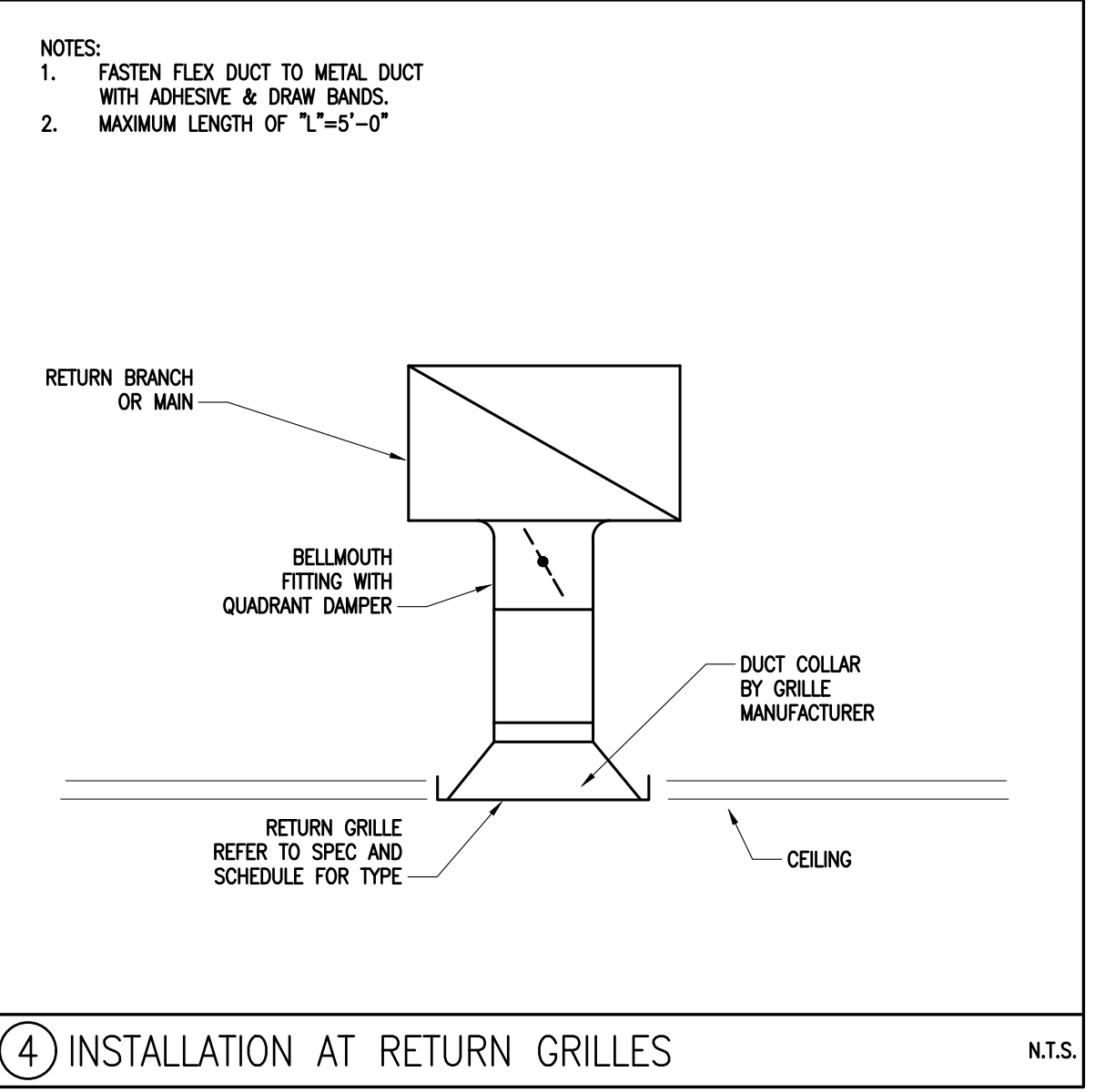
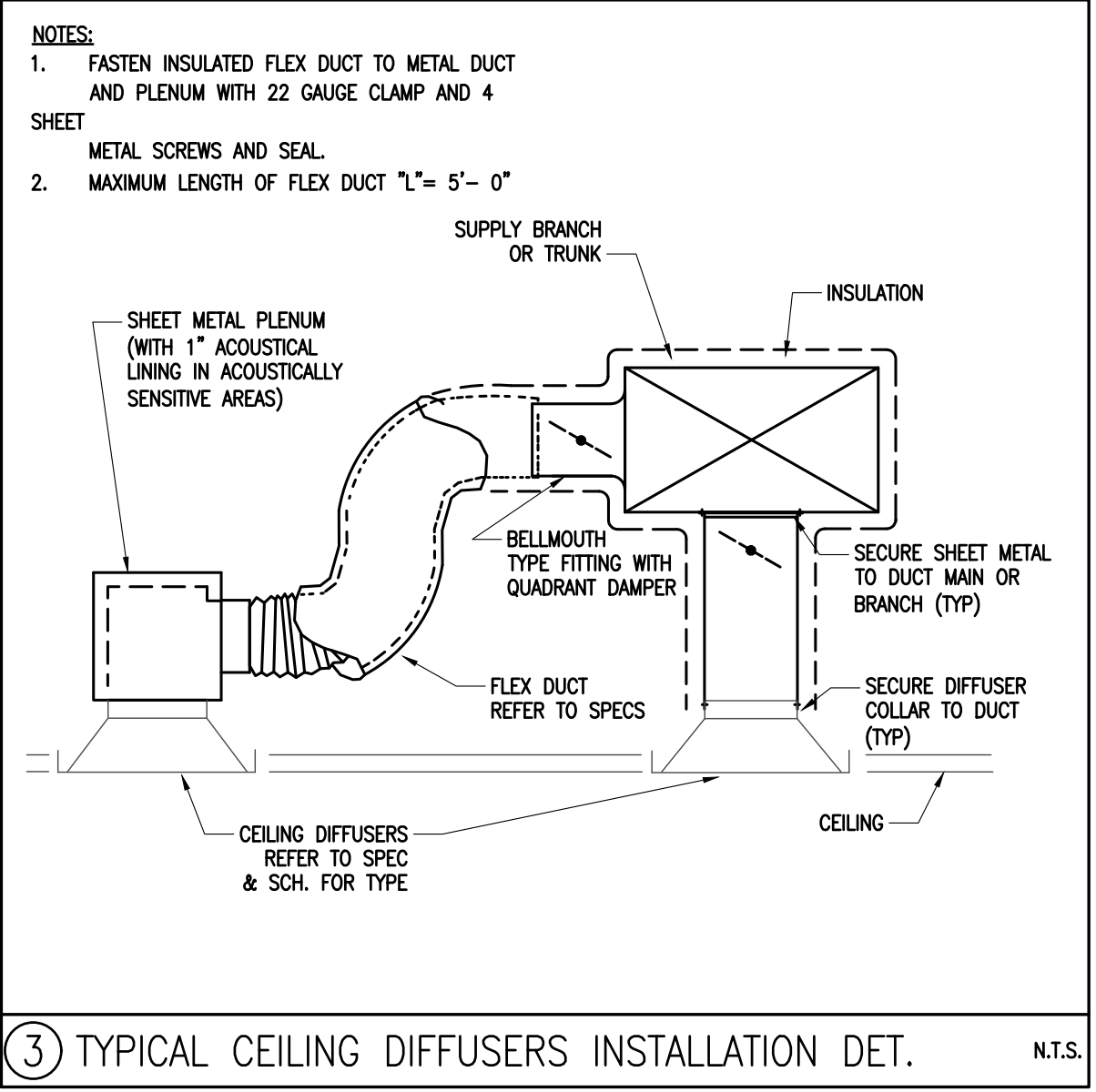
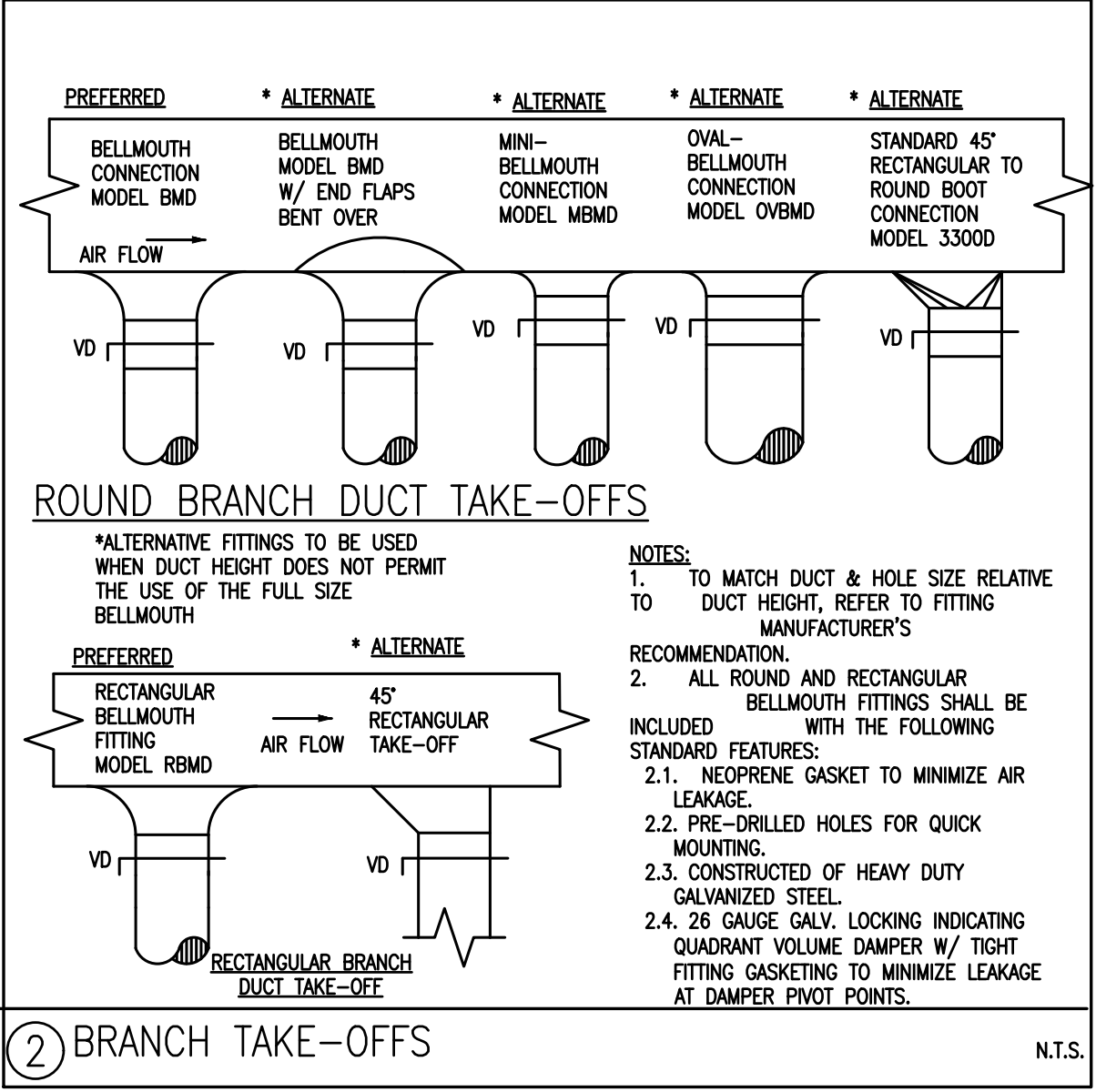
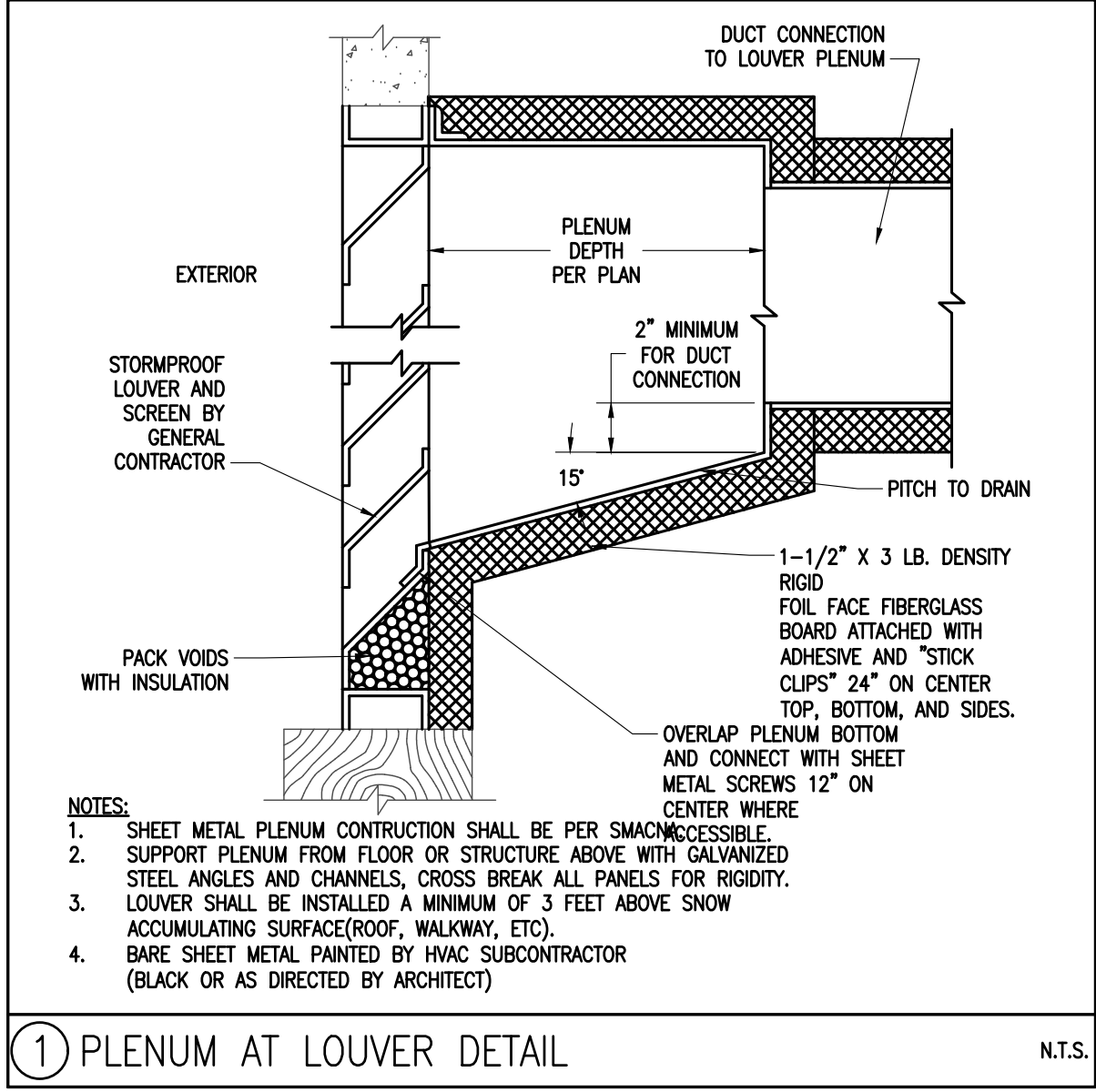
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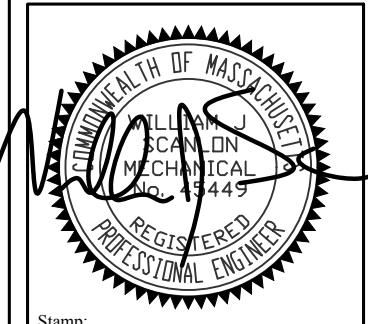
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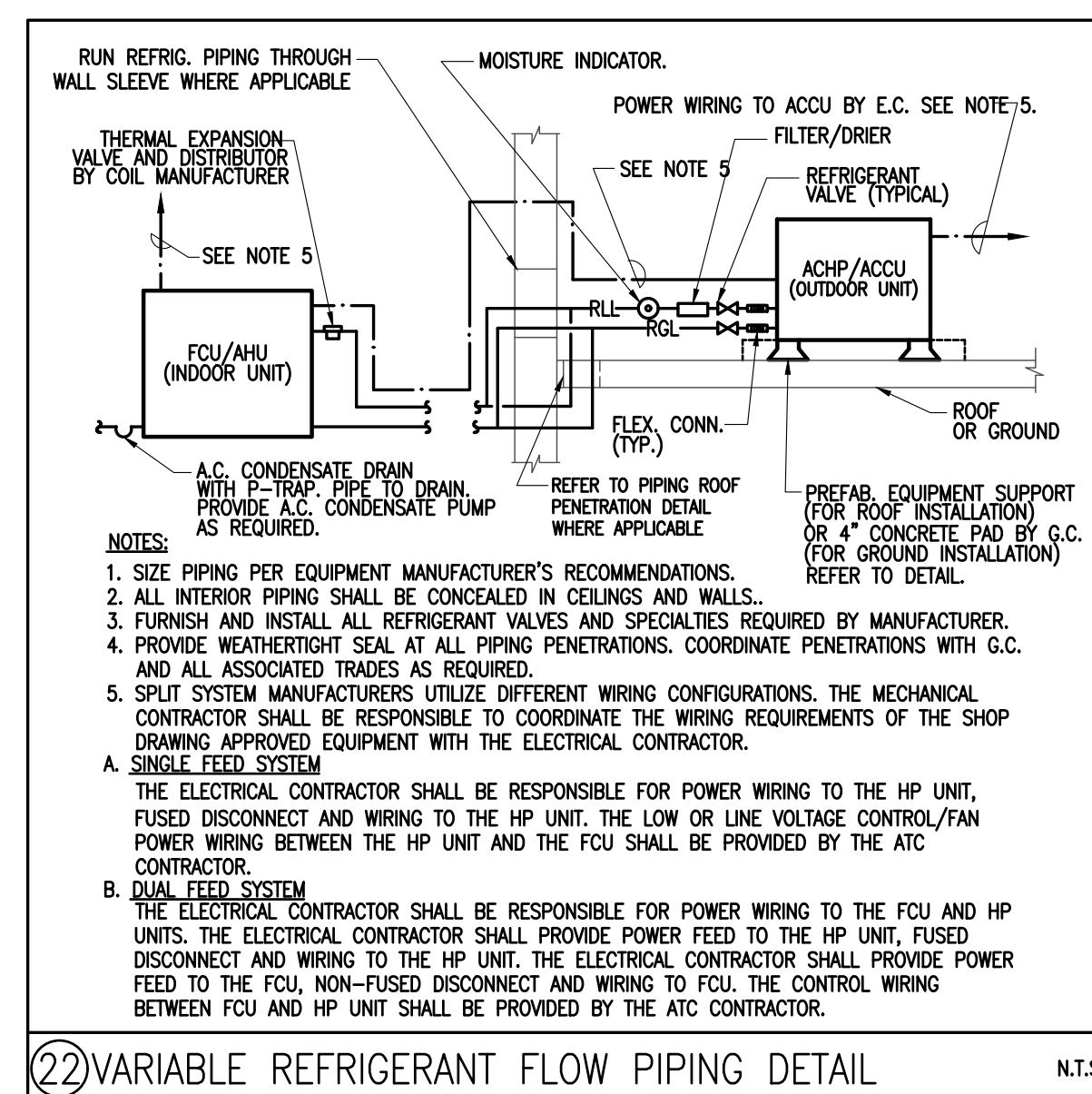
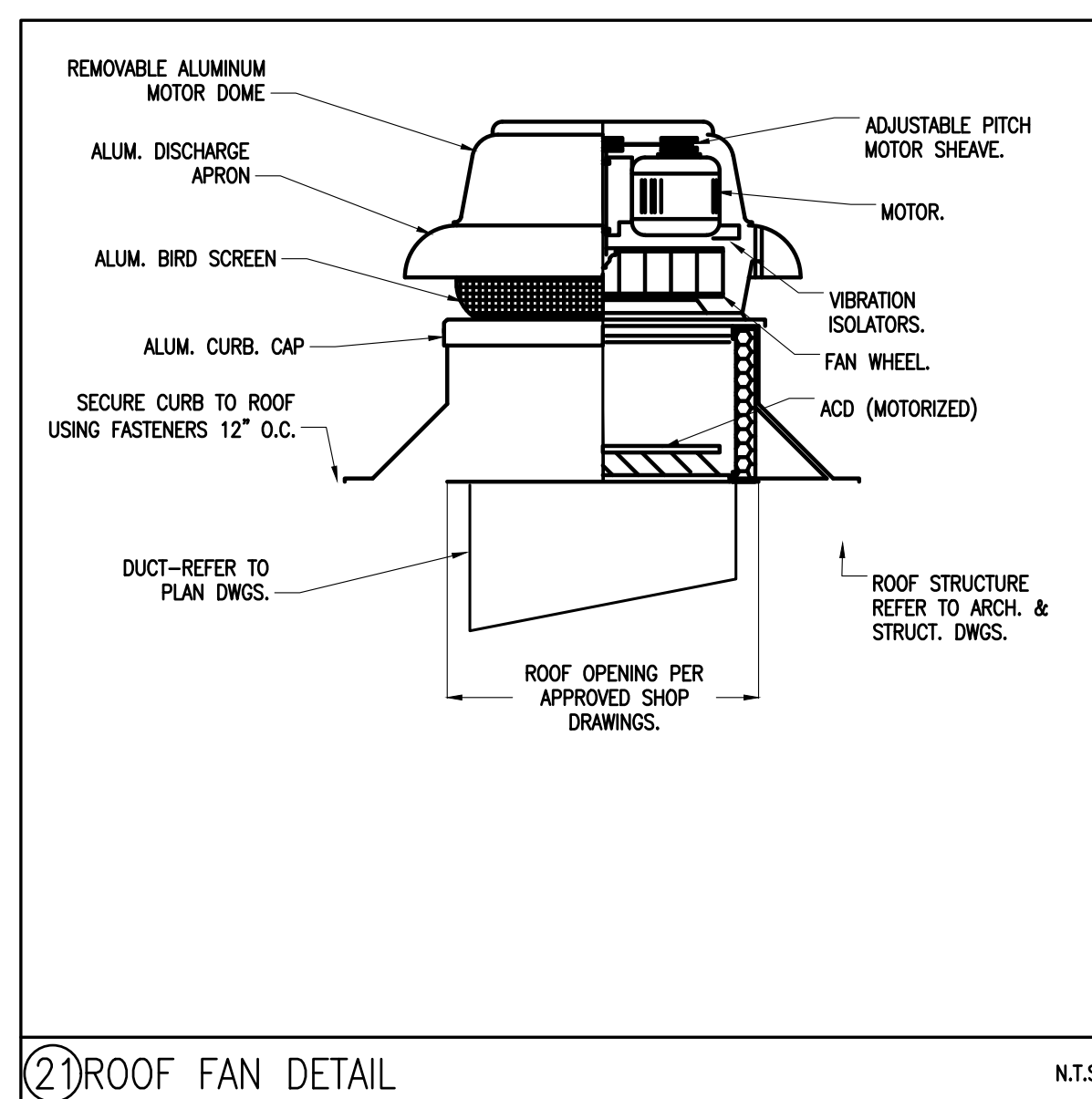
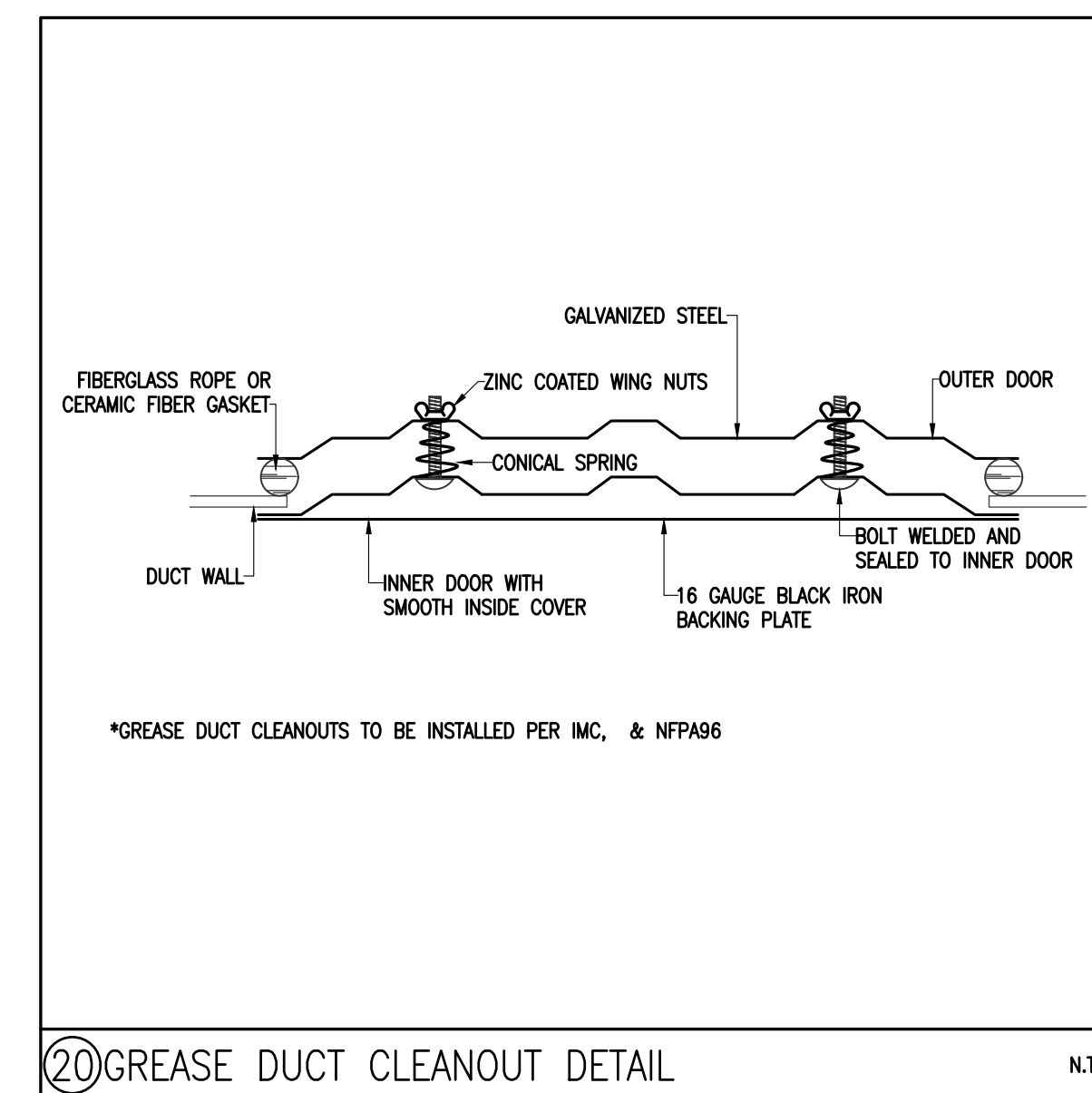
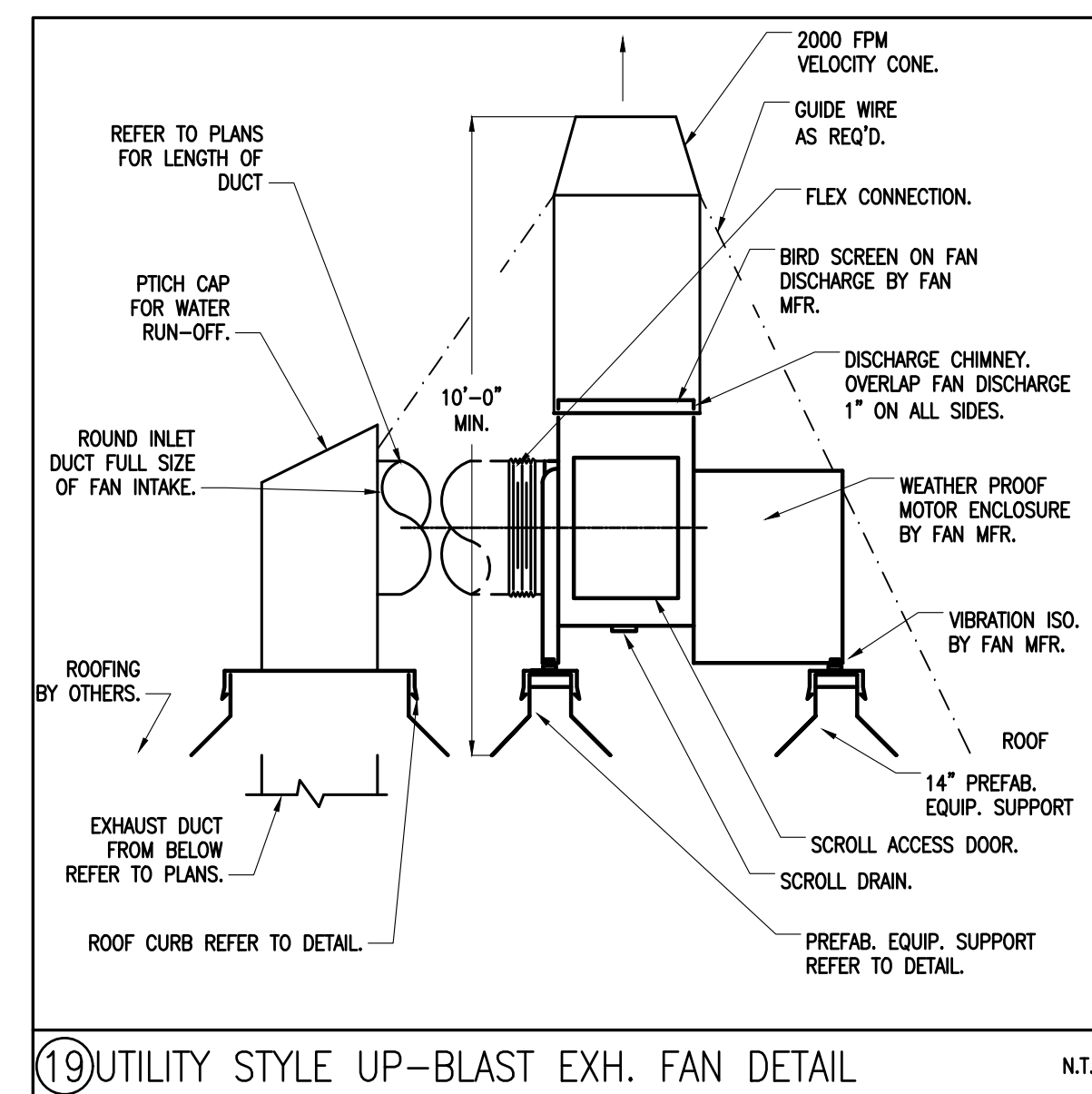
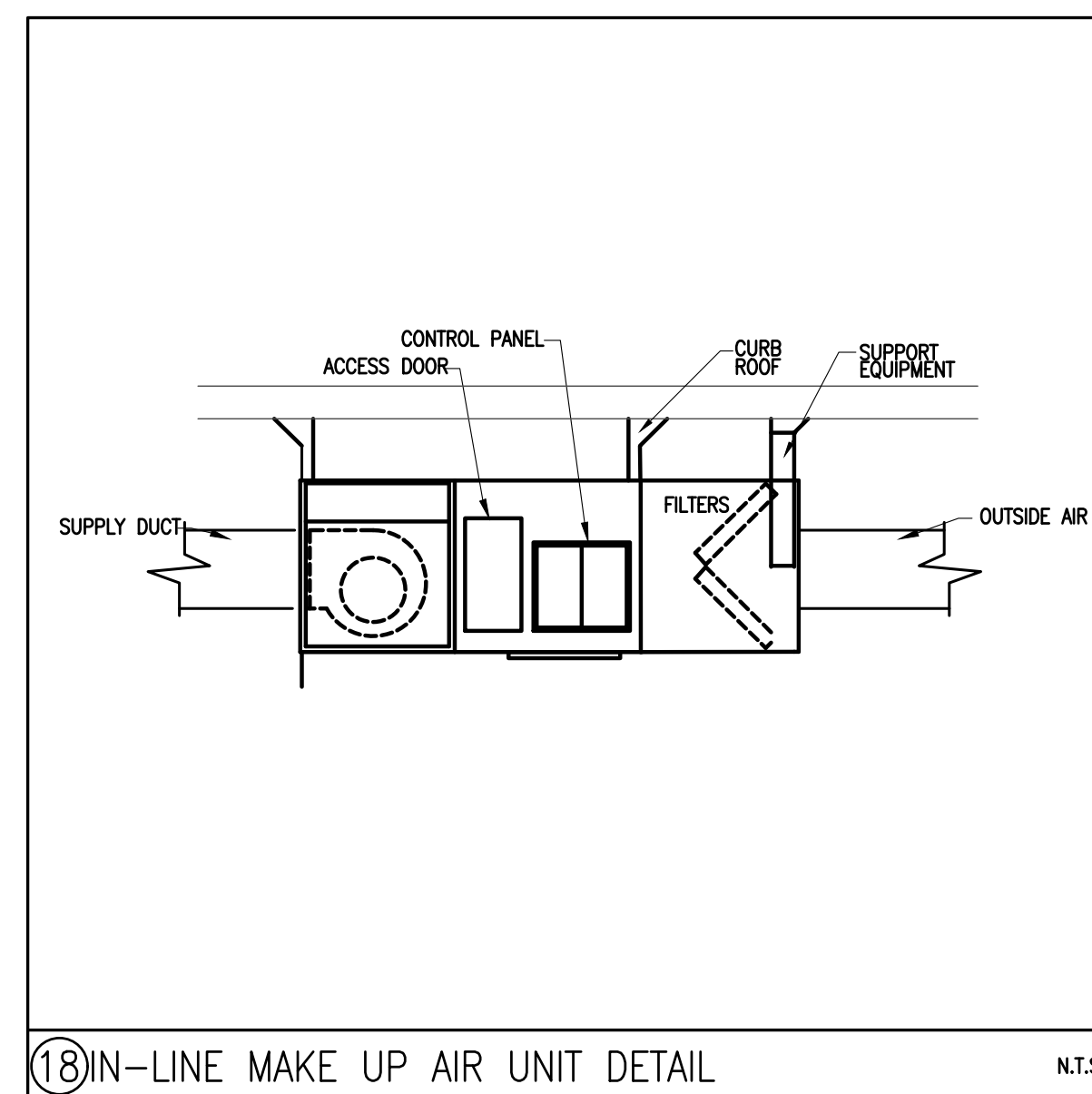
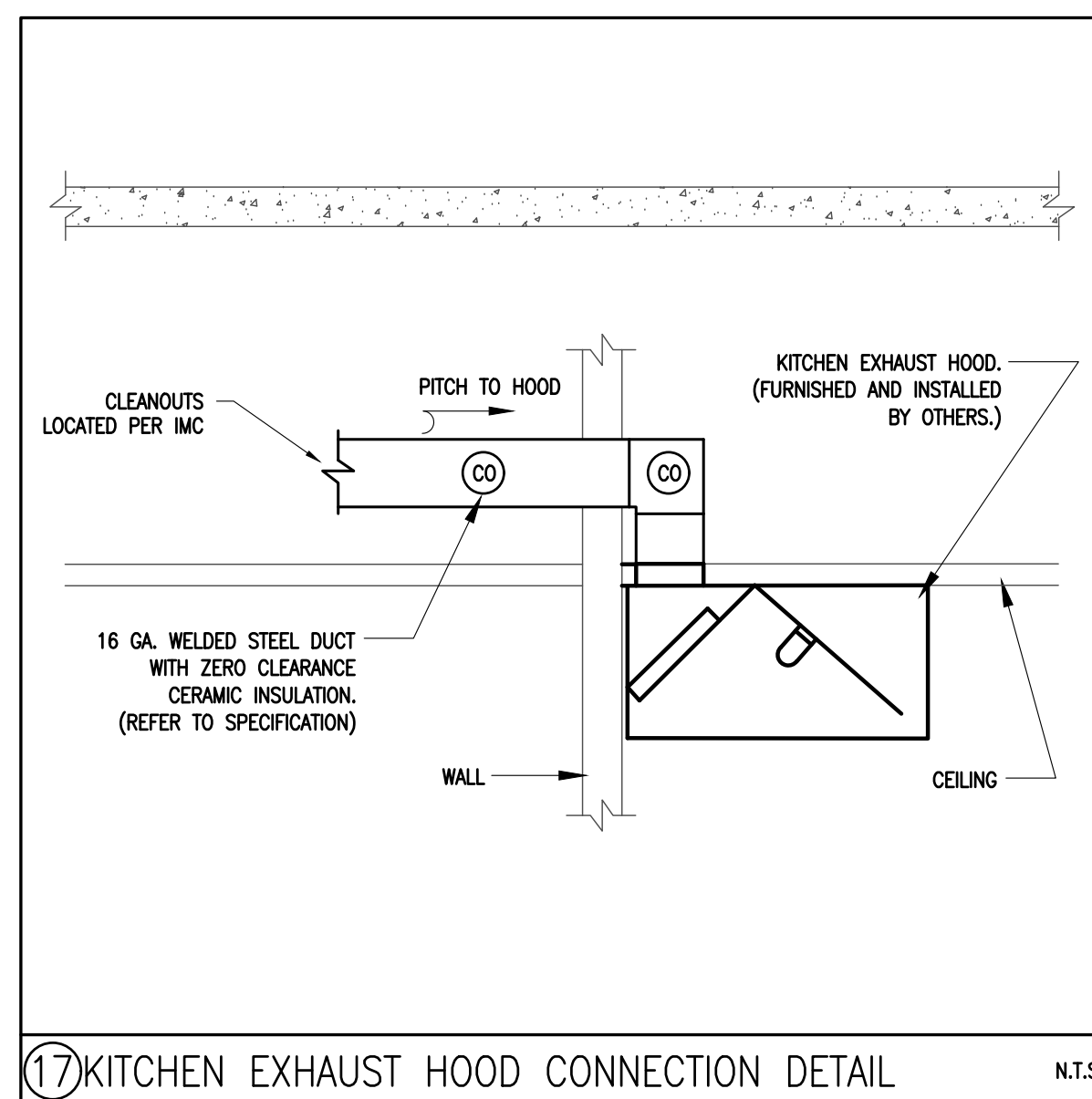
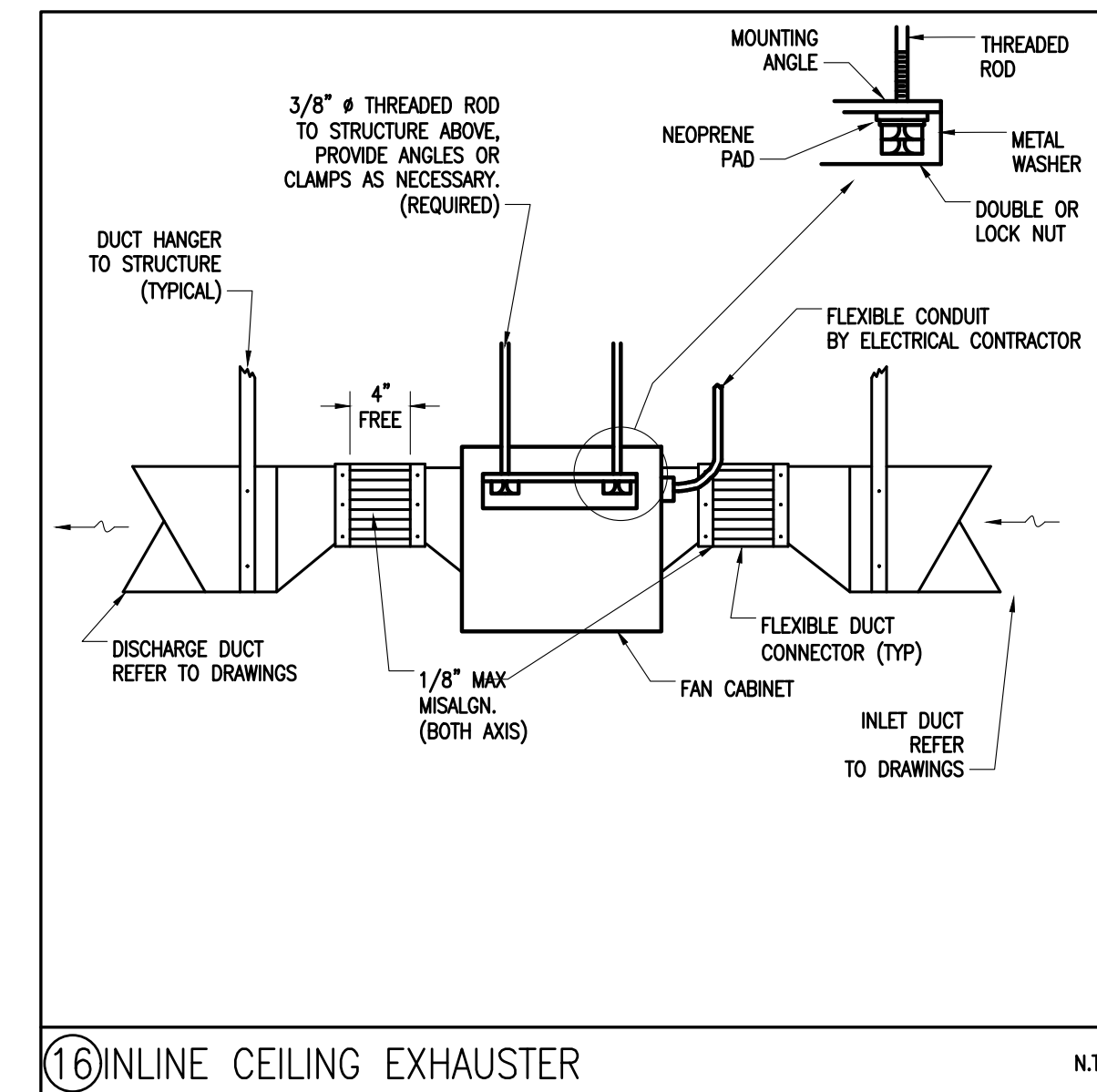
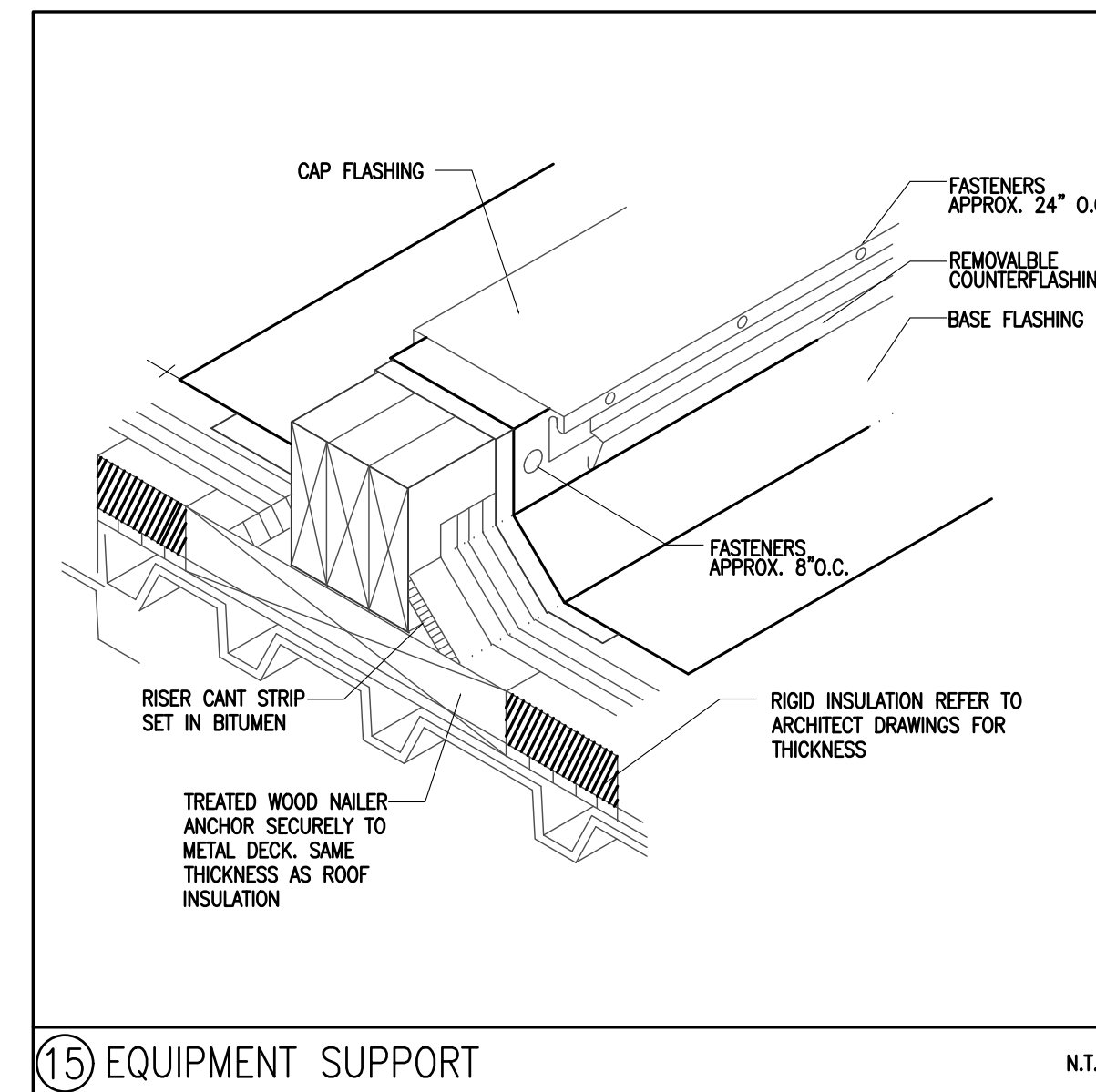
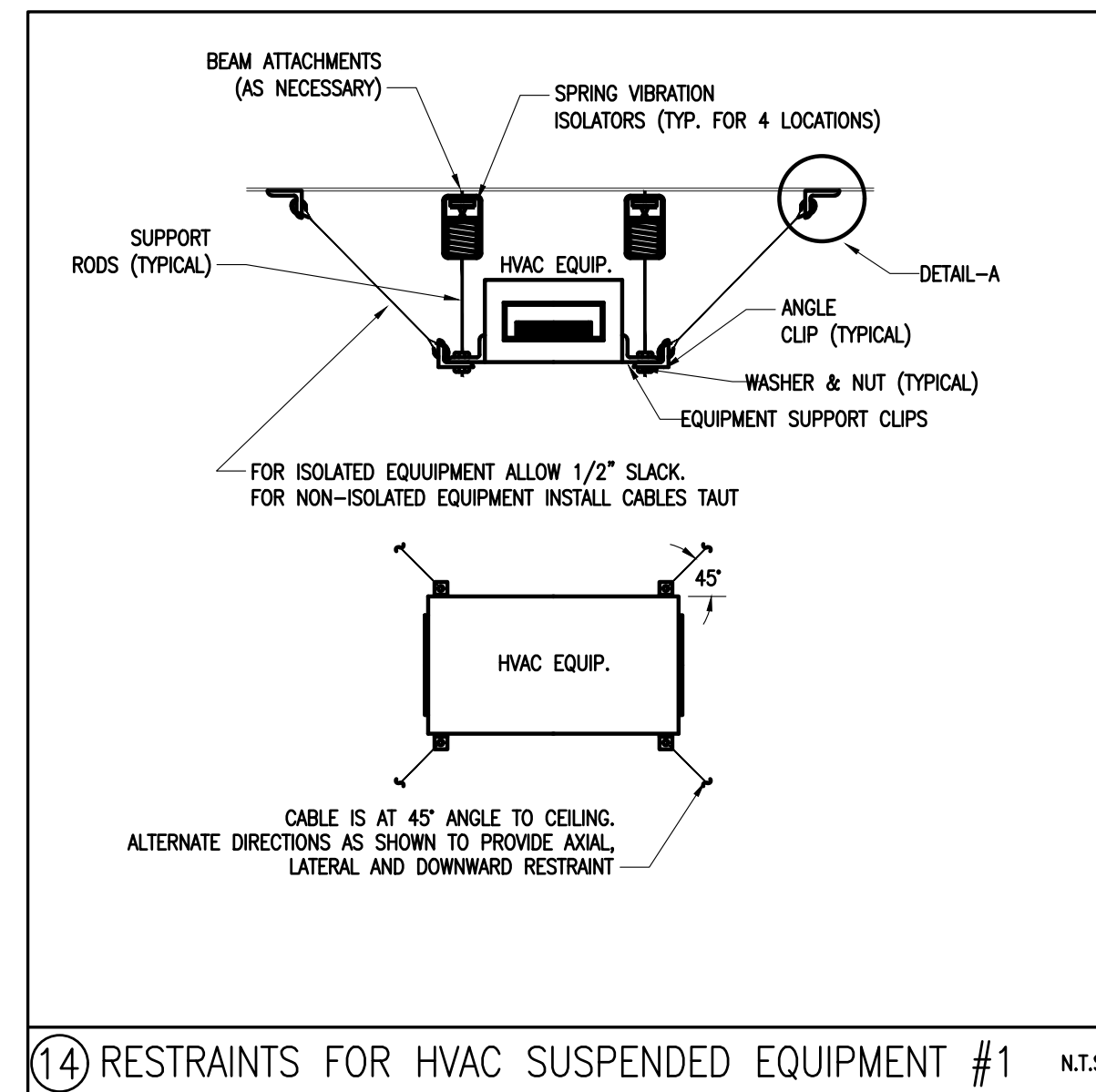
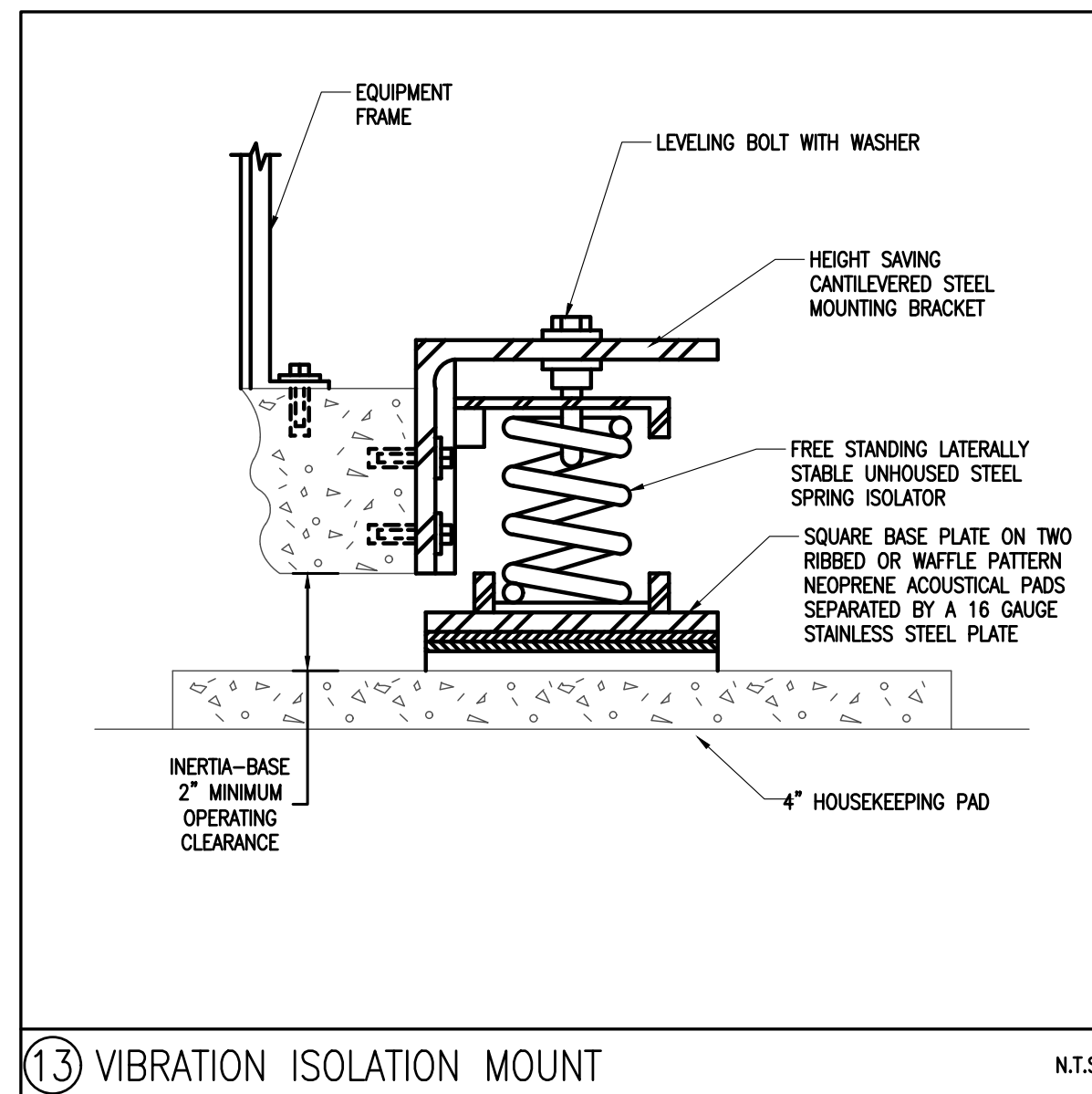
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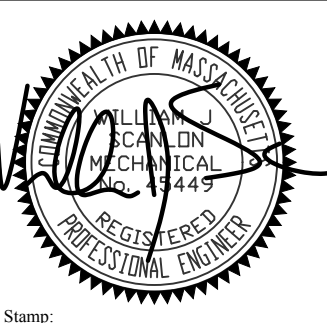
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1

APPLICATION TABLE	
MAKE-UP AIR UNIT(S)	HOOD EXHAUST FAN(S)
MAU-1	KEF-1

KITCHEN HOOD MAKE UP AIR UNIT & EXHAUST FANS SEQUENCE OF OPERATION

THE KITCHEN MAKEUP AIR UNIT AND KITCHEN EXHAUST HOOD FANS SHALL BE CONTROLLED BY ON/OFF SWITCHES AND THE KITCHEN CONTROL PANEL. TE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

OCCUPIED HOURS: WHEN THE KITCHEN HOOD ON/OFF SWITCH IS IN THE *OFF* POSITION, THE RESPECTIVE HOOD EXHAUST FAN SHALL BE DE-ENERGIZED. WHEN THE KITCHEN HOOD ON/OFF SWITCH IS IN THE *ON* POSITION, THE KITCHEN EXHAUST FANS SHALL BE ENERGIZED.

UPON ACTIVATION OF THE KITCHEN HOOD THE MAKEUP AIR UNIT'S SUPPLY FAN SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY; THE GAS FURNACE SHALL BE OFF; THE OUTDOOR AIR DAMPER SHALL BE OPENED.

THE UNIT SHALL OPERATE TO MAINTAIN A CONSTANT DISCHARGE AIR TEMPERATURE, 65°F (ADJUSTABLE). UPON A CALL FOR HEAT FROM THE DISCHARGE AIR TEMPERATURE SENSOR, THE MODULATING GAS VALVE SHALL MODULATE OPEN AS REQUIRED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

A DUCT MOUNTED PRESSURE SENSOR SHALL MODULATE THE FAN SPEED WITH THE VARIABLE FREQUENCY TO MAINTAIN A CONSTANT SUPPLY AIR DUCT STATIC PRESSURE SETTING.

UNOCCUPIED HOURS: THE MAKEUP AIR UNIT'S SUPPLY FAN SHALL BE DE-ENERGIZED AND THE OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL BE CLOSED. THE MAKEUP AIR UNIT AND KITCHEN EXHAUST FANS SHALL BE LOCKED OUT DURING UNOCCUPIED OPERATION.

THE HOOD'S FIRE SUPPRESSION SYSTEM SHALL BE AUTOMATICALLY ACTIVATED AS REQUIRED TO PROTECT THE DUCTS, PLENUM FILTER, AND COOKING EQUIPMENT. UPON FIRE SYSTEM ACTIVATION, THE MAKEUP AIR UNIT'S SUPPLY FAN SHALL BE DE-ENERGIZED AND OUTDOOR AIR SHALL CLOSE; AND AN ALARM SHALL BE TRANSMITTED TO THE BUILDING'S FIRE ALARM CONTROL PANEL.

WHEN THE SMOKE DETECTOR SENSES A SMOKE CONDITION, THE UNIT SUPPLY FAN SHALL BE DE-ENERGIZED; THE UNIT'S OUTDOOR AIR DAMPERS SHALL BE CLOSED THE EXHAUST AN SHALL REMAIN ENERGIZED AND THE APPROPRIATE ALARM SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM PANEL.

2

APPLICATION TABLE	
TOILET EXHAUST FAN	
TEF-1	

BATHROOM TOILET EXHAUST FAN SEQUENCE OF OPERATION

THE BUILDING TOILET EXHAUST FAN SHALL BE CONTROLLED THROUGH AN APPLICATION SPECIFIC CONTROLLER. THE SEQUENCE LISTED BELOW SHALL BE REVERSIBLE UNLESS NOTED OTHERWISE.

DURING OCCUPIED HOURS, THE EXHAUST FAN SHALL BE ENERGIZED AND RUN CONTINUOUSLY. DURING UNOCCUPIED HOURS, THE EXHAUST FAN SHALL BE DE-ENERGIZED.

3

APPLICATION TABLE	
SUPPLY FAN	
SF-1	

OUTDOOR AIR SUPPLY FAN SEQUENCE OF OPERATION

THE OUTDOOR AIR SUPPLY FAN SHALL BE CONTROLLED THROUGH A TIME CLOCK.

DURING OCCUPIED HOURS, THE MOTORIZED DAMPER SHALL OPEN, AND THE SUPPLY FAN SHALL BE ENERGIZED AND RUN CONTINUOUSLY. DURING UNOCCUPIED HOURS, THE SUPPLY FAN SHALL BE DE-ENERGIZED, AND THE MOTORIZED DAMPER SHALL CLOSE.

4

APPLICATION TABLE	
VRF FAN COIL UNITS	
E.HP-1,2,3; E.FCU-1,2,3,4,5,6,7,8	

EXISTING VRF FAN COIL UNIT SEQUENCE OF OPERATION

THE INDOOR UNITS UNITS SHALL BE OPERATED THROUGH SPACE THERMOSTAT AND MASTER SYSTEM CONTROLLER. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

THE UNIT'S SUPPLY FAN SHALL BE ENERGIZED AND OPERATE CONTINUOUSLY AT LOW SPEED.

HEATING MODE:

UPON A CALL FOR HEATING FROM THE SPACE THERMOSTAT THE UNIT SHALL OPERATE MAINTAIN SPACE TEMPERATURE SET POINT 70F(ADJ.) UPON CONTINUED CALL FOR HEAT THE UNIT SUPPLY FAN SHALL INCREMENTALLY INCREASE SPEED TO THE HIGH SETTING TO MAINTAIN SPACE TEMPERATURE SET POINT.

COOLING MODE:

UPON A CALL FOR COOLING FROM THE SPACE THERMOSTAT THE UNIT SHALL OPERATE TO MAINTAIN SPACE TEMPERATURE SET POINT 75F(ADJ.) UPON CONTINUED CALL FOR COOLING THE UNIT SUPPLY FAN SHALL INCREMENTALLY INCREASE SPEED TO THE HIGH SETTING TO MAINTAIN SPACE TEMPERATURE SET POINT.

5

APPLICATION TABLE	
TOILET EXHAUST FAN	
DEF-1	

DISHWASHER EXHAUST FAN SEQUENCE OF OPERATION

THE DISHWASHER EXHAUST FAN SHALL BE CONTROLLED BY THE DISHWASHER "ON/OFF" SWITCH. WHEN THE SWITCH IS IN THE "ON" POSITION, THE DISHWASHER EXHAUST FAN SHALL BE ENERGIZED. WHEN THE SWITCH IS IN THE "OFF" POSITION, THE DISHWASHER EXHAUST FAN SHALL BE DEENERGIZED.

6

APPLICATION TABLE	
UNIT HEATER(S)	
E.EH-1	

ELECTRIC WALL HEATER SEQUENCE OF OPERATION

ELECTRIC HEATERS SHALL BE CONTROLLED THROUGH INTEGRAL THERMOSTAT. THE SEQUENCE LISTED BELOW IS REVERSIBLE UNLESS NOTED OTHERWISE.

HEATING MODE:

UPON SENSING SPACE TEMPERATURE BELOW SET POINT OF 60°F THE UNIT FAN AND HEATING ELEMENT SHALL ENERGIZE AND OPERATE TO MAINTAIN SET POINT. UPON SATISFYING CALL FOR HEAT, HEATING ELEMENT SHALL DE-ENERGIZE AND AFTER SHORT DELAY FAN SHALL DE-ENERGIZE.

7

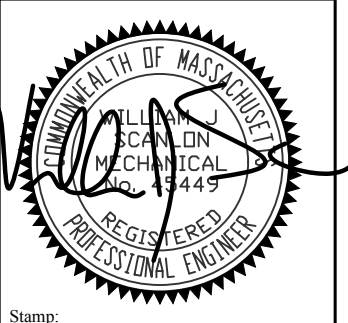
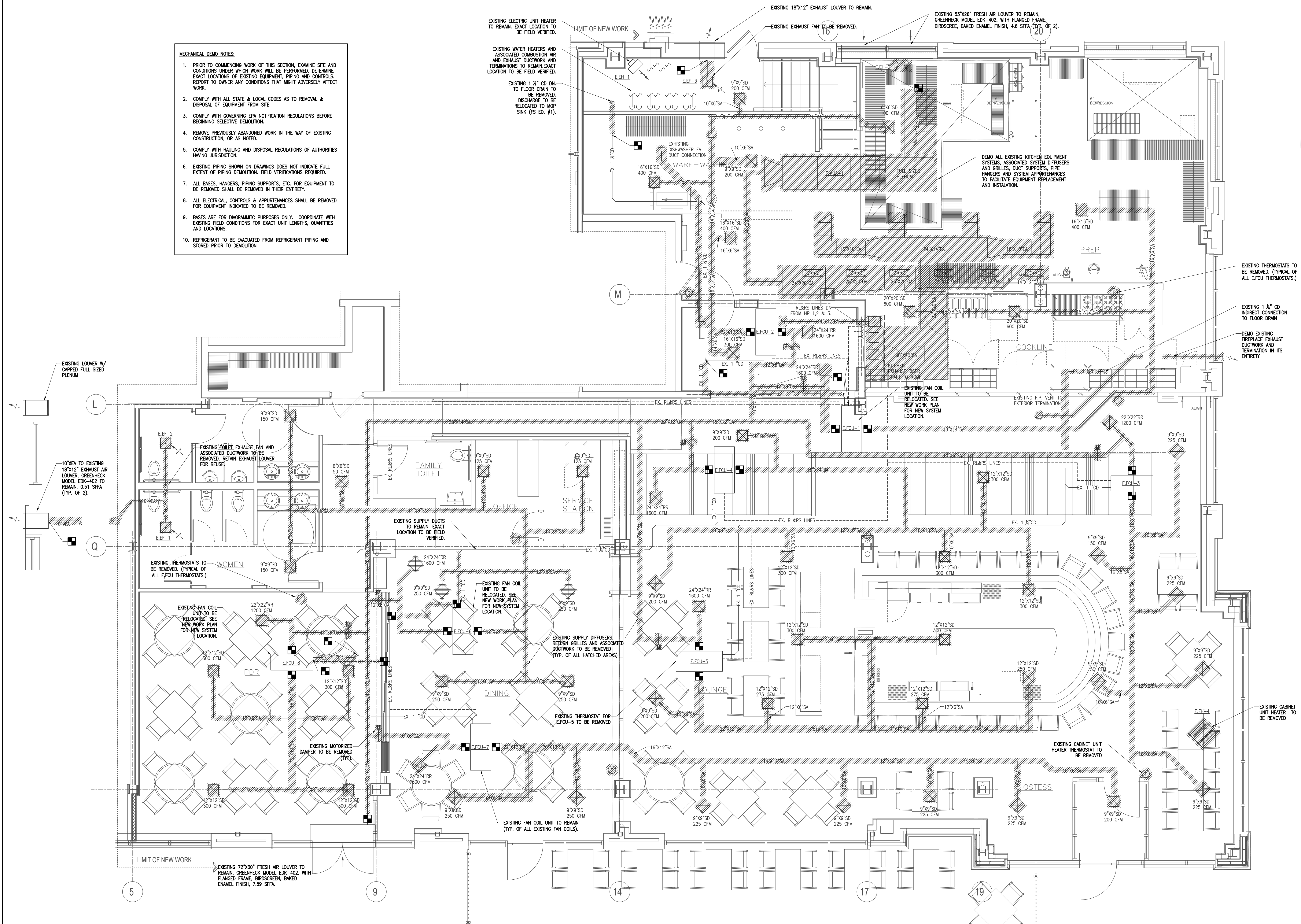
APPLICATION TABLE	
EXISTING TRASH EXHAUST FAN	
E.EF-1	

EXISTING TRASH ROOM EXHAUST FAN SEQUENCE OF OPERATION

THE BUILDING TOILET EXHAUST FAN SHALL BE CONTROLLED THROUGH AN APPLICATION SPECIFIC CONTROLLER. THE SEQUENCE LISTED BELOW SHALL BE REVERSIBLE UNLESS NOTED OTHERWISE.

DURING OCCUPIED HOURS, THE EXHAUST FAN SHALL BE ENERGIZED AND RUN CONTINUOUSLY. DURING UNOCCUPIED HOURS, THE EXHAUST FAN SHALL BE DE-ENERGIZED.

- MECHANICAL DEMO NOTES:**
1. PRIOR TO COMMENCING WORK OF THIS SECTION, EXAMINE SITE AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. DETERMINE EXACT LOCATIONS OF EXISTING EQUIPMENT, PIPING AND CONTROLS. REPORT TO OWNER ANY CONDITIONS THAT MIGHT ADVERSELY AFFECT WORK.
 2. COMPLY WITH ALL STATE & LOCAL CODES AS TO REMOVAL & DISPOSAL OF EQUIPMENT FROM SITE.
 3. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION.
 4. REMOVE PREVIOUSLY ABANDONED WORK IN THE WAY OF EXISTING CONSTRUCTION, OR AS NOTED.
 5. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
 6. EXISTING PIPING SHOWN ON DRAWINGS DOES NOT INDICATE FULL EXTENT OF PIPING DEMOLITION. FIELD VERIFICATIONS REQUIRED.
 7. ALL BASES, HANGERS, PIPING SUPPORTS, ETC. FOR EQUIPMENT TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY.
 8. ALL ELECTRICAL CONTROLS & APPURTENANCES SHALL BE REMOVED FOR EQUIPMENT INDICATED TO BE REMOVED.
 9. BASES ARE FOR DIAGRAMMATIC PURPOSES ONLY. COORDINATE WITH EXISTING FIELD CONDITIONS FOR EXACT UNIT LENGTHS, QUANTITIES AND LOCATIONS.
 10. REFRIGERANT IS TO BE EVACUATED FROM REFRIGERANT PIPING AND STORED PRIOR TO DEMOLITION.



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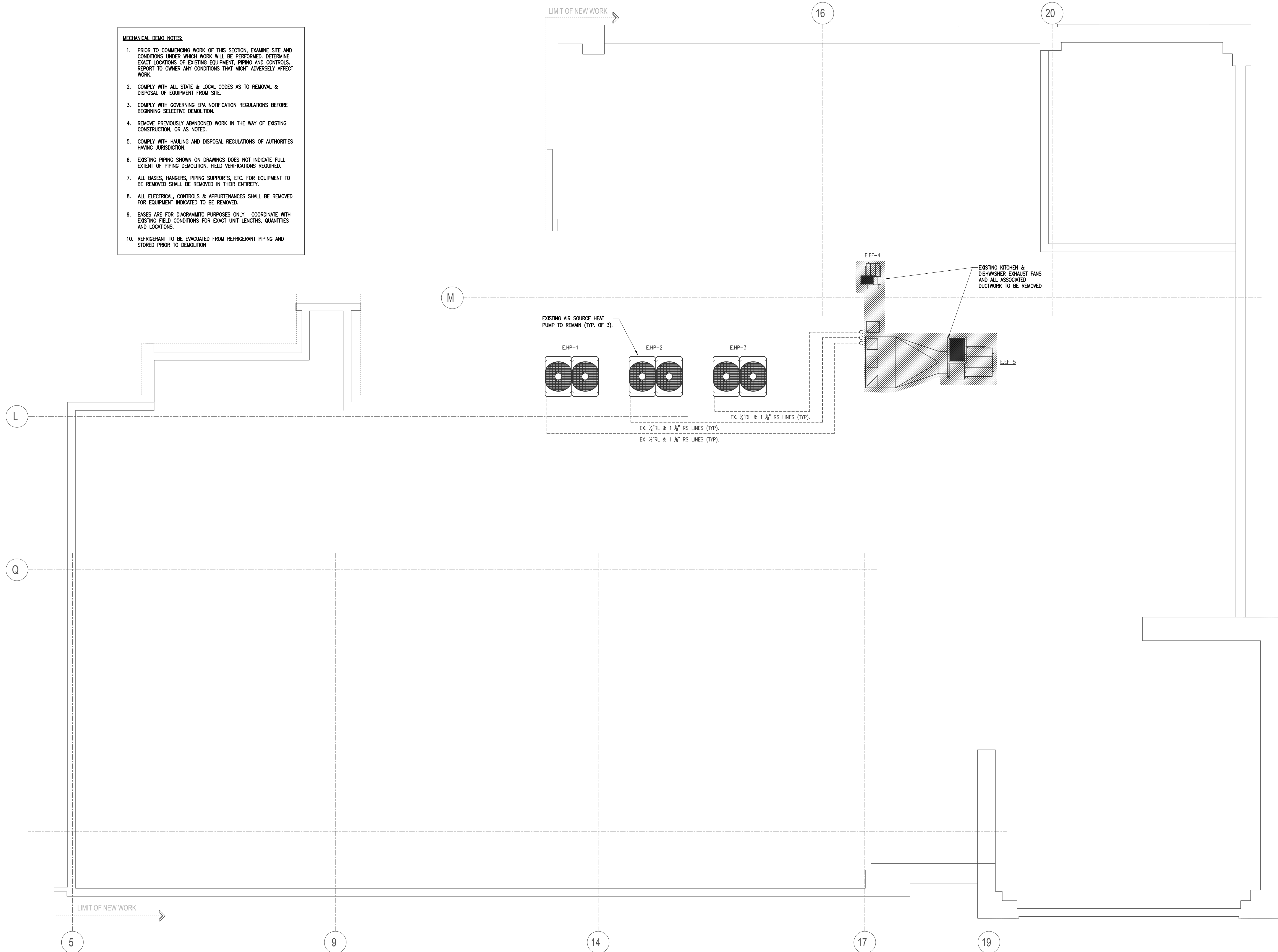
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Mark

Date

Revisions

Date

08/26/2020

Scale

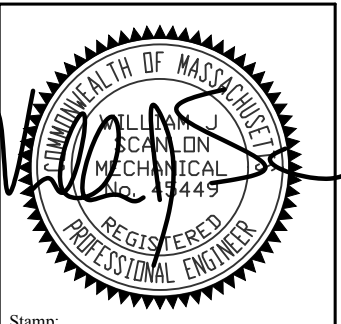
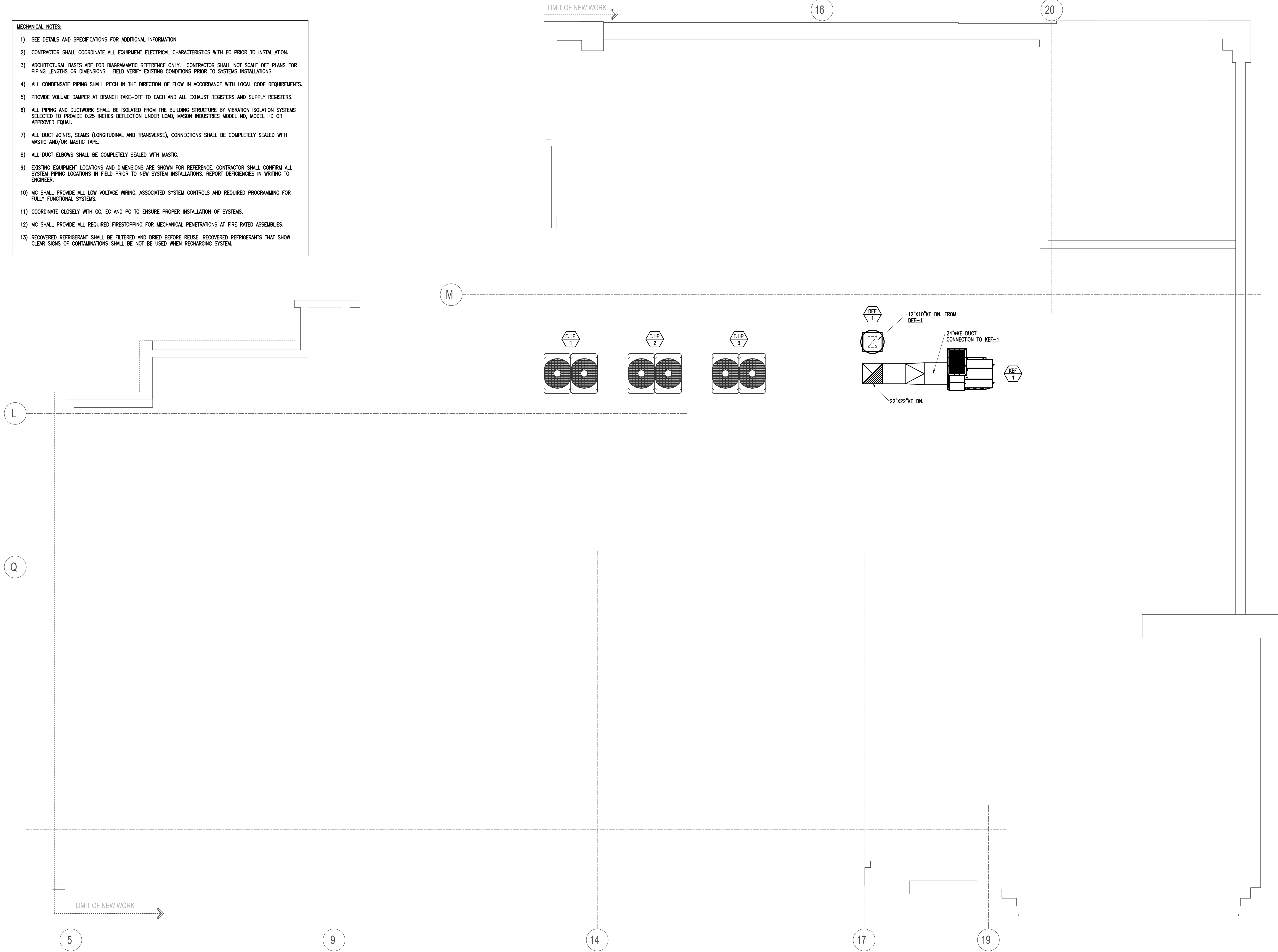
Job No.

2196

Sheet No.

HD101

- MECHANICAL NOTES:
- 1) SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 2) CONTRACTOR SHALL COORDINATE ALL EQUIPMENT ELECTRICAL CHARACTERISTICS WITH EC PRIOR TO INSTALLATION.
 - 3) ARCHITECTURAL BASES ARE FOR DIAGRAMMATIC REFERENCE ONLY. CONTRACTOR SHALL NOT SCALE OFF PLANS FOR PIPING LENGTHS OR DIMENSIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SYSTEMS INSTALLATIONS.
 - 4) ALL CONDENSATE PIPING SHALL PITCH IN THE DIRECTION OF FLOW IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
 - 5) PROVIDE VOLUME DAMPER AT BRANCH TAKE-OFF TO EACH AND ALL EXHAUST REGISTERS AND SUPPLY REGISTERS.
 - 6) ALL PIPING AND DUCTWORK SHALL BE ISOLATED FROM THE BUILDING STRUCTURE BY VIBRATION ISOLATION SYSTEMS SELECTED TO PROVIDE 0.25 INCHES DEFLECTION UNDER LOAD, MASON INDUSTRIES MODEL ND, MODEL HD OR APPROVED EQUAL.
 - 7) ALL DUCT JOINTS, SEAMS (LONGITUDINAL AND TRANSVERSE), CONNECTIONS SHALL BE COMPLETELY SEALED WITH MASTIC AND/OR MASTIC TAPE.
 - 8) ALL DUCT ELBOWS SHALL BE COMPLETELY SEALED WITH MASTIC.
 - 9) EXISTING EQUIPMENT LOCATIONS AND DIMENSIONS ARE SHOWN FOR REFERENCE. CONTRACTOR SHALL CONFIRM ALL SYSTEM PIPING LOCATIONS IN FIELD PRIOR TO NEW SYSTEM INSTALLATIONS. REPORT DEFICIENCIES IN WRITING TO ENGINEER.
 - 10) MC SHALL PROVIDE ALL LOW VOLTAGE WIRING, ASSOCIATED SYSTEM CONTROLS AND REQUIRED PROGRAMMING FOR FULLY FUNCTIONAL SYSTEMS.
 - 11) COORDINATE CLOSELY WITH GC, EC AND PC TO ENSURE PROPER INSTALLATION OF SYSTEMS.
 - 12) MC SHALL PROVIDE ALL REQUIRED FIRESTOPPING FOR MECHANICAL PENETRATIONS AT FIRE RATED ASSEMBLIES.
 - 13) RECOVERED REFRIGERANT SHALL BE FILTERED AND DRIED BEFORE REUSE. RECOVERED REFRIGERANTS THAT SHOW CLEAR SIGNS OF CONTAMINATIONS SHALL BE NOT BE USED WHEN RECHARGING SYSTEM.



110 GRILL
PORTSMOUTH, NH
99 HANOVER STREET, PORTSMOUTH, NH

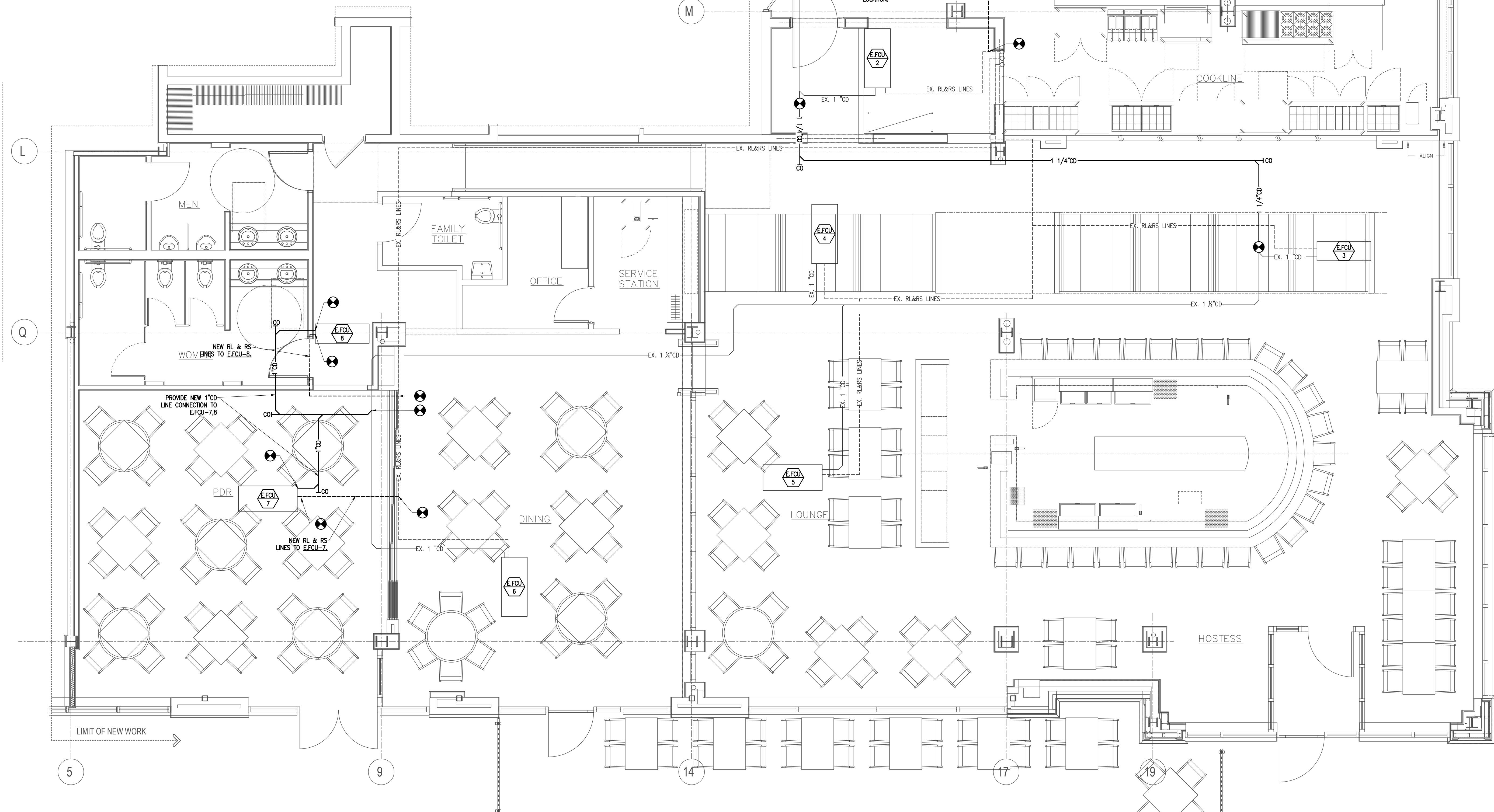
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title
HVAC
ROOF
NEW WORK PLAN

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Date	08/26/2020
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Job No.	2196
Sheet No.	

H101

- MECHANICAL NOTES:
- 1) SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
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 - 5) PROVIDE VOLUME DAMPER AT BRANCH TAKE-OFF TO EACH AND ALL EXHAUST REGISTERS AND SUPPLY REGISTERS.
 - 6) ALL PIPING AND DUCTWORK SHALL BE ISOLATED FROM THE BUILDING STRUCTURE BY VIBRATION ISOLATION SYSTEMS SELECTED TO PROVIDE 0.25 INCHES DEFLECTION UNDER LOAD, MASON INDUSTRIES MODEL NO. MODEL HD OR APPROVED EQUAL.
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 - 13) RECOVERED REFRIGERANT SHALL BE FILTERED AND DRIED BEFORE REUSE. RECOVERED REFRIGERANTS THAT SHOW CLEAR SIGNS OF CONTAMINATIONS SHALL BE NOT BE USED WHEN RECHARGING SYSTEM.
 - 14) PROVIDE REFRIGERANT ISOLATION VALVES FOR EVERY NEW REFRIGERANT LINE TO BE INSTALLED AND RECONNECTED BACK TO EXISTING SYSTEM.



JD

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HVAC
FIRST FLOOR
PIPING PLAN

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	08/26/2020	

Scale

Job No. 2196

Sheet No.

H200

