

THESE DRAWINGS ARE FOR THE CONSTRUCTION OF THE PROJECT LISTED ABOVE AND ARE NOT TO BE COPIED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF ZDS, INC. THE GENERAL CONTRACTOR SHALL NOT SCALE DRAWINGS FOR MEASUREMENTS, BUT SHALL VERIFY ALL LEVELS AND MEASUREMENTS NECESSARY FOR COMPLETE FABRICATION, ASSEMBLY AND INSTALLATION OF THE WORK. MINOR DETAILS OF THE WORK NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL BE ASCERTAINED BY THE CONTRACTOR AT THE SITE OF THE WORK, AND SHALL BE ACCOMPLISHED WITH THE INTENT OF THIS PROJECT.

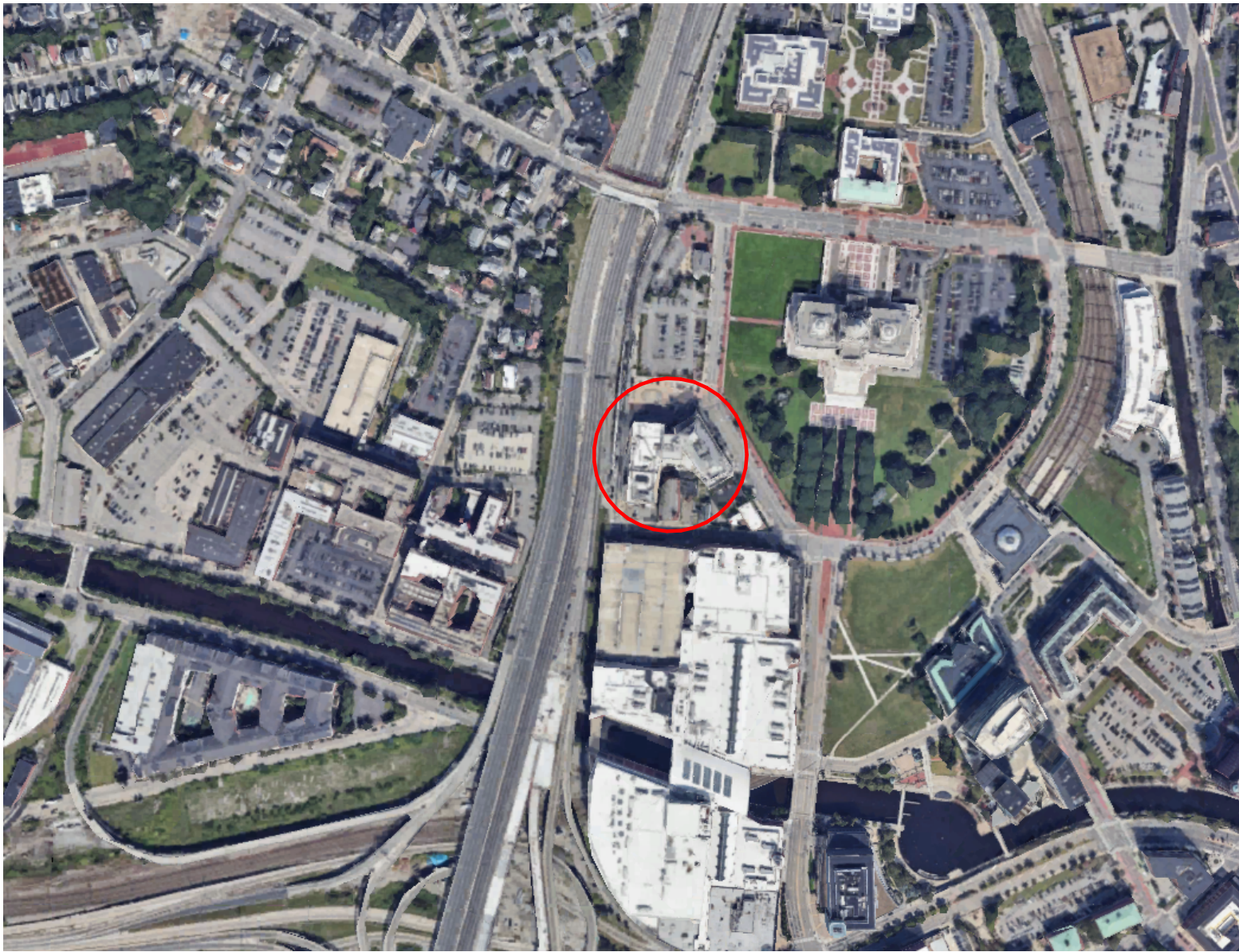
VETS MEMORIAL CONCESSION STAND

1 AVE OF THE ARTS, PROVIDENCE, RI 02903

ISSUED FOR BID

JULY 1, 2026

LOCUS MAP



THEVETS

**VETERANS
MEMORIAL
AUDITORIUM**

1 AVE OF THE ARTS,
PROVIDENCE, RI 02903

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MEPFP CONSULTANT



BUILDING ENGINEERING
RESOURCES, INC.

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GENERAL NOTES

A: GENERAL

- THE CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE SITE PRIOR TO BID SUBMITTAL TO BECOME FAMILIAR WITH CONDITIONS AT THE SITE AFFECTING PERFORMANCE OF THE WORK.
- THE WORK SHALL COMPLY WITH ALL GOVERNING STATE AND LOCAL CODES. ACCESSIBLE SPACES AND WORK SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY CODES
- UNLESS OTHERWISE AGREED TO IN WRITING WITH THE OWNER, THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL PERMITS (BUILDING, OCCUPANCY, ETC.) AND FEES FOR SAME, AS REQUIRED BY STATE AND LOCAL RULES AND REGULATIONS.
- DAMAGES TO THE BUILDING OR PROPERTY DUE TO CONTRACT OPERATIONS MUST BE REPORTED IMMEDIATELY TO THE BUILDING OWNER.
- THE OWNER RESERVES THE RIGHT TO PERFORM ADDITIONAL WORK THAT IS NOT PART OF THIS CONTRACT WITH HIS OWN FORCES, UNDER SEPARATE CONTRACTS AND/OR WITH OTHER CONTRACTORS OR VENDORS. THE CONTRACTOR SHALL COOPERATE WITH THE OWNER AND OTHER CONTRACTORS AND COORDINATE HIS WORK WITH THE OWNER SO THAT WORK BY OTHERS CAN BE INCORPORATED IN A TIMELY MANNER.
- THE CONTRACTOR SHALL REPLACE OR REMEDY FAULTY, IMPROPER OR INFERIOR MATERIALS OR WORKMANSHIP WHICH SHALL APPEAR WITHIN ONE (1) YEAR OR AS OTHERWISE SPECIFIED FOR A SPECIFIC COMPONENT AFTER COMPLETION AND ACCEPTANCE OF THE WORK. SUCH WORK IS TO BE COMPLETED AT NO COST TO THE OWNER.
- FURNISH AND INSTALL MATERIALS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. MATERIALS AND METHODS OF INSTALLATION TO CONFORM WITH THE APPROPRIATE NATIONAL TRADE HANDBOOKS; I.E. ARCHITECTURAL WOODWORK INSTITUTE'S QUALITY STANDARDS, UNITED STATES GYPSUM, GYPSUM CONSTRUCTION HANDBOOK, ETC.

B: COORDINATION

- THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE WORK, CONSTRUCTION SEQUENCING, SUBCONTRACTORS, AND INSTALLED LOCATION AND INTERFACE OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SYSTEMS AND EQUIPMENT WITH STRUCTURE, ARCHITECTURE, CEILING HEIGHTS, AND OTHER WORK.
- DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND COORDINATE ALL CONTRACT DOCUMENTS BEFORE INSTALLATION OF THE WORK. THE CONTRACTOR SHALL CLARIFY DISCREPANCIES WITH THE ARCHITECT PRIOR TO COMMENCING THE WORK IN QUESTION.
- MATTERS WITHIN THE SPECIFICATIONS WHICH MAY HAVE BEEN OMITTED IN THE DRAWINGS OR VICE VERSA SHALL BE CONSTRUED AS THOUGH CONTAINED IN BOTH.
- SHOULD THE SPECIFICATIONS AND THE DRAWINGS DISAGREE WITH THEMSELVES OR WITH EACH OTHER, PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE ARCHITECT, UNLESS OTHERWISE DIRECTED BY APPROVED CHANGE ORDER.
- ALTERATIONS/DEVIATION FROM THE CONTRACT DOCUMENTS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND WRITTEN APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN IN THE CONTRACT DOCUMENTS OR NOT, AND TO PROTECT THE UTILITIES FROM DAMAGE. REPAIR OR REPLACE UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH PERFORMANCE OF THE WORK AT THE EXPENSE OF THE CONTRACTOR.

B: COORDINATION (CONT.)

- PROVIDE BACK-BLOCKING FOR SUPPORT AND ATTACHMENT OF MOUNTED ITEMS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL WOODWORK, WALL AND/OR CEILING MOUNTED FINISHES, EQUIPMENT AND ACCESSORIES, GRAB BARS, CABINETRY, FIXTURES, SIGNAGE, ETC. COORDINATE LOCATIONS WITH ARCH/OWNER.
- PROVIDE ROUGH-INS AND WIRING FOR DATA AND PHONE OUTLETS WHERE REQUIRED BY OWNER. OWNER'S VENDOR SHALL PROVIDE TERMINAL DEVICES, UNLESS REQUIRED OTHERWISE.

C: MEASUREMENTS & DIMENSIONS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND SHALL INFORM THE ARCHITECT OF DISCREPANCIES AFFECTING PROPER COMPLETION OF THE WORK.
- DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS. TAKE WORKING DIMENSIONS FROM THE FIGURED DIMENSIONS, OR BY ACTUAL MEASUREMENTS TAKEN IN THE FIELD. DEVIATION FROM THE DOCUMENTS AND THE DIMENSIONS GIVEN IN THE DRAWINGS MUST BE APPROVED BY THE ARCHITECT IN WRITING PRIOR TO COMPLETION OF THE WORK IN QUESTION.

D: MATERIAL REQUIREMENTS

- WOOD IN CONTACT WITH CONCRETE OR STEEL TO BE PRESSURE TREATED.
- COMBUSTIBLE MATERIALS ARE NOT ALLOWED IN CONCEALED SPACES AS DETERMINED BY CODE.
- STRUCTURE SHALL BE RATED AS NOTED ON CODE DRAWINGS. MAINTAIN RATINGS OF FIRE-RATED ASSEMBLIES.
- PAINTING, VARNISHING OR THE USE OF OTHER NOXIOUS SUBSTANCES MUST BE ISOLATED FROM ADJOINING SPACES.
- PROVIDE ATTIC STOCK FOR MATERIALS. COORDINATE QUANTITIES AND SCHEDULE WITH THE OWNER.

E: DEFINITIONS AND METHODOLOGIES

- DIMENSIONS, ANNOTATIONS, NOTES, FINISHES, FIXTURES SHOWN ON TYPICAL FLOOR PLANS, SECTIONS OR DETAILS SHALL APPLY TO SIMILAR, SYMMETRICAL OR OPPOSITE PLANS, SECTIONS OR DETAILS.
- TYPICAL, OR "TYP" MEANS THAT THE CONDITION IS REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT, UNLESS REQUIRED OTHERWISE.

ABBREVIATIONS

ACOUST	ACOUSTICAL	MAX	MAXIMUM
ACC	ACCESSIBLE	MDO	MEDIUM DENSITY OVERLAY
ACS	ARCHITECTURAL CAST STONE	MECH	MECHANICAL
ACT	ACOUSTIC CEILING TILE	MANF	MANUFACTURER
ADJ	ADJUSTABLE	MIN	MINIMUM
AFF/A.F.F.	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
ALUM	ALUMINUM	MO	MASONRY OPENING
ANOD	ANODIZED	MTL	METAL
ARCH	ARCHITECT (URAL)	N	NORTH
AUTO	AUTOMATIC	NA/ N/A	NOT APPLICABLE
BD	BOARD	NIC	NOT IN CONTRACT
BLDG	BUILDING	NOM	NOMINAL
BLKG	BLOCKING	NTS	NOT TO SCALE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	OC	ON CENTER
CJ	CONTROL JOINT	OD	OUTSIDE DIAMETER
CL	CENTER LINE	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CLG	CEILING	OFOI	OWNER FURNISHED OWNER INSTALLED
CLO	CLOSET	OPG	OPENING
CLR	CLEAR(ANCE)	OH	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	PART	PARTITION
CONC	CONCRETE	PNT/PTD	PAINT
CONST	CONSTRUCTION	PL	PLATE
CONT	CONTINUE/CONTINUOUS	PLAM	PLASTIC LAMINATE
CPT	CARPET	PLUM-	PLUMB(ING)
CT	CERAMIC TILE	PLY/PLYWD	PLYWOOD
CTR	CENTER	PAIR	PAIR
DBL	DOUBLE	PSI	POUNDS/SQUARE INCH
DIA	DIAMETER	PT	PRESSURE TREATED
DIM	DIMENSION	PVC	POLYVINYL CHLORIDE
DS	DOWN SPOUT	RAD	RADIUS
DTL	DETAIL	RD	ROOF DRAIN
DWG(S)	DRAWING(S)	REF	REFER
E	EACH	REFR	REFRIGERATOR
EJ	EXPANSION JOINT	REINF	REINFORCE
ELEC	ELECTRIC(AL)	REQ/REQ'D	REQUIRED
ELEV	ELEVATION	RH	RIGHT HAND
ELVT	ELEVATOR	RHR	RIGHT HAND REVERSE
EQ	EQUAL	RM	ROOM
EQUIP	EQUIPMENT	RO	ROUGH OPENING
EXT	EXTERIOR OR EXTENDED	ROW	RIGHT OF WAY
EXG	EXISTING	R&S	ROD & SHELF
FD	FLOOR DRAIN, REF: PLUMBING FOR SIZE AND TYPE	S	SOUTH
FE	FIRE EXTINGUISHER	SCW	SOLID CORE WOOD
FEC	FIRE EXTINGUISHER CABINET	SCHED	SCHEDULE
FIN	FINISH	SECT	SECTION
FFE	FURNITURE, FIXTURE & EQUIPMENT	SIHT	SHEET
FT	FOOT	SIM	SIMILAR
FR	FIRE RATED	SPEC	SPECIFICATION
FRT	FIRE RESISTANT TREATED WOOD	SQ	SQUARE
FRP	FIBERGLASS REINFORCED PANEL	SS	STAINLESS STEEL
GA	GALVANIZED	STD	STANDARD
GLAV	GENERAL CONTRACTOR	STL	STEEL
GC	GLASS/GLAZING	STO	STORAGE
GL	GUEST	STRU/C, S-	STRUCTURAL
GU	GYPSUM WALL BOARD	SUSP	SUSPENDED
GWB	GYPSUM	SYM	SYMMETRICAL
GYP	GYPSUM	SYS	SYSTEM
HB	HOSE BIB	TELE	TELEPHONE
HC	HOLLOW CORE	TEMP	TEMPERED
HDWR	HARDWARE	T&G	TONGUE & GROOVE
HH	HEAD HEIGHT	TC	TOP OF CURB
HM	HOLLOW METAL	TLT	TOILET
HR	HOUR	TP	TOP OF PAVEMENT
HT	HEIGHT	TV	TELEVISION
HVAC	HEAT/VENT/AIR CONDITION	TYP	TYPICAL
ID	INSIDE DIAMETER	UNO/UON	UNLESS NOTED OTHERWISE
INCL	INCLUDE(D)	VCT	VINYL COMPOSITION TILE
INSUL	INSULATION	VIF/V.I.F.	VERIFY IN FIELD
INT	INTERIOR	VVC	VINYL WALL COVERING
JT	JOINT	W	WEST
KD	KNOCK DOWN	W/	WITH
KP	KICK PLATE	WC	WATER CLOSET
LAM	LAMINATE	WD	WOOD
LAV	LAVATORY	WM	WIRE MOLD BASE, REF: ELECT.
LAV	LAVATORY	W/O	WITHOUT
LH	LEFT HAND	WRB	WATER RESISTANT
LHR	LEFT HAND REVERSE	WTR	WATER
MAS	MASONRY	WWF	WELDED WIRE FABRIC
MAT	MATERIAL		

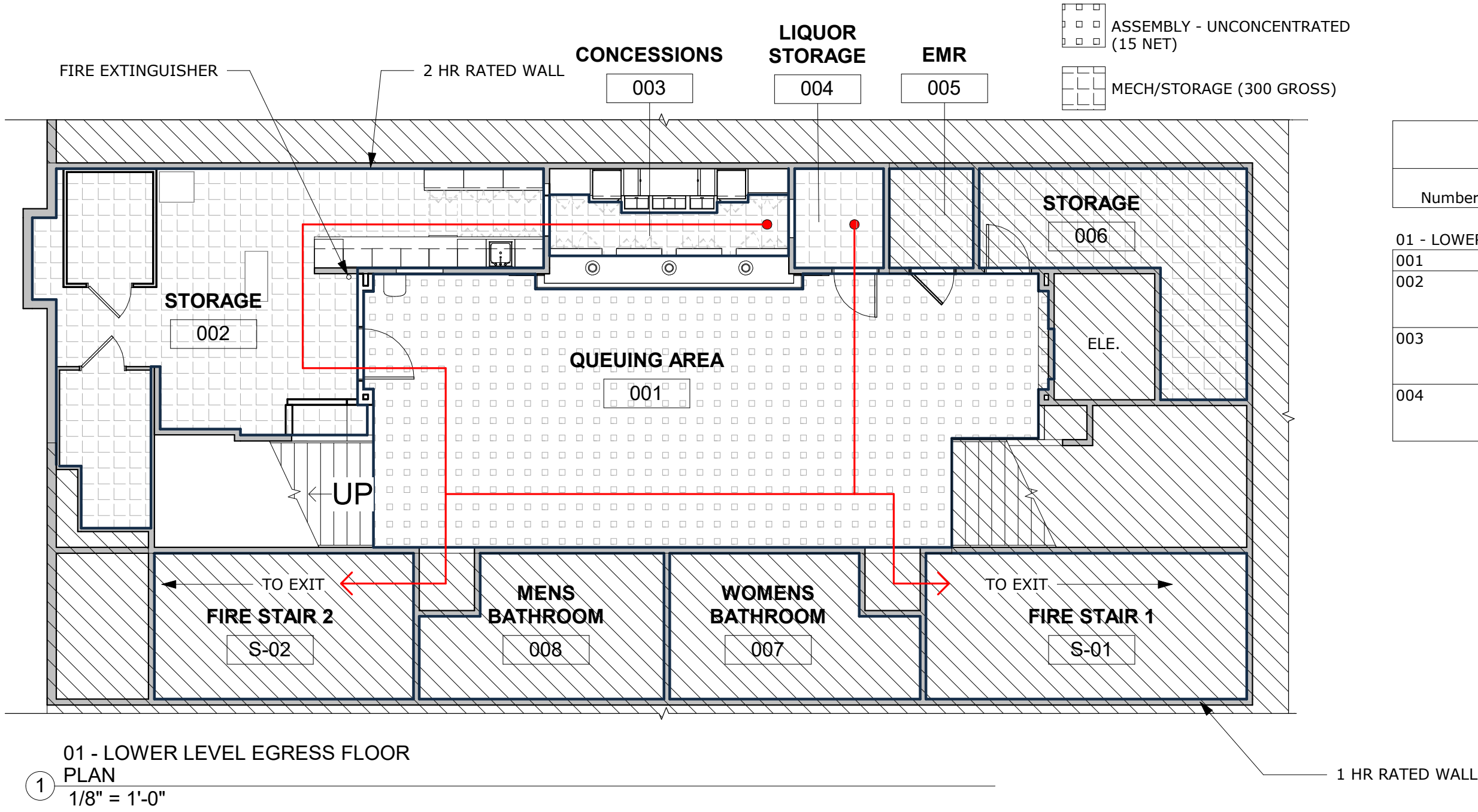
SYMBOLS LEGEND

VIEW REFERENCES:		
1 View Name 1/8" = 1'-0"		PLAN/ELEVATION/DETAIL TITLE TAG
1 A101		CALLOUT REFERENCE
1 A101 1		INTERIOR/EXTERIOR ELEVATION REFERENCE TAG
1 A101		BUILDING SECTION TAG
1 A101		WALL SECTION TAG
1 A101		DETAIL REFERENCE
ELEMENT TAGS:		
Room name 101 150 SF 101A	ROOM NAME/NO.	X CURTAIN WALL PANEL TAG
	DOOR TAG	MWXX CASEWORK TAG
X' - X"	CEILING HEIGHT TAG	? FINISH/MATL TAG
X	WINDOW / CURTAIN-WALL TAG	XX-XXX FURNITURE, FIXTURE, & EQUIPMENT TAG
REVISIONS:		
TYPE PREFIXES: A = ADDENDUM B = BULLETIN R = REVISION	A TYPE	001 NUMBER

INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME	SUBMISSION 06/19/2026
C1	COVER & GENERAL NOTES	X
G1.00	CODE, ZONING, EGRESS	X
D1.01	DEMO FLOOR PLAN	X
A0.01	DOOR TYPES & SCHEDULE & WALL ASSEMBLY	X
A1.00	PROPOSED FLOOR PLAN & RCP	X
A1.01	PROPOSED EQUIPMENT PLAN	X
A5.00	ENLARGED PLANS & ELEVATIONS - CONCESSIONS	X
A5.01	ENLARGED PLAN - STORAGE AREA	X
A5.02	ENLARGED ELEVATIONS - STORAGE AREA	X
A5.03	PROPOSED INTERIOR ELEVATIONS	X
A6.00	BAR ENLARGED DETAILS	X
A6.01	STORAGE & BAR ENLARGED DETAILS	X
A7.00	HARD FINISH SCHEDULE	X
P0.1	PLUMBING LEGEND, NOTES, DETAILS & SCHEDULES	X
P1.0	PLUMBING DEMO FLOOR PLAN	X
P2.0	PLUMBING PROPOSED FLOOR PLAN	X
P3.0	PLUMBING SPECIFICATIONS	X
P3.1	PLUMBING SPECIFICATIONS	X
FP0.1	FIRE PROTECTION LEGEND, NOTES, & DETAILS	X
FP1.0	FIRE PROTECTION DEMO FLOOR PLAN	X
FP2.0	FIRE PROTECTION PROPOSED FLOOR PLAN	X
FP3.0	FIRE PROTECTION SPECIFICATIONS	X
M0.1	MECHANICAL LEGEND, SCHEDULE, & SPECIFICATIONS	X
M1.0	MECHANICAL DEMOLITION FLOOR PLAN	X
M1.1	MECHANICAL PROPOSED FLOOR PLAN	X
E0.1	ELECTRICAL LEGEND, AND NOTES	X
E1.0	ELECTRICAL PROPOSED FLOOR PLAN - LIGHTING	X
E2.0	ELECTRICAL PROPOSED FLOOR PLAN - POWER	X
E2.1	ELECTRICAL PROPOSED KITCHEN PLAN - POWER	X
E3.0	ELECTRICAL SPECIFICATIONS	X
ED1.0	ELECTRICAL DEMO FLOOR PLAN - LIGHTING	X
FA1.0	ELECTRICAL FLOOR PLAN - FIRE ALARM	X
FA2.0	ELECTRICAL - FIRE ALARM SPECIFICATIONS	X

EGRESS PLAN



OCCUPANCY CALCULATIONS					
Number	Name	Occupancy	Area	Occupancy Load Factor	Occupant Load
01 - LOWER LEVEL					
001	QUEUING AREA	NO CHANGE	1172 SF	0 SF	0
002	STORAGE	STORAGE/MECHANICAL (300SF)	448 SF	300 SF	1
003	CONCESSIONS	KITCHEN COMMERCIAL (200 SF)	122 SF	200 SF	1
004	LIQUOR STORAGE	STORAGE/MECHANICAL (300SF)	43 SF	300 SF	0
			1784 SF		2

CODE

EXISTING BUILDING DATA	
CURRENT USE GROUP:	A1 (SECTION 303.2)
CONSTRUCTION TYPE:	2B
HEIGHT:	+/- 92' & 6 STORIES

CODE SUMMARY		
ENFORCING AGENCY: CITY OF PROVIDENCE		
APPLICABLE CODES - FIRE & LIFE SAFETY CODE - RI STATE BUILDING (RI SBC-1) - RI STATE REHAB BUILDING (RI SRC-1) - PLUMBING CODE (RI SBC-3) - MECHANICAL CODE (RI SBC-4) - ELECTRICAL CODE (RI SBC-5) - ENERGY CONSERVATION CODE (RI SBC-8) - ACCESSIBILITY CODE NFPA 1 AND NFPA 101 LIFE SAFETY CODE 2018 INTERNATIONAL BUILDING CODE 2021 + RI AMEND. INTERNATIONAL EXISTING BUILDING CODE 2018 + RI AMEND. INTERNATIONAL PLUMBING CODE 2018 + RI AMEND. INTERNATIONAL MECHANICAL CODE 2018 + RI AMEND. NATIONAL ELECTRICAL CODE 2020 + RI AMEND. INTERNATIONAL ENERGY CONSERVATION CODE 2018 + RI AMEND. ANSI 117.1 VERSION 2009		
CODE DESCRIPTION	DESCRIPTION OR NOTES	CODE SECTION
PROPOSED USE GROUP	A-1 & S-1 (NO CHANGE)	IBC SECTION 303.2 & 311.1
CONSTRUCTION TYPE	2B - ASSUMED (NO CHANGE)	IBC TABLE 601
TOTAL BUILDING AREA (GSF)	+/- 129,922 SF (NO CHANGE)	
WORK AREA (GSF)	+/- 3,074 SF	
ZONING SUMMARY		
PLAT: 004, LOT: 258, ZONE: D-1-10		
DESCRIPTION OF WORK: THE VETERANS MEMORIAL THEATER IS A PERFORMING ARTS CENTER LOCATED IN PROVIDENCE, RHODE ISLAND. THE SCOPE OF WORK FOR THIS PROJECT INVOLVES THE RENOVATION OF THE LOWER-LEVEL CONCESSION STAND. THE RENOVATION INCLUDES UPGRADES TO THE EXISTING BAR AND QUEUING AREA. IN ADDITION, BACK-OF-HOUSE FUNCTIONS WILL BE IMPROVED AND BETTER COORDINATED THROUGH MORE EFFICIENT LAYOUT AND PLACEMENT.		

EGRESS REQUIREMENTS	REQUIRED	PROVIDED	SECTION NFPA / IBC 2021
NUMBER OF EXITS REQUIRED	2	2	39.2.4.3 LSC / 1006.3
MAXIMUM TRAVEL DISTANCE	100' - 0"	+/- 65'-0"	39.2.6.2 LSC / 407.4.4.3
MINIMUM CORRIDOR WIDTH	44"	89" (NC)	7.3.4.1 LSC / 1020.2
MINIMUM STAIR WIDTH	.3"/OCC (44" MIN.)	84" MIN (NC)	7.3.3.1 LSC / 403.5.2
MINIMUM DOOR WIDTH	.2"/OCC (32")	32" MIN (NC)	7.3.3.1 LSC / 1005.3.2
MAXIMUM COMMON PATH OF TRAVEL	100'	+/- 84'-0"	39.2.5.3.1 LSC / 1028.7
MINIMUM EGRESS CEILING HEIGHT	7'-6" (90")	8'-0" MIN	7.1.5.1 LSC / 1003.2
PROTRUDING OBJECTS: 1. 80" MIN HEADROOM 2. 4" MAX PROJECTION FROM 27" - 80" IN HEIGHT			

INTERIOR FINISHES	
A.	INTERIOR WALL & CEILING FINISHES SHALL COMPLY WITH NFPA 39.3.3.2 BUSINESS (PROPOSED USE/ADDITION) 1. EXIT ENCLOSURES - CLASS A 2. LOBBIES & CORRIDORS - CLASS A OR B 3. OTHER SPACES - CLASS A, B, C
B.	INTERIOR FLOOR FINISH SHALL COMPLY WITH IBC 804 1. ALL EXIT ENCLOSURES SHALL NOT BE LESS THAN CLASS I OR II 2. ALL FLOORS HAVE TO HAVE SLIP RESISTANT SURFACES

EGRESS CODE & USE GROUP SYMBOLS			
.....	1/2 HOUR FIRE RATED WALL	- - - -	COMMON PATH OF TRAVEL
-----	1 HOUR FIRE RATED WALL	- . - . - .	MAXIMUM TRAVEL DISTANCE
- - - -	2 HOUR FIRE RATED WALL	FEC	FIRE EXTINGUISHER TAG

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STAMP

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PROJECT NAME
VETS MEMORIAL CONCESSION STAND
1 AVE OF THE ARTS, PROVIDENCE, RI 02903

PROJECT NO. 25114
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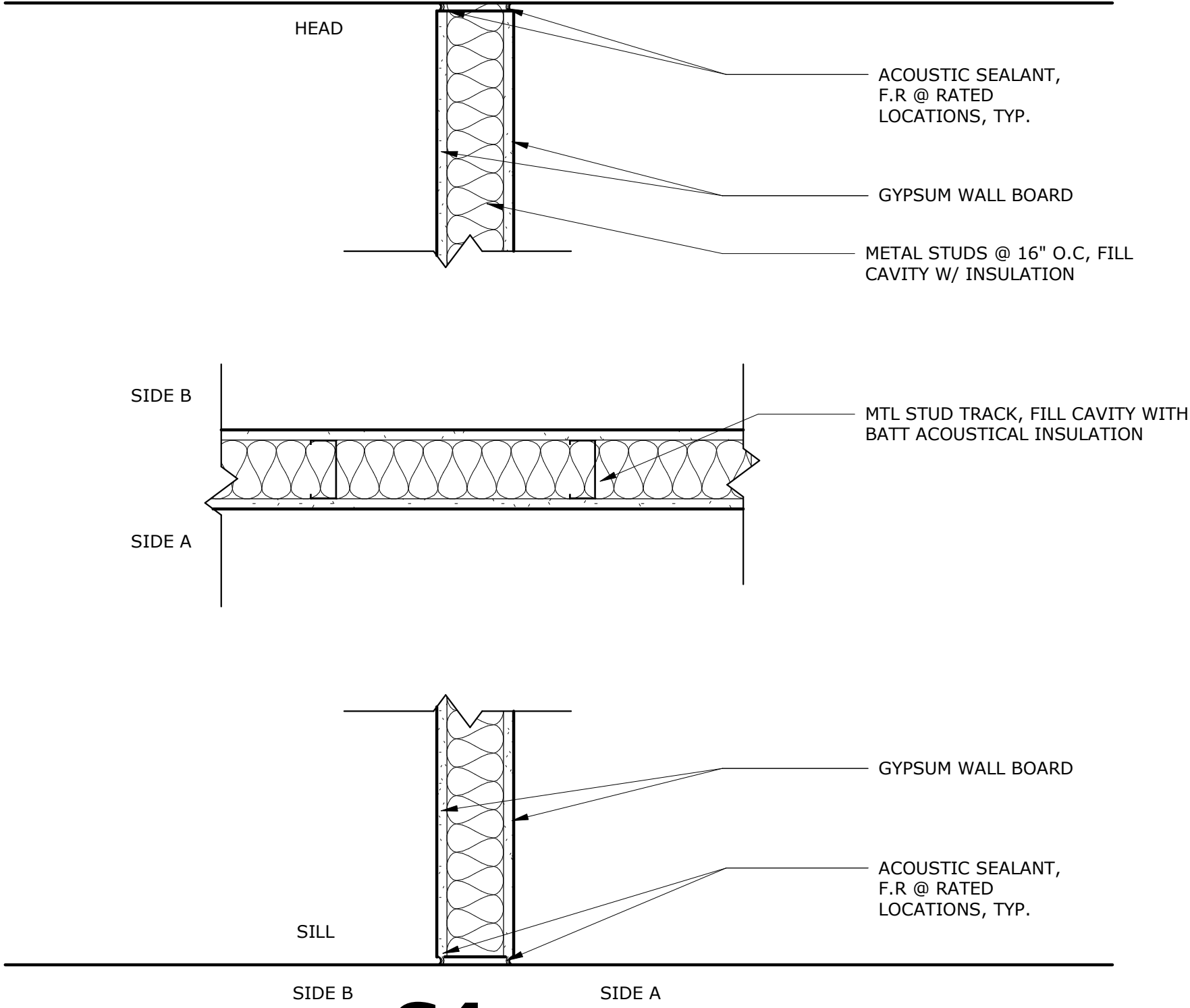
ISSUED FOR BID

ISSUED DATE: JULY 1, 2026
SHEET TITLE
CODE, ZONING, EGRESS

DRAWING NO.
G1.00

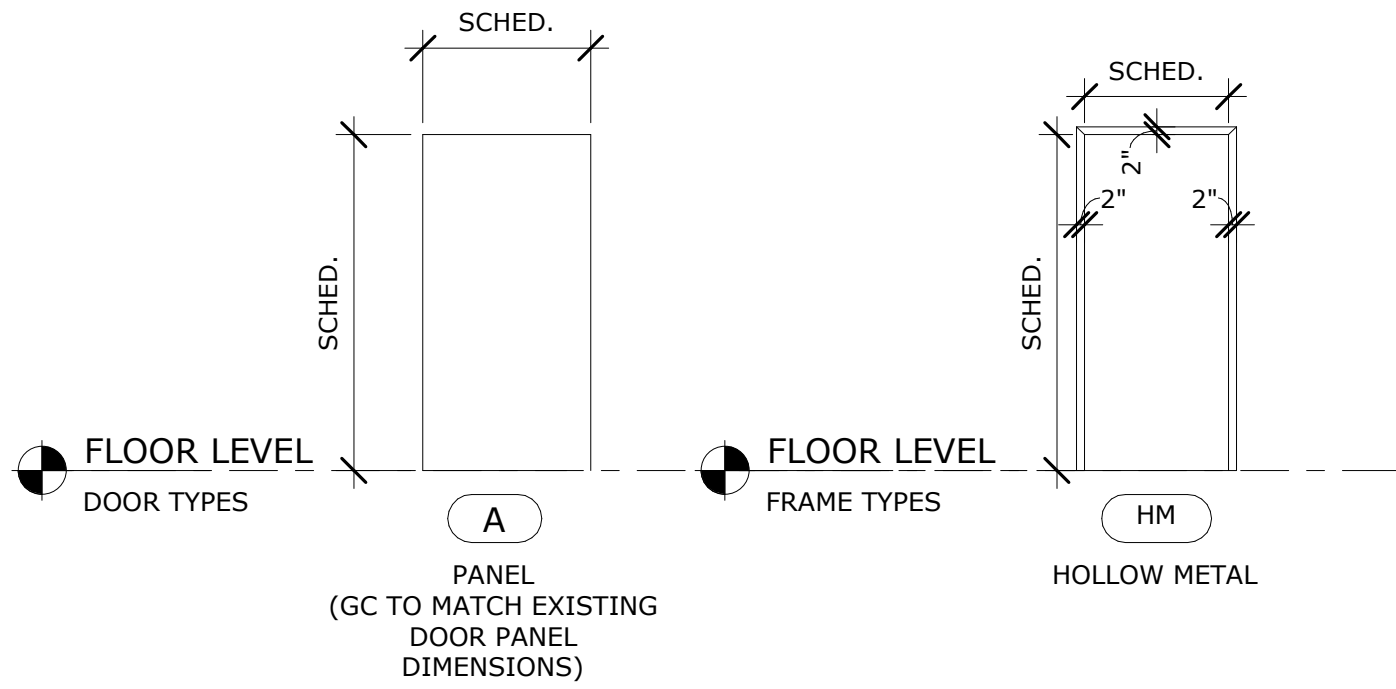
CONCEPTUAL RENDERING





METAL STUD FRAMING										
TYPE	OVERALL WIDTH	FRAMING SIZE	SIDE A		SIDE B		INSUL	FIRE RATING	FIRE TEST	COMMENTS
			TYPE	THICK	TYPE	THICK				
S4A	4 7/8"	3 5/8"	GW	5/8"	GW	5/8"	BATT	0		
S4D	4 1/4"	3 5/8"	GW	5/8"			BATT	0		

○ PARTITION TYPES - INTERIOR WD
1 1/2" = 1'-0"



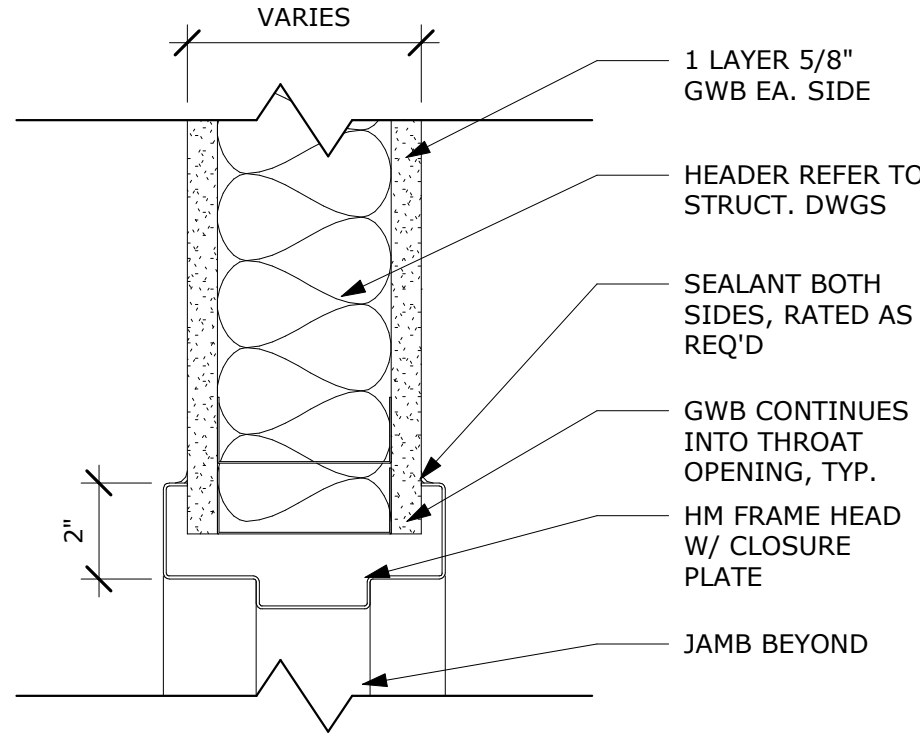
DOOR SCHEDULE										
MARK	DOOR LOCATION	WIDTH	HEIGHT	THICK	DOOR			FRAME		FIRE RATING
					TYPE	MATL.	FIN.	TYPE	HWS	
001	STORAGE	3' - 6"	7' - 0"	1 3/4"	A	M	PTD	HM	1	-
004	LIQUOR STORAGE	3' - 0"	7' - 0"	1 3/4"	A	M	PTD	HM	1	-

- GENERAL DOOR NOTES**
- REFER TO MANUFACTURER FOR EXACT R.O. DIMENSIONS.
 - THRESHOLDS TO CONFORM TO ADA STANDARDS.
 - ALL DOORS TO HAVE FULLY WELDED FRAMES.
 - PROVIDE A KNURLED FINISH ON LEVERS ON THE KEY SIDE OF ALL DOORS THAT LEAD TO HAZARDOUS AREA, SPECIFICALLY ELECTRICAL AND MECHANICAL.
 - DOOR CLOSERS SHALL NOT BE VISIBLE FROM THE PUBLIC (CORRIDOR) SIDE OF DOORS.
 - COORDINATE DOORS WITH ACCESS CONTROL AND CARD READERS BY OWNER, AS NEEDED.
 - REFER TO FLOOR PLANS FOR EXACT DOOR SWINGS.
 - HARDWARE SUPPLIER TO PROVIDE HARDWARE IN COMPLIANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
 - COORDINATE ALL CORES AND KEYING WITH OWNERSHIP.
 - CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE DOOR HARDWARE PACKAGE, THE LEAVES THE DOOR SYSTEM FULLY FUNCTIONING WITH ALL REQUIRED COMPONENTS.
 - REFER TO FIRE RATING OF ALL WALLS ON CODE SHEET. DOORS AND OPENINGS SHALL MAINTAIN FIRE RATING PER THE CODE SHEET. ALL COMPONENTS OF THE DOOR (FRAME, HARDWARE, ETC.) ARE TO BE COMPATIBLE WITH THE LISTED RATING.

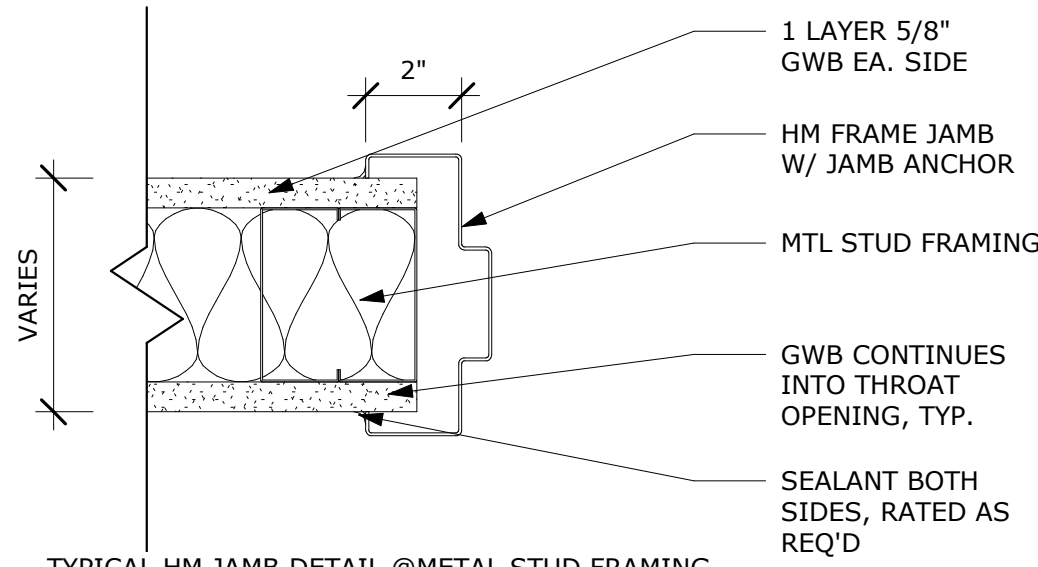
DOOR HARDWARE SET:

HW-1 - STOREROOM (8324)
PROVIDE THREE (3) HINGES, EGRESS PUSH BAR, HANDLE, KEYED LOCKSET (TO MATCH OWNER'S EXISTING SYSTEM), BOTTOM DOOR SWEEP, GASKETING, HOLD OPEN, DOOR STOP AND CLOSER.

BASIS OF DESIGN - LOCKSET - SARGENT 8200 SERIES
PUSH BARS - SARENT 8300 SERIES



TYPICAL HM HEAD DETAIL @METAL STUD FRAMING



TYPICAL HM JAMB DETAIL @METAL STUD FRAMING

① TYPICAL DOOR DETAILS
3" = 1'-0"

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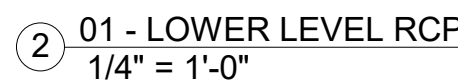
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SHEET TITLE
DOOR TYPES & SCHEDULE & WALL ASSEMBLY

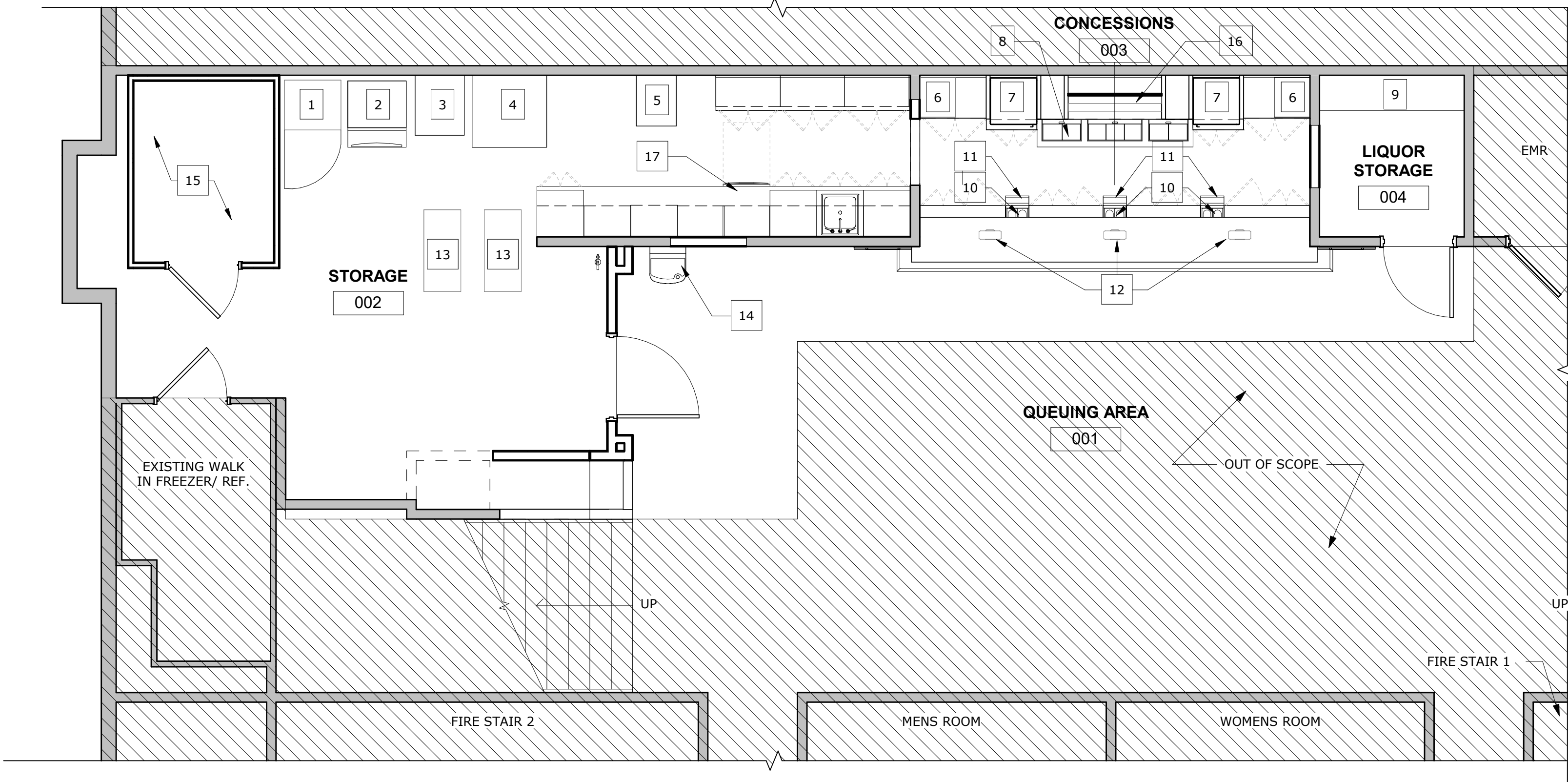
DRAWING NO.

A0.01

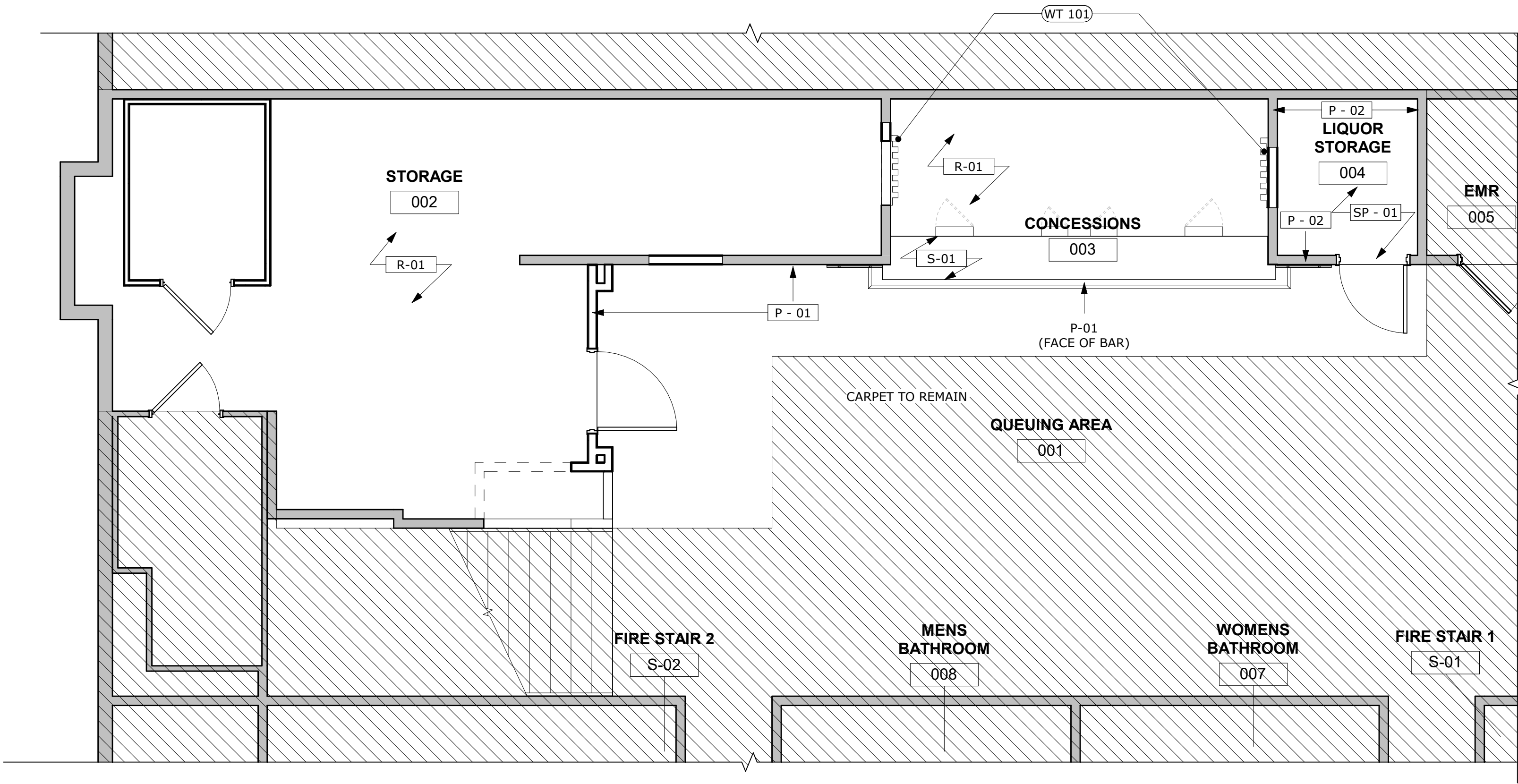


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A1.00

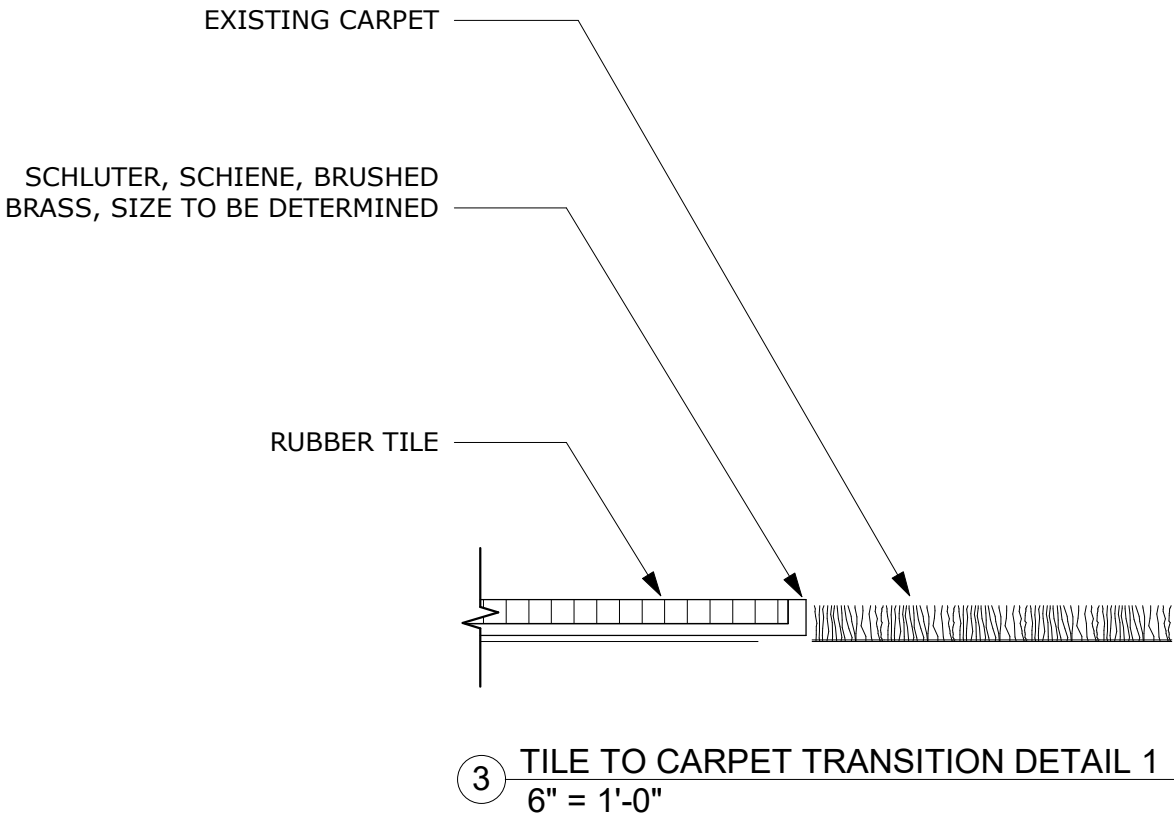


① 01 - LOWER LEVEL EQUIPMENT PLAN
1/4" = 1'-0"



② 01 - LOWER LEVEL FINISH FLOOR PLAN
1/4" = 1'-0"

EQUIPMENT SCHEDULE									
NUMBER	PRODUCT NAME	MANUFACTURER	MODEL	LENGTH	WIDTH	HEIGHT	NEW / EXG	OFCI	CFCI
1	PRODUCT NAME	AVANTO	A-19R-HC	29"	25 1/2"	82 1/2"	NEW	YES	NO
2	ICE MACHINE CHEST	-	-	-	-	-	EXG	YES	NO
3	PROOFING CABINET	VULCAN	VP18	25 1/4"	30 3/4"	71"	NEW	YES	NO
4	DOUBLE ELECTRIC OVEN	BLODGETT	ZEPHAIRE-200-E	36 7/8"	38 1/4"	28 1/4"	NEW	YES	NO
5	ROOLING COOLING RACK	NSF	8559	26"	20 1/2"	69"	NEW	YES	NO
6	COCA-COLA REFRGERATOR	IDW	GS-4	18.25"	20.25"	42"	NEW	YES	NO
7	PRETZEL MERCHANDISER	HATCO	FSDT-1	22.42"	24.11"	32.54"	NEW	YES	NO
8	UNDER CABINET BAR COOLER	TRUE	TD-80-30-HC	80 1/8"	26 7/8"	33 1/2"	NEW	YES	NO
9	STORAGE RACKS	REGENCY	460EC1872K75	72"	18"	74"	NEW	YES	NO
10	ICE CHEST	ADVANCE TABCO	SLI-12-12	12"	12"	33"	NEW	YES	NO
11	SPEEDRAIL	ADVANCE TABCO	SRK-12	12"	5 1/4"	7 3/4"	NEW	YES	NO
12	DUAL SCREEN POS (WORKSTATION)	CLOVER	-	-	-	-	NEW	YES	NO
13	3 SHELF SERVICE CART	ULINE	H-7491	31"	19"	33"	NEW	YES	NO
14	WATER FOUNTAIN	ELKAY	EZS8L	18 3/8"	19"	2'	NEW	NO	YES
15	WALK IN FREEZER	ASTRA	CNF6X8-30R	6' - 7"	8' - 2"	7' - 3"	NEW	YES	NO
16	FLAT SCREEN TV	LG	43UT7550AUA	43"	-	-	NEW	YES	NO
17	DISHWASHER	NOBLE	NOBLE UH30-E	24 1/4"	26"	33 5/16"	NEW	NO	YES



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MEP CONSULTANT
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PROJECT NAME
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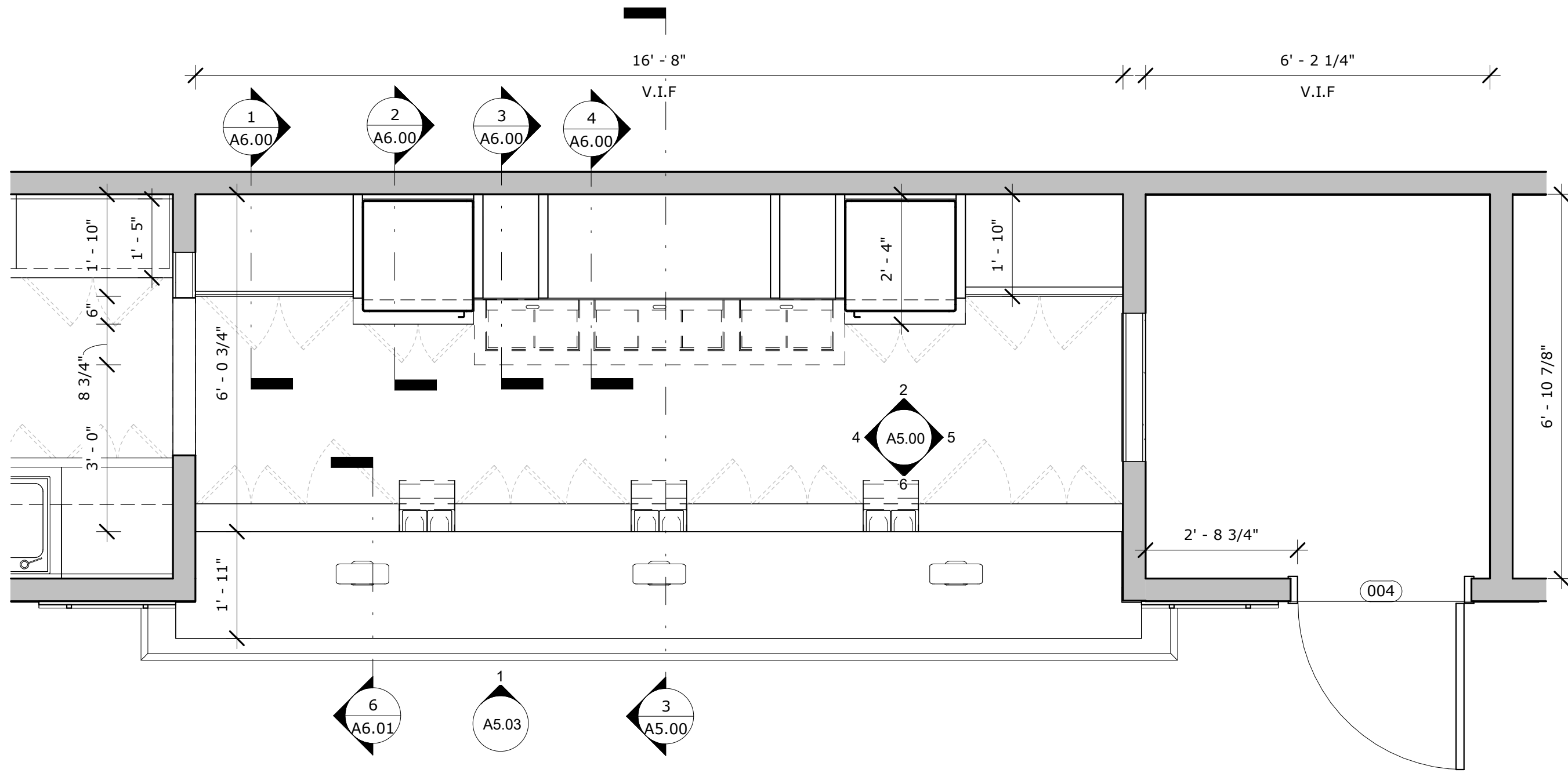
NO.	DESCRIPTION	DATE

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BID

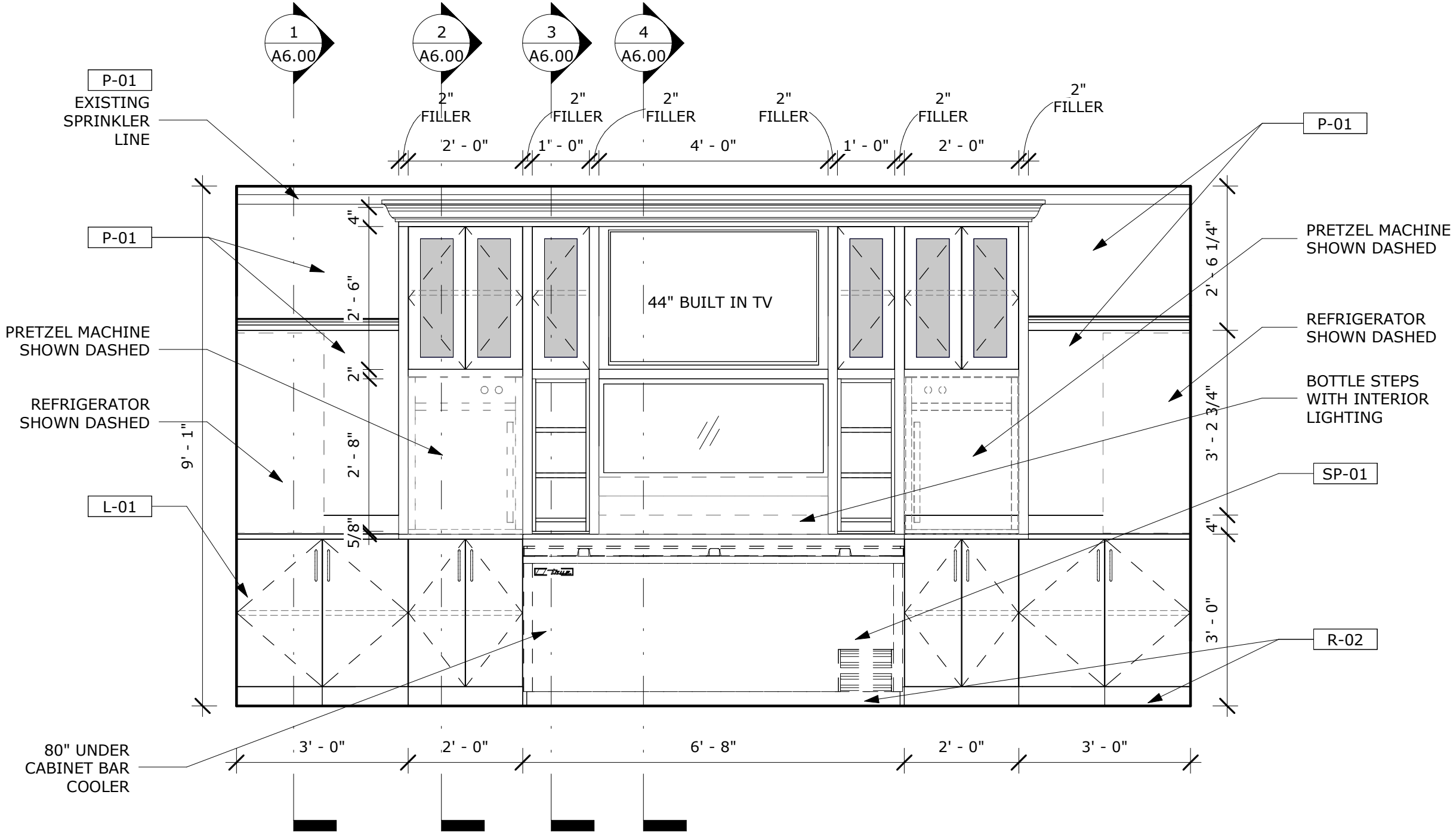
ISSUED DATE:JULY 1, 2026

SHEET TITLE
**PROPOSED
EQUIPMENT
PLAN**

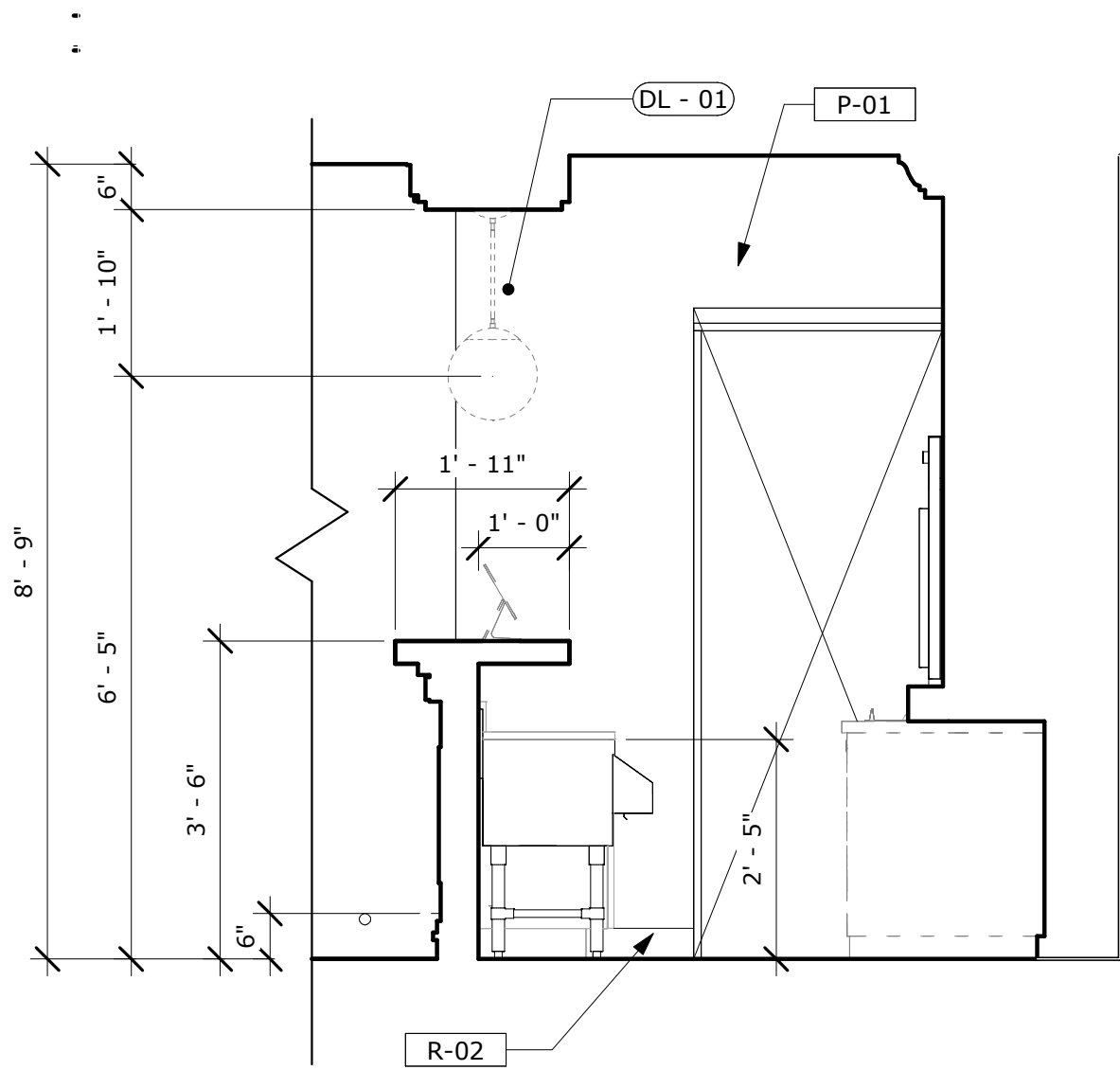
DRAWING NO.
A1.01



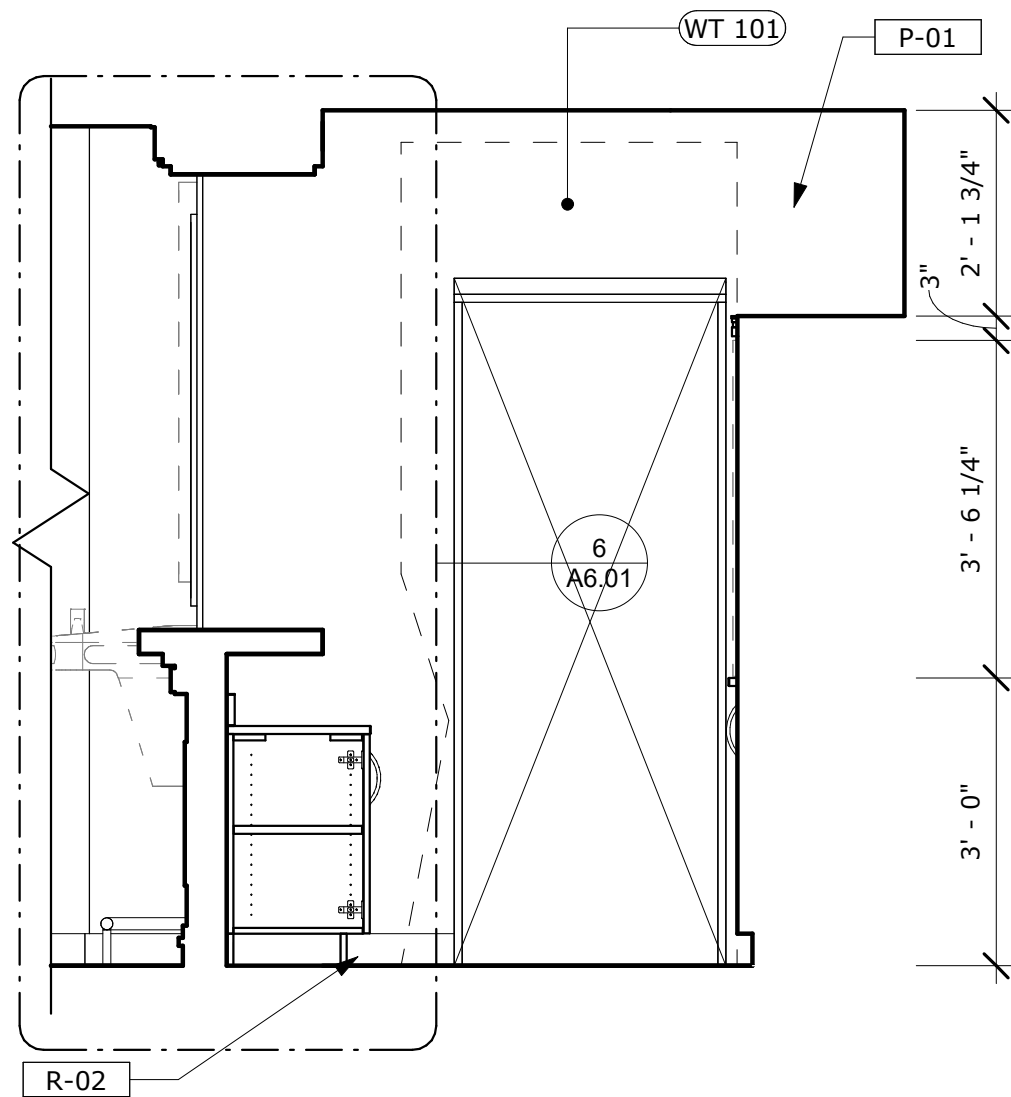
1 ENLARGED FLOOR PLAN - CONCESSION
STAND
1/2" = 1'-0"



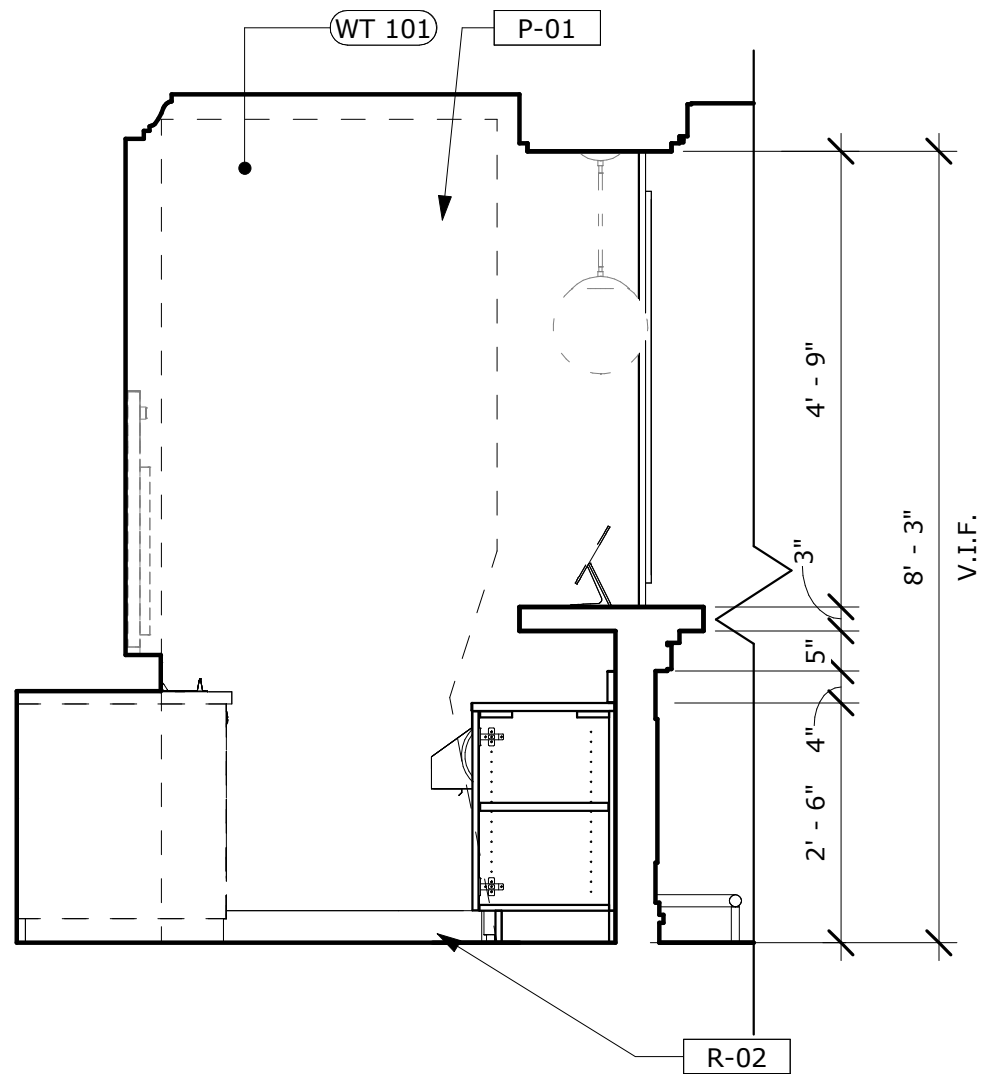
2 PROPOSED CONCESSION - NORTH
INTERIOR ELEVATION
1/2" = 1'-0"



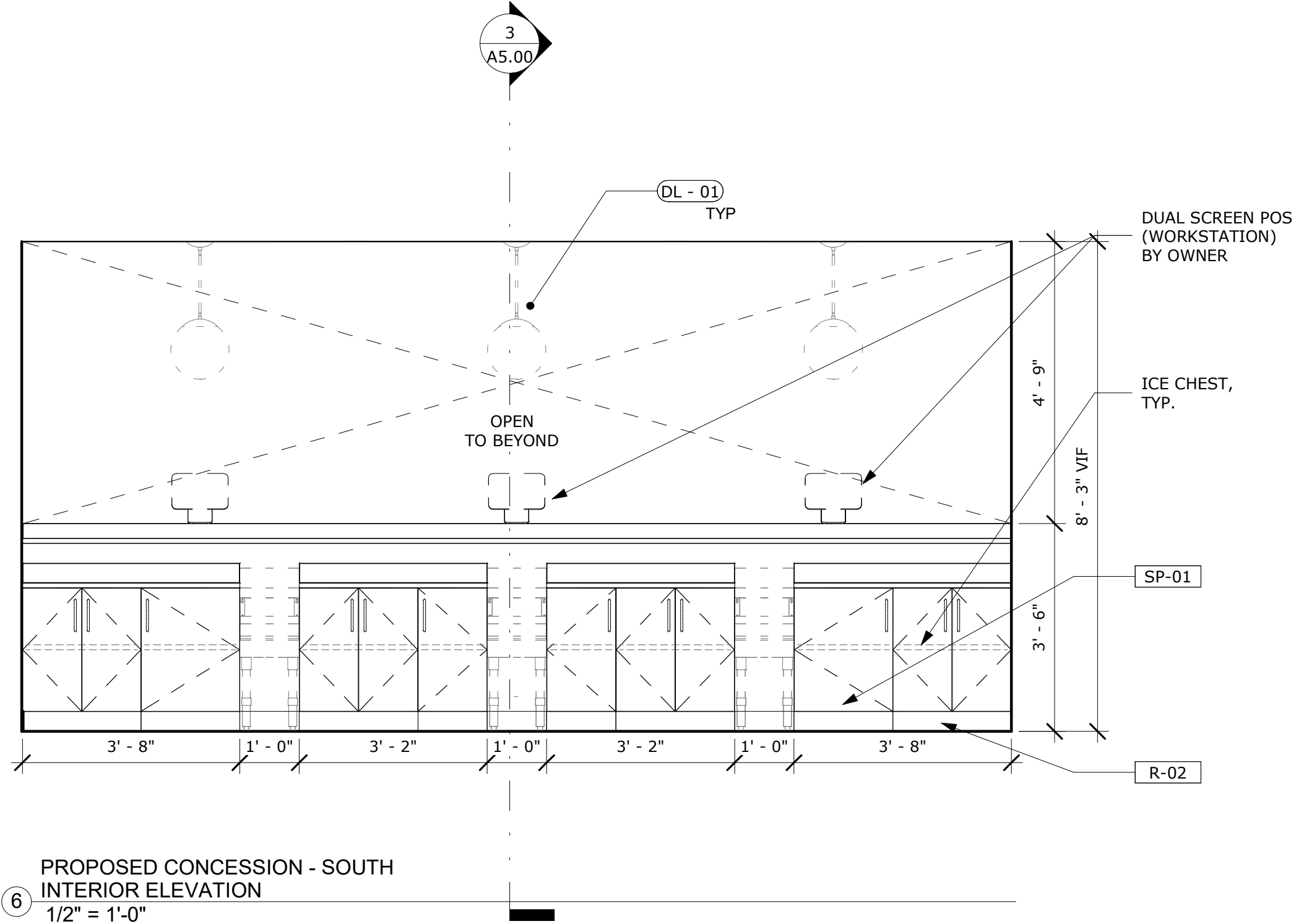
3 CONCESSION STAND - NORTH-SOUTH
SECTION
1/2" = 1'-0"



4 PROPOSED CONCESSION - WEST
INTERIOR ELEVATION
1/2" = 1'-0"



5 PROPOSED CONCESSION - EAST
INTERIOR ELEVATION
1/2" = 1'-0"



6 PROPOSED CONCESSION - SOUTH
INTERIOR ELEVATION
1/2" = 1'-0"

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REVISIONS		
NO.	DESCRIPTION	DATE

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BID**

ISSUED DATE: JULY 1, 2026

SHEET TITLE
**ENLARGED
PLANS &
ELEVATIONS -
CONCESSIONS**

DRAWING NO.

A5.00



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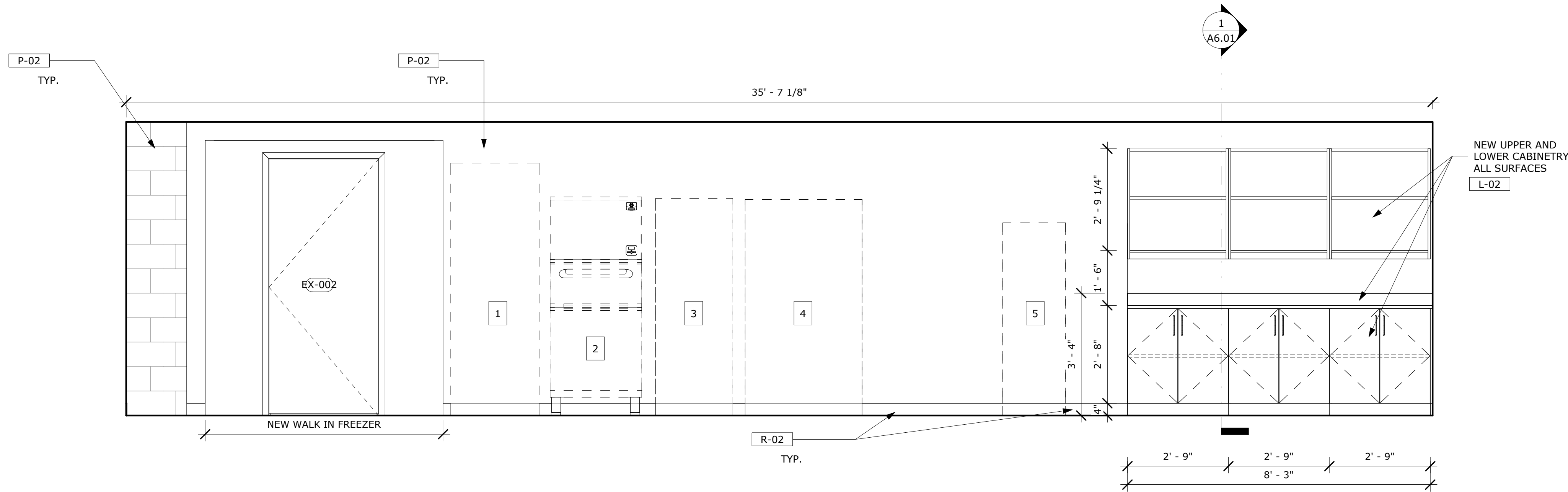
ISSUED DATE:JULY 1, 2026

SHEET TITLE

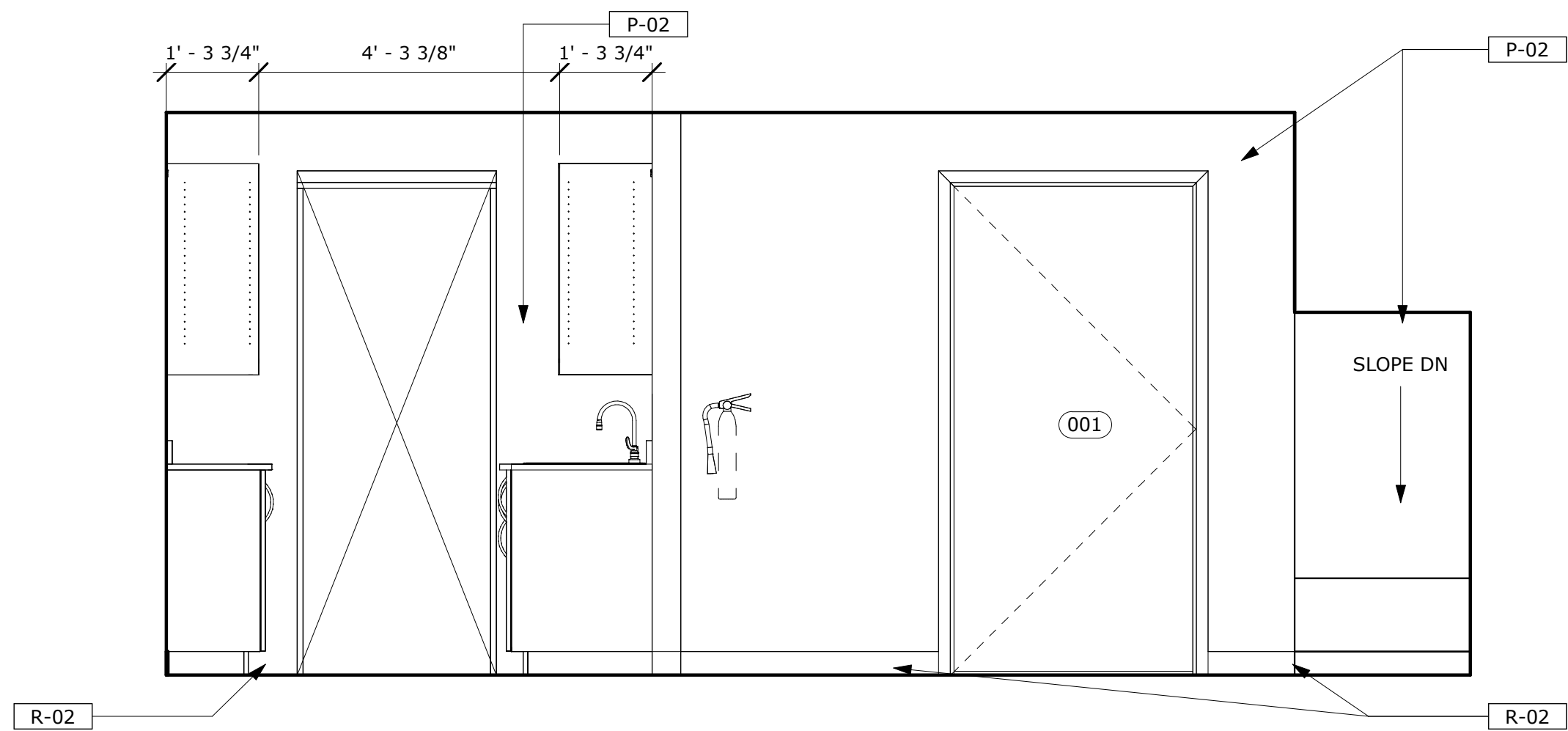
ENLARGED
PLAN -
STORAGE AREA

DRAWING NO.

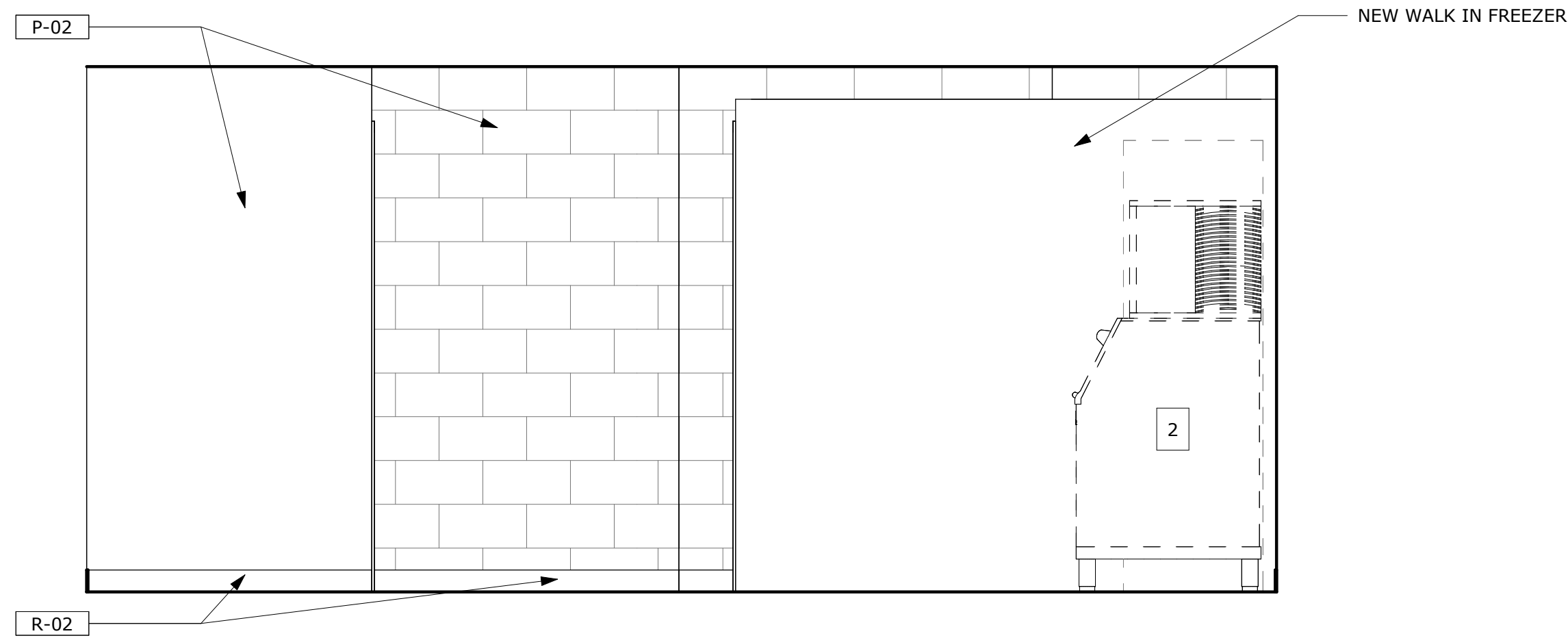
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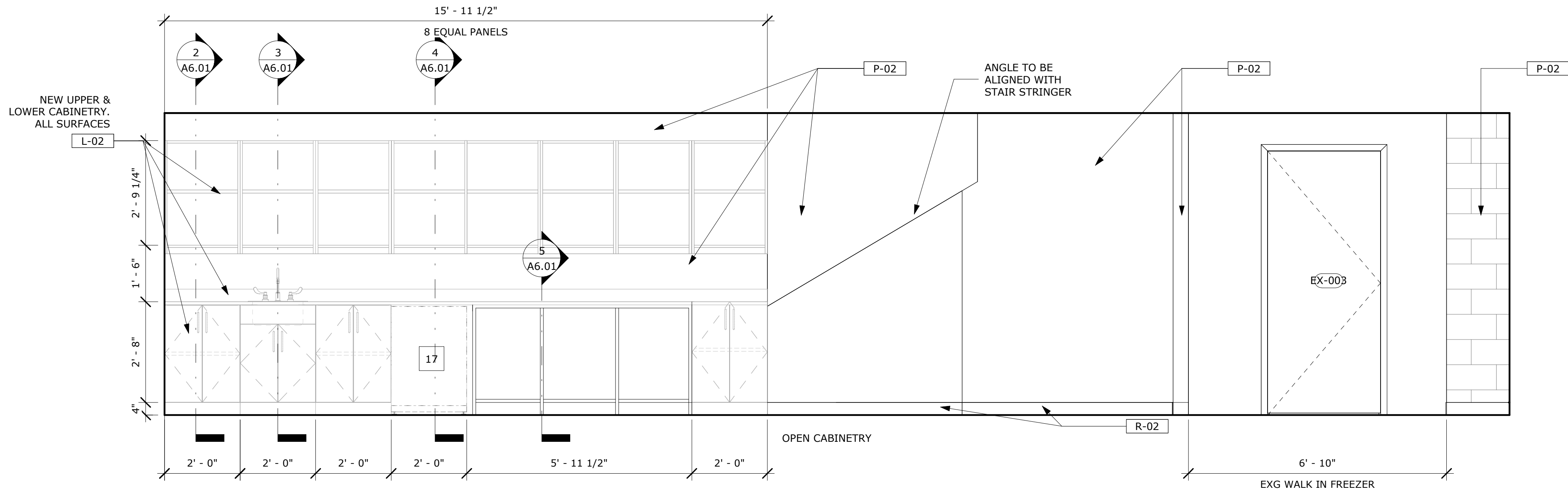
1 PROPOSED STORAGE - NORTH
INTERIOR ELEVATION
1/2" = 1'-0"



2 PROPOSED STORAGE - EAST INTERIOR
ELEVATION
1/2" = 1'-0"



4 PROPOSED STORAGE - WEST INTERIOR
ELEVATION
1/2" = 1'-0"



3 PROPOSED STORAGE - SOUTH
INTERIOR ELEVATION
1/2" = 1'-0"

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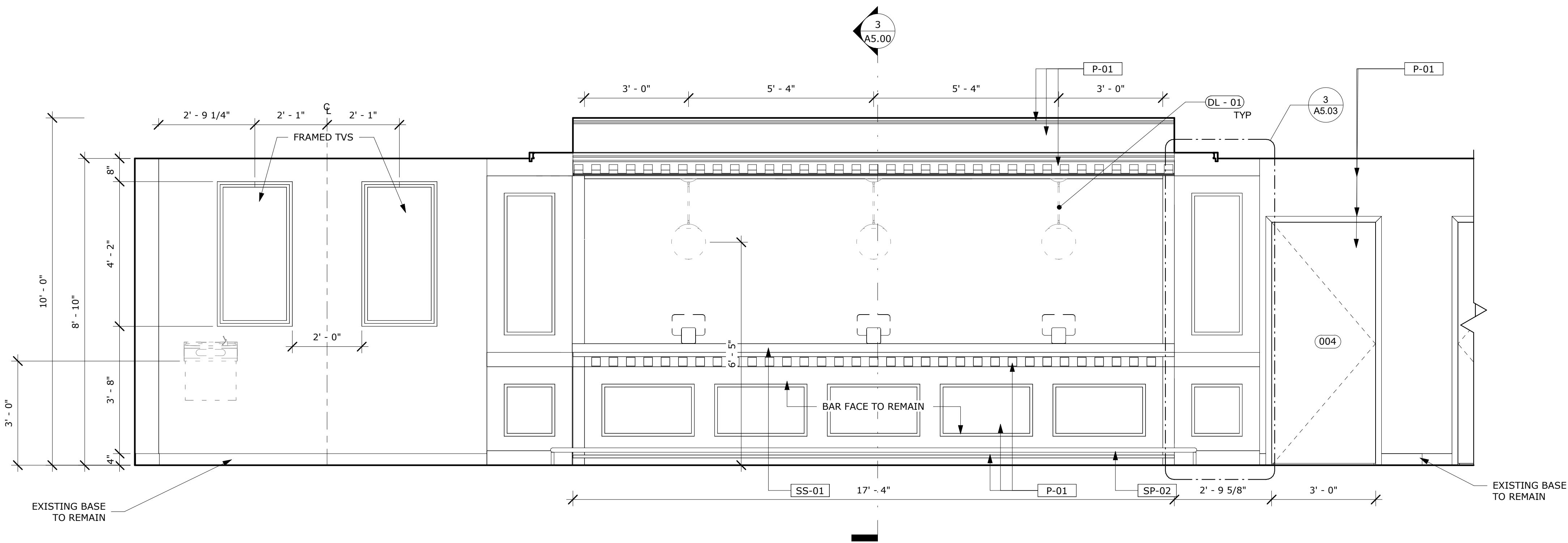
REVISIONS		
NO.	DESCRIPTION	DATE

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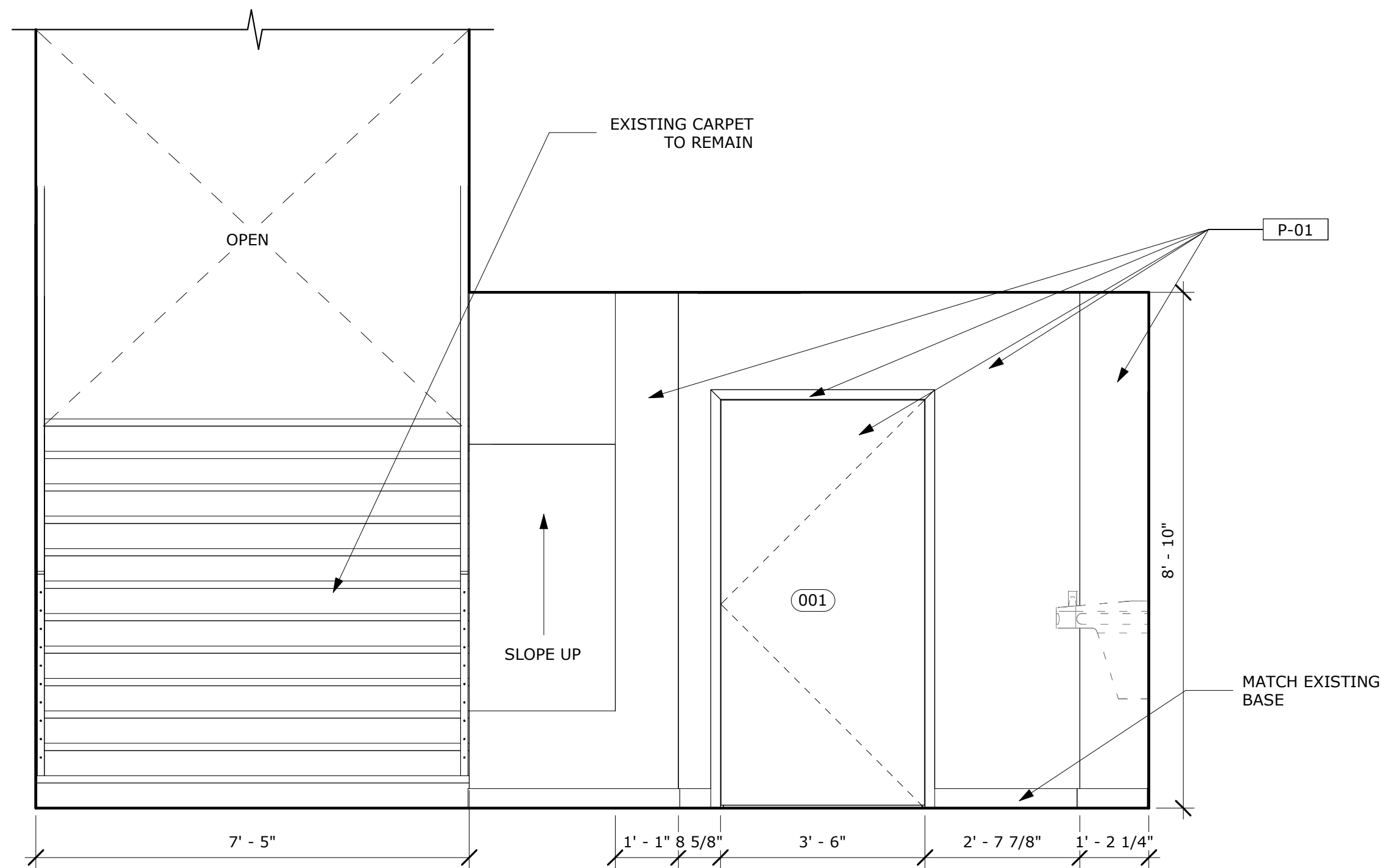
ISSUED DATE: JULY 1, 2026

SHEET TITLE
**ENLARGED
ELEVATIONS -
STORAGE AREA**

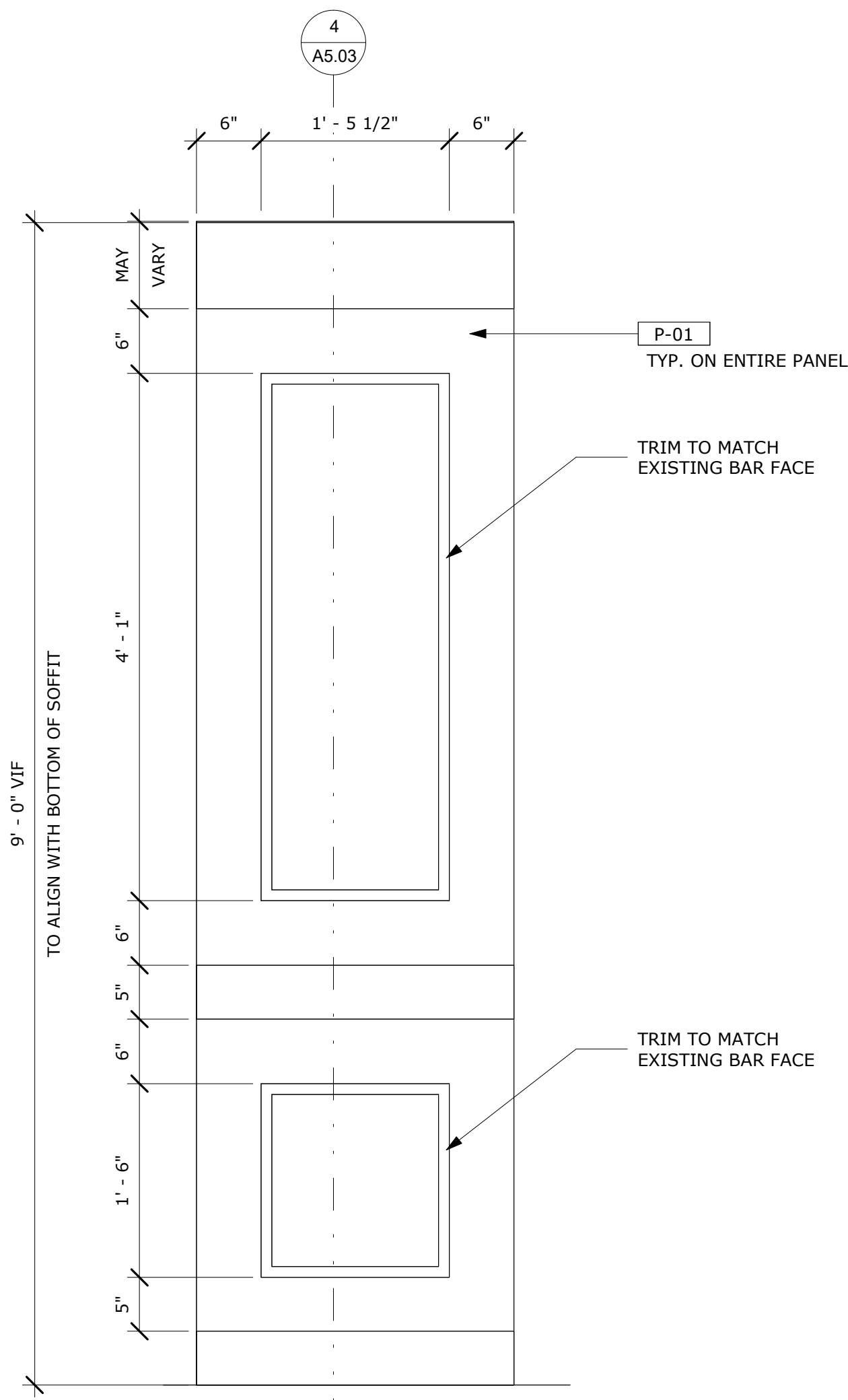
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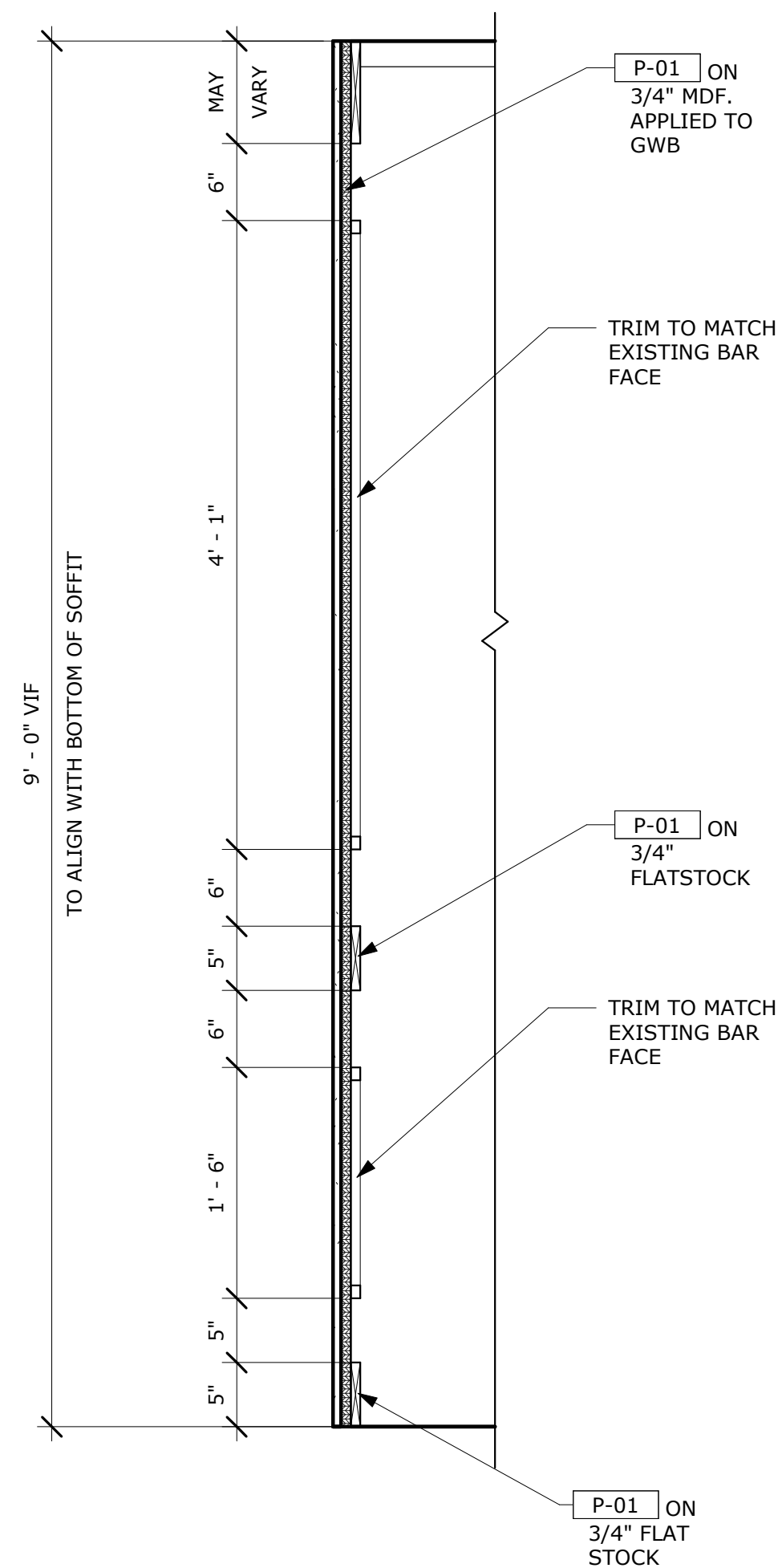
1 FRONT BAR ELEVATION
1/2" = 1'-0"



2 INTERIOR ELEVATION QUEUING AREA
1/2" = 1'-0"



3 ENLARGED PANEL ELEVATION
1" = 1'-0"



4 PANEL SECTION
1" = 1'-0"

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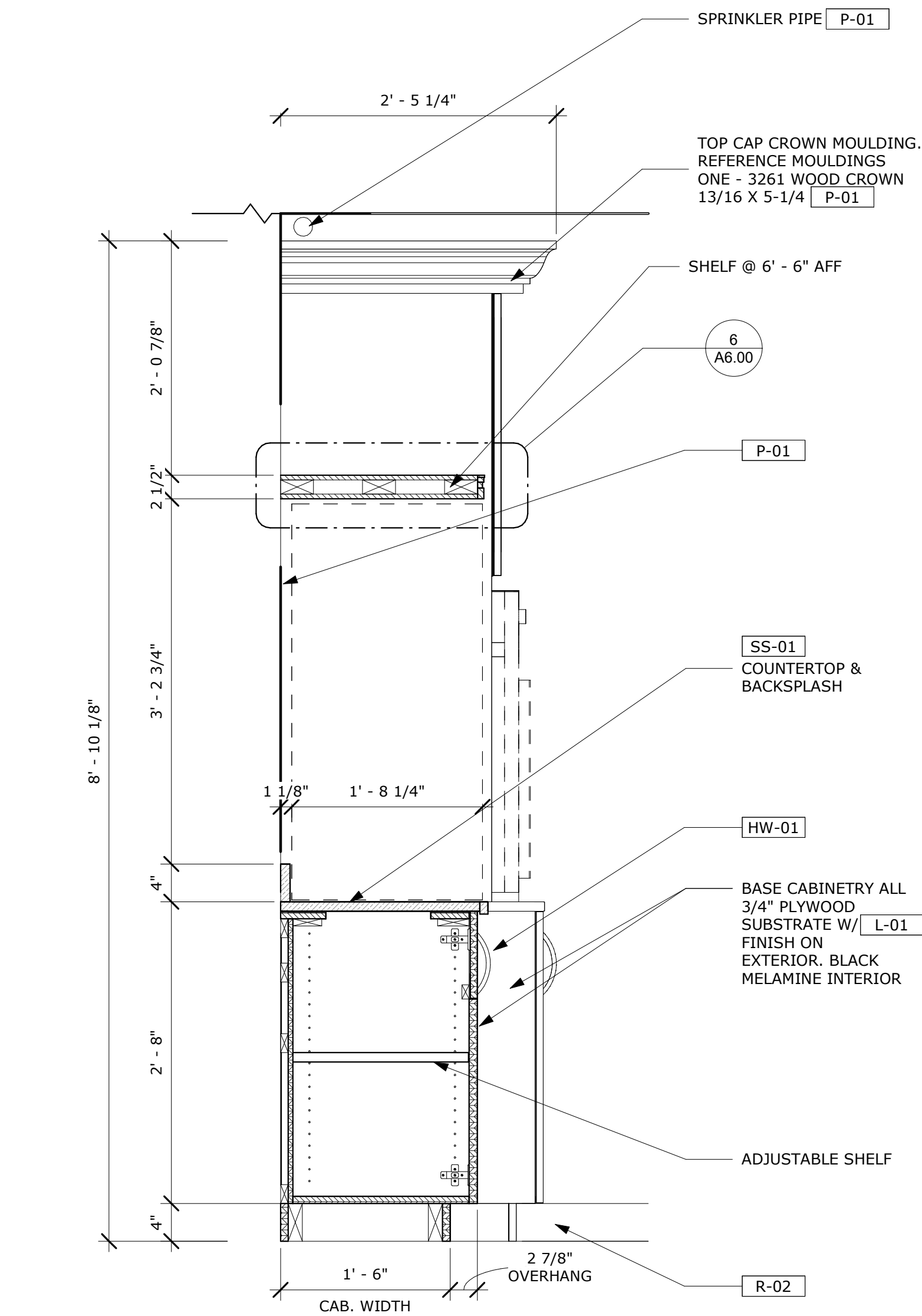
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ISSUED DATE: JULY 1, 2026

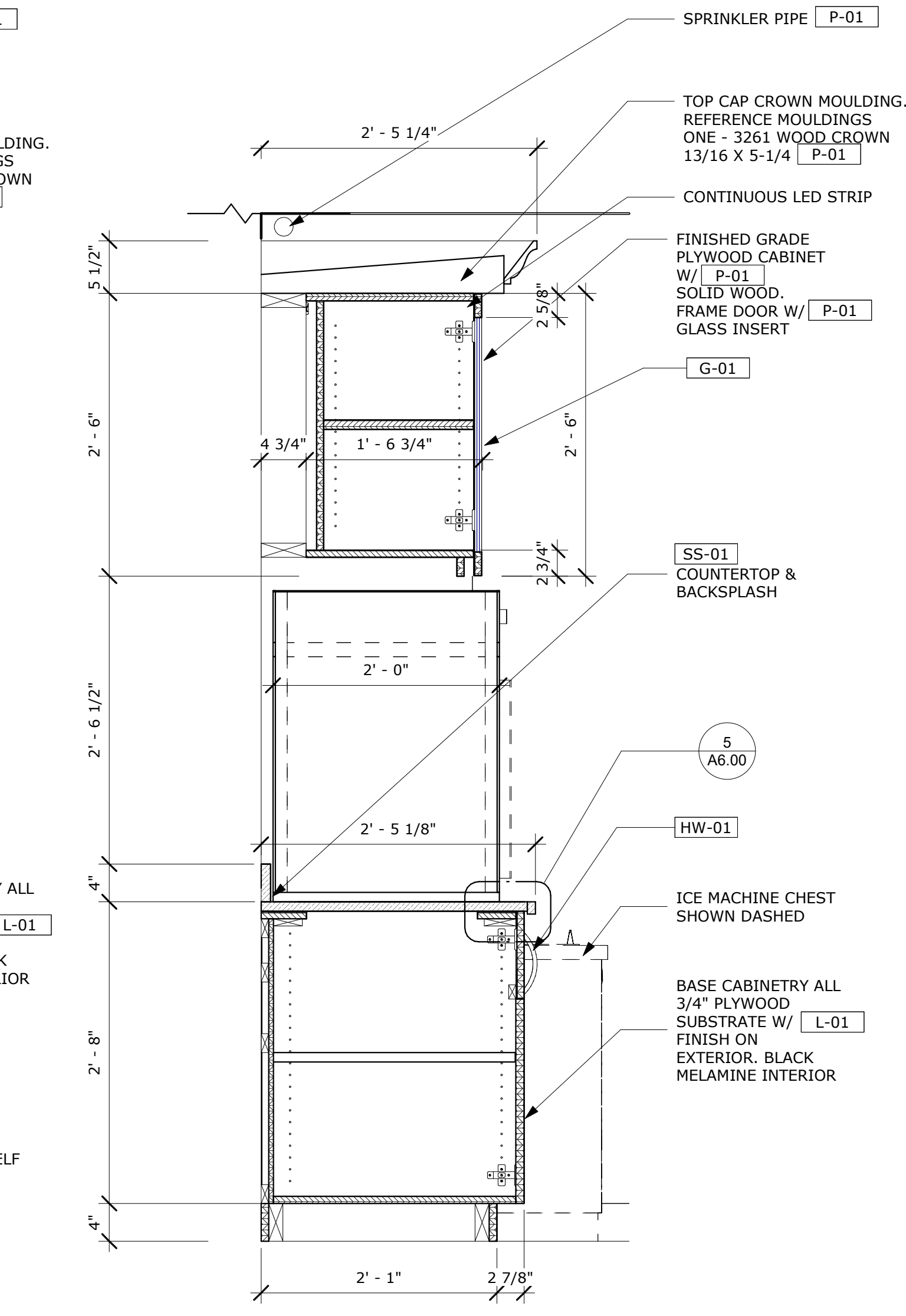
SHEET TITLE
**PROPOSED
INTERIOR
ELEVATIONS**

DRAWING NO.

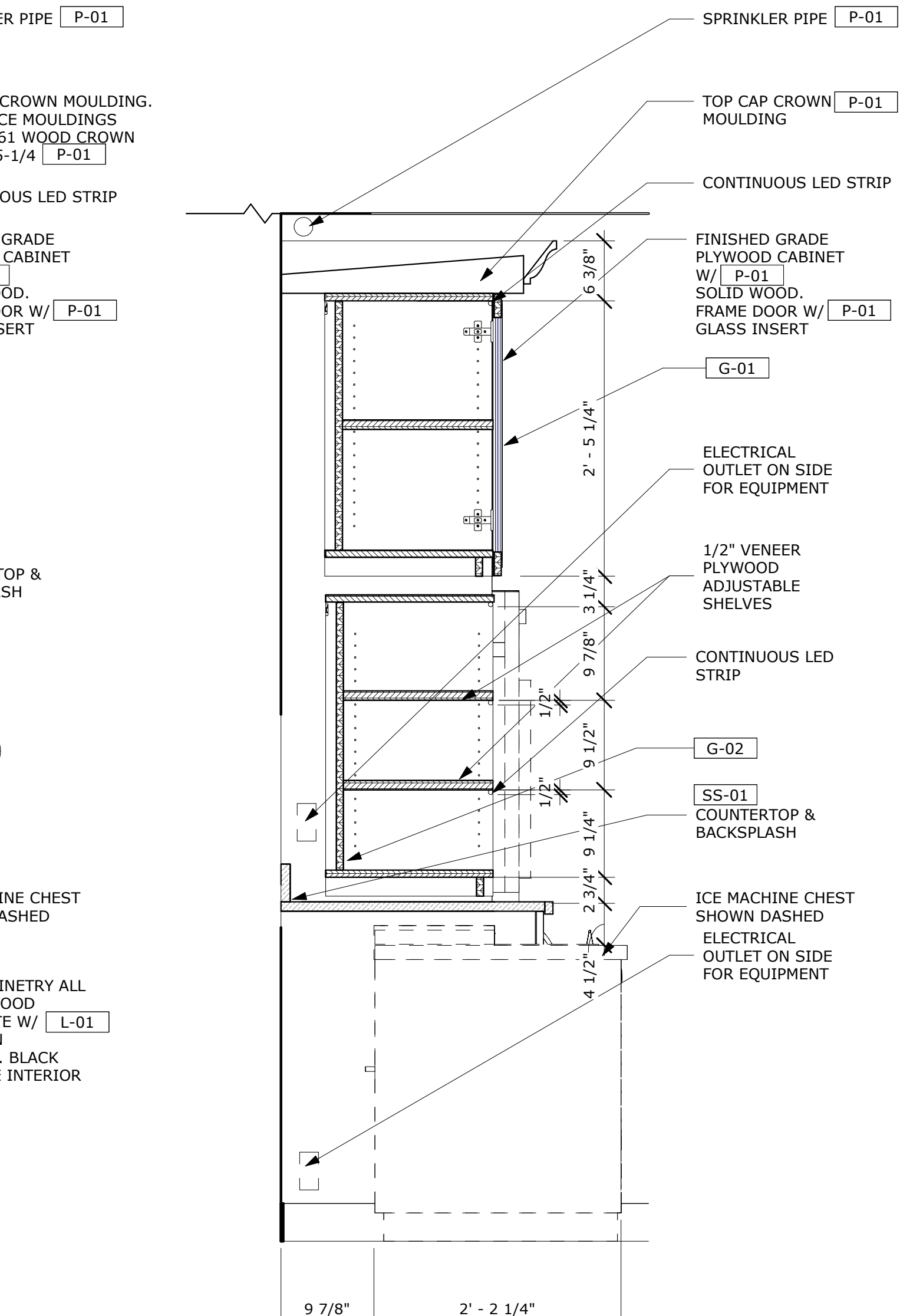
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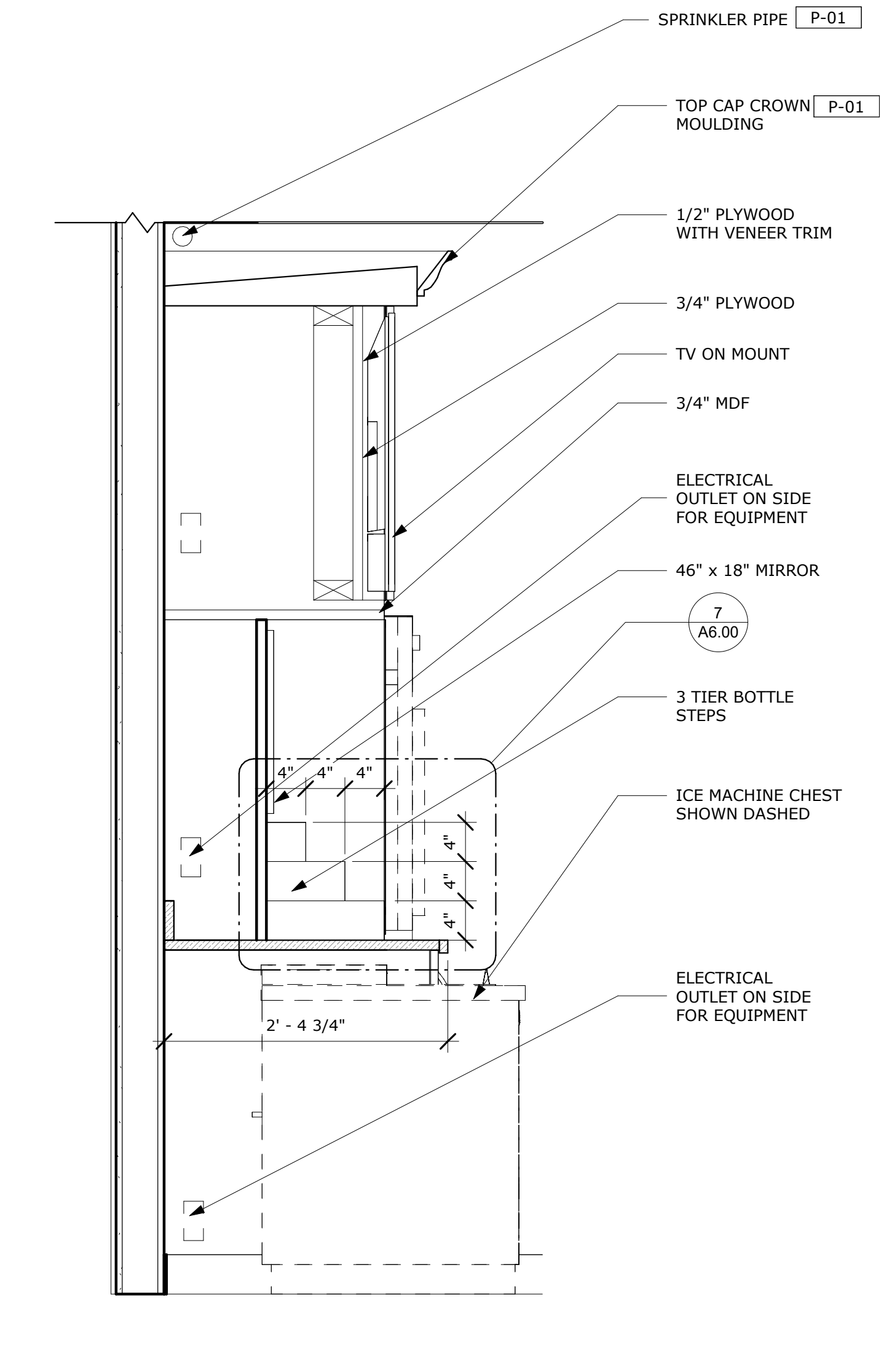
1 BACK OF BAR - SECTION A
1" = 1'-0"



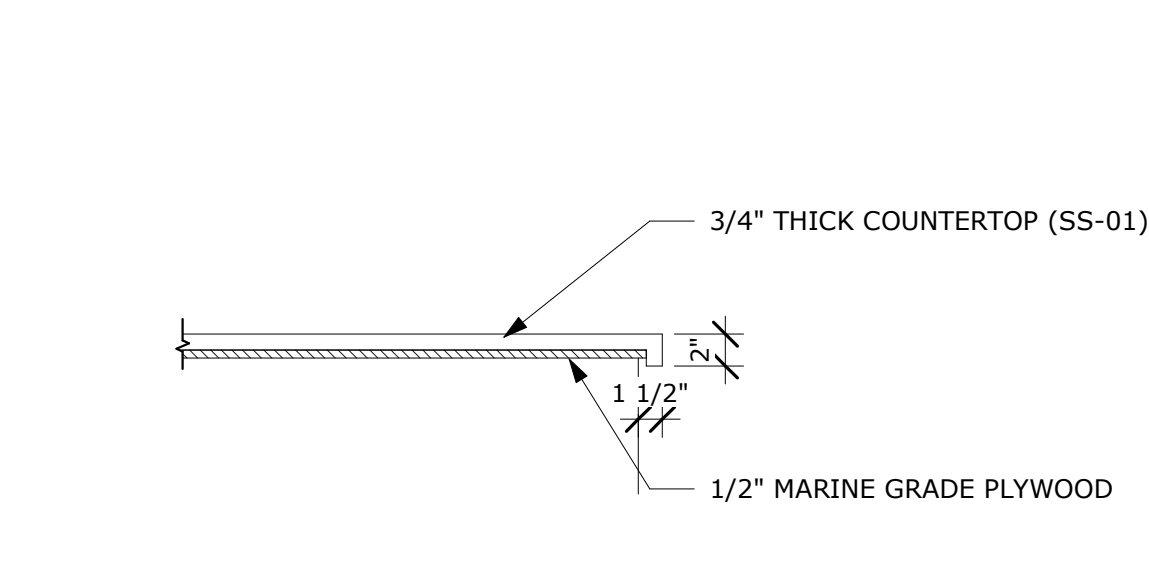
2 BACK OF BAR - SECTION B
1" = 1'-0"



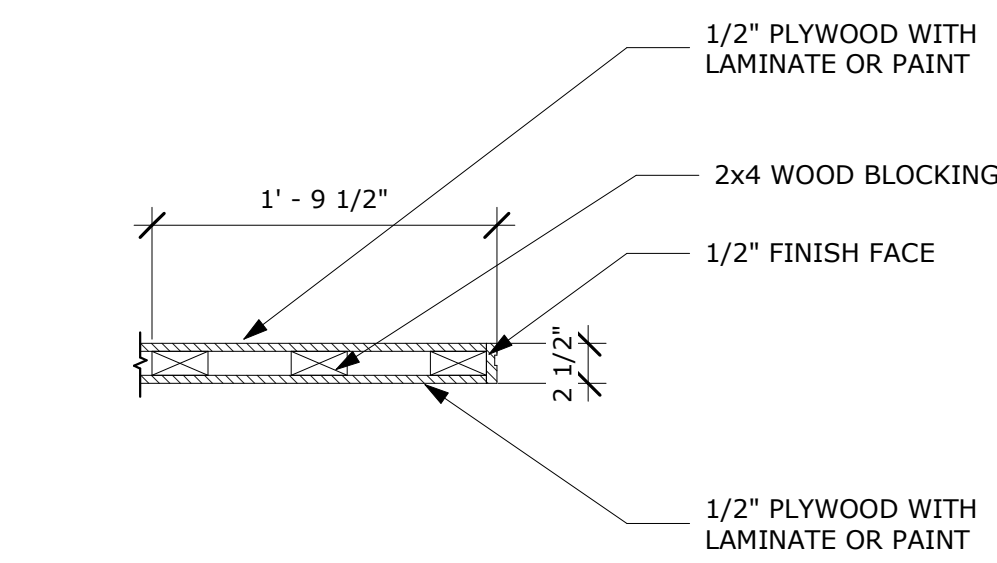
3 BACK OF BAR - SECTION C
1" = 1'-0"



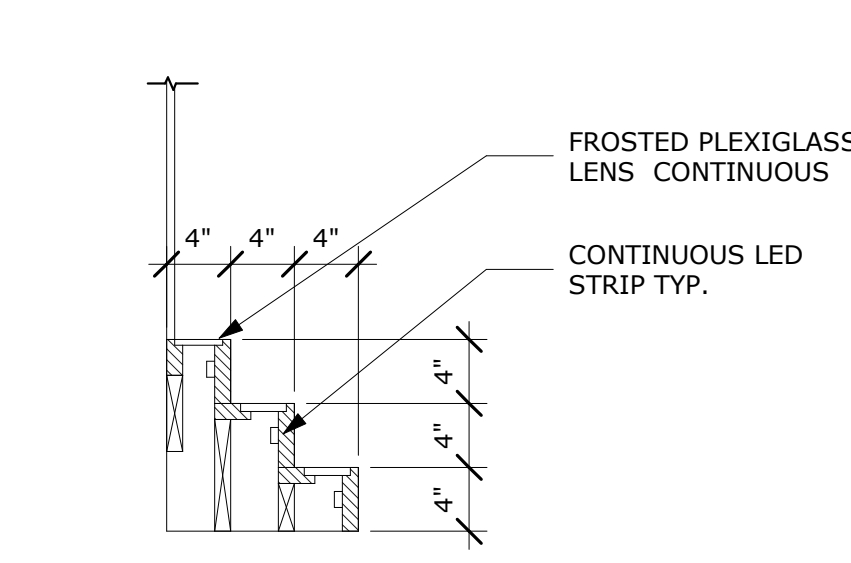
4 BACK OF BAR - SECTION D
1" = 1'-0"



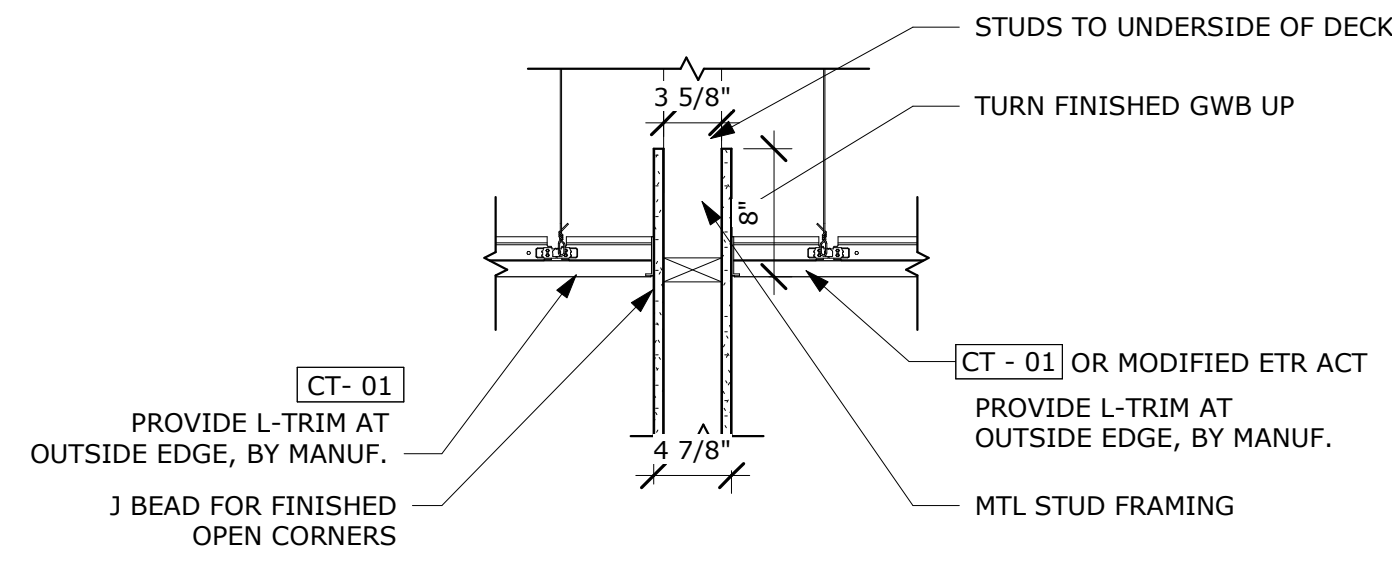
5 COUNTER TOP DETAIL - TYPICAL
1" = 1'-0"



6 FLOATING SHELF DETAIL - TYPICAL
1" = 1'-0"



7 BOTTLE STEPS
1" = 1'-0"



9 SECTION DETAIL - ACT TO ACT
1" = 1'-0"

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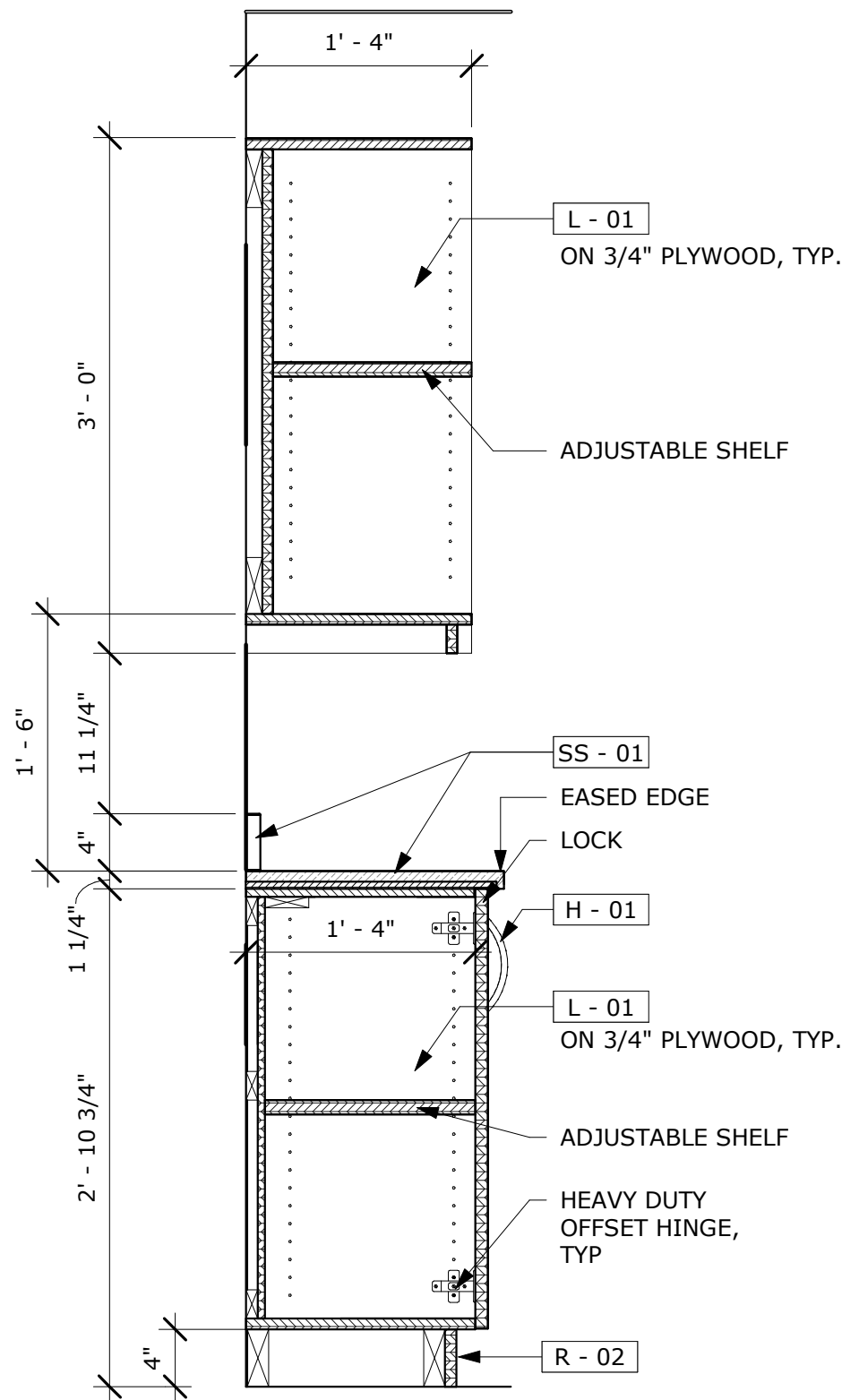
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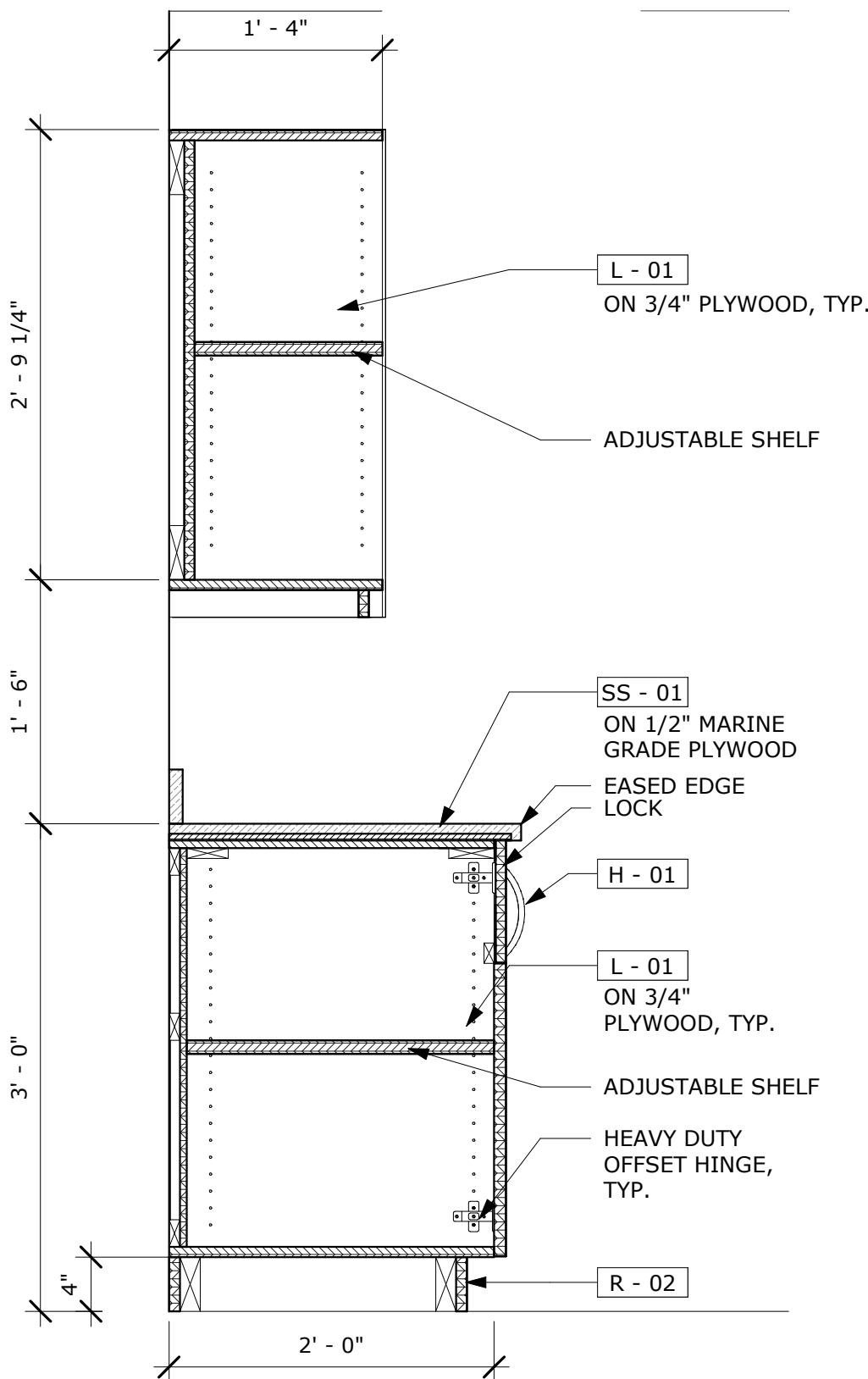
SHEET TITLE
BAR ENLARGED
DETAILS

DRAWING NO.

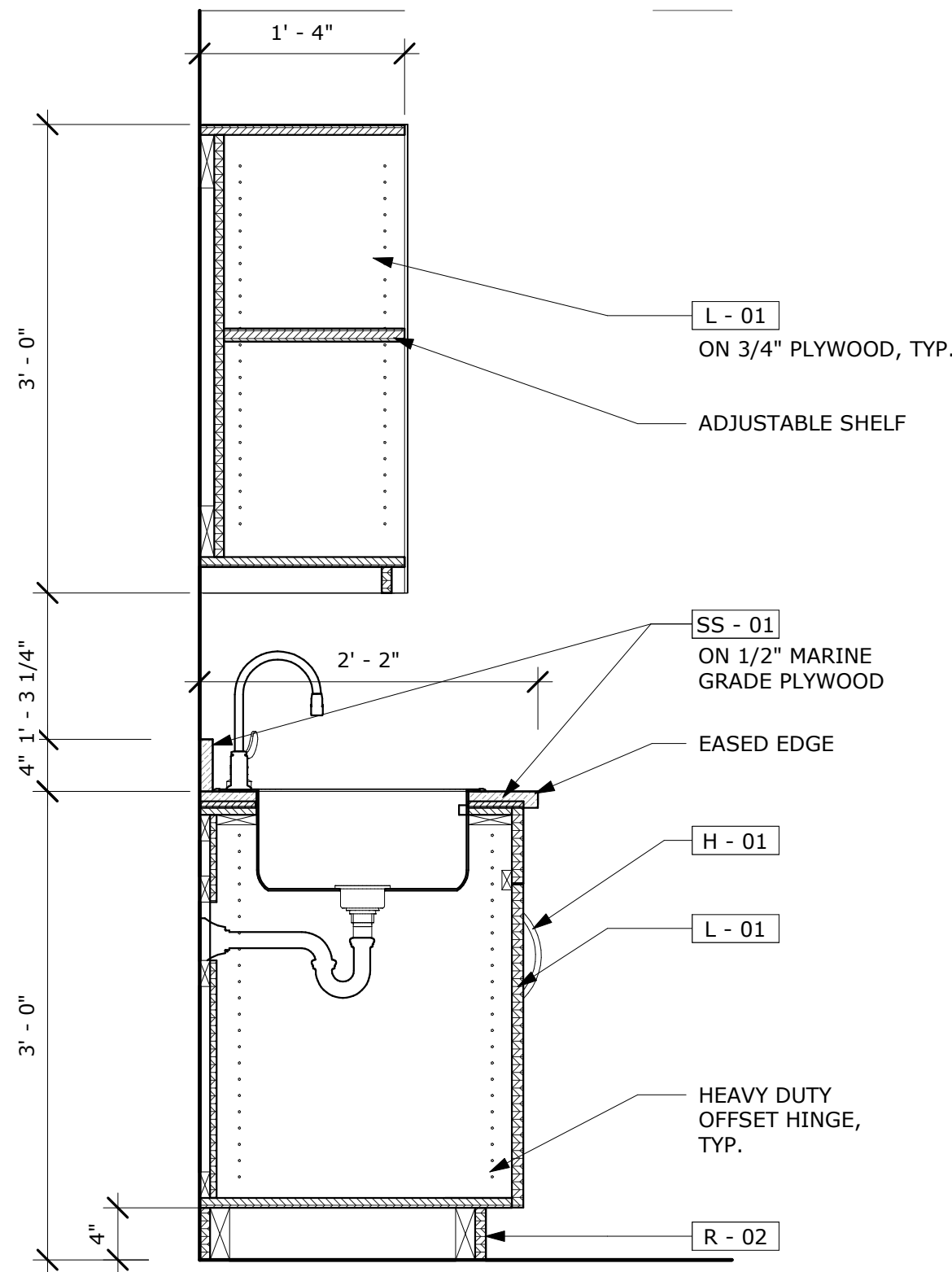
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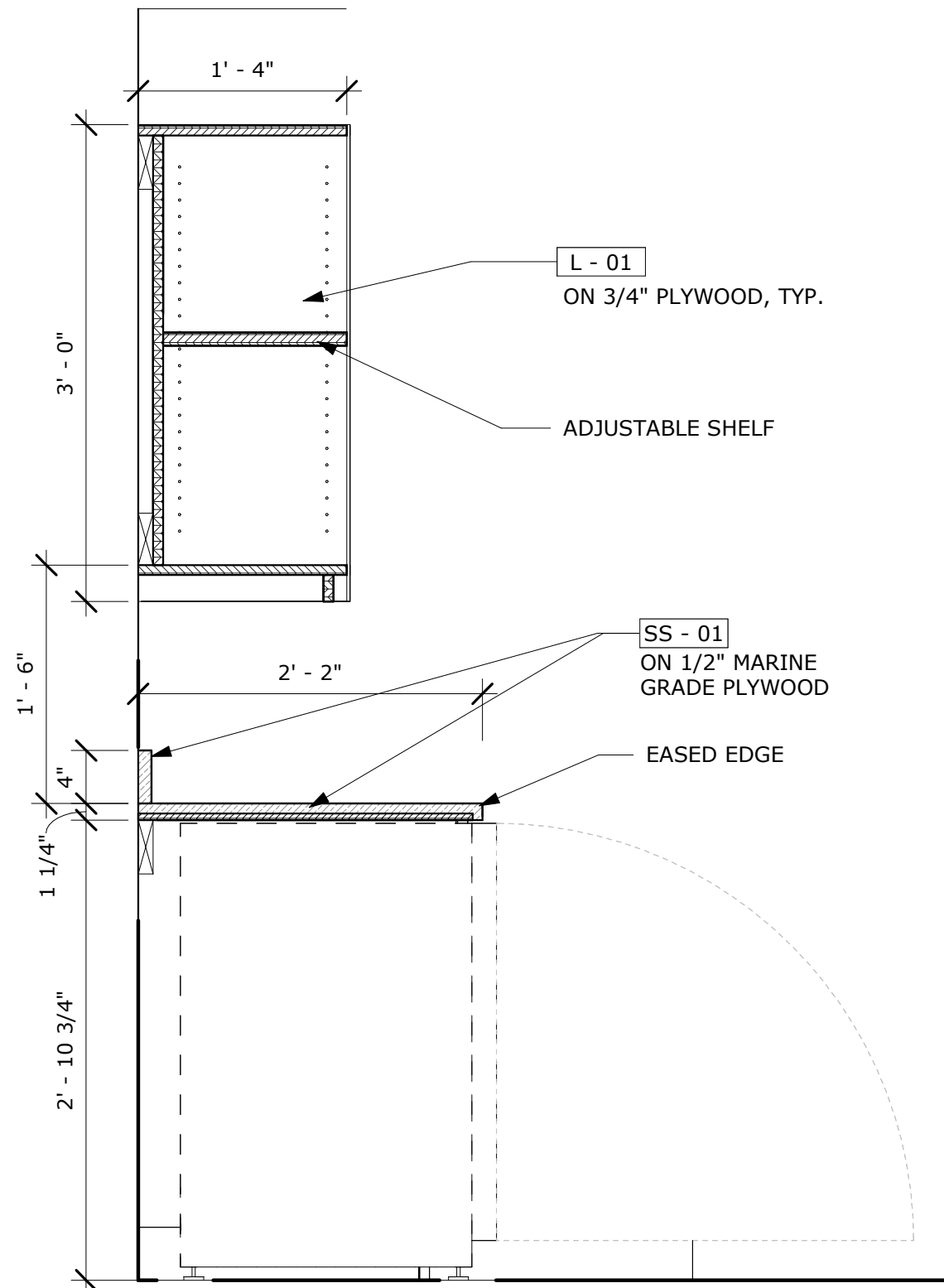
1 STORAGE - CABINET A
1" = 1'-0"



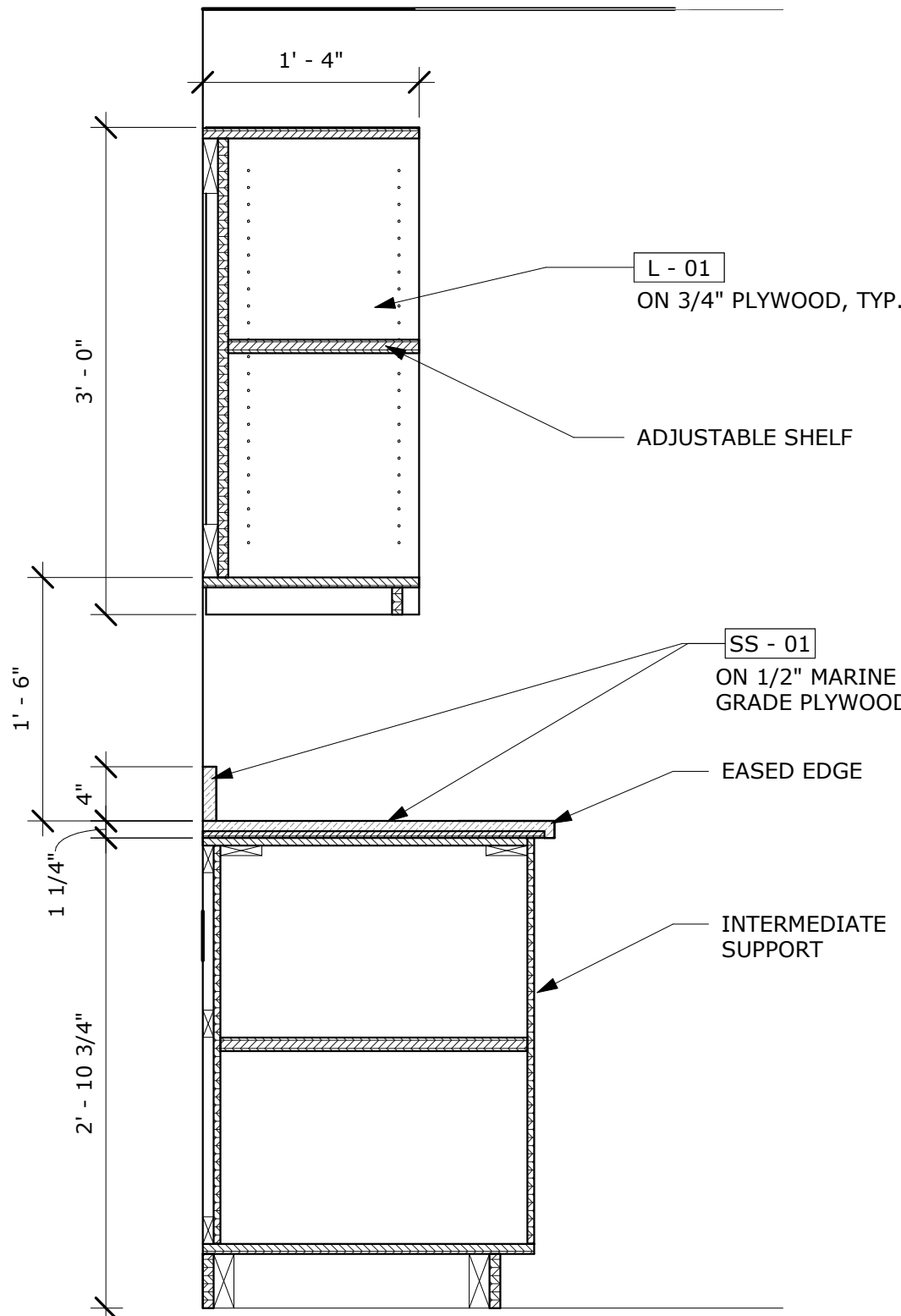
2 STORAGE - CABINET B
1" = 1'-0"



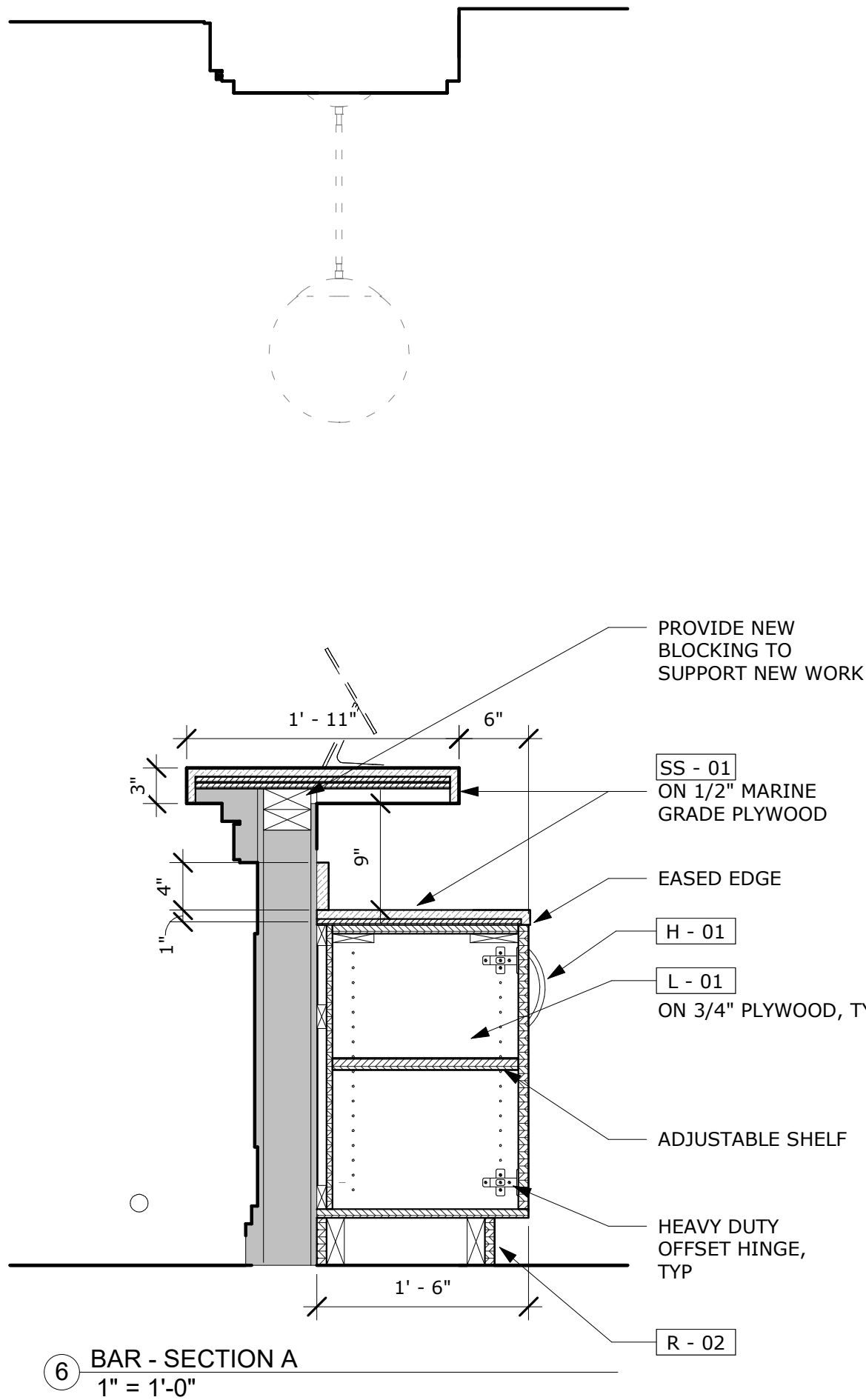
3 SECTION DETAIL @ SINK
1" = 1'-0"



4 STORAGE - DISHWASHER SECTION
1" = 1'-0"



5 SECTION DETAIL @ OPEN CABINET
1" = 1'-0"



6 BAR - SECTION A
1" = 1'-0"

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SHEET TITLE
**STORAGE &
BAR ENLARGED
DETAILS**

DRAWING NO.

A6.01

CEILING SYSTEM

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
CT-01	CEILING TILE	ARMSTRONG	2' x 2' ACT	WHITE	2'X2'X5/8" GRID LAYIN WITH PRELUDE 15/16" SUSPENSION SYSTEM.	STORAGE, CONCESSIONS, & QUEUING AREA	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	NICHOLAS D SMAY: NDSMAY@ARMSTRONGCEILING.COM 717.396.2737

GLASS

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
G-01	CLEAR GLASS	BID SOURCE	TEMPERED LOW IRON GLASS W/ POLISHED EDGES	CLEAR	1/4" THICK TO COORDINATE WITH ARCHITECTURAL DRAWINGS, REFER TO FINISH NOTES	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	BID SOURCE
G-02	MIRROR GLASS	BID SOURCE	LOW IRON SILVER MIRRORRED GLASS	CLEAR	1/4" THICK TO COORDINATE WITH ARCHITECTURAL DRAWINGS, REFER TO FINISH NOTES	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	BID SOURCE

HARDWARE

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
H-01	CABINET PULL	REJUVENATION	KLINE DRAWER PULL	AGED BRASS	4" CENTER TO CENTER X 1-1/2" PROJECTION	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	GINA FULGINITI; GFulginiti@wsdc.com; 718-704-9397

LAMINATE

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
L-01	BURGUNDY LAMINATE	PANOLAM	LAMINATE PANELS	ROYAL BURGUNDY	FINISH: MEDIUM GLOSS (MG)	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	MEGAN RELIHAN; Megan_Relihan@panolam.com; 203-913-4036
L-02	BLACK LAMINATE	WILSONART	SOLID BLACK LAMINATE PANELS	BLACK 1595	FINISH: 60 MATTE / SIZE: 5'X12'	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	CHERYL ANDERSON; Cheryl.Anderson@wilsonart.com; 254-541-9521

PAINT

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
P-01	BURGUNDY PAINT	SHERWIN WILLIAMS	PER MANUFACTURER	SW 2801 ROOKWOOD DARK RED	SEMI-GLOSS	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	HEATHER R BOURGEOIS; Heather.r.bourgeois@sherwin.com; 617.438.1408630
P-02	OFF-WHITE PAINT	SHERWIN WILLIAMS	PER MANUFACTURER	SW 7008 ALABASTER	EGGSHELL @ WALLS; MATTE @ CEILINGS	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	HEATHER R BOURGEOIS; Heather.r.bourgeois@sherwin.com; 617.438.1408630

RUBBER

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
R-01	RUBBER FLOOR TILE	TARKETT	SOLID COLOR RUBBER TILE, RAISED ROUND	BLACK	SIZE: 24"x24"	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	JOHN MCNULTY; John.McNulty@tarkett.com; 617 293-7131
R-02	RUBBER WALL BASE	TARKETT	WALL BASE	BLACK	6"H. COVED STICK	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	JOHN MCNULTY; John.McNulty@tarkett.com; 617 293-7131

SOLID SURFACE

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
SS-01	QUARTZ	CAMBRIA	QUARTZ -SIGNATURE SERIES	WOODCROFT	FINISH: POLISHED / THICKNESS: 2CM / SLAB SIZE: 132" x 65.5"	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	CHRISTINE LEWIS; christine.lewis@cambriausa.com; 508-450-7121

SPECIALTY PRODUCT

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
SP-01	FRP	MARLITE OR EQUAL	STANDARD FRP; SMOOTH	S807N BLACK CLASS A	PANEL SIZE: 4' X 9' / THICKNESS: 3/32" TUBING: 2" DIA X 8'	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL.	JAMIE MCDWARD; JMCDWARD@MARLITE.COM +1.330.260.7627
SP-02	BRASS FOOTRAIL	KEGWORKS	CONTEMPORARY BAR RAIL BRACKET & TUBING	SATIN BRUSHED BRASS	CODE:SB-990-08; FOOT RAIL BRACKET: 90 POST -2" DIA. CODE:SB-76979-2; FLUSH FLAT ENDCAP SB-76940-2	REFER TO DWGS	SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL - TO BE PURCHASED W/ ALL REQUIRED TUBING PARTS + COMPONENTS FOR BAR INSTALLATION.	JOHN VARECKA; JVARECKA@KEGWORKS.COM; 1.716.768.1593

DECORATIVE LIGHTING

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
DL-101	PENDANT	HUDSON VALLEY LIGHTING	BURLINGTON	AGED BRASS	12"DIA. X 22"OAH. / CANOPY: 4.5"DIA.	REFER TO DWGS	HARDWIRED. 2700K COLOR TEMP. SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	KOLSON PICKARD: kolson@thehartteam.com; 914.330.4662

WINDOW TREATMENT

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH/SIZE	LOCATION	COMMENTS	CONTACT
WT-101	DRAPERY PANEL	BID SOURCE	ONE TRACK CEILING MOUNTED STATIONARY RIPLEFOLD DRAPERY PANEL W/ TIEBACK	KRAVEIT CONTRACT FABRIC	FABRIC: 36652.912.0 ROCCO VELVET -CURRANT / TIEBACK: WEST ELM ANTIQUE BRASS METAL FINISH -SKU: 7623280	REFER TO DWGS	DRAPERY PANEL TO BE DOUBLE SIDED. FABRICATOR TO AVOID HORIZONTAL SEAMS. SUBMIT SAMPLE FOR DESIGNER REVIEW & APPROVAL	DRAPERY: BID SOURCE / FABRIC: RENEE VALEGA; renee@realcontractsolutions.com; 617.455.7704

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**BUILDING ENGINEERING
RESOURCES, INC.**



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PROJECT NAME

VETS
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CONCESSION
STAND

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PROVIDENCE, RI 02903

PROJECT NO. 25114

THESE DRAWINGS ARE FOR THE CONSTRUCTION OF THE PROJECT LISTED ABOVE AND ARE NOT TO BE COPIED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF ZDS, INC. THE GENERAL CONTRACTOR SHALL NOT SCALE DRAWINGS FOR MEASUREMENTS, BUT SHALL VERIFY AT THE SITE ALL DIMENSIONS AND CONDITIONS NECESSARY FOR COMPLETE FABRICATION, ASSEMBLY AND INSTALLATION OF THE WORK. MINOR DETAILS OF THE WORK NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL BE ASCERTAINED BY THE CONTRACTOR AT THE SITE OF THE WORK, AND SHALL BE ACCOMPLISHED WITH THE INTENT OF THIS PROJECT.

REVISIONS

[illegible]

ISSUED FOR
BID

ISSUED DATE:JULY 1, 2026

SHEET TITLE

HARD FINISH SCHEDULE

DRAWING NO.

A7.00

1. PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF WORK TO REMOVE THE EXISTING PLUMBING SYSTEM INDICATED TO BE REMOVED. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.

1. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL PLUMBING DRAWINGS.
2. DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. DO NOT SCALE DRAWINGS.

	ETR	LIGHT LINE INDICATES EXISTING PIPING TO REMAIN
	RE	REMOVE EXISTING PIPING
	CTE	CONNECT TO EXISTING
	C&C	CUT & CAP
	CW	COLD WATER
	CW	COLD WATER BELOW FLOOR OR BURIED
	HW	HOT WATER
	HWR	HOT WATER RECIRCULATION
	S/W	SOIL OR WASTE
	S/W	SOIL OR WASTE BELOW FLOOR OR BURIED
	I/W	INDIRECT WASTE
	V	VENT
	V	VENT BELOW FLOOR OR BURIED
		CONTINUATION
	UP/RISE	PIPE RISER
	DR/DN	PIPE DROP OR DOWN
	TEE	PIPE TEE
		BALL VALVE
	VIV	VALVE IN VERTICAL
	CV	CHECK VALVE
	W&T	WASTE & TRAP
	CO/WCO	CLEANOUT PLUG OR WALL CLEANOUT
	FCO	FLOOR CLEANOUT
		ARROW INDICATES DIRECTION OF SLOPE

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REVISIONS

[illegible]

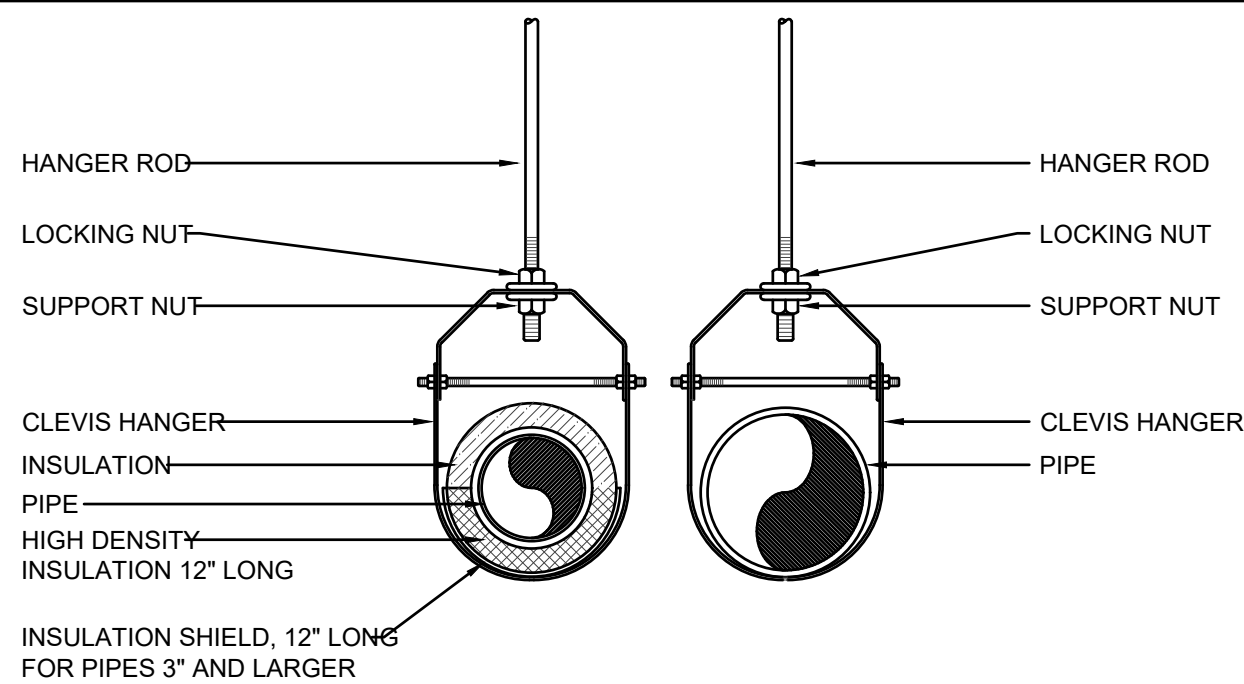
ISSUED DATE: JULY 1, 2026

PLUMBING LEGEND, NOTES, DETAILS & SCHEDULES

DRAWING NO.

P0.1

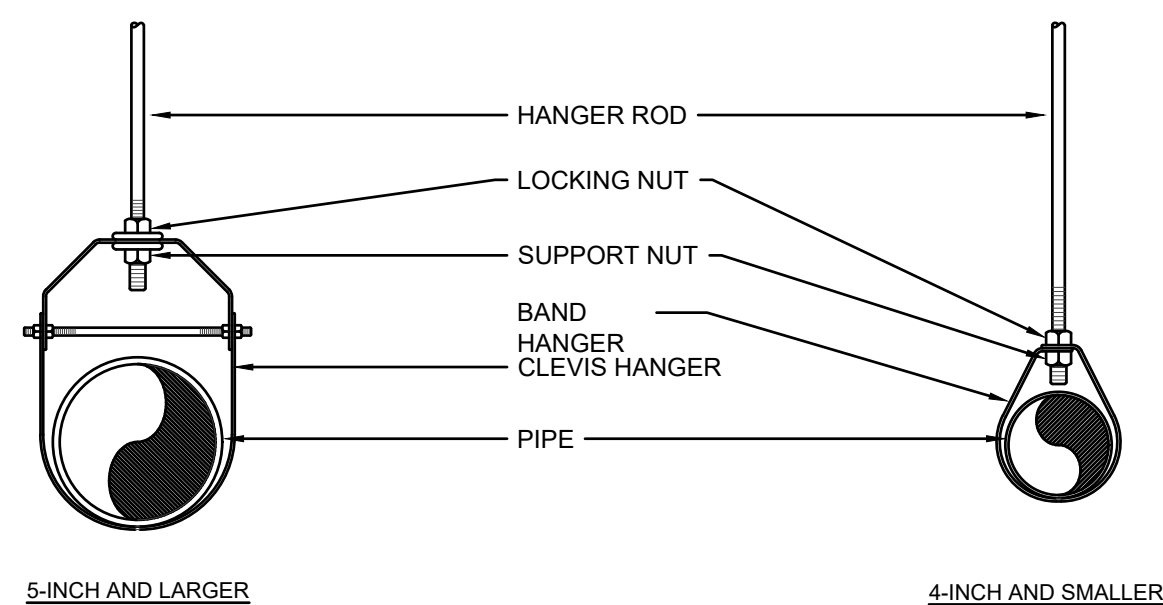
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HANGER ROD SCHEDULE		HANGER ROD SPACING	
PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING
UP TO 2"	3/8" DIA.	1"	7'
2 1/2" THRU 3"	1/2" DIA.	1 1/4"	8'
4" AND 5"	5/8"	1 1/2"	9'
6" - 8"	3/4"	2"	10'
10 & 12"	7/8"	2 1/2"	11'
		3" - 12"	12'

INSULATED AND NON INSULATED PLUMBING SYSTEMS

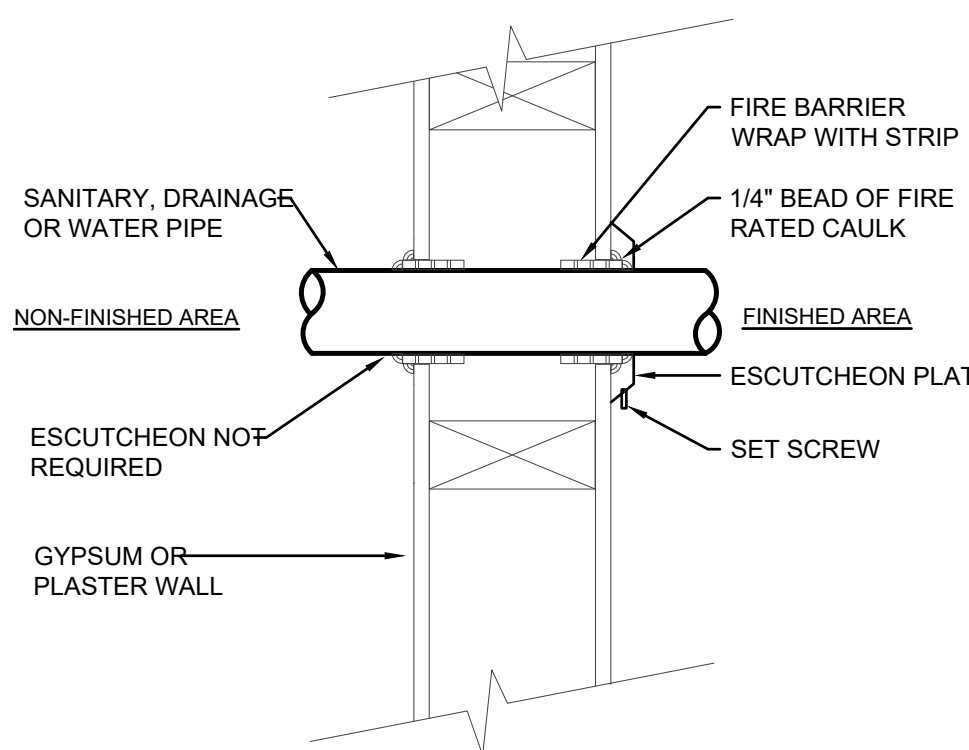
NTS



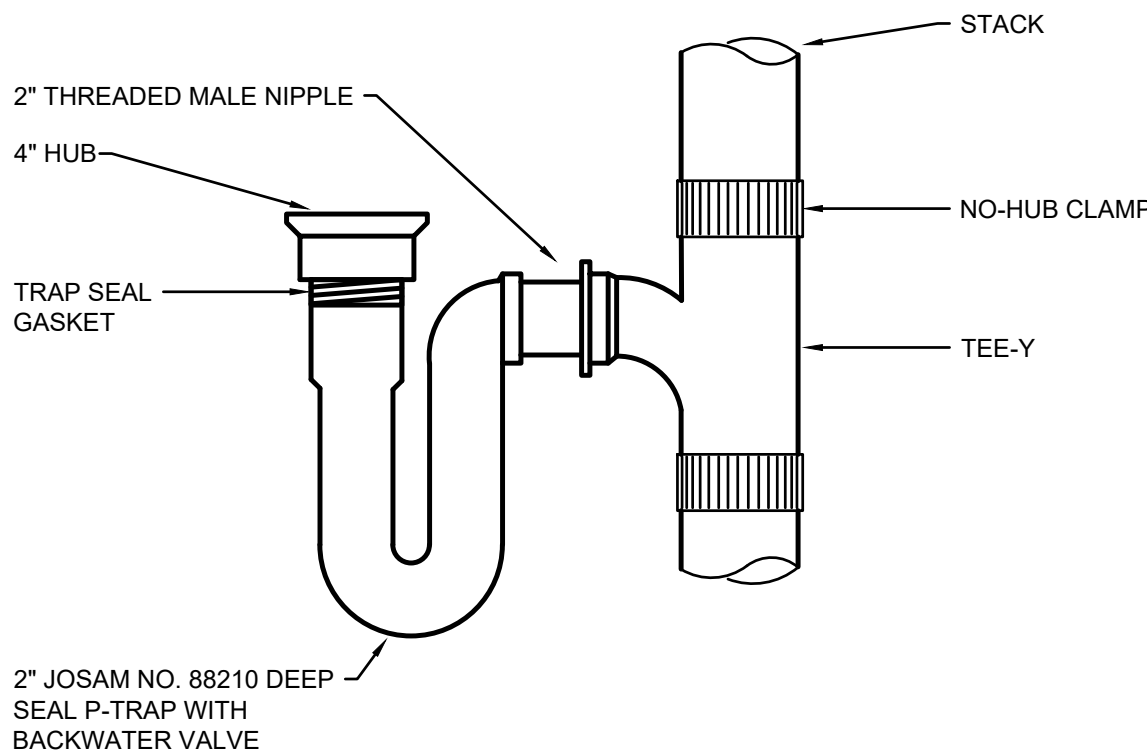
HANGER ROD SCHEDULE		HANGER ROD SPACING	
PIPE SIZE	ROD SIZE	PIPE SIZE	MAX. ALLOWABLE SPACING
UP TO 2"	3/8" DIA.	1"	7'
2 1/2" & 3"	1/2" DIA.	1 1/4"	8'
4" AND 5"	5/8"	1 1/2"	9'
6" - 8"	3/4"	2"	10'
10 & 12"	7/8"	2 1/2"	11'
		3" - 12"	12'

NTS

NOTE:
FIRESTOP SEALANTS AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH THE UL FIRE RESISTANCE DIRECTORY.



NTS



NOTE:
TRAP TO BE INSTALLED ABOVE CEILING. PROVIDE ACCESS PANEL AS REQUIRED.

NTS

SYMBOL	DESCRIPTION	FIXTURE				FIXTURE			SERVICES					REMARKS
		MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	MODEL	TYPE	S/W	V	CW	HW	TW	
<u>S-1</u>	SINK	ELKAY	LRAD202265	DROP-IN	19 1/2"x22"x6 1/4"	CHICAGO	895-317GN2AE35ABCP	MANUAL	2"	1 1/2"	1/2"	1/2"	-	STAINLESS STEEL, 16"x16"x6 1/8" DEEP, STAINLESS FINISH GOOSENECK FAUCET W/ SINGLE HOLE, 4" WRIST BLADE HANDLES. PROVIDE CHROME PLATED HEAVY DUTY P-TRAP W/ CLEANOUT, SUPPLIES & STOPS. BARRIER FREE, ADA COMPLIANT.

NOTES

1. ALL BARRIER FREE & ADA FIXTURES SHALL BE INSTALLED PER ADA AND STATE REQUIREMENTS.
2. ALL PLUMBING FIXTURES, EQUIPMENT & ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS
3. REFER TO ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE, INCLUDING ADA FIXTURE, MOUNTING HEIGHTS.

PLUMBING DEMO KEY NOTES

1

REMOVE AND DISCARD EXISTING COUNTER MOUNTED SINK & FAUCET. CUT AND CAP EXISTING HOT & COLD WATER SUPPLY AND WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.

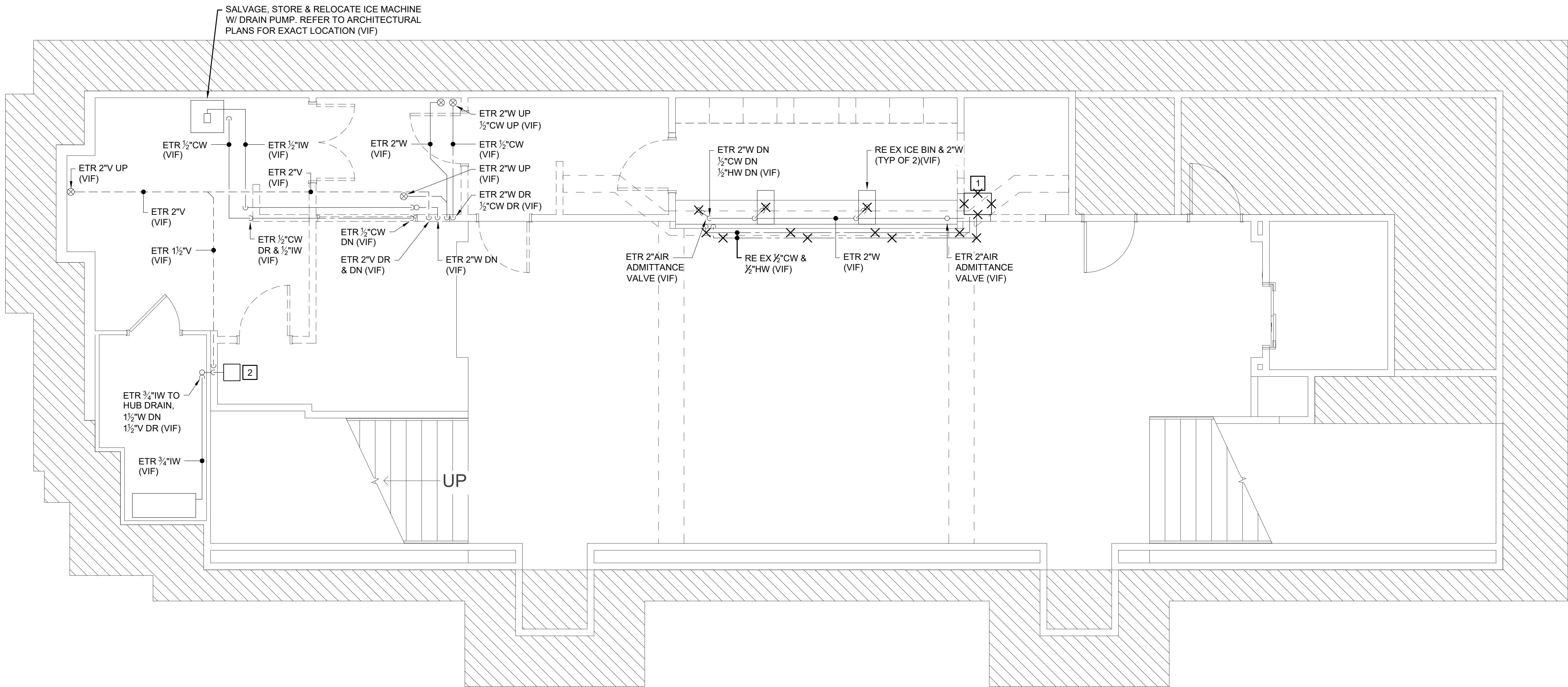
2

REMOVE AND DISCARD EXISTING DRINKING FOUNTAIN SINK & FAUCET. CUT AND CAP EXISTING HOT & COLD WATER SUPPLY AND WASTE & VENT LINES BACK TO EXISTING RESPECTIVE MAIN LINES.

NOTES:

1. COORDINATE EXISTING PLUMBING FIXTURES AND EQUIPMENT PRIOR TO REMOVAL. SALVAGE ANY EXISTING PLUMBING FIXTURES & EQUIPMENT AS REQUIRED AND RETURN TO THE OWNER.

2. VERIFY EXACT LOCATIONS OF ALL ABOVE AND BELOW GROUND DOMESTIC WATER, SANITARY WASTE & VENT MAIN PIPING IN FIELD.



1 DEMO FLOOR PLAN - SANITARY, WASTE, VENT & STORM
1/4" = 1'-0"

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REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED FOR BID

ISSUED DATE: JULY 1, 2026

SHEET TITLE
PLUMBING
DEMO FLOOR PLAN

DRAWING NO.
P1.0

PLOT CREATED: 5/14/2026 4:44:08 PM

PLUMBING KEY NOTES

1

NEW COUNTER MOUNTED SINK & FAUCET:
1/2"CW DR, 1/2"HW DR, 2"W DN, 1/2"V DR

NOTE:

CONNECT ALL DOMESTIC WATER, SANITARY WASTE & VENT
SUPPLY PIPING FROM NEW FIXTURES & EQUIPMENT TO
RESPECTIVE MAIN LINES. COORDINATE EXACT LOCATIONS
IN FIELD PRIOR TO INSTALLATION.

WALK-IN COOLER CONDENSATE PUMP NOTE:

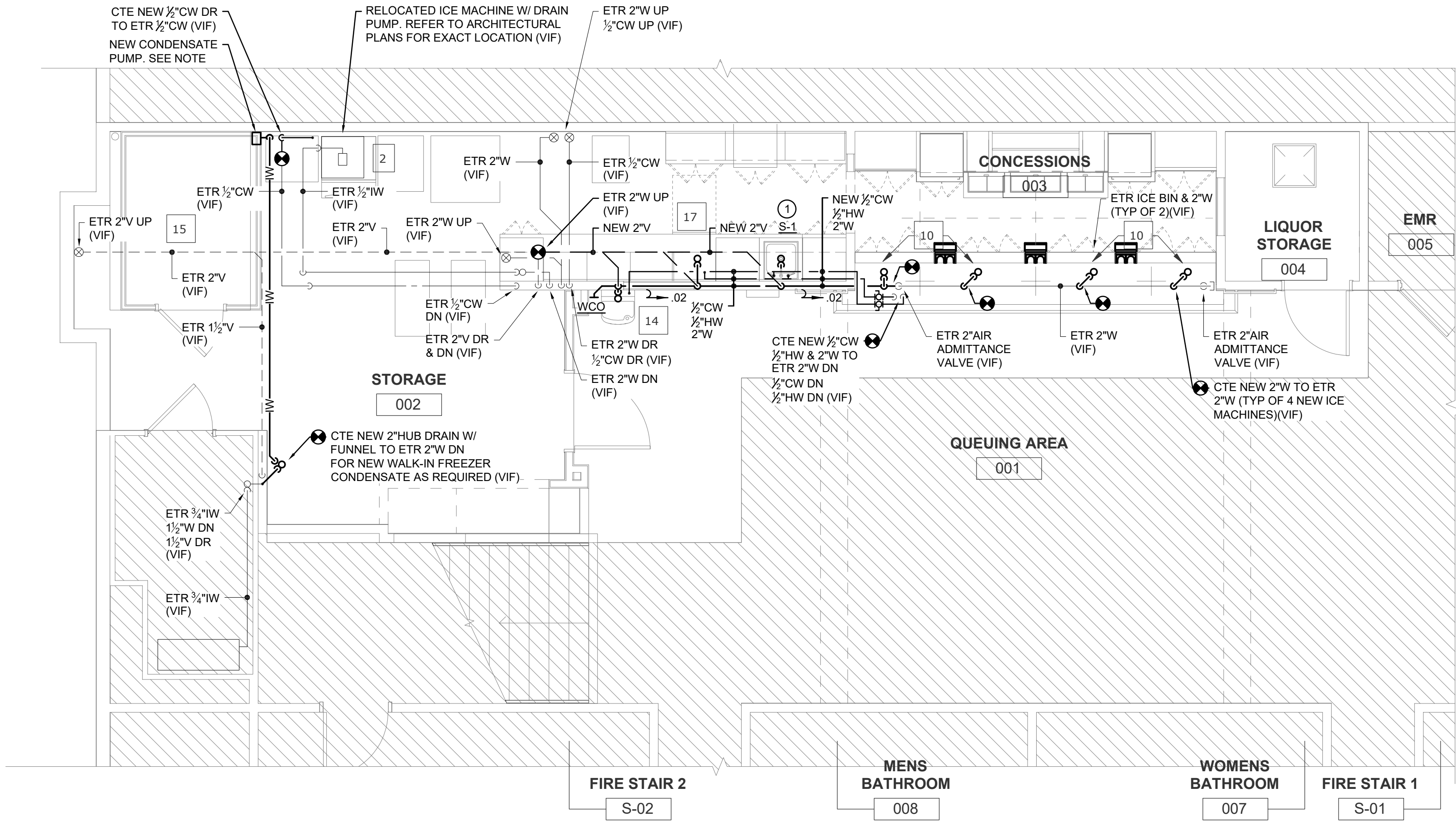
1.

PROVIDE & INSTALL ONE (1) CONDENSATE PUMP EQUAL
TO HARTELL MODEL #A2X-1965. PIPE CONDENSATE PIPE
TO HUB DRAIN (ELECTRICAL: 115V, 3.5FLA)

2.

COORDINATE CONDENSATE PUMP LOCATION WITH
OWNER PRIOR TO INSTALLATION.

FF&E & HARD FINISH LEGEND & NOTES:									
NUMBER	PRODUCT NAME	MANUFACTURER	MODEL	LENGTH	WIDTH	HEIGHT	NEW / EXG	OFCI	CFCI
2	ICE MACHINE CHEST	ETR	ETR	-	-	-	EXG	YES	
10	ICE CHEST	ADVANCE TABCO	SLI-12-12	12"	12"	33"	NEW	YES	
14	DRINKING FOUNTAIN	ELKAY	EZS8L	18 3/8"	19"	19 13/16"	NEW	NO	YES
15	WALK IN FREEZER	ASTRA	CNF6X8-30R	6' - 7"	8' - 2"	7' - 3"	NEW	YES	
17	DISHWASHER	NOBLE	NOBLE UH30-E	24 1/4"	26"	33 5/16"	NEW	NO	YES
NOTE: ALL EQUIPMENT SHALL BE PROVIDED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR.									



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

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SCALE DRAWINGS FOR MEASUREMENTS,
BUT SHALL VERIFY AT THE SITE ALL
LEVELS AND MEASUREMENTS NECESSARY
FOR COMPLETE FABRICATION, ASSEMBLY
AND INSTALLATION OF THE WORK.
MINOR DETAILS OF THE WORK NOT
SPECIFICALLY SHOWN ON THE
DRAWINGS SHALL BE ASCERTAINED BY
THE CONTRACTOR AT THE SITE OF THE
WORK, AND SHALL BE ACCOMPLISHED
WITH THE INTENT OF THIS PROJECT.

REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED FOR
BID

ISSUED DATE: JULY 1, 2026

SHEET TITLE
PLUMBING
PROPOSED FLOOR PLAN

DRAWING NO.
P2.0

PLUMBING SPECIFICATIONS

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS:

- A. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND SERVICES NECESSARY TO FURNISH, FABRICATE AND INSTALL ALL WORK SPECIFIED HEREIN. REFER TO THE DRAWINGS FOR FURTHER DEFINITION OF LOCATION, EXTENT AND DETAILS OF THE WORK.
- B. WHERE THE SPECIFICATIONS REFER TO PRODUCTS, BY NAME, CATALOG NUMBER AND/OR MANUFACTURER, IT IS THE INTENT OF THE SPECIFICATION THAT THE CONTRACTOR SHALL SUBMIT THE SPECIFIED PRODUCTS TO THE ARCHITECT/ENGINEER FOR APPROVAL.

1.02 WORK INCLUDED:

- A. THE INTENTION OF THE SPECIFICATIONS AND PLANS IS TO PROVIDE FOR FURNISHED SYSTEMS, PROPERLY TESTED, BALANCED AND READY FOR OPERATION, INCLUDING NECESSARY MINOR DETAILS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE, EVEN THOUGH SUCH ITEMS MAY NOT BE EXPRESSLY SHOWN OR SPECIFIED.
- B. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATION INCLUDES THE FURNISHING OF ALL LABOR AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE PLUMBING WORK SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN AND SHALL BE INTERPRETED AS WORK TO BE DONE BY THIS CONTRACTOR. WORK TO BE PERFORMED BY OTHER TRADES WILL ALWAYS BE SPECIFICALLY REFERENCED TO A PARTICULAR CONTRACTOR AND/OR SECTION.
- C. CONTRACTOR, PRIOR TO SUBMITTING BID SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO INSPECT THAT ALL PROVISIONS HAVE BEEN MADE FOR ALL ASPECTS OF THIS PROJECT. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE PLUMBING CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
- D. WITHOUT LIMITING GENERALITY, PROVIDED ALL LABOR, MATERIAL, AND EQUIPMENT FOR A COMPLETE PLUMBING SYSTEM AS DESCRIBED BELOW:
 - 1. DOMESTIC HOT & COLD WATER PIPING SYSTEMS
 - 2. SANITARY, WASTE AND VENT PIPING SYSTEMS.
 - 3. PLUMBING FIXTURES, TRIM & TOILET ROOM ACCESSORIES.
 - 4. PIPE INSULATION, SLEEVING AND FIRESTOPPING.
 - 5. HANGERS, SUPPORTS, ACCESS PANELS
 - 6. CORE DRILLING, CUTTING, AND PATCHING.
 - 7. FLUSHING, DISINFECTING, TESTING AND BALANCING.
 - 8. FURNISHING OF ACCESS PANELS.
 - 9. PERMITS AND FEES.
 - 10. ALTERATIONS, ADDITIONS AND/OR REMOVAL OF EXISTING PLUMBING SYSTEMS AND FIXTURES WITHIN THE RENOVATED AREA IN ORDER TO CONFORM TO NEW SPACE REQUIREMENTS.

1.03 REGULATORY REQUIREMENTS, CODES, ORDINANCES AND PERMITS

- A. ALL PLUMBING WORK SHALL BE PERFORMED BY A STATE LICENSED PLUMBER IN STRICT ACCORDANCE WITH AUTHORITY HAVING JURISDICTION (AHJ), STATE & LOCAL CODES, LAWS AND ORDINANCES.
- B. WHERE CODE REFERENCES ARE GIVEN, THE LATEST ISSUE OF THAT CODE IN EFFECT AT THE TIME OF BIDDING SHALL BE USED.
- C. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND FILING ALL PLANS, SPECIFICATIONS AND OTHER DOCUMENTS, PAY ALL REQUISITE FEES AND SECURE ALL PERMITS, INSPECTIONS AND APPROVALS NECESSARY FOR THE LEGAL INSTALLATION AND OPERATION OF THE SYSTEM AND/OR EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.
- D. THIS CONTRACTOR SHALL FRAME UNDER GLASS ALL PERMITS, SECURED BY THEM, ADJACENT TO THE RESPECTIVE SYSTEM AND/OR EQUIPMENT AND REQUIRED TO BE DISPLAYED BY CODE, LAW AND ORDINANCE. THOSE PERMITS SECURED BUT NOT REQUIRED TO BE DISPLAYED SHALL BE INCLUDED IN THE OWNER'S MAINTENANCE MANUAL.

1.04 SUBMITTALS:

- A. PROVIDE SHOP DRAWINGS FOR ALL FIXTURES AND EQUIPMENT FOR ALL WORK PROVIDED UNDER THIS CONTRACT TO THE ARCHITECT/ENGINEER FOR THEIR REVIEW AND APPROVAL PRIOR TO ORDERING, FABRICATING OR INSTALLING.

1.05 COORDINATION:

- A. WORK SHALL BE PERFORMED IN COOPERATION WITH OTHER TRADES ON THE PROJECT AND SO SCHEDULED AS TO ALLOW SPEEDY AND EFFICIENT COMPLETION OF THE WORK.
- B. FURNISH TO OTHER TRADES ADVANCE INFORMATION ON LOCATIONS AND SIZES OF ALL FRAMES, BOXES, SLEEVES AND OPENINGS NEEDED FOR THEIR WORK, AND ALSO FURNISH INFORMATION AND SHOP DRAWINGS NECESSARY TO PERMIT TRADES AFFECTED BY THE WORK TO INSTALL SAME PROPERLY AND WITHOUT DELAY.
- C. IF ANY PLUMBING WORK HAS BEEN INSTALLED BEFORE COORDINATION WITH OTHER TRADES SO AS TO CAUSE INTERFERENCE WITH THE WORK OF SUCH TRADES, ALL NECESSARY ADJUSTMENTS AND CORRECTIONS SHALL BE MADE BY THE PLUMBING TRADES INVOLVED WITHOUT EXTRA COST TO THE OWNER.
- D. PROTECT ALL MATERIALS AND WORK OF OTHER TRADES FROM DAMAGE WHICH MAY BE CAUSED BY THE PLUMBING WORK, AND REPAIR ALL DAMAGES WITHOUT EXTRA COST TO THE OWNERS.
- E. THIS CONTRACTOR, PRIOR TO SUBMITTING BID SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO INSPECT THAT ALL PROVISIONS HAVE BEEN MADE FOR ALL ASPECTS OF THIS PROJECT. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE PLUMBING CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
- F. PLUMBING EQUIPMENT AND SUCH OTHER APPARATUS THAT MAY REQUIRE MAINTENANCE AND OPERATION SHALL BE MADE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE. IN SUCH CASES, THE OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED BEFORE ADVANCING THE CONSTRUCTION TO A STAGE WHERE A CHANGE WILL REFLECT ADDITIONAL EXPENSE.
- G. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE OF EQUIPMENT.
- H. PLUMBING WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EQUIPMENT, DUCTS OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. PLUMBING CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.
- I. THIS CONTRACTOR SHALL OBTAIN DETAILED PRINTED INFORMATION FROM THE MANUFACTURER OF EQUIPMENT WHICH THEY ARE TO PROVIDE FOR THE PROPER METHODS OF INSTALLATION. THEY SHALL ALSO OBTAIN ALL INFORMATION FROM THE GENERAL CONTRACTOR AND OTHER CONTRACTORS WHICH MAY BE NECESSARY TO FACILITATE THEIR WORK AND THE COMPLETION OF THE WHOLE PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- J. THE WORK TO BE ACCOMPLISHED UNDER THIS SECTION INCLUDES WORK WITHIN EXISTING AREAS ADJACENT TO THE SITE OF NEW CONSTRUCTION. CONTINUITY OF SERVICES WITHIN EXISTING AREAS SHALL BE MAINTAINED. ANY INTERRUPTION OF SERVICES NECESSARY TO ACCOMPLISH THE WORK SHALL BE MADE ONLY WITH THE CONSENT OF THE GENERAL CONTRACTOR AND AT SUCH TIME(S) AS THE OWNER DESIGNATES.
- K. THIS CONTRACTOR SHALL NOT UNNECESSARILY DISTURB OR INTERFERE WITH THE OWNER'S USE OF THE FACILITIES ASSOCIATED WITH OR ADJACENT TO THIS CONTRACT. WHEN INTERFERENCE IS NECESSARY, PERMISSION SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR BEFORE ANY OPERATION OR SERVICE LINE IS DISTURBED OR DISCONNECTED.
- L. THIS CONTRACTOR SHALL INCLUDE UNDER COORDINATION WORK THE INSTALLATION OF ALL SYSTEMS IN CONFORMANCE WITH GOVERNING CODES. THIS CONTRACTOR IS ADVISED THAT NO PIPING OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH SUCH SPACES OR ROOMS PROVIDED FOR SWITCHBOARDS AND PANELBOARDS IN ACCORDANCE WITH ARTICLE 384 OF THE NATIONAL ELECTRICAL CODE.

1.06 PLUMBING AND ELECTRICAL COORDINATION:

- A. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL VARIOUS ELECTRICAL ITEMS RELATING TO THE PLUMBING EQUIPMENT AND CONTROL APPARATUS. THE ELECTRICAL SUBCONTRACTOR SHALL BE REQUIRED TO CONNECT POWER WIRING TO THIS EQUIPMENT UNLESS NOTED OTHERWISE.

- B. THE PLUMBING AND ELECTRICAL SUBCONTRACTOR SHALL COORDINATE THEIR RESPECTIVE PORTIONS OF THE WORK, AS WELL AS THE ELECTRICAL CHARACTERISTICS OF THE PLUMBING EQUIPMENT.
- C. ALL POWER WIRING AND LOCAL DISCONNECT SWITCHES WILL BE PROVIDED BY THE ELECTRICAL SUBCONTRACTOR FOR THE LINE VOLTAGE POWER. ALL CONTROL AND INTERLOCKING WIRING SHALL BE THE RESPONSIBILITY OF THE PLUMBING SUBCONTRACTOR.
- D. 120V POWER WIRING SOURCES EXTENDED AND CONNECTED TO HEATING AND VENTILATING CONTROL PANELS, TRANSFORMERS AND SWITCHES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR. ALL LOW VOLTAGE THERMOSTAT, ZONE VALVE AND ANY SWITCH WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR.
- E. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ELECTRICAL DIVISION.

1.07 INSTALLATION REQUIREMENTS:

- A. THE ARRANGEMENT OF ALL PLUMBING WORK SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE MINIMUM REQUIREMENTS OF THE WORK. CONDITIONS AT THE BUILDING INCLUDING ACTUAL MEASUREMENTS SHALL DETERMINE THE DETAILS OF THE INSTALLATION.
- B. INSTALL ALL MATERIALS, ACCESSORIES AND EQUIPMENT ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AND MANUFACTURERS INSTRUCTIONS.
- C. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR PLUMBING EQUIPMENT INSTALLATION SHALL BE PROVIDED BY PLUMBING CONTRACTOR. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.
- D. CONTRACTOR SHALL DRAIN EXISTING SYSTEM AS REQUIRED TO PERFORM NEW WORK AND CONNECTIONS. ONCE WORK IS COMPLETE THE CONTRACTOR SHALL FLUSH, FILL, TEST AND BALANCE ALL SYSTEMS.

1.08 RECORD DRAWINGS

- A. PROVIDE RECORD AS-BUILT DRAWINGS. THE CONTRACTOR SHALL KEEP DAILY UPDATED ACCURATE RECORDS OF ALL DEVIATIONS IN WORK AS ACTUALLY INSTALLED FROM WORK INDICATED ON THE CONTRACT DRAWINGS. WHEN WORK IS COMPLETED THIS CONTRACTOR SHALL PROVIDE TO THE OWNER ONE COMPLETE SET OF MARKED-UP ORIGINAL PRINTS, UPDATED CAD DRAWINGS AND A USB STORAGE DEVICE WITH CAD FILES.

1.09 GUARANTEE/WARRANTY

- A. ALL NEW MATERIALS, ITEMS OR EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CARRY STANDARD WARRANTY AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF WORK. ANY FAULT DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR MANUFACTURING DESIGN WHICH MAY DEVELOP WITHIN THAT PERIOD SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THIS CONTRACTOR, INCLUDING ALL OTHER DAMAGES DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE.
- B. THIS CONTRACTOR SHALL GUARANTEE THAT ALL NEW ELEMENTS OF THE SYSTEMS MEET THE SPECIFIED PERFORMANCE REQUIREMENTS AS SET FORTH HEREIN OR AS INDICATED ON THE DRAWINGS.

1.10 APPROVALS AND SUBSTITUTIONS:

- A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHEREVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE ALLOWED, THEY SHALL CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM CRITERIA AS DELINEATED, SPECIFIED EQUIPMENT SHALL BE INTERPRETED AS MINIMUM PERFORMANCE REQUIREMENTS.
- B. SUBSTITUTED EQUIPMENT WHERE PERMITTED MUST CONFORM TO SPACE REQUIREMENTS, ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY MODIFICATION OF RELATED SYSTEMS OR ADDITIONAL COSTS THAT RESULT FROM SUBSTITUTED EQUIPMENT SHALL BE BORNE BY THIS CONTRACTOR.
- C. IT SHALL BE MANDATORY FOR THIS CONTRACTOR TO SUBMIT THEIR BID PRICE BASED ON SPECIFIED MANUFACTURERS OR SUPPLIERS OF MATERIALS OR SERVICES. IF THE CONTRACTOR DESIRES TO SUBSTITUTE OTHER THAN SPECIFIED, THEY SHALL SUBMIT SEPARATE PRICES FOR EACH OF THESE ITEMS FOR ADDITIONS OR DEDUCTIONS TO THE BID PRICE. FOR ACCEPTANCE OR REJECTION AT THE TIME BIDS ARE DUE. SHOULD THESE SUBSTITUTIONS BE REJECTED, THE CONTRACTOR SHALL BE OBLIGED TO PROVIDE SPECIFIED MATERIALS AND SERVICES.

PART II - PRODUCTS

2.01 PIPING:

- A. WATER PIPING ABOVE SLAB, AT VALVES, GAUGES, FITTINGS AND OTHER APPURTENANCES, SHALL BE TYPE "L" COPPER ASTM-B-88 WITH 95.5 TIN-ANTIMONY SOLDERED JOINTS & WROUGHT FITTINGS. WATER PIPING BELOW SLAB, SHALL BE TYPE "K" SOFT COPPER TUBING "ONE PIECE-WITHOUT JOINTS".
- B. ALL EXPOSED WASTE AND WATER PIPING IN FINISHED AREAS SHALL BE CHROME PLATED.
- C. NEW SANITARY WASTE & VENT AND STORM PIPING SHALL BE SOLID CORE PVC DWV PIPE, ASTM D 2665, SOCKET TYPE, MADE TO ASTM D 3311, DRAIN, WASTE AND VENT PATTERNS. CELLULAR "FOAM" CORE PVC PIPING SHALL NOT BE INSTALLED.
- D. INCLUDE THE WRAPPING OF PVC PIPING WITHIN EXISTING PLENUMS WITH BLANKET TYPE INSULATION, SIMILAR TO "FYREWRAPI". VERIFY LOCATIONS OF EXISTING PLENUMS IN FIELD.
- E. PROVIDE ALL NECESSARY SUPPORTS, HANGERS, BRACES, ANCHORS, PADS AND ALL ELSE NECESSARY FOR THE ENTIRE INSTALLATION AND TO MEET THE INTENT OF THE SYSTEMS FOR PROPER OPERATION.
- F. PIPE AND EQUIPMENT SUSPENSION SHALL BE SUCH AS TO PREVENT EXCESSIVE STRESS. EXCESSIVE VARIATION IN SUPPORTING FORCE, POSSIBLE RESONANCE WITH IMPOSED VIBRATION WHILE THE SYSTEM IS IN OPERATION CREEPING, SAGGING, BUCKLING, OR MISALIGNMENT.
- G. SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT ANY OBJECTIONAL SOUND OR VIBRATION.
- H. OPENINGS IN EXTERIOR WALLS OR ROOF SHALL BE KEPT PROPERLY PLUGGED AND CAULKED AT ALL TIMES, EXCEPT WHEN BEING WORKED ON TO PRECLUDE THE POSSIBILITY OF FLOODING DUE TO STORM OR OTHER CAUSES. AFTER COMPLETION OF WORK, OPENINGS SHALL BE PERMANENTLY SEALED AND CAULKED IN A MANNER APPROVED BY THE ENGINEER OR ARCHITECT.
- I. PROVIDE DI-ELECTRIC FITTINGS BETWEEN DISSIMILAR METALS.

2.02 INSULATION:

- A. ALL INSULATION WHEN INSTALLED SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM-E-84, NFPA-255, AND UL-723, NOT EXCEEDING A FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 WHEN COMPARED WITH RED OAK AS 100, AS APPROVED UNDER NFPA AND NBFU PAMPHLET NO. 90A AND NO. 90B STANDARDS.
- B. DOMESTIC WATER PIPING ABOVE GROUND SHALL BE INSULATED WITH FIBERGLASS INSULATION WITH FACTORY-APPLIED ALL-SERVICE JACKET SECURED IN PLACE WITH SELF SEALING LAPS. FITTINGS SHALL BE INSULATED WITH PREMOLEDED PVC COVERS SECURED IN PLACE WITH STAINLESS STEEL TACKS. DOMESTIC WATER PIPING BELOW GROUND SHALL BE INSULATED WITH 1" THICK "ARMAFLEX" ELASTOMERIC UNICELLULAR SEAMLESS INSULATION.
- C. PIPING INSULATION MATERIALS AS MANUFACTURED BY GUSTIN-BACON, JOHNS MANVILLE, OWENS-CORNING, KNAUF, OR CERTAIN TEEED.
- D. ABOVE GROUND PIPING INSULATION THICKNESS:
 - 1. COLD WATER (UP TO 1½") : ½"
 - 2. COLD WATER (1½" & GREATER) : 1"
 - 3. HOT WATER SUPPLY (UP TO 1½") : 1½"
 - 4. HOT WATER SUPPLY (1½" & GREATER) : 2½"
- E. WASTE, COLD WATER AND HOT WATER BENEATH HANDICAPPED LAVATORIES SHALL BE INSULATED WITH BROCAR PRODUCTS SERIES 500 INSULATION KIT FOR P TRAP ASSEMBLY AND HOT WATER AND COLD WATER ANGLE VALVE ASSEMBLY. KIT SHALL BE WHITE FLEXIBLE VINYL INSULATION SECURED WITH NYLON FASTENERS SUPPLIED, FOAM INSERTS, ANTIMICROBIAL.

- F. ALL PVC PIPE AND FITTINGS (IF APPROVED FOR INSTALLATION) LOCATED IN PLENUM CEILING SPACE SHALL BE INSULATED WITH UL LISTED 25/50 RATED PLENUM RATED INSULATION EQUAL TO FYRE WRAP INSULFRAX THERMAL INSULATION. EDGES SHALL BE SEALED WITH ALUMINUM FOIL TAPE. PROVIDE 1" PERIMETER OVERLAP OUTSIDE OF PLENUM SPACE.

2.03 VALVES:

- A. ALL SHUT OFF VALVES ON COLD WATER AND HOT WATER PIPING FROM ½ INCH UP TO AND INCLUDING 2 INCH SHALL BE APOLLO SERIES 77-200, SOLDER END, BRONZE BODY BALL VALVE, CHROME-PLATED BRONZE BALL, 600 PSI WOG, FULL PORT BALL VALVE.
- B. ALL SHUT OFF VALVES ON COLD WATER AND HOT WATER PIPING ½ INCH, 2-1/2 INCH AND 3 INCH SHALL BE APOLLO SERIES 70-200, SOLDER END, BRONZE BODY BALL VALVE, CHROME-PLATED BRONZE BALL, 600 PSI WOG.
- C. ALL DRAIN VALVES SHALL BE ½ INCH APOLLO MODEL 78-103 WITH WATTS NO. 8A HOSE CONNECTION VACUUM BREAKER, CAP WITH CHAIN OF LENGTH AS REQUIRED.
- D. ALL BALL VALVES FOR INSTALLATION IN INSULATED PIPING SHALL HAVE VALVE EXTENSIONS TO SUIT INSULATION THICKNESS.
- E. IN GENERAL, ALL PLUMBING FIXTURES SHALL BE WALL HUNG, WHITE VITREOUS CHINA WITH CHROME-PLATED FAUCETS, STOPS AND TRAPS. ALL SUPPLY STOP VALVES SHALL BE BRASS BODY AND STEM AND HAVE THREADED OR SWEAT SOLDER INLET. PROVIDE WALL ESCUTCHEONS. FIXTURES AND TRIM SHALL BE OF THE SAME MANUFACTURER SIMILAR TO AMERICAN STANDARD, TOTO OR ZURN.
- B. FIXTURES DESIGNATED FOR BARRIER FREE USE SHALL BE MOUNTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AS WELL AS STATE AND LOCAL CODES. WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS.
- C. ALL LAVATORY CONTROLS, WHERE APPLICABLE, SHALL BE ADJUSTED BY INSTALLING PLUMBER PRIOR TO THE FINAL INSPECTION. CONTROLS SHALL BE SET TO DELIVER WATER AT A MAXIMUM TEMPERATURE OF 110 DEGREES F. A THERMOSTATIC MIXING VALVE SHALL BE PROVIDED AT ALL FIXTURES TO ACHIEVE MAXIMUM TEMPERATURE AS REQUIRED.

2.05 ACCESS PANELS:

- A. FURNISH ALL ACCESS PANELS FOR WALLS AND CEILINGS. COORDINATE THE ACCESS PANEL LOCATION WITH GENERAL ACTOR. PIPING SHALL BE LAID OUT IN SUCH A MANNER AS TO MINIMIZE THE NUMBER OF ACCESS PANELS REQUIRED. MILCOR PRODUCTS, VENTLOCK, KNAPP. MINIMUM SIZE: 12" X 18".
- B. PROVIDE ACCESS PANELS FOR ALL CLEANOUTS, VALVES, AND OTHER CONCEALED ACCESSORIES REQUIRING ACCESS SUCH AS SHOCK ABSORBERS, CONTROL VALVES, PRESSURE REDUCERS, AIR ARRESTORS, ETC.

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PROJECT NAME

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PROJECT NO.

25114

THESE DRAWINGS ARE FOR THE CONSTRUCTION OF THE PROJECT LISTED ABOVE AND ARE NOT TO BE COPIED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF ZDS, INC. THE GENERAL CONTRACTOR SHALL NOT SCALE DRAWINGS FOR MEASUREMENTS, BUT SHALL VERIFY AT THE SITE ALL LEVELS AND MEASUREMENTS NECESSARY FOR COMPLETE FABRICATION, ASSEMBLY AND INSTALLATION OF THE WORK. MINOR DETAILS OF THE WORK NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL BE ASCERTAINED BY THE CONTRACTOR AT THE SITE OF THE WORK, AND SHALL BE ACCOMPLISHED WITH THE INTENT OF THIS PROJECT.

REVISIONS

NO.	DESCRIPTION	DATE

ISSUED FOR
BID

ISSUED DATE:

JULY 1, 2026

SHEET TITLE

PLUMBING
SPECIFICATIONS

DRAWING NO.

P3.0

PLUMBING SPECIFICATIONS

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- A. FURNISH ALL ACCESS PANELS FOR WALLS AND CEILINGS. COORDINATE THE ACCESS PANEL LOCATION WITH GENERAL ACTOR. PIPING SHALL BE LAID OUT IN SUCH A MANNER AS TO MINIMIZE THE NUMBER OF ACCESS PANELS REQUIRED. MILCOR PRODUCTS, VENTLOCK, KNAPP. MINIMUM SIZE: 12" X 18".
- B. PROVIDE ACCESS PANELS FOR ALL CLEANOUTS, VALVES, AND OTHER CONCEALED ACCESSORIES REQUIRING ACCESS SUCH AS SHOCK ABSORBERS, CONTROL VALVES, PRESSURE REDUCERS, AIR ARRESTORS, ETC.

2.07 IDENTIFICATION, MARKING AND TAGGING:

- A. EQUIPMENT IDENTIFICATION:
 - 1. MANUFACTURER'S NAMEPLATES OR TRADEMARK SHALL BE PERMANENTLY AFFIXED TO ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS DIVISION. MANUFACTURER'S NAMEPLATES SHALL INCLUDE ALL PERTINENT DATA RELATIVE TO THE PIECE OF EQUIPMENT INCLUDING MODEL NUMBER, SERIAL NUMBER, AND OPERATING CHARACTERISTICS AS APPLICABLE.
 - 2. MARKERS SHALL BE OF RIGID BLACK BAKELITE OR PHENOLIC CONSTRUCTION WITH WHITE ENGRAVED OR INCISED LETTERS.
 - 3. LETTERING ON EQUIPMENT MARKERS SHALL BE OF ADEQUATE SIZE TO BE LEGIBLE FROM FLOOR LEVELS. MARKER LETTERING SHALL NO BE LESS THAN 1" INCH HIGH.
 - 4. MOUNT EQUIPMENT IDENTIFICATION NAMEPLATES IN A CONSPICUOUS PLACE ON ON THE EQUIPMENT.
 - 5. FOR EQUIPMENT ABOVE THE FLOOR LEVEL, MOUNT IDENTIFICATION NAMEPLATE SO THAT CAN BE SEEN FROM FLOOR LEVEL.
 - 6. ATTACH NAMEPLATES WITH RIVETS.
- B. PIPING SYSTEM IDENTIFICATION:
 - 1. PIPING SYSTEMS SHALL BE IDENTIFIED AS INDICATED HEREIN OR AS REQUIRED BY APPLICABLE CODES AND/OR OFFICIALS HAVING JURISDICTION.
 - 2. PIPE MARKERS SHALL BE COLOR CODED ACCORDING TO "TABLE 2: CLASSIFICATION OF MATERIALS AND DESIGNATIONS TO COLORS" - ANSI A13.1-1981.
 - 3. PIPE MARKERS SHALL INDICATE DIRECTION OF FLOW, SYSTEM, OPERATING PRESSURE AND TEMPERATURE.
 - 4. PIPE MARKERS SHALL BE OF THE PRESSURE SENSITIVE TYPE AS MANUFACTURED BY THE SETON NAMEPLATE CORP. (F10-CODE)
 - 5. PIPE MARKERS SHALL BE INSTALLED AT EVERY POINT OF ENTRY AND EXIT THROUGH FLOORS, WALLS, CEILINGS OR OTHER CEALMENT, ON EACH RISER, TAKE-OFF AND BRANCH AND AT EACH PIECE OF EQUIPMENT.
 - 6. INSTALL PIPE MARKERS AT A DISTANCE OF NOT LESS THAN 25 FEET APART IN CONTINUOUS LENGTHS OF PIPE LINES AND ORIENTED SO THAT MARKERS ARE CLEARLY VISIBLE. WHEN PIPE LINES ARE LOCATED ABOVE THE NORMAL LINE OF VISION, THE MARKER SHALL BE PLACED BELOW THE HORIZONTAL CENTERLINE OF THE PIPE.
- C. VALVE IDENTIFICATION:
 - 1. PROVIDE LAMINATED PLASTIC NAMEPLATES ON ALL VALVES INSTALLED UNDER DIVISION 15, EXCEPT STOP VALVES IN SUPPLIES TO FIXTURES. TAGS SHALL BE CONSTRUCTED OF 0.125 INCHES THICK MELAMINE PLASTIC CONFORMING TO FED. SPEC. LP-387. SURFACE SHALL BE MATTE FINISH. ACCURATELY ALIGN LETTERING AND ENGRAVE INTO WHITE CORE. NAMEPLATES SHALL BE TO 2 INCHES ROUND OR HEXAGONAL. LETTERING SHALL BE MINIMUM OF 0.375 INCH HIGH. NORMAL BLOCK LETTERING. KEY THE NAMEPLATES TO A CHART AND SCHEDULE FOR EACH SYSTEM UNDER GLASS AND PLACE WHERE DIRECTED IN MECHANICAL ROOM. FURNISH FOUR COPIES OF EACH CHART AND SCHEDULE. EACH INSCRIPTION SHALL IDENTIFY ITS FUNCTION. ATTACH NAMEPLATES WITH "S" HOOKS AND CHAIN TO EACH VALVE. VALVE NAMEPLATES SHALL BE NUMBERED AND "KEYED" AS FOLLOWS:
 - a. PLUMBING NAMEPLATES SHALL BE RED IN COLOR AND INDICATE:
 - 1. "CW" COLD WATER
 - 2. "HW" HOT WATER-INDICATE DESIGN TEMPERATURE OF WATER
 - b. CHART AND SCHEDULE SHALL INDICATE THE FOLLOWING INFORMATION:
 - 1. MANUFACTURER, TYPE, AND MODEL NUMBER
 - 2. CAPACITY OR SIZE
 - 3. SYSTEM IN WHICH IT IS INSTALLED
 - 4. SYSTEM OR EQUIPMENT WHICH IT CONTROLS
 - 5. LOCATION KEYED INTO VALVE NUMBER
 - c. VALVE TAGS AND CHAIN SHALL BE SECURELY ATTACHED TO THE VALVE SO THAT NORMAL OPERATION OF THE VALVE OR TAMPERING WILL NOT ALLOW IT TO BE REMOVED.

2.08 SLEEVES, INSERTS AND ESCUTCHEONS:

- A. PROVIDE SLEEVES FOR ALL WORK PASSING THROUGH FLOOR, WALL, AND CEILING CONSTRUCTION. MAINTAIN ALL RATINGS.
- B. LOCATE AND PROVIDE SLEEVES AND INSERTS BEFORE THE FLOOR, WALL OR CEILING IS CONSTRUCTED. IF THIS CONTRACTOR DOES NOT COMPLY WITH THE ABOVE, THEY SHALL BEAR ALL COSTS INCURRED FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF SLEEVES AND INSERTS. HOLES REQUIRED FOR SLEEVES IN EXISTING WALLS AND FLOORS, OR TO CONFORM TO THE ABOVE, SHALL BE SAW CUT OR CORE DRILLED. THIS CONTRACTOR SHALL PROVIDE ALL DRILLING REQUIRED FOR THE INSTALLATION OF HANGERS.
- C. PIPE SLEEVES THROUGH OUTSIDE WALLS AND SLAB-ON-GRADE FLOOR SHALL BE SCHEDULE 80 BLACK STEEL PIPE WITH 150 LB. BLACK STEEL SLIP-ON WELDED FLANGES WELDED AT THE CENTER OF THE OUTSIDE. EXTEND SLEEVES 1/2 INCHES BEYOND EACH SIDE OF THE WALL. PACK THE SPACE BETWEEN SLEEVE AND PIPE WITH OAKUM TO WITHIN 2 INCHES OF EACH FACE OF THE WALL. PACK THE REMAINING SPACE AND MAKE WATERTIGHT WITH AN APPROVED WATERPROOF COMPOUND. (INSIDE FACE OF SLAB ON GRADE FLOOR.) FOR EXISTING WALL CONSTRUCTION, CENTER FLANGE WILL NOT BE REQUIRED.
- D. PIPE SLEEVES THROUGH CONCRETE FLOORS OR INTERIOR MASONRY WALLS SHALL BE SCHEDULE 40 BLACK STEEL PIPE, SET FLUSH WITH FINISHED WALL OR CEILING SURFACES, BUT EXTENDING 2 INCHES ABOVE FINISHED FLOORS. PLASTIC, PVC, OR LIGHT METAL SLEEVES SHALL NOT BE INSTALLED.
- E. PROVIDE INDIVIDUAL OR STRIP TYPE INSERTS PRESSED STEEL CONSTRUCTION WITH ACCOMMODATION FOR REMOVABLE NUTS AND THREADED RODS UP TO 3/4 INCH DIAMETER, PERMITTING LATERAL ADJUSTMENT. INDIVIDUAL INSERTS SHALL HAVE AN OPENING AT THE TOP TO ALLOW REINFORCING RODS TO 1/2 INCH DIAMETER TO BE PASSED THROUGH THE INSERT BODY AND SHALL BE SIMILAR TO FEE AND MASON MANUFACTURING COMPANY FIGURE 178. STRIP INSERTS SHALL HAVE ATTACHED RODS WITH HOODED ENDS TO ALLOW FASTENING TO REINFORCING RODS SHALL BE SIMILAR TO FEE AND MASON MANUFACTURING COMPANY.
- F. WHERE PIPE MOTION DUE TO EXPANSION AND CONTRACTION WILL OCCUR, MAKE SLEEVES OF SUFFICIENT DIAMETER TO PERMIT FREE MOVEMENT OF PIPE. WHERE ALL SLEEVES PASS INSULATED PIPES, THE SLEEVES SHALL BE LARGE ENOUGH TO PASS THE PIPE AND THE INSULATION. CHECK FLOOR AND WALL CONSTRUCTION FINISHES TO DETERMINE PROPER LENGTH OF SLEEVES FOR VARIOUS LOCATIONS.
- G. ESCUTCHEON PLATES SHALL BE PROVIDED FOR ALL EXPOSED UNINSULATED PIPES PASSING THROUGH WALLS, FLOORS, AND CEILINGS. PLATES SHALL BE NICKEL PLATED, OF THE SPLIT RING TYPE, OF SIZE TO MATCH THE PIPE. WHERE PLATES ARE PROVIDED FOR PIPES PASSING THROUGH SLEEVES WHICH EXTEND ABOVE THE FLOOR SURFACE, PROVIDE DEEP RECESSED PLATES TO CONCEAL PIPE SLEEVES.
- H. FASTEN SLEEVES SECURELY IN FLOORS, WALLS, ETC. SO THAT THEY WILL NOT BECOME DISPLACED WHEN CONCRETE IS POURED OR WHEN CONSTRUCTION IS BUILT AROUND THEM. TAKE PRECAUTIONS TO PREVENT CONCRETE, PLASTER, OR OTHER MATERIALS BEING FORCED INTO THE SPACE BETWEEN PIPE AND SLEEVE DURING CONSTRUCTION.

PART III - EXECUTION

3.01 WATER:

- A. PIPING SHALL BE RUN PARALLEL WITH THE LINES OF THE BUILDING; WELL SUPPORTED FROM THE STRUCTURE. FREE FROM POCKETS AND SAGS. PITCHED TO DRAIN POINTS; AND INSTALLED WITH PIPE EXPANSION LOOPS, MECHANICAL EXPANSION JOINTS, PIPE GUIDES, OFFSETS AND ANCHORS TO ADEQUATELY PROVIDE FOR THERMAL EXPANSION.
- B. ABOVE GROUND PIPING SHALL BE INSTALLED TO PROVIDE NOT LESS THAN 3/4" SPACING FROM FINISHED COVERING TO OTHER COVERING OR SURFACES OF OTHER CONSTRUCTION. PIPING SHALL NOT MAKE CONTACT WITH OTHER PIPE, CONDUIT REINFORCING STEEL OR CONCRETE.
- C. ALL PIPING SHALL BE PROTECTED FROM WATER HAMMER OR SHOCKS BY APPROVED WATER HAMMER ARRESTORS.
- D. VALVES SHALL BE INSTALLED ON BRANCHES AND AT SINGLE FIXTURES WHEN TRIM DOES NOT INCLUDE STOPS. PROVIDE CHICAGO MODEL NO. 1018 HEAVY DUTY STOPS OR APPROVED EQUAL.
- E. FINAL CONNECTIONS SHALL BE MADE TO ALL EQUIPMENT WITH PROPER CONNECTION WHETHER FURNISHED BY THIS CONTRACTOR OR BY OTHERS. THIS CONTRACTOR SHALL PROVIDE FAUCETS, TRAPS, STRAINERS AND SUPPLIES.

3.02 WASTE, VENT & DRAINAGE:

- A. THE INTERIOR WASTE, VENT & DRAINAGE SYSTEMS SHALL BE CONSTRUCTED USING MATERIALS AND METHODS AS SPECIFIED AND/OR INDICATED.
- B. PROVIDE PROPERLY TRAPPED AND VENTED WASTE CONNECTION TO FIXTURES, FLOOR DRAINS, AND SPECIAL EQUIPMENT.
- C. DRAIN PIPING SHALL BE UNIFORMLY PITCHED TO CONFORM WITH STATE AND LOCAL PLUMBING CODE.
- D. TRAPS OF MATERIAL AND DESIGN APPROVED BY THE LATEST ADDITION OF THE APPLICABLE PLUMBING CODE SHALL BE FURNISHED & INSTALLED BY THE PLUMBING CONTRACTOR FOR ALL EQUIPMENT AND APPLIANCES. ALL TRAPS SHALL HAVE THE BOTTOM CLEANOUTS WHERE ACCESS CAN BE PROVIDED.
- E. CAREFULLY INSPECT FOR DAMAGED MATERIALS. RUN PIPING AS SHOWN ON THE DRAWINGS, MAKE CHANGES IN DIRECTION WITH LONG SWEEP 1/8 OR 1/16 BENDS. CONNECTIONS TO STACKS MAY BE WITH SANITARY T-FITTINGS.

3.03 STERILIZATION:

- A. THE POTABLE WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY FLUSH CLEANED, DISINFECTED AND TESTED AS PER THE STATE PLUMBING CODE.

3.04 COMPLETION:

- A. PROVIDE PROPERLY EXECUTED CERTIFICATE OF INSPECTION FROM THE LOCAL PLUMBING INSPECTORS OFFICE.
- B. VERIFY THAT PROJECT RECORD DOCUMENTS ARE COMPLETE AS SPECIFIED UNDER SUBMITTALS AND RECORD DOCUMENTS.

3.05 TESTING:

- A. ALL PLUMBING SYSTEMS LOCATED IN THE SCOPE OF THE PROJECT SHALL BE TESTED & REPAIRED BY THIS CONTRACTOR. TESTING OF ALL SYSTEMS SHALL BE DONE AT THE EXPENSE OF THE PLUMBING CONTRACTOR, AND WITH EQUIPMENT FURNISHED BY THEM. TESTING SHALL BE IN THE PRESENCE OF DULY AUTHORIZED INSPECTORS AND THE OWNER'S REPRESENTATIVE WITH 48-HOUR NOTICE GIVEN TO THESE AUTHORITIES. ALL SYSTEMS SHALL BE REPAIRED AND RETESTED UNTIL REQUIREMENTS ARE MET, WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- B. NEW WATER, WASTE & VENT PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH LOCAL PLUMBING INSPECTORS REQUIREMENTS AND AS PER THE STATE PLUMBING CODE.
- C. NEW SANITARY WASTE & VENT PIPING SHALL BE TESTED IN ACCORDANCE WITH LOCAL PLUMBING INSPECTORS REQUIREMENTS AND AS PER THE STATE PLUMBING CODE.

3.06 CUTTING AND PATCHING:

- A. PROVIDE ALL CUTTING AND PATCHING NECESSARY TO INSTALL THE WORK SPECIFIED IN THIS DIVISION. PATCHING SHALL MATCH ADJACENT SURFACES.
- B. SAW CUT, CHANNEL, CHASE, AND CORE-DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES NECESSARY FOR PLUMBING INSTALLATION. PERFORM CUTTING BY SKILLED MECHANICS OF THE TRADE INVOLVED. REPAIR CUT SURFACES TO MATCH ADJACENT SURFACES.
- C. FIRESTOP ALL PENETRATIONS BETWEEN FLOORS & FIRE RATED WALLS.
- D. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER, & ALL SUCH CUTTING SHALL BE ACCOMPLISHED IN A MANNER DIRECTED BY THE STRUCTURAL ENGINEER.
- G. THE CONTRACTOR SHALL ARRANGE AND CONDUCT OPERATING TESTS ON ALL EQUIPMENT IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE COMPONENT PARTS OF SYSTEMS AND THE VARIOUS SYSTEMS SHALL BE DEMONSTRATED TO OPERATE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THIS SPECIFICATION. ANY NON-COMPLYING OR DEFECTIVE MATERIALS OR WORKMANSHIP DISCLOSED AS A RESULT OF THE INSPECTION AND TESTS SHALL BE CORRECTED PROMPTLY BY THE CONTRACTOR, AND THE TESTS REPEATED AS OFTEN AS NECESSARY UNTIL APPROVED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

3.07 CLEANING AND TESTS:

- A. THE CONTRACTOR SHALL KEEP THE BUILDING AND SITE CLEAN FROM THEIR OWN RUBBISH AND/OR WASTE MATERIALS AND, UPON COMPLETION OF THEIR CONTRACT, SHALL LEAVE THE BUILDING, SITE AND INSTALLATION IN A CLEAN CONDITION COMPLETELY ACCEPTABLE TO THE OWNER'S REPRESENTATIVE.
- B. CLEAN AND TEST ALL NEW PLUMBING SYSTEMS, FIXTURES AND EQUIPMENT.
- C. IF ANY PART OF A SYSTEM SHOULD BE STOPPED BY ANY FOREIGN MATTER AFTER BEING PLACED IN OPERATION, CLEAN AND RE-ENERGIZE SYSTEM.

3.08 OPERATING AND MAINTENANCE INSTRUCTIONS:

- A. AFTER FINAL TESTS AND ADJUSTMENTS FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATIONS FOR EQUIPMENT INSTALLED. A SIGNED RECEIPT WHICH SHALL BE OBTAINED FROM THE OPERATOR SHALL BE CONSTRUED AS EVIDENCE THAT INSTRUCTIONS WERE SATISFACTORY.
- B. FURNISH THREE (3) COPIES OF WRITTEN DESCRIPTIONS OF ALL SYSTEMS COVERING ALL MANUAL OPERATING PROCEDURES, AUTOMATIC CONTROL DESCRIPTIONS AND AUTOMATIC TEMPERATURE & PRESSURE SETTINGS WRITTEN DESCRIPTIONS SHALL INCLUDE LUBRICATION SCHEDULES, PARTS LIST, PERFORMANCE SERVICES FOR EQUIPMENT, FILTER SIZE/QUANTITY SCHEDULE, ETC. WHEN MANUFACTURER STANDARD INSTRUCTIONS ARE UTILIZED, THEY SHALL BE CLEARLY MARKED AS TO INDICATED APPLICABILITY.
- C. AT THE END OF THE PROJECT, THE PLUMBING CONTRACTOR SHALL FURNISH THE FOLLOWING: APPROVED OPERATING INSTRUCTIONS FOR EACH PRINCIPAL ITEM OF EQUIPMENT FOR THE USE OF THE OPERATION AND MAINTENANCE PERSONNEL. THE OPERATING INSTRUCTIONS SHALL INCLUDE WIRING DIAGRAMS, CONTROL DIAGRAMS, AND CONTROL SEQUENCE FOR EACH PRINCIPAL ITEM OF EQUIPMENT. OPERATING INSTRUCTIONS SHALL BE PRINTED OR ENGRAVED, AND SHALL BE FRAMED UNDER GLASS OR IN AN APPROVED LAMINATED PLASTIC & POSTED WHERE DIRECTED BY ENGINEER. OPERATING INSTRUCTIONS SHALL BE ATTACHED TO OR POSTED ADJACENT TO EACH PRINCIPAL ITEM OF EQUIPMENT. INCLUDE START UP, PROPER ADJUSTMENT, OPERATING, LUBRICATION, SHUT-DOWN, SAFETY-PRECAUTIONS, PROCEDURE IN THE EVENT OF EQUIPMENT FAILURE, AND OTHER ITEMS OF EQUIPMENT. OPERATING INSTRUCTIONS EXPOSED TO THE WEATHER SHALL BE WEATHER PROTECTED. OPERATING INSTRUCTIONS SHALL NOT FADE WHEN EXPOSED TO SUNLIGHT & SHALL BE SECURED TO PREVENT REMOVAL OR PEELING.
- D. PROVIDE VALVE TAGS & CHARTS.

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PROJECT NO. 25114

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REVISIONS

NO.	DESCRIPTION	DATE

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BID

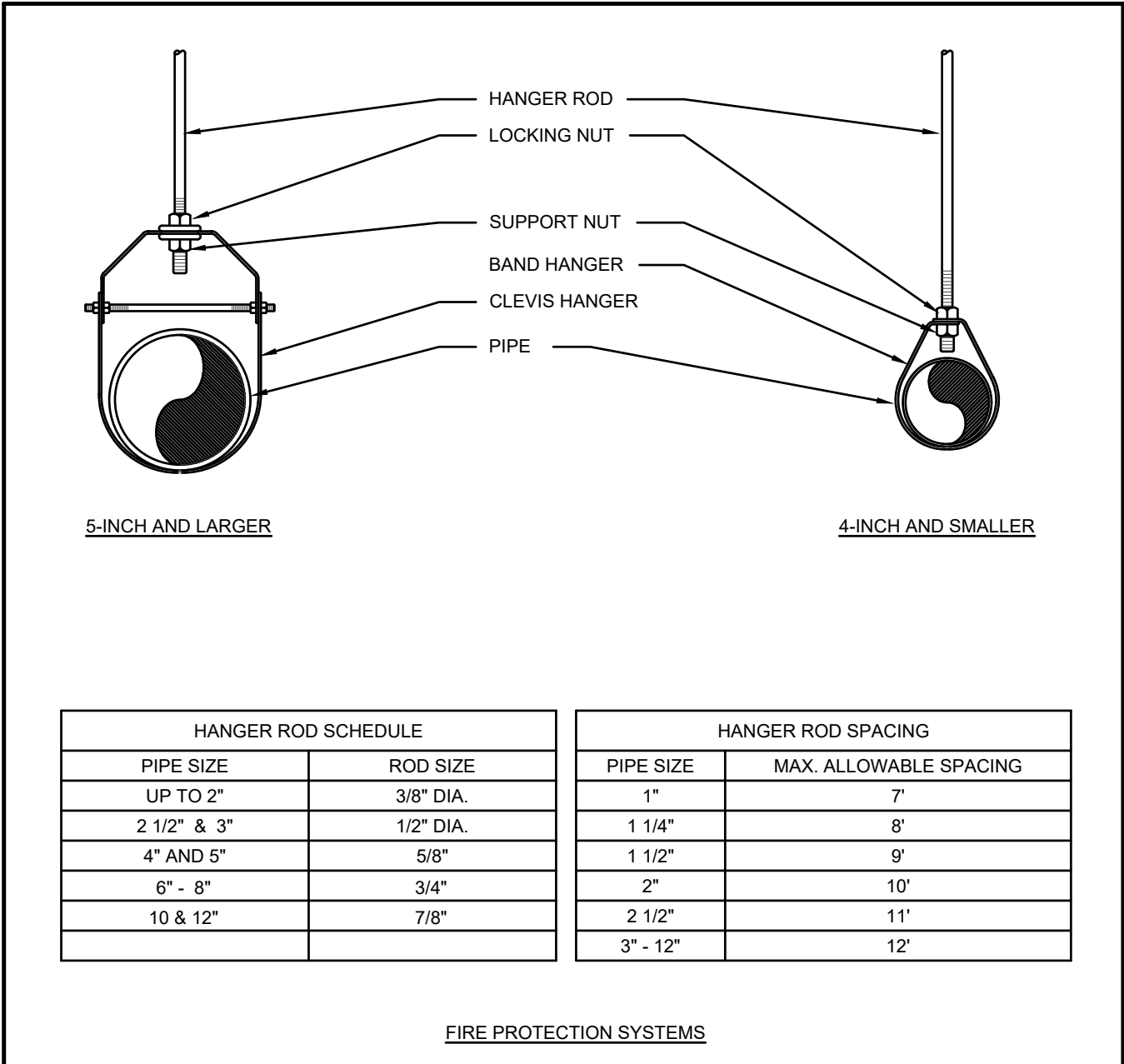
ISSUED DATE: JULY 1, 2026

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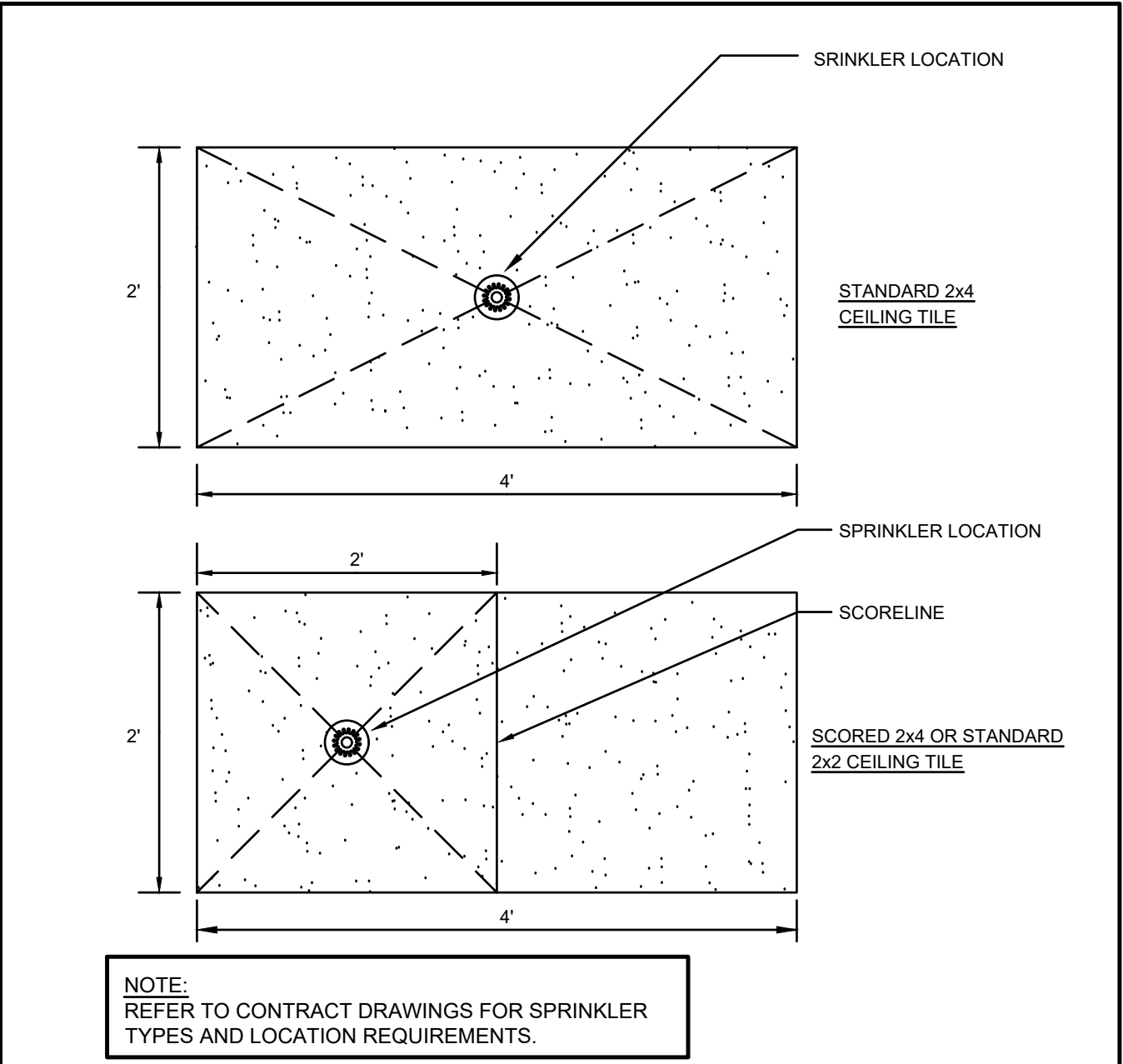
PLUMBING
SPECIFICATIONS

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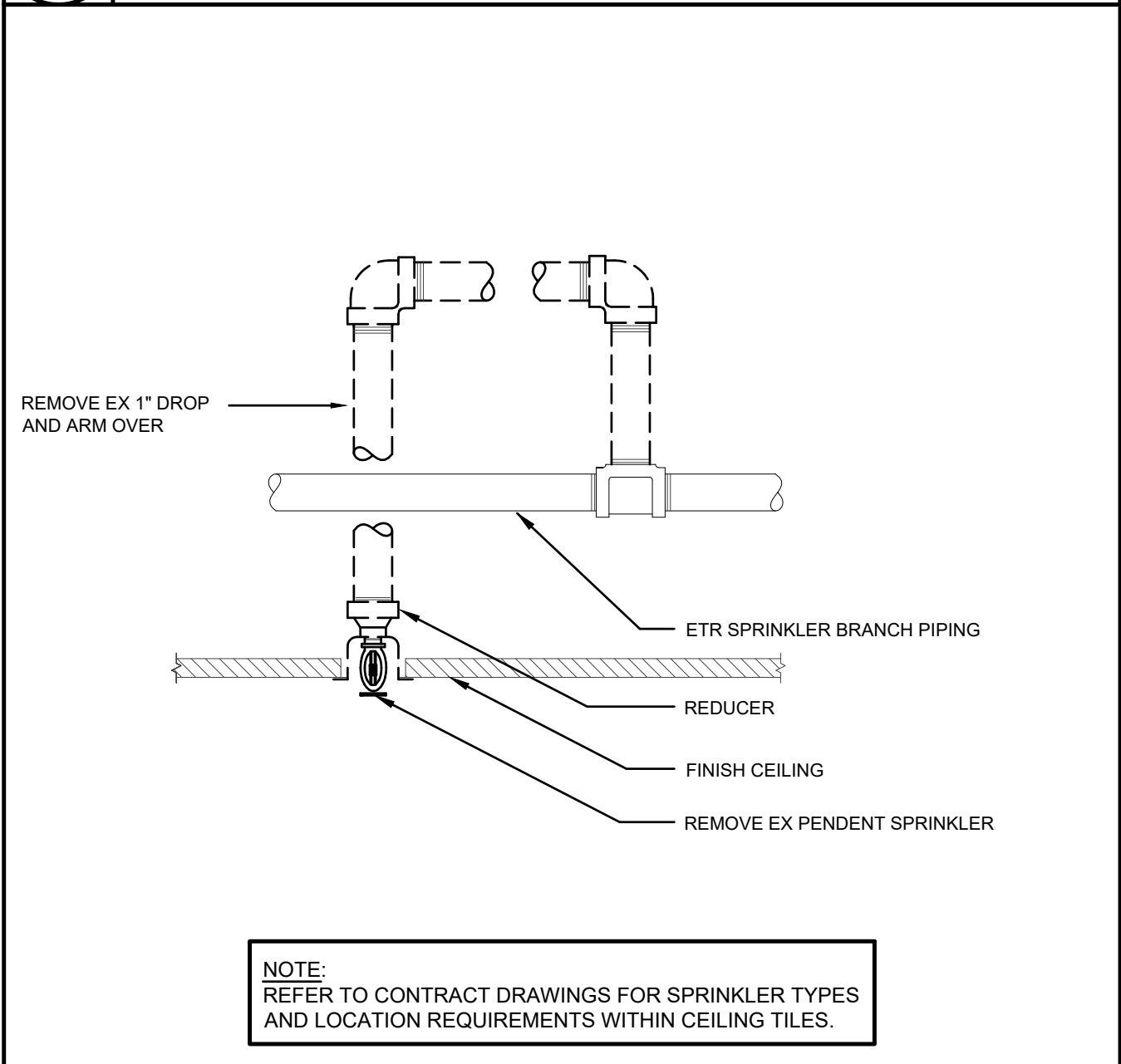


FIRE PROTECTION SYSTEMS

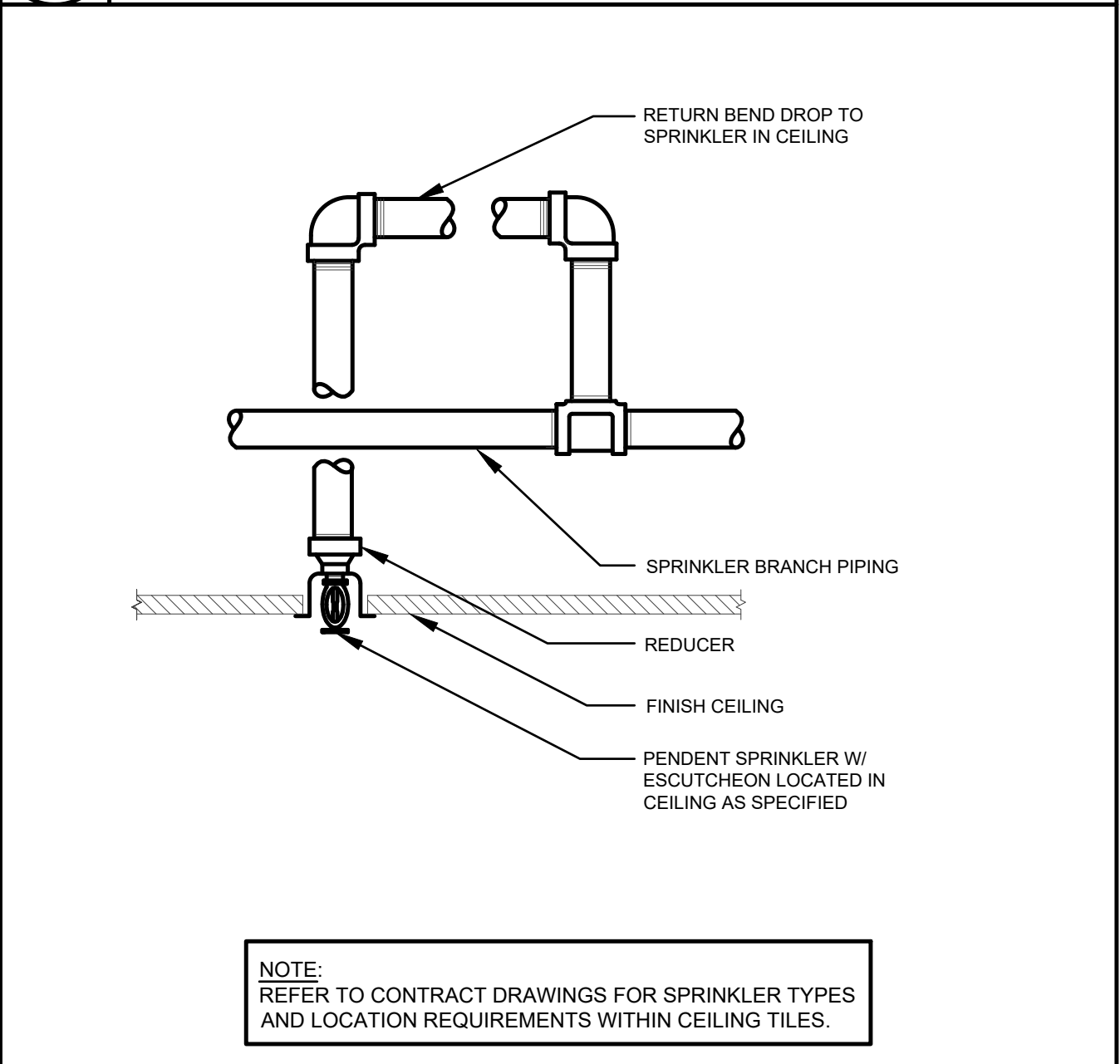


1 TYPICAL PIPE HANGER DIAGRAM NTS

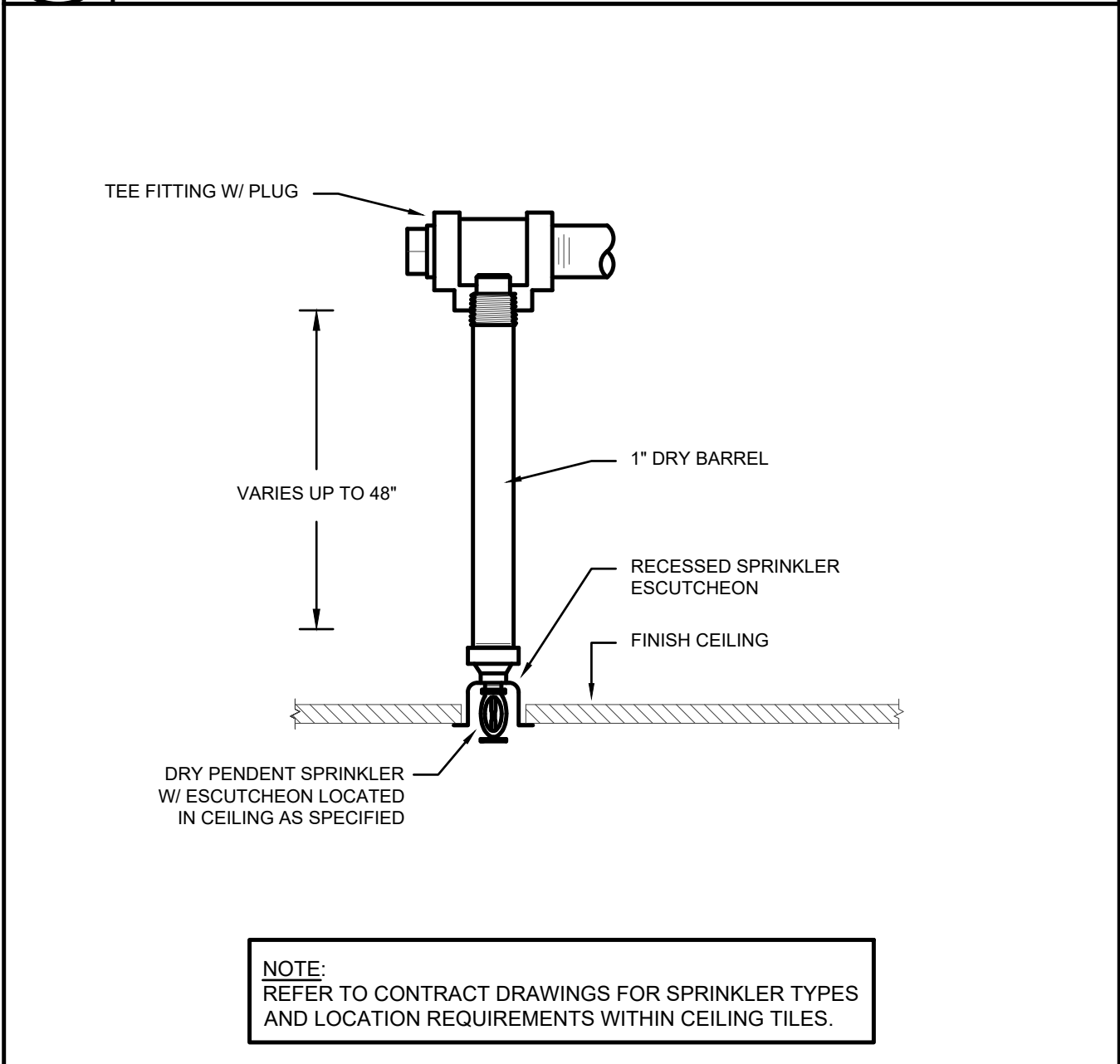
2 SPRINKLER LOCATION IN CEILING TILES NTS



3 PENDENT SPRINKLER DEMOLITION DIAGRAM NTS



4 RECESSED SPRINKLER RETURN BEND DROP NTS



5 DRY PENDENT SPRINKLER DIAGRAM NTS

FIRE PROTECTION DEMOLITION NOTES:

1. PRIOR TO SUBMITTING DEMOLITION BID, THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO DETERMINE THE EXTENT OF WORK TO MODIFY THE EXISTING SPRINKLER SYSTEM AS INDICATED IN THE AREA OF WORK. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE FIRE PROTECTION DEMOLITION CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
2. DISCONNECT, DISMANTLE AND DEMOLISH EXISTING SPRINKLERS, BRANCH PIPING AND ACCESSORIES IN AREA OF WORK AS REQUIRED. REMOVE ALL DEBRIS AND DISCONNECTED EQUIPMENT AND CLEAN OUT EXISTING SPACES. EXISTING SPRINKLERS SYSTEM TO REMAIN IN OCCUPIED FLOORS AND EXISTING STAIRWELLS. REFER TO ARCHITECTURAL AND FIRE PROTECTION DEMOLITION PLANS FOR DEMOLITION WORK.
3. REMOVE ALL EXISTING SPRINKLER SYSTEM SUPPLY PIPING, SPRINKLERS, ACCESSORIES INDICATED TO BE DEMOLISHED AND CAP BACK TO EXISTING MAIN LINES TO REMAIN. OBTAIN EXISTING RECORD DRAWINGS FROM OWNER. MAINTAIN EXISTING SPRINKLER SYSTEMS, STANDPIPE RISERS AND HOSE VALVES IN EACH FLOOR LEVEL TO REMAIN.
4. VERIFY PIPING SERVES ONLY SPRINKLER SYSTEMS INDICATED FOR DEMOLITION BEFORE SHUT-DOWN FOR DISCONNECTION. IDENTIFY EXISTING PIPING WHICH SERVES SPRINKLER SYSTEMS TO REMAIN DURING PHASING. PROMPTLY NOTIFY ARCHITECT/ENGINEER & GENERAL CONTRACTOR OF ACTIVE PIPING TO BE MAINTAINED WHEN LOCATED IN PARTITIONS TO BE DEMOLISHED.
5. COORDINATE ALL SHUT-DOWNS, TIE-INS, ETC., WITH THE GENERAL CONTRACTOR. ELECTRICAL MAKE-SAFE OF SPRINKLER SYSTEM EQUIPMENT REQUIRING DEMOLITION SHALL BE COMPLETED BY THE ELECTRICAL SUBCONTRACTOR.
6. DEMOLITION SUBCONTRACTOR MUST PROTECT EXISTING SLAB, WALL, FENCING AND BUILDING STRUCTURE DURING DEMOLITION PHASE. DAMAGE TO EXISTING STRUCTURE SHALL BE REPAIRED AT DEMOLITION SUBCONTRACTOR'S EXPENSE.
7. ALL DEMOLITION WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES.

FIRE PROTECTION GENERAL NOTES:

1. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT. AS SHOWN ON DRAWING, PLUS AS REQUIRED BY NFPA-13 AS REFERENCED IN THE STATE & LOCAL BUILDING & FIRE CODES AND THE AUTHORITY HAVING JURISDICTION.
2. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE FIRE PROTECTION SUBCONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE & LOCAL BUILDING & FIRE CODES.
3. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK INCLUDING ALL FEES OR EXPENSES INCURRED.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EACH AND EVERY OFFSET WITH REGARD TO THE PIPING THAT IS TO BE INSTALLED. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL DRAWINGS, AND MAKE DETAILED NOTES OF ALL NECESSARY OFFSETS REQUIRED WITH THE INSTALLATION OF THEIR WORK. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE AND PROJECT CONDITIONS.
5. UNLESS OTHERWISE NOTED, IT IS THE INTENT OF THESE DOCUMENTS THAT THIS AREA SHALL BE 100% SPRINKLERED.
6. ALL SPRINKLERS PROTECTING LIGHT HAZARD AREAS SHALL BE QUICK RESPONSE.
7. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS AND HYDRAULIC CALCULATIONS WHICH SHALL BEAR THE SEAL OF A FIRE PROTECTION ENGINEER DULY LICENSED IN THE STATE WHERE WORK IS PERFORMED.
8. THE SPRINKLER CONTRACTOR SHALL PERFORM A HYDRANT FLOW TEST AND SHALL BASE THEIR HYDRAULIC CALCULATIONS ON THEIR TEST RESULTS.
9. THE SPRINKLER CONTRACTOR SHALL PREPARE THEIR OWN FABRICATION/WORKING DRAWINGS OF THE SPRINKLER WORK AND OBTAIN APPROVALS FROM AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION, AND SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL.
10. SPRINKLERS SHALL BE LOCATED ABOVE AND BELOW ALL DUCTWORK GREATER THAN 4'-0" WIDE.
11. ROUTING OF SPRINKLER MAINS, BRANCHES AND SPRINKLERS SHALL BE THOROUGHLY COORDINATED WITH OTHER TRADES AND BUILDING STRUCTURE PRIOR TO SUBMISSION OF COORDINATED SHOP DRAWINGS. FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR COORDINATING, PREPARING, AND SUBMITTING COORDINATION DRAWINGS FOR APPROVAL.
12. ALL SLEEVES THROUGH CONCRETE FLOORS AND FIRE RATED WALLS OR PARTITIONS SHALL BE FIRE STOPPED WITH UL RATED ASSEMBLIES OF EQUAL FIRE RATING.
13. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, STORAGE AND CUTTING OF ANY CEILING TILES TO ACCOMMODATE SPRINKLERS. THEY SHALL ALSO REINSTALL THE CEILING TILES AND REPLACE ANY DAMAGED TILES.
14. PATCH PIPE CORES WHERE FIRE PROTECTION PIPING HAS BEEN INSTALLED. PAINT PATCH WORK TO MATCH SURFACES.
15. CONTRACTOR IS TO CLEAN/FLUSH ENTIRE SYSTEM BACK TO THE STREET WATER MAIN.
16. AT THE COMPLETION, TEST ENTIRE SYSTEM PER NFPA-13 AND NFPA-25. FILE ALL REPORTS AND CERTIFICATIONS. SUBMIT TO OWNER COPIES OF ALL REPORTS AND CERTIFICATIONS, TOGETHER WITH A COPY OF NFPA-25.
17. INSTRUCT THE OWNER ON MAINTENANCE PROCEDURES AND SYSTEM OPERATION.
18. SUBMIT ACCURATE AS-BUILT DRAWINGS.
19. PROVIDE PROPER SEISMIC RESTRAINTS FOR ALL REQUIRED FIRE PROTECTION PIPING PER NFPA AND LOCAL BUILDING CODES.
20. PRESSURE TEST ALL PIPING AND ALARMS PER NFPA.
21. WHERE ALL SPRINKLER PIPING IS EXPOSED, COORDINATE PAINTING PIPING AND SPRINKLERS WITH ARCHITECT/ENGINEER. SPRINKLERS SHALL BE FACTORY PAINTED AND NOT FIELD PAINTED.
22. INSTALL ALL PENDENT SPRINKLERS LOCATED ON SUSPENDED CEILINGS ON CENTER OF CEILING TILES BOTH WAYS. IF SPRINKLERS ARE LOCATED IN GYPSUM CEILINGS, INSTALL AND ALIGN HORIZONTALLY AND VERTICALLY WITH LIGHT FIXTURES AS MUCH AS POSSIBLE SPACING REQUIREMENTS ALLOW.
23. REFER TO ARCHITECTURAL PLANS FOR ESCUTCHEON PLATE FINISH.

FIRE PROTECTION LEGEND

	NEW WORK PIPING (INDICATED AS HEAVY LINE)
	EXISTING TO REMAIN (INDICATED AS LIGHT LINE)
	EXISTING PIPING / EQUIPMENT TO BE REMOVED
	CONNECT TO EXISTING
	FIRE SERVICE BELOW GRADE OR BURIED
	WET SPRINKLER PIPE
	SPRINKLER DRAIN
	FIRE DEPARTMENT CONNECTION PIPE
	PIPE TEE LOOKING UP
	PIPE TEE LOOKING DOWN
	PIPE RISER
	PIPE ELBOW DOWN OR DROP
	CONTINUATION
	FLOW IN DIRECTION OF ARROW
	UNION
	FLOW SWITCH
	CHECK VALVE
	OS&Y GATE VALVE
	VALVE IN VERTICAL
	ALARM CHECK VALVE (WET SYSTEM)
	HORIZONTAL DOUBLE CHECK VALVE ASSEMBLY
	WATER TIGHT SLEEVE
	DRAIN VALVE WITH HOSE END
	FIRE DEPARTMENT VALVE
	UPRIGHT WET SPRINKLER
	CONCEALED WET SPRINKLER
	TYPICAL
	VERIFY EXACT LOCATION, SIZE & CONNECTION IN FIELD
	ABOVE FINISHED FLOOR
	FINISHED FLOOR ELEVATION
	ABOVE FINISHED GRADE
	LIMIT OF FIRE PROTECTION CONTRACT
	NOT IN FIRE PROTECTION CONTRACT
	GENERAL CONTRACTOR
	FIRE PROTECTION CONTRACTOR
	PLUMBING CONTRACTOR
	ELECTRICAL CONTRACTOR
	HVAC CONTRACTOR

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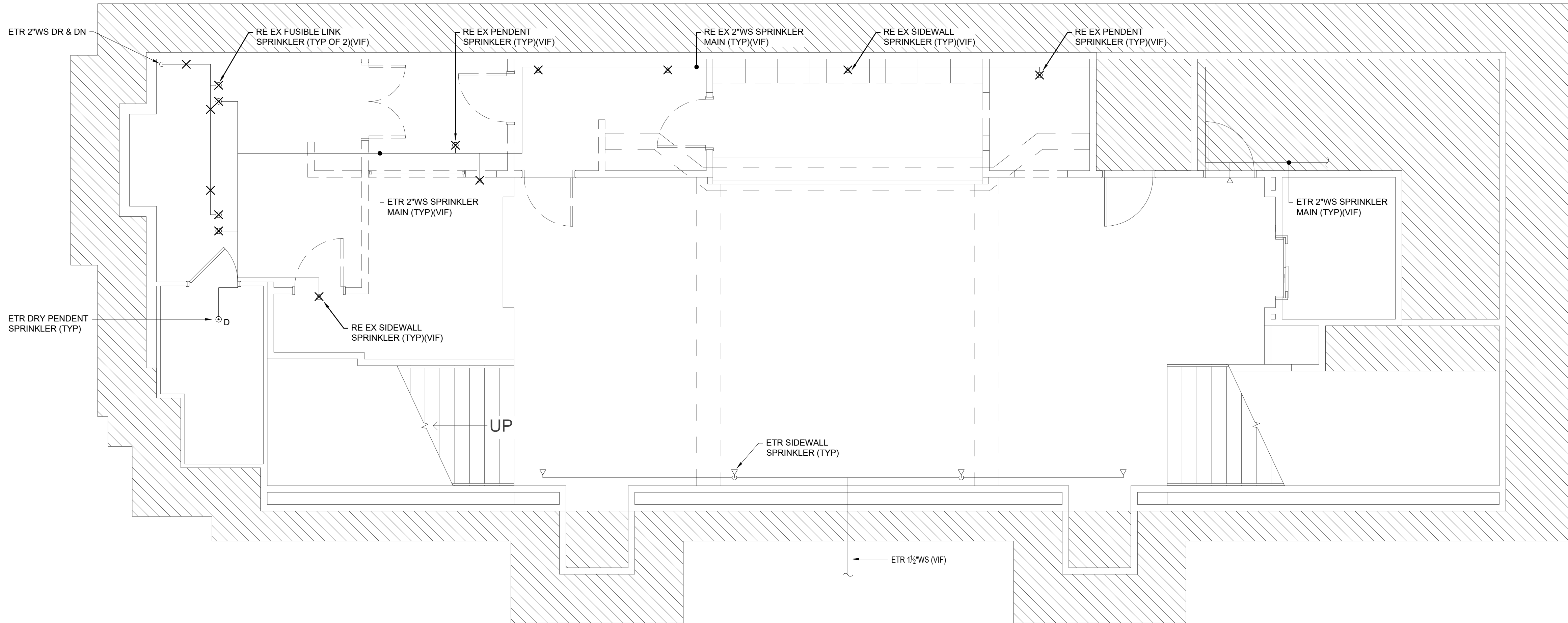
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SHEET TITLE
FIRE PROTECTION LEGEND, NOTES, & DETAILS

DRAWING NO.

FP0.1

BER #:26037



① DEMO FLOOR PLAN - FIRE PROTECTION
1/4" = 1'-0"

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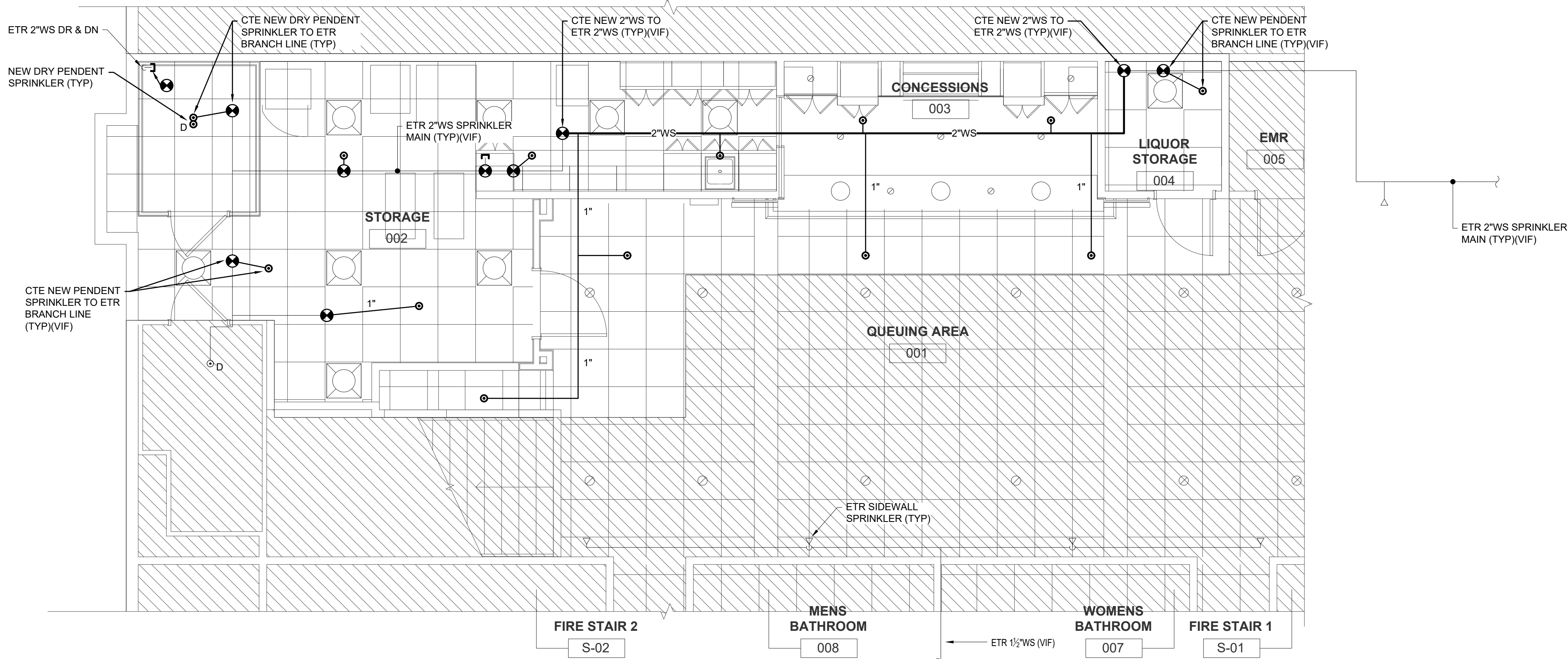
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ISSUED DATE: JULY 1, 2026

SHEET TITLE
FIRE PROTECTION DEMO FLOOR PLAN

DRAWING NO.
FP1.0

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1 PROPOSED FLOOR PLAN - FIRE PROTECTION
1/4" = 1'-0"

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BID

ISSUED DATE: JULY 1, 2026

SHEET TITLE
FIRE PROTECTION
PROPOSED FLOOR
PLAN

DRAWING NO.
FP2.0

FIRE PROTECTION SPECIFICATIONS

PART I GENERAL

1.01 GENERAL REQUIREMENTS:

- A. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE FIRE PROTECTION SYSTEMS, APPARATUS AND EQUIPMENT FOR THE SCOPE OF WORK INDICATED ON THE CONTRACT DOCUMENTS.
- B. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A CONTRACT PRICE FOR THE MATERIAL AND LABOR PROVISIONS.
- C. WHEN CONFLICTS OCCUR IN THE SPECIFICATIONS OR ON THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.
- D. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.
- E. THE CONTRACTOR SHALL COORDINATE THEIR WORK OR ADJUST SAME TO THAT OF OTHER TRADES, IN ORDER THAT CONFLICTS IN SPACE LOCATIONS DO NOT OCCUR.
- F. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.
- G. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY ITEMS WITH SAME, WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COST TO THE OWNER.

1.02 WORK INCLUDED:

- A. THE INTENTION OF THE SPECIFICATIONS AND PLANS IS TO PROVIDE FOR FURNISHED SYSTEMS, PROPERLY TESTED, BALANCED AND READY FOR OPERATION, INCLUDING NECESSARY MINOR DETAILS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE, EVEN THOUGH SUCH ITEMS MAY NOT BE EXPRESSLY SHOWN OR SPECIFIED.
- B. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATION INCLUDES THE FURNISHING OF ALL LABOR AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE FIRE PROTECTION WORK SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN AND SHALL BE INTERPRETED AS WORK TO BE DONE BY THIS CONTRACTOR. WORK TO BE PERFORMED BY OTHER TRADES WILL ALWAYS BE SPECIFICALLY REFERENCED TO A PARTICULAR CONTRACTOR AND/OR SECTION.
- C. CONTRACTOR, PRIOR TO SUBMITTING BID SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO INSPECT THAT ALL PROVISIONS HAVE BEEN MADE FOR ALL ASPECTS OF THIS PROJECT. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
- D. WITHOUT LIMITING GENERALITY, PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT FOR A COMPLETE SPRINKLER SYSTEM AS DESCRIBED BELOW.
1. WET SPRINKLER SYSTEM PIPING INCLUDING SHOP DRAWINGS.
2. SPRINKLERS, NIPPLES AND BRANCH PIPING.
3. CORING, SLEEVEING, FIRESTOPPING, CUTTING, AND PATCHING.
4. HANGERS, SUPPORTS, ACCESS DOORS.
5. SEISMIC BRACING, DRAWINGS & CALCULATIONS.
6. VALVE IDENTIFICATION SIGNS & HYDRAULIC DESIGN NAMEPLATES.
7. FLUSHING, INSPECTIONS & TESTING.
8. PERMITS AND FEES.
9. PAINTING OF EXPOSED PIPE - (COORDINATE W/ ARCHITECTURAL DOCUMENTS).
10. HYDRANT FLOW TEST ACCORDING TO NFPA 291.
11. HYDRAULIC CALCULATIONS.
12. FLOW AND TAMPER SWITCHES.
13. INSPECTOR'S TEST STATIONS.

1.03 REGULATORY REQUIREMENTS, CODES, ORDINANCES AND PERMITS

- A. ALL FIRE PROTECTION WORK SHALL BE PERFORMED BY A STATE LICENSED CONTRACTOR IN STRICT ACCORDANCE WITH AUTHORITY HAVING JURISDICTION (AHJ), STATE & LOCAL CODES, LAWS AND ORDINANCES.
- B. ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENTS OF THE STATE BUILDING CODES NFPA STANDARD 1, 13 & 101, STATE & LOCAL CODES, BUILDINGS INSURANCE COMPANY, AND AUTHORITIES HAVING JURISDICTION OVER THE WORK OF THIS PROJECT. WHERE CODE REFERENCES ARE GIVEN, THE LATEST ISSUE OF THAT CODE IN EFFECT AT THE TIME OF BIDDING SHALL BE USED.
- C. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND FILING ALL PLANS, SPECIFICATIONS AND OTHER DOCUMENTS, PAY ALL REQUISITE FEES AND SECURE ALL PERMITS, INSPECTIONS AND APPROVALS NECESSARY FOR THE LEGAL INSTALLATION AND OPERATION OF THE SYSTEM AND/OR EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.
- D. THIS CONTRACTOR SHALL FRAME UNDER GLASS ALL PERMITS, SECURED BY THEM, ADJACENT TO THE RESPECTIVE SYSTEM AND/OR EQUIPMENT AND REQUIRED TO BE DISPLAYED BY CODE, LAW AND ORDINANCE. THOSE PERMITS SECURED BUT NOT REQUIRED TO BE DISPLAYED SHALL BE INCLUDED IN THE OWNER'S MAINTENANCE MANUAL.

1.04 SUBMITTALS:

- A. PROVIDE SHOP DRAWINGS FOR ALL FIXTURES AND EQUIPMENT FOR ALL WORK PROVIDED UNDER THIS CONTRACT TO THE ARCHITECT/ENGINEER FOR THEIR REVIEW AND APPROVAL PRIOR TO ORDERING, FABRICATING OR INSTALLING.

1.05 COORDINATION:

- A. WORK SHALL BE PERFORMED IN COOPERATION WITH OTHER TRADES ON THE PROJECT AND SO SCHEDULED AS TO ALLOW EFFICIENT COMPLETION OF THE WORK.
- B. FURNISH TO OTHER TRADES ADVANCE INFORMATION ON LOCATIONS AND SIZES OF ALL FRAMES, BOXES, SLEEVES AND OPENINGS NEEDED FOR THEIR WORK, AND ALSO FURNISH INFORMATION AND SHOP DRAWINGS NECESSARY TO PERMIT TRADES AFFECTED BY THE WORK TO INSTALL SAME PROPERLY AND WITHOUT DELAY.
- C. IF ANY FIRE PROTECTION WORK HAS BEEN INSTALLED BEFORE COORDINATION WITH OTHER TRADES SO AS TO CAUSE INTERFERENCE WITH THE WORK OF SUCH TRADES, ALL NECESSARY ADJUSTMENTS AND CORRECTIONS SHALL BE MADE BY THE FIRE PROTECTION TRADES INVOLVED WITHOUT EXTRA COST TO THE OWNER.
- D. PROTECT ALL MATERIALS AND WORK OF OTHER TRADES FROM DAMAGE WHICH MAY BE CAUSED BY THE FIRE PROTECTION WORK, AND REPAIR ALL DAMAGES WITHOUT EXTRA COST TO THE OWNERS.
- E. THIS CONTRACTOR, PRIOR TO SUBMITTING BID SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO INSPECT THAT ALL PROVISIONS HAVE BEEN MADE FOR ALL ASPECTS OF THIS PROJECT. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED.
- F. FIRE PROTECTION EQUIPMENT AND SUCH OTHER APPARATUS AS MAY REQUIRE MAINTENANCE AND OPERATION FROM THE TIME SHOWN TO BE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE. IN SUCH CASES, THE OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED BEFORE ADVANCING THE CONSTRUCTION TO A STAGE WHERE A CHANGE WILL REFLECT ADDITIONAL EXPENSE.
- G. IT SHALL BE THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE OF EQUIPMENT.
- H. FIRE PROTECTION WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EQUIPMENT, DUCTS OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. FIRE PROTECTION CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.
- I. THIS CONTRACTOR SHALL OBTAIN DETAILED PRINTED INFORMATION FROM THE MANUFACTURER OF EQUIPMENT WHICH THEY ARE TO PROVIDE FOR THE PROPER METHODS OF INSTALLATION. THEY SHALL ALSO OBTAIN ALL INFORMATION FROM THE GENERAL CONTRACTOR AND OTHER CONTRACTORS WHICH MAY BE NECESSARY TO FACILITATE THEIR WORK AND THE COMPLETION OF THE WHOLE PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

- A. THE WORK TO BE ACCOMPLISHED UNDER THIS SECTION INCLUDES WORK WITHIN EXISTING AREAS ADJACENT TO THE SITE OF NEW CONSTRUCTION. CONTINUITY OF SERVICES WITHIN EXISTING AREAS SHALL BE MAINTAINED. ANY INTERRUPTION OF SERVICES NECESSARY TO ACCOMPLISH THE WORK SHALL BE MADE ONLY WITH THE CONSENT OF THE GENERAL CONTRACTOR AND AT SUCH TIME(S) AS THE OWNER DESIGNATES.
- B. THIS CONTRACTOR SHALL NOT UNNECESSARILY DISTURB OR INTERFERE WITH THE OWNER'S USE OF THE FACILITIES ASSOCIATED WITH OR ADJACENT TO THIS CONTRACT. WHEN INTERFERENCE IS NECESSARY, PERMISSION SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR BEFORE ANY OPERATION OR SERVICE LINE IS DISTURBED OR DISCONNECTED.
- C. THIS CONTRACTOR SHALL INCLUDE UNDER COORDINATION WORK THE INSTALLATION OF ALL SYSTEMS IN CONFORMANCE WITH GOVERNING CODES. THIS CONTRACTOR IS ADVISED THAT NO PIPING OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH SUCH SPACES OR ROOMS PROVIDED FOR SWITCHBOARDS AND PANELBOARDS IN ACCORDANCE WITH ARTICLE 384 OF THE NATIONAL ELECTRICAL CODE.
- 1.06 INSTALLATION REQUIREMENTS:
- A. THE ARRANGEMENT OF ALL FIRE PROTECTION WORK SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE MINIMUM REQUIREMENTS OF THE WORK. CONDITIONS AT THE BUILDING INCLUDING ACTUAL MEASUREMENTS SHALL DETERMINE THE DETAILS OF THE INSTALLATION.
- B. INSTALL ALL MATERIALS, ACCESSORIES AND EQUIPMENT ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
- C. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR FIRE PROTECTION EQUIPMENT INSTALLATION SHALL BE PROVIDED BY FIRE PROTECTION CONTRACTOR. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.
- D. CONTRACTOR SHALL DRAIN SYSTEM AS REQUIRED TO PERFORM NEW WORK AND CONNECTIONS. ONCE WORK IS COMPLETE THE CONTRACTOR SHALL FLUSH, FILL, TEST AND BALANCE ALL SYSTEMS.
- 1.07 RECORD DRAWINGS
- A. PROVIDE RECORD AS-BUILT DRAWINGS. THE CONTRACTOR SHALL KEEP DAILY UPDATED ACCURATE RECORDS OF ALL DEVIATIONS IN WORK AS ACTUALLY INSTALLED FROM WORK INDICATED ON THE CONTRACT DRAWINGS. WHEN WORK IS COMPLETED THIS CONTRACTOR SHALL PROVIDE TO THE OWNER ONE COMPLETE SET OF MARKED-UP ORIGINAL PRINTS, UPDATED CAD DRAWINGS AND A CD WITH CAD FILES.
- 1.08 GUARANTEE/WARRANTY
- A. ALL NEW MATERIALS, ITEMS OR EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CARRY STANDARD WARRANTY AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF WORK. ANY FAULT DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR MANUFACTURING DESIGN WHICH MAY DEVELOP WITHIN THAT PERIOD SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THIS CONTRACTOR, INCLUDING ALL OTHER DAMAGES DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE.
- B. THIS CONTRACTOR SHALL GUARANTEE THAT ALL NEW ELEMENTS OF THE SYSTEMS MEET THE SPECIFIED PERFORMANCE REQUIREMENTS AS SET FORTH HEREIN OR AS INDICATED ON THE DRAWINGS.
- C. CERTIFICATION SHALL BE SUBMITTED BY THE CONTRACTOR ATTESTING TO THE FACT THAT SPECIFIED PERFORMANCE CRITERIA ARE MET BY NEW SYSTEM.
- 1.09 APPROVALS AND SUBSTITUTIONS:
- A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHEREVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE ALLOWED, THEY SHALL CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM CRITERIA AS DELINEATED. SPECIFIED EQUIPMENT SHALL BE INTERPRETED AS MINIMUM PERFORMANCE REQUIREMENTS.
- H. SUBSTITUTED EQUIPMENT WHERE PERMITTED MUST CONFORM TO SPACE REQUIREMENTS. ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY MODIFICATION OF RESISTANCE SYSTEMS OR ADDITIONAL COSTS THAT RESULT FROM SUBSTITUTED EQUIPMENT SHALL BE BORNE BY THIS CONTRACTOR.

PART II PRODUCTS

2.01 SPRINKLER SYSTEM PIPING, SPRINKLERS & ACCESSORIES:

- A. ABOVE GROUND PIPING WHERE MAKING CONNECTIONS TO FLANGED VALVES AND TO UNDERGROUND ENTRANCE: SCHEDULE 40 BLACK STEEL PIPE, BLACK CAST IRON SCREWED COMPANION FLANGES AND FLANGED CAST IRON FITTINGS, ALL SUITABLE FOR 175 PSI WORKING WATER PRESSURE.
- B. ABOVE GROUND WET SPRINKLER AND STANDPIPE PIPING: SCHEDULE 40 FOR 1/2" OR SMALLER, SCHEDULE 10 FOR 2" OR LARGER, BLACK STEEL ASTM A795, SEAMLESS FERROUS PIPE U.L. LISTED FOR FIRE PROTECTION SYSTEMS AND FULL F.M. APPROVAL. PIPING SHALL BE STAMPED WITH MANUFACTURERS NAME, U.L. AND F.M. APPROVAL. FITTINGS SHALL BE U.L. LISTED/F.M. APPROVED. CAST IRON ANSI B16.4, ANSI B16.1 OR MALLEABLE IRON ANSI B16.3. PIPE THROUGH EXTERIOR WALLS AND DRAIN PIPE SHALL BE GALVANIZED STEEL.
- C. FITTINGS, COUPLINGS, UNION AND REDUCERS SHALL HAVE A WORKING PRESSURE OF NOT LESS THAN 175 PSIG AND U.L. LISTED FOR FIRE PROTECTION SYSTEMS. GROOVED END FITTINGS AND COUPLINGS SHALL BE COMPATIBLE FROM THE SAME MANUFACTURER. GASKETS SHALL BE EPDM STANDARD GASKET STYLE.
- D. ABOVE GROUND DRY SPRINKLER SYSTEM STEEL PIPING AND FITTINGS SHALL BE GALVANIZED INSIDE AND OUT TO ASTM A795 REQUIREMENTS.
- E. PROVIDE U.L. LISTED & FM APPROVED QUICK RESPONSE SPRINKLERS. SPRINKLERS SHALL BE GLASS BULB TYPE AND HAVE 1/2" ORIFICE. UPRIGHT SPRINKLERS SHALL HAVE BRASS PLATED FINISH, UPRIGHT, PENDENT AND SIDEWALL SPRINKLER TYPES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS. PROVIDE EXTENDED COVERAGE TYPE SPRINKLERS WHERE INDICATED IN THE CONTRACT DRAWINGS. PROVIDE U.L. LISTED & FM APPROVED DRY TYPE SPRINKLERS FOR DRY SYSTEM AND IN AREAS SUBJECT TO FREEZING. ALL COVER PLATES FOR CONCEALED SPRINKLERS INSTALLED IN ACT AND GYP CEILINGS SHALL BE WHITE FINISH. ALL COVER PLATES FOR CONCEALED PENDENTS INSTALLED IN SOLID WOOD CEILINGS SHALL BE SATIN CHROME FINISH. SPRINKLERS SHALL BE MANUFACTURED BY RELIABLE, TYCO, VICTAULIC OR VIKING.
- F. SPRINKLERS SHALL BE ORDINARY TEMPERATURE CLASSIFICATION WITH A TEMPERATURE RATING OF 155°F, EXCEPT IN AREAS SUBJECT TO ABNORMAL HEATING CONDITIONS. SPRINKLERS IN MECHANICAL & ELECTRIC ROOMS AND SPRINKLERS NEAR UNIT HEATERS SHALL HAVE A TEMPERATURE RATING OF 200°F.
- G. SPRINKLERS, IN GENERAL, SHALL BE AUTOMATIC CLOSED TYPE WITH TEMPERATURE RATINGS TO SUIT INSTALLED CONDITIONS. SPRINKLERS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILES. WHEN THE CEILING TILE IS DIVIDED INTO SECTIONS BY GROOVED DEPRESSIONS, THE SPRINKLER SHALL BE LOCATED IN THE CENTER OF ONE OF THE PANELS.
- H. SPARE SPRINKLERS, CABINET AND WRENCH SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
- M. HANGERS SHALL BE CARPENTER & PATTERSON, GRINNELL CLEVIS TYPE HEAVY DUTY STEEL AND HANGER RODS WITH MACHINE THREADS. SPACING AND SIZE OF RODS SHALL BE ACCORDING TO NFPA 13. INSTALL DOUBLE LOCK NUTS. HANGERS AND RODS SHALL BE GALVANIZED WHERE EXPOSED TO WEATHER OR HUMID ENVIRONMENTS.
- N. PROVIDE SEISMIC BRACING DESIGNED TO WITHSTAND TENSION AND COMPRESSION ON SPRINKLER & STANDPIPE SYSTEMS. ACCEPTABLE MANUFACTURER SHALL BE TOLCO INC., OR APPROVED EQUAL. WHERE PRESSURES EXCEED 100 PSI, ABIDE BY NFPA 13.

2.02 VALVES & ACCESSORIES:

- A. ALL VALVES SHALL BE U.L. LISTED & FM APPROVED AND STAMPED OR MARKED WITH MANUFACTURER'S NAME. VALVES SHALL BE INSTALLED WITH A 175 PSI PRESSURE RATING.
- B. GATE VALVES 2 INCHES OR SMALLER SHALL BE BRONZE, WITH RISING STEM & SCREWED ENDS. GATE VALVES OVER 2 INCHES SHALL BE BRONZE MOUNTED, RESILIENT SEAT, IRON BODY, OUTSIDE SCREW & YOKE TYPE, FLANGED. GATE VALVES SHALL BE ABLE TO ACCOMMODATE A MONITOR SWITCH.
- C. CHECK VALVES SHALL BE IRON BODY, BRONZE MOUNTED, SWING TYPE, WITH FLANGED ENDS ON PIPING OVER 2 INCHES. CHECK VALVES SHALL BE ALL BRONZE WITH SCREWED ENDS ON PIPING UNDER 2 INCHES. THE CHECK VALVE AT THE FIRE PUMP DISCHARGE SHALL BE GEM MODEL F512 WATER CHECK VALVE WITH CLASS 250 LB FLANGE.
- D. BUTTERFLY VALVES SHALL BE EQUIPPED WITH A TAMPER SWITCH WITH TWO SETS OF CONTACTS.
- E. DOUBLE CHECK VALVE ASSEMBLIES: U.L. LISTED AND FM APPROVED, DESIGN FOR HORIZONTAL AND VERTICAL INSTALLATION, ASTM A-536 EPOXY-COATED DUCTILE IRON BODY, STAINLESS STEEL, NORTYL OR BRONZE INTERNAL CHECK VALVES, STAINLESS STEEL SPRINGS, EPDAA OR BRONZE SEATS. PROVIDE OS&Y GATE VALVES. VALVES SHALL HAVE A 175-PSIG PRESSURE RATING.
- F. PROVIDE SYSTEM DRAIN VALVES AND INSPECTORS TEST DRAINS AS PER NFPA 13 2002 EDITION AND AHJ. DRAINS SHALL BE PROVIDED AT LOW POINTS IN PIPING, AT BASE OF RISERS, AND WHEREVER NECESSARY FOR PROPER DRAINAGE.
- G. WATERFLOW INDICATORS SHALL BE U.L. APPROVED CLOSED CIRCUIT WITH ADJUSTABLE RETARD AND TWO SETS OF CONTACTS.
- H. SUPERVISORY SWITCHES SHALL BE U.L. APPROVED, TAMPER PROOF DIE CAST ALUMINUM HOUSING AND TWO SETS OF CONTACTS.
- 2.03 SMOKE AND FIRESTOPPING:
- A. FIRESTOP ALL PIPING PASSING THROUGH FIRE RATED WALLS, SLABS, ETC. INSTALL STEEL SCH. 40, SLEEVES EXTENDING 2" ABOVE FLOOR OR BEYOND WALL, THE SPACE BETWEEN THE PIPES AND THE SLEEVES SHALL BE PACKED WITH AN APPROVED FIRESTOPPING MATERIAL. THE SPACE BETWEEN PIPE SLEEVE AND FLOOR OR WALL SHALL BE FILLED WITH A SUITABLE FLOOR OR WALL MATERIAL. FIRESTOP MATERIAL SHALL BE MANUFACTURED BY HILTI FIRESTOP PRODUCTS AND SHALL BE FACTORY MUTUAL APPROVED, U.L. LISTED. SHEET METAL OR PVC SLEEVES SHALL NOT BE USED. SUBMIT SAMPLE OF FIRESTOP MATERIAL TO BE USED ON PROJECT TO THE LOCAL FIRE CHIEF AND ENGINEER FOR REVIEW AND APPROVAL BEFORE PLACING ORDER.

2.04 ACCESS PANELS:

- A. FURNISH FIRE RATED ACCESS PANELS IN WALLS AND CEILINGS FOR VALVES. COORDINATE ACCESS PANEL LOCATIONS WITH EXISTING CONDITIONS. PIPING & VALVES SHALL BE LAID OUT IN SUCH A MANNER AS TO MINIMIZE THE NUMBER OF ACCESS PANELS REQUIRED. MILCOR PRODUCTS, VENTLOCK, KNAPP. MINIMUM SIZE: 12" X 12". PROVIDE ACCESS PANELS FOR ALL DRAIN VALVES AND INSPECTORS TEST VALVES AND ZONE CONTROL VALVES.

2.05 IDENTIFICATION, MARKING AND TAGGING:

A. PIPING SYSTEM IDENTIFICATION:

1. PIPING SYSTEMS SHALL BE IDENTIFIED AS INDICATED HEREIN OR AS REQUIRED BY APPLICABLE CODES AND/OR OFFICIALS HAVING JURISDICTION.
2. PIPE MARKERS SHALL BE COLOR CODED ACCORDING TO "TABLE 2: CLASSIFICATION OF MATERIALS AND DESIGNATIONS TO COLORS" - ANSI A13.1-1981.
3. PIPE MARKERS SHALL INDICATE DIRECTION OF FLOW, SYSTEM, OPERATING PRESSURE AND TEMPERATURE.
4. PIPE MARKERS SHALL BE OF THE PRESSURE SENSITIVE TYPE AS MANUFACTURED BY THE SETON NAMEPLATE CORP.
5. PIPE MARKERS SHALL BE INSTALLED AT EVERY POINT OF ENTRY AND EXIT THROUGH FLOORS, WALLS, CEILINGS OR OTHER CEALMENT, ON EACH RISER, TAKE-OFF AND BRANCH AND AT EACH PIECE OF EQUIPMENT.
6. INSTALL PIPE MARKERS AT A DISTANCE OF NOT LESS THAN 25 FEET APART IN CONTINUOUS LENGTHS OF PIPE LINES AND ORIENTED SO THAT MARKERS ARE CLEARLY VISIBLE. WHEN PIPE LINES ARE LOCATED ABOVE THE NORMAL LINE OF VISION, THE MARKER SHALL BE PLACED BELOW THE HORIZONTAL CENTERLINE OF THE PIPE.
- C. VALVE IDENTIFICATION:

1. PROVIDE LAMINATED PLASTIC NAMEPLATES ON ALL VALVES INSTALLED UNDER DIVISION 15, EXCEPT STOP VALVES IN SUPPLIES TO FIXTURES. TAGS SHALL BE CONSTRUCTED OF 0.125 INCHES THICK MELAMINE PLASTIC CONFORMING TO FED. SPEC. L-P-387. SURFACE SHALL BE MATTIE FINISH. ACCURATELY ALIGN LETTERING AND ENGRAVE INTO WHITE CORE. NAMEPLATES SHALL BE TO 2 INCHES ROUND OR HEXAGONAL. LETTERING SHALL BE MINIMUM OF 0.375 INCH HIGH NORMAL BLOCK LETTERING. KEY THE NAMEPLATES TO A CHART AND SCHEDULE FOR EACH SYSTEM UNDER GLASS AND PLACE WHERE DIRECTED IN MECHANICAL ROOM. FURNISH FOUR COPIES OF EACH CHART AND SCHEDULE. EACH INSCRIPTION SHALL IDENTIFY IT'S FUNCTION. ATTACH NAMEPLATES WITH "S" HOOKS AND CHAIN TO EACH VALVE.

2.06 SLEEVES, INSERTS AND ESCUTCHEONS:

- A. PROVIDE SLEEVES FOR ALL WORK PASSING THROUGH FLOOR, WALL, AND CEILING CONSTRUCTION. MAINTAIN ALL RATINGS.
- B. LOCATE AND PROVIDE SLEEVES AND INSERTS BEFORE THE FLOOR, WALL OR CEILING IS CONSTRUCTED. IF THIS CONTRACTOR DOES NOT COMPLY WITH THE ABOVE, THEY SHALL BEAR ALL COSTS INCURRED FOR CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF SLEEVES AND INSERTS. HOLES REQUIRED FOR SLEEVES IN EXISTING WALLS AND FLOORS, OR TO CONFORM TO THE ABOVE, SHALL BE SAW CUT OR CORE DRILLED. THIS CONTRACTOR SHALL PROVIDE ALL DRILLING REQUIRED FOR THE INSTALLATION OF HANGERS.
- C. PIPE SLEEVES THROUGH OUTSIDE WALLS AND SLAB-ON-GRADE FLOOR SHALL BE SCHEDULE 80 BLACK STEEL PIPE WITH 150 LB. BLACK STEEL SLIP-ON WELDED FLANGES WELDED AT THE CENTER OF THE OUTSIDE. EXTEND SLEEVES 1/2 INCHES BEYOND EACH SIDE OF THE WALL. PACK THE SPACE BETWEEN SLEEVE AND PIPE WITH OAKUM TO WITHIN 2 INCHES OF EACH FACE OF THE WALL. PACK THE REMAINING SPACE AND MAKE WATERTIGHT WITH AN APPROVED WATERPROOF COMPOUND. (INSIDE FACE OF SLAB ON GRADE FLOOR.) FOR EXISTING WALL CONSTRUCTION, CENTER FLANGE WILL NOT BE REQUIRED.
- D. PIPE SLEEVES THROUGH CONCRETE FLOORS OR INTERIOR MASONRY WALLS SHALL BE SCHEDULE 40 BLACK STEEL PIPE, SET FLUSH WITH FINISHED WALL OR CEILING SURFACES, BUT EXTENDING 2 INCHES ABOVE FINISHED FLOORS. PLASTIC, PVP, OR LIGHT METAL SLEEVES SHALL NOT BE INSTALLED.
- E. PROVIDE INDIVIDUAL OR STRIP TYPE INSERTS PRESSED STEEL CONSTRUCTION WITH ACCOMMODATION FOR REMOVABLE NUTS AND THREADED RODS UP TO 3/4 INCH DIAMETER, PERMITTING LATERAL ADJUSTMENT. INDIVIDUAL INSERTS SHALL HAVE AN OPENING AT THE TOP TO ALLOW REINFORCING RODS TO 1/2 INCH DIAMETER TO BE PASSED THROUGH THE INSERT BODY AND SHALL BE SIMILAR TO FEE AND MASON MANUFACTURING COMPANY FIGURE 178. STRIP INSERTS SHALL HAVE ATTACHED RODS WITH HOODED ENDS TO ALLOW FASTENING TO REINFORCING RODS SHALL BE SIMILAR TO FEE AND MASON MANUFACTURING COMPANY.
- F. WHERE PIPE MOTION DUE TO EXPANSION AND CONTRACTION WILL OCCUR, MAKE SLEEVES OF SUFFICIENT DIAMETER TO PERMIT FREE MOVEMENT OF PIPE. WHERE ALL SLEEVES PASS INSULATED PIPES, THE SLEEVES SHALL BE LARGE ENOUGH TO PASS THE PIPE AND THE INSULATION. CHECK FLOOR AND WALL CONSTRUCTION FINISHES TO DETERMINE PROPER LENGTH OF SLEEVES FOR VARIOUS LOCATIONS.
- G. ESCUTCHEON PLATES SHALL BE PROVIDED FOR ALL EXPOSED UNINSULATED PIPES PASSING THROUGH WALLS, FLOORS, AND CEILINGS. PLATES SHALL BE NICKEL PLATED, OF THE SPLIT RING TYPE, OF SIZE TO MATCH THE PIPE. WHERE PLATES ARE PROVIDED FOR PIPES PASSING THROUGH SLEEVES WHICH EXTEND ABOVE THE FLOOR SURFACE, PROVIDE DEEP RECESSED PLATES TO CONCEAL PIPE SLEEVES.
- H. FASTEN SLEEVES SECURELY IN FLOORS, WALLS, ETC. SO THAT THEY WILL NOT BECOME DISPLACED WHEN CONCRETE IS POURED OR WHEN CONSTRUCTION IS BUILT AROUND THEM. TAKE PRECAUTIONS TO PREVENT CONCRETE, PLASTER, OR OTHER MATERIALS BEING FORCED INTO THE SPACE BETWEEN PIPE AND SLEEVE DURING CONSTRUCTION.

PART III EXECUTION

3.01 SPRINKLER SYSTEM:

- A. INSTALL AS REQUIRED TO MEET NFPA 13, FIRE MARSHAL, FIRE DEPARTMENT AND ALL APPLICABLE STATE AND CITY CODES.
- B. SPRINKLERS SHALL BE INSTALLED SO THAT THEIR DISCHARGE PATTERN IS NOT OBSTRUCTED BY SURFACE MOUNTED LIGHTS, SOFFITS AND OTHER OBSTRUCTIONS. PROVIDE DEEP ESCUTCHEONS WHERE REQUIRED TO LOWER SPRINKLERS BELOW CEILING SURFACE MOUNTED FIXTURES.
- C. COORDINATE SPRINKLER AND PIPE LOCATIONS WITH STRUCTURAL ELEMENTS AND ALL COMPONENTS OF OTHER MECHANICAL AND ELECTRICAL SYSTEMS.
- 3.02 PIPING, HANGERS, VALVES & ACCESSORIES:
- A. PIPING SHALL BE RUN PARALLEL WITH THE LINES OF THE BUILDING; WELL SUPPORTED FROM THE STRUCTURE: FREE FROM POCKETS AND SAGS. PITCH PIPING TO DRAIN POINTS.
- B. PIPING SHALL BE INSTALLED TO PROVIDE NOT LESS THAN 3/4" SPACING FROM FINISHED SURFACE TO OTHER SURFACES OF OTHER CONSTRUCTION.
- C. ALL PIPING SHALL BE CONCEALED ABOVE SUSPENDED CEILINGS WHERE THEY OCCUR.
- D. PROVIDE RETURN BENDS TO LOCATE SPRINKLERS IN THE CENTER OF CEILING TILES.
- E. ALL PIPING SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF APPROVED HANGER AND SUPPORTS. PIPE SHALL BE SUPPORTED TO MAINTAIN REQUIRED GRADING AND PITCHING OF LINES TO PREVENT VIBRATION AND TO SECURE PIPING IN PLACE AND SHALL BE ARRANGED SO AS TO PROVIDE FOR PROPER EXPANSIONS AND CONTRACTION OF PIPE.
- F. SPACE HANGERS IN ACCORDANCE WITH NFPA 13 AND INSURANCE AND MANUFACTURER'S INSTALLATION REQUIREMENTS. INSTALL SEISMIC PROTECTION IN ACCORDANCE WITH NFPA 13.
- G. INSTALLATION PRACTICES FOR CPVC PIPING SUCH AS PIPE SUPPORT SPACING, BRACING, ALLOWANCE FOR THERMAL EXPANSION/CONTRACTION, SOLVENT WELDING AND HANDLING AND STORAGE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE U.L. LISTING WHICH INCLUDES INSTALLATION LIMITATIONS.
- H. PROVIDE ALL ALARM COMPONENTS AS REQUIRED FOR PROPER OPERATION OF THE FIRE PROTECTION SYSTEMS.
- I. ALL WIRING SHALL BE BY ELECTRICAL CONTRACTOR.

3.03 CUTTING AND PATCHING:

- A. PROVIDE ALL CUTTING AND PATCHING NECESSARY TO INSTALL THE WORK SPECIFIED IN THIS DIVISION. PATCHING SHALL MATCH ADJACENT SURFACES.
- B. SAW CUT, CHANNEL, CHASE, AND CORE-DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES NECESSARY FOR FIRE PROTECTION INSTALLATION. PERFORM CUTTING BY SKILLED MECHANICS OF THE TRADE INVOLVED. REPAIR CUT SURFACES TO MATCH ADJACENT SURFACES.
- C. FIRESTOP ALL PENETRATIONS BETWEEN FLOORS & FIRE RATED WALLS.
- D. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER, & ALL SUCH CUTTING SHALL BE ACCOMPLISHED IN A MANNER DIRECTED BY THE STRUCTURAL ENGINEER.

- E. THE CONTRACTOR SHALL ARRANGE AND CONDUCT OPERATING TESTS ON ALL EQUIPMENT IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, THE COMPONENT PARTS OF SYSTEMS AND THE VARIOUS SYSTEMS SHALL BE DEMONSTRATED TO OPERATE IN ACCORDANCE WITH THE REQUIREMENTS AND INTENT OF THIS SPECIFICATION, ANY NON-COMPLYING OR DEFECTIVE MATERIALS OR WORKMANSHIP DISCLOSED AS A RESULT OF THE INSPECTION AND TESTS SHALL BE CORRECTED PROMPTLY BY THE CONTRACTOR, AND THE TESTS REPEATED AS OFTEN AS NECESSARY UNTIL APPROVED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

3.04 TESTING:

- A. ALL FIRE PROTECTION SYSTEMS PIPING INCLUDED IN THE SCOPE OF THE PROJECT SHALL BE TESTED & REPAIRED BY THIS CONTRACTOR. TESTING OF SYSTEM SHALL BE DONE AT THE EXPENSE OF THIS CONTRACTOR, AND WITH EQUIPMENT FURNISHED BY THEM. TESTING SHALL BE IN THE PRESENCE OF DULY AUTHORIZED LOCAL INSPECTORS AND THE OWNER'S REPRESENTATIVE WITH 48-HOUR NOTICE GIVEN TO THESE AUTHORITIES. ALL SYSTEMS SHALL BE REPAIRED AND RETESTED UNTIL REQUIREMENTS OF NFPA 13, NFPA 25 AND AHJ ARE SATISFIED, WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- B. CONTRACTOR SHALL ALSO COMPLY WITH ANY SPECIFIC REQUIREMENTS OF THE STATE FIRE MARSHAL, LOCAL FIRE DEPARTMENT, BUILDING INSPECTOR'S OFFICE AND INSURANCE COMPANY.

3.05 COMPLETION:

- A. PROVIDE PROPERLY EXECUTED CERTIFICATE OF INSPECTION FROM THE STATE FIRE MARSHAL'S INSPECTION OFFICE.
- B. VERIFY THAT PROJECT RECORD DOCUMENTS ARE COMPLETE AS SPECIFIED UNDER SUBMITTALS AND RECORD DOCUMENTS.

3.06 CODES, PERMITS AND INSPECTIONS:

- A. ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENTS OF THE STATE BUILDING CODES NFPA STANDARD 1, 13 & 101, STATE & LOCAL CODES, BUILDINGS INSURANCE COMPANY, AND AUTHORITIES HAVING JURISDICTION OVER THE WORK OF THIS PROJECT.
- B. SECURE REQUIRED PERMITS, INSPECTION & TEST CERTIFICATES, TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE WORK. PAY ALL ASSOCIATED FEES.

3.07 CLEANING AND TESTS:

- A. MAKE ALL TESTING AND CLEANING ON ALL SYSTEMS, WITH A WRITTEN GUARANTEE. ALL TESTS TO BE IN ACCORDANCE WITH NFPA 25 AND APPROVED BY ALL STATE & CITY AGENCIES AT CONTRACTOR'S COST.
- B. CLEAN AND TEST ALL NEW SPRINKLER SYSTEM PIPING.

- C. UPON COMPLETION, ALL DEBRIS SHALL BE REMOVED FROM THE SITE & THE AREA LEFT BROOM CLEAN.

3.08 OPERATING AND MAINTENANCE INSTRUCTIONS:

- A. AFTER FINAL TESTS AND ADJUSTMENTS FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATIONS FOR EQUIPMENT INSTALLED. A SIGNED RECEIPT WHICH SHALL BE OBTAINED FROM THE OPERATOR SHALL BE CONSTRUED AS EVIDENCE THAT INSTRUCTIONS WERE SATISFACTORY.
- B. FURNISH THREE (3) COPIES OF WRITTEN DESCRIPTIONS OF ALL SYSTEMS COVERING ALL OPERATING PROCEDURES. WHEN MANUFACTURER STANDARD INSTRUCTIONS ARE UTILIZED, THEY SHALL BE CLEARLY MARKED AS TO INDICATED APPLICABILITY. SHOP DRAWINGS SUBMITTED TO THE ENGINEERS OFFICE SHALL HAVE A P.E. STAMP, OWNER'S INSURANCE COMPANY'S APPROVAL STAMP, AND APPROVAL STAMP FROM THE STATE FIRE MARSHAL AND BUILDING INSPECTOR'S REVIEW OFFICE. DRAWINGS AND HYDRAULIC CALCULATIONS MUST HAVE THESE APPROVAL STAMPS OR THEY WILL BE IMMEDIATELY RETURNED AS REJECTED.

3.09 GUARANTEES:

- A. ALL WORK SHALL BE GUARANTEED TO BE FREE FROM LEAKS OR OTHER DEFECTS. ALL DEFECTIVE MATERIAL OR WORKMANSHIP AS WELL AS DAMAGES TO THE WORK OF ALL TRADES RESULTING FROM SAME SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- B. THE GUARANTEE PERIOD SHALL BE FOR ONE (1) YEAR FORM THE DATE OF ACCEPTANCE, WHICH SHALL BE THE DATE OF FINAL PAYMENT OR THE DATE OF FORMAL NOTICE OF ACCEPTANCE, WHICHEVER IS EARLIER.
- C. CERTIFICATION SHALL BE SUBMITTED BY THE CONTRACTOR ATTESTING TO THE FACT THAT SPECIFIED PERFORMANCE CRITERIA ARE MET BY NEW SYSTEM.

3.10 ELECTRICAL WORK:

- A. ELECTRICAL COMPONENTS OF FIRE PROTECTION EQUIPMENT AND SYSTEMS, SUCH AS MOTORS, FACTORY MOUNTED STARTERS, FACTORY MOUNTED DISCONNECTS AND CONTROL EQUIPMENT SHALL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR.
- B. RELAYS AND WIRING REQUIRED FOR INTERLOCKING SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR. POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

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PROJECT NO.

25114

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REVISIONS

NO.	DESCRIPTION	DATE

ISSUED FOR BID

ISSUED DATE:

JULY 1, 2026

SHEET TITLE

FIRE PROTECTION SPECIFICATION

DRAWING NO.

FP3.0

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MECHANICAL SPECIFICATIONS		
<u>PART 1 - GENERAL</u> 1.0 GENERAL REQUIREMENTS: A. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND SERVICES NECESSARY TO FURNISH, FABRICATE AND INSTALL ALL WORK SPECIFIED HEREIN. REFER TO THE DRAWINGS FOR FURTHER DEFINITION OF LOCATION, EXTENT AND DETAILS OF THE WORK. 1.1 WORK INCLUDED: A. THE INTENTION OF THE SPECIFICATIONS AND PLANS IS TO PROVIDE FOR FURNISHED SYSTEMS, PROPERLY TESTED, BALANCED AND READY FOR OPERATION, INCLUDING NECESSARY MINOR DETAILS AND ACCESSORIES REQUIRED TO MAKE THE WORK COMPLETE, EVEN THOUGH SUCH ITEMS MAY NOT BE EXPRESSLY SHOWN OR SPECIFIED. B. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATION INCLUDES THE FURNISHING OF ALL LABOR AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF THE HVAC WORK SHOWN ON THE DRAWINGS AND AS DESCRIBED HEREIN AND SHALL BE INTERPRETED AS WORK TO BE DONE BY THIS CONTRACTOR. WORK TO BE PERFORMED BY OTHER TRADES WILL ALWAYS BE SPECIFICALLY REFERENCED TO A PARTICULAR CONTRACTOR AND/OR SECTION. C. CONTRACTOR, PRIOR TO SUBMITTING BID SHALL VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND TO INSPECT THAT ALL PROVISIONS HAVE BEEN MADE FOR ALL ASPECTS OF THIS PROJECT. IF DISCREPANCIES EXIST BETWEEN DRAWINGS AND/OR SITE CONDITIONS, THE HVAC CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER PRIOR TO SIGNING OF CONTRACT. REQUESTS FOR COMPENSATION FOR EXTRA WORK, WHICH WOULD HAVE BEEN EVIDENT BY COMPLIANCE WITH THE PREVIOUS STATEMENT, WILL NOT BE CONSIDERED. 1.2 REGULATORY REQUIREMENTS, CODES, ORDINANCES AND PERMITS A. ALL WORK PERFORMED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE NATIONAL, STATE AND LOCAL CODES, LAWS AND ORDINANCES. B. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND FILING ALL PLANS, SPECIFICATIONS AND OTHER DOCUMENTS, PAY ALL REQUISITE FEES AND SECURE ALL PERMITS, INSPECTIONS AND APPROVALS NECESSARY FOR THE LEGAL INSTALLATION AND OPERATION OF THE SYSTEM AND/OR EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS. 1.3 SUBMITTALS: A. PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT AND RECORD DRAWINGS FOR ALL WORK PROVIDED UNDER THIS CONTRACT TO THE ARCHITECT/ENGINEER FOR HIS REVIEW AND APPROVAL PRIOR TO ORDERING, FABRICATING OR INSTALLING. 1.4 COORDINATION: A. WORK SHALL BE PERFORMED IN COOPERATION WITH OTHER TRADES ON THE PROJECT AND SO SCHEDULED AS TO ALLOW SPEEDY AND EFFICIENT COMPLETION OF THE WORK. B. IT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE OF EQUIPMENT. C. HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EQUIPMENT, DUCTS OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, AND ROOF PENETRATIONS WITH ARCHITECT. D. THIS CONTRACTOR SHALL NOT UNNECESSARILY DISTURB OR INTERFERE WITH THE OWNER'S USE OF THE FACILITIES ASSOCIATED WITH OR ADJACENT TO THIS CONTRACT. WHEN INTERFERENCE IS NECESSARY, PERMISSION SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR BEFORE ANY OPERATION OR SERVICE LINE IS DISTURBED OR DISCONNECTED. 1.5 GUARANTEE/WARRANTY A. ALL NEW MATERIALS, ITEMS OR EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS SECTION SHALL CARRY STANDARD WARRANTY AGAINST ALL DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF WORK. ANY FAULT DUE TO DEFECTIVE OR IMPROPER MATERIAL, EQUIPMENT, WORKMANSHIP OR MANUFACTURING DESIGN WHICH MAY DEVELOP WITHIN THAT PERIOD SHALL BE MADE GOOD, FORTHWITH, BY AND AT THE EXPENSE OF THIS CONTRACTOR, INCLUDING ALL OTHER DAMAGES DONE TO AREAS, MATERIALS AND OTHER SYSTEMS RESULTING FROM THIS FAILURE. B. THIS CONTRACTOR SHALL GUARANTEE THAT ALL NEW ELEMENTS OF THE SYSTEMS MEET THE SPECIFIED PERFORMANCE REQUIREMENTS AS SET FORTH HEREIN OR AS INDICATED ON THE DRAWINGS. <u>PART 2: PRODUCTS</u> 2.1 DUCTWORK A. GENERAL: MATERIAL, CONSTRUCTION AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE MOST RECENT EDITIONS OF THE FOLLOWING STANDARDS AND REFERENCES, EXCEPT FOR MORE STRINGENT REQUIREMENTS SHOWN ON THE DRAWINGS: 1. SMACNA HVAC DUCT CONSTRUCTION STANDARDS 2. SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL 3. PROVIDE SUPPORTING AND HANGING DEVICES NECESSARY TO INSTALL THE ENTIRE HVAC SYSTEM INDICATED ON THE DRAWINGS. DUCTWORK SHALL BE FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION. DIMENSIONS SHOWN ON THE DRAWINGS ARE NET INSIDE DIMENSIONS. NO PIPES, CONDUITS, HANGERS, OR ARCHITECTURAL ELEMENTS SHALL PASS THROUGH DUCTWORK. B. RATINGS: 1. DUCT CONSTRUCTION CLASS 2" OR LESS AND STATIC PRESSURE RATINGS OF 2" OR LESS POSITIVE AND NEGATIVE SHALL BE SMACNA SEAL CLASS B AND LEAKAGE CLASS 12 FOR ALL VELOCITIES OF 2500 FEET/MIN. OR LESS. C. SEALING REQUIREMENTS: 1. CLASS B/LEAKAGE CLASS 12: GALVANIZED, NON-WELDED ALUMINUM OR NON-WELDED STAINLESS STEEL DUCTWORK TRAVERSE JOINTS SHALL BE MADE WITH SEALING TAPE EQUAL TO HARDCAST MODEL 1902-FR. CORNERS SHALL BE SEALED AS DESCRIBED BY SMACNA. SEAL ALL NON-FLANGED TRAVERSE JOINTS WITH HARDCAST VERSA MODEL 102 OR APPROVED EQUAL. LONGITUDINAL SEAMS SHALL BE SEALED WITH HARD-CAST COLD SEAL MODEL 1001. A. SUPPORT: SPACE HANGERS AS REQUIRED BY SMACNA (8 FT. MAX.) FOR HORIZONTAL ON 8 FT. CENTERS, UNLESS CONCENTRATED LOADINGS REQUIRE CLOSER SPACING. SUPPORT VERTICAL DUCT AT ROOF PENETRATIONS. SUPPORTS FOR DUCTWORK AND EQUIPMENT SHALL BE GALVANIZED UNLESS SPECIFIED OTHERWISE. B. CONSTRUCTION: 1. NO SHARP METAL EDGES SHALL EXTEND INTO AIR STREAMS. INSTALL DRIVE SLIPS ON AIR-LEAVING SIDE OF DUCT WITH SHEET METAL SCREWS ON 6" CENTERS. SPIN IN COLLARS SHALL NOT BE USED FOR BRANCH CONNECTIONS IN 3" OR HIGHER PRESSURE CLASS DUCTWORK. 2.2 DUCT INSULATION A. GENERAL: 1. INSULATION SHALL BE KNAFF, CERTAIN-TEED, JOHNS MANVILLE OR OWENS CORNING. INSTALL INSULATION, MASTICS, ADHESIVES, COATINGS, COVERS, ETC. AS REQUIRED BY MANUFACTURER'S RECOMMENDATIONS. MATERIALS SHALL MEET REQUIREMENTS OF ADHESIVE AND SEALANT COUNCIL STANDARDS AND SMACNA. 2. APPLY INSULATION AFTER SYSTEMS HAVE BEEN TESTED, PROVED TIGHT AND APPROVED BY ARCHITECT. REMOVE DIRT, SCALE, OIL, RUST AND OTHER FOREIGN MATTER PRIOR TO INSTALLATION OF INSULATION. 3. LEAKS IN VAPOR BARRIER OR VOIDS IN INSULATION WILL NOT BE ACCEPTED. 4. ASTM E-84 MINIMUM FIRE HAZARD RATINGS SHALL BE 25 FLAME-SPREAD, 50 FUEL CONTRIBUTED AND 50 SMOKE DEVELOPED. 5. WHERE DUCTS ARE INSULATED, FLEXIBLE CONNECTIONS TO DUCTS SHALL BE INSULATED. 6. INSULATE STANDING SEAMS WITH SAME MATERIAL AND THICKNESS AS DUCT. 7. INSULATION SHALL BE CONTINUOUS THROUGH WALL AND CEILING OPENINGS AND IN SLEEVES. 8. TRANSMISSION RATES OF VAPOR BARRIERS SHALL NOT EXCEED 0.02 PERMS. B. RECTANGULAR AND CIRCULAR DUCTWORK 1. INSULATE ALL SUPPLY AND RETURN AIR DUCTS IN UNCONDITIONED CONCEALED SPACES WITH R-8 FIBERGLASS DUCT WRAP WITH FOL-KRAFT FLAME RESISTANT VAPOR BARRIER. 2. COVER BREAKS IN VAPOR MATERIAL WITH PATCHES OF SAME MATERIAL, SECURED WITH ADHESIVE AND STAPLES. SEAL STAPLES WITH MATCHING FOIL FACE TYPE. 2.3 REGISTERS, GRILLES AND DIFFUSERS: A. REGISTERS, GRILLES AND DIFFUSERS SHALL BE OF ALUMINUM CONSTRUCTION IN THE MODEL SIZE AND CAPACITY SCHEDULED ON THE DRAWINGS. EQUIPMENT SHALL BE AS MANUFACTURED BY PRICE, METAL AIRE OR TITUS. B. COORDINATE GRILLES WITH MOUNTED TYPE ON CEILING OR WALL CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, CEILING TYPE AND WALL CONSTRUCTION PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT. <u>PART 3: EXECUTION</u> 3.1 TESTING AND CLOSEOUT A. CLEANING 1. UPON COMPLETION ALL SHEET METAL WORK SPECIFIED UNDER THIS SECTION IS TO BE CLEANED. ALL EQUIPMENT IS TO BE CLEANED, ALL TRIM INSTALLED, ALL PROTECTIVE OIL, TAPE OR OTHER MATERIALS USED TO PROTECT WORK ARE TO BE REMOVED. 3.2 TESTING AND BALANCING A. SYSTEM BALANCE AS INDICATED ON FLOOR PLANS SHALL BE PERFORMED IN ACCORDANCE WITH AABC NATIONAL STANDARDS FOR FIELD MEASUREMENT AND INSTRUMENTATION, TOTAL SYSTEM BALANCE OR ASHRAE SYSTEMS HANDBOOK.		

MECHANICAL NEW WORK LEGEND	
SYMBOL	DESCRIPTION
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	CONNECT TO EXISTING

DIFFUSER AND GRILLE SCHEDULE							
GENERAL		PHYSICAL			REMARKS		
TAG	SIZE (IN)	BLOW PATTERN	BRANCH DUCT (IN)	MANUFACTURER MODEL	TYPE	FEATURES	INSTALL
(S1)	SEE PLANS	4W	SEE PLANS	PRICE AMX	①	①	①②③④
(S2)	SEE PLANS	DOUBLE DEFLECTION	SEE PLANS	PRICE 620	②	①	①②
① HIGH INDUCTION DIRECTIONAL DIFFUSER, SQUARE TO ROUND NECK ADAPTER, ALUMINUM, WHITE FINISH.							
② LOUVERED FACE SUPPLY GRILLE, DOUBLE DEFLECTION, 45° FIXED BLADES ON ¾" CENTERS, BLADES PARALLEL TO LONG DIMENSION, ALUMINUM, COLOR SELECTED BY ARCHITECT.							
① REFER TO FLOOR PLANS AND ARCHITECTURAL RCP PLANS FOR MOUNTING TYPE							
① REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM MOUNTING TYPE OF ALL GRILLES AND DIFFUSERS AND FINAL LOCATION PRIOR TO ORDERING							
② PROVIDE A DUCT MOUNTED VOLUME DAMPER OR CONSTANT AIRFLOW REGULATOR WHETHER OR NOT A DUCT MOUNTED VOLUME DAMPER IS INDICATED ON PLAN. EXCEPTIONS:							
• TRANSFER AIR APPLICATIONS (GRILLE IS NOT CONNECTED BY A DUCTWORK SYSTEM TO A FAN)							
• EXHAUST AND RETURN GRILLES WHERE ONLY ONE GRILLE SERVES THE FAN/AIR HANDLING SYSTEM							
• GRILLES CONNECTED TO RELIEF AIR HOODS AND RELIEF AIR LOUVERS							
③ REFER TO DETAIL							
③ DIFFUSERS/GRILLES LOCATED IN ACT CEILINGS SHALL BE NON-BEVELLED SURFACE MOUNT AND CUT INTO THE ACT CEILING TILE FOR SIZES 14x14 AND SMALLER. DIFFUSERS/GRILLES LARGER THAN 14x14 SHALL BE T-BAR LAY-IN							

AIR DUCT CLEANING SPECIFICATION	
1.01 SCOPE:	
A. ALL EXISTING DUCTWORK TO REMAIN SHALL BE CLEANED PER THIS SPECIFICATION.	C. COLLECTORS SHALL BE FAN POWERED, HIGH EFFICIENCY DUST AND PARTICULATE COLLECTION SYSTEMS WHICH WILL BE UTILIZED IN AREAS WHERE DEBRIS IS BEING REMOVED FROM THE SYSTEM. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DIRT AND DEBRIS FROM ENTERING THE CONDITIONED SPACES. THE COLLECTION SYSTEMS SHALL BE A SELF-CONTAINED UNIT, WITH APPROPRIATE COMPONENTS TO ADEQUATELY PREVENT DIRT AND DEBRIS LOOSENED FROM UPSTREAM DUCT MAINS AND BRANCHES DURING CLEANING OPERATIONS FROM ENTERING THE DIFFUSER PLENUMS BY CAPTURING THIS DEBRIS WITHIN THE COLLECTION DEVICE. THE COMPONENTS OF THE COLLECTOR THAT CONNECT THE BASE COLLECTION UNIT TO THE DIFFUSER PLENUM SHALL BE AIR TIGHT AND REUSABLE FROM AREA TO AREA WITHOUT DIFFUSER PLENUM OR DUCT. THE FILTRATION WITHIN THESE COLLECTION SYSTEMS SHALL BE AS A MINIMUM, TWO STAGE FILTRATION 95 % EFFICIENT ON 1 MICRON AT RATED FLOW. IF NECESSARY, FILTRATION WILL BE INDUSTRIAL GRADE 99.97 % EFFICIENT ON .3 MICRONS AT RATED FLOW.
1.02 CODES AND STANDARDS:	D. BY AGITATING THE LOOSE DEBRIS ON THE INTERIOR SURFACES, INTRODUCE THE DEBRIS INTO THE AIR FLOW PRODUCED AND CONTROLLED BY THE COLLECTION SYSTEMS. COLLECTION SYSTEMS SHALL BE ABLE TO PRODUCE A MINIMUM OF .42" WATER GAUGE IN THE TARGETED SECTION OF DUCT TO BE CLEANED. DEBRIS SHALL TRAVEL THROUGH THE DUCT WORK TO THE POINT OF COLLECTION.
A. NFC-90A AND 90B SHALL GOVERN ALL WORK.	C. AGITATION EQUIPMENT:
2.01 AIR DUCT CLEANING:	1. DUCT WORK SHALL BE CLEANED BY INSERTING AIR POWERED LANCES, AIR POWERED EXTENDED WHIP SECTIONS, AIR POWERED OSCILLATING BRUSH SYSTEMS, OR ELECTRIC ROTARY BRUSH SYSTEMS THROUGH THE INSTALLED ACCESS. UTILIZE EQUIPMENT THAT WILL BEST CONTACT ALL SURFACES OF THE DUCT REGARDLESS OF SIZE OR SHAPE.
A. CONTRACTOR SHALL SUPPLY ALL MATERIALS FOR CLEANING WORK INCLUDING PORTABLE HEPA FILTERED COLLECTION SYSTEMS, ROTARY BRUSHES, FILTERS, AIR LANCES, MECHANICAL AGITATORS, VACUUMS, OR OTHER EQUIPMENT AND MATERIALS NECESSARY TO PERFORM WORK SPECIFIED. FURNISH MATERIALS AND EQUIPMENT THAT ARE OF A REPUTABLE MANUFACTURER. TRUCK MOUNTED VACUUM SYSTEMS WILL NOT BE UTILIZED ON THIS PROJECT. CHEMICALS UTILIZED IN THIS PROJECT SHALL HAVE A MATERIALS SAFETY DATA SHEET (MSDS) SUBMITTED TO THE ARCHITECT BEFORE PRODUCT USAGE.	2. WHERE DUCT WORK IS LARGE ENOUGH, AND ABLE TO SUPPORT THE WEIGHT OF A WORKER, HAND TOOLS, AND VACUUMS MAY BE USED. IF WORKERS ENTER THE INSIDE OF THE DUCT WORK, THEY MUST FOLLOW THE OSHA CONFINED SPACE REQUIREMENTS (OSHA 29 CFR 1910.146) AND ADHERE TO OSHA RESPIRATORY PROTECTION PROGRAM (OSHA CFR 1926.59 APPENDIX C) REQUIREMENTS. COLLECTION EQUIPMENT MUST BE INSTALLED IN THE SECTION OF DUCT TO BE CLEANED BY HAND AS A PRECAUTIONARY MEASURE TO CATCH ANY RESIDUAL DEBRIS.
3.01 AIR DISTRIBUTION SYSTEM:	
A. ACCESS SYSTEM INSTALLATION:	
1. CONTRACTOR SHALL INSTALL ACCESS INTO DUCT WORK SYSTEMS ASSOCIATED WITH AIR HANDLERS REGARDLESS OF DUCT SIZE OR LOCATION. ACCESS POINTS AND DOORS SHALL BE A PERMANENT REUSABLE SYSTEM AND CONFORM TO SECTION 1 OF THIS SPECIFICATION. NO OTHER ACCESS SYSTEM WILL BE ALLOWED. ANY RELATED DUCT WORK MUST NOT BE CUT INTO FOR CLEANING PURPOSES OTHER THAN TO INSTALL ACCESS POINTS OR DOORS. THE STRUCTURAL INTEGRITY OF THE DUCT WORK SHALL NOT BE ALTERED BY ACCESS SYSTEM INSTALLATION. NO SHEET METAL PATCHES WILL BE ALLOWED TO COVER ACCESS HOLES. REUSABLE ACCESS DOORS ONLY MAY BE USED.	
B. DUCT WORK CLEANING PROCESS:	D. SANITIZING:
1. DEBRIS COLLECTION PROCESS	1. SANITIZING THE AIR DISTRIBUTION NETWORK SHALL BE PERFORMED AS REQUIRED. THERE SHALL BE MINIMUM NEGATIVE AIR SUPPLIED BY COLLECTORS TO THE DUCT BEING SANITIZED. MINIMUM NEGATIVE PRESSURE FOR SANITIZING SHALL BE .12 WG. USING AN AIR SPRAYER OR FOGGING DEVICE SYSTEM COVER THE INTERIOR SURFACES OF THE DUCT WORK. MAKE CERTAIN THAT ALL SURFACES ARE KEPT WET FOR AT LEAST 10 MINUTES AFTER APPLICATION. (SANITIZING FLUID SHALL BE REGISTERED WITH THE EPA).
a. EQUIPMENT USED SHALL BE PORTABLE AND SIZED TO ENTER THESE AREAS. ELECTRICAL REQUIREMENTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THROUGH THE CLIENTS ELECTRICAL DEPARTMENT. MODIFICATIONS TO ACCOMMODATE ELECTRICAL REQUIREMENTS WILL BE AT THE CONTRACTOR'S EXPENSE FOR ELECTRICAL SUPPLIES NECESSARY.	
b. EACH MAIN DUCT SECTION SHALL BE ADDRESSED BY FIRST SECURING DEBRIS COLLECTION EQUIPMENT TO SEVERAL DIFFUSER BRANCH DUCTS OR TO AN ISOLATED SECTION OF DUCT WORK IN THAT SECTION. WHILE CLEANING DUCT SECTION, NO CONTAMINANTS SHALL BE ALLOWED TO ENTER THE DIFFUSERS AREA.	

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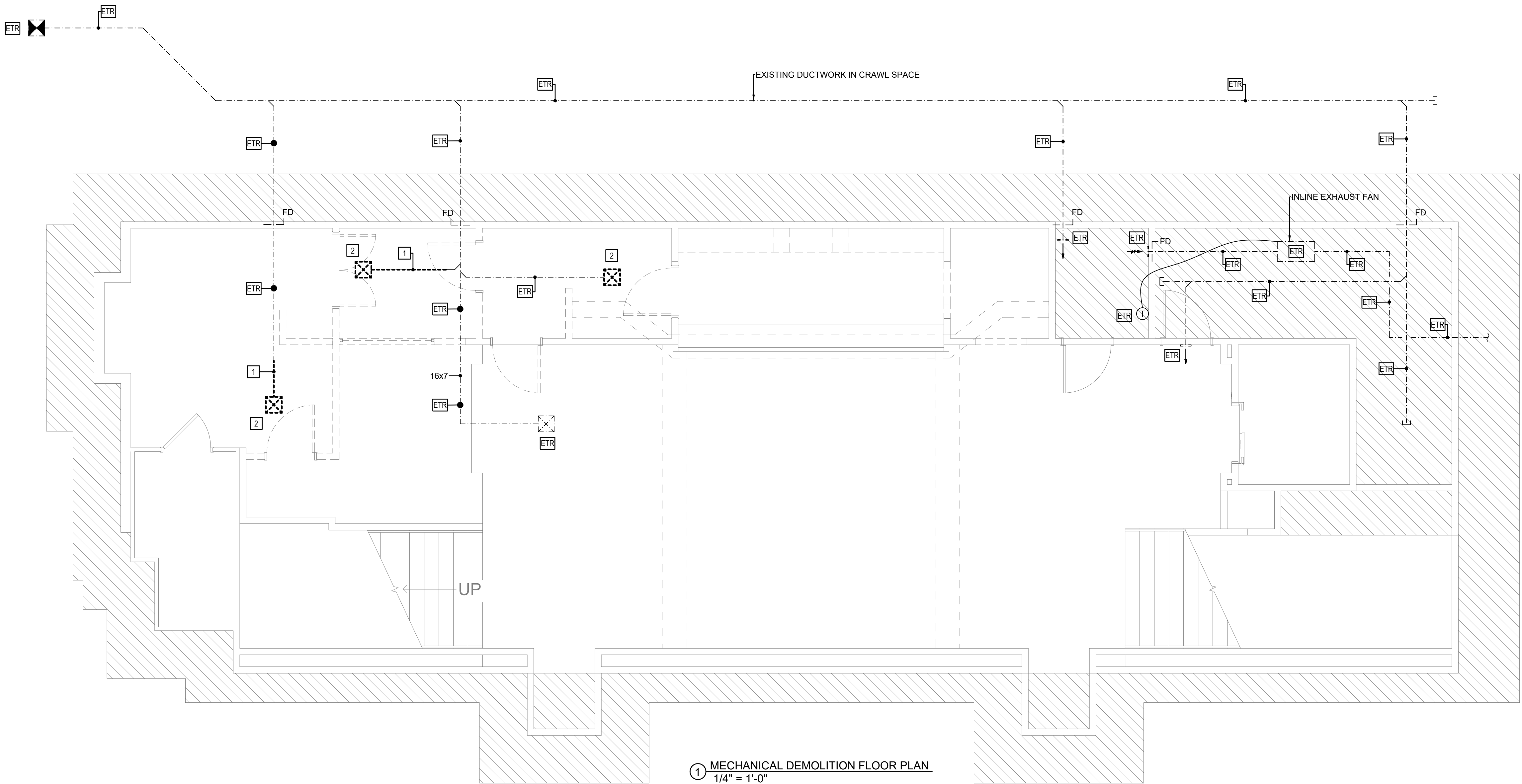
SHEET TITLE

LEGEND, SCHEDULE & SPECIFICATIONS

DRAWING NO.

M0.1

BER #:26037



MECHANICAL & ELECTRICAL DEMOLITION PLAN LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO BE DEMOLISHED
	EXISTING TO REMAIN
	EXISTING TO REMAIN

MECHANICAL DEMOLITION KEYED NOTES	
1	REMOVE AND DISPOSE OF EXISTING SUPPLY AIR DUCTWORK, INSULATION, HANGERS AND ALL ASSOCIATED APPURTENANCES TO POINT INDICATED. EXISTING DUCTWORK SHALL REMAIN AS INSTALLED WHERE NOTED "ETR".
2	REMOVE AND DISPOSE OF EXISTING SUPPLY GRILLE, HANGERS, AND ALL ASSOCIATED APPURTENANCES IN ITS ENTIRETY.

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AND INSTALLATION OF THE WORK.
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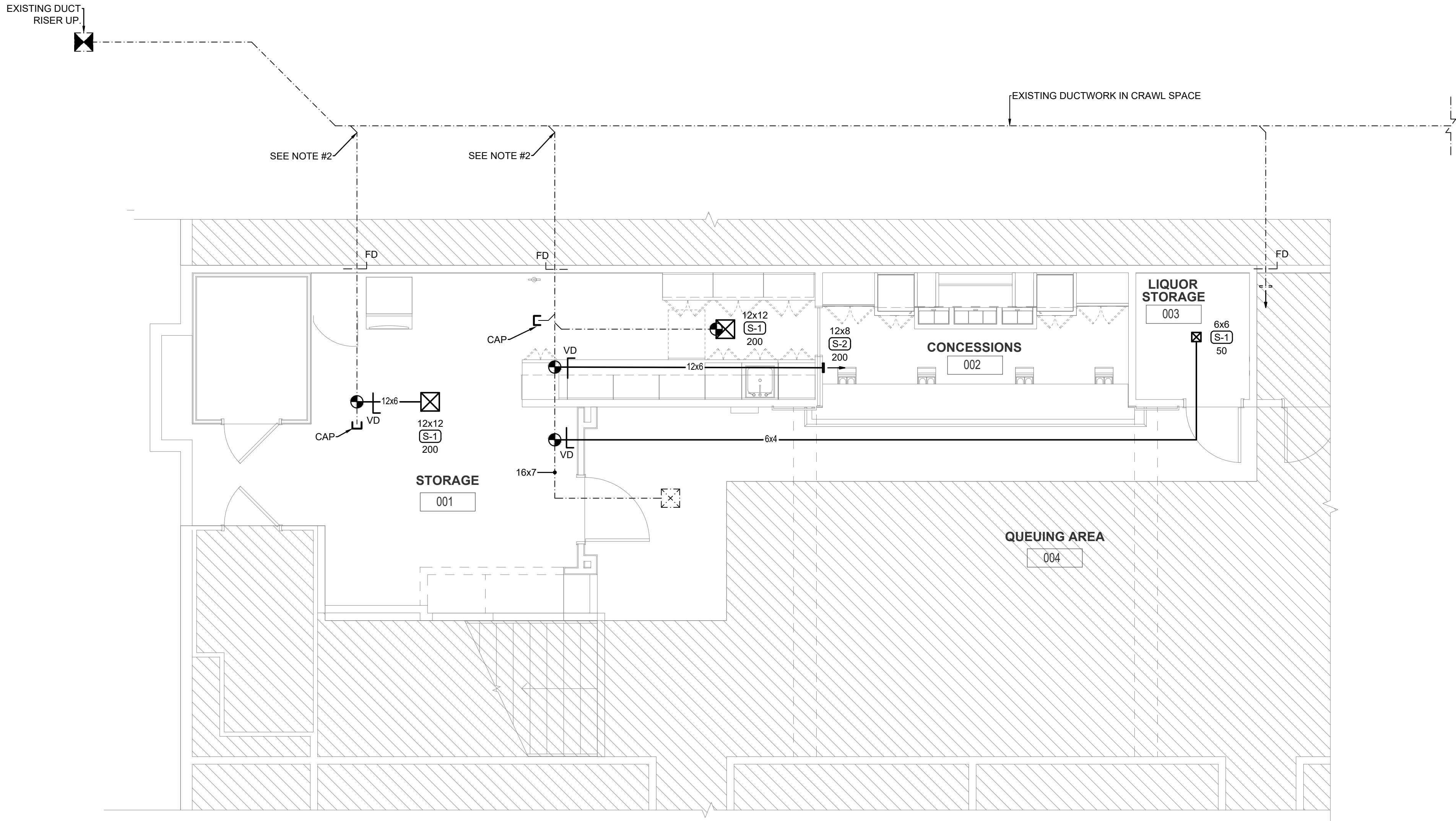
REVISIONS		
NO.	DESCRIPTION	DATE

**ISSUED FOR
BID**

ISSUED DATE: JULY 1, 2026

SHEET TITLE
**MECHANICAL
DEMOLITION
FLOOR PLAN**

DRAWING NO.
M1.0



① MECHANICAL PROPOSED FLOOR PLAN
1/4" = 1'-0"

RENOVATION GENERAL NOTES
1. CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXISTING TO REMAIN DUCTWORK WITHIN THE SCOPE OF WORK PER THE DUCT CLEANING SPECIFICATION ON DRAWING M0.1.
2. CONTRACTOR SHALL MEASURE AND DOCUMENT THE EXISTING SYSTEM SUPPLY AIR FLOWS AT EACH SUPPLY AIR BRANCH TO ENSURE THE DESIRED AIR FLOWS PRIOR TO DEMOLITION. PROVIDE MEASURED CFM VALUES, LOCATION OF MEASUREMENT AND DATE OF TESTING TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO THE START OF DEMOLITION ACTIVITIES.
3. CONTRACTOR SHALL PATCH AND SEAL AIR-TIGHT ALL OPENINGS WITHIN THE EXISTING TO REMAIN DUCTWORK AS RESULT OF REMOVING OR MODIFYING THE EXISTING DUCTWORK.

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1 AVE OF THE ARTS,
PROVIDENCE, RI 02903

PROJECT NO. 25114
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REVISIONS		
NO.	DESCRIPTION	DATE

ISSUED FOR
BID

ISSUED DATE: JULY 1, 2026

SHEET TITLE
MECHANICAL
PROPOSED FLOOR
PLAN

DRAWING NO.
M1.1

LEGEND NOTES

MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS INDICATED OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS

ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

HOMERUNS

P-1

HOMERUN TO PANELBOARD. "P" DENOTES PANEL. "1" DENOTES CIRCUIT NUMBER, 20 AMP 1 POLE CIRCUIT BREAKER UNLESS INDICATED OTHERWISE. WIRING SHALL BE 2#12+1#12G IN 3/4\"C. AT MINIMUM.

MULTI-POLE HOMERUN TO PANELBOARD. "P" DENOTES PANEL. "2,4,6" DENOTES CIRCUIT NUMBERS, "30/3" DENOTES 30 AMP 3 POLE CIRCUIT BREAKER. WIRING SHALL BE AS INDICATED.

RACEWAYS AND WIRING

2#10,#10G EMERGENCY ONLY WIRING

CABLE TRAY - REFER TO SPECIFICATIONS FOR REQUIREMENTS

FLEXIBLE CONNECTION TO EQUIPMENT. RACEWAY AND CONDUCTOR RATING TO MATCH ASSOCIATED BRANCH CIRCUIT OR FEEDER.

BRANCH CIRCUIT OR FEEDER CONCEALED IN FINISHED AREA.

BRANCH CIRCUIT OR FEEDER CONCEALED UNDER FINISHED FLOOR.

BRANCH CIRCUIT OR FEEDER TURNING UP TOWARDS OBSERVER.

BRANCH CIRCUIT OR FEEDER TURNING DOWN AWAY FROM OBSERVER.

CONDUIT STUBBED ABOVE CEILING.

LIGHTING FIXTURES

SURFACE OR RECESSED MOUNTED LIGHTING FIXTURE ON NORMAL CIRCUIT. "A" DENOTES FIXTURE TYPE, "2" DENOTES CIRCUIT NUMBER, "a" DENOTES SWITCH CONTROL.

LIGHTING FIXTURE WIRED TO CONSTANT-ON OR NORMAL EMERGENCY CIRCUIT

SURFACE OR RECESSED MOUNTED LINEAR LIGHTING FIXTURE

PENDANT MOUNTED LINEAR LIGHTING FIXTURE

ROUND RECESSED LIGHTING FIXTURE

DECORATIVE PENDANT LIGHTING FIXTURE

WALL MOUNTED LIGHTING FIXTURE

WALL WASH OR DIRECTIONAL LIGHTING FIXTURE

CEILING MOUNTED ILLUMINATED EXIT SIGN, SINGLE OR DOUBLE FACE, WITH OR WITHOUT ARROWS AS INDICATED ON DRAWINGS

WALL MOUNTED ILLUMINATED EXIT SIGN - SHADING INDICATES FACE PLATE(S)

SELF-CONTAINED EMERGENCY LIGHTING UNIT

REMOTE EMERGENCY LIGHTING HEADS - SINGLE OR DOUBLE AS SHOWN.

POLE MOUNTED SITE LIGHTING FIXTURE

TRACK LIGHTING AND HEADS; LENGTH OF TRACK AND QUANTITY OF HEADS AS SHOWN ON FLOOR PLANS

INVERTER

LIGHTING CONTROL DEVICES

SINGLE POLE TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

THREE WAY TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

FOUR WAY TOGGLE SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

KEY OPERATED SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

SINGLE POLE TOGGLE SWITCH WITH RED PILOT LIGHT.

DIMMER SWITCH; SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

CEILING MOUNTED OCCUPANCY SENSOR.

CEILING MOUNTED VACANCY SENSOR.

WALL MOUNTED VACANCY SENSOR.

PHOTOCELL.

TIME CLOCK.

LOW VOLTAGE 4-BUTTON (ON/RAISE/LOWER/OFF) WALL SWITCH; WATTSTOPPER #LMSW-211. SUBSCRIPT INDICATES LIGHTING FIXTURE CONTROL.

LOAD CONTROLLER; WATTSTOPPER #LMRC-211. PROVIDE ONE POWER PACK PER SWITCH LEG OR CIRCUIT AS REQUIRED.

LOW VOLTAGE CEILING MOUNTED DUAL TECH OCCUPANCY SENSOR WITH DAYLIGHT HARVESTING; WATTSTOPPER #LMDC-100.

RECEPTACLES AND POWER DEVICES

DUPLEX RECEPTACLE, "2" DENOTES CIRCUIT NUMBER, "48" DENOTES MOUNTING HEIGHT (18" UNLESS OTHERWISE NOTED), "IG" DENOTES ISOLATED GROUND TYPE DEVICE, "WIP" DENOTES WEATHER PROOF COVER

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON ARCHITECTURAL PLANS

DOUBLE DUPLEX RECEPTACLE

DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON THE ARCHITECTURAL PLANS

DUPLEX RECEPTACLE ONE HALF SWITCH CONTROLLED

DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER, PROVIDE DEDICATED 20A/1P GFCI CIRCUIT BREAKER UNLESS NOTED OTHERWISE.

DUPLEX RECEPTACLE FLOOR MOUNTED

SPECIAL PURPOSE RECEPTACLE, "L6-30" DENOTES TYPE, SEE POWER PLANS FOR EXACT TYPES USED

SINGLE RECEPTACLE

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE

CEILING MOUNTED DUPLEX RECEPTACLE

DUPLEX RECEPTACLE WITH (2) USB TYPE A PORTS.

FACTORY WIRED, FIELD ASSEMBLED UL LISTED, MULTIOUTLET ASSEMBLY. "12" DENOTES SINGLE RECEPTACLES MOUNTED ON 12" CENTERS

FIELD WIRED, UL LISTED, OF MULTIOUTLET ASSEMBLY, QUANTITY AND TYPE DEVICES AS INDICATED

SURFACE MOUNTED RACEWAY, DIVIDED RACEWAY WITH DATA AND DUPLEX RECEPTACLES AS INDICATED

POWER POLE ASSEMBLY

FIRE RATED POKE-THRU WITH FLUSH MOUNTED DEVICES. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE RATED FURNITURE FEED WITH FLEXIBLE CONNECTION TO FURNITURE SYSTEM. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

FIRE RATED FLOOR BOX WITH FLUSH MOUNTED DEVICES. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

POWER DISTRIBUTION SYSTEM

DISTRIBUTION PANEL

PANELBOARD, SURFACE MOUNTED

PANELBOARD, FLUSH MOUNTED

JUNCTION BOX, SIZED PER NEC

MOTOR, "2" DENOTES HORSEPOWER

MANUAL MOTOR STARTER WITH THERMAL OVERLOAD, "P" DENOTES PILOT LIGHT

MAGNETIC MOTOR STARTER WITH ENCLOSURE, MINIMUM SIZE NEMA 1

NON-FUSED DISCONNECT SWITCH: "30/3" DENOTES 30 AMP/3 POLE SWITCH

FUSED DISCONNECT SWITCH: "30/20/3" DENOTES 30 AMP/3 POLE SWITCH, 20 AMP FUSES

COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH AND FUSE AS REQUIRED

DRY-TYPE DISTRIBUTION TRANSFORMER, "15" DENOTES SIZE.

AUTOMATIC TRANSFER SWITCH

"K" FACTOR DRY TYPE TRANSFORMER, "2" DENOTES SIZE

TRANSIENT VOLTAGE SURGE SUPPRESSION

METER SOCKET AND UTILITY METER BY UTILITY COMPANY

ENCLOSED CIRCUIT BREAKER

UNINTERRUPTIBLE POWER SUPPLY

ELECTRICAL GROUNDING BUSBAR

ELECTRICAL MAIN GROUNDING BUSBAR

GROUND

TELECOMMUNICATIONS

TELECOMMUNICATIONS:
E.C. SHALL PROVIDE A DOUBLE GANG BACK BOX WITH SINGLE GANG REDUCER, 1" CONDUIT AND PULLSTRING STUBBED OUT ABOVE ACCESSIBLE CEILING AT ALL LOCATIONS. ALL DEVICES SHALL BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.

TELEPHONE OUTLET

TELEPHONE OUTLET FLOOR MOUNTED

COMPUTER SYSTEM OUTLET

COMPUTER SYSTEM OUTLET, FLOOR MOUNTED

COMBINATION TELEPHONE/DATA OUTLET

COMBINATION TELEPHONE/DATA POWER POLE ASSEMBLY

TELECOMMUNICATIONS GROUNDING BUSBAR

TELECOMMUNICATIONS MAIN GROUNDING BUSBAR

ABBREVIATIONS

3R NEMA 3R RATING

4X NEMA 4X RATING

AAMP AMPERES

AC ALTERNATING CURRENT

ADA AMERICAN WITH DISABILITIES ACT

AF AMPERE FRAME

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AHJ AUTHORITY HAVING JURISDICTION

AIC AMPERE INTERRUPTING CAPACITY

AL ALUMINUM

AT AMPERE TRIP

ARCH ARCHITECT

ATS AUTOMATIC TRANSFER SWITCH

AWG AMERICAN WIRE GAUGE

BFG BELOW FINISHED GRADE

C CONDUIT

C.T. CURRENT TRANSFORMER

CAT CATALOG

CATV CABLE TELEVISION

CB CIRCUIT BREAKER

CCTV CLOSED CIRCUIT TV SYSTEM

CD CANDELA

CKT CIRCUIT

CU COPPER

dB DECIBEL

DC DIRECT CURRENT

DWG DRAWING

E WIRED ON EMERGENCY CIRCUIT

EC ELECTRICAL CONTRACTOR

EM EMERGENCY

F FAHRENHEIT

FBA FINISH BY ARCHITECT

FLA FULL LOAD AMPERES

G GROUND

GC GENERAL CONTRACTOR

GFCI GROUND FAULT CIRCUIT INTERRUPTER

HH HAND HOLE

HP HORSE POWER

HVAC HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR

HZ HERTZ

IG ISOLATED GROUND

JB JUNCTION BOX

KCMIL ONE THOUSAND CIRCULAR MILS

KVA KILOVOLT-AMPERES

KW KILOWATTS

MCA MINIMUM CIRCUIT AMPS

MCB MAIN CIRCUIT BREAKER

MCC MOTOR CONTROL CENTER

MD MOTORIZED DAMPER

MLO MAIN LUGS ONLY

MOCP MAXIMUM OVER-CURRENT PROTECTION

MH MANHOLE

N NEUTRAL

NC NORMALLY CLOSED

NEC NATIONAL ELECTRICAL CODE

NL NIGHT LIGHT

NIC NOT IN CONTRACT

NO NORMALLY OPEN

NTS NOT TO SCALE

Ø PHASE

P POLE

PC PLUMBING CONTRACTOR

P.T. POTENTIAL TRANSFORMER

PVC POLYVINYL CHLORIDE

SN SOLID NEUTRAL

SM SURFACE MOUNT

ST SHUNT TRIP

T/D TEL/DATA

TEL TELEPHONE

TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR

TYP TYPICAL

UG UNDERGROUND

UL UNDERWRITERS LABORATORIES

UNO UNLESS NOTED OTHERWISE

UPS UNINTERRUPTIBLE POWER SUPPLY

V VOLTS

VA VOLT-AMPERE

VFD VARIABLE FREQUENCY DRIVE

VIF VERIFY IN FIELD

W WATT

WP WEATHERPROOF

XFMR TRANSFORMER

MISCELLANEOUS

CONTROL PANEL

PULL BOX - SIZED PER NEC FOR CONDUITS ENTERING AND LEAVING AS REQUIRED

CABLE TELEVISION OUTLET, WALL MOUNTED, E.C. SHALL PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING TO NEAREST ACCESSIBLE CEILING. PROVIDE FACEPLATE WITH TYPE "F" CONNECTOR AT BOX.

GARAGE DOOR 3 BUTTON CONTROL STATION.

PUSHBUTTON AND PLATE

120 VOLT RECESSED CLOCK HANGER OUTLET

CENTRAL SYSTEM CLOCK WIRED TO CORRECTIVE CLOCK WIRING SYSTEM 12" DIAMETER UNLESS OTHERWISE NOTED "SP" DENOTES SHATTER GUARD

CLOCK/SPEAKER COMBINATION

MASTER CLOCK PANEL

INTERCOM

MASTER INTERCOM PANEL

DOOR BELL/BUZZER, LOW VOLTAGE

LOW VOLTAGE TRANSFORMER

MUSHROOM TYPE PUSHBUTTON STATION FOR ACTIVATION OF SHUNT-TRIP DEVICE ON INDICATED CIRCUIT BREAKER

COAXIAL CABLE OUTLET

PARTIAL PLAN/DETAIL CALL OUT TAG; TOP NUMBER INDICATES PLAN/DETAIL AND BOTTOM NUMBER INDICATES SHEET CONTAINING PLAN/DETAIL.

FLUSH VALVE/SENSOR FAUCET POWER CONNECTION TO ALL TRANSFORMERS FOR PLUMBING FIXTURES IN ROOM COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH PLUMBING CONTRACTOR.

DEMOLITION AND REMOVAL WORK

1. REMOVE ALL ELECTRICAL EQUIPMENT, WIRING, AND OTHER ELECTRICAL WORK AS REQUIRED. DISCONNECT LOAD AND LINE END OF CONDUCTORS FEEDING DEVICES WHICH ARE TO BE REMOVED OR ABANDONED. REMOVE CONDUCTORS NOT TO BE REUSED OR RECONNECTED TO NEXT ACTIVE OUTLET OR POWER SOURCE. REMOVE MATERIAL AND EQUIPMENT AND DISPOSE OF AS DIRECTED.

2. WHEREVER IT IS REQUIRED TO DISCONNECT OR REMOVE ANY PART OF AN EXISTING CIRCUIT, IMMEDIATELY RECONNECT THAT CIRCUIT OR REESTABLISH SERVICE IN THE REMAINING PORTION OF THE CIRCUIT. THE WORK SHALL ALSO INCLUDE THE REMOVAL OF MATERIALS AS DIRECTED, PRIOR TO REMOVING EQUIPMENT AND MATERIAL FROM PROJECT SITE, THE BUILDING MANAGER OR OWNER WILL INSPECT AND ADVISE WHICH ITEMS WILL BE STORED.

3. WHERE EXISTING RECEPTACLES AND/OR SWITCHES ARE LOCATED IN COLUMNS AND/OR EXTERIOR WALLS, AND ARE NOT TO BE REUSED, REMOVE RECEPTACLE AND CAP OUTLET BOX. RECEPTACLES SHOWN ON PARTITIONS TO BE REMOVED SHALL HAVE ALL WIRING AND CONDUIT REMOVED AS WELL.

4. WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, OR APPARATUS, THE SAME SHALL BE REPAIRED OR CLOSED UP TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR AND ADJOINING WORK, UNLESS OTHERWISE CALLED FOR.

5. SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FURNITURE, FIXTURES, OR ANY OTHER EQUIPMENT OR APPARATUS, SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.

6. WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT WILL RESULT IN OUTAGES IN AREA NOT TO BE DEMOLISHED, THIS CONTRACTOR SHALL COORDINATE IN ADVANCE AND OBTAIN THE APPROVAL OF THE BUILDING MANAGER OR OWNER.

LIGHTING FIXTURE NOTES

1. PROVIDE ACCESSORIES AND MOUNTING HARDWARE FOR ALL FIXTURES.

2. COLORS SHALL BE AS SELECTED BY ARCHITECT.

3. COORDINATE EXACT LOCATIONS OF ALL FIXTURES WITH ARCHITECT'S REFLECTED CEILING PLAN, ELEVATIONS, SECTIONS, AND THE WORK OF OTHER TRADES PRIOR TO ROUGH-IN.

4. E.C. SHALL ENSURE THAT ALL PROPOSED SWITCHES AND DIMMER SWITCHES ARE COMPATIBLE WITH THE LIGHT FIXTURE(S) INDICATED TO BE CONTROLLED. INSTALL ALL SWITCHES AND DIMMER SWITCHES PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

5. ALL SELF CONTAINED EMERGENCY LIGHTING UNITS AND EXIT LIGHTING IN THE BUILDING SHALL BE CONNECTED TO THE NEAREST UN-SWITCHED LIGHTING CIRCUIT SERVING THE AREA WITH 2#12 & 1#12G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.

6. LOCATIONS OF ALL SWITCHES SHALL COMPLY WITH ADA CRITERIA.

7. WHERE SWITCH CONTROLS ("a", "b", ETC.) ARE INDICATED, WIRE THE SWITCHES TO THE RESPECTIVE LIGHT FIXTURE. IF A FIXTURE HAS TWO OR MORE SWITCH DESIGNATIONS, WIRE FIXTURE SO THAT IT WILL BE CONTROLLED BY THE SWITCHES INDICATED.

8. WIRE EXIT SIGNS TO LIGHTING CIRCUIT SERVING THE AREA AHEAD OF ALL CONTROLS.

9. WIRE NIGHT LIGHTING FIXTURES FOR 24/7 OPERATION VIA UN-SWITCHED CIRCUIT AS INDICATED.

10. METAL ROOF DECKS SHALL NOT BE TAPPED FOR SUPPORT OF ANY LIGHTING FIXTURES OR ELECTRICAL EQUIPMENT. PROVIDE UNISTRUT OR OTHER SUPPLEMENTAL SUPPORT FITTINGS TO BE ATTACHED TO BUILDINGS STRUCTURAL FRAMING AS REQUIRED TO SUPPORT ALL LIGHTING FIXTURES AND ELECTRICAL EQUIPMENT.

BRANCH CIRCUIT WIRING NOTES

1. WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.

2. WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.

3. ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.

4. ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.

5. A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.

6. PROVIDE A NEUTRAL CONDUCTOR TO ALL NEW LIGHTING SWITCH BOXES PER NEC ARTICLE 404.2.

7. IN ALL NON-DWELLING TYPE OCCUPANCIES, ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC ARTICLE 210.8(B)(2).

8. WHERE EXISTING SWITCHES AND RECEPTACLES ARE INDICATED TO REMAIN, THIS CONTRACTOR SHALL REPLACE SAID DEVICES(S) AND DEVICE PLATE(S) WITH NEW TO MATCH THE NEW CONSTRUCTION, WHERE THEY ARE INDICATED AS RELOCATED, EXTEND BRANCH CIRCUIT WIRING TO NEW LOCATION AND PROVIDE NEW DEVICE AND DEVICE PLATE TO MATCH NEW CONSTRUCTION.

MECHANICAL/PLUMBING EQUIPMENT TAG

MECHANICAL/PLUMBING EQUIPMENT TAG. "RTU" DENOTES EQUIPMENT TYPE, "1" DENOTES EQUIPMENT NUMBER. REFER TO "SCHEDULE FOR MECHANICAL/PLUMBING EQUIPMENT" FOR ALL CIRCUIT INFORMATION, INCLUDING BUT NOT LIMITED TO BRANCH CIRCUIT WIRING, CONDUIT SIZE, VOLTAGE, PHASE, DISCONNECT SWITCH, AND CIRCUIT BREAKER. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT EQUIPMENT LOCATIONS AND EQUIPMENT TYPE ABBREVIATIONS.

DEMOLITION LEGEND

"ETR" DENOTES EXISTING ELECTRICAL DEVICE WHICH IS TO REMAIN.

"ETD" DENOTES EXISTING ELECTRICAL DEVICE WHICH IS TO BE DEMOLISHED. PULL BACK WIRINGS AND CONDUIT BACK TO NEXT ACTIVE OUTLET OR POWER SOURCE.

"ETRL" DENOTES EXISTING ELECTRICAL DEVICE TO BE DISCONNECTED AND RELOCATED. EXISTING CIRCUIT SHALL BE EXTENDED AS REQUIRED TO NEW LOCATION OF EXISTING ELECTRICAL DEVICE.

"RL" DENOTES NEW LOCATION OF RELOCATED EXISTING ELECTRICAL DEVICE.

"ETRP" DENOTES EXISTING DEVICE TO BE REMOVED AND REPLACED. EXISTING CIRCUIT/WIRING AND BACK BOX SHALL REMAIN. NEW DEVICE SHALL BE LOCATED IN PLACE.

"RP" DENOTES REPLACED DEVICE.

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PROJECT NAME

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PROJECT NO. 25114

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ISSUED DATE: JULY 1, 2026

SHEET TITLE

ELECTRICAL LEGEND

DRAWING NO.

E0.1

BER #:26037

KEYED SHEET NOTES

- 1
- ALL EXISTING ELECTRICAL EQUIPMENT SYSTEMS SHALL BE DEMOLISHED IN ENTIRETY.
- 2
- EXISTING FIRE ALARM SYSTEM SHALL REMAIN AS TEMPORARY PROTECTION DURING CONSTRUCTION.

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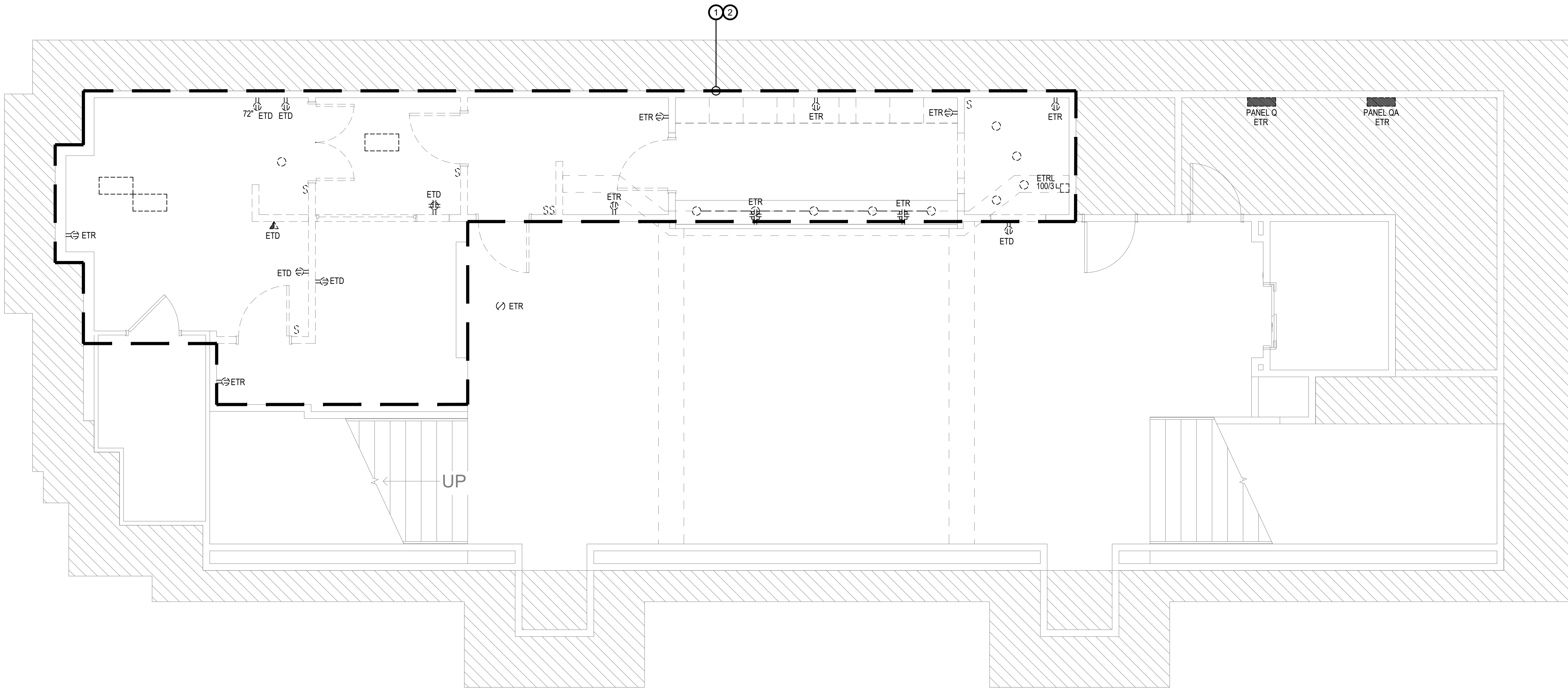
ISSUED DATE: JULY 1, 2026

SHEET TITLE

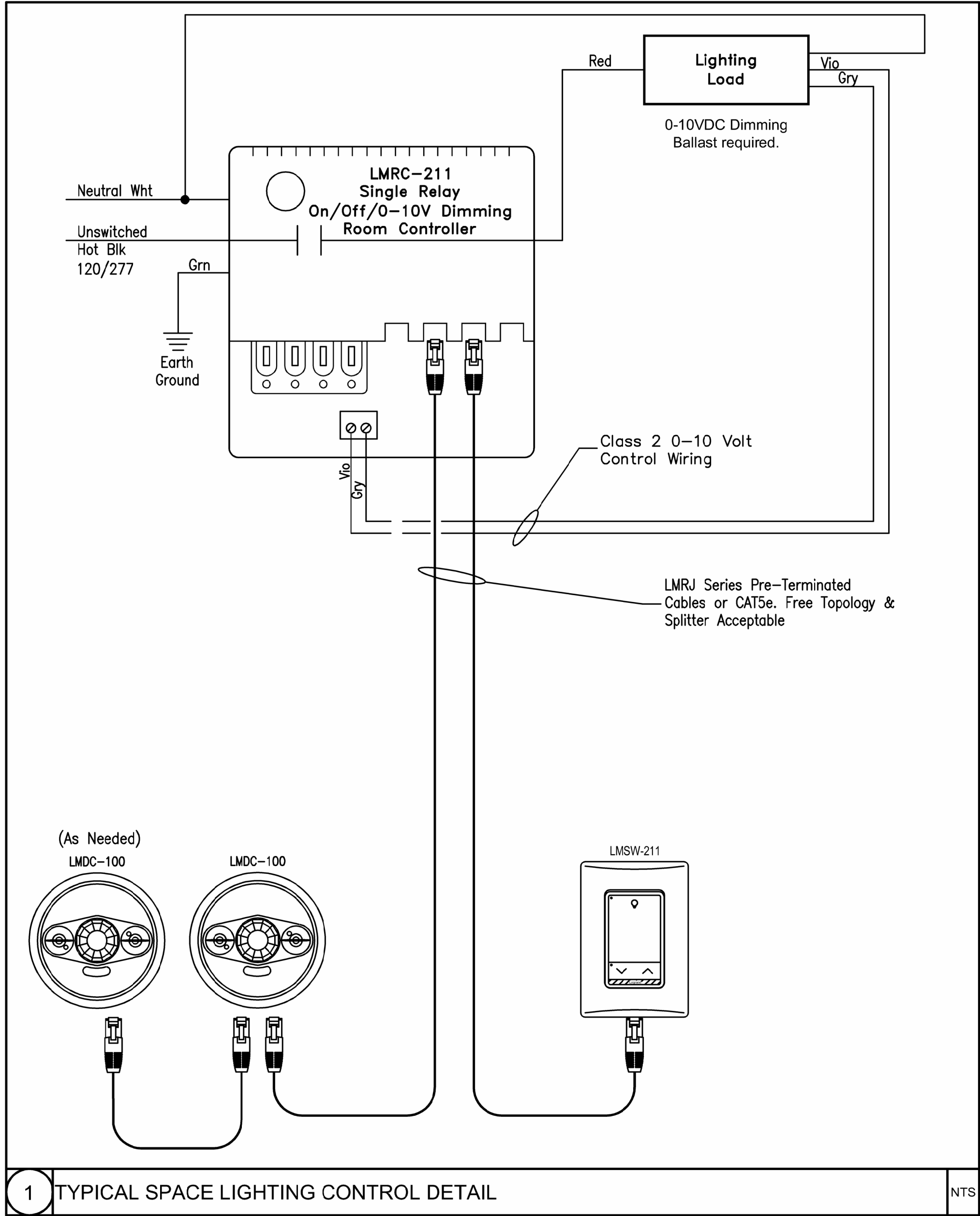
ELECTRICAL
DEMO FLOOR
PLAN - LIGHTING

DRAWING NO.

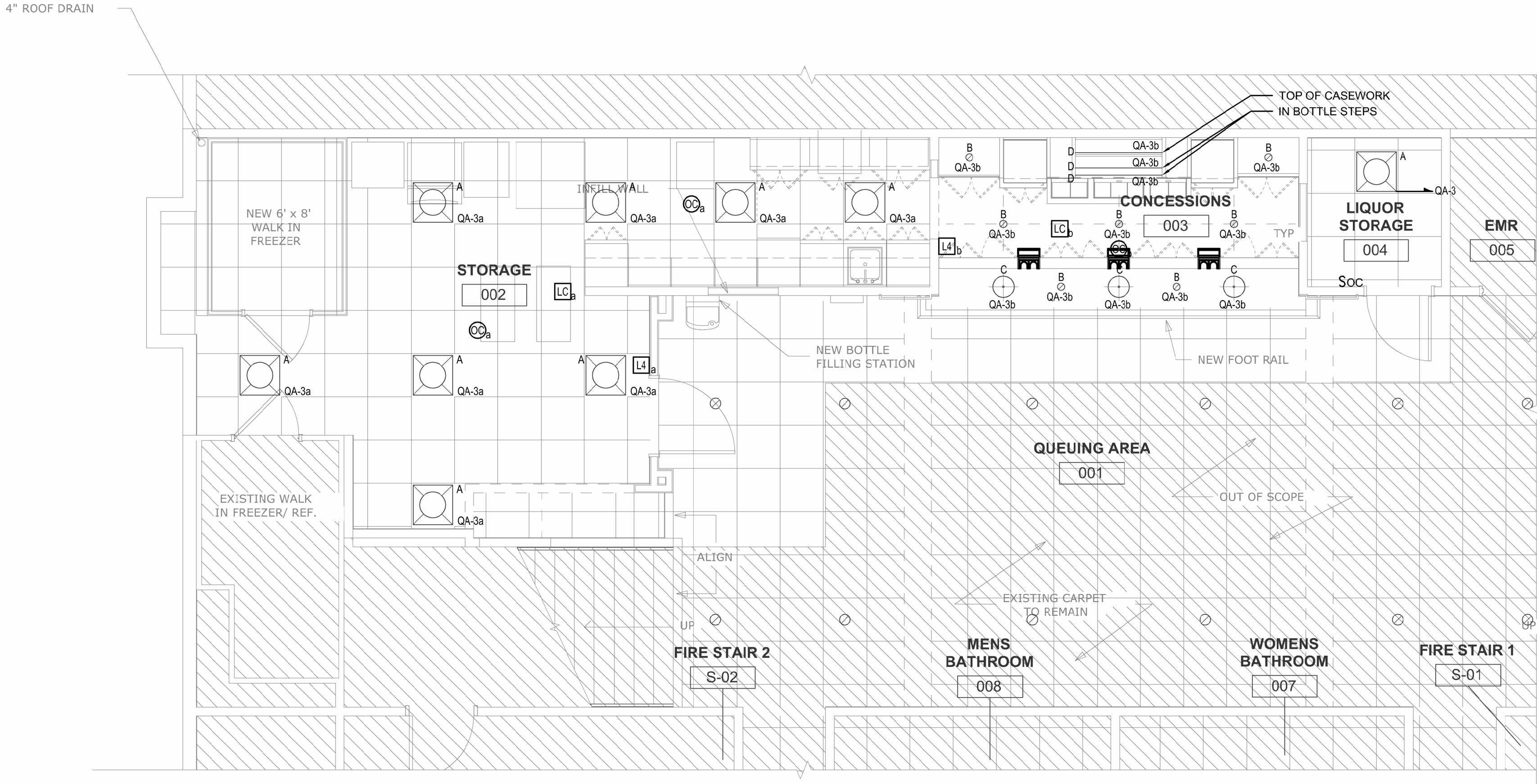
ED1.0



1 DEMO FLOOR PLAN - LIGHTING
1/4" = 1'-0"



LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	MODEL NUMBER / SERIES	VOLTS	SOURCE				NOTES
					TYPE	WATTS	LUMENS	COLOR / TEMP.	
A	2' X 2' LED	LITHONIA LIGHTING	22C72-29HE-S-UNV-L835-CD1-U	120	LED	21	2900	3500	-
B	4" DOWN LIGHT	METALUX	LD4C-10-90-35-1-D010-1-H	120	LED	10.04	1000	3500	-
C	PENDANT	HUDSON VALLEY LIGHTING	DL-01 - BURLINGTON	120	LED	-	-	-	12"DIA. X22"OAH. / CANOPY: 4.5"DIA.; AGED BRASS COLOR
D	LED TAPE LIGHT	PHILIPS	LS161 COB LED8 8.5W 930 5M 24V	120	LED	-	-	-	-



1 PROPOSED FLOOR PLAN - LIGHTING
1/4" = 1'-0"

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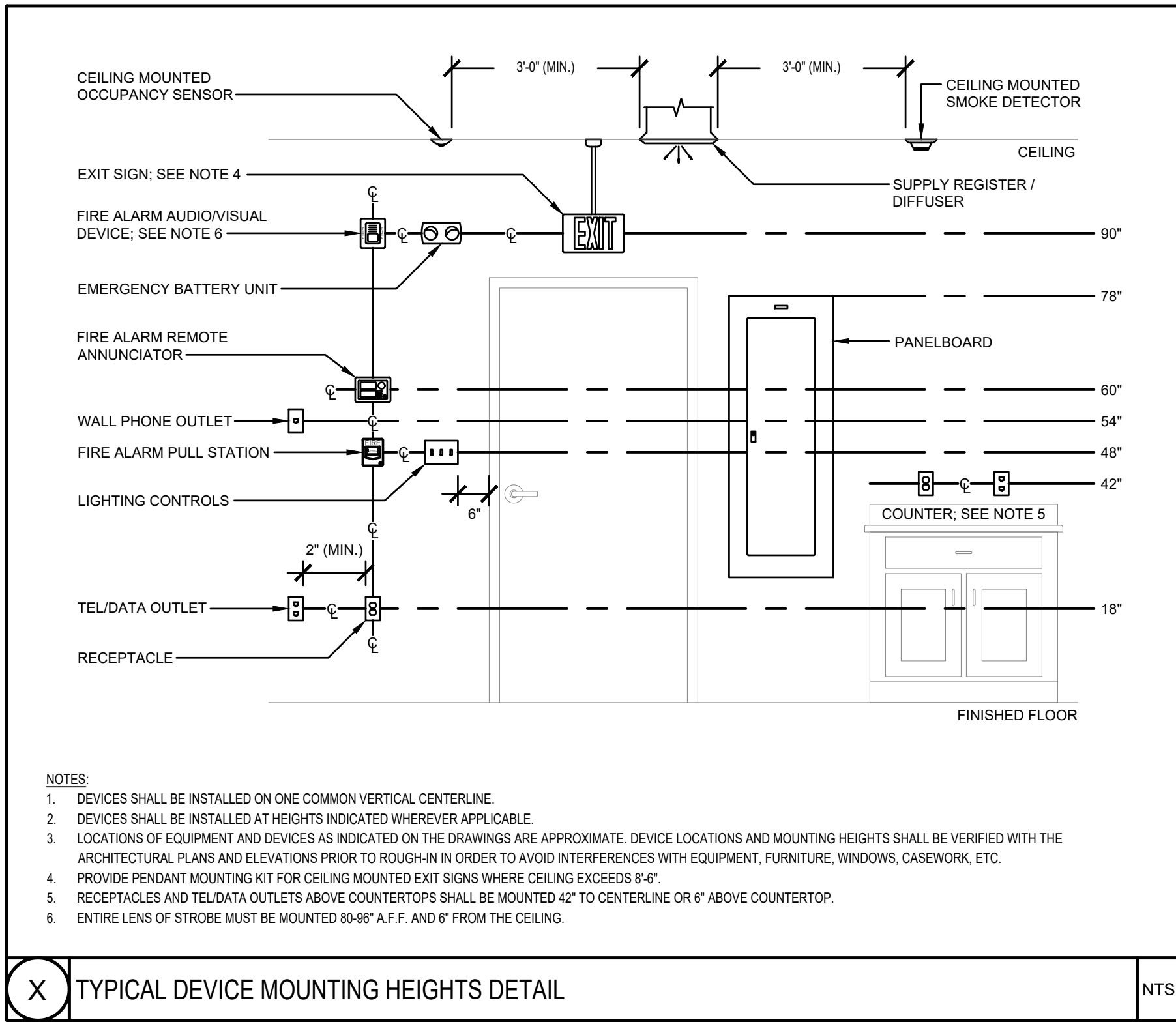
ISSUED DATE: JUNE 12, 2026

SHEET TITLE

ELECTRICAL
PROPOSED FLOOR
PLAN - LIGHTING

DRAWING NO.

E1.0

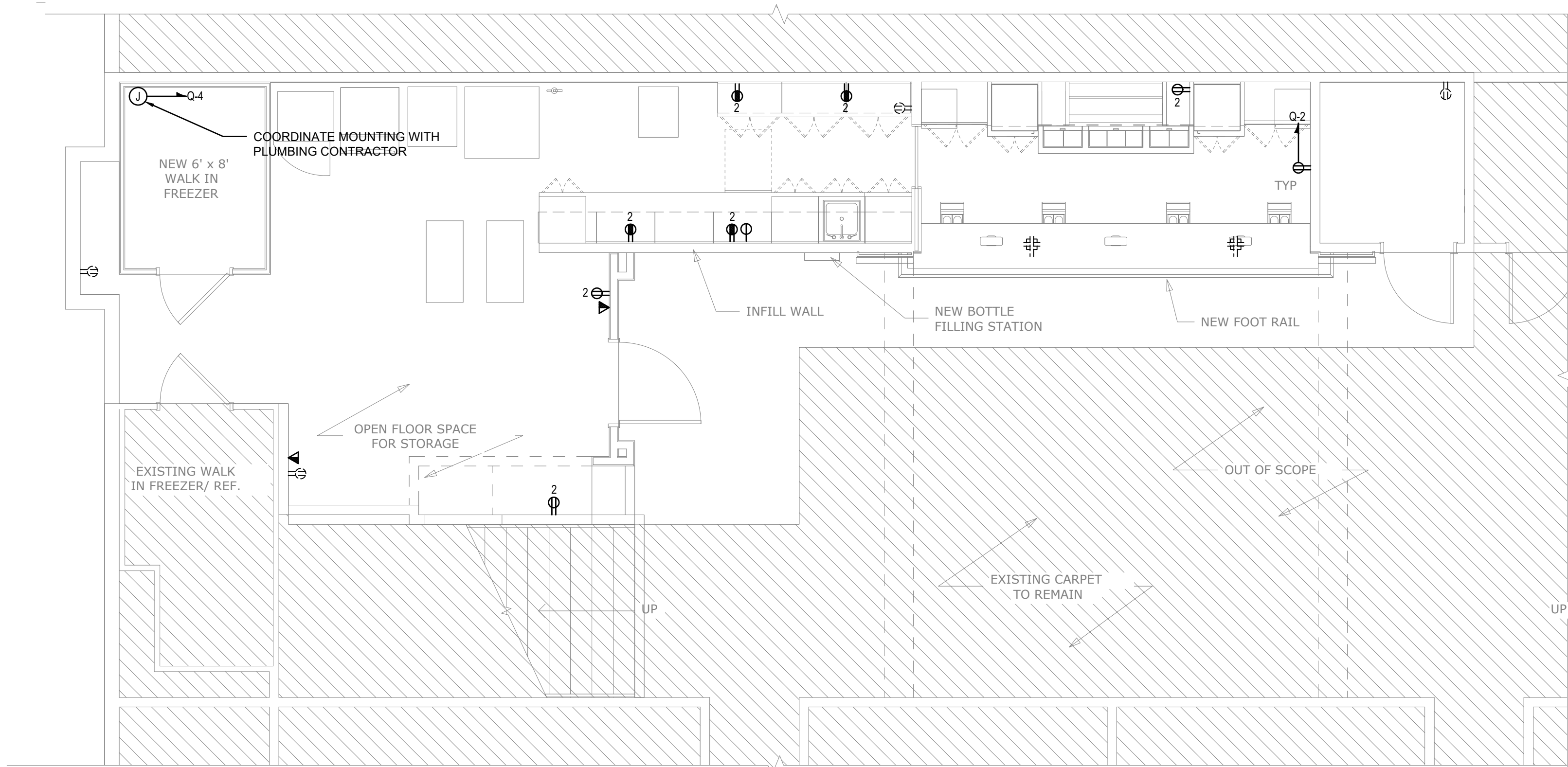


VOLT 120/208		PANEL Q										MAIN BUS FEED MOUNT SURFACE	
PHASE	3												MLO 100A
WIRE	4												
A.I.C.	-												
CKT NO	SERVICE DESCRIPTION	WIRE	BKR	POLES	A	B	C	BKR	POLES	WIRE	SERVICE DESCRIPTION	CKT NO	
1	PRETZEL	2#12, #12G	20	1				-	-	-	RECPS	2	
3	PRETZEL	2#12, #12G	20	1				-	-	-	RECIRC PUMP	4	
5	EX. LOAD	-	20	1				-	-	-	SPACE	6	
7	EX. LOAD	-	20	2							EX. LOAD	10	
11	EX. LOAD	-	20	1				60	3	-		12	
13	EX. BAS CONTROL PANEL	-	20	1				20	1	-	EX. LOWER LOBBY BEHIND BAR RECP	14	
15	EX. MARQUE LIGHTS	-	20	1				20	1	-	EX. MARQUE LIGHTS	16	
17	EX. MARQUE LIGHTS	-	20	1				20	1	-	EX. MARQUE LIGHTS	18	
19	-	-	20	1				20	1	-	EX. HANDICAP DOOR OPENER	20	
21	EX. TEMP RECEP/ JOB SITE	-	20	1				20	1	-	EX. LIGHTS BOTTOM STAIRWELL BATH	22	
23	EX. LIGHTS LOWER LEVEL NORTH EAST	-	20	1				20	1	-	EX. RECEPTACLE MAIN FLOOR NORTH	24	
25	EX. LIGHTS MEZ RAIL	-	20	1				20	1	-	EX. LOAD	26	
27	EX. RECP MEZ COLUMNS	-	20	1				-	1	-	EX. ELEVATOR CAB LTS	28	
29	EX. LIGHTS MEZ NORTH WEST	-	20	1				-	1	-	EX. ELEVATOR OIL HEATER	30	
31	EX. LOAD	-	20	1				-	1	-	EX. ELEVATOR CONTROL PANEL	32	
33	EX. LOAD	-	20	1				20	1	-	EX. LOAD	34	
35	EX. LOAD	-	20	1				20	1	-	EX. LOAD	36	
37	EX. BASEBOARD HEAT BATHROOMS	-	20	1				20	1	-	EX. FA SITWLL BOOSTER	38	
39		-	20	1				20	1	-	EX. BATH RECP & LIGHTS	40	
41	SPACE	-	-	-				20	1	-	EX. BATH RECP & LIGHTS	42	

◆ CIRCUIT BREAKER IS EXISTING TO REMAIN.
◆ INSTALL NEW BREAKER IN EXISTING SPACE.

VOLT 120/208		PANEL QA										MAIN BUS FEED MOUNT SURFACE	
PHASE	3												MLO 100A
WIRE	4												
A.I.C.	-												
CKT NO	SERVICE DESCRIPTION	WIRE	BKR	POLES	A	B	C	BKR	POLES	WIRE	SERVICE DESCRIPTION	CKT NO	
1	-	-	20	1				20	1	-	EX. RECEPTACLE LOUNGE BAR	2	
3	LIGHTING	2#12, #12G	20	1				20	1	2#12, #12G	POS SYSTEM	4	
5	-	-	20	1				20	1	-	EX. REACH IN FRIDGE	6	
7	EX. QUAD RECEP. THIS ROOM	-	20	1				20	1	2#12, #12G	BOTTLE FILLER	8	
9	REFRIGERATOR	2#12, #12G	20	1							DOUBLE ELECTRIC OVEN	10	
11	ICE MACHINE CHEST	2#12, #12G	20	1				70	3	3#4, #8G		12	
13	PROOFING CABINET	2#12, #12G	20	1								14	
15	REFRIGERATOR/COOLER	2#12, #12G	20	1				20	1	-	EX. SPARE	16	
17	-	-	20	1				20	1	-	EX. MICROWAVE	18	
19	-	-	20	1				20	1	-	EX. MEZZANINE BAR LIGHTING	20	
21	-	-	20	1				20	1	-	EX. LOUNGE BAR LIGHTING	22	
23	-	-	20	1				20	1	-		24	
25	-	-	20	1				20	1	-	EX. MICROWAVE/FRIDGE	26	
27	EX. MEZZ BAR GFI UNDER CAB	-	20	1				20	1	-	EX. EQUIPMENT RACK	28	
29	WALK-IN FREEZER CONDENSOR	2#10, #10G	30	1				20	1	-		30	
31								20	1	-		32	
33								20	1	-		34	
35	WALK-IN FREEZER EVAPORATOR	2#10, #10G	30	1				30	2	-	EX. STAIRWAY HEATER	36	
37	WALK-IN FREEZER	2#12, #12G	20	1								38	
39												40	
41	DISHWASHER	2#10, #10G	30	1				30	2	-	EX. MEZZ BAR COFFEE MAKER	42	

◆ CIRCUIT BREAKER IS EXISTING TO REMAIN.
◆ REMOVE EXISTING CIRCUIT BREAKER(S) AND REPLACE WITH NEW BREAKER.



1 PROPOSED FLOOR PLAN - POWER
1/4" = 1'-0"

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PROJECT NO. 25114
THESE DRAWINGS ARE FOR THE CONSTRUCTION OF THE PROJECT LISTED ABOVE AND ARE NOT TO BE COPIED IN ANY FORM WITHOUT THE EXPRESS WRITTEN PERMISSION OF ZDS, INC. THE GENERAL CONTRACTOR SHALL NOT SCALE DRAWINGS FOR MEASUREMENTS, BUT SHALL VERIFY AT THE SITE ALL LEVELS AND MEASUREMENTS NECESSARY FOR COMPLETE FABRICATION, ASSEMBLY AND INSTALLATION OF THE WORK. MINOR DETAILS OF THE WORK NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL BE ASCERTAINED BY THE CONTRACTOR AT THE SITE OF THE WORK, AND SHALL BE ACCOMPLISHED WITH THE INTENT OF THIS PROJECT.

NO.	DESCRIPTION	DATE

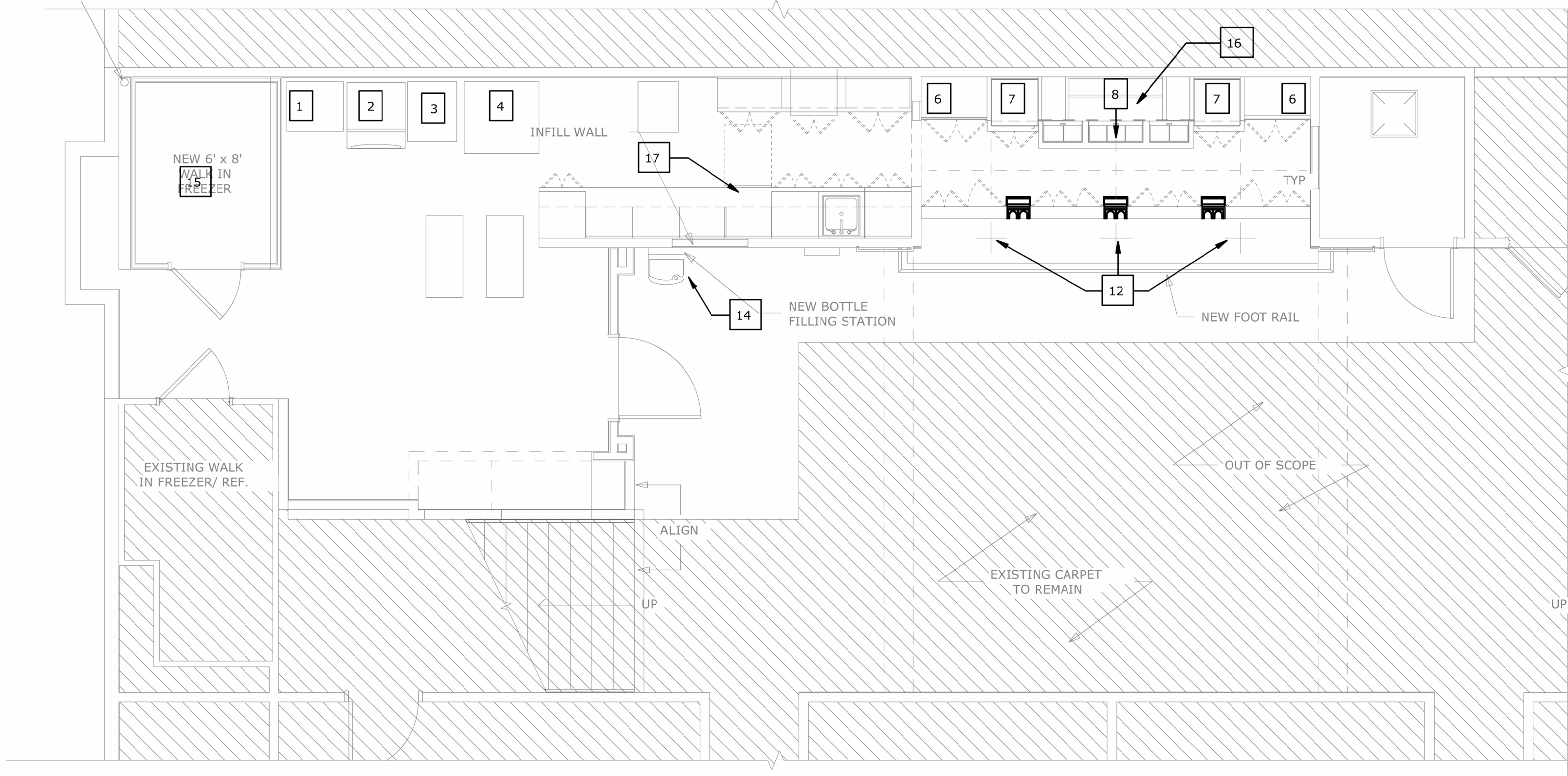
ISSUED FOR BID

ISSUED DATE: JULY 1, 2026

SHEET TITLE
ELECTRICAL PROPOSED FLOOR PLAN - POWER

DRAWING NO.
E2.0

4" ROOF DRAIN



1 PROPOSED KITCHEN PLAN - POWER
1/4" = 1'-0"

KITCHEN EQUIPMENT ELECTRICAL SCHEDULE

ITEM NO.	QUANTITY	EQUIPMENT CATEGORY	BRANCH CIRCUIT DESIGNATION	DEDICATED CIRCUIT BREAKER SIZE (AMPS-POLES)	CIRCUIT BREAKER REQUIREMENTS	BRANCH CIRCUIT WIRING	RACEWAY	CONNECTION TYPE	NEMA RECEPTACLE	VOLTS	PHASE	AMPS	KW	HP	ROUGH-IN AFF	ELEC REMARKS
1	1	REFRIGERATOR	QA-9	20A-1P	-	-	-	Ø	SIMPLEX 5-15P	120	1	9.3	.9	-	-	
2	1	ICE MACHINE CHEST	QA-11	20A-1P	-	-	-	Ø	SIMPLEX 5-15P	120	1	-	-	-	-	
3	1	PROOFING CABINET	QA-13	20A-1P	-	-	-	Ø	SIMPLEX 5-20P	120	1	-	2	-	-	
4	1	DOUBLE ELECTRIC OVEN	QA-10,12,14	70A-3P	-	-	-	?	-	120	1	51	-	-	-	
6	1	COCA-COLA REFRIGERATOR	QA-15	20A-1P	-	-	-	Ø	SIMPLEX 5-15P	120	1	.94	-	-	-	
7	1	PRETZEL MERCHANDISER	QA-3	20A-1P	-	-	-	Ø	SIMPLEX 5-15P	120	1	11.8	-	-	-	
8	1	UNDER CABINET BAR COOLER	QA-15	20A-1P	-	-	-	Ø	SIMPLEX 5-15P	120	1	2.8	-	-	-	
12	1	DUAL SCREEN POS (WORKSTATION)	QA-4	20A-1P	-	-	-	Ø	SIMPLEX 5-15P	120	1	-	-	-	-	
14	1	BOTTLE FILLER STATION	QA-8	20A-1P	-	-	-	Ø	SIMPLEX 5-15P	120	1	5	-	-	-	
15	1	WALK IN FREEZER	QA-29,31	30A-2P	-	-	-	?	-	208	1	-	-	-	-	CONNECTION AND CIRCUIT BREAKER SIZE TO BE CONFIRMED BY ELECTRICIAN.
15	1	WALK IN FREEZER	QA-33,35	30A-2P	-	-	-	?	-	208	1	-	-	-	-	CONNECTION AND CIRCUIT BREAKER SIZE TO BE CONFIRMED BY ELECTRICIAN.
15	1	WALK IN FREEZER	QA-37	20A-1P	-	-	-	?	-	120	1	-	-	-	-	CONNECTION AND CIRCUIT BREAKER SIZE TO BE CONFIRMED BY ELECTRICIAN.
16	1	FLAT SCREEN TV	Q-3	20A-1P	-	-	-	Ø	SIMPLEX 5-15P	120	1	-	-	-	7'-0"	MOUNTED AT MILL WORK
17	1	DISHWASHER	QA-40	30A-2P	-	-	-	?	SIMPLEX 5-15P	208	1	25.9	-	-	-	

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NO.	DESCRIPTION	DATE

ISSUED FOR
BID

ISSUED DATE: JUNE 12, 2026

SHEET TITLE

ELECTRICAL
PROPOSED
KITCHEN PLAN -
POWER

DRAWING NO.

E2.1

ELECTRICAL SPECIFICATIONS	
PART 1 - GENERAL	
1.01	<u>GENERAL REQUIREMENTS</u>
A. THESE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A PRICE FOR MATERIAL AND LABOR PROVISIONS.	
B. IT IS NOT INTENDED THAT THE PLANS OR SPECIFICATION SHOW OR STATE EVERY DETAILED REQUIREMENT OF THE WORK, BUT RATHER THAT THEY FURNISH ADEQUATE INFORMATION FOR AN EXPERIENCED CONTRACTOR TO PROVIDE A COMPLETELY ACCEPTABLE INSTALLATION. THE GENERAL CONDITIONS FORM A PART OF THESE SPECIFICATIONS WHETHER ATTACHED HERETO OR NOT. SHALL BE CAREFULLY EXAMINED BEFORE SUBMITTING A PROPOSAL. WHERE GENERAL CONDITIONS CLAUSES ARE REPEATED IN THIS SECTION, IT SHALL BE UNDERSTOOD AS CALLING SPECIAL ATTENTION TO THEM, OR AS A FURTHER QUALIFICATION, AND SHALL NOT BE ASSUMED AS OMITTING ANY OTHER CLAUSES. NO GENERAL CONDITIONS REFERRING TO THE WORK INCLUDED HEREIN SHALL BE CONSIDERED AS WAIVED UNLESS SPECIFICALLY STATED HEREIN.	
C. BEFORE SUBMITTING PROPOSAL, EXAMINE ALL PLANS RELATING TO THIS WORK, VERIFY ALL GOVERNING CONDITIONS AT THE SITE, BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO THE WORK OF OTHER TRADES. SUBMISSION OF A COST PROPOSAL (BID) WILL BE JUDGED AS EVIDENCE THAT THE SITE EXAMINATION HAS BEEN MADE. NO CONSIDERATION WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED FOR WORK TO BE DONE. IT BEING UNDERSTOOD THAT THE SUBMISSION OF A PROPOSAL IS AN AGREEMENT TO ALL CONDITIONS REFERRED TO HEREIN OR INDICATED ON THE PLANS.	
D. PROPOSAL MUST INCLUDE EVERYTHING REQUIRED TO PROVIDE A COMPLETE INSTALLATION AS CONTEMPLATED IN A SPECIFICATIONS AND PLANS, WHETHER SPECIFICALLY SHOWN OR SPECIFIED OR NOT. INCLUDED ARE LABOR, MATERIALS, EQUIPMENT, LIGHTS, TOOLS, SCAFFOLDING, ETC. NECESSARY TO COMPLETE INSTALLATION OF EVERYTHING DESCRIBED, SHOWN OR REASONABLY IMPLIED.	
E. ANY DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND THE ACCOMPANYING PLANS, OR THESE SPECIFICATIONS AND PLANS AND THE SPECIFICATIONS OF OTHER TRADES, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF THE BID. FAILURE TO COMPLY WITH THE ABOVE SHALL ALLOW THE ARCHITECT TO MAKE A FINAL AND BINDING DECISION AT A LATER DATE AND NO ALLOWANCE WILL BE GIVEN IF THE MORE EXPENSIVE OF THE ITEM IN QUESTION IS SELECTED.	
F. THE WORK CALLED FOR IN THESE PLANS AND SPECIFICATIONS SHALL BE COORDINATED WITH THE STRUCTURE, WORK OF ALL RELATED TRADES, AND SHALL BE SO ARRANGED THAT THERE WILL BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF ANY PART OF EACH RESPECTIVE WORK, WHEREIN IT MAY BE INTERRELATED WITH THIS CONTRACT ALL WORK CAN PROCEED IN ITS NATURAL SEQUENCE WITHOUT UNNECESSARY DELAY. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL COST AND DELAYS IN THE WORK RESULTING FROM SUBSTITUTION UNDER THIS DIVISION, INCLUDING, BUT NOT LIMITED TO, ANY CHANGES, INDECISION, INSTALLATION OR THE WORK OF OTHER TRADES.	
G. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC (EXCEPT WHERE DIMENSIONED) AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEM AND WORK, FOLLOW ARCHITECTURAL, STRUCTURAL, AND MANUFACTURER'S SHOP DRAWINGS FOR GREATER ACCURACY. CONSULT ENGINEER IN CASE OF DOUBT OR CONFLICT, UNLESS NOTED. FIXED DIMENSIONS ARE BASED ON THE PRODUCT OF ONE MANUFACTURER, VERIFY DIMENSIONS WITH THE SHOP DRAWINGS OF THE MATERIAL ACTUALLY APPROVED OR PURCHASED.	
H. EXACT LOCATION OF ALL EQUIPMENT, PANELS, PULL BOXES, FEEDERS, FIXTURES, ETC., SHALL BE APPROVED BY THE ARCHITECT, AND OWNER PRIOR TO THE INSTALLATION OF THE SAME.	
I. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS, AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ALL ELECTRICAL WORK.	
J. EXPOSED CONDUITS CAN BE INSTALLED BUT IN NO CASE SHALL BE INSTALLED LESS THAN NINE FEET ABOVE THE FINISHED FLOOR OR AS NOTED. CONDUITS INSTALLED IN THE AREA WHERE HUNG CEILING OR OTHER FURRED SPACES ARE INDICATED SHALL BE INSTALLED CONCEALED. SHOULD ANY WORK REQUIRE SUBSEQUENT MODIFICATION OR RELOCATION TO AVOID INTERFERENCE OR CONFLICTS WITH OTHER WORK, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.	
K. ANY NECESSARY ELECTRICAL SERVICE INTERRUPTIONS SHALL BE AT A TIME CONVENIENT TO THE BUILDING OWNER.	
L. ALL PENETRATIONS THROUGH SLABS AND FIRE RATED PARTITIONS SHALL BE FIRE STOPPED USING APPROVED METHOD TO MAINTAIN THE FIRE RESISTANCE RATING.	
M. THE E.C. SHALL CALL FOR A FINAL PUNCH-LIST WHEN ALL ELECTRICAL WORK IS COMPLETE. IN THE EVENT REPRESENTATIVES OF THIS OFFICE ARRIVE AT THE SITE AND DEEM WORKING NOT SUFFICIENTLY COMPLETE, NO REVIEW/PUNCH-LIST WILL OCCUR, THE E.C. WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH RESCHEDULING THE PUNCH-LIST.	
1.02	<u>SCOPE OF WORK</u>
A. WITHOUT INTENDING TO LIMIT AND/OR RESTRICT THE SCOPE OF WORK REQUIRED AND SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR, THE WORK OF THIS DIVISION SHALL, IN GENERAL, COMPRISE THE FOLLOWINGS:	
1. INSTALLATION OF NEW ELECTRICAL DISTRIBUTION SYSTEM AND PANELS.	
2. FURNISHING AND INSTALLING NEW LIGHTING FIXTURES, LAMPS, AND LIGHTING CONTROLS.	
3. FURNISHING AND INSTALLING NEW FEEDERS, CONDUITS, BRANCH CIRCUIT WIRING, ETC.	
4. FURNISHING AND INSTALLING NEW RACEWAYS, OUTLET BOXES, WIRING AND CONNECTIONS FOR LIGHTING FIXTURES, SWITCHES, AND RECEPTACLES.	
5. PROVIDE CONNECTIONS TO ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHER TRADES OR BY THE OWNER.	
6. POWER WIRING FOR ALL MOTORS, INCLUDING INSTALLING ALL REQUIRED DISCONNECT SWITCHES AND MOUNTING OF STARTERS.	
7. FURNISHING AND INSTALLING ALL TELEPHONE/DATA SYSTEM CONDUITS, SLEEVES AND BOXES.	
8. TEMPORARY LIGHT AND POWER.	
9. GROUNDING.	
10. CUTTING, CHANNELING, AND PATCHING.	
11. FIRE ALARM SYSTEM.	
1.03	<u>WORK NOT INCLUDED</u>
A. FURNISHING MOTORS, MOTOR STARTER AND CONTROL DEVICES CONNECTED TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. HOWEVER, ELECTRICAL CONTRACTOR WILL ERECT AND WIRE SAME, FURNISH AUXILIARY MOTOR DISCONNECTS AS REQUIRED BY DRAWINGS OR CODE.	
B. FINISH PAINTING.	
C. TELEPHONE/DATA WIRING AND DEVICES.	

1.04	<u>CODES, PERMITS, AND INSPECTIONS</u>
A. ELECTRICAL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE STATE ELECTRICAL CODE, LOCAL ORDINANCES, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER ALL ELECTRICAL CONSTRUCTION WORK AND THE PROJECT.	
B. NOTHING CONTAINED IN THESE SPECIFICATIONS OR PLANS SHALL BE SO CONSTRUED AS TO CONFLICT WITH ANY LOCAL, MUNICIPAL, AND NATIONAL BOARD OF THE FIRE UNDERWRITERS REGULATIONS GOVERNING THE INSTALLATION OF WORK SPECIFIED HEREIN. ALL SUCH LAWS, ORDINANCES, AND REGULATIONS, WHERE THEY APPLY TO THIS WORK, ARE HEREBY INCORPORATED INTO AND MADE A DESCRIBED HEREIN, AS INDICATED ON THE DRAWINGS, AND/OR AS SATISFIED AT NO ADDITIONAL EXPENSE TO THE OWNER.	
C. ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES SHALL BE OBTAINED, PAID FOR, AND MADE AVAILABLE AT THE COMPLETION OF THE WORK.	
D. COORDINATE ALL SERVICE WORK WITH THE LOCAL UTILITY COMPANIES. ALL WORK INCLUDING BUT NOT LIMITED TO, PRIMARY ELECTRIC DUCT BANKS, TRANSFORMER PADS, MANHOLES/ PULL BOXES, METERING, PROTECTION BOLLARDS AND TELEPHONE/CABLE TV SERVICE DUCT BANKS SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE LOCAL UTILITY COMPANIES.	
1.05	<u>GUARANTEES AND CERTIFICATIONS</u>
A. ALL WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECTS, DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF ANY/ALL TRADES RESULTING FROM THE SAME, SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR DURATION OF ONE YEAR, FROM THE DATE OF ACCEPTANCE.	
B. THE DATE OF ACCEPTANCE SHALL BE THE DATE OF THE FINAL PAYMENT FOR THE WORK OR THE DATE OF A FORMAL NOTICE OF ACCEPTANCE, WHATEVER IS EARLIER.	
C. NON-DURABLE ITEMS, SUCH AS ELECTRIC LAMPS, SHALL BE REPLACED UP TO THE DATE OF ACCEPTANCE, SUCH THAT THEY SHALL HAVE HAD NO MORE THAN 100 HOURS USE PRIOR TO THIS DATE.	
1.06	<u>SHOP DRAWINGS AND EQUIPMENT SUBMISSIONS</u>
A. PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIAL, A LIST OF THEIR MANUFACTURERS SHALL BE SUBMITTED FOR APPROVAL.	
B. PRIOR TO ASSEMBLING OR INSTALLING THE WORK, CATALOG INFORMATION AND FACTORY ASSEMBLY DRAWINGS, AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL FIXTURES, DEVICES, DEVICES AND ITEMS OF EQUIPMENT, SHALL BE SUBMITTED FOR APPROVAL.	
C. FIELD INSTALLATION DRAWINGS AS REQUIRED TO EXPLAIN FULLY ALL PROCEDURES INVOLVED IN ERECTING, MOUNTING AND CONNECTING ALL ITEMS OF EQUIPMENT.	
D. NO EQUIPMENT SHALL BE FABRICATED, DELIVERED, ERECTED, OR RECONNECTED THAN FROM DRAWINGS APPROVED BY THE ENGINEER. SHOP DRAWING IN THE NUMBER DIRECTED SHALL BE SUBMITTED FOR THE FOLLOWING:	
1. LIGHTING FIXTURES AND CONTROL DEVICES	
2. WIRING DEVICES AND PLATES.	
3. CONDUIT, BOXES, AND FITTINGS.	
4. WIRE AND CABLE	
5. PANEL BOARDS AND CIRCUIT BREAKERS	
6. SAFETY SWITCHES AND MOTOR STARTERS	
7. FIRE ALARM SYSTEM INCLUDING BATTERY CALCULATIONS AND WIRING DIAGRAMS.	
E. IT SHALL BE UNDERSTOOD THAT APPROVAL OF DRAWINGS WILL NOT BIND THE ENGINEER OR THE OWNER TO THE FINAL ACCEPTANCE OF SUCH EQUIPMENT AS THE COMPLETED INSTALLATION AND TEST OF EQUIPMENT AS A WHOLE MUST BE PROVIDED AND GUARANTEED HEREIN AS SPECIFIED.	
1.07	<u>SAMPLES</u>
A. UPON REQUEST BY ARCHITECT OR OWNER, SUBMIT FOR APPROVAL ONE SAMPLE OF EACH OF THE FOLLOWING:	
1. EACH TYPE OF LIGHTING FIXTURE.	
2. EACH TYPE OF WIRING DEVICE.	
3. EACH TYPE OF WIRING DEVICE PLATE.	
1.08	<u>AS-BUILT DRAWINGS</u>
A. THE CONTRACTOR SHALL, WITHIN 15 DAYS OF THE COMPLETION OF THE PROJECT AND PRIOR TO REQUESTING FINAL PAYMENT, SUBMIT AS-BUILT DRAWINGS OF THE ACTUAL INSTALLATION OF THE ELECTRICAL WORK, THREE (3) PAPER SETS OF DRAWINGS, SAME SCALE AS THE DESIGN SET UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS, AND THREE (3) CD DISKS WITH AutoCAD 2007 OR LATER VERSIONS OF THE AS-BUILTS ARE REQUIRED FOR SUBMISSION TO THE ARCHITECT ENGINEER.	
1.09	<u>TESTS</u>
A. BEFORE AN APPLICATION FOR THE FINAL ACCEPTANCE OF THE WORK WILL BE CONSIDERED, ALL TESTS DEEMED NECESSARY BY THE ARCHITECT TO SHOW PROPER EXECUTION OF THE WORK SHALL HAVE BEEN PERFORMED AND COMPLETED IN THE PRESENCE OF AN ARCHITECT'S REPRESENTATIVE. SCHEDULE OF ALL TESTING PROCEDURES SHALL BE ARRANGED TO SUIT THE CONVENIENCE OF THE ARCHITECT.	
B. ANY DEFECTS OR DEFICIENCIES DISCOVERED IN ANY OF THE ELECTRICAL WORK SHALL BE CORRECTED.	
1.10	<u>IDENTIFICATION</u>
A. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TYPEWRITTEN DIRECTORIES BEHIND TRANSPARENT PLASTIC COVERS IN METAL FRAMES, IN ALL NEW AND EXISTING PANELS INDICATING TYPE AND LOCATION OF LOAD BEING SERVED BY INDIVIDUAL CIRCUIT BREAKERS.	
B. ALL PARTS OF EQUIPMENT, SUCH AS PANELS, JUNCTION BOXES, SAFETY SWITCHES, MOTOR STARTER, CIRCUIT BREAKERS, CONDUCTORS AND SIMILAR ITEMS SHALL BE IDENTIFIED BY NAME, AT SUPPLY END, "LOAD SUPPLIED", AND AT LOAD END "LOAD SUPPLIED FROM".	
PART 2 - PRODUCTS	
2.01	<u>EQUIPMENT AND MATERIALS</u>
A. ALL EQUIPMENT AND MATERIALS FOR PERMANENT INSTALLATION SHALL BE THE PRODUCTS OF RECOGNIZED MANUFACTURERS AND SHALL BE NEW.	
B. NEW EQUIPMENT AND MATERIALS SHALL:	
1. WHERE NORMALLY SUBJECTED TO UNDERWRITER'S LABORATORY INC. LISTING OR LABELING SERVICES, BE SO LISTED OR LABELED.	
2. BE WITHOUT BLEMISH OR DEFECT.	
3. NOT TO BE USED FOR TEMPORARY LIGHT AND POWER PURPOSES WITHOUT ARCHITECT'S AUTHORIZATION.	
4. BE IN ACCORDANCE WITH THE LATEST APPLICABLE N.E.M.A. STANDARD.	
5. BE APPROVED BY BUILDING MANAGER OR OWNER.	

C. FOR ITEMS WHICH ARE TO BE INSTALLED BUT NOT PURCHASED AS PART OF THE ELECTRICAL WORK, THE ELECTRICAL WORK SHALL INCLUDE:	
1. THE COORDINATION OF THEIR DELIVERY.	
2. THEIR FIELD MAKE-UP AND INTERNAL WIRING AS MAY BE NECESSARY FOR THEIR OPERATION.	
D. ELECTRICAL RACEWAY AND SUPPORTING SYSTEMS SHALL BE FURNISHED AND INSTALLED COMPLETE, WITH ALL MATERIALS, FITTINGS, CONNECTIONS AND ACCESSORIES NECESSARY TO PROVIDE IN EACH INSTANCE A COMPLETE OPERATING INSTALLATION, AS DESCRIBED HEREIN, AS INDICATED ON THE DRAWINGS, AND/OR AS APPROVED BY THE BUILDING MANAGER OR OWNER.	
E. THE DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, FITTINGS, AND BOXES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE JOB CONDITIONS INCLUDING STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL HIS WORK AND ARRANGE THE SAME ACCORDINGLY, FURNISHING SUCH FITTINGS, BOXES AND SIMILAR ITEMS AS MAY BE REQUIRED TO MEET SUCH CONDITIONS.	
2.02	<u>WIRING MATERIALS</u>
A. WIRE AND CABLE SHALL BE COPPER, RATED FOR 600 VOLTS, TYPE THIN FOR BRANCH CIRCUITS AND XHHW FOR FEEDERS.	
B. WIRE #10 AWG AND SMALLER SHALL BE SOLID, WIRE #8 AWG AND LARGER SHALL BE STRANDED.	
C. WIRING SHALL BE CONSISTENTLY COLOR CODED THROUGHOUT. FOR 120/208 VOLT SYSTEMS, UTILIZE RED, BLUE, BLACK FOR LINE (PHASE) CONDUCTORS AND WHITE FOR NEUTRAL. CONDUCTOR, SWITCH LEG SHALL BE SEPARATELY IDENTIFIED. GROUND CONDUCTOR SHALL BE GREEN. FOR 277/480V SYSTEMS, UTILIZE BROWN, ORANGE, YELLOW FOR LINE (PHASE) CONDUCTORS, AND GREY FOR NEUTRAL CONDUCTOR. GROUND CONDUCTOR SHALL BE GREEN WITH YELLOW TRACER.	
D. MINIMUM SIZE:	
1. LIGHTING AND POWER: #12 AWG, UNLESS OTHERWISE INDICATED.	
2. CONTROL: #14 AWG.	
3. 120 VOLT CIRCUITS OVER 100 FEET IN LENGTH AND 277 VOLT CIRCUITS OVER 200 FEET IN LENGTH FROM THE POINT OF SUPPLY TO THE FIRST OUTLET SHALL BE #10 AWG.	
E. SPLICES IN BRANCH CIRCUIT WORK SHALL BE MADE BY MEANS OF TYPE "R" "SCOTCHLOCK" ELECTRICAL TYPE.	
F. ELECTRICAL INSULATION TAPE SHALL BE VINYL PLASTIC TYPE WITH PRESSURE ADHESIVE "SCOTCH" ELECTRICAL TYPE.	
G. BRANCH CIRCUITRY NUMBERS INDICATED ON THE DRAWINGS ON MULTI-CIRCUIT HOMERUNS ARE FOR IDENTIFICATION OF DEVICES OR EQUIPMENT THEY ARE CONNECTED TO AND DO NOT NECESSARILY REFER TO PANELBOARD CIRCUIT NUMBERS. ASSIGNMENT OF BRANCH CIRCUIT NUMBERS SHALL BE PART OF THIS WORK AND INDICATED ON PANEL DIRECTORIES. BRANCH CIRCUITS SHALL BE CONNECTED TO CIRCUITS ON PANELBOARDS SO AS TO SECURE A REASONABLE BALANCE ON THE THREE PHASES. WHERE MORE THAN ONE CIRCUIT WITH A COMMON NEUTRAL IS INSTALLED IN THE SAME CONDUIT, EACH PHASE WIRE SHALL BE CONNECTED TO A DIFFERENT LEG OF THE SYSTEM.	
H. ALL CONDUCTORS SHALL BE COLOR CODED THROUGHOUT AND NUMBERED AND TAGGED AT EACH JUNCTION BOX, PULL BOX, PANEL, AND DEVICE WITH SUITABLE FIREPROOF TAGS OR ADHESIVE IDENTIFICATION BANDS.	
2.03	<u>CONDUITS AND RACEWAYS</u>
A. LIQUID TIGHT FLEXIBLE, GALVANIZED STEEL CONDUIT WITH CONTINUOUS COPPER BONDING CONDUCTOR, SHALL BE USED FOR CONNECTIONS TO MOTORS AND AT OTHER LOCATIONS WHERE VIBRATION MOVEMENT IS ENCOUNTERED.	
B. UNLESS OTHERWISE INDICATED OR SPECIFIED ALL WIRING SHALL BE INSTALLED CONCEALED IN CEILINGS, WALLS, SLABS, PIPE CHASES AND FURRED SPACES WHENEVER POSSIBLE.	
C. CONDUIT AND FITTINGS SHALL CONFORM TO LATEST ACCEPTABLE STATE CODE AND ALL OTHER CODES HAVING JURISDICTION.	
D. CONDUIT SHALL BE 3/4" TRADE SIZE MINIMUM, UNLESS OTHERWISE INDICATED OR SPECIFIED.	
E. ALL CONDUITS WHICH ARE TO REMAIN EMPTY FOR FUTURE INTRODUCTION OF CONDUCTORS SHALL BE PROVIDED WITH A PULL LINE WITH IDENTIFICATION BAND AT BOTH ENDS.	
F. STEEL JACKETED METAL CLAD CABLE CAN BE USED FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY IN VOIDS OF CEILING AND PARTITIONS, PROVIDED THAT THIS TYPE OF WIRING IS ACCEPTABLE TO THE LOCAL BUILDING OFFICIAL OR HIS REPRESENTATIVE.	
G. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL CONFORM TO UL 6. FITTINGS SHALL BE THREADED.	
H. INTERMEDIATE METALLIC CONDUIT (IMC) SHALL CONFORM TO UL 1242. FITTINGS SHALL BE THREADED.	
I. ELECTRICAL METALLIC TUBING (EMT) SHALL CONFORM TO UL 797. FITTINGS SHALL BE GLAND AND RING COMPRESSION TYPE.	
J. FLEXIBLE METALLIC CONDUIT SHALL CONFORM TO UL1. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL CONFORM TO UL 360.	
K. ALL CONDUIT FITTINGS AND CONNECTORS SHALL BE STEEL WITH INSULATED THROATS. DIE-FORMED ZINC FITTINGS ARE NOT ACCEPTABLE. BUSHINGS SHALL BE PROVIDED AT ALL CONDUIT TERMINATIONS. BUSHINGS LARGER THAN 1" SHALL BE GROUNDING TYPE. PVC BUSHINGS MAY BE UTILIZED ONLY FOR 3/4" BRANCH CIRCUIT CONDUITS TERMINATING AT PANELBOARDS.	
2.04	<u>JUNCTION BOXES</u>
A. JUNCTION BOX AND PULL BOXES SHALL BE PROVIDED WHERE INDICATED OR SPECIFIED AND WHERE NECESSARY TO FACILITATE THE INSTALLATION OF EQUIPMENT OR WIRING.	
B. ALL BOXES SHALL BE SIZED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE.	
2.05	<u>OUTLET BOXES</u>
A. OUTLET, PULL AND JUNCTION BOXES SHALL BE FABRICATED FROM STEEL AND CONFORM TO UL 50, UL 514, AND NEMA OS1. BOXES FOR INTERIOR LOCATIONS SHALL BE CODE GAUGE, GALVANIZED SHEET STEEL.	
B. BOXES SHALL CONTAIN SUITABLE KNOCKOUTS. BARRIERS SHALL BE FURNISHED AS REQUIRED BY CODE.	
C. BOXES SHALL BE SIZED AS REQUIRED BY CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. THE MINIMUM BOX SIZE SHALL BE 4" SQUARE BE 1 1/2" DEEP. COVERS GREATER THAN 50LBS. SHALL BE DIVIDED INTO MULTIPLE SECTIONS.	

D. WHERE REQUIRED AND APPROVED BY THE ENGINEER, EXTRA DEEP OR EXTRA SHALLOW OUTLET BOXES SHALL BE USED TO FACILITATE THE INSTALLATION OF THE CONDUIT SYSTEM.	
2.06	<u>FASTENINGS, SUPPORTS, AND HANGERS</u>
A. ALL PARTS OF THE ELECTRICAL INSTALLATION SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING CONSTRUCTION USING APPROVED CLAMP SCREWS WITH THE INSERTS OF EXPANSION ANCHORS, EXPANSION BOLTS AND TOGGLE BOLTS. "IN NO CASE SHALL THE HUNG CEILING MEMBERS OR WIRES BE USED TO SUPPORT CONDUIT".	
B. ALL FASTENING, SUPPORTS, CLAMPS, ANCHORS, AND SIMILAR ITEMS SHALL BE OF TYPE SUITABLE FOR THE PURPOSE.	
2.07	<u>WIRING DEVICES</u>
A. ALL DEVICES SHALL BE SPECIFICATION GRADE, U.L. APPROVED.	
B. SINGLE POLE SWITCH, 20 AMP, 120/277 VOLTS. HUBBELL OR APPROVED EQUAL.	
C. RECEPTACLE, 20 AMP, 2 POLE, 3 WIRE DUPLEX, 125 VOLT, GROUND TYPE, HUBBELL OR APPROVED EQUAL.	
D. COLOR AND TYPE OF ALL DEVICE PLATES SHALL BE APPROVED BY ARCHITECT PRIOR TO PURCHASE/INSTALLATION.	
2.08	<u>GROUNDING</u>
A. ALL ENCLOSURES AND NON CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS AND EQUIPMENT GROUND BUSES SHALL BE EFFECTIVELY GROUNDED TO THE BUILDING GROUNDING SYSTEMS THROUGH THE SYSTEM GROUND CONDUCTORS. METALLIC CONDUITS AND OTHER RACEWAYS AND ENCLOSURES FOR CONDUCTORS SHALL BE METALLIC ALLOY JOINED TOGETHER INTO A CONTINUOUS ELECTRICAL CONDUCTOR, AS TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.	
B. GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT.	
2.09	<u>LIGHTING FIXTURES</u>
A. ALL LIGHTING FIXTURES SHALL COMPLY WITH THE STATE ELECTRIC CODE AND SHALL BE U.L. APPROVED.	
B. ALL LIGHTING FIXTURES SHALL BE APPROVED PRIOR TO PURCHASE.	
C. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH NECESSARY COMPONENTS, ACCESSORIES, AND LAMPS OF CORRECT TYPE AND RATING AS INDICATED ON ELECTRICAL DRAWINGS.	
D. FIXTURES SHALL BE CAREFULLY SUPPORTED AND ALIGNED WITH NECESSARY HANGERS, SUPPORTING MEMBERS, AND FRAMES FOR PROPER INSTALLATION, ALL AS REQUIRED AND AS APPROVED.	
E. ALL FIXTURES SHALL BE PROPERLY WIRED AND CONNECTED TO BRANCH CIRCUITS, TESTED AND LEFT READY FOR OPERATION.	
F. FOR TYPE, MAKE, AND QUANTITIES OF LIGHTING FIXTURES REQUIRED, SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS.	
G. FIXTURES AND/OR FIXTURE OUTLET BOXES SHALL BE PROVIDED WITH HANGERS TO ADEQUATELY SUPPORT THE COMPLETE WEIGHT OF THE FIXTURE. PROVIDE SUPPLEMENTAL SUPPORTS PER ALL LOCAL AND STATE CODES.	
H. ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND SOLID STATE ELECTRONIC ENERGY SAVING CLASS "P" BALLASTS.	
I. THE E.C. SHALL BE RESPONSIBLE FOR THE COST OF ALL PROGRAMMING AND COMMISSIONING OF THE LIGHTING CONTROLS AND LIGHTING CONTROLS SYSTEM(S). PROGRAMMING AND COMMISSIONING SHALL BE PERFORMED BY THE LIGHTING CONTROLS MANUFACTURER. THE E.C. SHALL BE RESPONSIBLE FOR THE COST OF PROVIDING (4) HOURS OF TRAINING BY THE LIGHTING CONTROLS MANUFACTURER TO THE TENANT. ALL LIGHTING CONTROLS SHALL BE FULLY PROGRAMMED AT TIME OF FINAL PUNCH LIST.	
2.10	<u>TELEPHONE SYSTEM</u>
A. PROVIDE EMPTY CONDUIT WITH PULL LINE 3/4" MINIMUM AT EACH TEL/DATA OUTLET LOCATION. EXTEND IT UP TO 12" ABOVE HUNG CEILING AND TERMINATE WITH PLASTIC BUSHING.	
B. PROVIDE 5/8" THICK, 4'-0" WIDE AND 8'-0" HIGH FIRE RETARDANT PLYWOOD BACKBOARD IN TELEPHONE CLOSET. COORDINATE SIZE WITH OWNER'S TELEPHONE SYSTEM VENDOR.	
C. ALL TELEPHONE/DATA WIRING, JACKS, COVERPLATES, PUNCH DOWN BLOCKS, ETC., ARE FURNISHED AND INSTALLED BY OWNER'S PRIVATE VENDOR.	
2.11	<u>PANEL BOARDS</u>
A. PANEL BOARDS SHALL CONSIST OF FACTORY COMPLETED DEADFRONT ASSEMBLIES OF BACK PANS, MAIN BUSES, OVER CURRENT AND SWITCHING UNITS, SHEET METAL CABINETS AND TRIMS. THEY SHALL BE SO DESIGNED THAT SWITCHING AND OVER CURRENT DEVICES CAN BE REPLACED WITHOUT DISTURBING ADJACENT UNITS AND WITHOUT REMOVING THE MAIN BUS CONNECTORS, SO THAT CIRCUITS MAY BE CHANGED WITHOUT MACHINING, DRILLING, OR TAPPING.	
B. BUS BARS FOR THEIR MAINS SHALL BE OF COPPER HAVING CURRENT CAPACITIES AS INDICATED AND SIZED FOR SUCH CAPACITIES IN ACCORDANCE WITH UNDERWRITER LABORATORY STANDARDS. UNLESS OTHERWISE NOTED, FULL SIZE NEUTRAL BARS SHALL BE INCLUDED. BUS BAR TAPS FOR PANELS WITH SINGLE POLE BRANCHES SHALL BE ARRANGED FOR SEQUENCE PHASING OF THE BRANCH CIRCUIT DEVICES. BUSHING SHALL BE BRACED THROUGHOUT TO CONFORM TO INDUSTRY STANDARD PRACTICE GOVERNING SHORT CIRCUIT STRESSES IN PANELBOARDS. PHASE BUSHING SHALL BE FULL HEIGHT WITHOUT REDUCTION.	
C. A GROUND BUS SHALL BE PROVIDED FOR EACH PANEL. EACH GROUND BUS SHALL BE OF THE SAME MATERIAL AS THE PHASE AND NEUTRAL BUSES.	
D. PANEL BOARDS SHALL COMPLY WITH THE FOLLOWING INDUSTRY STANDARDS:	
1. UL STANDARDS	
a. PANEL BOARDS - UL67	
b. CABINET & BOXES - UL50	
2. NEMA STANDARD - PB1	
E. CIRCUIT BREAKERS FOR PANEL OR INDIVIDUAL MOUNTING SHALL BE MOLDED CASE TYPE, QUICK-MAKE, QUICK-BREAK, OR MANUAL OR AUTOMATIC OPERATION.	
F. AMPERE RATING AND NUMBER OF POLES SHALL BE AS INDICATED ON THE DRAWINGS.	
G. BREAKERS SHALL BE TYPE AS MANUFACTURED BY SQUARE D OR APPROVED EQUAL. MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY SHALL MATCH EXISTING SYSTEM, BUT IN NO CASE SHALL BE LESS THAN 22,000 SYM RMS AMPERES.	

2.12	<u>FIRESTOPPING, SMOKEPROOFING AND WATERPROOFING</u>
A. PROVIDE FIRESTOP OR SMOKESTOP BETWEEN SLEEVES AND CONDUIT MANUFACTURED BY BIO FIRE SHIELD, INC., OR DOW CORNING CORP. AS FOLLOWS:	
1. DOW CORNING SILICONE RTV FOAM.	
2. DOW CORNING 96-981 RTV SILICONE ADHESIVE SEALANT.	
3. MINERAL FIBER BOARD, MATTING AND PUTTY.	
B. PROVIDE WATERPROOFING OF ALL MATERIALS WHICH PENETRATE A FLOOR, EXTERIOR WALL SLAB OR ROOF. ALL SLEEVES SHALL EXTEND A MINIMUM OF 3 INCHES ABOVE FLOOR OR ROOF.	

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25114

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REVISIONS

NO.	DESCRIPTION	DATE

ISSUED FOR BID

ISSUED DATE:

JULY 1, 2026

SHEET TITLE

ELECTRICAL SPECIFICATIONS

DRAWING NO.

E3.0

PLOT CREATED: 5/14/2026 4:44:08 PM

FIRE ALARM SYSTEM

FIRE ALARM SYSTEM:
ALL NOTIFICATION DEVICES SHALL BE MOUNTED 80" AFF, UNLESS OTHERWISE NOTED. THE FOLLOWING DESIGNATIONS SHALL APPLY TO ALL FIRE ALARM DEVICES:

AC = ABOVE CEILING
C = CEILING MOUNTED
LF = LOW FREQUENCY
WG = WIRE GUARD
WP = WEATHERPROOF

FMANUAL PULL STATION, MOUNTED 48" AFF

KACCESS FEATURE-FIRE DEPARTMENT KEY REPOSITORY.

RINTERMEDIATE RELAY, PROVIDE AS NEEDED.

ARADIO MASTER BOX ANTENNA, MOUNT AT HIGHEST POINT ON BUILDING EXTERIOR.

FAAFIRE ALARM ANNUNCIATOR

FACFIRE ALARM COMMUNICATOR

FPCFIRE PUMP CONTROLLER

BATTBATTERY CABINET

FACPFIRE ALARM CONTROL PANEL

FATCFIRE ALARM TERMINAL CABINET

FAGMFIRE ALARM GRAPHIC MAP

NACNOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY SIZE PER MANUFACTURERS SYSTEM CALCULATIONS.

BDA BI-DIRECTIONAL AMPLIFIER SYSTEM

EVACVOICE EVACUATION CONTROL UNIT

SCSFIRE FIGHTER SMOKE CONTROL STATION

ESRELEVATOR STATUS ANNUNCIATOR

GANNGENERATOR REMOTE ANNUNCIATOR

S SMOKE DETECTOR/SENSOR - BASIC SHAPE ORIENTATION NOT TO BE CHANGED.

SS SMOKE DETECTOR - SINGLE STATION, 120V WITH BATTERY BACKUP.

S DUCT MOUNTED SMOKE DETECTOR, INSTALLED BY MECHANICAL CONTRACTOR, WIRED AND FURNISHED BY ELECTRICAL CONTRACTOR.

SSBSOUNDER BASE

SBRBEAM SMOKE DETECTOR RECEIVER.

SBTBEAM SMOKE DETECTOR TRANSMITTER.

H HEAT DETECTOR/SENSOR - BASIC SHAPE ORIENTATION NOT TO BE CHANGED.

HRHEAT DETECTOR/SENSOR, RATE-OF-RISE.

HTHEAT DETECTOR/SENSOR, FIXED TEMPERATURE (135°) F.

HTHEAT DETECTOR/SENSOR, FIXED TEMPERATURE (190°) F.

HTFHEAT DETECTOR/SENSOR, COMBINATION RATE-OF-RISE AND FIXED TEMPERATURE (135°) F.

CO CARBON MONOXIDE DETECTOR

CO2 CARBON DIOXIDE DETECTOR

SCOCO SMOKE/CARBON MONOXIDE DETECTOR COMBINATION

SR SMOKE/HEAT DETECTOR/SENSOR COMBINATION

SHTCO SMOKE/HEAT DETECTOR/CARBON MONOXIDE DETECTOR

15cd VISIBLE ONLY (STROBE) - CEILING MOUNT
CD=CANDELA RATING/SETTING

15cd VISIBLE ONLY (STROBE) - WALL MOUNT
CD=CANDELA RATING/SETTING

THORN ONLY

FMINI-HORN

S SPEAKER ONLY, WALL MOUNT

15cd Z COMBINATION HORN/VISIBLE
CD= CANDELA RATING/SETTING

15cd Z COMBINATION SPEAKER/VISIBLE
CD= CANDELA RATING/SETTING

RI REMOTE ALARM INDICATOR; CEILING MOUNT

RI REMOTE ALARM INDICATOR; WALL MOUNT

ROTATING BEACON

F FIRE BELL, FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR

RTS REMOTE ALARM INDICATING AND TEST SWITCH; MOUNTED 7'-0" AFF.

ADM ADDRESSABLE OUTPUT CONTROL MODULE

AIM ADDRESSABLE INPUT MONITOR MODULE

AIM# ADDRESSABLE INPUT/OUTPUT MODULE. # DENOTES NUMBER OF INPUTS AND OUTPUTS.

M ADDRESSABLE OUTPUT CONTROL MODULE

MB FIRE ALARM MASTER BOX

DH MAGNETIC DOOR HOLD OPEN DEVICE

WF FLOW SWITCH (WATER), FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.

VS TAMPER SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.

PS PRESSURE SWITCH, FURNISHED AND INSTALLED BY FIRE PROTECTION SUBCONTRACTOR, WIRED BY THE ELECTRICAL SUBCONTRACTOR.

DK FIRE ALARM DRILL KEY

1 DEMO FLOOR PLAN - FIRE ALARM
1/4" = 1'-0"

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REVISIONS

NO.	DESCRIPTION	DATE

ISSUED FOR BID

ISSUED DATE:

JULY 1, 2026

SHEET TITLE

ELECTRICAL FLOOR PLAN - FIRE ALARM

DRAWING NO.

FA1.0

BER #:26037

2.17 FIRE ALARM SYSTEM

A. DESCRIPTION:

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND PLACE IN OPERATING CONDITION, A COMPLETE FIRE ALARM SYSTEM AS SPECIFIED IN THIS SECTION, TO INCLUDE THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS AND THE PERFORMANCE OF ALL OPERATIONS ASSOCIATED WITH THE INSTALLATION OF THE FIRE ALARM SYSTEM, AS SHOWN ON THE CONTRACT DRAWINGS AND HEREIN SPECIFIED.
2. THE COMPLETE SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE NATIONAL FIRE SAFETY CODE, THE (ADA) AMERICAN DISABILITIES ACT, THE NATIONAL ELECTRICAL CODE, REQUIREMENTS, AND ALL THE REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT.
3. THE REQUIREMENTS OF THE GENERAL CONDITIONS AND THE SUPPLEMENTARY CONDITIONS OF THE CONTRACT DOCUMENTS SHALL APPLY TO ALL WORK SPECIFIED IN THIS SECTION.
4. THE WORK COVERED UNDER THIS SECTION OF THE CONTRACT SPECIFICATIONS SHALL BE COORDINATED WITH ALL OTHER WORK SPECIFIED IN THE OTHER SECTIONS OF THE CONTRACT SPECIFICATIONS.
5. EQUIPMENT SHALL BE MANUFACTURED BY NOTIFIER, OR FIRE-LITE.
6. THE FIRE ALARM SYSTEM DESCRIBED HEREIN AND AS SHOWN ON THE PLANS, SHALL BE WIRED, CONNECTED, TESTED AND LEFT IN FIRST CLASS OPERATING CONDITION. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE PROPER CONTROL EQUIPMENT, CONTROL INTERFACE ANNUNCIATORS, ALARM INITIATING DEVICES, ALARM NOTIFICATION APPLIANCES, WIRING, TERMINATIONS, ELECTRICAL BOXES, AND ALL OTHER NECESSARY MATERIALS FOR A COMPLETE OPERATING SYSTEM.
7. THE FIRE ALARM SYSTEM SHALL BE A MICROPROCESSOR - BASED SYSTEM ALLOWING FOR EDITING OF THE SOFTWARE PROGRAM FOR CHANGES IN SYSTEM OPERATION. THE SYSTEM SHALL BE CAPABLE OF ON-SITE PROGRAMMING TO ACCOMMODATE SYSTEM CHANGES AND/OR SYSTEM EXPANSIONS. ALL SOFTWARE OPERATIONS SHALL BE STORED IN NON-VOLATILE FLASH PROM MEMORY. LOSS OF THE SYSTEMS PRIMARY AND/OR SECONDARY POWER SOURCES SHALL NOT RESULT IN A LOSS OF THE SYSTEM SOFTWARE PROGRAMS. FIELD PROGRAMMING SHALL NOT BE LOST IN THE EVENT OF MAIN AND/OR BATTERY POWER LOSS.
8. FULL FLEXIBILITY FOR SELECTIVE INPUT-OUTPUT CONTROL FUNCTIONS BASED ON ANDING, CRING, NOTING, TIMING, AND SPECIAL CODED OPERATIONS SHALL ALSO BE INCORPORATED IN THE RESIDENT SOFTWARE PROGRAM OF THE SYSTEM.

B. SYSTEM OPERATION

1. THE SYSTEM OPERATION SUBSEQUENT TO THE ACTIVATION OF ANY MANUAL OR AUTOMATIC ALARM INITIATING DEVICE SHALL BE AS FOLLOWS:
 - A. ALL AUDIBLE VISUAL ALARM INDICATING APPLIANCES SHALL SOUND AT THE NEW FIRE ALARM PANEL AND AT THE REMOTE ANNUNCIATOR UNTIL SILENCED BY THE ALARM SILENCE SWITCH.
 - B. THE ALARM SHALL BE DISPLAYED ON AN 80-CHARACTER LCD DISPLAY. THE TOP LINE OF 40 CHARACTERS SHALL BE THE POINT LABEL, AND THE SECOND LINE SHALL BE THE DEVICE TYPE IDENTIFIER. THE SYSTEM ALARM LED SHALL FLASH ON THE CONTROL PANEL UNTIL THE ALARM HAS BEEN ACKNOWLEDGED. ONCE ACKNOWLEDGED, THIS SAME LED SHALL LATCH ON. A SUBSEQUENT ALARM RECEIVED FROM ANOTHER ZONE SHALL FLASH THE SYSTEM ALARM LED ON THE CONTROL PANEL. THE LCD DISPLAY SHALL SHOW THE NEW ALARM INFORMATION, AT THE CONTROL PANEL.
 - C. TRANSMIT A SIGNAL FROM THE CONTROL PANEL VIA AN RS232 SERIAL PORT, TO PRINT THE SYSTEM STATUS CHANGES ON THE REMOTE SYSTEM PRINTER.
 - D. ACTIVATE THE MUNICIPAL CONNECTION VIA THE RADIO MASTER BOX
 - E. ACTIVATE CONTROL RELAYS LOCATED WITHIN AN EXTERNAL CONTROL CABINET LOCATED NEXT TO THE FIRE ALARM CONTROL PANEL SPECIFIED. IN ADDITION TO BUILDING EVACUATION THE FOLLOWING AUXILIARY CONTROL AND INTERFACE FUNCTIONS SHALL BE PROVIDED BY THE SPECIFIED SYSTEM.
 1. SELECTIVE AUTOMATIC HVAC FAN SHUTDOWN AND MANUAL (HOA) OVERRIDE.
 2. RELEASE OF MAGNETIC DOOR HOLDER.
 3. CAPTURE AN ALTERNATE FLOOR RECALL OF SPECIFIED ELEVATORS.
1. THE SYSTEM SHALL BE PROVIDED WITH STYLE 6 (SLC) ADDRESSABLE DEVICE COMMUNICATION CIRCUITS, STYLE D (DC) INITIATING DEVICE CIRCUITS AND (STYLE Z) NOTIFICATION APPLIANCE CIRCUITS. ALL SYSTEM FAULTS SHALL BE INDICATED AND DISPLAYED AT THE CONTROL PANEL.
2. THE SYSTEM SHALL BE PROVIDED WITH A STANDBY BATTERY SET OR SETS, WITH SUFFICIENT CAPACITY TO OPERATE THE ENTIRE SYSTEM UPON LOSS OF NORMAL OPERATING POWER, FOR A TIME PERIOD OF (60) HOURS IN SUPERVISORY MODE, WITH (15) MINUTES OF ALARM AT THE END OF THE (60) HOUR TIME PERIOD. THE STANDBY BATTERY SET SHALL BE CHARGED, LOAD TESTED AND MONITORED FOR EITHER A DISCONNECTED OR LOW BATTERY STATUS CONDITION BY THE SYSTEM. ANY FAULT DETECTED WITH THE STANDBY BATTERIES SHALL BE INDICATED AND DISPLAYED AT THE CONTROL PANEL.
- D. FIRE ALARM CONTROL PANEL
 1. CONTROL PANEL SHALL HAVE SOLID STATE, MICROPROCESSOR BASED ELECTRONICS USING SURFACE MOUNT TECHNOLOGY, THROUGH-PUT TECHNOLOGY WILL NOT BE ALLOWED. IT SHALL DISPLAY ONLY THOSE PRIMARY CONTROLS AND DISPLAYS ESSENTIAL TO OPERATION DURING A FIRE ALARM CONDITION. KEYBOARDS OR KEYPADS SHALL NOT BE REQUIRED TO OPERATE THE SYSTEM DURING THE FIRE ALARM CONDITIONS. THE UNIT SHALL HAVE 9 AMP POWER SUPPLY MINIMUM.
 2. A LOCAL AUDIBLE DEVICE SHALL SOUND DURING ALARM, TROUBLE OR SUPERVISORY CONDITIONS. THIS AUDIBLE DEVICE SHALL SOUND DIFFERENTLY DURING EACH CONDITION TO DISTINGUISH ONE CONDITION FROM ANOTHER WITHOUT HAVING A VIEW THE PANEL. THIS AUDIBLE DEVICE SHALL ALSO SOUND DURING EACH KEY PRESS TO PROVIDE AN AUDIBLE FEEDBACK TO ENSURE THAT THE KEY HAS BEEN PRESSED PROPERLY.

3. THE FOLLOWING PRIMARY CRYSTAL DISPLAYS:

- A. INDIVIDUAL RED SYSTEM ALARM LED
- B. INDIVIDUAL YELLOW SUPERVISORY SERVICE LED
- C. INDIVIDUAL YELLOW TROUBLE LED
- D. GREEN "POWER ON" LED
- E. ALARM ACKNOWLEDGE KEY
- F. TROUBLE ACKNOWLEDGE KEY
- G. ALARM SILENCE KEY
- H. SYSTEM RESET KEY

4. PRIMARY, KEYS, LEDS AND LCD DISPLAY.

5. THE CONTROL PANEL SHALL HAVE A 2-LINE X 40 CHARACTER LIQUID CRYSTAL DISPLAY WHICH SHALL BE BACK LIGHTED FOR ENHANCED READABILITY. SO AS TO CONSERVE BATTERY STANDBY, POWER IT SHALL NOT BE LIT DURING AN AC POWER FAILURE, UNLESS AN ALARM CONDITION OCCURS OR THERE IS KEYPAD ACTIVITY.

6. THE DISPLAY SHALL SUPPORT BOTH UPPER AND LOWER CASE LETTERS. LOWER CASE LETTERS SHALL BE USED FOR SHORT TITLES AND PROMPTING THE USER. UPPERCASE LETTERS SHALL BE USED FOR SYSTEM STATUS INFORMATION. A CURSOR SHALL BE VISIBLE WHEN ENTERING INFORMATION. SYSTEMS USING UPPERCASE LETTERS ONLY WILL NOT OFFER CLEAR DISTINCTION BETWEEN ALARMS AND PROGRAMMING AND ARE NOT ACCEPTABLE.

7. ANY SUPPLEMENTAL NOTIFICATION CONTROL PANELS SHALL BE CAPABLE OF OPERATING ALL CONNECTED NOTIFICATION APPLIANCE DEVICES THROUGHOUT THE BUILDING, AND 25 % SPARE CAPACITY FOR VISUAL AND THE HORN CIRCUITS. THEY SHALL HAVE AT A MINIMUM 12 AMPS OF AVAILABLE NAC POWER.

E. ISOLATION MODULES

1. PROVIDE FIELD MOUNTED ISOLATION MODULES FOR EVERY 20 DEVICES TO PROTECT CIRCUIT INTEGRITY IN THE EVENT OF A WIRING FAULT & ENSURE STYLE 6 WIRING CONVENTIONS.

F. RESET SYSTEM

1. THE SYSTEM RESET BUTTON SHALL BE USED TO RETURN THE SYSTEM TO ITS NORMAL STATE AFTER AND ALARM CONDITION HAS BEEN REMEDIED. THE LCD DISPLAY SHALL STEP THE USER THROUGH THE RESET PROCESS WITH SIMPLE ENGLISH LANGUAGE MESSAGES. MESSAGE "SYSTEM RESET IN PROGRESS" WILL FIRST BE DISPLAYED, FOLLOWED BY THE MESSAGE "SYSTEM RESET COMPLETED," AND FINALLY "SYSTEM IS NORMAL." SHOULD ALL ALARM CONDITIONS BE CLEARED, IN ORDER TO MAINTAIN CONSISTENCY WITH OTHER EXISTING PANELS, NO DEVIATION FROM THESE MESSAGES CAN BE ACCEPTED.
2. SHOULD AN ALARM CONDITION CONTINUE TO EXIST, THE MESSAGE "SYSTEM RESET IN PROGRESS" WILL BE FOLLOWED BY THE MESSAGE "SYSTEM RESET ABORTED" AND THE SYSTEM WILL REMAIN IN AN ABNORMAL STATE. SYSTEM CONTROL RELAYS SHALL NOT RESET. THE SONALERT AND THE ALARM LED WILL BE ON. THE DISPLAY WILL INDICATE THE TOTAL NUMBER OF ALARMS AND TROUBLES PRESENT IN THE SYSTEM, ALONG WITH A PROMPT TO USE THE ACK KEYS TO REVIEW THE POINTS. THESE POINTS WILL NOT REQUIRE ACKNOWLEDGMENT IF THEY WERE PREVIOUSLY ACKNOWLEDGED.

G. H.O.A. SWITCHES

1. PROVIDE KEY PAD POSITION SWITCH AS SHOWN ON CONTRACT DRAWINGS.

H. SILENT WALKTEST WITH HISTORY LOGGING

1. THE SYSTEM SHALL BE CAPABLE OF BEING TESTED BY ONE PERSON, WHILE IN THE TESTING MODE. THE ALARM ACTIVATION OF AN INITIATING DEVICE CIRCUIT SHALL BE SILENTLY LOGGED AS AN ALARM CONDITION IN THE HISTORICAL DATA FILE. THE PANEL SHALL AUTOMATICALLY RESET ITSELF AFTER LOGGING OF THE ALARM. THE SYSTEM SHALL SIGNAL THE DEVICE ZONE NUMBER THROUGH THE BUILDING AUDIBLE UNITS, FOR IMMEDIATE VERIFICATION BY THE TEST TECHNICIAN, DUE TO THE CRITICAL NATURE OF THE TEST PROCEDURES, NO DEVIATION FROM THIS SECTION CAN BE ACCEPTED.

I. LED SUPERVISION

1. ALL SLAVE MODULE LEDS SHALL BE SUPERVISED FOR BURNOUT OR DISARRANGEMENT. SHOULD A PROBLEM OCCUR, THE LCD SHALL DISPLAY THE MODULE AND LED LOCATION NUMBERS TO FACILITATE LOCATION OF THE LED, DUE TO THE CRITICAL NATURE OF THE PANEL LCD FUNCTIONS, NO DEVIATION FROM THIS REQUIREMENT CAN BE ACCEPTED.

J. SYSTEM TROUBLE REMINDER

1. SHOULD A TROUBLE CONDITION BE PRESENT WITHIN THE SYSTEM AND THE AUDIBLE TROUBLE SIGNAL SILENCED, THE TROUBLE SIGNAL SHALL RESOUND AT PREPROGRAMMED TIME INTERVALS TO ACT AS A REMINDER THAT THE FIRE ALARM SYSTEM IS NOT 100% OPERATIONAL. BOTH THE TIME INTERVAL AND THE TROUBLE REMINDER SIGNALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE AND NFPA 72 AS REFERENCED.

K. MULTIPLE ADDRESSABLE PERIPHERAL NETWORK

1. PROVIDE ADDRESSABLE CIRCUITS FOR COMMUNICATION WITH ADDRESSABLE DEVICES. SYSTEM SHALL HAVE AN INDEPENDENT ISOLATED ADDRESSABLE LOOPS, UP TO 318 ADDRESSABLE DEVICES.
2. THE SYSTEM MUST PROVIDE COMMUNICATION WITH INITIATING AND CONTROL DEVICES INDIVIDUALLY. ALL OF THESE DEVICES WILL BE INDIVIDUALLY ANNUNCIATED AT THE CONTROL PANEL.
3. ANNUNCIATION SHALL INCLUDE THE FOLLOWING CONDITIONS FOR EACH POINT.
 - A. ALARM
 - B. TROUBLE
 - C. OPEN
 - D. SHORT
 - E. DEVICE MISSING/FAILED
4. ALL ADDRESSABLE DEVICES SHALL HAVE THE CAPABILITY OF BEING DISABLED OR ENABLED INDIVIDUALLY.
5. UP TO 318 ADDRESSABLE DEVICES ON A CLASS A CIRCUIT. SYSTEMS THAT REQUIRE FACTORY RE-PROGRAMMING TO ADD OR DELETE SERVICES ARE UNACCEPTABLE.
6. IDENTIFICATION OF ADDRESSABLE DEVICES.

L. PHOTOELECTRIC DETECTOR HEAD

1. PROVIDE PHOTOELECTRIC TYPE DETECTORS, WHERE INDICATED OR REQUIRED. THEY SHALL BE A PLUG-IN UNIT WHICH MOUNTS TO A TWISTLOCK BASE, AND SHALL BE UL APPROVED.
2. THE DETECTORS SHALL BE OF THE SOLID STATE PHOTOELECTRIC TYPE AND SHALL CONTAIN NO RADIOACTIVE MATERIAL. THEY WILL USE A REFRACTED INFRARED LED LIGHT SOURCE AND BE SEALED AGAINST REAR AIR FLOW ENTRY.

3. THE DETECTOR SHALL FIT INTO A BASE THAT IS COMMON WITH BOTH THE HEAT DETECTOR AND IONIZATION TYPE DETECTOR AND SHALL BE COMPATIBLE WITH OTHER ADDRESSABLE DETECTORS. ADDRESSABLE MANUAL STATIONS, AND ADDRESSABLE ZONE ADAPTER MODULES ON THE SAME CIRCUIT, DEVICE ADDRESSES SHALL BE CONTAINED IN THE BASE OF THE DETECTOR. THOSE SYSTEMS WHICH PROVIDE ADDRESSING IN THE HEAD, SHALL PROVIDE AN ADDRESSABLE MONITOR MODULE AND A CONVENTIONAL DETECTOR ASSEMBLY TO ALLOW THE OWNER TO REPLACE A DETECTOR HEAD WITHOUT THE NEED OF VERIFYING DETECTOR ADDRESS.

4. THERE SHALL BE NO LIMIT TO THE NUMBER OF DETECTORS OR ZONE ADAPTER MODULES WHICH MAY BE ACTIVATED OR "IN ALARM" SIMULTANEOUSLY.

5. DUE TO THE REQUIREMENT FOR IMMEDIATE CHANGE OUT OF DETECTOR HEADS ADDRESS SETTING SWITCHES, JUMPPERS ETC., MAY BE PROVIDED IN THE HEAD OR BEHIND THE DETECTOR BASE. DETECTORS WHICH USE DIP SWITCHES ARE NOT ACCEPTABLE.

6. PROVIDE A DUCT HOUSING WITH SENSOR, WITH RELAY. THE RELAY SHALL BE SOFTWARE PROGRAMMABLE TO ALLOW THE UNIT IN WHICH THE DETECTOR IS MOUNTED IN TO BE SHUT DOWN, OR ANY OTHER DEVICE TO BE CONTROLLED BY THIS PROGRAMMABLE RELAY. THE RELAY MAY BE A SEPARATE UNIT FROM THE DUCT HOUSING TO ALLOW FOR TROUBLESHOOTING AND DISCONNECTS.

7. PROVIDE SAMPLING TUBE AS REQUIRED FOR UNIT SIZE.

8. PROVIDE A REMOTE TEST UNIT FOR EACH DUCT SMOKE DETECTOR WITH LED ALARM INDICATOR AND TEST KEY SWITCH.

M. LCD ANNUNCIATOR

1. PROVIDE A VGA COLOR TOUCH SCREEN LCD ANNUNCIATOR AND STATIC GRAPHIC PLOT PLAN AS SHOWN ON THE CONTRACT DRAWINGS. SUBMIT A LAYOUT OF THIS UNIT TO THE ENGINEER FOR APPROVAL.
2. PROVIDE CITY CONNECTIONS TO THE LOCAL FIRE DEPARTMENT.

N. ADDRESSABLE THERMAL DETECTOR HEAD

1. PROVIDE THERMAL DETECTOR HEADS WHERE INDICATED OR REQUIRED.
2. THERMAL DETECTOR HEADS MUST BE UL LISTED. SHALL BE A COMBINATION RATE-OF-USE AND FIXED TEMPERATURE (135 F) TYPE, AUTOMATICALLY RESTORABLE.
3. PROVIDE REMOTE LED ALARM INDICATORS, AS INDICATED ON PLANS.

O. ADDRESSABLE PULL STATIONS

1. PROVIDE ADDRESSABLE PULL STATIONS WHICH CONTAIN ELECTRONICS THAT COMMUNICATE THE STATIONS STATUS (ALARM, NORMAL) TO THE CONTROL PANEL, OVER ONE TWISTED PAIR. THE ADDRESS WILL SET ON THE STATION. THEY WILL BE MANUFACTURED FROM HIGH IMPACT RED LEXAN. STATION WILL MECHANICALLY LATCH UPON OPERATION AND REMAIN SO UNTIL MANUALLY RESET BY OPENING WITH A KEY COMMON TO ALL SYSTEM LOCKS. PULL STATIONS WILL BE DOUBLE ACTION AND AS IDENTIFIED BY A SCHEDULE ON THE PRINTS.

2. THE FRONT OF THE STATION IS TO BE HINGED TO A BACKPLATE ASSEMBLY AND MUST BE OPENED WITH A KEY TO RESET THE STATION. THE KEY SHALL BE COMMON WITH THE CONTROL PANELS. STATIONS WHICH USE ALLEN WRENCHES OR SPECIAL TOOLS TO RESET WILL NOT BE ACCEPTED. THE STATION SHALL CONSIST OF HIGH IMPACT LEXAN PLASTIC, RED IN COLOR.

3. THE ADDRESSABLE MANUAL STATION SHALL BE CAPABLE OF FIELD PROGRAMMING OF ITS "ADDRESSABLE" LOCATION ON AN ADDRESSABLE INITIATING CIRCUIT.

4. THERE SHALL BE NO LIMIT TO THE NUMBER OF STATIONS, DETECTORS OR ZONE ADAPTER MODULES, WHICH MAY BE ACTIVATED OR "IN ALARM" SIMULTANEOUSLY.

5. THE ADDRESSABLE MANUAL STATION SHALL BE UNDERWRITER'S LABORATORIES INC. LISTED.

6. PROVIDE PROTECTIVE COVERS, EQUAL TO STOPPER II, WHERE REQUIRED BY THE AHJ.

P. ZONE ADAPTER MODULES

1. ZONE ADAPTER MODULES SHALL BE USED FOR MONITORING OF WATERFLOW, VALVE TAMPER, HALON CONTROL PANELS, NON-ADDRESSABLE DETECTORS, AND FOR CONTROL OF EVACUATION INDICATING APPLIANCES AND AHJ SYSTEMS.
2. AN ADDRESSABLE INTERFACE MODULE SHALL BE PROVIDED FOR INTERFACING NORMALLY OPEN DIRECT CONTACT DEVICES TO AN ADDRESSABLE INITIATING CIRCUIT.
3. ADDRESSABLE MODULES WILL BE CAPABLE OF MOUNTING IN A STANDARD ELECTRIC OUTLET BOX. ZAMS WILL INCLUDE COVER PLATES TO ALLOW SURFACE OR FLUSH MOUNTING. ZAMS WILL RECEIVE THEIR 24 VDC POWER FROM A SEPARATE TWO WIRE PAIR RUNNING FROM AN APPROPRIATE POWER.
4. THERE SHALL BE TWO TYPES OF DEVICES:
 1. MONITOR MODULE
 2. CONTROL MODULE
5. ADDRESSABLE DEVICE SUPERVISION.
 - A. ALL DEVICES SHALL BE SUPERVISED FOR TROUBLE CONDITION. THE SYSTEM CONTROL PANEL WILL BE CAPABLE OF DISPLAYING THE TYPE OF TROUBLE CONDITION (OPEN, SHORT, DEVICE MISSING/FAILED), SHOULD A DEVICE FAIL, IT WILL NOT HINDER THE OPERATION OF OTHER DEVICES.
6. SPRINKLER FLOW, AND TAMPER SWITCHES ARE TO BE SUPPLIED AND INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT. EACH DEVICE SHALL BE AN ADDRESS ON THE FIRE ALARM PANEL, SO THAT THEY MAY BE PROGRAMMED AS EITHER ALARMS OR TROUBLES. PROGRAM ALL AS ALARMS ON THIS PROJECT.

Q. AUDIBLE/VISUAL UNIT (XENON STROBE)

1. PROVIDE MULTI-CANDELA HORN/STROBE UNITS COMPRISED OF A HORN AND XENON FLASH TUBE ENTIRELY SOLID STATE. THE UNIT TO CONFORM TO ITS REQUIREMENTS.
2. VISUAL FLASHING LAMPS (XENON STROBE)
3. VISUAL INDICATING APPLIANCES SHALL BE COMPRISED OF A XENON FLASH TUBE AND BE ENTIRELY SOLID STATE. THIS UNIT SHALL MOUNT TO A SINGLE GANG BOX AND PLATE FOR SURFACE MOUNT. MINIMUM OF 75 CD LIGHT OUTPUT TO CONFORM TO A.D.A. ALL STROBES SHALL BE SYNCHRONIZED.

R. MINI-HORNS

1. PROVIDE RED, MINI HORN WHERE INDICATED ON CONTRACT DRAWINGS. THE UNIT SHALL MOUNT TO A SINGLE, DEEP GANG BOX.

S. STROBE LIGHT

1. PROVIDE A MULTI-CANDELA STROBE APPLIANCE.

T. MAGNETIC DOOR HOLDERS

1. PROVIDE SEMI-FLUSH WALL MOUNTED, 120 V.A.C AND 24 V.D.C. WITH LONG CATCH PLATE.

U. BATTERIES AND BATTERY CABINET

1. PROVIDE MAINTENANCE - FREE BATTERIES.

V. RELAY MODULE

1. PROVIDE ADDRESSABLE RELAY TO PROVIDE SUPERVISED CONTROL OF AUXILIARY CIRCUITS (AHJ's, DOOR HOLDERS, ETC) VIA SLC ADDRESSABLE LOOP. RELAY SHALL PROVIDE SUPERVISED OUTLET FOR 3AMPS @ 30VDC OR 0.5AMPS AT 120VAC. WHERE CURRENT EXCEEDS LIMITATIONS PROVIDE ISOLATION RELAY RATED FOR REQUIRED LOAD.

W. INSTALLATION FIRE ALARM WIRING

1. ALL FIRE ALARM WIRING SHALL CONFORM TO THE APPLICABLE STATE AND LOCAL FIRE SAFETY CODES.
2. WIRING SHOWN ON DRAWINGS IS FOR ESTIMATING PURPOSED ONLY. THE FINAL WIRING REQUIREMENTS SHALL BE PER THE EQUIPMENT MANUFACTURERS WIRING DIAGRAMS AND NO INCREASE IN CONTRACT PRICE WILL BE ALLOWED FOR ANY ADDITIONAL WIRES THAT MAY BE SHOWN ON THE MANUFACTURER'S DRAWINGS.
3. DETAILED ONE-LINE SCHEMATIC WIRING DIAGRAMS OF EACH SPECIFIED DEVICE BETWEEN ALL SYSTEMS. THESE CONNECTION DRAWINGS ARE TO INDICATE ROUTING OF CONDUCTORS VIA THE FLOOR TERMINAL BOXES.

X. PROGRAMMING OF SYSTEM

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN APPROVED ZONE AND DEVICE CUSTOM LABELS, THAT WILL BE PROGRAMMED INTO THE SYSTEM FOR ZONE AND DEVICE IDENTIFICATION PURPOSES. THE SUBJECT CUSTOM LABELS SHALL BE APPROVED BY OWNERS REPRESENTATIVE AND THE FIRE DEPT. BEFORE THEY ARE PROGRAMMED INTO THE SYSTEM.

Y. TRAINING:

1. THE ELECTRICAL CONTRACTOR AND SYSTEM MANUFACTURER SHALL PROVIDE A MINIMUM OF ONE (1) ON-SITE TRAINING SESSIONS FOR THE OWNERS REPRESENTATIVES. EACH SESSION SHALL BE A MINIMUM OF 1 HOUR.
2. DUE TO THE CRITICAL NATURE OF PROPER SYSTEM OPERATION, TRAINING MUST BE CONDUCTED BY PERSONNEL IN THE DIRECT EMPLOY OF THE MANUFACTURER OF THE FIRE ALARM CONTROL PANEL. A THIRD PARTY INSTRUCTOR IS NOT ACCEPTABLE.

AA. WARRANTY:

1. THE CONTRACTOR SHALL WARRANT THE COMPLETE FIRE ALARM SYSTEM WIRING AND EQUIPMENT TO BE FREE FROM INHERENT MECHANICAL AND ELECTRICAL DEFECTS FOR A PERIOD OF (3) THREE YEARS FROM THE DATE OF THE COMPLETED AND CERTIFIED TEST OR FROM THE DATE OF FIRST BENEFICIAL USE.
2. THE EQUIPMENT MANUFACTURE SHALL MAKE AVAILABLE TO THE OWNER A MAINTENANCE CONTRACT PROPOSAL TO PROVIDE A MINIMUM OF TWO (2) INSPECTIONS AND TEST PER YEAR IN COMPLIANCE WITH NFPA-72H GUIDELINES.

BB. SUBMITTALS

1. PROVIDE COMPLETE SETS OF DOCUMENTATION TO INCLUDE THE FOLLOWING:
 - A. A COMPLETE POINT TO POINT RISER DIAGRAM OF THE FIRE ALARM SYSTEM SHOWING ALL DEVICES AND EQUIPMENT AND SIZE, TYPE AND NUMBERS OF ALL CONDUCTORS.
 - B. BATTERY STANDBY AND POWER SUPPLY CALCULATIONS SHOWING TOTAL POWER REQUIRED TO MEET THE SPECIFIED SYSTEM REQUIREMENTS INCLUDING SPARE CAPACITY ALLOWANCES. CALCULATIONS SHALL INCLUDE A COMPLETE LIST OF CURRENT REQUIREMENTS DURING NORMAL, SUPERVISORY, TROUBLE AND ALARM CONDITIONS. CALCULATIONS SHALL ALSO DEMONSTRATE PROPER CONSIDERATION OF CURRENT REQUIREMENTS, WIRE SIZE, WIRE LENGTH AND VOLTAGE DROP CHARACTERISTICS.
 - C. MANUFACTURER'S ORIGINAL CATALOG DATA SHEETS SHALL BE SUPPLIED FOR ALL OF THE EQUIPMENT TO BE SUPPLIED. ALL EQUIPMENT SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER AND NO EQUIPMENT SHALL BE ORDERED WITHOUT PRIOR APPROVAL.
 - D. LARGE SCALE DRAWINGS OF THE MAIN CONTROL PANEL AND EACH REMOTE PANEL DEPICTING OVERALL MECHANICAL DIMENSIONS, LAYOUT INCLUDING FUTURE ALLOWANCES, AND FIELD WIRING IN FULL DETAIL.
 - E. DOCUMENTATION OF THE SUPPLIER'S QUALIFICATIONS INDICATING YEARS IN BUSINESS SERVICE POLICIES, WARRANTY DEFINITIONS, AND A LIST OF SIMILAR INSTALLATIONS IN THE LOCAL MUNICIPALITY.
 - F. PROVIDE A COMPLETE DETAILED DESCRIPTION OF THE SYSTEM OPERATION.
 - G. ADDRESSES FOR ALL FIELD DEVICES SHALL BE SHOWN ON FLOOR PLANS SUPPLIED WITH THIS SUBMITTAL.

CC. DOCUMENTATION:

1. AT THE COMPLETION OF THE PROJECT A COMPLETE SET OF OPERATING/MAINTENANCE MANUALS, THE FIRE ALARM SUBMITTAL BOOK, POINT-TO-POINT WIRING DIAGRAMS, A TERMINAL STRIP CABINET CONNECTION POINT DIAGRAM FOR EACH TERMINAL CABINET, A COMPLETE POINT ADDRESS LISTING BY DEVICE, AND A FINAL TEST REPORT SHALL BE GIVEN TO THE OWNER.

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PROJECT NAME

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PROJECT NO. 25114

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REVISIONS

NO.	DESCRIPTION	DATE

ISSUED FOR BID

ISSUED DATE: JULY 1, 2026

SHEET TITLE

FIRE ALARM SPECIFICATIONS

DRAWING NO.

FA2.0