

BN1580 JOJO'S SHAKE BAR

15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

PROJECT DATA

DESCRIPTION: TENANT IMPROVEMENT OF EXISTING VACANT SPACE
OCCUPANCY TYPE: A-2
CONSTRUCTION TYPE: 2B
OCCUPANCY CONTENT: RESTAURANT

SCOPE OF WORK AREA: INTERIOR SUITE: 3,980 SF
EXTERIOR PATIO: 648 SF

NUMBER OF STORIES: 1

MEANS OF EGRESS:

NOTE: THE FOLLOWING CALCULATIONS ARE FOR EXITING PURPOSES ONLY

OCCUPANT LOAD:

INTERIOR:

ENTRY/HOST: 82 SF/15 = 5
SERVICE/BAR: 182 SF/200 = 1
ASSEMBLY (A2) UNCONCENTRATED: 1,184 SF/15 = 78
ASSEMBLY (A2) FIXED SEATING: 1,242"/24" PER PERSON = 51
SUPPORT: 1,500 SF/300 = 5

TOTAL INTERIOR: 151 OCCUPANTS

REQUIRED EXITS:

REQUIRED DOOR WIDTH: 36" MIN.
151 OCCUPANTS X 0.20 = 30.2"
EXITS REQUIRED: 2
EXITS PROVIDED: 2

EXTERIOR:

ASSEMBLY (A2) UNCONCENTRATED: 659 SF/15 = 44
ASSEMBLY (A2) FIXED SEATING: 189"/24" PER PERSON = 8

TOTAL EXTERIOR: 52 OCCUPANTS

TOTAL INTERIOR & EXTERIOR OCCUPANTS: 192 OCCUPANTS

FIRE SPRINKLERS: YES

FIRE ALARMS/STROBES/ANNUNCIATORS: YES

SMOKE DETECTORS: YES

FIRE EXTINGUISHERS: YES

EMERGENCY LIGHTING: YES

EXIT SIGNS: YES

RESTROOM CALCULATIONS:

192 OCCUPANTS = 97 MEN & 97 WOMEN
RESTAURANT OCCUPANCY REQUIRED FIXTURES:
1 WATER CLOSET PER 75 OCCUPANTS
1 LAVATORY PER 200 OCCUPANTS

MEN:

REQ'D WC = 97 OCCUPANTS/75 = 1.29
PROVD WC = 3
REQ'D LAV = 97 OCCUPANTS/200 = 0.485
PROVD LAV = 2

WOMEN:

REQ'D WC = 97 OCCUPANTS/75 = 1.29
PROVD WC = 2
REQ'D LAV = 97 OCCUPANTS/200 = 0.485
PROVD LAV = 2

DEFERRED SUBMITTALS:

FIRE PROTECTION: YES
SIGNAGE: YES
STRUCTURAL: YES

PROJECT DIRECTORY

TENANT / APPLICANT:

NAME: JOJO'S SHAKE BAR
ADDRESS:

CONTACT: NICK THAYER
PHONE: 312.545.7833
EMAIL: nick@jojoshakebar.com

BUILDING OWNER / LANDLORD:

NAME: WASHINGTON PRIME GROUP
ADDRESS: 180 EAST BROAD STREET
COLOMBUS, OH 43215
CONTACT: CHRIS DICARLO
PHONE: 614.887.5755
EMAIL: chris.dicarlo@washingtonprime.com

ARCHITECTURAL DESIGN:

NAME: BAR NAPKIN PRODUCTIONS
ADDRESS: 2828 N. CENTRAL AVE, SUITE 1300
PHOENIX, AZ 85004
CONTACT: JASON RIEKE
PHONE: 602.903.4822
EMAIL: jason@bnp-llc.com

MECHANICAL / PLUMBING / ELECTRICAL ENGINEER:

NAME: MIDDLETON ENGINEERING
ADDRESS: 48 KIWANIS RD
ROCHESTER, NY 14617
CONTACT: DON MIDDLETON
PHONE: 585.738.4793
EMAIL: don@mittletonpe.com

STRUCTURAL ENGINEER:

NAME: TBD - DEFERRED SUBMITTAL
ADDRESS:

CONTACT:
PHONE:
EMAIL:

FOOD SERVICE CONSULTANT:

NAME: ZEPOLE SUPPLY CO.
ADDRESS: 506 E NORTH FRONTAGE RD
BOLINGBROOK, IL
CONTACT: GARY THIAKOS
PHONE: 630.783.1239
EMAIL: gary@zepole.com

GENERAL CONTRACTOR:

NAME: TBD
ADDRESS:
CONTACT:
PHONE:
EMAIL:

CITY OF SCOTTSDALE CODES

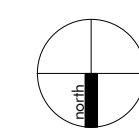
ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND AMENDMENTS FOR THEIR ADOPTING ORDINANCES:

2015 INTERNATIONAL BUILDING CODE (IBC)
2015 INTERNATIONAL MECHANICAL CODE (IMC)
2015 INTERNATIONAL PLUMBING CODE (IPC)
2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2015 INTERNATIONAL FIRE CODE
2014 NATIONAL ELECTRICAL CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

VICINITY MAP



SCOTTSDALE QUARTER



SHEET INDEX:

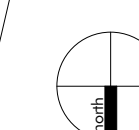
COVER	
CS	COVER SHEET
GENERAL	
G1.0	ABBREVIATIONS, SYMBOLS & GENERAL NOTES
G4.0	EXITING AND ACCESSIBLE ROUTE PLAN
G5.0	PROJECT SPECIFICATIONS
G5.1	PROJECT SPECIFICATIONS
G5.2	PROJECT SPECIFICATIONS
DEMOLITION	
AD1.0	DEMOLITION FLOOR PLAN
AD2.0	DEMOLITION REFLECTED CEILING PLAN
ARCHITECTURAL	
A1.0	ARCHITECTURAL FLOOR PLAN
A1.1	FLOOR FINISH PLAN
A1.2	MILLWORK PLAN
A2.0	REFLECTED CEILING PLAN
A2.1	DIMENSIONED LIGHTING PLAN
A2.2	ENLARGED DIMENSIONED LIGHTING PLAN
A3.0	ENLARGED RESTROOM PLANS AND DETAILS
A3.1	RESTROOM ELEVATIONS
A3.2	RESTROOM ELEVATIONS
A5.0	EXTERIOR / STOREFRONT ELEVATIONS
A5.1	EXTERIOR / STOREFRONT ELEVATIONS
A5.2	INTERIOR ELEVATIONS
A5.3	INTERIOR ELEVATIONS
A5.4	INTERIOR ELEVATIONS
A6.0	ARCHITECTURAL DETAILS
A6.1	ARCHITECTURAL DETAILS
A6.2	ARCHITECTURAL DETAILS
A6.3	EXTERIOR WALL SECTIONS
A7.0	MILLWORK DETAILS
A7.1	MILLWORK DETAILS
A7.2	MILLWORK DETAILS
A8.0	PRIMARY & SECONDARY SIGNAGE DETAILS
A9.0	SCHEDULES
FOOD SERVICE	
FS-1	FOOD SERVICE EQUIPMENT PLAN & SCHEDULE
FS-2	FOOD SERVICE EQUIPMENT UTILITY LOAD SCHEDULE
FS-3	FOOD SERVICE EQUIPMENT PLUMBING PLAN
FS-4	FOOD SERVICE EQUIPMENT ELECTRICAL PLAN

FS-5	FOOD SERVICE EQUIPMENT SPECIAL CONDITIONS PLAN
MECHANICAL	
M0.1	MECHANICAL SPECIFICATIONS AND NOTES
M0.2	MECHANICAL LEGEND AND SCHEDULES
M1.1	MECHANICAL DETAILS
M2.1	MECHANICAL DEMOLITION PLAN
M3.1	MECHANICAL PROPOSED PLAN
PLUMBING	
P0.1	PLUMBING SPECIFICATIONS AND NOTES
P0.2	PLUMBING LEGEND AND SCHEDULES
P1.1	PLUMBING DETAILS
P1.2	PLUMBING ISOLMETRICS
P2.1	PLUMBING DEMOLITION PLAN
P3.1	PLUMBING PROPOSED PLAN - DOMESTIC WATER
P3.2	PLUMBING PROPOSED PLAN - SANITARY & VENT SYSTEM
P3.3	PLUMBING PROPOSED PLAN - NATURAL GAS
ELECTRICAL	
E0.1	ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS
E0.2	ELECTRICAL SPECIFICATIONS
E1.1	ELECTRICAL DEMOLITION FLOOR PLAN
E1.2	ELECTRICAL DEMOLITION CEILING PLAN
E2.1	ELECTRICAL PROPOSED FLOOR PLAN
E2.2	ELECTRICAL KITCHEN PLAN
E2.3	ELECTRICAL PROPOSED CEILING PLAN
E2.4	ELECTRICAL MECHANICAL PLAN
E3.1	ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE
E3.2	ELECTRICAL PANEL SCHEDULES
E4.1	LIGHTING AND SENSOR SCHEDULE AND DETAILS

AREA MAP



PROJECT SITE: SUITE #150



BNP

BAR NAPKIN PRODUCTIONS

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COVER SHEET

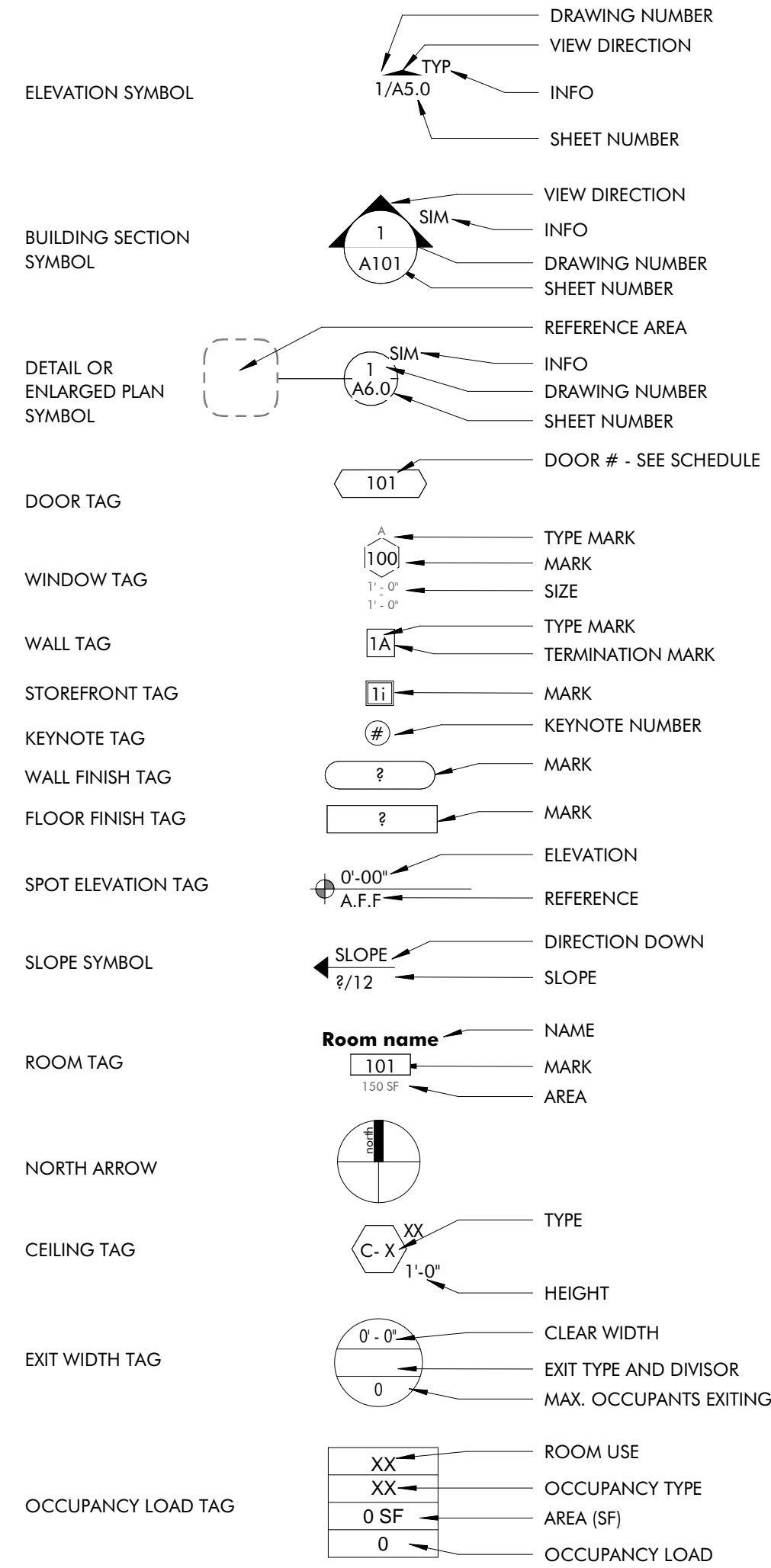
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GENERAL CONDITIONS

- ALL WORK SHALL CONFORM WITH REQUIREMENTS OF THE LOCAL GOVERNING BUILDING CODE, LOCAL ZONING, NATIONAL ELECTRIC CODE, N.F.P.A., OSHA AND ALL OTHER APPLICABLE CODES, RULES AND REGULATIONS ALL IN THEIR LATEST EDITIONS OF ALL AUTHORITIES HAVING JURISDICTION OVER WORK OF THIS TYPE. THE CONTRACTOR SHALL POLICE ALL SUBCONTRACTORS TO COMPLY WITH THESE REGULATIONS.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT, USING HIS BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. THE CONTRACTOR SHALL EMPLOY A COMPETENT SUPERINTENDENT WHO SHALL BE IN ATTENDANCE AT THE PROJECT SITE DURING THE PROGRESS OF THE WORK.
- THE CONTRACTOR SHALL INSPECT THE PREMISES IMMEDIATELY TO CHECK EXISTING WORKING CONDITIONS. SHOULD THE CONTRACTOR FIND CONDITIONS WHICH HE BELIEVES WOULD IMPEDE HIS WORK, THEN SUCH CONDITIONS MUST BE REPORTED IMMEDIATELY TO BAR NAPKIN PRODUCTIONS, LLC. FAILURE TO DO SO WILL CONSTITUTE NOTICE THAT CONTRACTOR IS FULLY SATISFIED WITH THE EXISTING CONDITIONS AND THAT HE INTENDS TO PERFORM HIS OBLIGATIONS WITH NO ALLOWANCE EITHER IN TIME OR MONEY FOR ANY IMPEDIMENTS TO HIS WORK.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PROJECT THROUGH INSPECTION OF THE JOB SITE, DRAWINGS AND SPECIFICATIONS SO AS TO THOROUGHLY UNDERSTAND THE WORK. ANY AND ALL DISCREPANCIES AND OMISSIONS SHALL BE REPORTED AND CLARIFICATION SHALL BE OBTAINED FROM BAR NAPKIN PRODUCTIONS, LLC PRIOR TO WORK BEING DONE. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS IN THE FIELD. IF DIMENSIONAL ERROR OCCURS OR CONDITIONS NOT COVERED IN THE DRAWINGS IS ENCOUNTERED, CONTRACTOR SHALL NOTIFY BAR NAPKIN PRODUCTIONS, LLC BEFORE COMMENCING THAT PORTION OF THE WORK. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS. THE GENERAL CONTRACTOR SHALL CERTIFY ALL EXISTING DIMENSIONS, CLEARANCES, CONDITIONS, AND REPORT DISCREPANCIES AND CONFLICTS TO BAR NAPKIN PRODUCTIONS, LLC PRIOR TO COMMENCEMENT OF WORK. FAILURE TO DO SO CONSTITUTES ACCEPTANCE AND RESPONSIBILITY OF ALL EXISTING CONDITIONS, INCLUDING EQUIPMENT, AND PRECLUDES ADJUSTMENTS IN TIME OR MONEY AS REQUIRED TO RECTIFY THE SITUATIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR WORK BEING PROPERLY PROTECTED AT ALL TIMES. THE CONTRACTOR SHALL FOLLOW ALL ACCEPTED METHODS OF SAFETY PRACTICE AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THIS WORK.
- BAR NAPKIN PRODUCTIONS, LLC SHALL HAVE ACCESS TO THE PREMISES AT ALL TIMES, ANY INFERIOR MATERIAL OR WORKMANSHIP SHALL BE REMOVED UPON DEMAND AND WORK SHALL BE RECONSTRUCTED AS APPROVED BY BAR NAPKIN PRODUCTIONS, LLC.
- A COPY OF THE LATEST SET OF CONSTRUCTION DRAWINGS SHALL BE KEPT AT THE JOBSITE FOR REVIEW BY BAR NAPKIN PRODUCTIONS, LLC.
- DO NOT USE PAINTS, PRIMER, SEALERS, OR GLUES THAT EMIT FLAMMABLE TOXIC OR NAUSEOUS FUMES. USE LOW VOC CONTAINING PRODUCTS. EACH TRADE SHALL BE RESPONSIBLE TO VERIFY THE MATERIALS THEY ARE USING AND COMPLY WITH MANUFACTURERS WRITTEN INSTRUCTIONS FOR THEIR USE.
- BAR NAPKIN PRODUCTIONS, LLC CERTIFIES TO THE BEST OF OUR KNOWLEDGE AND INFORMATION WE HAVE COMPLIED WITH APPLICABLE PORTIONS OF THE ADA, AND THE ANSI STANDARD NO. A117.1-1986 PERTAINING TO BUILDING ACCESSIBILITY OF THE PHYSICALLY HANDICAPPED.
- ALL ITEMS EXPRESSED, DRAWN, NOTED OR SPECIFIED WITHIN THESE DOCUMENTS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. ANY ITEMS NOT INCLUDED AND REQUIRED FOR SUCCESSFUL COMPLETION OF THIS PROJECT ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE GENERAL CONTRACTOR SHALL OBTAIN ALL TRADE PERMITS REQUIRED FOR PROPER PERFORMANCE AND COMPLETION OF THE WORK.
- ALL EQUIPMENT, MATERIALS AND ARTICLES INCORPORATED INTO THIS PROJECT SHALL BE NEW AND UNDAMAGED.
- CONTRACTOR TO PROVIDE AND POST ALL SIGNAGE AS REQUIRED BY THE CITY AND THE ADA.
- THE CONTRACTOR SHALL GUARANTEE IN WRITING ALL LABOR, MATERIALS, AND WORKMANSHIP INSTALLED BY HIM FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER DATE OF ACCEPTANCE OF THE WORK BY THE OWNER EXCEPT AS MODIFIED HEREIN OR ON OTHER DRAWINGS. SHOULD DEFECTS OCCUR, ALL WORK SHALL BE REPLACED OR PROPERLY REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PURCHASED, FABRICATED, AND FINISH ITEMS FOR REVIEW BY BAR NAPKIN PRODUCTIONS, LLC WITHIN 30 DAYS OF COMMENCING PROJECT. NO CHANGES OR SUBSTITUTIONS WILL BE ACCEPTED AFTER 60 DAYS OF COMMENCING PROJECT.
- THE GENERAL CONTRACTOR SHALL NOTIFY BAR NAPKIN PRODUCTIONS AS SOON AS POSSIBLE OF ALL ITEMS WITH LONG LEAD TIMES THAT MAY DELAY CONSTRUCTION SO THAT ALTERNATE OPTIONS MAY BE EXPLORED.
- LEAD TIMES FOR SOME MATERIALS/ FIXTURES MAY BE IN EXCESS OF 8-10 WEEKS. PLEASE PROCURE ACCORDINGLY AS NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT WRITTEN APPROVAL BY BAR NAPKIN PRODUCTIONS.
- DELIVERY, STORAGE & HANDLING:
 - DELIVER MATERIALS CLEARLY LABELED TO IDENTIFY MANUFACTURER, BRAND NAME, QUALITY OR GRADE AND FIRE HAZARD CLASSIFICATION
 - STORE HORIZONTALLY IN ORIGINAL UNDAMAGED PACKAGES.
 - REMOVE FOREIGN MATTER FROM FACE OF PANEL WITH SOFT BRISTLE BRUSH, AVOIDING ABRASIVE ACTION.
- PROJECT/SITE CONDITIONS:
 - ENVIRONMENTAL REQUIREMENTS: INSTALL MATERIALS WHEN TEMPERATURE AND HUMIDITY CONDITIONS APPROXIMATE CONDITIONS THAT WILL EXIST WHEN BUILDING IS OCCUPIED.
 - PROVIDE VENTILATION TO DISPERSE FUMES DURING APPLICATION OF ADHESIVE AS RECOMMENDED BY ADHESIVE MANUFACTURER.
- ERRORS IN SPELLING OR WORK OMISSIONS IN THESE CONSTRUCTION DOCUMENTS SHALL IN NO WAY DAMAGE THE TRUE SPIRIT, INTENT OR MEANING OF THESE DOCUMENTS. REFERENCES TO SPECIFIC STANDARDS ARE INTENDED TO BE THE LATEST EDITION PRIOR TO THE DATE OF ISSUE TO THE SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT SUB-CONTRACTORS ARE APPROVED APPLICATORS OF THE MANUFACTURER WHERE REQUIRED.
- THE CONTRACTOR, REGARDLESS OF ANYTHING IN THESE CONTRACT DOCUMENTS, ACCEPTS THE RESPONSIBILITY OF A WATERTIGHT, WEATHERTIGHT PROJECT.
- THE DRAWINGS ARE SCHEMATIC IN NATURE. MODIFICATIONS IN DUCTS, PIPING, CONDUIT AND WIRING MAY BE REQUIRED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.

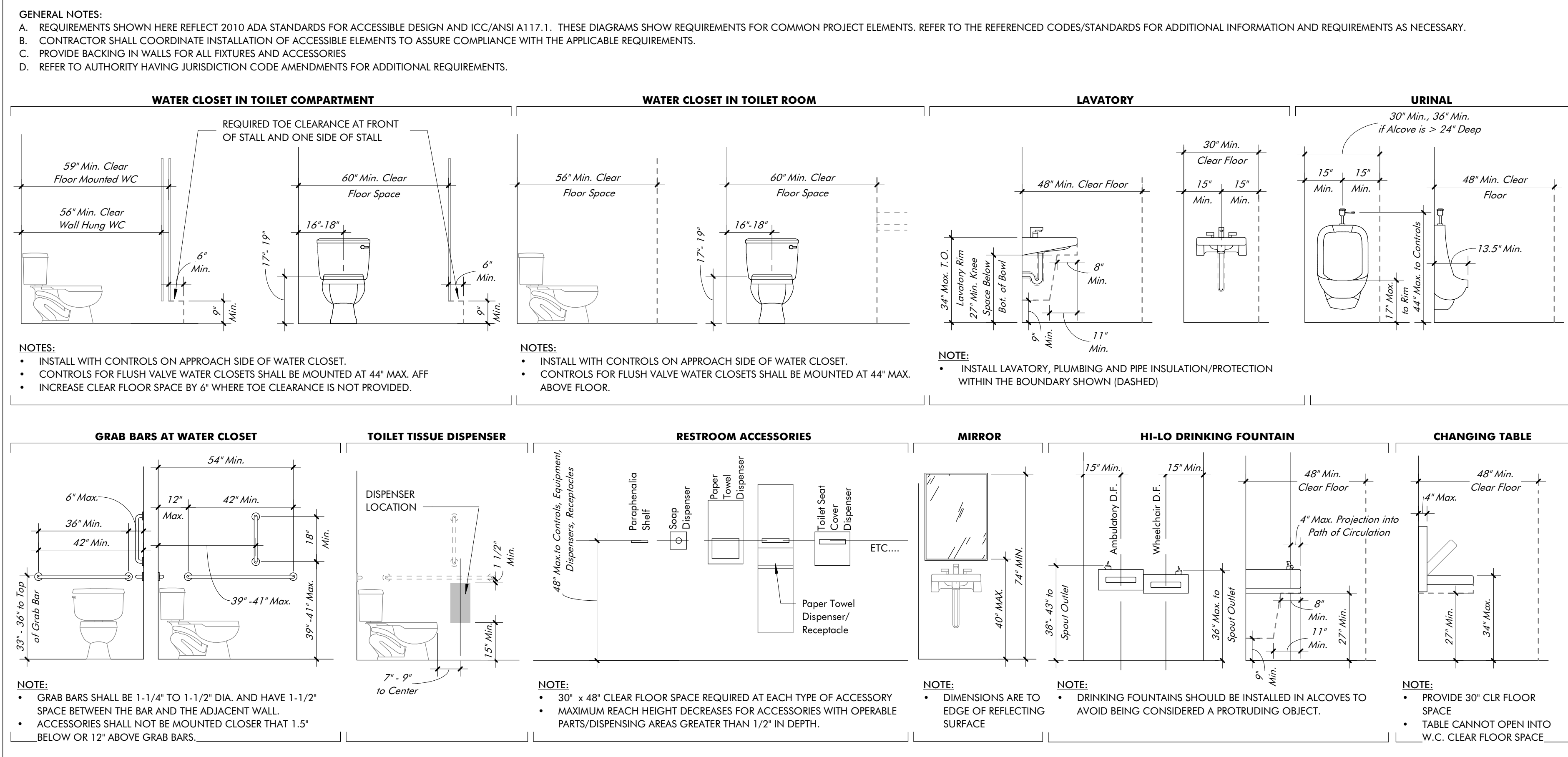
SYMBOL LEGEND



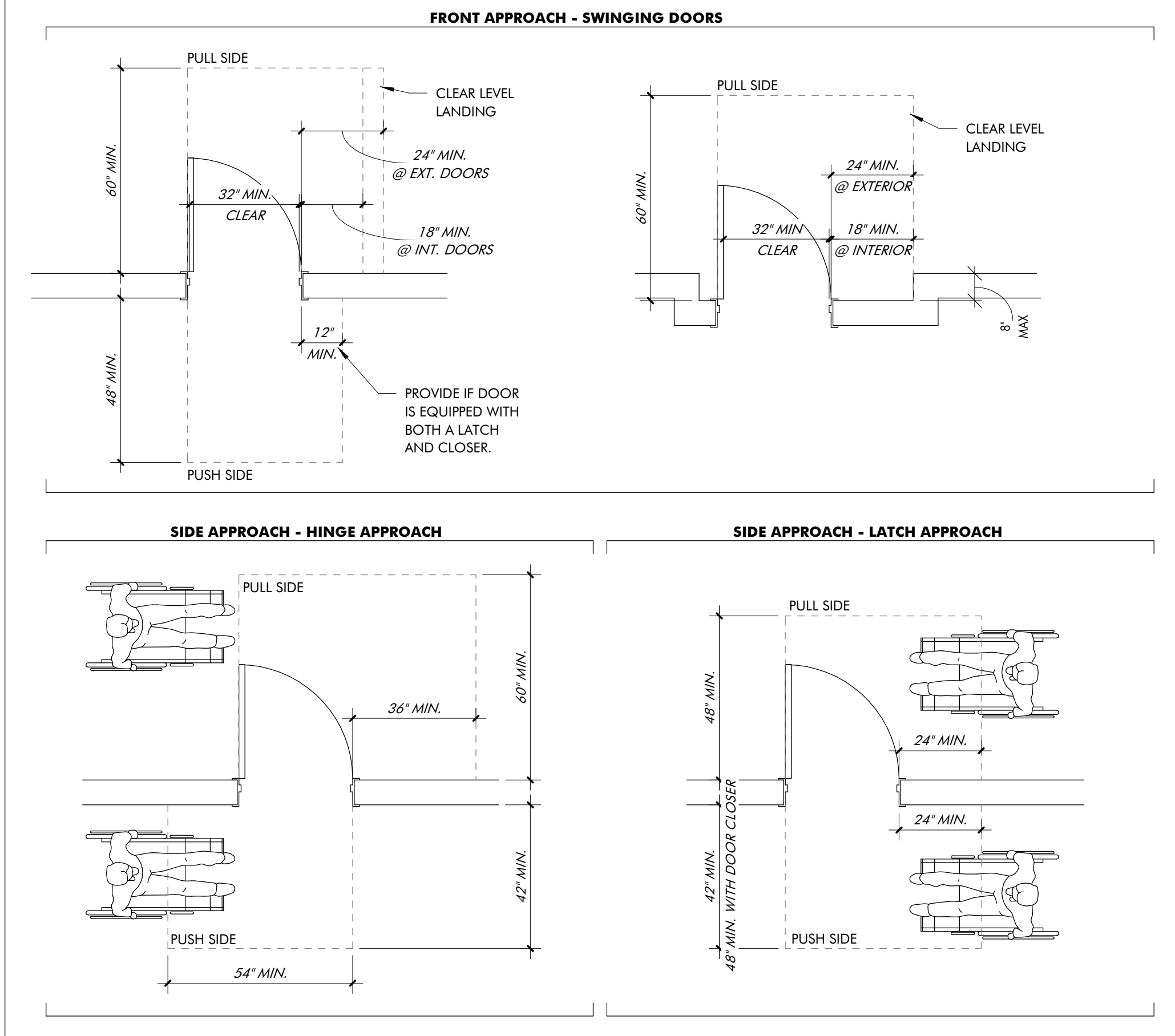
ABBREVIATIONS

AC	AIR CONDITIONING	MISC	MISCELLANEOUS
ACT	ACOUSTIC CEILING TILE	MR	MOISTURE RESISTANT
ADA	AMERICANS WITH DISABILITIES ACT ARCHITECTURAL GUIDELINES	MTD	MOUNTED
ADJ	ADJUSTABLE	MTG	MOUNTING
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AH	AIR HANDLER	NTS	NOT TO SCALE
AHJ	AUTHORITY HAVING JURISDICTION	OC	ON CENTER
ALUM	ALUMINUM	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ALT	ALTERNATE	PERP	PERPENDICULAR
APPROX	APPROXIMATELY	PLAM	PLASTIC LAMINATE
ARCH	ARCHITECTURAL	PLBG	PLUMBING
BD	BOARD	PLYWD	PLYWOOD
BO	BOTTOM OF	PTD	PAINTED
CAB	CABINET	PWDR	POWDER
CJ	CONTROL JOINT	RAD	RADIUS
CL	CENTERLINE	REF	REFRIGERATOR
CLG	CEILING	RCP	REFLECTED CEILING PLAN
CLO	CLOSET	RO	ROUGH OPENING
CLR	CLEAR	RS	ROUGH SAWN
COL	COLLUMN	SES	SERVICE ENTRY SECTION
COMP	COMPOSITE	SC	SOLID CORE
COND	CONDENSER	SHT	SHEET
CONC	CONCRETE	SHTG	SHEATHING
CONST	CONSTRUCTION	SHV	SHELF(S)
CONT	CONTINUOUS	SIM	SIMILAR
CONTR	CONTRACTOR	SJ	SAWCUT JOINT
CPT	CARPET	SS	STAINLESS STEEL
CT	CERAMIC TILE	STRUCT	STRUCTURAL
DTL	DETAIL	STL	STEEL
DF	DRINKING FOUNTAIN	TEL	TELEPHONE
DIA	DIAMETER	TO	TOP OF
DIM	DIMENSION	TPD	TOILET PAPER DISPENSER
DISP	DISPOSAL	T, TEMP	TEMPERED
DN	DOWN	TYP	TYPICAL
DWG	DRAWING	UNO, UNON	UNLESS NOTED OTHERWISE
EF	EXHAUST FAN	UR	URINAL
EJ	EXPANSION JOINT	VAC	VACUUM
ELEC	ELECTRICAL	VCT	VINYL COMPOSITE TILE
ELEV	ELEVATION	VERT	VERTICAL
EQ	EQUAL	VIF	VERIFY IN FIELD
EQUIP	EQUIPMENT	VWC	VINYL WALL COVERING
EXIST, (E)	EXISTING	WB	WALL BASE
EXP	EXPANSION	WC	WATER CLOSET
FEC	FIRE EXTINGUISHER CABINET	WD	WOOD
FIN	FINISH	WH	WATER HEATER
FLUOR	FLUORESCENT	WR	WATER RESISTANT
FR	FIRE RESISTANT		
FRT	FIRE RESISTANT TREATED		
FRP	FIBERGLASS REINFORCED PANEL		
FTG	FOOTING		
FURN	FURNITURE		
GALV	GALVANIZED		
GL	GLASS		
GYP BD	GYP SUM BOARD		
HB	HOSE BIBB		
HDWR	HARDWARE		
HM	HOLLOW METAL		
HORIZ	HORIZONTAL		
HR	HOUR		
HT	HEIGHT		
INCAN	INCANDESCENT		
INSUL	INSULATION		
LAUN	LAUNDRY		
LAV	LAVATORY		
LB	POUND		
LIN	LINEN		
MAX	MAXIMUM		
MECH	MECHANICAL		
MIN	MINIMUM		
MIR	MIRROR		

TYPICAL REQUIREMENTS FOR ACCESSIBLE FIXTURES AND ACCESSORIES



ADA DOOR CLEARANCES



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ABBREVIATIONS,
SYMBOLS & GENERAL
NOTES

G1.0
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SHEET KEYED NOTES

OCCUPANCY TABULATION				
SYMBOL	DESCRIPTION	AREA (IN SQ.FT)	SQ. FT PER OCCUPANT	OCCUPANT LOAD
INTERIOR				
	ENTRY / HOST	82	15 NET	5
	SERVICE / BAR	187	200 GROSS	1
	ASSEMBLY (A2)- UNCONCENTRATED	1,184	15 NET	78
	ASSEMBLY W/ FIXED SEATS	1,242'	24' / P	51
	SUPPORT	1,510	300 GROSS	5
INTERIOR TOTAL				140
EXTERIOR				
	ASSEMBLY (A2)- UNCONCENTRATED	659	15 NET	44
	ASSEMBLY W/ FIXED SEATS	186'	24' / P	8
EXTERIOR TOTAL				52
GRAND TOTAL				192

EXITING PLAN GENERAL SCOPE NOTES

- A. BACK OF HOUSE AISLES SHALL MAINTAIN A MINIMUM 36" WIDE CLEAR PATH OF TRAVEL.
- B. THE PATH OF EGRESS SHALL MAINTAIN A CLEAR MINIMUM DISTANCE OF 19" FROM THE EDGE OF ALL TABLES AND COUNTERS.
- C. EMERGENCY LIGHTING SHALL PROVIDE AN AVERAGE OF ONE FOOT CANDLE ALONG THE PATH(S) OF EGRESS MEASURED AT FLOOR LEVEL.
- D. THE CONTRACTOR SHALL INSTALL OCCUPANCY LOAD SIGN INSIDE NEAR ENTRANCE, "MAXIMUM OCCUPANCY 192". EXACT LOCATION TO BE COORDINATED WITH THE FIRE DEPARTMENT INSPECTOR.

FIRE EXTINGUISHER LEGEND & NOTES

- UL LABELED WET CHEMICAL PORTABLE FIRE EXTINGUISHER(S) DESIGNATED FOR CLASS 'K' FIRES. (MANUFACTURER: OVAL FIRE PRODUCTS; 10H-PKP OR EQUAL). THE LOCATION OF THE FIRE EXTINGUISHER(S) SHALL NOT EXCEED 30' OF TRAVEL DISTANCE FROM ANY COOKING EQUIPMENT. FIRE EXTINGUISHER SHALL BE WALL MOUNTED WITH THE INCLUDED BRACKET OR ORDER OPTIONAL RECESSED CABINET CRST-010100. OBTAIN THE APPROVAL OF THE FIRE CODE OFFICIAL FOR FINAL LOCATIONS PRIOR TO INSTALLATION.
- UL LABELED MULTI PURPOSE DRY CHEMICAL PORTABLE FIRE EXTINGUISHER(S) DESIGNATED FOR CLASS 'A', 'B' AND 'C' FIRES. (MANUFACTURER: OVAL FIRE PRODUCTS; 10H-ABC OR EQUAL). FIRE EXTINGUISHER(S) SHALL BE LOCATED THROUGHOUT THE SPACE SUCH THAT THE TRAVEL DISTANCE FROM ANY POINT WITHIN THE SPACE DOES NOT EXCEED 75 FEET. MOUNTING LOCATIONS SHALL BE CONSPICUOUS WITH NO OBSTRUCTIONS LIMITING SIGHT LINES. FIRE EXTINGUISHER SHALL BE WALL MOUNTED WITH THE INCLUDED BRACKET OR ORDER OPTIONAL RECESSED CABINET CRST-010100. OBTAIN THE APPROVAL OF THE FIRE CODE OFFICIAL FOR FINAL LOCATIONS PRIOR TO INSTALLATION.

EXITING FLOOR PLAN LEGEND

- CLEAR WIDTH
- EXITING TYPE & DIVISOR
- MAX OCCUPANTS EXITING
- ROOM USE
- OCCUPANCY TYPE
- AREA (SF)
- OCCUPANCY LOAD
- WALL MOUNTED EXIT SIGN
- CEILING MOUNTED EXIT SIGN
- EXIT ROUTE



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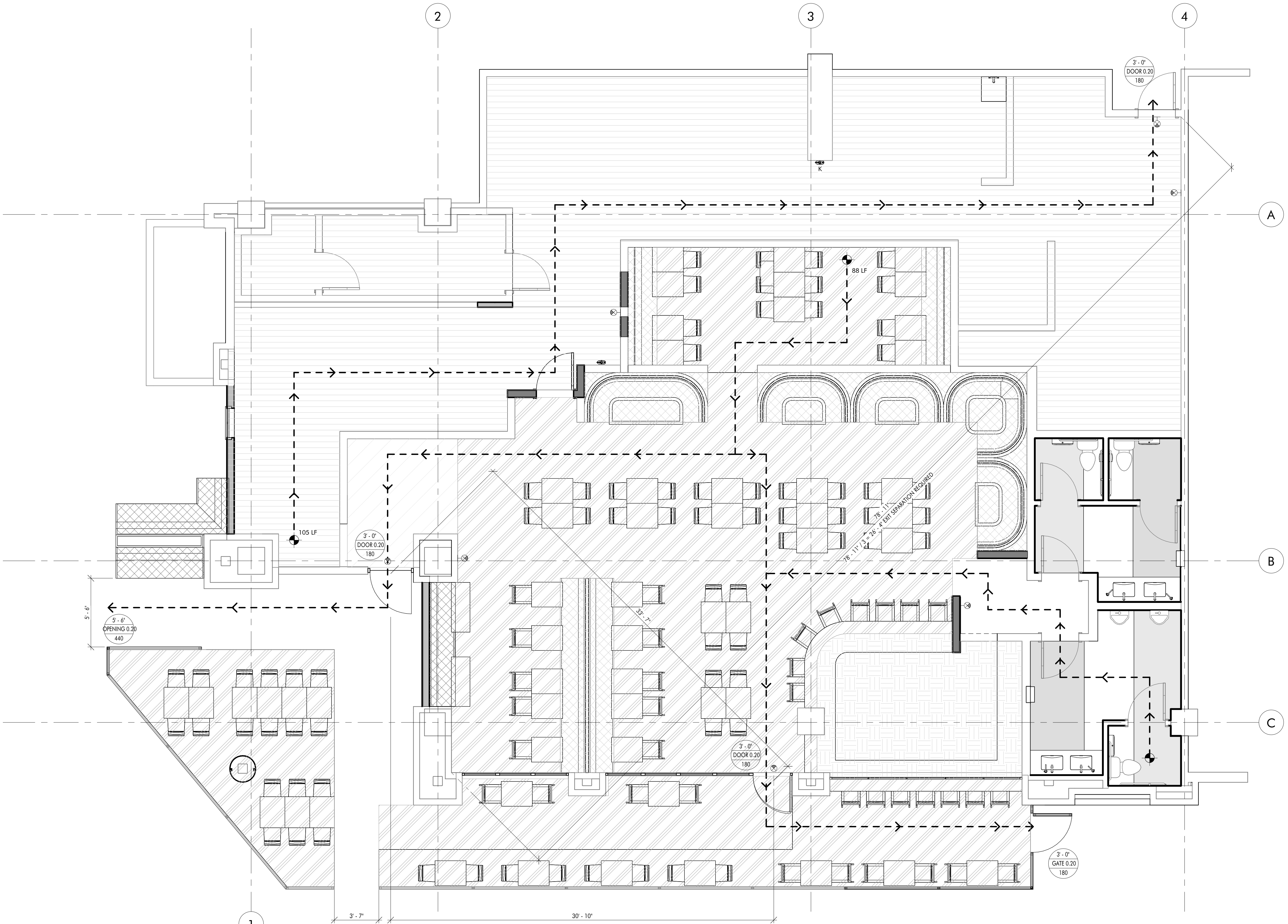
15037 N. SCOTTSDALE ROAD SUITE #150
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EXITING AND ACCESSIBLE ROUTE PLAN

G4.0
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1 EXITING AND ACCESSIBLE ROUTE PLAN
1/4" = 1'-0"

DIVISION 1 GENERAL REQUIREMENTS

01000 GENERAL CONDITIONS

REFER TO ARCHITECTURAL SHEET A0.0 FOR GENERAL NOTES

DIVISION 2 DEMOLITION

REFER TO DEMOLITION PLAN(S) IN CONSTRUCTION DOCUMENT SET

REFER TO ARCHITECTURAL SHEET A0.0 FOR GENERAL DEMOLITION NOTES

DIVISION 3 CONCRETE

033000 CAST-IN-PLACE CONCRETE

REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER INFORMATION

NOTE: Concrete floors are to be filled and floated to meet standard smoothness and leveling per finished floor material requirements for preparing surface prior to installation of finished flooring. Change in floor levels shall be no greater than 1/8" in 10'-0" in all directions. Floor floor(s) as necessary to obtain this tolerance.

NOTE: Any concrete removal and patch batch, including but not limited to plumbing trenching, to include dowels tied into existing slab.

NOTE: Any concrete repair work shall include, but not limited to the following: removing the deteriorated concrete as shown and described on the drawings and in this specification, including saw cutting the perimeter of the repair area. Preparing the surface of the concrete for the repair, including abrasive cleaning, cleaning of existing reinforcement and applying bonding agent to the surface. Supplying, fabricating, constructing, maintaining and removing temporary works, including false work and formwork and the quality control (QC) testing of all materials.

NOTE: Concrete repair and leveling to conform American Concrete Institute Standard.

NOTE: Contractor to ensure that concrete polishing and sealing doesn't create slippery surface.

NOTE: Concrete floors shall be sealed.

EIFS-1

Item: EIFS Exterior Finish
Type: Match existing
Color: Match PT-1
Finish: Match existing
NOTE: Protect surface during construction.
Location: Refer to Plans, Elevations and Details.
Photo below for reference:



034800 PRECAST CONCRETE SPECIALTIES

REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER INFORMATION

DIVISION 4 MASONRY

042000 UNIT MASONRY

REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER INFORMATION

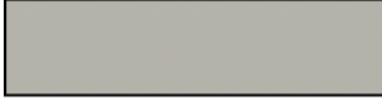
NOTE: Provide 4 submittal samples of all masonry finishes for Interior Designer approval prior to ordering of material and fabrication.

BRK-1

Item: Worn white brick
Mfg.: Authentic Brick
Name: Bloomfield Thin Brick
Color: Bloomfield
Size: Modular: 2.25" x 7.625"
Thickness: 0.625"
Joints: 3/8"
Representative Contact: Direct
Phone: 1.866.259.6263
Location: Refer to Plans and Elevations
Photo below for reference:



Grout for BRK-1:
Mfg.: MAPEI
Product: Mortar (Per GC)
Color: 01 ALABASTER
Photo below for reference:



044000 STONE 047300 MANUFACTURED STONE MASONRY

DIVISION 5 METALS

NOTE: Provide 4 submittal samples of all metal finishes to Bar Napkin Productions for approval prior to ordering of material and fabrication.

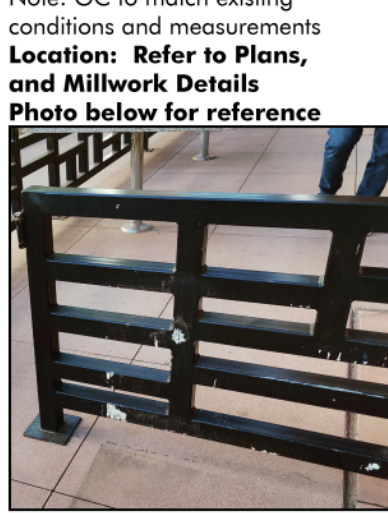
NOTE: All stainless steel to be provided and installed by food service vendor unless noted otherwise.

055100 METAL STAIRS 055200 METAL RAILINGS

RAIL-1

Item: Railing
Mfg.: TBD by GC
Size: 2 1/2" x 2 1/2" tube
steel to match existing
Finish: Black
Note: Sub to cut and remove interior detailing and keep intermediate supports, top and bottom rail
Note: GC to match existing conditions and measurements

Location: Refer to Plans, and Millwork Details
Photo below for reference

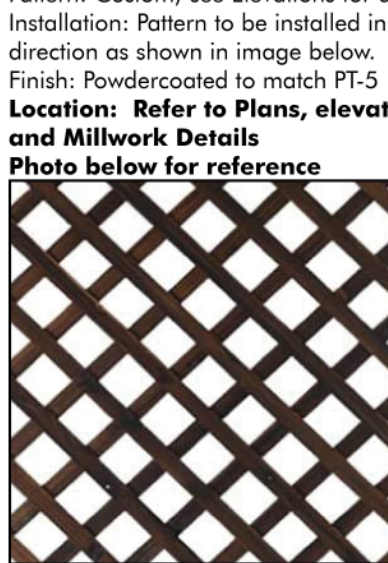


057000 ARCHITECTURAL AND ORNAMENTAL METAL FABRICATIONS

XMTL-1

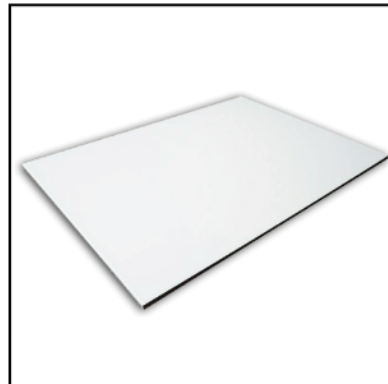
Item: Waffle Cone Perforated Metal Panel
Mfg.: Moz Designs or equivalent
Item Number: Custom
Size: 1" metal with 3"x3" opening, TBD by GC
Sheet Sizes: 48" x 120"

Pattern: Custom; see Elevations for details
Installation: Pattern to be installed in direction as shown in image below.
Finish: Powdercoated to match PT-5
Location: Refer to Plans, elevations, and Millwork Details
Photo below for reference



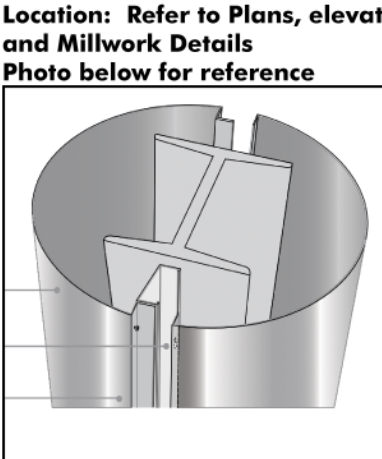
XMTL-2

Item: "Drip" Aluminum Panels
Mfg.: Signage consultant
Item Number: Custom
Size: Refer to elevations. Signage consultant and GC to coordinate with BNP on final size and pattern
Installation: Panels to be mounted to metal siding walls with standoffs; 1.5" proud of the wall
Finish: Powdercoated to match PT-2
NOTE: To be fabricated and installed by signage consultant
Location: Refer to Plans, elevations
Photo below for reference



XMTL-3

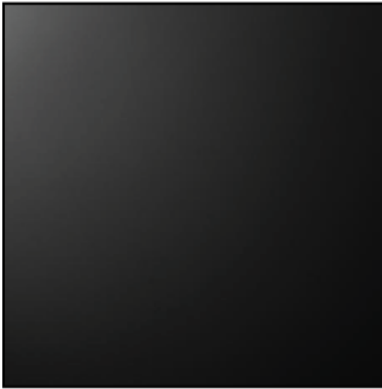
Item: Metal Column Cover
Mfg.: Moz Designs or equivalent
Item Number: CC100 Round
Size: 2" OD Diameter. Verify height in field.
Gauge: As needed, per GC
Installation: Vertical Butt Joint
Finish: Custom graphic image by Moz Designs. See image reference below. Confirm color locations and design with BNP before ordering.
Representative Contact: Jamie K. Sandford
Phone: 510.632.0853 Ext.140
Location: Refer to Plans, elevations, and Millwork Details
Photo below for reference



REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER INFORMATION

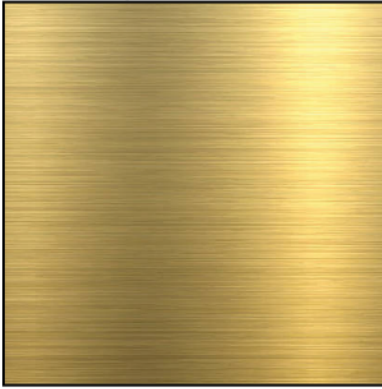
MTL-1

Item: Brake Metal
Mfg.: TBD by G.C.
Gauge: Per G.C.
Finish: Matte Black
Location: Refer to Plans, Elevations and Details.
Photo below for reference



MTL-2

Item: Brass Metal
Mfg.: Per G.C.
Gauge: Per G.C.
Finish: Brushed Brass
Location: Refer to Plans, Elevations, Details



057700 WIRE MESH & EXPANDED PERFORATED METAL

REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER INFORMATION

DIVISION 6 WOOD AND PLASTICS

06100 ROUGH CARPENTRY

NOTE: Provide metal stud cross bracing for support of equipment, finish hardware items and miscellaneous wall supported items.

NOTE: Provide blocking behind all wall mounted door stops, and as required for all millwork, etc.

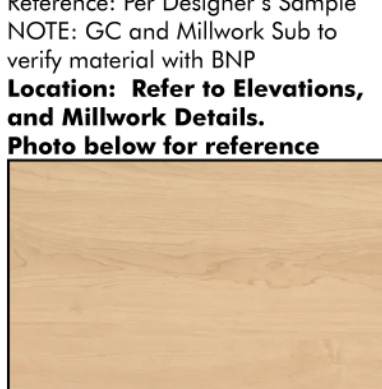
NOTE: All wood blocking, furring and backing shall be non-combustible fire retardant treated wood or metal. All required rated materials shall bear identification showing fire performance rating thereof.

06400 ARCHITECTURAL MILLWORK

WOOD-1

Item: Outdoor Bench
Mfg.: Custom Millwork
Material: Outdoor rated wood
Species: By GC
Cut: By GC
Finish: Natural Maple or similar.
UV protective coating

Reference: Per Designer's Sample
Location: Refer to Elevations, and Millwork Details.
Photo below for reference



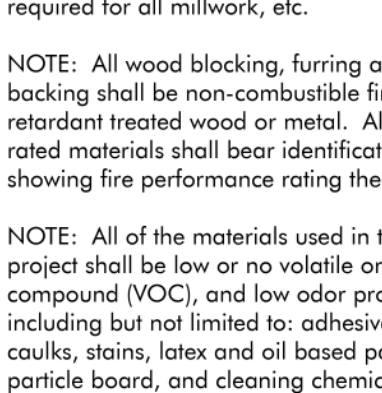
060550 SPECIALTY WOOD MATERIALS

060560 PLASTIC LAMINATES

LAM-1

Item: Laminate
Mfg.: Arbonne
Material: Laminate
Color: Black Satin
No: V7003 VR
Finish: Standard

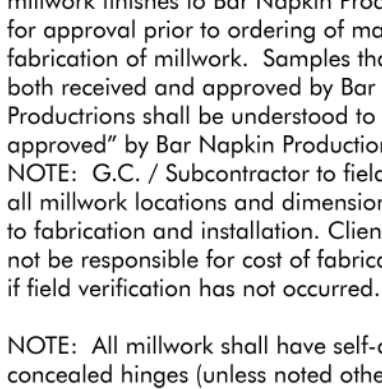
Location: Refer to Elevations and Millwork Details.
Photo below for reference



LAM-2

Item: Laminate
Mfg.: Wilsonart
Material: Laminate
Color: Maniloba Maple
No: 7911-60
Finish: Glass line finish - 28

Location: Refer to Elevations and Millwork Details.
Photo below for reference



060565 SLATWALL, PANELING 064020 CABINET HARDWARE

064360 STAIR COMPONENTS 064500 STANDING AND RUNNING TRIM

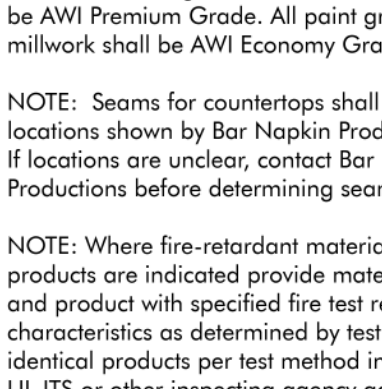
WOOD COUNTERS

QUARTZ/SOLID SURFACING COUNTERTOPS

SOLID-1

Item: Countertop
Mfg.: Corian
Color: Antartica
SKU: F0004
Size: 30"x144" Sheets
Thickness: 1/2"

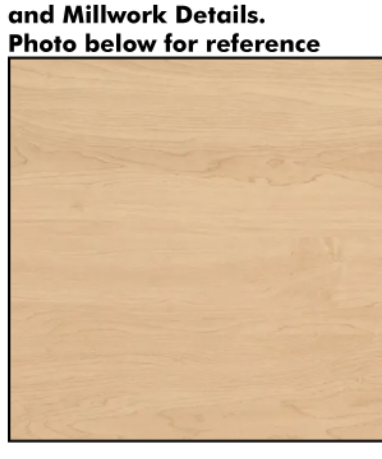
Finish: Polished Finish
Edge Profile: Triple bead
Location: Refer to Plans, and Millwork Details.
Photo below for reference



060530 WOOD VENEER

VNR-1

Item: Veneer
Mfg.: Custom
Material: Wood Veneer
Species: Maple
Cut: Rotary Cut
Finish: Natural; Clear polyurethane
Reference: Per Designer's Sample
Location: Refer to Elevations, and Millwork Details.
Photo below for reference



060550 SPECIALTY WOOD MATERIALS

060560 PLASTIC LAMINATES

LAM-1

Item: Laminate
Mfg.: Arbonne
Material: Laminate
Color: Black Satin
No: V7003 VR
Finish: Standard

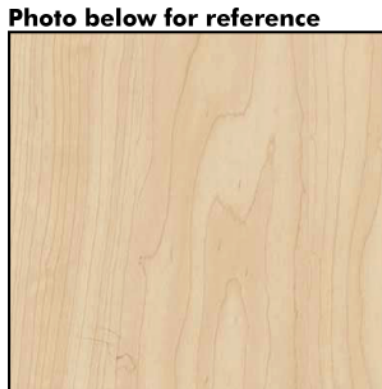
Location: Refer to Elevations and Millwork Details.
Photo below for reference



LAM-2

Item: Laminate
Mfg.: Wilsonart
Material: Laminate
Color: Maniloba Maple
No: 7911-60
Finish: Glass line finish - 28

Location: Refer to Elevations and Millwork Details.
Photo below for reference



060565 SLATWALL, PANELING 064020 CABINET HARDWARE

064360 STAIR COMPONENTS 064500 STANDING AND RUNNING TRIM

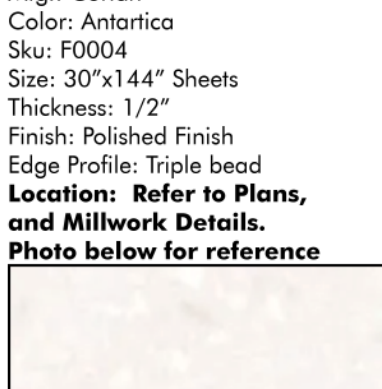
WOOD COUNTERS

QUARTZ/SOLID SURFACING COUNTERTOPS

SOLID-1

Item: Countertop
Mfg.: Corian
Color: Antartica
SKU: F0004
Size: 30"x144" Sheets
Thickness: 1/2"

Finish: Polished Finish
Edge Profile: Triple bead
Location: Refer to Plans, and Millwork Details.
Photo below for reference



060530 WOOD VENEER

OTHER MILLWORK

FOOTRAIL

Item: Bar Footrail Bracket
Mfg.: Kegworks
End Cap: 2" OD Flush Flat End
Cap: #BLK-76940-2
Finish: Natural; Clear polyurethane
Reference: Per Designer's Sample
Brackets: 2" OD - #BLK-990-XX
Cut: By GC
Finish: Natural Maple or similar.
UV protective coating

Reference: Per Designer's Sample
Location: Refer to Elevations, and Millwork Details.
Photo below for reference



060550 SPECIALTY WOOD MATERIALS

060560 PLASTIC LAMINATES

LAM-1

Item: Laminate
Mfg.: Arbonne
Material: Laminate
Color: Black Satin
No: V7003 VR
Finish: Standard

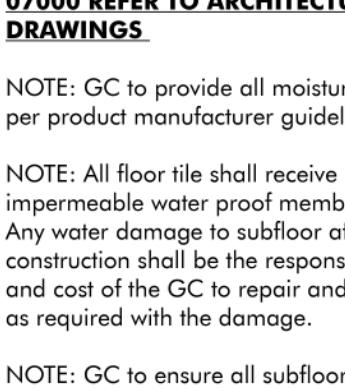
Location: Refer to Elevations and Millwork Details.
Photo below for reference



LAM-2

Item: Laminate
Mfg.: Wilsonart
Material: Laminate
Color: Maniloba Maple
No: 7911-60
Finish: Glass line finish - 28

Location: Refer to Elevations and Millwork Details.
Photo below for reference



060565 SLATWALL, PANELING 064020 CABINET HARDWARE

064360 STAIR COMPONENTS 064500 STANDING AND RUNNING TRIM

WOOD COUNTERS

QUARTZ/SOLID SURFACING COUNTERTOPS

SOLID-1

Item: Countertop
Mfg.: Corian
Color: Antartica
SKU: F0004
Size: 30"x144" Sheets
Thickness: 1/2"

Finish: Polished Finish
Edge Profile: Triple bead
Location: Refer to Plans, and Millwork Details.
Photo below for reference



060530 WOOD VENEER

2. Item: Blowing Door
Mfg.: By G.C. Elison or similar
Style: LWP-6 Aluminum Traffic Door
Material: .063" thick tempered aluminum
Size: Refer to Door Schedule
Base Plate: 12" high stainless steel (both sides)
Finish: black (both sides)
Hinge: Elison Easy Swing
Hinge System or equivalent
Window: Standard 9"x14" clear acrylic set in black rubber molding
Frame Material: Hollow Metal
Frame Finish: Refer to Door Schedule
Location: Refer to Floor Plans
Photo below for reference



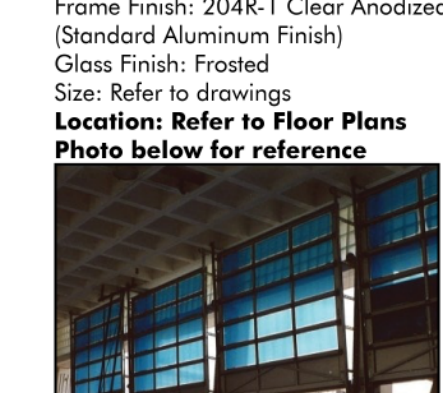
060550 SPECIALTY WOOD MATERIALS

060560 PLASTIC LAMINATES

LAM-1

Item: Laminate
Mfg.: Arbonne
Material: Laminate
Color: Black Satin
No: V7003 VR
Finish: Standard

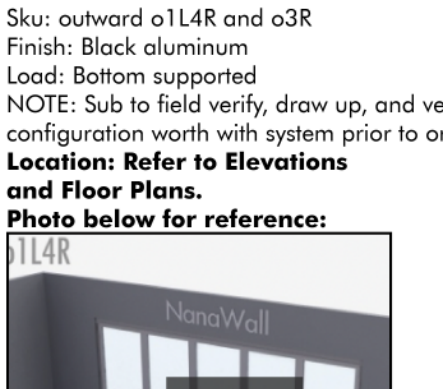
Location: Refer to Elevations and Millwork Details.
Photo below for reference



LAM-2

Item: Laminate
Mfg.: Wilsonart
Material: Laminate
Color: Maniloba Maple
No: 7911-60
Finish: Glass line finish - 28

Location: Refer to Elevations and Millwork Details.
Photo below for reference



060565 SLATWALL, PANELING 064020 CABINET HARDWARE

064360 STAIR COMPONENTS 064500 STANDING AND RUNNING TRIM

WOOD COUNTERS

QUARTZ/SOLID SURFACING COUNTERTOPS

SOLID-1

Item: Countertop
Mfg.: Corian
Color: Antartica
SKU: F0004
Size: 30"x144" Sheets
Thickness: 1/2"

Finish: Polished Finish
Edge Profile: Triple bead
Location: Refer to Plans, and Millwork Details.
Photo below for reference



060530 WOOD VENEER

instructions. All entry and exit doors shall have a closer (unless noted otherwise).

NOTE: All new and relocated doors shall have lever hardware (unless noted otherwise) in order to conform to current ADA and handicapped requirements. If hardware must be changed out, use existing cores if possible.

NOTE: Coordinate with Owner/Client for all master key or separate key requirements.

HARDWARE TYPES:

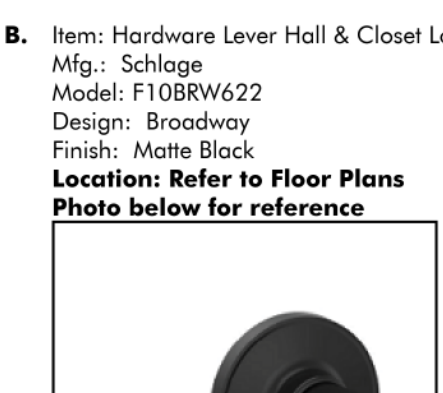
A. Item: Storefront Handle Set
Mfg.: Rejuvenation
Item #: C103241
Finish: Aged Brass
Representative Contact: Jonathan Kaler
Phone: 702.413.8933

Location: Refer to Floor Plans
Photo below for reference



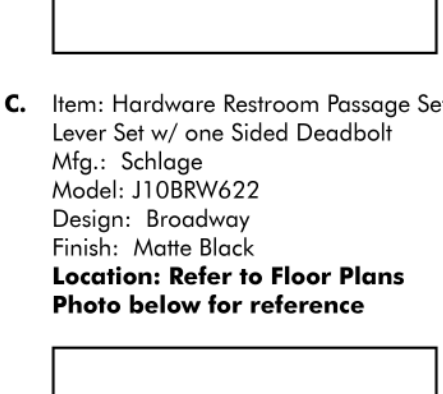
B. Item: Hardware Lever Hall & Closet Lock
Mfg.: Schlage
Model: F10BRW622
Design: Broadway
Finish: Matte Black

Location: Refer to Floor Plans
Photo below for reference



C. Item: Hardware Restroom Passage Set
Lever Set w/ one Sided Deadbolt
Mfg.: Schlage
Model: J10BRW622
Design: Broadway
Finish: Matte Black

Location: Refer to Floor Plans
Photo below for reference



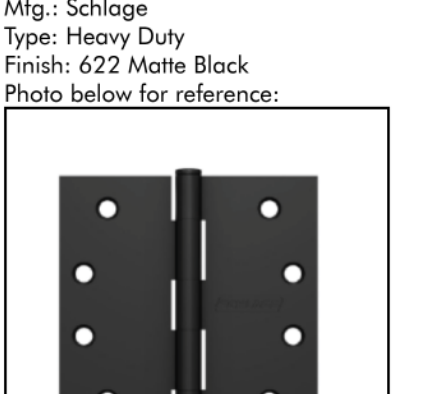
Item: One Sided Deadbolt w/
Occupancy Indicator
Mfg.: Schlage
Model: 8571
Finish: Matte Black 622
Notes: Thumbturn on inside
and privacy key on outside



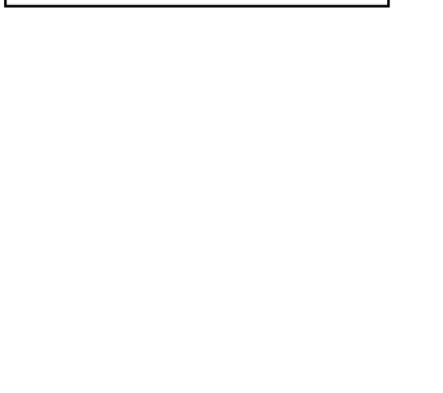
Item: 180 degree Interior Hinges
Mfg.: Schlage
Type: Heavy Duty
Finish: 622 Matte Black
Photo below for reference:



Item: 180 degree Interior Hinges
Mfg.: Schlage
Type: Heavy Duty
Finish: 622 Matte Black
Photo below for reference:



Item: 180 degree Interior Hinges
Mfg.: Schlage
Type: Heavy Duty
Finish: 622 Matte Black
Photo below for reference:



Item: 180 degree Interior Hinges
Mfg.: Schlage
Type: Heavy Duty
Finish: 622 Matte Black
Photo below for reference:



Item: Door Stop
Mfg.: Delta
Product #: DSW325U19
Finish: Black
Projection: 3-5/8"
Note: Door stop at all interior doors (typical).
Wall mount less than 4" AFF or as appropriate
Photo below for reference:



Item: Closure
Mfg.: Falcon
Series: Falcon SC81
Finish: 622 Matte Black (MTBK)
Photo below for reference:



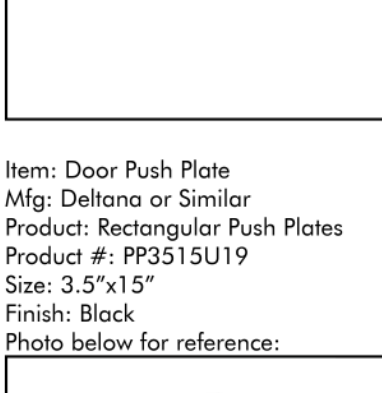
Item: Deadbolt
Mfg.: Schlage
Series: Single Cylinder Deadbolt B60
Finish: 622 Matte Black
Photo below for reference:



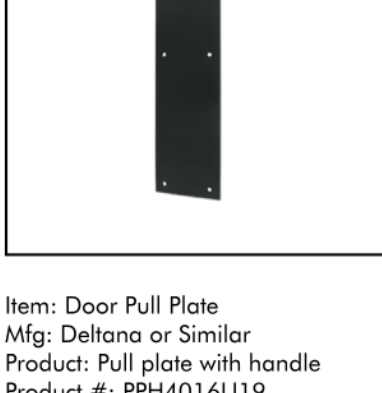
Item: Door Kick Plate
Mfg.: Delta or similar
Product: Kick Plate
Product #: KP1034U19
Size: 10" x 34"
Finish: Black
Photo below for reference:



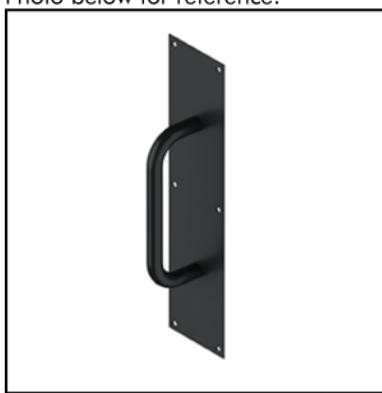
Item: Door Push Plate
Mfg.: Delta or Similar
Product: Rectangular Push Plates
Product #: PP315U19
Size: 3.5"x1.5"
Finish: Black
Photo below for reference:



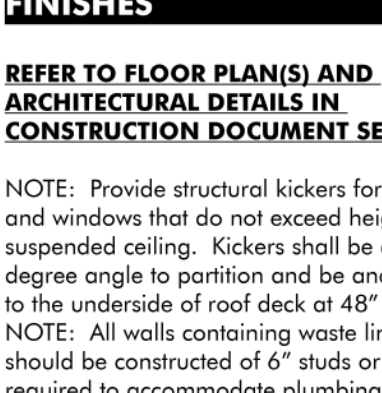
Item: Door Pull Plate
Mfg.: Delta or Similar
Product: Pull plate with handle
Product #: PH4016U19
Size: 4"x1.6"
Finish: Black
Photo below for reference:



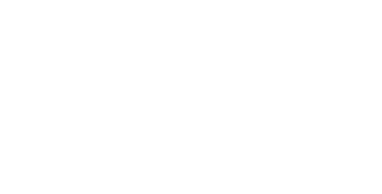
Item: Door Pull Plate
Mfg.: Delta or Similar
Product: Pull plate with handle
Product #: PH4016U19
Size: 4"x1.6"
Finish: Black
Photo below for reference:



Item: Door Pull Plate
Mfg.: Delta or Similar
Product: Pull plate with handle
Product #: PH4016U19
Size: 4"x1.6"
Finish: Black
Photo below for reference:



Item: Door Pull Plate
Mfg.: Delta or Similar
Product: Pull plate with handle
Product #: PH4016U19
Size: 4"x1.6"
Finish: Black
Photo below for reference:



NOTE: Dimensions are from finished face to finished face unless noted otherwise. Center partition on centerline of exterior window wall mullion, unless noted otherwise. Align partition with one side of column (or other plan element) or by pass side of column, either as indicated. Align new partitions with existing partition or other new partitions otherwise located. Partitions, end of partitions, and other elements which appear to align with each other are intended to align unless otherwise dimensioned. Perimeter walls below windows are to be taped, mudded, and painted with two prime coats and two finish coats. At termination of millwork at gypsum board partition, provide a minimum surface of 5/8" gypsum board wall face beyond the accepted millwork. Contractor to replace existing furring with new furrings at existing concrete block walls to insure that all electrical/telephone/data/misc.

NOTE: cover plates and junction boxes will flush out exactly to finished face so that no gaps exist. All penetration of existing fire-rated membranes shall be protected as required. Repair any damage to existing fire-protected materials.

NOTE: Furr out around all existing columns as shown if furring is not already existing.

NOTE: If existing partitions are to be extended or aligned with new partitions, field verify existing stud size and gypsum board thickness and match existing conditions.

NOTE: Finish alternates and substitutions shall not be used unless written approval by Bar Napkin Productions is obtained by General Contractor.

NOTE: Provide 4 submittal samples of all finishes for Bar Napkin Production's approval prior to ordering and installation of materials. Samples that are not both received and approved by Bar Napkin Productions shall be understood to be "not approved" by Bar Napkin Productions.

NOTE: All walls shall be constructed straight and true. Walls to receive wallcovering must be floated out, if required, and sized prior to installation of wallcovering.

NOTE: Where new wall aligns with existing, remove existing corner bead, tape transition, float and finish.

NOTE: Float existing walls as necessary and properly prepare to receive new wallcovering or paint.

NOTE: All walls to have Level 5 drywall/finish. Coat with drywall primer of high quality/high solids prior to the application of final paint.

Item: Gypsum Wall Board
Texture: Smooth
Location: At new wall unless noted otherwise.

Item: Water-resistant gypsum board
Location: At all wet walls and adjacent side walls.

NOTE: Ceramic tile is required from the floor to minimum 48" high on walls behind plumbing fixtures and out 24" on adjacent side walls, if not already existing.

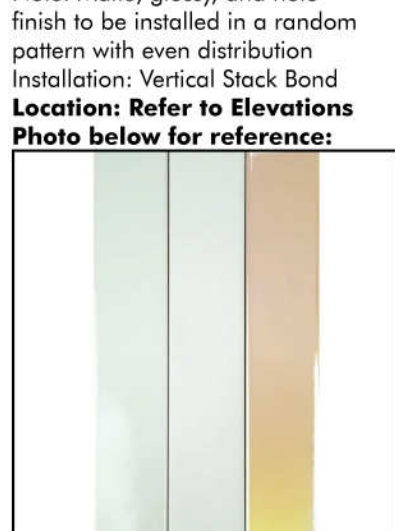
NOTE: G.C. and Subcontractor are responsible to inspect all product prior to install and notify the manufacturer of any defects, bowing, warpage, etc. If G.C. and/or Subcontractor installs product that is defective, warped, bowed, etc it shall be reinstated and replaced at the cost of the G.C. and/or Subcontractor and shall not

WTILE-2

Item: Wall Tile
Mfg.: Nemo
Series: Glow
Size: 2" x 10"
Thickness: 8mm
Color: Glow Rain Hologram
Finish: Mixed
Joints: 1/8"

Representative Contact: Stacey Marino Puopolo
Phone: 339.226.1161
Note: Matte, glossy, and halo finish to be installed in a random pattern with even distribution

Installation: Vertical Stack Bond
Location: Refer to Elevations
Photo below for reference:



Grout for WTILE-2

Mfg.: MAPEI
Color: 77 Frost

Photo below for reference:

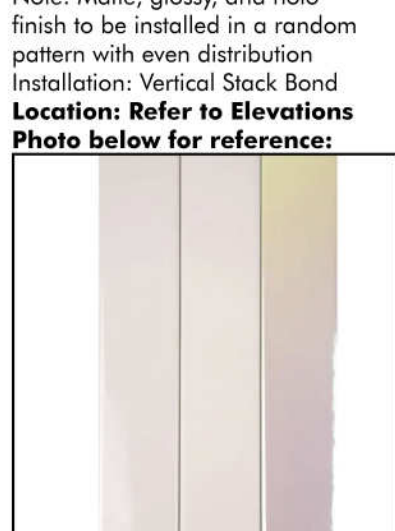


WTILE-3

Item: Wall Tile
Mfg.: Nemo
Series: Glow
Size: 2" x 10"
Thickness: 8mm
Color: Glow Blush Hologram
Finish: Mixed
Joints: 1/8"

Representative Contact: Stacey Marino Puopolo
Phone: 339.226.1161
Note: Matte, glossy, and halo finish to be installed in a random pattern with even distribution

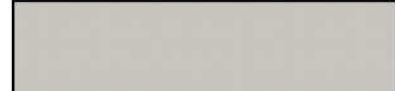
Installation: Vertical Stack Bond
Location: Refer to Elevations
Photo below for reference:



Grout for WTILE-3

Mfg.: MAPEI
Color: 77 Frost

Photo below for reference:



WTILE-4

Item: Wall Tile
Mfg.: Concrete Collaborative
Series: Venice
Size: 12"x12"
Thickness: 5/8"
Color: Alabaster L Mix C
Finish: Matte
Joints: 1/8"

Installation: Stacked bond
Location: Refer to Elevations
Photo below for reference:



Grout for WTILE-4

Mfg.: MAPEI
Color: 10 Black

Note: Grout to be outdoor rated in exterior locations
Photo below for reference:



WTILE-5

Item: Wall Tile
Mfg.: Concrete Collaborative
Series: Venice
Size: 3/16" x 3/16"
Thickness: 3/4"
Color: Alabaster L Mix C
Finish: Matte
Joints: 3/16" - 1/4" Minimum

Installation: Stacked bond
Location: Refer to Elevations
Photo below for reference:



Grout for WTILE-4

Mfg.: MAPEI
Color: 10 Black

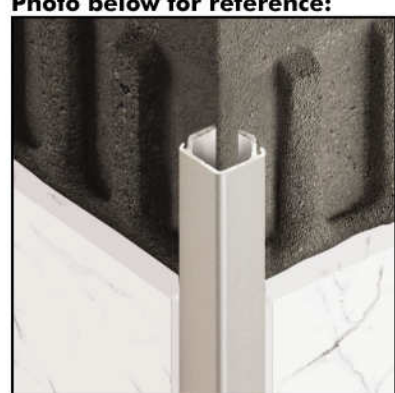
Note: Grout to be outdoor rated in exterior locations
Photo below for reference:



093095 INSTALLATION MATERIALS AND SPECIALTIES

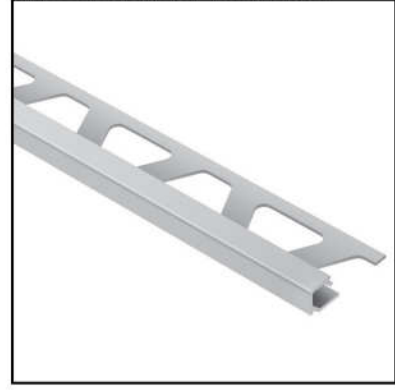
MTE-1

Item: Edge Profile - Exposed corners
Mfg.: Schluter
Product: Quodec-k or similar
Height: Refer to elevations
Finish: Brushed chrome anodized
Location: Refer to Elevations
Photo below for reference:



MTE-2

Item: Edge Profile - Exposed Corner
Mfg.: Schluter
Product: Quodec
Height: Flooring Sub to determine final size based off tile specified.
Finish: Brushed chrome anodized
Location: Refer to Elevations
Photo below for reference:



MTE-3

Item: Cove profile for floor/wall transitions
Mfg.: Schluter
Product: DILEX-AHK
Finish: Brushed chrome anodized
Location: Refer to Elevations
Photo below for reference:



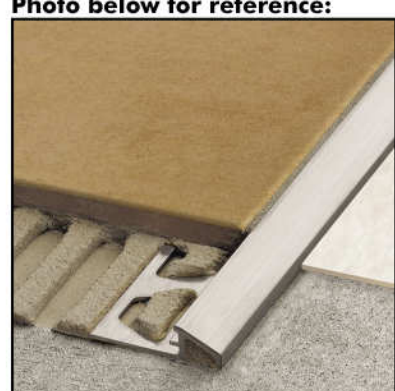
FTE-1

Item: Floor Transition
Mfg.: Schluter
Product: Schiene
Finish: Black
Location: Refer to Plans
Photo below for reference:



FTE-2

Item: Threshold
Mfg.: Schluter
Product: Reno-U
Material: Aluminum
Finish: Black
Location: Refer to Plans
Photo below for reference:



CM-1

Item: Crown Moulding
Mfg.: Ekena Millwork
Product: CM525 Crown Flexible Moulding
Dimensions: 5.25" Face x 3/4" T x 144" L
Finish: Painted to match #T-4
Location: Refer to Elevations
Photo below for reference:



095000 CEILING

REFER TO REFLECTED CEILING FINISH PLANS.

NOTE: Verify ceiling height throughout.

NOTE: Reuse existing ceiling tiles in as is condition, unless damaged, except those areas impacted by new construction.

NOTE: In areas of new construction all ceiling tile shall either be all new or all existing/relocated within a room or area - do not mix existing/relocated with new ceiling tile.

C-1

Item: Gypsum Board
Finish: Painted as specified
Location: Refer to RCP's
Photo below for reference:



096000 FLOORING

NOTE TO CONTRACTOR: FLOORING SPECIFIED MAY HAVE LONG LEAD TIMES. PLEASE PROCURE ACCORDINGLY.

NOTE: ALL FLOORING TO RUN UNDER MILLWORK, UNO.

NOTE: Thresholds shall be flush with adjacent flooring or meet ADA requirements for flooring level changes. Changes in flooring levels up to 1/4" may be vertical and without edge treatment. Changes in flooring levels between 1/4" and 1/2" shall be beveled with a slope no greater than 1:2. Changes in flooring levels greater than 1/2" are not permitted for thresholds.

NOTE: Properly prepare all floors to receive new flooring. Remove existing glue, clean floors, float, patch and repair cracks as required.

NOTE: All flooring transitions shall be flush height.

NOTE: Bevel and smooth edges of all field cut tile at all tile to carpet transitions. Tile and carpet shall be flush height.

NOTE: G.C. and Subcontractor are responsible to inspect all product prior to install and notify the manufacturer of any defects, bowing, warpage, etc. If G.C. and/or Subcontractor installs product that is defective, warped, bowed, etc it shall be reinstalled and replaced at the cost of the G.C. and/or Subcontractor and shall not be the responsibility of the Owner/Client or Bar Napkin Productions.

NOTE: Order extra tiles for maintenance and deliver to Owner/Client. Materials must be in manufacturer's packaging.

NOTE: In addition to complying with all pertinent codes and regulations, conform to ANSI - American Standard Specification for the Installation of Ceramic tile.

NOTE: Performance Requirements: Dynamic Coefficient of Friction: For tile installed on walkway surfaces, provide product with the following values as determined by testing identical products per ASTM C 1028; ANSI A137.

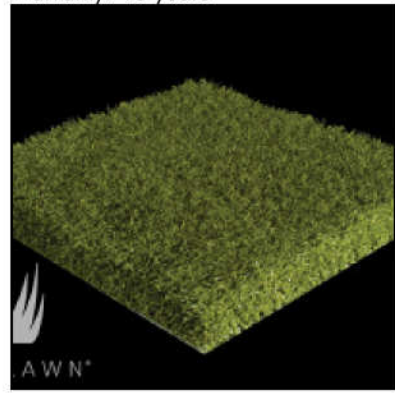
- All Horizontal surfaces: Minimum 0.42 Wet
- Step Treads: Minimum 0.42 Wet

NOTE: Other materials: Including adhesives not specifically described but required for a complete and proper installation of tiles, shall be only as recommended by the manufacturer of material to which it is applied.

096200 SPECIALTY FLOORING

TURF-1

Item: Syn Lawn Arizona
Mfg.: SYNRYE 211
Sku: SR211
Total weight: 88 oz.
Warranty: 15 years



Trim for TURF-1

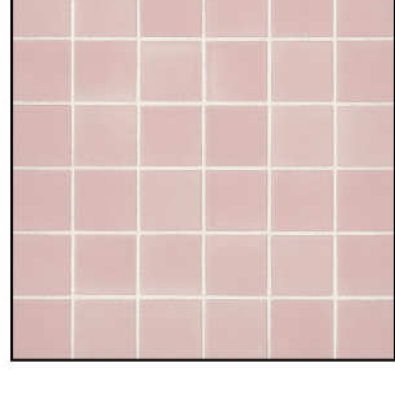
Product: Vinyl ramp edging
Mfg.: Sports Edge or similar
Color: Black
Size: Thinnest possible width while maintaining ADA compliance
Photo below for reference:



096300 MASONRY, STONE AND TILE FLOORING

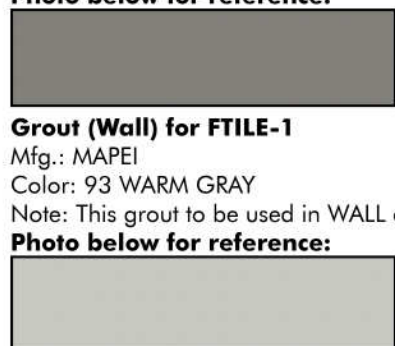
FTILE-1

Item: Pink Restroom Tile
Mfg.: Bedrosians Tile & Stone
Series: True
Product: Porcelain Mosaic Tile
Size: 2x2 Mosaic
Thickness: 1/4"
Color: Pink
Finish: Matte
DCOF: >0.42
Representative Contact: Tony Patino
Phone: 480.228.5816
Location: Refer to Plans
Photo below for reference:



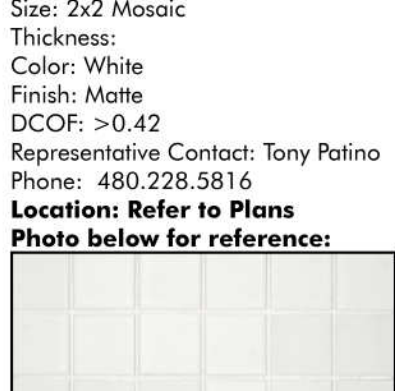
Grout (Floor) for FTILE-1

Mfg.: MAPEI
Color: 107 IRON
Note: This grout to be used in FLOOR application
Photo below for reference:



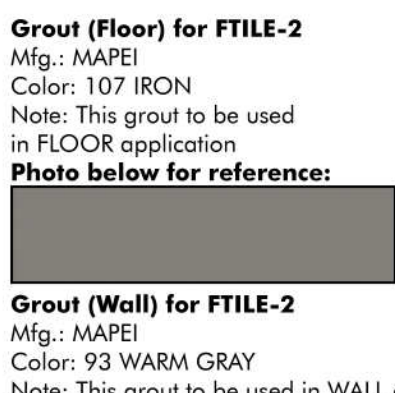
Grout (Wall) for FTILE-1

Mfg.: MAPEI
Color: 93 WARM GRAY
Note: This grout to be used in WALL application
Photo below for reference:



FTILE-2

Item: White Restroom Tile
Mfg.: Bedrosians Tile & Stone
Series: True
Product: Porcelain Mosaic Tile
Size: 2x2 Mosaic
Thickness: Color: White
Finish: Matte
DCOF: >0.42
Representative Contact: Tony Patino
Phone: 480.228.5816
Location: Refer to Plans
Photo below for reference:



Grout (Floor) for FTILE-2

Mfg.: MAPEI
Color: 107 IRON
Note: This grout to be used in FLOOR application
Photo below for reference:

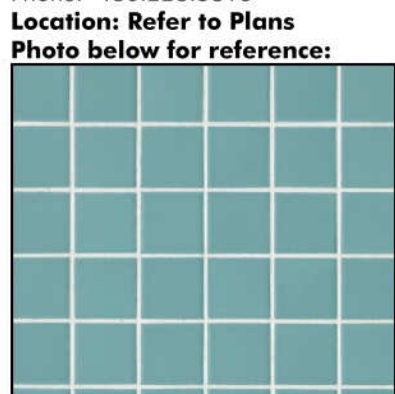


Grout (Wall) for FTILE-2

Mfg.: MAPEI
Color: 93 WARM GRAY
Note: This grout to be used in WALL application
Photo below for reference:

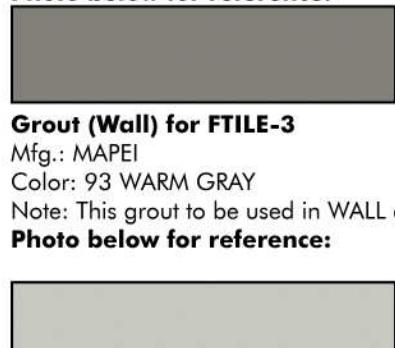
FTILE-3

Item: Teal Restroom Tile
Mfg.: Bedrosians Tile & Stone
Series: True
Product: Porcelain Mosaic Tile
Size: 2x2 Mosaic
Thickness: Color: Aqua
Finish: Matte
DCOF: >0.42
Representative Contact: Tony Patino
Phone: 480.228.5816
Location: Refer to Plans
Photo below for reference:



Grout (Floor) for FTILE-3

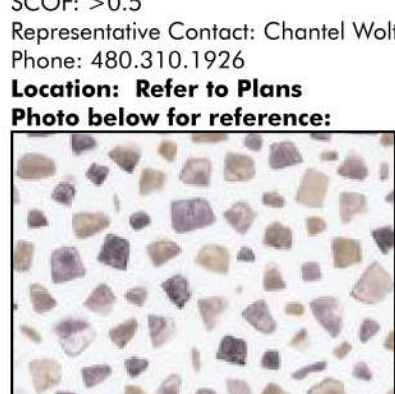
Mfg.: MAPEI
Color: 107 IRON
Note: This grout to be used in FLOOR application
Photo below for reference:



096500 RESILIENT FLOORING

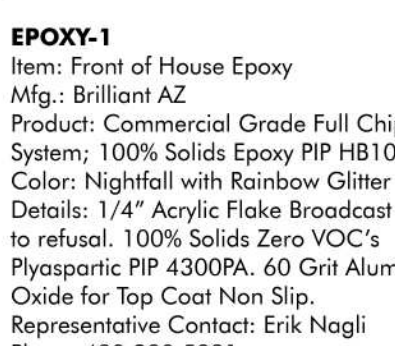
LVP-1

Item: Back Dining Room LVP
Mfg.: Patcraft
Product: Luxury Vinyl Plank
Collection: Create in Place
Product #: ITERATE I638V
Size: 9"x36"
Color: SHIFFVI 00900
SCOF: >0.5
Representative Contact: Chantal Walters
Phone: 480.310.1926
Location: Refer to Plans
Photo below for reference:



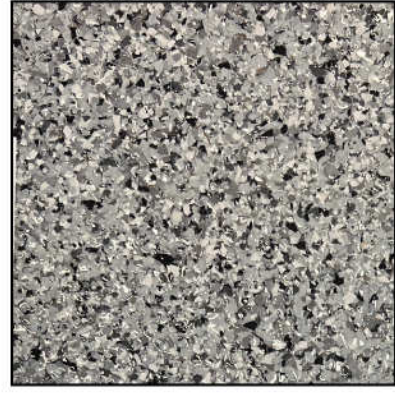
Grout (Floor) for FTILE-1

Mfg.: MAPEI
Color: 107 IRON
Note: This grout to be used in FLOOR application
Photo below for reference:



Grout (Wall) for FTILE-1

Mfg.: MAPEI
Color: 93 WARM GRAY
Note: This grout to be used in WALL application
Photo below for reference:



FTILE-2

Item: White Restroom Tile
Mfg.: Bedrosians Tile & Stone
Series: True
Product: Porcelain Mosaic Tile
Size: 2x2 Mosaic
Thickness: Color: White
Finish: Matte
DCOF: >0.42
Representative Contact: Tony Patino
Phone: 480.228.5816
Location: Refer to Plans
Photo below for reference:



Grout (Floor) for FTILE-2

Mfg.: MAPEI
Color: 107 IRON
Note: This grout to be used in FLOOR application
Photo below for reference:

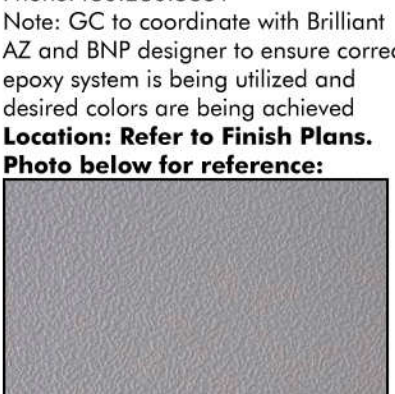


Grout (Wall) for FTILE-2

Mfg.: MAPEI
Color: 93 WARM GRAY
Note: This grout to be used in WALL application
Photo below for reference:

EPOXY-2

Item: Back of House Epoxy
Mfg.: Brilliant AZ
Product: Commercial Grade Silica Floor System
Kitchens: 100% Solids Epoxy PIP HB1000
Color: Solid Grey
Details: 30 Grit Silica Broadcast to refusal. 100% Solids Zero VOC's Polyisocyanate PIP 4300PA USDA Approved Food Grade Top Coat.
Representative Contact: Erik Nagli
Phone: 480.280.5831
Note: GC to coordinate with Brilliant AZ and BNP designer to ensure correct epoxy system is being utilized and desired colors are being achieved
Location: Refer to Finish Plans.
Photo below for reference:

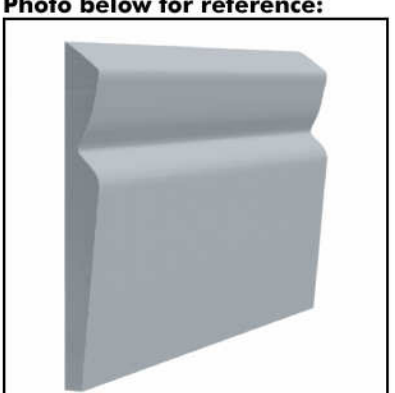


096800 CARPETING

096900 ALL BASE, COVE BASE, AND BASEBOARDS

B-1

Item: Vinyl Wall Base
Mfg.: ROPPE
Product: #80 Divine PV4080
Height: 4 1/2"
Color: 100 Black
Location: Refer to Elevations.
Photo below for reference:



B-2

Item: Back of House Epoxy Cove Base
Mfg.: Brilliant AZ
Product: Commercial - Industrial Flooring System
Height: 6"
Color: Solid Grey
Representative Contact: Erik Nagli
Phone: 480.280.5831
Note: GC to coordinate with Brilliant AZ to ensure correct epoxy system is being utilized and desired colors are being achieved
Note: Brilliant AZ to ensure base meets all back of house waterproofing codes
Location: Refer to Finish Plans.
Photo below for reference:



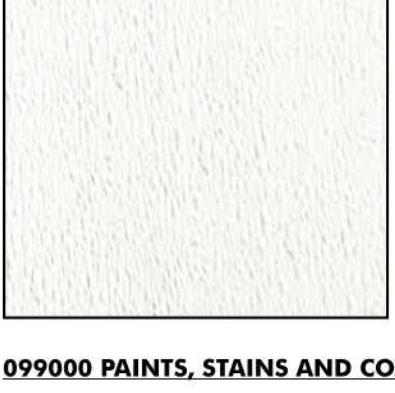
EPOXY-1

Item: Front of House Epoxy
Mfg.: Brilliant AZ
Product: Commercial Grade Full Chip System: 100% Solids Epoxy PIP HB1000
Color: Nightfall with Rainbow Glitter
Details: 1/4" Acrylic Flake Broadcast to refusal. 100% Solids Zero VOC's Polyisocyanate PIP 4300PA. 60 Grit Aluminum Oxide for Top Coat Non Slip.
Representative Contact: Erik Nagli
Phone: 480.280.5831
Note: GC to coordinate with Brilliant AZ and BNP designer to ensure correct epoxy system is being utilized and desired colors are being achieved
Location: Refer to Finish Plans.
Photo below for reference:



PT-4

Item: Paint
Mfg.: Sherwin Williams
Color Name: Tricorn Black
Product #: SW6258
Light Reflectance Value: 3
Location: Refer to Plans/Elevs
Photo below for reference:



099000 PAINTS, STAINS AND COATINGS

NOTE: All gypsum board surfaces shall be two coats, latex, prep surfaces per paint manufacturer recommendations. All metal, trim and surfaces per paint manufacturer recommendations. All metal, trim and sash shall be two coats, oil base, over manufacturer recommended primer coat. All applications shall use manufacturer recommended extender agents in order to reduce brush marks.

NOTE: Provide 4 submittal samples of all paint finishes for Bar Napkin Production's approval prior to ordering of material and installation. Samples that are not both received and approved by Bar Napkin Productions shall be understood to be "not

approved" by Bar Napkin Productions.

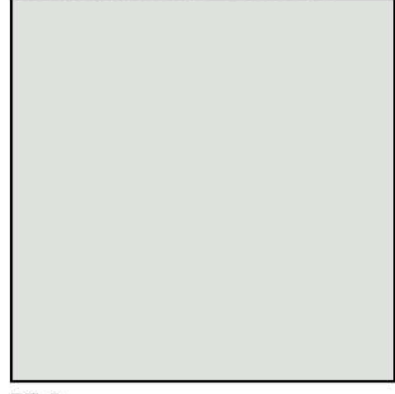
NOTE: Requirement of field painted mock-up samples for Bar Napkin Production's review and approval prior to purchase of all paint to be confirmed.

Painting Sheen Notes:

- Eggshell finish throughout, U.N.O. below
- Flat finish at all exposed ceiling painting
- Semi-Gloss finish at all areas of food prep, kitchen, janitor, self-service food/beverage
- Semi-Gloss finish at all restroom walls
- Semi-gloss Electrostatic at all Elevator Doors

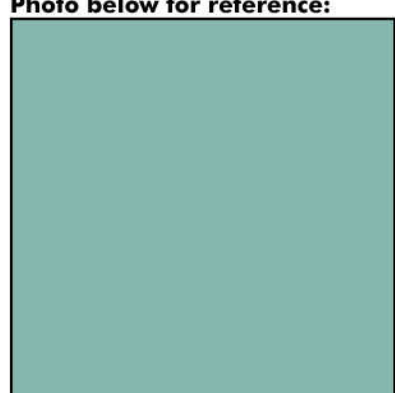
PT-1

Item: Paint
Mfg.: Sherwin Williams
Color Name: Rock Candy
Product #: SW6231
Light Reflectance Value: 75
Location: Refer to Plans/Elevs
Photo below for reference:



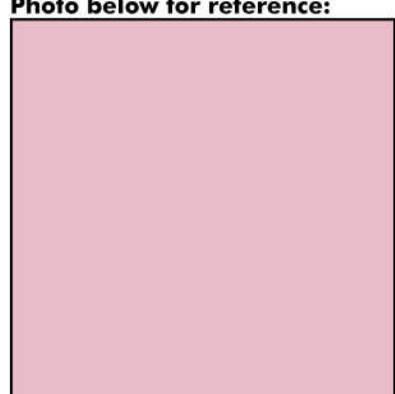
PT-2

Item: Paint
Mfg.: Sherwin Williams
Color Name: Cooled Blue
Product #: SW6759
Light Reflectance Value: 41
Location: Refer to Plans/Elevs
Photo below for reference:



PT-3

Item: Paint
Mfg.: Sherwin Williams
Color Name: Rose Colored
Product #: SW6303
Light Reflectance Value: 52
Finish: Black
Location: Refer to Plans/Elevs
Photo below for reference:



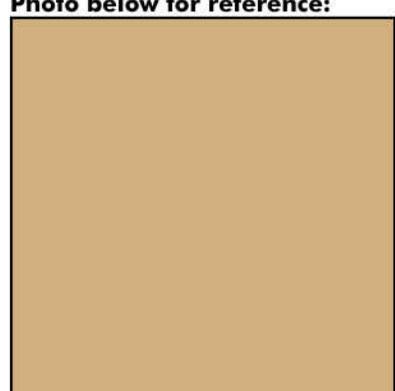
PT-4

Item: Paint
Mfg.: Sherwin Williams
Color Name: Tricorn Black
Product #: SW6258
Light Reflectance Value: 3
Location: Refer to Plans/Elevs
Photo below for reference:



PT-5

Item: Paint
Mfg.: Sherwin Williams
Color Name: Golden Fleece
Product #: SW6388
Light Reflectance Value: 46
Location: Refer to Plans/Elevs
Photo below for reference:



DIVISION 10 SPECIALTIES

REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER INFORMATION

ALL TO BE DETERMINED:

Interior signage and wayfinding, wall and corner protections, lockers, storage shelving and racks, closet specialties, window shades and structures.

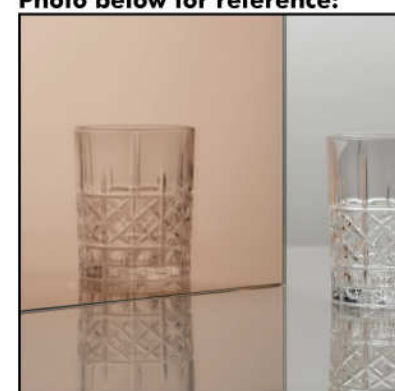
- Drinking fountain per

- Architectural Drawings
- Toilet specialties per Architectural and Engineering Drawings
- Fireplace per Architectural Drawings

102000 INTERIOR SPECIALTIES

GLASS-1

Item: Sneeze-guard Glass
Mfg.: Goldray Glass
Color: Copper Cyan Orange
Finish: Tinted Mirror Gloss
Thickness: 1/4"
Location: Refer to Plans/Elevs
Photo below for reference:



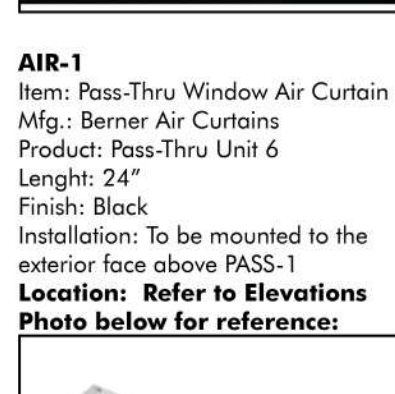
TV-1

Item: 50" TV
Mfg.: Per client
Mounting: Telescoping or pivot
Note: Each TV location should have 1 duplex, 1 data with CAT6 line of rack, and 1 CAT6 connection point
Location: Refer to Elevations



AIR-1

Item: Pass-Thru Window Air Curtain
Mfg.: Berner Air Curtains
Product: Pass-Thru Unit 6
Length: 24"
Finish: Black
Installation: GC to secure to countertop surface
Location: Refer to Elevations
Photo below for reference:



TP-1

Item: Urinal Wall Mounted Screen
Mfg.: Hadrian
Product: Solid Plastic Toilet Partitions
Color/Finish: Black
Style: Wall Mounted Screen
Note: Coordinate to Building specifications.
Location: Refer to Elevations
Photo below for reference:



DIVISION 11 EQUIPMENT

REFER TO FOOD SERVICE DRAWINGS FOR ALL OTHER INFORMATION

DIVISION 12 FURNISHINGS

120000 FURNITURE AND ART

BOTTLE-1

Item: Decorative Milk Bottles
Mfg.: Libbey Foodservice
Product: Beverage Service Milk Bottle
Color: Clear; to be painted white by client
Dimension: 3.88" Dia. x 8.5" H
NOTE: FFE to be provided by the client
Location: Refer to Elevations
Photo below for reference:



REFER TO FURNITURE PLAN(S) IN CONSTRUCTION DOCUMENT SET

NOTE: All furniture shown is by Client/Owner, unless noted otherwise.

122000 WINDOW TREATMENTS

Note: REMOTE CONTROL SYSTEM TO BE DETERMINED FOR ALL ELECTRICAL TO BE COORDINATED

DIVISION 13 SPECIAL CONSTRUCTION

REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER INFORMATION

DIVISION 14 CONVEYING SYSTEMS

REFER TO ARCHITECTURAL DRAWINGS FOR ALL OTHER INFORMATION

NOTE: Refer to interior elevations and standard finish material specifications for all interior elevator cab, information if required.

DIVISION 21 FIRE SUPPRESSION

REFER TO OTHER. NOTE: MAY BE SEPARATE SUBMITTAL

NOTE: Fire sprinkler approvals are NOT included under this permit. Before commencing any work on the sprinkler system, separate sprinkler plans must be submitted and approved by the Department of Building Safety. The system must be inspected and approved by Building Safety prior to issuance of a Certificate of Occupancy.

NOTE: Provide/extend automatic fire sprinkler heads to suit new construction as necessary to conform to all local governing requirements.

NOTE: At acoustical tile ceilings, fire sprinkler heads shall match existing tenant standard style and finish, or if sprinkler system is new sprinkler heads shall be semi-recessed chrome with chrome escutcheons, unless noted otherwise.

NOTE: At all gypsum board ceilings, fire sprinkler heads shall be concealed flush style in color to match ceiling color. Have head plates factory painted to match ceiling color as necessary.

LIFE SAFETY

Provide Building Standard Life Safety System as required by local and governing authorities.

NOTE: Mount fire alarm pulls at 48" A.F.F. maximum to top of unit. Mount strobes and annunciators at 80" A.F.F. or 6" below the ceiling, whichever is lower. Fire alarm system shall comply with ADA requirements. Verify all locations with Bar Napkin Productions.

KFEC
Item: Kitchen Fire Extinguisher/
Cabinet-recessed
Quantity: Refer to floor plan
Mfg.: J.L. Industries
Product: 1026V10 Academy
Finish: #180 clear anodized aluminum
Rough wall opening: 11 1/2" W x 25"H x 4 1/2" D (non-rated wall)
Extinguisher: Saturn Wet Chemical - Class K Extinguisher
Location: Refer to Plan - within 30'-0" of cooking equipment

NOTE: Provide fire extinguishers as necessary per Fire Marshall's location. Fire extinguishers shall be mounted at 48" A.F.F

MIRROR-2

Item: Full Length Mirror
Quantity: Refer to Plan
Mfg.: West Elm
Product: Metal Frame Floor Mirror
Product #: 9655958
Size: 30" w x 72" h
NOTE: Mirrors shall be installed in location shown. Mirrors shall be mounted with bottom edge at top of backsplash, (40" A.F.F. maximum).
Representative Contact: Jonathan Kaler
Phone: 702.413.8933

Location: Refer to Plans/Elevs

Photo below for reference:



DIVISION 23

HVAC

REFER TO ENGINEERING DRAWINGS FOR ALL OTHER INFORMATION

NOTE: All Access Panels to be in Grid Ceiling whenever possible. Any hard lid access panels to be discreet and unobtrusive in their location.

NOTE: Field verify whether existing ceiling is ducted or common air plenum.

NOTE: Mechanical subcontractor shall visit the site in order to verify approximate HVAC coverage. Determine the total number of existing tons of A/C available for this tenant improvement.

NOTE: Mechanical subcontractor shall field verify existing mechanical system above new gypsum board ceilings and soffits to assure proper heights and arrangements of equipment.
NOTE: All HVAC equipment must not exceed height of parapet walls. Openings at roof must conform to roofing specifications and structural engineer's framing.

NOTE: System to be properly balanced prior to tenant occupancy.

DIVISION 25

INTEGRATED AUTOMATION

NOT USED

DIVISION 26

ELECTRICAL

REFER TO ENGINEERING DRAWINGS FOR ALL OTHER INFORMATION

NOTE TO CONTRACTOR: LIGHTING SPECIFIED MAY HAVE LONG LEAD TIMES. PLEASE PROCURE ACCORDINGLY.

NOTE: Electrical subcontractor to visit site prior to bid or estimate.

16500 LIGHTING FIXTURES

REFER TO ELECTRICAL LIGHTING PLAN(S) IN CONSTRUCTION DOCUMENT SET

NOTE: Lighting fixture alternates and substitutions shall not be used unless written approval by Bar Napkin Productions is obtained by General Contractor.

NOTE: All lamps used in this project shall comply with the most current lighting regulations and codes as required by local and governing authorities.

NOTE: Provide 4 submittal cut sheets of all new lighting fixtures for Bar Napkin Production's approval prior to ordering and installation of lighting fixtures. Submittals that are not both received and approved by Bar Napkin Productions shall be understood to be "not approved" by Bar Napkin Productions.

NOTE: Relocate and/or provide new tenant standard switches in order to suit new construction. Provide new cover plates for existing switches as necessary. All outlets and switches shall be the same color. Mounting height for new/relocated switches to be 48" A.F.F. to top of switch cover plates unless noted otherwise. Existing switches to remain unless otherwise noted
Switch Color:

NOTE: Relocate and/or provide new tenant standard light fixtures as necessary to suit new construction.

NOTE: Provide illuminated exit signs, battery packs/ emergency lighting and continuous illumination circuits as required by local and governing authorities.

DIVISION 27

COMMUNICATIONS

16700 TELEPHONE REQUIREMENTS

REFER TO ELECTRICAL POWER PLAN(S) IN CONSTRUCTION DOCUMENT SET

NOTE: General Contractor shall provide conduit and J-Box or mud ring and string for all telephone outlets. Verify existing tenant or building standard and match.

NOTE: Combine telephone and data if outlets are shown as combined.

NOTE: Mounting height for new/relocated telephone outlets to be 15" A.F.F. to the bottom of outlet cover plates unless noted otherwise. Electrical/telephone/ data outlet combinations to be mounted other side of the same stud. Stagger outlets from one side to the other of walls to inhibit transfer of sound.

NOTE: All cable (transmission wire) provided and installed by Tenant as follows:

Tenant to provide feeder cable from the building

telephone/electric room (closest location on floor to suite) to telephone switch gear within suite.

Tenant to provide cable from telephone switch to all telephone outlets as shown on plan.

Tenant to provide telephone switch equipment as per their needs and requirements.

Tenant to provide new cover plates for existing telephone outlets as necessary.

Tenant to provide telephone outlets as shown.

Tenant to provide new telephone outlets for wall phones as shown. Mounting height for wall telephone outlets to be 48" A.F.F. to the top of outlet cover plates unless noted otherwise.

Tenant to provide dedicated phone outlet for fax as shown.

Tenant to provide flush floor telephone outlets as shown.

16800 DATA REQUIREMENTS

REFER TO ELECTRICAL POWER PLAN(S) IN CONSTRUCTION DOCUMENT SET

NOTE: General Contractor shall provide conduit and J-Box or mud ring and string for all data outlets. Verify existing tenant or building standard and match.

NOTE: Combine telephone and data if outlets are shown as combined.

NOTE: Mounting height for new/relocated data outlets to be 15" A.F.F. to the bottom of outlet cover plates unless noted otherwise. Electrical/telephone/ data outlet combinations to be mounted other side of the same stud. Stagger outlets from one side to the other of walls to inhibit transfer of sound.

NOTE: General Contractor shall provide J-Boxes (separate from electrical) to feed data for systems furniture as shown. Combine telephone and data if outlets are shown as combined.

NOTE: All cable (transmission wire) provided and installed by Tenant as follows:

Tenant to provide cable from telephone switch or patch panel to all data outlets as shown on plan.

Tenant to provide all equipment and connection/patch equipment as per their needs and requirements.

Tenant to provide new cover plates for existing data outlets as necessary.

Tenant to provide data outlets as shown.

NOTE: Tenant to provide flush floor data outlets as shown.

DIVISION 28

SAFETY AND SECURITY

REFER TO OTHER

BNP

BAR NAPKIN PRODUCTIONS

2828 N Central Ave, Ste 1300, Phoenix, AZ 85004
602.492.9494 | bnp-llc.com



BN1580 JOJO'S SHAKE BAR

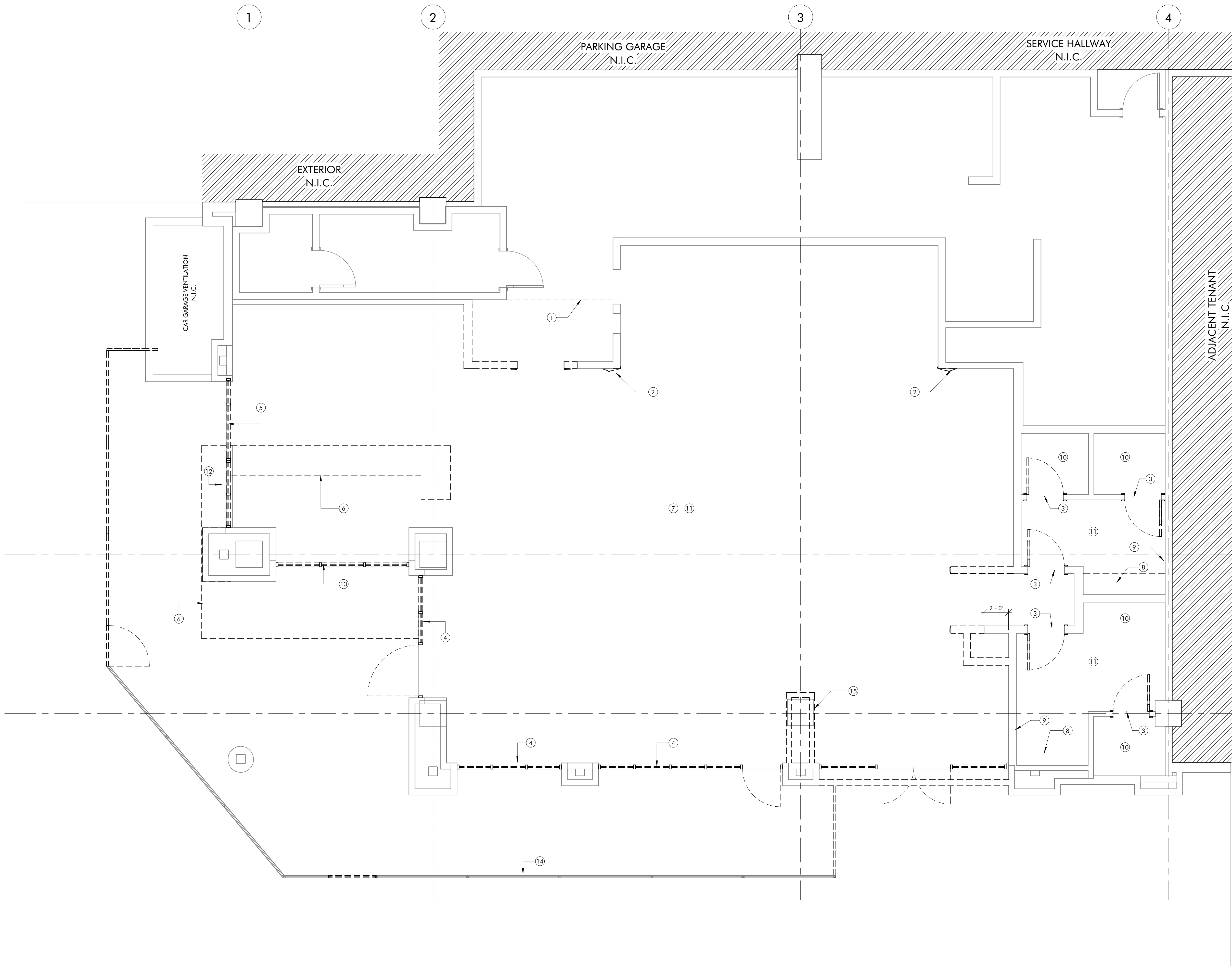
15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

05.18.2022 PERMIT SET

PROJECT
SPECIFICATIONS

G5.2
BN1580

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SHEET KEYED NOTES

- 1 DEMO FLOORING TO THIS LINE; BACK OF HOUSE FLOORING TO REMAIN. PATCH AND REPAIR AS NEEDED
- 2 REMOVE TRIM; PATCH AND REPAIR WALL AS NEEDED
- 3 CAREFULLY SALVAGE DOOR; REPAIR AND PREP FOR NEW FINISH AND HARDWARE
- 4 REMOVE STOREFRONT SYSTEM. GIVE TO LANDLORD FOR STORAGE AND/OR REUSE
- 5 REMOVE SLIDING STOREFRONT SYSTEM. REMOVE TRACKS AND PREPARE FOR NEW FRAMING PER PLANS. PATCH AND REPAIR FLOOR, WALLS, AND HEADER AS NEEDED.
- 6 REMOVE BAR, PATCH AND REPAIR OUTDOOR SLAB. TAKE CONDUIT AND PLUMBING BACK TO SOURCE.
- 7 DEMO FLOORING, THIS ROOM; PREP FOR INSTALLATION OF NEW FLOORING
- 8 REMOVE VANITY COUNTERTOP, MILLWORK, MIRRORS, AND PLUMBING FIXTURES; PREPARE FOR NEW VANITY AND PLUMBING FIXTURES
- 9 PROTECT PAPER TOWEL DISPENSER DURING DEMO AND CONSTRUCTION; REPAIR IF NEEDED
- 10 TOILETS, GRAB BARS, AND URINALS TO REMAIN; PROTECT DURING DEMO AND CONSTRUCTION. REPAIR AND REPLACE IF NEEDED.
- 11 PREPARE REMAINING WALLS FOR NEW FINISH
- 12 DEMO SLIDING DOOR AND PATCH CONCRETE
- 13 DEMO GARAGE DOOR, TRACK, MOTOR. DEMO POWER BACK TO SOURCE
- 14 DEMO DECORATIVE INSERT FOR NEW SCREEN INSERT. SEE ELEVATIONS
- 15 DEMO COLUMN SURROUND. PROTECT STRUCTURAL CONCRETE COLUMN.

DEMOLITION PLAN GENERAL NOTES

- A. THE SCOPE OF DEMOLITION WORK IS NOT ALL INCLUSIVE. THE GENERAL CONTRACTOR SHALL INCLUDE IN THE BID POSSIBLE DEMOLITION BASED ON EXISTING CONDITIONS FOUND IN THE FIELD. THESE CONDITIONS INCLUDE BUT ARE NOT LIMITED TO:
- MECHANICAL DUCT AND UNIT REWORK AND EQUIPMENT ACCESS TO PROVIDE FOR NEW CONSTRUCTION NEEDS AT EXISTING GYPSUM BOARD CEILINGS, OR ROOF PENETRATIONS.
 - ELECTRICAL PANEL RELOCATION, NEW CONDUIT REWORK, OR FLOOR AND ROOF PENETRATIONS.
 - PLUMBING SOIL AND SUPPLY LINE REWORK, OR FLOOR AND ROOF PENETRATIONS.
 - TELEPHONE CABLING REWORK, OR FLOOR AND ROOF PENETRATIONS.
 - AUDIO VISUAL CABLING WORK, OR FLOOR AND ROOF PENETRATIONS.
 - BRINGING EXISTING CONDITIONS THAT VIOLATE CODES UP TO CURRENT CODE REQUIREMENTS FOR MECHANICAL, PLUMBING, ELECTRICAL, ETC.
 - FLOOR FLOATING AND LEVELING AS REQUIRED FOR CERAMIC TILE, STONE TILE AND OTHER FLOORING.
- B. THE GENERAL CONTRACTOR SHALL PROVIDE FOR TRASH REMOVAL AND CLEAN UP INCLUDING BUT NOT LIMITED TO:
- SCOPE OF WORK
 - ADJACENT AREAS
 - ALL PUBLIC AND SERVICE ACCESS ROUTES
 - ELEVATORS IF APPLICABLE
 - STREET AND TRASH STORAGE AREAS
- C. TRASH SHALL BE REMOVED FROM SITE AND TAKEN TO TRASH DUMPSTER EACH NIGHT.
- D. ASBESTOS VERIFICATION: GENERAL CONTRACTOR TO TEST FOR ASBESTOS CONTAINING MATERIAL WHICH ARE IMPACTED BY NEW CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, RESILIENT FLOOR TILE, INSULATION OF PIPING AND/OR MECHANICAL EQUIPMENT AND TEXTURED CEILINGS. IF TESTED POSITIVE, PROCEED PER LOCAL AND FEDERAL GUIDELINES OR AUTHORITIES HAVING JURISDICTION FOR ASBESTOS ABATEMENT PRIOR TO ALL OTHER DEMO OR NEW CONSTRUCTION WORK.
- E. REMOVE EXISTING DOOR HARDWARE AS NECESSARY. REUSE EXISTING CORES IF POSSIBLE.
- F. REMOVE EXISTING PARTITIONS, STUDS, ELECTRICAL, TELEPHONE, DATA, SWITCHES, THERMOSTATS, TELEPHONE MOUNTING BOARDS, WINDOWS, DOORS, FRAMES, AND MILLWORK AS NOTED ON PLAN(S).
- G. REMOVE EXISTING FLOORING AND GLUE AS NOTED ON PLAN(S).
- H. REMOVE EXISTING BASE AS NOTED ON PLAN(S).
- I. REMOVE EXISTING WALL COVERING AS NOTED ON PLAN(S).
- J. REMOVE EXISTING PLUMBING FIXTURES AS NOTED ON PLAN(S). CAP OFF PLUMBING. IN PARTITIONS BEING REMOVED AND/OR LOCATIONS SPECIFIED, STRIP OUT ALL SOIL LINES TO BE FLUSH WITH SLAB OR BELOW SLAB AND PROPERLY CAP AND SEAL.
- K. AT PARTITIONS BEING REMOVED, STRIP OUT ALL POWER TO NEAREST J-BOX ABOVE SUSPENDED CEILING. AT J-BOX, WIRE NUT ALL TERMINATIONS AND CLOSE BOX.
- L. REMOVE EXISTING LIGHT FIXTURES, GYPSUM BOARD CEILINGS AND SOFFITS, AND ACOUSTICAL CEILING TILE AND GRID AS NOTED ON PLAN(S).
- M. CAREFULLY REMOVE AND DELIVER TO TENANT OR BUILDING OWNER ALL SALVAGEABLE ITEMS SUCH AS DOORS, HARDWARE, PLUMBING FIXTURES, WINDOWS, LIGHT FIXTURES, CEILING TILE, THERMOSTATS, OUTLETS, SWITCHES, WINDOW COVERINGS AND GRILLES. REUSE ITEMS IF POSSIBLE OR AS NOTED.
- N. THE GENERAL CONTRACTOR SHALL PROPERLY SEAL AND SECURE ADJOINING AREAS SO THAT THEY ARE NOT IMPACTED BY DEMOLITION. THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION WHERE OPENINGS CREATED AS A RESULT OF DEMOLITION EXPOSE THIS SCOPE OF WORK TO THE EXTERIOR ELEMENTS OR WEATHER.
- O. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING MATERIALS DURING DEMOLITION.
- P. IF DEMOLITION OCCURS IN AREAS ADJACENT TO A COMMON ELEVATOR LOBBY OR OTHER BUILDING CORRIDOR, LEAVE EXTRA BUILDING FLOORING, BASE, WALLCOVERING, AND CEILING IN THE AREA.
- Q. TO BE DEMOLISHED TO ENSURE A CLEAR TRANSITION OF FINISHES.
- R. COORDINATE WITH TENANT OR BUILDING OWNER FOR AREA TO STAGE MATERIALS FOR REUSE.

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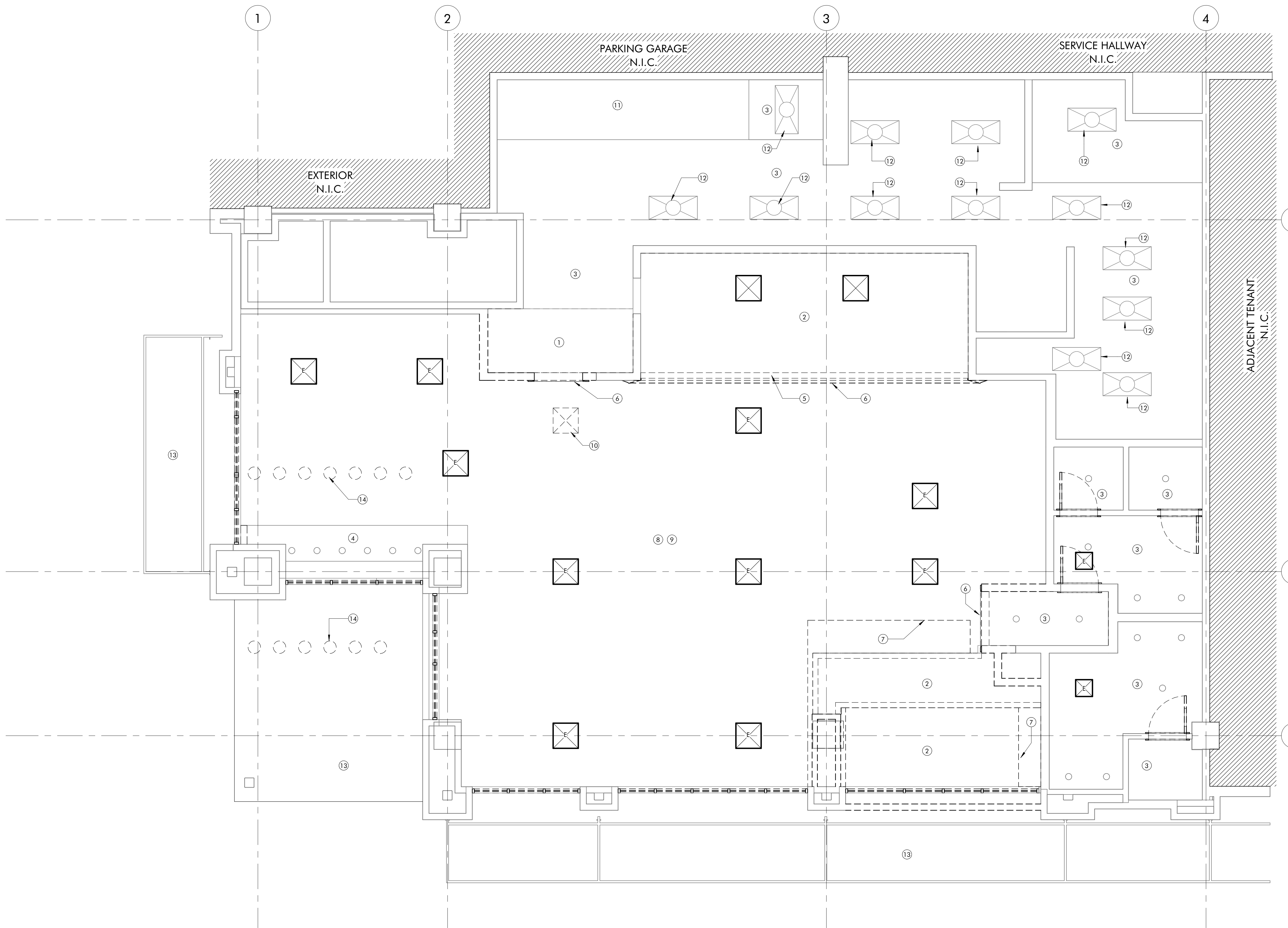
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BN1580 JOJO'S SHAKE BAR

15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

05.18.2022 PERMIT SET



SHEET KEYED NOTES

- 1 DEMO EXISTING ACOUSTIC CEILING SYSTEM, THIS LOCATION
- 2 DEMO SUSPENDED CEILING, THIS LOCATION
- 3 EXISTING CEILING TO REMAIN
- 4 EXISTING SOFFIT TO REMAIN; PATCH AND REPAIR WHERE NEEDED
- 5 DEMO HEADER THIS LOCATION
- 6 DEMO OPENING TRIM, THIS LOCATION
- 7 DEMO SOFFIT, THIS LOCATION
- 8 REMOVE EXISTING LIGHT FIXTURES; PATCH AND REPAIR CEILING
- 9 EXISTING AV EQUIPMENT TO REMAIN
- 10 DEMO DIFFUSER, REUSE DUCTWORK AS NECESSARY. REFER TO MPE.
- 11 HOOD TO BE CLEANED AND REPAIRED IF NEEDED. PROTECT DURING DEMO AND CONSTRUCTION
- 12 FLUORESCENT LIGHT FIXTURE TO BE REMOVED. PREPARE FOR NEW FIXTURE.
- 13 REMOVE GAS HEATERS. TAKE LINE BACK TO SOURCE AND MAKE SAFE.
- 14 REMOVE PENDANT LIGHT FIXTURE (TYP)

DEMOLITION PLAN GENERAL NOTES

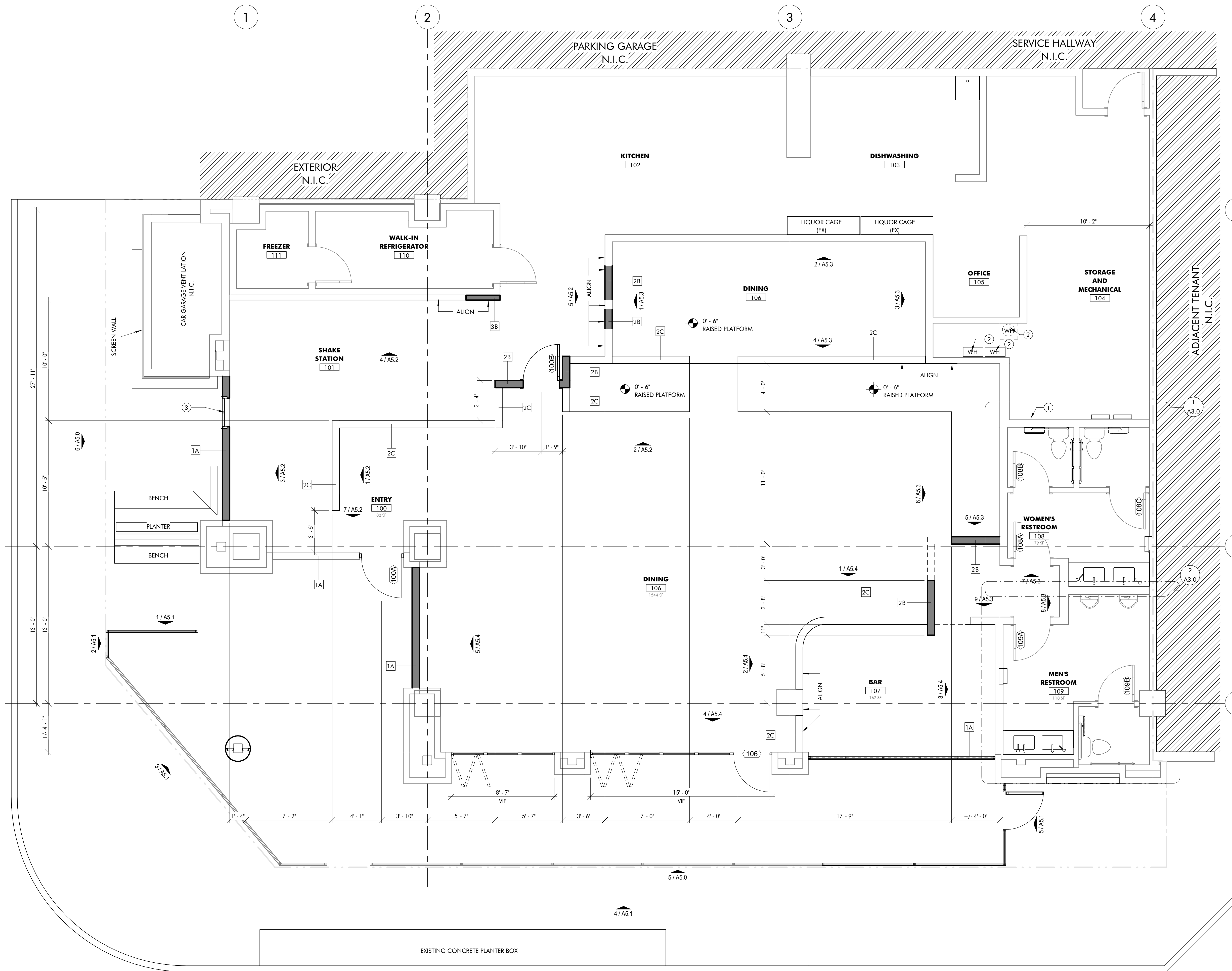
- A. REMOVE EXISTING LIGHT FIXTURES, GYPSUM BOARD CEILING SOFFIT, AND ACOUSTICAL CEILING TILE AND GRID AS NOTED ON PLANS.
- B. SALVAGE ALL LIGHT FIXTURES. COORDINATE SALVAGE WITH CLIENT AND DESIGNER.
- C. COORDINATE WITH MPE DRAWINGS.

1 DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"

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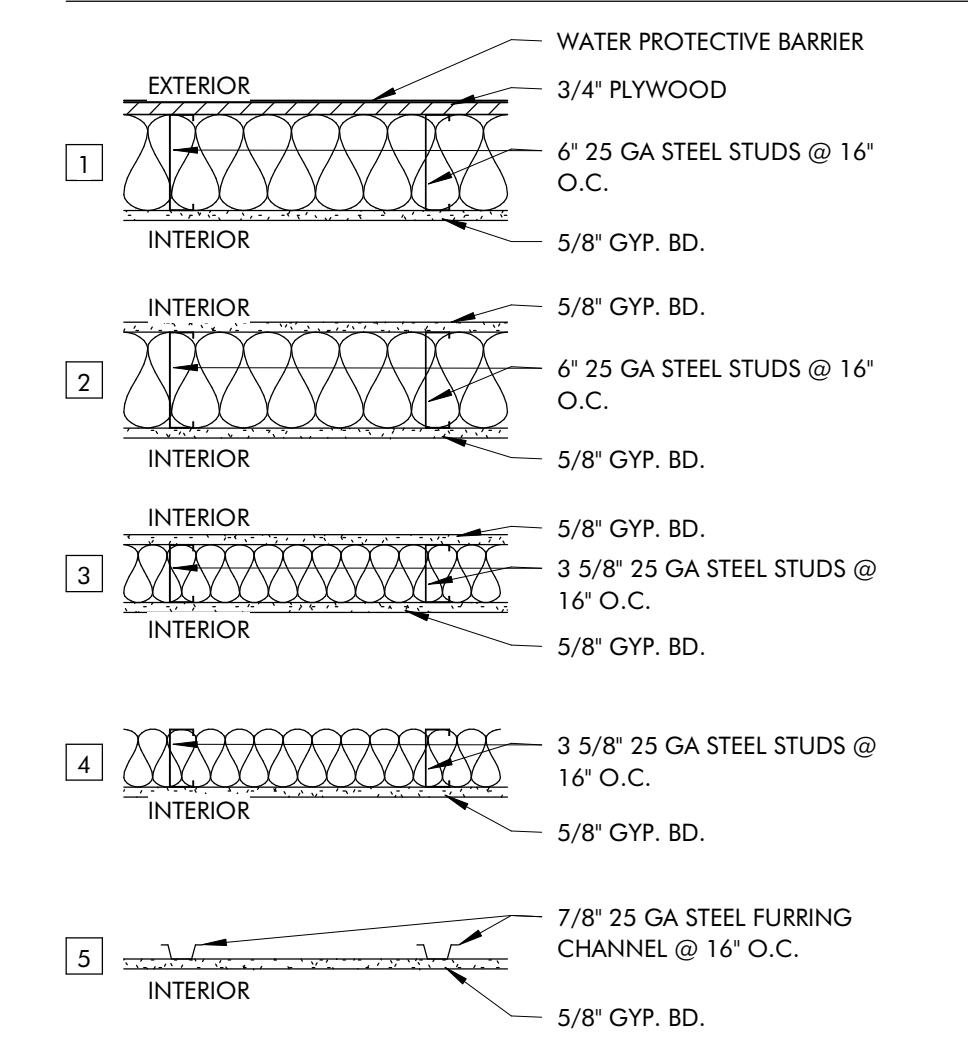
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SHEET KEYED NOTES

- 1 EXISTING ELECTRICAL. REFER TO ELECTRIC DRAWINGS
- 2 EXISTING WATER HEATERS. REFER TO PLUMBING DRAWINGS
- 3 PASS-1. REFER TO PROJECT SPECIFICATIONS, G5.0

WALL TYPE LEGEND



- NOTES:**
- 1. USE 5/8" TYPE X GYPSUM BOARD @ INTERIOR SIDE OF STORAGE AND MECHANICAL ROOMS.
 - 2. USE 5/8" MOISTURE RESISTANT GYPSUM BOARD IN ALL DAMP AREAS.
 - 3. USE 1/2" CEMENT BOARD UNDER CERAMIC TILE AND ALL INTERIOR STONE/BRICK VENEERS.
 - 4. PROVIDE FULL DEPTH INSULATION IN EXTERIOR WALL CAVITIES.
 - 5. PROVIDE FULL DEPTH THERMAL INSULATION IN FURRING @ EXTERIOR WALLS. USE RIGID FOAM IN CAVITIES LESS THAN 3 1/2" DEEP.
 - 6. PROVIDE FULL DEPTH SOUND ATTENUATION BATTS IN ALL INTERIOR PARTITIONS.
 - 7. ALL WOOD FRAMED WALLS SHALL HAVE A TREATED SOLE PLATE.

+ KEY SCHEDULE-WALL TERMINATION

WALL MARK	HEIGHT	BASE DETAIL	TOP DETAIL
A	TO STRUCTURE	4/A6.3	
B	6" ABOVE ADJ. CEILING	4/A6.0	7/A6.0
C	LOW HEIGHT TO 4'-0"	3/A6.1	REFER TO ELEVATIONS
D	SEE ELEVATIONS	3/A6.1	REFER TO ELEVATIONS

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

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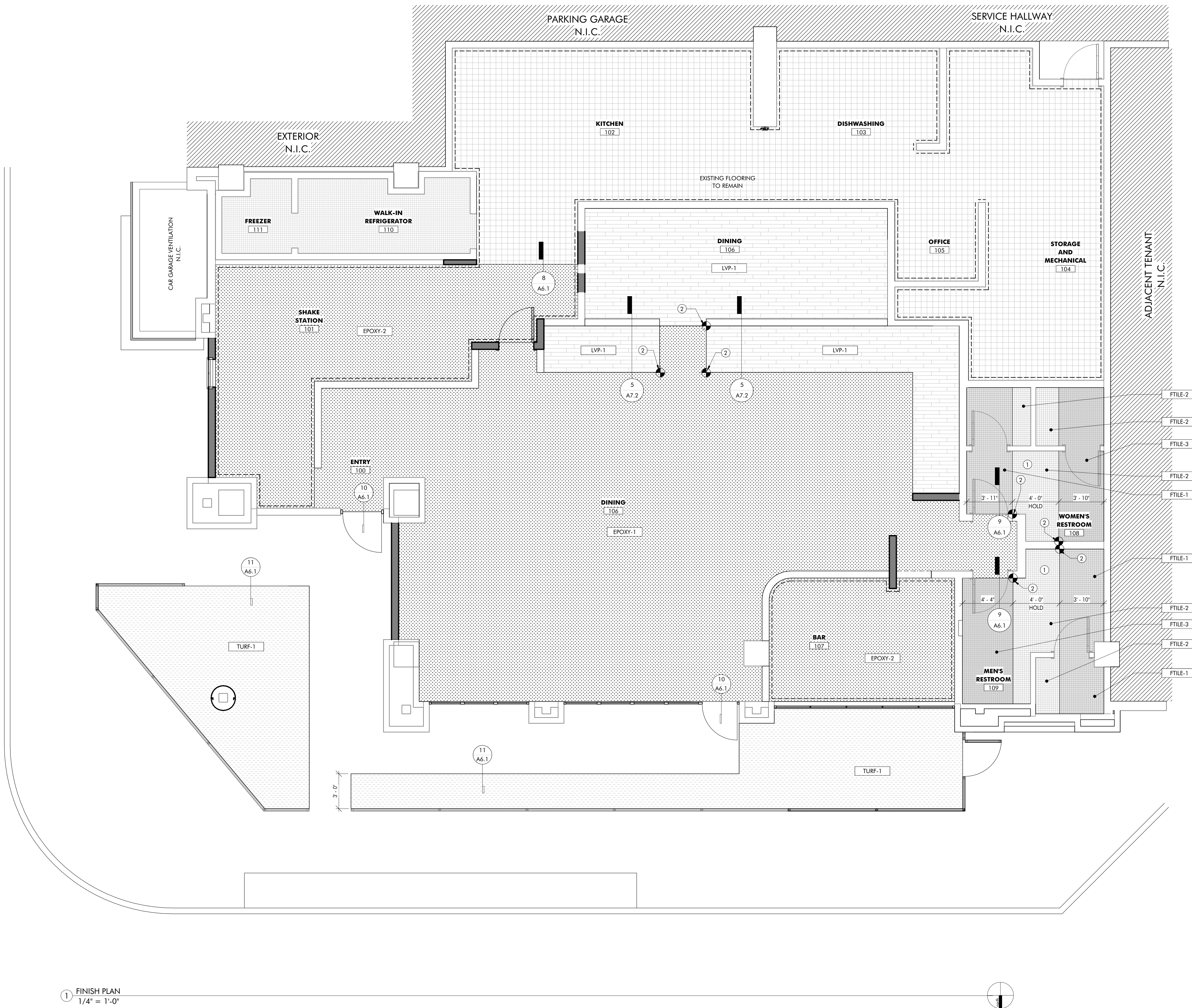
SHEET KEYED NOTES

- 1 TILE COLORS TO TRANSITION AT DESIGNATED AREAS. TILE ON WALL TO ALIGN WITH TILE ON FLOOR.
- 2 TILE START POINT

FINISH PLAN GENERAL SCOPE NOTES

- REFER TO INTERIOR ELEVATIONS FOR VERTICAL SURFACE, WALL BASE FINISHES, AND ADDITIONAL INFORMATION
- REFER TO ROOM FINISH SCHEDULE, SHEET A9.0 FOR ROOM FINISH DESIGNATIONS
- REFER TO SPECIFICATIONS, SHEETS A5.0 & A5.1 FOR ADDITIONAL INFORMATION
- ALL FLOOR PENETRATIONS AND/OR NEW FLOOR OPENINGS SHALL BE X-RAYED AND APPROVED BY THE LANDLORD PRIOR TO CUTTING OR CORING
- ALL WALLS IN BOH TO BE FRP-1, SEE SPECIFICATIONS
- WET AREAS MUST HAVE CEMENTITIOUS BOARD AND LATICRETE HYDROBAN WATERPROOF MEMBRANE INSTALLED UNDER FLOORING AND WALL FINISHES TO 12" AFF OR 12" PAST ANY WET AREA ON WALLS. SEE PLAN FOR LIMITS OF WATERPROOFING.
- GC TO SUPPLY AND INSTALL SS CORNER GUARDS AND WALL END CAPS FROM WALL BASE TO CEILING IN BOH, SEE DETAIL 1/A6.1

FINISH PLAN LEGEND	
X	FLOOR FINISH SYMBOL
---	DASHED LINE INDICATES THE LIMIT OF WATERPROOFING (SHOWN ADJACENT TO WALL FOR CLARITY)
●	FILLED DATUM INDICATES FULL TILE START POINT
○	EMPTY DATUM INDICATES FLOOR PENETRATION
?	INDICATES WALL BASE



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

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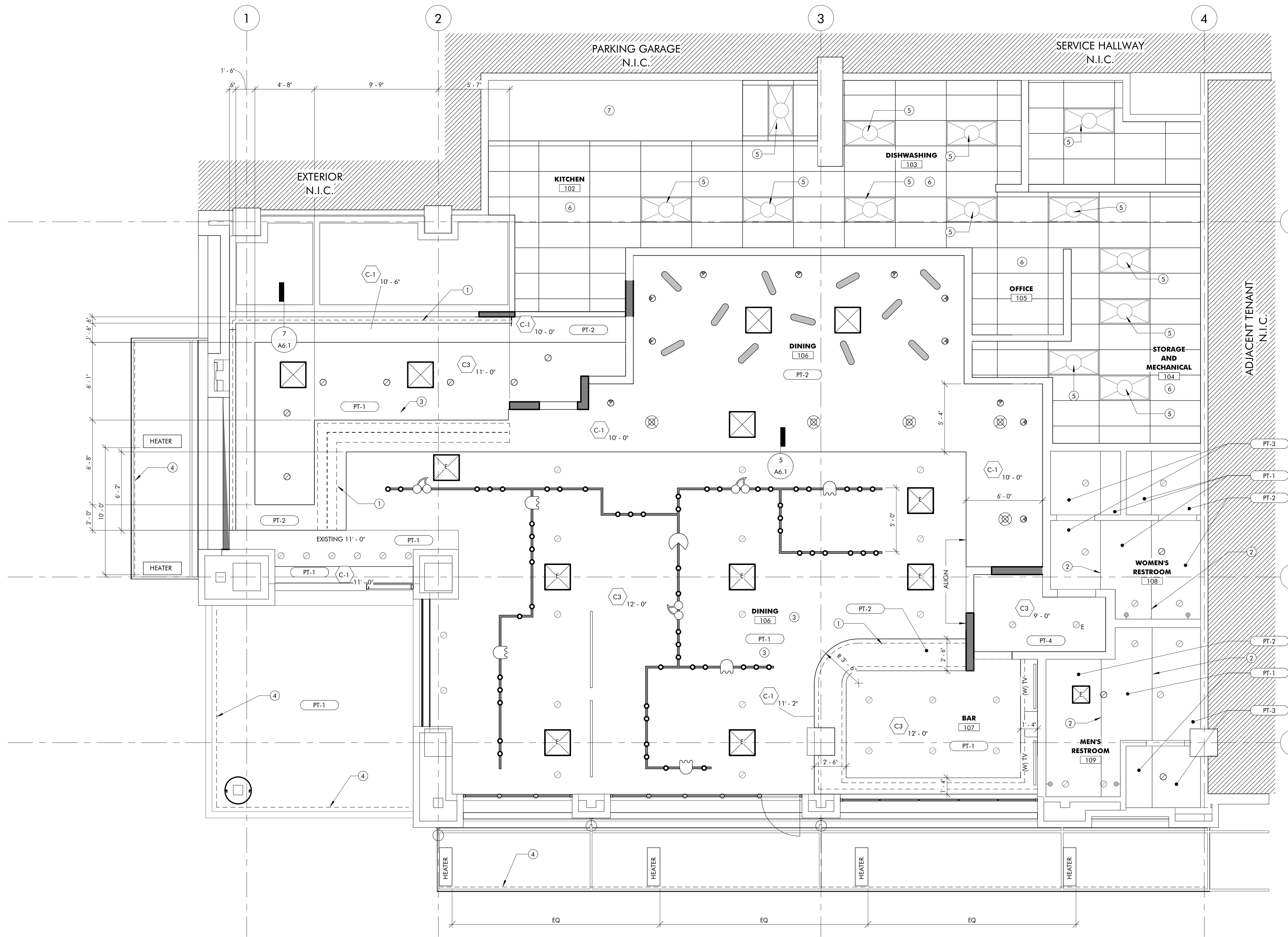
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SCOTTSDALE, AZ

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FLOOR FINISH PLAN

A1.1
BN1580

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SHEET KEYED NOTES

- 1 DOTTED LINE REFERS TO OVERHEAD MILLWORK. SEE CORRESPONDING ELEVATIONS.
- 2 TRANSITIONS BETWEEN PAINT COLORS TO ALIGN WITH TRANSITIONS BETWEEN WALL AND FLOOR TILE COLORS. REFER TO FLOOR FINISH PLAN AND CORRESPONDING INTERIOR ELEVATIONS FOR TILE LOCATIONS AND DIMENSIONS.
- 3 GC TO INSTALL NEW LAYER OF GYP BOARD BELOW EXISTING. COORDINATE WITH REFLECTED CEILING PLAN AND MPE FOR NEW DEVICE LOCATIONS.
- 4 LINE OF STRING FESTOON LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS
- 5 EXISTING FLUORESCENT LIGHT FIXTURES TO BE REPLACED WITH NEW LED LIGHT FIXTURES. REFER TO ELECTRICAL
- 6 EXISTING LIGHT FIXTURES IN AC SYSTEM TO REMAIN. UPGRADE ALL FIXTURES TO LED; CLEAN AND REPAIR FIXTURES AS NEEDED.
- 7 EXISTING HOOD; PROTECT DURING CONSTRUCTION

RCP GENERAL SCOPE NOTES

- A. REFER TO SPECIFICATIONS FOR ALL CEILING TYPES AND CEILING FINISHES
- B. REFER TO ELECTRICAL SHEETS FOR LIGHTING TYPES AND SPECIFICATIONS
- C. ALL ACCESS PANELS TO BE PROVIDED AND INSTALLED BY THE GC, REGARDLESS IF SHOWN ON THE PLAN OR NOT. THEY ARE TO BE SEAMLESS AND PAINTED TO MATCH THE ADJACENT CEILING FINISH
- D. FIRE SAFETY SYSTEMS AND FIRE SPRINKLERS ARE UNDER SEPARATE PERMIT. FINAL SPRINKLER LOCATIONS TO BE APPROVED BY ARCHITECT PRIOR TO INSTALL. SPRINKLER CAPS TO MATCH ADJACENT FINISH; BLACK COVER FOR DARK FINISH. WHITE COVER FOR LIGHT FINISH
- E. SEE STRUCTURAL PLANS FOR HOOD SUPPORT DETAILS
- F. SUSPENDED CEILING DETAILS: SEE STRUCTURAL PLANS AND SHEET AX.X

REFLECTED CEILING PLAN LEGEND

	CEILING FAN AS SPECIFIED
	CEILING MOUNTED TV, BY OTHERS, GC TO PROVIDE UTILITY
	WALL MOUNTED TV, BY OTHERS, GC TO PROVIDE UTILITY
	NEW LIGHT FIXTURE
	EXISTING LIGHT FIXTURE
	RELOCATED LIGHT FIXTURE

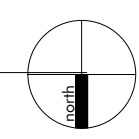
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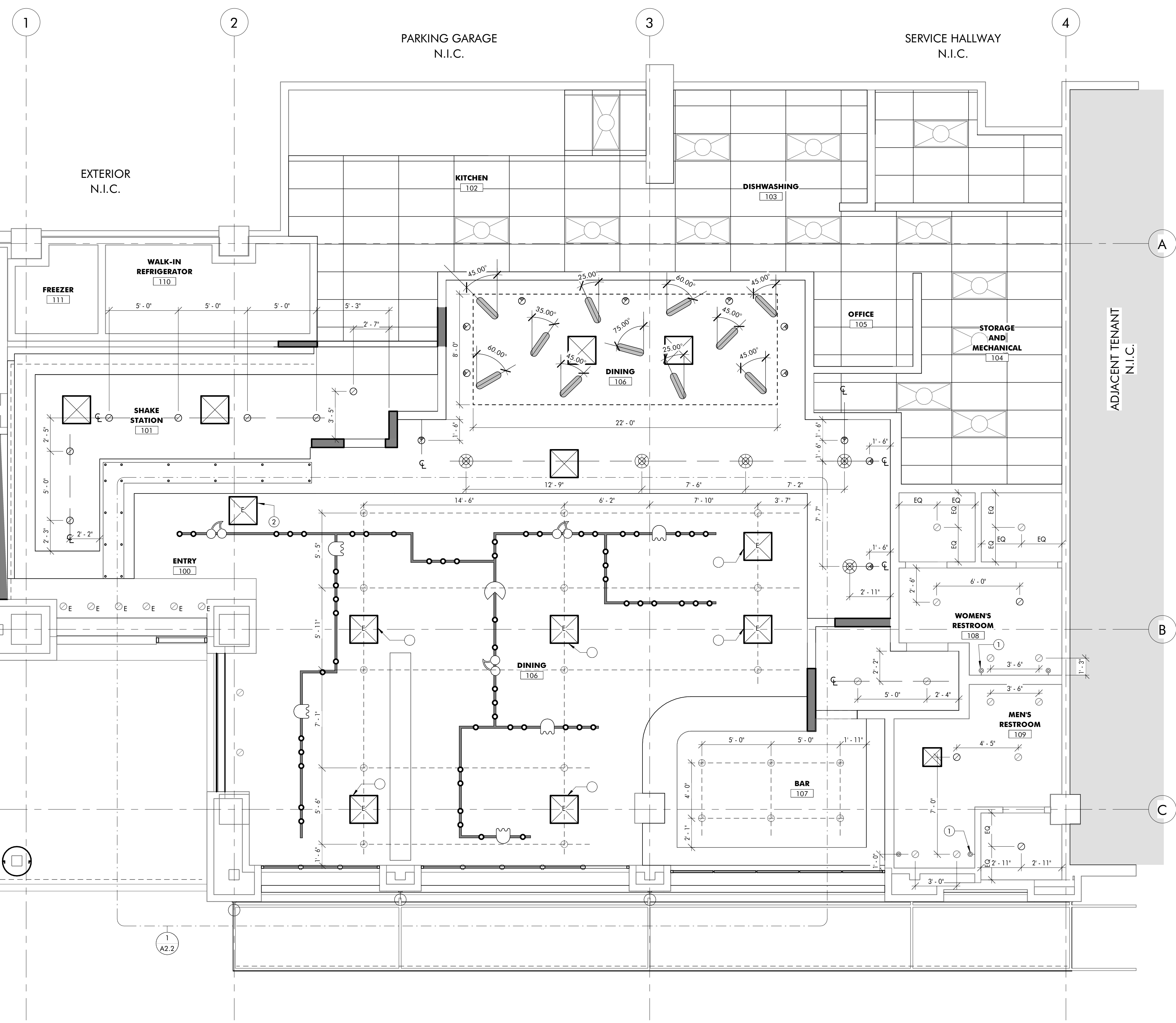


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 SCOTTSDALE, AZ
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1 REFLECTED CEILING PLAN
 1/4" = 1'-0"





SHEET KEYED NOTES

- 1 WALL SOUNGE, REFER TO INTERIOR ELEVATIONS FOR HEIGHT AND PLACEMENT LOCATION
- 2 LOCATIONS OF EXISTING AIR REGISTERS IS APPROXIMATE. VERIFY IN FIELD.

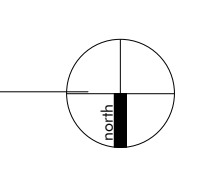
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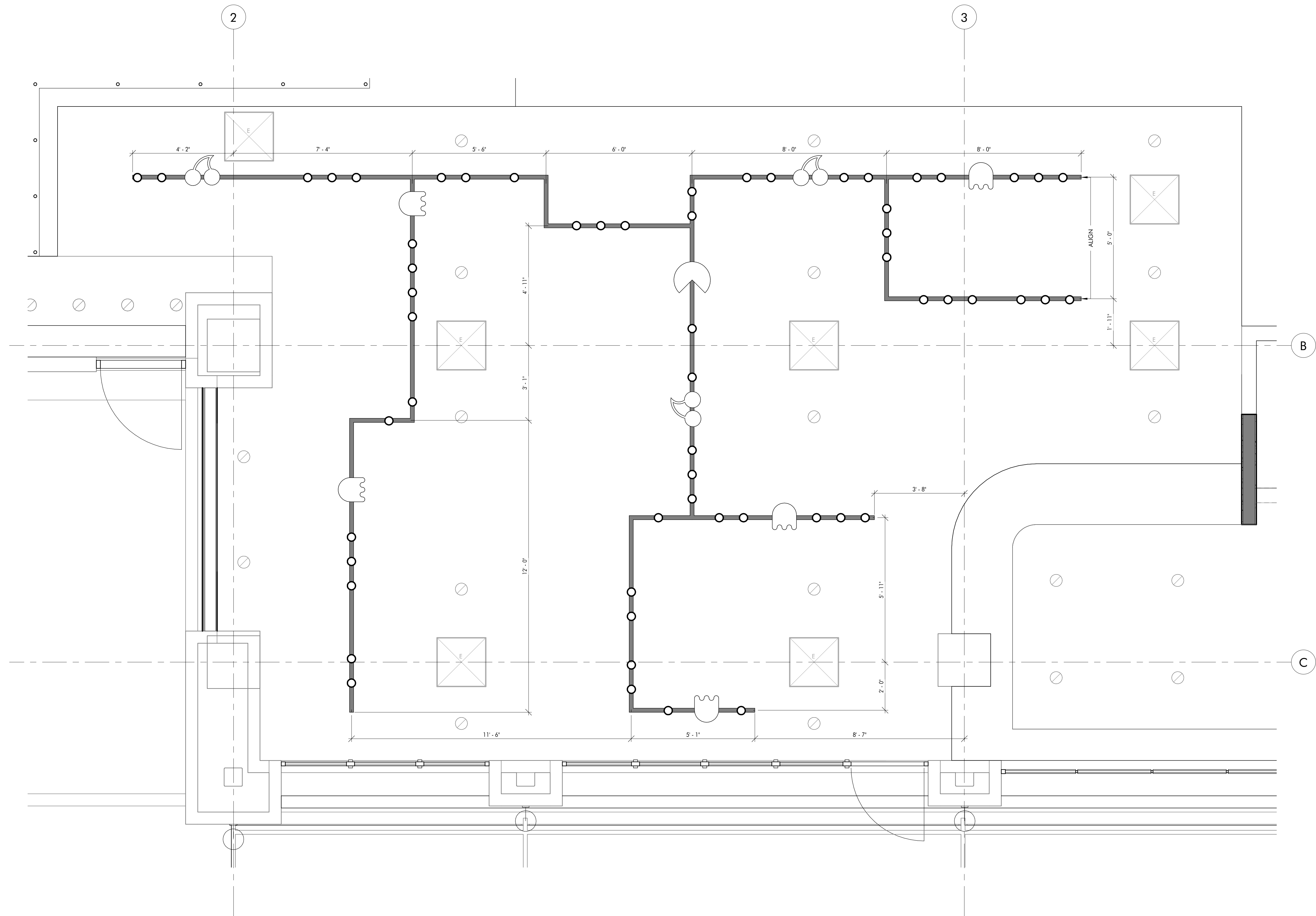
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① DIMENSIONED LIGHTING PLAN
 1/4" = 1'-0"



Client: JOJO'S SHAKE BAR, 15037 N. SCOTTSDALE ROAD SUITE #150, SCOTTSDALE, AZ 85258



① ENLARGED DIMENSIONED LIGHTING PLAN
1/2" = 1'-0"

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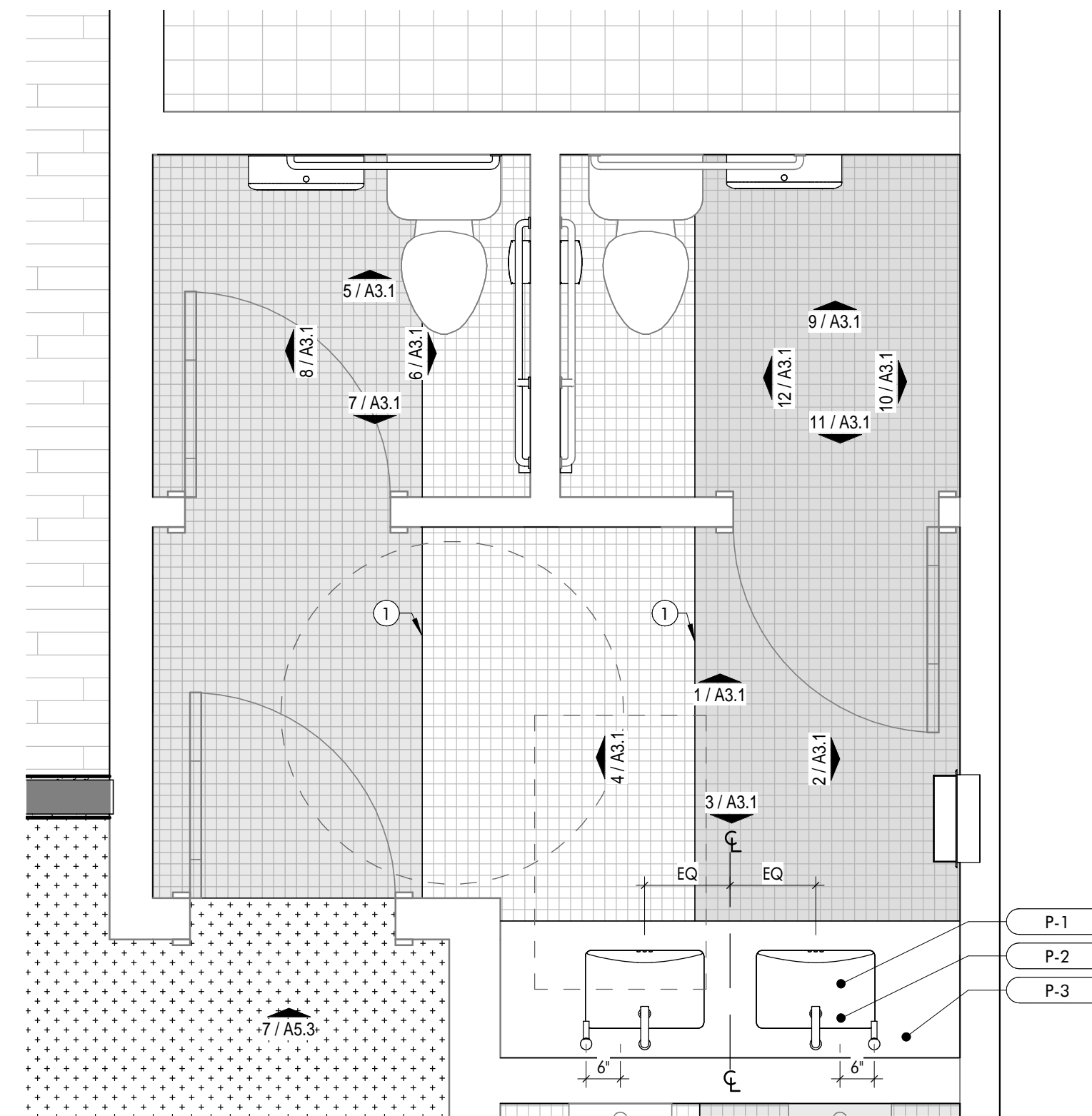
ENLARGED
 DIMENSIONED
 LIGHTING PLAN

A2.2
 BN1580

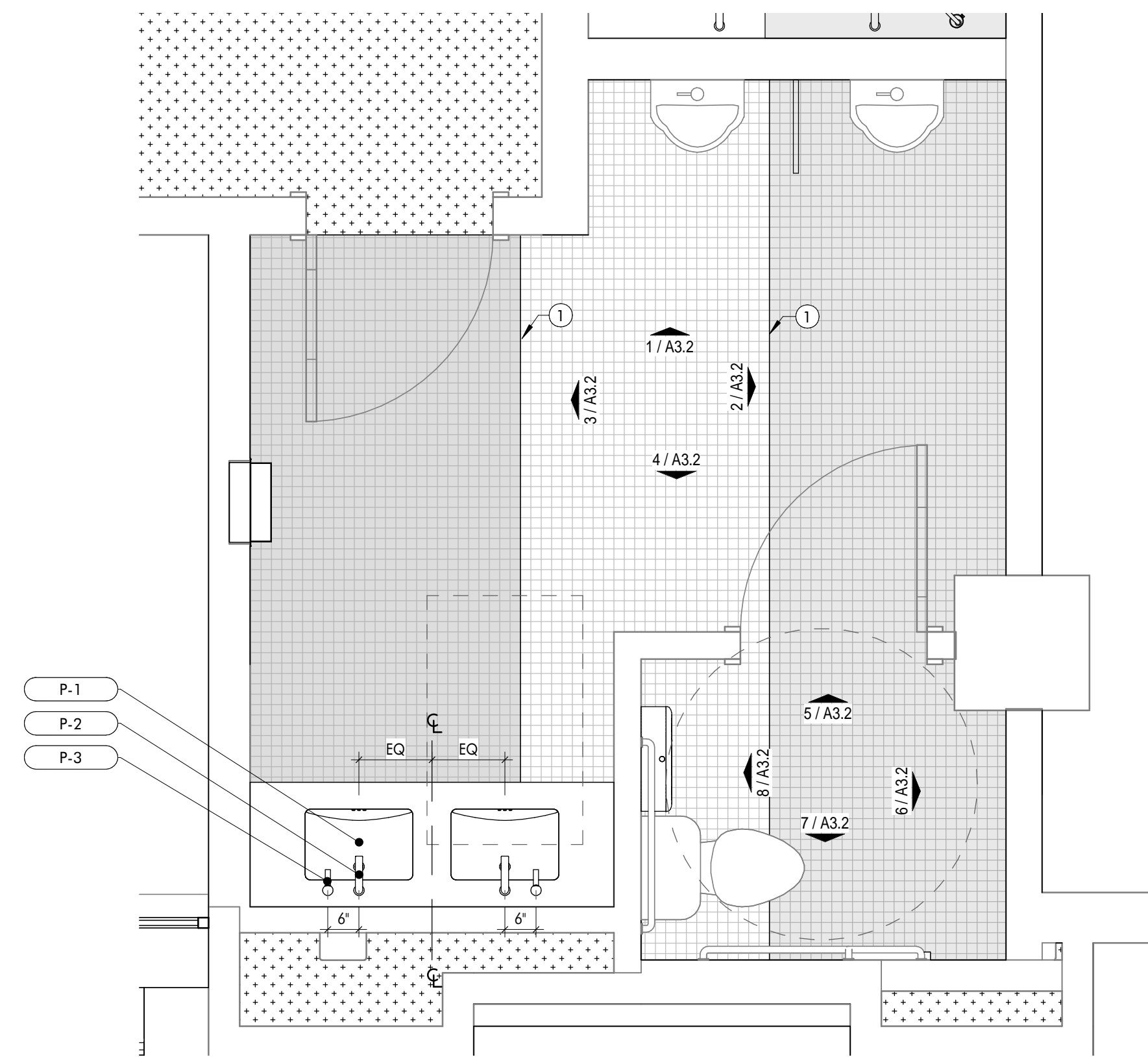
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SHEET KEYED NOTES

- 1 TILE COLORS TO TRANSITION AT DESIGNATED AREAS. TILE ON WALL TO ALIGN WITH TILE ON FLOOR.



① ENLARGE RESTROOM PLAN - WOMENS
1/2" = 1'-0"



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

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05.18.2022 PERMIT SET

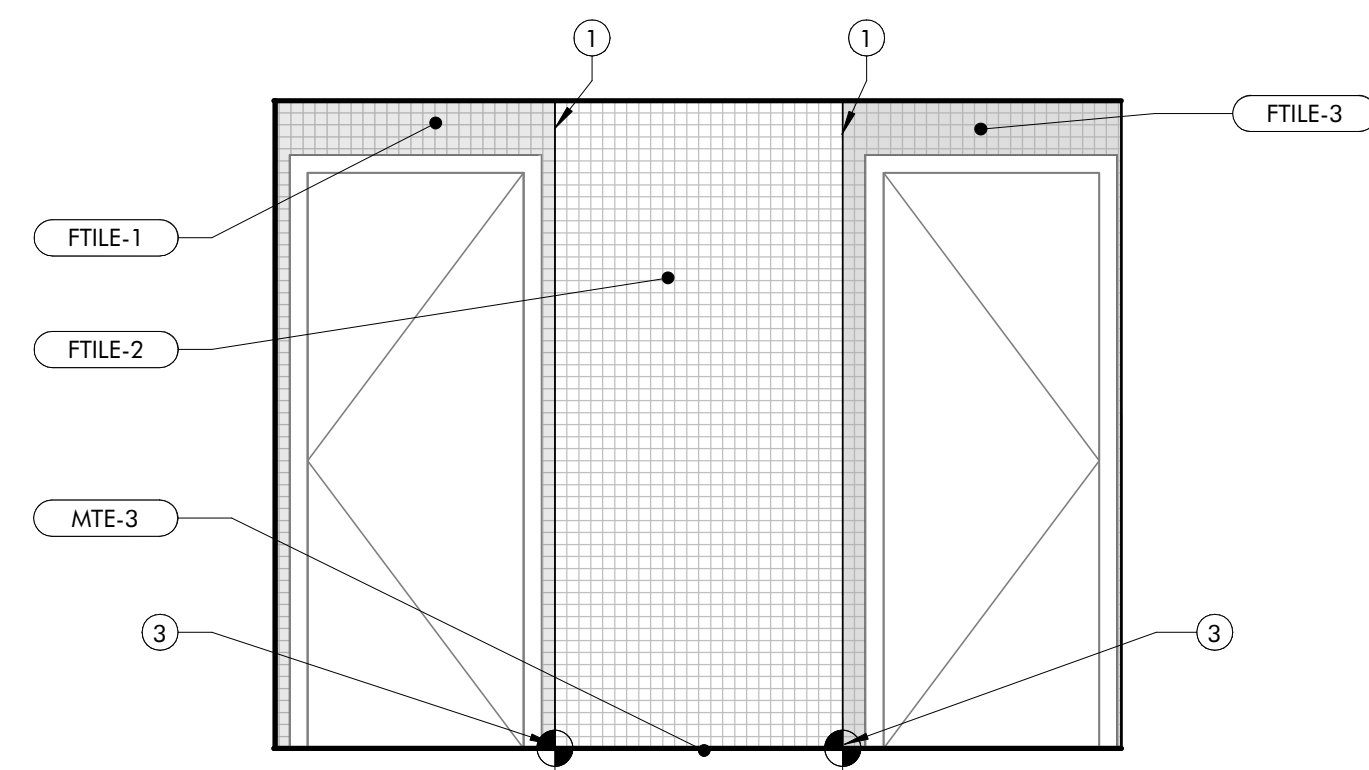
ENLARGED
RESTROOM PLANS
AND DETAILS

A3.0
BN1580

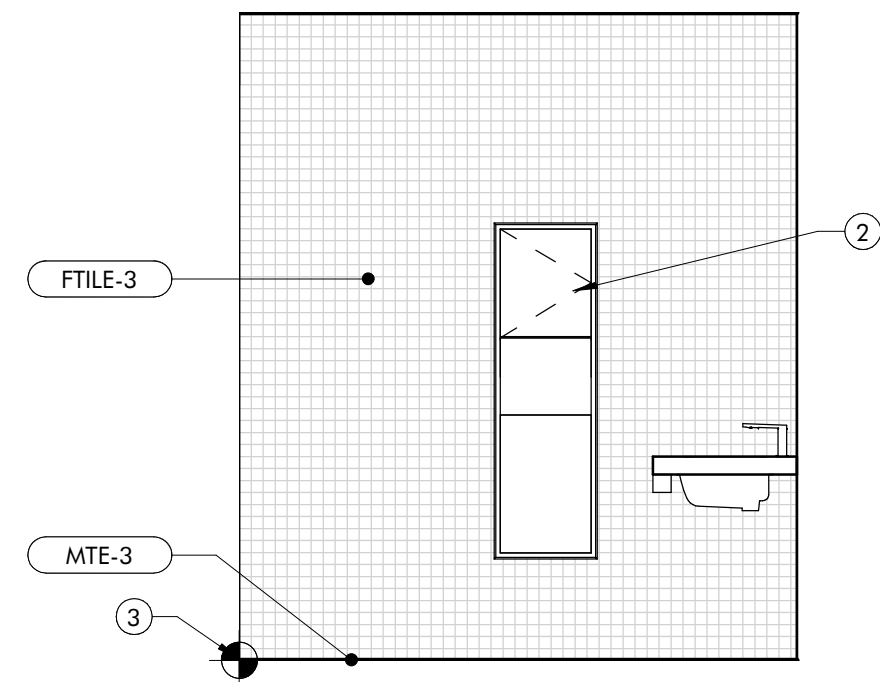
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SHEET KEYED NOTES

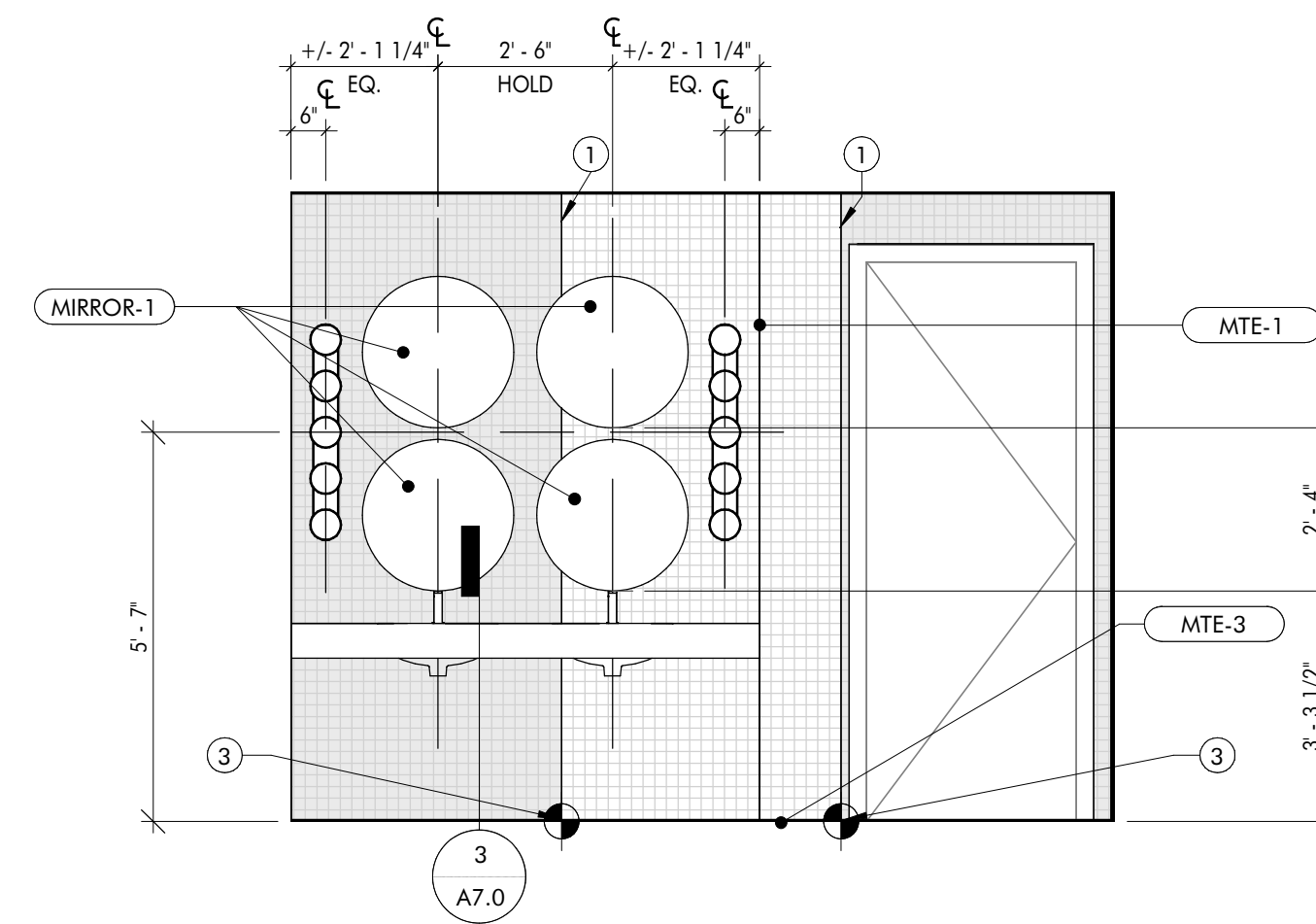
- 1 WALL TILE TRANSITIONS TO ALIGN WITH FLOOR TILE TRANSITIONS. SEE FLOOR FINISH PLAN FOR DIMENSIONS.
- 2 EXISTING FIXTURE TO REMAIN; CLEAN AND REPAIR IF NEEDED
- 3 RESTROOM TILE START POINT, FOR REFERENCE ONLY. WALL TILE GROUT LINES TO ALIGN WITH FLOOR TILE GROUT LINES.



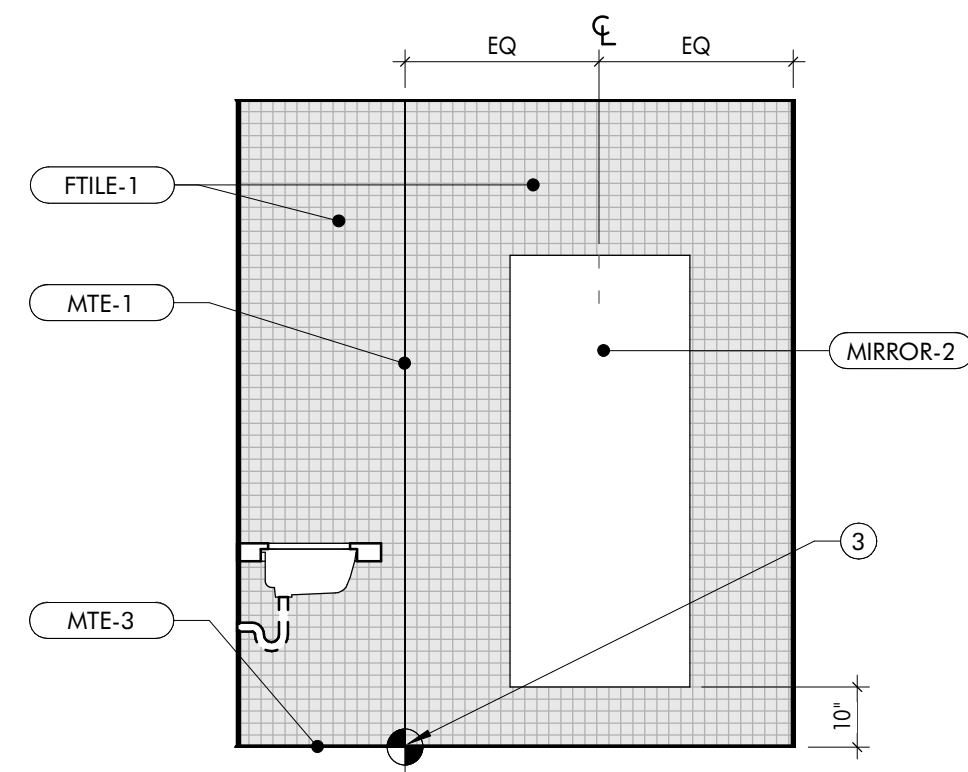
1 ELEVATION - WOMEN'S RESTROOM NORTH
3/8" = 1'-0"



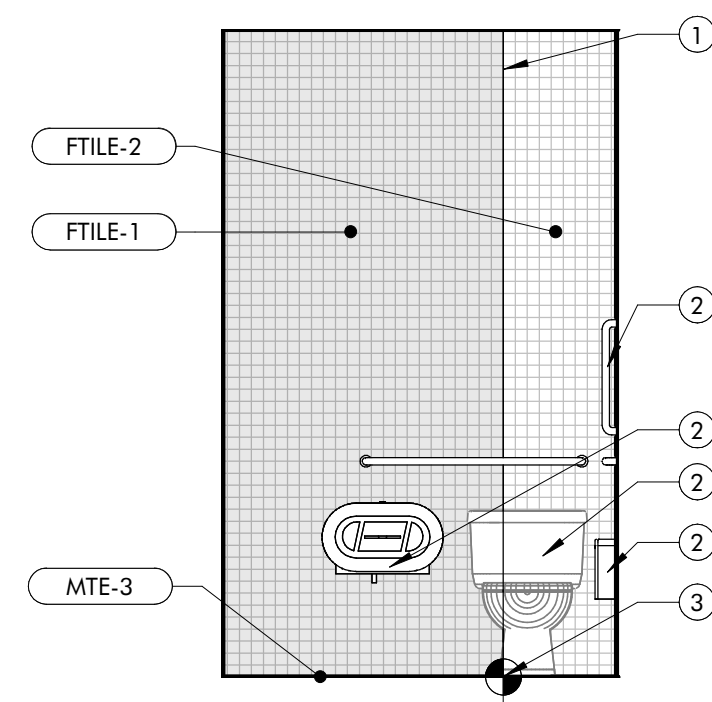
2 ELEVATION - WOMEN'S RESTROOM EAST
3/8" = 1'-0"



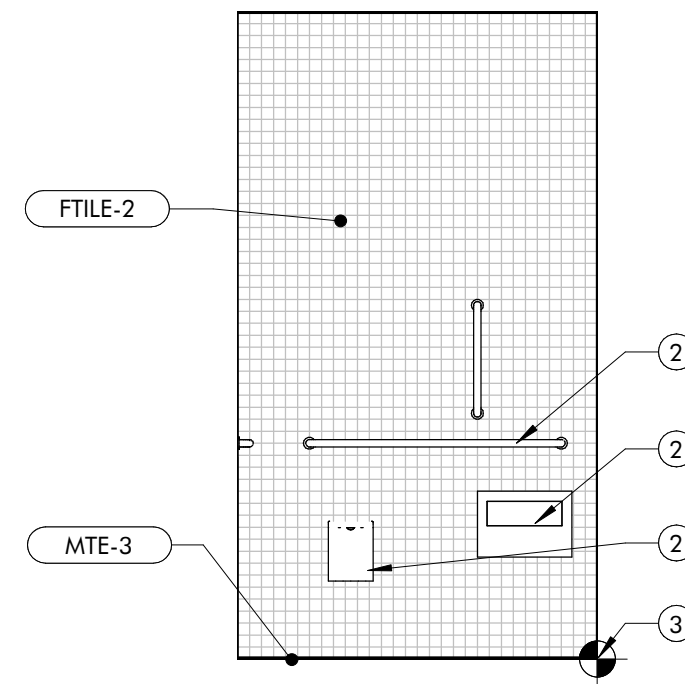
3 ELEVATION - WOMEN'S RESTROOM SOUTH
3/8" = 1'-0"



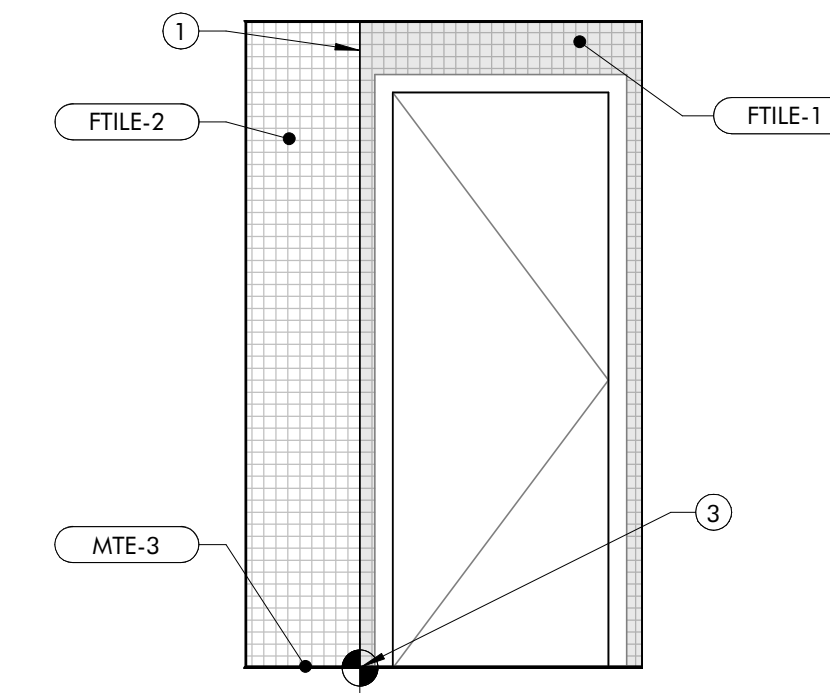
4 ELEVATION - WOMEN'S RESTROOM WEST
3/8" = 1'-0"



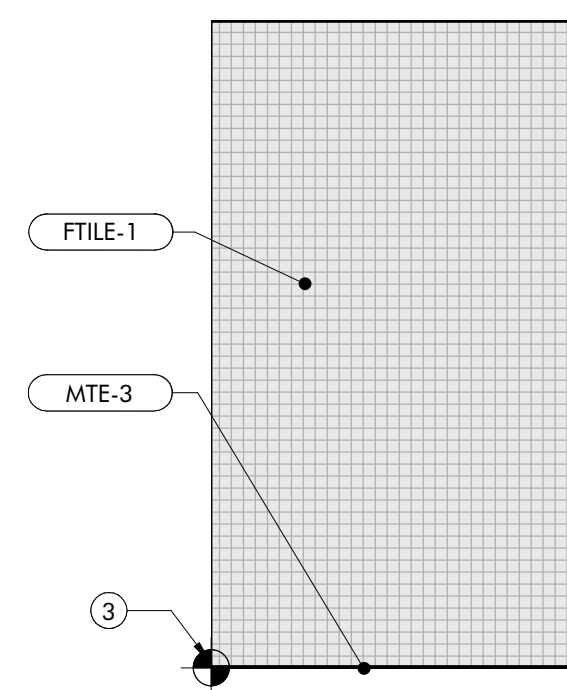
5 ELEVATION - WOMEN'S STALL NORTH
3/8" = 1'-0"



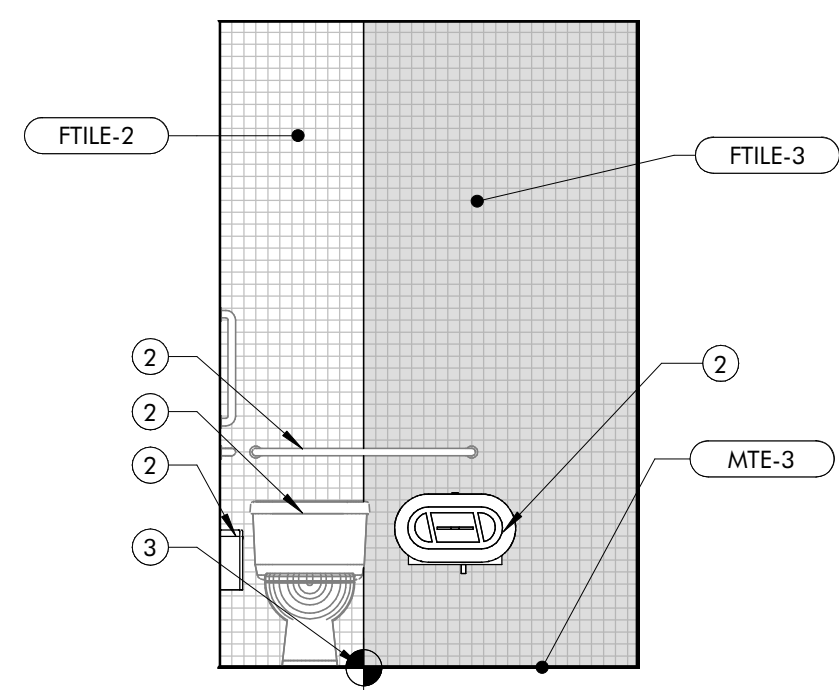
6 ELEVATION - WOMEN'S RESTROOM STALL EAST
3/8" = 1'-0"



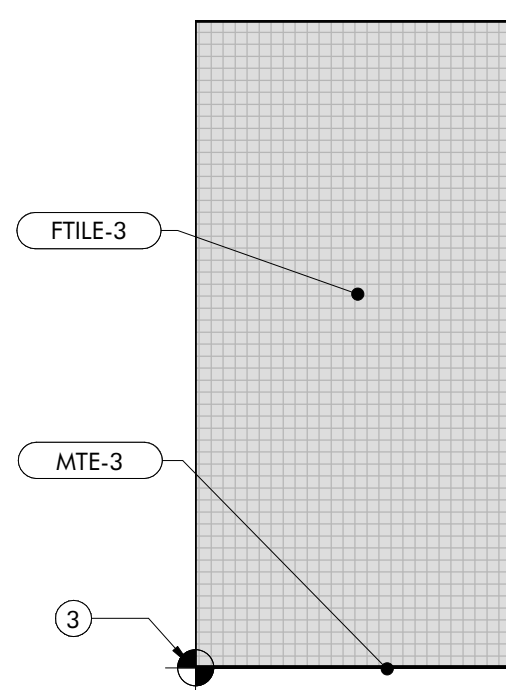
7 ELEVATION - WOMEN'S STALL SOUTH
3/8" = 1'-0"



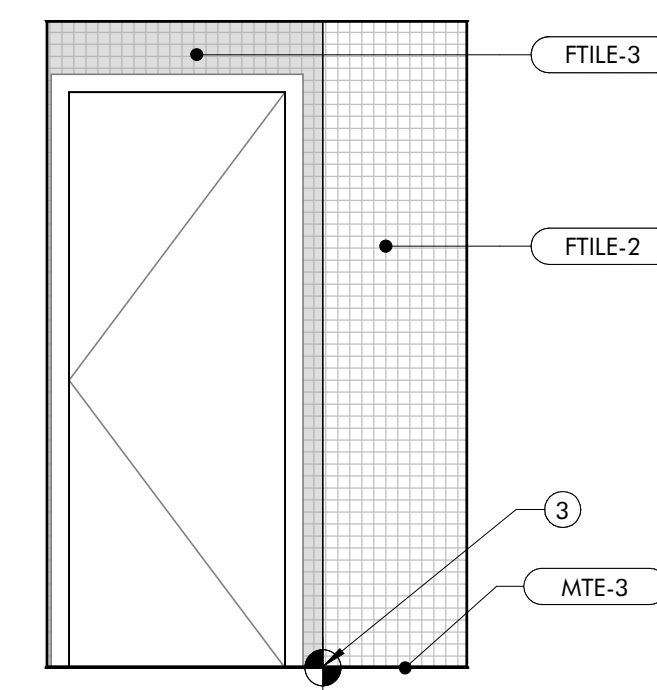
8 ELEVATION - WOMEN'S STALL WEST
3/8" = 1'-0"



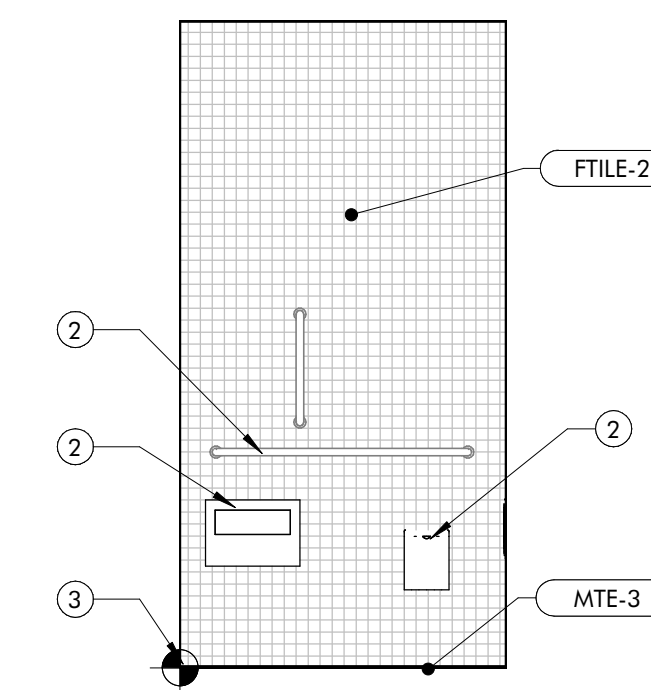
9 ELEVATION - WOMEN'S ADA NORTH
3/8" = 1'-0"



10 ELEVATION - WOMEN'S ADA EAST
3/8" = 1'-0"



11 ELEVATION - WOMEN'S ADA SOUTH
3/8" = 1'-0"



12 ELEVATION - WOMEN'S ADA WEST
3/8" = 1'-0"

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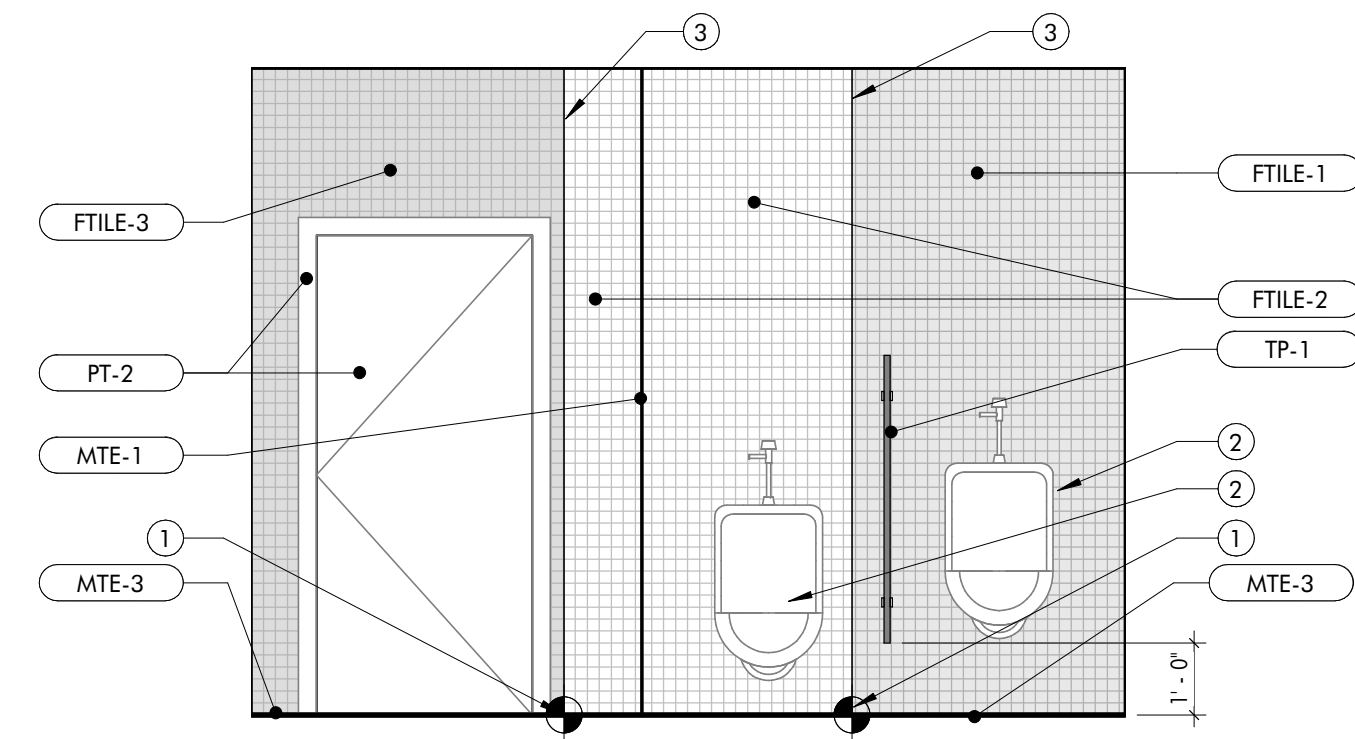
RESTROOM
ELEVATIONS

A3.1
BN1580

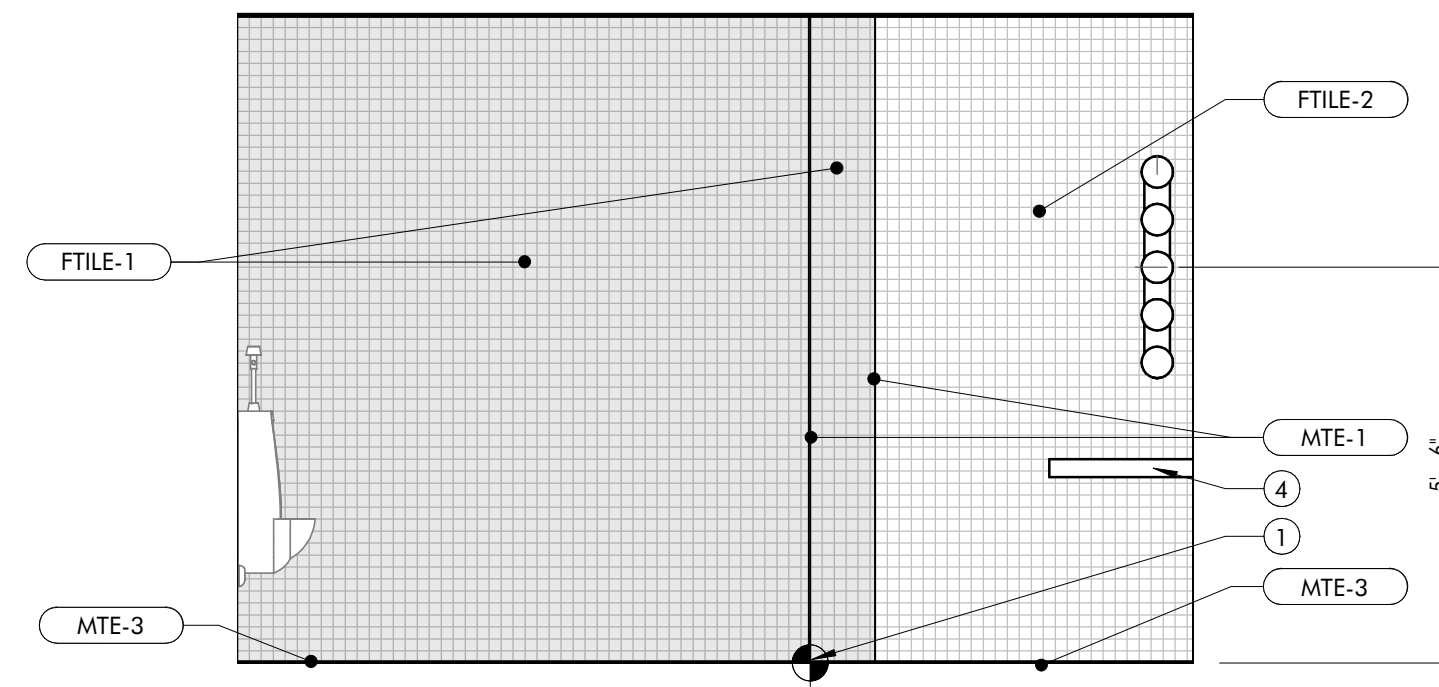
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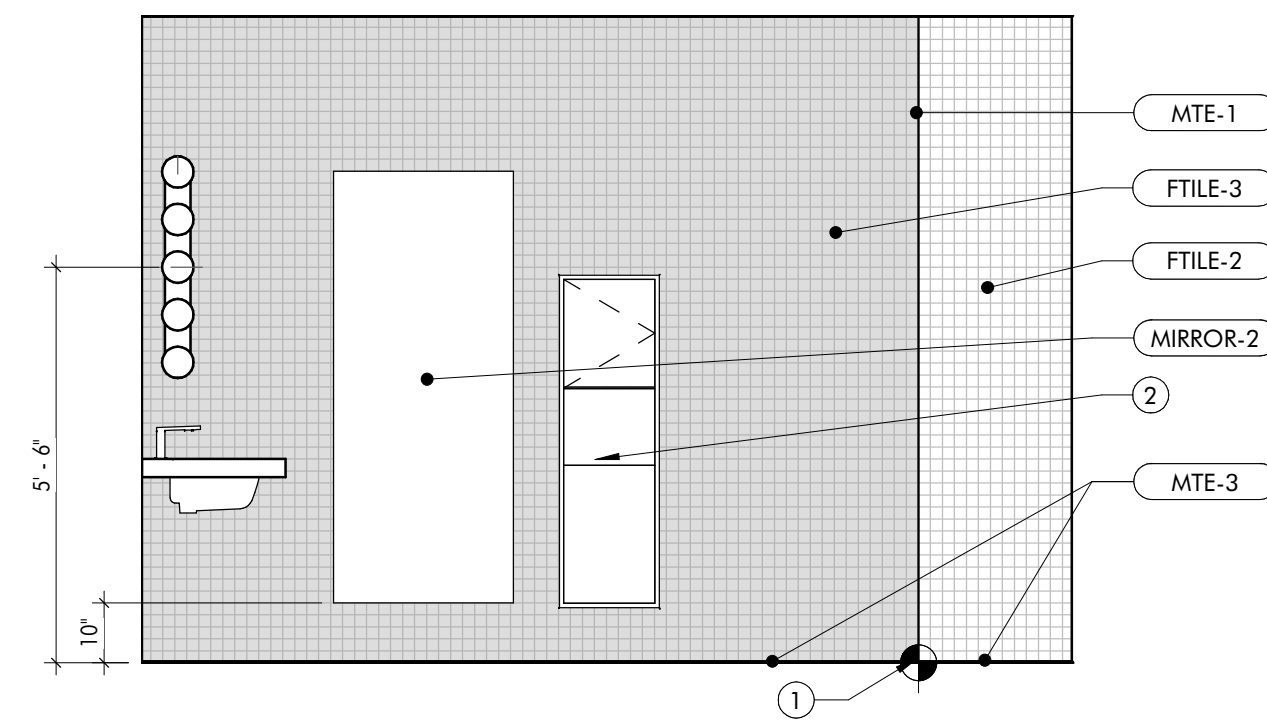
- 1 RESTROOM TILE START POINT, FOR REFERENCE ONLY. WALL TILE GROUT LINES TO ALIGN WITH FLOOR TILE GROUT LINES.
- 2 EXISTING FIXTURE TO REMAIN; CLEAN AND REPAIR IF NEEDED
- 3 WALL TILE TRANSITIONS TO ALIGN WITH FLOOR TILE TRANSITIONS. SEE FLOOR FINISH PLAN FOR DIMENSIONS.
- 4 COUNTERTOP AS SPECIFIED



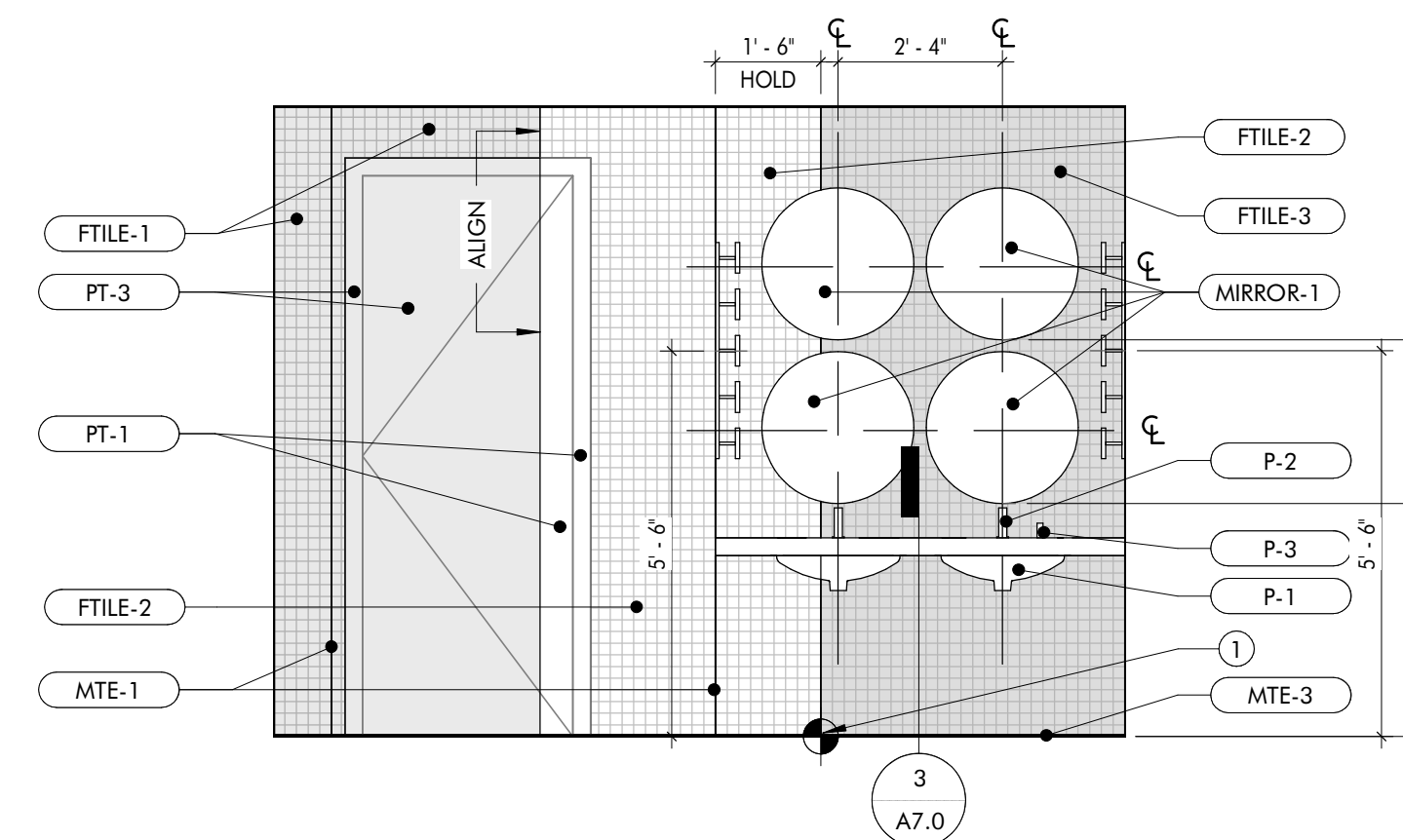
1 ELEVATION - MEN'S RESTROOM NORTH
3/8" = 1'-0"



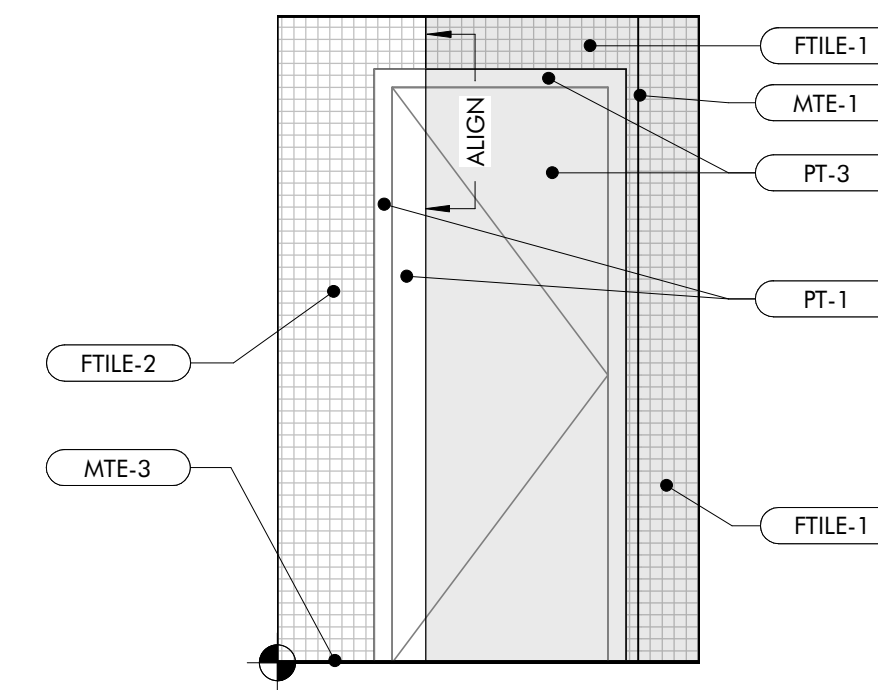
2 ELEVATION - MEN'S RESTROOM EAST
3/8" = 1'-0"



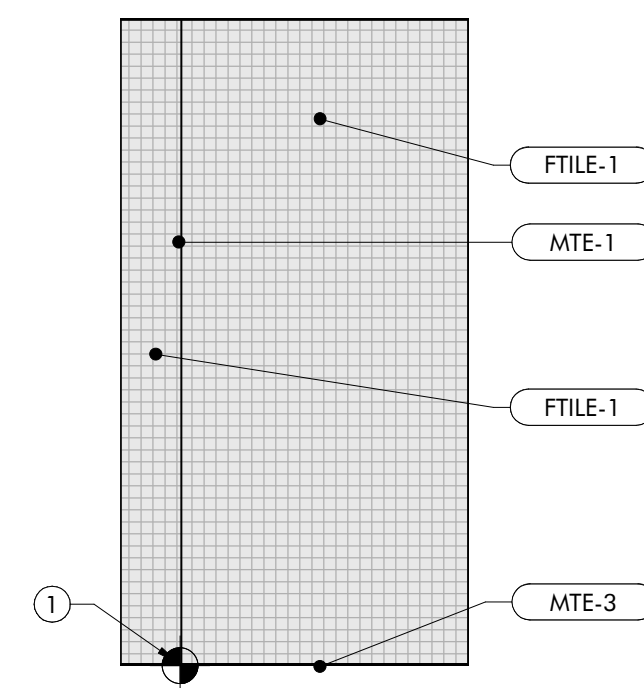
3 ELEVATION - MEN'S RESTROOM WEST
3/8" = 1'-0"



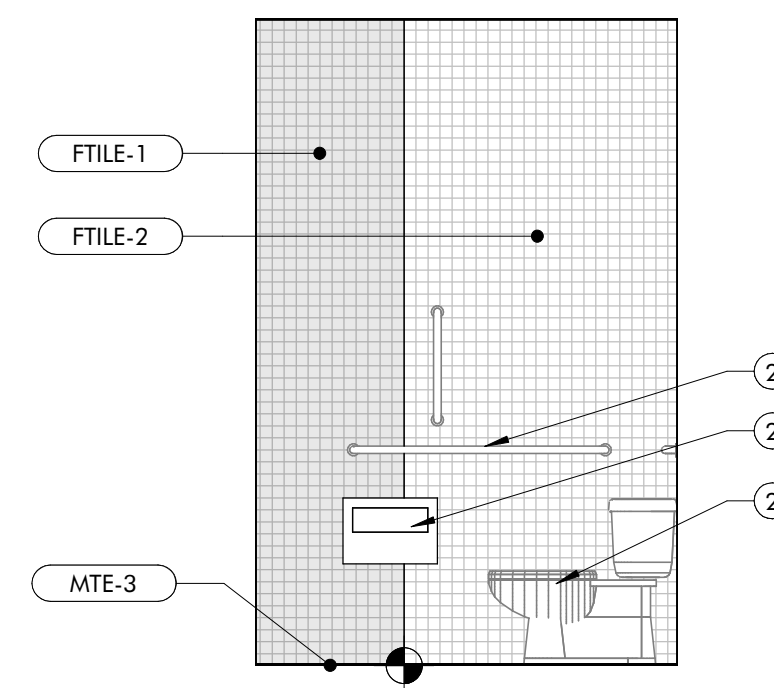
4 ELEVATION - MEN'S RESTROOM SOUTH
3/8" = 1'-0"



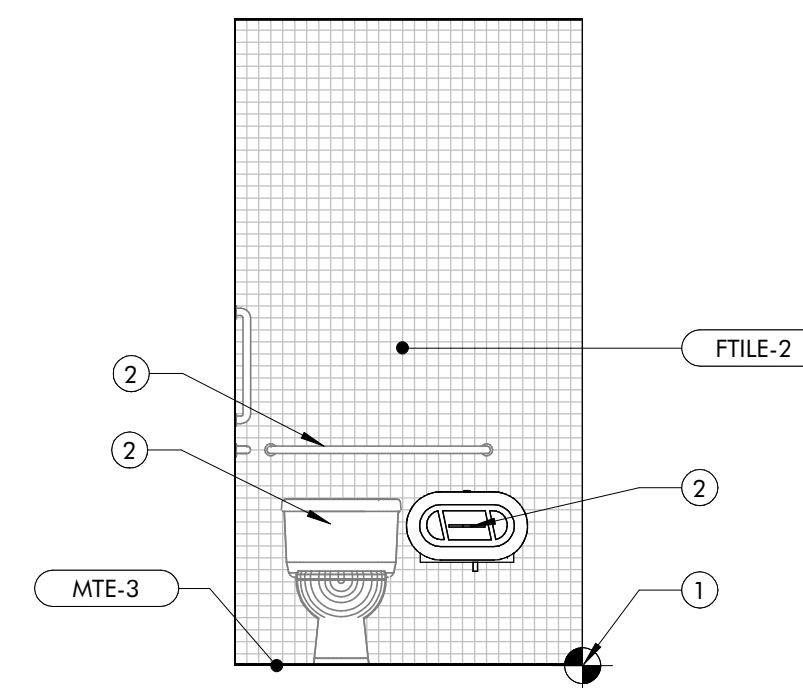
5 ELEVATION - MEN'S STALL NORTH
3/8" = 1'-0"



6 ELEVATION - MEN'S STALL EAST
3/8" = 1'-0"



7 ELEVATION - MEN'S STALL SOUTH
3/8" = 1'-0"



8 ELEVATION - MEN'S STALL WEST
3/8" = 1'-0"

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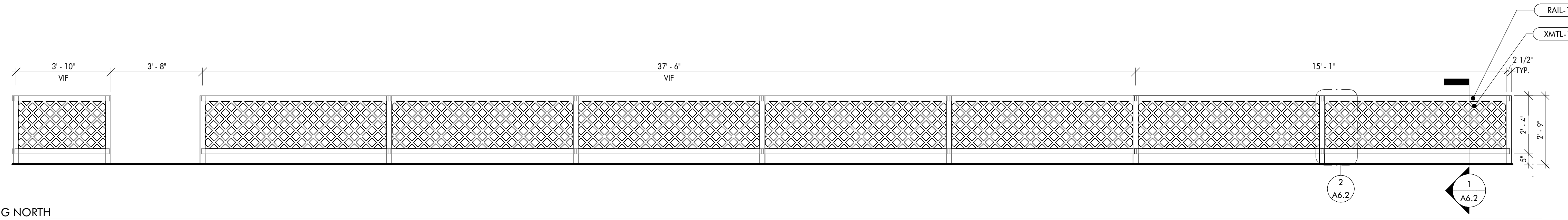
RESTROOM
ELEVATIONS

A3.2
BN1580

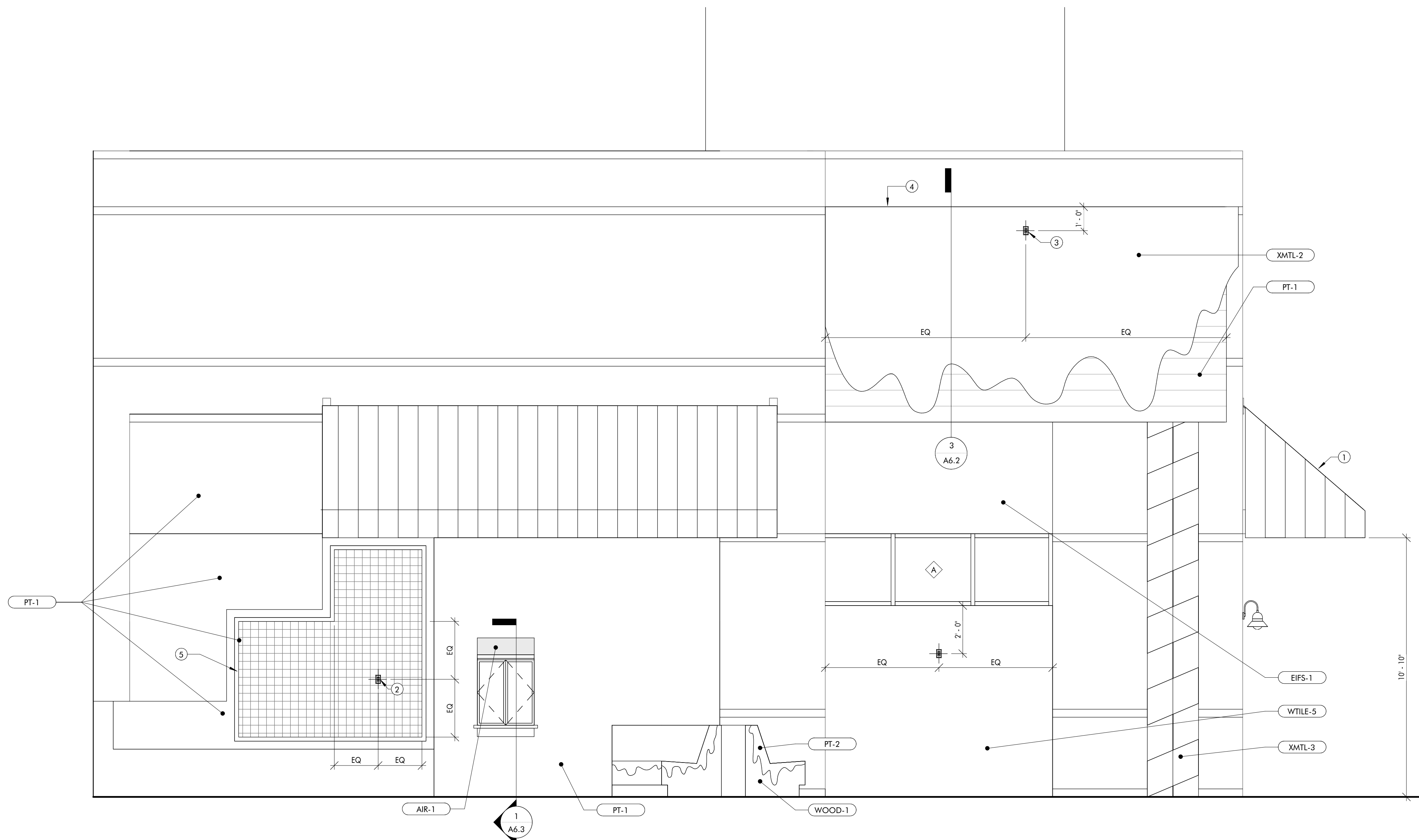
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SHEET KEYED NOTES

- 1 AWNING TO BE SUBMITTED UNDER SEPARATE PERMIT
- 2 PROVIDE POWER AND DATA
- 3 POWER TO BE LOCATED ON BACK SIDE OF PARAPET
- 4 TOP OF CORNER OVERHANG
- 5 EXISTING METAL SCREEN.



5 RAILING NORTH
3/8" = 1'-0"



6 EXTERIOR EAST COLOR
3/8" = 1'-0"

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BN1580 JOJO'S SHAKE BAR

15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

05.18.2022 PERMIT SET

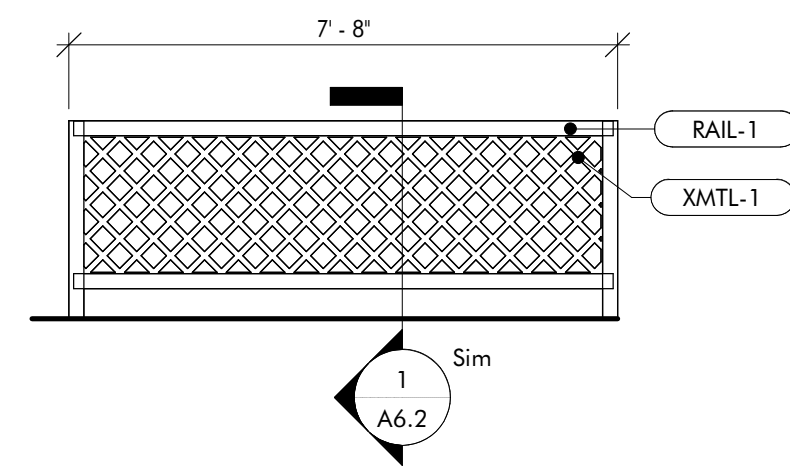
EXTERIOR /
STOREFRONT
ELEVATIONS

A5.0
BN1580

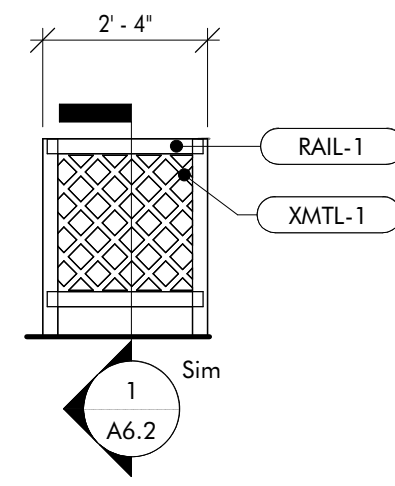
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SHEET KEYED NOTES

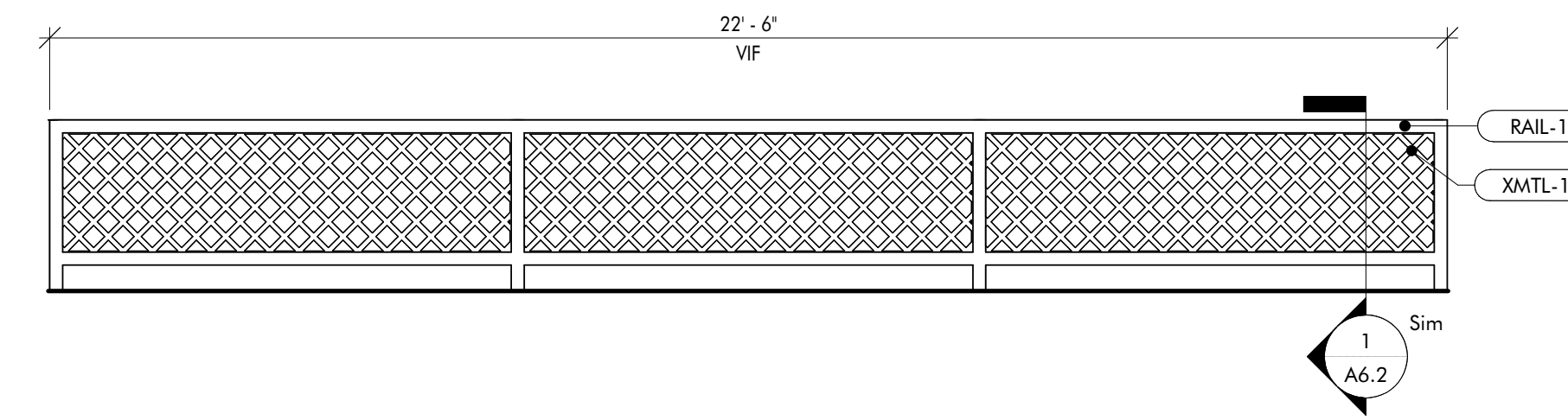
- 1 AWNING TO BE SUBMITTED UNDER SEPARATE PERMIT
- 2 REFER TO ELECTRICAL DRAWINGS
- 3 REFER TO DETAIL 3/A6.2 AND 4/A6.2. GC TO COORDINATE CAD FILES WITH METAL WORKER FOR CURVE ACCURACY.
- 4 LINE OF SCOPE



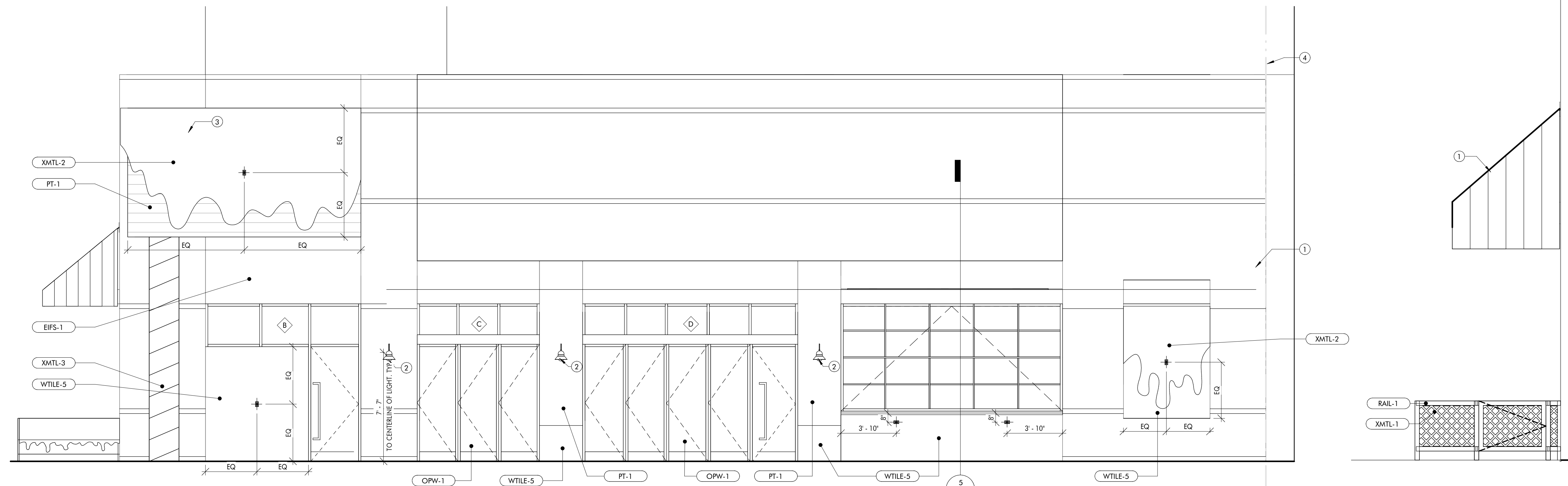
1 RAILING SOUTH
3/8" = 1'-0"



2 RAILING EAST
3/8" = 1'-0"



3 RAILING NORTHEAST
3/8" = 1'-0"



4 EXTERIOR NORTH COLOR
1/4" = 1'-0"

5 RAILING WEST GATE
3/8" = 1'-0"

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05.18.2022 PERMIT SET

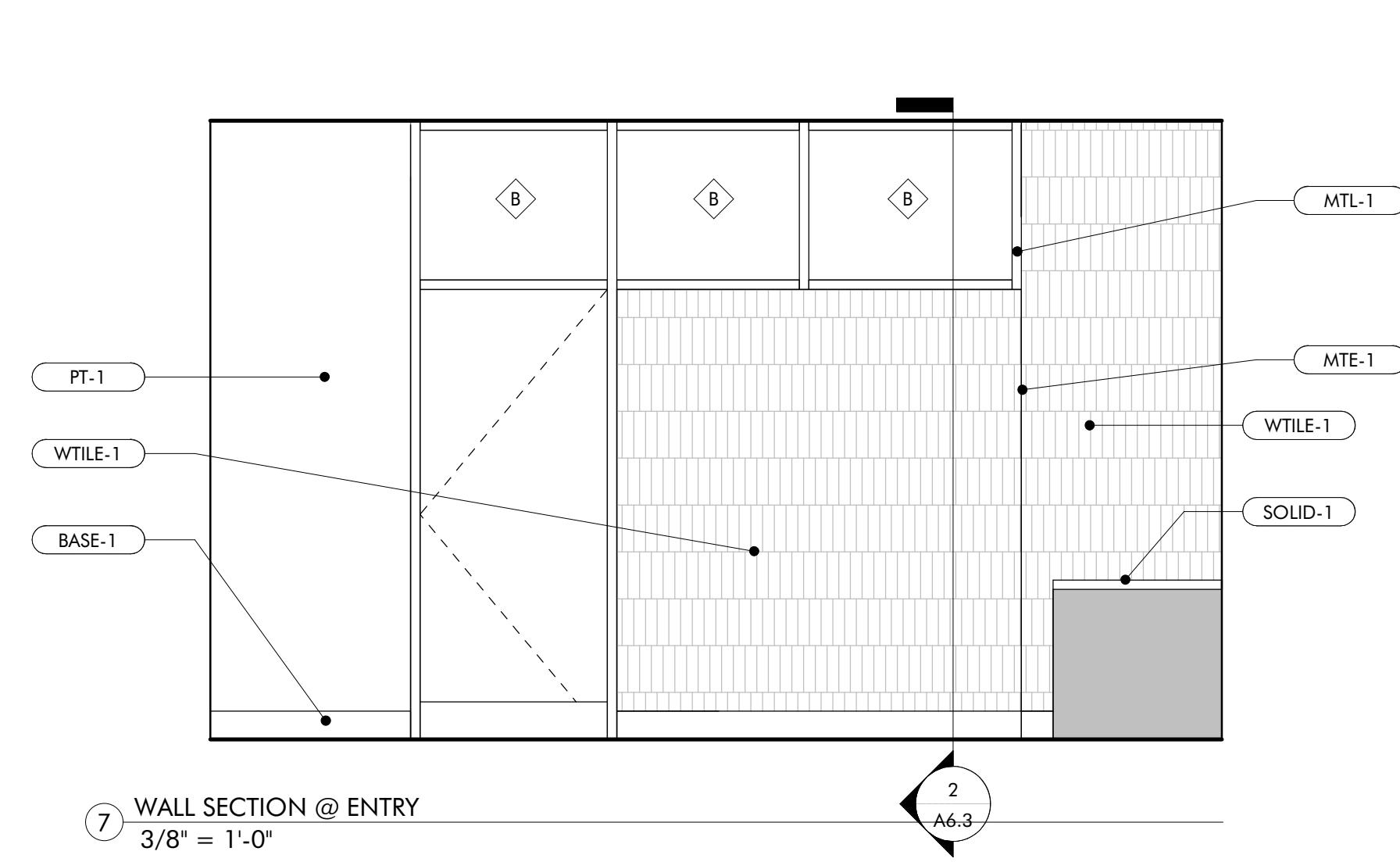
EXTERIOR /
STOREFRONT
ELEVATIONS

A5.1
BN1580

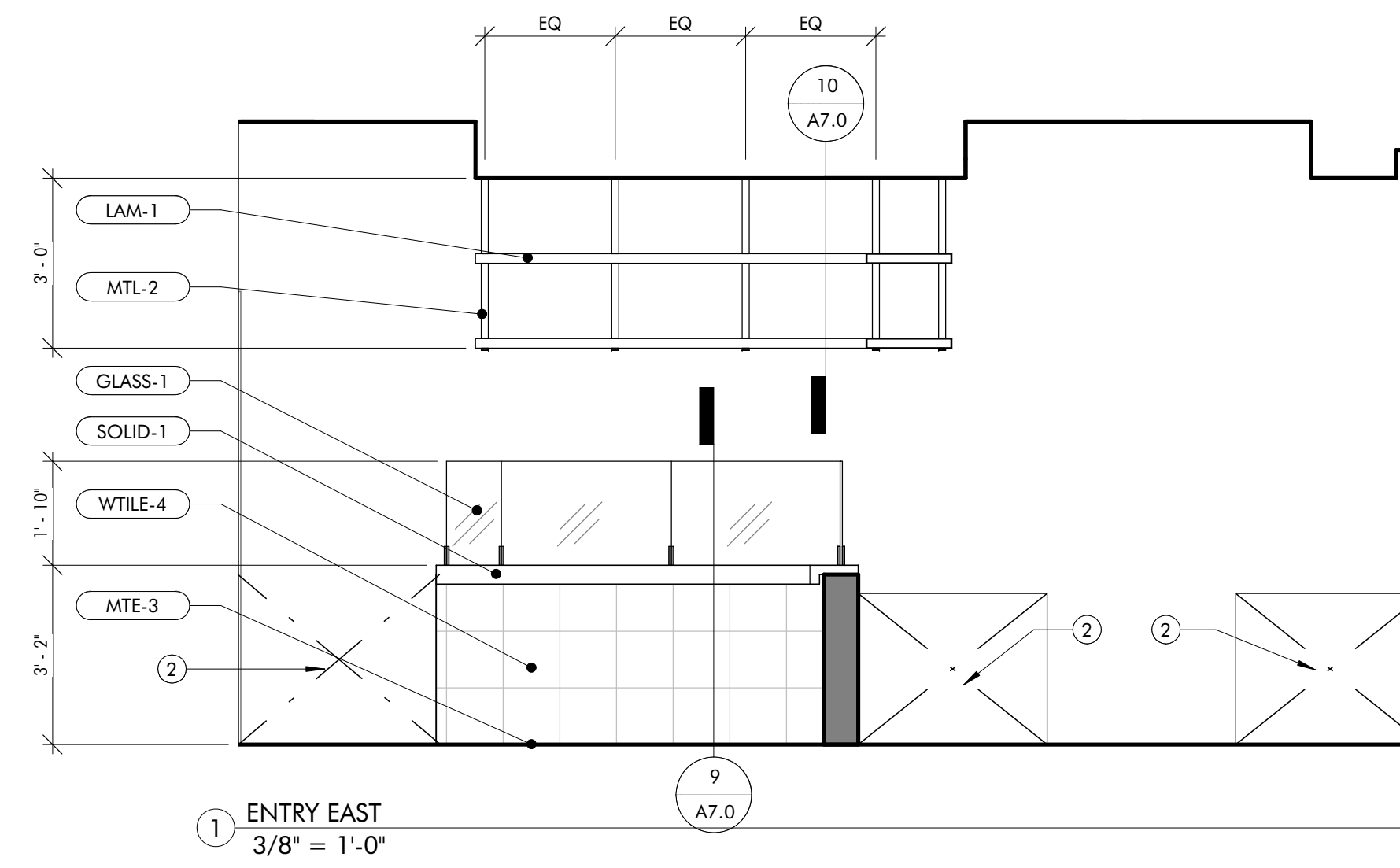
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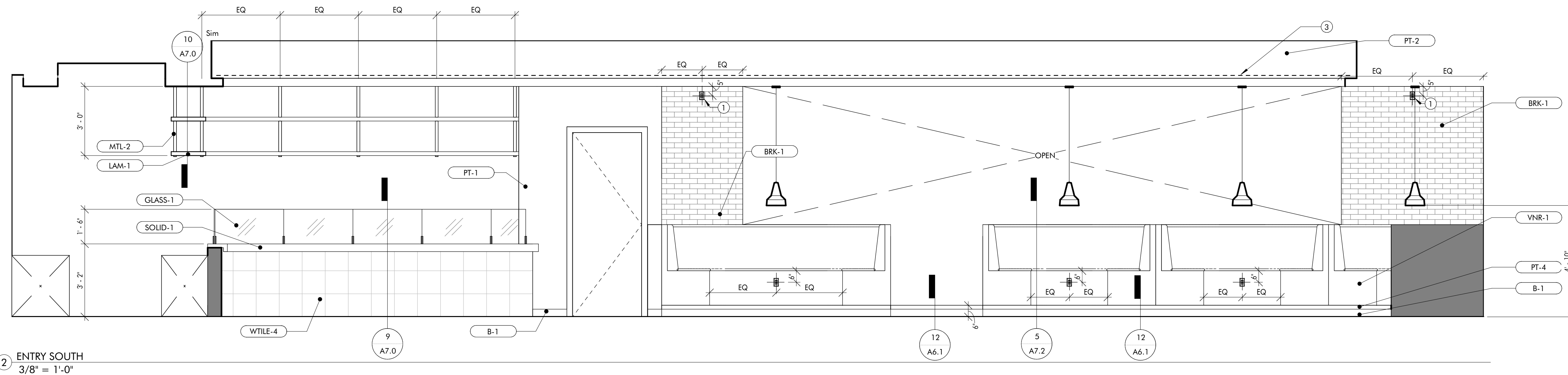
- 1 PROVIDE POWER AND DATA
- 2 OPEN FOR EQUIPMENT; REFER TO MPE & FS DRAWINGS FOR ADDITIONAL INFO
- 3 LIGHT FIXTURE AS SPECIFIED. REFER TO ELECTRICAL DRAWINGS.



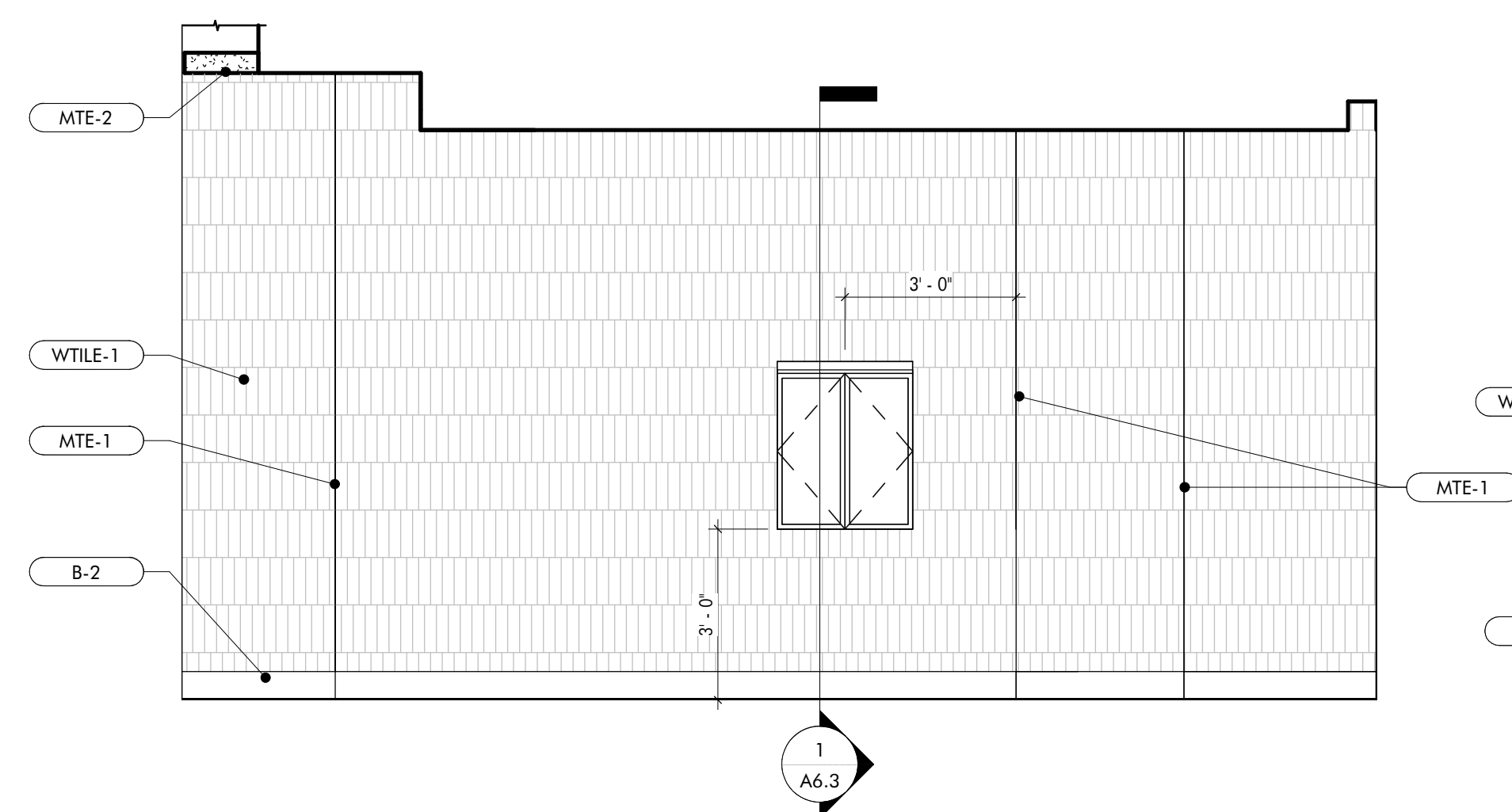
7 WALL SECTION @ ENTRY
3/8" = 1'-0"



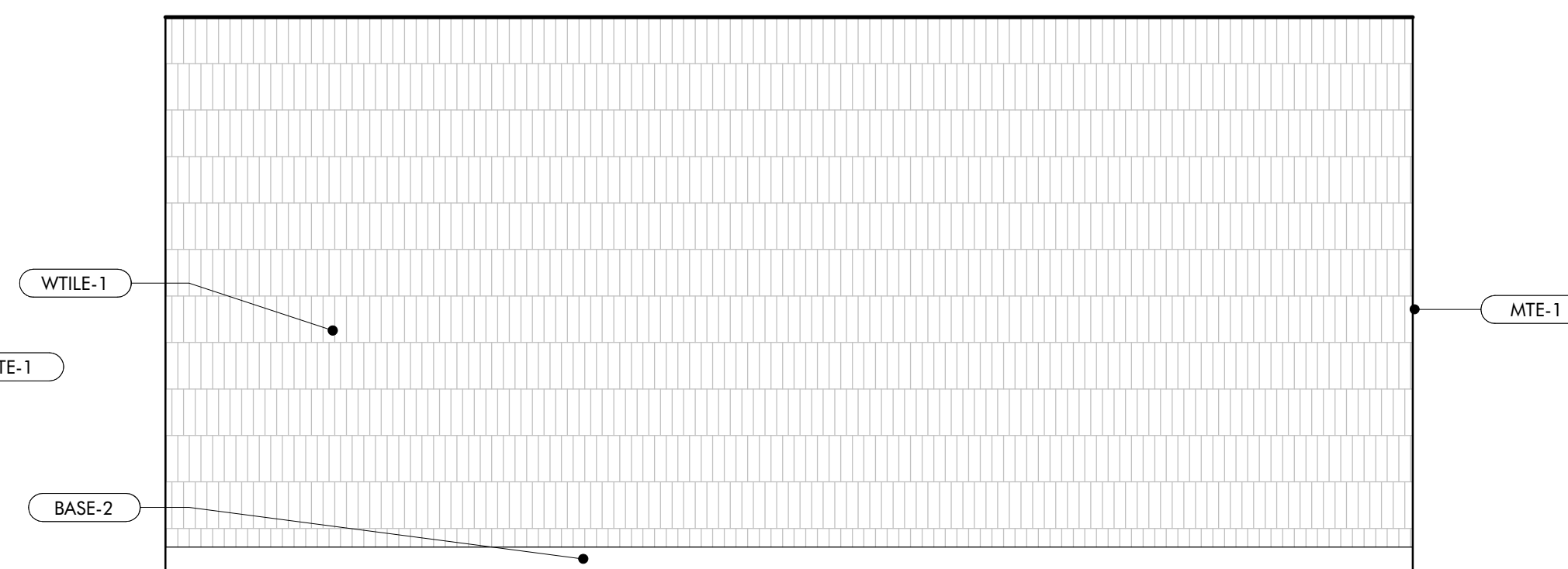
1 ENTRY EAST
3/8" = 1'-0"



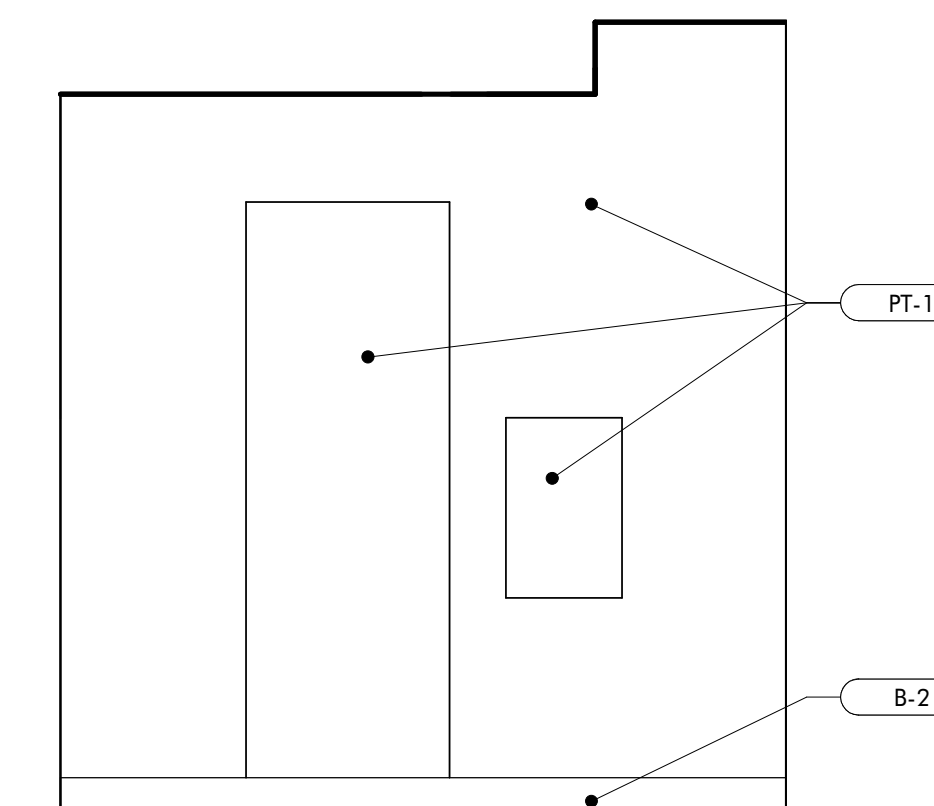
2 ENTRY SOUTH
3/8" = 1'-0"



3 INTERIOR TAKE OUT WALL
3/8" = 1'-0"



4 VINTAGE MIXER WALL
3/8" = 1'-0"



5 BACK OF HOUSE WEST
3/8" = 1'-0"

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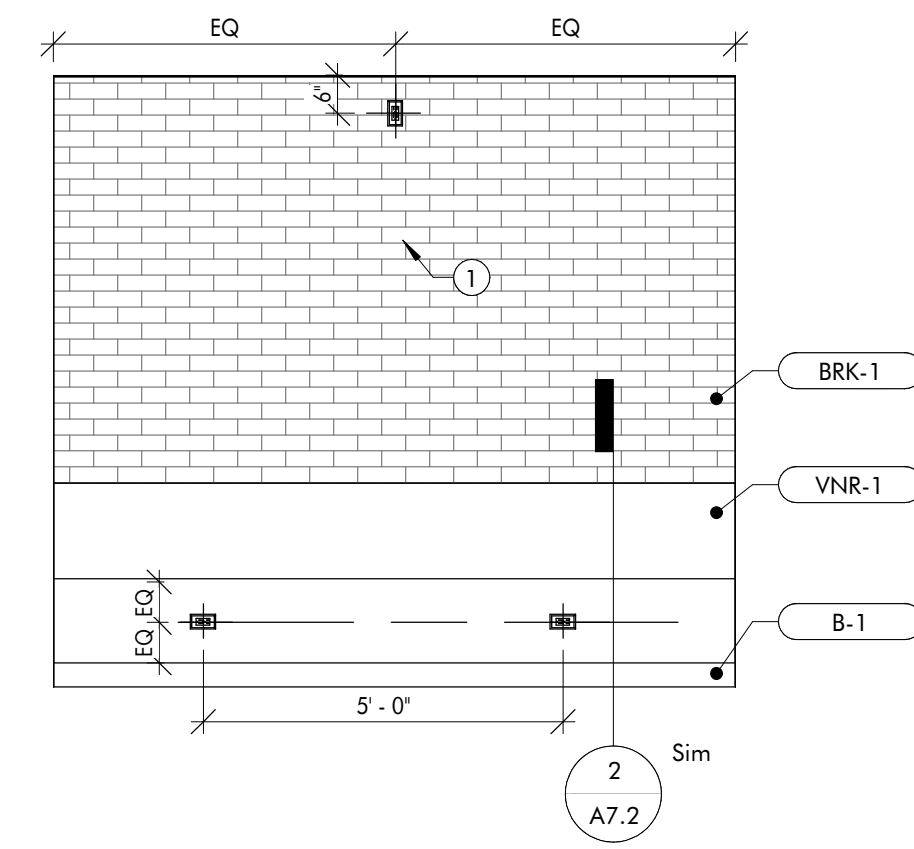
INTERIOR
ELEVATIONS

A5.2
BN1580

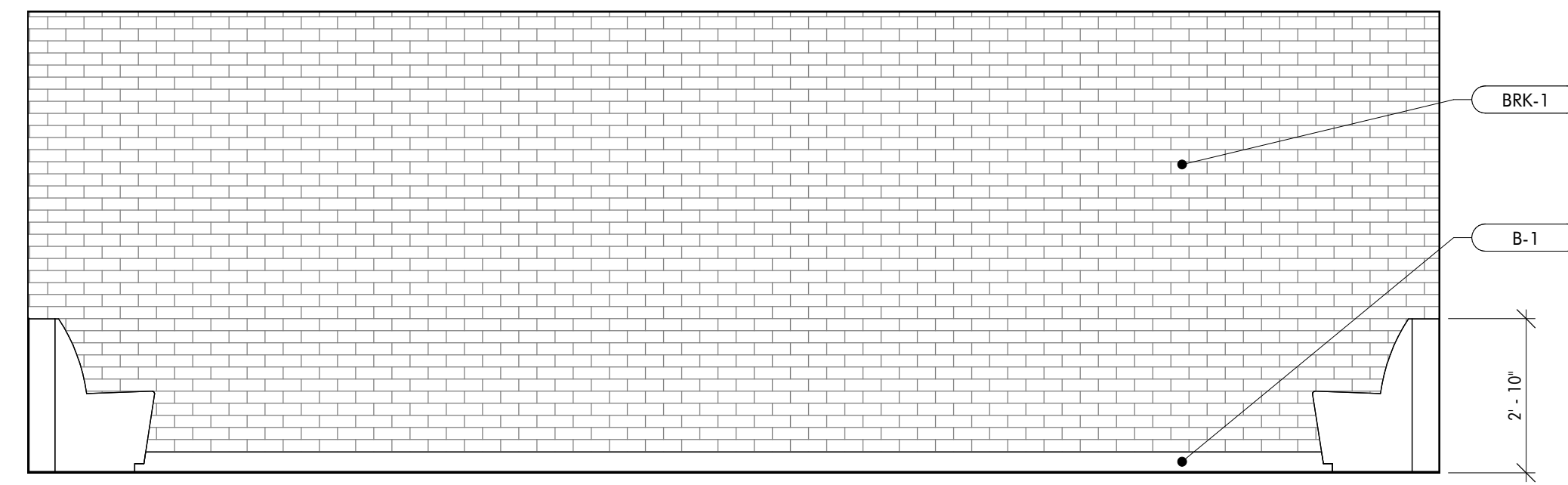
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SHEET KEYED NOTES

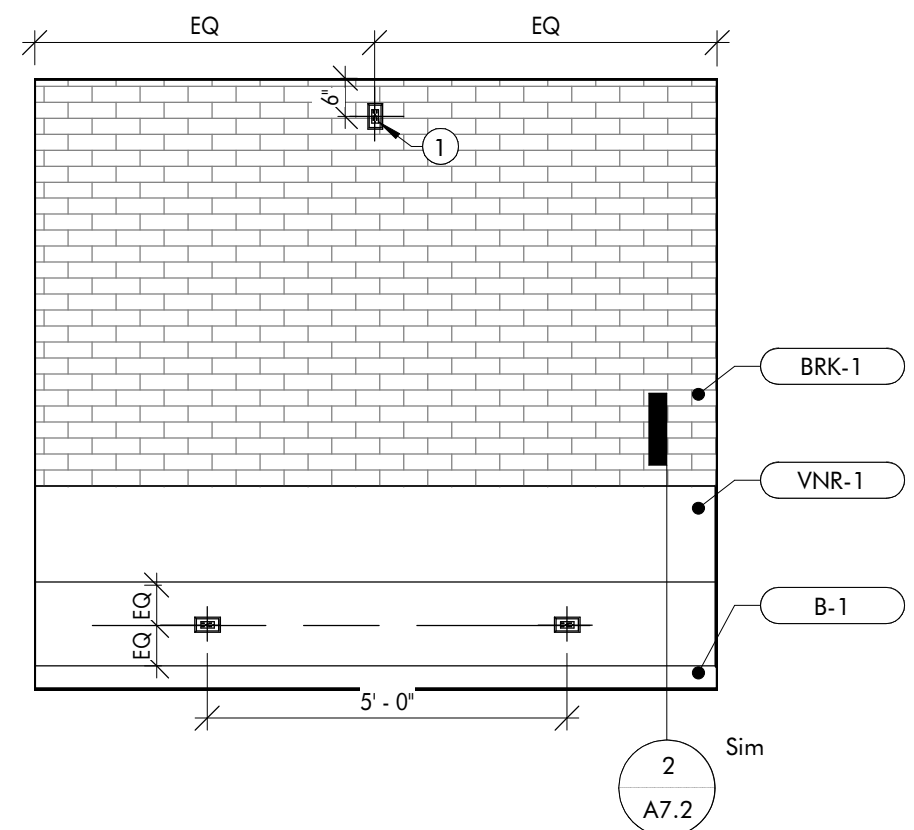
- 1 PROVIDE POWER AND DATA
- 2 LIGHT FIXTURE AS SPECIFIED. REFER TO ELECTRICAL DRAWINGS.



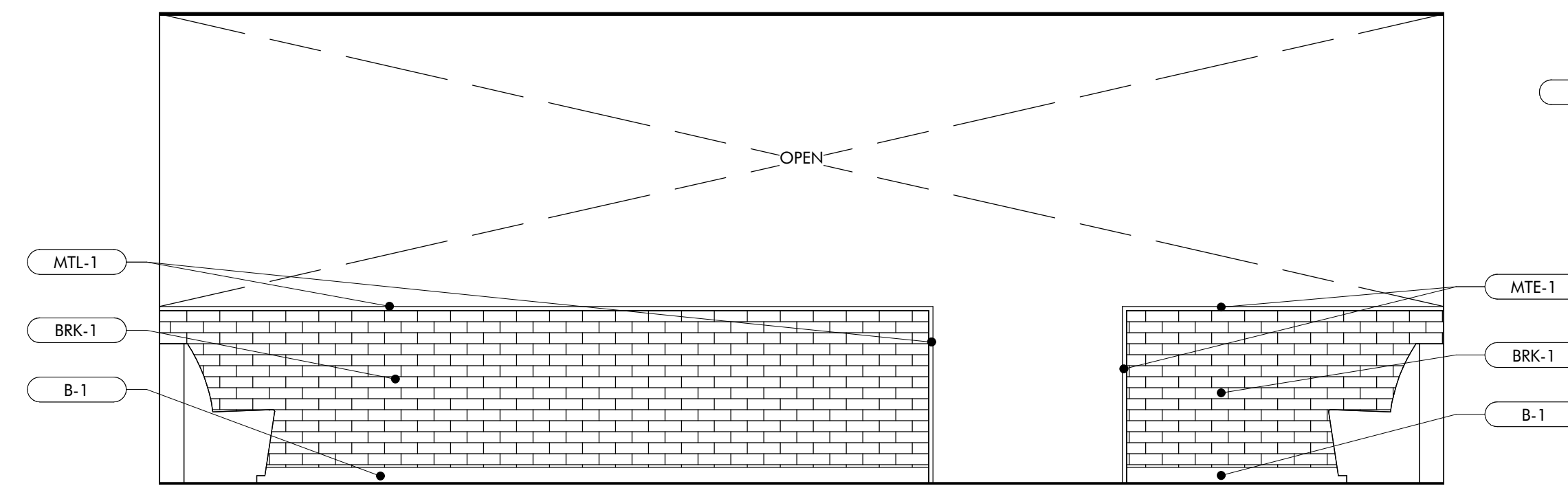
① PDR LEFT WALL
3/8" = 1'-0"



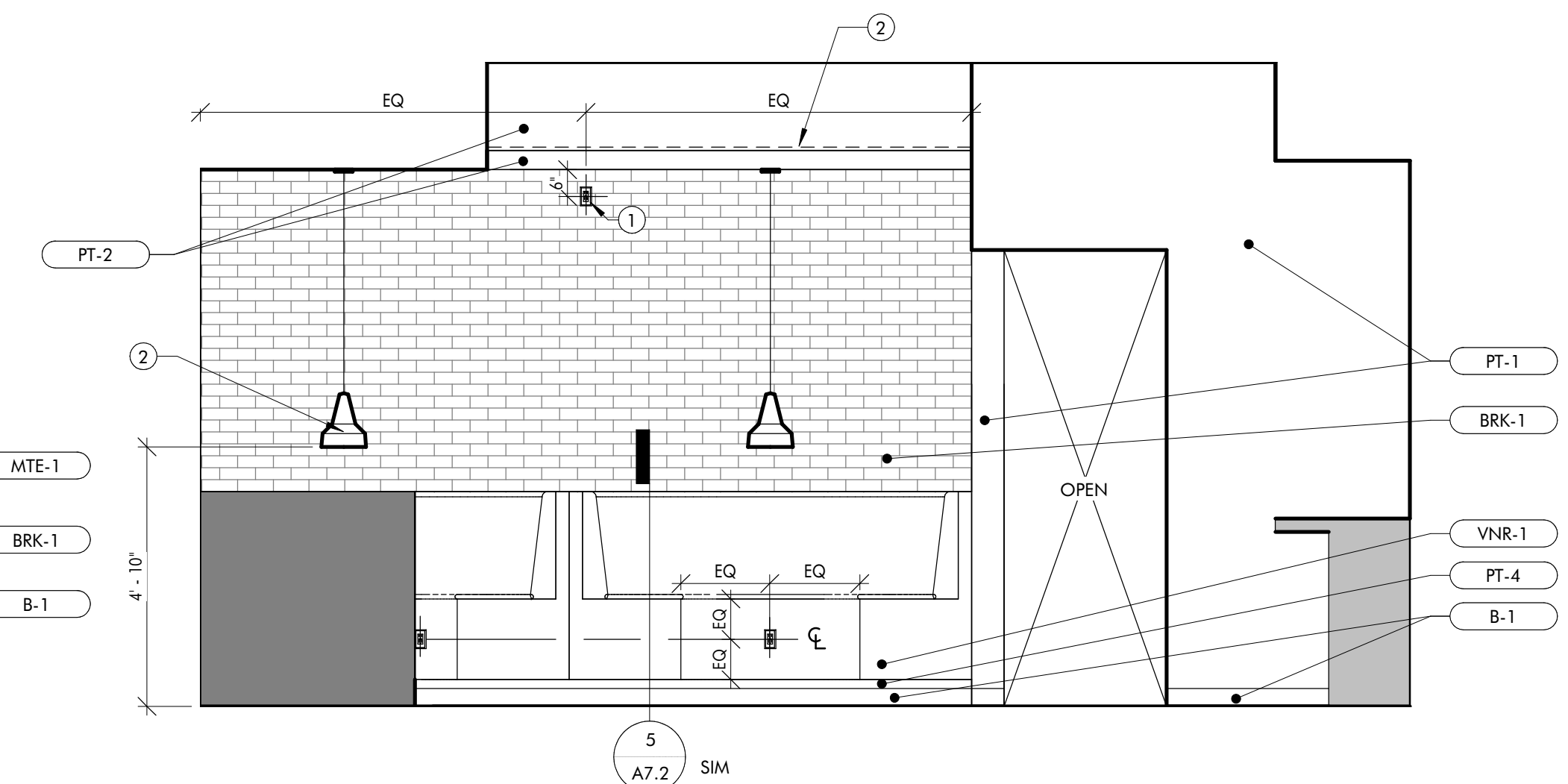
② PDR BACK WALL
3/8" = 1'-0"



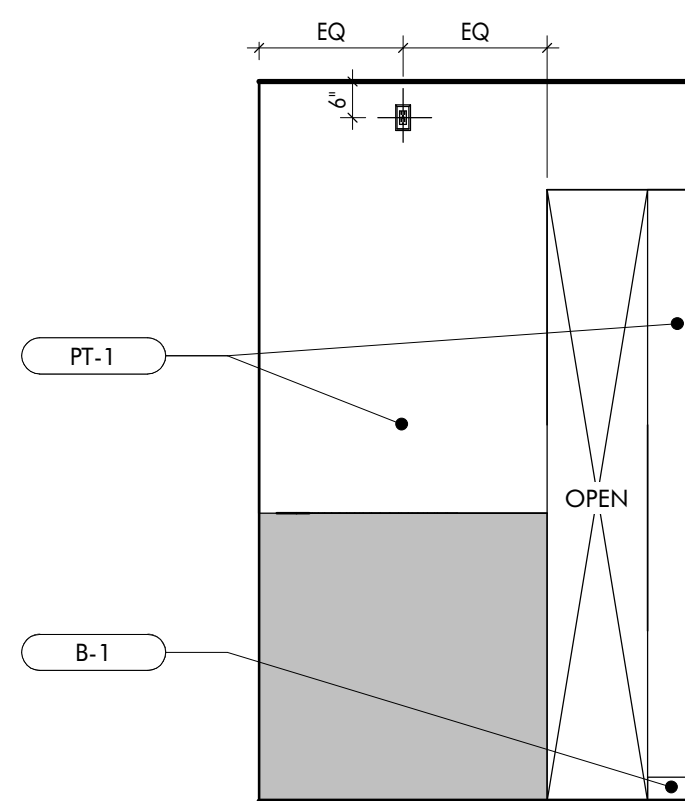
③ PDR RIGHT WALL
3/8" = 1'-0"



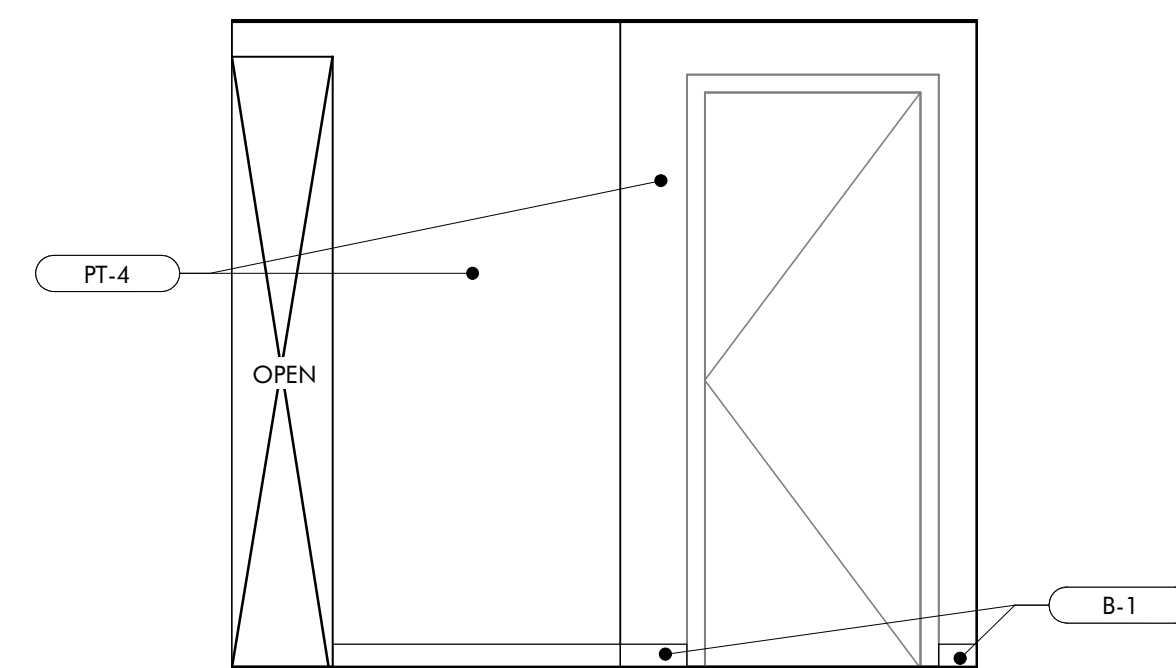
④ PDR GLASS WALL
3/8" = 1'-0"



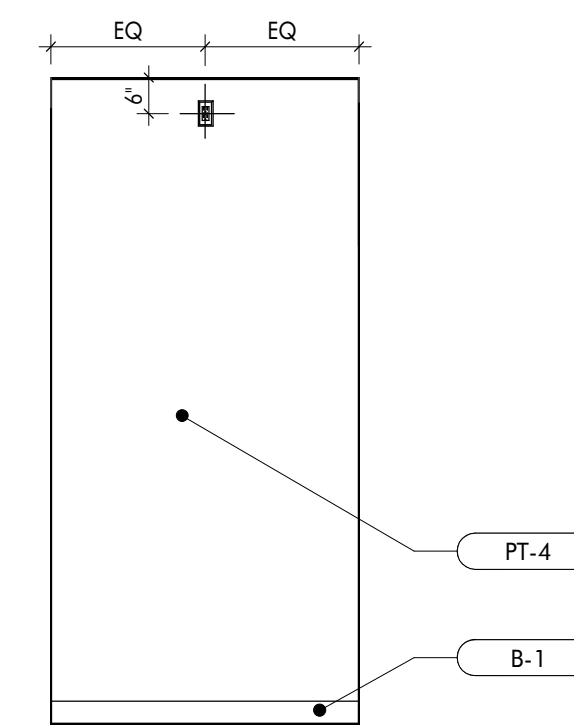
⑥ ADJACENT BOOTH WALL
3/8" = 1'-0"



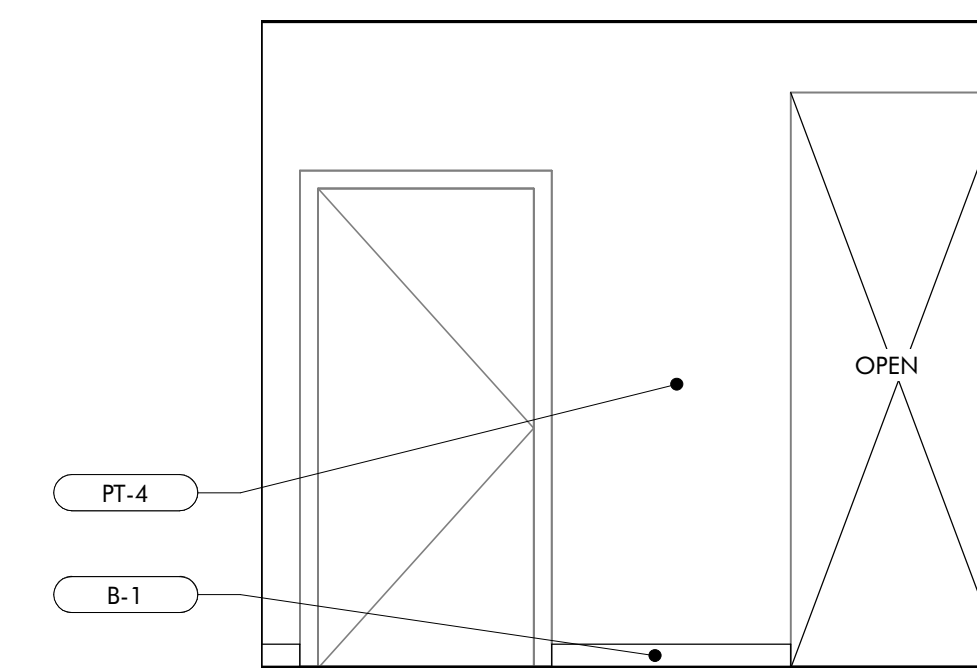
⑤ BOOTH WING WALL
3/8" = 1'-0"



⑦ CORRIDOR SOUTH
3/8" = 1'-0"



⑧ CORRIDOR WEST
3/8" = 1'-0"



⑨ CORRIDOR NORTH
3/8" = 1'-0"

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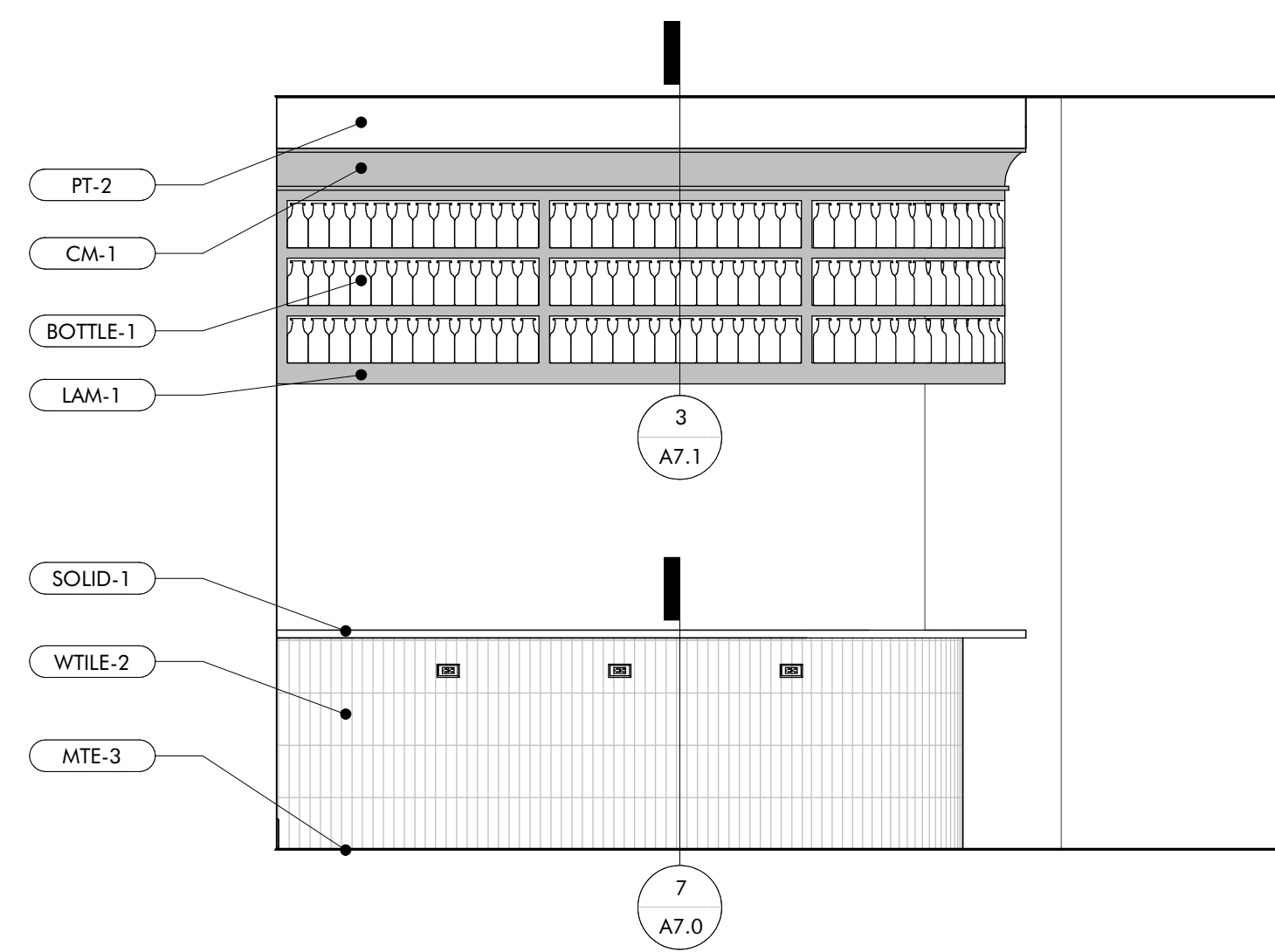
INTERIOR
ELEVATIONS

A5.3
BN1580

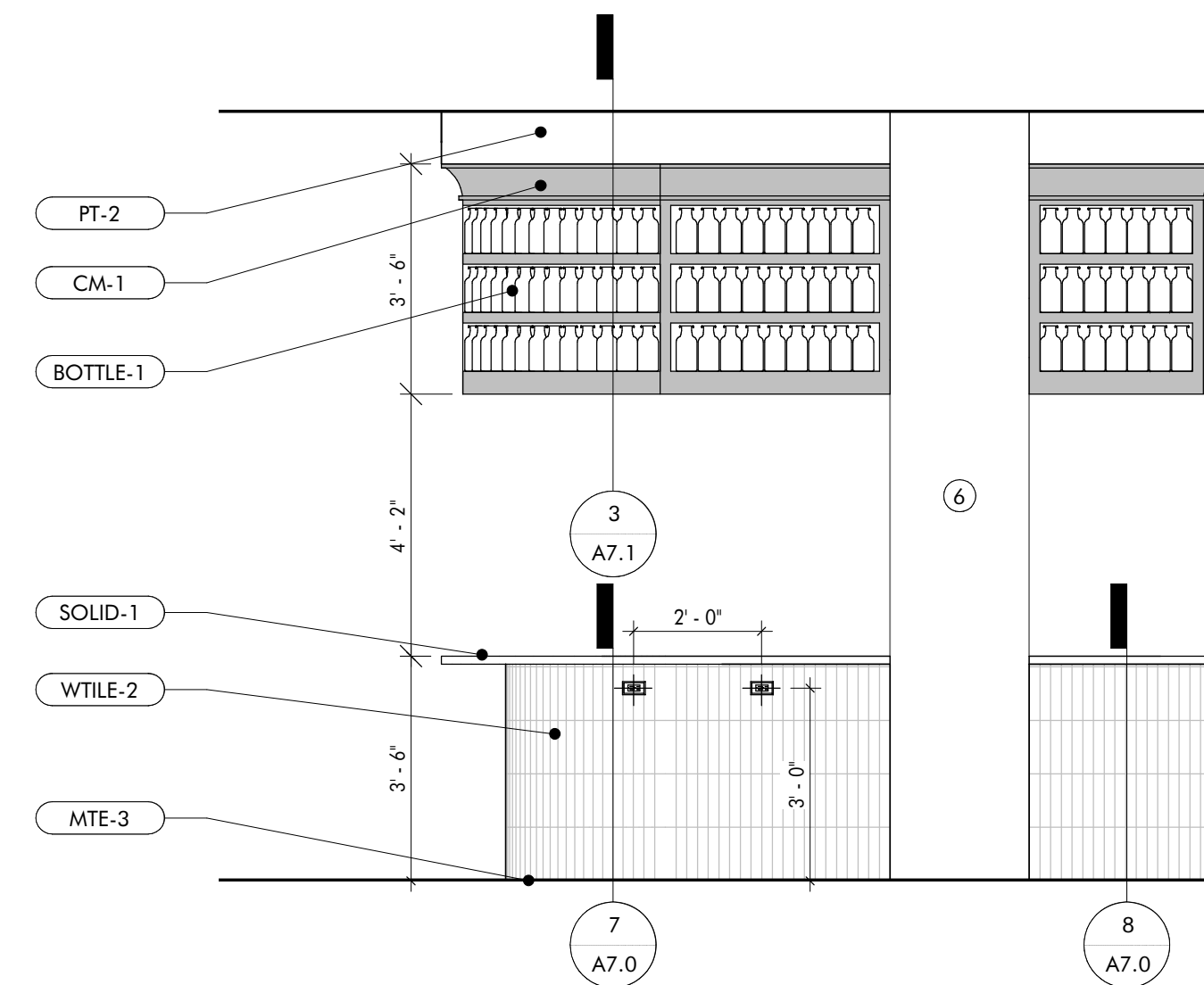
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SHEET KEYED NOTES

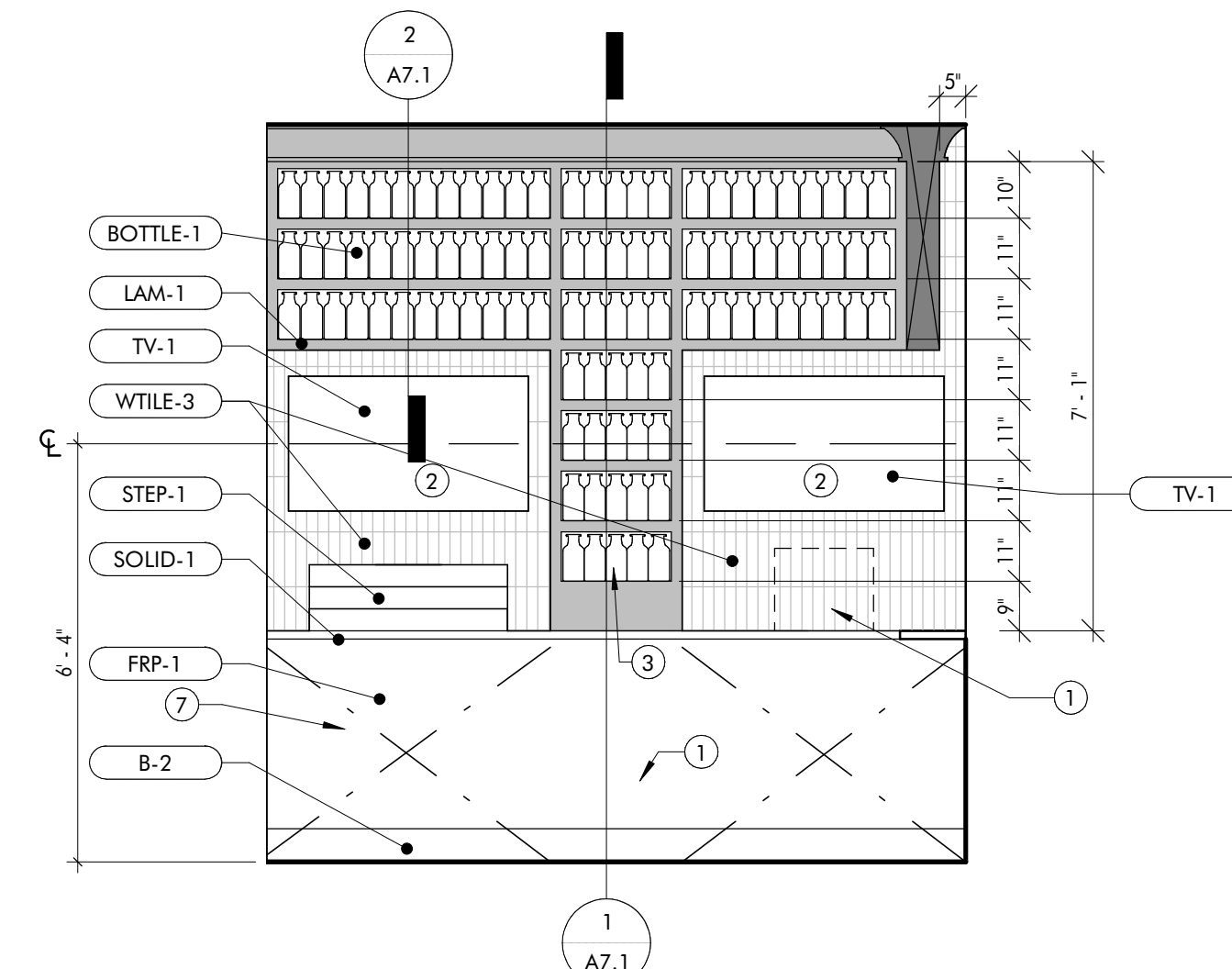
- 1 OPEN FOR EQUIPMENT; REFER TO MPE & FS DRAWINGS FOR ADDITIONAL INFO
- 2 T.V. BY OTHERS; G.C. TO PROVIDE UTILITY
- 3 PROVIDE POWER AT WALL FOR LIQUOR SHELF; GC TO COORDINATE GROMMET SIZE AT MILLWORK SIDE PANEL WITH PLUG FOR LIQUOR SHELF
- 4 PROVIDE POWER AND DATA
- 5 LIGHT FIXTURE AS SPECIFIED; REFER TO ELECTRICAL DRAWINGS.
- 6 EXISTING COLUMN
- 7 FRP-1 TO BE APPLIED IN ALL INTERIOR BAR AND SHAKE STATION WALLS UP TO 3'-6" ON EQUIPMENT SIDE. TYP.



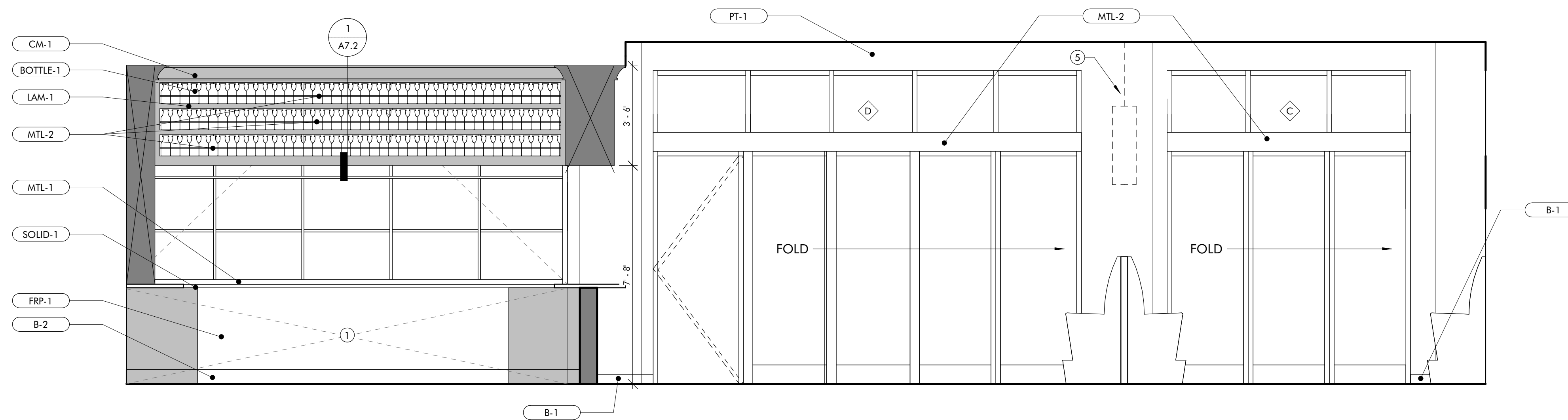
1 BAR SOUTH DINING SIDE
3/8" = 1'-0"



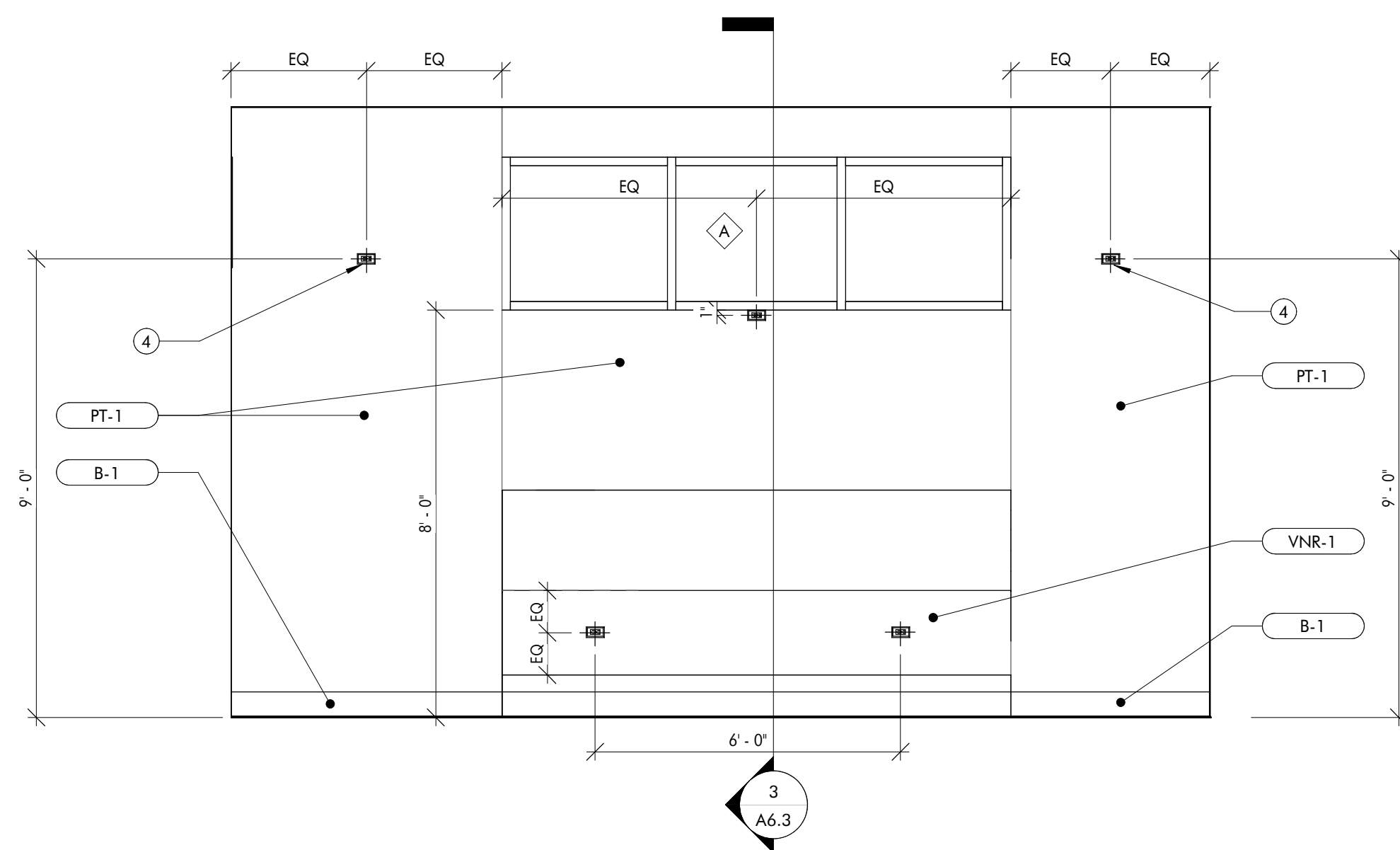
2 BAR EAST DINING SIDE
3/8" = 1'-0"



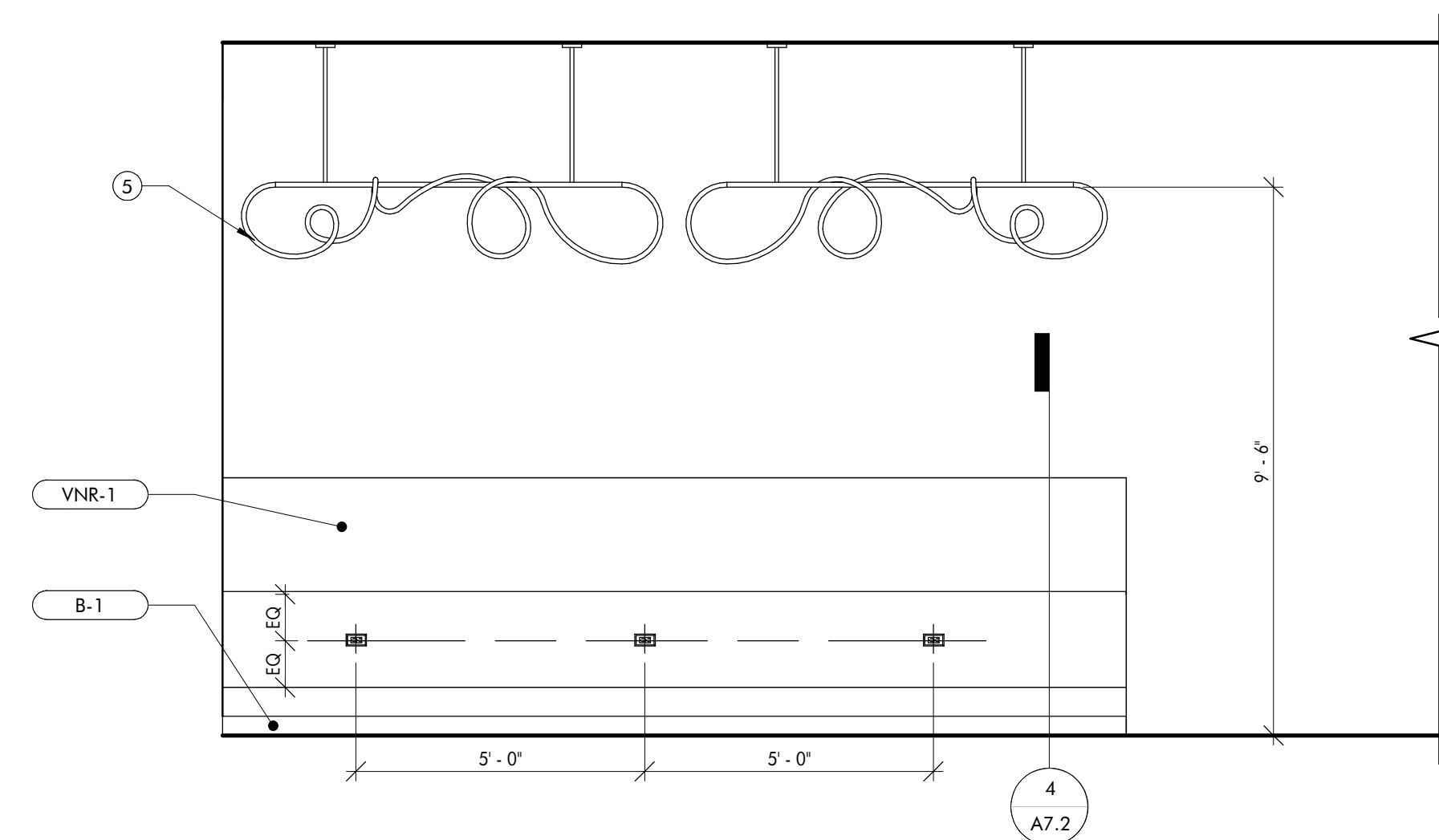
3 BACK BAR
3/8" = 1'-0"



4 BAR WINDOW WALL
3/8" = 1'-0"



5 HIGH BANQUETTE
3/8" = 1'-0"



6 BANQUETTE ISLAND EAST
3/8" = 1'-0"

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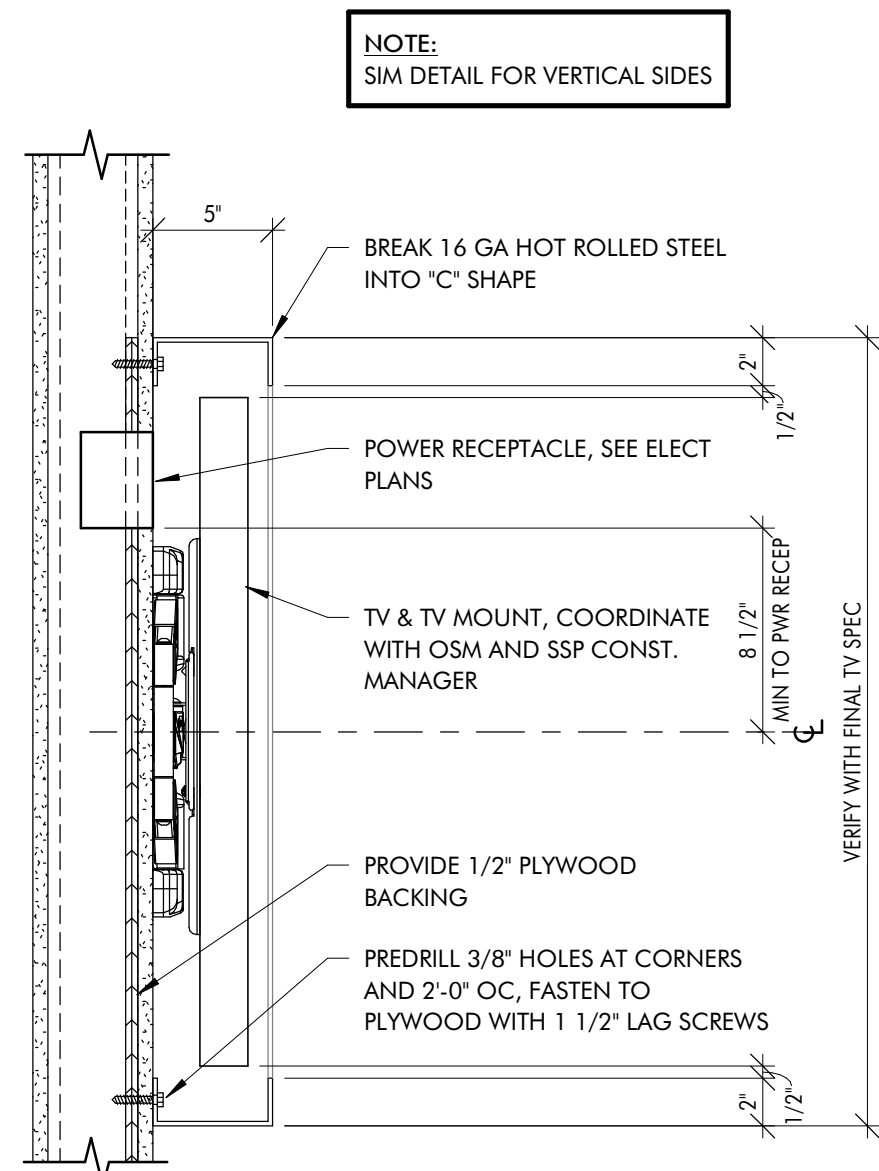
BN1580 JOJO'S SHAKE BAR
15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

05.18.2022 PERMIT SET

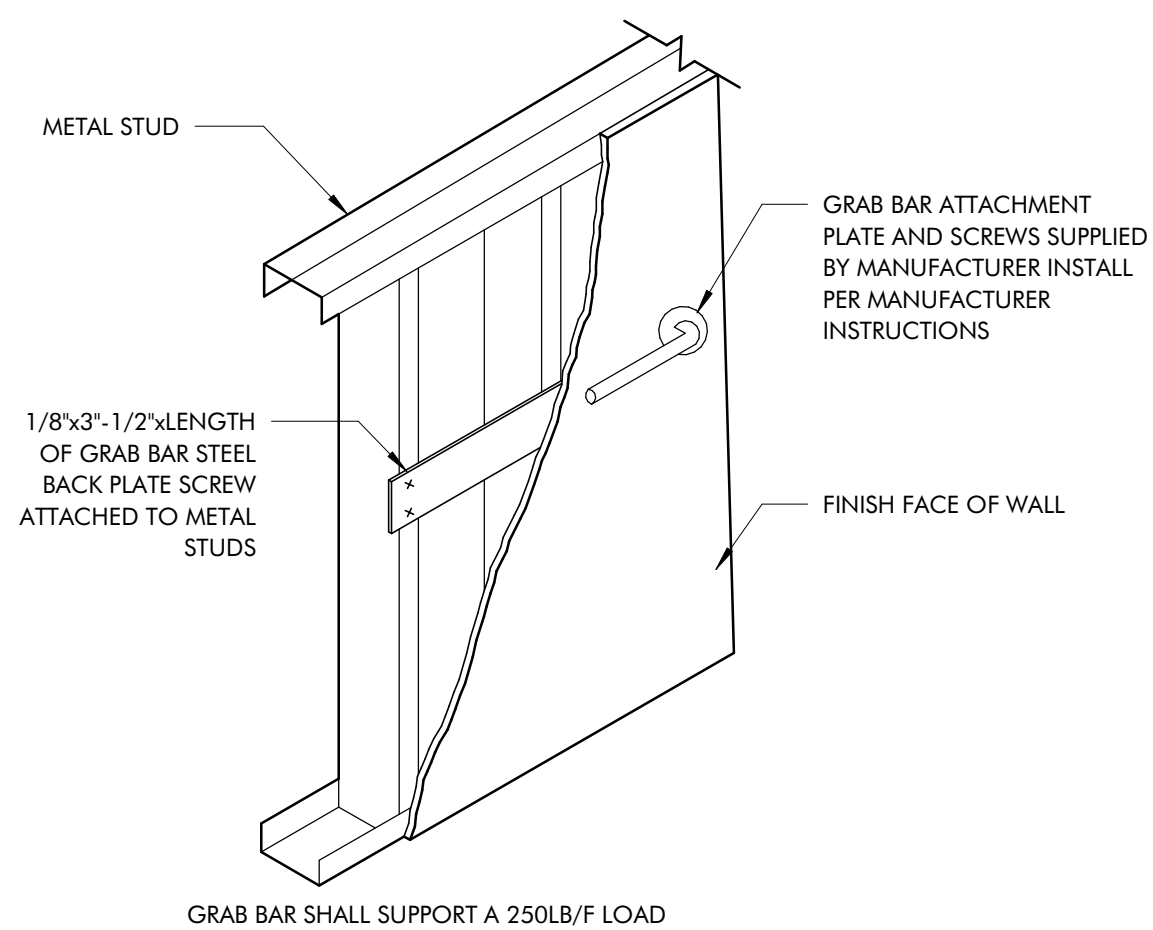
INTERIOR
ELEVATIONS

A5.4
BN1580

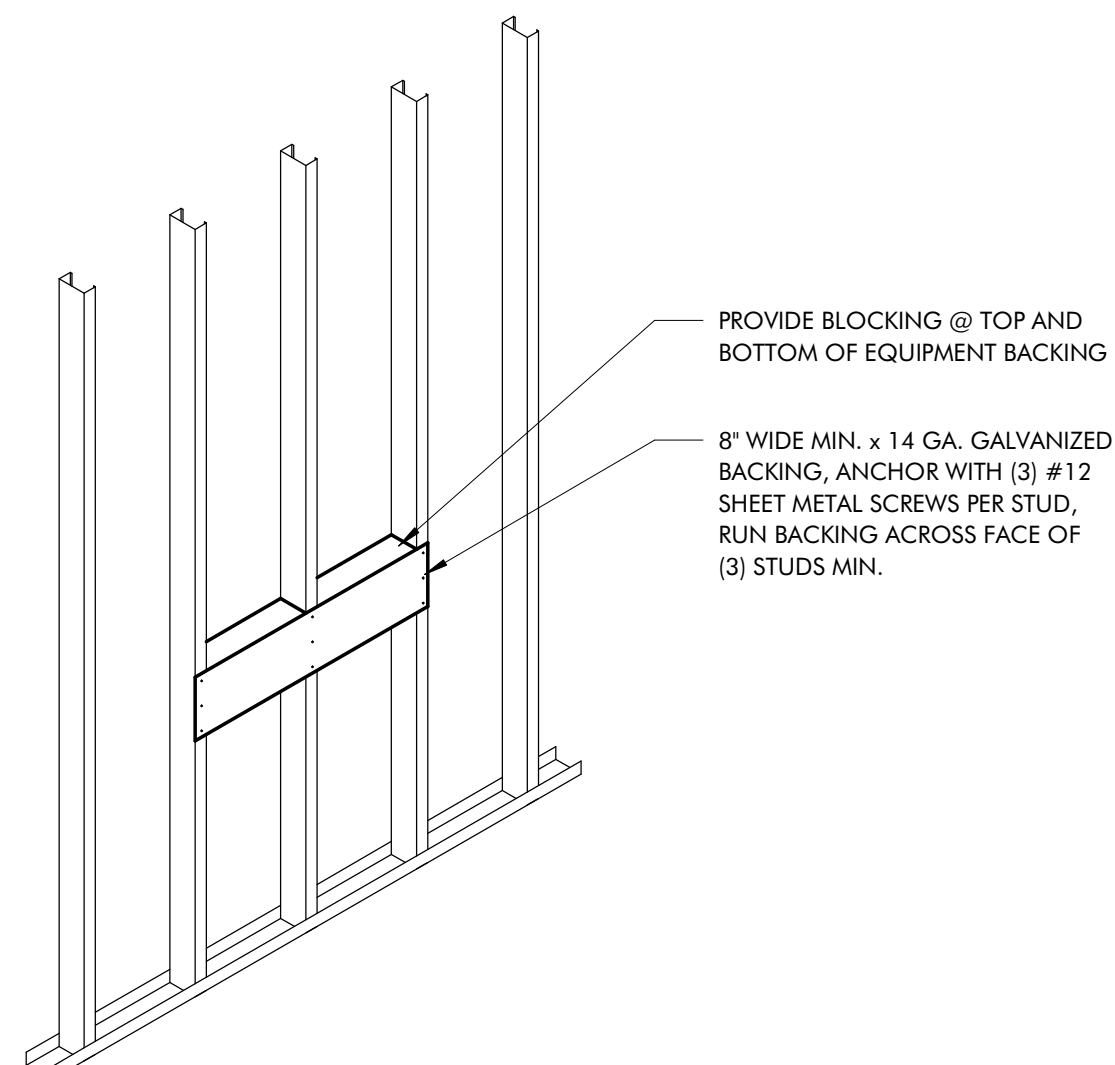
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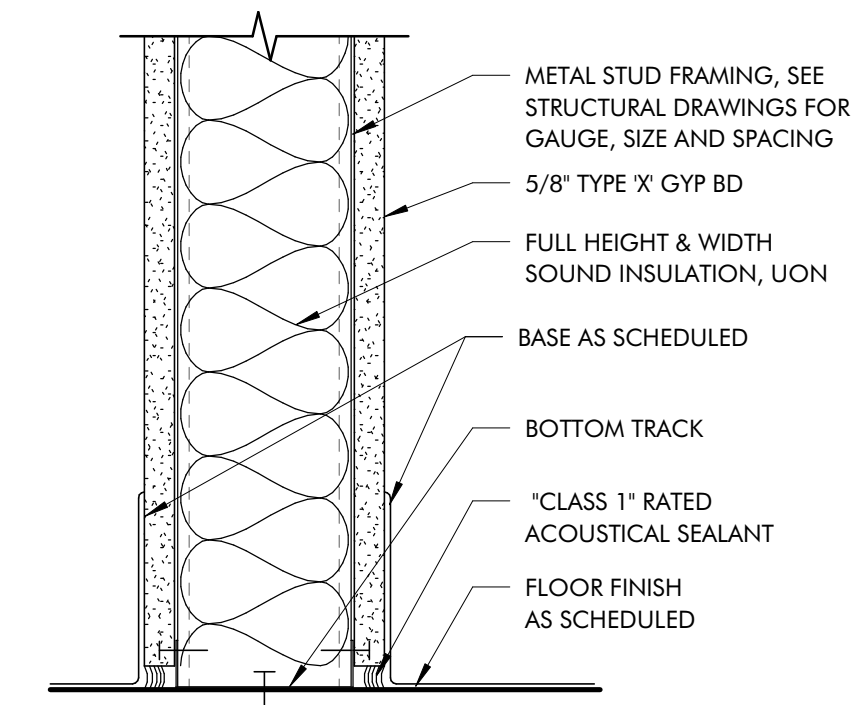
1 AVV-METAL TV FRAME SECTION
1 1/2" = 1'-0"



2 ACC-GRAB BAR ATTACHMENT
12" = 1'-0"

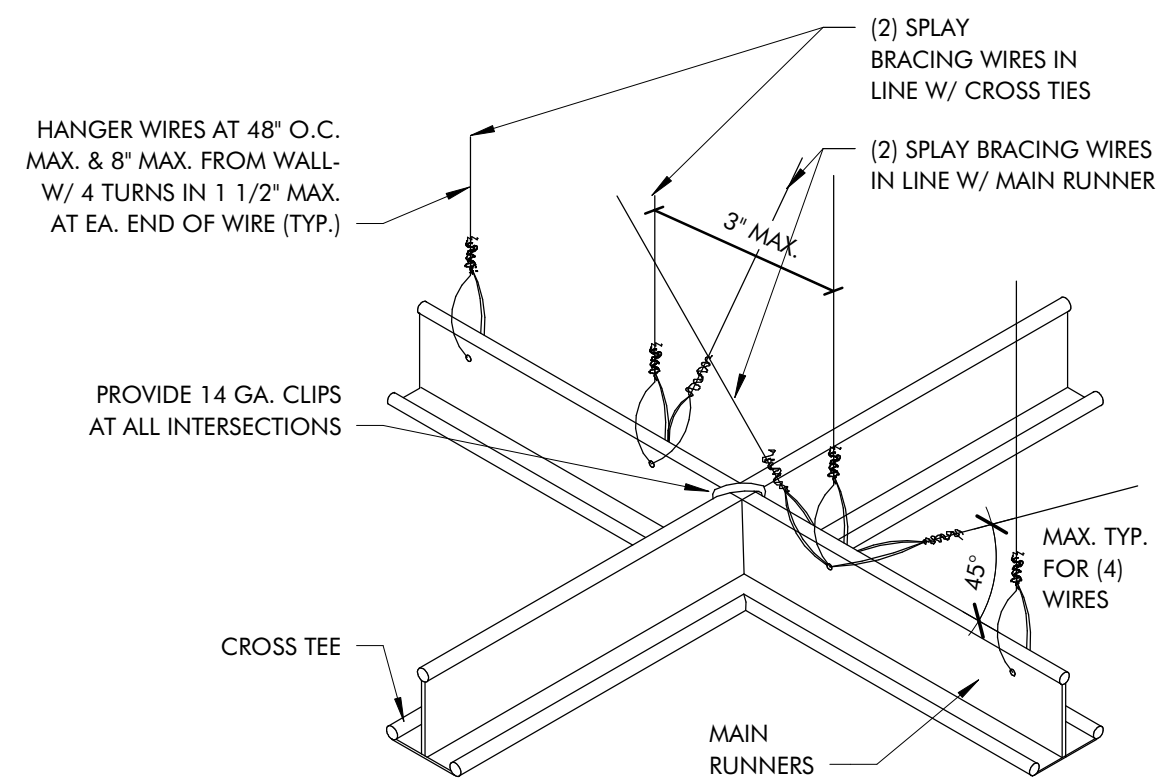


3 BAK-EQUIPMENT BACKING
1/2" = 1'-0"

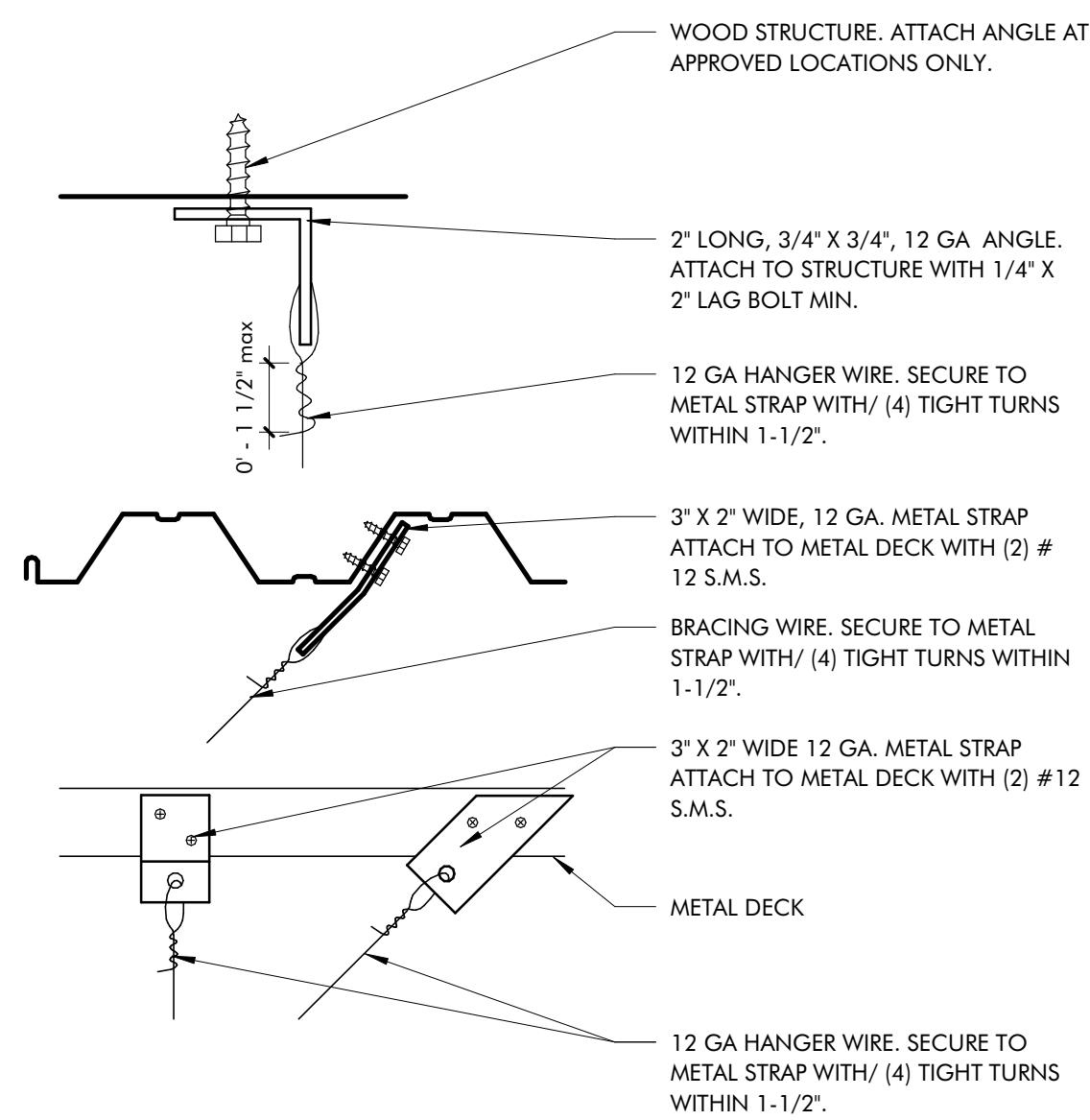


4 PTN-BASE ATTACHMENT
3" = 1'-0"

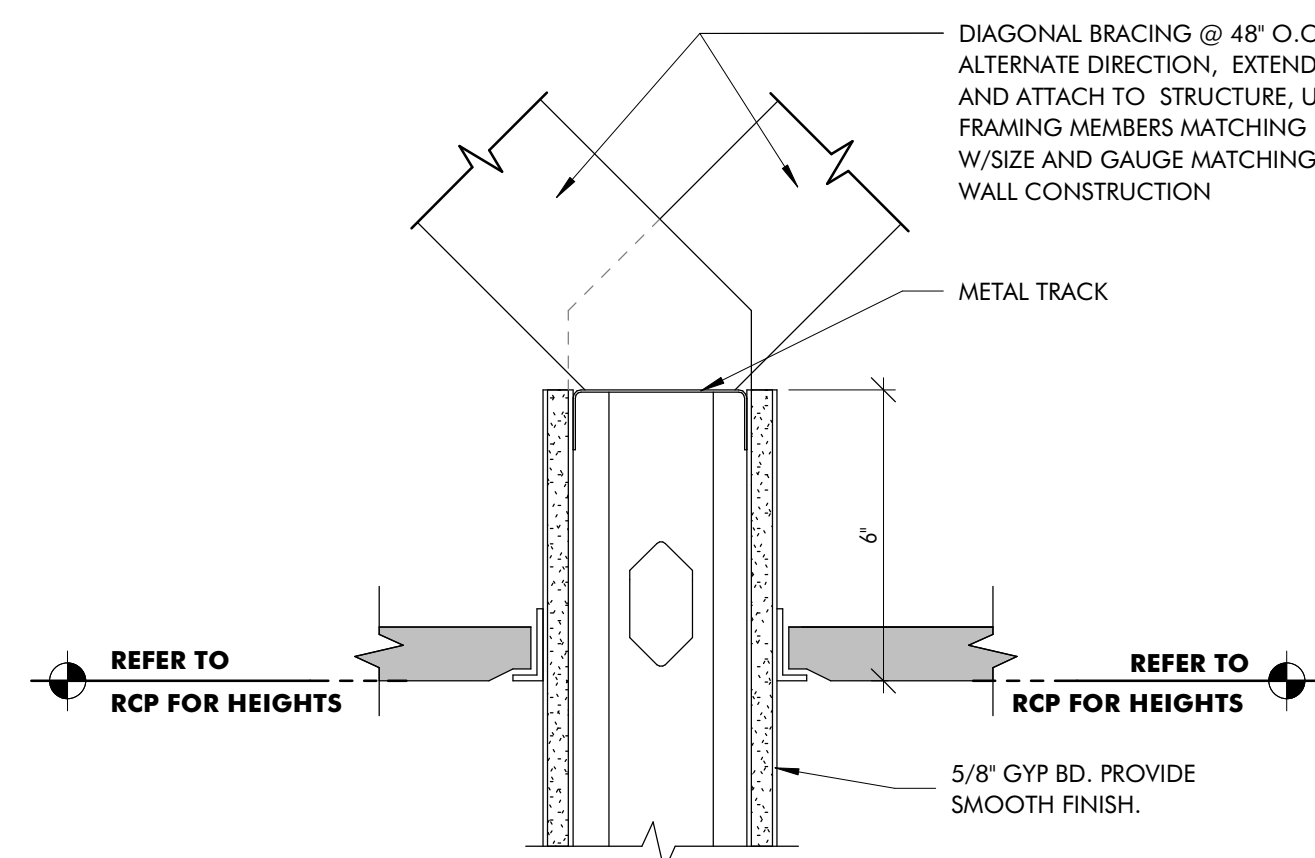
NOTE:
SLOPE WIRES AT 45° MAX. FROM HORIZONTAL
MAX AREA W/ OUT VERTICAL STRUT = 12X12' & 4'-0" MAX. FROM ANY WALL.



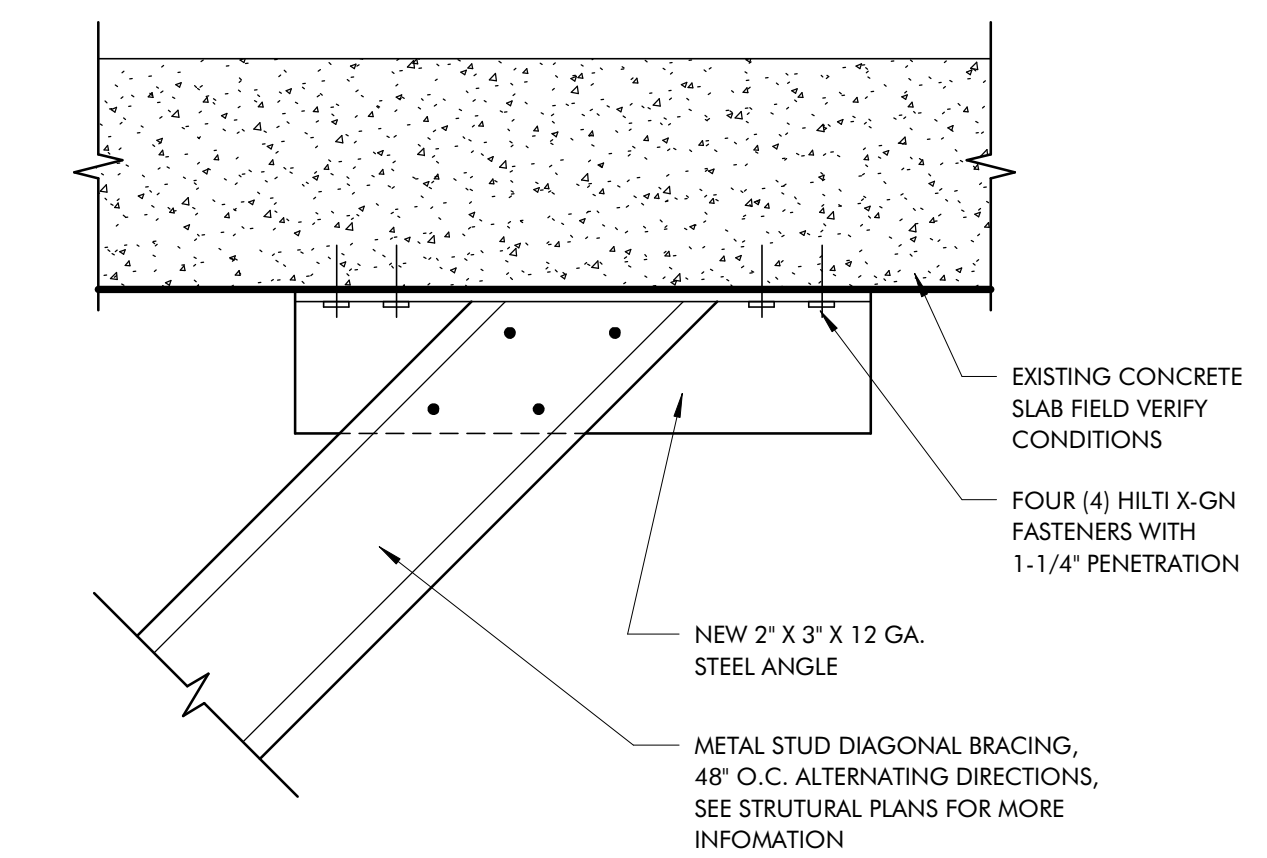
5 CLG-SUSPENDED CEILING SYSTEM - TYPICAL BRACING
N.T.S.



6 CLG-SUSPENDED CEILING SYSTEM - WIRE CONNECTIONS
3" = 1'-0"

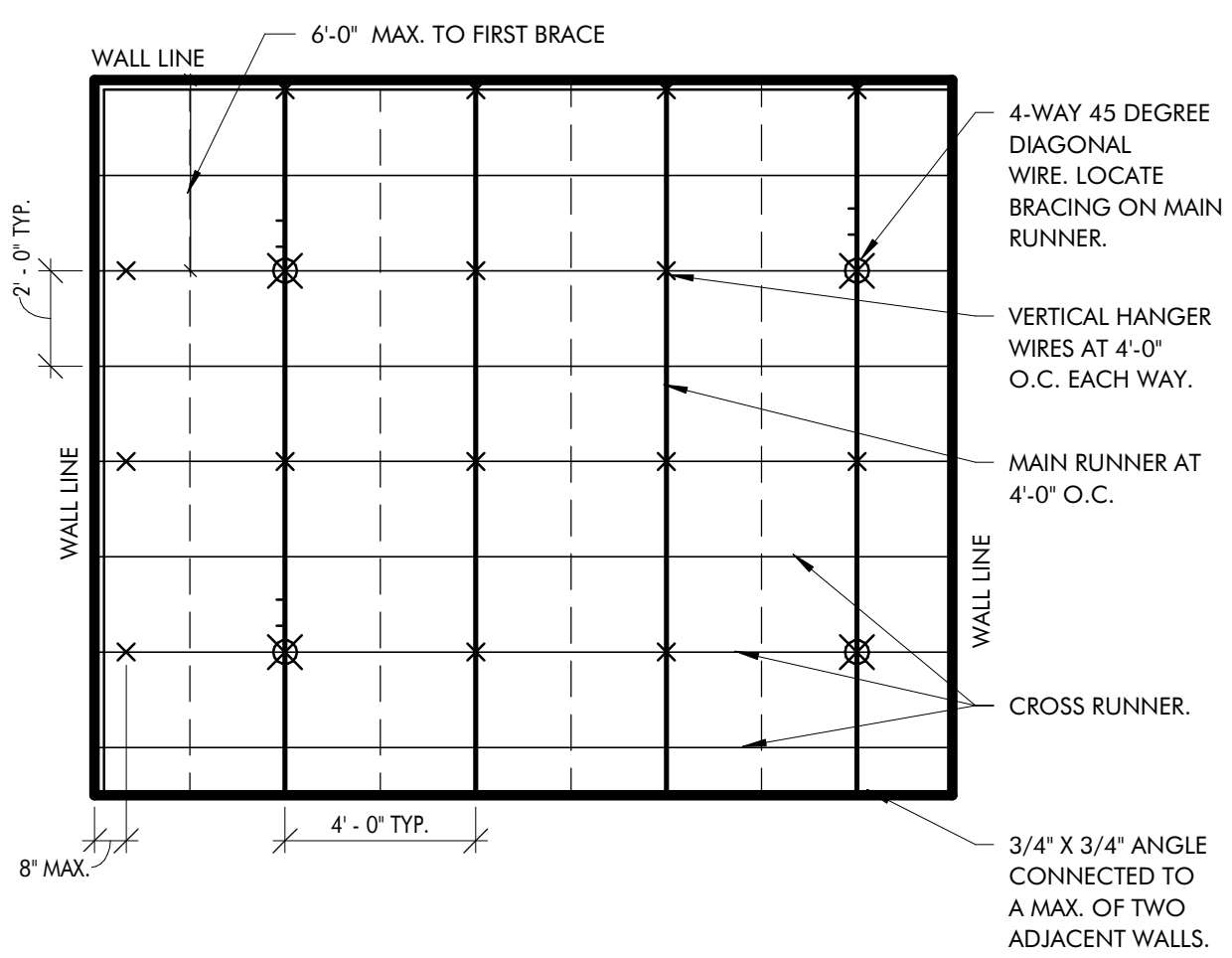


7 WALL TERM-TOP - 6" ABOVE CEILING
3" = 1'-0"

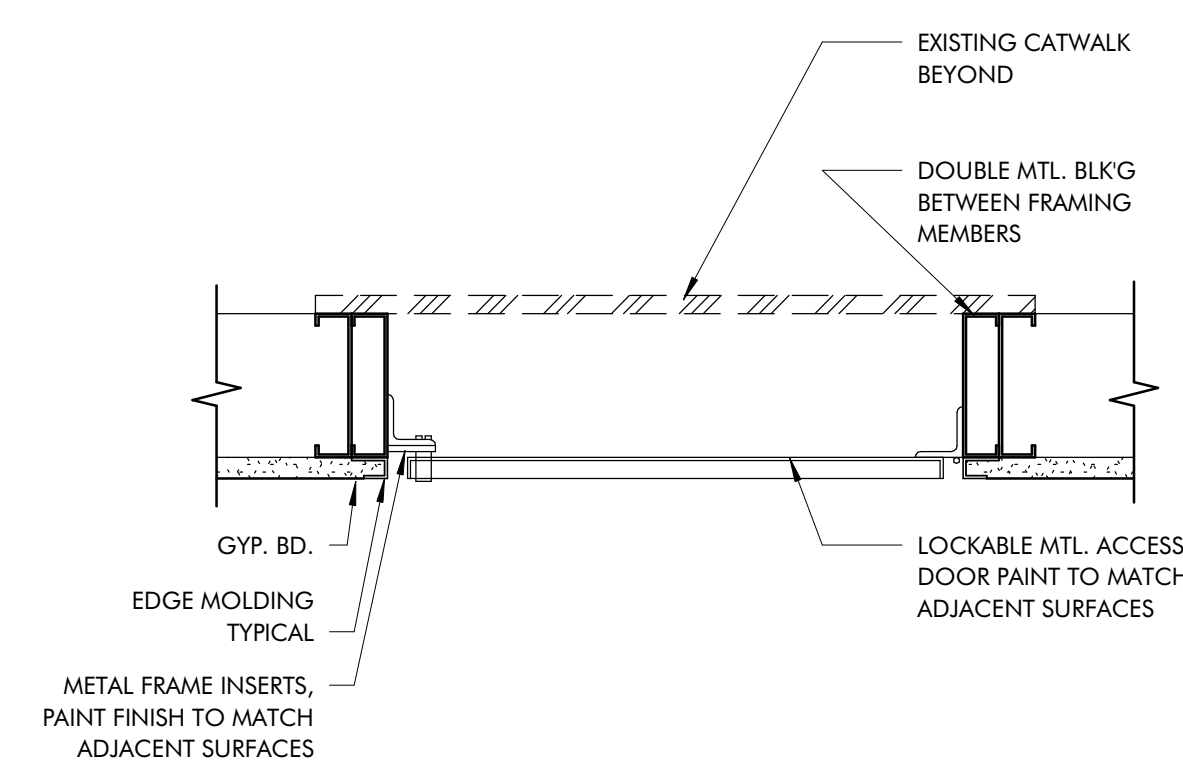


8 WALL TERM-TOP - DIAGONAL BRACING @ EXIST. CONC. DECK
3" = 1'-0"

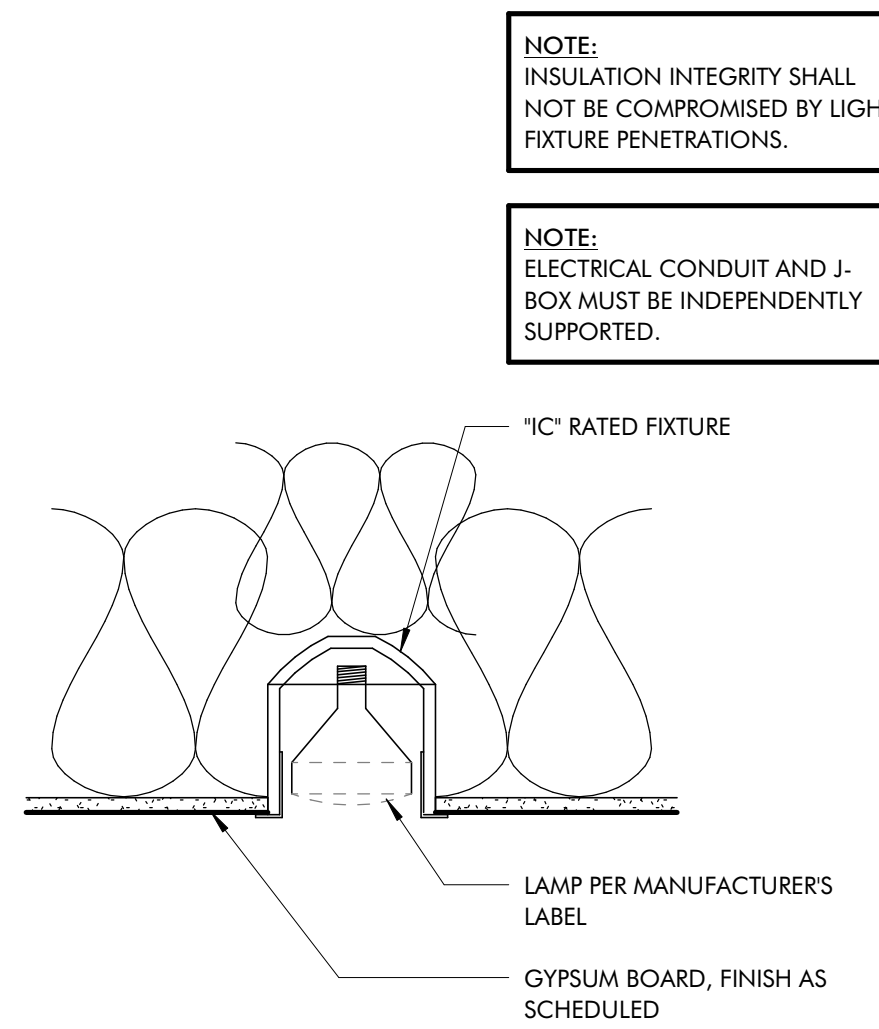
NOTE:
TYPICAL 2X4 LAY-IN ACOUSTIC TILE CEILING SHOWN SOLID. 2X2 SHOWN DASHED.



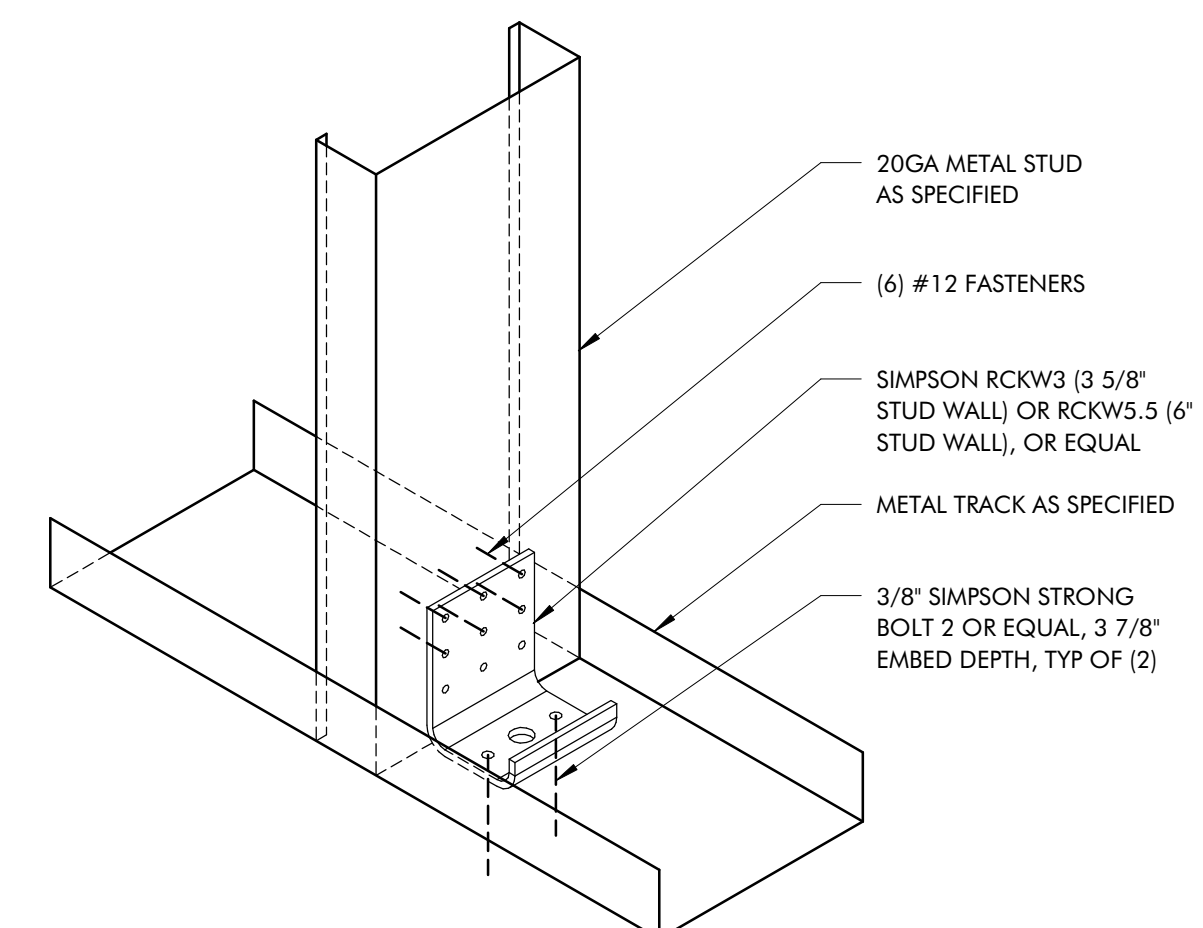
9 CLG-SUSPENDED CEILING SYSTEM - SCHEMATIC
1/4" = 1'-0"



10 DOOR-ACCESS PANEL - HORIZONTAL
1 1/2" = 1'-0"



11 CLG-SUSPENDED CEILING SYSTEM - RECESSED CAN INSTALL W/INSULATION
1 1/2" = 1'-0"



12 WALL TERM-BOTTOM - DIEWALL REINFORCEMENT
3" = 1'-0"

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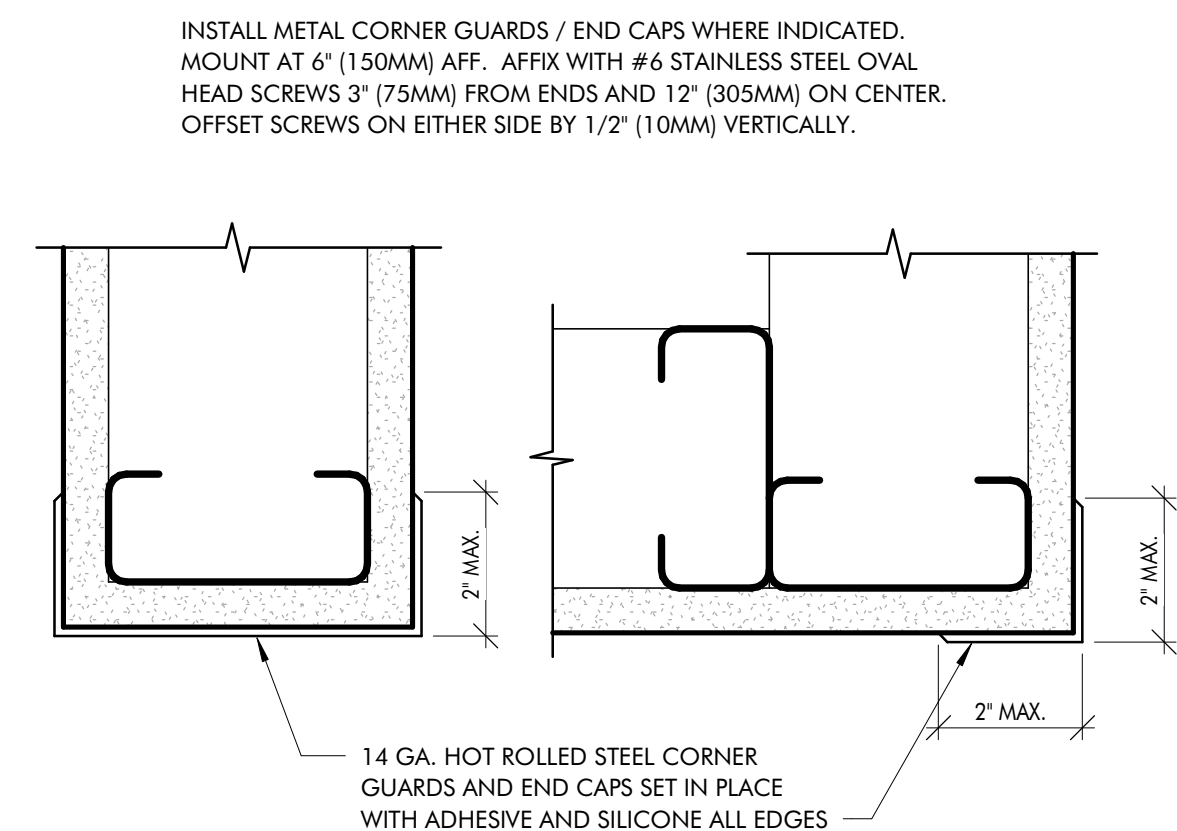
15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

05.18.2022 PERMIT SET

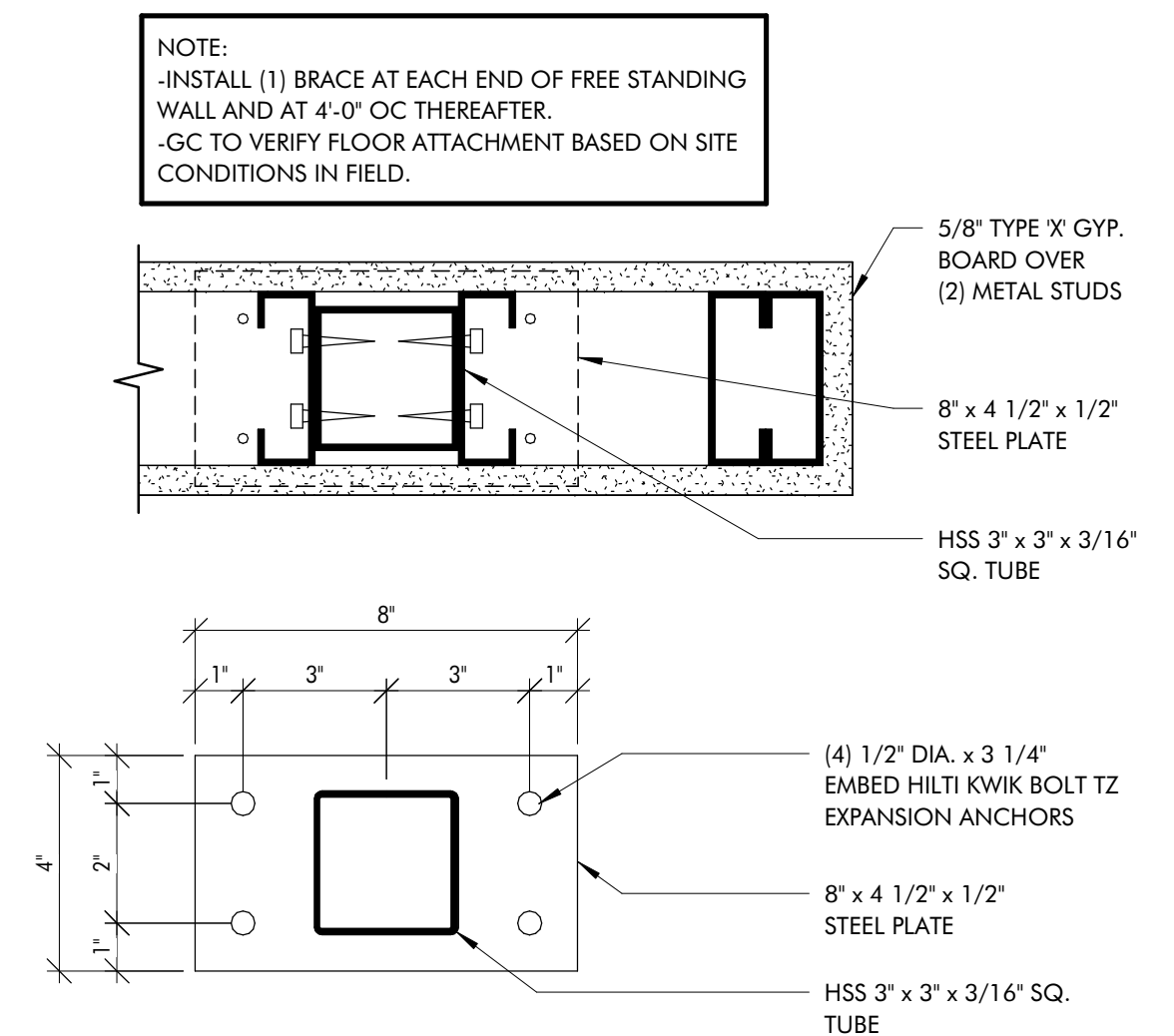
ARCHITECTURAL
DETAILS

A6.0
BN1580

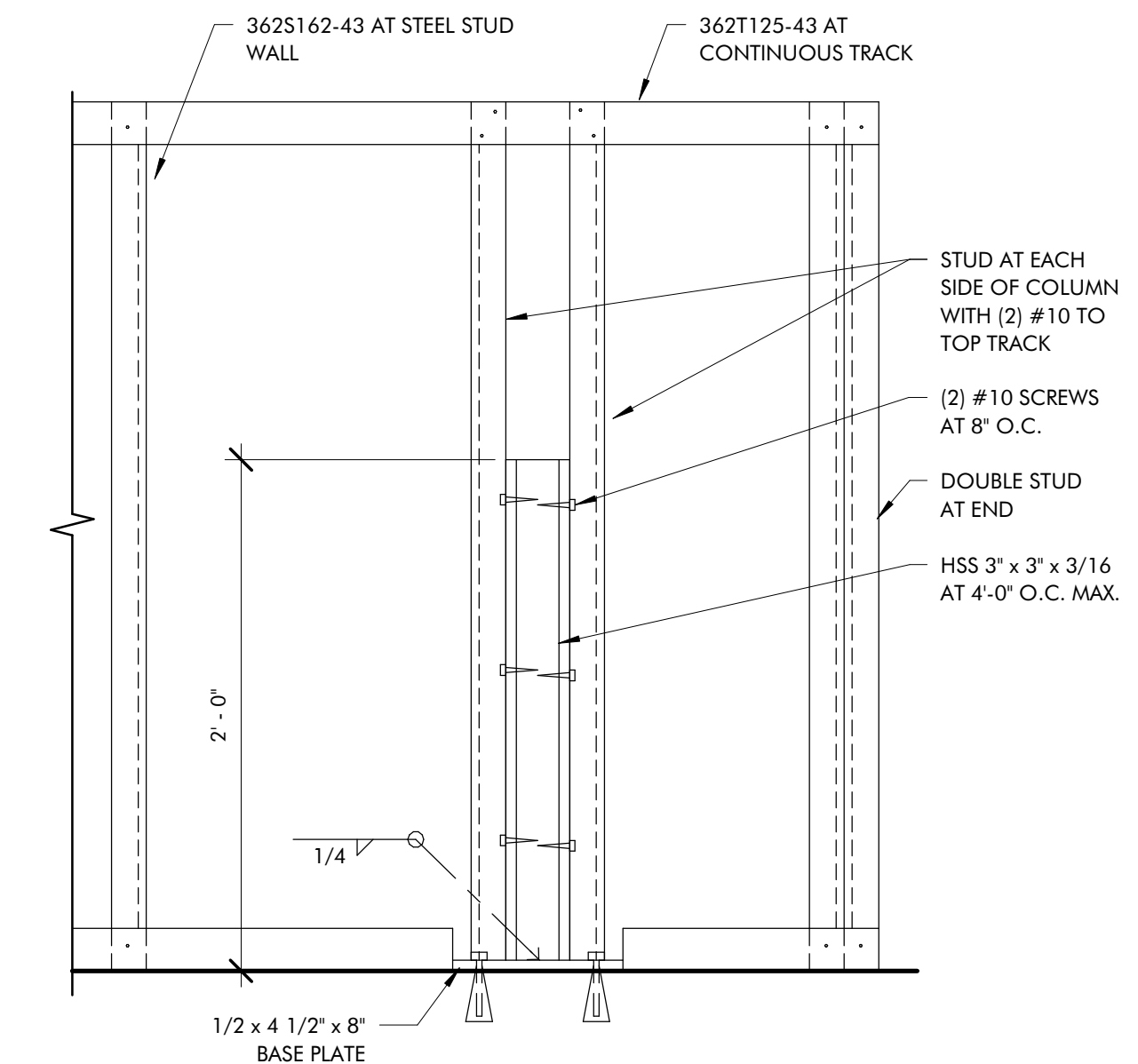
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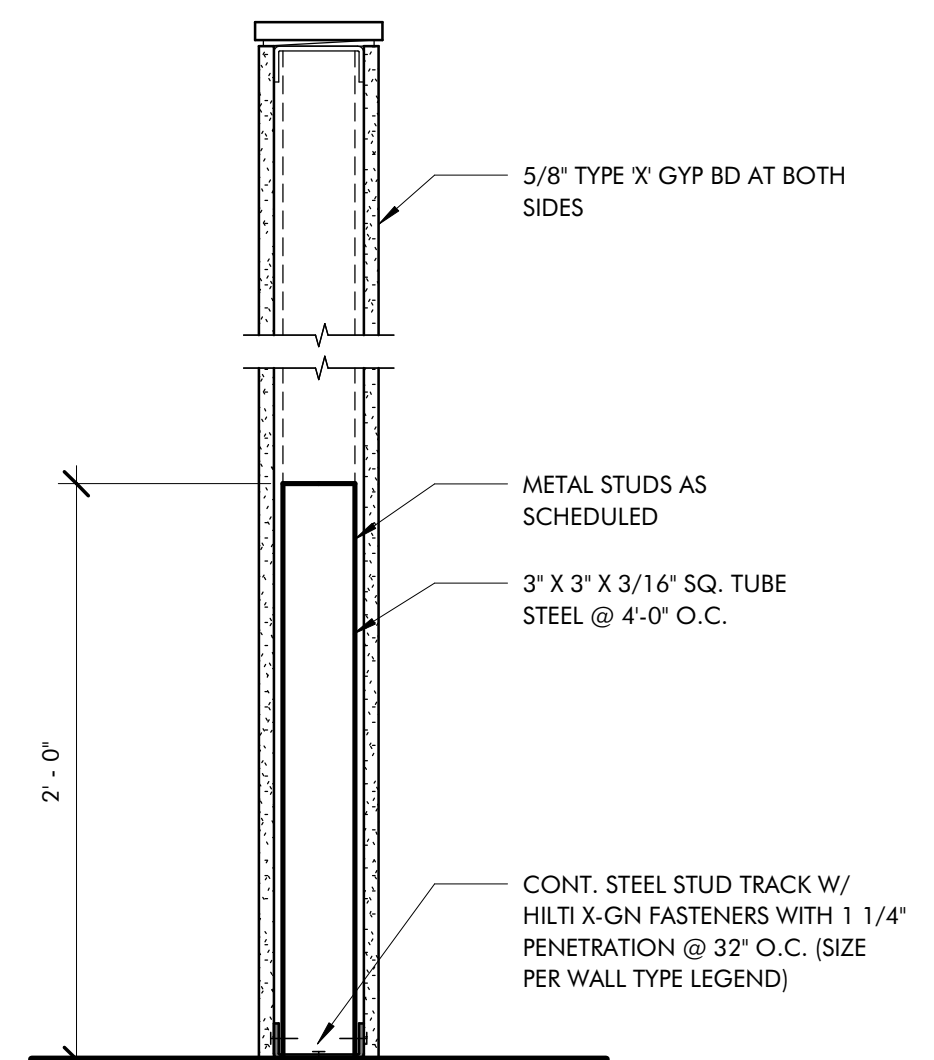
1 CORNER GUARD-STAINLESS STEEL
1 1/2" = 1'-0"



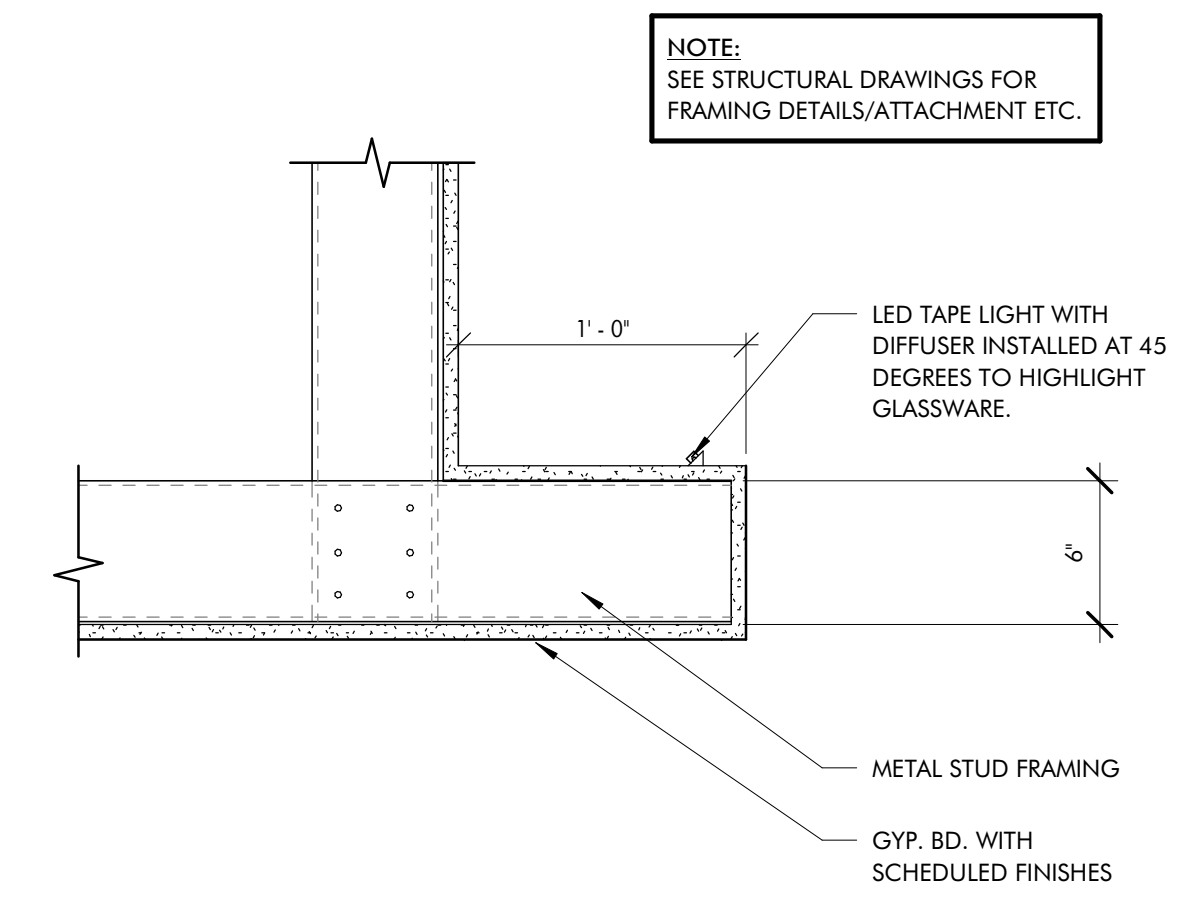
2 PTN - LOW WALL BRACE - PLAN
3" = 1'-0"



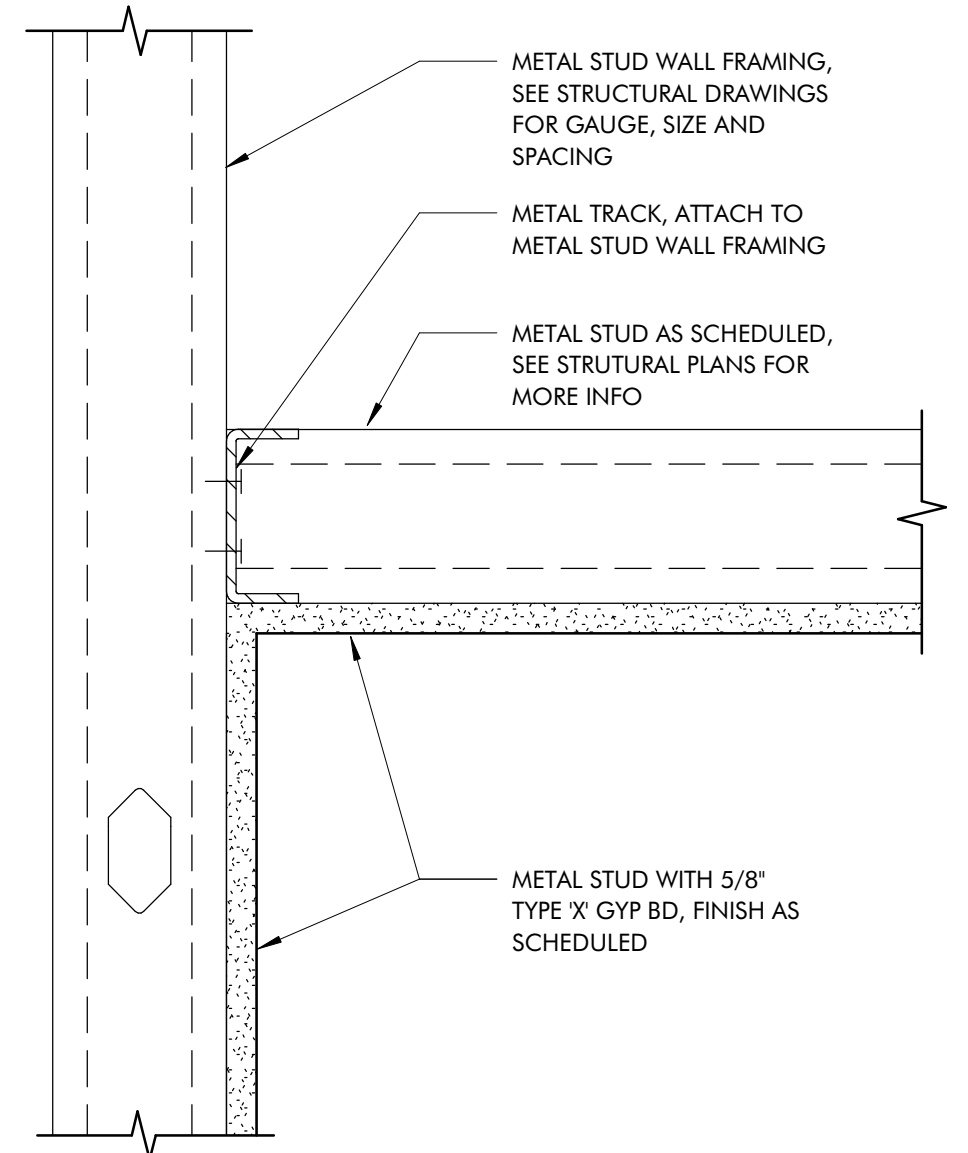
3 PTN - LOW WALL BRACE - ELEVATION
1 1/2" = 1'-0"



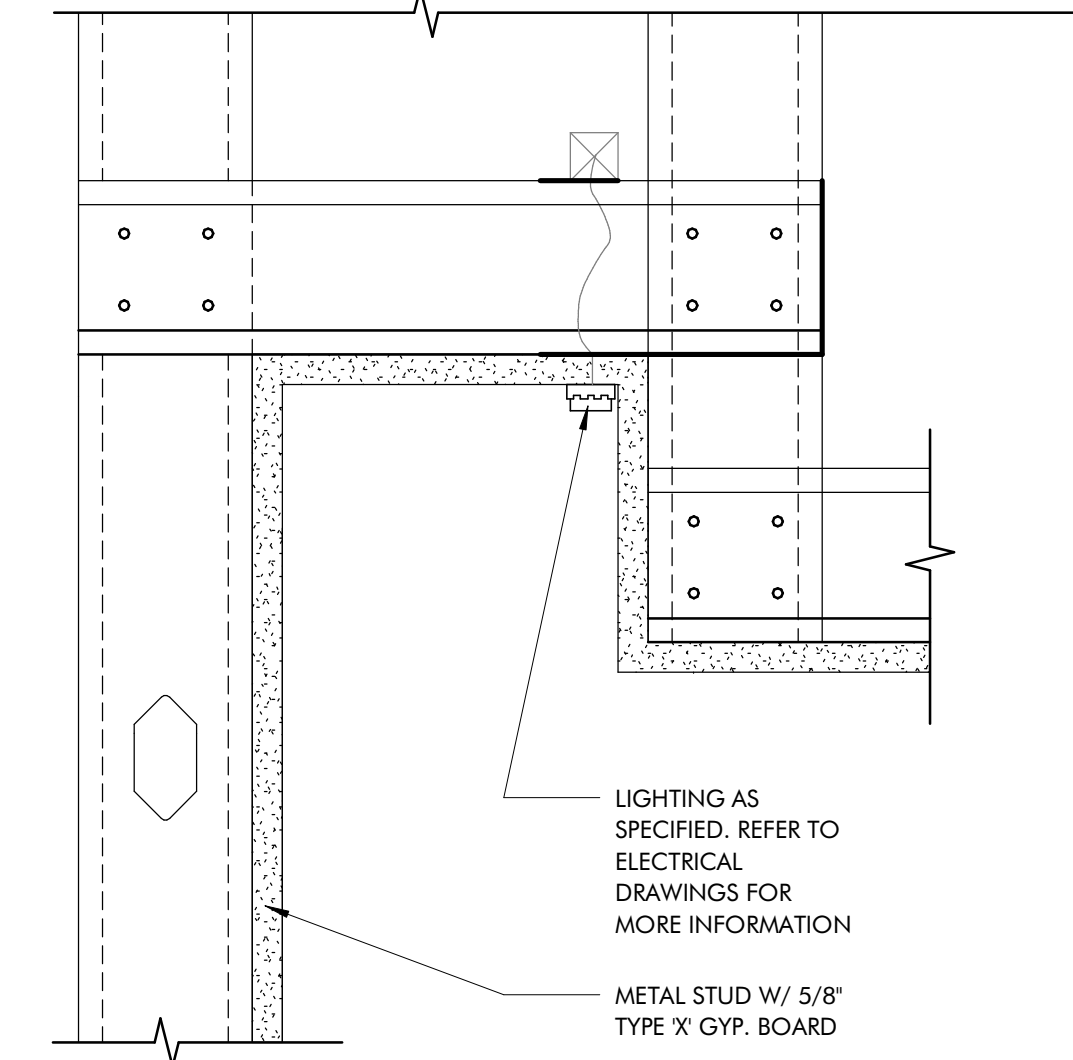
4 PTN - LOW WALL
1 1/2" = 1'-0"



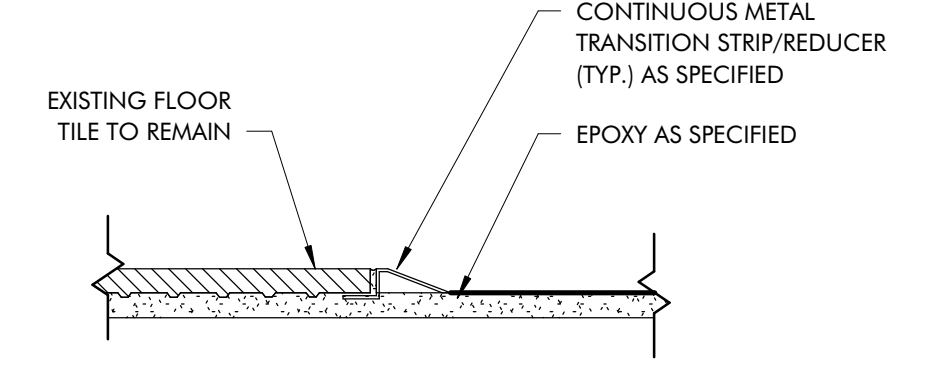
5 CLG-DROPPED SOFFIT W/LIGHT COVE
1 1/2" = 1'-0"



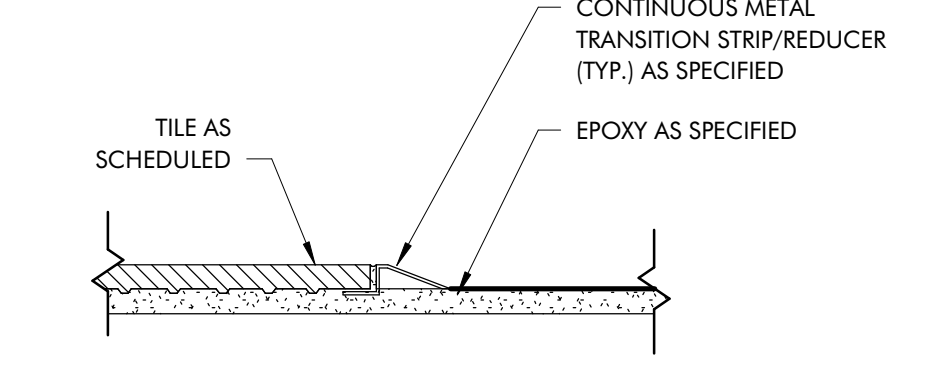
6 CLG-FRAMED GYP. CEILING TO WALL
3" = 1'-0"



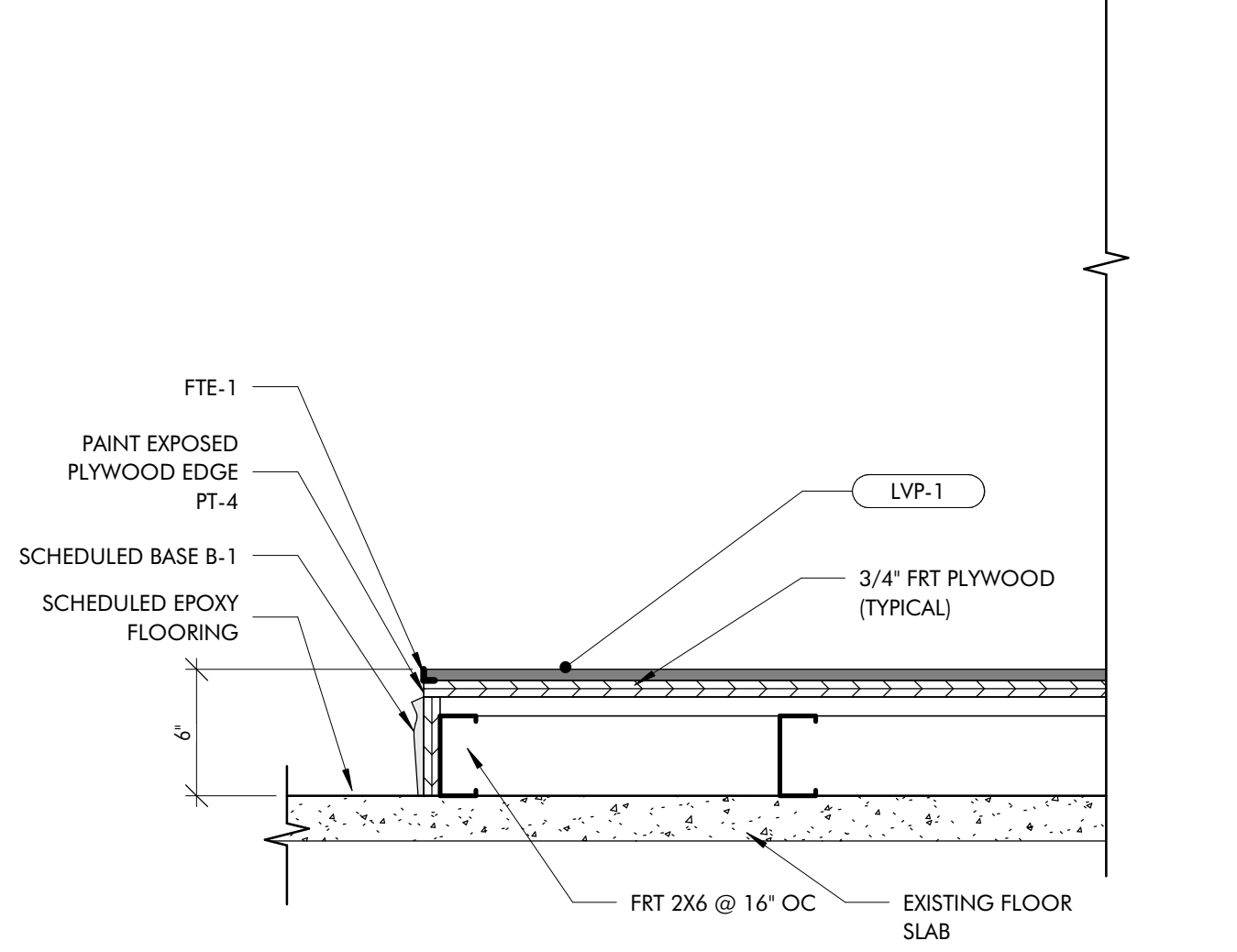
7 CLG-LIGHT COVE AT BULKHEAD
3" = 1'-0"



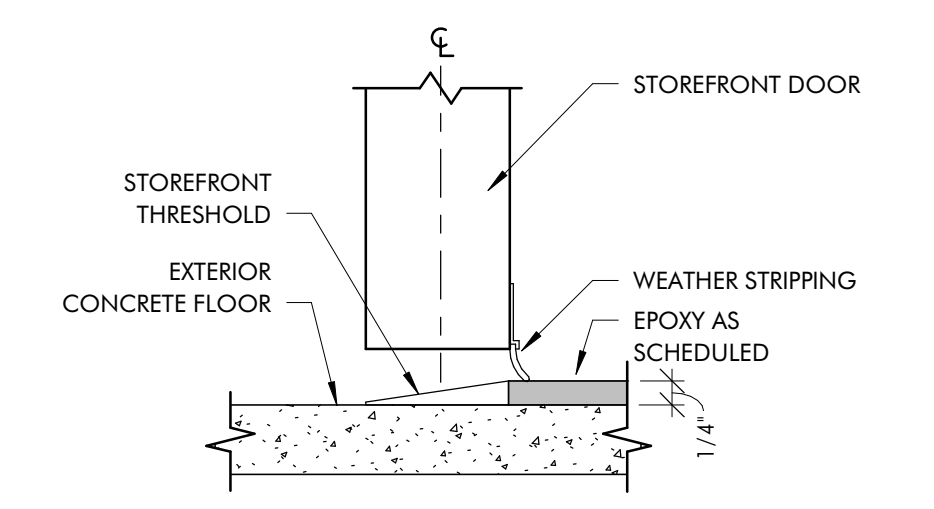
8 TRANS-EXISTING TO EPOXY
6" = 1'-0"



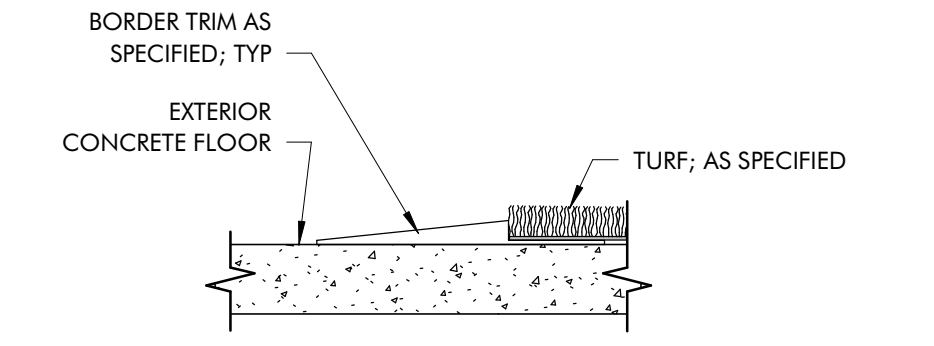
9 TRANS-TILE TO EPOXY
6" = 1'-0"



12 SECTION AT BOOTH AND DINING PLATFORM
1 1/2" = 1'-0"



10 TRANS-CONCRETE TO EPOXY
6" = 1'-0"

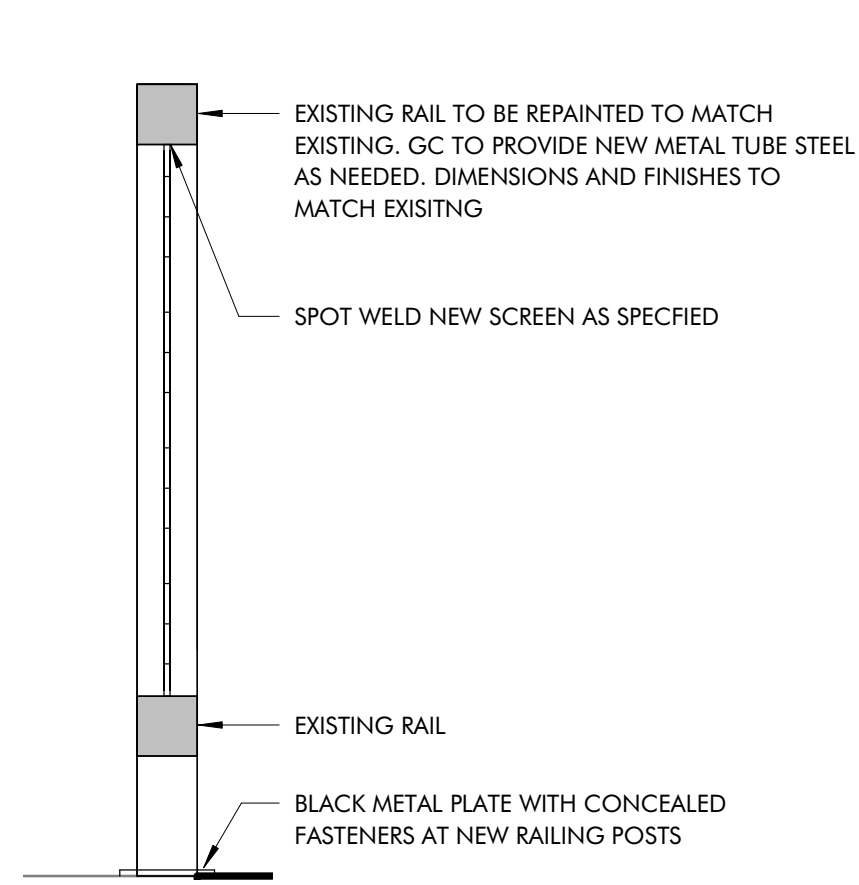


11 TRANS-TURF TO CONCRETE
6" = 1'-0"

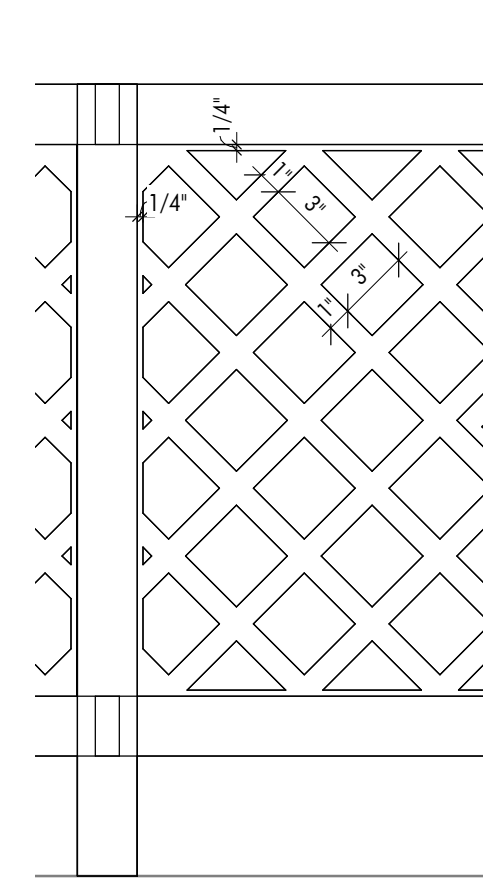
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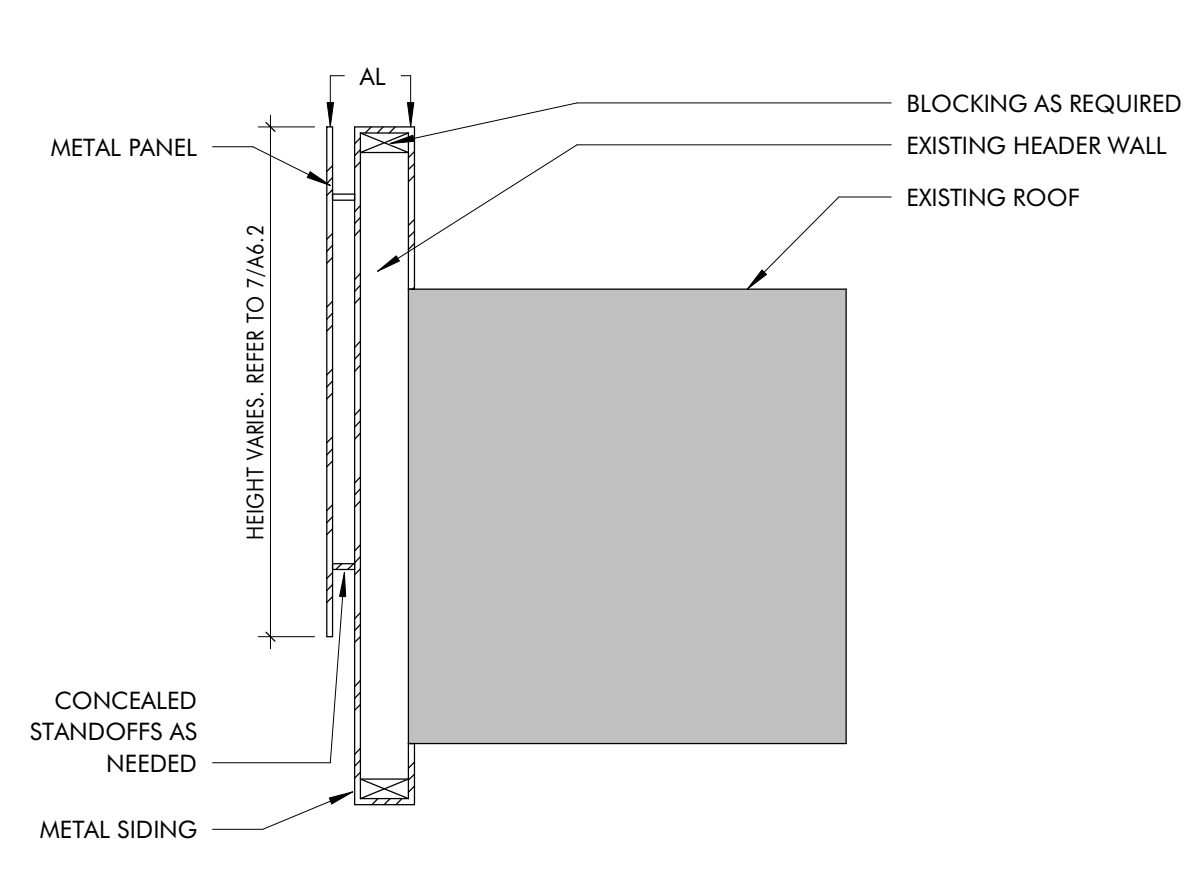
BN1580 JOJO'S SHAKE BAR
15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ
05.18.2022 PERMIT SET



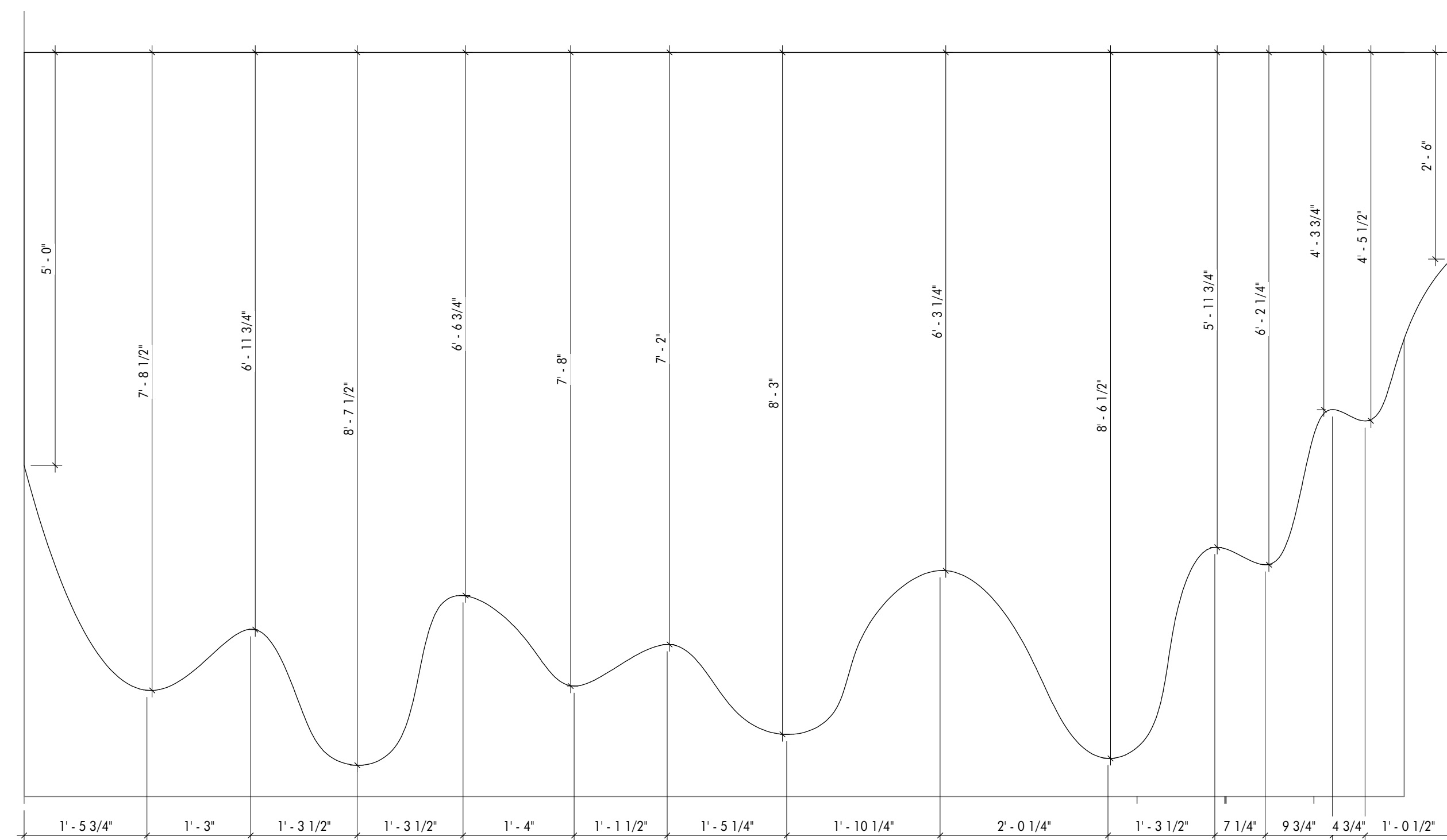
① SECTION - EXTERIOR RAILING
1 1/2" = 1'-0"



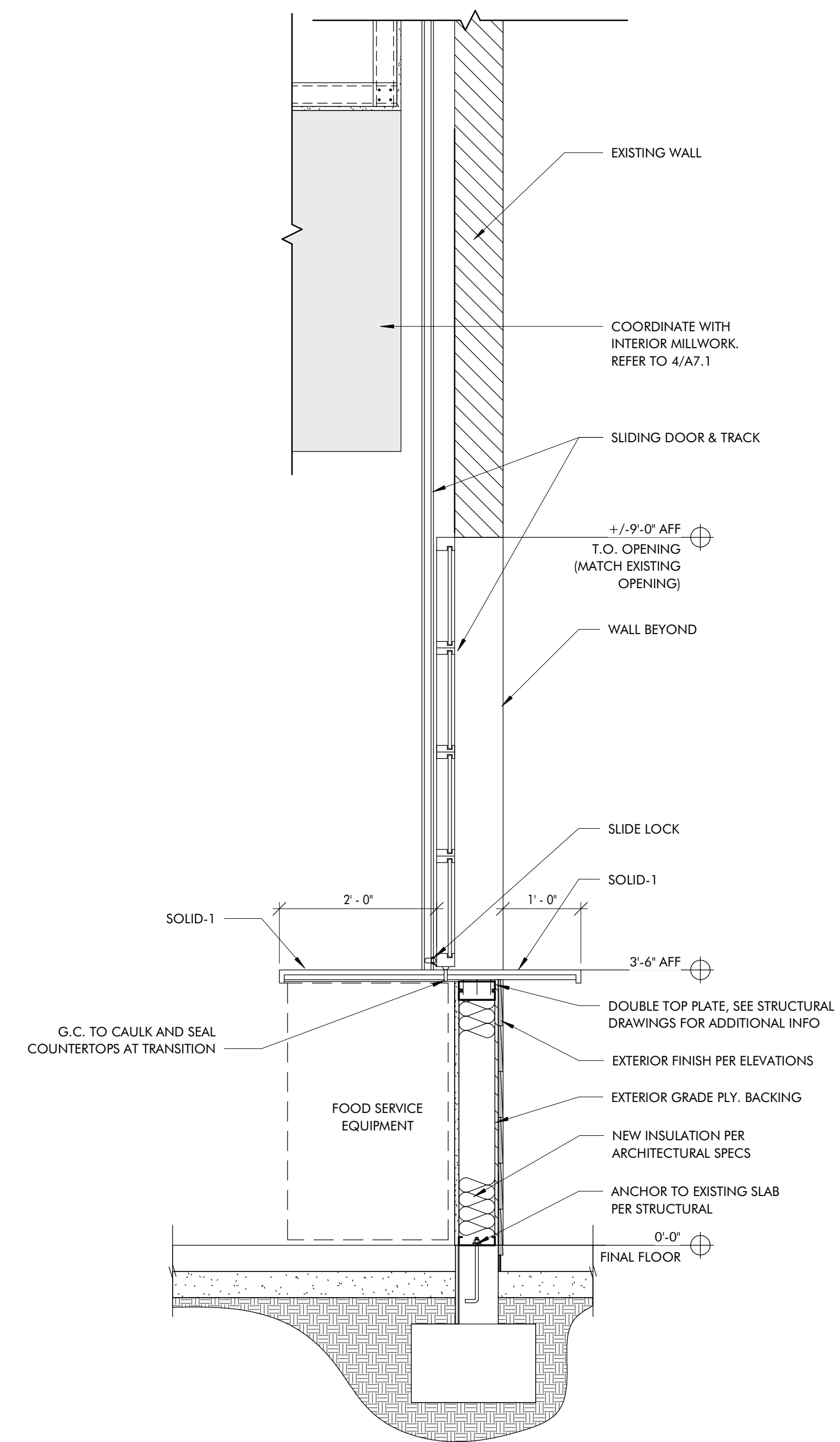
② RAILING - METAL SCREEN
1 1/2" = 1'-0"



③ METAL PANEL
1 1/2" = 1'-0"



④ METAL DRIP PANEL DIMENSIONS
3/4" = 1'-0"



⑤ DOOR-STOREFRONT SECTION - ROLL DOWN GRILLE (ALUMITEC AT-9)
3/4" = 1'-0"

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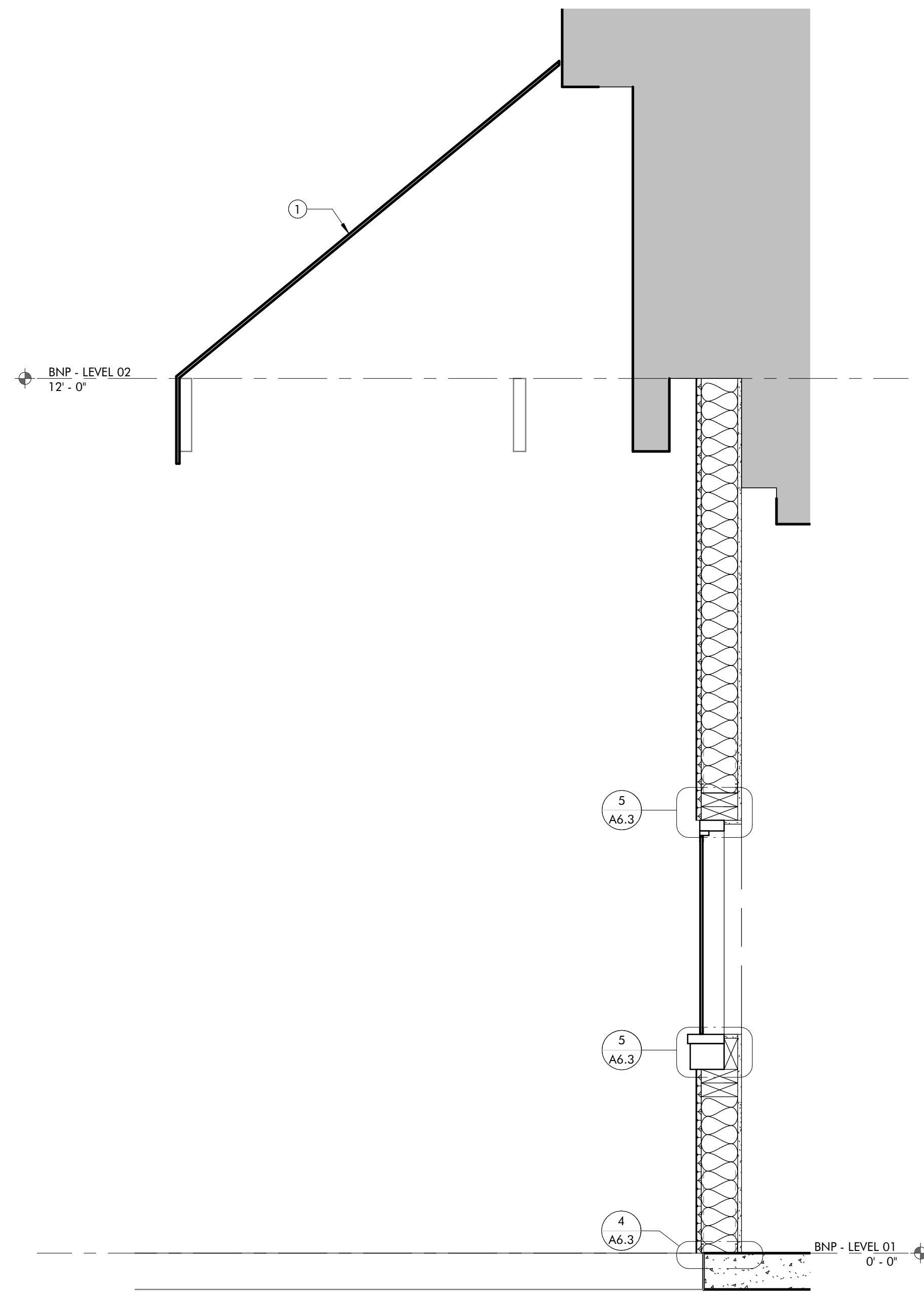
15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

05.18.2022 PERMIT SET

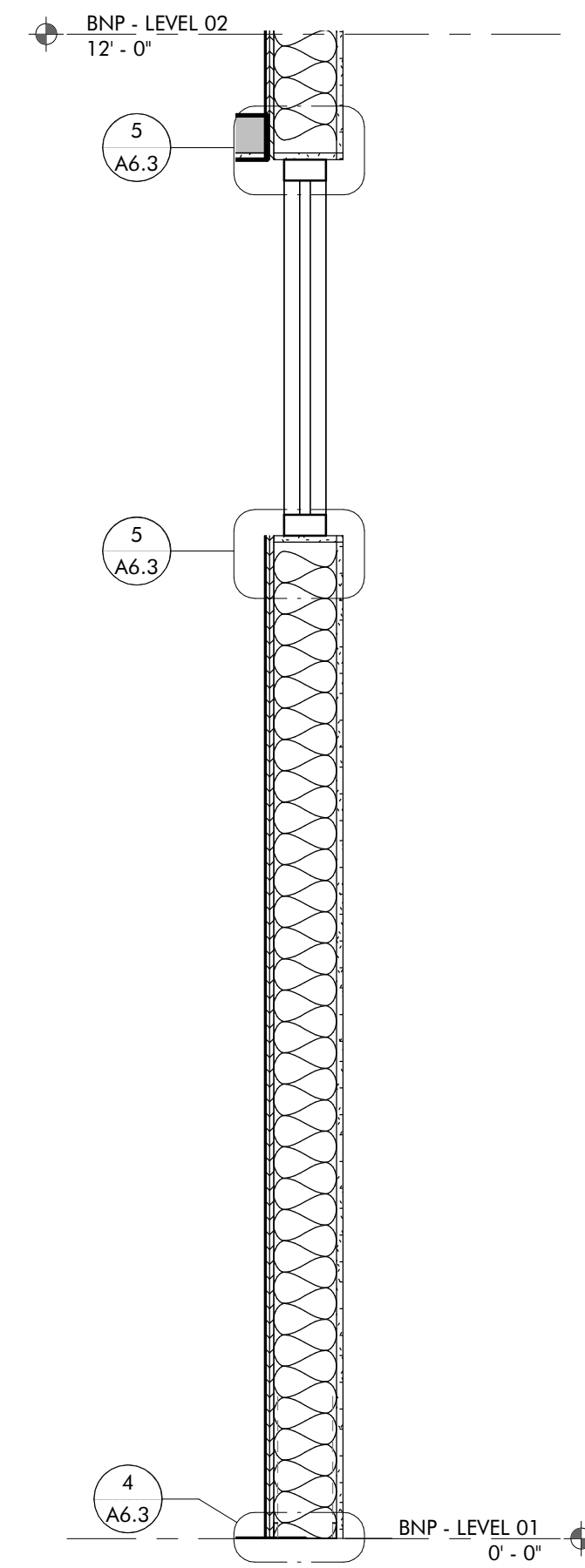
ARCHITECTURAL
DETAILS

A6.2
BN1580

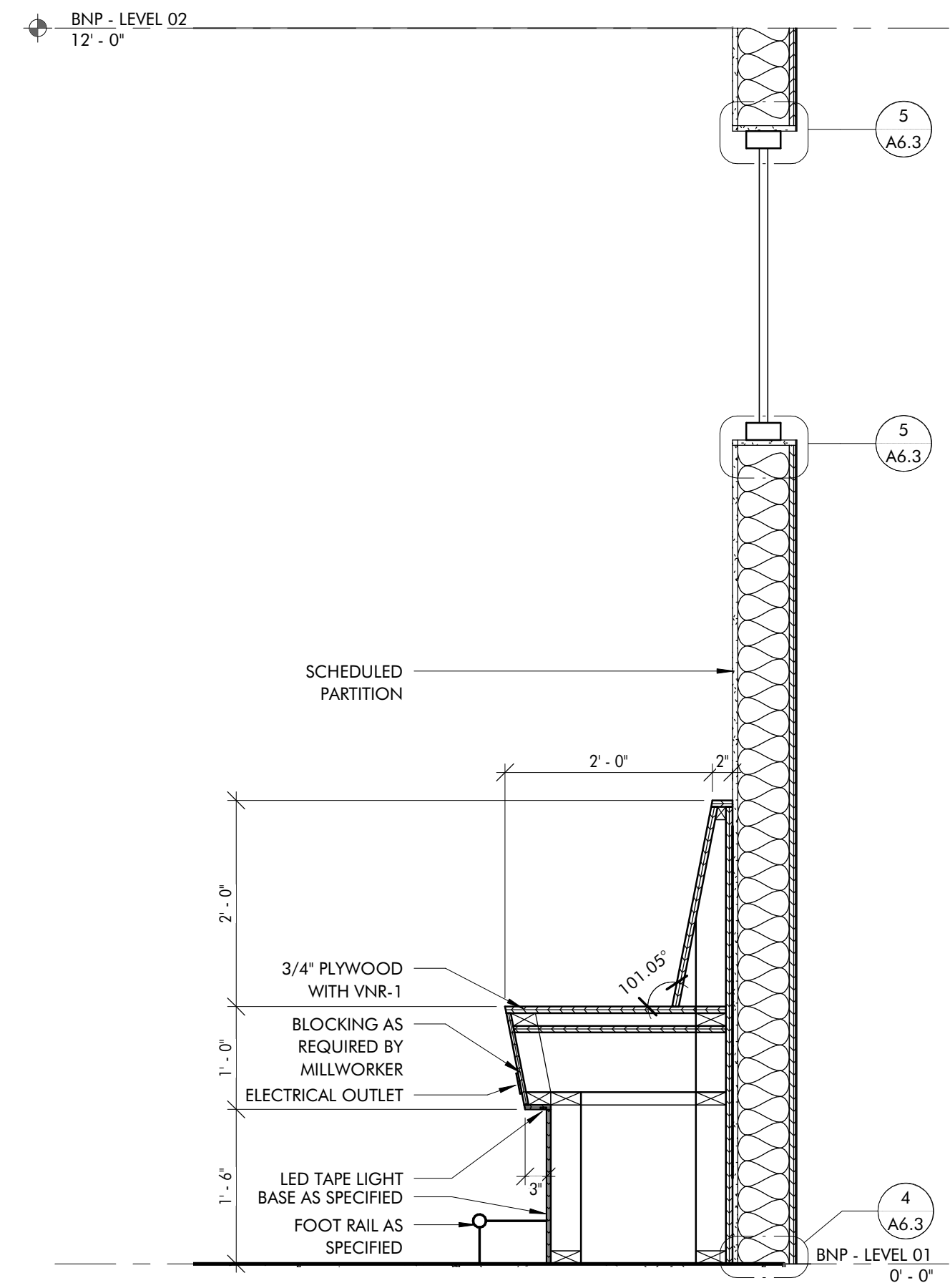
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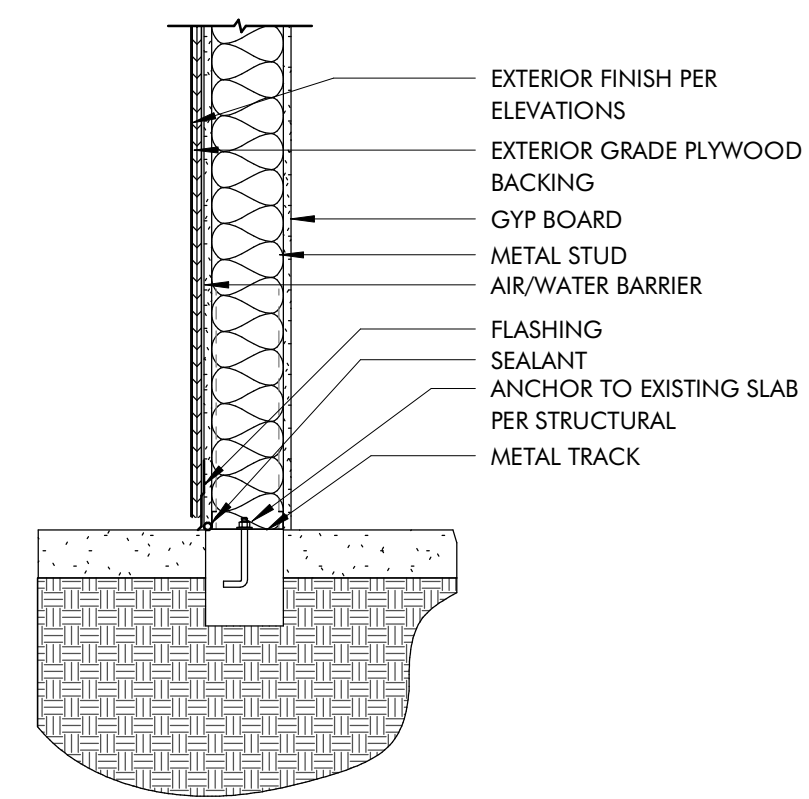
1 WALL SECTION @ PICK UP WINDOW
3/4" = 1'-0"



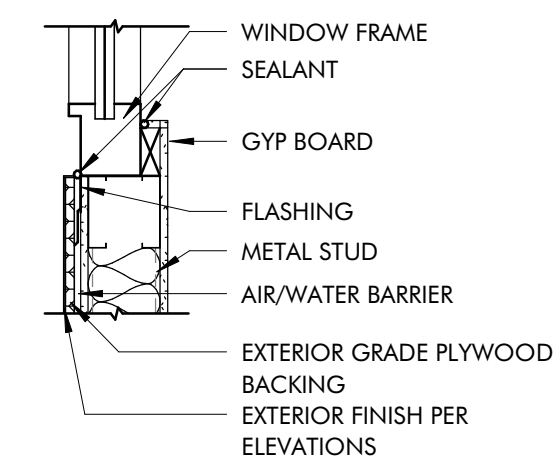
2 WALL SECTION @ ENTRY WALL
3/4" = 1'-0"



3 WALL SECTION @ BAR HEIGHT BANQUETTE
3/4" = 1'-0"



4 PTN - EXTERIOR BASE
3/4" = 1'-0"



5 SILL/HEADER - WINDOW DETAIL
3/4" = 1'-0"

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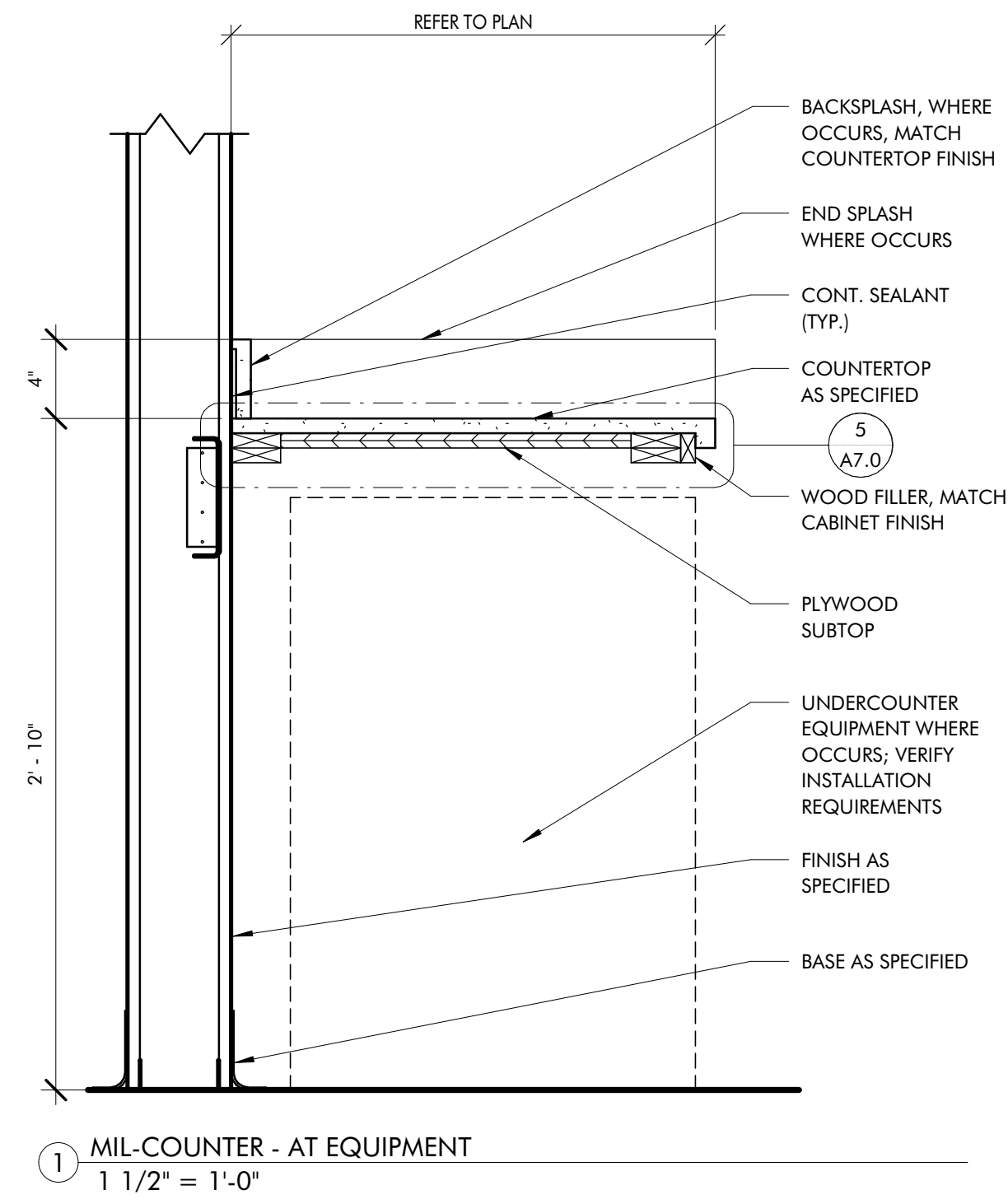
BN1580 JOJO'S SHAKE BAR
15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

05.18.2022 PERMIT SET

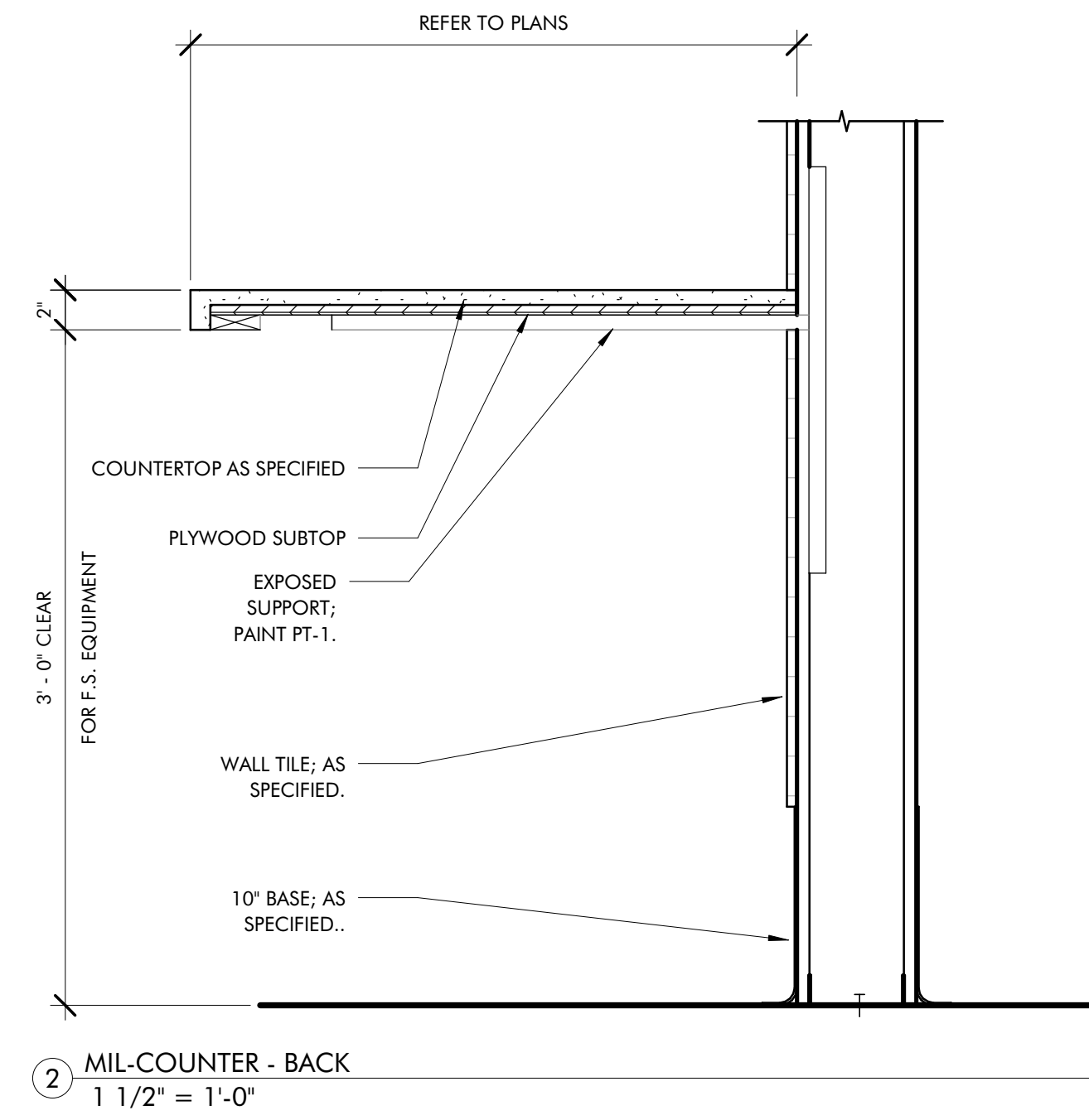
EXTERIOR WALL
SECTIONS

A6.3
BN1580

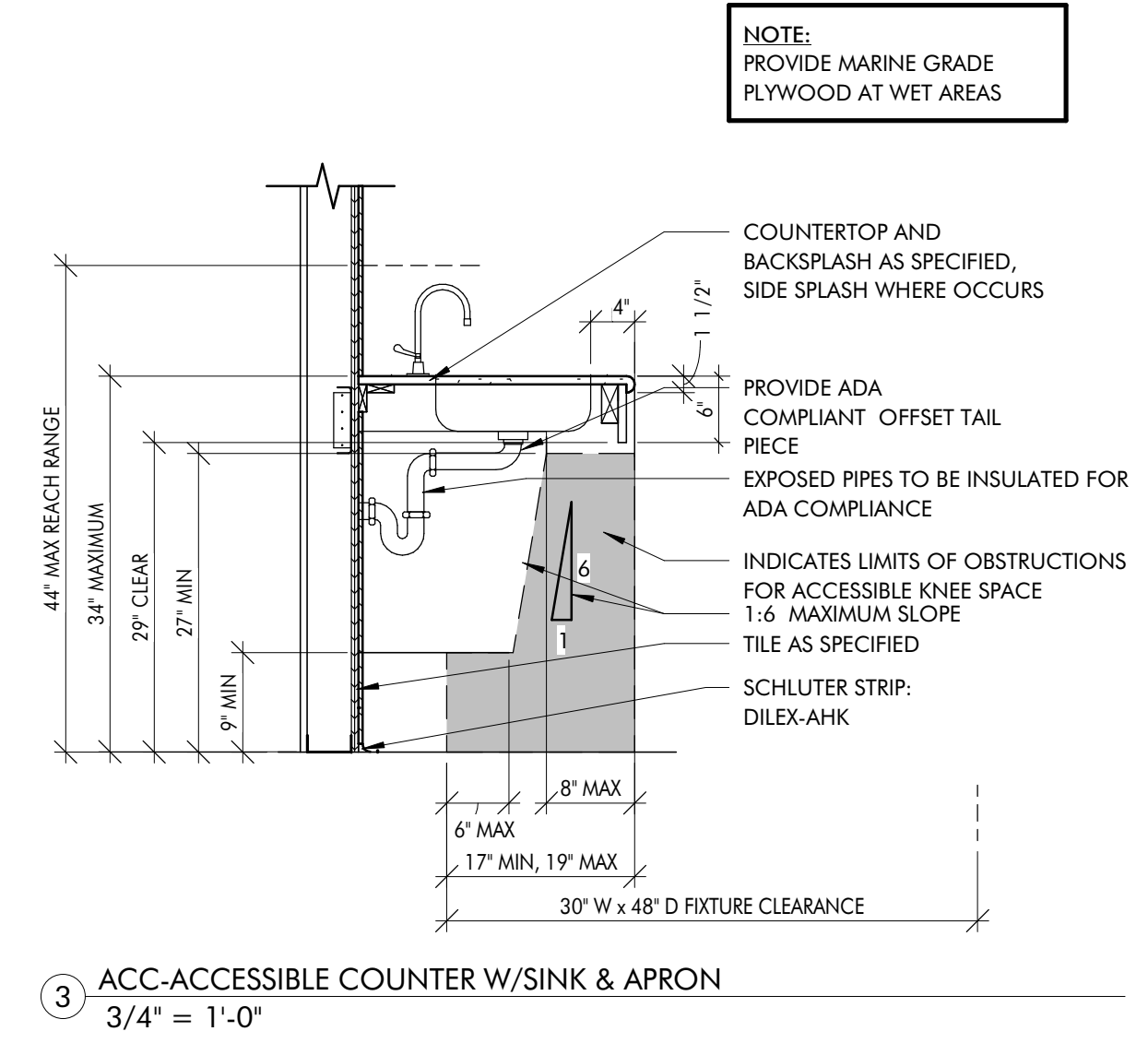
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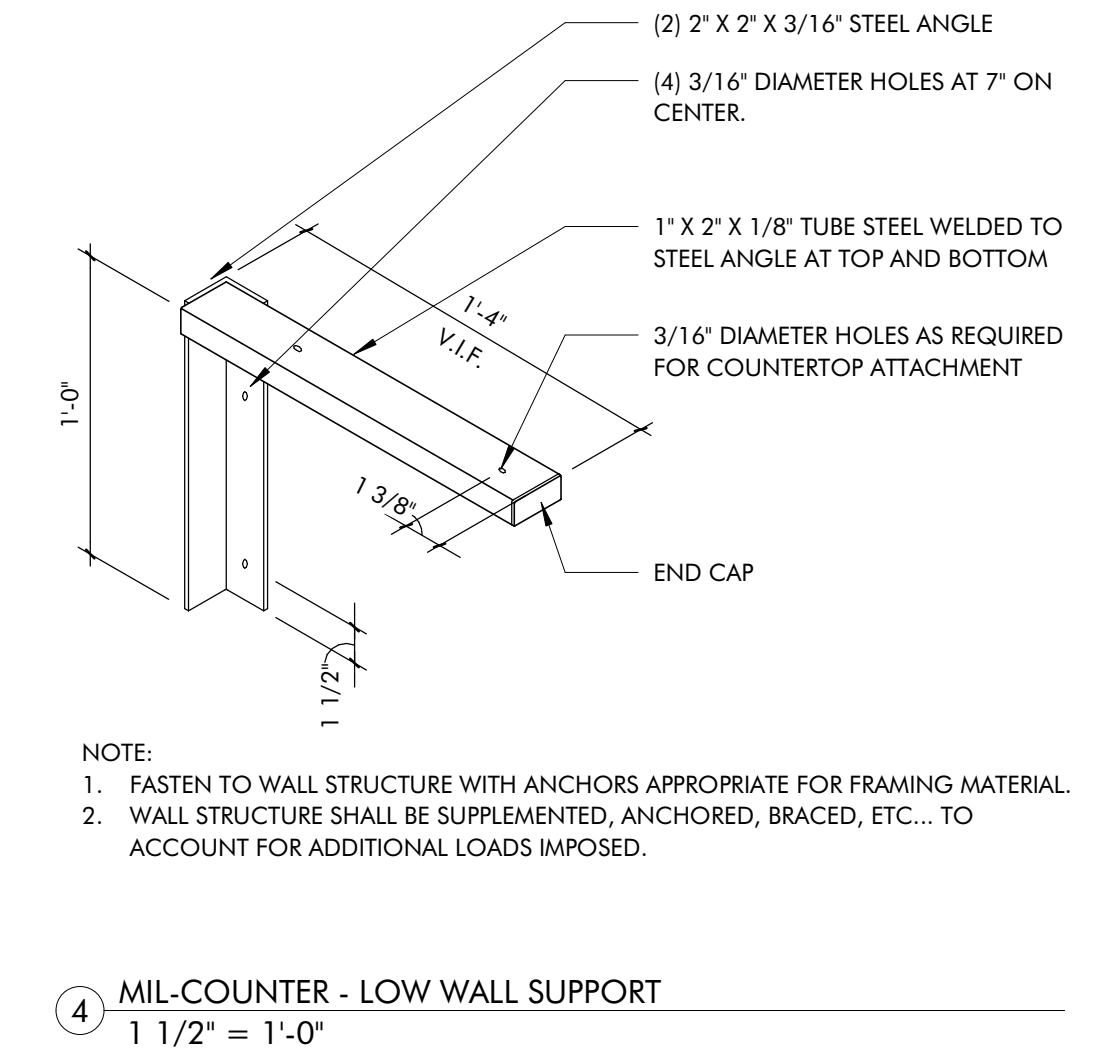
1 MIL-COUNTER - AT EQUIPMENT
1 1/2" = 1'-0"



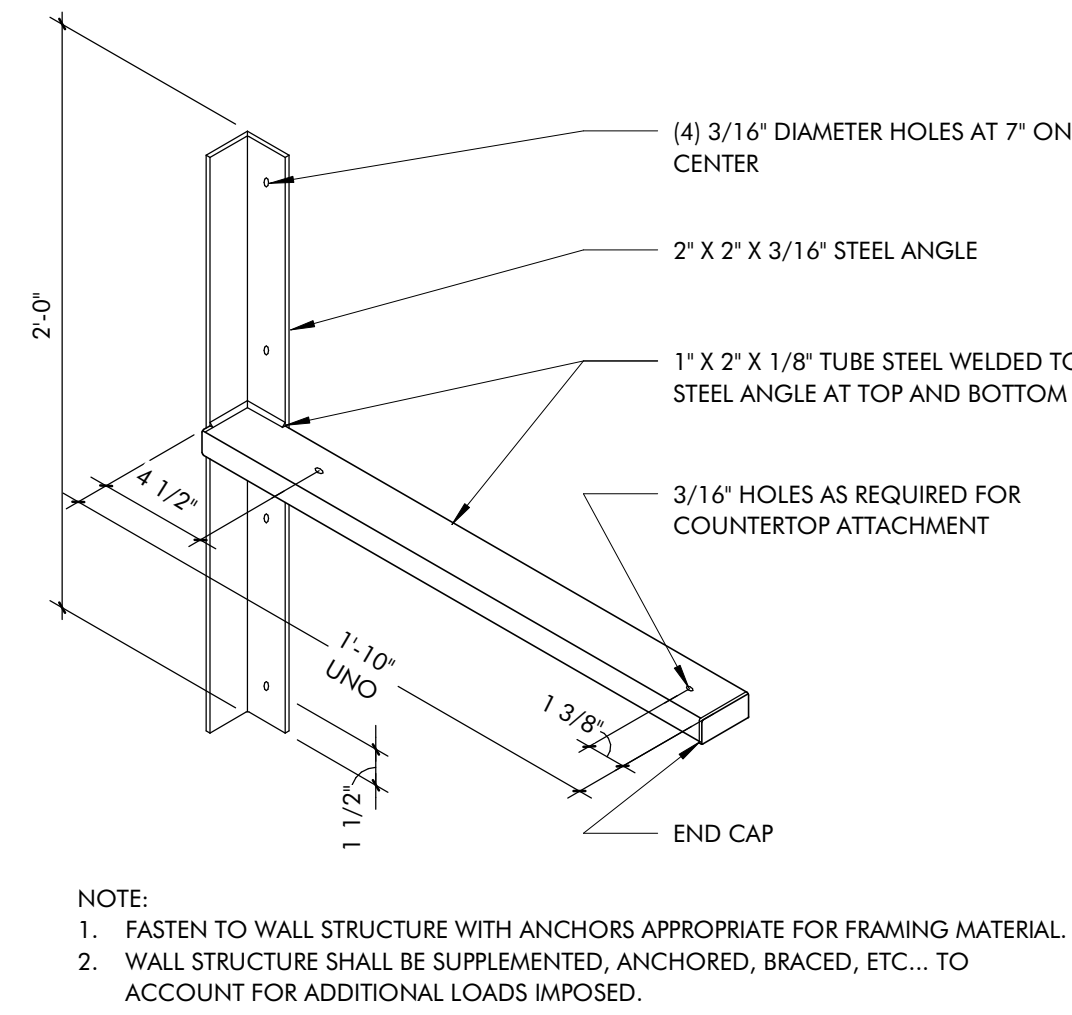
2 MIL-COUNTER - BACK
1 1/2" = 1'-0"



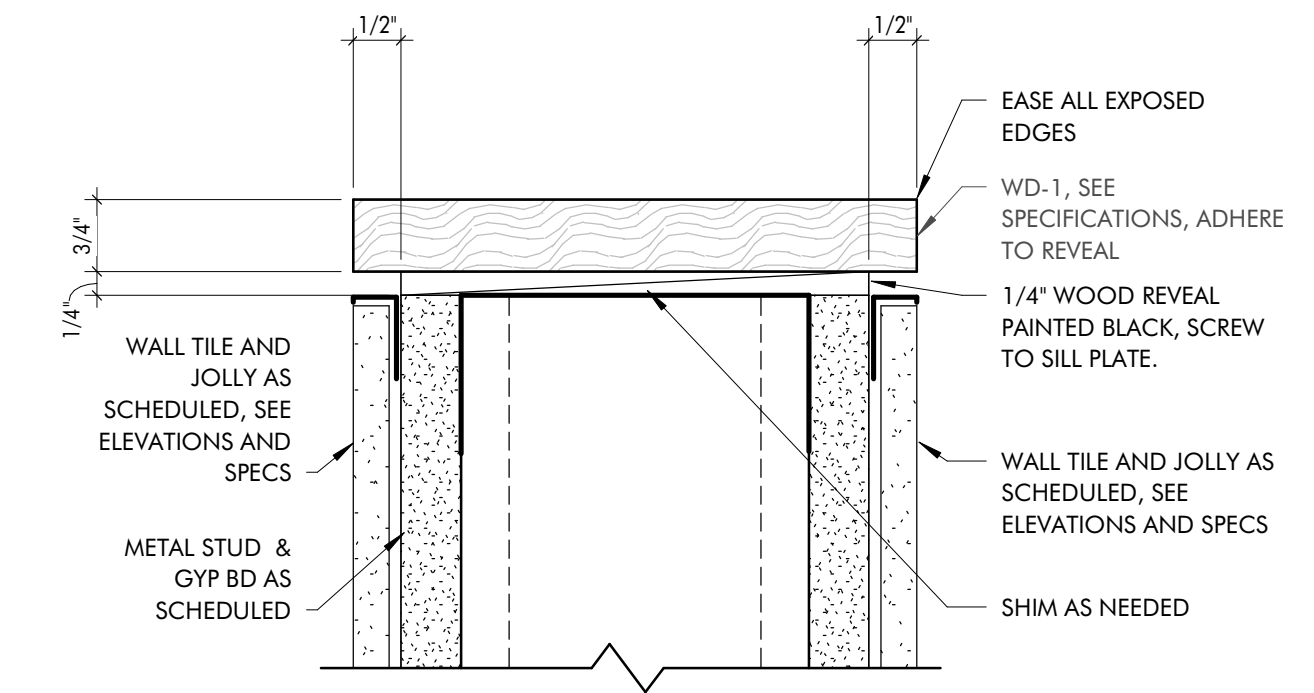
3 ACC-ACCESSIBLE COUNTER W/SINK & APRON
3/4" = 1'-0"



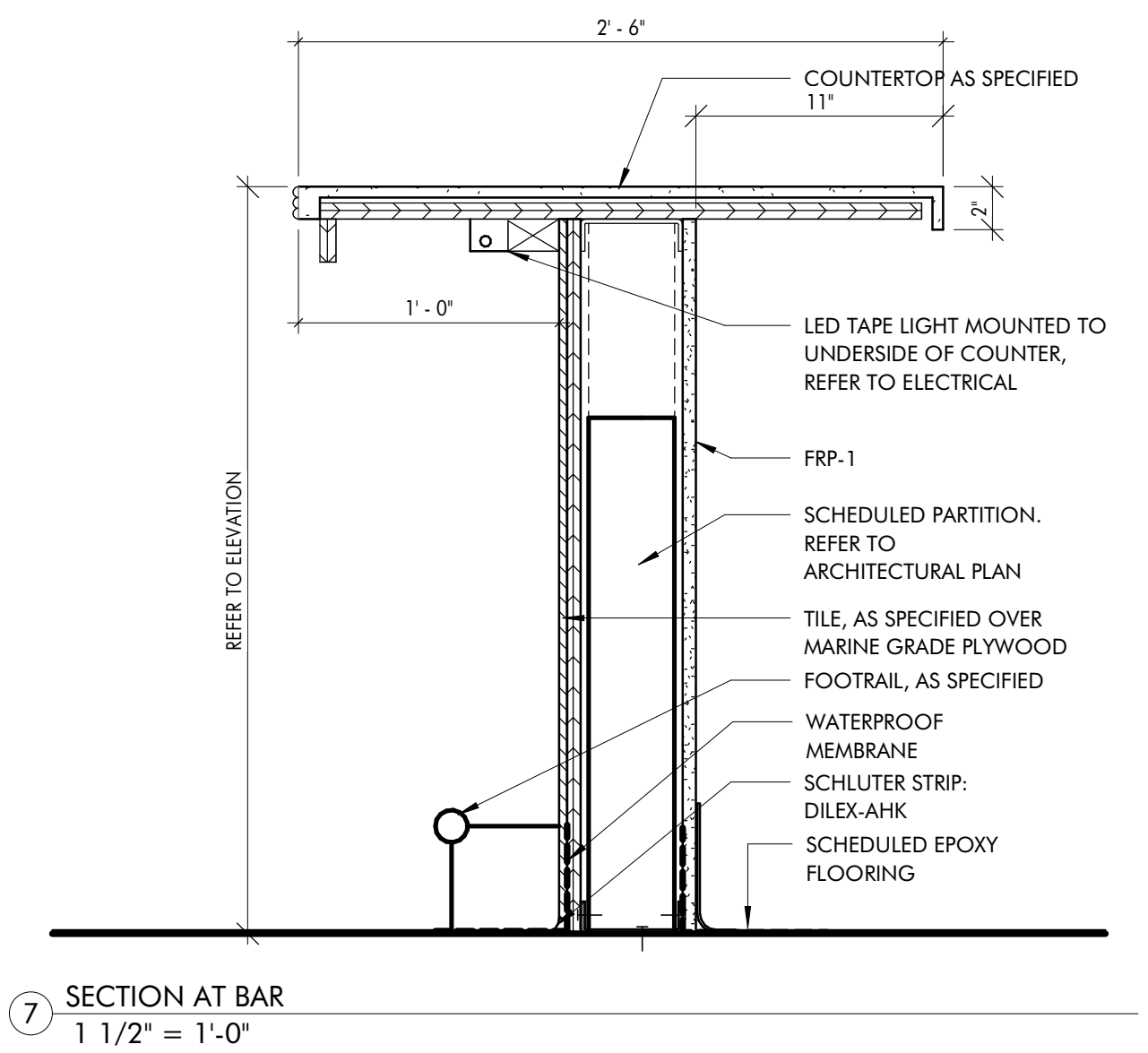
4 MIL-COUNTER - LOW WALL SUPPORT
1 1/2" = 1'-0"



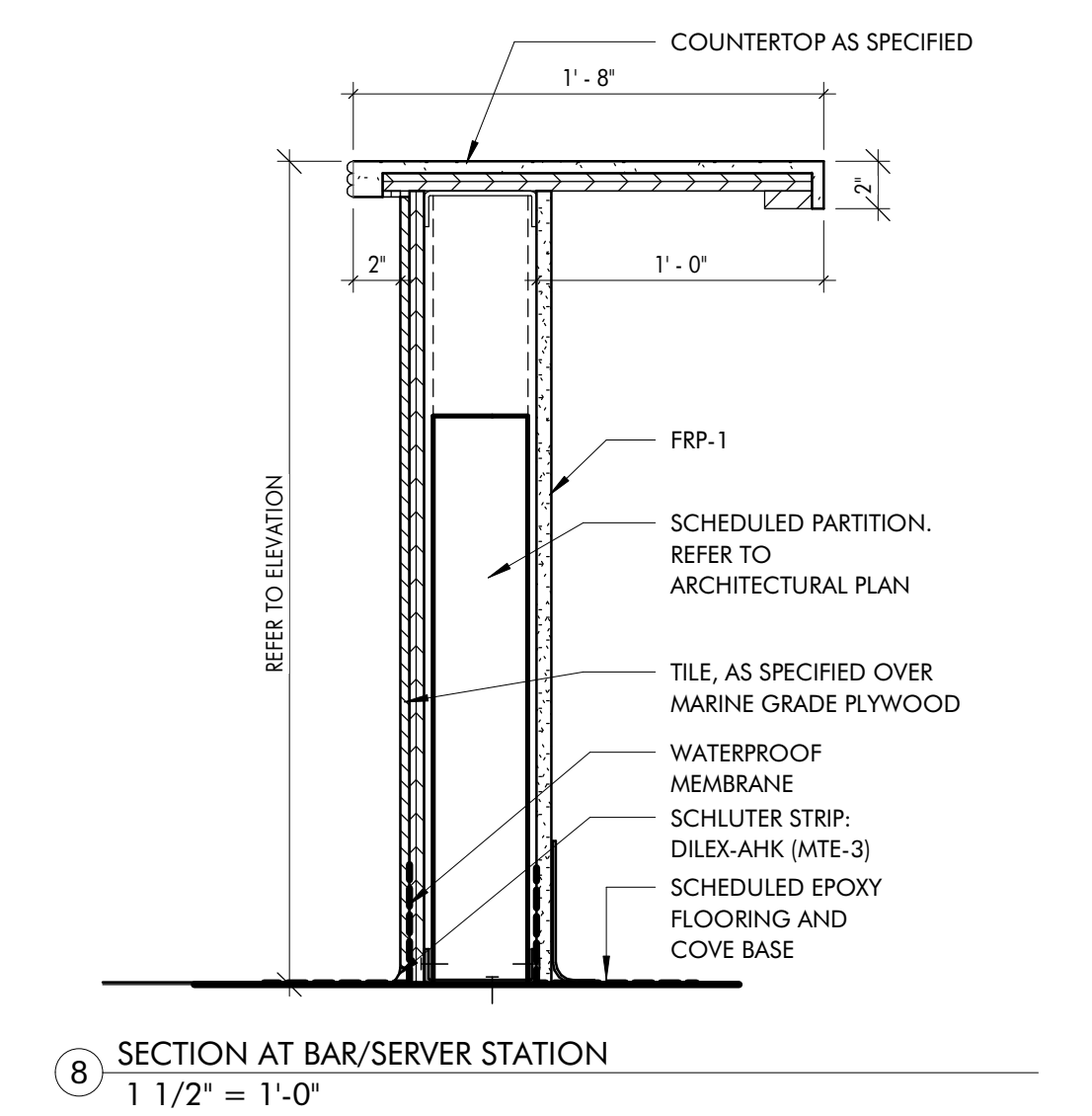
5 MIL-COUNTER - SUPPORT
1 1/2" = 1'-0"



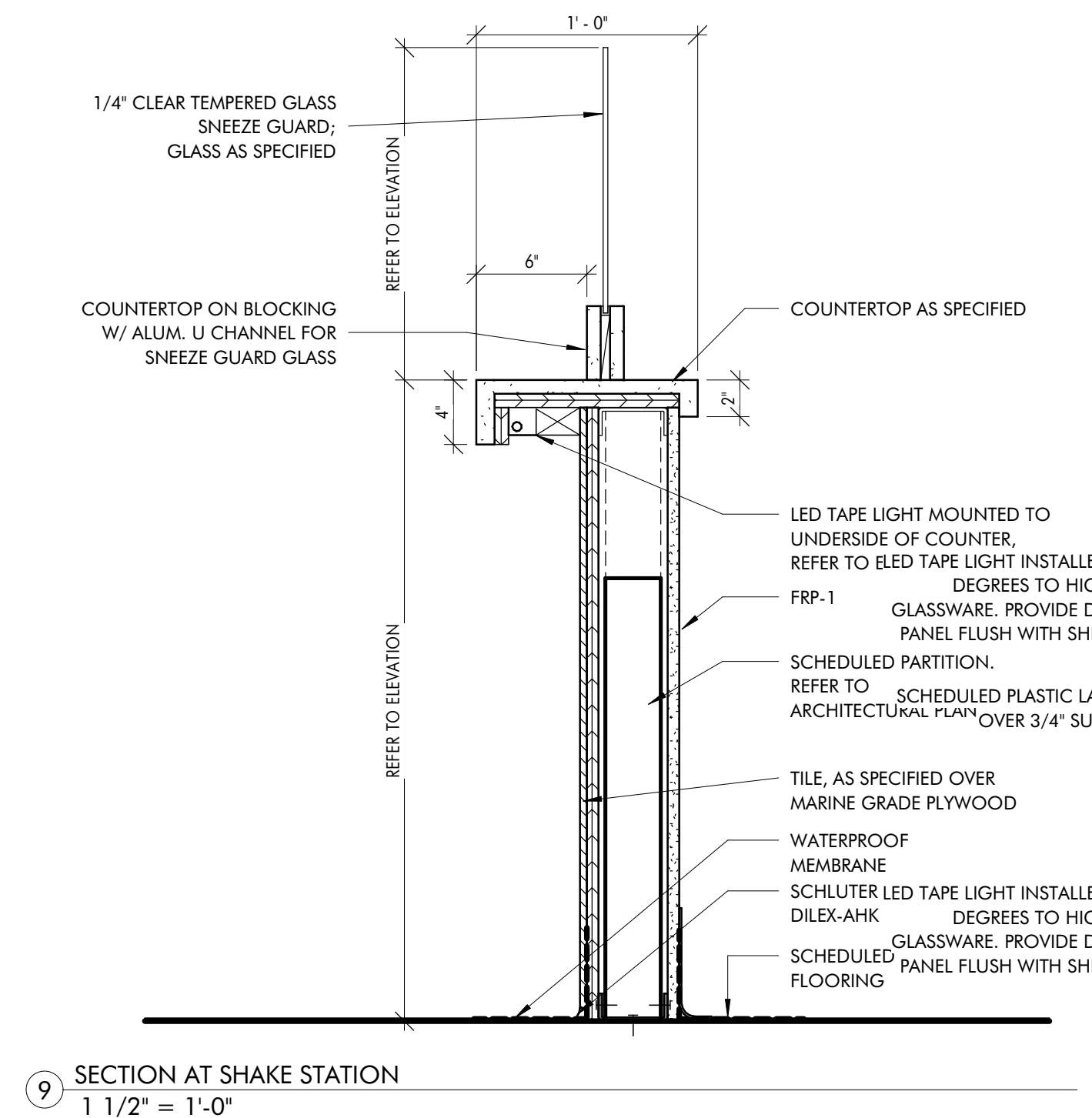
6 TOP CAP AT LOW WALL
6" = 1'-0"



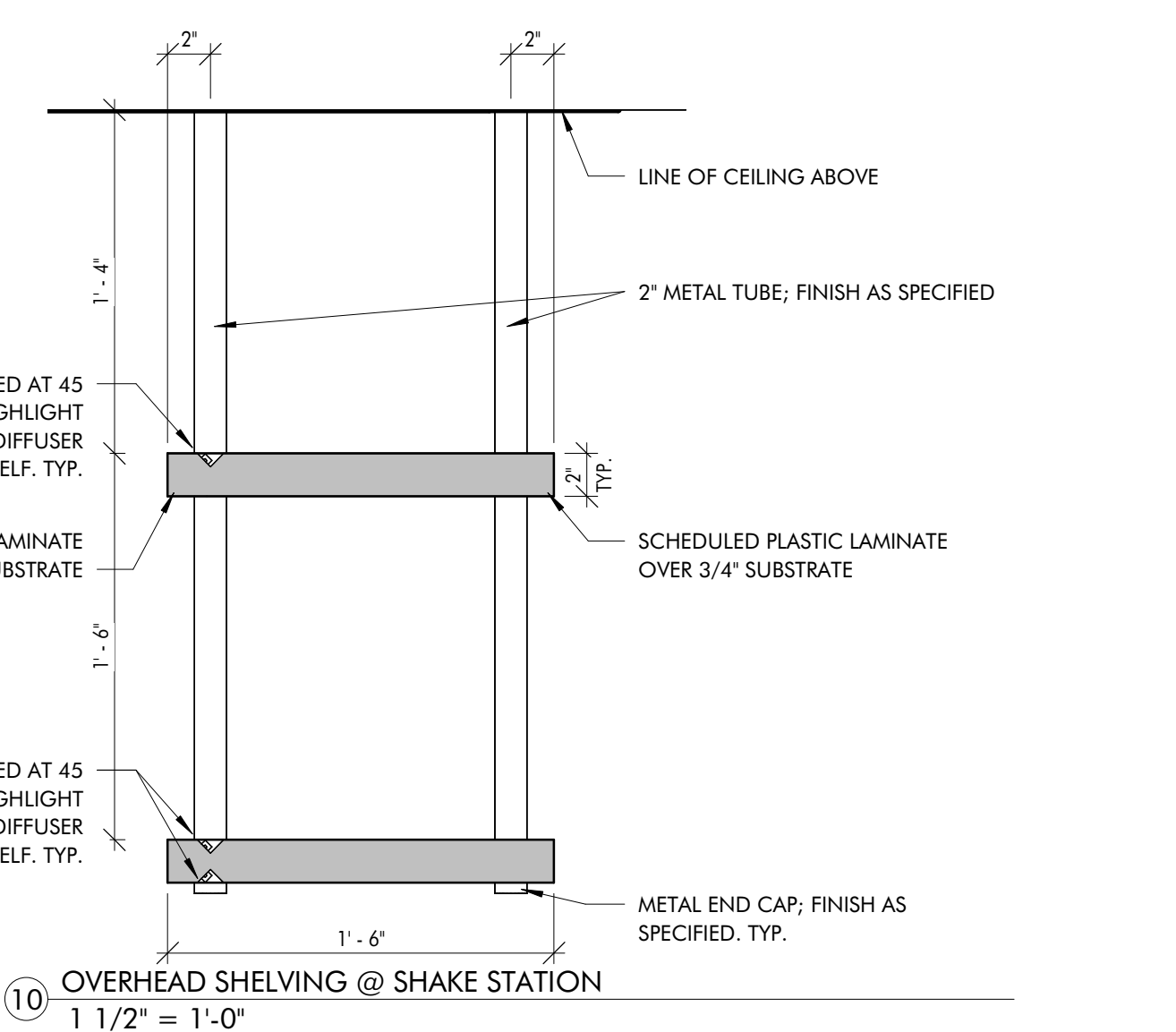
7 SECTION AT BAR
1 1/2" = 1'-0"



8 SECTION AT BAR/SERVER STATION
1 1/2" = 1'-0"



9 SECTION AT SHAKE STATION
1 1/2" = 1'-0"



10 OVERHEAD SHELVING @ SHAKE STATION
1 1/2" = 1'-0"

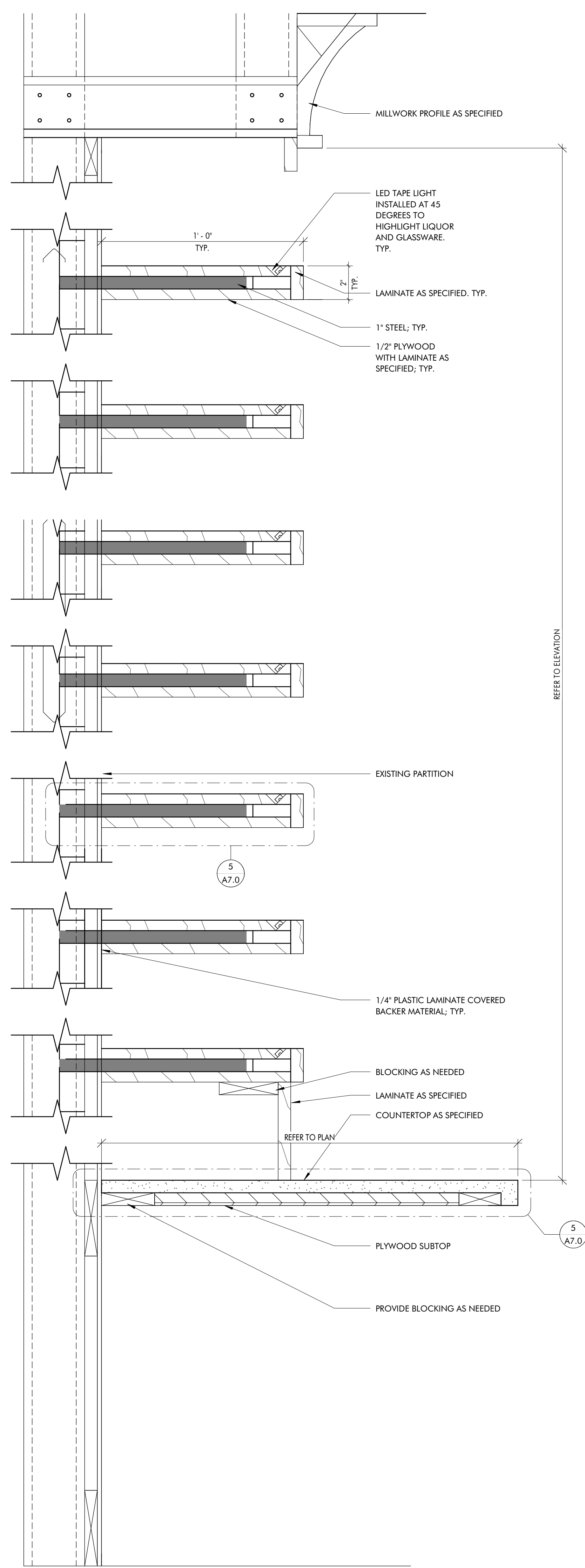
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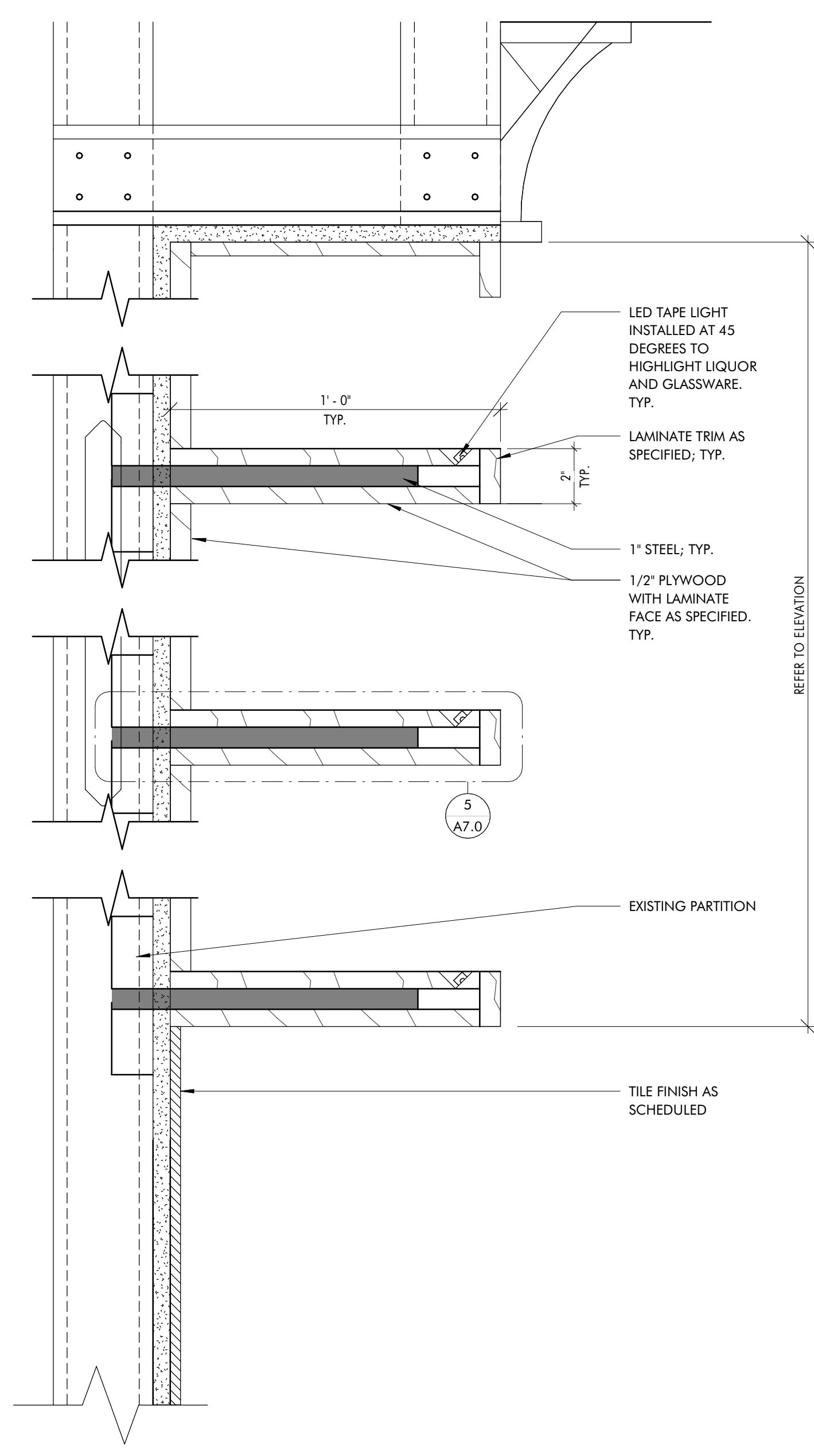
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MILLWORK DETAILS **A7.0**
BN1580

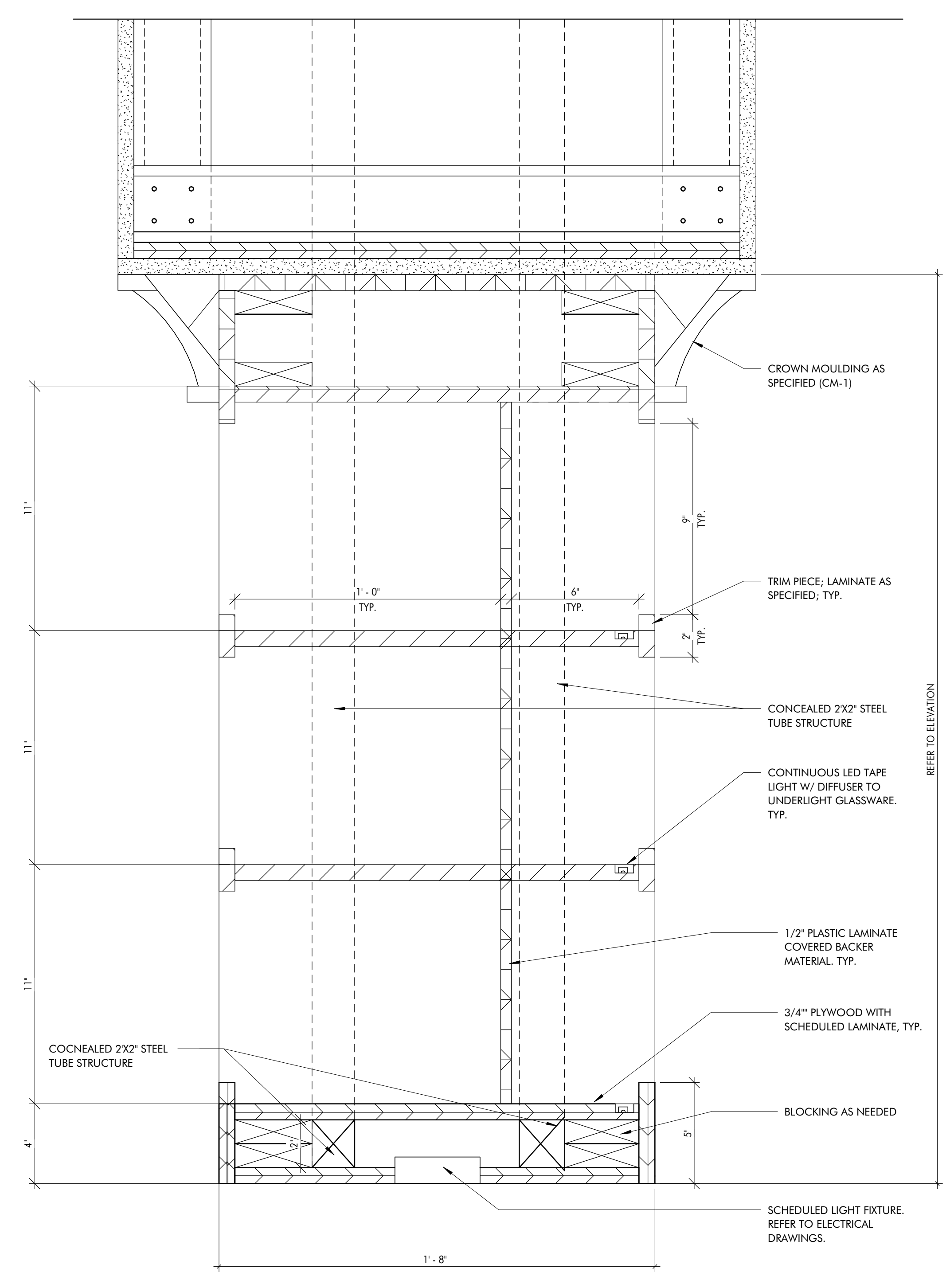
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1 MIL-MILK JUG SHELVES - BACK BAR
3" = 1'-0"



2 MIL-MILK JUG SHELVES
3" = 1'-0"



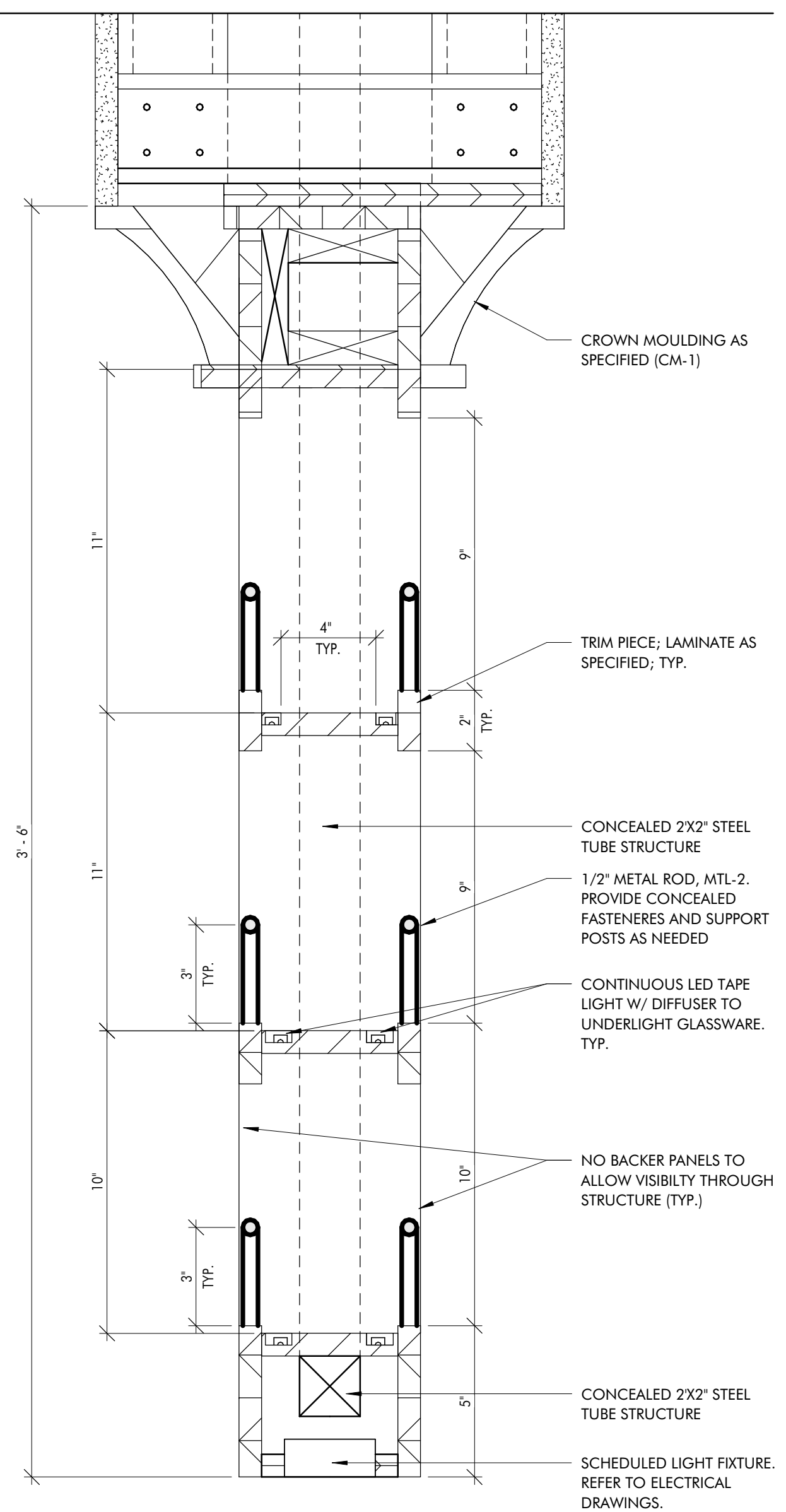
3 MIL-MILK JUG SHELVES W. OPEN SHELVING
3" = 1'-0"

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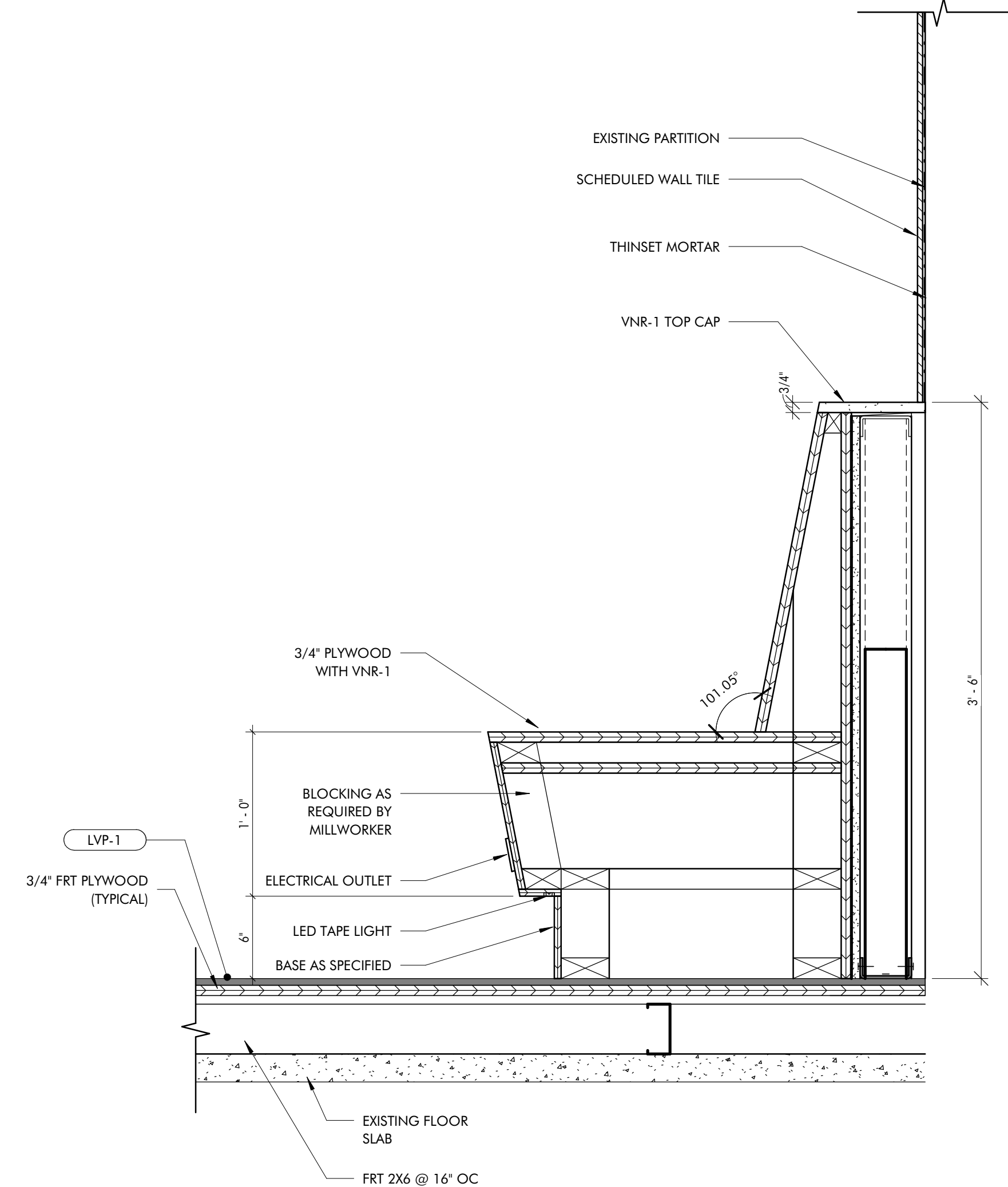


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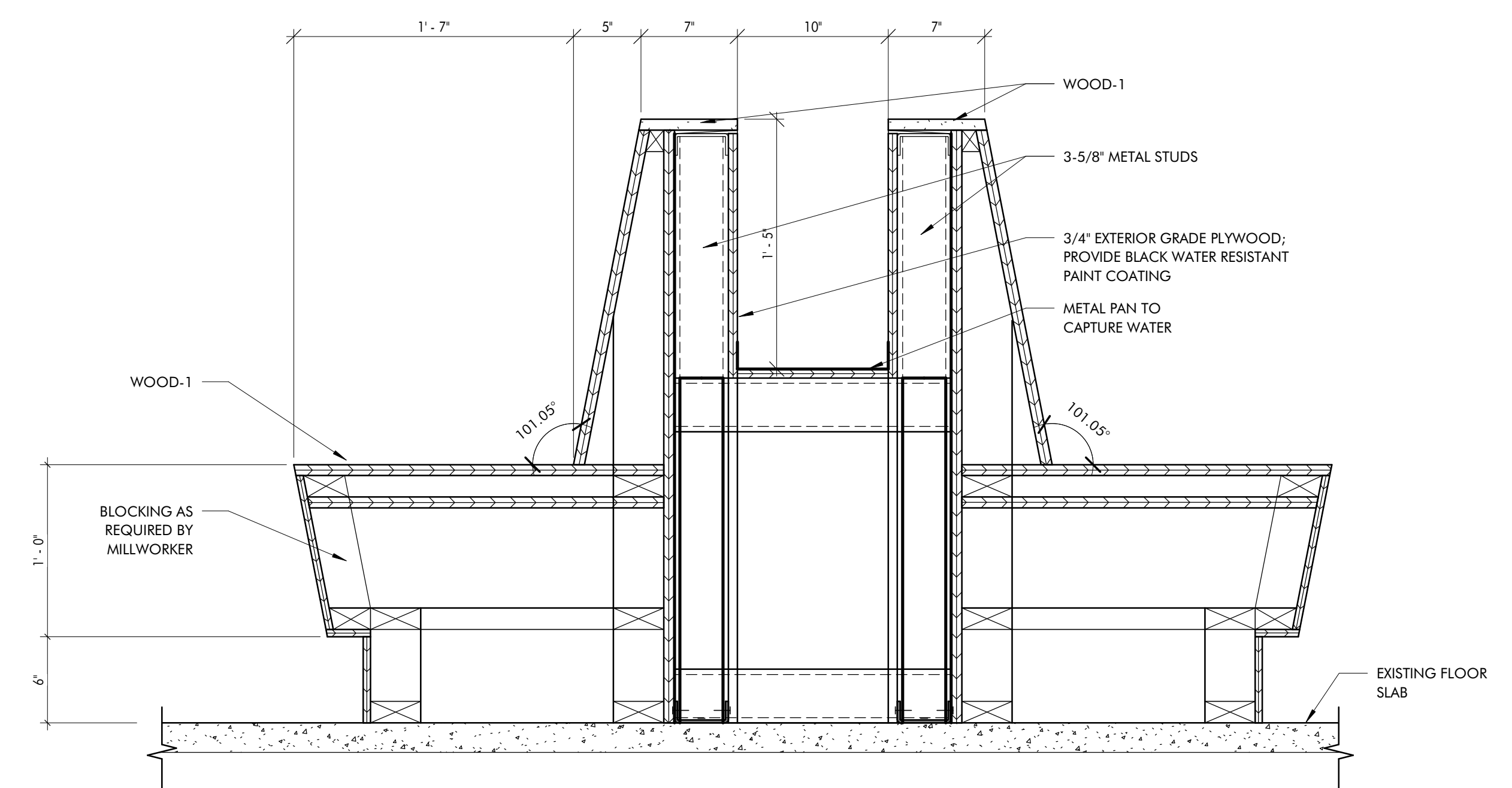
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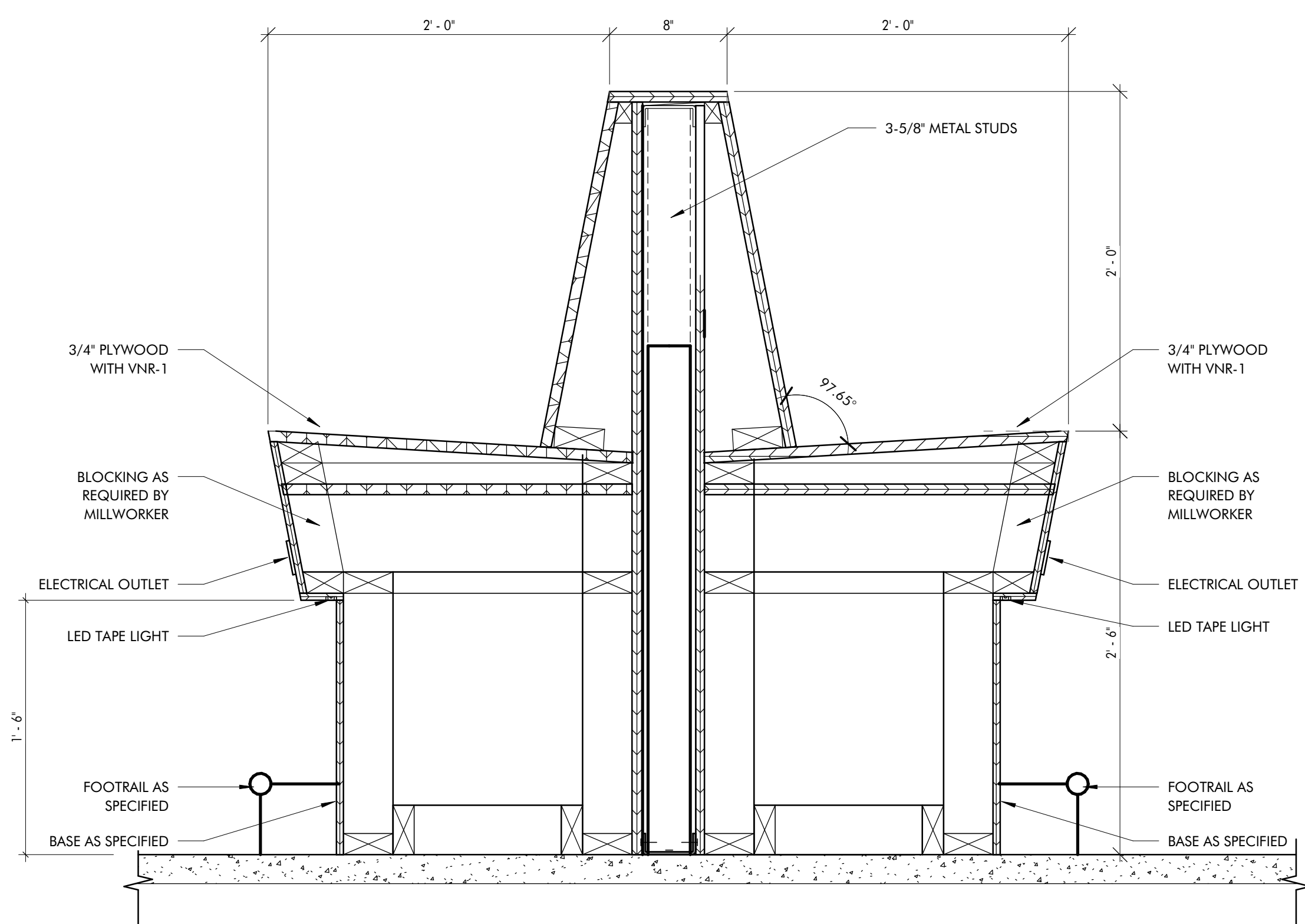
1 MIL-MILK JUG SHELVES W. METAL RAIL
3" = 1'-0"



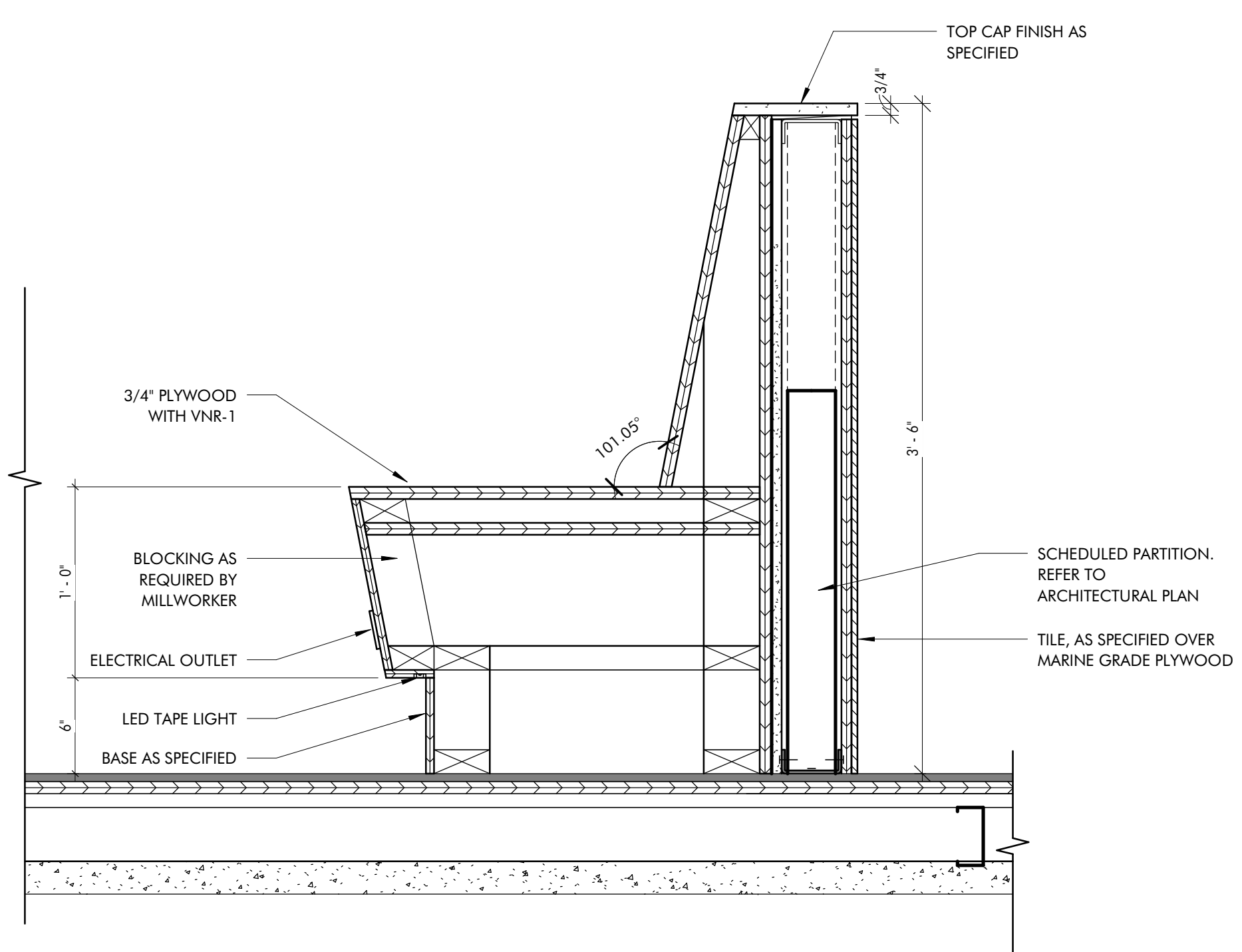
2 SECTION AT BOOTH AND DINING PLATFORM @ EXISTING WALL
1 1/2" = 1'-0"



3 SECTION AT BOOTH AND PLANTER
1 1/2" = 1'-0"



4 SECTION AT BOOTH AND PLANTER
1 1/2" = 1'-0"

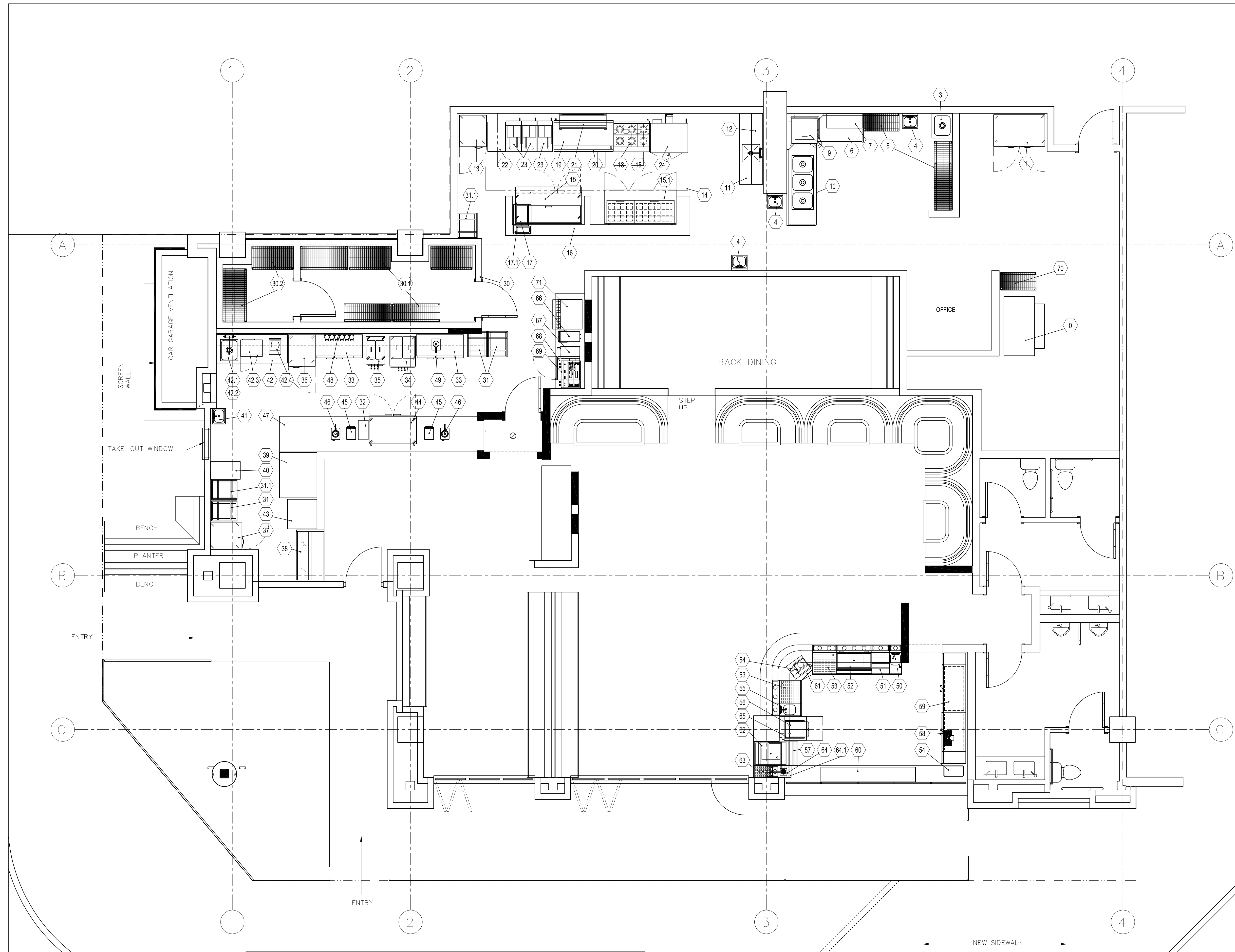


5 SECTION AT BOOTH AND DINING PLATFORM
1 1/2" = 1'-0"

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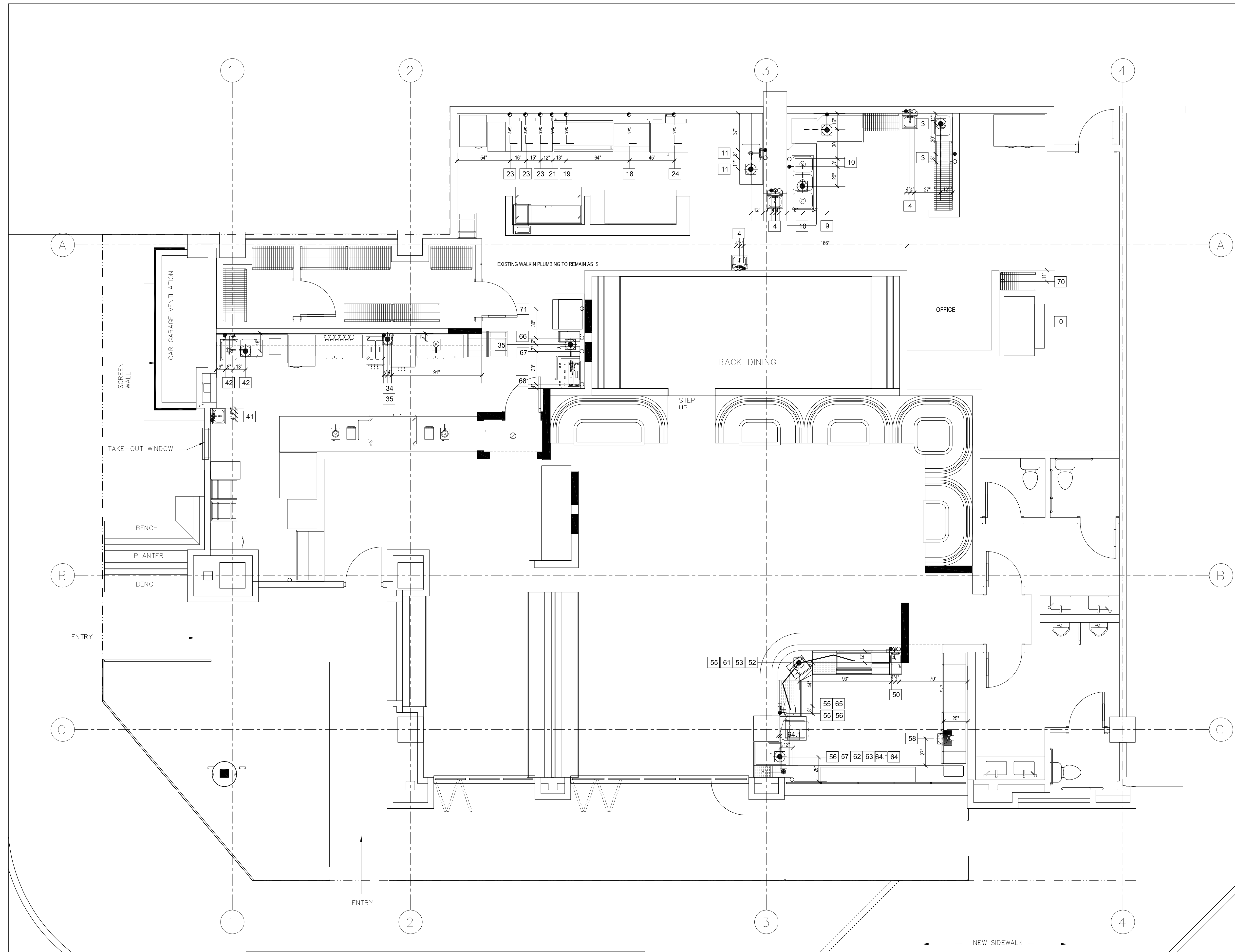
BN1580 JOJO'S SHAKE BAR
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FOOD SERVICE EQUIPMENT

ITEM NUMBER	QUANTITY	ITEM DESCRIPTION
0	1	ICE MAKER W/BIN (EXISTING)
1	1	REACH IN FREEZER
2	2	WALL MTD. POT RACKS
3	1	MOP SINK (EXISTING AS IS)
4	2	HAND SINKS
5	1	STORAGE SHELVING
6	1	CLEAN DISHTABLE
7	1	WALL SHELF
8	-	SPARE NUMBER
9	1	WAREWASHER
10	1	SOILED DISHTABLE
11	1	WORKTABLE W/SINK
12	1	WALL SHELF
13	1	REACH-IN FREEZER
14	1	EXHAUST HOOD (EXISTING TO REMAIN AS IS)
15	1	PIZZA PREP TABLES
15	1	MEGA TOP SANDWICH REFRIGERATOR
16	1	PASS THRU SHELF & HEAT LAMPS(EXIST TO REMAIN AS IS)
17	1	FOOD WARMER
17.1	1	FOOD WARMER
18	1	6-BURNER RANGE
19	1	FLAT GRIDDLE
20	1	REFRIGERATED COOK STAND
21	1	CHEESE MELTER
22	1	WORKTABLE
23	3	FRYERS
24	1	CONVECTION OVEN
25	-	SPARE NUMBER
26	-	SPARE NUMBER
27	-	SPARE NUMBER
28	-	SPARE NUMBER
29	-	SPARE NUMBER
30	1	WALK-IN COOLER/FREEZER (EXISTING TO REMAIN AS IS)
30.1	LOT	COOLER SHELVING
30.2	LOT	FREEZER SHELVING
31	4	BUN PAN RACKS
31.1	2	BUN PAN RACKS (30)
32	1	TRASH CAN
33	2	BACKBAR COOLERS
34	1	SOFT SERVE ICE CREAM DISPENSER
35	1	SOFT SERVE ICE CREAM DISPENSER
36	1	REACH-IN REFRIGERATOR
37	1	REACH-IN FREEZER
38	1	GELATO CABINET
39	1	POPSICLE MACHINE
40	1	WORK TABLE
41	1	HAND SINK
42	1	WORKTABLE W/SINK (42.1 SINK, 42.2 FAUCET)
42.3	1	MICROWAVE OVEN
42.4	1	INDUCTION COOKER
43	1	WORKTABLE
44	1	UNDERCOUNTER REFRIGERATOR
45	2	DRINK MIXERS
46	2	WHIPPED CREAM DISPENSERS
47	1	WORKTABLE
48	1	DRY DISPENSER
49	1	HEATED DISPENSER
50	1	HAND SINK
51	1	LIQUOR STEP
52	1	ICE CHEST
53	2	GLASS RACK CABINETS
54	1	TRASH CAN
55	1	STORAGE CABINET W/SINK
56	1	GLASSWASHER
57	1	PASS THRU SERVICE STATION
58	1	BEER DISPENSER
59	1	BACK BAR COOLER
60	1	CABINET
61	1	CUSTOM DRAINBOARD
62	1	DRAINBOARD
63	1	DRAINBOARD
64	1	DRAINBOARD
64.1	1	RINSE STATION
65	1	FROZEN BEVERAGE DISPENSER
66	1	ICE TEA UNIT
67	1	COFFEE MAKER
68	1	ESPRESSO/CAPPUCHINO MACHINE
69	1	UNDERCOUNTER REFRIGERATOR
70	1	BAG IN BOX
71	1	SODA AND ICE DISPENSER





PLUMBING NOTES:

Utility Load Schedule sheets:

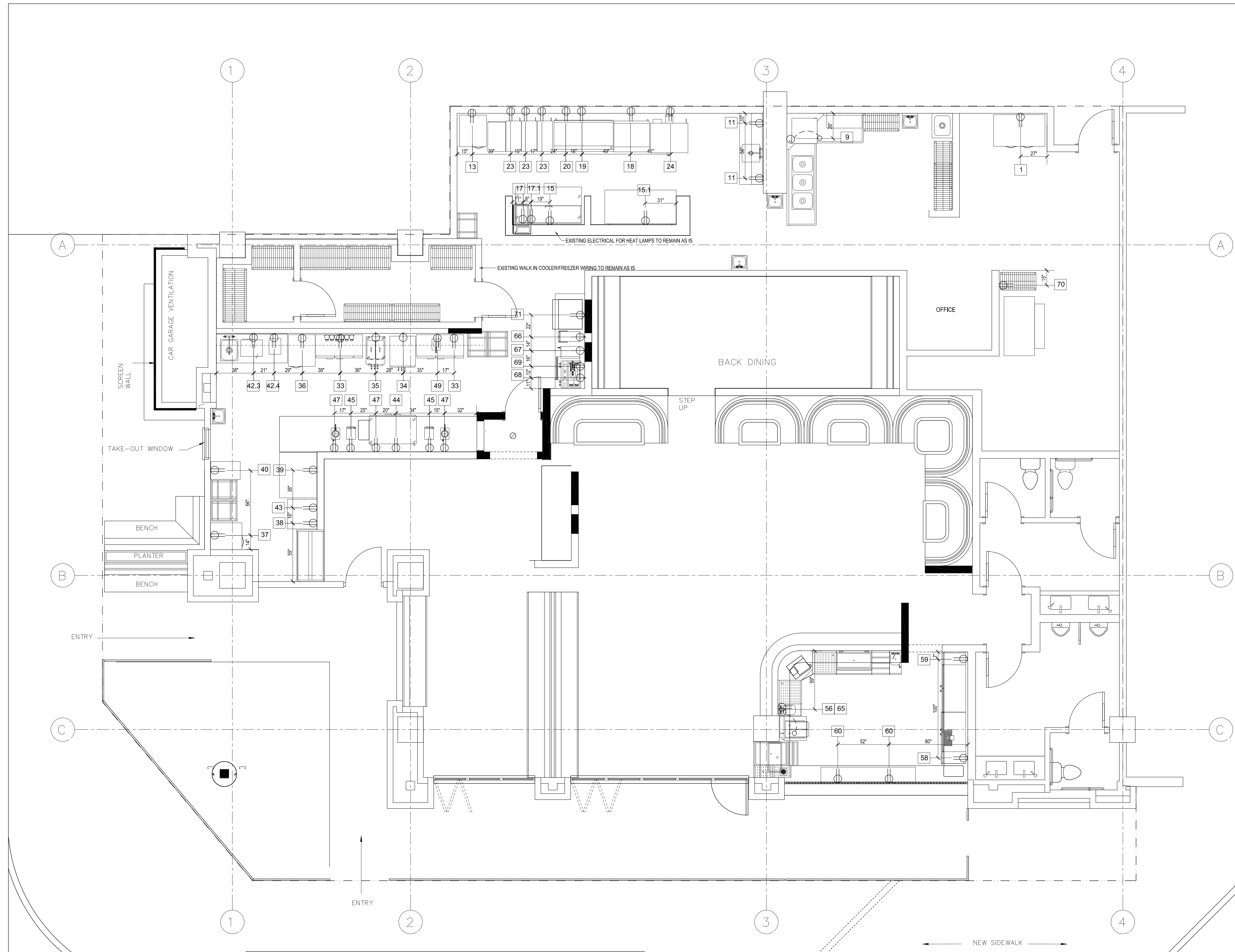
Utility Load Schedule sheets are supplied as a convenience to project engineers in determining the requirements of various foodservice equipment. These are intended to be used in conjunction with equipment catalog cut sheets, shop drawings, etc. in the preparation of electrical and mechanical rough-in drawings.

- 1) Plumbing contractor to be responsible for the final connections and installation of all plumbing components such as but not limited to faucets, waste assemblies, etc) provided by the foodservice equipment contractor.
- 2) Plumbing contractor shall provide and install all necessary automatic fire gas shut off valves as required and verify with kitchen equipment contractor if shut off valve being supplied is mechanical or solenoid according to fire suppression system requirements.
- 3) Plumbing contractor to verify with mechanical engineer and local codes all required components (such as grease traps, vacuum breakers, etc.) for the proper operation of foodservice equipment and type of drain connections required and install accordingly.
- 4) Plumbing contractor to supply and install all required pressure reducing and regulating valves required for the proper operation of foodservice equipment.
- 5) All floor sinks and/or floor drains shall be set flush with finished floors fully or partially exposed floor sinks to be complete with top grate, type as indicated and supplied by plumbing contractor
- 6) Plumbing contractor shall provide and run all indirect waste lines from equipment and fixtures and shall install and connect faucets unless noted otherwise
- 7) General water pressure in kitchen shall not exceed 50 lbs. Pressure for dishwashers to be 25 lbs. max. Plumbing contractor to furnish and install pressure reducing valves if required.
- 8) Plumbing contractor to verify height of dishwashers and/or potwashers waste connections, make proper provision for traps, and set in or under floor if necessary.
- 9) Verify mechanical requirements for all owner and/or purveyor supplied new and/or reused equipment.
- 10) Plumbing contractor shall run drain lines thru grease trap if required by code, IE: Pot sinks, Dishwashers, etc.
- 11) Co-ordinate with equipment manufacturers floor drain locations located under cooking equipment so drain location will not interfere with functioning or warranty of equipment (I.E. convection steamers & Combi Ovens).

General Plumbing Notes:

- 1) All dimensions shown are from finished walls, columns and floors. Where base sizes are shown they shall include finished surfaces.
- 2) All final and equipment interconnections are to comply with all, federal, state, and local codes.
- 3) Rough-in/Spot connection drawings are to be used in conjunction with equipment brochure books, shop drawings, etc. to determine all equipment requirements.
- 4) All dimensions of rough-in locations are to be verified and agree with latest Architectural plan.
- 5) All curbs (I.E. Masonry bases for Foodservice Equipment, Roof curbs for Fans and Refrigeration Racks Etc.) as required are not provided by the Kitchen Equipment Contractor.
- 6) Various trades to furnish any additional hardware required for the proper operation of Foodservice Equipment such as all valves, stops, traps, disconnect switches and wiring to control equipment such as soda and remote compressors, Fire systems, and disposers as required.
- 7) Architect, Engineer, & Building trades to verify building code in regard to acceptable Drain and Pipe material. Foodservice drains need to accommodate temperatures above 200 degrees Fahrenheit. Drainage system needs to be designed accordingly.
- 8) Trades to verify with owner/operator requirements for cash system and to supply all necessary components for its proper operation.
- 9) Trades to verify requirements with equipment manufacturer for items supplied by purveyor such as coffee makers, beverage dispensers, tea brewers, etc.
- 10) General contractor to provide and install all necessary conduit for the routing of soda, beer, and refrigeration lines and verify routing with purveyor and owner.
- 11) All outlets and connections shown on this plan are relative to foodservice equipment and fixtures. See architect/Engineer plans for additional requirements.
- 12) All connectos shown on this plan shall be made as per federal, state, and local codes
- 13) All Floor sinks and Floor drains shown on the foodservice equipment drawing are for food service equipment only. Area drains are the responsibility of the Mech. engineers.





ELECTRICAL NOTES:

Utility Load Schedule sheets:

Utility Load Schedule sheets are supplied as a convenience to project engineers in determining the requirements of various foodservice equipment. These are intended to be used in conjunction with equipment catalog cut sheets, shop drawings, etc. in the preparation of electrical and mechanical rough-drawings.

General Electrical and Mechanical Notes:

- 1) All dimensions shown are from finished walls, columns and floors. Where base sizes are shown they shall include finished surfaces.
- 2) All final and equipment interconnections are to comply with all, federal, state, and local codes.
- 3) Rough-in/Spot connection drawings are to be used in conjunction with equipment brochures books, shop drawings, etc. to determine all equipment requirements.
- 4) All dimensions of rough-in locations are to be verified and agree with latest Architectural plan.
- 5) All curbs (I.E. Masonry bases for Foodservice Equipment, Roof curbs for Fans and Refrigeration Racks Etc.) as required are not provided by the Kitchen Equipment Contractor.
- 6) Various trades to furnish any additional hardware required for the proper operation of Foodservice Equipment such as all valves, stops, traps, disconnect switches and wiring to control equipment such as soda and remote compressors, Fire systems, and disposers as required.
- 7) Architect, Engineer, & Building trades to verify building code in regard to acceptable Drain and Pipe material. Foodservice drains need to accommodate temperatures above 200 degrees Fahrenheit. Drainage system needs to be designed accordingly.
- 8) Trades to verify with owner/operator requirements for cash system and to supply all necessary components for its proper operation.
- 9) Trades to verify requirements with equipment manufacturer for items supplied by purveyor such as coffee makers, beverage dispensers, tea brewers, etc.
- 10) General contractor to provide and install all necessary conduit for the routing of soda, beer, and refrigeration lines and verify routing with purveyor and owner.
- 11) All outlets and connections shown on this plan are relative to foodservice equipment and fixtures. See architect/Engineer plans for additional requirements.
- 12) All connects shown on this plan shall be made as per federal, state, and local codes

Electrical Notes:

- 1) All interwiring between roughed in electrical junction boxes and foodservice equipment are to be done by electrical contractor. This interwiring includes, but is not restricted to Walk-in refrigeration boxes, disposers, hot food wells, exhaust hoods, etc.
- 2) All connections shown on drawings are the approximate connection locations required for the foodservice equipment being furnished by the Kitchen Equipment Contractor and allowances must be made to extend to the final connection point.
- 3) Any changes to the locations shown on drawings are to be verified with the Architect, Consultant and Foodservice Contractor.
- 4) Trades are to make final connections between electrical service rough-in points and equipment to be compliant with local codes.
- 5) Dimensioned Rough-in drawings are to be used in conjunction with equipment manufacturers shop drawings, detailed drawings, specifications, and equipment brochure book in determining proper service to foodservice equipment.
- 6) Electrical Contractor shall furnish connections to equipment setting on counters that do not come with cord & plugs from outlet box or receptacle.
- 7) Electrical outlets and piping roughed up under island equipment to be stubbed up a maximum of 4" max to top of device or less so as not to interfere with the installed equipment with all floor openings sealed water tight or 1" Min above fin floor or flush with curbs.
- 8) Electrical contractor shall supply and install all junction boxes, refrigeration pull boxes, electrical outlets, cover plates, switches and disconnect switches not built into foodservice equipment or fixtures, also, conduit, wiring and component installation of remote refrigeration and cold storage room equipment, including lighting fixtures as shown on plan.
- 9) Electrical contractor shall provide lock-out devices on circuit breakers controlling exhaust, refrigeration and fire protection system controls.
- 10) Electrical contractor shall furnish and install all starters, motor control switches, remote controls and transformers, if required, for foodservice equipment and fixtures.
- 11) Electrical contractor shall supply all required cords and caps for those items supplied by KEC that do not come provided with cord and cap. Electrical contractor shall provide U.L. approved connectors for manufactured appliances and/or fabricated equipment.

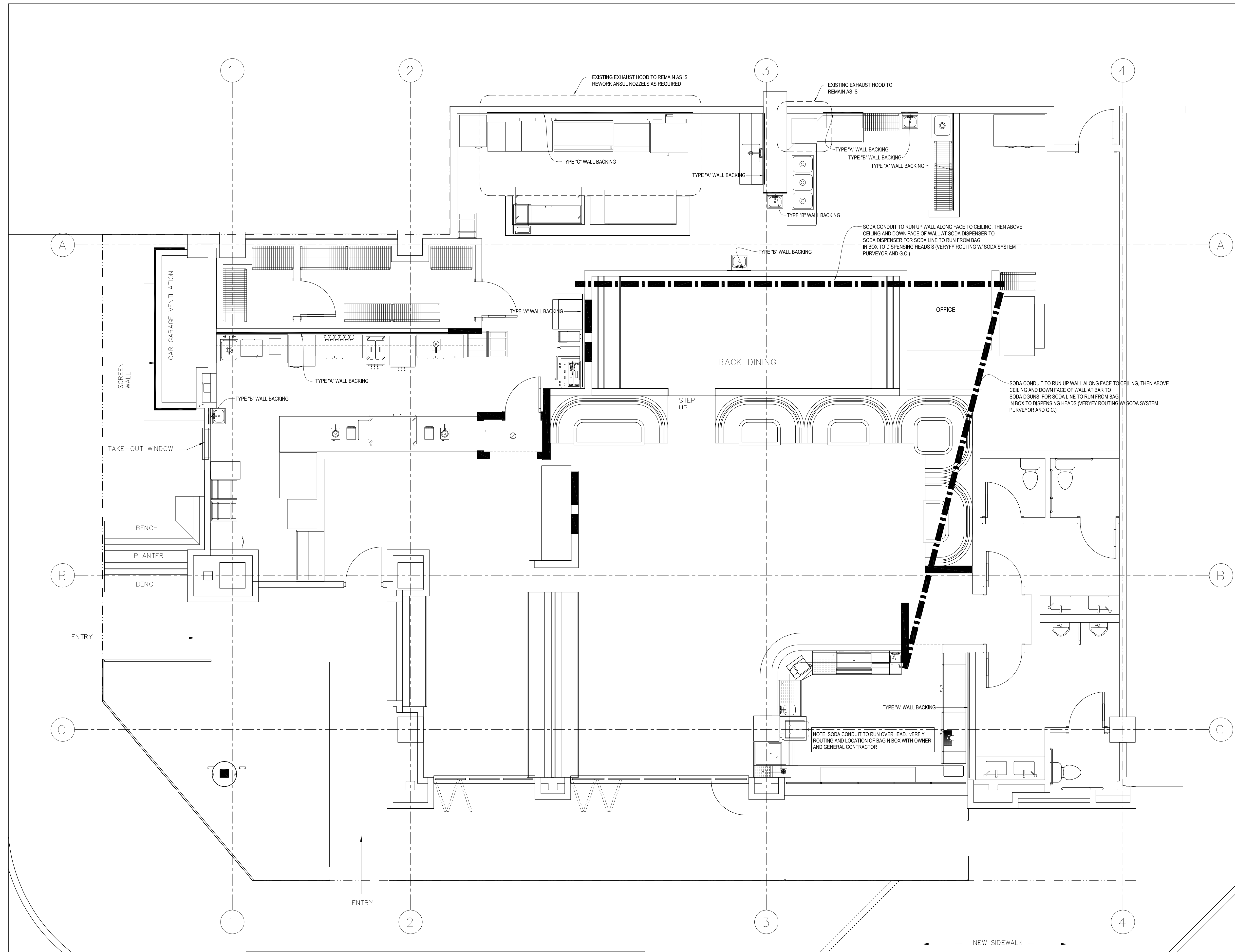
Walk-in Refrigerated boxes and Remote Refrigeration equipment:

- 1) Additional Walk-in lights are supplied by the Kitchen Equipment contractor and are to be wired in field by Electrical Contractor.
- 2) All interwiring between remote refrigerated condensers/compressors to be done by Electrical contractor.
- 3) Electrical Contractor to interwire between drain line heat tape and junction box in all walk-in freezers.
- 4) Electrical Contractor to interwire between junction box and Walk-in cooler controls, door heater, and all additional Walk-in accessories including defrost time clock on freezers.
- 5) Ice Makers - Electrical Contractor to make all necessary interwiring connections between ice machine and remote refrigeration condenser/compressors.

Exhaust Hoods:

- 1) Electrical contractor to provide octagonal "J" boxes with 3/4" conduit to above finished ceiling for fire suppression system remote pulls. These locations and requirements are to be verified with fire suppression system contractor and local and state codes.
- 2) Electrical contractor to co-ordinate with fire suppression system contractor and supply and install shunt trips in electrical panels that would shut off cooking equipment items in conjunction with fire systems and interwire with fire systems and fire alarms and equipment valves.
- 3) Electrical contractor to interwire with any alarm devices that might be required by federal, state or local codes.





GENERAL CONTRACTORS NOTES:

General Contractors Notes:

- 1) All walls in contact with or within 6" of fryers, ranges, broilers or Ovens, shall be constructed of Non-Combustible, heat proof materials.
- 2) Unless specified otherwise General contractor shall furnish and install all stainless steel wall caps and/or corner guards in positions as shown on plan. Wall caps and/or corner guards shall be minimum 12 ga. stainless steel, vertical type, 4'-0" high
- 3) Refrigeration and Ventilation information are intended to show approximate outlet locations, connections positions and load requirements. Final locations will be shown on approved, dimensioned manufacturer's shop drawings.
- 4) All refrigerant conduit runs shall have a minimum of 24" radius bends and shall terminate 2" out of walls and/or floors
- 5) All exhaust duct connections are shown with inside dimensions. Connecting ductwork shall sleeve into duct openings and be made "grease proof".
- 6) All ductwork beyond the connection points shown on this plan, and all required roof-top equipment including curbs, exhaust & supply fans, etc. shall be furnished and installed by the HVAC contractor unless noted otherwise.

WALL BACKING: General Contractor to provide In-Wall Reinforcing or Plywood backing as required for wall mounted equipment. Co-ordinate with Foodservice Equipment Contractor.

TYPE "A" WALL BACKING - FOR WALL SHELVING AND CABINETS 36" TO 96" ABOVE FINISHED FLOOR

TYPE "B" WALL BACKING - FOR HAND SINKS 24" TO 48" ABOVE FINISHED FLOOR

TYPE "C" WALL BACKING - FOR COOKING LINE EQUIPMENT RESTRAING DEVICES AND WALL MTD. EQUIPMENT +6" TO 78" ABOVE FINISHED FLOOR

NOTE: VERIFY REQUIREMENTS OF WALL BACKING FOR EXISTING WALLS

MECHANICAL SPECIFICATIONS:	
PART 1 - GENERAL	
1.1 SUBMITTALS	A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
1.2 WARRANTY	A. WARRANT NEW AND MODIFIED DUCTWORK FOR PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF JOB, AGAINST NOISE AND VIBRATION UNDER FULL RANGE OF OPERATING CONDITIONS.
PART 2 - PRODUCTS	
2.1 METAL DUCTS	A. CONTINUOUS HOT-DIP MILL GALVANIZED, MINIMUM COATING OF G60, LOCK-FORMING QUALITY STEEL SHEETS IN ACCORDANCE WITH ASTM A653. B. GAUGES: SHEET METAL GAUGE AS SPECIFIED IN SMACNA - HVAC DUCT CONSTRUCTION STANDARDS BUT NOT LESS THAN THE FOLLOWING: 1. RECTANGULAR DUCT: 26 GAUGE FOR ALL SIZES. 2. ROUND DUCT: PRIME GRADE STEEL SHEET. a. 14 INCH DIAMETER AND SMALLER: 26 GAUGE. b. 16 INCH DIAMETER THRU 26 INCH DIAMETER: 24 GAUGE. C. ROUND DUCT SHALL BE SPIRAL SEAM WHERE EXPOSED AND NOT INSULATED. IN ALL OTHER AREAS SPIRAL OR LONGITUDINAL SHALL BE USED.
2.2 TURNING VANES	A. MANUFACTURED TURNING VANES FOR METAL DUCTS: CURVED BLADES OF GALVANIZED SHEET STEEL; SUPPORT WITH BARS PERPENDICULAR TO BLADES SET; SET INTO VANE RUNNERS SUITABLE FOR DUCT MOUNTING. B. GENERAL REQUIREMENTS: COMPLY WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE"; FIGURES 4-3 "VANES AND VANE RUNNERS," 4-4, "VANE SUPPORT IN ELBOWS." C. VANE CONSTRUCTION: SINGLE WALL
2.3 SEALANT AND GASKET	A. GENERAL SEALANT AND GASKET REQUIREMENTS: SURFACE-BURNING CHARACTERISTICS FOR SEALANTS AND GASKETS SHALL BE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE- DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO UL 723; CERTIFIED BY AN NRTL.
2.4 HANGERS AND SUPPORTS	A. HANGER RODS: CADMIUM-PLATED STEEL RODS AND NUTS. B. STRAP AND ROD SIZES: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" TABLE 5-1, "RECTANGULAR DUCT HANGERS MINIM SIZE;" AND TABLE 5-2 "MINIMUM HANGER SIZES FOR ROUND DUCT." C. STEEL CABLES FOR GALVANIZED STEEL DUCTS: GALVANIZED STEEL COMPLYING WITH ASTM A 603. D. STEEL CABLE END CONNECTIONS: CADMIUM PLATED STEEL ASSEMBLIES WITH BRACKETS, SWIVEL, AND BOLTS DESIGNED FOR DUCT HANGER SERVICE; WITH AN AUTOMATIC-LOCKING AND CLAMPING DEVICE. E. DUCT ATTACHMENTS: SHEET METAL SCREWS, BLIND RIVETS, OR SELF-TAPPING METAL SCREWS; COMPATIBLE WITH DUCT MATERIALS.
2.5 MECHANICAL EQUIPMENT	A. PROVIDE EQUIPMENT INDICATED ON DRAWINGS. B. PRODUCTS REQUIRING ELECTRICAL CONNECTION: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES, INCORPORATED, AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED. C. OPERATION AND MAINTENANCE DATA: INCLUDE MANUFACTURER'S DESCRIPTIVE LITERATURE, OPERATING INSTRUCTIONS, MAINTENANCE AND REPAIR DATA, AND PARTS LISTING FOR MECHANICAL EQUIPMENT.
2.6 CONTROLS	A. PROVIDE COMPLETE CONTROLS SYSTEM INCLUDING STEP-DOWN TRANSFORMERS FOR 24 VAC CONTROL, RELAYS, RELAY BOARDS, RELAY BASES, PRINTED CIRCUIT BOARDS, THERMOSTATS, TIMERS, SENSORS, INDICATORS, ACTUATORS, AND OTHER NECESSARY DEVICES REQUIRED FOR COMPLETE INSTALLATION INCLUDING ENCLOSURES FOR EQUIPMENT, LOCATIONS AND TYPES OF THERMOSTATS, TIMERS, AND OTHER CONTROLS EQUIPMENT ARE INDICATED ON DRAWINGS. B. POWER SUPPLIES: TRANSFORMERS WITH CLASS 2 CURRENT-LIMITING TYPE OR OVERCURRENT PROTECTION; LIMIT CONNECTED LOADS TO 80 PERCENT OF RATED CAPACITY. DC POWER SUPPLY SHALL MATCH OUTPUT CURRENT AND VOLTAGE REQUIREMENTS AND BE FULL WAVE RECTIFIER TYPE. C. DEVICES 1. TEMPERATURE SENSORS a. ACCURACY: PLUS OR MINUS 0.36 DEG F OR 0.2 PERCENT AT CALIBRATION POINT.

MECHANICAL SPECS. (CONT):	
b. WIRE: TWISTED SHIELDED PAIR - CABLE.	
c. OUTSIDE AIR SENSORS: WATERTIGHT INLET FITTING, SHIELDED FROM DIRECT SUNLIGHT.	
2. PROGRAMMABLE THERMOSTAT	a. ELECTRIC, SOLID STATE, MICROCOMPUTER-BASED ROOM THERMOSTAT WITH REMOTE SENSOR. b. AUTOMATIC SWITCHING FROM HEATING TO COOLING.
3. LOW VOLTAGE ON OFF THERMOSTATS	a. 24-VAC, BIMETAL-OPERATED, SNAP-ACTING, MERCURY FREE, WITH ANTICIPATION HEATER, SET-POINT ADJUSTMENT, AND 5 DEG F MAXIMUM DIFFERENTIAL.
D. LOW VOLTAGE CONTROL WIRING	1. JACKETED, INDIVIDUALLY SHIELDED TWISTED PAIRS OF STRANDED INSULATED TINNED COPPER CONDUCTORS. 2. STRANDED TINNED COPPER DRAIN WIRE. 3. PLENUM-RATED JACKET FOR PLENUM APPLICATIONS. 4. CONDUCTOR SIZES BASED ON 10% MAXIMUM VOLTAGE DROP. 5. MINIMUM WIRE SIZE: 22 AWG, MAXIMUM WIRE SIZE: 14 GAUGE.
PART 3 - EXECUTION	
3.1 GENERAL	A. UNLESS OTHERWISE DICTATED BY APPLICABLE CODES OR THE AUTHORITY HAVING JURISDICTION, ALL MATERIALS WITHIN RETURN AIR PLENUM MUST BE NONCOMBUSTIBLE AND/OR HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX NOT MORE THAN 50 IN ACCORDANCE WITH ASTM E 84 TESTING. B. PROTECT WORK, EQUIPMENT AND MATERIAL TO PREVENT OBSTRUCTION, DAMAGE OR BREAKAGE. CLOSE PIPE OPENINGS WITH CAPS OR PLUGS DURING INSTALLATION. COVER AND PROTECT EQUIPMENT AGAINST DIRT, WATER, CHEMICAL OR MECHANICAL INJURY. AT THE COMPLETION OF WORK, THOROUGHLY CLEAN ALL EQUIPMENT AND DELIVER THE ENTIRE SYSTEM IN AN UNBLEMISHED CONDITION. C. MAKE CHANGES IN PULLEYS, BELTS, DUCTWORK, AND DAMPERS AS REQUIRED FOR CORRECT BALANCE AS RECOMMENDED BY AIR BALANCE AGENCY. D. PROVIDE PENETRATION FIRESTOPPING THAT IS PRODUCED AND INSTALLED TO MAINTAIN ORIGINAL FIRE-RESISTANCE RATING OF CONSTRUCTION PENETRATED. PENETRATION FIRESTOPPING SYSTEMS SHALL BE COMPATIBLE WITH ONE ANOTHER, WITH THE SUBSTRATES FORMING OPENING, AND WITH PENETRATING ITEMS IF ANY. 1. COORDINATE SIZING OF SLEEVES, OPENINGS CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE PENETRATION FIRESTOPPING. 2. INSTALL PENETRATION FIRESTOPPING TO COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND PUBLISHED DRAWINGS FOR PRODUCTS AND APPLICATIONS INDICATED.
3.2 DUCT INSTALLATION	A. INSTALL DUCTS ACCORDING TO SMACNA STANDARDS. B. PROTECT DUCT INTERIORS FROM MOISTURE, CONSTRUCTION DEBRIS, AND OTHER FOREIGN MATERIALS. C. FABRICATE, ERECT, AND INSTALL DUCTWORK FOR HEATING, VENTILATING, AND AIR CONDITIONING PER SMACNA STANDARDS AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. D. MAKE JOINTS AIR TIGHT ON ALL DUCTWORK. SEAL EXHAUST DUCTWORK WITH EXTERIOR SEAL AS REQUIRED TO ASSURE POSITIVE SEAL. COMPLY WITH SMACNA DUCT CLASS A. E. INSTALL FACTORY FABRICATED FITTINGS FOR CHANGES IN DIRECTION, SIZE, AND SHAPE AND FOR BRANCH CONNECTIONS.
3.3 HANGERS AND SUPPORT INSTALLATION	A. COMPLY WITH SMACNA STANDARDS. B. INSTALL HANGERS AND SUPPORTS WITHIN 24" OF EACH ELBOW AND WITH 48" OF EACH BRANCH INTERSECTION. C. DO NOT USE FASTENERS THAT PENETRATE ROOF DECK.
3.4 MECHANICAL EQUIPMENT	A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3.5 CONTROLS	A. COORDINATE LOCATION OF THERMOSTATS, HUMIDISTATS, AND OTHER EXPOSED CONTROL SENSORS WITH PLANS AND ROOM DETAILS BEFORE INSTALLATION. B. CONNECT AND CONFIGURE EQUIPMENT AND SOFTWARE TO ACHIEVE SEQUENCE OF OPERATIONS. C. LOW VOLTAGE CONTROL WIRING 1. COMPLY WITH NECA 1.

MECHANICAL SPECS. (CONT):	
2. COMPLY WITH TIA/EIA-568-B.1.	
3. BUNDLE AND HARNESS MULTICONDUCTOR INSTRUMENT CABLE IN PLACE OF SINGLE CABLES WHERE SEVERAL CABLES FOLLOW A COMMON PATH.	
4. NUMBER-CODE OR COLOR-CODE CONDUCTORS FOR FUTURE IDENTIFICATION AND SERVICE OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOLERS OR PRESSURE REDUCING VALVES.	
6. INSTALL PLENUM-RATED CABLE IN ENVIRONMENTAL AIR SPACES INCLUDING PLENUM CEILINGS.	
7. WIRING WITHIN ENCLOSURES	a. BUNDLE, LACE, AND TRAIN CONDUCTORS TO TERMINAL POINTS WITH NO EXCESS. b. INSTALL CONDUCTORS PARALLEL, WITH OR AT RIGHT ANGLES TO SIDES AND BACK OF ENCLOSURE.
D. AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER UNIT OPERATION. REMOVE AND REPLACE MALFUNCTIONING UNITS AND RETEST.	
E. TEST EACH SYSTEM FOR COMPLIANCE WITH SEQUENCE OF OPERATION.	
F. OCCUPANCY ADJUSTMENTS, WHEN REQUESTED WITHIN 12 MONTHS OF DATE OF SUBSTANTIAL COMPLETION, PROVIDE ON-SITE ASSISTANCE IN ADJUSTING SYSTEM TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO THREE VISITS TO PROJECT DURING OTHER THAN NORMAL OCCUPANCY HOURS FOR THIS PURPOSE.	
3.6 EQUIPMENT LABEL INSTALLATION	A. INSTALL OR PERMANENTLY FASTEN LABELS ON EACH MAJOR ITEM OF MECHANICAL EQUIPMENT. B. LABEL ACCESS DOORS TO INDICATE THE PURPOSE OF ACCESS DOOR. C. LOCATE EQUIPMENT LABELS WHERE ACCESSIBLE AND VISIBLE. D. WHERE EQUIPMENT, SUCH AS A VAV BOX, IS CONCEALED BY ACCESSIBLE DROP OR LAY-IN CEILING OR OTHER ACCESSIBLE BARRIER, ATTACH LABEL TO CEILING GRID OR A VISIBLE LOCATION TO IDENTIFY LOCATION OF HIDDEN EQUIPMENT.
3.7 TESTING, ADJUSTING, AND BALANCING	A. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THIS SECTION AND THE PROCEDURES CONTAINED IN ONE OF THE FOLLOWING: 1. AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE" 2. NEBB'S "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS." B. COMPLY WITH REQUIREMENTS IN ASHRAE 62.1 SECTION 7.2.2 - "AIR BALANCING." C. AIRFLOW VALUES ARE TO BE ADJUSTED TO PLUS OR MINUS 5% OF DESIGN FLOW. D. SET DAMPERS TO FAIL SAFE POSITION BEFORE TESTING, ADJUSTING, AND BALANCING. E. MARK EQUIPMENT AND BALANCING DEVICES, INCLUDING DAMPER-CONTROL POSITIONS, VALVE POSITION INDICATORS, FAN-SPEED-CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL TO SHOW FINAL SETTINGS. F. ADJUST FANS TO DELIVER DESIGN AIRFLOW WITHIN THE DESIGN FAN SPEED LISTED BY FAN MANUFACTURER. G. AFTER TESTING AND BALANCING IS COMPLETE, OPERATE EACH SYSTEM AND RANDOMLY CHECK MEASUREMENTS TO VERIFY THAT THE SYSTEMS ARE OPERATING IN ACCORDING TO THE FINAL TEST AND BALANCE READINGS.
3.8 OPERATION PRIOR TO ACCEPTANCE	A. CONTRACTOR MAY OPERATE ANY EQUIPMENT PROVIDED THAT THE OPERATION IS SUPERVISED AND THE CONTRACTOR RETAINS FULL RESPONSIBILITY FOR PROPERLY MAINTAINING EQUIPMENT AND THE FULL MANUFACTURER'S WARRANTY REMAINS UNAFFECTED FROM THE TIME OF OWNER'S POSSESSION.
GENERAL NOTES:	
A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.	
B. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.	
C. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.	

GENERAL NOTES (CONT):	
D. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.	
E. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOLERS OR PRESSURE REDUCING VALVES.	
F. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOLERS AND PRESSURE REDUCING VALVES.	
G. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.	
H. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.	
I. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.	
J. ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.	
K. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.	
L. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.	
M. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.	
N. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.	
O. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.	
P. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.	
Q. CONCRETE HOUSEKEEPING PADS TO SUIT MECHANICAL EQUIPMENT SHALL BE SIZED AND LOCATED BY THE MECHANICAL CONTRACTOR. MINIMUM CONCRETE PAD THICKNESS SHALL BE 6 INCHES. PAD SHALL EXTEND BEYOND THE EQUIPMENT A MINIMUM OF 8 INCHES ON EACH SIDE. CONCRETE HOUSEKEEPING PADS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF CONCRETE HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.	
R. ALL MECHANICAL ROOM DOORS SHALL BE A MINIMUM OF 4'-0" WIDE.	
S. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK OR PIPING, COORDINATE DUCTWORK AND PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO FABRICATION OF DUCTWORK, CUTTING OF PIPING, OR FABRICATION OF BEAMS.	
T. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACTOR PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.	

GENERAL NOTES (CONT.):	
U. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.	
V. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.	
W. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.	
X. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.	
Y. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.	
Z. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.	
AA. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.	
AB. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.	
AC. ALL OPENINGS IN FIRE WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.	
AD. ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH ASSOCIATED UNIT SHALL BE PIPED FULL SIZE OF THE UNIT DRAIN OUTLET, WITH "P" TRAP, CLEAN OUT PORT, AND PROVIDED WITH CONDENSATE PUMP ROUTED TO APPROVED NEAREST DRAINAGE TERMINATION POINT. SEE DETAILS SHOWN ON THE DRAWINGS OR THE CONTRACT SPECIFICATIONS FOR DEPTH OF AIR CONDITIONING CONDENSATE TRAP AND PUMP REQUIREMENTS.	
AE. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.	
AF. INSTALL WORK AS INDICATED ON THE DRAWINGS. VERIFY EXACT LOCATION AND ELEVATIONS AT THE SITE. DO NOT SCALE THE DRAWINGS. MAKE NECESSARY CHANGES IN ELEVATION, FITTINGS OR OFFSETS TO ACCOMMODATE OBSTACLES OR INTERFERENCES. ALL DIMENSIONS ARE TO BE FIELD VERIFIED BEFORE START OF WORK.	
AG. CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. IF MODIFICATIONS TO THESE PLANS IS NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH OTHER TRADES IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL FOR THE CHANGES FROM BOTH THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S DESIGNATED REVIEW CONSULTANT. THE CONTRACTOR MUST MAKE NOTE OF ANY FIELD OR COORDINATION CHANGES ON THE INSTALLATION DRAWINGS, AND PROVIDE A SET OF AS-BUILT DRAWINGS ONCE COMPLETE.	
AH. CONTRACTOR TO VERIFY ALL MEASUREMENTS BEFORE ORDERING MATERIALS OR DOING ANY WORK. NO EXTRA COMPENSATION OR CHANGE ORDERS WILL BE ISSUED DUE TO DIFFERENCES BETWEEN THE ACTUAL MEASUREMENT AND THE DIMENSIONS ON THE DRAWINGS. CONTRACTOR SHALL LAY OUT ALL EQUIPMENT PRIOR TO FABRICATION OR INSTALLATION TO ASSURE PROPER FIT AND AVOIDANCE OF OBSTRUCTIONS, AND SHALL THOROUGHLY COORDINATE WORK WITH ALL TRADES AND DETERMINE EXACT ROUTE AND LOCATION OF EACH ELEMENT AND PIECE OF EQUIPMENT BEFORE FABRICATION AND INSTALLATION.	
AI. ALL DEFECTS IN EQUIPMENT OR MATERIALS, OR ERRORS IN THE DRAWINGS DISCOVERED DURING THE PERFORMANCE OF THE WORK SHALL BE REPORTED PROMPTLY TO THE ARCHITECT. IN NO EVENT SHALL THE WORK PROCEED UNTIL DEFECTS AND/OR ERRORS HAVE BEEN RESOLVED.	
AJ. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, RULES, REGULATIONS AND ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK, BOTH ON AND OFF SITE. IF ANY OF THE CONTRACT DOCUMENTS ARE AT VARIANCE THERewith IN ANY RESPECT, CONTRACTOR	

GENERAL NOTES (CONT.):	
SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING.	
AK. THE CONTRACTOR IS TO PROTECT FURNISHINGS, EQUIPMENT, ETC., AND PROPERLY STORE MATERIAL UNTIL COMPLETION OF THE PROJECT.	
AL. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE GENERAL WORK AREA CLEAN AND FREE OF DIRT AND CONSTRUCTION MATERIALS, AND FOR CLEANING THE AREA AT THE END OF EACH DAY. ANY DAMAGE TO THE WALLS, CEILINGS, FLOOR, ETC., THAT OCCURS DURING THE WORK SHALL BE REPAIRED. IF THE SPECIFIC METHOD OF REPAIR IS IN QUESTION, THE CONTRACTOR WILL CONFER WITH THE ARCHITECT BEFORE COMMENCING THE REPAIR.	
AM. ALL MATERIALS AND EQUIPMENT ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.	
AN. MECHANICAL CONTRACTOR SHALL PROVIDE ALTERNATE BID FOR DUCT CLEANING EXISTING TO REMAIN BRANCH AND MAIN DUCTWORK. MECHANICAL CONTRACTOR SHALL VERIFY EXISTING CONDITION OF EXISTING TO REMAIN DUCTWORK AND COORDINATE WITH G.C. ENTRY POINTS FOR DUCT CLEANING PRIOR TO COMMENCEMENT OF WORK.	
MECHANICAL DRAWING LIST:	
SHEET NO.	TITLE
M0.1	MECHANICAL SPECIFICATIONS AND NOTES
M0.2	MECHANICAL LEGEND AND SCHEDULES
M1.1	MECHANICAL DETAILS
M2.1	MECHANICAL DEMOLITION PLAN
M3.1	MECHANICAL PROPOSED PLAN

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02.09.2022 FLOOR PLAN

GENERAL DEMOLITION NOTES:

- WORK SHALL BE PHASED IN SUCH A WAY THAT EXISTING SERVICES SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. WORK SHALL BE RESTRICTED TO THE AREAS BEING DISRUPTED BY THE RENOVATION.
- WORK MAY BE REQUIRED BEYOND AREA INDICATED IN ORDER TO REMOVE ENTIRETY OF SYSTEMS BEING DEMOLISHED.
- EXISTING CONDITIONS WERE TAKEN FROM DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
- COORDINATE DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
- GRAY CONTINUOUS LINE EQUIPMENT/FIXTURES TO REMAIN UNLESS OTHERWISE NOTED.
- DASHED EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED.
- SURFACES THAT WILL BE EXPOSED IN PROPOSED SCOPE TO BE REPAIRED AND PATCHED ACCORDING TO PROPOSED PLANS.

EQUIPMENT ROOF CURB:

MOUNTED MECHANICAL UNITS					
WIDTH OF MECHANICAL UNIT (IN)	<24	25-36	37-48	49-60	>60
MINIMUM CLEARANCE ABOVE SURFACES (IN)	14	18	24	30	48

MECHANICAL DESIGN NOTES:
 FBC 1510.10 MECHANICAL UNITS - ROOF MOUNTED MECHANICAL UNITS SHALL BE MOUNTED ON CURBS RAISED A MINIMUM OF 8 INCHES ABOVE THE ROOF SURFACE, OR WHERE ROOFING MATERIALS EXTEND BENEATH THE UNIT, ON RAISED EQUIPMENT SUPPORTS PROVIDING A MINIMUM CLEARANCE HEIGHT IN ACCORDANCE WITH TABLE 1510.10.

HVAC ABBREVIATIONS:

CFM	AIR FLOW RATE (CUBIC FEET PER MINUTE)
GPM	WATER FLOW RATE (GALLONS PER MIN.)
MBH	1,000 BTU/H
HP	HORSEPOWER
DB	DRY BULB TEMPERATURE (°F)
WB	WET BULB TEMPERATURE (°F)
RH	RELATIVE HUMIDITY (%)
EAT	ENTERING AIR TEMPERATURE (°F)
LAT	LEAVING AIR TEMPERATURE (°F)
EWT	ENTERING WATER TEMPERATURE (°F)
LWT	LEAVING WATER TEMPERATURE (°F)
SP	STATIC PRESSURE (IN. W.G.)
ESP	EXTERNAL STATIC PRESSURE (IN. W.G.)
TSP	TOTAL STATIC PRESSURE (IN. W.G.)
FLA	FULL LOAD AMPS
LRA	LOCKED ROTOR AMPS
MCA	MINIMUM CIRCUIT AMPS
MOP	MAXIMUM OVERCURRENT PROTECTION
FPM	FEET PER MINUTE
RPM	REVOLUTIONS PER MINUTE
APD	AIR PRESSURE DROP (IN. W.G.)
WPD	WATER PRESSURE DROP (FT. H2O)
PRV	PRESSURE REDUCING VALVE (PSIG)
RV	RELIEF VALVE (PSIG)
PSIG	POUNDS PER SQUARE INCH
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
EXH	EXHAUST AIR
RFA	RELIEF AIR
CC	COOLING COIL
HC	HEATING COIL
PHC	PREHEAT COIL
RHC	REHEAT COIL
ΔT	DELTA T, TEMP. DIFFERENCE, °F
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CW	CONDENSER SUPPLY
CR	CONDENSER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
LPS	LOW PRESSURE STEAM, PSIG
LPC	LOW PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM, PSIG
HPS	HIGH PRESSURE STEAM, PSIG

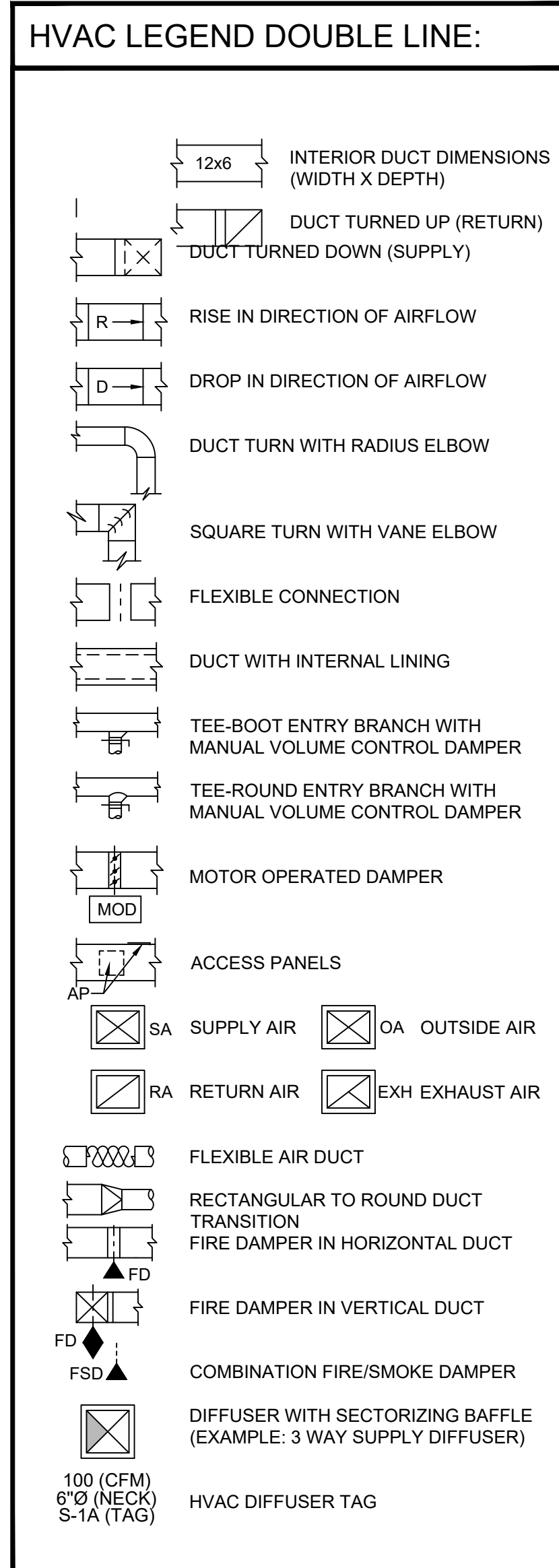
HATCH LEGEND:

	NOT IN SCOPE OF CONTRACT
	NOT IN SCOPE OF WORK FOR INDICATED DISCIPLINE (MECHANICAL)
	AREA IN SCOPE OF WORK (KEY PLAN)

MINIMUM DUCT INSULATION R-VALUES:

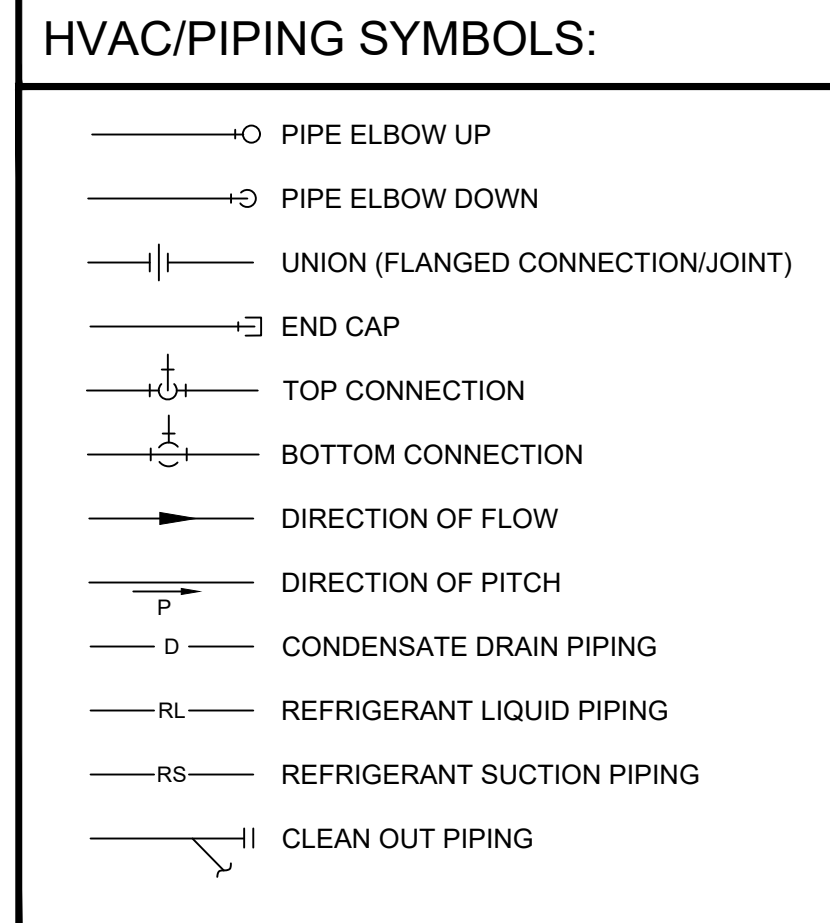
LOCATION (1)	SUPPLY DUCT	RETURN DUCT
EXTERIOR OF BUILDING	R-6	R-4.2
VENTILATED ATTIC	R-6	R-4.2
UNVENTED ATTIC ABOVE INSULATED CEILING	R-6	R-4.2
UNVENTED ATTIC WITH ROOF INSULATION	R-4.2	NONE
UNCONDITIONED SPACES (2)	R-4.2	R-4.2
INDIRECTLY CONDITIONED SPACES (3)	NONE	NONE
CONDITIONED SPACES	NONE	NONE
BURIED	R-4.2	NONE

NOTES:
 1. TABLE INFORMATION GATHERED FROM 2017 FLORIDA BUILDING CODE - ENERGY CONSERVATION TABLE C403.2.9.1 (6TH EDITION).
 2. INCLUDES CRAWL SPACES, BOTH VENTILATED AND NONVENTILATED.
 3. INCLUDES RETURN AIR PLENUMS WITH OR WITHOUT EXPOSED ROOFS ABOVE.



HVAC SYMBOLS:

⊖	THERMOSTAT CONTROL
⊖S	TEMPERATURE SENSOR
⊖C	CO2 SENSOR
⊖HS	HUMIDITY SENSOR
⊖SD	SMOKE DETECTOR
⊖AT	AVERAGING TEMPERATURE SENSOR
⊖	EQUIPMENT DESIGNATION
⊖-⊖	3/4" DOOR UNDERCUT
⊖-⊖	OPEN VAULT DOOR WITH BARS



MINIMUM PIPE INSULATION THICKNESS:

FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (IN)				
	CONDUCTIVITY BTU*IN./(H*FT²*F)	MEAN RATING TEMPERATURE, °F	< 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	≥ 8
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5

NOTES:
 1. TABLE INFORMATION GATHERED FROM 2017 FLORIDA BUILDING CODE - ENERGY CONSERVATION TABLE C403.2.10 (6TH EDITION).
 2. FOR PIPING SMALLER THAN 1 1/2 INCHES AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH.

DUCT SIZING GUIDE

SUPPLY DUCT (0.08SP)				RETURN DUCT (0.05SP)			
ROUND DUCT		SQUARE DUCT		ROUND DUCT		SQUARE DUCT	
CFM RANGE	SIZE (IN)	CFM RANGE	SIZE (IN)	CFM RANGE	SIZE (IN)	CFM RANGE	SIZE (IN)
1 - 100	6	1 - 125	6 X 6	1 - 75	6	1 - 100	6 X 6
101 - 210	8	126 - 260	8 X 8	76 - 160	8	101 - 200	8 X 8
211 - 395	10	261 - 470	10 X 10	161 - 290	10	201 - 365	10 X 10
396 - 625	12	471 - 760	12 X 12	291 - 470	12	366 - 595	12 X 12
626 - 910	14	761 - 1,145	14 X 14	471 - 710	14	596 - 895	14 X 14
911 - 1,300	16	1,146 - 1,635	16 X 16	711 - 1,010	16	896 - 1,275	16 X 16
1,301 - 1,800	18	1,636 - 2,235	18 X 18	1,011 - 1,375	18	1,276 - 1,745	18 X 18
1,801 - 2,325	20	2,236 - 2,955	20 X 20	1,376 - 1,815	20	1,746 - 2,310	20 X 20

NOTES:
 1. FOR RECOMMENDED SQUARE SIZE DUCT AN APPROXIMATE EQUIVALENT RECTANGULAR CROSS SECTIONAL AREA IS ALSO ACCEPTABLE FOR ALTERNATIVE RECTANGULAR DUCT DIMENSIONS. DO NOT EXCEED A 3:1 DIMENSION RATIO.
 2. ROUND AND SQUARE DUCT DIMENSIONS HAVE BEEN SIZED BASED ON 0.08 INCHES OF FRICTION HEAD LOSS FOR SUPPLY DUCT AND 0.05 FOR RETURN DUCT.

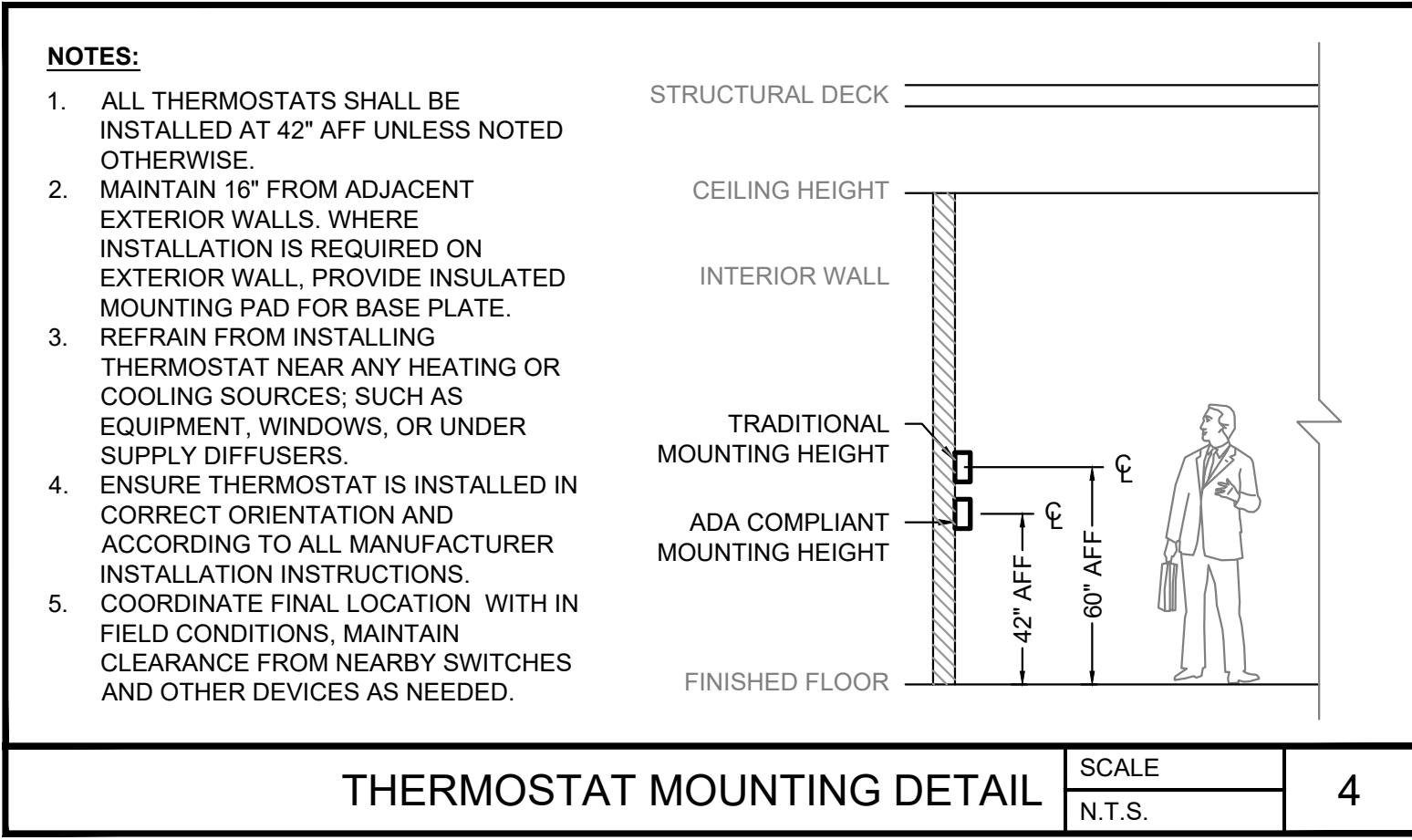
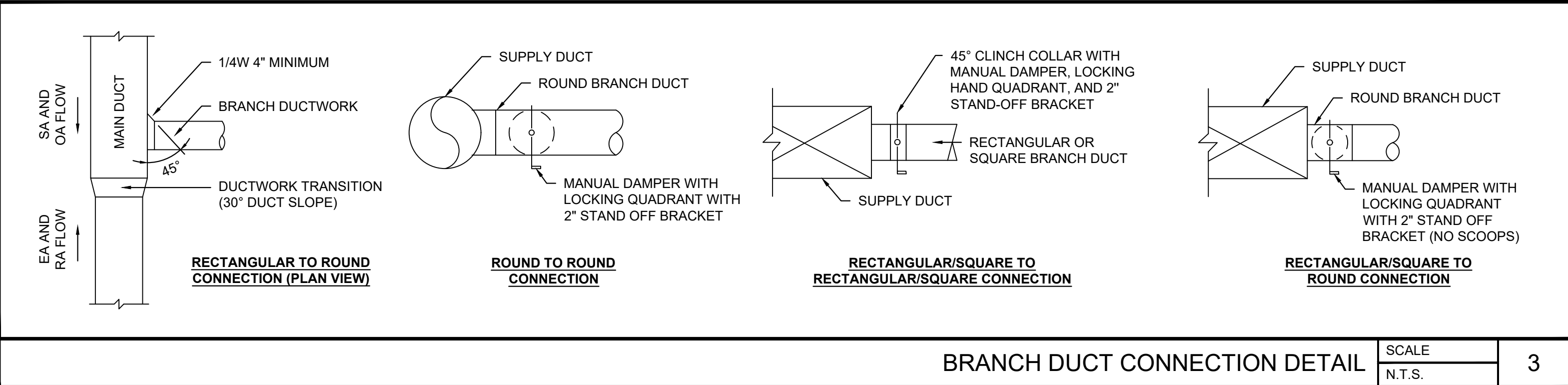
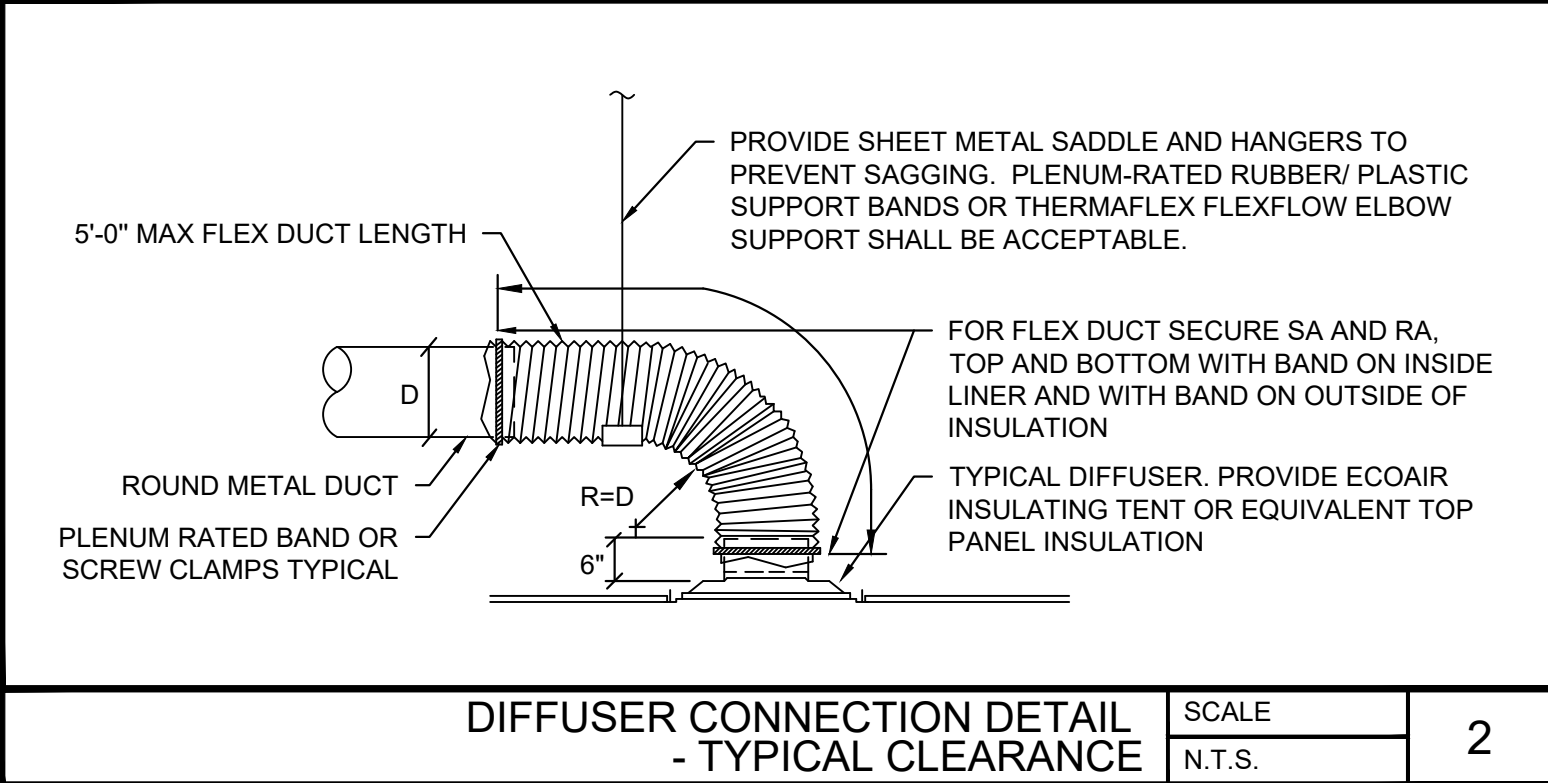
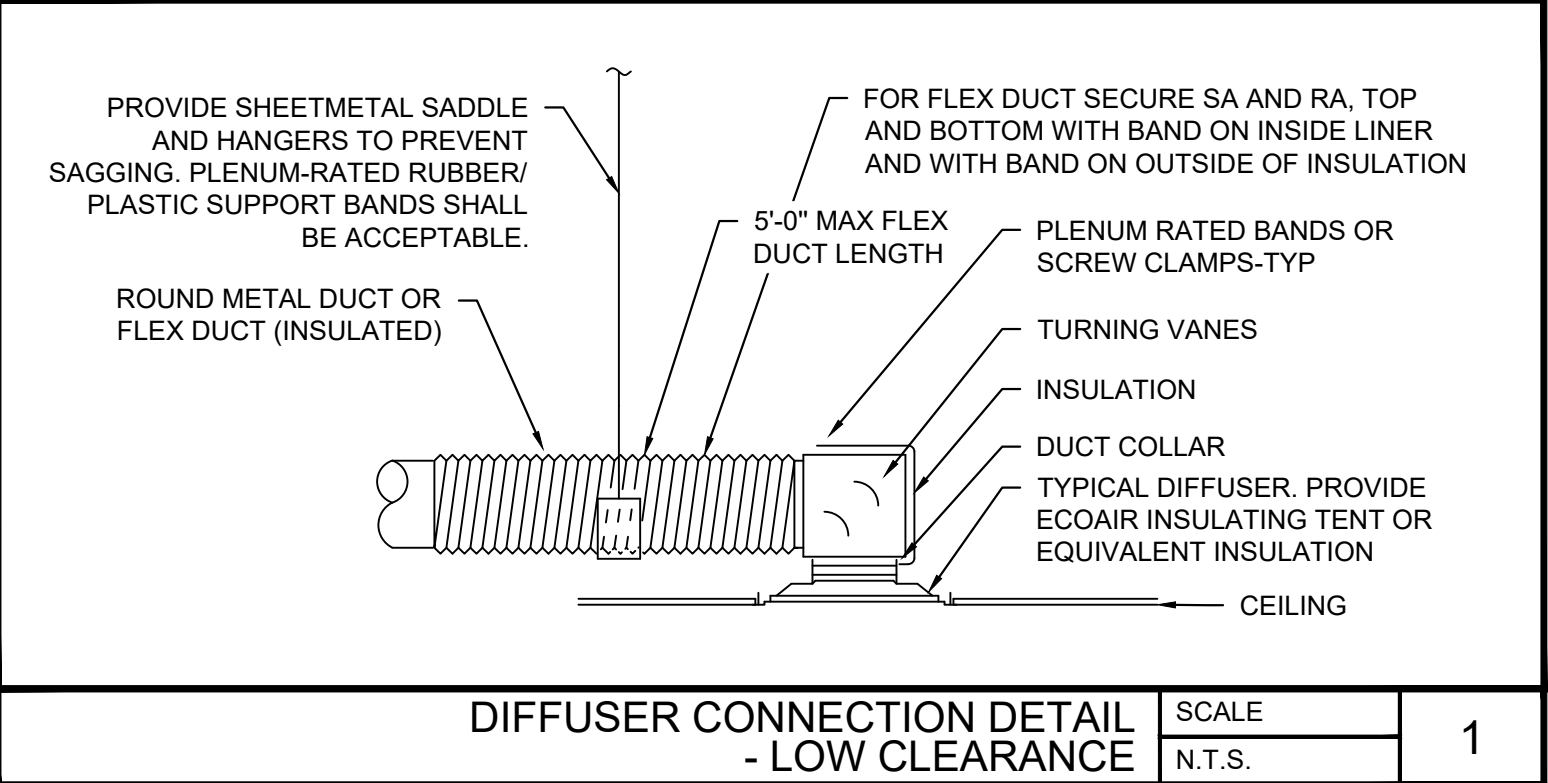
GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

MARK	NECK	MAX CFM	DESCRIPTION
S-1A	6" Ø	110	ARCHITECTURAL SQUARE PANEL CEILING SUPPLY AIR DIFFUSER - STEEL CONSTRUCTION, MODULE SIZE 24X24, CURVED BACK-PAN DESIGN; TITUS OMNI (BORDER TYPE 3; LAY-IN FULL FACE FLAT T-BAR CEILING GRID).
S-1B	8" Ø	210	
S-1C	10" Ø	330	
S-1D	12" Ø	480	
S-1E	14" Ø	650	
S-1F	6" Ø	110	
S-2	SIZE AS SHOWN ON DRAWINGS		DOUBLE DEFLECTION HEAVY DUTY SIDEWALL SUPPLY AIR REGISTER - 1/2" FRONT, 3/4" REAR BLADE SPACING, FRONT BLADES PARALLEL TO SHORT DIMENSION, ALL STEEL CONSTRUCTION; TITUS 300RS-HD, W/OBD.
S-3	SIZE AS SHOWN ON DRAWINGS		24X24 THERMAL VARIABLE AIR VOLUME PLAQUE DIFFUSER, TITUS T3SQ OR EQUIVALENT IS ACCEPTABLE. SET DIFFUSER TO MAINTAIN MAXIMUM 77° F SPACE TEMPERATURE. COORDINATE WITH ELECTRICAL CONTRACTOR POWER MODULE AND ACCESSORY REQUIREMENTS. PROVIDE OPTIONAL PRESSURE RELIEF RING FOR 10" AND 12" NECK SIZES.
S-4A	SIZE AS SHOWN ON DRAWINGS	35 CFM/FT	MODULINEAR SLOT SUPPLY DIFFUSER - 1" SLOT, CONCEALED SURFACE MOUNT. DESIGN MAKE; TITUS MLTI-39, PROVIDE WITH INSULATED PLENUM BOX. TAG; S-4A (1SLOT), S-4B (2SLOT), S-4C (3SLOT)
S-4B	SIZE AS SHOWN ON DRAWINGS	55 CFM/FT	
S-4C	SIZE AS SHOWN ON DRAWINGS	85 CFM/FT	
R-1A	22" X 10"	800	EGGCRATE RETURN AIR GRILLE - CORE OF 1/2"x1/2"x1" ALUMINUM GRID, R-1A-24X12, R-1B-24X24, R-1C-48X24, R-1D-10X10, PANEL SIZE; TITUS 50F. (PROVIDE SQUARE TO ROUND TRANSITION AS NEEDED)
R-1B	22" X 22"	2,000	
R-1C	22" X 46"	4,000	
R-1D	10" X 10"	400	
R-2	SIZE AS SHOWN ON DRAWINGS		SINGLE DEFLECTION HEAVY DUTY RETURN/EXHAUST AIR REGISTER - BLADES AT 1/2" O.C., 0° DEFLECTION, BLADES PARALLEL TO LONG DIMENSION, STEEL CONSTRUCTION; TITUS 355ZRL, WITH OBD.
R-3A	SIZE AS SHOWN ON DRAWINGS	35 CFM/FT	MODULINEAR SLOT RETURN DIFFUSER - 1" SLOT, CONCEALED SURFACE MOUNT. DESIGN MAKE; TITUS MLTRI-39, PROVIDE OPTIONAL PLENUM BOX. TYPICAL 3 SLOT, UNLESS OTHERWISE NOTED IN TAG; R-3A (1SLOT), R-3B (2SLOT), R-3C (3SLOT).
R-3B	SIZE AS SHOWN ON DRAWINGS	55 CFM/FT	
R-3C	SIZE AS SHOWN ON DRAWINGS	85 CFM/FT	
E-1	10" X 10"	210	EGGCRATE RETURN AIR GRILLE - CORE OF 1/2"x1/2"x1" ALUMINUM GRID, E-1 10X10 PANEL SIZE; TITUS 50F (PROVIDE SQUARE TO ROUND TRANSITION AS NEEDED)
DG-1	SIZE AS SHOWN ON DRAWINGS		ALUMINUM DOOR RETURN GRILLE WITH SIGHT-PROOF BLADES PARALLEL TO LONG DIMENSION; TITUS CT-700 (ALTERNATIVE DIMENSIONS ACCEPTABLE WITH EQUIVALENT CORE AREA)

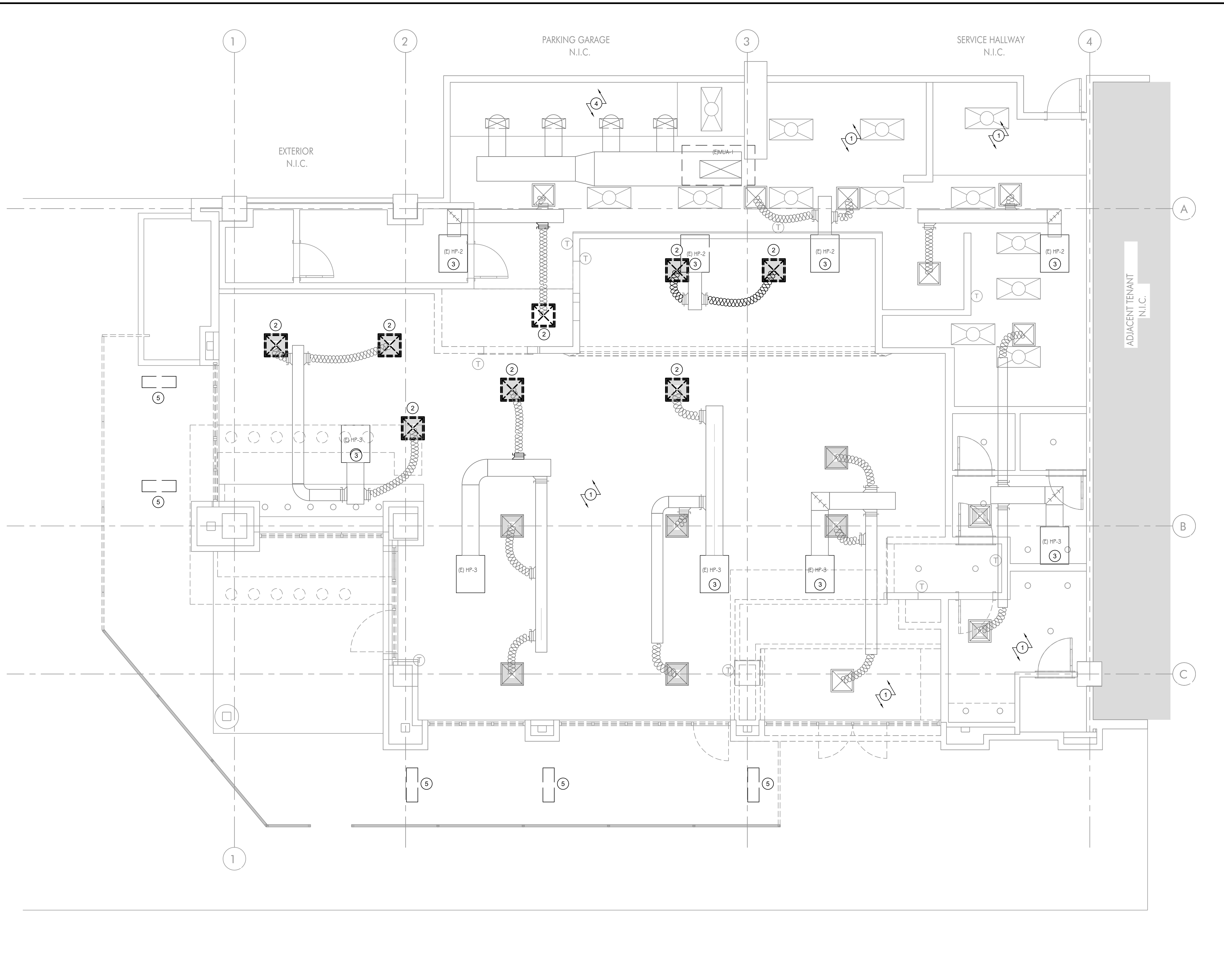
NOTES:
 1. FURNISH WITH STANDARD WHITE BAKED ENAMEL FINISH (#26 WHITE), UNO.
 2. FURNISH "RAPID-MOUNT" FRAMES FOR S-1 & R-1 DEVICES LOCATED IN DRYWALL CEILINGS.
 3. ITEMS GRAYED OUT ARE NOT USED IN THIS PROJECTS'S SCOPE OF WORK (PART OF CLIENT STANDARDS).
 * BASIS OF DESIGN PRODUCTS ARE INDICATED FOR REFERENCE ONLY. COMPARABLE PRODUCTS WILL BE ACCEPTED PROVIDED COMPLIANCE WITH TECHNICAL SPECIFICATION REQUIREMENTS.



BN1580 JOJO'S SHAKE BAR
 15037 N. SCOTTSDALE ROAD SUITE #150
 SCOTTSDALE, AZ
 02.09.2022 FLOOR PLAN



DETAILS NOTE: NOT ALL DETAILS ON THIS SHEET MAY APPLY TO THIS PROJECT. REFER TO PROJECT MECHANICAL PLANS FOR DETAILS APPLICABLE TO THIS PROJECT.



PLAN SHEET NOTES:

- ① EXISTING SUPPLY DIFFUSERS AND RETURN GRILLES ARE TO REMAIN UNLESS NOTED OTHERWISE.
- ② REMOVE EXISTING SUPPLY DIFFUSER. SALVAGE AND PROTECT FOR RELOCATION. REUSE EXISTING DUCTWORK. ADJUST CONNECTIONS AS NEEDED PER NEW DIFFUSER LOCATION.
- ③ EXISTING HVAC UNITS AND ALL ASSOCIATED COMPONENTS (MAIN DUCTWORK, THERMOSTATS, ETC.) ARE TO REMAIN.
- ④ EXISTING KITCHEN HOOD, EXHAUST AND MAKE UP AIR SYSTEM ARE TO REMAIN.
- ⑤ REMOVE EXISTING SPACE HEATERS. CUT AND CAP EXISTING NATURAL GAS LINES AT THE MAIN.

PLUMBING DEMOLITION PLAN SCALE 1/4" = 1'-0"

MIDDLETON ENGINEERING

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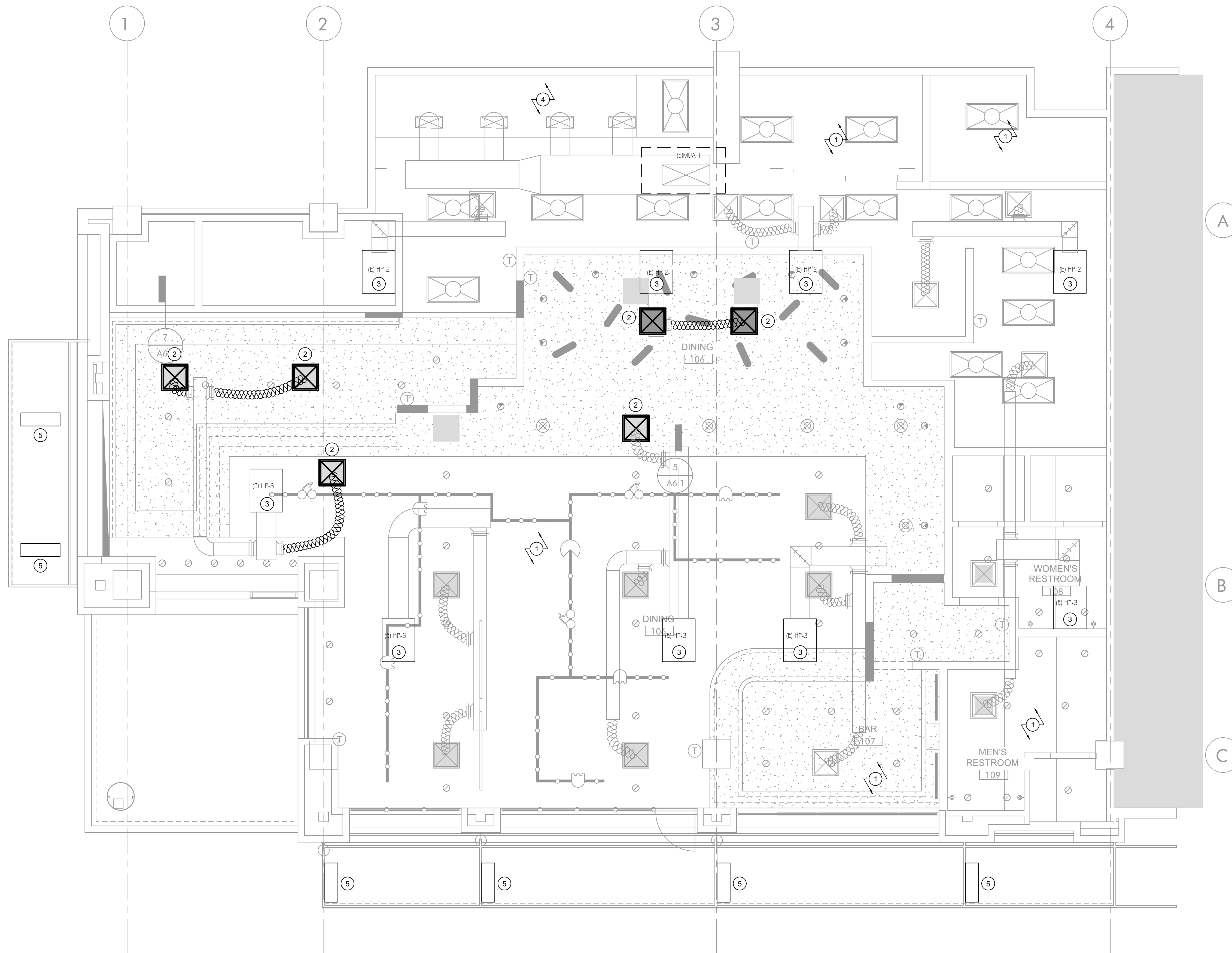
15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

02.09.2022 FLOOR PLAN

MECHANICAL DEMOLITION PLAN

M2.1
BN1580

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PLAN SHEET NOTES:

- ① EXISTING SUPPLY DIFFUSERS AND RETURN GRILLES ARE TO REMAIN UNLESS NOTED OTHERWISE.
- ② REINSTALL RELOCATED SUPPLY DIFFUSER. REUSE EXISTING DUCTWORK. ADJUST CONNECTIONS AS NEEDED PER NEW DIFFUSER LOCATION.
- ③ EXISTING HVAC UNITS AND ALL ASSOCIATED COMPONENTS (MAIN DUCTWORK, THERMOSTATS, ETC.) ARE TO REMAIN.
- ④ EXISTING KITCHEN HOOD, EXHAUST AND MAKE UP AIR SYSTEM ARE TO REMAIN.
- ⑤ INSTALL NEW BROMIC 200 SERIES 2 KW ELECTRIC SPACE HEATER. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION.

PLUMBING PROPOSED PLAN

SCALE
1/4" = 1'-0"

M MIDDLETON
ENGINEERING

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BN1580 JOJO'S SHAKE BAR

15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

02.09.2022 FLOOR PLAN

MECHANICAL PROPOSED
PLAN

M3.1
BN1580

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POWER SYMBOLS:

NOTE: A COMPLETE LIST OF RECEPTACLE SYMBOLS IS SHOWN FOR THE DUPLEX RECEPTACLE ONLY. OTHER RECEPTACLE SYMBOLS WILL FOLLOW THE SAME SHADING CONVENTION AS THE DUPLEX RECEPTACLE. UNO.

CENTER HATCH: ISOLATED GROUND RECEPTACLE
 OUTER HATCH: GFCI RECEPTACLE
 RIGHT HATCH: CONTROLLED RECEPTACLE

	20A, 125V, RECEPTACLE (NEMA 5-20R), WALL MTD (SIMPLEX LEFT, DUPLEX CENTER, QUAD RIGHT) TR = TAMPER RESISTANT U = USB OUTLET WP = WEATHERPROOF WR = WEATHER RESISTANT
	20A, 125V, IG DUPLEX RECEPTACLE (NEMA 5-20R), WALL MTD
	20A, 125V, GFCI DUPLEX RECEPTACLE (NEMA 5-20R), WALL MTD
	20A, 125V, CONTROLLED DUPLEX RECEPTACLE (NEMA 5-20R), WALL MTD D-DUAL SWITCHED
	20A, 125V, RECEPTACLE ON EMERGENCY CIRCUIT (NEMA 5-20R), WALL MTD (SIMPLEX LEFT, DUPLEX CENTER, QUAD RIGHT)
	20A, 125V, RECEPTACLE (NEMA 5-20R), FLOOR MTD (SIMPLEX LEFT, DUPLEX CENTER, QUAD RIGHT)
	20A, 125V, RECEPTACLE ON EMERGENCY CIRCUIT (NEMA 5-20R), FLOOR MTD (SIMPLEX LEFT, DUPLEX CENTER, QUAD RIGHT)
	20A, 125V, RECEPTACLE (NEMA 5-20R), CEILING MTD (SIMPLEX LEFT, DUPLEX CENTER, QUAD RIGHT)
	20A, 125V, RECEPTACLE ON EMERGENCY CIRCUIT (NEMA 5-20R), CEILING MTD (SIMPLEX LEFT, DUPLEX CENTER, QUAD RIGHT)
	MULTI-SERVICE, FLOOR BOX, FLUSH MNT (SEE SPECS OR NOTES) FB = FLOOR BOX FF = FURNITURE FEED
	MULTI-SERVICE, POKE-THRU, 2 HR. FIRE-RATED, FLUSH MNT (SEE SPECS OR NOTES) PT = POKE-THRU FF = FURNITURE FEED
	MULTI-SERVICE, CEILING BOX WITH PROJECTOR MOUNT (SEE SPECS OR NOTES)
	MULTI-SERVICE, WALL BOX, RECESSED MNT (SEE SPECS OR NOTES)
	SPECIAL PURPOSE RECEPTACLE (SEE EQUIPMENT SCHEDULE OR NOTES) (WALL MNT LEFT, FLOOR MTD RIGHT)
	SPECIAL PURPOSE RECEPTACLE ON EMERGENCY CIRCUIT (SEE EQUIPMENT SCHEDULE OR NOTES) (WALL MNT LEFT, FLOOR MTD RIGHT)
	60A, 480V, 3PH, WELDING RECEPTACLE, WALL MTD
	DROP CORD (SEE SPECS OR NOTES)
	POWER POLE (SEE SPECS OR NOTES)
	RECEPTACLE RACEWAY / PLUG MOLD
	JUNCTION BOX, WALL MTD
	JUNCTION BOX WP = WEATHERPROOF
	JUNCTION BOX, FLOOR MTD
	JUNCTION BOX, EXPLOSION PROOF
	SAFETY SWITCH, 30A, 3-POLE, NON-FUSED
	SAFETY SWITCH, 30A, 3-POLE, FUSED @ 20A
	STARTER OR MOTOR CONTROLLER
	STARTER, COMBINATION W/ DISC. SWITCH
	TRANSFORMER
	ELECTRICAL PANEL / ENCLOSURE AS NOTED ON PLAN DRAWINGS (SURFACE MTD LEFT, RECESSED MTD RIGHT)
	ELECTRIC UTILITY METER
	GROUNDING BUSBAR (SEE SPECS OR NOTES)
	UTILITY POWER POLE

LIGHTING SYMBOLS:

NOTE: REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPES AND SENSOR SCHEDULE FOR SENSOR TYPES. REFER TO PLAN DRAWINGS FOR ADDITIONAL SYMBOLS.

A:	CAPITAL LETTER ADJACENT TO FIXTURE = TYPE
a:	LOWERCASE LETTER = SWITCHING GROUP
EM:	EMERGENCY LIGHTING IS DESIGNATED BY AN "EM" ADJACENT TO THE FIXTURE AND/OR A "HALF SHADED" OR "FULL SHADED" FIXTURE SYMBOL
NL:	NIGHT LIGHTING (UNSWITCHED FIXTURE)
⚡	SWITCH, 20A, 120/277V, TOGGLE TYPE , U.N.O. a,b,c,... = SWITCHING GROUP BLANK = SINGLE POLE 2 = DOUBLE POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER SWITCH K = SINGLE POLE KEY OPERATED M = MOTOR RATED MA = MAINTAINED CONTACT MO = MOMENTARY CONTACT P = SINGLE POLE W/ PILOT LIGHT P2 = DOUBLE POLE W/ PILOT LIGHT RC = REMOTE CONTROL T = TIMER OPERATED SWITCH WP = WEATHERPROOF F = FAN SPEED CONTROLLER
⚡	OCCUPANCY SENSOR, WALL MTD
⚡	LOW VOLTAGE DIGITAL SWITCH, WALL MTD
DP	LIGHTING CONTROL DEVICE DP = DIMMABLE POWER PACK (ON/OFF WITH DIMMING) PP = POWER PACK (ON/OFF) RP = AUX. RELAY PACK (ON/OFF) GW = GATEWAY PS = POWER SUPPLY BR = BRIDGE LC = LIGHTING CONTACTOR TC = TIME CLOCK MS = MOTION SENSOR PC = PHOTOCELL
PL	PLUG LOAD CONTROLLER (ON/OFF)
⚡	EMERGENCY POWER CONTROLLER
⚡	OCCUPANCY SENSOR, CORNER MTD
⚡	OCCUPANCY SENSOR, CEILING MTD
⚡	DAYLIGHT SENSOR, CEILING MTD
⚡	COMBINATION OCCUPANCY / DAYLIGHT SENSOR, CEILING MTD
	2'X4' LAY-IN TROFFER
	1'X2' LAY-IN TROFFER
	2'X2' LAY-IN TROFFER
HO	STRIP/CHANNEL FIXTURE
	DOWNLIGHT, CEILING MTD
	WALL WASHER, CEILING MTD
	LIGHT FIXTURE, CEILING MTD
	LIGHT FIXTURE, WALL MTD
	WALL PACK
	SINGLE HEAD AREA LIGHT FIXTURE, POLE MTD
	TWIN HEAD AREA LIGHT FIXTURE, POLE MTD
	EXHAUST FAN
	EMERGENCY WALL PACK (BUG EYE) (WALL MTD LEFT, CEILING MTD RIGHT)
	EXIT SIGN, SINGLE FACE (ARROW INDICATES DIRECTION OF EGRESS) (WALL MTD LEFT, CEILING MTD RIGHT)
	EXIT SIGN, DOUBLE FACE (ARROW INDICATES DIRECTION OF EGRESS) (WALL MTD LEFT, CEILING MTD RIGHT)
	EXIT SIGN W/ COMBINATION EMERGENCY LIGHT, SINGLE FACE (ARROW INDICATES DIRECTION OF EGRESS) (WALL MTD LEFT, CEILING MTD RIGHT)

SPECIAL SYSTEMS SYMBOLS:

NOTE: UNLESS NOTED OTHERWISE, PROVIDE OVERSIZED JUNCTION BOX AND 1" EMPTY CONDUIT WITH PLASTIC INSULATING BUSHINGS AND PULL STRING STUBBED MIN. 6" INTO ACCESSIBLE CEILING SPACE. COORDINATE WITH LV CONTRACTOR FOR FINAL REQUIREMENTS.

	TELEPHONE OUTLET, WALL MTD X = NUMBER OF TELEPHONE PORTS
	DATA OUTLET, WALL MTD Y = NUMBER OF DATA PORTS
	COMBINATION TELE/DATA OUTLET, WALL MTD X = NUMBER OF TELEPHONE PORTS Y = NUMBER OF DATA PORTS
	TELEPHONE OUTLET (FLOOR MTD LEFT, CEILING MTD RIGHT)
	DATA OUTLET (FLOOR MTD LEFT, CEILING MTD RIGHT)
	COMBINATION TELE/DATA OUTLET (FLOOR MTD LEFT, CEILING MTD RIGHT)
	WIRELESS ACCESS POINT (CEILING MTD LEFT, WALL MTD RIGHT)
	TELEPHONE BACKBOARD (TBB)
	INTERCOM OUTLET
	INTERCOM STATION BLANK = REMOTE M = MASTER
	AUDIO / VIDEO DEVICE (WALL MTD LEFT, CEILING MTD RIGHT) AV = AUDIO / VIDEO OUTLET M = MICROPHONE OUTLET SM = SECURITY MONITOR OUTLET TV = TELEVISION OUTLET V = VOLUME CONTROL
	SOUND SYSTEM AMPLIFIER
	SPEAKER (WALL MTD LEFT, CEILING MTD RIGHT)
	AUDIBLE NOTIFICATION DEVICE B = BELL C = CHIME G = GONG
	BUZZER
	BELL & BUZZER COMBINATION
	AUDIBLE NOTIFICATION DEVICE H = HORN S = SIREN
	AUXILIARY SYSTEM DEVICE BT = BELL RINGING TR = TRANSFORMER R = RELAY D = ELECTRIC DOOR OPENER LV = LOW VOLTAGE TRANSFORMER
	ANNUNCIATOR
	INDICATOR LIGHT (WALL MTD LEFT, CEILING MTD RIGHT) BL = BURGLAR ALARM LIGHT
	CLOCK M = MASTER DF = DOUBLE FACE S = COMBINATION SPEAKER
	SECURITY DEVICES DC = DOOR CONTACT GB = GLASS BREAK DETECTOR HD = HEAT DETECTOR HU = HOLD-UP BUTTON KP = KEY PAD MD = MOTION DETECTOR PB = PANIC BUTTON PVM = PUBLIC VIEW MONITOR SD = SOUND DETECTOR SEC = SECURITY CONTROL PANEL VS = VIBRATION SENSOR WC = WINDOW CONTACT
	ACCESS CONTROL DEVICE ACP = ACCESS CONTROL PANEL CR = CARD READER ES = ELECTRIC STRIKE ML = MAGNETIC LOCK PS = PROXIMITY SENSOR PWR = POWER SUPPLY RX = REQUEST EXIT PUSH BUTTON
	SECURITY CAMERA (WALL MTD LEFT, CEILING MTD RIGHT) PTZ = PAN/TILT/ZOOM BX = BOX D = MINI DOME BL = BULLET WP = WEATHERPROOF
	PUSHBUTTON STATION (BUTTONS REPRESENTED BY SOLID DOTS)
	NORMAL / EMERGENCY CALL BUTTON
	PUSH BUTTON
	THERMOSTAT (WALL MTD LEFT, CEILING MTD RIGHT)

RACEWAY SYMBOLS:

	HOMERUN CIRCUIT TO PANELBOARD
	LOW VOLTAGE CABLE
	CONDUIT BURIED
	CONDUIT CONCEALED
	CONDUIT EXPOSED
	FLEXIBLE CONDUIT
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT SEAL-OFF
	CONDUIT TEE BODY
	CONDUIT EL BODY
	CONDUIT CAP
	CONDUIT SLEEVE WITH BUSHINGS
	PULL BOX
	HAND HOLE

ABBREVIATIONS

A	AMPERE
AF	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
BLDG	BUILDING
BRKR	BREAKER
CONDUIT	CONDUIT
CLG	CIRCUIT
CEILING	CEILING
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
CTR	CENTER
EA	EACH
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
EM	EMERGENCY
EOL	ELECTRONIC OVERLOAD
FDR	FEEDER
FLA	FULL LOAD AMPS
GEC	GROUNDING ELECTRODE CONDUCTOR
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
HOA	HAND-OPERATED AUTO
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATT
L.S.I.G.	LONG, SHORT, INSTANTANEOUS, GROUND FAULT TRIP
LTG	LIGHTNING
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MFS	MAXIMUM FUSE SIZE
MG	MAIN GROUNDING BUSBAR
MLO	MAIN LUG ONLY
MCCB	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	OVERCURRENT PROTECTION DEVICE
OH	OVERHEAD
P	POLE
PH	PHASE
PNL	PANEL
PWR	POWER
RECEP	RECEPTACLE
RM	ROOM
SCCR	SHORT CIRCUIT CURRENT RATING SWITCH
SW	SWITCH
SWBR	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELEPHONE BACKBOARD
TELECO	TELEPHONE COMPANY
TELE	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VF	VERIFY IN FIELD
W	WITH
WI	WIRE
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER

GENERAL NOTES:

- PRE-BID SITE VISIT: CONTRACTOR PROPOSING TO UNDERTAKE WORK UNDER THIS DIVISION SHALL VISIT THE SITE OF THE WORK AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT EFFECT THE WORK AND COST THEREOF AND EXAMINE THE DRAWINGS AS RELATED TO THE SITE CONDITIONS. VISIT THE SITE MAY BE UNLITERALLY NOT PERMITTED TO SUBMIT A BID IF THE OWNER SO DESIGNATES.
- BID TERMS AND CONDITIONS: THE ELECTRICAL CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS AND SPECIFICATIONS FROM THE GENERAL CONTRACTOR PRIOR TO BID. CONSIDERATION WILL NOT BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE AMOUNT OF WORK TO BE PERFORMED. TENDER OF PROPOSAL SHALL CONVEY FULL AGREEMENT TO THE TERMS AND CONDITIONS INDICATED IN THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES OR OMISSIONS FOUND IN THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING TO OBTAIN CLARIFICATION FROM THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING PROPOSAL FOR WORK, WHERE CLARIFICATION CANNOT BE PROVIDED PRIOR TO BID, THE CONTRACTOR SHALL ASSUME THE MORE EXPENSIVE METHOD FOR THE BID, WITHOUT FORMAL MATERIALIZATION, THE ARCHITECT AND OWNER RESERVE THE RIGHT TO REQUIRE THE MORE RESTRICTIVE SPECIFICATION.
- EXCLUSIONS: MATERIAL AND LABOR EXCLUDED BY THE ELECTRICAL CONTRACTOR SHALL NOT RELIEVE THE GENERAL CONTRACTOR FROM PROVIDING SAME.
- COMPLETE SYSTEMS: FURNISH ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, SUPPLEMENTARY EXPENSES AND SERVICES REQUIRED TO CONSTRUCT, INSTALL, AND MODIFY THE ELECTRICAL SYSTEMS AS HEREIN SPECIFIED AND SHOWN ON THESE DRAWINGS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM. COORDINATE WORK TO BE PERFORMED OR INSTALLED BY OTHERS AFFECTING THE ELECTRICAL WORK AND FURNISH AND INSTALL ALL NECESSARY STEEL SHAPES, BLOCKING, ANCHORS, SLEEVES, HANGERS, ETC. FOR ATTACHING OR CONNECTING ELECTRICAL WORK TO RELATED WORK OF OTHER TRADES. ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN OR NOT INDICATED IN THE DRAWINGS, WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT, OR LABOR REQUIRED TO PROVIDE A COMPLETE AND PROPERLY OPERATING INSTALLATION.
- PERMITS: OBTAIN ALL NECESSARY PERMITS, LICENSES, AND INSPECTIONS AS REQUIRED BY ANY OF THE FOREGOING AUTHORITIES AND PAY FOR ALL OTHER COSTS IN CONNECTION WITH THE WORK.
- INSPECTIONS: CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED AND APPROVED BY THE ELECTRICAL INSPECTOR AND/OR ARCHITECT/ENGINEER.
- REGULATIONS: ALL ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST ADOPTED NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL BUILDING CODES, RULES, REGULATIONS AND AUTHORITIES HAVING JURISDICTION.
- WORKMANSHIP: ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH APPLICABLE NECA STANDARDS SUBJECT TO THE APPROVAL OF THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE. RACEWAY, FIXTURES, AND WIRING DEVICES SHALL BE PROPERLY ALIGNED, LEVELED, PLUMBED AND SUPPORTED. RACEWAY SHALL BE GROUPED AND INSTALLED IN RUNS WHICH ARE PARALLEL AND PERPENDICULAR WITH BUILDING LINES.
- COORDINATION: PRIOR TO COMMENCEMENT OF WORK, EXAMINE ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND COORDINATE WITH ALL OTHER TRADES INCLUDING GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, LOW VOLTAGE CONTRACTOR, AND SECURITY CONTRACTOR IN ORDER TO BECOME FAMILIAR WITH ALL ASPECTS OF THE DESIGN AFFECTING THE ELECTRICAL WORK AND TO CONFIRM SITE SPECIFIC INSTALLATION REQUIREMENTS. REFER TO ARCHITECT, MECHANICAL CONTRACTOR, AND SECURITY CONTRACTOR FOR EQUIPMENT POWER/CONTROL REQUIREMENTS, CONNECTIONS, WIRING DEVICE TYPE, MOUNTING HEIGHTS, MEANS OF ATTACHMENT, AND LOCATIONS OF ALL NEW EQUIPMENT AND ELECTRICAL DEVICES. FIELD VERIFY EXACT NAMEPLATE DATA ON ALL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS AND/OR BY THE OWNER PRIOR TO THE INSTALLATION OF ELECTRICAL WORK AND MAKE ANY ADJUSTMENTS TO OUTLETS, CONDUITS, WIRE, AND/OR CIRCUIT BREAKER/RUPSE RATINGS AS REQUIRED TO MATCH EQUIPMENT ACTUALLY FURNISHED.
- EQUIPMENT AND DEVICE LOCATIONS: LOCATIONS ON THE ELECTRICAL PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED FROM ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS. FINAL LOCATION OF EQUIPMENT AND DEVICES OR COORDINATED WITH ARCHITECT, OWNER, AND/OR OWNER'S REPRESENTATIVE. VERIFY STUB-UP LOCATION FOR ALL UNDER SLAB CONDUITS PRIOR TO ROUGH-IN.
- UTILITIES: UTILITY COORDINATION INFORMATION SHOWN ON THE DRAWINGS SHALL BE CONSIDERED PRELIMINARY. COORDINATE WITH LOCAL POWER COMPANY AND TELCO (TELEPHONE/CABLE/INTERNET) PROVIDERS FOR SERVICE REQUIREMENTS AND VERIFY FINAL POINT OF CONNECTION PRIOR TO MOBILIZATION IN THE FIELD. NOTIFY UTILITIES OF COMMENCEMENT OF WORK AND MAKE ALL ARRANGEMENTS FOR TEMPORARY AND PERMANENT SERVICES. PROVIDE ALL EQUIPMENT AND FULLY FUNCTIONING SYSTEMS TO MEET UTILITY REQUIREMENTS TO SET UP AND COORDINATE TEMPORARY AND PERMANENT ELECTRIC AND TELCO SERVICES IN BID. ALL MATERIALS MUST BE APPROVED BY THE LOCAL UTILITY. IF REQUIRED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT SYSTEMS FOR UTILITY MEDIUM VOLTAGE FROM UTILITY PRIMARY TO POINT OF INTERMEDIATE AT EDGE OF PROPERTY LINE.
- TEMPORARY POWER: PROVIDE TEMPORARY SERVICE FOR LIGHTING, POWER EQUIPMENT (DRILLS, SAWS, ETC.), AND CONTRACTOR MOBILIZED WORK TRAILERS. VERIFY TEMPORARY SERVICE REQUIREMENTS WITH GENERAL CONTRACTOR. TEMPORARY LIGHTING AND POWER SHALL MEET OSHA REQUIREMENTS AND LOCAL CODES.
- INTERRUPTION OF SERVICE: COORDINATE ALL WORK REQUIRING INTERRUPTION OF SERVICE (POWER, SECURITY, DATA, FIRE ALARM, ETC) WITH ALL AFFECTED PARTIES, INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTOR, BUILDING OWNER AND/OR LANDLORD, TENANT(S), AND OWNER AND/OR OWNER'S REPRESENTATIVE AND OBTAIN WRITTEN PERMISSION FROM SAID PARTIES AT LEAST 48 HOURS PRIOR TO SHUT DOWN. PROVIDE NOTICE TO ALL OTHER TRADES OF ALL SCHEDULED INTERRUPTIONS. ALL OUTAGES OR INTERRUPTIONS SHALL BE KEPT TO A MINIMUM DURATION. PROVIDE TEMPORARY SERVICE DURING OUTAGE WHEN REQUIRED BY AFFECTED PARTIES. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PERSONNEL FOR FIRE AND SECURITY WATCH DURING OUTAGES TO FIRE AND SECURITY SYSTEMS.
- PRODUCTS: ALL ELECTRICAL MATERIALS SHALL BE NEW EXCEPT WHERE SPECIFICALLY NOTED AS EXISTING TO BE REUSED. MATERIAL AND METHODS OF INSTALLATION SHALL CONFORM TO THE STANDARDS OF UNDERWRITERS LABORATORIES, INC. (UL), ANSI, NFPA, ADA, AND ALL OTHER APPLICABLE LOCAL ORDINANCES. DEFECTIVE EQUIPMENT AND/OR EQUIPMENT DAMAGED DURING INSTALLATION AND/OR TESTING SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING ALL APPLICABLE CODES AND THE ENGINEER'S PROPOSAL APPROVAL OR APPROVED.
- SHOP DRAWINGS AND SUBMITTALS: SUBMIT MANUFACTURER'S STANDARD PRODUCT INFORMATION, PERFORMANCE SPECIFICATIONS, ELECTRICAL RATINGS, PHYSICAL DIMENSIONS, AND OTHER INFORMATION NECESSARY FOR ENGINEER TO ENSURE COMPLIANCE WITH SPECIFICATIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING AND INSTALLING ANY EQUIPMENT. SUBMITTALS AND SHOP DRAWINGS SHALL CLEARLY INDICATE ITEMS TO BE REVIEWED BY HIGHLIGHTS AND ITEMS NOT TO BE REVIEWED SHALL BE CROSSED OUT. SUBMITTALS WITHOUT HIGHLIGHTS AND CROSSED OUT ITEMS SHALL NOT BE REVIEWED. ALL SUBMITTALS MUST BE RECEIVED BY THE ENGINEER WITHIN 30 DAYS OF CONTRACT AWARD. THE GENERAL CONTRACTOR, NOT EXCEPTIONS, EQUIPMENT ORDERED OR INSTALLED WITHOUT A FAVORABLY REVIEWED SUBMITTAL IS DONE AT THE CONTRACTOR'S OWN RISK.
- VALUE ENGINEERING SUBMITTALS: VALUE ENGINEERING SUBMITTALS SHALL BE LABELED AS SUCH AND INDICATE A "DEDUCT" OR CREDIT BACK TO THE OWNER. VE SUBMITTALS NOT CLEARLY LABELED OR NOT INCLUDING A DEDUCT SHALL BE REJECTED.
- SUBSTITUTION AND ALTERATIONS: THERE SHALL BE NO DEVIATION FROM THE REQUIREMENTS HEREIN WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL COSTS INCURRED RESULTING FROM SUBSTITUTION OF EQUIPMENT AS WELL AS THE PERFORMANCE AND SPACE REQUIREMENTS OF SUCH EQUIPMENT.
- SUBSTITUTIONS AND ALTERATIONS OF OTHER DISCIPLINES' EQUIPMENT: SUBSTITUTED AND ALTERED EQUIPMENT BY OTHER DISCIPLINES SHALL INCLUDE ALL MATERIAL AND LABOR COSTS FOR ELECTRICAL CONTRACTOR TO PROVIDE COMPLETE AND FULLY FUNCTIONING SYSTEMS TO MEET UTILITY REQUIREMENTS. THESE SUBSTITUTED AND ALTERED EQUIPMENT, THESE ADDITIONAL ELECTRICAL COSTS MUST BE ABSORBED BY THE OTHER DISCIPLINE'S CONTRACTOR IN ORDER FOR THE SUBSTITUTED OR ALTERED GEAR TO BE ACCEPTED.
- FAULT CURRENT PROTECTION: ALL EQUIPMENT SHORT CIRCUIT CURRENT RATINGS (SCCR) AND OVERCURRENT PROTECTIVE DEVICE AMPERE INTERRUPTING CAPACITY (AIC) RATINGS SHALL BE GREATER THAN THE AVAILABLE FAULT CURRENT AT EACH POINT OF CONNECTION. THE CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT AND AIC RATINGS WITH POWER COMPANY. OBTAIN THE AVAILABLE FAULT CURRENT AT TRANSFORMER SECONDARY FROM THE POWER COMPANY AND PROVIDE PROPOSED EQUIPMENT SCRR AND OVERCURRENT PROTECTIVE DEVICE AIC RATINGS FOR ENGINEER APPROVAL. OVERCURRENT PROTECTIVE DEVICES AIC RATINGS SHALL BE FULLY RATED WITH A MINIMUM 10% MARGIN BETWEEN THE CALCULATED FAULT LEVEL AND THE SPECIFIED SHORT CIRCUIT RATING OF THE EQUIPMENT UNO ON PLANS.
- VOLTAGE DROP: WIRE SIZES SPECIFIED IN THESE PLANS ARE MINIMUM WIRE SIZES. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INCREASING WIRE SIZES BASED ON ACTUAL CIRCUIT LENGTH TO MAINTAIN VOLTAGE DROP AT A MAXIMUM OF 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS. THE CUMULATIVE VOLTAGE DROP SHALL NOT EXCEED FROM THE SOURCE TO THE END DEVICE SHALL NOT EXCEED 5% OF NOMINAL SYSTEM VOLTAGE.
- WIRING: ALL CONDUCTORS CARRYING 50 VOLTS OR MORE SHALL BE MINIMUM #12 AWG. CU, UNO. PROVIDE DUAL RATED TYPE THIN-THIN FOR ABOVE GROUND AND TYPE THIN OR XHHW FOR BELOW GROUND. COORDINATE INSULATION TYPES WITH ENVIRONMENTAL CONDITIONS, NEC REQUIREMENTS, AND CONDUIT FLT REQUIREMENTS. CONDUCTORS #12 AND #10 SHALL BE SOLID. CONDUCTORS #8 AND LARGER SHALL BE STRANDED. ALL CONDUCTOR SIZES ARE BASED ON COPPER WITH 90°C INSULATION RATED 100A OR LESS AND 75°C FOR CIRCUITS RATED MORE THAN 100A.
- LOW VOLTAGE WIRING: LOW VOLTAGE WIRING FOR SPECIAL SYSTEMS IS PERMITTED TO BE FREE-WIRED ONLY ABOVE ACCESSIBLE CEILING AND BELOW RAISED FLOOR SYSTEMS. UNO. FREE-WIRED CABLE SHALL BE UL LISTED. PLENUM RATED: LOW VOLTAGE WIRING IN OPEN CEILINGS, HARD CEILINGS, WALLS, PASSING THROUGH ADJACENT TENANT SPACES, OR ROUTED UNDERGROUND OR BELOW SLAB SHALL BE INSTALLED IN CONDUIT. LOW VOLTAGE WIRING IS NOT SHOWN ON PLANS, UNLESS SPECIFICALLY CALLED OUT.
- COLOR CODING: FOR EXISTING WIRING SYSTEMS, COLOR CODING SHALL FOLLOW EXISTING SITE REQUIREMENTS. FOR NEW INSTALLATIONS OR WHERE EXISTING INSTALLATIONS DO NOT HAVE A COLOR CODING CONVENTION, THE FOLLOWING SYSTEMS OF COLOR CODING SHALL BE STRICTLY ADHERED TO AND FOLLOWED THROUGHOUT:

CONDUCTOR	480V/277V, 3-PH	208Y/120V, 3-PH	240D/120V, 3-PH	240D/120V, 1-PH
PHASE A:	BLACK	BLACK	BLACK	BLACK
PHASE B:	BROWN	RED	ORANGE	RED
PHASE C:	YELLOW	BLUE	BLUE	WHITE
NEUTRAL:	GRAY	WHITE	WHITE	WHITE
EQUIPMENT GROUND:	BROWN	GREEN	GREEN	GREEN
ISOLATED GROUND:	---	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW
- SHARED CIRCUIT NEUTRALS: SHARED CIRCUIT NEUTRALS SHALL NOT BE USED UNLESS INDICATED OTHERWISE ON PANEL SCHEDULE. WHERE USED, CIRCUIT BREAKER HANDLE TIES SHALL BE PROVIDED TO DISCONNECT POWER TO EACH PHASE CONDUCTOR OF THE SHARED NEUTRAL CIRCUIT.
- GROUNDING: ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GREEN COPPER EQUIPMENT GROUND CONDUCTOR SIZED PER NEC. THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE BY EQUAL PROPORTION TO THE PHASE CONDUCTORS WHENEVER THE PHASE CONDUCTORS HAVE BEEN UPSIZED TO MAINTAIN ACCEPTABLE VOLTAGE DROP LEVELS. EQUIPMENT GROUNDS SHALL BE BONDED TO ALL EQUIPMENT AND DEVICES. USE OF METALLIC CONDUIT SHALL NOT TAKE THE PLACE OF AN EQUIPMENT GROUND CONDUCTOR.
- CONDUIT: ALL WIRING SHALL BE INSTALLED IN CONDUIT, MINIMUM 1/2" FOR INDOOR AND 3/4" FOR OUTDOOR AND UNDER SLAB. EMT IS ACCEPTABLE WITH COMPRESSION FITTINGS ONLY. ALL HOMERUNS SHALL BE HARD PIPED. WHERE IS ACCEPTABLE FOR FIXTURE WHIPS ONLY, ALL CONDUIT AND WIRING SHALL BE CONCEALED IN FLOORS, WALLS, AND/OR CEILING UNLESS SPECIFICALLY NOTED OTHERWISE. CHANNEL EXISTING WALLS WHERE REQUIRED. WHERE CONDUITS ARE UNABLE TO BE CONCEALED, HARD PIPED CONDUIT SHALL BE USED AND PAINTED TO MATCH ADJOINING SURFACE.
- UNDERGROUND CONDUITS: MINIMUM BURIAL DEPTH SHALL BE 24" TOP OF CONDUIT. PROVIDE DETECTABLE WARNING TAPE WHERE REQUIRED BY AHJ OR CODE.
- ROUTING: FOR CLAY, CONDUIT ROUTING SHOWN IN SYMBOLIC AND DIAGRAMMATIC INSTALL CONDUIT TO FIT ACTUAL FIELD CONDITIONS.
- OPEN CEILING: IN AREAS WITHOUT CEILING OR WHERE ANY CONDUITS, CONDUCTORS, FEEDERS, OR LOW VOLTAGE CABLING

ELECTRICAL GENERAL REQUIREMENTS

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS
A. The general provisions of the contract including General and Special Conditions and General Requirements shall apply to all work under this Section.
- 1.02 REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS
A. Equipment, fixtures, material and installation shall conform to the requirements of the local Building Department, the serving utility companies, the National Electrical Code, National Electrical Safety Code, Life Safety Code, Occupational Safety and Health Act, and applicable national, state and local codes, ordinances and regulations.
B. All equipment shall be equal to or exceed the minimum requirements of NEMA, IEEE, and UL.
C. Should any change in Drawings or Specifications be required to comply with governmental regulations, the Contractor shall notify Architect/Engineer prior to execution of the Work. The work shall be carried out according to the requirements of such code in accordance with the instruction of the Architect/Engineer and at no additional cost to the Owner.
D. The provisions of Standards, Codes, Laws, Ordinances, etc., shall be considered minimum requirements. In case of conflict between their published requirements, the Owner's Representative shall determine which is to be followed and his decision shall be binding. Specific requirements of this specification or the drawings, which exceed the published requirements, shall take precedence over them.
- 1.03 FEES
A. All local fees, permits, and services of inspection authorities shall be obtained and paid for by the Contractor. The Contractor shall cooperate fully with local companies with respect to their services. Contractor shall include in his bid any costs to be incurred relative to power service (primary and/or secondary) and telephone service.
- 1.04 SCOPE OF WORK
A. This division of the specifications covers the electrical systems of the project. It includes work performed by the electrical trades as well as trades not normally considered as electrical trades.
B. Provide all incidentals, equipment, appliances, services, hoisting, scaffolding, supports, tools, supervision, labor consumable items, fees, licenses, etc., necessary to provide complete systems. Perform start-up and checkout on each item and system to provide fully operable systems.
C. Examine and compare the Electrical Drawings with these specifications, and report any discrepancies between them to the Architect/Engineer and obtain from him written instructions for changes necessary in the work. At time of bid the most stringent requirements must be included in the bid.
D. Examine and compare the Electrical Drawings and Specifications with the Drawings and Specifications of other trades, and report any discrepancies between them to the Architect/Engineer and obtain from him written instructions for changes necessary in the work. At time of bid, the most stringent requirements must be included in said bid.
E. Install and coordinate the electrical work in cooperation with other trades installing interrelated work. Before installation, make proper provisions to avoid interferences in a manner approved by the Architect/Engineer. All changes required in the work of the Contractor, caused by his neglect to do so, shall be made by him at his own expense.
F. It is the intent of the Drawings and Specifications to provide a complete workable system ready for the Owner's operation. Any item not specifically shown on the Drawings or called for in the Specifications, but normally required to conform with the intent, are to be considered a part of the Contract.
G. All materials furnished by the Contractor shall be new and unused (temporary lighting and power products are excluded) and free from defects. All materials used shall bear the Underwriter's Laboratory, Inc. label provided a standard has been established for the material in question.
H. Except for conduit, conduit fittings, outlet boxes, wire and cable, all items of equipment or material shall be the product of one manufacturer throughout the entire project. Multiple manufacturers will not be permitted.
- 1.05 REFERENCES
A. Utilize the following abbreviations and definitions for discernment within the Drawings and Specifications.
1. Abbreviations
a) NEC National Electrical Code.
b) OSHA Occupational Safety and Health Act.
c) ANSI American National Standards Institute.
d) NFPA National Fire Protection Association.
e) ASA American Standards Association.
f) IEEE Institute of Electrical and Electronics Engineers.
g) NEMA National Electrical Manufacturers Association.
h) UL Underwriters Laboratories, Inc.
i) IES Illuminating Engineering Society.
j) ICEA Insulated Cable Engineers Association.
k) ASTM American Society of Testing Materials.
l) ETL Electrical Testing Laboratories, Inc.
m) CBM Certified Ballast Manufacturers.
n) EIA Electronic Industries Association.
o) LED Light Emitting Diode.
p) OEM Original Equipment Manufacturer.
- 1.06 DEFINITIONS
A. "PROVIDE" means to supply, purchase, transport, place, erect, connect, test, and turn over to Owner, complete and ready for regular operation, the particular Work referred to in the bid.
B. "INSTALL" means to join, unite, fasten, link, attach, set up, or otherwise connect together before testing and turning over to Owner, complete and ready for regular operation, the particular Work referred to.
C. "FURNISH" means to supply all materials, labor, equipment, testing apparatus, controls, tests, accessories, and all other items customarily required for the proper and complete application for the particular Work referred to.
D. "WIRING" means the inclusion of all raceways, fittings, conductors, connectors, tape, junction and outlet boxes, connections, splices, and all other items necessary and/or required in connection with such Work.
E. "CONDUIT" means the inclusion of all fittings, hangers, supports, sleeves, etc.
F. "AS DIRECTED" means as directed by the Architect/Engineer, or his representative.
G. "CONCEALED" means embedded in masonry or other construction, installed behind wall furring or within double partitions, or installed above hung ceilings.
- 1.07 COORDINATION OF THE WORK
A. Certain materials will be provided by other trades. Examine the Contract Documents to ascertain these requirements.
B. Carefully check space requirements with other trades and the physical confines of the area to insure that all material can be installed in the spaces allotted thereto including finished suspended ceilings and the spaces within the existing building. Make modifications thereto as required and approved.
C. Transmit to other trades all information required for work to be provided under their respective Sections in ample time for installation.
D. Wherever work interconnects with work of other trades, coordinate with other trades to insure that all trades have the information necessary so that they may properly install all the necessary connections and equipment. Identify all items of work that require access so that the ceiling trade will know where to install access doors and panels.
E. Coordinate, project and schedule work with other trades in accordance with the construction sequence.
F. The Drawings show only the general run of raceways and approximate location of outlets. Any significant changes in location of outlets, cabinets, etc., necessary in order to meet field conditions shall be brought to the immediate attention of the Architect/Engineer and receive his approval before such alterations are made. All such modifications shall be made without additional cost to the Owner.
G. Obtain from the Architect/Engineer in the field the location of such outlets or equipment not definitely located on the Drawings.
H. Circuit "tags" in the form of arrows are used where shown to indicate the home runs of raceways to electrical distribution points. These tags show the circuits in each home run and the panel designation. Show the actual circuits numbers on the finished record drawings and on panel directory card. Where circuiting is not indicated, Electrical Subcontractor must provide required circuiting in accordance with the loading indicated on the drawings and/or as directed.
I. Adjust location of conduits, panels, equipment, pull boxes, fixtures, etc. to accommodate the work to prevent interferences, both anticipated and encountered. Determine the exact route and location of each raceway prior to fabrication.
1. Right-of-Way:
a) Lines that pitch have the right-of-way over those that do not pitch. For example: steam, condensate, and plumbing drains normally have right-of-way. Lines whose elevations cannot be changed to have right-of-way over lines whose elevations can be changed.
b) Make offsets, transitions and changes in direction in raceways as required to maintain proper headroom in pitch or sloping lines whether or not indicated on the Drawings.
J. Wherever the work is of sufficient complexity, prepare additional Detail Drawings to scale similar to that of the bidding Drawings, prepared on tracing medium of the same size as Contract Drawings. With these layouts, coordinate the work with the work of other trades. Such detailed work to be clearly identified on the Drawings as to the area to which it applies. Submit for review Drawings clearly showing the work and its relation to the work of other trades before commencing shop fabrication or erection in the field.
K. Coordinate with the local Electric Utility Company and the local Telephone Company as to their requirements for service connections and provide all necessary materials, labor and testing.
L. Coordinate with contractors for work under other Divisions of this specification for all work necessary to accomplish this contractor's work.
- 1.08 EXAMINATION OF SITE
A. Prior to the submitting of bids, the Contractor shall visit the site of the job and shall familiarize himself with all conditions affecting the proposed installation and shall make provisions as to the cost thereof. Failure to comply with the intent of this paragraph will in no way relieve the contractor of performing all necessary work shown on the Drawings.

1.09 PROGRESS OF WORK

- A. The Contractor shall order the progress of his work to conform to the progress of the work of other trades and shall complete the entire installation as soon as the conditions of the building will permit. Any cost resulting from the defective or ill-timed work performed under this section shall be borne by the Contractor.
- 1.10 DELIVERY, STORAGE, AND HANDLING
A. Ship and store all products and materials in a manner that will protect them from damage, weather and entry of debris. If items are damaged, do not install, but take immediate steps to obtain replacement or repair. Any such repairs shall be subject to review and acceptance by the Architect/Engineer.
B. Deliver materials in manufacturer's unopened container fully identified with manufacturer's name, trade name, type, class, grade, size and color.
C. Store materials suitably sheltered from the elements, but readily accessible for inspection by the Architect/Engineer until installed. Store all items subject to moisture damage in dry, heated spaces.
- 1.11 EQUIPMENT ACCESSORIES
A. Provide supports, hangers and auxiliary structural members required for support of the work.
B. Furnish and set all sleeves for passage of raceways through structural, masonry and concrete walls of floors and elsewhere as will be required for the proper protection of each raceway passing through building surfaces.
C. Wall mounted equipment may be directly secured to wall by means of steel bolts. Maintain at least 1" air space between equipment and supporting wall. Groups or arrays of equipment may be mounted on adequately sized steel angles, channels, or bars. Prefabricated steel channels providing a high degree of mounting flexibility, such as those manufactured by Kindorf, Glob-Strut and Unistrut, may be used for mounting arrays of equipment.
- 1.12 OPERATIONS AND MAINTENANCE MANUALS
A. General: Provide operations & maintenance (O&M) manuals in accordance with the Contract Documents.
1. Provide two (2) copies of each manual.
2. Manuals shall be 8-1/2 inches X 11 inches in hard cover 3-ring loose-leaf binders.
3. Manuals shall be complete and in Owner's hands prior to turning building over to Owner and at least 10 days prior to instruction to operating personnel.
B. Provide manufacturer's literature as regularly published by the respective manufacturers for proper preventative and comprehensive maintenance.
C. Provide O&M manuals including but not limited to the following:
1. Alphabetical list of all system components, with the name, address, and 24-hour phone number of the company responsible for servicing each item during the first year of operation.
2. Operating instructions for complete system including:
a) Normal starting, operating, and shut-down.
b) Emergency procedures for fire or failure of major equipment.
c) Summer and winter special procedures, if any.
d) Day and night special procedures, if any.
3. Maintenance instruction including:
a) Proper lubricants and lubricating instructions for each piece of equipment, and date when lubricated.
b) Necessary cleaning, replacement and/or adjustment schedule.
4. Manufacturer's data for equipment including:
a) Installation instructions.
b) Drawings and specifications.
c) Parts list, including recommended items to be stocked.
d) Complete wiring diagrams.
e) Marked or changed prints locating all concealed parts and all variations from the original system design.
f) Test and inspection certificates.
D. Refer to individual specification sections for additional O&M requirements.

1.13 RECORD DOCUMENTS

- A. During construction, keep an accurate record of all deviations between the work as shown on Drawings and that which is actually installed. Keep this record set of prints at the job site for review by the Architect/Engineer.
B. Upon completion of the installation and acceptance by the owner, transfer all record drawing information to one neat and legible set of prints. Then deliver them to the Architect/Engineer for transmittal to the Owner.
C. Provide in each main electrical switchboard room a framed copy under glass of the appropriate Single Line Riser Diagram as reviewed by the electrical engineer. Media shall be a high quality presentation type paper. Blueprints or other media which fade shall not be used.
- 1.14 GUARANTEE
A. Guarantee all material and workmanship for a period of one (1) year from date of final acceptance by the Owner, except that where guarantees or warranties for longer terms are specified herein, such longer term to apply. Within 24 hours after notification, correct any deficiencies that occur during the guarantee period at no additional cost to the Owner, all to the satisfaction of the Owner and Architect/Engineer. Obtain similar guarantees from subcontractors, manufacturers, suppliers and trade specialists.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Applicable equipment and materials shall be listed by Underwriters' Laboratories and Manufactured in accordance with ASME, NEMA, ANSI or IEEE standards, and as approved by local authorities having jurisdiction as mentioned in Division 1.
B. If products and materials are specified or indicated on the Drawings for a specific item or system, use those products or materials. If products and materials are not listed in either of the above, use first class products and materials, subject to approval of Shop Drawings where Shop Drawings are required or as approved in writing where Shop Drawings are not required.
C. All equipment capacities, etc. are listed for job site operating conditions. All equipment sensitive to altitudes or ambient temperatures to be derated and method of derating shown on Shop Drawings. Where operating conditions shown differ from the laboratory test conditions, the equipment to be derated and the method of derating shown on Shop Drawings.

2.02 SUBSTITUTION OF MATERIALS OR EQUIPMENT

- A. All requests for substitution of materials or equipment shall be made in writing by the Contractor. The request must be in the form of a letter not less than 10 days prior to the bid date. Samples of proposed substitute materials or equipment shall be submitted to the Engineer for review whenever they are requested. Bids shall be based only upon the specified materials and equipment, or substitutes that have received written acceptance from the Engineer prior to the bid.
B. Wherever the words "for approval" or "approved" are used in regard to manufactured specialties, or wherever it is desired to substitute a different make or type of apparatus for that specified, submit all information pertinent to the adequacy and adaptability of the proposed apparatus, and secure Architect/Engineer's acceptance before apparatus is ordered.
C. Wherever quantities or a definite make and size of apparatus is specified, the make and size of apparatus which is proposed must conform substantially (in regard to the operating results) to that specified or implied. Same shall apply to important dimensions relating to operation of apparatus in coordination with the rest of the system, or to properly fitting it into available space conditions. Any substitution of equipment or apparatus shall include all necessary revisions, as required to complete the installation.
D. Acceptance of substitutions, for equipment specified herein, will not be given merely upon submission of manufacturer's names and will be given only after receipt of complete and satisfactory performance data covering the complete range of operating conditions in tabular and graphical form. Furnish complete and satisfactory information relative to equipment dimensions, weight, etc. Acceptance of all equipment specified or shown on the Drawings, or substitutions submitted for that specified or shown on the Drawings, will be granted if such equipment, in the opinion of the Architect/Engineer, conforms to the performance requirements, space conditions, weight requirements and quality requirements. Any additional construction and design costs incurred as a result of any accepted substitution shall be borne by the Contractor. The opinion and judgement of the Architect/Engineer shall be final, conclusive, and binding.

2.03 SHOP DRAWINGS

- A. Prepare and submit detailed Shop Drawings for materials, systems, and equipment as listed herein, including locations and sizes of all openings in floor decks, walls, and floors.
B. The Work described in any Shop Drawing submission shall be carefully checked for all clearances (including those required for maintenance and servicing), field conditions, maintenance of architectural conditions, and proper coordination with all trades on the job. Each submitted Shop Drawing shall include a certification that all related job conditions have been checked and that no conflict exists.
C. All drawings shall be submitted sufficiently in advance of field requirements to allow ample time for checking and resubmittal as may be required. All submittals shall be complete and contain all required and detailed information.
D. Acceptance of any submitted data or Shop Drawings for material, equipment apparatus, devices, arrangements, and layout shall not relieve Contractor from responsibility of furnishing same of proper dimensions and weight, capacities, sizes, quantity, quality and installation details, to efficiently perform the requirements and intent of the Contract. Such acceptance shall not relieve Contractor from responsibility for errors, omissions, or inadequacies of any sort on submitted data or Shop Drawings.
E. Each Shop Drawing shall contain the following information.
1. Provide general information on each copy of the submittal.
a) Project title.
b) Reference to the applicable drawing and specification article.
c) Contractor and supplier identification, addresses and telephone numbers.
d) Submittal Date.
2. Certification that the contractor has reviewed the submittal.
3. Refer to individual specification sections for additional information requirements.
F. Shop Drawing submittals shall be provided for each specific material, system, or equipment as identified herein.
1. As a minimum, make submittals on the following items:
a) Raceways, conduit & wire

- b) Wiring devices and plates
c) Switchboards
d) Transformers
e) Panelboards
f) Fuses
g) Disconnect switches
h) Motor control centers
i) Motor controllers, starters, and contactors
j) Lighting fixtures, lamps
k) Instrumentation, metering equipment
l) Special systems - fire alarm, security, CCTV, intercom, etc.
2. Refer to individual specification sections for additional submittal requirements.

PART 3 - EXECUTION

3.01 INSTALLATION

- B. Follow manufacturer's instructions for installing, connecting, and adjusting all equipment. Provide one copy of such instructions to the Architect/Engineer before installing any equipment. Provide a copy of such instructions at the equipment during any work on the equipment. Provide all special supports, connections, wiring, accessories, etc.
C. Use mechanics skilled in their trade for all work.
D. Keep all items protected before and after installation. Clean up all debris.
E. Before commencing Work, examine all adjoining, underlying, etc., Work on which this Work is in any way dependent for perfect workmanship and report any condition which prevents performance of first class work. Become thoroughly familiar with actual existing conditions to which connections must be made or which must be changed or altered.

3.02 PREMIUM TIME WORK

- A. The following Work shall be performed at night or weekend other than holiday weekends as directed and coordinated with the Owner.
1. All tie-in, cut-over and modifications to the existing electrical system and other existing system requiring tie-ins or modifications shall be arranged and scheduled with the Owner to be done at a time as to maintain continuity of the service and not interfere with normal building operations.

3.03 EXCAVATION, TRENCHING AND BACKFILL

- A. Provide excavation for the Work. Excavate all material encountered, to the depths indicated on the drawings or required. Remove from the site, excavated materials not required or suitable for backfill. Provide grading, as may be necessary, to prevent surface water from flowing into trenches or other excavations. Remove any water accumulating therein. Provide shoring and shoring as may be necessary for the protection of the Work and for the safety of personnel.
B. Provide trenches of widths necessary for the proper execution of the Work. Grade bottom of the trenches accurately to provide uniform bearing and support the Work on undisturbed soil at every point along its entire length. Except where rock is encountered, do not excavate below the depths indicated. Where rock excavations are required, excavate rock to a minimum overdepth of four (4") inches below the trench depths indicated on the Drawings or required. Backfill overdepths in the rock excavation and unauthorized overdepths with loose granular, moist earth, thoroughly machine tamped, to a compaction level of at least 95 percent to standard proctor density or 75 percent relative density or as specified by the Architect. Whenever unstable soil that is incapable of properly supporting the Work, as determined by Architect/Engineer, is encountered in the bottom of the trench, remove soil to a depth required and backfill the trench to the proper grade with coarse sand, fine gravel, or other suitable material.
C. Excavate trenches for utilities to a depth that will provide the following minimum depths of cover from existing grade or from indicated finished grade, whichever is lower, unless otherwise specifically shown.
1. Primary electric service: four (4) feet (minimum)
2. Secondary electric service: two (2) feet (minimum)
3. Telephone service: two (2) feet (minimum)
D. Trenches shall not be placed within ten (10) feet of foundation or soil surfaces which must resist horizontal forces.
E. Do not backfill trenches until all required tests have been performed and the installation observed by the Engineer. Comply with the requirements of other sections of these specifications. Backfill shall consist of non-expansive soil with limited porosity. Deposit in six (6") inch layers and thoroughly and carefully tamp until the Work has a cover of not less than one (1) foot. Backfill and tamp remainder of trench at twelve (12") inch intervals until complete. Uniformly grade the finished surface. Backfill and tamp with compaction at least equal to the surrounding area.

3.04 CUTTING, PATCHING AND REPAIRING

- A. The Work shall be carefully laid out in advance. Where cutting, channeling, chasing or drilling of floors, walls, partitions, ceilings or other surfaces is necessary for the proper installation, support or anchorage of raceway, outlets or other equipment, the work shall be carefully done. Any damage to the building, piping, equipment or defaced finish plaster, woodwork, metalwork, etc. shall be repaired by skilled mechanics of the trades involved at no additional cost to the Owner.
B. Where conduits, mounting channels, outlet, junction, or pull boxes are mounted on a painted surface, or a surface to be painted, they shall be painted to match the surface. Whenever support channels are cut, the bare metal shall be cold galvanized.

3.05 DEMOLITION AND CONTINUANCE OF EXISTING SERVICES

- A. All existing electrical services not specifically indicated to be removed or altered shall remain as they presently exist.
B. Should any existing services interfere with new construction, the Contractor shall (after obtaining written approval from the Architect/Engineer) alter or reroute such existing equipment to facilitate new construction.
C. Under no circumstances shall existing services be terminated or altered unless deemed necessary by the Architect/Engineer or specified herein; also, prior to altering any existing situation, the Contractor shall notify the Owner in writing giving two (2) weeks advance notice of planned alteration.
D. It shall be solely the Contractor's responsibility to guarantee continuity of present facilities (with respect to damage or alteration due to new construction) and any unauthorized alteration to existing equipment shall be corrected by the Contractor to the Architect/Engineer's satisfaction at the Contractor's expense.

3.06 CLEANING UP

- A. Contractor shall take care to avoid accumulation of debris, boxes, crates, etc., resulting from the installation of his work. Contractor shall remove from the premises each day all debris, boxes, etc., and keep the premises clean.
B. Contractor shall clean up all fixtures and equipment at the completion of the project.
C. All switchboards, panelboards, wiring, trench ducts, cabinets and enclosures shall be thoroughly vacuumed clean prior to energizing equipment and at the completion of the project. Equipment shall be opened for observation by the Architect/Engineer as required.
3.07 WATERPROOFING
A. Avoid, if possible, the penetration of any waterproof membranes such as roofs, machine room floors, basement walls, and the like. If such penetration occurs, it shall be repaired prior to the waterproofing and furnish all sleeves or pitch-pockets required. Advise the Architect/Engineer and obtain written permission before penetrating any waterproof membrane, even where such penetration is shown on the Drawings.
B. If Contractor penetrates any walls or surfaces after they have been waterproofed, he shall restore the waterproof integrity of that surface as directed by the Architect/Engineer at his own expense.

3.08 SUPPORTS

- A. Support work in accordance with the best industry practice and the following.
B. Include supporting frames or racks extending from building structure for work indicated as being supported from walls where the walls are incapable of supporting the weight. In particular, provide such frames or racks in electric closets.
C. Include supporting frames or racks for equipment, intended for vertical surface mounting, which is required in a free standing position.
D. Supporting frames or racks shall be of standard angle, standard channel or specialty support system steel members. They shall be rigidly bolted or welded together and adequately braced to form a substantial structure. Racks shall be of ample size to assure a workmanlike arrangement of all equipment mounted on them.
E. Nothing, (including outlet, pull and junction boxes and fittings) shall depend on electric conduits, raceways, or cables for support, except that threaded hub type fittings having a gross volume not in excess of 100 cubic inches may be supported from heavy wall conduit, where the conduit is securely supported from the structure within five inches of the fitting on two opposite sides.
F. Nothing shall rest on, or depend for support on, suspended ceilings media (tiles, lath, plaster, as well as splines, runners, bars and the like in the plane of the ceiling).
G. Provide required supports and hangers for conduit, equipment, etc., so that loading will not exceed allowable loadings of structure.
- 3.09 FASTENINGS
A. Fasten electric work to building structure in accordance with the best industry practice and the following.
B. Floor or pad mounted equipment shall not be held in place solely by its own dead weight. Include anchor fastening in all cases.
C. For items which are shown as being ceiling mounted at locations where fastening to the building construction element above is not possible, provide suitable auxiliary channel or angle iron bridging, tying to the building structural elements.

3.10 TESTING EQUIPMENT AND MATERIALS

- A. The Contractor shall provide all testing instruments, equipment and all materials, connections, labor, etc., required to perform tests.
B. Test all circuits, fixtures, equipment, and systems for proper operation and freedom from grounds, shorts and open circuits before acceptance is requested.
C. Measure voltage at panelboards and outlets after the building is fully occupied. Make final transformer tap adjustments based on these measurements.
D. Perform all tests required by local authorities, such as tests of life safety systems, in addition to tests specified herein.
E. Perform tests required by other specification sections.

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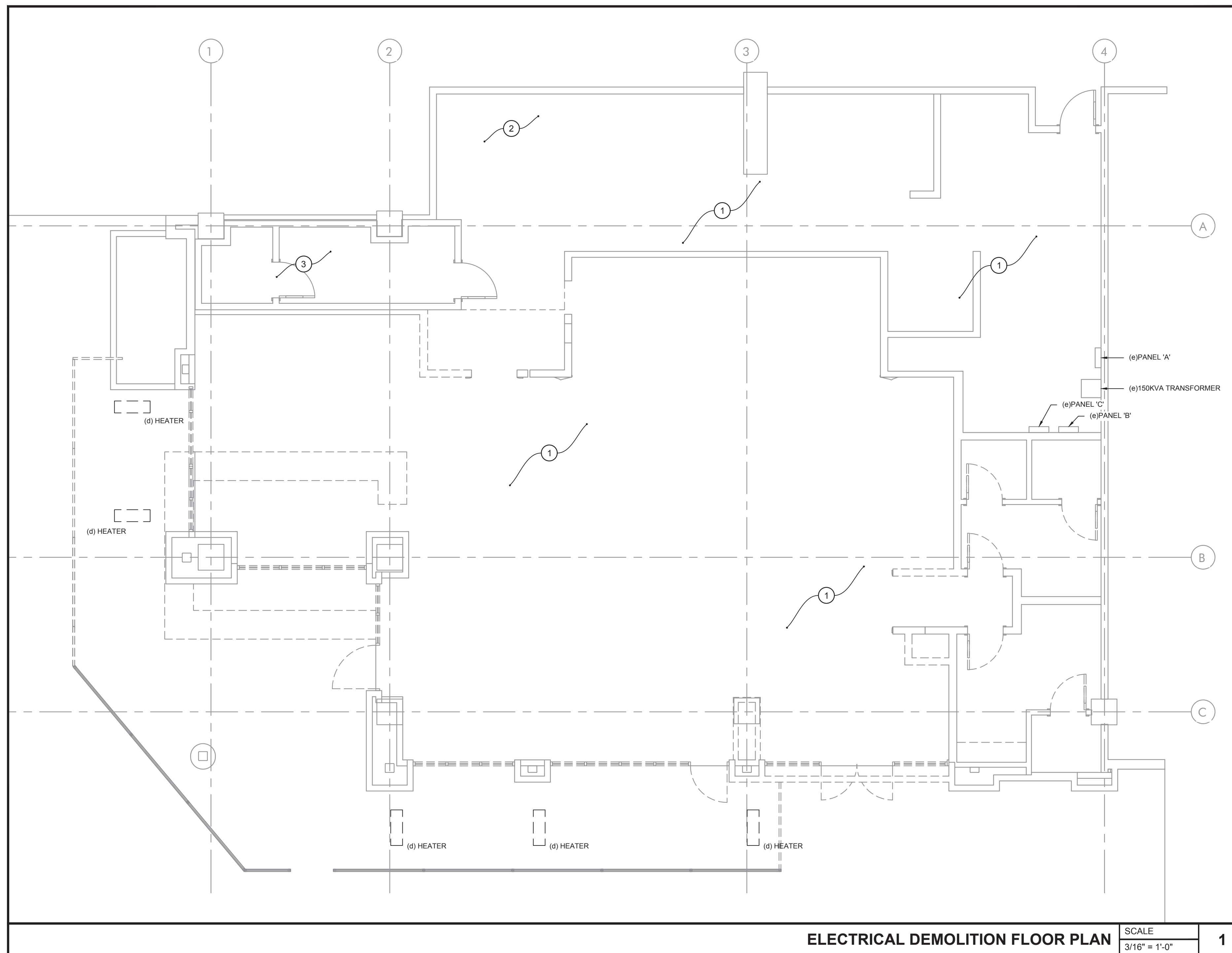
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02.09.2022 FLOOR PLAN

ELECTRICAL
SPECIFICATIONS

EO.2
BN1580

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ELECTRICAL DEMOLITION FLOOR PLAN SCALE 3/16" = 1'-0" 1

KEYED NOTES:

- ① AREA TO BE RECONFIGURED/DEMOLISHED: ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR DEMO SCOPE OF WORK AND DISCONNECT AND REMOVE EXISTING DEVICES, FIXTURES, AND EQUIPMENT TO ACCOMMODATE PROPOSED FLOOR PLAN. REFER TO PROPOSED ELECTRICAL PLANS FOR NEW WORK. COORDINATE WITH GENERAL CONTRACTOR FOR CONSTRUCTION PHASING.
- ② EXISTING KITCHEN HOOD TO REMAIN: EXISTING KITCHEN HOOD AND ALL ACCESSORY SYSTEM TO REMAIN AND REUSE ON PROPOSED PLAN.
- ③ EXISTING WALK-IN-COOLER/FREEZER TO REMAIN: EXISTING WALK-IN-COOLER/FREEZER AND ALL ACCESSORY SYSTEM TO REMAIN AND REUSE ON PROPOSED PLAN.

DEMOLITION NOTES:

1. COORDINATION: DRAWINGS ARE TO BE USED ONLY AS A GUIDELINE FOR DEMOLITION. COORDINATE ALL DEMOLITION WORK WITH OTHER TRADES, WITH NEW WORK INDICATED ON CONSTRUCTION PLANS, AND WITH ACTUAL FIELD CONDITIONS.
2. LOCKOUT/TAGOUT: VERIFY ALL SOURCES OF ELECTRICAL POWER TO AREA OF WORK ARE DISCONNECTED AND LOCKOUT/TAGOUT PROCEDURES ARE FOLLOWED PER OSHA REQUIREMENTS.
3. NOT IN CONTRACT AREAS: LOCATE, IDENTIFY, AND PROTECT ELECTRICAL SERVICES (E.G. POWER, CONTROL, COMMUNICATION, SECURITY, SIGNAL, LIFE SAFETY, AND FIRE ALARM) PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE RENOVATION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICE FOR AFFECTED AREAS.
4. CONTINUITY OF SERVICE: ANY CIRCUITS FEEDING THROUGH DEVICES OR EQUIPMENT BEING REMOVED, RELOCATED, REWORKED, OR ABANDONED AND SERVING OTHER ELECTRICAL DEVICES, AND/OR EQUIPMENT SHALL BE MAINTAINED BY REWORKING EXISTING WIRING TO RESTORE CONTINUITY OF THE INTERRUPTED CIRCUITS.
5. LIFE SAFETY: EXISTING EMERGENCY LIGHTING, EGRESS LIGHTING, AND FIRE ALARM SYSTEM AND NOTIFICATION APPLIANCES SHALL BE SALVAGED, MAINTAINED IN PROPER OPERATION, AND RECONFIGURED AS REQUIRED TO COMPLY WITH APPLICABLE CODES AND STANDARDS FOR EACH PHASE OF CONSTRUCTION.
6. CODE VIOLATIONS: NOTIFY ENGINEER UPON DISCOVERY OF ANY EXISTING CODE VIOLATIONS FOR CORRECTIVE ACTIONS.
7. EXISTING CIRCUITRY: THE CONTRACTOR MAY REUSE EXISTING CIRCUITRY AS FIELD CONDITIONS PERMIT AND WHERE DESIGN INTENT CAN BE MET. EC SHALL VERIFY THAT TOTAL NEW LOAD DOES NOT EXCEED 80% OF THE BREAKER CONTINUOUS CURRENT RATING.
8. COMPLETE REMOVAL: ELECTRICAL EQUIPMENT AND DEVICES SHALL BE REMOVED COMPLETE, INCLUDING CONDUIT, WIRE, HANGERS, AND SUPPORTS BACK TO SOURCE.
9. PROTECTION BARRIERS: PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS. REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION IS COMPLETE.
10. SALVAGE FOR REUSE: EXISTING EQUIPMENT NOTED TO REMAIN OR BE RELOCATED SHALL BE SALVAGED, REPAIRED, AND CLEANED FOR FUTURE USE. REPLACE MISSING HARDWARE OR DAMAGED EQUIPMENT AS REQUIRED.
11. STORAGE: CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, PRESERVATION, STORAGE, AND PROTECTION OF ALL EQUIPMENT AND DEVICES DESIGNATED TO BE REMOVED AND REINSTALLED. EQUIPMENT SHALL BE STORED IN A MANNER TO AVOID DAMAGE UNTIL REINSTALLED.
12. OWNER RETENTION: THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT NOT INDICATED TO BE REUSED TO A DESIGNATED LOCATION AT THE PROJECT SITE. AFTER THE EQUIPMENT HAS BEEN ASSEMBLED FOR THE OWNER'S INSPECTION AND POSSIBLE RETENTION, ALL EQUIPMENT NOT TO BE RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
13. PANELBOARD CIRCUIT DIRECTORY: ALL PANELBOARDS SHALL BE FURNISHED WITH REVISED TYPEWRITTEN CIRCUIT DIRECTORY CARDS WITH THE EQUIPMENT AND SPACE SERVED PROPERLY DESIGNATED. EXISTING EQUIPMENT SHALL BE RE-IDENTIFIED AS REQUIRED TO COORDINATE WITH PROPOSED DESIGN.
14. SPARED OUT CIRCUITS: BRANCH CIRCUIT BREAKERS MADE SPARE AS A RESULT OF DEMOLITION ACTIVITIES SHALL BE SWITCHED TO THE 'OFF' POSITION AND LABELED AS 'SPARE'.
15. RAISED CEILING: WHERE ARCHITECTURAL CEILING ARE TO BE RAISED, THE EC SHALL REWORK EXISTING OVERHEAD CONDUIT AND CONDUCTORS, IF ANY, TO ALLOW FOR THE CEILING TO BE RAISED.
16. HARD CEILING: WHERE NEW HARD CEILING IS TO BE INSTALLED, EC SHALL REWORK AND RELOCATE ALL JUNCTION BOXES OUT FROM ABOVE NEW HARD CEILING. NEW JUNCTION BOX LOCATIONS SHALL BE IN AN ACCESSIBLE AREA ABOVE CEILING.

DEMOLITION LEGEND:

- DISCONNECT AND REMOVE/RELOCATE EXISTING DEVICES, FIXTURES, AND EQUIPMENT TO ACCOMMODATE THE PROPOSED DESIGN INTENT. REFER TO THE FULL SET OF DEMOLITION AND PROPOSED PLANS FROM ALL TRADES FOR ADDITIONAL NOTES AND REQUIREMENTS.
- (d) SUBSCRIPT DENOTES EXISTING TO BE REMOVED. DISCONNECT AND REMOVE WIRE AND CONDUIT BACK TO SOURCE. MAINTAIN SERVICE TO REMAINING DEVICES.
 - (e) SUBSCRIPT DENOTES EXISTING TO REMAIN. MAINTAIN SERVICE VIA EXISTING CIRCUIT.
 - (r) SUBSCRIPT DENOTES EXISTING TO BE RELOCATED. MATCH EXISTING WIRING AND CONDUIT AND EXTEND TO PROPOSED LOCATION.
 - (er) SUBSCRIPT DENOTES EXISTING DEVICE/FIXTURE TO BE REPLACED IN SAME LOCATION AS EXISTING. DISCONNECT AND REMOVE EXISTING DEVICE/FIXTURE AND MAINTAIN SERVICE VIA EXISTING CIRCUIT.
 - DASHED LINES INDICATE EXISTING TO BE REMOVED, EXISTING TO BE RELOCATED, OR EXISTING TO BE REPLACED.
 - LIGHT LINES INDICATE EXISTING TO REMAIN.
 - GRAY SHADED AREAS INDICATE "NOT IN CONTRACT (N.I.C.)" AREAS. MAINTAIN CONTINUITY OF EXISTING SERVICES.



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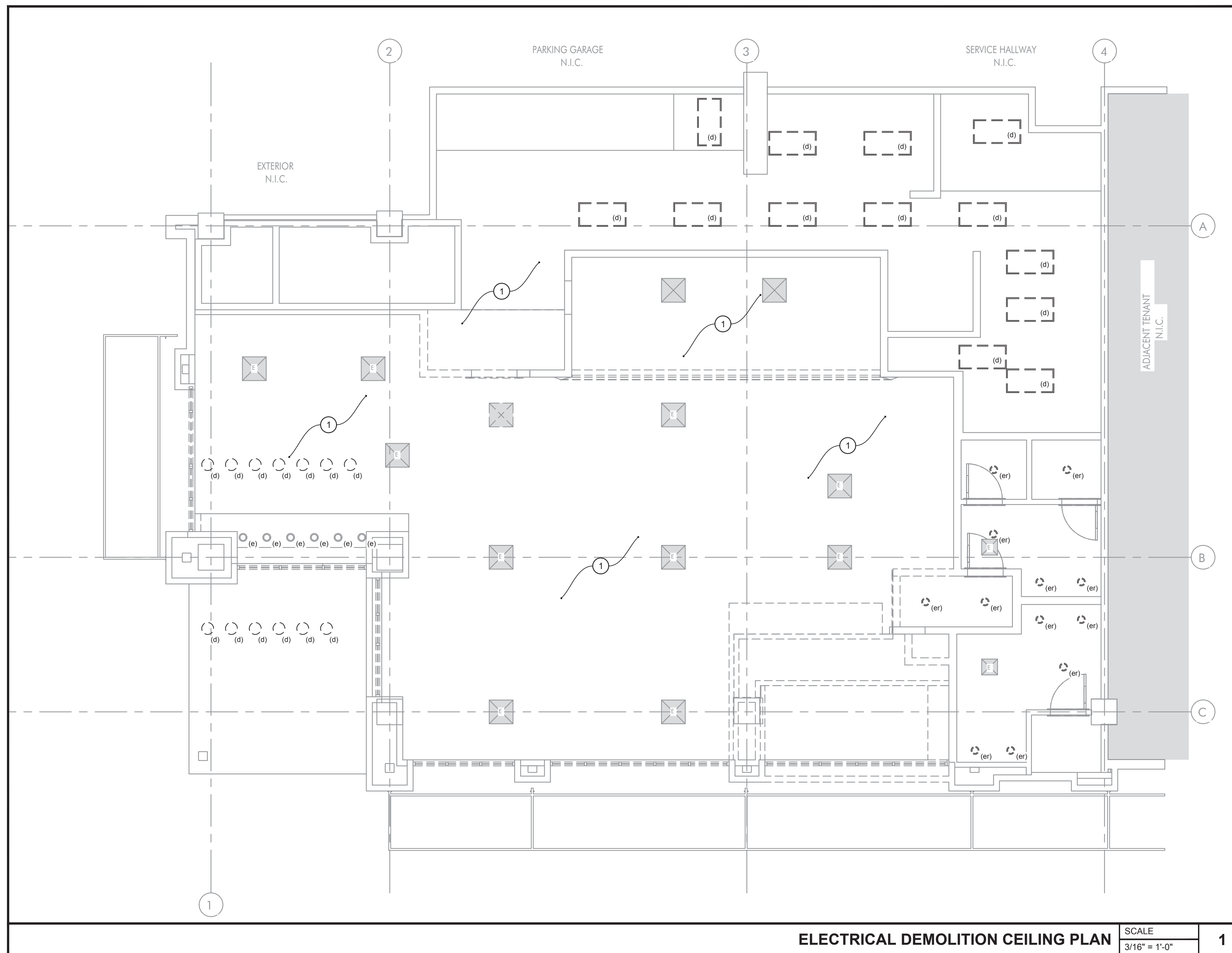


BN1580 JOJO'S SHAKE BAR

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SCOTTSDALE, AZ

02.09.2022 FLOOR PLAN

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KEYED NOTES:

① EXISTING LIGHT FIXTURE TO BE REMOVED. DISCONNECT AND REMOVE EXISTING INTERIOR LIGHTING IN THIS ROOM/AREA. ELECTRICAL CONTRACTOR SHALL SALVAGE BRANCH CIRCUIT FOR REUSE. COORDINATE WITH ARCHITECT FOR SCOPE OF WORK PRIOR TO START OF WORK.

- DEMOLITION NOTES:**
- COORDINATION:** DRAWINGS ARE TO BE USED ONLY AS A GUIDELINE FOR DEMOLITION. COORDINATE ALL DEMOLITION WORK WITH OTHER TRADES, WITH NEW WORK INDICATED ON CONSTRUCTION PLANS, AND WITH ACTUAL FIELD CONDITIONS.
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 - PANELBOARD CIRCUIT DIRECTORY:** ALL PANELBOARDS SHALL BE FURNISHED WITH REVISED TYPEWRITTEN CIRCUIT DIRECTORY CARDS WITH THE EQUIPMENT AND SPACE SERVED PROPERLY DESIGNATED. EXISTING EQUIPMENT SHALL BE RE-IDENTIFIED AS REQUIRED TO COORDINATE WITH PROPOSED DESIGN.
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- DEMOLITION LEGEND:**
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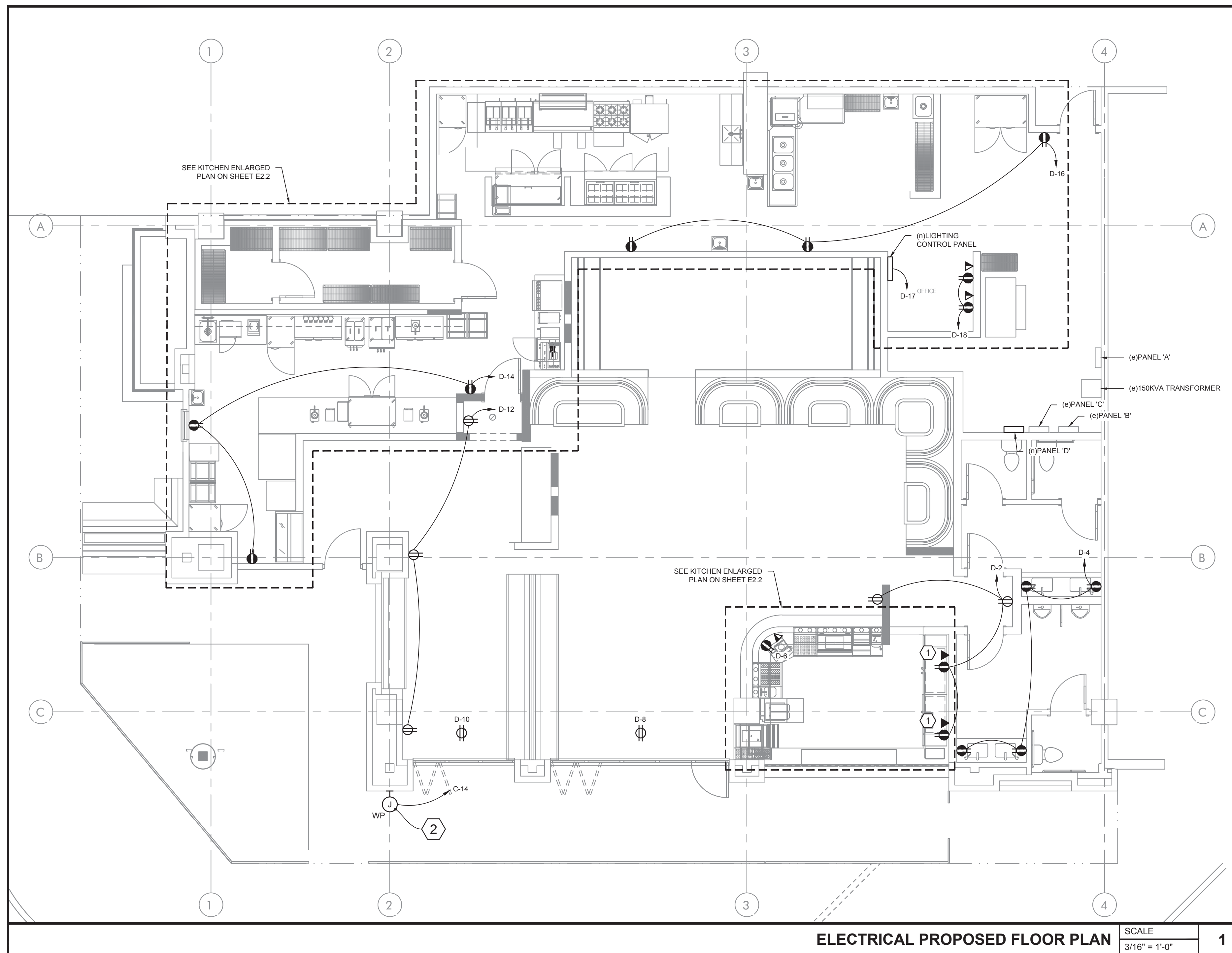


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02.09.2022 FLOOR PLAN

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ELECTRICAL PROPOSED FLOOR PLAN SCALE 3/16" = 1'-0" **1**

EXISTING CIRCUITING NOTE:

1. CIRCUIT NUMBERS OF EXISTING DEVICES AND EQUIPMENT COULD NOT BE DETERMINED DURING SITE VISIT.
2. CIRCUIT NUMBERS ON THIS PLAN ARE FOR CONVEYING DESIGN INTENT ONLY.
3. EC SHALL TRACE EXISTING CIRCUITS PRIOR TO START OF WORK AND CONNECT LOADS TO MAINTAIN THE DESIGN INTENT SHOWN.
4. TO THE GREATEST EXTENT POSSIBLE, EC SHALL REUSE EXISTING BRANCH CIRCUITS MADE SPARE FROM DEMOLITION WORK.

LOW VOLTAGE CONDUIT NOTE:

COORDINATE WITH LOW VOLTAGE CONTRACTOR FOR CONDUIT SIZE BASED ON THE NUMBER OF LOW VOLTAGE CONDUCTORS REQUIRED AND PROVIDE ACCORDINGLY.

NEW WORK LEGEND:

REFER TO PROPOSED PLANS FOR ADDITIONAL NOTES AND REQUIREMENTS. ALL DEVICES, FIXTURES, AND EQUIPMENT SHOWN ON THE PROPOSED ELECTRICAL PLAN IS NEW UNLESS NOTED OTHERWISE WITH THE BELOW DESIGNATIONS.

- (e) SUBSCRIPT DENOTES EXISTING TO REMAIN, MAINTAIN SERVICE VIA EXISTING CIRCUIT.
- (n) SUBSCRIPT DENOTES NEW.
- (r) SUBSCRIPT DENOTES EXISTING TO BE RELOCATED. MATCH EXISTING WIRING AND CONDUIT AND EXTEND TO PROPOSED LOCATION. WIRING DEVICES SHALL BE PROVIDED WITH NEW DEVICES AND COVER PLATES TO MATCH NEW WORK. LIGHT FIXTURES SHALL BE CLEANED AND RE-LAMPED.
- (er) SUBSCRIPT DENOTES EXISTING DEVICE/FIXTURE TO BE REPLACED IN SAME LOCATION AS EXISTING. RECONNECT NEW DEVICE/FIXTURE TO EXISTING CIRCUIT. WIRING DEVICES SHALL BE REPLACED WITH NEW DEVICES AND COVER PLATES TO MATCH NEW WORK. LIGHT FIXTURES SHALL BE REPLACED WITH NEW FIXTURES PER LIGHTING FIXTURE SCHEDULE.

— DARK LINES INDICATE NEW, EXISTING TO BE RELOCATED, OR EXISTING TO BE REPLACED.

— LIGHT LINES INDICATE EXISTING TO REMAIN.

KEYED NOTES:

- 1 TV: PROVIDE 120V, 20A RECEPTACLE AND DATA OUTLET FOR TV. COORDINATE WITH EQUIPMENT INSTALLER FOR EXACT LOCATION AND MOUNTING HEIGHT.
- 2 EXTERIOR BUILDING SIGN: PROVIDE 120V, 20A BRANCH CIRCUIT TO BUILDING SIGN AND MAKE ALL FINAL CONNECTIONS. EXTEND CIRCUIT THROUGH LIGHTING CONTRACTOR. REFER TO "WATTSTOPPER LMCP-8 LIGHTING CONTROL PANEL WIRING DIAGRAM" ON SHEET E4.1. COORDINATE LOCATION AND WIRING WITH SIGNAGE CONTRACTOR. PROVIDE LOCAL DISCONNECT SWITCH IF NOT INTEGRAL TO SIGN OR DRIVER. DISCONNECT SHALL BE MOUNTED OUT OF CUSTOMER VIEW.

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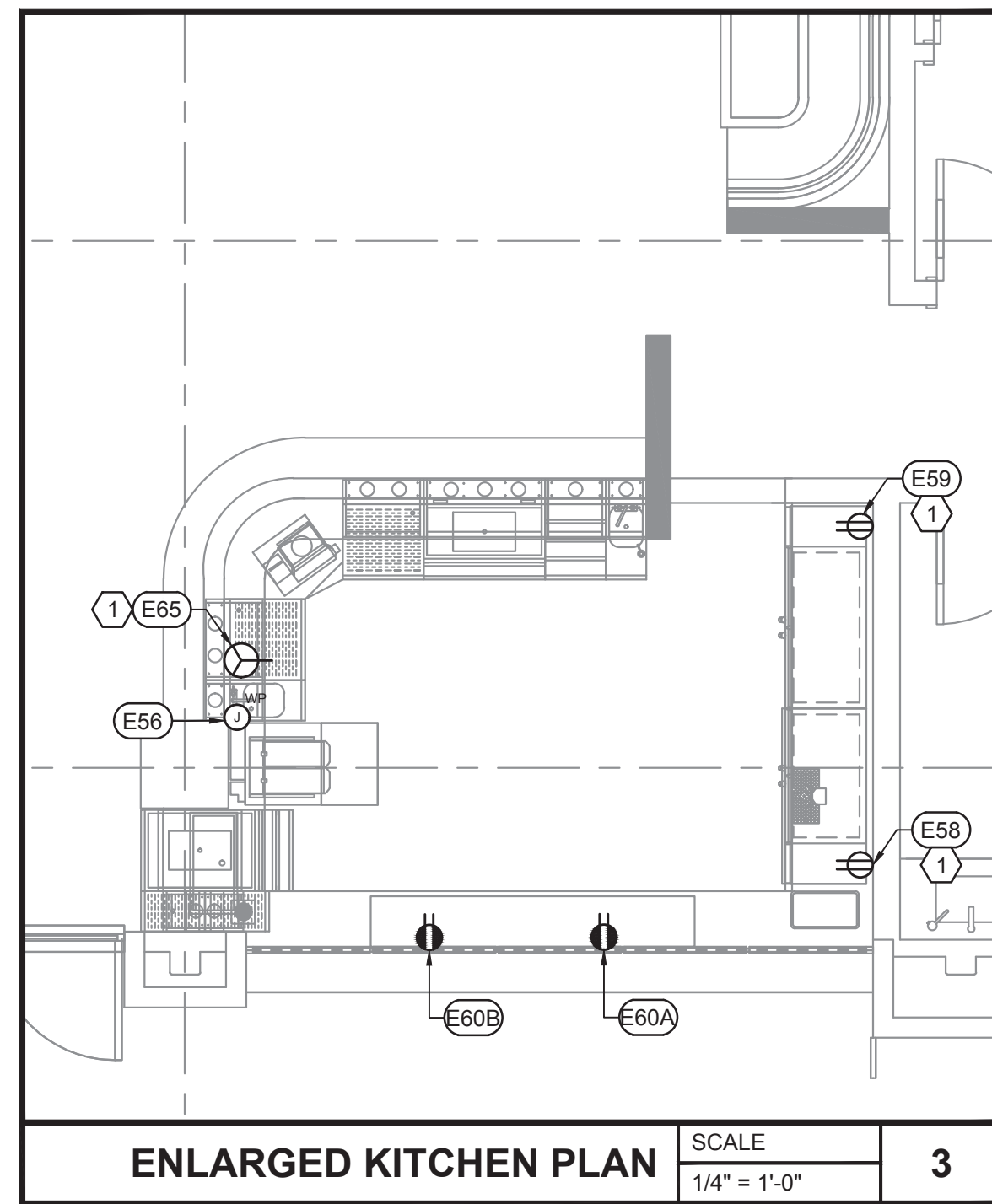
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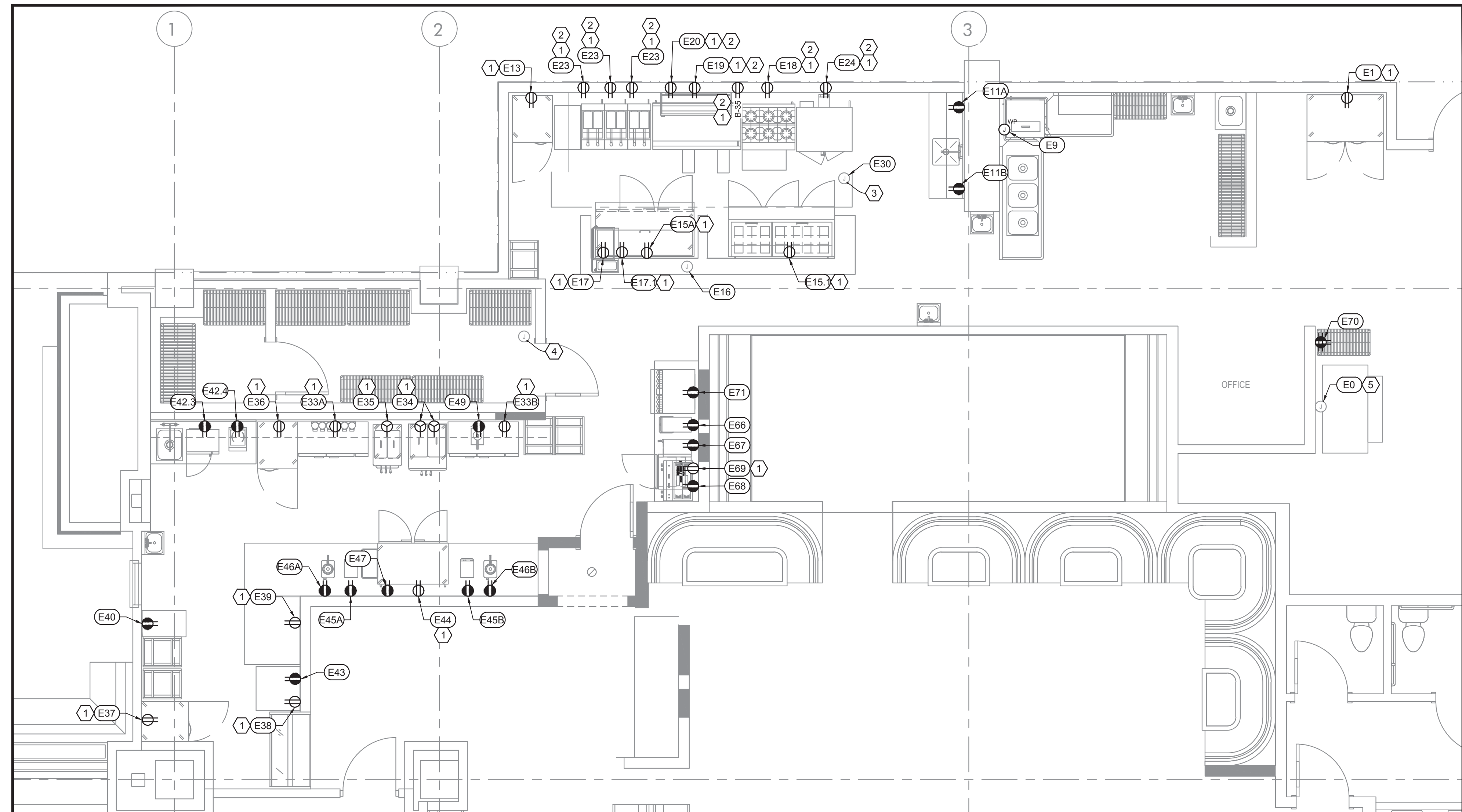
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02.09.2022 FLOOR PLAN



ENLARGED KITCHEN PLAN SCALE 1/4" = 1'-0" **3**

- KEYED NOTES:**
- 1 GFCI PROTECTED EQUIPMENT: GROUND FAULT PROTECTION SHALL BE PROVIDED BY GFCI TYPE CIRCUIT BREAKER. PROVIDE FACTORY ENGRAVED COVER PLATE WITH 'GFCI PROTECTED' LABEL.
 - 2 BRANCH CIRCUITS UNDER THE HOOD: INDICATED CIRCUITS SHALL BE ROUTED VIA RESETTABLE CONTACTORS WITH 120V COIL TO OPEN CIRCUITS UPON ACTIVATION OF FIRE SUPPRESSION HOOD. SEE WIRING DIAGRAM ON SHEET E3.1.
 - 3 EXISTING KITCHEN HOOD CONTROL PANEL: EXISTING KITCHEN HOOD SYSTEM TO REMAIN. VERIFY EXISTING EQUIPMENT CONDITION AND REPAIR/REPLACE AS REQUIRED.
 - 4 EXISTING WALK-IN COOLER/FREEZER: EXISTING WALK-IN COOLER/FREEZER TO REMAIN. VERIFY EXISTING EQUIPMENT CONDITION AND REPAIR/REPLACE AS REQUIRED.
 - 5 EXISTING KITCHEN EQUIPMENT: EXISTING KITCHEN EQUIPMENT TO REMAIN. VERIFY EXISTING EQUIPMENT AND ALL CONNECTION CONDITION AND REPAIR/REPLACE AS REQUIRED.



ENLARGED KITCHEN PLAN SCALE 1/4" = 1'-0" **1**

BAR EQUIPMENT ELECTRICAL SCHEDULE

DESCRIPTION	ITEM #	VOLTAGE/PH	LOAD/KW	RECEPTACLE	CIRCUIT #	CONNECTION TYPE	MOUNTING HEIGHT (AFF)	REMARKS
ICE MAKER W/ BIN	E0	208/1	1.77	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING ELECTRICAL CONNECTION TO REMAIN AS IS.
REACH-IN REFRIGERATOR	E1	120/1	1.43	5-20	C-2	PLUG-IN	24"	
WAREWASHER	E9	208/3	10.5	-	B-37,39,41	HARDWIRE	24"	PROVIDE NEMA 3R 60/3/60 FUSED DISCONNECT.
WORKTABLE WITH SINK	E11A	120/1	1.80	5-20	C-4	PLUG-IN	48"	CONVENIENCE OUTLETS
WORKTABLE WITH SINK	E11B	120/1	1.80	5-20	C-6	PLUG-IN	48"	CONVENIENCE OUTLETS
REACH-IN FREEZER	E13	120/1	1.31	5-20	C-8	PLUG-IN	24"	
EXHAUST HOOD	E14	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING ELECTRICAL CONNECTION TO REMAIN AS IS.
PIZZA PREP TABLE	E15	120/1	0.54	5-20	C-10(TIE)	PLUG-IN	24"	
MEGA TOP SANDWICH REFRIGERATOR	E15.1	120/1	0.65	5-20	C-10(TIE)	PLUG-IN	24"	
PASS THRU SHELF & HEAT LAMPS	E16	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING ELECTRICAL CONNECTION TO REMAIN AS IS.
FOOD WARMER	E17	120/1	1.20	5-20	D-22	PLUG-IN	24"	
FOOD WARMER	E17.1	120/1	0.55	5-20	D-24	PLUG-IN	24"	
6 BURNER RANGE	E18	120/1	1.80	5-20	B-1	PLUG-IN	24"	CONVENIENCE OUTLET
FLAT GRIDDLE	E19	120/1	1.80	5-20	B-3	PLUG-IN	24"	CONVENIENCE OUTLET
REFRIGERATED COOK STAND	E20	120/1	0.30	5-20	B-5	PLUG-IN	24"	
FRYERS	E23	(3) 120/1	(3) 0.18	(3) 5-20	B-7	PLUG-IN	24"	CONVENIENCE OUTLET
CONVECTION OVEN	E24	120/1	0.95	5-20	B-9	PLUG-IN	24"	
WALK-IN COOLER/FREEZER	E30	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING ELECTRICAL CONNECTION TO REMAIN AS IS.
BACKBAR COOLERS	E33A	120/1	0.28	5-20	C-18(TIE)	PLUG-IN	24"	
BACKBAR COOLERS	E33B	120/1	0.28	5-20	C-18(TIE)	PLUG-IN	24"	
SOFT SERVE ICE CREAM DISPENSER	E34	(2) 208/3	4.68/5.04	L15-15 & L15-20	C-22,24,26 C-28,30,32	PLUG-IN	24"	PROVIDE CORD & PLUG FOR EACH CONNECTION
SOFT SERVE ICE CREAM DISPENSER	E35	208/3	4.68	L15-15	C-1,3,5	PLUG-IN	24"	PROVIDE CORD & PLUG
REACH-IN REFRIGERATOR	E36	120/1	0.46	5-20	C-34(TIE)	PLUG-IN	24"	
REACH-IN FREEZER	E37	120/1	1.32	5-20	C-11	PLUG-IN	24"	
GELATO CABINET	E38	120/1	1.80	5-20	C-13	PLUG-IN	24"	
POPSICLE MACHINE	E39	208/1	6.00	6-30	C-21,23	PLUG-IN	24"	
WORKTABLE	E40	120/1	1.80	5-20	D-20	PLUG-IN	48"	CONVENIENCE OUTLETS
MICROWAVE OVEN	E42.3	120/1	1.68	5-20	C-31	PLUG-IN	48"	

INDUCTION COOKER	E42.4	120/1	1.80	5-20	C-33	PLUG-IN	48"	
WORKTABLE	E43	120/1	1.80	5-20	C-20	PLUG-IN	48"	CONVENIENCE OUTLETS
UNDERCOUNTER REFRIGERATOR	E44	120/1	0.36	5-20	C-34(TIE)	PLUG-IN	24"	
DRINK MIXERS	E45A	120/1	0.62	5-20	C-39(TIE)	PLUG-IN	48"	
DRINK MIXERS	E45B	120/1	0.62	5-20	C-39(TIE)	PLUG-IN	48"	
WHIPPED TOPPING DISPENSER	E46A	120/1	1.20	5-20	B-13	PLUG-IN	48"	
WHIPPED TOPPING DISPENSER	E46B	120/1	1.20	5-20	B-15	PLUG-IN	48"	
WORKTABLE	E47	120/1	1.80	5-20	B-11	PLUG-IN	48"	CONVENIENCE OUTLETS
HEATED DISPENSER	E49	120/1	1.00	5-20	B-17	PLUG-IN	48"	
GLASSWASHER	E56	208/1	5.14	J-BOX	B-2,4	HARDWIRE	12"	PROVIDE NEMA 3R 30/2/30 FUSED DISCONNECT.
BEER DISPENSER	E58	120/1	0.30	5-20	B-8(TIE)	PLUG-IN	24"	
BACK BAR COOLER	E59	120/1	0.30	5-20	B-8(TIE)	PLUG-IN	24"	
CABINET	E60A	120/1	1.80	5-20	B-6	PLUG-IN	48"	CONVENIENCE OUTLETS
CABINET	E60B	120/1	1.80	5-20	B-10	PLUG-IN	48"	CONVENIENCE OUTLETS
FROZEN BEVERAGE DISPENSER	E65	208/1	2.91	6-15	B-14,16	PLUG-IN	12"	PROVIDE CORD & PLUG
ICE TEA UNIT	E66	120/1	1.73	5-20	D-1	PLUG-IN	48"	
COFFEE MAKER	E67	120/1	2.10	5-20	D-3	PLUG-IN	48"	
ESPRESSO/CAPPUCCINO MACHINE	E68	208/1	3.75	-	D-5,7	HARDWIRE	48"	
UNDER COUNTER REFRIGERATOR	E69	120/1	0.16	5-20	D-9(TIE)	PLUG-IN	24"	
BAG-IN-BOX	E70	120/1	0.36	5-20	B-38	PLUG-IN	24"	
SODA AND ICE DISPENSER	E71	120/1	0.42	5-20	D-9(TIE)	PLUG-IN	24"	



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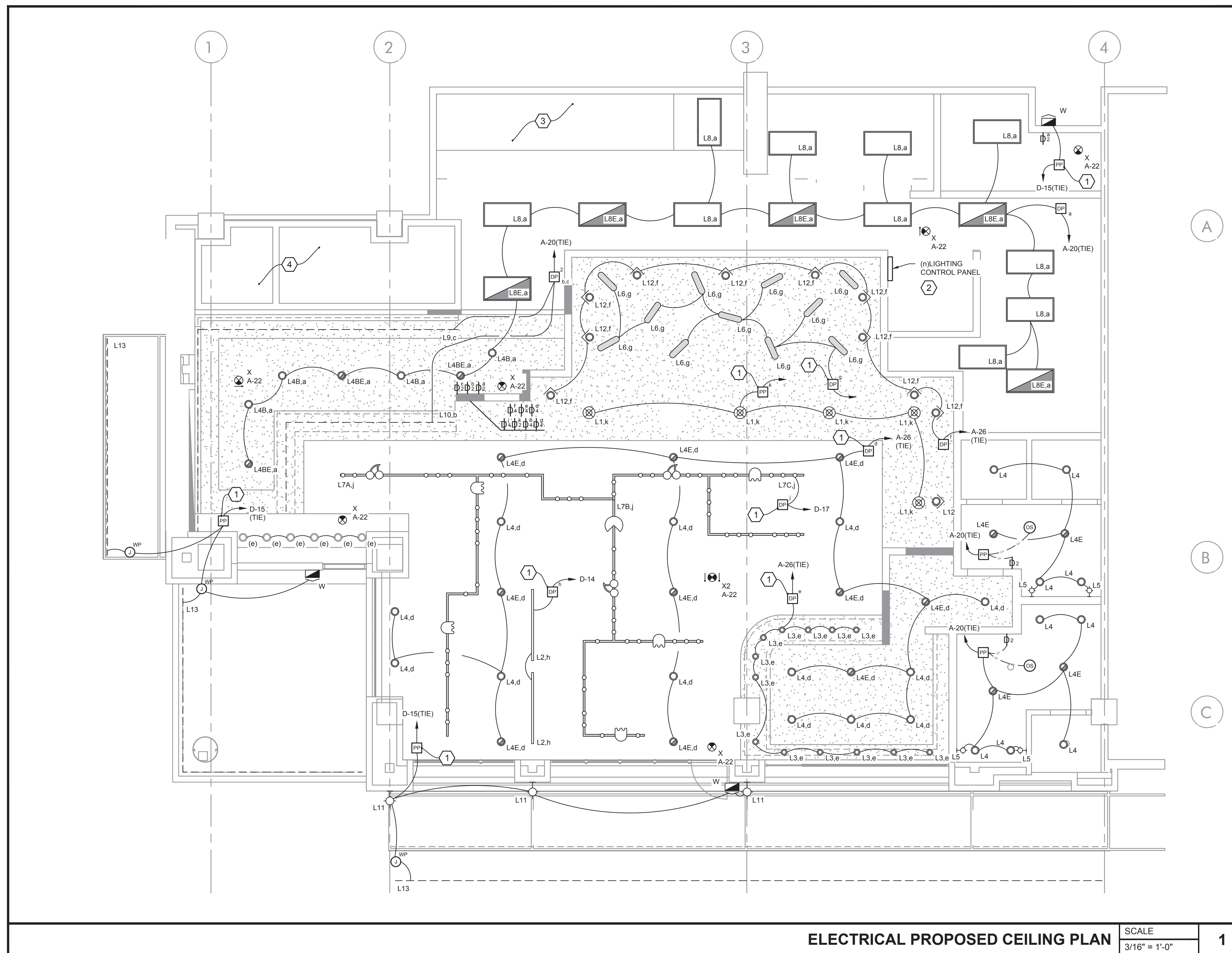
ANDREW MOHR, P.E.
AZ REG. NO. 68486



BN1580 JOJO'S SHAKE BAR

15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

02.09.2022 FLOOR PLAN



- SHEET NOTES:**
1. HALF SHADED OR FULLY SHADED LUMINAIRES SHALL BE PROVIDED WITH SELF-CONTAINED 90-MINUTE BACK-UP BATTERY PACKS.
 2. EMERGENCY LIGHTING FIXTURES SHALL SWITCH WITH LOCAL NORMAL LIGHTING UNLESS INDICATED AS "EMNL" OR "NL" (NIGHT LIGHT).
 3. EMERGENCY FIXTURES WITH INTEGRAL 90-MINUTE BATTERY PACKS SHALL BE PROVIDED WITH AN UN-SWITCHED HOT CONDUCTOR SO THAT EMERGENCY BATTERY PACK CAN CHARGE WHEN POWER TO THE LIGHT FIXTURES IS SWITCHED OFF.
 4. EXIT AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED TO UN-SWITCHED CIRCUIT AHEAD OF LIGHTING CONTROLLER.
 5. THE CIRCUIT NEUTRAL CONDUCTOR SHALL BE ROUTED TO EACH LINE VOLTAGE WALL SWITCH, WHERE THE WIRING DEVICE DOES NOT REQUIRE THE USE OF A NEUTRAL CONDUCTOR, CAP FOR FUTURE USE.

- NEW WORK LEGEND:**
- REFER TO PROPOSED PLANS FOR ADDITIONAL NOTES AND REQUIREMENTS. ALL DEVICES, FIXTURES, AND EQUIPMENT SHOWN ON THE PROPOSED ELECTRICAL PLAN IS NEW UNLESS NOTED OTHERWISE WITH THE BELOW DESIGNATIONS.
- (e) SUBSCRIPT DENOTES EXISTING TO REMAIN. MAINTAIN SERVICE VIA EXISTING CIRCUIT.
 - (n) SUBSCRIPT DENOTES NEW.
 - (r) SUBSCRIPT DENOTES EXISTING TO BE RELOCATED. MATCH EXISTING WIRING AND CONDUIT AND EXTEND TO PROPOSED LOCATION. WIRING DEVICES SHALL BE PROVIDED WITH NEW DEVICES AND COVER PLATES TO MATCH NEW WORK. LIGHT FIXTURES SHALL BE CLEANED AND RE-LAMPED.
 - (er) SUBSCRIPT DENOTES EXISTING DEVICE/FIXTURE TO BE REPLACED IN SAME LOCATION AS EXISTING. RECONNECT NEW DEVICE/FIXTURE TO EXISTING CIRCUIT. WIRING DEVICES SHALL BE REPLACED WITH NEW DEVICES AND COVER PLATES TO MATCH NEW WORK. LIGHT FIXTURES SHALL BE REPLACED WITH NEW FIXTURES PER LIGHTING FIXTURE SCHEDULE.
- DARK LINES INDICATE NEW, EXISTING TO BE RELOCATED, OR EXISTING TO BE REPLACED.
 - - - LIGHT LINES INDICATE EXISTING TO REMAIN.

- KEYED NOTES:**
- 1 TIME-OF-DAY CIRCUIT: CONNECT THIS CIRCUIT THROUGH LIGHTING CONTROL PANEL FOR TIME-OF-DAY CONTROL. REFER TO "WATTSTOPPER LMCP-8 LIGHTING CONTROL PANEL WIRING DIAGRAM" ON SHEET E4.1.
 - 2 LIGHTING CONTROL PANEL: REFER TO "WATTSTOPPER LMCP-8 LIGHTING CONTROL PANEL WIRING DIAGRAM" ON SHEET E4.1 FOR CONNECTION.
 - 3 HOOD LIGHTS: ALL HOOD LIGHTS ARE EXISTING TO REMAIN. EC SHALL VERIFY EXISTING CONDITION. REPAIR/REPLACE AS REQUIRED. VERIFY LIGHTS ARE ROUTED VIA RESETTABLE CONTACTORS TO OPEN CIRCUITS UPON ACTIVATION OF FIRE SUPPRESSION HOOD. REWIRE LIGHTING CIRCUIT AS REQUIRED.
 - 4 WALK-IN COOLER/FREEZER LIGHTS: ALL WALK-IN COOLER/FREEZER LIGHTS ARE EXISTING TO REMAIN. EC SHALL VERIFY EXISTING CONDITION. REPAIR/REPLACE AS REQUIRED.



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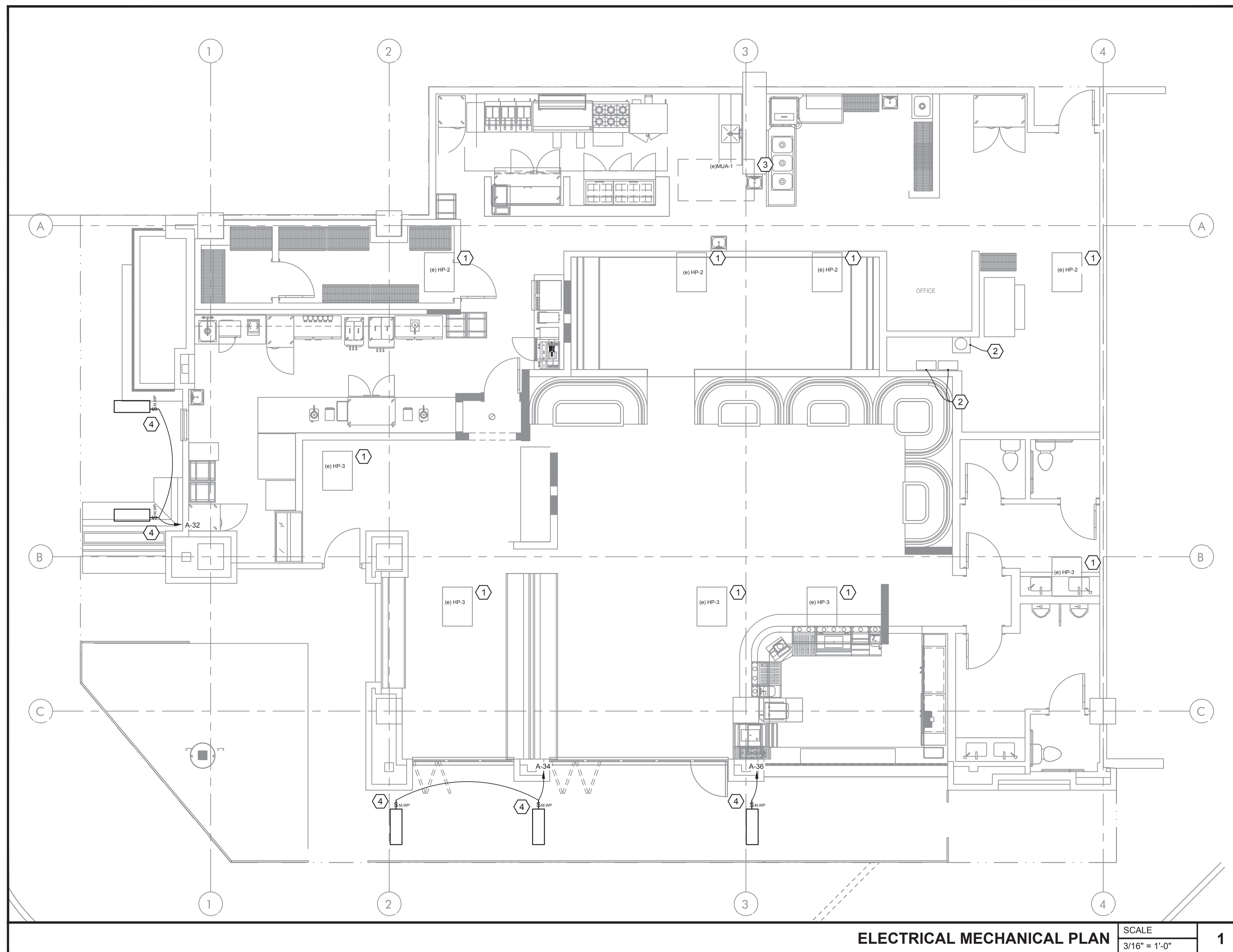
ANDREW MOHR, P.E.
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 SCOTTSDALE, AZ

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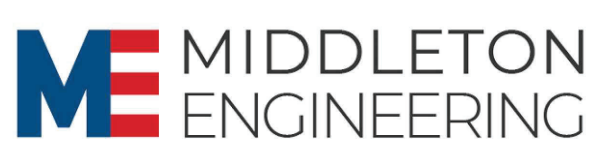
SHEET NOTES:

1. EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THEIR ELECTRICAL CONNECTIONS SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR.
2. COORDINATE WITH MECHANICAL CONTRACTOR FOR MECHANICAL EQUIPMENT DISCONNECT SWITCH RESPONSIBILITIES. FINAL ELECTRICAL INSTALLATION AND CONNECTIONS BY ELECTRICAL CONTRACTOR.
3. PROVIDE APPROPRIATE TRIM RING AND 3/4" CONDUIT WITH INSULATED CONDUIT BUSHINGS AND PULL STRING TO ACCESSIBLE CEILING FOR EACH THERMOSTAT. REFER TO MECHANICAL PLAN FOR THERMOSTAT QUANTITIES AND LOCATIONS. IN AREAS WITH OPEN CEILINGS, A COMPLETE CONDUIT SYSTEM SHALL BE PROVIDED FROM THE THERMOSTAT TO THE MECHANICAL UNIT; FREE-WIRING IS NOT ACCEPTABLE.
4. ELECTRICAL CONTRACTOR'S BID SHALL INCLUDE POWER TO ALL MISCELLANEOUS MECHANICAL AND PLUMBING EQUIPMENT ACCESSORIES AND AUXILIARY LOADS WHICH MAY NOT BE REFLECTED IN THE ELECTRICAL PLANS BUT NECESSARY FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM. NO CHANGE ORDERS WILL BE CONSIDERED.

KEYED NOTES:

- ① EXISTING MECHANICAL EQUIPMENT TO REMAIN; EC SHALL VERIFY EXISTING EQUIPMENT CONDITION INCLUDING DISCONNECT SWITCH AND WIRING. REPLACE/REPAIR AS REQUIRE.
- ② EXISTING PLUMBING EQUIPMENT TO REMAIN; EC SHALL VERIFY EXISTING EQUIPMENT CONDITION INCLUDING EQUIPMENT CONNECTION AND WIRING. REPLACE/REPAIR AS REQUIRE.
- ③ KITCHEN HOOD MAKE-UP AIR TO REMAIN; EC SHALL VERIFY EXISTING EQUIPMENT CONDITION INCLUDING EQUIPMENT CONNECTION AND WIRING. REPLACE/REPAIR AS REQUIRE. VERIFY MAKE-UP AIR IS ROUTED THROUGH HOOD CONTROL PANEL AND MUA UNIT IS DE-ENERGIZED UPON ACTIVATION OF FIRE SUPPRESSION HOOD. RE-WIRE AS REQUIRED.
- ④ PATIO HEATER: PROVIDE MOTOR RATED WEATHER PROOF SWITCH IF UNIT IS NOT PROVIDED BY FACTORY OR MECHANICAL CONTRACTOR. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.

ELECTRICAL MECHANICAL PLAN SCALE 3/16" = 1'-0" **1**



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BN1580 JOJO'S SHAKE BAR

15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

02.09.2022 FLOOR PLAN

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PANELBOARD: B (EXISTING)															FAULT CURRENT: EXISTING			EXISTING											
BUS AMPS: 225A															AIC RATING: EXISTING														
MAIN SIZE/TYP: 225A MCB															SERVES:														
VOLTS/PHASE: 208Y/120V, 3PH, 4W															MOUNTING: SURFACE			ENCLOSURE: NEMA 1											
SECTION: 1															LOCATION:														
CKT NO.	DESCRIPTION	CONDUCTOR & CONDUIT					BREAKER			VOLTAMPS/PHASE			BREAKER			CONDUCTOR & CONDUIT					DESCRIPTION	CKT NO.							
		PH	NEUT	GND	IG	COND	TYP	AMP	POLE	A	B	C	A	B	C	POLE	AMP	TYP	COND	IG			GND	NEUT	PH				
1	KIT-6 BURNER RANGE(E18)	12	12	12	--	3/4"	GFCI	20	1	1,800			2,570			2	30	3/4"	--	12	12	12	10	10	KIT-GLASSWASHER(E56)	2			
3	KIT-FLAT GRID(S19)	12	12	12	--	3/4"	GFCI	20	1	1,800			2,570	1,980		1	20	3/4"	--	12	12	12	12	12	KIT-CABINET(E60A)	4			
5	REF-REFRI COOK STAND(E20)	12	12	12	--	3/4"	GFCI	20	1	540	300		600	1,980		1	20	GFCI	3/4"	--	12	12	12	12	12	REF-BEERS COOLER(E58,59)	8		
7	KIT-FRYER(E23)	12	12	12	--	3/4"	GFCI	20	1	540	950		600	1,800		1	20	3/4"	--	12	12	12	12	12	KIT-CABINET(E60B)	10			
9	KIT-CONVECT OVEN(E24)	12	12	12	--	3/4"	GFCI	20	1				1,200	1,200		1	20	ex	ex	--	ex	ex	ex	12	12	KIT-FROZEN BEV DISP (E65)	14		
11	KIT-WORK TABKE(E47)	12	12	12	--	3/4"		20	1		1,800															WATER SOFTENER	12		
13	KIT-WHIPPED DISP(E46A)	12	12	12	--	3/4"		20	1	1,200			1,455	1,455		2	15	GFCI	3/4"	--	12	--	12	--	12	12	ANSUL CONTROL	18	
15	KIT-WHIPPED DISP(E46B)	12	12	12	--	3/4"		20	1	1,200			1,455	1,455		2	15	GFCI	3/4"	--	12	--	12	--	12	12	ANSUL HOOD LIGHTS	20	
17	KIT-HEATED DISP(E49)	12	12	12	--	3/4"		20	1		1,000		500	200		1	20	ex	ex	--	ex	ex	ex	12	12	ANSUL HOOD LIGHTS	22		
19	KITCHEN HOOD & EXHAUST FAN	ex	ex	ex	--	ex	ex	30	3	2,520	2,520		1,680	1,680		3	20	ex	ex	--	ex	ex	ex	12	12	COMPRESSOR WALK-IN FRIDGE	24		
21	FAN<G WALK-IN FRIDGE	ex	ex	ex	--	ex	ex	20	1	800			1,680	1,680		3	20	ex	ex	--	ex	ex	ex	12	12	COMPRESSOR WALK-IN FREEZER	28		
23	FAN<G WALK-IN FREEZER	ex	ex	ex	--	ex	ex	20	1	1,200			1,680	1,680		3	20	ex	ex	--	ex	ex	ex	12	12	COMPRESSOR WALK-IN FREEZER	30		
25	LOW VOLTAGE STERIO EQ	ex	ex	ex	--	ex	ex	20	1	500			1,680	500		2	20	ex	ex	--	ex	ex	ex	12	12	TIME CLOCK WALK-IN FREEZER	34		
27	LOW VOLTAGE STERIO EQ	ex	ex	ex	--	ex	ex	20	1	500			1,680	500		2	20	ex	ex	--	ex	ex	ex	12	12	TIME CLOCK WALK-IN FREEZER	36		
29	LOW VOLTAGE STERIO EQ	ex	ex	ex	--	ex	ex	20	1	500			1,680	500		2	20	ex	ex	--	ex	ex	ex	12	12	TIME CLOCK WALK-IN FREEZER	38		
31	LOW VOLTAGE STERIO EQ	ex	ex	ex	--	ex	ex	20	1	500			1,680	500		2	20	ex	ex	--	ex	ex	ex	12	12	TIME CLOCK WALK-IN FREEZER	40		
33	LOW VOLTAGE STERIO EQ	ex	ex	ex	--	ex	ex	20	1	500			1,680	500		2	20	ex	ex	--	ex	ex	ex	12	12	TIME CLOCK WALK-IN FREEZER	42		
35	KIT-GAS SOLENOID VALV	12	12	12	--	3/4"	GFCI	20	1		500		360	500		1	20	3/4"	--	12	12	12	12	12	KIT-BAG-IN-BOX	38			
37	WAREWASHER(E9)	4			--	1"		60	3	3,500			900													TELEPHONE POWER	40		
39	WAREWASHER(E9)	4			--	1"		60	3	3,500			900													SPARE	42		
41	WAREWASHER(E9)	4			--	1"		60	3	3,500			900													SPARE	42		
SUBTOTAL										10,880	11,670	10,120	8,845	10,585	7,240	SUBTOTAL													
LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF	LOAD		CONN. VA	DF		
COOLING			1.00	REFRIGERATION		12,980	1.00	SIGN/DISPLAY		42,060	0.65	EXISTING			1.00	LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PHASE A - VA		19,705		
HEATING			1.25	KITCHEN		42,060	0.65	EXISTING			1.00	LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PHASE B - VA		22,255	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA	
LIGHTING			1.25	KITCHEN		42,060	0.65	EXISTING			1.00	LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA	
RECEPTACLES		1,080	1.0/5	EXISTING			1.00	LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA		
MOTORS			1.00	LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
WATER HEATER			1.00	LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
MSC EQUIP		3,700	1.00	LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL DEMAND	45,099 VA
				LARGEST MOTOR		1.25	SHOW WINDOW		1.25	LTG TRACK		1.00	TOTAL PNLBD - VA		59,320	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL PHASE C - VA		17,360	TOTAL				

SENSOR SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	RATINGS	NOTES
Φ ₁	DIGITAL WALL SWITCH, ON/OFF/RAISE/LOWER, DLM	WATTSTOPPER	LMDM-101	WALL	--	COLOR TO BE SELECTED BY ARCHITECT/OWNER
Φ ₂	DIGITAL WALL SWITCH, ONE-BUTTON, ON/OFF, DLM	WATTSTOPPER	LMSW-101	WALL	--	COLOR TO BE SELECTED BY ARCHITECT/OWNER
DP	DIMMING PACK: DIGITAL ON/OFF/RAISE/LOWER 0-10V DIMMING ROOM CONTROLLER, ONE, TWO, OR THREE RELAY, DLM	WATTSTOPPER	ONE RELAY: LMRC-211 TWO RELAY: LMRC-212 THREE RELAY: LMRC-213	ABOVE CEILING	@120V, 20A**, 1HP @277V, 20A**, 1HP **16A FOR E-BALLAST, TOTAL LOAD PER ROOM CONTROLLER	NOTE 1
DP	POWER PACK: DIGITAL ON/OFF NON-DIMMING ROOM CONTROLLER, ONE OR TWO RELAY, DLM	WATTSTOPPER	ONE RELAY: LMRC-101 TWO RELAY: LMRC-102	ABOVE CEILING	@120V, 20A**, 1HP @277V, 20A**, 1HP **16A FOR E-BALLAST, TOTAL LOAD PER ROOM CONTROLLER	NOTE 1

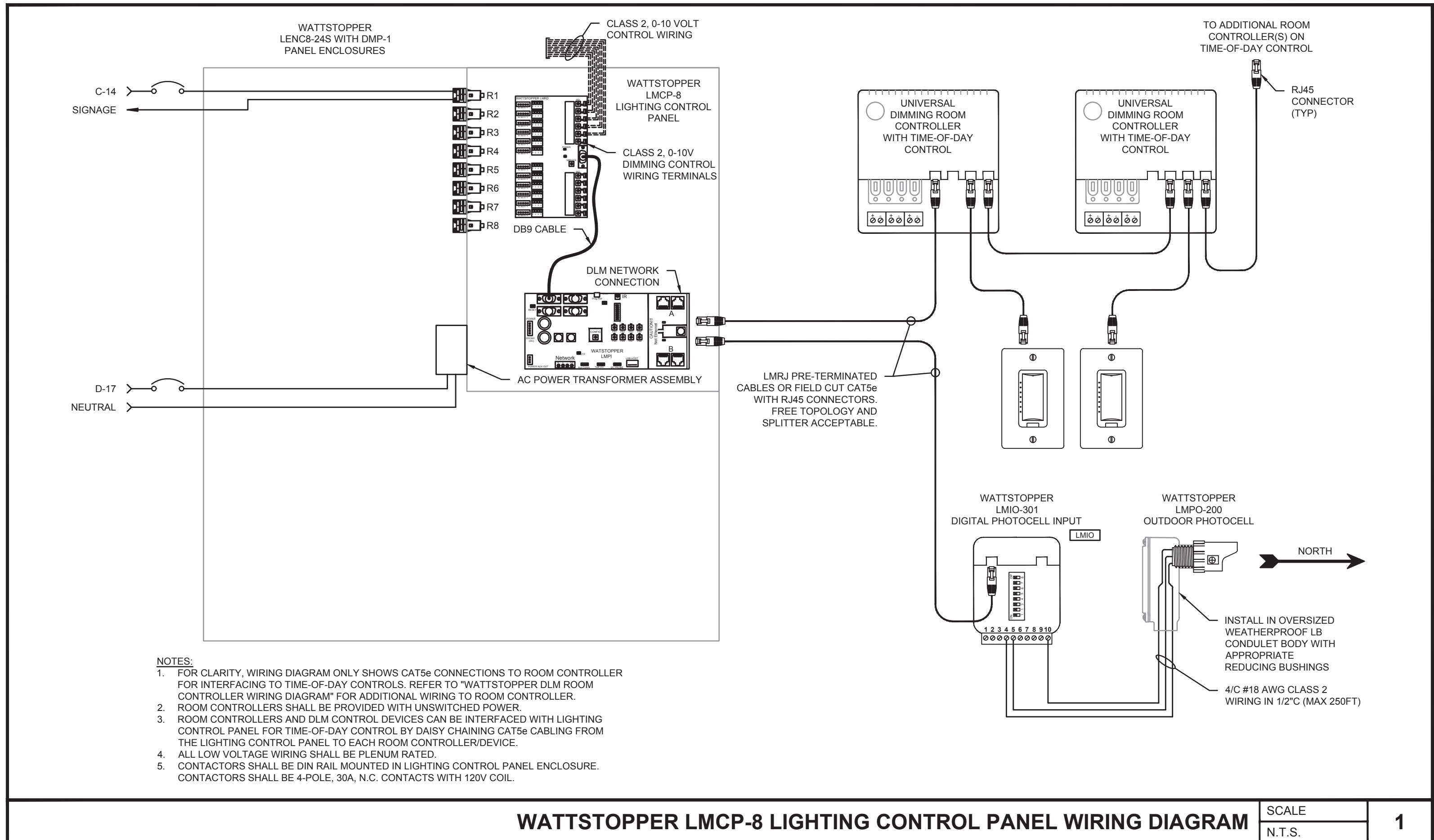
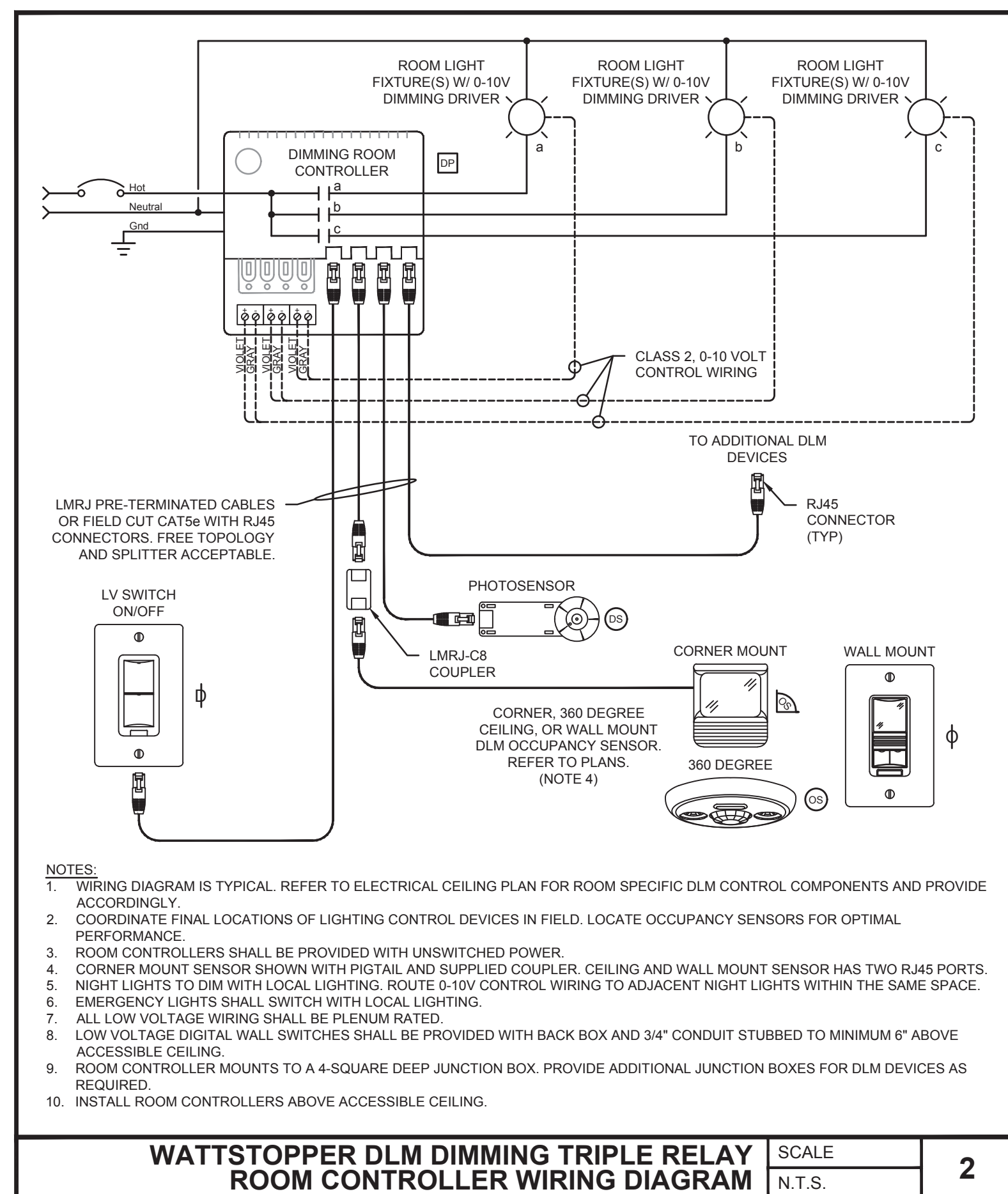
GENERAL NOTES:
 A. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT NECESSARILY BE REFLECTED IN CATALOG NUMBER AND/OR DESCRIPTION IN THE SCHEDULE.
 B. PROVIDE ALL LIGHTING CONTROL COMPONENTS TO PERFORM FUNCTION AS DESCRIBED ON THESE PLANS. PROVIDE ALL BRIDGES, GATEWAYS, POWER SUPPLIES, POWER PACKS / ROOM CONTROLLERS, ACCESSORIES, AND PROGRAMMING FOR A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. LIGHTING CONTROLS ARE INDICATED FOR DESIGN INTENT ONLY. EC SHALL PROVIDE SHOP DRAWINGS AND PRODUCT CUTSHEETS FOR REVIEW BY THE ENGINEER. PROVIDE DETAILED DESCRIPTIONS OF LIGHTING FUNCTIONS FOR EACH ROOM.
 C. PROVIDE ALL PROGRAMMING, COMMISSIONING, AND TRAINING OF LIGHTING CONTROLS AS REQUIRED BY THESE PLANS, OWNER AND LANDLORD REQUIREMENTS, AND ENERGY CODE.
 D. LIGHTING CONTROL SYSTEM FUNCTIONAL TESTING SHALL BE PROVIDED AND DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PERFORMANCE CRITERIA OF THE PLANS AND SPECIFICATIONS SHALL BE PROVIDED TO THE OWNER AND ENGINEER WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
 E. POWER PACKS / ROOM CONTROLLERS ARE INDICATED ON PLANS AS SINGLE RELAY UNITS FOR CLARITY ONLY. MULTI-RELAY POWER PACKS / ROOM CONTROLLERS MAY BE USED IN LIEU OF SINGLE RELAY UNITS. COORDINATE WITH MANUFACTURER FOR SELECTIONS.

NOTES:
 1. SELECT APPROPRIATE NUMBER OF CONTACTS BASED ON APPLICATION.
 2. FOR DUAL AND TRIPLE CONTACT APPLICATION, CONNECT SINGLE POLE PACKS TOGETHER VIA CAT 5 BUS.

LIGHTING FIXTURE SCHEDULE

LABEL	DESCRIPTION	LIGHT FIXTURE		MOUNTING	DIMMING	QTY. OF LAMPS	VOLTS	WATTS	NOTES
		MFG.	MODEL NUMBER						
L1	SHADOWS COLLECTION PENDANT LIGHT	BROKIS	SHADOWS PENDANT	PENDANT	-	LED BULB	120	11	*COORDINATE W/ ARCHITECT FOR COLOR SELECTION AND ORDERING
L2	LED TOOB TUBE PENDANT	CDS LIGHTING	TOOB-P-6L-40K--GD-USV	PENDANT	0-10V	LED	120-277	40	*COORDINATE W/ ARCHITECT FOR LENGTH OF STRING
L3	LED UNDERCABINET PUCK LIGHT	LITON	LIGHT: LK136LED-B-T40 POWER SUPPLY: LD533V024-1227-60-D10	RECESSED	0-10V	LED	120/277	2.25	*FEED THROUGH POWER SUPPLY **PROVIDE ADDITIONAL CONNECTION AS REQUIRED PER MANUFACTURER.
L4	6" LED DOWNLIGHT, 1500 LUMENS, 0-10V, 4000K	LITON	CH6LS1022-UE-D10-CLR6L22-WW-TS354	RECESSED	0-10V	LED	120/277	18	SET COLOR TEMPERATURE TO 4000K
L4E	6" LED DOWNLIGHT, 1500 LUMENS, 0-10V, 4000K WITH EMERGENCY BATTERY BACK-UP	LITON	CH6LS1022-UE-D10-EM-CLR6L22-WW-EMA-TS354	RECESSED	0-10V	LED	120/277	18	SET COLOR TEMPERATURE TO 4000K
L4B	6" LED DOWNLIGHT, 3600 LUMENS, 0-10V, 4000K	LITON	CH6LS3040-UE-D10-CLR6L40-WW-TS354	RECESSED	0-10V	LED	120/277	48	SET COLOR TEMPERATURE TO 4000K
L4BE	6" LED DOWNLIGHT, 3600 LUMENS, 0-10V, 4000K WITH EMERGENCY BATTERY BACK-UP	LITON	CH6LS1022-UE-D10-EM-CLR6L40-WW-EMA-TS354	RECESSED	0-10V	LED	120/277	48	SET COLOR TEMPERATURE TO 4000K
L5	LED VANITY LIGHT	NOVEL	VL72237	WALL	0-10V	LED	120	40	
L6	SURFACE LIGHT FIXTURE	TBD	TBD	SURFACE	0-10V	LED	120	30	
L7A	MAGNETIC TRACK LIGHT WITH 200W DRIVER AND 22 HEADS	LIGHTING ELEMENTS	TRACK SYSTEM: TRACK-S--M200-BK** GLOBAL TRACK HEAD: G-40K-BK** DRIVER BOX: M200-BK**	WALL	0-10V	LED	120	5W PER HEAD	*SEE PLAN FOR LENGTH **CONFIRM FINISH WITH ARCHITECT
L7B	MAGNETIC TRACK LIGHT WITH 200W DRIVER AND 17 HEADS	LIGHTING ELEMENTS	TRACK SYSTEM: TRACK-S--M200-BK** GLOBAL TRACK HEAD: G-40K-BK** DRIVER BOX: M200-BK**	WALL	0-10V	LED	120	5W PER HEAD	*SEE PLAN FOR LENGTH **CONFIRM FINISH WITH ARCHITECT
L7C	MAGNETIC TRACK LIGHT WITH 200W DRIVER AND 20 HEADS	LIGHTING ELEMENTS	TRACK SYSTEM: TRACK-S--M200-BK** GLOBAL TRACK HEAD: G-40K-BK** DRIVER BOX: M200-BK**	WALL	0-10V	LED	120	5W PER HEAD	*SEE PLAN FOR LENGTH **CONFIRM FINISH WITH ARCHITECT
L8	RECESS LED 2'X4' PANEL, 5400 LUMENS, 0-10V, 4000K	DAY-BRITE	2FPZ-54L-840-4-DS-UNV-DIM	RECESSED	0-10V	LED	120-277	42	
L8E	RECESS LED 2'X4' PANEL, 5400 LUMENS, 0-10V, 4000K WITH EMERGENCY BATTERY BACK-UP	DAY-BRITE	2FPZ-54L-840-4-DS-UNV-DIM-BSL10LST	RECESSED	0-10V	LED	120-277	42	
L9	LED WALL GRAZER RGBW	PURE EDGE LIGHTING	SH4-SP4-RGB	SURFACE	0-10V	LED	120-277	15W/FT	COORDINATE TOTAL LENGTH WITH PLAN
L10	RECESSED LED CHANNEL RGBW	CONTECH LIGHTING	LIGHT: TLT12V1RGB POWER SUPPLY: (2) TLP12VHM	RECESSED	0-10V	LED	120-277	3.9W/FT	COORDINATE TOTAL LENGTH WITH PLAN
L11	LED OUTDOOR CITY STREETS WALL SCONCE	THE GREAT OUTDOORS	73182-66-L	WALL	-	LED BULB	120	12	FURNISHED WITH LED BULB
L12	6" LED WALLWASH, 1500 LUMENS, 0-10V, 4000K	LITON	CH6LS1022-UE-D10-CLR6L22-WW-TS354 P-CR67ZSW	RECESSED	0-10V	LED	120/277	18	SET COLOR TEMPERATURE TO 4000K
L13	48" STRING LIGHT 48 SOCKETS KIT WITH LED 0.8W E26 LAMPS	DURA LAMP	DL-DL-MD-12-BK-DURALED STARGAZER	STRING	-	LED BULB	120	38	PROVIDE AIRCRAFT CABLE TO SUPPORT STRING AS NEEDED.
W	WET LOCATION ARCHITECTURAL EMERGENCY WALLPACK. WET LOCATION RATED. PHOTOCELL INCLUDED	BEGHELLI	MEZ-LED-SA-DBZ-120-277V	WALL	-	LED	120-277	12	
X	LED SINGLE FACE EXIT WITH BATTERY BACK-UP, WHITE HOUSING	CONTECH LIGHTING	REXA-SF-R-EM-P	RECESSED	-	LED	120/277	3	
X2	LED SINGLE FACE EXIT WITH BATTERY BACK-UP, WHITE HOUSING	CONTECH LIGHTING	REXA-DF-R-EM-P	RECESSED	-	LED	120/277	3	

FOR FIXTURE TYPE L2, L6, L7A, L7B, AND L7C, USE BELOW CONTACT FOR ORDERING.
 JASON DAVIS
 SPECIFICATION SALES MANAGER
 ILLUMINATION SYSTEMS ARIZONA
 602.715.0506
 JASON.DAVIS@ISARIZONA.COM



PLUMBING SPECIFICATIONS:

PART 1 - GENERAL

1.1 SUBMITTALS

- PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

- COMPLY WITH REQUIREMENTS IN "PLUMBING PIPING SCHEDULE" ARTICLE FOR APPLICATIONS OF PIPE, TUBE, AND FITTING MATERIALS, AND FOR JOINING METHODS, INSULATION, AND HANGING REQUIREMENTS FOR SPECIFIC SERVICES, SERVICE LOCATIONS, AND PIPE SIZES.

2.2 VALVES

- NSF COMPLIANCE: NSF 61 FOR VALVE MATERIALS FOR POTABLE WATER SERVICE.
- WATER SHUTOFF SERVICE: TWO-PIECE, FULL PORT, BRASS BALL VALVES WITH BRASS TRIM.
- CHECK VALVES: BRASS SILENT CHECK VALVES WITH NONMETALLIC DISC SUITABLE FOR HORIZONTAL OR VERTICAL INSTALLATION.
- FUEL GAS SHUTOFF SERVICE: TWO-PIECE, FULL PORT, BRASS BALL VALVES WITH BRASS TRIM, UL LISTED FOR GAS SERVICE.
- FUEL GAS PRESSURE REGULATORS: COMMERCIAL STYLE REGULATORS WITH INTERNAL PRESSURE RELIEF VALVES.

2.3 HANGERS AND SUPPORTS

- PROVIDE HANGERS INDICATED ON DRAWINGS.
- WALL SUPPORTS
 - PIPING 3" AND SMALLER: STEEL RISER CLAMP.
 - VERTICAL SUPPORT: STEEL RISER CLAMP.

PART 3 - EXECUTION

3.1 PIPING INSTALLATION

- INSTALL ESCUTCHEONS AT EACH WALL, FLOOR, AND CEILING PENETRATION IN EXPOSED FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. USE DEEP PATTERN ESCUTCHEONS WHERE REQUIRED TO CONCEAL PROTRUDING PIPE FITTINGS.
- INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.
- INSTALL SLEEVE SEALS FOR PIPING PENETRATIONS OF CONCRETE WALLS AND SLABS.
- MAKE SOLDERED JOINTS USING LEAD FREE SOLDER AND A NON-CORROSIVE, PASTE-TYPE FLUX. CORE SOLDER IS NOT PERMITTED SOLDER SHALL BE SOLID STRING OR WIRE TYPE. WHERE SOLDERED COPPER PIPING IS CONNECTED TO THREADED BRASS PIPING, USE CAST BRASS ADAPTOR.
- PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF EACH DAY OR WHEN WORK STOPS.
- MINIMUM SLOPE OF HORIZONTAL DRAIN PIPING SHALL BE 1/4" PER FOOT FOR PIPING 2-1/2" OR LESS, 1/8" PER FOOT FOR PIPING 3" TO 6", AND 1/16" PER FOOT FOR PIPING 8" OR LARGER.
- MAKE CHANGES IN DIRECTION IN DRAIN PIPING WITH INDIVIDUAL EIGHT BENDS AND WYES.
- QUARTER BENDS, SWEEPS, TEES, AND COMBINATION WYE & EIGHT BEND FITTINGS ARE NOT PERMITTED FOR USE ON DRAIN PIPING.
- EXTEND RIGID GAS PIPING TO EXTERIOR GAS APPLIANCES AND INSTALL SHUTOFF VALVE, DIRT LEG, AND UNION AT EACH APPLIANCE.

3.2 JOINT CONSTRUCTION

- REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS. BEVEL PLAIN ENDS OF STEEL PIPE.
- REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPES, TUBES, AND FITTINGS BEFORE ASSEMBLY.
- THREADED JOINTS: THREAD PIPE WITH TAPERED PIPE THREADS ACCORDING TO ASME B1.20.1. CUT THREADS FULL AND CLEAN USING SHARP DIES. REAM THREADED PIPE ENDS TO REMOVE BURRS AND RESTORE FULL ID. JOINT PIPE FITTINGS AND VALVES AS FOLLOWS:
 - APPLY APPROPRIATE TAPE OR THREAD COMPOUND TO EXTERNAL PIPE THREADS.
 - DAMAGED THREADS: DO NOT USE PIPE OR FITTINGS WITH THREADS THAT ARE CORRODED OR DAMAGED.
- DISSIMILAR-MATERIAL PIPING JOINTS: MAKE JOINTS USING ADAPTERS COMPATIBLE WITH MATERIALS OF BOTH PIPING SYSTEMS.

3.3 HANGERS AND SUPPORT INSTALLATION

- SUPPORT PIPES THROUGHOUT BUILDING, BOTH HORIZONTALLY AND VERTICAL IN ACCORDANCE WITH REQUIREMENTS HEREIN AND AS SHOWN ON THE DRAWINGS. DO NOT USE FASTENERS WHICH PENETRATE THE ROOF DECK.
- PROVIDE COPPER PLATED HANGERS AND SUPPORTS FOR UNINSULATED COPPER PIPING. PROVIDE PLASTIC INSERTS FOR UNINSULATED COPPER PIPING PENETRATING METAL STUDS.
- IN AREAS WITHOUT CEILINGS, SECURE INSULATION SHIELDS TO INSULATION WITH PRESSURE SENSITIVE TAPE AT EACH END OF SHIELD. INSTALL HANGERS TO PROVIDE MINIMUM

PLUMBING SPECIFICATIONS:

1/2" CLEAR SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK.

E. PLACE A HANGER WITHIN ONE FOOT OF EACH HORIZONTAL ELBOW.

F. SUPPORT VERTICAL PIPE RUNS AT ROOF, AT FLOOR, AND AT MAXIMUM 15-FOOT INTERVALS.

G. SPACE SUPPORTS NOT MORE THAN FIVE FEET APART AT VALVES, STRAINERS OR PIPING ACCESSORIES LARGER THAN 2"

H. INSTALL LATERAL BRACING WITH PIPE HANGERS AND SUPPORTS TO PREVENT SWAYING.

I. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL AND SEISMIC MOVEMENT OF PIPING SYSTEMS, TO PERMIT FREEDOM OF MOVEMENT BETWEEN PIPE ANCHORS, AND TO FACILITATE ACTION OF EXPANSION JOINTS, EXPANSION LOOPS, EXPANSION BENDS, AND SIMILAR UNITS.

J. ADJUSTING

1. HANGER ADJUSTMENTS: ADJUST HANGERS TO DISTRIBUTE LOADS EQUALLY ON ATTACHMENTS AND TO ACHIEVE INDICATED SLOPE OF PIPE.

2. LOAD DISTRIBUTION: ADJUST HANGERS AND SUPPORTS SO THAT PIPING LIVE AND DEAD LOADS AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT.

3. PIPE SLOPES: ADJUST HANGERS AND SUPPORTS TO PROVIDE INDICATED PIPE SLOPES AND TO NOT EXCEED MAXIMUM PIPE DEFLECTIONS ALLOWED BY ASME B31.9 FOR BUILDING SERVICES PIPING.

4. TRIM EXCESS LENGTH OF CONTINUOUS - THREAD HANGER AND SUPPORT RODS TO 1-1/2".

3.4 PIPE INSULATION INSTALLATION

A. INSULATE FITTINGS AND VALVES WITH PREFORMED INSULATION FITTINGS WITH PVC JACKET.

3.5 VALVE AND SPECIALTIES INSTALLATION

A. PROVIDE DEEP SEAL P-TRAPS FOR FLOOR DRAINS AND MOP BASINS.

B. FOR CLEANOUTS LOCATED IN CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS OF TYPES INDICATED, WITH FRAME AND COVER FLUSH WITH FINISHED WALL.

C. PROTECT DRAINS DURING CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT OR DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC OR CONSTRUCTION WORK.

GENERAL NOTES:

A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

B. CONTRACT DOCUMENT DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.

C. INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

D. PROVIDE VIBRATION ISOLATION FOR ALL PLUMBING EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

E. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT (EXCEPT AT BASE ELBOW SUPPORTS AND ANCHOR POINTS) THROUGHOUT MECHANICAL EQUIPMENT ROOMS. DO THE SAME FOR SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILER OR PRESSURE REDUCING VALVES.

F. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS OF STEAM MAINS WITHIN 50 FEET OF BOILERS AND PRESSURE REDUCING VALVES.

G. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES UNLESS OTHERWISE INDICATED.

H. COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

I. ALL TESTS SHALL BE COMPLETED BEFORE ANY PLUMBING EQUIPMENT OR PIPING INSULATION IS APPLIED.

J. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.

GENERAL NOTES (CONT.):

K. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.

L. REINFORCEMENT, DETAILING, AND PLACEMENT OF CONCRETE SHALL CONFORM TO ASTM 315 AND ACI 318. CONCRETE SHALL CONFORM TO ASTM C94. CONCRETE WORK SHALL CONFORM TO ACI 318, PART ENTITLED "CONSTRUCTION REQUIREMENTS." COMPRESSIVE STRENGTH IN 28 DAYS SHALL BE 3,000 PSI. TOTAL AIR CONTENT OF EXTERIOR CONCRETE SHALL BE BETWEEN 5 AND 7 PERCENT BY VOLUME. SLUMP SHALL BE BETWEEN 3 AND 4 INCHES. CONCRETE SHALL BE CURED FOR 7 DAYS AFTER PLACEMENT.

M. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.

N. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.

O. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH PIPING, COORDINATE PIPING LAYOUT WITH BEAM OPENING SIZE AND OPENING LOCATIONS. COORDINATION SHALL BE DONE PRIOR TO CUTTING OF PIPING, OR FABRICATION OF BEAMS.

P. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

Q. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE CONCEALED PLUMBING EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.

R. ALL EQUIPMENT, PIPING, ETC., SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.

S. ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMP MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.

T. PLUMBING EQUIPMENT AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.

U. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

V. ALL OPENINGS IN FIRE WALLS DUE TO PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.

W. REFER TO TYPICAL DETAILS FOR PIPING AND EQUIPMENT INSTALLATION.

PIPING NOTES:

A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

B. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING.

C. MAINTAIN A MINIMUM OF 36" OF GROUND COVER OVER ALL UNDERGROUND HVAC PIPING.

D. UNLESS OTHERWISE NOTED, ALL CHILLED WATER AND HEATING WATER PIPING SHALL BE 3/4 INCH SIZE.

E. PROVIDE AN AIR VENT AT THE HIGH POINT OF EACH DROP IN THE HEATING WATER, CHILLED WATER, AND OTHER CLOSED WATER PIPING SYSTEMS. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.

F. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH SPACE FOR INSULATION IF REQUIRED.

G. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.

H. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.

PIPING NOTES (CONT.):

I. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).

J. PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL. CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.

K. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.

L. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.

M. PITCH STEAM PIPING DOWNWARD IN THE DIRECTION OF FLOW 1/4 INCH IN 10 FEET (1 INCH IN 40 FEET) MINIMUM. PITCH ALL STEAM RETURN LINES DOWNWARD IN THE DIRECTION OF CONDENSATE FLOW 1/2 INCH PER 10 FEET (1 INCH IN 20 FEET) MINIMUM. WHERE LENGTH OF BRANCH LINES ARE LESS THAN 8 FEET, PITCH BRANCH LINES TOWARD MAINS 1/2 INCH PER FOOT MINIMUM.

N. PITCH UP ALL STEAM AND CONDENSATE RUNOUTS TO RISERS AND EQUIPMENT 1/2 INCH PER FOOT. WHERE THIS PITCH CANNOT BE OBTAINED, RUNOUTS OVER 8 FEET IN LENGTH SHALL BE ONE SIZE LARGER THAN NOTED.

O. TAP ALL BRANCH LINES FROM TOP OF STEAM MAINS (45 DEGREES PREFERRED, 90 DEGREES ACCEPTABLE).

P. PROVIDE AN END OF MAIN DRIP AT EACH RISE IN THE STEAM MAIN. PROVIDE CONDENSATE DRIPS AT THE BOTTOM OF ALL STEAM RISERS, DOWNFED RUNOUTS TO EQUIPMENT, RADIATORS, ETC., AT END OF MAINS AND LOW POINTS, AND AHEAD OF ALL PRESSURE REGULATORS, CONTROL VALVES, ISOLATION VALVES, AND EXPANSION JOINTS.

Q. ON STRAIGHT STEAM PIPING RUNS WITH NO NATURAL DRAINAGE POINTS, INSTALL DRIP LEGS AT INTERVALS NOT EXCEEDING 200 FEET WHERE PIPE IS PITCHED DOWNWARD IN THE DIRECTION OF STEAM FLOW AND A MAXIMUM OF 100 FEET WHERE THE PIPE IS PITCHED UP SO THAT CONDENSATE FLOW IS OPPOSITE OF STEAM FLOW.

R. STEAM TRAPS SHALL BE MINIMUM 3/4" SIZE.

S. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.

T. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.

U. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.

V. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

W. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS, CHILLERS, COOLING TOWERS, AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.

X. SLOPE REFRIGERANT PIPING ONE PERCENT IN THE DIRECTION OF OIL RETURN. LIQUID LINES MAY BE INSTALLED LEVEL.

Y. INSTALL HORIZONTAL REFRIGERANT HOT GAS DISCHARGE PIPING WITH 1/2" PER 10 FEET DOWNWARD SLOPE AWAY FROM THE COMPRESSOR.

Z. INSTALL HORIZONTAL REFRIGERANT SUCTION LINES WITH 1/2" PER 10 FEET DOWNWARD SLOPE TO THE COMPRESSOR, WITH NO LONG TRAPS OR DEAD ENDS WHICH MAY CAUSE OIL TO SEPARATE FROM THE SUCTION GAS AND RETURN TO THE COMPRESSOR IN DAMAGING SLUGS.

AA. PROVIDE LINE SIZE LIQUID INDICATORS IN MAIN LIQUID LINE LEAVING CONDENSER OR RECEIVER. INSTALL MOISTURE-LIQUID INDICATORS IN LIQUID LINES BETWEEN FILTER DRYERS AND THERMOSTATIC EXPANSION VALVES AND IN LIQUID LINE TO RECEIVER.

AB. PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH AUTOMATIC VALVE. PROVIDE SHUTOFF VALVE ON EACH SIDE OF STRAINER.

AC. PROVIDE PERMANENT FILTER DRYERS IN LOW TEMPERATURE SYSTEMS AND SYSTEMS USING HERMETIC COMPRESSORS.

AD. PROVIDE REPLACEABLE CARTRIDGE FILTER DRYERS WITH THREE VALVE BYPASS ASSEMBLY FOR SOLENOID VALVES, ADJACENT TO RECEIVERS.

AE. PROVIDE REFRIGERANT CHARGING VALVE CONNECTIONS IN LIQUID LINE BETWEEN RECEIVER SHUTOFF VALVE AND EXPANSION VALVE.

PLUMBING NOTES:

A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

B. RUN ALL SOIL WASTE AND VENT PIPING WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.

C. ELEVATIONS AS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF ALL PRESSURE PIPING AND TO THE INVERT OF ALL GRAVITY PIPING.

D. ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.

E. MAINTAIN A MINIMUM OF 36" OF GROUND COVER OVER ALL UNDERGROUND WATER MAINS AND A MINIMUM OF 30" OF GROUND COVER OVER ALL UNDERGROUND SEWERS AND DRAINS.

F. PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.

G. UNLESS OTHERWISE NOTED, ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE 1/2 INCH SIZE.

H. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.

I. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.

J. WHERE DOMESTIC COLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.

K. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.

L. ALL PIPING SHALL CLEAR DOORS AND WINDOWS.

M. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.

N. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.

O. ALL VALVES SHALL BE ADJUSTED FOR SMOOTH AND EASY OPERATION.

P. ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.

Q. PROVIDE CHAINWHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FLOOR LEVEL. CHAIN SHALL EXTEND TO 7'-0" ABOVE FLOOR LEVEL.

R. PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.

S. UNLESS OTHERWISE NOTED, DRAINS SHALL BE INSTALLED AT THE LOW POINT OF ROOFS, AREAWAYS, FLOORS, ETC.

T. PROVIDE CLEANOUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 50 FEET IN HORIZONTAL RUNS AND ELSEWHERE AS INDICATED.

U. ALL CLEANOUTS SHALL BE FULL SIZE OF PIPE FOR PIPE SIZES 6 INCHES AND SMALLER AND SHALL BE 6 INCHES FOR PIPE SIZES LARGER THAN 6 INCHES.

V. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).

W. ALL VALVES SHALL BE INSTALLED SO THAT VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED.

X. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

Y. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.

APPLICABLE CODES:

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE

GENERAL DEMOLITION NOTES:

A. WORK SHALL BE PHASED IN SUCH A WAY THAT EXISTING SERVICES SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. WORK SHALL BE RESTRICTED TO THE AREAS BEING DISRUPTED BY THE RENOVATION.

B. WORK MAY BE REQUIRED BEYOND AREA INDICATED IN ORDER TO REMOVE ENTIRETY OF SYSTEMS BEING DEMOLISHED.

C. EXISTING CONDITIONS WERE TAKEN FROM DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.

D. COORDINATE DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

E. GRAY CONTINUOUS LINE EQUIPMENT/FIXTURES TO REMAIN UNLESS OTHERWISE NOTED. DASHED EQUIPMENT TO BE REMOVED UNLESS OTHERWISE NOTED.

F. SURFACES THAT WILL BE EXPOSED IN PROPOSED SCOPE TO BE REPAIRED AND PATCHED ACCORDING TO PROPOSED PLANS.

PLUMBING INSULATION NOTES:

DOMESTIC COLD WATER

ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION, 1/2" THICK, WITH VAPOR BARRIER JACKET.

DOMESTIC HOT WATER

ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION, 1" THICK, WITH GLASS CLOTH JACKET.

AT CONTRACTOR'S OPTION FIBERGLASS SNAP ON INSULATION WITH FOAM VAPOR BARRIER MAY BE SUBSTITUTED FOR ABOVE.

DOMESTIC HOT AND COLD WATER PIPING IN PIPE CHASES

SHALL BE INSULATED WITH 1/2" THICK, 3-1/2" LB. DENSITY FIBERGLASS WITH ALL PURPOSE VAPOR BARRIER JACKET.

EXPOSED SANITARY WASTE PIPING

SHALL BE INSULATED WITH 1-1/2" THICK, GLASS MINERAL WOOL, WITH ALL PURPOSE VAPOR BARRIER JACKET.

VENT PIPING IN PLENUM RETURN

ALL PCV PIPING WITHIN PLENUM RETURN SPACE SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS AND FSK JACKET.

NOTE: NOT ALL NOTES ON THIS SHEET MAY APPLY TO THIS PROJECT. REFER TO PROJECT PLUMBING FLOOR PLANS FOR SCOPE APPLICABLE TO THIS PROJECT.

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BN1580 JOJO'S SHAKE BAR

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SCOTTSDALE, AZ

02.09.2022 FLOOR PLAN

PLUMBING
SPECIFICATIONS AND
NOTES

M.O.1
BN1580

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PIPE MATERIALS:	
CONDITION/LOCATION	MATERIAL TYPE
ABOVE GROUND WATER	TYPE "L" COPPER
BELOW GROUND WATER	TYPE "K" COPPER
WASTE (UNDER 2")	TYPE "M" COPPER
WASTE (ABOVE 2")	CAST IRON
WASTE	SCHEDULE 40 PVC PLASTIC
VENT	SCHEDULE 40 PVC PLASTIC
VENT (UNDER 2")	TYPE "M" COPPER
VENT (ABOVE 2")	CAST IRON
GAS PIPING	SCHEDULE 40 WROUGHT IRON
CONDENSATE PIPING	SCHEDULE 40 WROUGHT IRON

SLOPE OF HORIZONTAL DRAINAGE PIPE:	
SIZE (INCHES)	MINIMUM SLOPE (INCHES PER FOOT)
2-1/2 OR LESS	1/4
3 TO 6	1/8
8 OR LARGER	1/16

NOTE: TABLE INFORMATION FROM FBC/P TABLE 704.1

MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT:		
SIZE OF TRAP (INCHES)	SLOPE (INCHES PER FOOT)	DISTANCE FROM TRAP (FEET)
1-1/4	1/4	5
1-1/2	1/4	6
2	1/4	8
3	1/8	12
4	1/8	16

NOTE: TABLE INFORMATION FROM FBC/P TABLE 909.1

MINIMUM SIZES OF FIXTURE WATER SUPPLY PIPES:	
FIXTURE (1)	MIN. PIPE SIZE (INCH)
DISHWASHER, DOMESTIC (2)	1/2
DRINKING FOUNTAIN	3/8
HOSE BIBBS	1/2
KITCHEN SINK (2)	1/2
LAVATORY	3/8
SINKS, SERVICE	1/2
URINAL, FLUSH TANK	1/2
URINAL, FLUSHOMETER VALVE	3/4
WALL HYDRANT	1/2
WATER CLOSET, FLUSH TANK	3/8
WATER CLOSET, FLUSHOMETER TANK	3/8
WATER CLOSET, FLUSHOMETER VALVE	1
WATER CLOSET, ONE PIECE (2)	1/2

NOTES:
1. TABLE INFORMATION GATHERED FROM 2017 FLORIDA BUILDING CODE - PLUMBING TABLE 604.5 (6TH EDITION).
2. WHERE THE DEVELOPED LENGTH OF THE DISTRIBUTION LINE IS 50 FEET OR LESS, AND THE AVAILABLE PRESSURE AT THE METER IS 35 PSI OR GREATER, THE MINIMUM SIZE OF AN INDIVIDUAL DISTRIBUTION LINE SUPPLIED FROM A MANIFOLD AND INSTALLED AS PART OF A PARALLEL WATER DISTRIBUTION SYSTEM SHALL BE ONE NOMINAL TUBE SIZE SMALLER THAN THE SIZES INDICATED.

PIPING VOLUME AND MAXIMUM PIPING LENGTHS:			
PIPE SIZE (INCHES)	VOLUME (OZ/FT)	MAX. PIPING LENGTH (FEET)	
		PUBLIC LAVATORY	OTHER FIXTURES
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2.0	1	32
3/4	3.0	0.5	21

NOTE: TABLE INFORMATION FROM FBC/EC TABLE C404.5.1

PLUMBING LINE LEGEND:	
LINE NOTE: ALL LINE TYPES SHOWN MAY NOT APPEAR IN ALL DRAWINGS. REFER TO PLANS FOR PLUMBING SCOPE.	
	SANITARY SEWER PIPING
	GREASE WATER PIPING
	SANITARY VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RECIRCULATION PIPING
	SOFT WATER PIPING
	FILTERED WATER PIPING
	REVERSE OSMOSIS WATER PIPING
	REVERSE OSMOSIS WATER PIPING SCALE CONTROL
	REVERSE OSMOSIS WATER PIPING NO SCALE CONTROL
	STORM DRAIN PIPING
	OVERFLOW DRAIN PIPING
	CONDENSATE DRAIN PIPING

PLUMBING SYMBOL LEGEND:	
SYMBOL NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS SHOWN ARE SCHEMATIC AND MAY NOT BE TO SCALE.	
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	PIPE RISE
	PIPE DROP
	PIPE BOTTOM T
	PIPE TOP T
	PIPE STRAIGHT T
	PIPE END CAP
	BACK FLOW PREVENTER
	EQUIPMENT TAG
	FIXTURE TAG
	DISCONNECTION POINT
	CONNECTION POINT
	PIPE BREAK
	UNION
	GLOBE VALVE
	CHECK VALVE
	GATE VALVE
	BALL VALVE
	STRAINER
	PRESSURE REDUCING VALVE
	WATER METER
	GAS METER
	WATER FILTER

LINE TYPE LEGEND:	
NOTE: REFER TO DEMOLITION PLANS FOR NOTES AND REQUIREMENTS.	
	DASHED LINES INDICATE EXISTING TO BE REMOVED.
	LIGHT DASHED LINES INDICATE EXISTING TO BE REMOVED BUT ARE NOT PART OF DISCIPLINE.
	LIGHT LINES INDICATE EXISTING TO REMAIN.
	DARK LINES INDICATE NEW/RELOCATED OR EXISTING TO BE RELOCATED.

HATCH LEGEND:	
	NOT IN SCOPE OF WORK FOR INDICATED DISCIPLINE
	NOT IN SCOPE OF CONTRACT
	AREA IN SCOPE OF WORK

PLUMBING PIPING SCHEDULE:								
SYSTEM	LOCATION	SIZE	PIPE MATERIAL	JOINTS	FITTINGS	HORIZONTAL HANGER SPACING (FT)	VERTICAL SPACING (FT)	NOTES
DOMESTIC COLD AND HOT WATER	ABOVE GRADE	1-1/4" AND SMALLER	TYPE L HARD COPPER	SOLDER	WROUGHT COPPER	6	10	-
		1-1/2" AND LARGER				10	10	-
		1" AND SMALLER	SCH 40 CPVC	SOLVENT WELD	BUTT FUSION WELDED	3	10	4
SANITARY SEWER	ALL	1-1/4" AND LARGER	SCHD 40 CPVC	SOLVENT WELD	BUTT FUSION WELDED	4	10	4
		1-1/4" AND SMALLER	HUBLESS CAST IRON	HUBLESS	HUBLESS CAST IRON	5	15	1, 2
		1-1/2" AND LARGER	DWV HARD COPPER	SOLDER	CAST BRONZE OR WROUGHT COPPER	10	10	-
		1-1/4"	PVC SCHD 40 DWV	SOLVENT WELD	DWV SOCKET	4	10	3, 4
NATURAL GAS	ABOVE GRADE	1/2"	SCHD 40 BLACK STEEL	THREADED OR WELDED	MALLEABLE IRON	6	15	-
		3/4" THRU 1-1/2"				8	15	-
		2" AND LARGER	WELDED	BUTT WELDED	10	15	-	

GENERAL NOTES:
A. ALL PRODUCTS USED IN DOMESTIC COLD AND HOT WATER PIPING SYSTEMS MUST BE NSF/ANSI 61 CERTIFIED AND BE LEAD FREE. LEAD FREE PRODUCTS MUST BE LISTED AND LABELED BY A THIRD PARTY AS LEAD FREE SUCH THAT THE WETTED SURFACE MATERIALS HAVE NO MORE THAN 0.25% LEAD CONTENT.
B. INSULATION TO BE FIBERGLASS, POLYMER FOAM, OR ELASTOMERIC PREFORMED PIPE INSULATION WITH SELF SEALING ADHESIVE LAP.
C. DOMESTIC COLD WATER, STORM PIPING, AND CONDENSATE PIPING FIBERGLASS INSULATION MUST HAVE VAPOR RETARDED JACKET, SEAL JOINTS WITH 2" WIDE PRESSURE SENSITIVE VAPOR RETARDED TAPE.
D. INSULATION MUST BE INSTALLED ACCORDING TO MANUFACTURER'S REQUIREMENTS.
E. PIPE HANGING AND SUPPORT COMPONENTS AND METHODS TO BE IN ACCORDANCE WITH ANS/MSS SP-58-2009.
F. FOR INSULATED PIPING PROVIDE PIPE HANGER INSULATION SHIELD ACCORDING TO HANGER MANUFACTURER.
G. FOR INSULATED PIPING PROVIDE PIPE HANGER INSULATION SHIELD ACCORDING TO HANGER MANUFACTURER.
H. HANGER SPACING DOES NOT APPLY TO UNDERGROUND AND BELOW SLAB PIPING.
I. INSULATION THICKNESS ONLY APPLIES TO DOMESTIC HOT WATER FOR UNDERGROUND AND BELOW SLAB PIPING.
J. HUBLESS CAST IRON JOINTS MUST BE MADE WITH ASTM C1540 HEAVY DUTY SHIELDED COUPLINGS WITH CENTER STOPS.
K. PVC PIPE MUST BE SOLID WALL, FOAM CORE IS NOT PERMITTED.
L. DO NOT USE PVC PIPING IN RETURN AIR PLENUM.
M. DUCTILE IRON AND CAST IRON PIPING MUST HAVE POLYETHYLENE ENCASEMENT WHEN INSTALLED IN CORROSIVE SOILS, VERIFY IN FIELD.

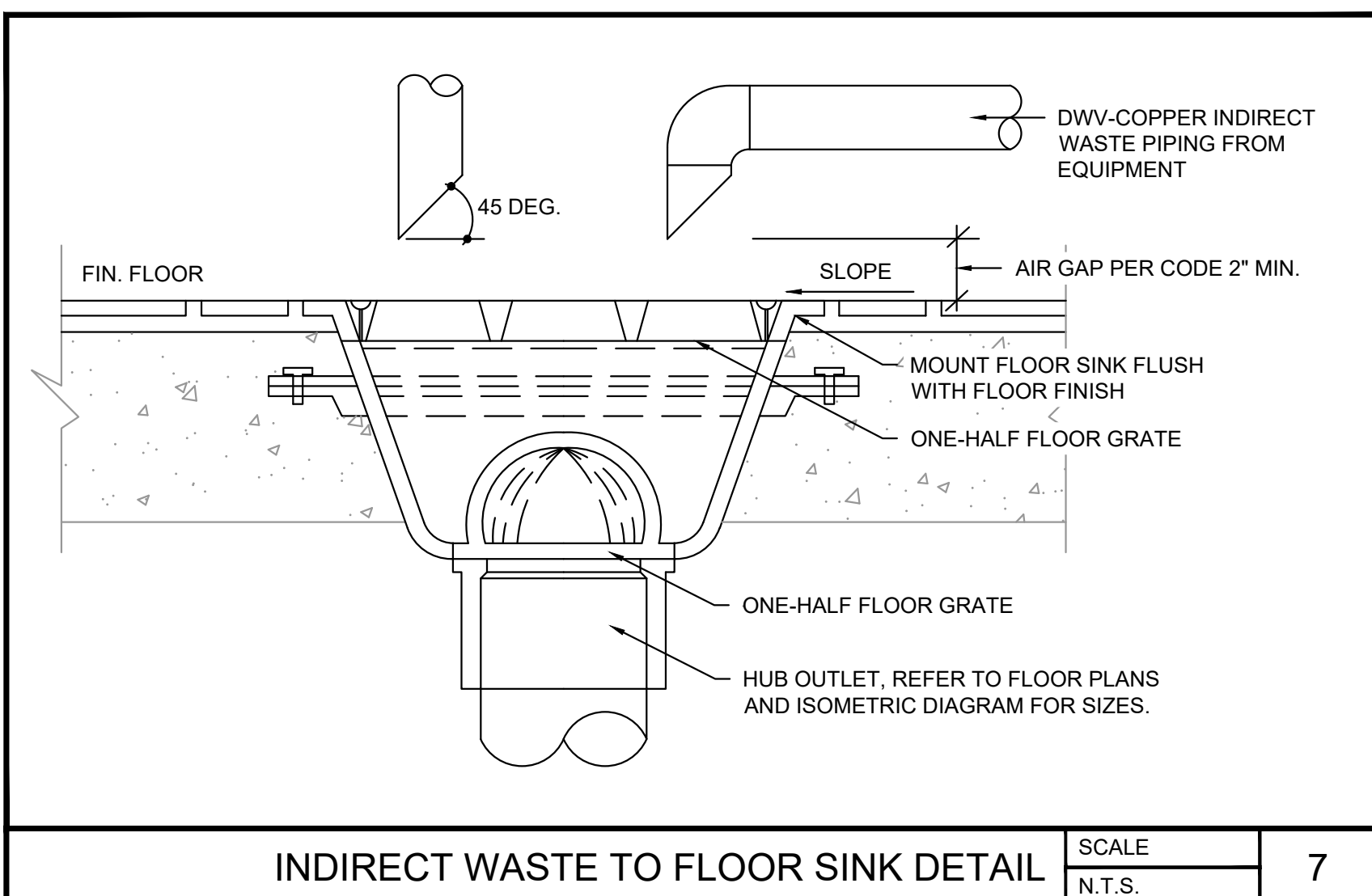
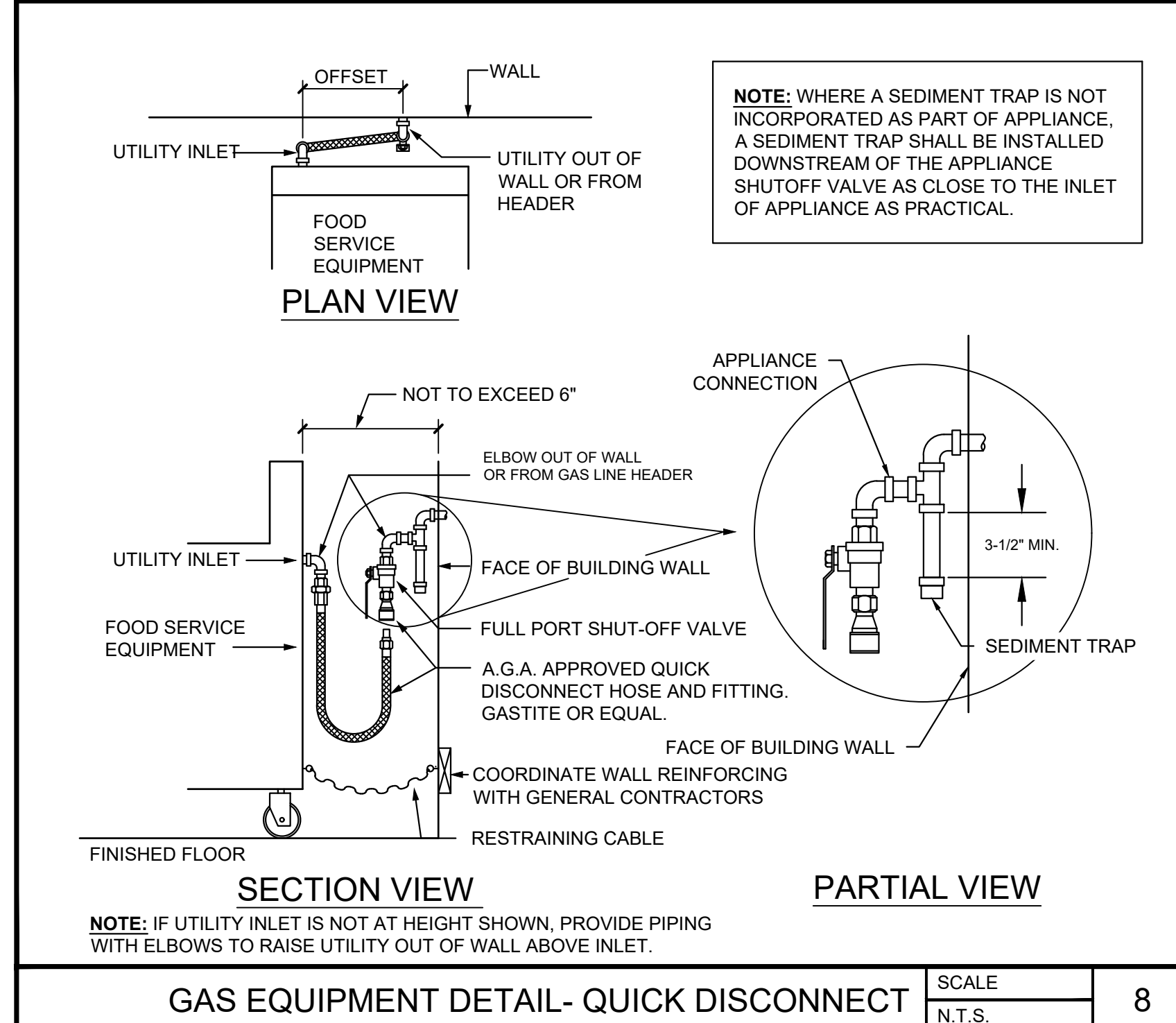
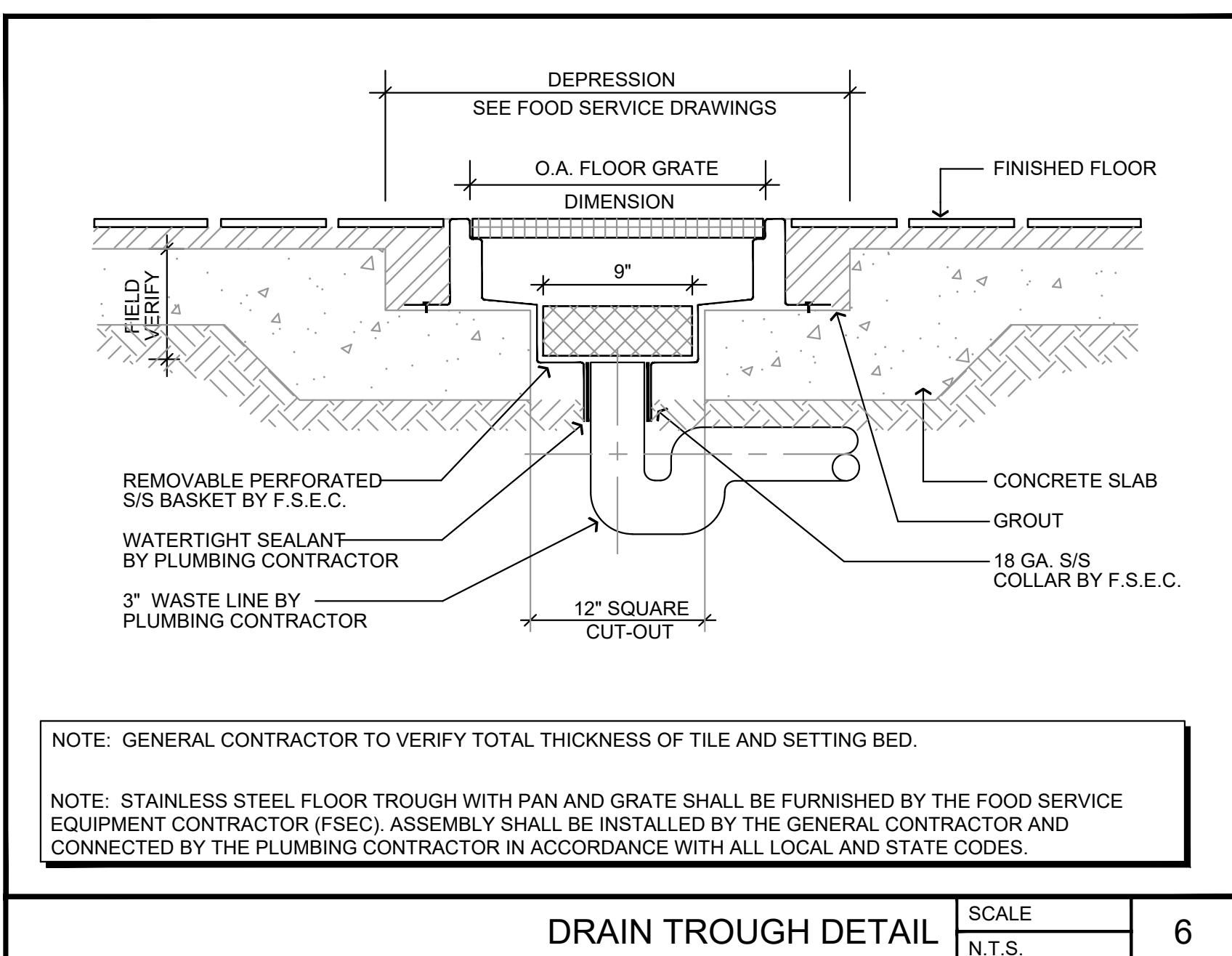
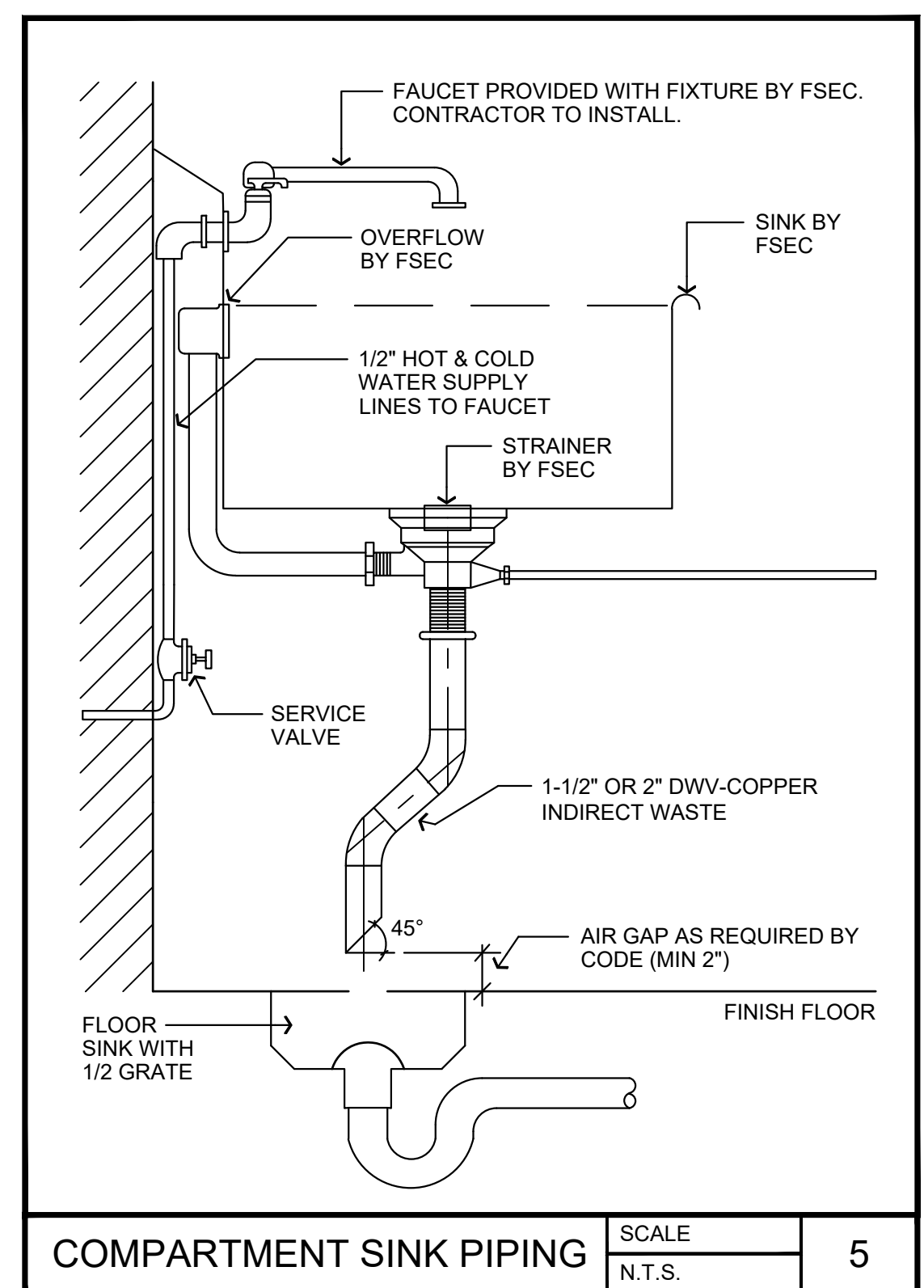
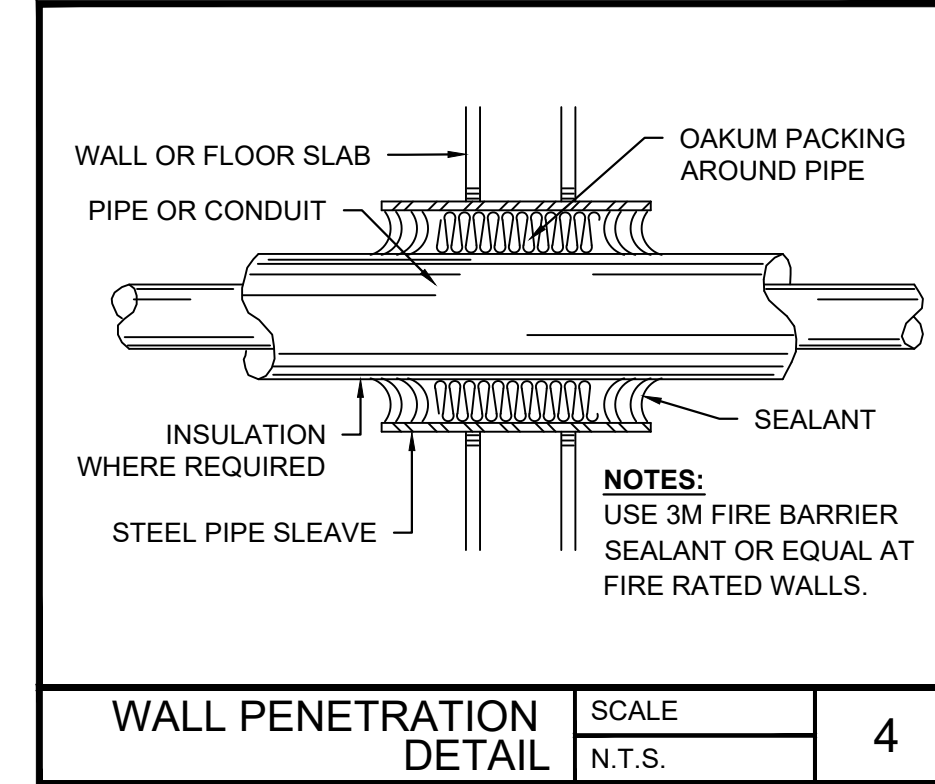
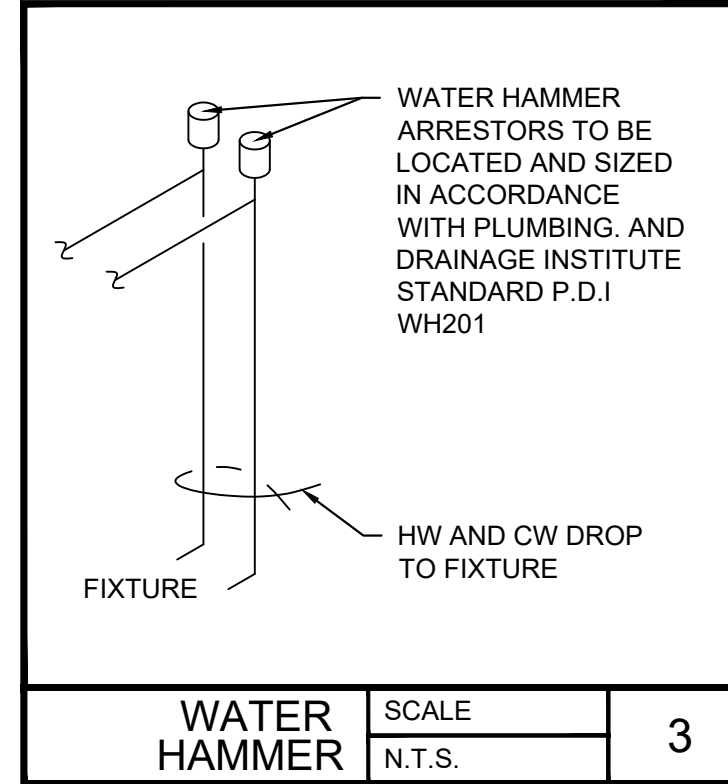
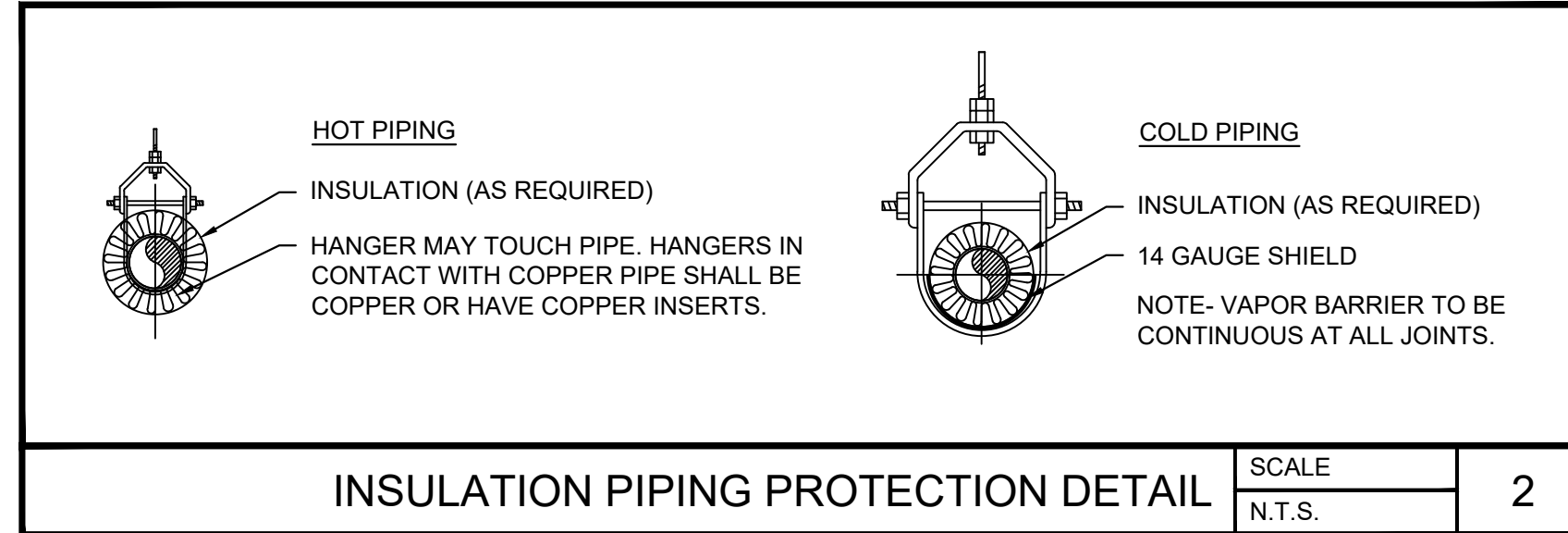
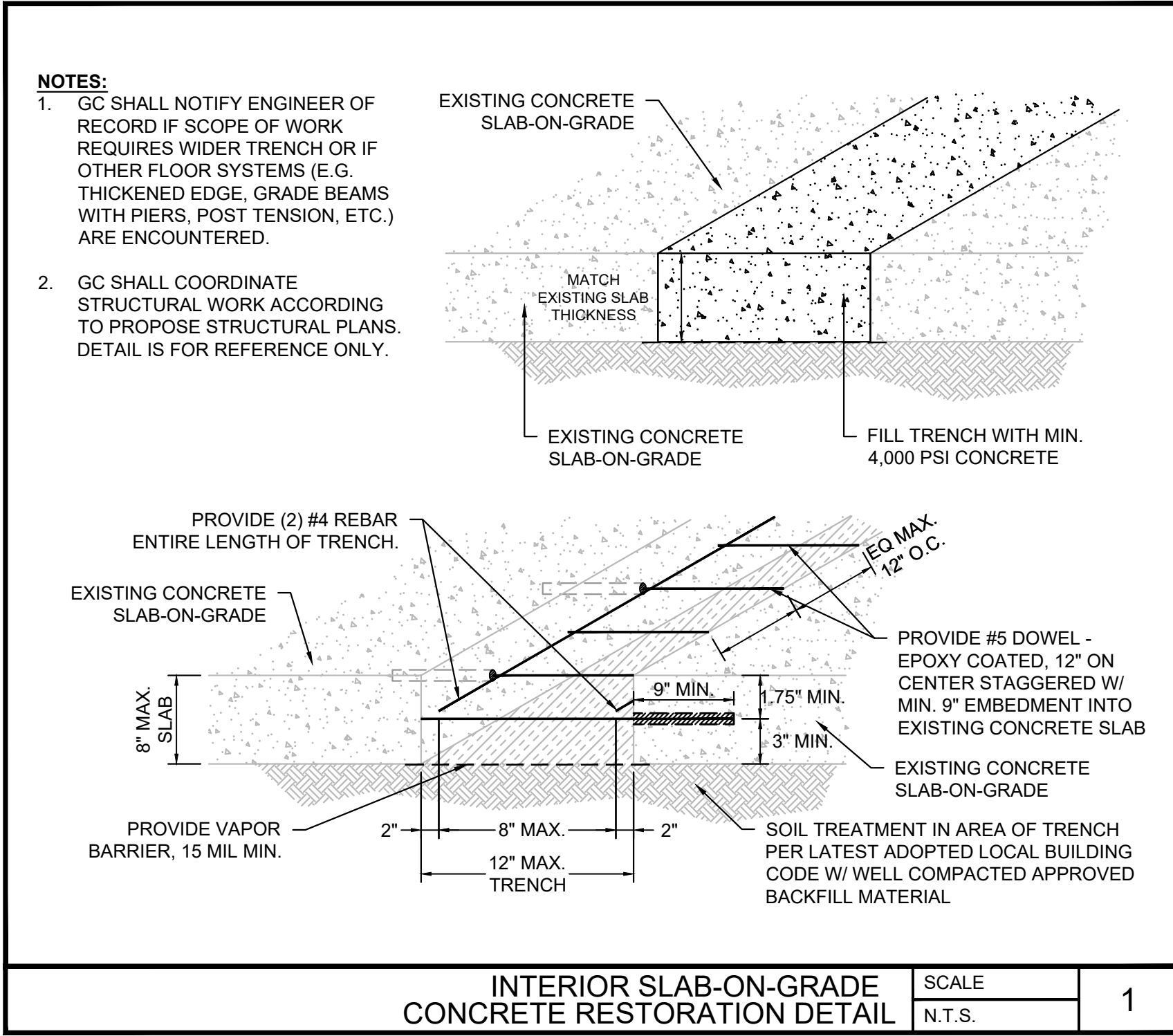
NOTES:
1. AT LEAST 1 ADDITIONAL HANGER IS REQUIRED AT EACH JOINT.
2. 10' HANGER SPACING IS PERMITTED ONLY IF 10' LENGTHS OF PIPE ARE USED.
3. PIPE MATERIAL MAY BE USED WHERE PERMITTED BY AUTHORITY HAVING JURISDICTION.
4. FOR SIZES 2 INCHES AND SMALLER, A GUIDE SHALL BE INSTALLED MIDWAY BETWEEN REQUIRED VERTICAL SUPPORTS. SUCH GUIDES SHALL PREVENT PIPE MOVEMENT IN A DIRECTION PERPENDICULAR TO THE AXIS OF THE PIPE.

PLUMBING FIXTURE SCHEDULE:						
PLAN MARK	DESCRIPTION	TRIM/ACCESSORIES	CONNECTIONS			
			CW	HW	W	V
HS-1	HAND SINK	PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE, SET OUTLET TEMPERATURE TO 105°F	1/2"	1/2"	2"	1-1/2"
HS-2	HAND SINK	PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE, SET OUTLET TEMPERATURE TO 105°F	1/2"	1/2"	2"	1-1/2"
3CS	3 COMP SINK	PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE, SET OUTLET TEMPERATURE TO 105°F	1/2"	1/2"	3"	1-1/2"
FS	FLOOR SINK		-	-	3"	1-1/2"

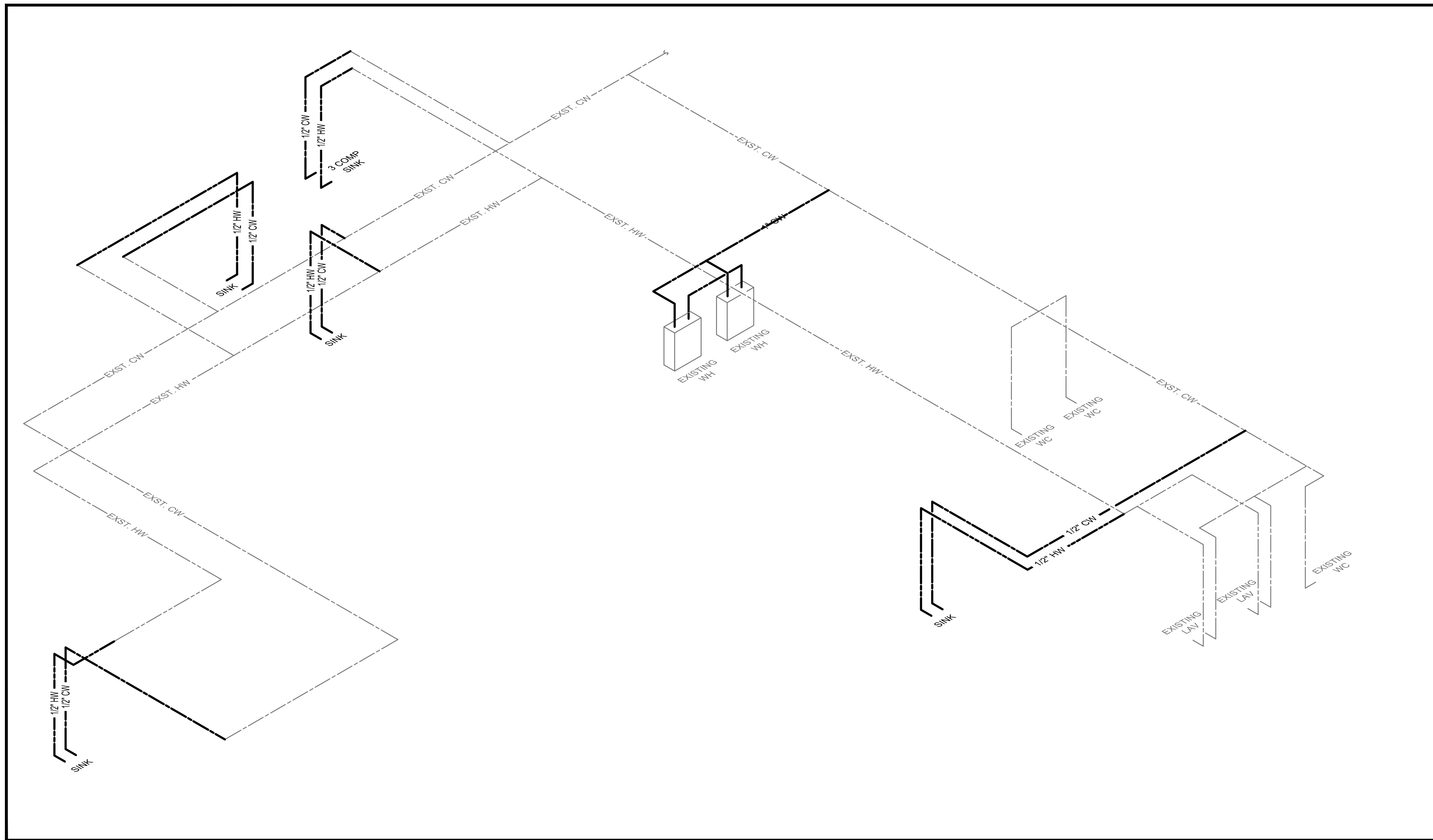
NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND EXACT MOUNTING POSITION OF FIXTURES.
2. FAUCET HOLES TO MATCH FAUCET SPECIFIED.
3. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA REQUIREMENTS.
4. PROVIDE INSULATION KIT ON ALL ADA FIXTURES EXPOSED SUPPLIED AND TRAP.
5. CONFIRM EXISTING FLOOR DRAIN SANITARY SIZE PRIOR TO ORDERING.
* BASIS OF DESIGN PRODUCTS ARE INDICATED FOR REFERENCE ONLY. COMPARABLE PRODUCTS WILL BE ACCEPTED PROVIDED COMPLIANCE WITH TECHNICAL SPECIFICATION REQUIREMENTS.

MINIMUM PIPE INSULATION THICKNESS:							
FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (IN)				
	CONDUCTIVITY BTU·IN/(H·FT ² ·°F)	MEAN RATING TEMPERATURE, °F	< 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	≥ 8
> 350	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5

NOTES:
1. TABLE INFORMATION GATHERED FROM 2017 FLORIDA BUILDING CODE - ENERGY CONSERVATION TABLE C403.2.10 (6TH EDITION).
2. FOR PIPING SMALLER THAN 1 1/2 INCHES AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKNESSES BY 1 INCH SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT NOT TO A THICKNESS LESS THAN 1 INCH.

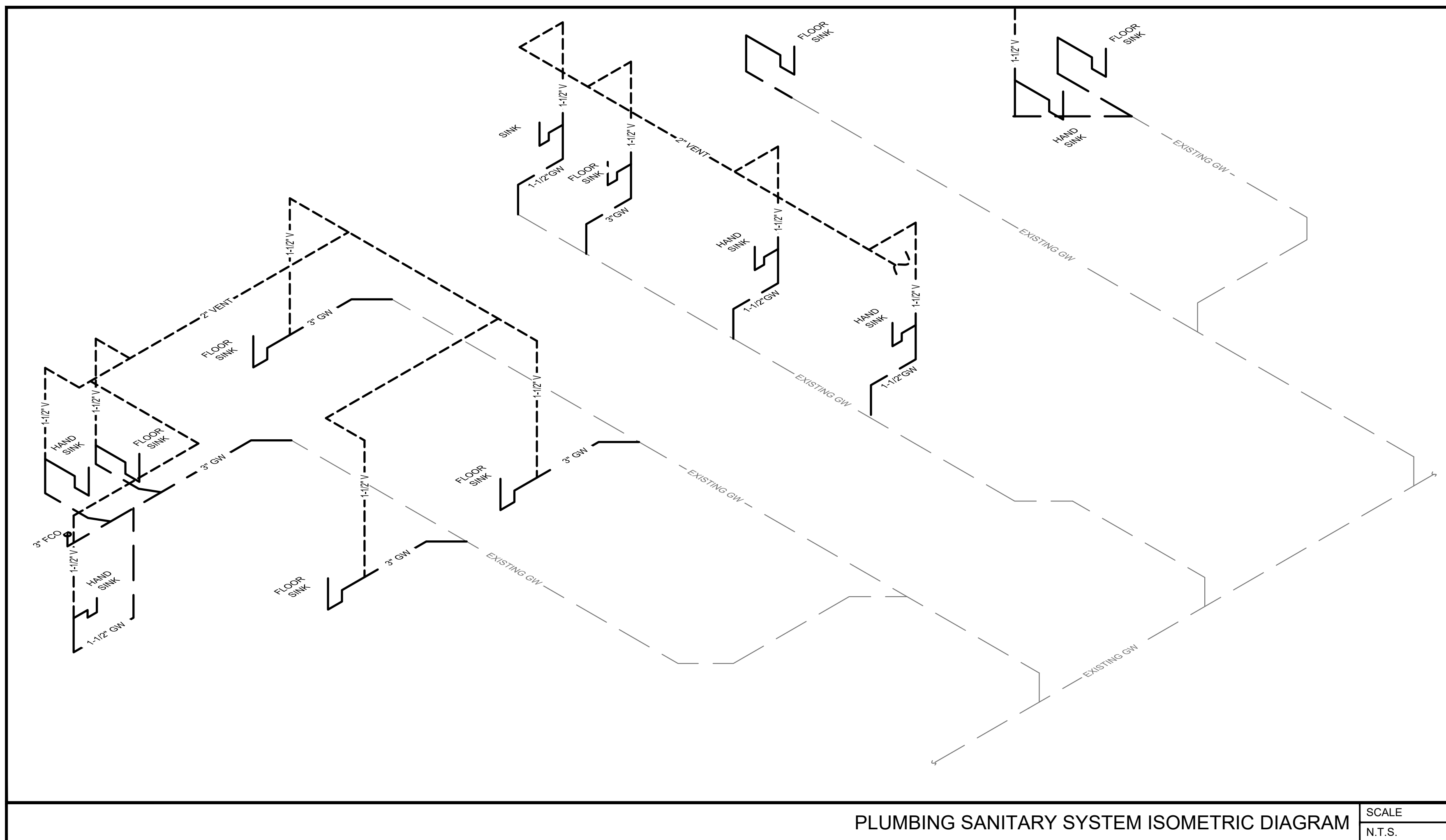


DETAILS NOTE: NOT ALL DETAILS ON THIS SHEET MAY APPLY TO THIS PROJECT. REFER TO PROJECT PLUMBING FLOOR PLANS FOR FIXTURES APPLICABLE TO THIS PROJECT.



PLUMBING DOMESTIC WATER ISOMETRIC DIAGRAM

SCALE
N.T.S.



PLUMBING SANITARY SYSTEM ISOMETRIC DIAGRAM

SCALE
N.T.S.

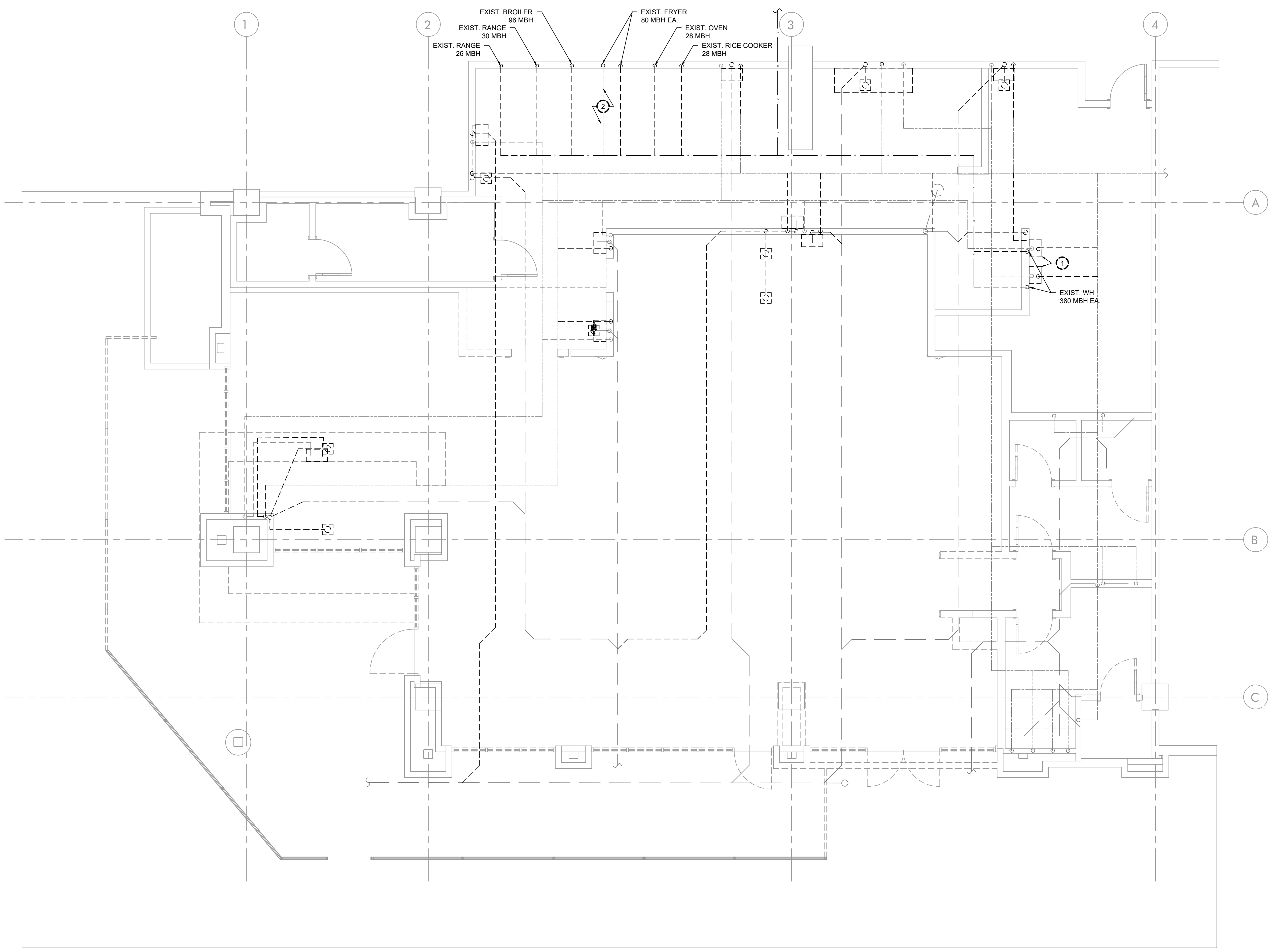
ISOMETRIC DIAGRAM NOTE:

LOCATION OF ALL EXISTING PIPING AND FIXTURES NOT SHOWN. CONTRACTOR TO FIELD-VERIFY SIZE, TYPE, AND CONDITION OF EXISTING PIPING FOR REUSE.

SCHEMATIC REPRESENTATION ONLY. REFER TO ARCHITECTURAL PLANS FOR PLUMBING FIXTURE PLANS AND ELEVATIONS.



05/19/22



PLAN SHEET NOTES:

- ① EXISTING WATER HEATERS ARE TO BE RELOCATED. REUSE EXISTING WATER SUPPLY LINES. ADJUST CONNECTIONS AS NEEDED PER NEW LOCATION.
- ② EXISTING NATURAL GAS COOKING EQUIPMENT TO BE REMOVED. REUSE EXISTING NATURAL GAS MAIN FOR NEW EQUIPMENT.

PLUMBING DEMOLITION PLAN SCALE
1/4" = 1'-0"

PLUMBING DEMOLITION PLAN

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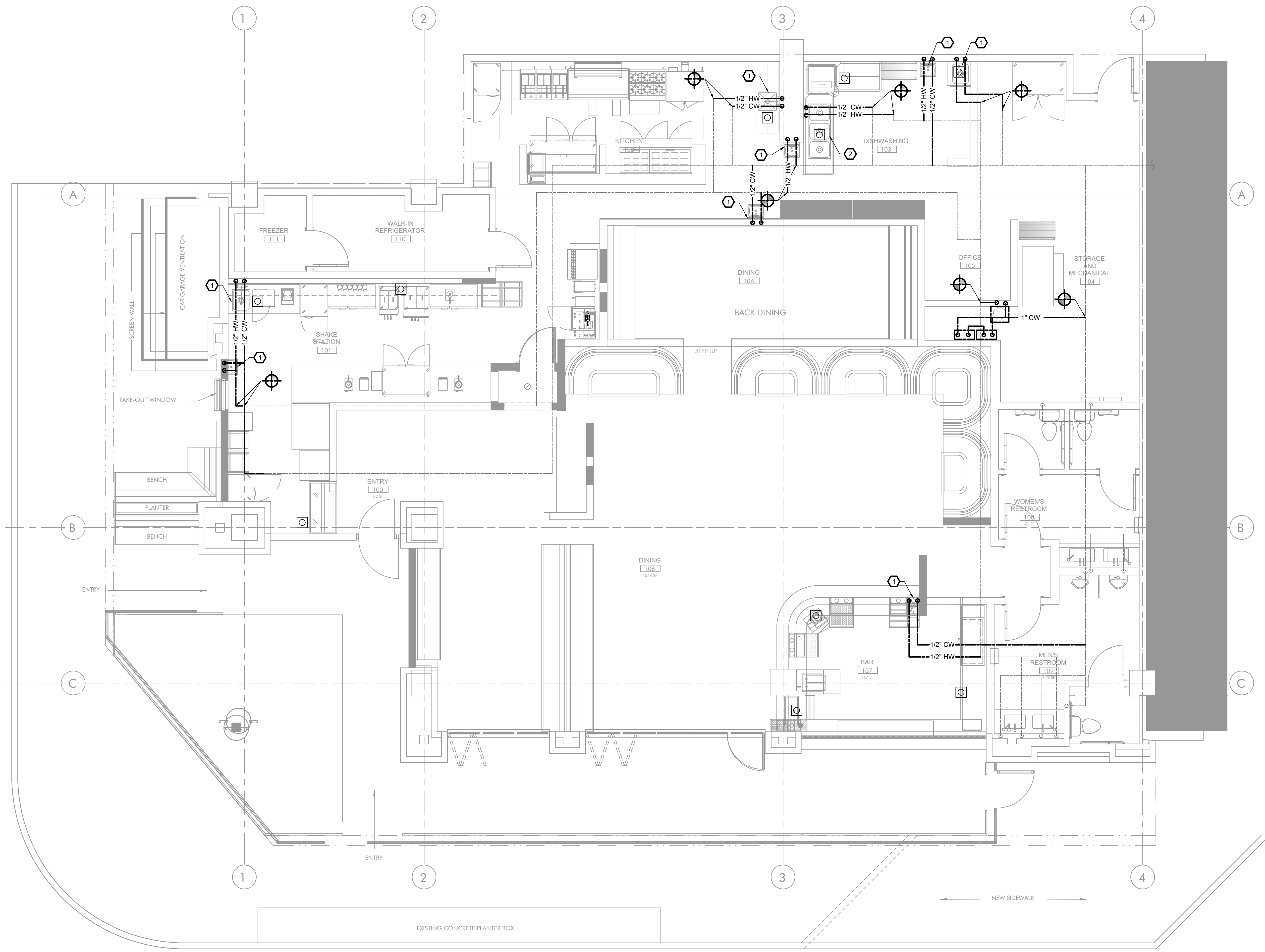


BN1580 JOJO'S SHAKE BAR

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SCOTTSDALE, AZ

02.09.2022 FLOOR PLAN

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PLAN SHEET NOTES:

- ① INSTALL NEW HAND SINK. CONNECT 1/2" COLD AND HOT WATER, 2" WASTE, AND 1-1/2" VENT LINES TO NEAREST EXISTING MAINS. REFER TO PLUMBING SCHEDULE HS FOR ADDITIONAL INFORMATION.
- ② INSTALL NEW 3 COMPARTMENT SINK. CONNECT 1/2" COLD AND HOT WATER LINES TO NEAREST EXISTING MAINS. CONNECT 3" WASTE LINE, DISCHARGE TO NEAREST FLOOR SINK WITH AIRGAP. REFER TO PLUMBING SCHEDULE 3CS FOR ADDITIONAL INFORMATION.

PLUMBING PROPOSED PLAN - DOMESTIC WATER SCALE 1/4" = 1'-0"

MIDDLETON ENGINEERING

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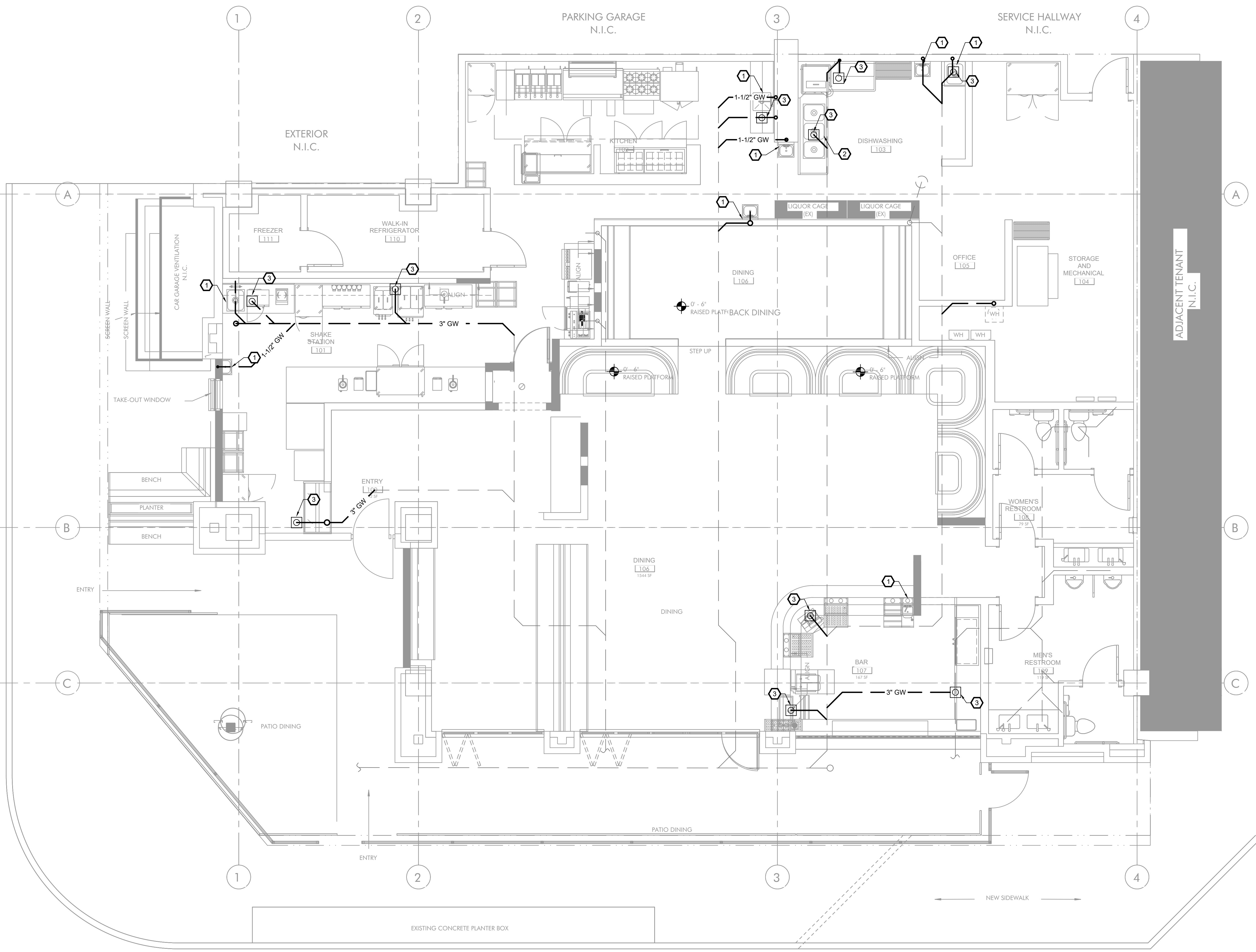
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BN1580 JOJO'S SHAKE BAR

15037 N. SCOTTSDALE ROAD SUITE #150
SCOTTSDALE, AZ

02.09.2022 FLOOR PLAN



PLAN SHEET NOTES:

- ① INSTALL NEW HAND SINK. CONNECT 1/2" COLD AND HOT WATER, 2" WASTE, AND 1-1/2" VENT LINES TO NEAREST EXISTING MAINS. REFER TO PLUMBING SCHEDULE HS FOR ADDITIONAL INFORMATION.
- ② INSTALL NEW 3 COMPARTMENT SINK. CONNECT 1/2" COLD AND HOT WATER LINES TO NEAREST EXISTING MAINS. CONNECT 3" WASTE LINE, DISCHARGE TO NEAREST FLOOR SINK WITH AIRGAP. REFER TO PLUMBING SCHEDULE 3CS FOR ADDITIONAL INFORMATION.
- ③ INSTALL NEW FLOOR SINK. CONNECT 3" WASTE AND 1-1/2" VENT LINES TO NEAREST MAINS.

PLUMBING PROPOSED PLAN - SANITARY & VENT SYSTEM
SCALE
1/4" = 1'-0"

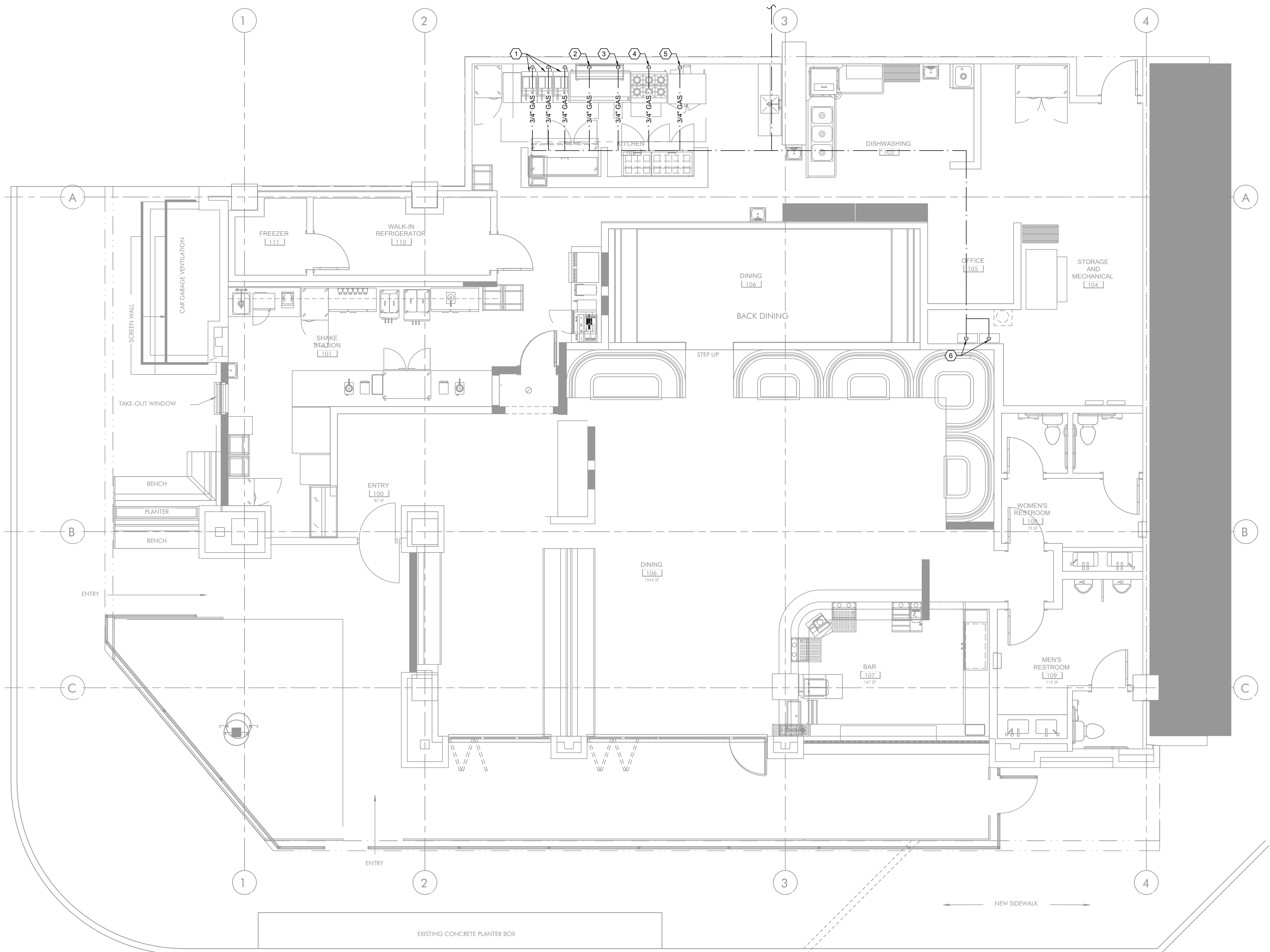
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BN1580 JOJO'S SHAKE BAR
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SCOTTSDALE, AZ
02.09.2022 FLOOR PLAN



PLAN SHEET NOTES:

- ① INSTALL NEW FRYER (120 MBH). CONNECT 3/4" NATURAL GAS LINES TO EXISTING MAIN. REFER TO FOOD SERVICE EQUIPMENT PLAN FOR ADDITIONAL INFORMATION.
- ② INSTALL NEW CHEESE MELTER (40 MBH). CONNECT 3/4" NATURAL GAS LINES TO EXISTING MAIN. REFER TO FOOD SERVICE EQUIPMENT PLAN FOR ADDITIONAL INFORMATION.
- ③ INSTALL NEW FLAT GRIDDLE (150 MBH). CONNECT 3/4" NATURAL GAS LINES TO EXISTING MAIN. REFER TO FOOD SERVICE EQUIPMENT PLAN FOR ADDITIONAL INFORMATION.
- ④ INSTALL NEW 6-BURNER RANGE (210 MBH). CONNECT 3/4" NATURAL GAS LINES TO EXISTING MAIN. REFER TO FOOD SERVICE EQUIPMENT PLAN FOR ADDITIONAL INFORMATION.
- ⑤ INSTALL NEW CONVECTION OVEN (100 MBH). CONNECT 3/4" NATURAL GAS LINES TO EXISTING MAIN. REFER TO FOOD SERVICE EQUIPMENT PLAN FOR ADDITIONAL INFORMATION.
- ⑥ INSTALL EXISTING GAS WATER HEATERS IN NEW LOCATION. CONNECT 3/4" NATURAL GAS LINES TO EXISTING MAIN.

PLUMBING PROPOSED PLAN - NATURAL GAS SCALE 1/4" = 1'-0"

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